INDEX OF SHEETS
SEE SHEETS 2 THRU 8 FOR INDEX OF SHEETS

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

ROADWAY LENGTH = 21473.19 FT 4.067 MILES
BRIDGE LENGTH = 926.48 FT 0.175 MILES
TOTAL LENGTH OF PROJECT = 4.242 MILES

FERDERAL AID PROJECT
PROJECT NO:
BEXAR COUNTY
SL 1604

LIMITS: FROM 2.0 MILES WEST OF US 281 TO REDLAND RD

FOR WORK CONSISTING OF EXPAND 4 TO 10 LANE EXPRESSWAY-INCLUDING 2 HOV-SPECIAL USE LANES; FROM 4 TO 4 FR RDS

CCSJ 2452-02-130
SL 1604
DESIGN SPEED
MAINLANES = 60 mph
FRONTAGE ROADS = 45 mph
RAMP = 35 mph
DIRECT CONNECTORS = 45 mph
CROSS STREETS = 45/30 mph
AREA OF DISTURBED SOIL = 66 AC.
ADT:
168,750 = (2025)
235,300 = (2045)
FUNCTIONAL CLASS = URBAN FREEWAY

DIST	PROJECT NO.		SHEET NO.
15			1
STATE	DIST	COUNTY	
TEXAS	SAT	BEXAR	
CONT	SECT	JOB	HIGHWAY
2452	02	130, ETC	SL 1604,ETC

REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION REQUIRED
TDLR NO.
ACCESSIBILITY STANDARDS = PROWAG
FINAL PLANS

LETTING DATE: _____
DATE CONTRACTOR BEGAN WORK: _____
DATE WORK WAS ACCEPTED: _____
DATE WORK WAS COMPLETED: _____
FINAL CONTRACT COST: $ _____
CONTRACTOR: _____

FINAL PLANS STATEMENT:

THE CONSTRUCTION WORK WAS PERFORMED IN ACCORDANCE WITH THE PLANS:

_____ P.E. _____
AREA ENGINEER DATE

TEXAS DEPARTMENT OF TRANSPORTATION

LJA Engineering, Inc.
FRN - F-1386

BEGIN PROJECT
MI MRK: 11.777
REF MRK: 527.79
℄ ML1604 STA 4400+00.00
BEGIN CSJ 2452-02-130
BEGIN RCSJ 2452-03-133

℄ ML1604 STA 4479+85.85
END CSJ 2452-02-130
END RCSJ 2452-03-133
BEGIN CSJ 2452-03-113
BEGIN RCSJ 2452-03-129

N.T.S.

EXCEPTIONS: N/A
EQUATION: STA 4412+82.55 = STA 4412+82.88 LP 1604
RR X-ING'S: N/A

END PROJECT
MI MRK: 30.780
REF MRK: 532.15
℄ ML1604 STA 4624+00.00
END CSJ 2452-03-113
END RCSJ 2452-03-129

ATTACHMENT NO. 01-22 TO SPECIAL AGREEMENT FOR CONSTRUCTION, MAINTENANCE, AND OPERATIONS OF HIGHWAY LIGHTING SYSTEMS WITHIN A MUNICIPALITY, DATED JUNE 24, 2014. THE CITY-STATE CONSTRUCTION, MAINTENANCE AND OPERATION RESPONSIBILITIES SHALL BE AS HERETOFORE AGREED TO, ACCEPTED, AND SPECIFIED IN THE AGREEMENT TO WHICH THESE PLANS ARE MADE A PART.

CONCURRENCE

CITY OF SAN ANTONIO

RECOMMENDED FOR LETTING:

PLAN REVIEW

RECOMMENDED FOR LETTING:

TRANSPORTATION ENGINEER

RECOMMENDED FOR LETTING:

DIRECTOR OF TRANSPORTATION, PLANNING AND DEVELOPMENT

APPROVED FOR LETTING:

DISTRICT ENGINEER

COUNTY BEXAR PROJ. NO. _____
HWY. NO. LP1604 LETTING DATE _____
DATE ACCEPTED _____

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, JULY 5 2022)

WPAP VOL 4 OF 6

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN - F-1386

LP 1604

INDEX OF SHEETS

SHEET 1 OF 7

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

5:56:02 PM 3/3/2023

v:\bentley\dms\dms03426\130_GIX.dgn

486		PHASE 2 STEP 2 KEY MAP
487-514		PHASE 2 STEP 2 PLAN SHEET LAYOUTS
515-519		TRAFFIC CONTROL PLAN SMART WORK ZONE PHASE 2 STEP 2 LAYOUTS
520-525		PHASE 2 STEP 2 DETOURS
526		PHASE 2 STEP 2 STAGE 1 CROSS SECTIONS
527		PHASE 2 STEP 2 STAGE 1 KEY MAP
528-530		PHASE 2 STEP 2 STAGE 1 PLAN SHEET LAYOUTS
531		PHASE 2 STEP 2 STAGE 1A CROSS SECTIONS
532		PHASE 2 STEP 2 STAGE 1A KEY MAP
533-536		PHASE 2 STEP 2 STAGE 1A PLAN SHEET LAYOUTS
537-540		PHASE 2 STEP 2 STAGE 1A DETOURS
541		PHASE 2 STEP 2 STAGE 2 CROSS SECTIONS
542		PHASE 2 STEP 2 STAGE 2 KEY MAP
543-544		PHASE 2 STEP 2 STAGE 2 PLAN SHEET LAYOUTS
545-546		PHASE 2 STEP 2 STAGE 2 DETOURS
547		PHASE 2 STEP 2 STAGE 3 CROSS SECTIONS
548		PHASE 2 STEP 2 STAGE 3 KEY MAP
549-552		PHASE 2 STEP 2 STAGE 3 PLAN SHEET LAYOUTS
553-554		PHASE 2 STEP 2 STAGE 3 DETOURS
555		PHASE 2 STEP 2 STAGE 4 CROSS SECTIONS
556		PHASE 2 STEP 2 STAGE 4 KEY MAP
557-561		PHASE 2 STEP 2 STAGE 4 PLAN SHEET LAYOUTS
562		PHASE 2 STEP 2 STAGE 5 CROSS SECTIONS
563		PHASE 2 STEP 2 STAGE 5 KEY MAP
564-566		PHASE 2 STEP 2 STAGE 5 PLAN SHEET LAYOUTS
567		PHASE 2 STEP 2 STAGE 5 DETOURS
568		PHASE 2 STEP 2 STAGE 6 CROSS SECTIONS
569		PHASE 2 STEP 2 STAGE 6 KEY MAP
570-573		PHASE 2 STEP 2 STAGE 6 PLAN SHEET LAYOUTS
574		PHASE 2 STEP 2 STAGE 7 CROSS SECTIONS
575		PHASE 2 STEP 2 STAGE 7 KEY MAP
576-582		PHASE 2 STEP 2 STAGE 7 PLAN SHEET LAYOUTS
583		PHASE 2 STEP 2 STAGE 8 CROSS SECTIONS
584		PHASE 2 STEP 2 STAGE 8 KEY MAP
585-594		PHASE 2 STEP 2 STAGE 8 PLAN SHEET LAYOUTS
595		PHASE 2 STEP 3 TYPICAL SECTIONS
596		PHASE 2 STEP 3 CROSS SECTIONS
597		PHASE 2 STEP 3 KEY MAP
598-625		PHASE 2 STEP 3 PLAN SHEET LAYOUTS
626-628		PHASE 3 TCP PHASE LAYOUTS
629-630		PHASE 3 STEP 1 TYPICAL SECTIONS
631-633		PHASE 3 STEP 1 CROSS SECTIONS
634		PHASE 3 STEP 1 KEY MAP
635-662		PHASE 3 STEP 1 PLAN SHEET LAYOUTS
663-668		PHASE 3 STEP 1 PEDESTRIAN DETOURS
669-673		TCP HORIZONTAL ALIGNMENT DATA
674-688		CONSTRUCTING DETOUR LAYOUTS
689-699		TEMPORARY SHORING AND WALL LAYOUTS
700-702		MUD CREEK TEMPORARY ACCESS ROAD
703-705		DRIVEWAY CONSTRUCTION DETAILS

TRAFFIC CONTROL PLAN STANDARDS

706	A	ABSORB (M)-19
707-718	A	BC(1)-21 THRU BC(12)-21
719	A	EDGECON-21
720-721	A	LPCB-13
722	A	RW(TEW)-22
723	A	SLED-19
724-725	A	SP-80 (1)-12 THRU SP-80 (2)-12
726-727	A	SSCB (2)-10
728	A	SSCB (5)-10
729-733	A	TCP (1-1)-18 THRU TCP (1-5)-18
734-740	A	TCP (2-1)-18 THRU TCP (2-7)-18
741-742	A	TCP (3-1)-13 THRU TCP (3-2)-13
743	A	TCP (3-3)-14
744	A	TCP (3-4)-13
745	A	TCP (5-1)-18
746-752	A	TCP (6-1)-12 THRU TCP (6-7)-12
753	A	TCP (6-8)-14
754	A	TCP (7-1)-13
755-761	A	TCP (SC-1)-21 THRU TCP (SC-7)-21
762-765	A	TLRS(1)-17 THRU TLRS(4)-17
766	A	TS-CD-22
767	A	WZ (BRK)-13
768-769	A	WZ (BTS-1)-13 THRU WZ(BTS-1)-13
770	A	WZ (RCD)-13
771	A	WZ (RS)-16
772	A	WZ (STPM)-13
773	A	WZ (TD)-17
774	A	WZ (UL)-13

ROADWAY DETAILS

775-777	SURVEY CONTROL LAYOUTS
778	SURVEY CONTROL SKETCHES
779-791	HORIZONTAL ALIGNMENT DATA
792-814	REMOVAL PLAN
815-841	MAINLANE PLAN & PROFILE
842-865	EBFR PLAN & PROFILE
866-889	WBFR PLAN & PROFILE
890	GOLD CANYON RD WB TO EB TURNAROUND PLAN & PROFILE
891	REDLAND RD EB TO WB TURNAROUND PLAN & PROFILE
892	REDLAND RD WB TO EB TURNAROUND PLAN & PROFILE
893	PEDESTRIAN BRIDGE AT MUD CREEK WB PLAN & PROFILE
894	PEDESTRIAN BRIDGE AT MUD CREEK EB PLAN & PROFILE
895	EB EXIT RAMP TO US 281 PLAN & PROFILE
896	EB ENTRANCE RAMP FROM VOIGT PLAN & PROFILE
897	EB ENTRANCE RAMP FROM SAN PEDRO AVE PLAN & PROFILE
898	EB ENTRANCE RAMP FROM US 281 PLAN & PROFILE
899-900	EB EXIT RAMP TO REDLAND RD PLAN & PROFILE
901-902	EB EXIT RAMP TO BULVERDE RD PLAN & PROFILE
903-904	WB ENTRANCE RAMP FROM SIGMA RD PLAN & PROFILE
905-906	WB ENTRANCE RAMP FROM US 281 PLAN & PROFILE
907	WB EXIT RAMP TO HARDY OAK BLVD PLAN & PROFILE
908	WB EXIT RAMP TO SAN PEDRO AVE PLAN & PROFILE
909-910	WB EXIT RAMP TO US 281 PLAN & PROFILE
911-912	WB ENTRANCE RAMP FROM BULVERDE RD PLAN & PROFILE
913-914	WB ENTRANCE RAMP FROM REDLAND RD PLAN & PROFILE
915-958	DRIVEWAY PLAN & PROFILE
959	DRIVEWAY DETAILS
960-961	REESAN FOUNDATION DETAILS
962-968	RAMP GORE LAYOUTS
969-979	INTERSECTION LAYOUTS
980-982	KARST CLOSURE DETAIL
983-987	SPECIAL EXCAVATION DETAIL
988-990	ASPHALT CONCRETE PAVEMENT OVERLAY DETAIL
991-992	MISCELLANEOUS ROADWAY DETAILS
993	BASE REPAIR DETAILS
994	TRF-MS SIDEWALK DETAIL
995	MISCELLANEOUS SIDEWALK DETAILS
996	TRANSIT STOP DETAIL
997	CRASH CUSHION SUMMARY SHEET
998-999	BARRIER TRANSITION DETAILS SSCB TO SSTR
1000-1001	RAIL TRANSITION DETAILS SSTR TO C221

ROADWAY STANDARDS

1002	B	GF(31)-19
1003	B	GF(31)DAT-19
1004-1005	B	GF(31)TR TL3-20
1006	B	GF(31)MS-19
1007-1009	B	SRG(TL-3)-21
1010	B	BED-14
1011	B	CSB(4)-19
1012	B	SSCB(1F)-10
1013	B	SSCB(3)-10
1014	B	SSCB(4)-19
1015-1018	B	T80PP-RF
1019-1020	B	T80PP-TS
1021	B	TRF
1022	B	SGT(10S)31-16

WPAP VOL 4 OF 6

WPAP VOL 5 OF 6

STATE OF TEXAS
CULLEN HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

CULLEN HARPER, P.E. — 3/3/2023 DATE

A THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

B THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

INDEX OF SHEETS

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

1023	B	SGT(11S)31-18
1024	B	SGT(12S)31-18
1025	B	SGT(15)31-20
1026	B	QGELITE(M10) (N)-20
1027	B	SMTC(N)-16
1028	B	TE(HMAC)-11
1029-1030	B	CRCP(1)-20
1031	B	JS-14
1032-1033	B	MISCELLANEOUS CURB & SIDEWALK DETAILS (SAT DISTRICT STANDARD)
1034-1037	B	PED-18
1038-1040	B	PRD-13
1041-1042	B	PEDESTRIAN RAIL (TYPE PR11)
1043-1046	B	COMBINATION RAIL (TYPE C402)
1047	B	DRIVEWAY DETAILS (SAT DISTRICT STANDARD)
1048	B	TREE PROTECTION (SAT DISTRICT STANDARD)
1049	B	TREE PRUNING AND REMOVAL (SAT DISTRICT STANDARD)
1050	B	COLORED TEXTURED CONCRETE & LANDSCAPE PAVERS (SAT DISTRICT STANDARD)

RETAINING WALL DETAILS

1051-1060	RETAINING WALL HORIZONTAL ALIGNMENT DATA
1061	RETAINING WALL RW430 LAYOUT
1062	RETAINING WALL RW430 TYPICAL
1063-1067	RETAINING WALL RW401 LAYOUT
1068	RETAINING WALL RW401 TYPICAL
1069-1070	RETAINING WALL RW402 LAYOUT
1071	RETAINING WALL RW402 TYPICAL
1072-1073	RETAINING WALL RW403 LAYOUT
1074	RETAINING WALL RW403 TYPICAL
1075	RETAINING WALL RW419 LAYOUT
1076	RETAINING WALL RW419 TYPICAL
1077	RETAINING WALL RW404 LAYOUT
1078	RETAINING WALL RW404 TYPICAL
1079	RETAINING WALL RW428 LAYOUT
1080	RETAINING WALL RW428 TYPICAL
1081	RETAINING WALL RW420 LAYOUT
1082	RETAINING WALL RW420 TYPICAL
1083	RETAINING WALL RW429 LAYOUT
1084	RETAINING WALL RW429 TYPICAL
1085-1086	RETAINING WALL RW405 LAYOUT
1087	RETAINING WALL RW405 TYPICAL
1088-1089	RETAINING WALL RW406 LAYOUT
1090	RETAINING WALL RW406 TYPICAL
1091	RETAINING WALL RW425 LAYOUT
1092	RETAINING WALL RW425 TYPICAL
1093	RETAINING WALL RW426 LAYOUT
1094	RETAINING WALL RW426 TYPICAL
1095	RETAINING WALL RW427 LAYOUT
1096	RETAINING WALL RW427 TYPICAL
1097-1098	RETAINING WALL RW407 LAYOUT
1099	RETAINING WALL RW407 TYPICAL
1100-1106	RETAINING WALL RW408 LAYOUT
1107	RETAINING WALL RW408 TYPICAL
1108-1111	RETAINING WALL RW409 LAYOUT
1112	RETAINING WALL RW409 TYPICAL
1113-1114	RETAINING WALL RW410 LAYOUT
1115	RETAINING WALL RW410 TYPICAL
1116	RETAINING WALL RW411 LAYOUT
1117	RETAINING WALL RW411 TYPICAL
1118	RETAINING WALL RW412 LAYOUT
1119	RETAINING WALL RW412 TYPICAL
1120	RETAINING WALL RW413 LAYOUT
1121	RETAINING WALL RW413 TYPICAL
1122-1123	RETAINING WALL RW414 LAYOUT
1124	RETAINING WALL RW414 TYPICAL
1125-1129	RETAINING WALL RW415 LAYOUT
1130	RETAINING WALL RW415 TYPICAL
1131	RETAINING WALL RW416 LAYOUT
1132	RETAINING WALL RW416 TYPICAL
1133-1135	RETAINING WALL RW417 LAYOUT
1136	RETAINING WALL RW417 TYPICAL
1137-1141	RETAINING WALL RW418 LAYOUT
1142	RETAINING WALL RW418 TYPICAL
1143-1145	RETAINING WALL RW421 LAYOUT
1146	RETAINING WALL RW421 TYPICAL
1147-1153	RETAINING WALL RW422 LAYOUT
1154	RETAINING WALL RW422 TYPICAL
1155-1157	RETAINING WALL RW423 LAYOUT
1158	RETAINING WALL RW423 TYPICAL
1159-1160	RETAINING WALL RW424 LAYOUT
1161	RETAINING WALL RW424 TYPICAL
1162-1163	MISCELLANEOUS WALL DETAILS
1164-1168	RETAINING WALL RW401 NAIL LAYOUT
1169-1173	RETAINING WALL RW403 NAIL LAYOUT
1174-1175	RETAINING WALL RW420 NAIL LAYOUT
1176-1177	RETAINING WALL RW426 NAIL LAYOUT
1178-1192	RETAINING WALL RW408 NAIL LAYOUT
1193-1202	RETAINING WALL RW409 NAIL LAYOUT
1203-1205	RETAINING WALL 408 & 409 DETAILS
1206-1212	RETAINING WALL RW414 NAIL LAYOUT
1213-1224	RETAINING WALL RW415 NAIL LAYOUT
1225-1234	RETAINING WALL RW417 NAIL LAYOUT
1235-1238	RETAINING WALL RW418 NAIL LAYOUT
1239-1242	RETAINING WALL RW421 NAIL LAYOUT
1243-1245	RETAINING WALL RW423 NAIL LAYOUT
1246-1252	SOIL-ROCK NAIL WALL DETAILS
1253	RETAINING WALL RW405A DRILLED SHAFT CIP CONCRETE WALL
1254	RETAINING WALL RW405B DRILLED SHAFT CIP CONCRETE WALL
1255	RETAINING WALL RW405C DRILLED SHAFT CIP CONCRETE WALL
1256	RETAINING WALL RW405D DRILLED SHAFT CIP CONCRETE WALL
1257	RETAINING WALL RW406A DRILLED SHAFT CIP CONCRETE WALL
1258	RETAINING WALL RW406B DRILLED SHAFT CIP CONCRETE WALL
1259	RETAINING WALL RW407A DRILLED SHAFT CIP CONCRETE WALL
1260	RETAINING WALL RW407B DRILLED SHAFT CIP CONCRETE WALL
1261	RETAINING WALL RW420A DRILLED SHAFT CIP CONCRETE WALL
1262	RETAINING WALL RW425 DRILLED SHAFT CIP CONCRETE WALL
1263	RETAINING WALL RW426A DRILLED SHAFT CIP CONCRETE WALL
1264	RETAINING WALL RW426B DRILLED SHAFT CIP CONCRETE WALL
1265	RETAINING WALL RW429 DRILLED SHAFT CIP CONCRETE WALL
1266-1268	RETAINING WALL DRILLED SHAFT CIP CONCRETE WALL DETAILS
1269-1273	TEMPORARY RETAINING WALL TRW401 NAIL LAYOUT
1274-1277	TEMPORARY RETAINING WALL TRW419 NAIL LAYOUT
1278-1279	TEMPORARY RETAINING WALL TRW404 NAIL LAYOUT
1280-1283	TEMPORARY RETAINING WALL TRW405 NAIL LAYOUT
1284-1290	TEMPORARY RETAINING WALL TRW406 NAIL LAYOUT
1291-1292	TEMPORARY RETAINING WALL TRW407 NAIL LAYOUT
1293-1299	TEMPORARY RETAINING WALL TRW410 NAIL LAYOUT
1300-1303	TEMPORARY RETAINING WALL TRW411 NAIL LAYOUT
1304-1305	TEMPORARY RETAINING WALL TRW412 NAIL LAYOUT
1306-1308	TEMPORARY RETAINING WALL TRW413 NAIL LAYOUT
1309-1314	TEMPORARY RETAINING WALL TRW415 NAIL LAYOUT
1315-1318	TEMPORARY RETAINING WALL TRW416 NAIL LAYOUT
1319-1331	TEMPORARY RETAINING WALL TRW418 NAIL LAYOUT
1332-1336	TEMPORARY RETAINING WALL TRW422 NAIL LAYOUT
1337-1342	TEMPORARY RETAINING WALL TRW423 NAIL LAYOUT
1343	TEMPORARY RETAINING WALL TRW427 NAIL LAYOUT
1344-1345	TEMPORARY RETAINING WALL TRW01 NAIL LAYOUT
1346-1348	TEMPORARY RETAINING WALL TRW02 NAIL LAYOUT
1349-1353	TEMPORARY RETAINING WALL TRW03 NAIL LAYOUT
1354-1358	TEMPORARY RETAINING WALL TRW04 NAIL LAYOUT
1359	TEMPORARY SOIL-ROCK NAIL DETAILS

RETAINING WALL STANDARDS

1360-1361	B	RW(MSE)
1362	B	RW(MSE) DD
1363	B	RW(TRF)
1364	B	RW(EM)
1365-1366	B	RW(LB)
1367	B	RW(BTR)
1368-1369	B	RW(RI)
1370	B	RW 2

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

B THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

INDEX OF SHEETS

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

5:56:06 PM 3/3/2023
v:\bentley\dms\dms03426\130_GIX.dgn

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

B THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS · LUKE REED · 101242 · LICENSED PROFESSIONAL ENGINEER

LUKE REED, P.E. — 3/3/2023 DATE

C THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS · HUMBERTO CONTRERAS · 99213 · LICENSED PROFESSIONAL ENGINEER

HUMBERTO CONTRERAS, P.E. — 3/3/2023 DATE

D THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

INDEX OF SHEETS

SHEET 4 OF 7

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

5:56:09 PM 3/3/2023
v:\bentley\dms\dms03426\130_GIX.dgn

1919		FOUNDATION DETAILS TYPE DS-42-1
1920-1922		ABUTMENT NO. 1
1923-1926		ABUTMENT NO. 3
1927		INTERIOR BENT NO. 2
1928-1929		COLUMN DETAILS TYPE B-1
1930		COLUMN DETAILS TYPE B-2
1931		FRAMING PLAN (SPANS 1-2)
1932-1934		195.00' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 1-2)
1935		IGND
1936		CLOSURE WALL DETAILS
		BRIDGE 87 - LP 1604 EBML BRIDGE AT MUD CREEK
1937		BRIDGE LAYOUT
1938-1939		BRIDGE TYPICAL SECTION
1940		ESTIMATED QUANTITIES AND BEARING SEAT ELEVATIONS
1941		PHASED REMOVAL EXIST ABUT NO. 1 & 6
1942		PHASED REMOVAL EXIST INTERIOR BENTS NO. 2-5
1943		FOUNDATION LAYOUT
1944-1946		ABUTMENT NO. 1
1947-1949		ABUTMENT NO. 4
1950-1951		INTERIOR BENT NO. 2 & 3
1952		FRAMING PLAN (SPANS 1-3)
1953		206.77 PRESTRESSED CONCRETE GIRDER UNIT (SPANS 1-3)
1954		IGND
		BRIDGE 88 - LP 1604 WBML BRIDGE WIDENING AT MUD CREEK
1955		BRIDGE LAYOUT
1956-1957		BRIDGE TYPICAL SECTION
1958		ESTIMATED QUANTITIES AND BEARING SEAT ELEVATIONS
1959		FOUNDATION LAYOUT
1960-1962		ABUTMENT NO. 1
1963-1965		ABUTMENT NO. 4
1966-1967		INTERIOR BENT NO. 2 & 3
1968		FRAMING PLAN (SPAN 1)
1969		68.92' PRESTRESSED CONCRETE GIRDER UNIT (SPAN 1)
1970		FRAMING PLAN (SPAN 2)
1971		68.93' PRESTRESSED CONCRETE GIRDER UNIT (SPAN 2)
1972		FRAMING PLAN (SPAN 3)
1973		68.92' PRESTRESSED CONCRETE GIRDER UNIT (SPAN 3)
1974		CLEANING AND SEALING EXISTING BRIDGE JOINTS
1975		IGND
		BRIDGE 89 - LP 1604 EB PEDESTRIAN BRIDGE AT MUD CREEK
1976		BRIDGE LAYOUT
1977		BRIDGE TYPICAL SECTION
1978		ESTIMATED QUANTITIES
1979		FOUNDATION LAYOUT
1980-1981		ABUTMENT NO. 1 OR 4
1982		INTERIOR BENT NO. 2 OR 3
1983		DECK AND RAIL APPROACH DETAIL
		BRIDGE 90 - LP 1604 WB PEDESTRIAN BRIDGE AT MUD CREEK
1984		BRIDGE LAYOUT
1985		BRIDGE TYPICAL SECTION
1986		ESTIMATED QUANTITIES
1987		FOUNDATION LAYOUT
1988-1989		ABUTMENT NO. 1 OR 4
1990		INTERIOR BENT NO. 2 OR 3
1991		DECK AND RAIL APPROACH DETAIL
		BRIDGE 91 - LP 1604 UNDERPASS AT REDLAND RD EAST TO WEST TURNAROUND
1992		BRIDGE LAYOUT
1993		BRIDGE TYPICAL SECTIONS
1994		ESTIMATED QUANTITIES AND BEARING SEAT ELEVATIONS
1995		FOUNDATION LAYOUT
1996		FOUNDATION DETAILS TYPE DS-48-1
1997-1998		ABUTMENT NO. 1
1999-2000		ABUTMENT NO. 3
2001		INTERIOR BENT NO. 2
2002-2003		COLUMN DETAILS TYPE B-1
2004		COLUMN DETAILS TYPE B-2
2005		FRAMING PLAN (SPANS 1-2)
2006-2007		239.90' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 1-2)
2008		IGND
		BRIDGE 93 - LP 1604 UNDERPASS AT REDLAND RD WEST TO EAST TURNAROUND
2009		BRIDGE LAYOUT
2010		BRIDGE TYPICAL SECTIONS
2011		ESTIMATED QUANTITIES AND BEARING SEAT ELEVATIONS
2012		FOUNDATION LAYOUT
2013		FOUNDATION DETAILS TYPE DS-48-1
2014-2015		ABUTMENT NO. 1
2016-2017		ABUTMENT NO. 3
2018		INTERIOR BENT NO. 2
2019-2020		COLUMN DETAILS TYPE B-1
2021		COLUMN DETAILS TYPE B-2
2022		FRAMING PLAN (SPANS 1-2)
2023-2024		239.90' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 1-2)
2025		IGND
		BRIDGE COMMON DETAILS
2026		BRIDGE DECK DRAIN QUANTITIES
2027		BRIDGE DECK DRAIN DETAILS
2028		JOINT REPLACEMENT
2029-2036		CSAB PHASE PLACEMENT DETAILS
		BRIDGE STANDARDS
2037-2038		BAS-A (MOD)
2039-2040		BD-2 (MOD)
2041		BRIDGE NBI NUMBER STENCIL (SAT DISTRICT STANDARD) (MOD)
2042-2043		IGTS (MOD)
2044-2047		SGMD (MOD)
2048-2049		SGTS (MOD)
2050	E	AJ
2051	E	BAS-A
2052	E	BAS-C
2053-2055	F	BMCS
2056	F	BS-EJCP
2057	F	CRR
2058-2059	F	CSAB
2060-2061	F	FD
2062-2063	F	IGD
2064-2066	F	IGEB
2067-2068	F	IGMS
2069	F	IGSK
2070-2071	F	MEBR(C)
2072	F	MEBR(S)
2073-2076	F	PCP
2077	F	PCP-FAB
2078-2079	F	PMDF
2080-2081	F	PR11
2082	F	SEJ-M
2083	F	SGMS
2084-2086	F	SGEB
2087-2088	F	SSTR
2089	F	HILL COUNTRY REGION RETAINING WALL CORNER DETAILS
2090-2091	F	HILL COUNTRY REGION RETAINING WALL ELEVATION
2092	F	HILL COUNTRY THEME TREATMENT FOR M.S.E. RETAINING WALLS
2093	F	HILL COUNTRY REGION ABUTMENT WALL ELEVATION
2094	F	HILL COUNTRY REGION FINISHES AND TEXTURES
2095	F	HILL COUNTRY REGION COLOR PLACEMENT
2096	F	HILL COUNTRY REGION FORM LINER AND JOINT DETAILS
2097-2099	F	HILL COUNTRY REGION COLUMN DETAILS
2100	F	HILL COUNTRY REGION OVERHEAD SIGN AT TYPICAL BENT

WPAP VOL 5 OF 6

WPAP VOL 6 OF 6

STATE OF TEXAS
VASILEIOS SAMARAS
119161
LICENSED
PROFESSIONAL ENGINEER

VASILEIOS SAMARAS, P.E. — 3/3/2023 DATE

E THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS
NIKOLAS KALOS
124916
LICENSED
PROFESSIONAL ENGINEER

NIKOLAS KALOS, P.E. — 3/3/2023 DATE

F THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

INDEX OF SHEETS

SHEET 5 OF 7

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

STATE OF TEXAS · NIKOLAS KALOS · 124916 · LICENSED PROFESSIONAL ENGINEER

NIKOLAS KALOS, P.E. — 3/3/2023 DATE

F THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS · CHAN HUANG · 140624 · LICENSED PROFESSIONAL ENGINEER

CHAN HUANG, P.E. — 3/3/2023 DATE

J THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE
L BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS · JUSTIN W. CLARK · 118715 · LICENSED PROFESSIONAL ENGINEER

JUSTIN W. CLARK, P.E. — 3/3/2023 DATE

G THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE
L BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS · ADAM MICHAEL ELLIS · 91763 · LICENSED PROFESSIONAL ENGINEER

ADAM MICHAEL ELLIS, P.E. — 3/3/2023 DATE

K THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS · MATTHEW C. COLLINS · 129225 · LICENSED PROFESSIONAL ENGINEER

MATTHEW C. COLLINS, P.E. — 3/3/2023 DATE

H THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE
L BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

INDEX OF SHEETS

SHEET 6 OF 7

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

2540-2545	K	D&OM(1)-20 THRU D&OM(6)-20
2546	K	D&OM(VIA)-20
2547	K	SMD(GEN)-08
2548-2550	K	SMD(SLIP-1)-08 THRU SMD(SLIP-3)-08
2551-2554	K	SMD(2-1)-08 THRU SMD(2-4)-08
2555	K	SMD(2-6)-01
2556-2558	K	SMD(BR-1)-14 THRU SMD(BR-3)-14
2559	K	SMD(TY G)-08
2560-2561	K	SMD(8W1)-08 THRU SMD(8W2)-08
2562	K	WV & IZ-14
2563-2564	K	OSB-Z3
2565-2566	K	HOSB-Z3
2567	K	OSBT(1)-21
2568	K	OSBT(2)-21
2569	K	OSBC
2570	K	OSB-FD
2571	K	COSS-FD
2572	K	COSS & OSB-SZ
2573	K	COSS-Z3 & Z31-10
2574-2575	K	COSSD
2576	K	COSSF-21
2577	K	SPECIAL SIGN MOUNT DETAILS(7)(SAT DISTRICT STANDARD)
2578-2579	K	SWW(1)-14
2580-2581	K	SB(SWL-1)-14
2582	K	RAD(SAT DISTRICT STANDARD)

PAVEMENT MARKING DETAILS

2583-2614	PAVEMENT MARKINGS
2615-2616	PAVEMENT MARKINGS- STONE OAK PKWY
2617-2618	PAVEMENT MARKINGS- US 281
2619-2620	PAVEMENT MARKINGS- GOLD CANYON DR
2621-2622	PAVEMENT MARKINGS- REDLAND RD

PAVEMENT MARKING STANDARDS

2623-2628	K	FPM(1)-22 THRU FPM(6)-22
2629-2633	K	PM(1)-22 THRU PM(5)-22
2634	K	CPM(1)-14
2635	K	RS(1)-13
2636	K	RS(5)-13
2637-2639	K	TPMD(1)-18 THRU TPMD(3)-18 (SAT DISTRICT STANDARD)
2640	K	TCD-05 (SAT DISTRICT STANDARD)
2641	K	HSPM-08 (SAT DISTRICT STANDARD)
2642-2644	K	PMSD(1)-08 THRU PMSD(3)-08

EROSION CONTROL DETAILS

2645-2646	SW3P PLAN
2647-2649	EPIC
2650-2651	ENVIRONMENTAL FEATURES
2652	TCEQ GENERAL NOTES
2653-2675	WPAP SITE PLAN
2676-2697	EROSION CONTROL LAYOUT PHASE 1 STEP 1
2698-2720	EROSION CONTROL LAYOUT PHASE 1 STEP 2
2721-2740	EROSION CONTROL LAYOUT PHASE 2 STEP 1
2741-2755	EROSION CONTROL LAYOUT PHASE 2 STEP 2
2756-2777	EROSION CONTROL LAYOUT PHASE 3 STEP 1

EROSION CONTROL STANDARDS

2778-2780	D	EC(1)-16 THRU EC(3)-16
2781-2783	D	EC(9)-16

SUBSURFACE UTILITY ENGINEERING

2784	SUBSURFACE UTILITY ENGINEERING TITLE SHEET
2785	SUBSURFACE UTILITY ENGINEERING LAYOUT
2786-2809	SUBSURFACE UTILITY ENGINEERING PLAN SHEET
2810-2872	SUBSURFACE UTILITY ENGINEERING TEST HOLE DATA

UTILITIES

2873-2896	UTILITY LAYOUT

SAWS WATER JOINT BID UTILITY

2897	COVER SHEET
2898	GENERAL NOTES
2899	QUANTITY SUMMARY TABLE
2900-2904	SURFACE ADJUSTMENTS
2905-2908	DETAILS

SAWS SEWER JOINT BID UTILITY

2909	COVER SHEET
2910	GENERAL NOTES
2911-2912	TCEQ NOTES
2913	QUANTITY SUMMARY TABLE
2914-2918	SURFACE ADJUSTMENTS
2919	DETAILS

CPS GAS JOINT BID UTILITY

2920	COVER SHEET
2921	DATA TABLE AND QUANTITIES
2922-2926	PROJECT LAYOUT
2927-2950	GAS PLAN (LOOP 1604)
2951	TRENCH DETAILS

STATE OF TEXAS
HUMBERTO CONTRERAS
99213
LICENSED
PROFESSIONAL ENGINEER

HUMBERTO CONTRERAS, P.E. — 3/3/2023 DATE

D THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS
ADAM MICHAEL ELLIS
91763
LICENSED
PROFESSIONAL ENGINEER

ADAM MICHAEL ELLIS, P.E. — 3/3/2023 DATE

K THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/3/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

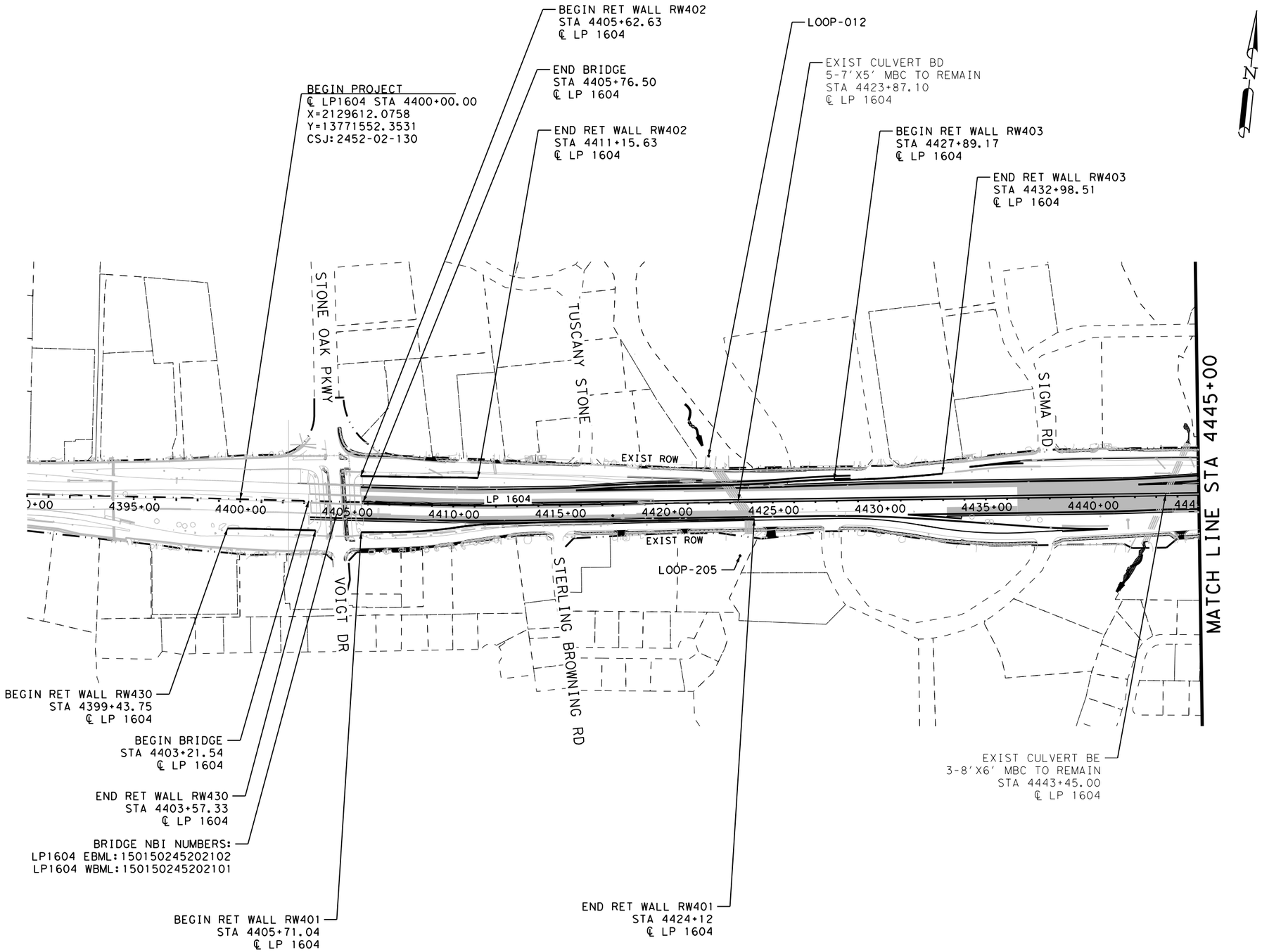
LJA Engineering, Inc.
FRN-F-1386

LP 1604

INDEX OF SHEETS

SHEET 7 OF 7

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	



DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

0' 125' 250' 500'
SCALE: 1"=500'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

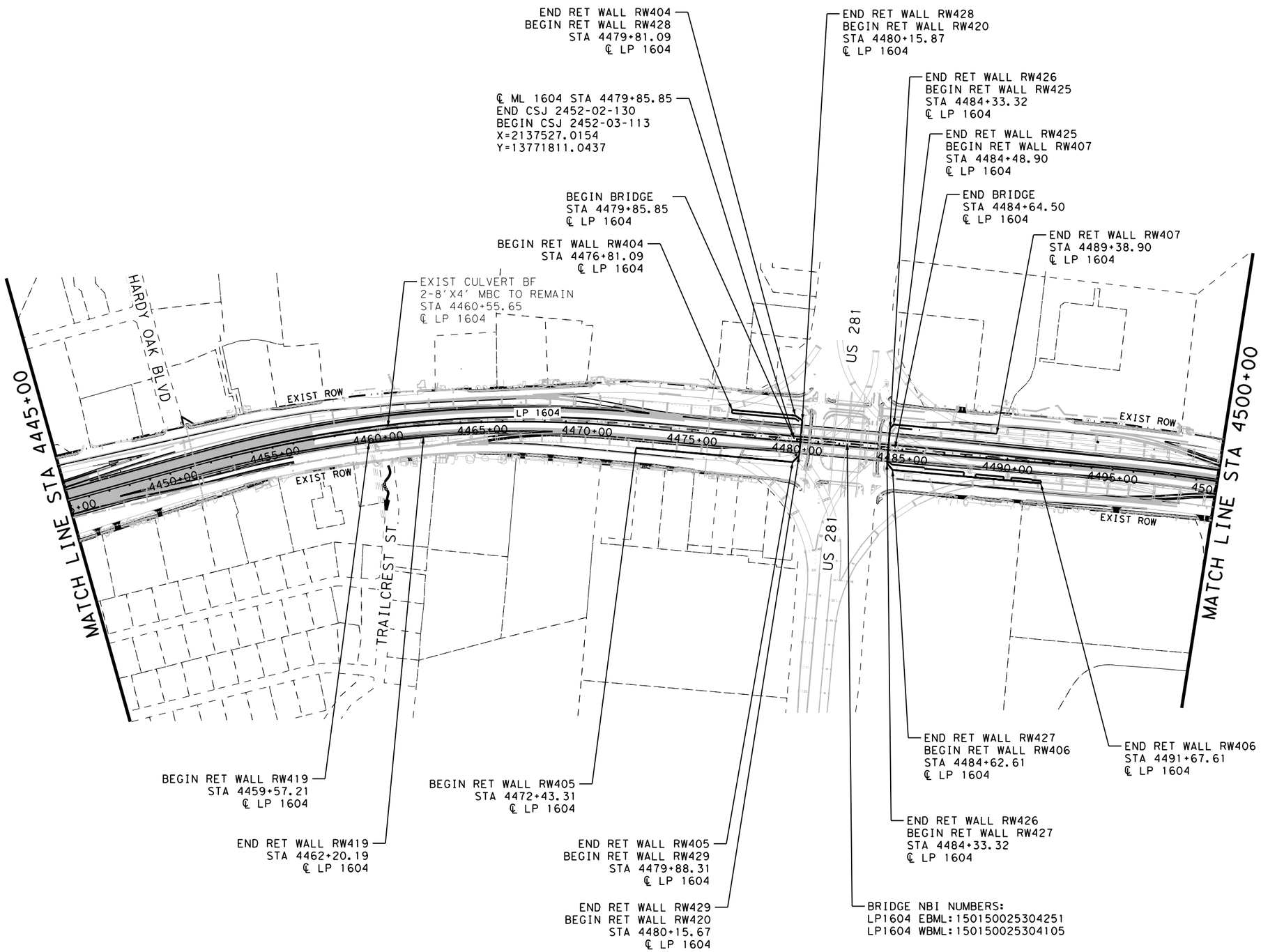
LJA Engineering, Inc.
FRN-F-1386

LP 1604
PROJECT LAYOUT

SHEET 1 OF 5

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:12 PM 2/27/2023
v:\bentley\dms\dms03426\130_GPL01.dgn



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

0' 125' 250' 500'

SCALE: 1"=500'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

PROJECT LAYOUT

SHEET 2 OF 5

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:14 PM 2/27/2023
v:\bentley\dms\dms03426\130_GPL02.dgn

END BRIDGE
STA 4518+03.92
℄ LP 1604

BRIDGE NBI NUMBERS:
GOLD CANYON RD: 150150245203075

BEGIN BRIDGE
STA 4517+90.71
℄ LP 1604

BEGIN BRIDGE
STA 4519+21.92
℄ LP 1604

BRIDGE NBI NUMBERS:
GOLD CANYON E TA:
150150245203313 (NEW)

END BRIDGE
STA 4543+22.48
℄ LP 1604

END BRIDGE
STA 23+05.25
℄ LP 1604

BEGIN RET WALL RW412
STA 4542+88.11
℄ LP 1604

END RET WALL RW411
STA 4540+95.18
℄ LP 1604

BEGIN RET WALL RW417
STA 4544+72.00
℄ LP 1604

END RET WALL RW412
STA 4545+86.17
℄ LP 1604

BEGIN RET WALL RW418
STA 4551+15.02
℄ LP 1604

END RET WALL RW417
STA 4554+74.87
℄ LP 1604

BEGIN RET WALL RW408
STA 4507+87.25
℄ LP 1604

BRIDGE NBI NUMBERS:
LP1604 EBML: 1501502452003016 (EXIST)
LP1604 EBML: 150150245203314 (NEW)
LP1604 WBML: 150150245203108 (EXIST)

END BRIDGE
STA 4519+73.93
℄ LP 1604

BEGIN BRIDGE
STA 4541+16.84
℄ LP 1604

BEGIN BRIDGE
STA 20+49.75
℄ LP 1604

BEGIN RET WALL RW411
STA 4537+48.24
℄ LP 1604

END RET WALL RW408
STA 4534+45.75
℄ LP 1604

E SONTERRA BLVD

LOOP-009

S-7-C NORTH

EXIST ROW

LP 1604

MUD CREEK

MATCH LINE STA 4500+00

MATCH LINE STA 4555+00

4500+00 4505+00 4510+00 4515+00 4520+00 4525+00 4530+00 4535+00 4540+00 4545+00 4550+00 4555

EXIST ROW

GOLD CANYON RD

MUD CREEK

BEGIN RET WALL RW409
STA 4513+01.80
℄ LP 1604

1604-F101

END RET WALL RW409
STA 4528+22.58
℄ LP 1604

BEGIN RET WALL RW410
STA 4534+12.08
℄ LP 1604

BEGIN BRIDGE
STA 10+46.75
℄ LP 1604

END RET WALL RW410
STA 4541+79.57
℄ LP 1604

BEGIN RET WALL RW413
STA 4542+80.14
℄ LP 1604

END BRIDGE
STA 12+87.25
℄ LP 1604

END RET WALL RW413
STA 4545+68.19
℄ LP 1604

BEGIN RET WALL RW414
STA 4546+62.58
℄ LP 1604

BEGIN RET WALL RW415
STA 4552+40.81
℄ LP 1604

END RET WALL RW414
STA 4554+00.36
℄ LP 1604

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

0′ 125′ 250′ 500′
SCALE: 1"=500′

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

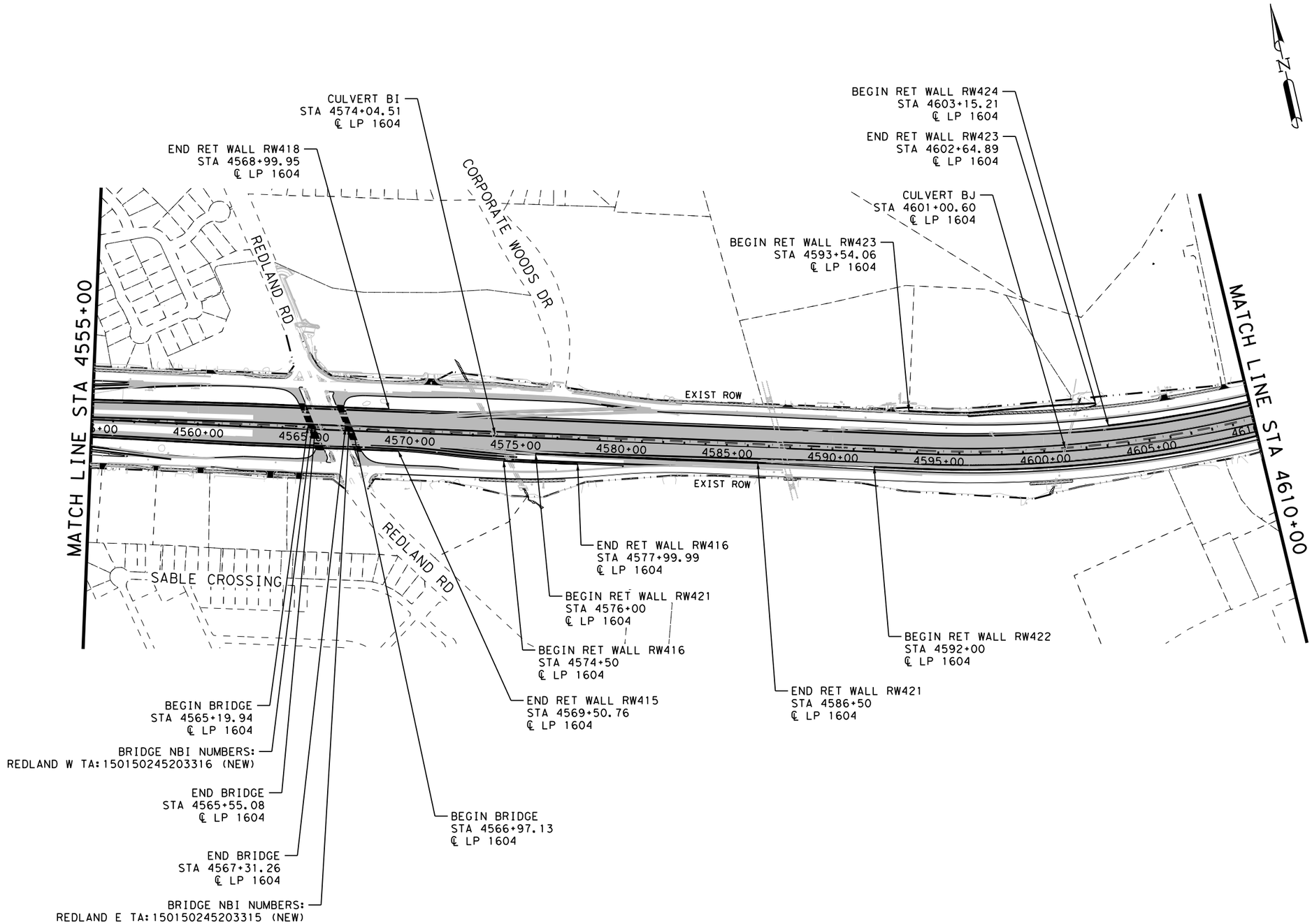
LP 1604

PROJECT LAYOUT

SHEET 3 OF 5

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:16 PM 2/27/2023
v:\bentley\dms\dms03426\130_GPL03.dgn



DESIGN

R. MATTHEW ESTES
101558
LICENSED
PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

0′ 125′ 250′ 500′

SCALE: 1"=500′

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

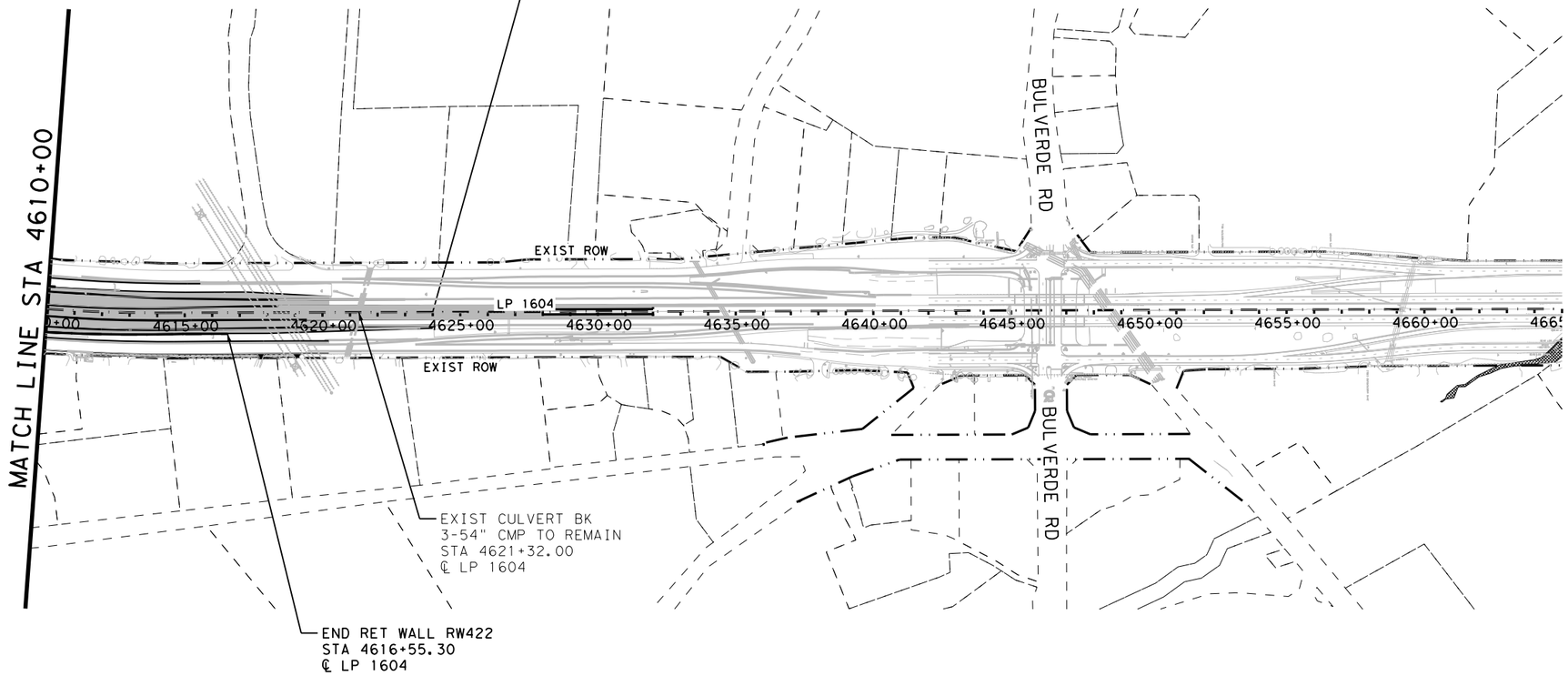
LP 1604

PROJECT LAYOUT

SHEET 4 OF 5

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:18 PM 2/27/2023
v:\bentley\dms\dms03426\130_GPL04.dgn



N

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED
PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

0' 125' 250' 500'
SCALE: 1"=500'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

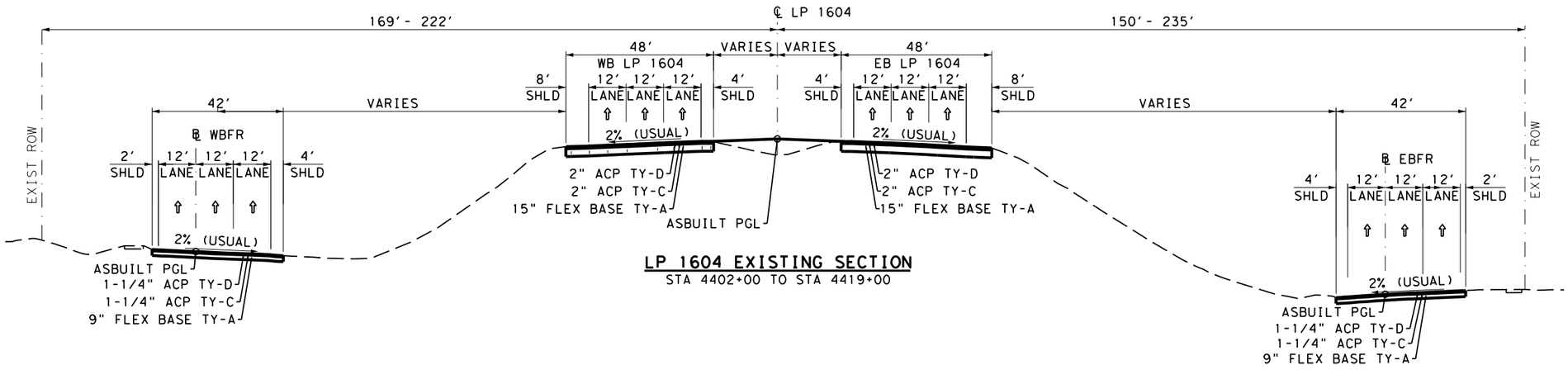
LP 1604

PROJECT LAYOUT

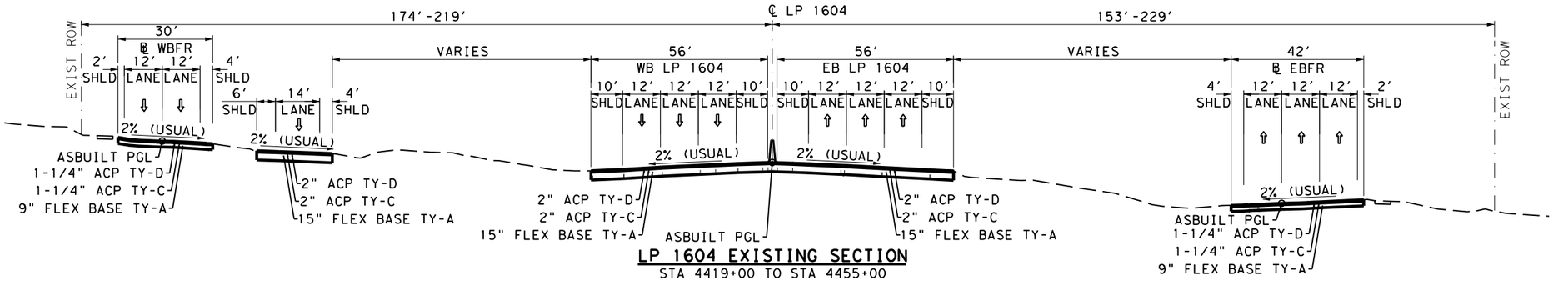
SHEET 5 OF 5

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

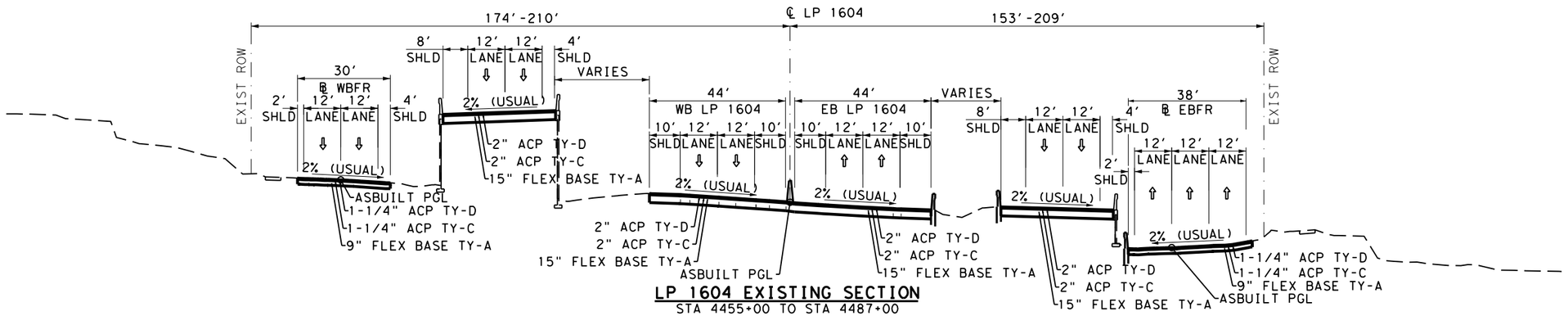
4:16:20 PM 2/27/2023
v:\bentley\dms\dms03426\130_GPL05.dgn



LP 1604 EXISTING SECTION
STA 4402+00 TO STA 4419+00



LP 1604 EXISTING SECTION
STA 4419+00 TO STA 4455+00



LP 1604 EXISTING SECTION
STA 4455+00 TO STA 4487+00

NOTE:

PAVEMENT THICKNESS SHOWN IN THE EXISTING TYPICAL SECTIONS ARE BASED UPON AS-BUILT DRAWINGS. THESE THICKNESSES DO NOT REFLECT THE ACTUAL PAVEMENT THICKNESS. PAVEMENT THICKNESS QUANTITIES ARE BASED UPON CORE DATA AS PUBLISHED IN THE PAVEMENT DESIGN REPORT FOR LOOP 1604, CSJ: 2452-02-130, 2452-03-113, DATED 08/26/2022 AND APPROVED 09/29/22. REPORT TO BE PROVIDED AT THE REQUEST OF CONTRACTOR.

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

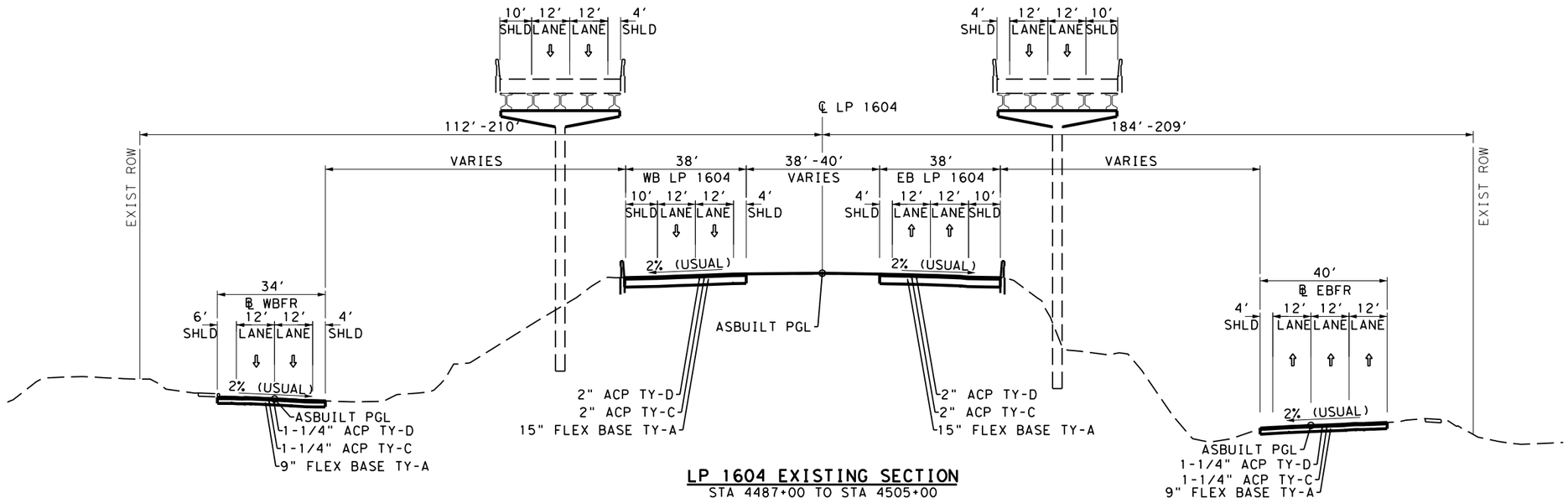
LP 1604

EXISTING TYPICAL SECTIONS

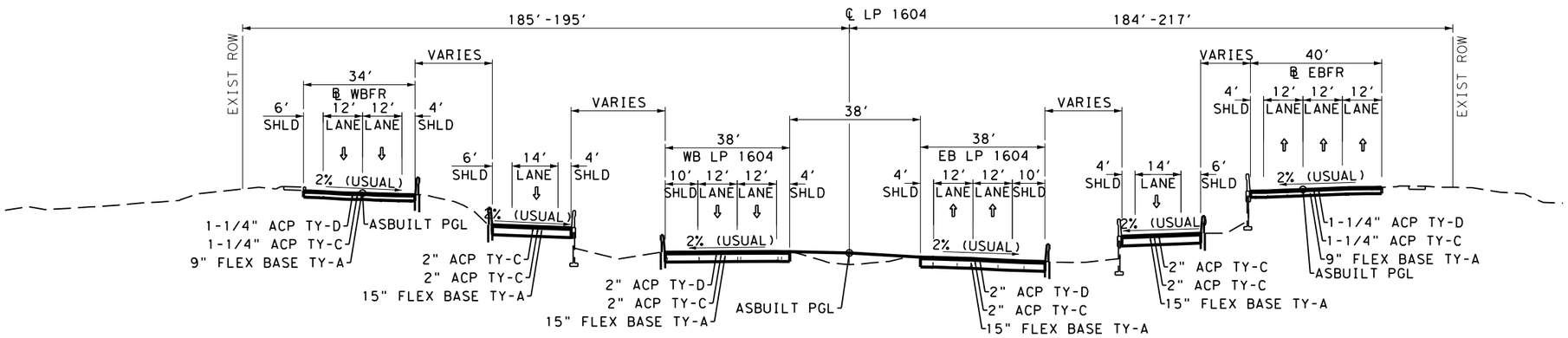
SHEET 1 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:23 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTX01.dgn



LP 1604 EXISTING SECTION
STA 4487+00 TO STA 4505+00



LP 1604 EXISTING SECTION
STA 4505+00 TO STA 4527+00

NOTE:

PAVEMENT THICKNESS SHOWN IN THE EXISTING TYPICAL SECTIONS ARE BASED UPON AS-BUILT DRAWINGS. THESE THICKNESSES DO NOT REFLECT THE ACTUAL PAVEMENT THICKNESS. PAVEMENT THICKNESS QUANTITIES ARE BASED UPON CORE DATA AS PUBLISHED IN THE PAVEMENT DESIGN REPORT FOR LOOP 1604, CSJ: 2452-02-130, 2452-03-113, DATED 08/26/2022 AND APPROVED 09/29/22. REPORT TO BE PROVIDED AT THE REQUEST OF CONTRACTOR.

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

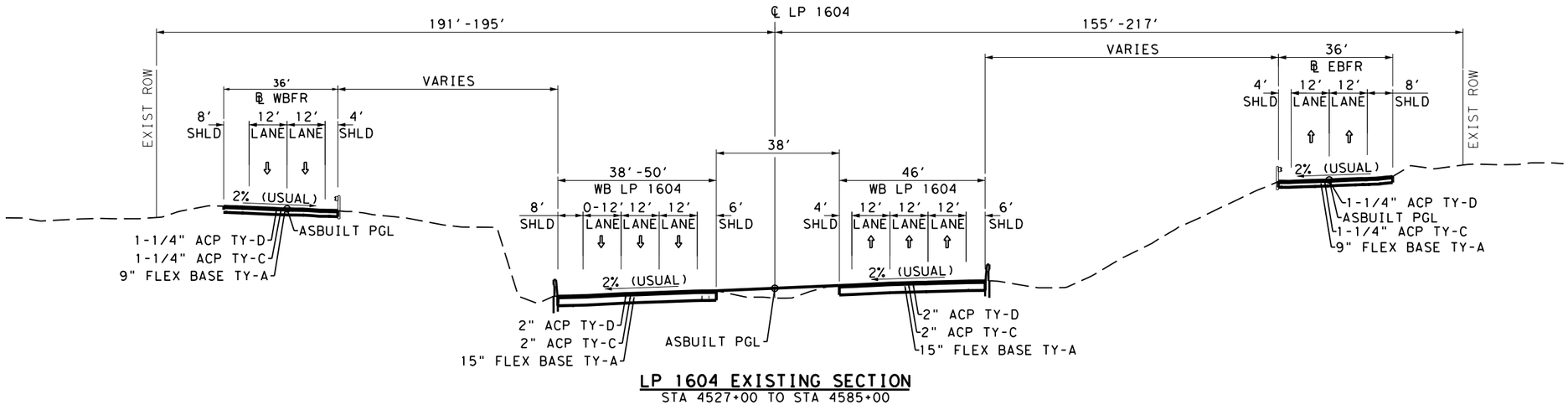
LP 1604

EXISTING
TYPICAL SECTIONS

SHEET 2 OF 3

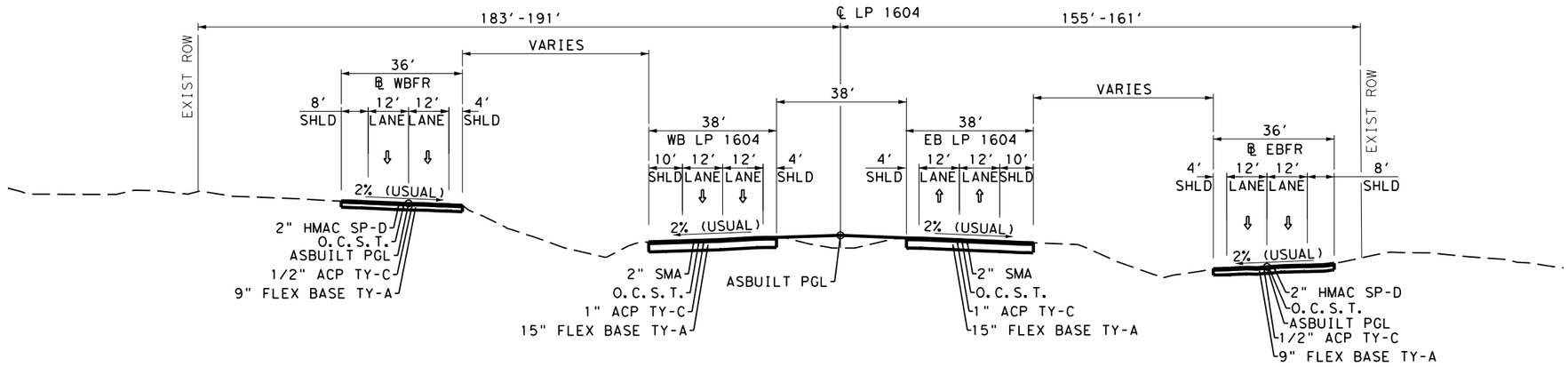
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:25 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTX02.dgn



LP 1604 EXISTING SECTION

STA 4527+00 TO STA 4585+00



LP 1604 EXISTING SECTION

STA 4585+00 TO 4624+00

NOTE:

PAVEMENT THICKNESS SHOWN IN THE EXISTING TYPICAL SECTIONS ARE BASED UPON AS-BUILT DRAWINGS. THESE THICKNESSES DO NOT REFLECT THE ACTUAL PAVEMENT THICKNESS. PAVEMENT THICKNESS QUANTITIES ARE BASED UPON CORE DATA AS PUBLISHED IN THE PAVEMENT DESIGN REPORT FOR LOOP 1604, CSJ: 2452-02-130, 2452-03-113, DATED 08/26/2022 AND APPROVED 09/29/22. REPORT TO BE PROVIDED AT THE REQUEST OF CONTRACTOR.

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

 Texas Department of Transportation

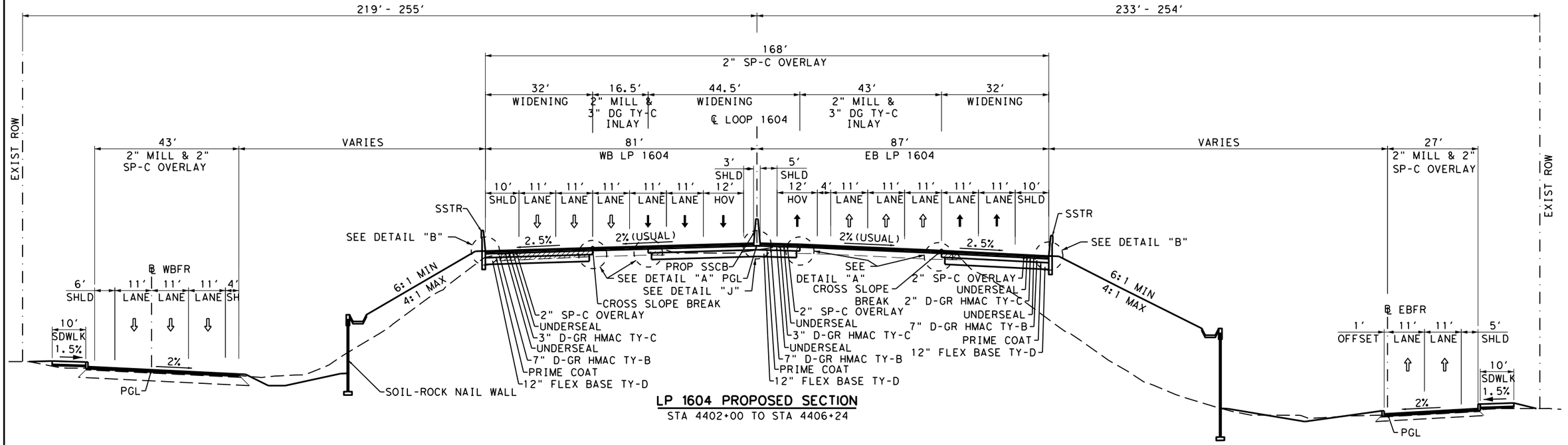
LP 1604

EXISTING TYPICAL SECTIONS

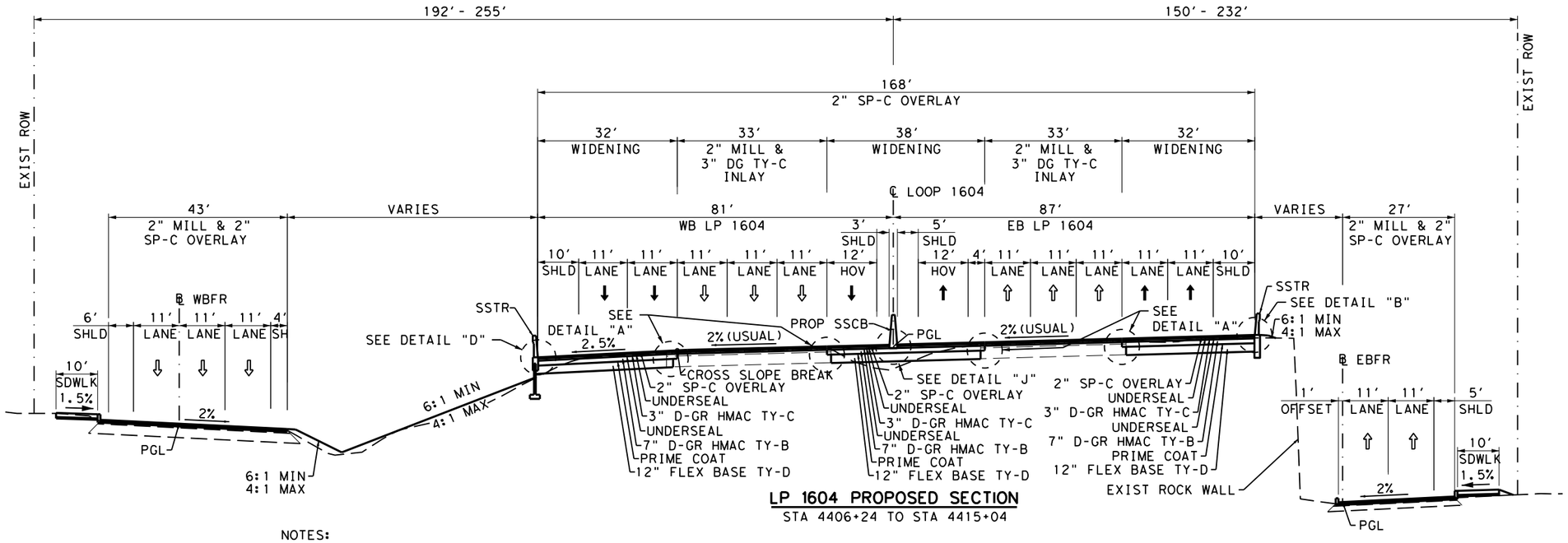
SHEET 3 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:26 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTX03.dgn



LP 1604 PROPOSED SECTION
STA 4402+00 TO STA 4406+24



LP 1604 PROPOSED SECTION
STA 4406+24 TO STA 4415+04

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:
PVMT REMOVAL

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

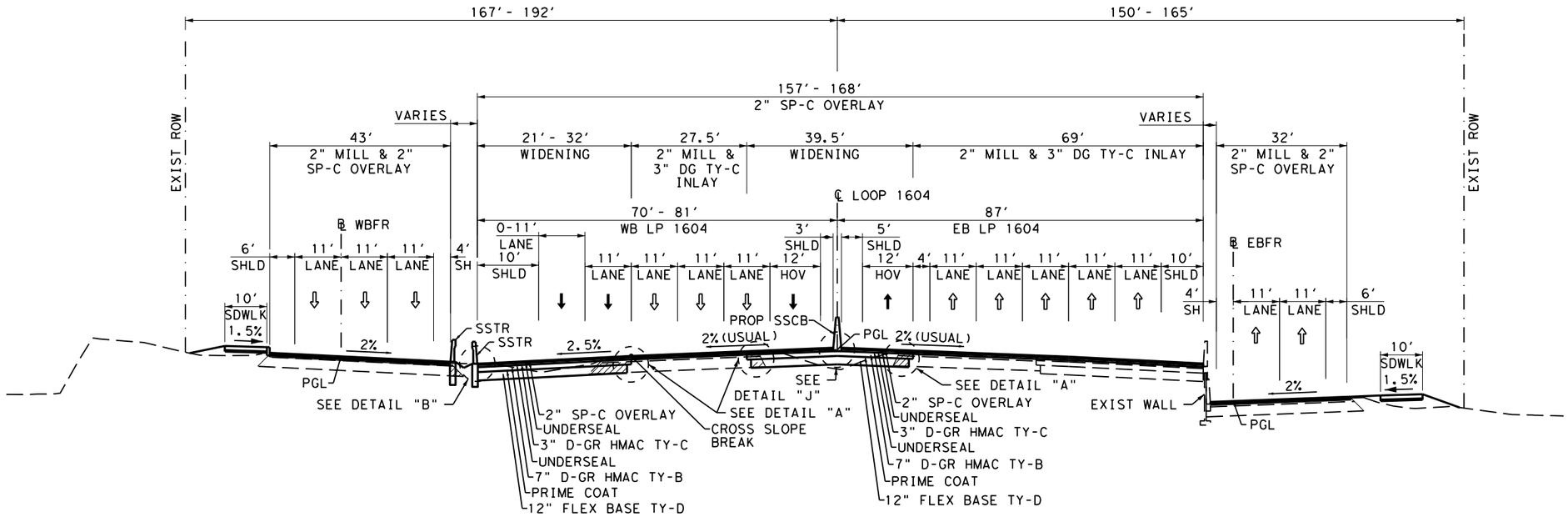
LP 1604

PROPOSED TYPICAL SECTIONS

SHEET 1 OF 11

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:28 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY01.dgn



LP 1604 PROPOSED SECTION

STA 4415+04 TO STA 4419+42

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

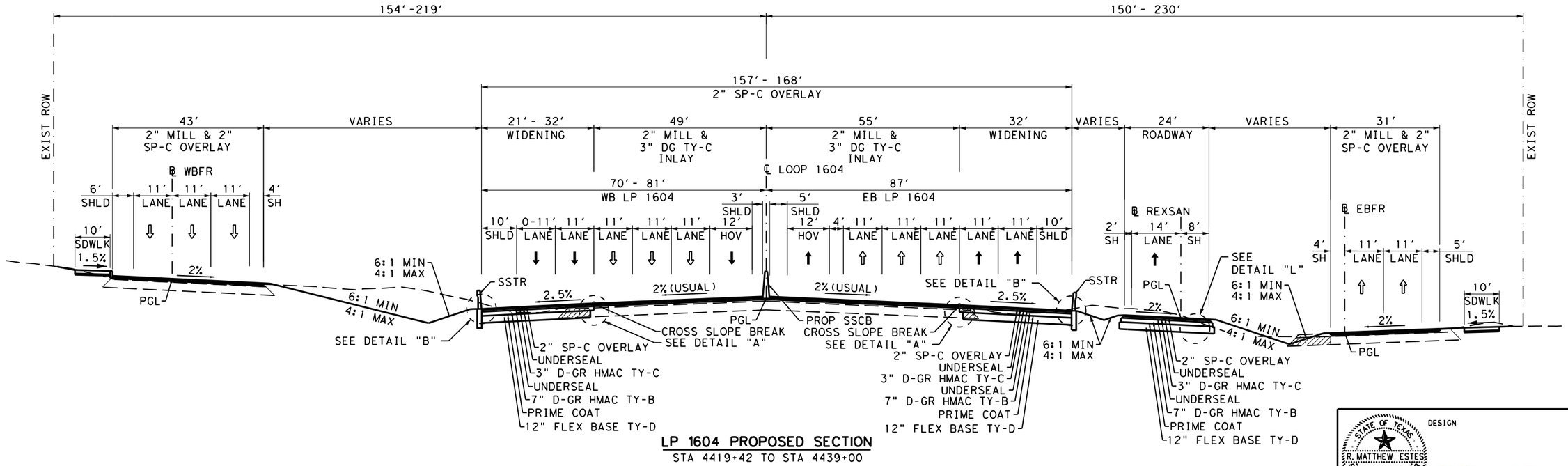
FRN - F-1386

LP 1604

PROPOSED TYPICAL SECTIONS

SHEET 2 OF 11

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	



LP 1604 PROPOSED SECTION

STA 4419+42 TO STA 4439+00

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

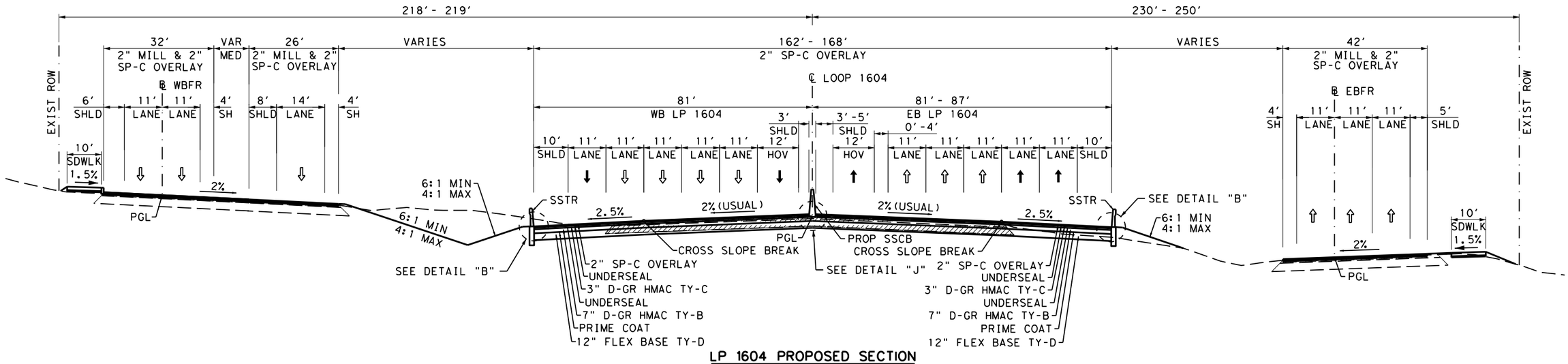
LJA Engineering, Inc.
FRN - F-1386

LP 1604

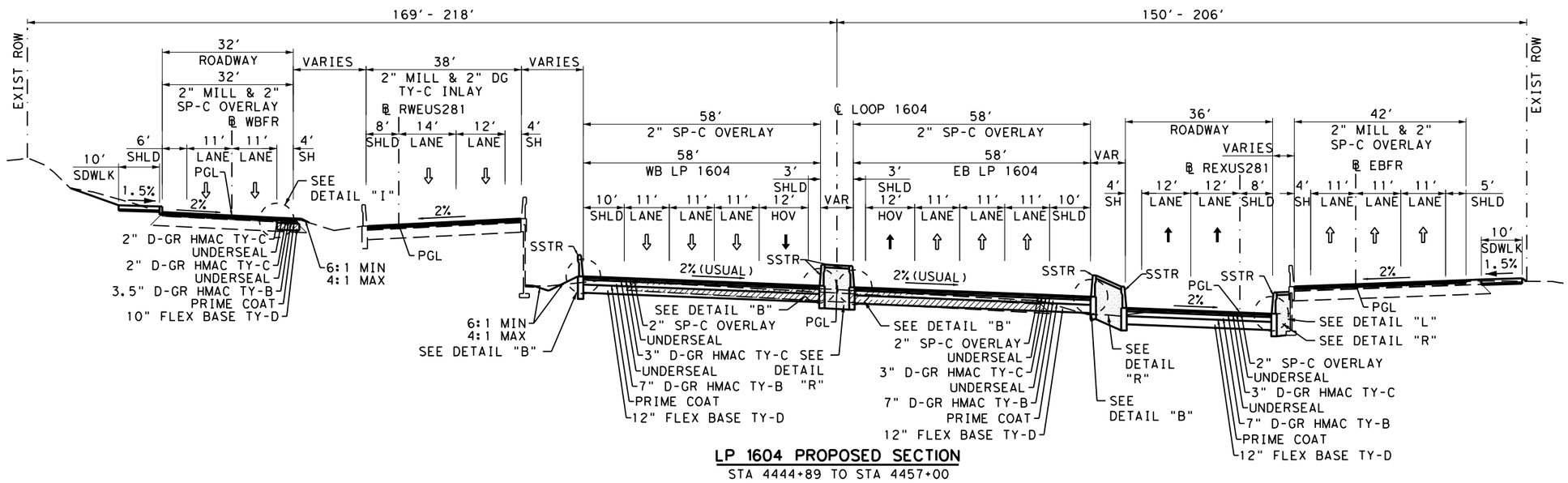
PROPOSED TYPICAL SECTIONS

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:30 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY03.dgn



LP 1604 PROPOSED SECTION
STA 4439+00 TO STA 4444+89



LP 1604 PROPOSED SECTION
STA 4444+89 TO STA 4457+00

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:
PVMT REMOVAL

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

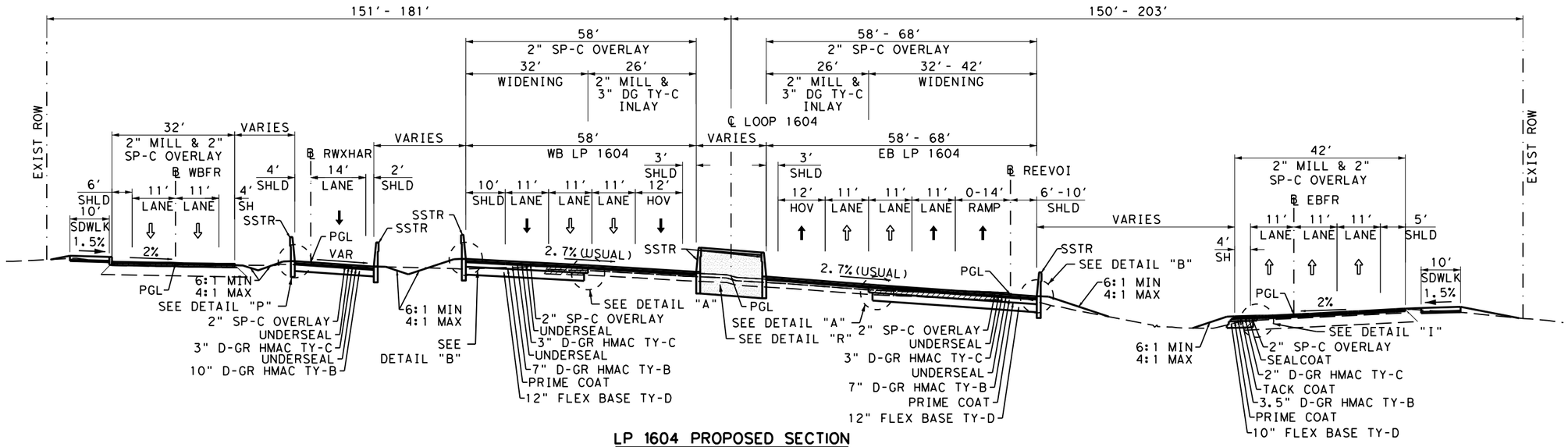
LJA Engineering, Inc.
FRN-F-1386

LP 1604
PROPOSED TYPICAL SECTIONS

SHEET 4 OF 11

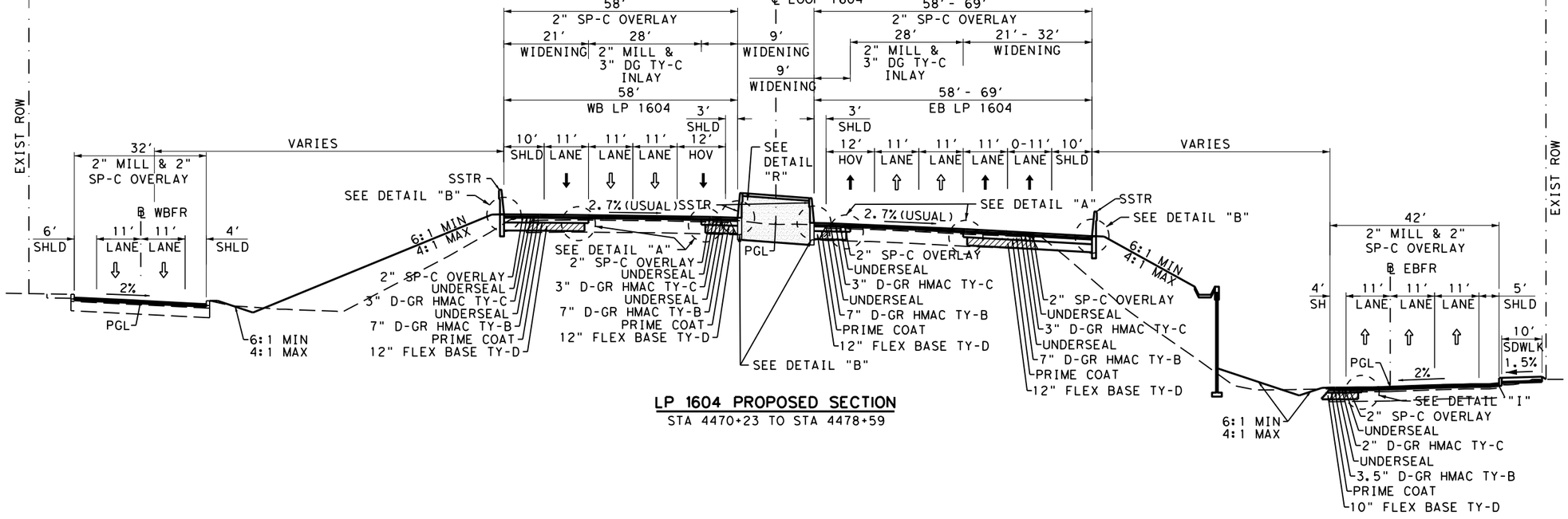
FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:31 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY04.dgn



LP 1604 PROPOSED SECTION

STA 4457+00 TO STA 4470+23



LP 1604 PROPOSED SECTION

STA 4470+23 TO STA 4478+59

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN-F-1386

Texas Department of Transportation

©2023

LP 1604

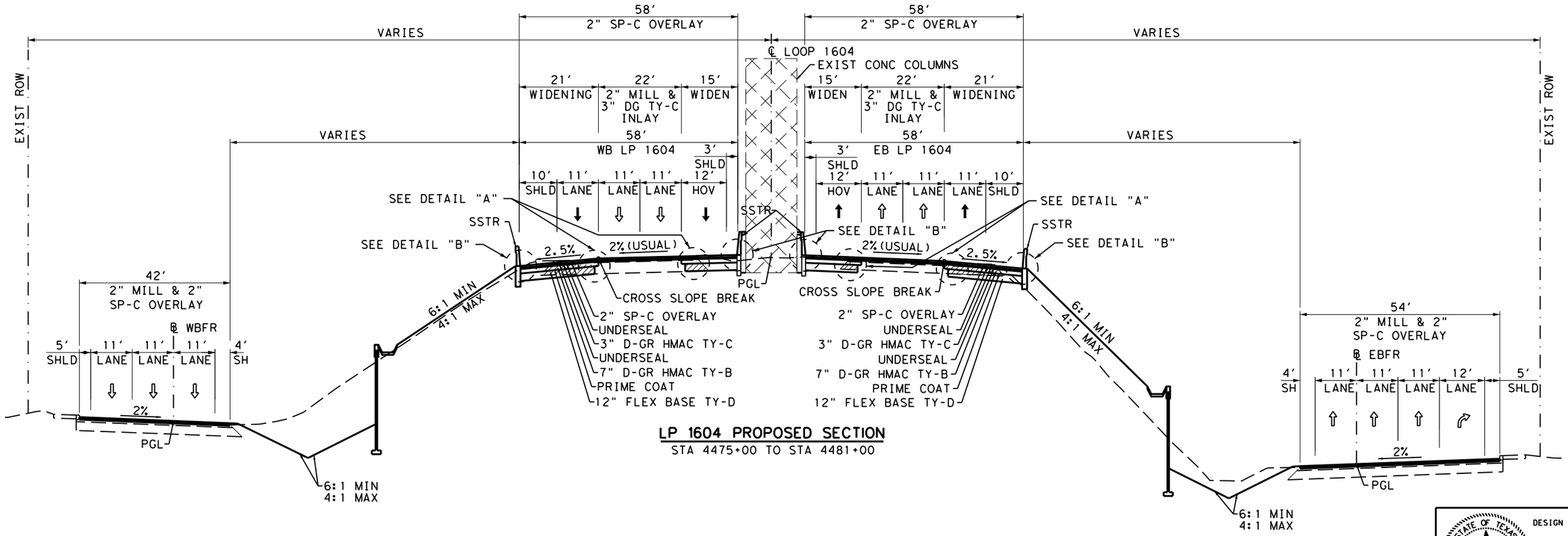
PROPOSED TYPICAL SECTIONS

SHEET 5 OF 11

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:33 PM 2/27/2023

v:\bentley\dms\dms03426\130_GTY05.dgn



LP 1604 PROPOSED SECTION

STA 4475+00 TO STA 4481+00

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

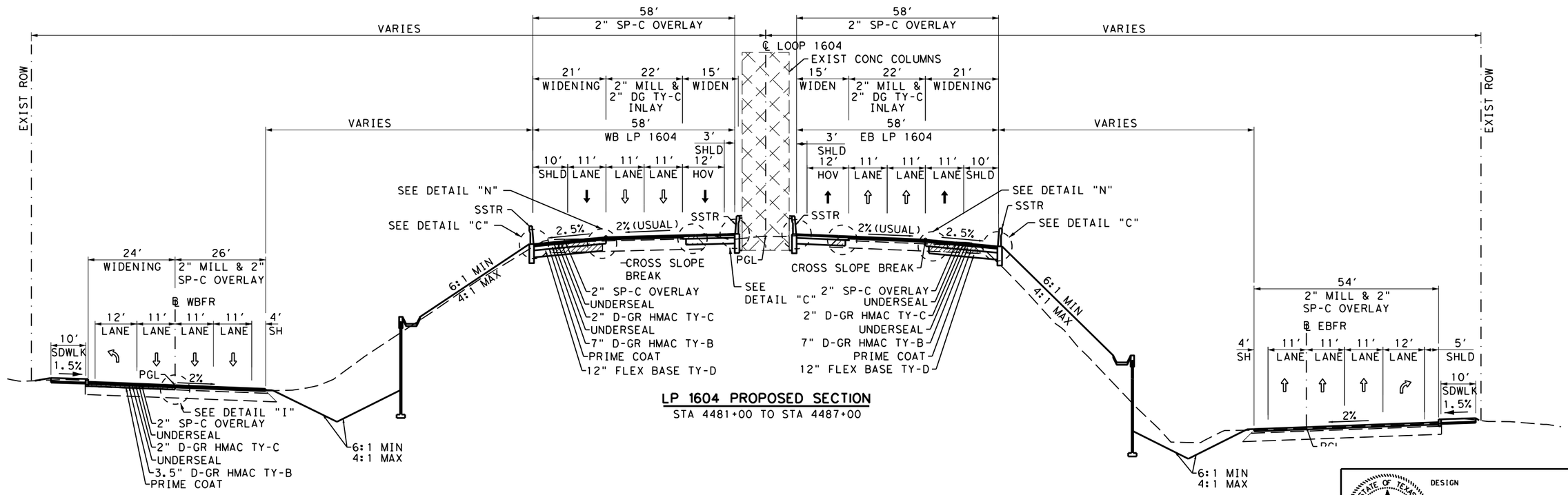
LP 1604

PROPOSED TYPICAL SECTIONS

SHEET 6 OF 11

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:34 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY06.dgn



LP 1604 PROPOSED SECTION

STA 4481+00 TO STA 4487+00

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

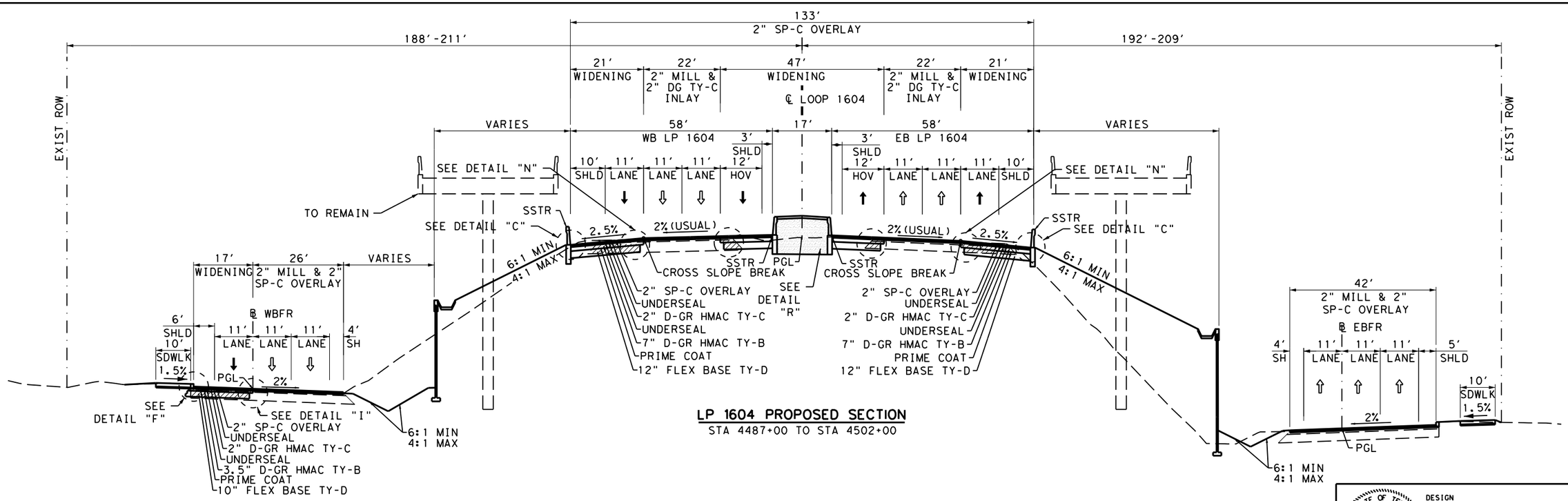
LP 1604

PROPOSED TYPICAL SECTIONS

SHEET 7 OF 11

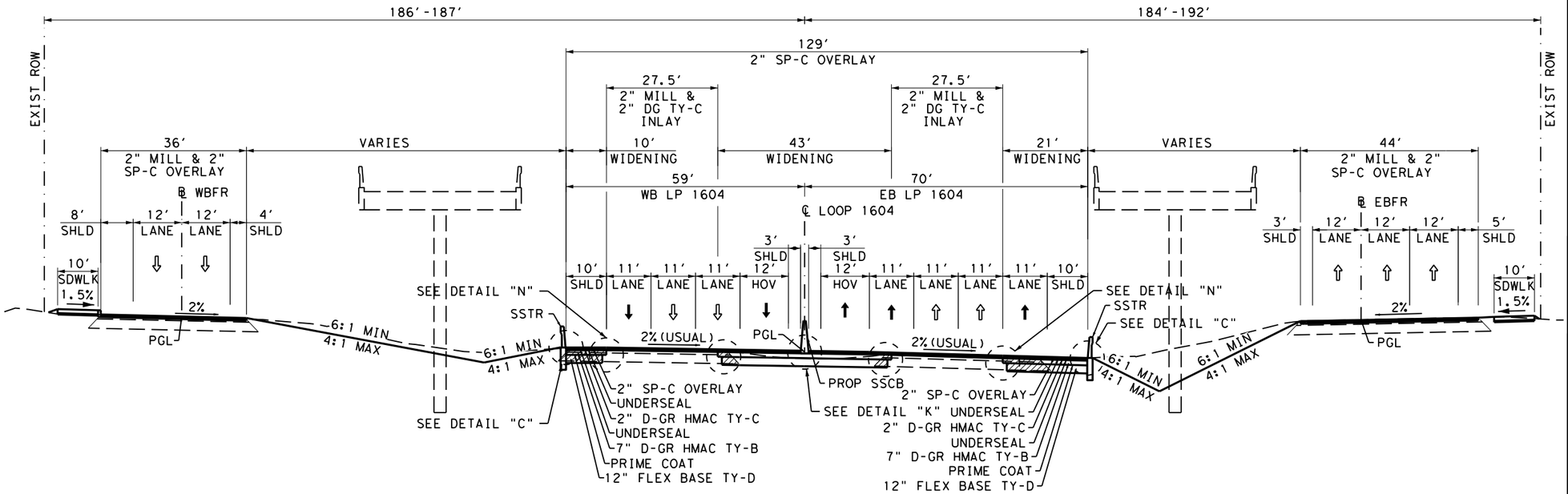
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:35 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY07.dgn



LP 1604 PROPOSED SECTION

STA 4487+00 TO STA 4502+00



LP 1604 PROPOSED SECTION

STA 4502+00 TO STA 4505+50

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation
©2023

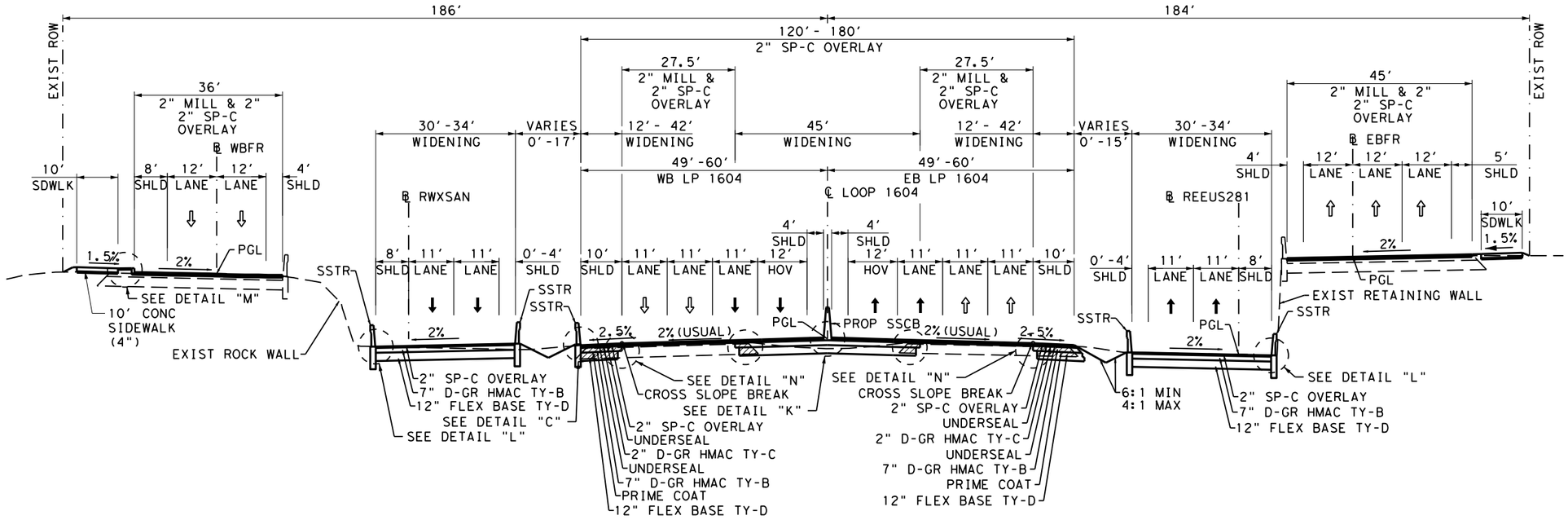
LP 1604

PROPOSED TYPICAL SECTIONS

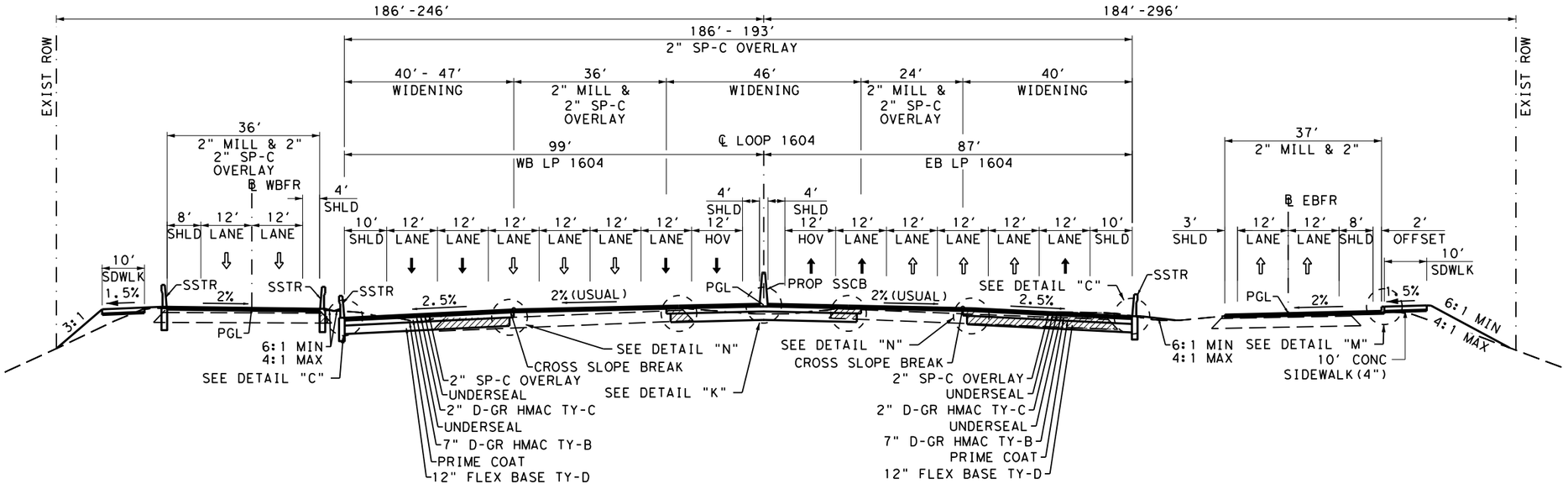
SHEET 8 OF 11

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:36 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY08.dgn



LP 1604 PROPOSED SECTION
STA 4505+50 TO STA 4517+50



LP 1604 PROPOSED SECTION
STA 4517+50 TO STA 4563+00

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

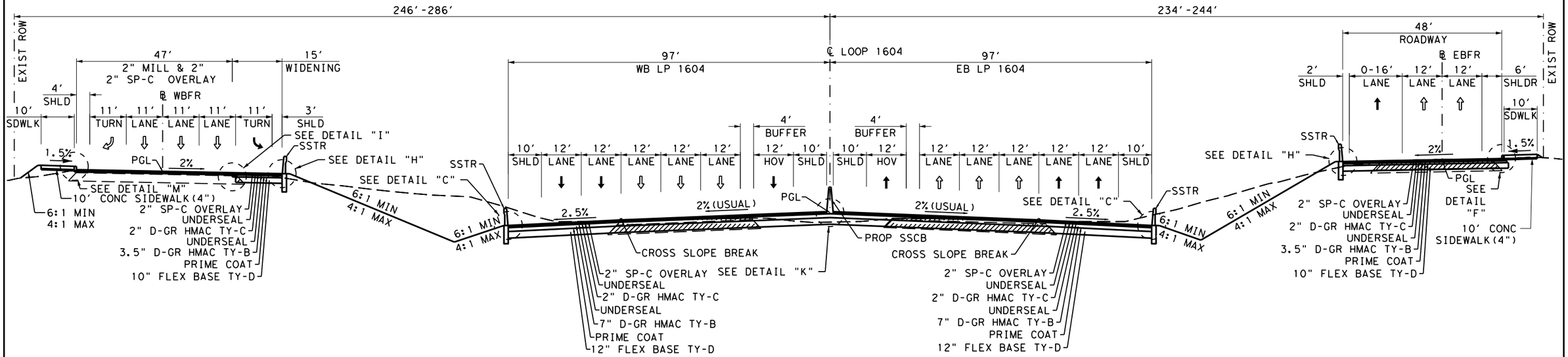
LP 1604

PROPOSED TYPICAL SECTIONS

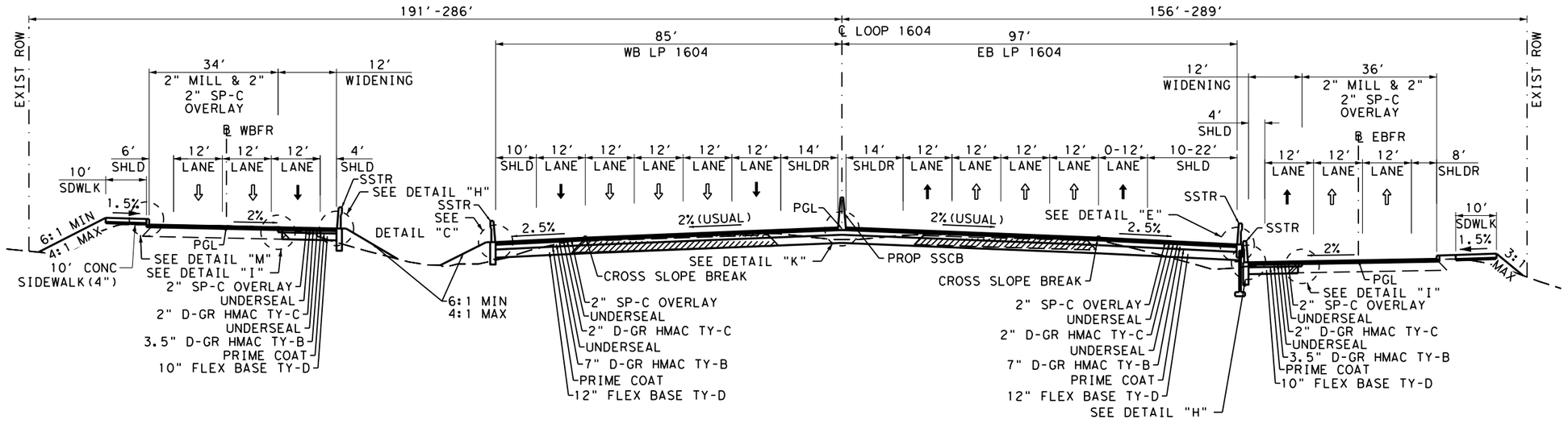
SHEET 9 OF 11

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:37 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY09.dgn



LP 1604 PROPOSED SECTION
STA 4563+00 TO STA 4572+00



LP 1604 PROPOSED SECTION
STA 4572+00 TO STA 4595+00

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:
PVMT REMOVAL

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

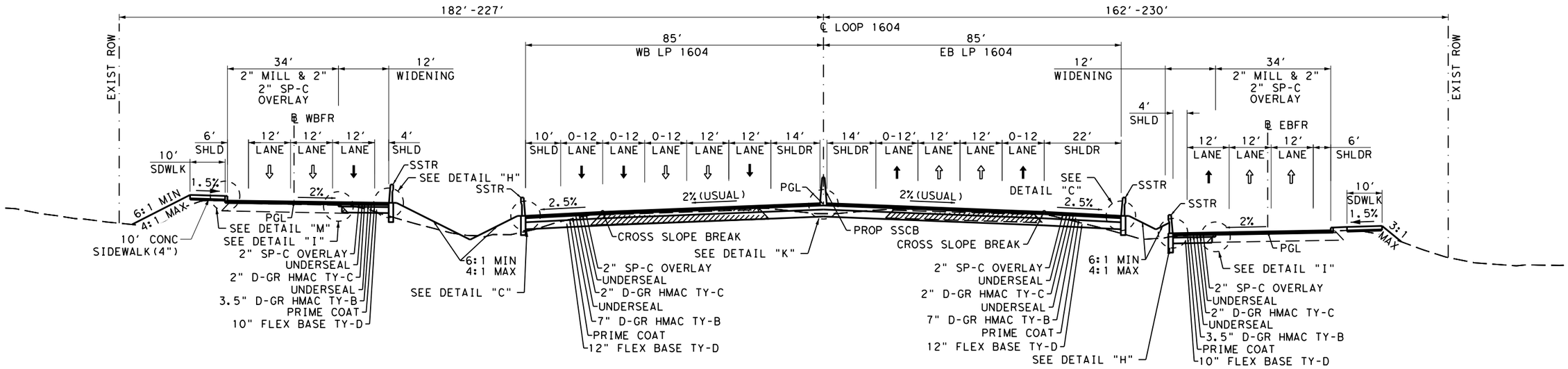
LP 1604

PROPOSED TYPICAL SECTIONS

SHEET 10 OF 11

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:39 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY10.dgn



LP 1604 PROPOSED SECTION

STA 4595+00 TO STA 4624+00

NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS RELATIVE TO TRAFFIC RAIL ARE TO NOMINAL FACE OF RAIL.
2. LOCATIONS OF BASE REPAIR SHOWN IN THE PLANS WILL BE VERIFIED BY THE ENGINEER IN THE FIELD. FINAL LOCATIONS AND QUANTITIES MAY VARY.
3. TY B SCHEDULE 2 RIDE QUALITY SHALL BE USED FOR MAIN LANES.
4. CROSS SLOPES SHOWN ON TYPICAL SECTIONS REPRESENT THE TYPICAL CROSS SLOPE FOR THE STATION RANGE AND MAY NOT REFLECT THE FULL RANGE OF CROSS SLOPES. SEE ROADWAY PLAN AND PROFILES AND SUPER ELEVATION TABLE FOR MORE INFORMATION ON CROSS SLOPE AND SUPER TRANSITIONS.

LEGEND:

PVMT REMOVAL

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED
PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

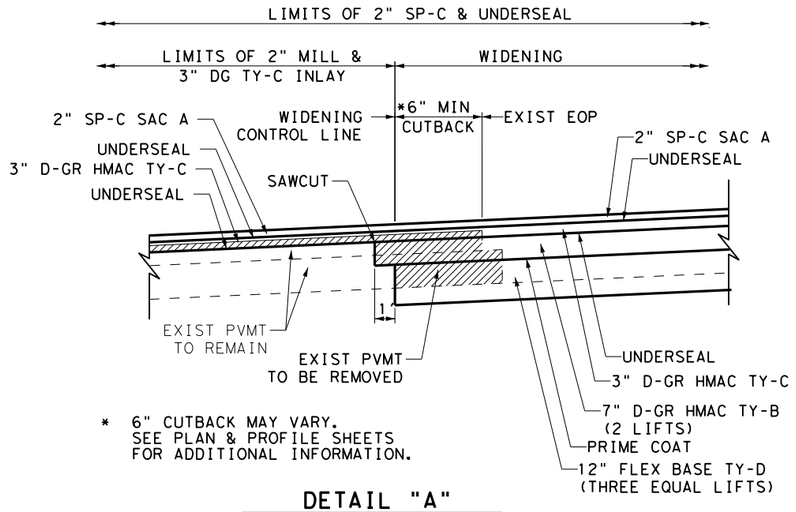
LP 1604

PROPOSED
TYPICAL SECTIONS

SHEET 11 OF 11

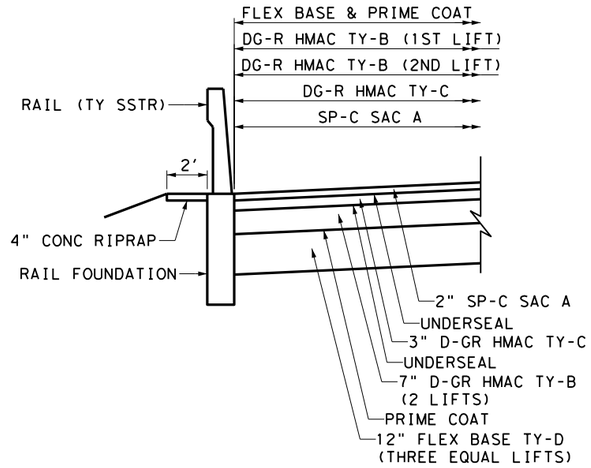
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:40 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY11.dgn

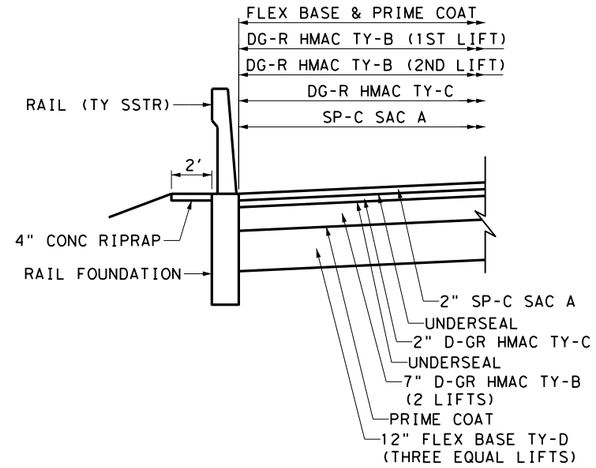


* 6" CUTBACK MAY VARY.
SEE PLAN & PROFILE SHEETS
FOR ADDITIONAL INFORMATION.

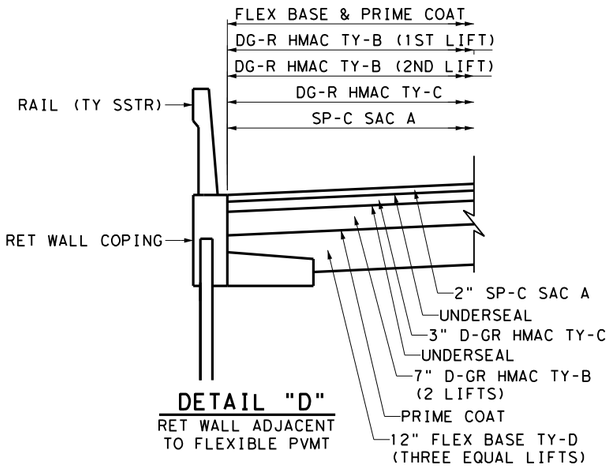
DETAIL "A"
MAIN LANE WIDENING DETAIL



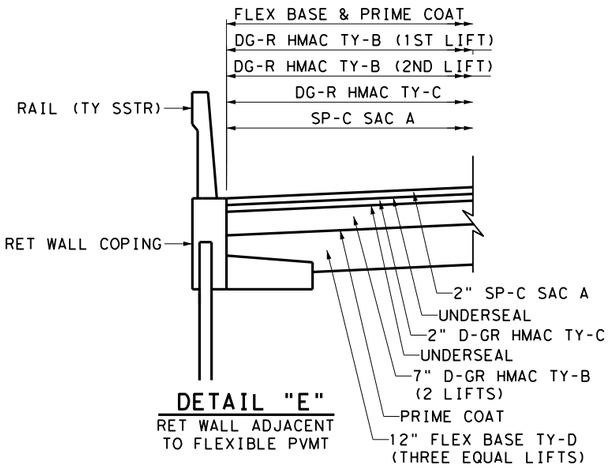
DETAIL "B"
PROP SSTR ADJACENT TO NEW ML PVMT



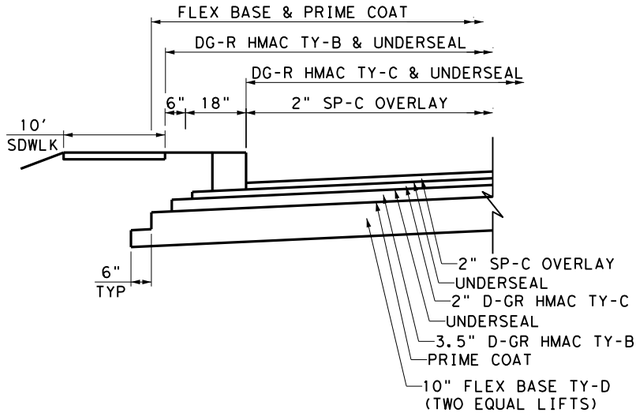
DETAIL "C"
PROP SSTR ADJACENT TO NEW ML PVMT



DETAIL "D"
RET WALL ADJACENT TO FLEXIBLE PVMT



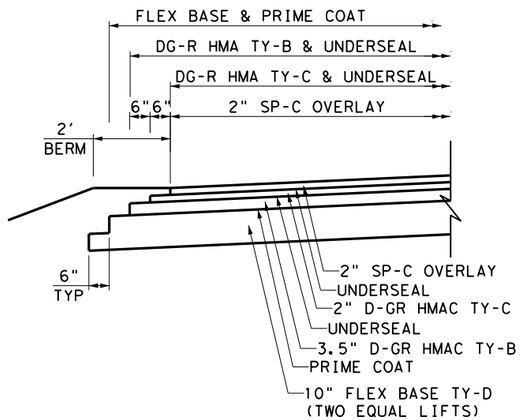
DETAIL "E"
RET WALL ADJACENT TO FLEXIBLE PVMT



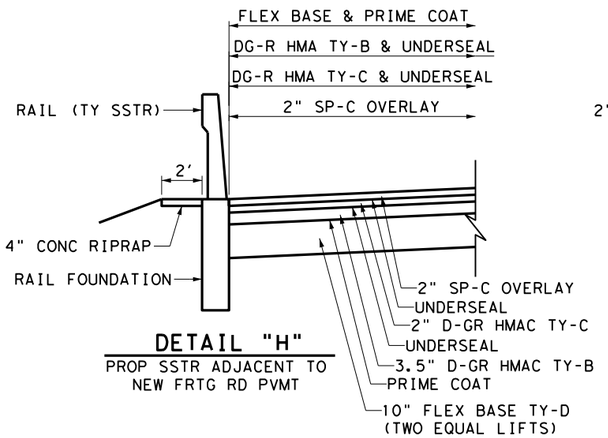
DETAIL "F"
CONC CURB TY I ON FRTG RD

NOTE:

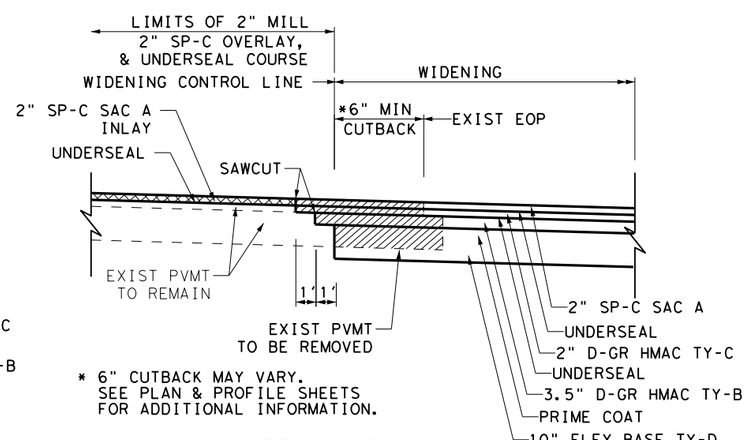
TACK COAT SHALL BE PLACED BETWEEN ALL HMAC LIFTS.



DETAIL "G"
EDGE OF PAVEMENT FRTG RD



DETAIL "H"
PROP SSTR ADJACENT TO NEW FRTG RD PVMT



* 6" CUTBACK MAY VARY.
SEE PLAN & PROFILE SHEETS
FOR ADDITIONAL INFORMATION.

DETAIL "I"
FRTG WIDENING DETAIL

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

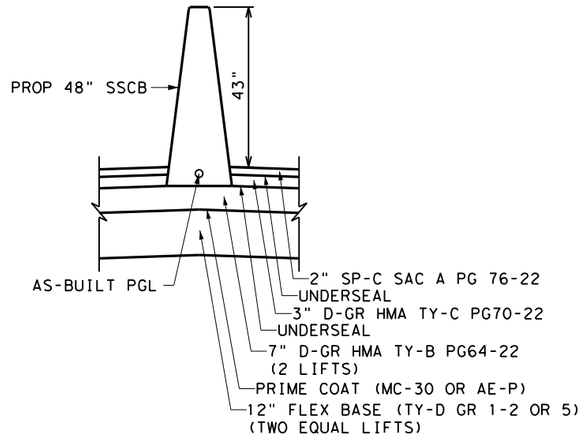
LJA Engineering, Inc.
FRN-F-1386

LP 1604
PROPOSED TYPICAL SECTION DETAILS

SHEET 1 OF 2

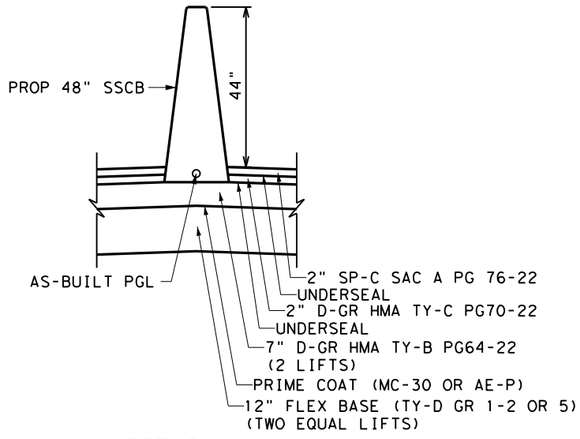
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:41 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY12.dgn



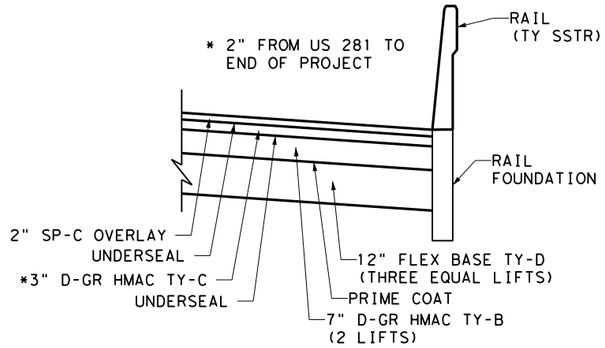
DETAIL "J"

PROP CENTER BARRIER (SSCB)
STONE OAK TO US 281



DETAIL "K"

PROP CENTER BARRIER (SSCB)
US 281 TO BULVERDE

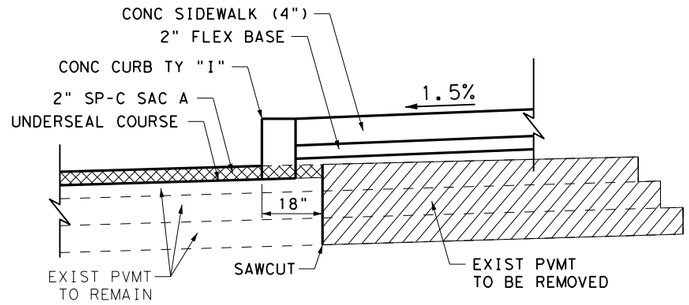


DETAIL "L"

PROP NEW CONSTRUCTION RAMP DETAIL FOR:
RWESIG, REXUS281, REESAN, RWXSAN,
REEUS281, REXRED, REXBUL, & RWEBUL

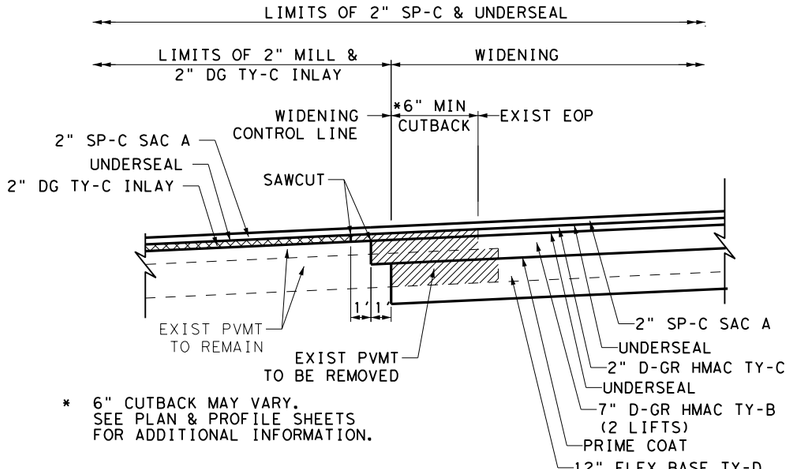
NOTE:

TACK COAT SHALL BE PLACED BETWEEN ALL HMAC LIFTS.



DETAIL "M"

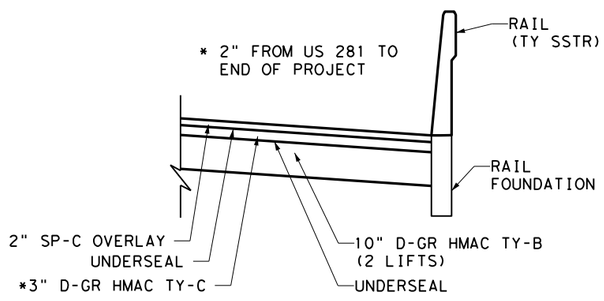
PROP CURB & SDWLK ON EXIST PVMT



* 6" CUTBACK MAY VARY.
SEE PLAN & PROFILE SHEETS
FOR ADDITIONAL INFORMATION.

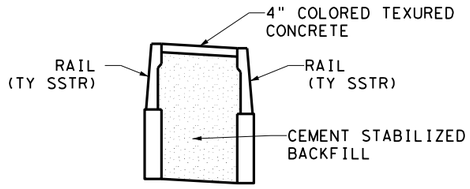
DETAIL "N"

MAIN LANE WIDENING DETAIL



DETAIL "P"

PROP NEW CONSTRUCTION RAMP DETAIL FOR:
RWEUS281, REEVOI, RWXHAR, RWXUS281, & RWERED



DETAIL "R"

RAIL FILL

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/27/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/27/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

PROPOSED TYPICAL SECTION DETAILS

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	

4:16:43 PM 2/27/2023
v:\bentley\dms\dms03426\130_GTY13.dgn

TRAFFIC CONTROL PLAN SEQUENCE OF WORK

1) THIS PROJECT WILL BE CONSTRUCTED IN (3) PHASES. BEFORE THE COMMENCEMENT OF EACH PHASE, INSTALL ADVANCE WARNING SIGNS, TEMPORARY SIGNS AND BARRICADES AS SHOWN ON THE PLANS AND/OR AS DIRECTED/APPROVED BY THE ENGINEER. DAILY LANE CLOSURES WILL BE USED IN ACCORDANCE WITH STATE TCP STANDARDS. DROP OFF CONDITIONS OF GREATER THAN 2" MUST HAVE A 3:1 SLOPE AT THE END OF EACH DAY, AS WELL AS THROUGHOUT THE PROJECT WHERE ACCESS TO ADJACENT PROPERTIES IS ALLOWED TO DRIVEWAYS AND SIDE STREETS.
2) PREPARING ROW / REMOVAL OF EXISTING ITEMS TO BE DONE ONLY IN AREAS WHERE WORK IS OCCURING, AS PER THE PHASES NOTED BELOW.
3) PLANING, SURFACE TREATMENTS AND OVERLAYS SHALL BE PERFORMED IN THE DIRECTION OF TRAFFIC. BEGIN SURFACE CONSTRUCTION ON HIGH SIDE OF ROAD TO AVOID WATER PONDING ISSUES.
4) THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF ITEM 7, "LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC" AND ITEM 502, "BARRICADES, SIGNS, AND TRAFFIC HANDLING", OF THE STANADARD SPECIFICATIONS, AND TO THE GENERAL NOTES
5) CONTRACTOR IS NOT PERMITTED TO WORK IN AREAS WITH ONGOING NON-JOINT BID UTILITY RELOCATIONS.
6) A BRIEF DESCRIPTION OF THESE PHASES ARE AS FOLLOWS:

PHASE 1 STEP 0: LP 1604 EB AND WB MAINLANE MILL AND OVERLAY

THE INTENT OF THIS PHASE IS TO MILL AND OVERLAY THE EXISTING MAINLANES FROM STATION 4401+00 TO STATION 4637+00 TO ELIMINATE EXISTING PAVEMENT MARKINGS AND ACCOMMODATE TRAFFIC DURING THE TCP.

1. PLACE ADVANCE WARNING SIGNS AND DMS MESSAGE BOARDS TWO WEEKS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
2. UTILIZE NIGHTLY CLOSURES AND TCP (6-1) THROUGH TCP (6-9) TO MILL AND OVERLAY THE EXISTING MAINLANES AND SHOULDERS FROM STONE OAK PARKWAY (STA 4405+76) TO EAST OF REDLAND ROAD (STA 4624+00) AS SHOWN IN THE PLANS. PERFORM PAVEMENT ELEVATION BUILDUP ALONG WB MAIN LANES AT US 281 OVERPASS AS SHOWN IN THE PLANS TO PREPARE THE ROADWAY FOR PROFILE RAISING. LANE CLOSURE ASSESSMENT FEES APPLY.
   a. REFER TO TCP PAVEMENT DETAILS FOR MILL AND OVERLAY THICKNESSES.
   b. MILL AND OVERLAY WIDTH FROM INSIDE PAVEMENT EDGE OR BARRIER TO EXTERIOR PAVEMENT EDGE OR BARRIER.
   c. MAINLANE MILL AND OVERLAY LIMITS END AT EXISTING RAMP AND DC PHYSICAL GORES.
   d. UTILIZE EDGE CONDITION TREATMENT GUIDELINES. MINIMIZE DROP-OFFS TO LESS THAN 2". SEE TEMPORARY PAVEMENT DETAIL SHEETS.
3. AFTER MILL AND OVERLAY, PLACE WORK ZONE PAVEMENT MARKINGS AS SHOWN IN PHASE 1 STEP 1.

PHASE 1 STEP 1: LP 1604 EB & WB TEMPORARY PAVEMENT, CONSTRUCTION ACCESS, AND LIMITED INTERIOR CONSTRUCTION

THE INTENT OF PHASE 1 STEP 1 IS TO CONSTRUCT INTERIOR PAVEMENT WIDENINGS IN THE CENTER MEDIAN AND TEMPORARY PAVEMENT TO BE UTILIZED AS CONSTRUCTION ACCESS (ENTRANCES AND EXITS) IMPROVING SAFETY IN LATER STEPS. PHASE 1 STEP 1 CONSTRUCTION INCLUDES MAIN LANE PROPOSED/TEMPORARY PAVEMENT, PROPOSED DRAINAGE, ITS, AND ILLUMINATION CONSTRUCTION.

1. PLACE SW3P EROSION CONTROL DEVICES ALONG PROJECT LIMITS AS SHOWN IN THE SW3P PLANS.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB. TYPE F CTB LOCATED IN THE INTERIOR MAINLANE MEDIAN MUST MEET CURRENT CRITERIA AS SPECIFIED IN THE GENERAL NOTES TO BE USED IN THE TCP. TYPE F TEMPORARY CTB CAN ONLY BE USED ALONG THE OUTSIDE OF THE MAINLANES OR INSIDE OF THE FRONTAGE ROADS.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 1 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	132

7:38:56 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

5. INSTALL PHASE 1 STEP 1 SMART WORK ZONE EQUIPMENT AS SHOWN IN THE SMART WORK ZONE LAYOUT PLANS.
6. PREPARE ROW AND BEGIN REMOVALS OF EXISTING ILLUMINATION AND MEDIAN BARRIER WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
7. CONSTRUCT PROPOSED HIGH MAST ILLUMINATION ALONG THE PROJECT EXTENTS WHICH DO NOT INTERFERE WITH EXISTING TRAFFIC. CONSTRUCTION INCLUDES BORING, TRENCHING, DRILL SHAFTS, AND HIGH MAST STRUCTURES. PROPOSED HIGH MAST MUST BE INSTALLED PRIOR TO DISCONNECTING AND REMOVING THE EXISTING MEDIAN ILLUMINATION. CONSTRUCT TEMPORARY ITS AND TEMPORARY ILLUMINATION. TMS CAN BE CONSTRUCTED ALONG WITH THE ILLUMINATION AS APPLICABLE.
8. SAWCUT THE EXISTING PAVEMENT.
9. CONSTRUCT INTERIOR MAINLANE PAVEMENT WIDENING NEAR STONE OAK OVERPASS AND STORM SEWER SYSTEM BD FROM EAST OF STONE OAK TO CULVERT BD. BEGIN DOWNSTREAM.
10. CONSTRUCT TEMPORARY WB DC ENTRANCE RAMP AS SHOWN IN THE PLANS (~STA 4433+00 TO ~STA 4441+00). REFER TO TCP CONSTRUCTING DETOUR LAYOUT TRDCNW1604.
11. CONSTRUCT PROPOSED PAVEMENT WIDENINGS EAST OF US 281 OVERPASS AS SHOWN IN THE PLANS. WIDENINGS SHOWN IN THE PLANS TO BE CONSTRUCTED PRIOR TO PHASE 1 STEP 2 INTERIOR WIDENING. PHASE 1 STEP 1 WIDENINGS ARE TO BE UTILIZED AS CONSTRUCTION ENTRANCES AND EXITS IN PHASE 1 STEP 2 TO IMPROVE CONTRACTOR SAFETY ENTERING AND EXITING THE WORK ZONE.
12. CONSTRUCT TEMPORARY PAVEMENT WIDENING AND TEMPORARY SPECIAL SHORING BETWEEN REDLAND ROAD AND BULVERDE ROAD AS SHOWN IN THE PLANS TO BE USED IN A LATER PHASE/STEP.
13. CONSTRUCT PROPOSED PAVEMENT SECTION AS SHOWN IN THE PLANS. DO NOT PLACE THE FINAL 2" SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.

LP 1604 BRIDGE SUPERSTRUCTURE CONSTRUCTION AT STONE OAK PARKWAY

14. CONSTRUCT TEMPORARY SHORING TRW01 AND TRW02 TO ACCESS STONE OAK PKWY
15. CONSTRUCT INTERIOR SUPERSTRUCTURE WIDENING. SUBSTRUCTURE IN PHASE 1 STEP 1 STAGE 1 MUST BE COMPLETED PRIOR TO SUPERSTRUCTURE CONSTRUCTION. UTILIZE PHASE 1 STEP 1 TRAFFIC AND PEDESTRIAN DETOURS AS REQUIRED.
    a. DEMO EXISTING BRIDGE RAIL AND BREAKBACK EXISTING DECK.
    b. CONSTRUCT ABUTMENT DRILL SHAFT AND CAPS.
    c. INSTALL BEAMS.
    d. INSTALL DECK.
    e. CONSTRUCT APPROACH SLABS.
    f. CONSTRUCT FINAL RAILINGS AND FINISHES.

PHASE 1 STEP 1 STAGE 1: LP 1604 EB & WB BRIDGE SUBSTRUCTURE AT STONE OAK PARKWAY

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE LP 1604 EB AND WB BRIDGE SUBSTRUCTURE COMPONENTS THAT IMPACT STONE OAK PARKWAY LANE CONFIGURATIONS. CONSTRUCTION INCLUDES BENT FOUNDATIONS, COLUMNS, CAPS, SIDEWALKS, AND RIPRAP IN THE INTERIOR ISLANDS. CONSTRUCTION CAN COINCIDE WITH OTHER PHASE 1 CONSTRUCTION. PHASE 1 STEP 1 STAGE 1 STONE OAK SUBSTRUCTURE CONSTRUCTION MUST BE COMPLETE PRIOR TO PHASE 1 STEP 1 SUPERSTRUCTURE CONSTRUCTION. CONTRACTOR TO COORDINATE TCP AND LANE CLOSURES WITH CORNERSTONE CHURCH TWO WEEKS PRIOR TO TRAFFIC SHIFT OR CLOSURES.

1. PLACE SW3P EROSION CONTROL DEVICES AT INLETS ALONG STONE OAK PARKWAY AND LP 1604 FRONTAGE ROAD.
2. PLACE TEMPORARY SIGNAGE AND ADJUST SIGNALS AS SHOWN IN THE PLANS. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. **BEGIN MILESTONE 1.**
4. UTILIZE TCP (6-1A) – 12 TO PLACE LPCB ALONG STONE OAK PKWY.
5. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
6. CONSTRUCT PROPOSED TRAFFIC SIGNAL COMPONENTS TO INCLUDE, SIGNAL POLES, MAST ARMS, TRENCHED AND BORED CONDUIT (BORE PITS), CABLES, AND OTHER SIGNAL DEVICES AS SHOWN IN THE PLANS AT STONE OAK PKWY. SIGNAL CONDUITS THAT CONFLICT WITH PROPOSED DRILL SHAFTS MUST BE REPLACED PRIOR TO BRIDGE CONSTRUCTION. POLICE OFFICERS AND TMA'S ARE REQUIRED DURING THE REPLACEMENT OF SIGNAL POLES. MAJOR SIGNAL WORK SHALL BE PERFORMED BETWEEN FRIDAY NIGHT AND SATURDAY MORNING TO REDUCE TRAFFIC IMPACTS.
7. CONSTRUCT PROPOSED LP 1604 INTERIOR AND EXTERIOR BRIDGE SUBSTRUCTURE COMPONENTS AS SHOWN ON THE PLANS.
    a. DRILL SHAFTS
    b. COLUMNS
    c. BENT CAPS
8. CONSTRUCT STM SEW BD. UTILIZE NIGHTLY CLOSURES, CUT AND RESTORE EXISTING PAVEMENT. TIE INTO EXIST GRATE INLET OR CONSTRUCT DOWNSTREAM PH 1 STEP 2 STM SEW BD PRIOR TO STONE OAK STM SEW CROSSING.
9. CONSTRUCT SIDEWALK, CURB, AND PEDESTRIAN RAMPS AS SHOWN ON THE PLANS. DO NOT RECONSTRUCT ISLAND AT NORTHEAST CORNER OF STONE OAK. NORTHEAST ISLAND WILL BE RECONSTRUCTED DURING PHASE 1 STEP 2 STAGE 0.
10. CONSTRUCT CONCRETE RIPRAP ON INTERIOR ISLANDS BETWEEN STONE OAK AND U-TURNS.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 2 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	133

7:39:00 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

REMOVE BARRIER, PLACE WORKZONE PAVEMENT MARKINGS, AND SIGNAL TIMINGS TO EXISTING CONDITIONS. **END MILESTONE** 1 ONCE TRAFFIC IS IN PRECONSTRUCTION CONFIGURATION.

PHASE 1 STEP 1 STAGE 2: LP 1604 INTERIOR AND EXTERIOR EB & WB BRIDGE SUBSTRUCTURE AT US 281

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE LP 1604 EB AND WB BRIDGE SUBSTRUCTURE COMPONENTS THAT IMPACT US 281 FRONTAGE ROAD LANE CONFIGURATIONS. CONSTRUCTION INCLUDES BENT FOUNDATIONS, COLUMNS, AND CAPS. THIS STAGE IS NOT INTENDED TO DISRUPT LP 1604 MAINLANE TRAFFIC.

1. PLACE SW3P EROSION CONTROL DEVICES AT INLETS ALONG US 281 AND LP 1604 FRONTAGE ROADS.
2. PLACE TEMPORARY SIGNAGE TO CLOSE INTERIOR NB AND SB US 281 FRONTAGE ROAD LANES AND ADJUST SIGNALS AS SHOWN IN THE PLANS. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS TO CLOSE INTERIOR NB AND SB US 281 FRONTAGE ROAD LANES. **BEGIN MILESTONE 2.**
4. UTILIZE TCP (6-1A) – 12 TO PLACE LPCB.
5. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED BENT CONSTRUCTION. SIGNAL CONDUITS MUST BE RELOCATED PRIOR TO FOUNDATION CONSTRUCTION.
6. CONSTRUCT PROPOSED TRAFFIC SIGNAL COMPONENTS TO INCLUDE, SIGNAL POLES, MAST ARMS, TRENCHED AND BORED CONDUIT (BORE PITS), CABLES, AND OTHER SIGNAL DEVICES AS SHOWN IN THE PLANS AT US 281. POLICE OFFICERS AND TMA'S ARE REQUIRED DURING THE REPLACEMENT OF SIGNAL POLES. MAJOR SIGNAL WORK SHALL BE PERFORMED BETWEEN FRIDAY NIGHT AND SATURDAY MORNING TO REDUCE TRAFFIC IMPACTS.
7. CONSTRUCT PROPOSED BRIDGE INTERIOR AND EXTERIOR SUBSTRUCTURE COMPONENTS AS SHOWN ON THE PLANS.
   a. DRILL SHAFTS
   b. COLUMNS
   c. BENT CAPS
8. CONSTRUCT SIDEWALK, CURB, AND PEDESTRIAN RAMPS AS SHOWN ON THE PLANS. TRAFFIC ISLAND IN NORTHEAST QUADRANT IS RECONSTRUCTED DURING PHASE 1 STEP 2 STAGE 0.
9. CONSTRUCT CONCRETE RIPRAP ON INTERIOR ISLANDS BETWEEN US 281 FRONTAGE ROADS AND U-TURNS.

REMOVE BARRIER, PLACE WORKZONE PAVEMENT MARKINGS, AND SIGNAL TIMINGS TO EXISTING CONDITIONS. **END MILESTONE** 2 ONCE TRAFFIC IS IN PRECONSTRUCTION CONFIGURATION.

PHASE 1 STEP 1 STAGE 3: LP 1604 WB BRIDGE EXTERIOR WIDENING OVER US 281

THE INTENT OF THIS STAGE IS TO WIDEN THE WB BRIDGE EXTERIOR OVER US 281. CONSTRUCTION INCLUDES BRIDGE SUPERSTRUCTURE COMPONENTS SUCH AS BEAMS, DECK, RAIL, APPROACH SLABS, RETAINING WALLS, TEMPORARY SHORING, AND APPROACH ROADWAY. CONTRACTOR SHALL COORDINATE WITH TXDOT AND THE LCP ABATEMENT CONTRACTOR PRIOR TO ANY STRUCTURAL WORK IN THIS STAGE.

1. PLACE SW3P EROSION CONTROL DEVICES AT INLETS ALONG US 281 AND LP 1604 FRONTAGE ROADS.
2. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS ALONG LP 1604 MAINLANES. PLACE ADVANCE SIGNAGE AS SHOWN IN THE PLANS SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCB.
4. SAWCUT EXISTING ROADWAY AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED WALL AND ROADWAY CONSTRUCTION.
5. CONSTRUCT RETAINING WALLS RW404, RW407, RW425 AND RW428 INCLUDING ASSOCIATIVE TEMPORARY SHORINGS (TPW404428 AND TPW407) AND PROPOSED STORM DRAIN INLETS AND OUTFALLS. SEE RETAINING WALL PLANS FOR DETAILS.
6. CONSTRUCT COS 19-1 and LRSA 20-1.

LP 1604 WB BRIDGE EXTERIOR SUPERSTRUCTURE CONSTRUCTION AT US 281

7. DEMO EXISTING BRIDGE RAIL AND BREAKBACK EXISTING BRIDGE DECK.
8. CONSTRUCT EXTERIOR SUPERSTRUCTURE WIDENING. SUBSTRUCTURE IN PHASE 1 STEP 1 STAGE 2 MUST BE COMPLETED PRIOR TO SUPERSTRUCTURE CONSTRUCTION. UTILIZE PHASE 1 STEP 1 STAGE 3 TRAFFIC AND PEDESTRIAN DETOURS AS REQUIRED.
   a. CONSTRUCT ABUTMENT DRILL SHAFT AND CAPS.
   b. INSTALL BEAMS.
   c. INSTALL DECK.
   d. CONSTRUCT APPROACH SLABS.
   e. CONSTRUCT FINAL RAILINGS AND FINISHES.

MAINTAIN BUFFER SPACE BETWEEN BACK OF CTB AND CONSTRUCTION JOINT AS SHOWN ON THE PLANS TO MINIMIZE VIBRATIONS FROM ADJACENT TRAFFIC.

PHASE 1 STEP 1 STAGE 4: LP 1604 WB BRIDGE INTERIOR WIDENING OVER US 281

THE INTENT OF THIS STAGE IS TO WIDEN THE WB BRIDGE INTERIOR OVER US 281. CONSTRUCTION INCLUDES BRIDGE SUPERSTRUCTURE COMPONENTS SUCH AS BEAMS, DECK, RAIL, APPROACH SLABS, TEMPORARY SHORING AND APPROACH ROADWAY. PHASE 1 STEP 1 STAGE 3 MUST BE COMPLETE PRIOR TO CONSTRUCTING PHASE 1 STEP 2 STAGE 4. CONTRACTOR SHALL COORDINATE WITH TXDOT AND THE LCP ABATEMENT CONTRACTOR PRIOR TO ANY STRUCTURAL WORK IN THIS STAGE.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO: F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 3 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	134

1. PLACE SW3P EROSION CONTROL DEVICES AT INLETS ALONG US 281 AND LP 1604 FRONTAGE ROADS.
2. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS ALONG LP 160 MAINLANES. PLACE ADVANCE SIGNAGE AS SHOWN IN THE PLANS SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
4. SAWCUT EXISTING ROADWAY AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED BRIDGE AND ROADWAY CONSTRUCTION.
5. CONSTRUCT TEMPORARY SHORING TO ALLOW FOR ABUTMENT CONSTRUCTION.

LP 1604 WB BRIDGE INTERIOR SUPERSTRUCTURE CONSTRUCTION AT US 281

6. DEMO EXISTING BRIDGE RAIL AND BREAKBACK EXISTING BRIDGE.
7. CONSTRUCT INTERIOR SUPERSTRUCTURE WIDENING. SUBSTRUCTURE IN PHASE 1 STEP 1 STAGE 2 MUST BE COMPLETED PRIOR TO SUPERSTRUCTURE CONSTRUCTION. UTILIZE PHASE 1 STEP 1 STAGE 4 TRAFFIC AND PEDESTRIAN DETOURS AS REQUIRED.
    a. CONSTRUCT ABUTMENT DRILL SHAFT AND CAPS.
    b. INSTALL BEAMS.
    c. INSTALL DECK.
    d. CONSTRUCT APPROACH SLABS.
    e. CONSTRUCT FINAL RAILINGS AND FINISHES.

MAINTAIN BUFFER SPACE BETWEEN BACK OF CTB AND CONSTRUCTION JOINT AS SHOWN ON THE PLANS TO MINIMIZE VIBRATIONS FROM ADJACENT TRAFFIC.

PHASE 1 STEP 2: LP 1604 EXTERIOR PAVEMENT CONSTRUCTION WEST OF US 281 AND INTERIOR PAVEMENT AND BRIDGE CONSTRUCTION EAST OF US 281

THE INTENT OF THIS STEP IS TO CONSTRUCT PROPOSED EXTERIOR IMPROVEMENTS WEST OF US 281 AND INTERIOR IMPROVEMENTS EAST OF US 281. CONSTRUCTION INCLUDES EXTERIOR WIDENING OF STONE OAK PKWY BRIDGES AND LP 1604 BRIDGE CONSTURCTION OVER MUD CREEK. CONSTRUCTION ALSO INCLUDES SUBSTRUCTURE COMPONENTS SUCH AS BENT FOUNDATIONS, COLUMNS, AND CAPS FOR GOLD CANYON TURNAROUND BRIDGE AND REDLAND ROAD TURNAROUND BRIDGES.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO MAJOR TRAFFIC SWITCH.
2. PLACE SW3P EROSION CONTROL DEVICES ALONG PROJECT LIMITS.
3. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING OSB, COSS, OR LRSA SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCTB. TYPE F CTB LOCATED IN THE INTERIOR MAINLANE MEDIAN MUST MEET CURRENT CRITERIA AS SPECIFIED IN THE GENERAL NOTES TO BE USED IN THE TCP. TYPE F TEMPORARY CTB CAN ONLY BE USED ALONG THE OUTSIDE OF THE MAINLANES OR INSIDE OF THE FRONTAGE ROADS.
6. INSTALL PHASE 1 STEP 2 SMART WORK ZONE EQUIPMENT AS SHOWN IN THE SMART WORK ZONE LAYOUT PLANS.
7. UTILIZE CONSTRUCTION ENTRANCE AND EXITS AS SHOWN IN THE PLANS.
8. PREPARE ROW, SAWCUT EXISTING ROADWAY AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
9. CONSTRUCT PROPOSED ILLUMINATION ALONG THE PROJECT THAT COINCIDES WITH PHASE 1 STEP 2 WHICH INCLUDES BORING, TRENCHING, AND DRILL SHAFTS.
10. INSTALL PROPOSED TMS CONDUIT, CABINETS, AND POLES AS SHOWN IN THE PLANS. TMS CAN BE CONSTRUCTED ALONG WITH THE ILLUMINATION AS APPLICABLE. REFER TO TMS LAYOUT NOTES FOR ADDITIONAL CONSTRUCTION INFORMATION.

EXTERIOR WIDENING WEST OF US 281

11. CONSTRUCT PROPOSED RETAINING WALLS AND ASSOCIATIVE TEMPORARY SHORING: RW401 (TPW401), RW402 (TPW402), R403 (TPW403), RW419 (TPW419), AND RW430 (TPW430).
    a. RW430 CONNECTS TO RW383 (CONSTRUCTED BY OTHERS).
12. CONSTRUCT THE PROPOSED DRAINAGE SYSTEMS BEGINNING DOWNSTREAM:
    a. SYSTEM BD ALONG THE WB AND EB FR FROM STONE OAK TO CULVERT BD. BORE ACROSS THE EXISTING WB FR NEAR STONE OAK PARKWAY TO SETUP FOR PHASE 1 STEP 2 STAGE 0 RIGHT TURN CONSTRUCTION. UTILIZE NIGHLTY CLOSURES, CUT AND RESTORE, AND PLATING TO CONSTRUCT SYSTEM BD ACROSS STONE OAK PKWY THROUGH LANES AND U-TURNS. UTILIZE PHASE 1 STEP 2 DETOURS.
    b. SYSTEM BD ALONG THE WB MLS. CLOSE WB DC ENTRANCE RAMP, UTILIZE NIGHTLY CLOSURES, CUT AND RESTORE PROPOSED DRAINAGE SYSTEM ACROSS EXISTING RAMP (~STA 4447+00).
    c. SYSTEM BF ALONG TH EB MLS (~STA 4460+00) THAT TIES INTO THE EXISTING ATER QUALITY POND.
13. CONSTRUCT PROPOSED PAVEMENT SECTION AS SHOWN IN THE PLANS. DO NOT PLACE THE FINAL 2" SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.
14. TEMPORARY PAVEMENT LOCATIONS TO MATCH EXISTING MAINLANE AND PROPOSED WIDENING CROSS SLOPES.
15. CONTRACTOR TO PROVIDE 8' WIDE OUTSIDE SHOULDERS WHEN CONSTRUCTION ALLOWS BETWEEN STA 4424+00 AND STA 4466+00.
16. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES UTILIZE APPLICABLE PHASE 1 STEP 2 DETOURS.
    a. COSSs: 13-1

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

Cullen L. Harper

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 4 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	135

7:39:07 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

b. LRSAs: 15-1 AND 15-3.

LP 1604 EXTERIOR SUPERSTRUCTURE BRIDGE CONSTRUCTION AT STONE OAK PARKWAY

17. BREAKBACK EXIST BRIDGES AT PHASE LINE SHOWN IN THE BRIDGE PLANS.
18. CONSTRUCT EXTERIOR SUPERSTRUCTURE WIDENING. SUBSTRUCTURE IN PHASE 1 STEP 1 STAGE 1 MUST BE COMPLETED PRIOR TO SUPERSTRUCTURE CONSTRUCTION. UTILIZE TRAFFIC DETOURS PHASE 1 STEP 2 DETOUR 1, 2, AND 3. UTILIZE APPLICABLE PEDESTRIAN DETOURS.
    a. INSTALL BEAMS.
    b. INSTALL DECK.
    c. CONSTRUCT APPROACH SLABS.
    d. CONSTRUCT FINAL RAILINGS AND FINISHES.

INTERIOR WIDENING EAST OF 281

19. CONSTRUCT TEMPORARY SHORING TRW03 AND TRW04 (INTERIOR ACCESS) AND/OR MUD CREEK TEMPORARY ACCESS ROAD (WBFR EXTERIOR ACCESS) FOR MUD CREEK BRIDGE CONSTRUCTION. SEE MUD CREEK TEMPORARY ACCESS ROAD PLAN SHEETS FOR DETAILS.
20. CONSTRUCT THE PROPOSED DRAINAGE SYSTEMS BEGINNING DOWNSTREAM:
    a. SYSTEM BH IN ML MEDIAN FROM EXISTING SYSTEM TIE-IN AT ~STA 4506+40 TO ~STA 4497+00.
    b. SYSTEM BH IN ML MEDIAN FROM CULVERT BH TIE-IN AT ~STA 4533+00 TO ~STA 4520+00. CONSTRUCT BORE PIT AND BORE ACROSS LP 1604 WB MLS FROM BH-40-MH TO BH-46-MH.
    c. SYSTEM BJ IN ML MEDIAN STARTING AT CULVERT BJ TIE-IN TO UPSTREAM SYSTEM LIMITS. CONSTRUCT BORE PIT AND BORE ACROSS LP 1604 WB MLS FROM BJ-02-MH-A TO BJ-37-J.
21. CONSTRUCT PROPOSED PAVEMENT SECTION AS SHOWN IN THE PLANS. DO NOT PLACE FINAL 2" SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.
    a. DO NOT CONSTRUCT CENTER BARRIER MEDIAN FROM DC COLUMN ~STA4486+15 TO 4495+00.
    b. CONSTRUCT CENTER MEDIAN FOR REMAINDER OF CONSTRUCTION AS SHOWN IN THE PLANS.
22. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES UTILIZE APPLICABLE PHASE 1 STEP 2 DETOURS.
    a. OSBs: 23-1 (INTERIOR ONLY), 24-1 (INTERIOR ONLY), 26-1 (INTERIOR ONLY), 26-2 (INTERIOR ONLY), 29-1, 31-1, and 33-1.
    b. COSSs: 27-1, 30-1, 31-1, and 33-1.
    c. LRSA 34-1.

LP 1604 BRIDGE CONSTRUCTION EAST OF US 281

23. CONSTRUCT GOLD CANYON WB TO EB U-TURN BRIDGE BENT 2 SUBSTRUCTURE.
    a. DRILL SHAFTS
    b. COLUMN
    c. BENT CAP
24. CONSTRUCT MUD CREEK INTERIOR WB BRIDGE WIDENING AND EB BRIDGE RECONSTRUCTION.
    a. BREAKBACK EXISTING BRIDGES AT PHASE LINE AS SHOWN IN THE BRIDGE PLANS. CONSTRUCT:
    b. DRILL SHAFTS
    c. COLUMNS
    d. BENT CAPS
    e. INSTALL BEAMS
    f. INSTALL DECK
    g. CONSTRUCT APPROACH SLABS
    h. CONSTRUCT FINAL RAILINGS AND FINISHES
25. CONSTRUCT REDLAND EB TO WB AND WB TO EB U-TURN BRIDGES BENT 2 SUBSTRUCTURES.
    a. DRILL SHAFTS
    b. COLUMNS
    c. BENT CAPS

PHASE 1 STEP 2 STAGE 0: LP 1604 WB FRONTAGE ROAD TO STONE OAK PARKWAY RIGHT TURN CONSTRUCTION

THE INTENT OF PHASE 1 STEP 2 STAGE 0 IS TO CONSTRUCT AN ADDITIONAL RIGHT TURN LANE AND SIDEWALK TO NB STONE OAK DRIVE AND RECONSTRUCT EXISTING ISLAND, RAMPS, AND SIGNAL. PHASE 1 STEP 2 STAGE 0 CONSTRUCTION INCLUDES FRONTAGE ROAD, DRAINAGE, SIDEWALK, INTERSECTION AND SIGNAL IMPROVEMENTS. CONTRACTOR TO COORDINATE TCP AND LANE CLOSURES WITH CORNERSTONE CHURCH TWO WEEKS PRIOR TO TRAFFIC SHIFT OR CLOSURES.

1. PLACE SW3P EROSION CONTROL DEVICES AT RIGHT TURN CONSTRUCTION LIMITS.
2. MAINTAIN ACCESS ON EXISTING SIDEWALK WHILE CONSTRUCTING NEW SIDEWALK AND CURB. MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION. UTILIZE SHORT TERM SIDEWALK CLOSURE WHEN MAKING FINAL TIE-IN. SWITCH TRAFFIC TO PROPOSED SIDEWALK PRIOR TO DEMOING EXISTING SIDEWALK.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. SETUP TRAFFIC DETOUR PRIOR TO CLOSING RIGHT TURN LANE.
4. UTILIZE TCP (6-1A) – 12 TO PLACE LOW PROFILE CTB TO CLOSE RIGHT TURN LANE TO STONE OAK PARKWAY. SETUP DETOUR PRIOR TO LANE CLOSURE **BEGIN MILESTONE 3.**
5. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS OF EXISTING CURB, SIDEWALK, AND DRAINAGE INFRASTRUCTURE. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 5 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	136

7:39:11 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

6. CONSTRUCT PROPOSED STORM DRAIN SYSTEM BD. DOWNSTREAM PHASE 1 STEP 2 STORM SEWER BD MUST BE COMPLETE PRIOR TO TYING IN PROPOSED STORM SEWER. FRONTAGE ROAD BORE CAN BE DONE PRIOR TO BEGINNING MILESTONE IF RIGHT TURN ACCESS IS MAINTAINED.
7. UTILIZE FULL-DEPTH HMA PAVEMENT TO CONSTRUCT FRONTAGE ROAD WIDENING DECEL AND RIGHT TURN LANE. REMOVE BARRIER AND OPEN MINIMUM OF ONE RIGHT TURN LANE TO TRAFFIC. **END MILESTONE 3**. MILESTONE ENDS ONCE A MINIMUM OF ONE RIGHT TURN LANE IS REOPENED TO TRAFFIC.
8. SETUP PEDESTRIAN DETOUR AND RECONSTRUCT NORTHEAST QUADRANT ISLAND INCLUDING CURBS, RAMPS, SIDEWALKS, AND RIPRAP. RIGHT TURN LANE MUST REMAIN OPEN DURING ISLAND CONSTRUCTION. UTILIZE NIGHTLY CLOSURES AS REQUIRED.
9. CONSTRUCT FINAL SIGNAL IMPROVEMENTS.

PHASE 1 STEP 2 STAGE 1: US 281 TO WB LP 1604 DC LANDING (ENTRANCE RAMP) CONSTRUCTION

THE INTENT OF PHASE 1 STEP 2 STAGE 1 IS TO CONSTRUCT THE PROPOSED US 281 TO WB LP 1604 DC LANDING. PHASE 1 STEP 2 STAGE 1 CONSTRUCTION INCLUDES MAINLANE, RAMP AND DRAINAGE CONSTRUCTION. PHASE 1 STEP 2 STAGE 1 CONSTRUCTION SHOULD BE CONDUCTED AND COMPLETED PRIOR TO THE CONSTRUCTION OF CONFLICTING WBML PAVEMENT FROM ~STA 4432+00 TO ~STA 4438+00.

1. PLACE SW3P EROSION CONTROL DEVICES AT DC LANDING.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. OPEN TEMPORARY RAMP CONSTRUCTED IN PHASE 1 STEP 1 AS SHOWN IN THE PLANS AND CLOSE EXISTING RAMP.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), AND CTB.
5. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS OF EXISTING ROADWAY AND DRAINAGE INFRASTRUCTURE.
6. CONSTRUCT PROPOSED STORM DRAIN SYSTEM BE. TIE INTO PREVIOUSLY PHASE 1 STEP 2 DRAINAGE CONSTRUCTION. CONSTRUCT SYSTEM THROUGH INLET BE-04-BI. STUB OUT AND PLUG PROPOSED SYSTEM TO LIMITS OF PROPOSED CONSTRUCTION. STORM SEWER TIE-IN AND COMPLETION TO OCCUR AT A FUTURE STAGE.
7. CONSTRUCT DC ENTRANCE AND MAINLANE WIDENING.

PHASE 1 STEP 2 STAGE 2: LP 1604 EB TO US 281 DC APPROACH (EXIT RAMP) CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT A PORTION OF THE EB LP 1604 TO US 281 DC APPROACH WHILE MAINTAINING ACCESS TO THE DC VIA A TEMPORARY RAMP. PHASE 1 STEP 2 STAGE 2 CONSTRUCTION INCLUDES MAINLANE, RAMP AND DRAINAGE CONSTRUCTION.

1. PLACE SW3P EROSION CONTROL DEVICES AT DC LANDING.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. OPEN TEMPORARY RAMP CONSTRUCTED IN PHASE 2 STEP 1 STAGE 2 AS SHOWN IN THE PLANS AND CLOSE EXISTING RAMP. **BEGIN MILESTONE 4.**
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), AND CTB.
5. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS OF EXISTING ROADWAY AND DRAINAGE INFRASTRUCTURE.
6. CONSTRUCT PROPOSED STORM DRAIN SYSTEM BE. TIE INTO CULVERT BE, CONSTRUCT INLET THROUGH BE-34-BI AND STUB OUT TO TIE INTO NEXT STAGE.
7. CONSTRUCT DC EXIT AND MAINLANE WIDENING.

PHASE 1 STEP 2 STAGE 3: LP 1604 EB TO US 281 DC APPROACH (EXIT RAMP) CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE REMAINING PORTION OF THE EB LP 1604 TO US 281 DC LANDING. PHASE 1 STEP 2 STAGE 3 CONSTRUCTION INCLUDES MAINLANE, RAMP AND DRAINAGE CONSTRUCTION. PHASE 1 STEP 2 STAGE 2 CONSTRUCTION MUST BE COMPLETE PRIOR TO BEGINNING STAGE 3 CONSTRUCTION.

1. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED TO DIRECT TRAFFIC TO RECENTLY OPENED DC EXIT. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
2. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. OPEN RECENTLY CONSTRUCTED DC APPROACH. **END MILESTONE 4**. DC AUXILIARY LANE MUST BE OPEN TO END MILESTONE 3.
3. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
4. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS OF EXISTING ROADWAY, TEMPORARY RAMP, AND DRAINAGE INFRASTRUCTURE.
5. CONSTRUCT PROPOSED STORM SEWER SYSTEM BE. TIE INTO PREVIOUS STAGE STUB OUT AND CONSTRUCT BE-33-BI.
6. CONSTRUCT DC EXIT AND MAINLANE WIDENING.
7. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES UTILIZE APPLICABLE PHASE 1 STEP 2 DETOURS.
   a. COSSs: 17-1 AND 19-1.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 6 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	137

7:39:14 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

PHASE 1 STEP 2 STAGE 4: WB LP 1604 TO US 281 DC APPROACH (EXIT RAMP) TEMPORARY PAVEMENT CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT TEMPORARY PAVEMENT WHICH WILL BE UTILIZED IN PHASE 2 DURING THE DC RAMP RECONSTRUCTION. PHASE 1 STEP 2 STAGE 4 CONSTRUCTION INCLUDES TEMPORARY PAVEMENT.

1. TEMPORARY SIGNAGE MUST BE PLACED TO CLOSE THE INTERIOR DC EXIT LANE. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
2. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
3. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
4. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS OF EXISTING BARRIER, MBGF, AND ROADWAY.
5. CONTRACTOR SHALL PROTECT AND AVOID SENSITIVE FEATURE S-C-7 LOCATED IN THIS AREA AND SHOWN ON THE PLANS.
6. CONSTRUCT TEMPORARY DC EXIT RAMP PAVEMENT. PLACE TEMPORARY PAVEMENT AT A STRAIGHT GRADE BETWEEN EXISTING PAVEMENT EDGES.

PHASE 1 STEP 2 STAGE 5: US 281 TO EB LP 1604 DC LANDING (ENTRANCE RAMP) TEMPORARY PAVEMENT CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT TEMPORARY PAVEMENT WHICH WILL BE UTILIZED IN PHASE 2 DURING THE DC RAMP RECONSTRUCTION. PHASE 1 STEP 2 STAGE 5 CONSTRUCTION INCLUDES TEMPORARY PAVEMENT CONSTRUCTION.

1. PLACE TCP WARNING SIGNS PRIOR TO CONSTRUCTION. SIGN PLACEMENT, RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
2. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
3. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
4. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS OF EXISTING RIPRAP AND ROADWAY. CONVERT STORM SEWER SYSTEM MH TO A STORM SEWER INLET. REMOVE PORTION OF STORMWATER PIPE AND STRUCTURE THAT CONFLICTS WITH PROPOSED TEMPORARY PAVEMENT AREA AS SHOWN IN THE DRAINAGE PLANS ~STA 4510+20.
5. CONSTRUCT TEMPORARY DC ENTRANCE RAMP PAVEMENT. TEMPORARY PAVEMENT TO MAINTAIN CROSS SLOPE OF EXISTING DC LANDING PAVEMENT.

PHASE 1 STEP 2 STAGE 6: US 281 TO LP 1604 WB ENTRANCE RAMP CONSTRUCTION

THE INTENT OF THIS STAGE IS TO RECONSTRUCT THE PROPOSED US 281 TO WB LP 1604 ENTRANCE RAMP. CONSTRUCTION INCLUDES PARTIAL DEMOLITION AND RECONSTRUCTION OF EXISTING RAMP. RAMP TRAFFIC WILL UTILIZE PHASE 1 STEP 2 STAGE 6 DETOUR 1 AS SHOWN ON THE PLANS. ADJACENT CONSTRUCTION PROJECT (CSJ 2452-02-128) MUST HAVE STONE OAK TO WB LP 1604 ENTRANCE RAMP OPEN AT ALL TIMES DURING THIS DETOUR. THE PROPOSED WB LP 1604 TO BLANCO EXIT RAMP (CSJ 2452-02-128) MUST BE CONSTRUCTED AND OPEN PRIOR TO BEGINNING THIS STAGE. PHASE 1 STEP 2 STAGE 0 CONSTRUCTION MUST BE COMPLETE AND DUAL RIGHTS AT STONE OAK OPEN PRIOR TO BEGINNING STAGE 6. COORDINATE WITH CSJ 2452-02-128 CONTRACTOR AND ENGINEER PRIOR TO BEGINNING STAGE.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO RAMP CLOSURE.
2. PLACE SW3P EROSION CONTROL DEVICES ALONG FRONTAGE ROAD NEAR RAMP RECONSTRUCTION.
3. PLACE ADVANCE WARNING SIGNS AND DETOUR SIGNAGE FOR THE US 281 TO WB LP 1604 ENTRANCE RAMP. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. CLOSE EXISTING RAMP. **BEGIN MILESTONE 5.**
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCB.
6. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED RAMP CONSTRUCTION AS SHOWN ON THE PLANS.
7. RECONSTRUCT EXISTING US 281 TO WB LP 1604 ENTRANCE RAMP. UTILIZE FULL-DEPTH HMA PAVEMENT AS SHOWN IN THE ROADWAY PLANS.

REMOVE BARRIER, PLACE WORKZONE PAVEMENT MARKINGS, AND OPEN ENTRANCE RAMP. **END MILESTONE 5.** PLACE WORK ZONE PAVEMENT MARKINGS AS SHOWN IN PHASE 2 STEP 1.

PHASE 1 STEP 2 STAGE 7: WB LP 1604 MAINLANE WIDENING ENTRANCE RAMP CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE LP 1604 WB MLS WHERE THE EXISTING ENTRANCE RAMP TIED IN. PHASE 1 STEP 2 STAGE 7 INCLUDES DEMOLITION OF EXISTING MAINLANE AND RAMP PAVEMENT, MAINLANE WIDENING, DRAINAGE, AND RAIL CONSTRUCTION. ADJACENT CONSTRUCTION PROJECT MUST HAVE PROPOSED BLANCO EXIT RAMP CONSTRUCTED AND OPEN PRIOR TO OPENING PHASE 1 STEP 2 STAGE 6 RAMP.

1. PLACE SW3P EROSION CONTROL DEVICES ALONG FRONTAGE ROAD NEAR ML RECONSTRUCTION.
2. PLACE ADVANCE WARNING SIGNS FOR NEW RAMP. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS TO REOPEN RAMP.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

Cullen L. Harper

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 7 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	138

7:39:18 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

5. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED MAINLANE WIDENING.
6. CONSTRUCT PROPOSED STORM DRAIN SYSTEM BD. TIE INTO PHASE 1 STEP 2 STORM DRAIN CONSTRUCTION.
7. WIDENING EXISTING MAINLANES.
8. CONSTRUCT PROPOSED MAINLANE AND RAMP RAILINGS AND FINISHES.

PHASE 2 STEP 1: LP 1604 INTERIOR CONSTRUCTION WEST OF US 281 AND LP 1604 EXTERIOR CONSTRUCTION EAST OF 281

THE INTENT OF THIS STEP IS TO CONSTRUCT THE INTERIOR MAINLANE PAVEMENT WEST OF US 281 AND THE EXTERIOR PROPOSED IMPROVEMENTS EAST OF US 281 WHILE MAINTAINING ACCESS TO EXISTING RAMPS. PHASE 2 STEP 1 INCLUDES BRIDGES, RETAINING WALLS, DRAINAGE, SIGNAGE, AND ROADWAY CONSTRUCTION.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO MAJOR PHASE 2 TRAFFIC SWITCH.
2. PLACE SW3P EROSION CONTROL DEVICES ALONG PROJECT LIMITS.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
5. PREPARE ROW AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
6. CONSTRUCT TEMPORARY PAVEMENT AND STORM DRAIN SYSTEM AS SHOWN IN THE TCP PLANS WEST OF US 281 OVERPASS (~STA 4470+00). TEMPORARY PAVEMENT TO MAINTAIN EXISTING PAVEMENT CROSS SLOPE. SEE DRAINAGE PLANS FOR DRAINAGE DETAILS.
7. INSTALL ITS CONDUIT, EQUIPMENT, AND RELOCATIONS AS SHOWN ON THE PLANS. PROPOSED POLE FOUNDATION AT GOLD CANYON ALONG EASTBOUND FRONTAGE ROAD SHALL BE CONSTRUCTED PRIOR TO ADJACENT SOIL NAIL RETAINING WALL WORK.

INTERIOR WIDENING WEST OF US 281

8. CONSTRUCT THE PROPOSED DRAINAGE SYSTEMS BEGINNING DOWNSTREAM:
   a. SYSTEM BD IN THE MAINLANE MEDIAN. BEGIN AT OUTFALL CONSTRUCT TO INLET BE-13-BI.
   b. CONSTRUCT INLETS BF-100 & 101. PLUG INLETS AS OUTFALL WILL NOT BE CONSTRUCTED UNTIL LATER STEP.
9. CONSTRUCT PROPOSED PAVEMENT SECTION AS SHOWN IN THE PLANS FROM STATION 4439+00 TO 4457+00. CONSTRUCT FINAL CENTER BARRIER ALONG SAME LIMITS. DO NOT PLACE THE FINAL 3" SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.
10. DEMO EXISTING CENTER BARRIER AND EXISTING PAVEMENT TO CONSTRUCT 20' TEMPORARY PAVEMENT FROM STATION 4457+00 TO 4471+00. STRAIGHT GRADE BETWEEN PAVEMENT EDGES.

EXTERIOR WIDENING EAST OF 281

11. CONSTRUCT THE PROPOSED DRAINAGE SYSTEMS BEGINNING DOWNSTREAM:
    d. SYSTEM BH ALONG THE EB MLS START AT SET OUTFALL ALONG EB MLS EAST OF GOLD CANYON TO BH-56-GI EAST OF US 281. UTILIZE NIGHTLY CLOSURE AND PHASE 2 STEP 2 STAGE 1A DETOUR FOR EBDC CLOSURE TO CONSTRUCT STORM SEWER ACROSS EB DC LANDING. CUT AND RESTORE EXISTING PAVEMENT AFTER INSTALLATION.
    e. SYSTEM BH UNDER WESTBOUND DC.
    f. SYSTEM BH ALONG WB MLS. TIE INTO PREVIOUSLY CONSTRUCTED BH-40 AND CONSTRUCT TO BH-34-J NEAR GOLD CANYON. STUB OUT FOR FUTURE CONNECTION LATER IN PHASE.
    g. SYSTEM BH ALONG WB MLS. TIE INTO EXISTING CULVERT NEAR WEST OF MUD CREEK AND CONSTRUCT TO BH-101-BI. CONSTRUCT LATERALS THAT CROSS EXISTING FRONTAGE UTILIZING NIGHTLY ONE LANE CLOSURES. MAINTAIN A MINIMUM OF ONE FR LANE OPEN AT ALL TIMES. CUT AND RESTORE EXISTING PAVEMENT. PLACE LOW PROFILE BARRIER IN SHOULDERS TO PROTECT EXISTING GUARD RAIL REMOVALS.
    h. SYSTEM BH ALONG WB MLS AND FR. CONSTRUCT OUTFALL EAST OF MUD CREEK TO BH 108-BI. CONSTRUCT LATERALS THAT CROSS EXISTING FRONTAGE UTILIZING NIGHTLY ONE LANE CLOSURES. MAINTAIN A MINIMUM OF ONE FR LANE OPEN AT ALL TIMES. CUT AND RESTORE EXISTING PAVEMENT. PLACE LOW PROFILE BARRIER IN SHOULDERS TO PROTECT EXISTING GUARD RAIL REMOVALS.
    i. SYSTEM BI ALONG THE EB AND WB MLS. BORE CROSS CULVERT NEAR STATION 4574+00 PRIOR TO CONSTRUCTING PARALLEL TRUNK LINES. CONSTRUCT SYSTEM BI ALONG EB ML FROM OUTFALL TO BI-39-BI. CONSTRUCT SYSTEM BI ALONG WB ML FROM OUTFALL TO BI-29-BI. PROVIDE STUB OUTS FOR FUTURE TIE INS EAST OF OUTFALL.
    j. SYSTEM BJ ALONG EB MLS. CONSTRUCT OUTFALL TO BJ-07-BI WEST OF THE OUTFALL AND TO BJ-54-GI EAST OF THE OUTFALL.
    k. SYSTEM BJ ALONG WB MLS. TIE INTO PREVIOUSLY CONSTRUCTED BJ-02-MH-A AND CONSTRUCT TO BJ-02-GI.
12. CONSTRUCT TEMPORARY SHORING AND PROPOSED RETAINING WALLS:
    a. SOIL NAIL RW408. START AT ~4516+80 TO END OF WALL WEST OF MUD CREEK.
    b. SOIL NAIL RW409. START AT ~4513+00 TO END OF WALL WEST OF MUD CREEK.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

Cullen L. Harper

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 8 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	139

7:39:22 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

c. SOIL NAIL RW417. START EAST OF MUD CREEK TO ~4553+00. CONSTRUCT TEMPORARY RETAINING WALL TRW05 TO LIMIT IMPACTS TO EXISTING RAMP.
d. MSE RW418 (TPW418). START AT ~4554+00 TO END OF WALL AT ~4569+00.
e. SOIL NAIL RW415. START AT ~4556+00 TO END OF WALL AT ~4569+50.
f. MSE RW416 (TPW416).
g. MSE RW422 (TPW422).
h. SOIL NAIL RW 424.

13. CONSTRUCT ML AND FRONTAGE ROAD WIDENINGS AS SHOWN IN THE PLANS.
14. CONSTRUCT PROPOSED PAVEMENT SECTION. DO NOT PLACE FINAL SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.
15. CONSTRUCT TEMPORARY BULVERDE TO WB LP 1604 ENTRANCE RAMP.
16. CONSTRUCT RAILINGS, MBGF AND FINISHES ALONG ML AND FRS EXCEPT AT LOCATION OF TEMPORARY RAMP.
17. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES UTILIZE APPLICABLE PHASE 2 STEP 1 DETOURS.
    a. OSBs: 23-1 (CONSTRUCT OSB PRIOR TO RW409 AND AVOID CONFLICT DURING SOIL NAIL INSTALLATION), 24-1 (CONSTRUCT RW408 PRIOR TO OSB), AND 26-1 (CONSTRUCT OSB PRIOR TO RW417 AND AVOID CONFLICT DURING SOIL NAIL INSTALLATION).
    b. COSSs: 21-2.

LP 1604 BRIDGE CONSTRUCTION EAST OF US 281

18. BREAKBACK EXIST BRIDGES AT PHASE LINE SHOWN IN THE BRIDGE PLANS.
19. CONSTRUCT GOLD CANYON SB ML EMERGENCY BRIDGE REPAIR AREA AS SHOWN IN THE TXDOT PLANS (INCLUDED IN THIS PLAN SET). UTILIZE PHASE 2 STEP 1 DETOURS WHEN CLOSING GOLD CANYON SB LANES AND/OR WHEN HANGING BEAMS OR POURING DECK. GOLD CANYON SB LANES TO BE CLOSED ONLY WHEN NECESSARY AND RE-OPENED WHEN SAFE TO DO SO. SEE TXDOT BRIDGE PLANS FOR ADDITIONAL INFORMATION.
    a. BEAMS
    b. DECK
    c. FINAL RAILINGS AND FINISHES
20. CONSTRUCT GOLD CANYON WB TO EB U-TURN BRIDGE ABUTMENTS AND SUPER STRUCTURE. UTILIZE PHASE 2 STEP 1 DETOURS 1 AND 2 DURING
    a. DRILL SHAFTS
    b. COLUMNS
    c. ABUTMENTS
    d. BEAMS
    e. DECK
    f. APPROACH SLABS
    g. FINAL RAILINGS AND FINISHES
21. CONSTRUCT MUD CREEK WB ML EXTERIOR WIDENING AND PEDESTRIAN BRIDGE.
    a. BREAKBACK EXISTING BRIDGES AT PHASE LINE AS SHOWN IN THE BRIDGE PLANS.
    b. DRILL SHAFTS
    c. COLUMNS
    d. BENT CAPS
    e. BEAMS
    f. DECK
    g. APPROACH SLABS
    h. FINAL RAILINGS AND FINISHES
22. CONSTRUCT REDLAND EB TO WB AND WB TO EB U-TURN BRIDGE ABUTMENTS AND SUPERSTRUCTURE
    a. DRILL SHAFTS
    b. COLUMNS
    c. BENT CAPS
    d. ABUTMENTS
    e. BEAMS
    f. DECK
    g. APPROACH SLABS
    h. FINAL RAILINGS AND FINISHES

GOLD CANYON RD SIGNAL IMPROVEMENTS

1. CONSTRUCT PROPOSED TRAFFIC SIGNAL COMPONENTS TO INCLUDE, SIGNAL POLES (PLACED ON EXISTING SIGNAL POLE FOUNDATIONS), MAST ARMS, TRENCHED AND BORED CONDUIT (BORE PITS), CABLES, AND OTHER SIGNAL DEVICES AS SHOWN IN THE PLANS AT GOLD CANYON RD. POLICE OFFICERS AND TMA'S ARE REQUIRED DURING THE REPLACEMENT OF SIGNAL POLES. MAJOR SIGNAL WORK SHALL BE PERFORMED BETWEEN FRIDAY NIGHT AND SATURDAY MORNING TO REDUCE TRAFFIC IMPACTS.

REDLAND RD SIGNAL IMPROVEMENTS

1. CONSTRUCT PROPOSED TRAFFIC SIGNAL COMPONENTS TO INCLUDE, SIGNAL POLE (REPLACEMENT OF SHORTER POLE WITH A TALLER POLE), MAST ARMS, TRENCHED AND BORED CONDUIT (BORE PITS), CABLES, AND OTHER SIGNAL DEVICES AS SHOWN IN THE PLANS AT GOLD CANYON RD. POLICE OFFICERS AND TMA'S ARE REQUIRED DURING THE REPLACEMENT OF SIGNAL POLES. MAJOR SIGNAL WORK SHALL BE PERFORMED BETWEEN FRIDAY NIGHT AND SATURDAY MORNING TO REDUCE TRAFFIC IMPACTS.

PHASE 2 STEP 1 STAGE 1: US 281 TO LP 1604 EB ENTRANCE RAMP

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE PROPOSED US 281 TO LP 1604 EB ENTRANCE RAMP. THIS RAMP MUST BE CONSTRUCT PRIOR TO THE CLOSURE OF THE VOIGT DRIVE TO LP 1604 EB ENTRANCE RAMP IS CLOSE.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 9 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	140

7:39:25 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

1. PLACE SW3P EROSION CONTROL DEVICES TO COVER EXISTING DRAINAGE STRUCTURES NEAR RAMP AS SHOWN IN THE PLANS.
2. PLACE ADVANCE WARNING SIGNS AND ADJUST MAINLANE SIGNAGE TO CLOSE THE EXISTING LP 1604 TO GOLD CANYON EXIT RAMP. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCB.
5. BEGIN REMOVALS AND SAWCUT THE EXISTING PAVEMENT WHICH COINCIDE WITH PROPOSED RAMP CONSTRUCTION AS SHOWN ON THE PLANS.
6. CONSTRUCT PROPOSED ENTRANCE RAMP AS SHOWN IN THE PLANS.

PHASE 2 STEP 1 STAGE 2: LP 1604 EBML BRIDGE OVER US 281 WIDENING AND REDECKING AND TEMPORARY EB LP 1604 TO REDLAND RD EXIT RAMP

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE LP 1604 EB BRIDGE OVER US 281 AND THE TEMPORARY EB LP 1604 TO REDLAND RD EXIT RAMP CONSTRUCTION. THE EXISTING GOLD CANYON TO EB LP 1604 ENTRANCE RAMP CAN BE CLOSED FOR TEMPORARY RAMP CONSTRUCTION ONCE THE PHASE 2 STEP 1 STAGE 1 ENTRANCE RAMP IS CONSTRUCTED. TRAFFIC IS SHIFTED SUCH THAT LP 1604 EB AND WB TRAFFIC UTILIZE THE WB BRIDGE OVER US 281. CONTRACTOR SHALL COORDINATE WITH TXDOT AND THE LCP ABATEMENT CONTRACTOR PRIOR TO ANY STRUCTURAL WORK IN THIS STAGE.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO TRAFFIC SHIFT.
2. PLACE SW3P EROSION CONTROL DEVICES NEAR THE US 281 OVERPASS.
3. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LP CTB.
6. PREPARE ROW AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS. DEMO OF EXISTING GOLD CANYON ENTRANCE RAMP CAN BEGIN ONCE US 281 TO EB LP 1604 ENTRANCE RAMP IS CONSTRUCTED AND OPEN TO TRAFFIC.
7. CONSTRUCT PROPOSED DRAINAGE SYSTEMS BEGINNING DOWNSTREAM:
   a. SYSTEM BF BETWEEN THE EB ML AND FR WEST OF US 281. TIE INTO EXISTING SYSTEM AND CONSTRUCT TO BF-94-GI.
   b. SYSTEM BF BETWEEN THE EB ML AND FR EAST OF US 281. TIE INTO EXISTING SYSTEM AND CONSTRUCT TO PROPOSED GRATE INLET.
   c. TEMPORARY DRAINAGE SYSTEM ACROSS TEMPORARY RAMP AS SHOWN IN THE DRAINAGE PLANS.
8. CONSTRUCT TEMPORARY SHORING AND PROPOSED RETAINING WALLS.
   a. SOIL NAIL RW405.
   b. SOIL NAIL RW406.
   c. SOIL NAIL RW420.
   d. SOIL NAIL RW426.
   e. SOIL NAIL RW427.
   f. SOIL NAIL RW429.
9. CONSTRUCT ML AND FRTG ROAD WIDENINGS AS SHOWN IN THE PLANS.
10. CONSTRUCT TEMPORARY EB LP 1604 TO REDLAND RD EXIT RAMP.
11. PLACE FINAL RAILINGS AND FINISHES.
12. CONSTRUCT PROPOSED PAVEMENT SECTION. DO NOT PLACE FINAL SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.
13. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES UTILIZE APPLICABLE PHASE 2 STEP 1 DETOURS.
    a. COSSs: 21-1.

LP 1604 EB ML BRIDGE CONSTRUCTION

14. REMOVE EXIST DECK. USE PHASE 2 STEP 1 STAGE 2 DETOURS 1,2, AND 3.
15. CONSTRUCT US 281 ABUTMENT WIDENINGS AND SUPERSTRUCTURE. UTILIZE PHASE 2 STEP 1 STAGE 2 DETOURS 1,2, AND 3..
    a. DRILL SHAFTS
    b. COLUMNS
    a. ABUTMENTS
    b. BEAMS
    c. DECK
    d. APPROACH SLABS
    e. FINAL RAILINGS AND FINISHES

PHASE 2 STEP 1 STAGE 3: VOIGT DR TO LP 1604 EB ENTRANCE RAMP CONSTRUCTION

THE INTENT OF THIS STAGE IS TO RECONSTRUCT THE PROPOSED VOIGT DR TO EB LP 1604 ENTRANCE RAMP. CONSTRUCTION INCLUDES PARTIAL DEMOLITION AND RECONSTRUCTION OF EXISTING RAMP. RAMP TRAFFIC WILL UTILIZE PHASE 2 STEP 1 STAGE 3 DETOUR 1 AS SHOWN ON THE PLANS.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO RAMP CLOSURE.
2. PLACE SW3P EROSION CONTROL DEVICES ALONG FRONTAGE ROAD NEAR RAMP RECONSTRUCTION.
3. PLACE ADVANCE WARNING SIGNS AND DETOUR SIGNAGE FOR THE VOIGT DR TO BE LP 1604 ENTRANCE RAMP. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. CLOSE EXISTING RAMP. **BEGIN MILESTONE 6**.
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCB.
6. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED RAMP CONSTRUCTION AS SHOWN ON THE PLANS.
7. CONSTRUCT BF DRAINAGE INLETS ALONG PROPOSED RAMP.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 10 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	141

7:39:29 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

8. RECONSTRUCT EXISTING VOIGT DR TO EB LP 1604 ENTRANCE RAMP. UTILIZE FULL-DEPTH HMA PAVEMENT AS SHOWN IN THE ROADWAY PLANS.
9. WIDEN EXISTING MAINLANES AND FRONTAGE ROADS.
10. PLACE WORKZONE PAVEMENT MARKINGS AS SHOWN IN PHASE 2 STEP 1 OR PHASE 2 STEP 1 STAGE 4 AND OPEN RAMP TO END MILESTONE. (**END MILESTONE 6**)

PHASE 2 STEP 1 STAGE 4: LP 1604 WBML BRIDGE OVER US 281 RE-DECKING

THE INTENT OF THIS STAGE IS TO COMPLETE THE REDECKING OF THE LP 1604 WB BRIDGE OVER US 281. TRAFFIC IS SHIFTED SUCH THAT LP 1604 EB AND WB TRAFFIC UTILIZE THE RECENTLY CONSTRUCTED EB BRIDGE OVER US 281. CONTRACTOR SHALL COORDINATE WITH TXDOT AND THE LCP ABATEMENT CONTRACTOR PRIOR TO ANY STRUCTURAL WORK IN THIS STAGE.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO TRAFFIC SHIFT.
2. PLACE SW3P EROSION CONTROL DEVICES NEAR WB US 281 OVERPASS.
3. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
6. PREPARE ROW AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
7. CONSTRUCT ML WIDENINGS AS SHOWN IN THE PLANS.
8. CONSTRUCT PROPOSED PAVEMENT SECTION. DO NOT PLACE FINAL SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.

LP 1604 WB ML BRIDGE CONSTRUCTION

9. SAWCUT AND REMOVE EXISTING DECK. UTILIZE DETOURS PHASE 2 STEP 1 STAGE 4 DETOURS 1, 2, AND 3.
10. REDECK US 281 OVERPASS. UTILIZE PHASE 2 STEP 1 STAGE 4 DETOURS 1, 2, AND 3.
    f. DECK
    g. APPROACH SLABS
    h. FINAL RAILINGS AND FINISHES

PHASE 2 STEP 1 STAGE 5: WB LP 1604 TO STONE OAK PARKWAY EXIT RAMP CONSTRUCTION

THE INTENT OF THIS STAGE IS TO RECONSTRUCT THE PROPOSED WB LP 1604 TO STONE OAK PARKWAY EXIT RAMP. CONSTRUCTION INCLUDES PARTIAL DEMOLITION AND RECONSTRUCTION OF EXISTING RAMP. RAMP TRAFFIC WILL UTILIZE PHASE 2 STEP 1 STAGE 5 DETOUR 1 AS SHOWN ON THE PLANS.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO RAMP CLOSURE.
2. PLACE SW3P EROSION CONTROL DEVICES ALONG FRONTAGE ROAD NEAR RAMP RECONSTRUCTION.
3. PLACE ADVANCE WARNING SIGNS AND DETOUR SIGNAGE FOR THE WB LP 1604 TO STONE OAK EXIT RAMP. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. CLOSE EXISTING RAMP. **BEGIN MILESTONE 7**.
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCB.
6. SAWCUT EXISTING PAVEMENT AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED RAMP CONSTRUCTION AS SHOWN ON THE PLANS.
7. CONSTRUCT BF DRAINAGE INLETS ALONG PROPOSED RAMP.
8. RECONSTRUCT EXISTING WB LP 1604 TO STONE OAK EXIT RAMP. UTILIZE FULL-DEPTH HMA PAVEMENT AS SHOWN IN THE ROADWAY PLANS.
9. WIDEN EXISTING FRONTAGE ROADS.
10. PLACE FINAL RAILINGS AND FINISHES.
11. PLACE WORKZONE PAVEMENT MARKINGS AS SHOWN IN PHASE 2 STEP 2 OR PHASE 2 STEP 1 STAGE 4 AND OPEN RAMP TO END MILESTONE. (**END MILESTONE 7**)

PHASE 2 STEP 2: INTERIOR MEDIAN CONSTRUCTION NEAR US 281 AND EASTBOUND EXIT RAMP CONSTRUCTION

THE INTENT OF THIS STEP IS TO COMPLETE THE INTERIOR MEDIAN BARRIER NEAR THE US 281 OVERPASS AND TO COMPLETE EASTBOUND EXIT RAMP CONSTRUCTION EAST OF US 281. PHASE 2 STEP 1 INCLUDES BRIDGES, RETAINING WALLS, DRAINAGE, SIGNAGE, AND ROADWAY CONSTRUCTION.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO MAJOR PHASE 2 TRAFFIC SWITCH.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. PLACE SW3P EROSION CONTROL DEVICES ALONG PROJECT LIMITS.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
6. PREPARE ROW AND BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.

INTERIOR LP 1604 CONSTRUCTION WEST AND EAST OF US 281. INTERIOR MEDIAN CONSTRUCTION CAN BEGIN ONCE US 281 REDECKING IS COMPLETE.

7. CONSTRUCT THE PROPOSED DRAINAGE SYSTEM BF BEGINNING DOWNSTREAM AT INLET BF-25-GI TO TIE INTO PREVIOUSLY CONSTRUCTED INLET NEAR BF-101-BI.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 11 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	142

7:39:32 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

8. CONSTRUCT PROPOSED PAVEMENT SECTION AND MEDIAN BARRIER AS SHOWN IN THE PLANS. DO NOT PLACE THE FINAL 3" SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.
    a. STATION 4457+00 TO THE WESTERN ABUTMENT OF THE LP 1604 OVERPASS AT US 281.
    b. EASTERN LP 1604 AT US 281 ABUTMENT TO STATION 4495+00.

EASTBOUND LP 1604 EXIT RAMP CONSTRUCTION. RAMP RECONSTRUCTION CAN BEGIN ONCE TEMPORARY EB LP 1604 TO REDLAND RD EXIT RAMP CONSTRUCTION IS COMPLETE.

9. CONSTRUCT THE PROPOSED DRAINAGE SYSTEMS BEGINNING DOWNSTREAM
    a. SYSTEM BH AND OUTFALL WEST OF MUDCREEK.
    b. SYSTEM BH. START AT MUD CREEK EASTERN OUTFALL TO INLET BH-117-BI.
    c. SYSTEM BI ALONG EB MAINLANE AND RAMP CONSTRUCTION EAST OF REDLAND RD.
    d. SYSTEM BJ. START AT PREVIOUS STUB OUT NEAR INLET BJ-44-BI AND CONSTRUCT TO BJ-O4-RW.
9. CONSTRUCT TEMPORARY SHORING AND PROPOSED RETAINING WALLS:
    a. SW RW410.
    b. SW RW413.
    c. SOIL NAIL RW414
    d. COMPLETE REMAINDER OF SOIL NAIL RW415.
    e. SOIL NAIL RW416.
    f. SOIL NAIL RW421.
10. WIDEN MAINLANES FROM STATION 4535+00 TO MUD CREEK AND FROM MUD CREEK TO STATION 4556+00.
11. CONSTRUCT PROPOSED EB LP 1604 TO REDLAND RD EXIT RAMP.
12. CONSTRUCT MAINLANES FROM 4563+00 TO 4587+00.
13. CONSTRUCT INTERIOR OF EB LP 1604 TO BULVERDE RD EXIT RAMP.
14. CONSTRUCT PROPOSED PAVEMENT SECTION AND MEDIAN BARRIER AS SHOWN IN THE PLANS. DO NOT PLACE THE FINAL SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.
15. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES UTILIZE APPLICABLE PHASE 2 STEP 1 DETOURS.
    a. OSBs: 26-2 (CONSTRUCT OSB PRIOR TO RW414 AND AVOID CONFLICT DURING SOIL NAIL INSTALLATION).

LP 1604 EB ML AT MUD CREEK BRIDGE CONSTRUCTION. BRIDGE RECONSTRUCTION CAN BEGIN ONCE TEMPORARY EB LP 1604 TO REDLAND RD EXIT RAMP CONSTRUCTION IS CONSTRUCTED AND OPEN.

16. DEMO EXISTING MUD CREEK BRIDGE.
17. CONSTRUCT LP 1604 EB BRIDGE OVER MUD CREEK
    a. DRILL SHAFTS
    b. COLUMNS
    i. ABUTMENTS
    j. BEAMS
    k. DECK
    l. APPROACH SLABS
    m. FINAL RAILINGS AND FINISHES
18. CONSTRUCT PEDESTRIAN BRIDGE OF MUD CREEK.

PHASE 2 STEP 2 STAGE 1: US 281 TO EB LP 1604 EB DC LANDING

THE INTENT OF THIS STAGE IS TO RECONSTRUCT THE US 281 TO EB LP 1604 DC LANDING WHILE MAINTAINING ONE LANE OF TRAFFIC ON THE EXISTING DC.

1. PLACE SW3P EROSION CONTROL DEVICES NEAR DC LANDING RECONSTRUCTION.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. (**BEGIN MILESTONE 8**)
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.
5. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
6. CONSTRUCT PROPOSED DRAINAGE SYSTEM BH. TIE INTO BH-67-BI AND CONSTRUCT TO BH-69-BI.
7. SAWCUT THE EXISTING PAVEMENT FOR PROPOSED RECONSTRUCTION AND WIDENING.
8. CONSTRUCT FINAL RAILINGS AND FINISHES.

PHASE 2 STEP 2 STAGE 1A: US 281 TO EB LP 1604 DC LANDING RECONSTRUCTION

THE INTENT OF THIS STAGE IS TO COMPLETE RECONSTRUCTION OF THE US 281 TO EB LP 1604 DC LANDING WHILE SHIFTING TRAFFIC TO THE PREVIOUSLY CONSTRUCTED EXTERIOR DC LANDING. BEFORE PHASE 2 STEP 2 STAGE 2 TRAFFIC CAN BE SHIFTED THE PROPOSED EB LP 1604 TO REDLAND RD MUST BE CONSTRUCTED AND OPEN.

1. PLACE SW3P EROSION CONTROL DEVICES ALONG PREVIOUS STAGE CONSTRUCTED STORM DRAIN.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 12 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	143

7:39:36 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

5. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
6. RECONSTRUCT THE INTERIOR PAVEMENT OF THE DC LANDING AND COMPLETE MAINLANE WIDENING.
7. CONSTRUCT FINAL DC AND ML RAILINGS AND FINISHES.
8. RESTRIPE RAMP AS SHOWN IN PHASE 2 STEP 1 AND REOPEN TO TRAFFIC. (**END MILESTONE 8**).

PHASE 2 STEP 2 STAGE 2: RECONSTRUCTION OF WB LP 1604 TO US 281 EXIT RAMP

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE PROPOSED WB LP 1604 TO US 281 EXIT RAMP. CONSTRUCTION INCLUDES DEMOLITION AND RECONSTRUCTION OF THE EXISTING RAMP. RAMP RECONSTRUCTION CANNOT COINCIDE WITH ANY OTHER WB ENTRANCE OR EXIT RAMP CLOSURES.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO RAMP CLOSURE.
2. PLACE SW3P EROSION CONTROL DEVICES ALONG MAINLANES AND FRONTAGE ROAD INLETS NEAR RAMP.
3. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. CLOSE EXISTING RAMP. (**BEGIN MILESTONE 9**)
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCB.
6. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED RAMP RECONSTRUCTION AS SHOWN ON THE PLANS.
7. RECONSTRUCT EXISTING WB LP 1604 TO US 281 EXIT RAMP. UTILIZE FULL-DEPTH HMA PAVEMENT AS SHOWN IN THE ROADWAY PLANS.
8. RESTRIPE RAMP AS SHOWN IN PHASE 2 STEP 1 AND REOPEN TO TRAFFIC. (**END MILESTONE 9**).

PHASE 2 STEP 2 STAGE 3: WB LP 1604 TO US 281 DC APPROACH AND RW408 CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT WB LP 1604 TO US 281 DC APPROACH WHILE MAINTAINING ONE LANE OF TRAFFIC ON THE EXISTING APPROACH. PHASE 2 STEP 2 STAGE 3 CONSTRUCTION INCLUDES SOIL NAIL WALL, DRAINAGE, ITS AND ROADWAY CONSTRUCTION. CONSTRUCTION CANNOT COINCIDE WITH PHASE 2 STEP 2 STAGE 2 CONSTRUCTION BUT CAN COINCIDE WITH ANY OTHER PHASE 2 CONSTRUCTION.

1. PLACE SW3P EROSION CONTROL DEVICES NEAR RAMPALONG PROJECT LIMITS.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB. **BEGIN MILESTONE 10** ONCE RAMP SECTION IS REDUCED WITH BARRIERS.
5. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
6. RELOCATE EXISTING CCTV POLE AND INSTALL PROPOSED TMS CONDUIT AND CABINETS AS SHOWN ON THE PLANS. TMS CAN BE CONSTRUCTED ALONG WITH THE ILLUMINATION AS APPLICABLE. REFER TO TMS LAYOUT NOTES FOR ADDITIONAL CONSTRUCTION INFORMATION DURING PHASE 2.
7. CONSTRUCT DRAINAGE SYSTEM BH AND LATERALS CROSSING THE EXISTING DC APPROACH PAVEMENT. UTILIZE NIGHTLY CLOSURES AND PHASE 2 STEP 2 STAGE 3 DETOUR TO CONSTRUCT PROPOSED DRAINAGE LATERALS. ADJUST BARRIER AT JUNCTION BOX AND INSTALL PROP STM SEW PRIOR TO EXTERIOR LANE CLOSURES. CUT AND RESTORE EXISTING PAVEMENT UP TO CONST PHASE LINE. REPLACE EXISTNG BARRIER AND OPEN INTERIOR LANE. CLOSE EXTERIOR LANE AS SHOWN IN THE TCP TO COMPLETE STM SEW CONSTRUCTION.
8. CONSTRUCT SOIL NAIL WALL RW408. UTILIZE NIGHTLY CLOSURES AND PHASE 2 STEP 2 STAGE 3 DETOUR 1 DURING SOIL NAIL WALL CONSTRUCTION WHEN SOIL NAIL INSTALLATION REQUIRES SOIL NAILS TO OVERHANG EXISTING TRAFFIC.
9. SAWCUT THE EXISTING PAVEMENT FOR PROPOSED ML WIDENING AND RAMP RECONSTRUCTION AS SHOWN IN THE PLANS.
10. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES.
    a. COSSs: 23-1 (CONSTRUCT OSB PRIOR TO RW408 AND AVOID CONFLICT DURING SOIL NAIL INSTALLATION. FORM CONCRETE FLUME AROUND OSB COLUMN).
11. CONSTRUCT RAILINGS AND FINAL FINISHES.

PHASE 2 STEP 2 STAGE 4: WB LP 1604 TO US 281 DC APPROACH CONSTRUCTION

THE INTENT OF THIS STAGE IS TO COMPLETE RECONSTRUCTION OF THE WB LP 1604 TO US 281 DC APPROACH WHILE SHIFTING TRAFFIC TO THE PREVIOUSLY CONSTRUCTED EXTERIOR DC PAVEMENT. CONSTRUCTION CANNOT COINCIDE WITH PHASE 2 STEP 2 STAGE 2 CONSTRUCTION BUT CAN COINCIDE WITH ANY OTHER PHASE 2 CONSTRUCTION.

1. PLACE SW3P EROSION CONTROL DEVICES ALONG PREVIOUS STAGE CONSTRUCTED STORM DRAIN.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS) AND CTB.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED
PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 13 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	144

7:39:40 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

5. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
6. RECONSTRUCT THE INTERIOR PAVEMENT OF THE DC APPROACH AND COMPLETE MAINLANE WIDENING.
7. CONSTRUCT FINAL DC AND ML RAILINGS AND FINISHES.
8. RESTRIPE RAMP AS SHOWN IN PHASE 2 STEP 1 AND REOPEN TO TRAFFIC. (**END MILESTONE 10**).

PHASE 2 STEP 2 STAGE 5: REDLAND RD TO WB LP 1604 ENTRANCE RAMP CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE PROPOSED REDLAND RD TO WB LP 1604 ENTRANCE RAMP. CONSTRUCTION INCLUDES DEMOLITION AND RECONSTRUCTION OF EXISTING RAMP. BULVERDE AND US 281 TO WB LP 1604 ENTRANCE RAMPS MUST BE OPEN AT ALL TIMES DURING THIS STAGE.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO RAMP CLOSURE.
2. PLACE SW3P EROSION CONTROL DEVICES ALONG RAMP DRAINAGE STRUCTURES CONSTRUCTED PREVIOUSLY.
3. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. CLOSE EXISTING RAMP (**BEGIN MILESTONE 11**)
5. UTILIZE TCP (6-1A) – 12 TO PLACE CTB AND LPCB.
6. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED RAMP RECONSTRUCTION. AS SHOWN ON THE PLANS.
7. RECONSTRUCT EXISTING REDLAND RD TO WB LP 1604 ENTRANCE RAMP. UTILIZE FULL-DEPTH HMA PAVEMENT AS SHOWN IN THE ROADWAY PLANS. PLACE WORK ZONE PAVEMENT MARKINGS AS SHOWN IN PHASE 2 STEP 2 STAGE 6 AND REOPEN RAMP. (**END MILESTONE 11**)

PHASE 2 STEP 2 STAGE 6: WB LP 1604 MAINLANE WIDENING AND RW418 CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE MAINLANE WIDENING NEAR THE REDLAND RD TO WB LP 1604 ENTRANCE RAMP. CONSTRUCTION INCLUDES RETAINING WALL AND MAINLANE WIDENING.

1. PLACE SW3P EROSION CONTROL DEVICES ALONG RAMP DRAINAGE STRUCTURES CONSTRUCTED PREVIOUSLY.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CTB.
5. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED MAINLANE WIDENING. AS SHOWN ON THE PLANS.
6. CONSTRUCT MSE RETAINING WALL RW418 AND TEMPORARY SHORING TRW418.
7. WIDENING EXISTING MAINLANES.
8. CONSTRUCT MAINLANE RAILING AND FINISHES

PHASE 2 STEP 2 STAGE 7: BULVERDE RD TO WB LP 1604 ENTRANCE RAMP CONSTRUCTION

THE INTENT OF THIS STAGE IS TO CONSTRUCT THE PROPOSED LP 1604 WB ENTRANCE RAMP FROM BULVERDE RD. CONSTRUCTION INCLUDES DEMOLITION AND RECONSTRUCTION OF EXISTING RAMP. RAMP TRAFFIC WILL USE A TEMPORARY RAMP EAST OF THE EXISTING RAMP AS SHOWN ON THE PLANS.

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO RAMP RELOCATION.
2. PLACE SW3P EROSION CONTROL DEVICES NEAR PROPOSED ENTRANCE RAMP CONSTRUCTION.
3. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS. OPEN TEMPORARY ENTRANCE RAMP.
5. UTILIZE TCP (6-1A) – 12 TO PLACE CRASH CUSHION ATTENUATORS (CCAS), CTB, AND LPCB.
6. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.
7. RECONSTRUCT EXISTING RAMP BULVERDE RD TO WB LP 1604 AS SHOWN ON THE PLANS.
8. CONSTRUCT THE FOLLOWING LARGE SIGN STRUCTURES.
   a. COSSs: 29-1.
9. CONSTRUCT FINAL RAMP RAILINGS AND FINISHES.

PHASE 2 STEP 2 STAGE 8: WB LP 1604 MAINLANE WIDENING CONSTRUCTION

THE INTENT OF THIS STAGE IS TO DEMO THE TEMPORARY ENTRANCE RAMP AND COMPLETE MAINLANE WIDENING NEAR THE TEMP RAMP LOCATION. CONSTRUCTION INCLUDES MAINLANE WIDENING.

1. PLACE SW3P EROSION CONTROL DEVICES ALONG FRONTAGE RD AND MAINLANES.
2. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
3. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
4. UTILIZE TCP (6-1A) – 12 TO PLACE CTB.
5. BEGIN REMOVALS OF TEMPORARY RAMP.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 14 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	145

7:39:43 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn

6. CONSTRUCT MAINLANE AND FR WIDENING.
7. WIDENING EXISTING MAINLANES.
8. CONSTRUCT ML AND FRTG ROAD RAILINGS AND FINAL FINISHES.

PHASE 2 STEP 3: STONE OAK AND MUD CREEK APPROACH SLAB AND LP 1604 MAINLANE CONSTRUCTION

THE INTENT OF THIS PHASE IS TO COMPLETE MAINLANE LP 1604 CONSTRUCTION. PHASE 2 STEP 3 INCLUDES STONE OAK AND WB MUD CREEK APPROACH SLAB CONSTRUCTION AND MAINLANE RECONSTRUCTION FROM REDLAND RD TO THE EASTERN PROJECT LIMITS. STONE OAK APPROACH SLAB RECONSTRUCTION CAN OCCUR ONCE ALL OTHER LP 1604 ML IMPROVEMENTS HAVE BEEN COMPLETED WEST OF US 281. EASTERN LP 1604 MAINLANE RECONSTRUCTION AND MUD CREEK APPROACH SLAB CONSTRUCTION CAN BEGIN ONCE ALL EXTERIOR WIDENINGS AND RAMP RECONFIGURATIONS HAVE BEEN COMPLETED EAST OF MUD CREEK

1. PLACE DMS MESSAGE BOARDS TWO WEEKS PRIOR TO MAJOR TRAFFIC SWITCH.
2. PLACE SW3P EROSION CONTROL DEVICES NEAR CONSTRUCTION LIMITS.
3. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. UTILIZE TCP (3-2) – 13 TO PLACE WORKZONE PAVEMENT MARKINGS.
5. UTILIZE TCP (3-2) – 13 TO PLACE LPCB.
6. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED CONSTRUCTION AS SHOWN ON THE PLANS.

LP 1604 MAINLANE RECONSTRUCTION

7. RECONSTRUCT MAINLANES FROM STATION 4563+00 TO PROJECT'S EASTERN TERMINUS.
8. CONSTRUCT PROPOSED PAVEMENT SECTION AS SHOWN IN THE PLANS. DO NOT PLACE THE FINAL SURFACE AS SHOWN IN THE TCP PAVEMENT DETAILS.

STONE OAK AND MUD CREEK APPROACH SLAB CONSTRUCTION

9. CONSTRUCT APPROACH SLABS ON EXISTING BRIDGES.
   a. PLACE DOWELS INTO PREVIOUSLY CONSTRUCTED APPROACH SLABS PRIOR TO FINAL POUR.

PHASE 3 STEP 1: MAINLANE FINAL SURFACE, SIDEWALKS, DRIVEWAYS, AND FINAL FRONTAGE ROAD TIE-IN CONSTRUCTION

THE INTENT OF THIS PHASE IS TO CONSTRUCT THE SIDEWALKS ALONG THE PROJECT EXTENTS AREAS OF EXTERIOR FRONTAGE RD RECONSTRUCTION, DRIVEWAYS, SIDEWALK, AND FINAL TIE-INS. THE FINAL SURFACE CAN BE PLACED ALONG THE MAINLANES AND FRONTAGE ROADS ONCE WORK IS SUBSTANTIALLY COMPLETE BETWEEN CROSS STREETS. ALL UTILITY RELOCATIONS MUST BE COMPLETE PRIOR TO BEGINNING SIDEWALK CONSTRUCTION. UTILITY SURFACE FEATURE ADJUSTMENTS MUST BE COORDINATED THROUGHOUT SIDEWALK CONSTRUCTION WITH APPROPRIATE UTILITY OWNERS AS STATED IN THE GENERAL NOTES.

1. PLACE SW3P EROSION CONTROL DEVICES ALONG FRONTAGE ROAD INLETS.
2. UTILIZE TCP (3-2) – 13 PLACE LPCB. PLACE BARRELS ALONG SIDEWALK CONSTRUCTION THAT IS NOT ATTACHED TO THE CURB AND LPCB WHERE CONSTRUCTION IS ADJACENT TO THE CURB.
3. BEGIN REMOVALS WHICH COINCIDE WITH PROPOSED SIDEWALK CONSTRUCTION AS SHOWN ON THE PLANS. ENSURE APPROPRIATE PEDESTRIAN DETOURS ARE SETUP PRIOR TO REMOVAL OF EXISTING SIDEWALK. SIDEWALK CONSTRUCTION CAN ONLY BE PERFORMED ALONG ONE FRONTAGE ROAD (EB OR WB) BETWEEN CROSS STREETS AT A TIME. PROPOSED/TEMPORARY SIGNAGE MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS AND SIGN STRUCTURES. SIGN RELOCATIONS AND ADJUSTMENTS ARE SUBSIDIARY TO ITEM 502.
4. CONSTRUCT SIEDWALK WALLS AS SHOWN IN THE PLANS
   a. RW411 (TPW411)
   b. RW412 (TPW412)
   c. RW410
   d. RW413
5. RECONSTRUCT DRIVEWAY TIE-INS AS SHOWN ON THE PLANS. MAINTAIN PROPERTY ACCESS AT ALL TIMES OR AS DIRECTED BY THE ENGINEER.
6. CONSTRUCT PROPOSED SIDEWALK AS SHOWN IN THE PLANS.

MILL AND OVERLAY

7. UTILIZE TCP STANDARDS TO CLOSE EXISTING SINGLE LANES OF TRAFFIC AND COMPLETE MISCELLANEOUS CONSTRUCTION.
8. MILL SACRIFICIAL LAYERS AND OVERLAY FINAL SURFACE OF PROJECT EXTENTS USING TCP STANDARDS.
9. PLACE FINAL PAVEMENT MARKINGS AND OPEN TO TRAFFIC.
10. PERFORM FINAL INSPECTION AND DEVELOP PUNCHLIST.
11. COMPLETE WORK IDENTIFIED ON PUNCHLIST.
12. PROJECT ACCEPTANCE.

2/28/2023

STATE OF TEXAS
CULLEN L. HARPER
124860
LICENSED PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	BY

TBPE REGISTRATION NO. F-16341

LJA Engineering, Inc.
FRN - F-1386

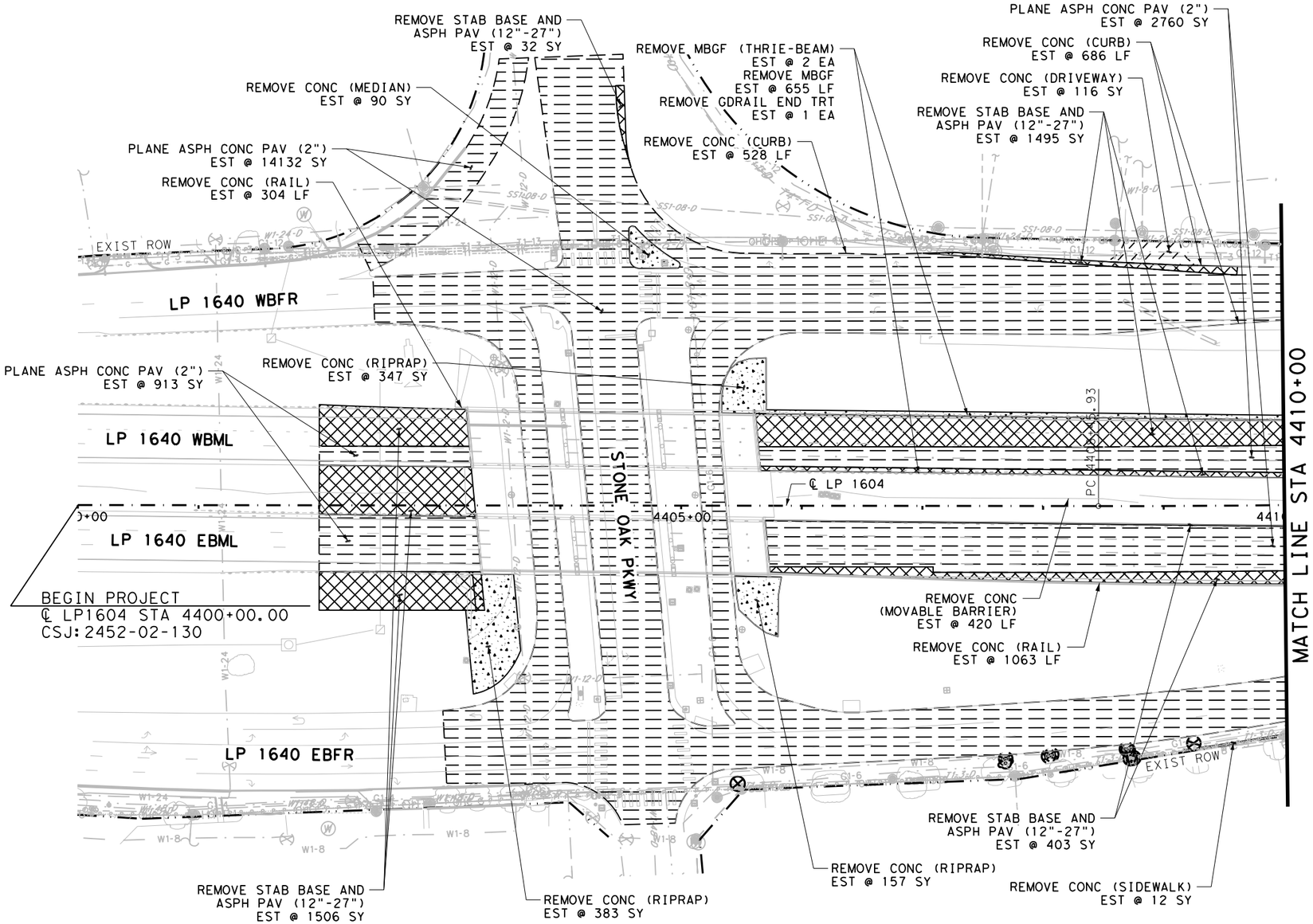
Texas Department of Transportation
©2023

LP 1604
TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

SHEET 15 OF 15

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	146

7:39:47 PM
c:\workingdir\lja-pw.bentley.com_lja-pw-01\rkeller\dms31814\TCP Narrative.dgn



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	887
0104	6011	REMOVING CONC (MEDIANS)	SY	90
0104	6015	REMOVING CONC (SIDEWALKS)	SY	12
0104	6017	REMOVING CONC (DRIVEWAYS)	SY	116
0104	6021	REMOVING CONC (CURB)	LF	528
0104	6037	REMOVE CONC (RAIL)	LF	1367
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	420
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	3436
0354	6045	PLANE ASPH CONC PAV (2")	SY	17805
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	655
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	2
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′- HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

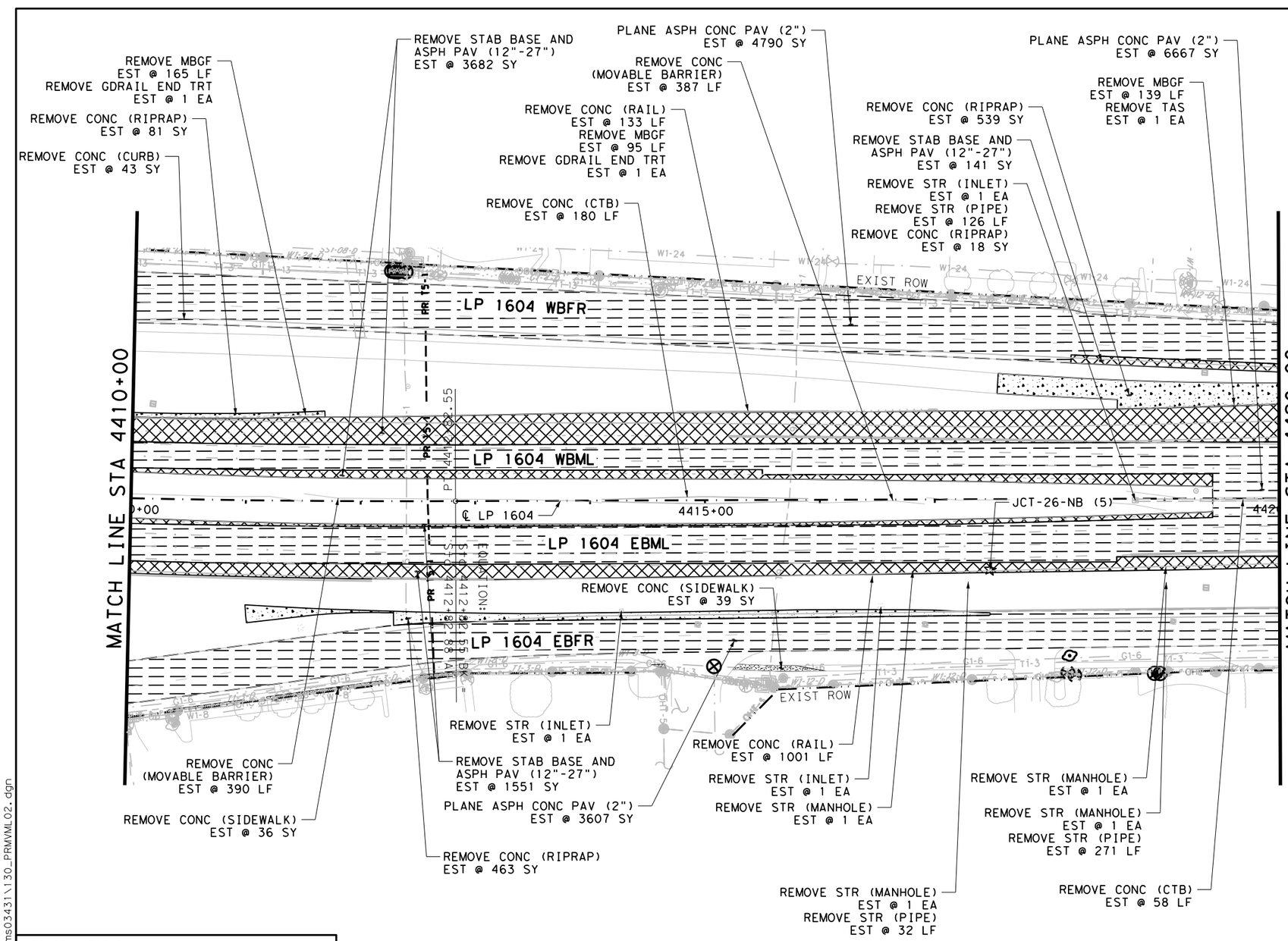
LP 1604

REMOVAL PLAN
STA 4400+00 TO STA 4410+00

SHEET 1 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	792

3:29:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMVML01.dgn



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	1101
0104	6015	REMOVING CONC (SIDEWALKS)	SY	75
0104	6023	REMOVING CONC (CTB)	LF	238
0104	6037	REMOVE CONC (RAIL)	LF	1134
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	777
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	5374
0354	6045	PLANE ASPH CONC PAV (2")	SY	15064
0496	6002	REMOV STR (INLET)	EA	3
0496	6003	REMOV STR (MANHOLE)	EA	4
0496	6007	REMOV STR (PIPE)	LF	429
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	399
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	2

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

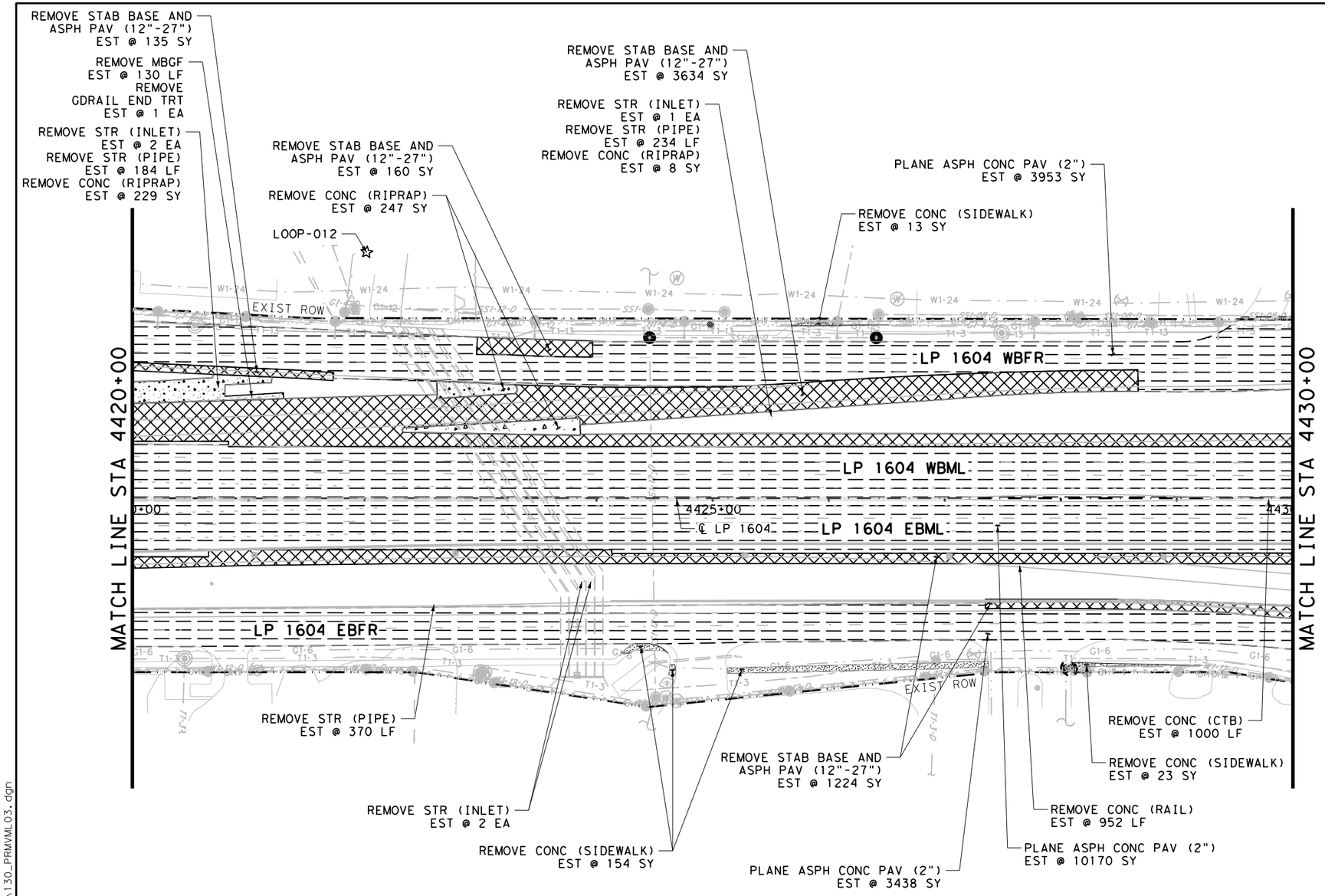
LP 1604

REMOVAL PLAN
STA 4410+00 TO STA 4420+00

SHEET 2 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	793

3:30:05 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMVML02.dgn



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	484
0104	6015	REMOVING CONC (SIDEWALKS)	SY	190
0104	6023	REMOVING CONC (CTB)	LF	1000
0104	6037	REMOVE CONC (RAIL)	LF	952
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	5153
0354	6045	PLANE ASPH CONC PAV (2")	SY	17561
0496	6002	REMOV STR (INLET)	EA	5
0496	6007	REMOV STR (PIPE)	LF	788
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	130
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′ - HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation ©2023

LP 1604

REMOVAL PLAN
STA 4420+00 TO STA 4430+00

SHEET 3 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	794

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

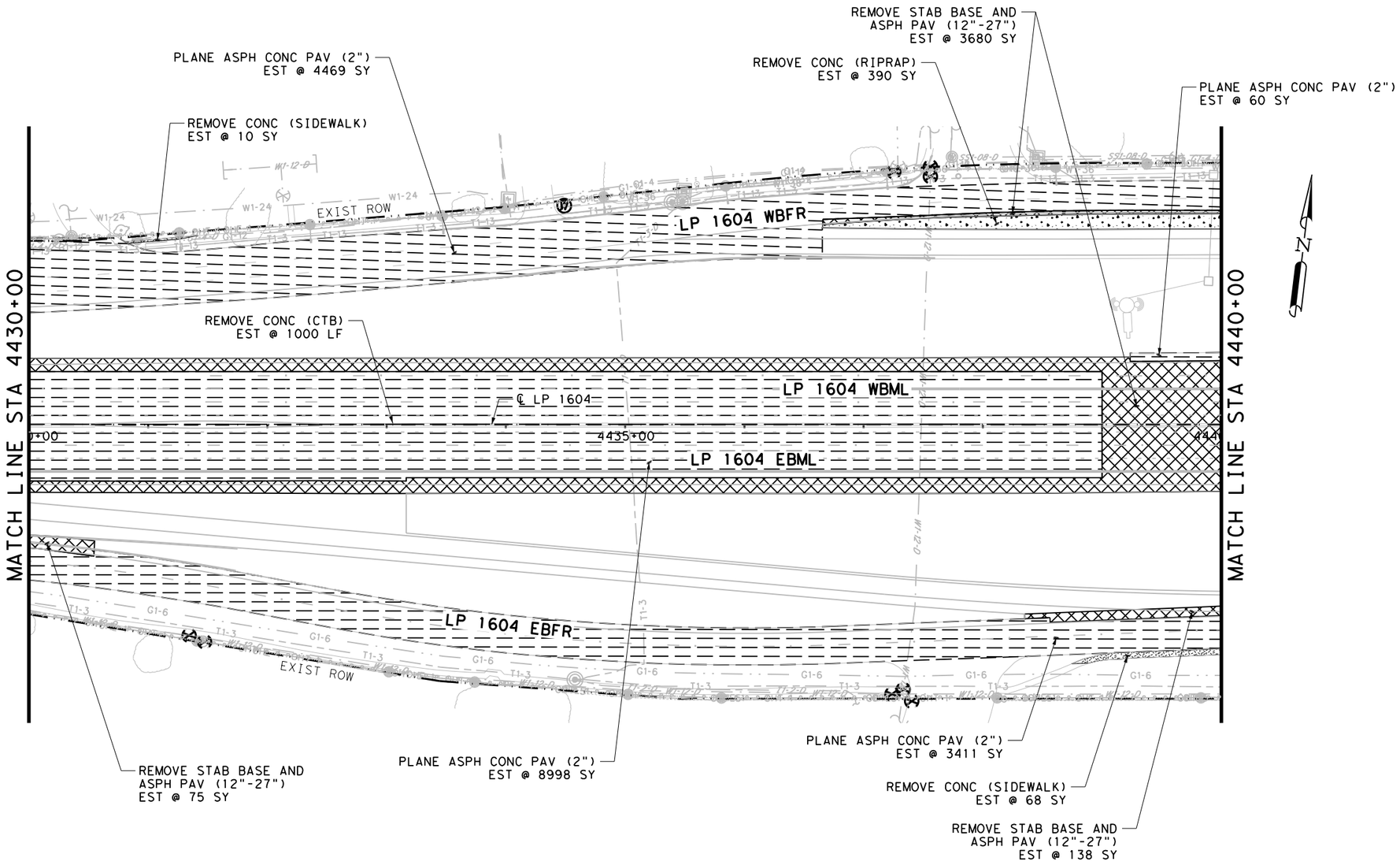
NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	390
0104	6015	REMOVING CONC (SIDEWALKS)	SY	78
0104	6023	REMOVING CONC (CTB)	LF	1000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	3893
0354	6045	PLANE ASPH CONC PAV (2")	SY	16938



UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

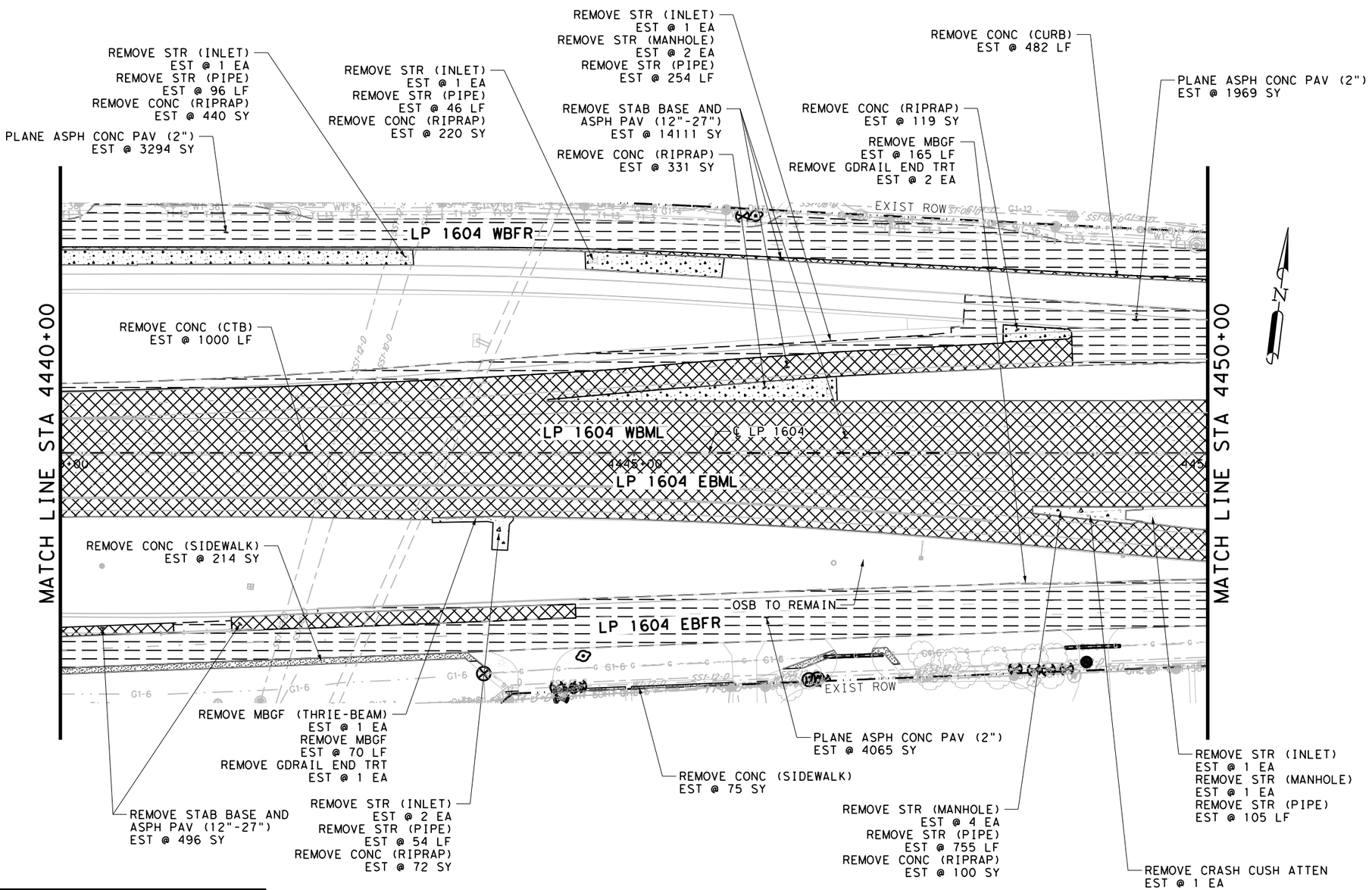
LP 1604

REMOVAL PLAN
STA 4430+00 TO STA 4440+00

SHEET 4 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	795

3:31:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMVML04.dgn



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	1241
0104	6015	REMOVING CONC (SIDEWALKS)	SY	289
0104	6021	REMOVING CONC (CURB)	LF	482
0104	6023	REMOVING CONC (CTB)	LF	1000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	14607
0354	6045	PLANE ASPH CONC PAV (2")	SY	9328
0496	6002	REMOV STR (INLET)	EA	6
0496	6003	REMOV STR (MANHOLE)	EA	7
0496	6007	REMOV STR (PIPE)	LF	1310
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	235
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	3
0545	6005	CRASH CUSH ATTEN (REMOVE)	EA	1

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

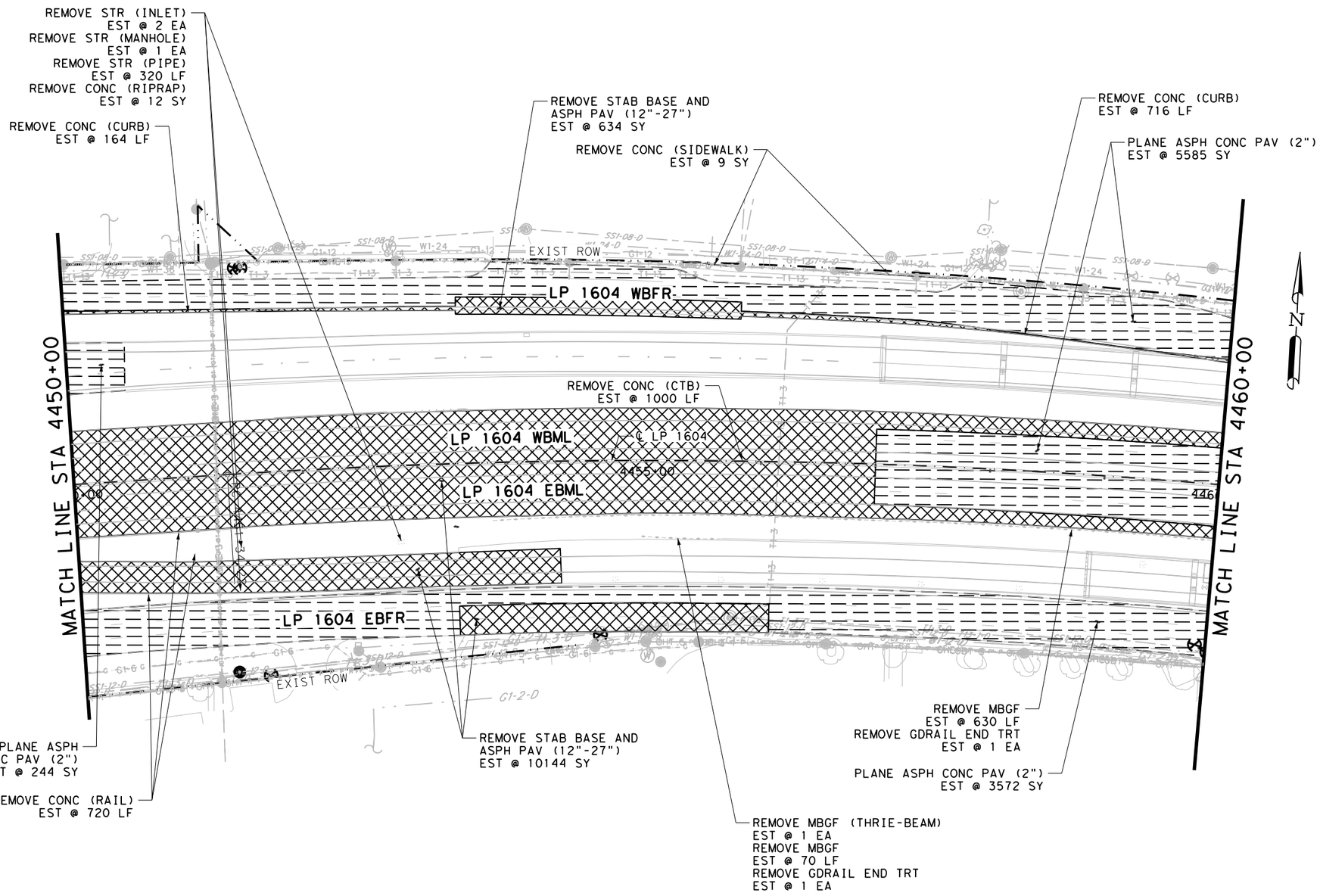
LP 1604

REMOVAL PLAN
STA 4440+00 TO STA 4450+00

SHEET 5 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	796

2/28/2023 3:32:05 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PRWML05.dgn



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	12
0104	6015	REMOVING CONC (SIDEWALKS)	SY	9
0104	6021	REMOVING CONC (CURB)	LF	880
0104	6023	REMOVING CONC (CTB)	LF	1000
0104	6037	REMOVE CONC (RAIL)	LF	720
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	10778
0354	6045	PLANE ASPH CONC PAV (2")	SY	9401
0496	6002	REMOV STR (INLET)	EA	2
0496	6003	REMOV STR (MANHOLE)	EA	1
0496	6007	REMOV STR (PIPE)	LF	320
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	700
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	2

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′- HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

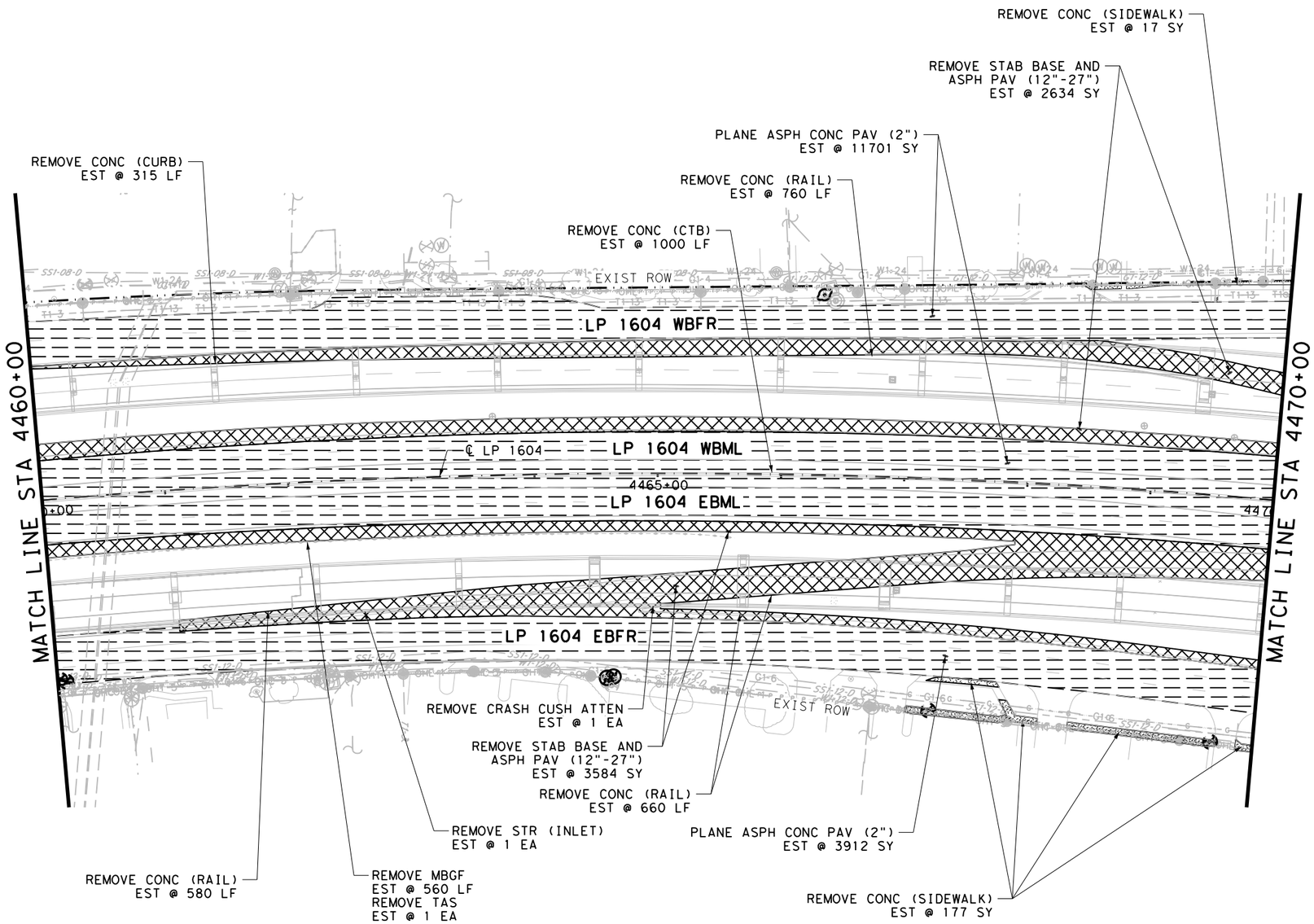
LP 1604

REMOVAL PLAN
STA 4450+00 TO STA 4460+00

SHEET 6 OF 23

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	797

2/28/2023 3:32:46 PM
v:\bentley\dms\lja production\csanchez\dms0343\130_PRMWML06.dgn



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6015	REMOVING CONC (SIDEWALKS)	SY	194
0104	6021	REMOVING CONC (CURB)	LF	315
0104	6023	REMOVING CONC (CTB)	LF	1000
0104	6037	REMOVE CONC (RAIL)	LF	2000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	6218
0354	6045	PLANE ASPH CONC PAV (2")	SY	15613
0496	6002	REMOV STR (INLET)	EA	1
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	560
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	1
0545	6005	CRASH CUSH ATTEN (REMOVE)	EA	1

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

REMOVAL PLAN
STA 4460+00 TO STA 4470+00

SHEET 7 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	798

UTILITY LEGEND:

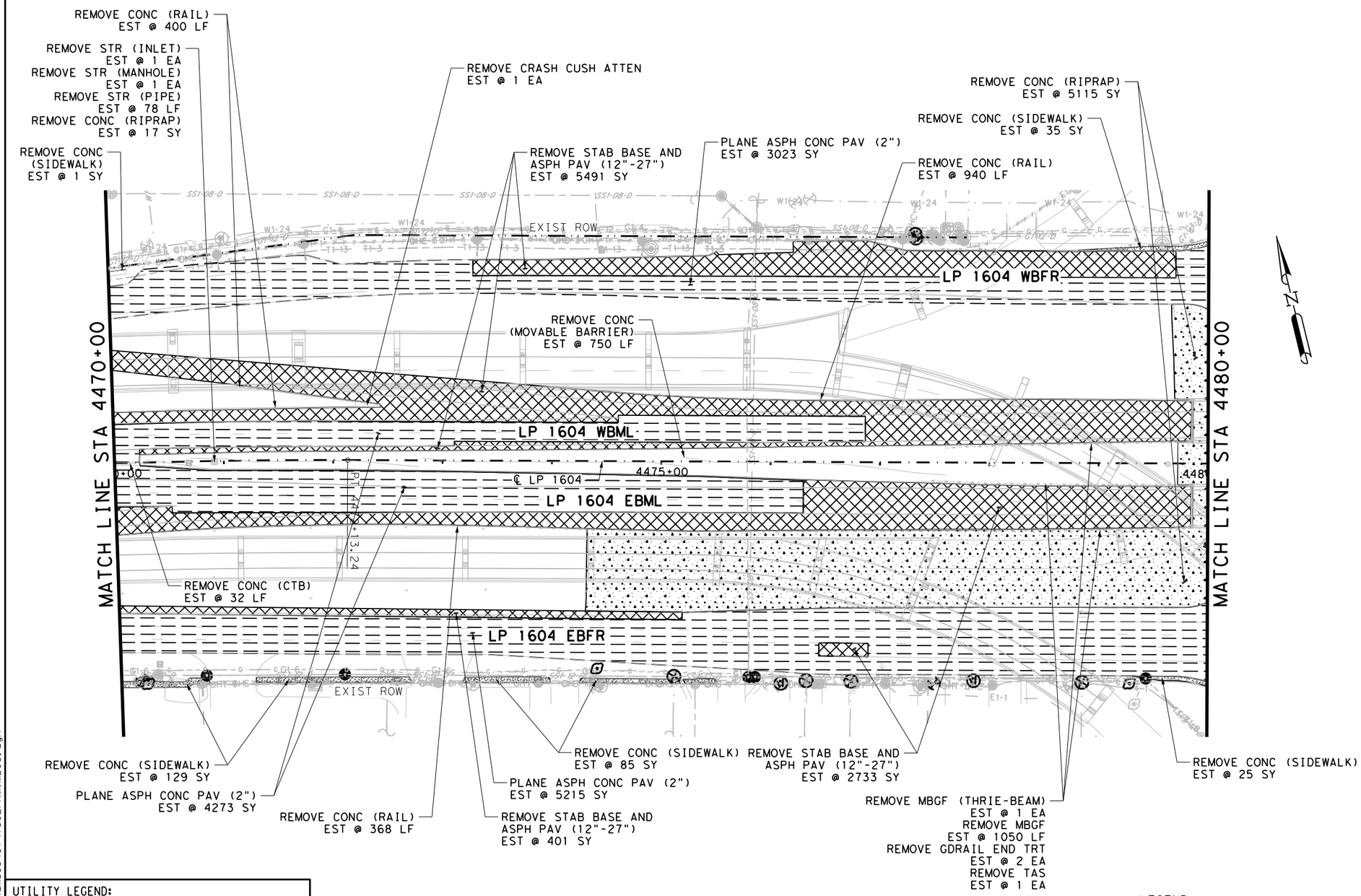
- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	5132
0104	6015	REMOVING CONC (SIDEWALKS)	SY	275
0104	6023	REMOVING CONC (CTB)	LF	32
0104	6037	REMOVE CONC (RAIL)	LF	1708
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	750
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	8625
0354	6045	PLANE ASPH CONC PAV (2")	SY	12511
0496	6002	REMOV STR (INLET)	EA	1
0496	6003	REMOV STR (MANHOLE)	EA	1
0496	6007	REMOV STR (PIPE)	LF	78
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	1050
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	1
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	2
0545	6005	CRASH CUSH ATTEN (REMOVE)	EA	1

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

REMOVAL PLAN
STA 4470+00 TO STA 4480+00

SHEET 8 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	799

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

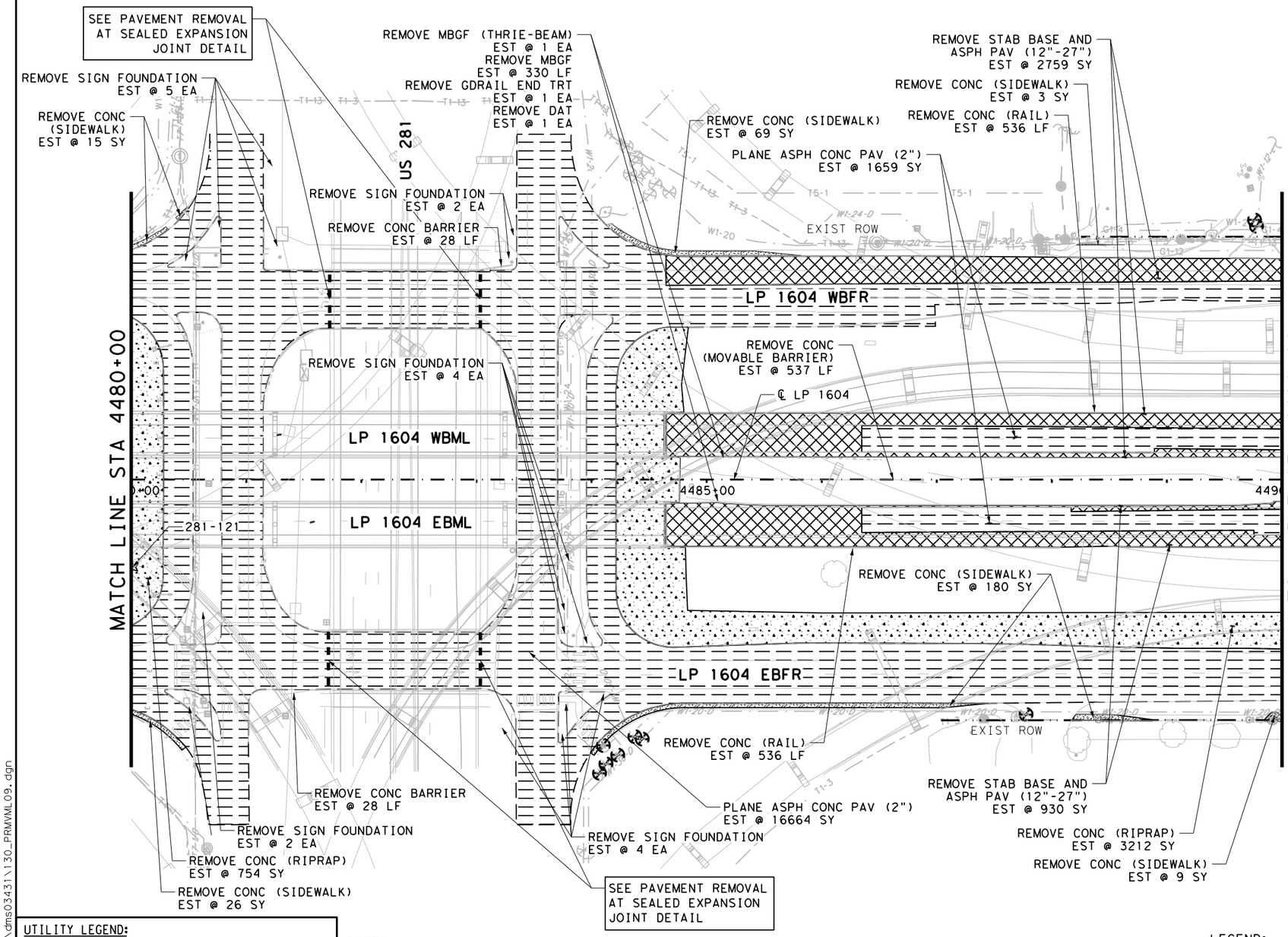
NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

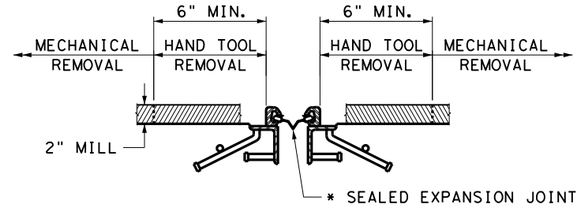
LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

3:34:09 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms0343\1130_PRMVML08.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	3966
0104	6015	REMOVING CONC (SIDEWALKS)	SY	302
0104	6037	REMOVE CONC (RAIL)	LF	1072
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	537
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	3689
0354	6045	PLANE ASPH CONC PAV (2")	SY	18323
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	330
0542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	LF	1
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1



PAVEMENT REMOVAL AT SEALED EXPANSION JOINT DETAIL

* EXISTING SEALED EXPANSION JOINT TO REMAIN. CONTRACTOR TO STOP SHORT OF THE JOINT USING MECHANICAL EQUIPMENT AS SHOWN IN DETAIL. REMAINING OVERLAY SHALL BE REMOVED USING HAND TOOLS. IF THE JOINT IS DAMAGED IT SHALL BE REPLACED AT THE CONTRACTORS COST.

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

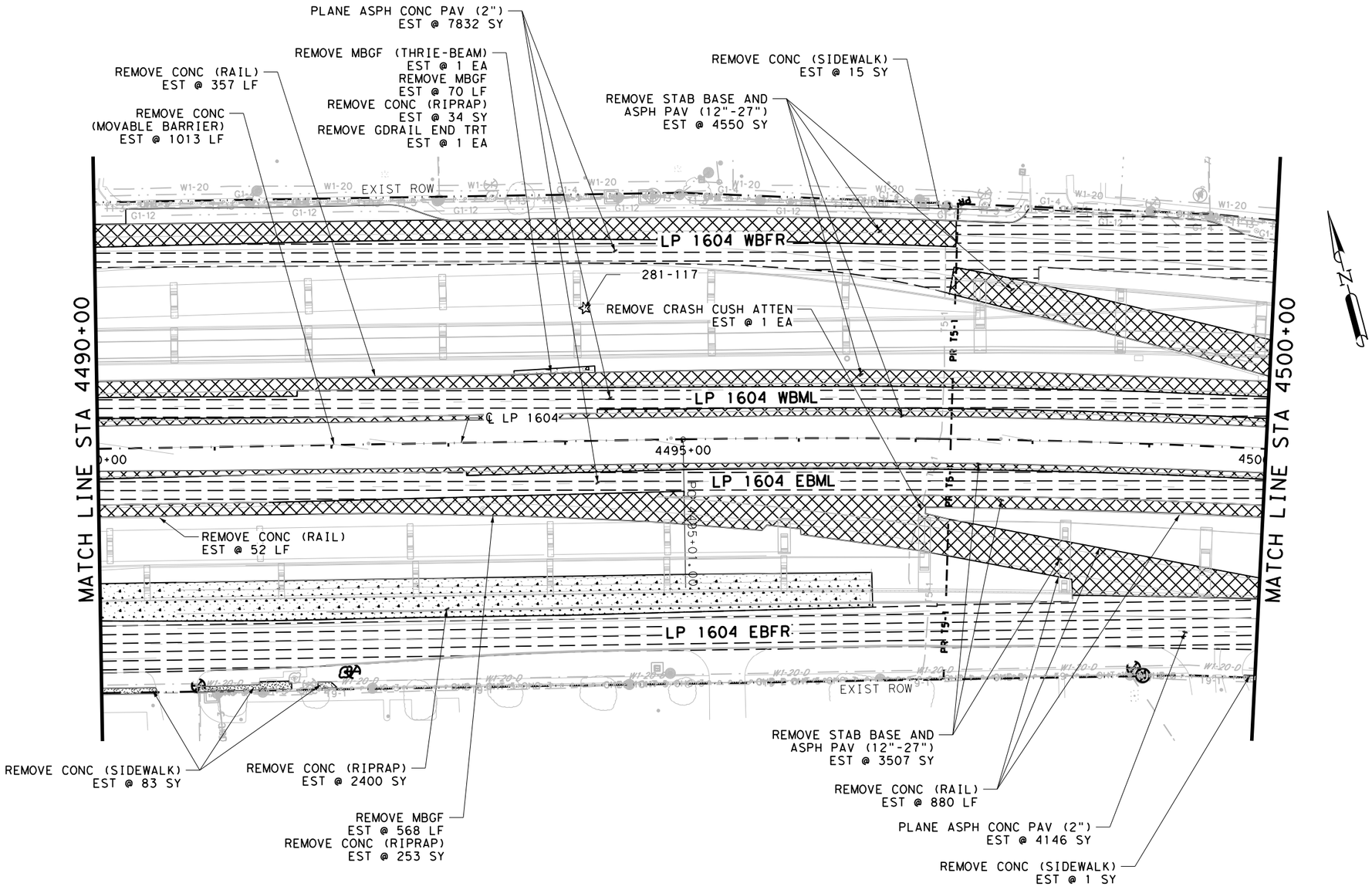
REMOVAL PLAN
STA 4480+00 TO STA 4490+00

SHEET 9 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	800

3:34:50 PM 2/28/2023
v:\bentley\dms\ja production\csanchez\dms03431\130_PRWML09.dgn

QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	2687
0104	6015	REMOVING CONC (SIDEWALKS)	SY	99
0104	6037	REMOVE CONC (RAIL)	LF	1289
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1013
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	8057
0354	6045	PLANE ASPH CONC PAV (2")	SY	11978
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	638
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1
0545	6005	CRASH CUSH ATTEN (REMOVE)	EA	1



UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

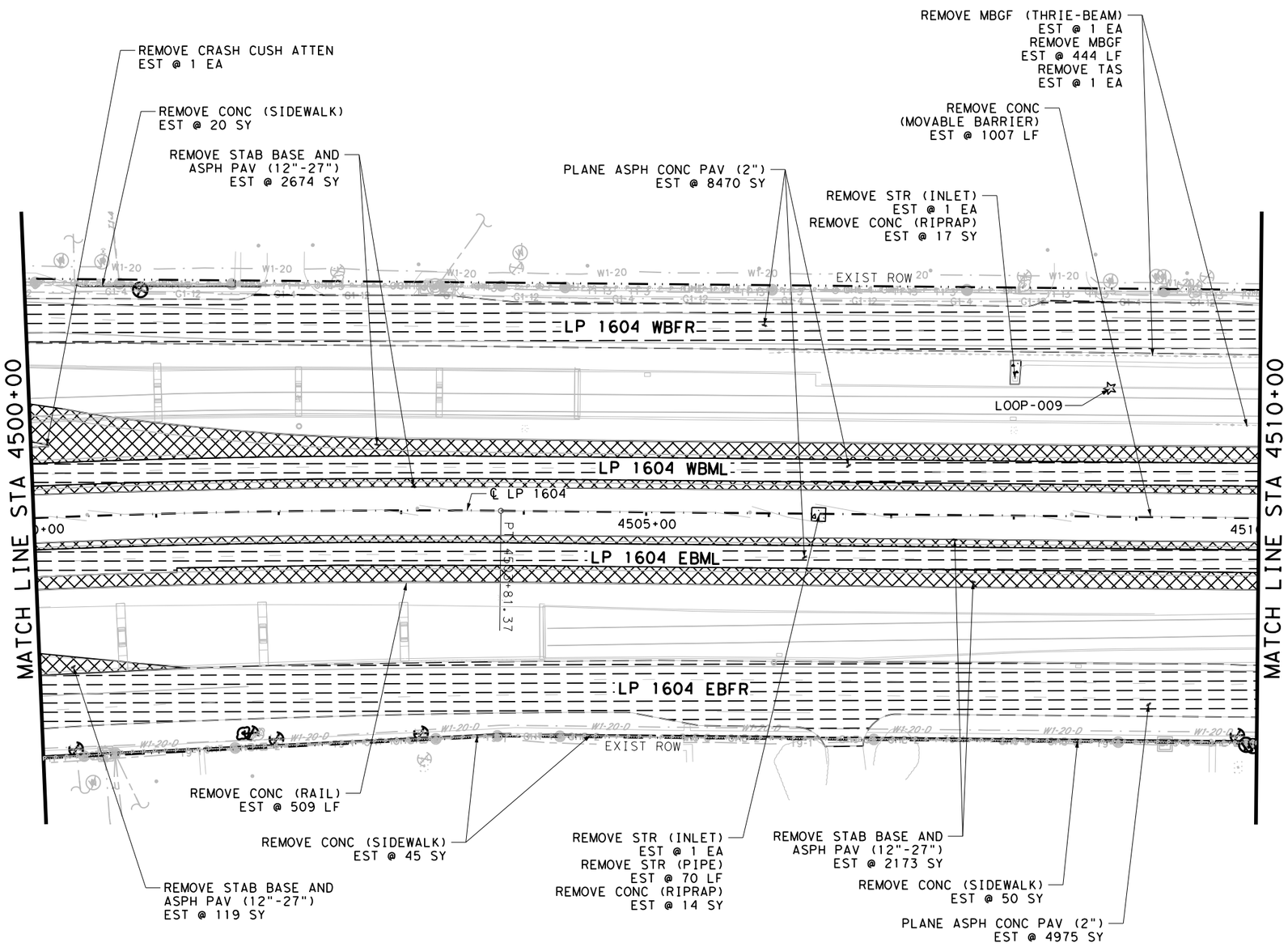
LP 1604

REMOVAL PLAN
STA 4490+00 TO STA 4500+00

SHEET 10 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	801

3:35:29 PM 2/28/2023
v:\bentley\dms\lja production\cgsanchez\dms03431\130_PRMVML10.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	31
0104	6015	REMOVING CONC (SIDEWALKS)	SY	115
0104	6037	REMOVE CONC (RAIL)	LF	509
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1007
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	4966
0354	6045	PLANE ASPH CONC PAV (2")	SY	13445
0496	6002	REMOV STR (INLET)	EA	2
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	514
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	1
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0545	6005	CRASH CUSH ATTEN (REMOVE)	EA	1

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′- HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

REMOVAL PLAN
STA 4500+00 TO STA 4510+00

SHEET 11 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	802

UTILITY LEGEND:

- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

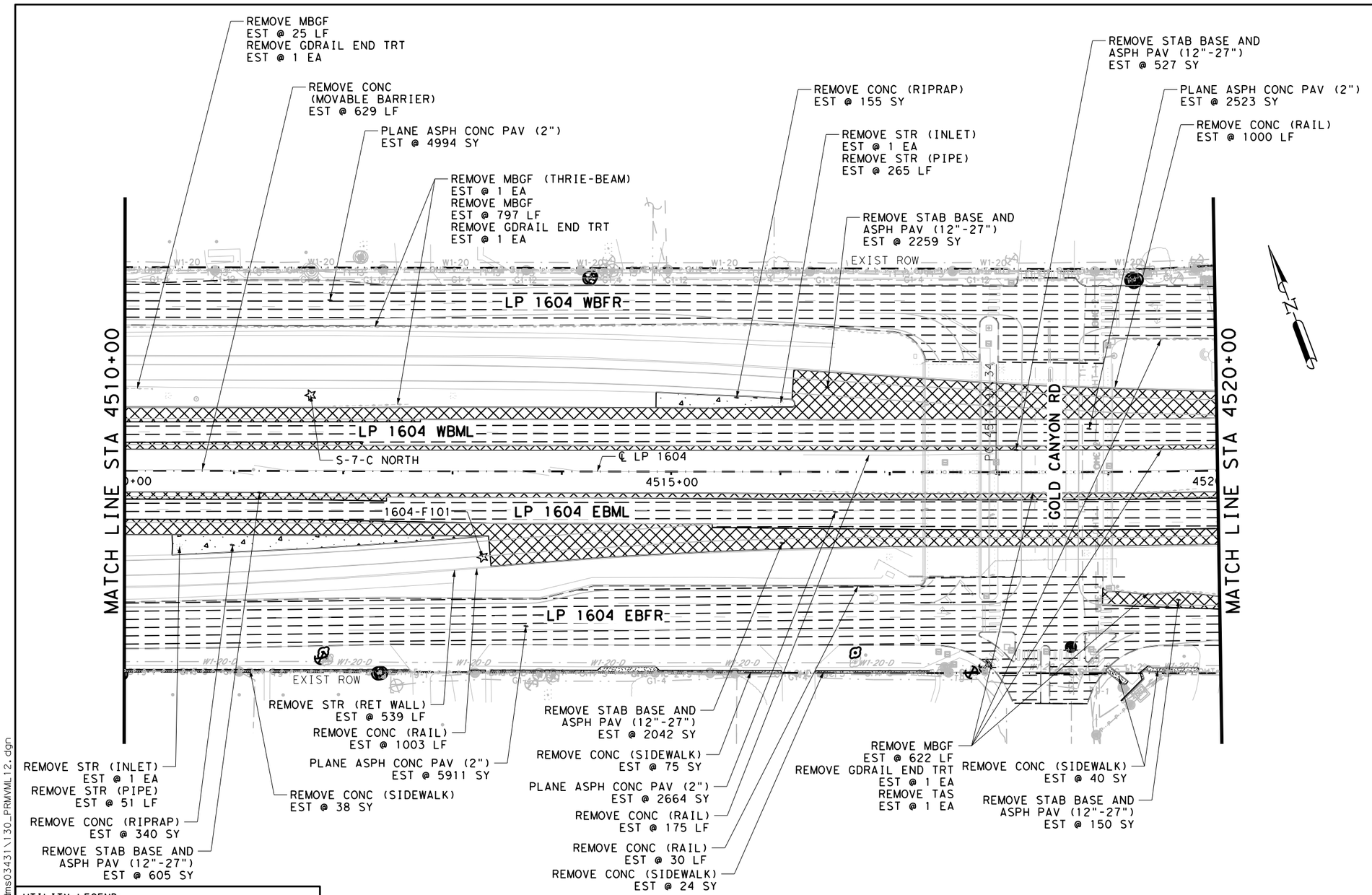
NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

2/28/2023 3:36:10 PM
v:\bentley\dms\lja production\sanchez\dms03431\130_PRMVML11.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	495
0104	6015	REMOVING CONC (SIDEWALKS)	SY	177
0104	6037	REMOVE CONC (RAIL)	LF	2178
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	629
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	5583
0354	6045	PLANE ASPH CONC PAV (2")	SY	16092
0496	6002	REMOV STR (INLET)	EA	2
0496	6007	REMOV STR (PIPE)	LF	316
0496	6040	REMOV STR (RET WALL)	LF	539
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	1444
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	1
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	3

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06– CONTERRA
- OHT-07– ZAYO
- OHT-09– CPS
- OHT-10– FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX– SAWS WATER-D(IN)
- SS1-XX– SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation ©2023

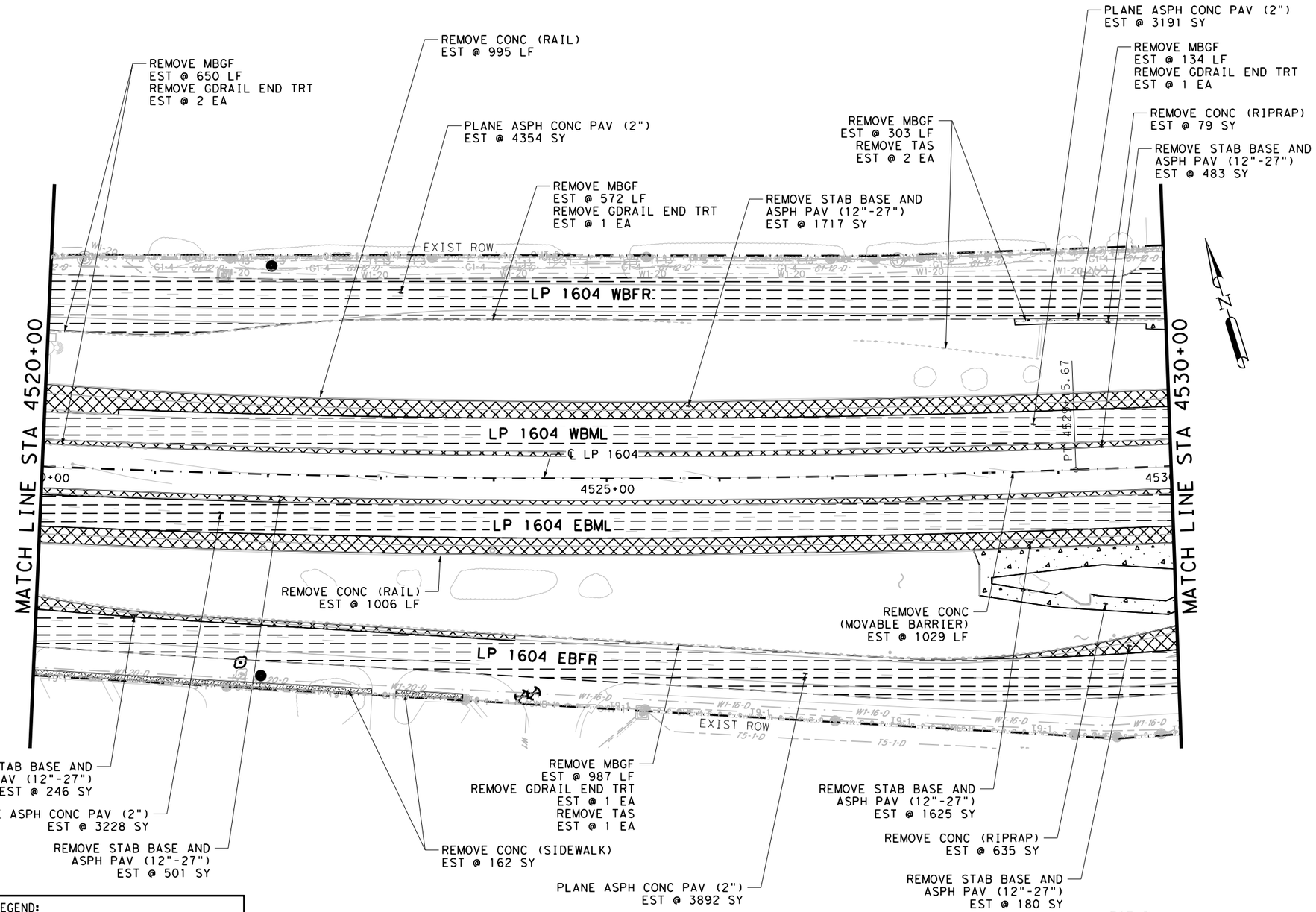
LP 1604

REMOVAL PLAN
STA 4510+00 TO STA 4520+00

SHEET 12 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	803

3:36:50 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRWWL12.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	714
0104	6015	REMOVING CONC (SIDEWALKS)	SY	162
0104	6037	REMOVE CONC (RAIL)	LF	2001
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1029
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	4752
0354	6045	PLANE ASPH CONC PAV (2")	SY	14665
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	2646
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	3
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	5

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

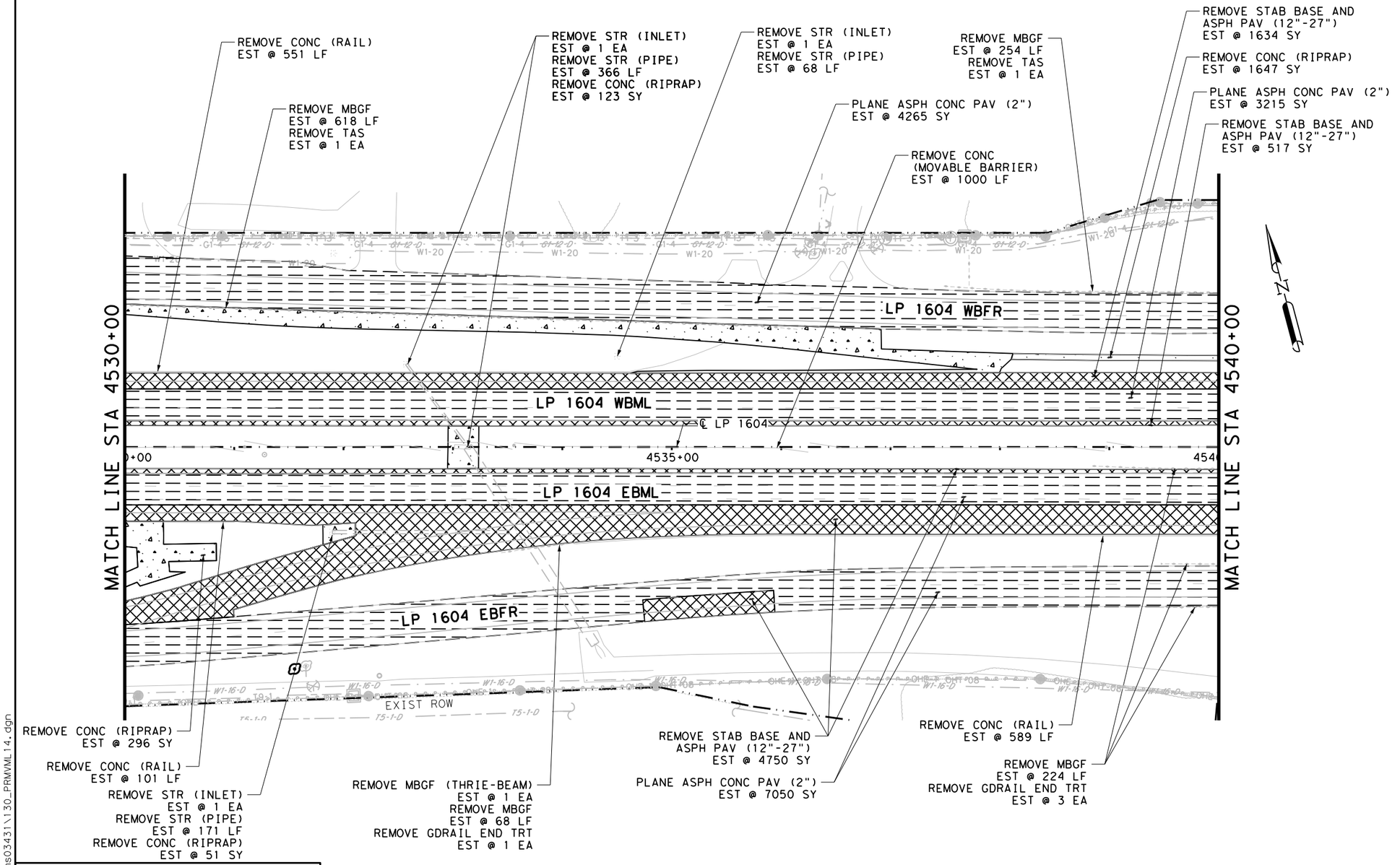
LP 1604

REMOVAL PLAN
STA 4520+00 TO STA 4530+00

SHEET 13 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	804

2/28/2023 3:37:30 PM
v:\bentley\dms\lja production\cgsanchez\dms03431\130_PRMVML13.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	2066
0104	6037	REMOVE CONC (RAIL)	LF	1241
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	6901
0354	6045	PLANE ASPH CONC PAV (2")	SY	14530
0496	6002	REMOV STR (INLET)	EA	3
0496	6007	REMOV STR (PIPE)	LF	605
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	1164
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	2
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	4

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06– CONTERRA
- OHT-07– ZAYO
- OHT-09– CPS
- OHT-10– FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX– SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

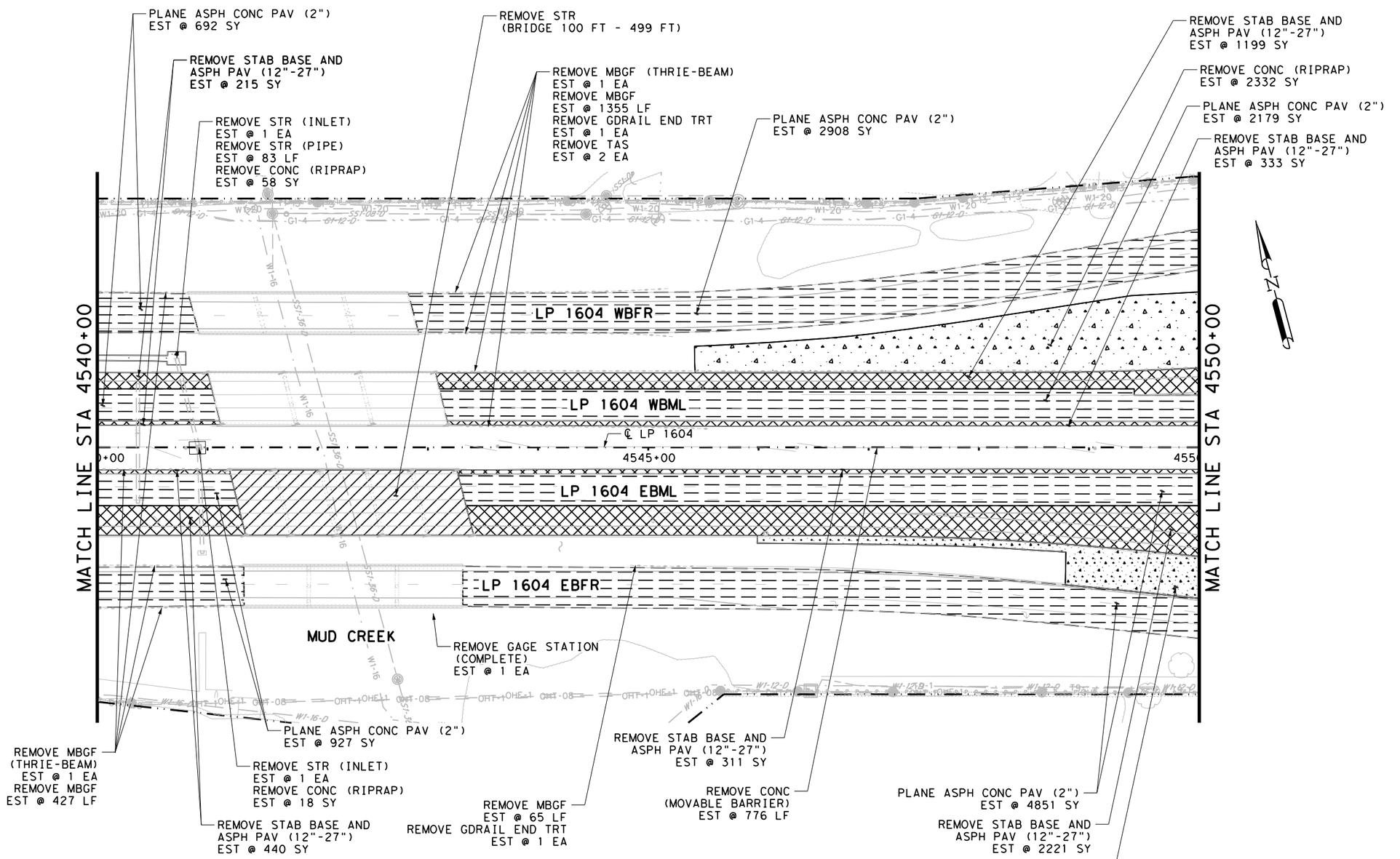
LP 1604

REMOVAL PLAN
STA 4530+00 TO STA 4540+00

SHEET 14 OF 23

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	805

3:38:11 PM 2/28/2023
V:\bentley\dms\lja production\cesanchez\dms03431\130_PRMWL14.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	3151
0104	6014	REMOVING CONC (FOUNDATIONS)	CY	1.0
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	776
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	4719
0354	6045	PLANE ASPH CONC PAV (2")	SY	11557
0496	6002	REMOV STR (INLET)	EA	2
0496	6007	REMOV STR (PIPE)	LF	83
0496	6010	REMOV STR (BRIDGE 100 - 499 FT LENGTH	EA	1
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	1847
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	2
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	2
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	2

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06– CONTERRA
- OHT-07– ZAYO
- OHT-09– CPS
- OHT-10– FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX– SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL
STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

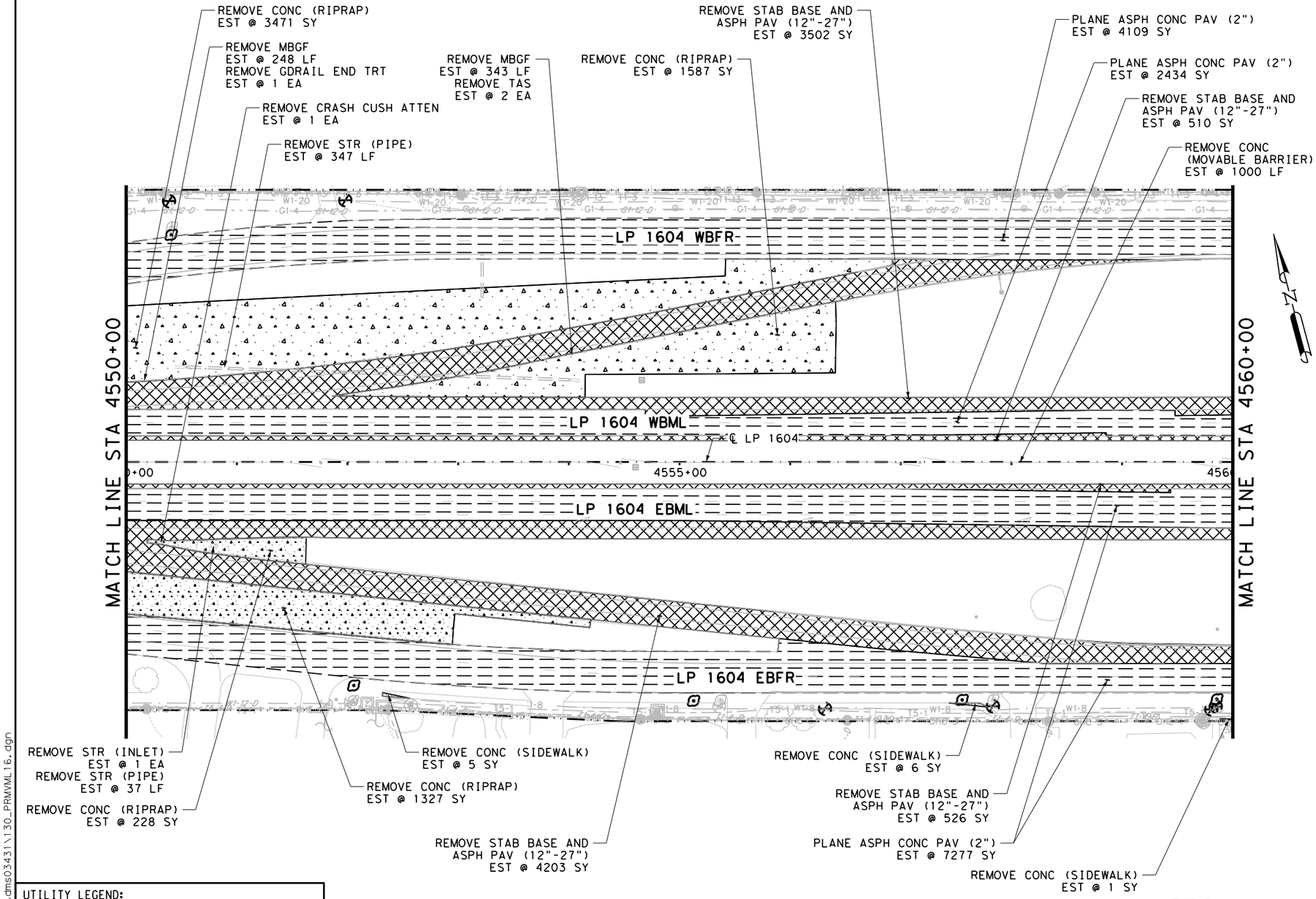
Texas Department of Transportation
©2023

LP 1604

REMOVAL PLAN
STA 4540+00 TO STA 4550+00

SHEET 15 OF 23

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	806



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	6613
0104	6015	REMOVING CONC (SIDEWALKS)	SY	12
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	8741
0354	6045	PLANE ASPH CONC PAV (2")	SY	13820
0496	6002	REMOV STR (INLET)	EA	1
0496	6007	REMOV STR (PIPE)	LF	384
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	591
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	2
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1
0545	6005	CRASH CUSH ATTEN (REMOVE)	EA	1

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′- HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

REMOVAL PLAN
STA 4550+00 TO STA 4560+00

SHEET 16 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	807

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

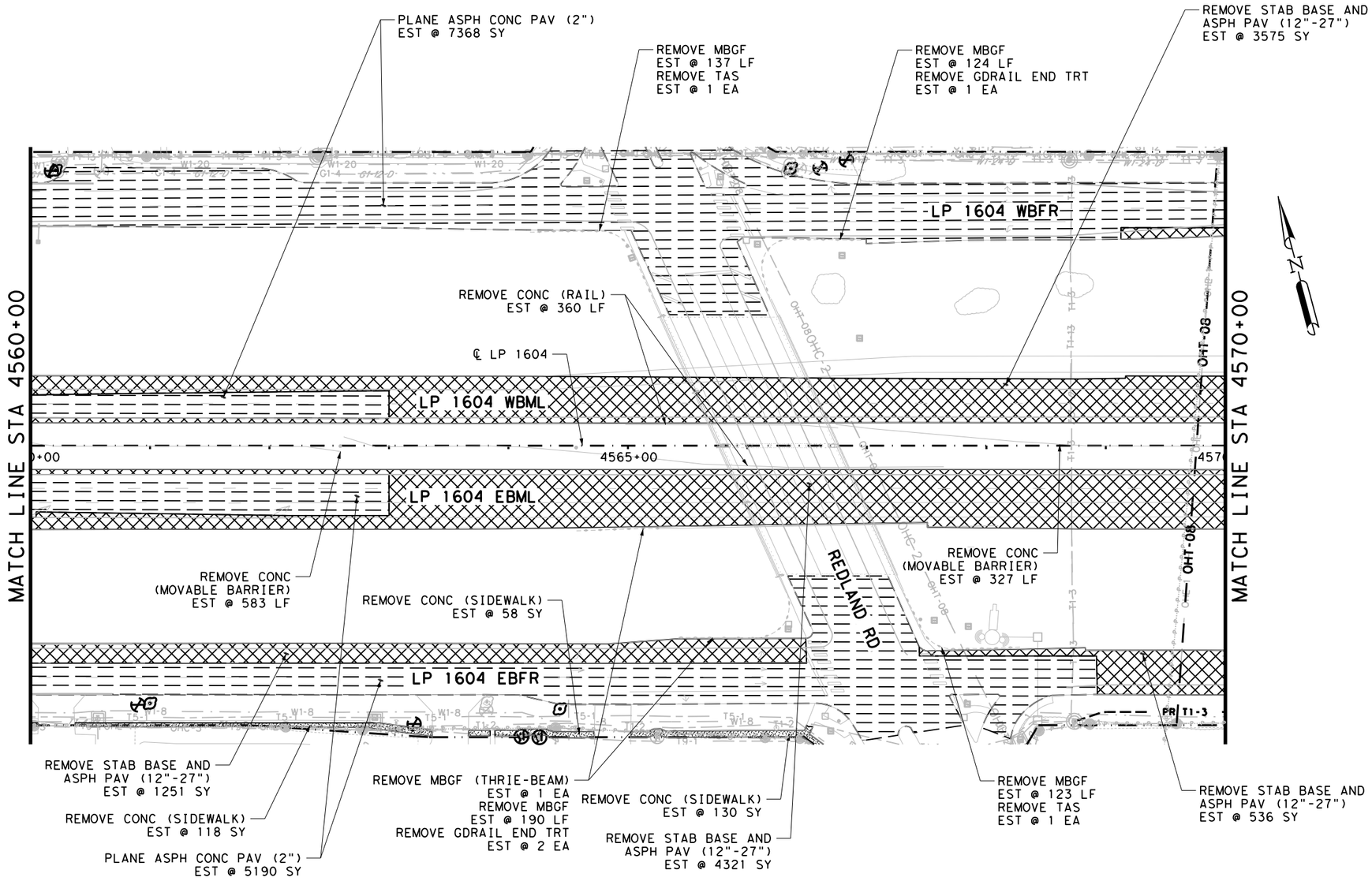
1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

3:39:39 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMVML16.dgn

QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6015	REMOVING CONC (SIDEWALKS)	SY	306
0104	6037	REMOVE CONC (RAIL)	LF	360
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	910
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	9683
0354	6045	PLANE ASPH CONC PAV (2")	SY	12558
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	574
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	2
0542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	3



UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

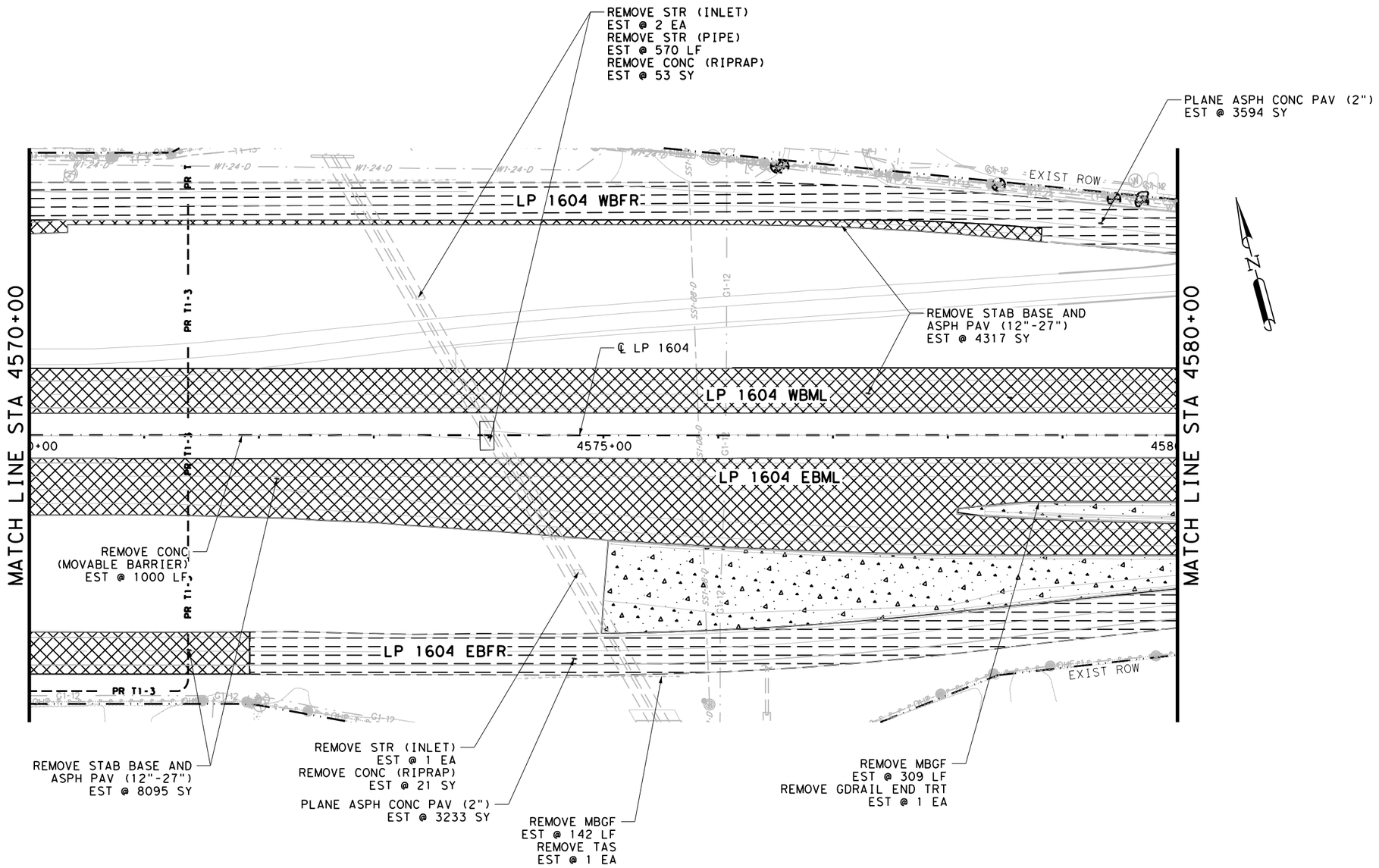
LP 1604

REMOVAL PLAN
STA 4560+00 TO STA 4570+00

SHEET 17 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	808

QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	12959
0354	6045	PLANE ASPH CONC PAV (2")	SY	6827
0496	6002	REMOV STR (INLET)	EA	3
0496	6007	REMOV STR (PIPE)	LF	570
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	451
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	1
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1



UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06– CONTERRA
- OHT-07– ZAYO
- OHT-09– CPS
- OHT-10– FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX– SAWS WATER-D(IN)
- SS1-XX– SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

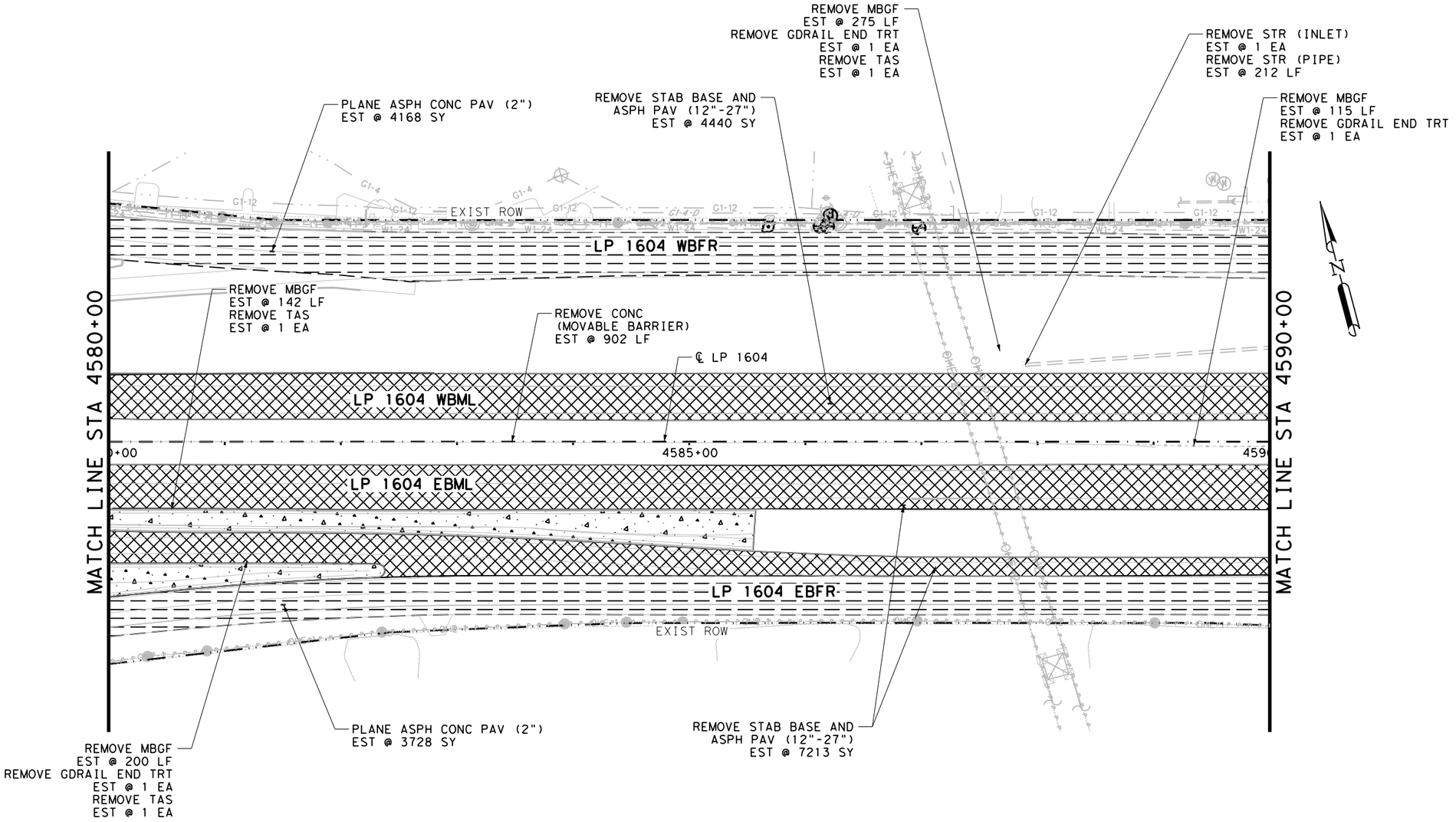
LP 1604

REMOVAL PLAN
STA 4570+00 TO STA 4580+00

SHEET 18 OF 23

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	809

QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	902
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	11653
0354	6045	PLANE ASPH CONC PAV (2")	SY	7896
0496	6002	REMOV STR (INLET)	EA	1
0496	6007	REMOV STR (PIPE)	LF	212
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	732
0542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	3
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	3



UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′ - HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

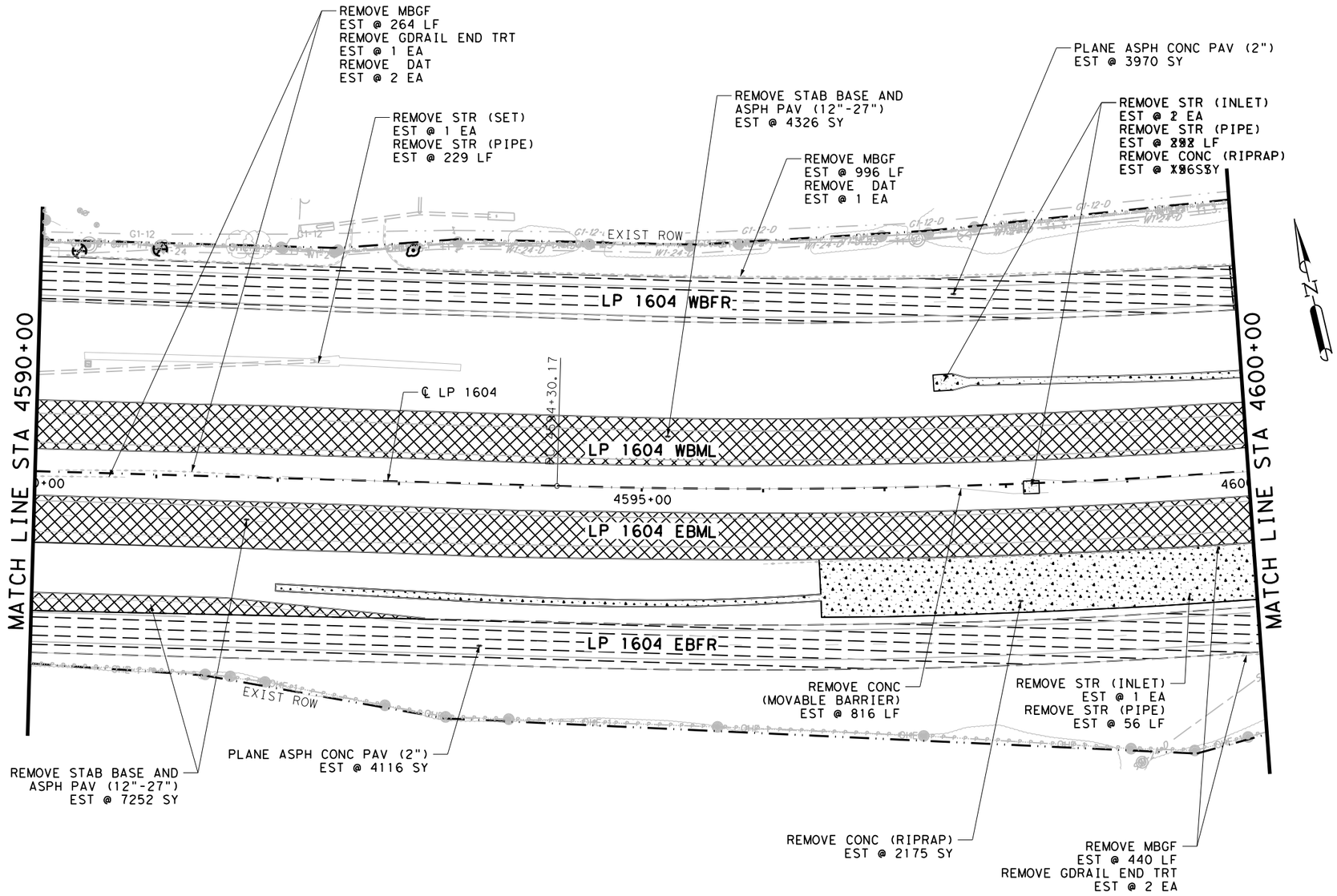
LP 1604

REMOVAL PLAN
STA 4580+00 TO STA 4590+00

SHEET 19 OF 23

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	810

3:41:40 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMWML19.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	2371
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	816
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	11578
0354	6045	PLANE ASPH CONC PAV (2")	SY	8086
0496	6002	REMOV STR (INLET)	EA	3
0496	6004	REMOV STR (SET)	EA	1
0496	6007	REMOV STR (PIPE)	LF	577
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	1700
0542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	LF	3
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	3

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

REMOVAL PLAN
STA 4590+00 TO STA 4600+00

SHEET 20 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	811

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)

EXIST ROW
EXIST DRN ESMNT
TEST HOLE LOCATION
SURVEYED ENVRNMNTL SENSITIVE FEATURE

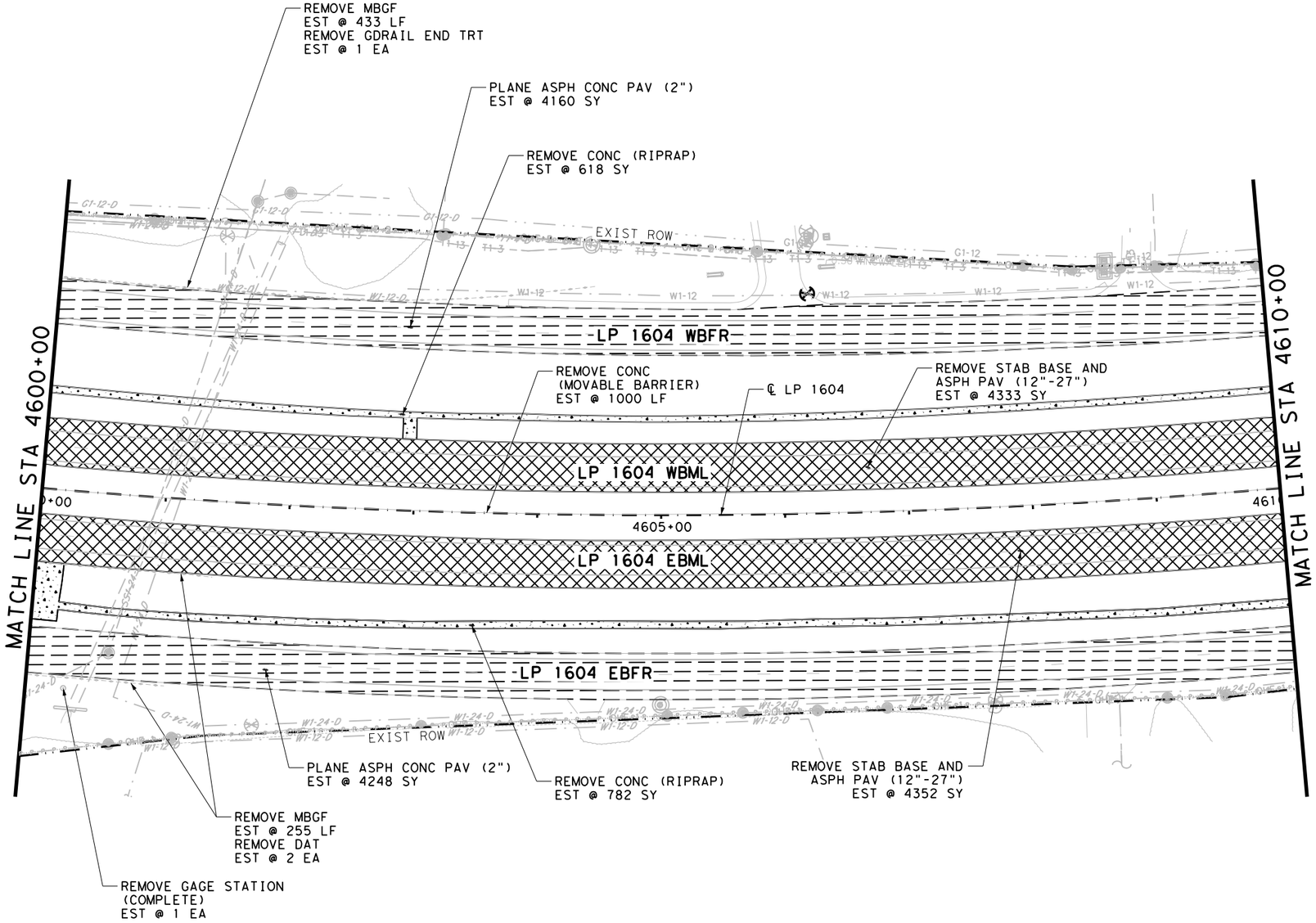
NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

3:42:23 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMWML20.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	1400
0104	6014	REMOVING CONC (FOUNDATIONS)	CY	1.0
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	8685
0354	6045	PLANE ASPH CONC PAV (2")	SY	8408
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	688
0542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	LF	2
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation ©2023

LP 1604

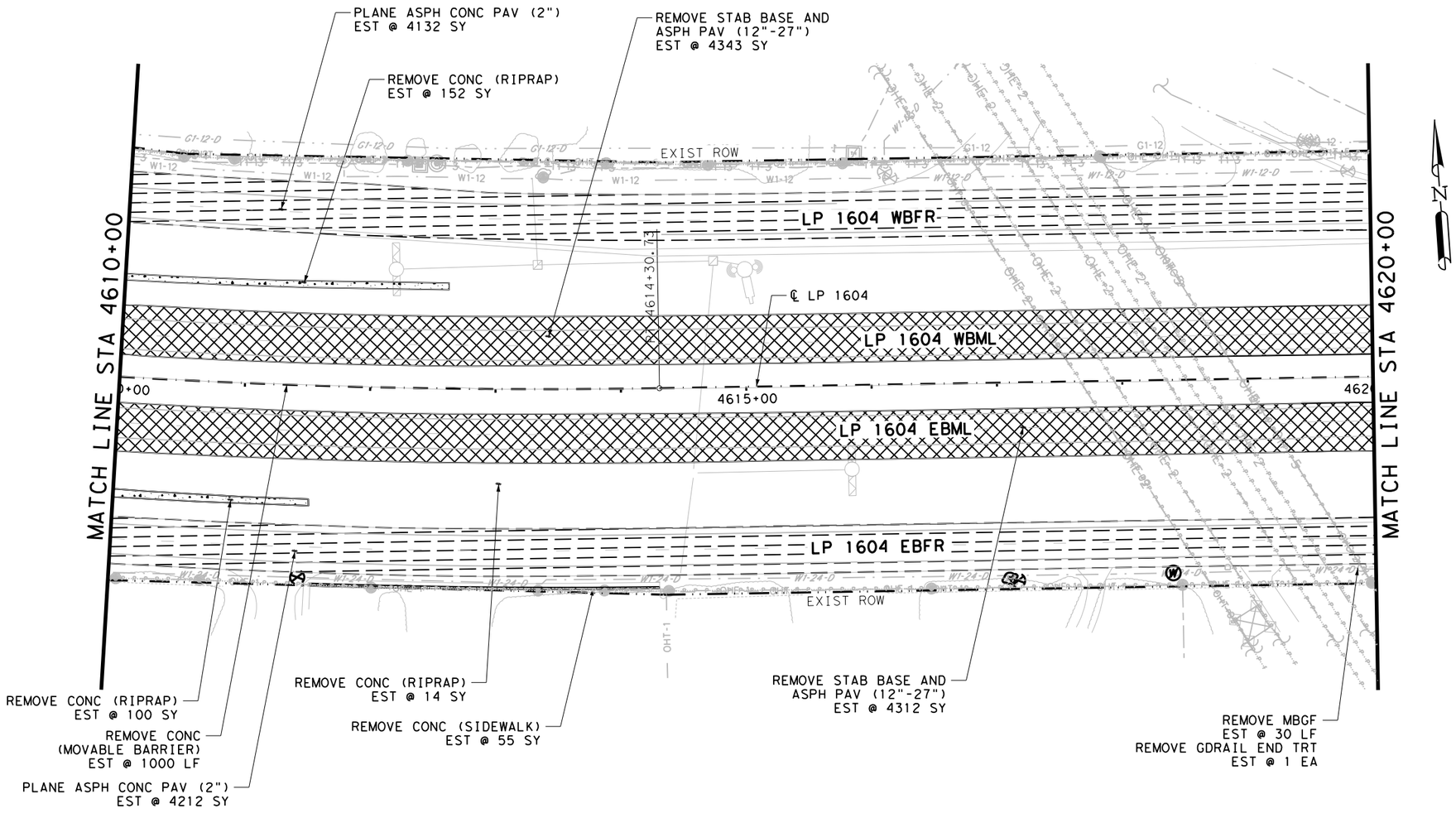
REMOVAL PLAN
STA 4600+00 TO STA 4610+00

SHEET 21 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	812

2/28/2023 3:43:06 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMVML21.dgn

QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	10
0104	6009	REMOVING CONC (RIPRAP)	SY	266
0104	6015	REMOVING CONC (SIDEWALKS)	SY	55
0104	6042	REMOVING CONC (MOVABLE BARRIER)	LF	1000
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	8655
0354	6045	PLANE ASPH CONC PAV (2")	SY	8344
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	30
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1



UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′- HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

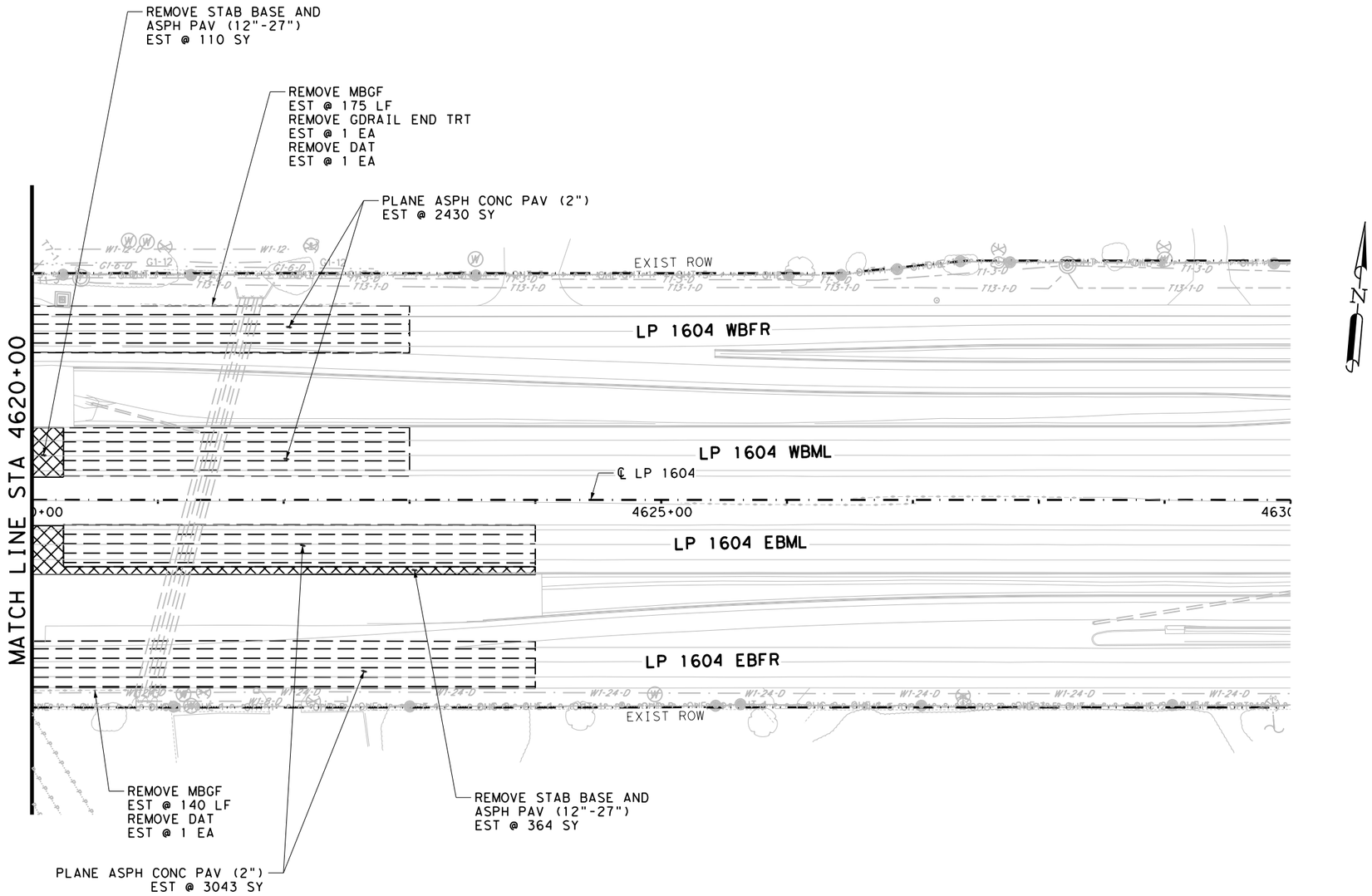
REMOVAL PLAN
STA 4610+00 TO STA 4620+00

SHEET 22 OF 23

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	813

3:43:46 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMVML22.dgn

QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0100	6002	PREPARING ROW	STA	4
0105	6094	REMOV STAB BASE & ASPH PAV(12"-27")	SY	474
0354	6045	PLANE ASPH CONC PAV (2")	SY	5473
0542	6001	REMOVE METAL BEAM GUARD FENCE	LF	315
0542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	LF	2
0544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1



N

UTILITY LEGEND:

- T1-XX – AT&T - D(IN)
- T4-1 – CENTURYLINK
- T5-1 – CHARTER-SPECTRUM
- T7-1 – GRANDE
- T8-1 – CONTERRA
- T9-1 – MCI-VERIZON
- T10-1 – TXDOT TRANSGUIDE
- T11-1 – FIBERLIGHT
- T13-1 – ZAYO
- SI-1-D – TXDOT SIGNALS
- OHT-1 – CHARTER-SPECTRUM
- OHC-3 – AT&T
- OHT-4 – GRANDE
- OHT-5 – CENTURYLINK
- OHT-06 – CONTERRA
- OHT-07 – ZAYO
- OHT-09 – CPS
- OHT-10 – FIBERLIGHT
- OHE-1 – CPS ENERGY
- OHE-2 – CPS ENERGY (TRANSMISSION)
- E1-1 – CPS ENERGY
- E2 – TXDOT
- W1-XX – SAWS WATER-D(IN)
- SS1-XX – SAWS SAN SWR-D(IN)
- G1-XX – CPS ENERGY-D(IN)
- G2-XX – GREY FOREST-D(IN)
- EXIST ROW
- EXIST DRN ESMNT
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

NOTES:

1. FOR WIDENING CONTROL LINE LOCATIONS, SEE ROADWAY PLAN & PROFILE SHEETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVAL ITEMS NECESSARY WITHIN THE RIGHT OF WAY AS SPECIFIED IN ITEM 100 IN THE 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.
3. ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS, FOUND DURING CONSTRUCTION, WITHIN THE RIGHT OF WAY THAT NEED TO BE REMOVED ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE INCLUDED UNDER ITEM 100, PREPARING RIGHT OF WAY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
5. REFER TO "EXISTING SIGN LAYOUT" SHEETS AND "ILLUMINATION LAYOUT" SHEETS FOR FURTHER REMOVAL ITEMS.
6. ALL EXISTING INLETS AND RCP'S TO REMAIN IN PLACE UNLESS NOTED TO BE REMOVED.
7. REMOVAL OF RETAINING WALL SHALL CONSIST OF REMOVING RAIL, COPING, AND WALL PANELS AS SHOWN IN THE RETAINING WALL DETAILS.
8. REMOVE ALL TREES FROM ROW TO ROW, UNLESS THEY ARE MARKED RESERVED. TRIM ALL OVERHANGING BRUSH TO THE FENCE LINES. TREE TRIMMING AND REMOVALS MAY ONLY OCCUR BETWEEN THE MONTHS OF OCTOBER TO FEBRUARY.
9. REMOVAL OF ALL RAIL FOUNDATIONAL ELEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONRETE RAIL REMOVAL.

LEGEND:

- OHWM
- REMOVE STAB BASE & ASPH PVMT (12"-27")
- PLANE ASPH CONC PAV (2")
- REMOVE STRUCTURE (BRIDGE)
- REMOVE STRUCTURE (BRIDGE SLAB)
- REMOVE ASPH/CONC (DRIVEWAY)
- REMOVE CONCRETE (RIPRAP)
- REMOVE CONCRETE (SIDEWALK)
- TREE PROTECTION WITH CONSTRUCTION FENCE

DESIGN

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′ - HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

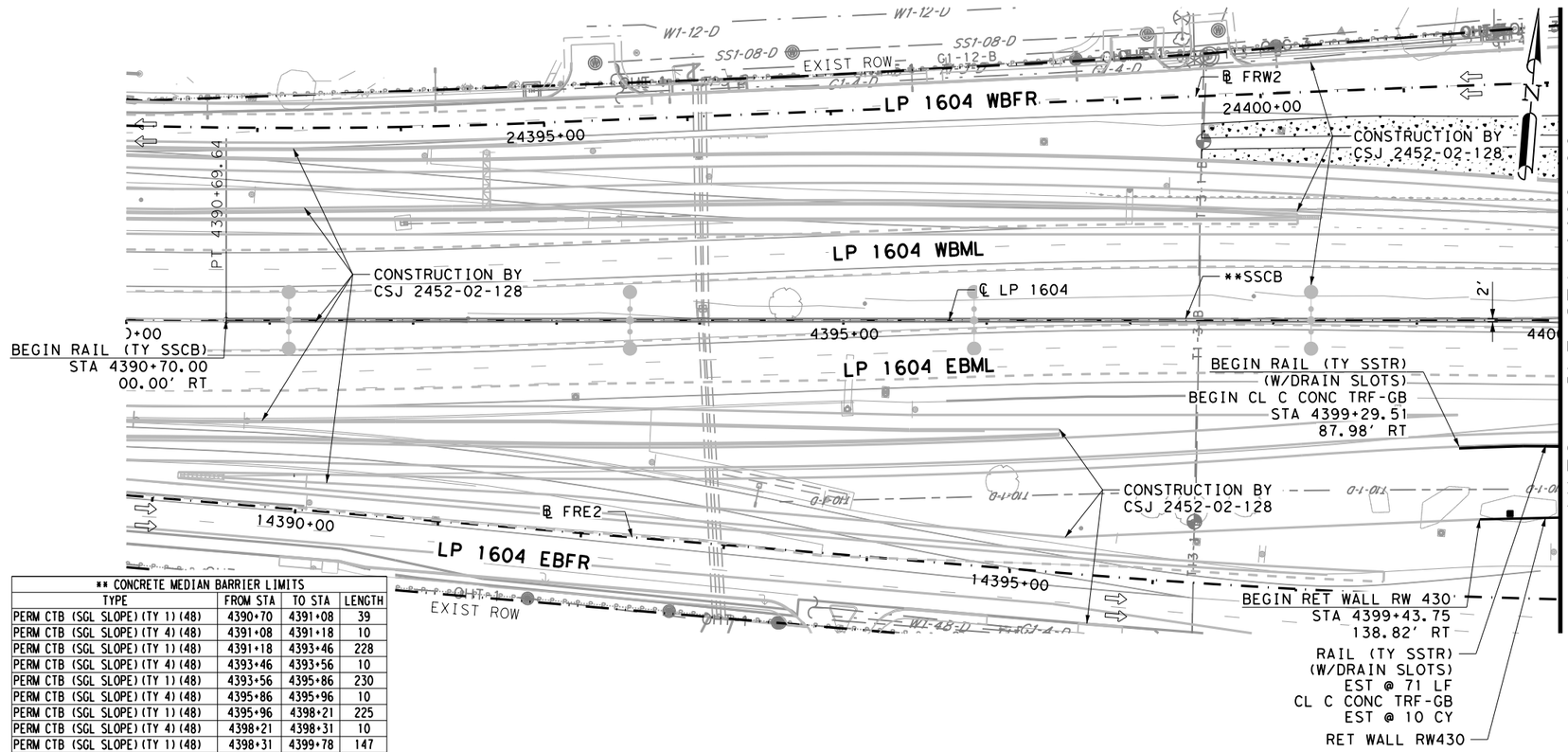
LP 1604

REMOVAL PLAN
STA 4620+00 TO STA 4630+00

SHEET 23 OF 23

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	814

3:44:23 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRMVML23.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4390+70	4391+08	39
PERM CTB (SGL SLOPE) (TY 4) (48)	4391+08	4391+18	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4391+18	4393+46	228
PERM CTB (SGL SLOPE) (TY 4) (48)	4393+46	4393+56	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4393+56	4395+86	230
PERM CTB (SGL SLOPE) (TY 4) (48)	4395+86	4395+96	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4395+96	4398+21	225
PERM CTB (SGL SLOPE) (TY 4) (48)	4398+21	4398+31	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4398+31	4399+78	147
PERM CTB (SGL SLOPE) (TY 3) (48)	4399+78	4400+00	22

NOTES:

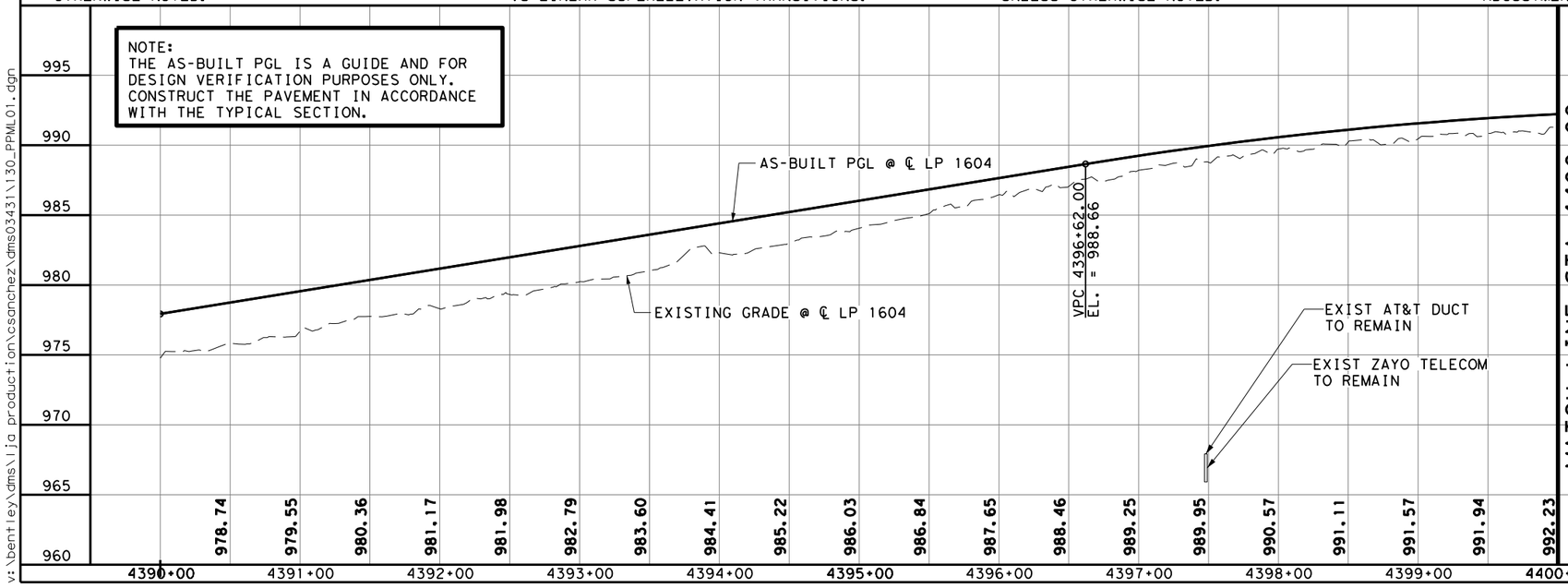
1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	10
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	71
0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	931

* FOR CONTRACTOR'S INFORMATION ONLY



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

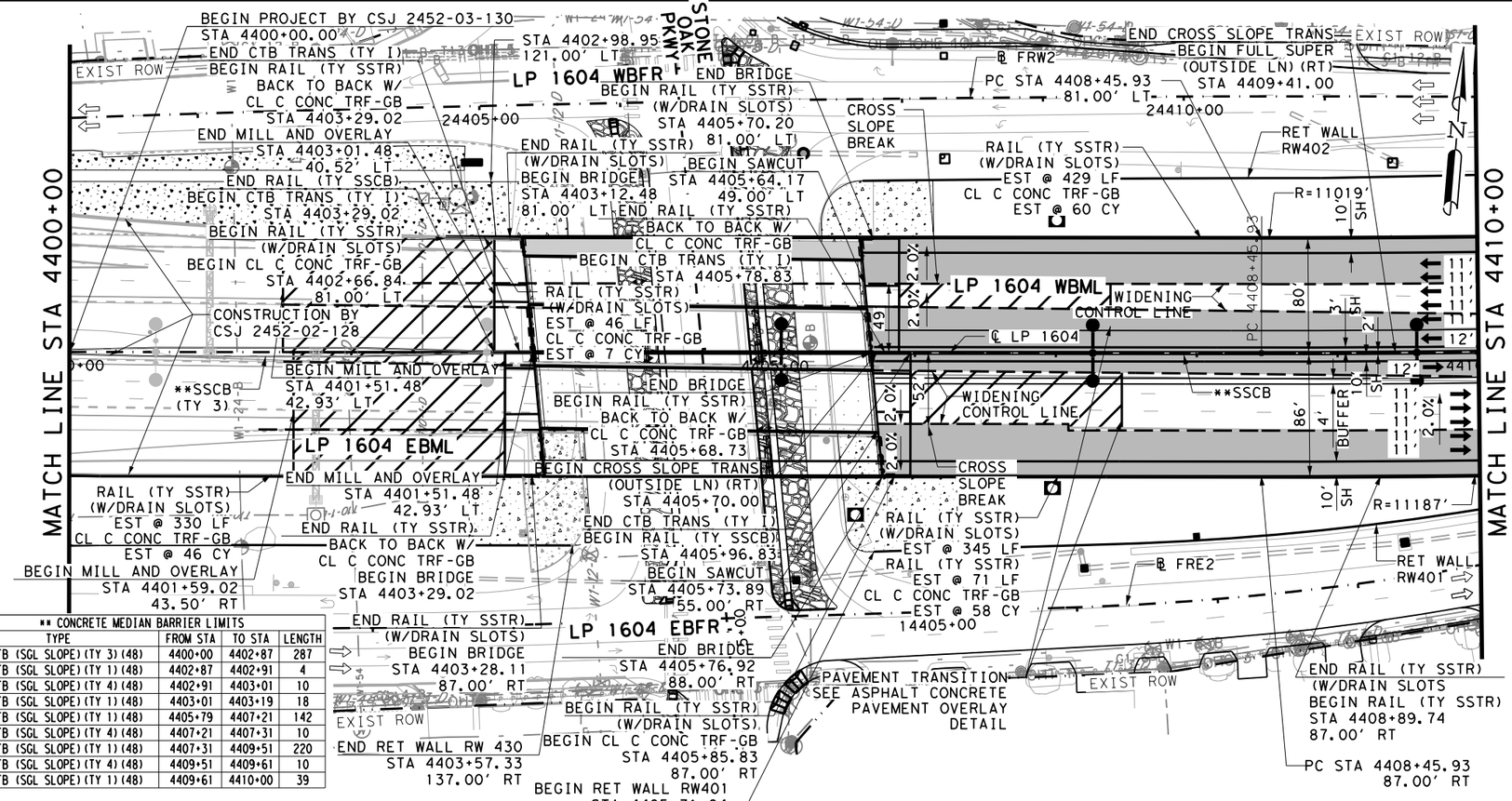
LP 1604

MAINLANE
PLAN AND PROFILE
BEGIN PROJECT TO STA 4400+00

SHEET 1 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	815

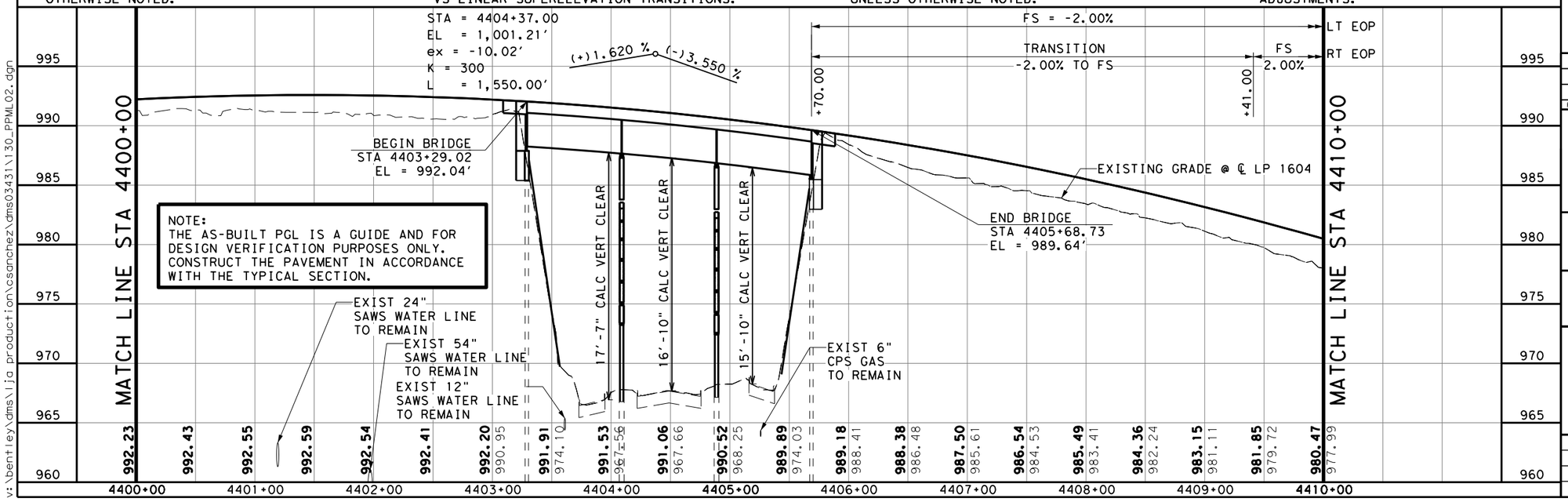
3:45:06 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML01.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 3) (48)	4400+00	4402+87	287
PERM CTB (SGL SLOPE) (TY 1) (48)	4402+87	4402+91	4
PERM CTB (SGL SLOPE) (TY 4) (48)	4402+91	4403+01	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4403+01	4403+19	18
PERM CTB (SGL SLOPE) (TY 1) (48)	4405+79	4407+21	142
PERM CTB (SGL SLOPE) (TY 4) (48)	4407+21	4407+31	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4407+31	4409+51	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4409+51	4409+61	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4409+61	4410+00	39

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130					
	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	5094
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	5286
	0354	6022	PLANE ASPH CONC PAV (0" TO 3")	SY	3753
	0354	6045	PLANE ASPH CONC PAV (2")	SY	1835
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	171
	0450	6023	RAIL (TY SSTR)	LF	71
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	1150
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	423
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	287
	0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	30
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	5286
*	3076	6023	D-GR HMA TY-C PG70-22	SY	10872
*	3076	6066	TACK COAT	SY	27031
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	10872
*	3085	6001	UNDERSEAL COURSE	SY	21744

* FOR CONTRACTOR'S INFORMATION ONLY

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

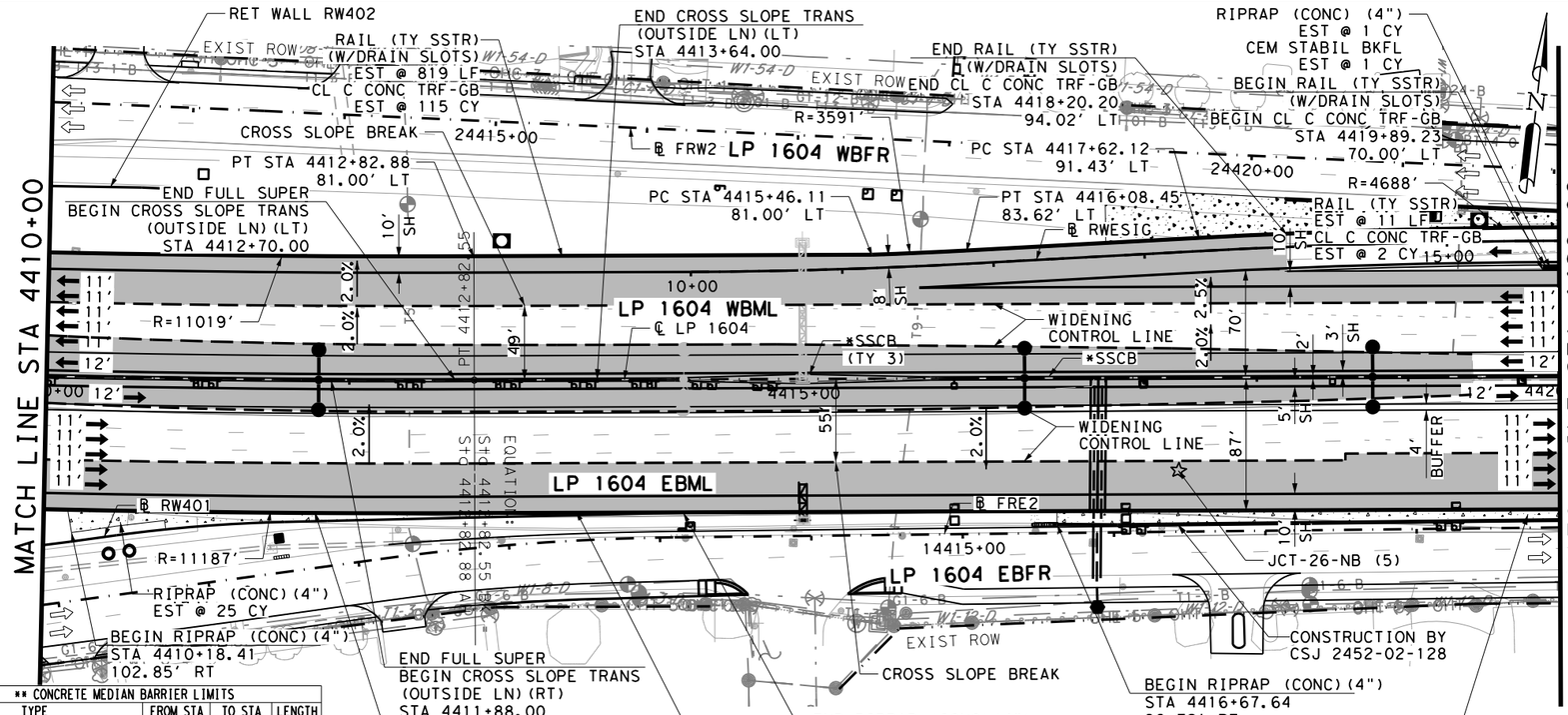
MAINLANE PLAN AND PROFILE

STA 4400+00 TO STA 4410+00

SHEET 2 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	816

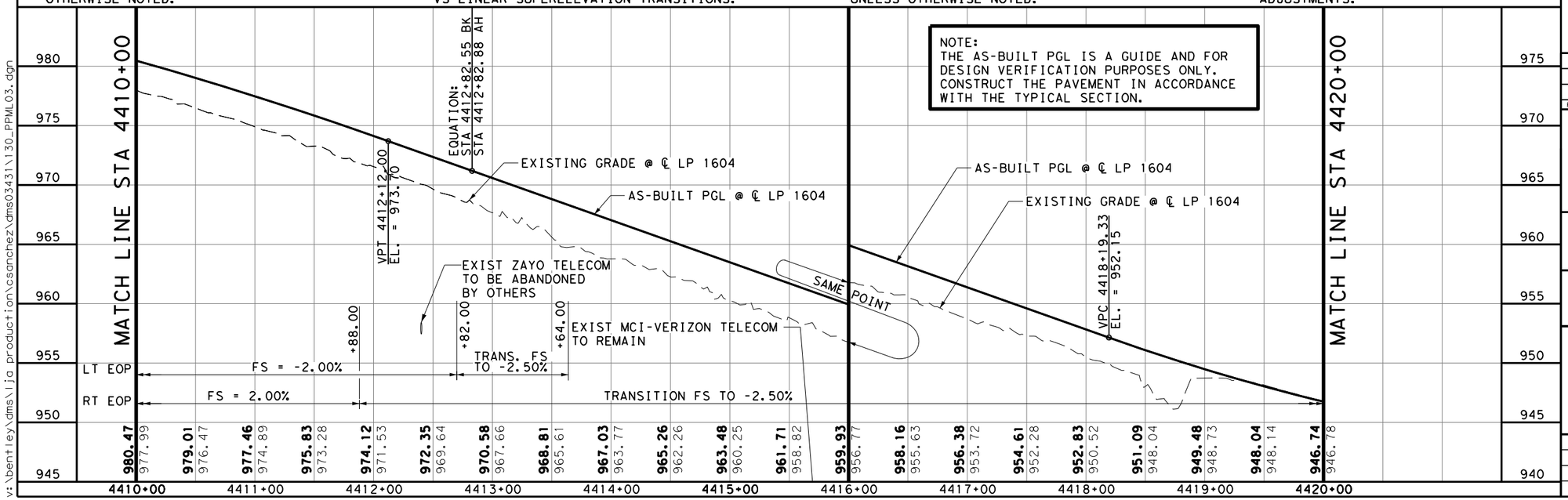
3:45:46 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML02.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4410+00	4411+75	175
PERM CTB (SGL SLOPE) (TY 4) (48)	4411+75	4411+85	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4411+85	4414+16	231
PERM CTB (SGL SLOPE) (TY 3) (48)	4414+16	4415+85	169
PERM CTB (SGL SLOPE) (TY 4) (48)	4416+42	4416+52	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4416+52	4418+72	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4418+72	4418+82	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4418+82	4420+00	118

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	10985
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	11538
	0354	6045	PLANE ASPH CONC PAV (2")	SY	7221
	0400	6005	CEM STABIL BKFL	CY	1
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	165
	0432	6001	RIPRAP (CONC) (4 IN)	CY	59
	0450	6023	RAIL (TY SSTR)	LF	363
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	819
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	744
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	169
	0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	30
	0540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	25
	0540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
	0544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	11538
*	3076	6023	D-GR HMA TY-C PG70-22	SY	18628
*	3076	6066	TACK COAT	SY	48794
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	18628
*	3085	6001	UNDERSEAL COURSE	SY	37256

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

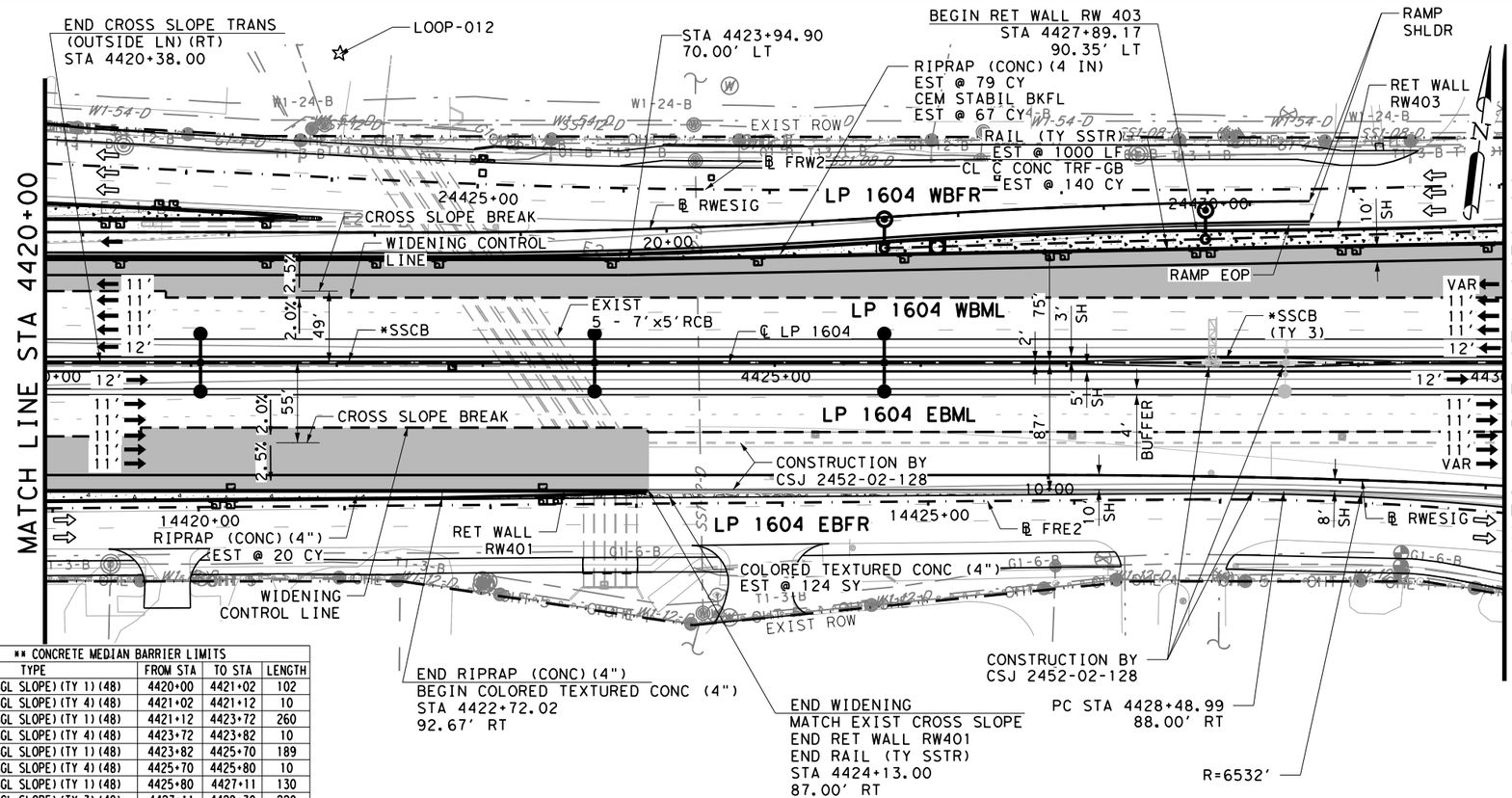
LP 1604

MAINLANE
PLAN AND PROFILE
STA 4410+00 TO STA 4420+00

SHEET 3 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	817

2/28/2023 3:46:28 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML03.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4420+00	4421+02	102
PERM CTB (SGL SLOPE) (TY 4) (48)	4421+02	4421+12	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4421+12	4423+72	260
PERM CTB (SGL SLOPE) (TY 4) (48)	4423+72	4423+82	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4423+82	4425+70	189
PERM CTB (SGL SLOPE) (TY 4) (48)	4425+70	4425+80	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4425+80	4427+11	130
PERM CTB (SGL SLOPE) (TY 3) (48)	4427+11	4429+30	220
PERM CTB (SGL SLOPE) (TY 1) (48)	4429+30	4430+00	70

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

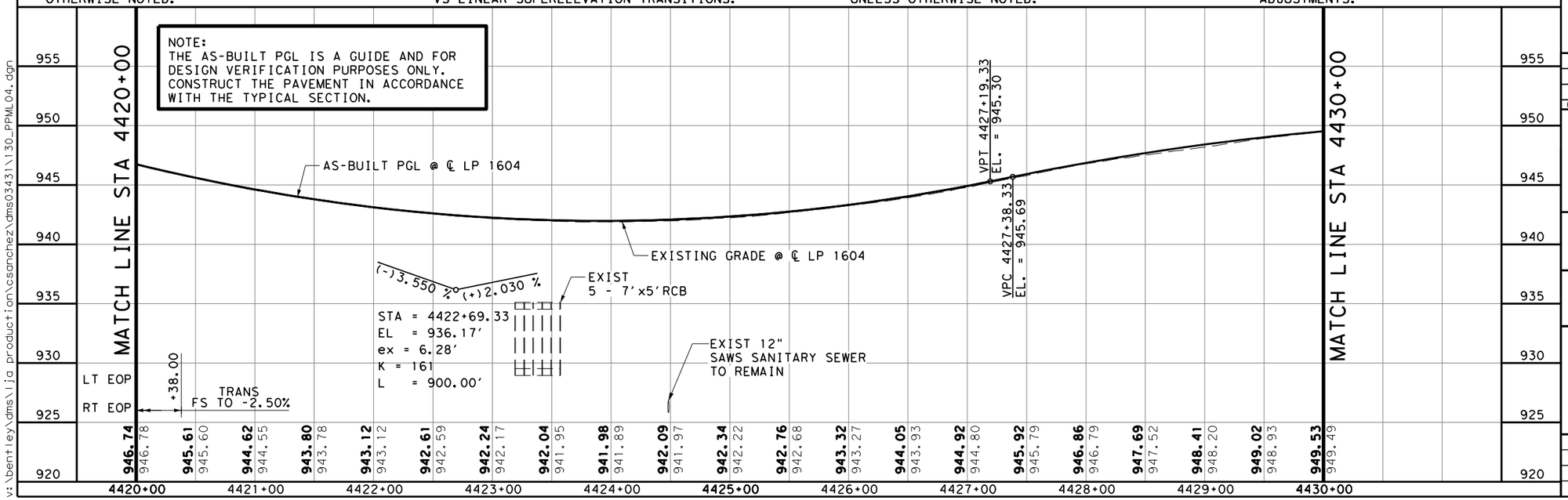
LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- CURVE ID LABEL (XXX-X)
- DRIVEWAY ID (XXXXX)
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	4683
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	5065
	0354	6045	PLANE ASPH CONC PAV (2")	SY	12787
	0400	6005	CEM STABIL BKFL	CY	67
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	140
	0432	6001	RIPRAP (CONC) (4 IN)	CY	99
	0450	6023	RAIL (TY SSTR)	LF	1000
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	751
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	220
	0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	30
	0528	6001	COLORED TEXTURED CONC (4")	SY	124
	0540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	25
	0540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
	0544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	5065
*	3076	6023	D-GR HMA TY-C PG70-22	SY	17852
*	3076	6066	TACK COAT	SY	40769
	3077	6033	SP MIXES SP C SAC A PG76-22	SY	17852

* FOR CONTRACTOR'S INFORMATION ONLY



2/28/2023
3:47:10 PM
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML04.dgn

DESIGN
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

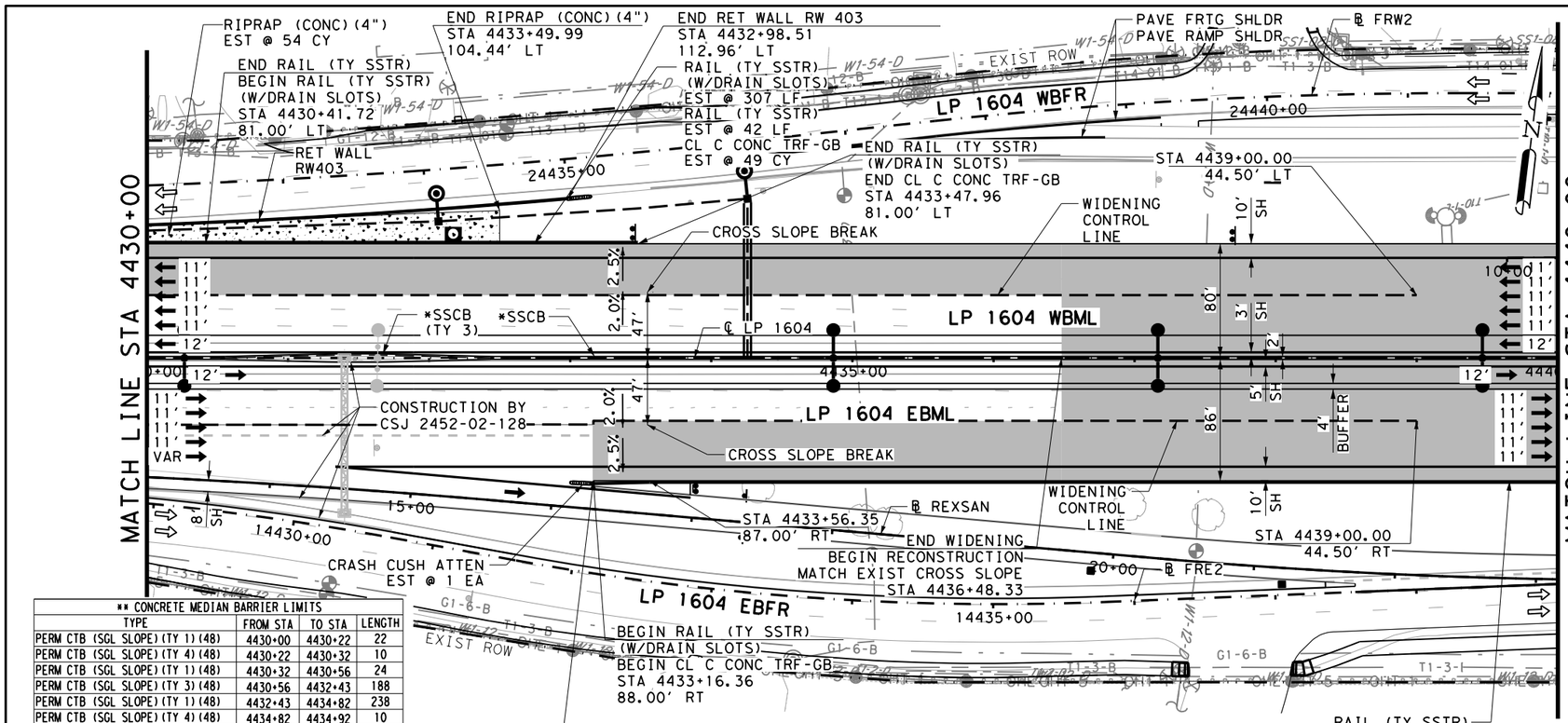
LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4420+00 TO STA 4430+00

SHEET 4 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	818



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4430+00	4430+22	22
PERM CTB (SGL SLOPE) (TY 4) (48)	4430+22	4430+32	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4430+32	4430+56	24
PERM CTB (SGL SLOPE) (TY 3) (48)	4430+56	4432+43	188
PERM CTB (SGL SLOPE) (TY 1) (48)	4432+43	4434+82	238
PERM CTB (SGL SLOPE) (TY 4) (48)	4434+82	4434+92	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4434+92	4437+12	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4437+12	4437+22	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4437+22	4439+42	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4439+42	4439+52	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4439+52	4440+00	48

NOTES:

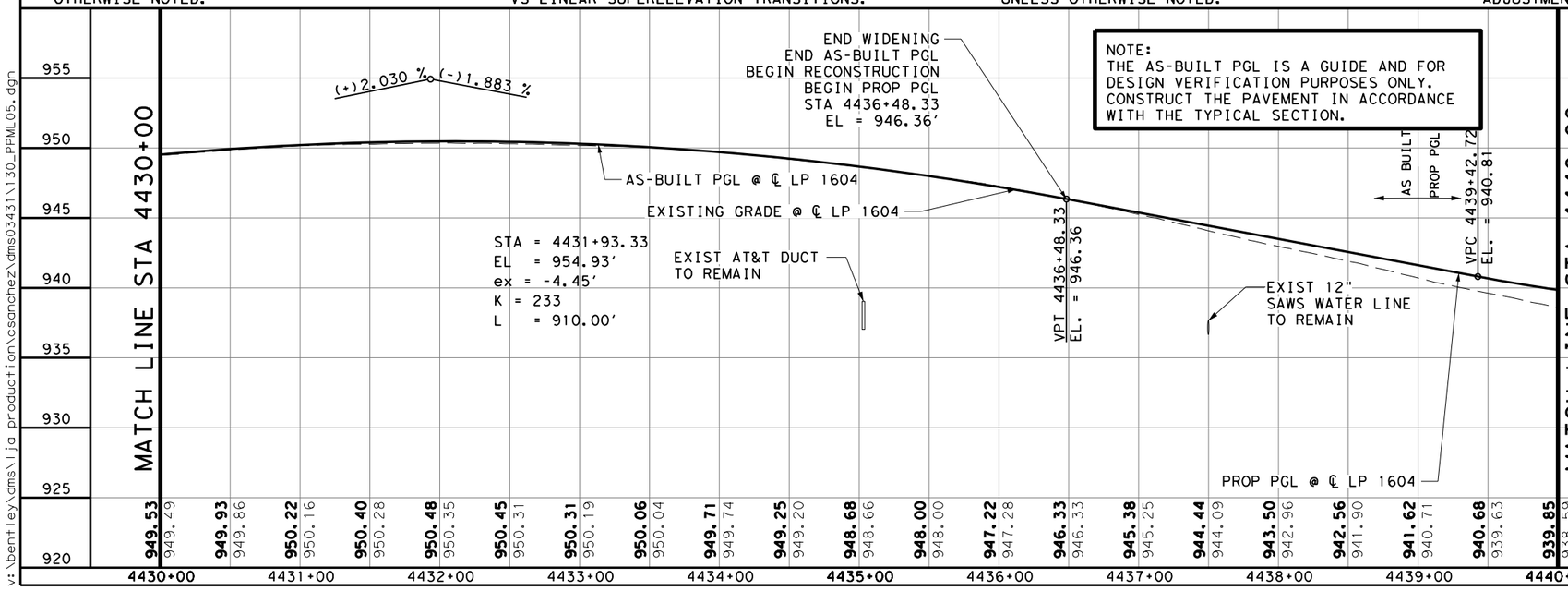
1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	10653
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	10761
0354	6045	PLANE ASPH CONC PAV (2")	SY	10943
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	145
0432	6001	RIPRAP (CONC) (4 IN)	CY	54
0450	6023	RAIL (TY SSTR)	LF	42
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	991
0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	772
0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	188
0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	40
0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
3076	6001	D-GR HMA TY-B PG 64-22	SY	10761
3076	6023	D-GR HMA TY-C PG70-22	SY	19216
3076	6066	TACK COAT	SY	49193
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	19216
3085	6001	UNDERSEAL COURSE	SY	38432

* FOR CONTRACTOR'S INFORMATION ONLY



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

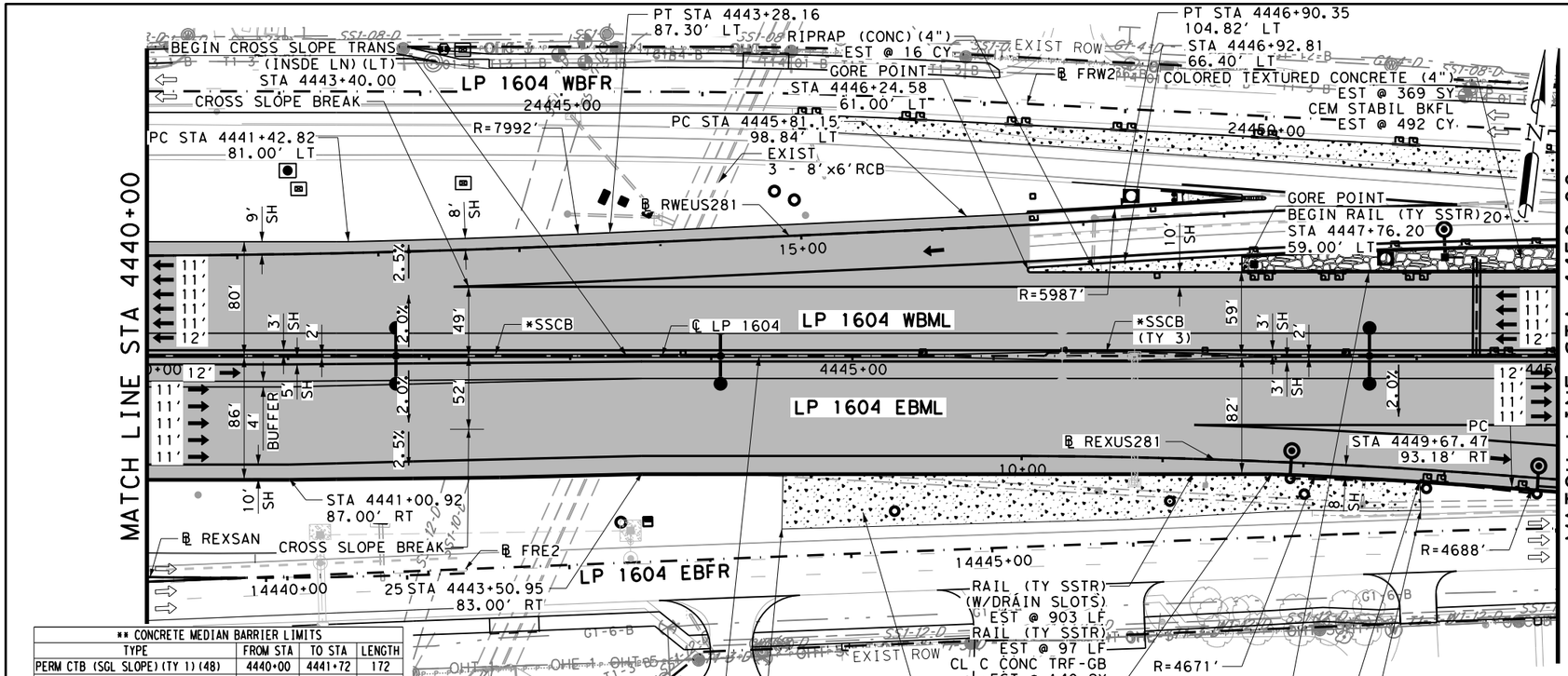
©2023 Texas Department of Transportation

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4430+00 TO STA 4440+00

SHEET 5 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	819

3:47:52 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML05.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4440+00	4441+72	172
PERM CTB (SGL SLOPE) (TY 4) (48)	4441+72	4441+82	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4441+82	4444+02	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4444+02	4444+12	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4444+12	4445+69	157
PERM CTB (SGL SLOPE) (TY 3) (48)	4445+69	4447+85	216
PERM CTB (SGL SLOPE) (TY 1) (48)	4447+85	4448+62	77
PERM CTB (SGL SLOPE) (TY 4) (48)	4448+62	4448+72	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4448+72	4450+00	128

NOTES:

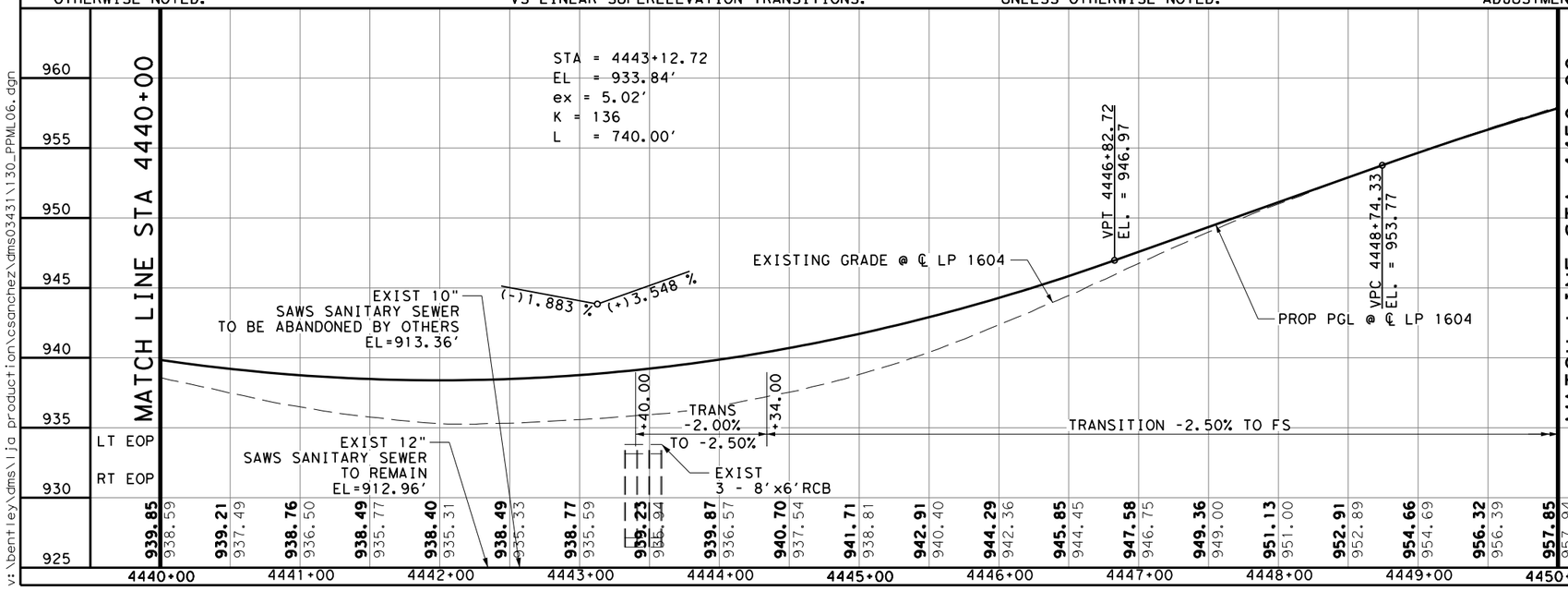
1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	18037
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	18037
0354	6045	PLANE ASPH CONC PAV (2")	SY	18037
0400	6005	CEM STABIL BKFL	CY	492
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	171
0432	6001	RIPRAP (CONC) (4 IN)	CY	190
0450	6023	RAIL (TY SSTR)	LF	321
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	903
0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	754
0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	216
0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	30
0528	6001	COLORED TEXTURED CONC (4")	SY	369
* 3076	6001	D-GR HMA TY-B PG 64-22	SY	18037
* 3076	6023	D-GR HMA TY-C PG70-22	SY	18037
* 3076	6066	TACK COAT	SY	54111
* 3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	18037
* 3085	6001	UNDERSEAL COURSE	SY	36074

* FOR CONTRACTOR'S INFORMATION ONLY



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

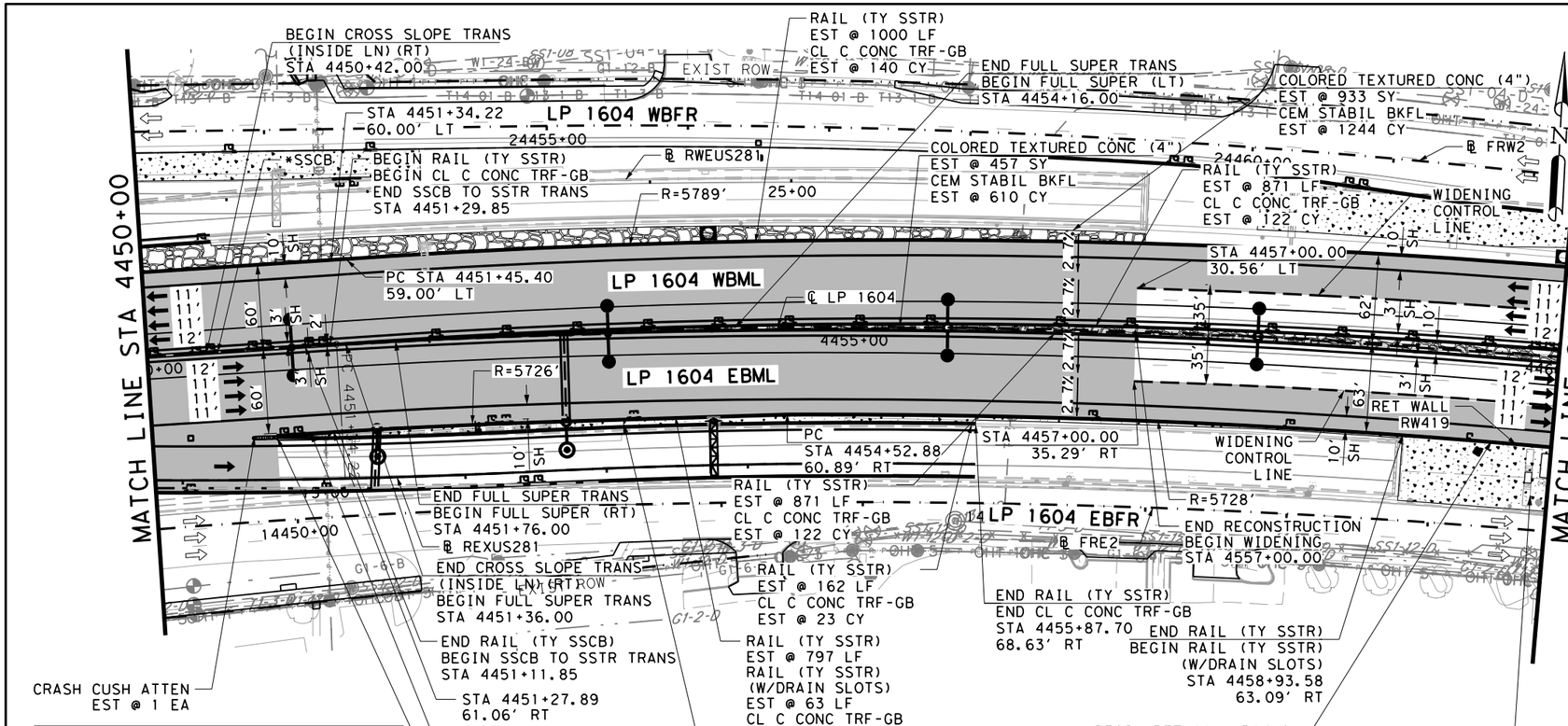
©2023 Texas Department of Transportation

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4440+00 TO STA 4450+00

SHEET 6 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	820

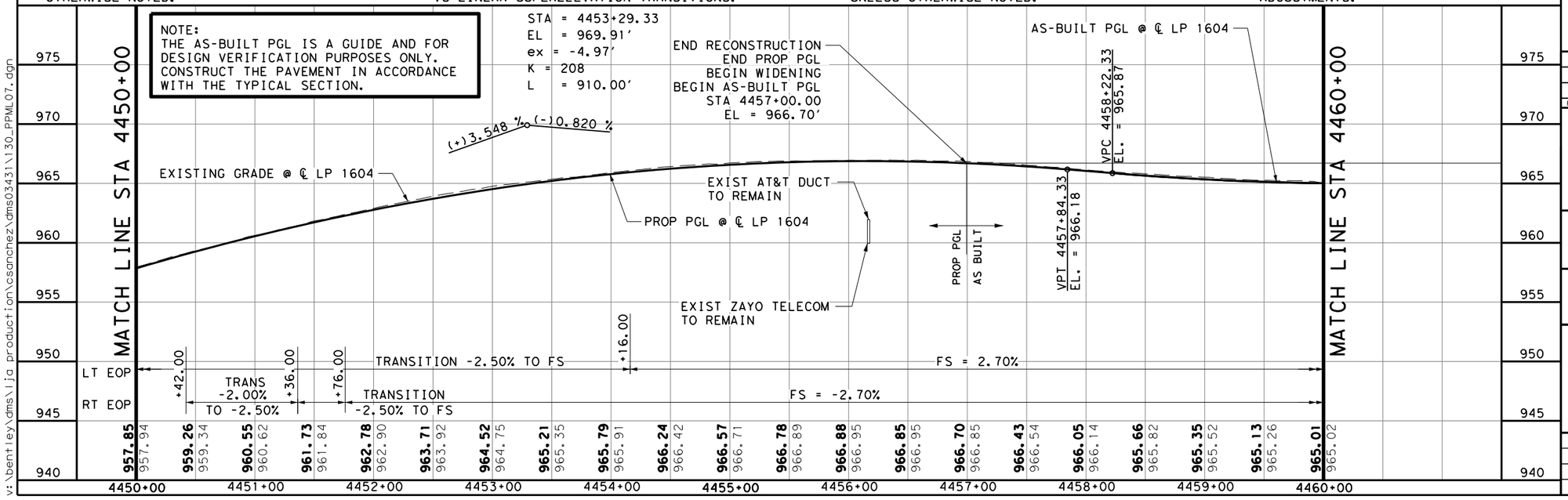
3:48:39 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML06.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4450+00	4450+97	97
PERM CTB (SGL SLOPE) (TY 4) (48)	4450+97	4451+07	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4451+07	4451+30	22

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- CURVE ID LABEL (XXX-X)
- DRIVEWAY ID (XXXXX)
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	11510
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	11576
	0354	6045	PLANE ASPH CONC PAV (2")	SY	11574
	0400	6005	CEM STABIL BKFL	CY	1850
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	527
	0432	6001	RIPRAP (CONC) (4 IN)	CY	99
	0450	6023	RAIL (TY SSTR)	LF	3701
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	63
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	119
	0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	10
	0528	6001	COLORED TEXTURED CONC (4")	SY	1390
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	11576
*	3076	6023	D-GR HMA TY-C PG70-22	SY	13534
*	3076	6066	TACK COAT	SY	38644
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	13534
*	3085	6001	UNDERSEAL COURSE	SY	27068

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

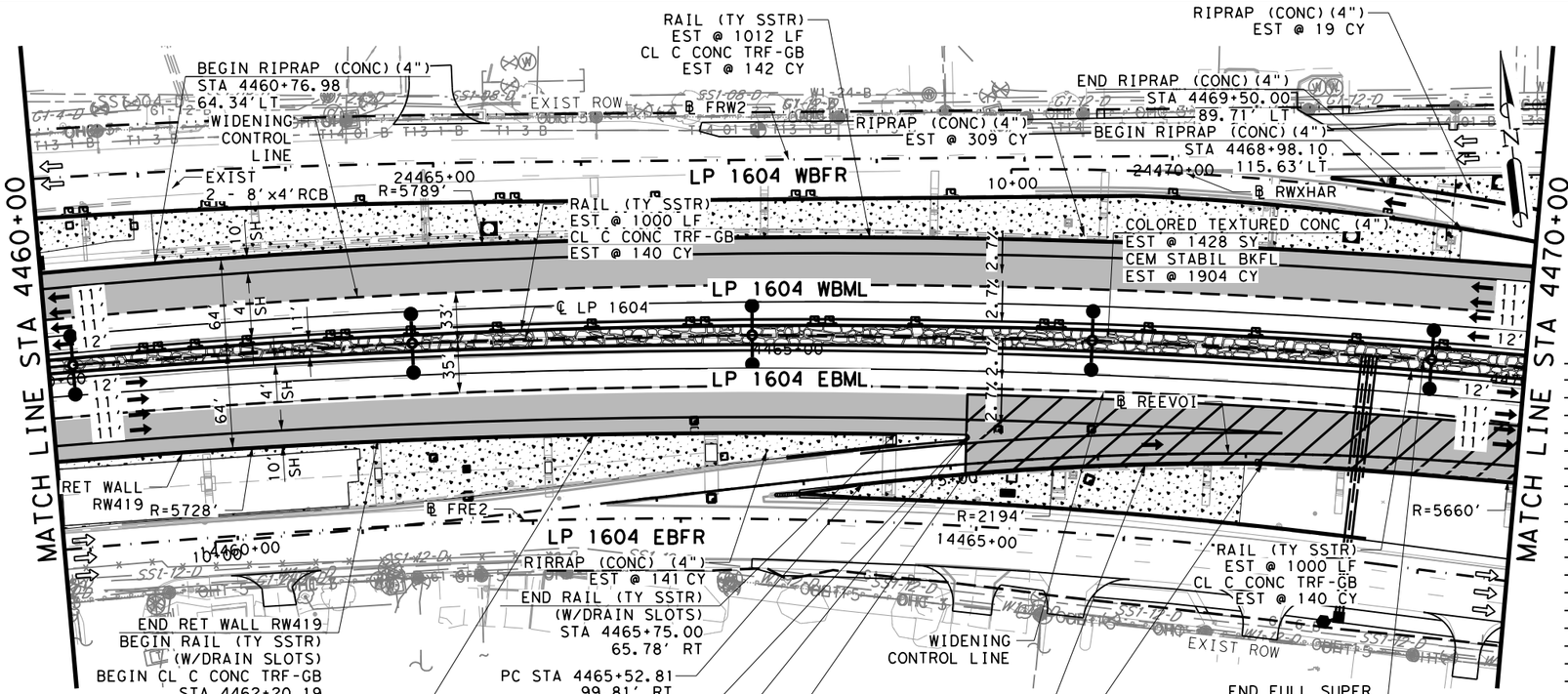
LJA Engineering, Inc.
FRN-F-1386

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4450+00 TO STA 4460+00

SHEET 7 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	821

3:49:24 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML07.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

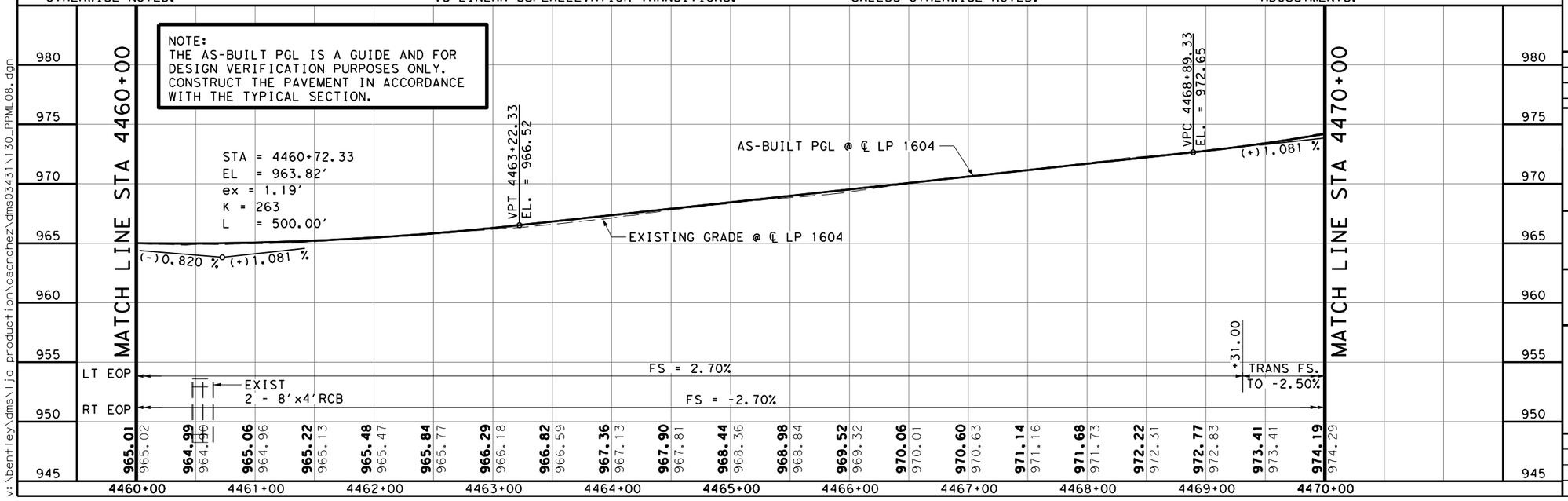
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	5189
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	7082
	0354	6045	PLANE ASPH CONC PAV (2")	SY	7835
	0400	6005	CEM STABIL BKFL	CY	1904
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	523
	0432	6001	RIPRAP (CONC)(4 IN)	CY	469
	0450	6023	RAIL (TY SSTR)	LF	3012
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	723
	0528	6001	COLORED TEXTURED CONC (4")	SY	1428
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	7082
*	3076	6023	D-GR HMA TY-C PG70-22	SY	15119
*	3076	6066	TACK COAT	SY	37320
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	15119
*	3085	6001	UNDERSEAL COURSE	SY	30238

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

DESIGN

R. MATTHEW ESTES, 101558, LICENSED PROFESSIONAL ENGINEER, STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, 84722, LICENSED PROFESSIONAL ENGINEER, STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

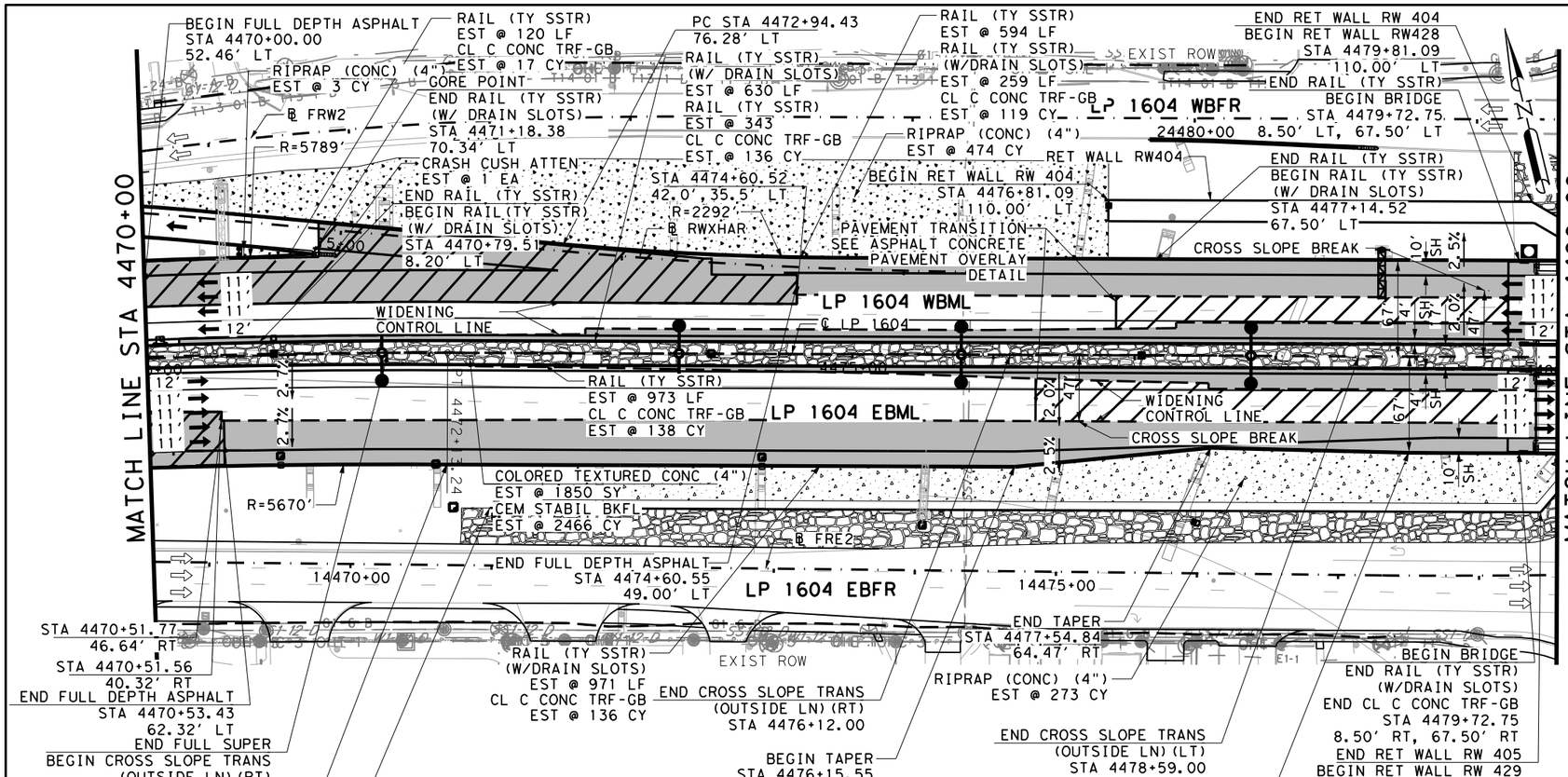
MAINLANE PLAN AND PROFILE

STA 4460+00 TO STA 4470+00

SHEET 8 OF 25

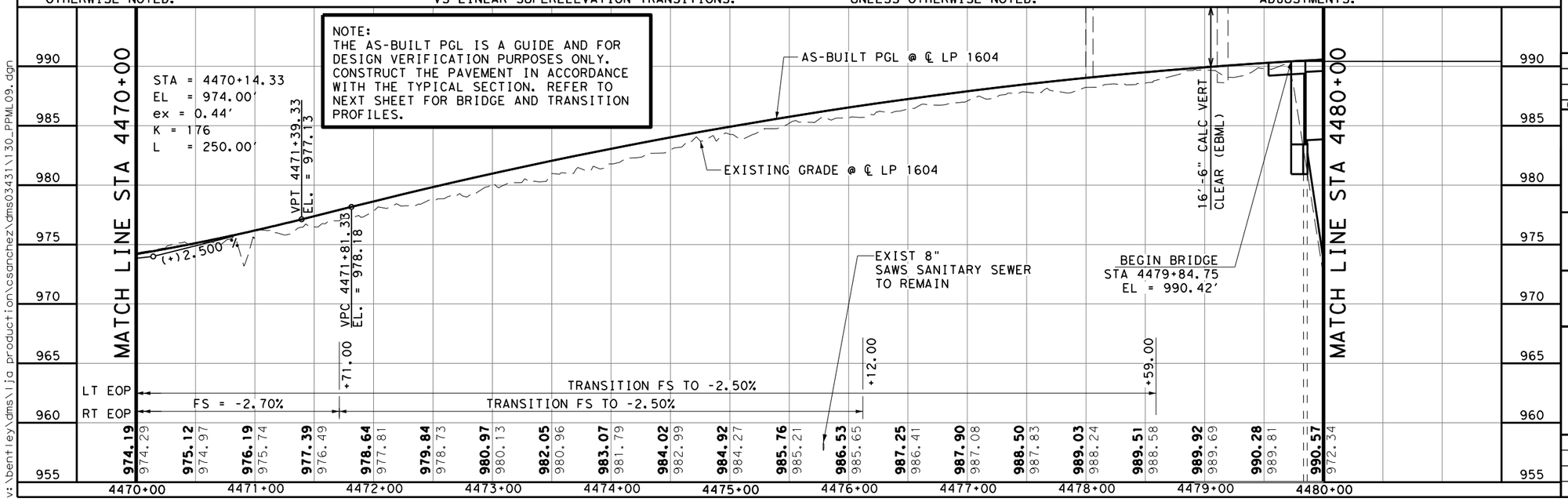
FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	822

2/28/2023 3:50:09 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML08.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
SI-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	5704
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	8208
	0354	6022	PLANE ASPH CONC PAV(0" TO 3")	SY	1536
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4231
	0400	6005	CEM STABIL BKFL	CY	2466
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	528
	0432	6001	RIPRAP (CONC) (4 IN)	CY	750
	0450	6023	RAIL (TY SSTR)	LF	1910
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	1860
	0528	6001	COLORED TEXTURED CONC (4")	SY	1850
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	8208
*	3076	6023	D-GR HMA TY-C PG70-22	SY	13976
*	3076	6066	TACK COAT	SY	36161
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	13976
*	3085	6001	UNDERSEAL COURSE	SY	27952

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

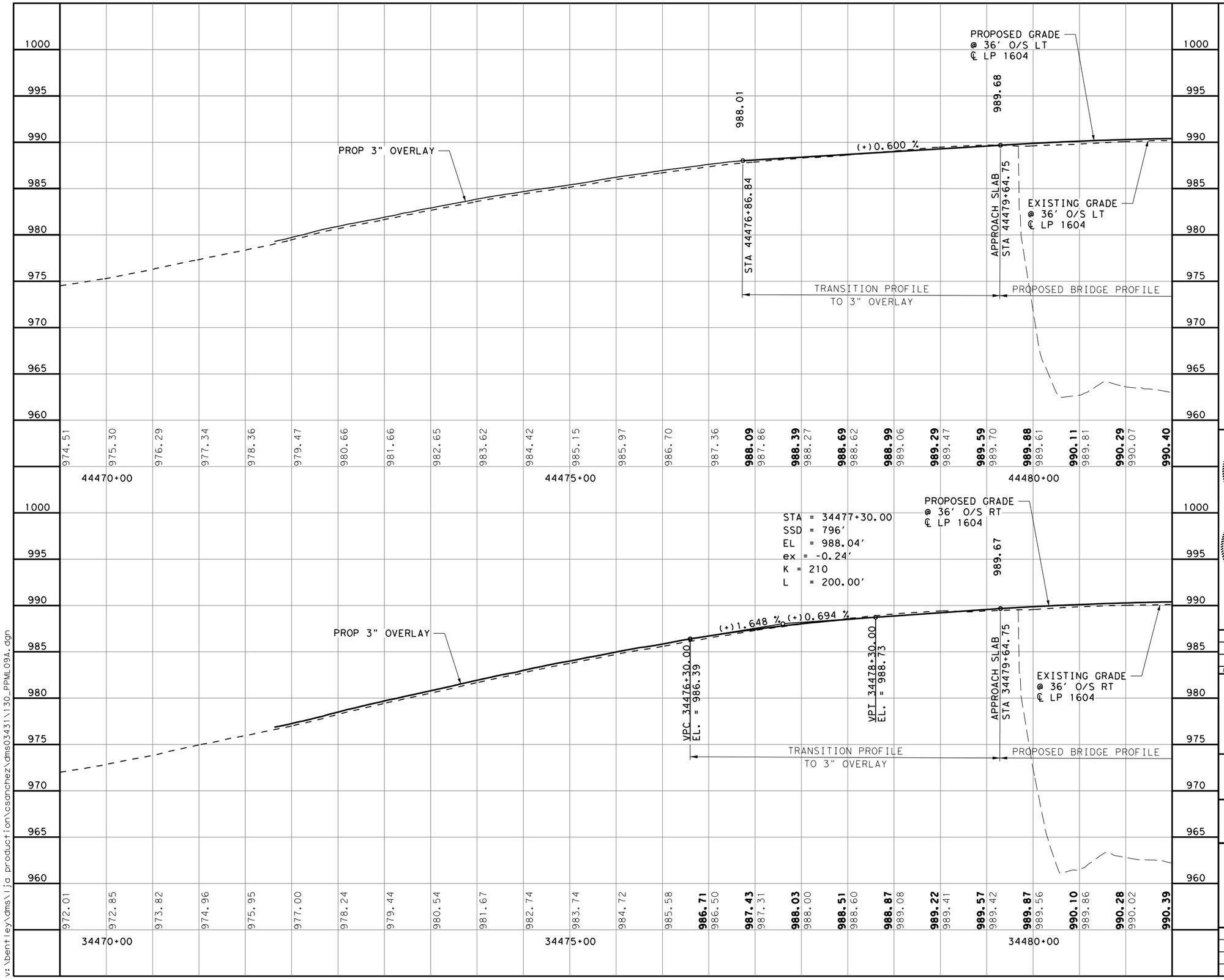
LP 1604

MAINLANE
PLAN AND PROFILE
STA 4470+00 TO STA 4480+00

SHEET 9 OF 25

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	823

3:50:54 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PML09.dgn



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

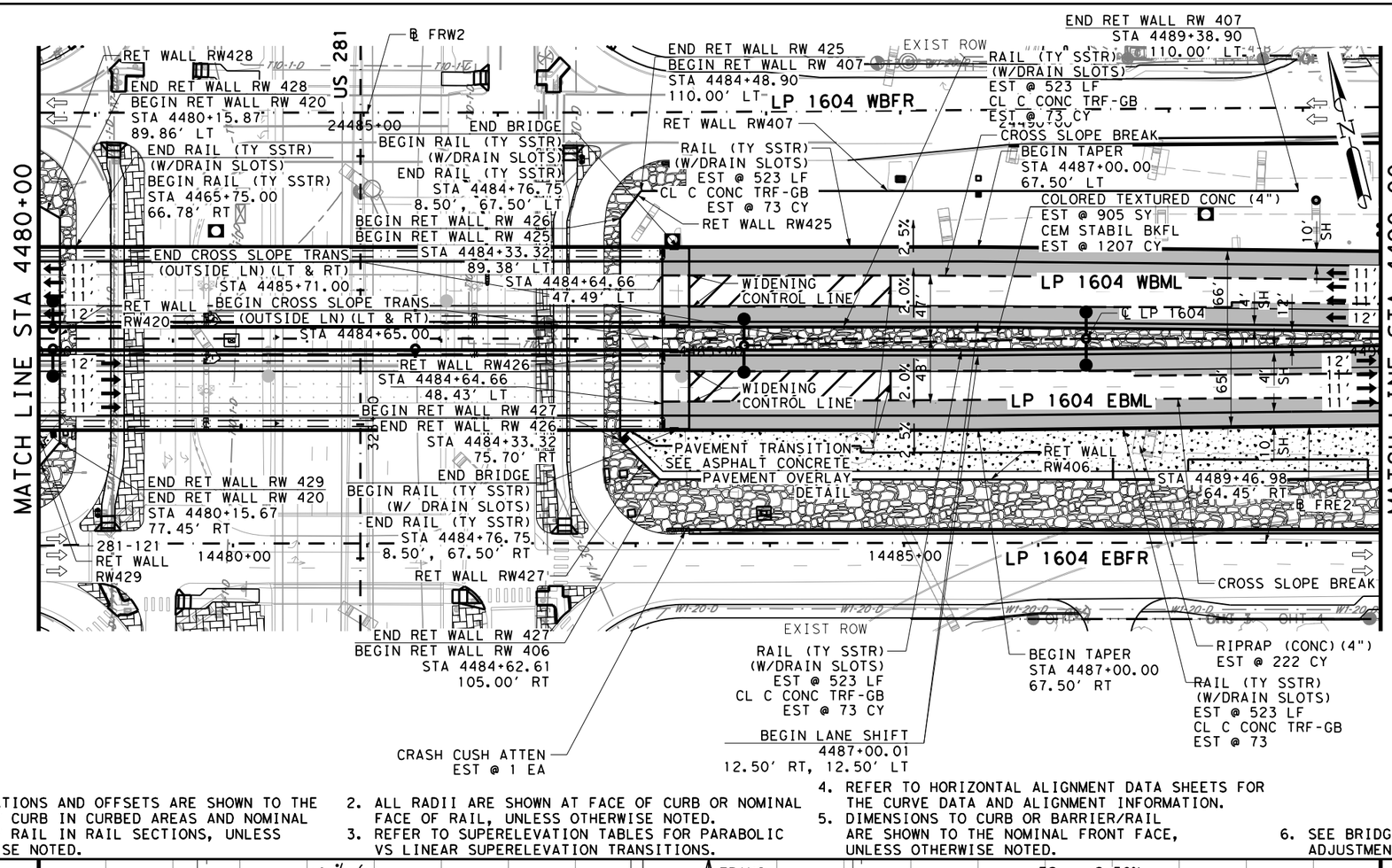
LP 1604

MAINLANE BRIDGE & TRANSITION PROFILES

SHEET 9A OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	824

3:51:36 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML09A.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

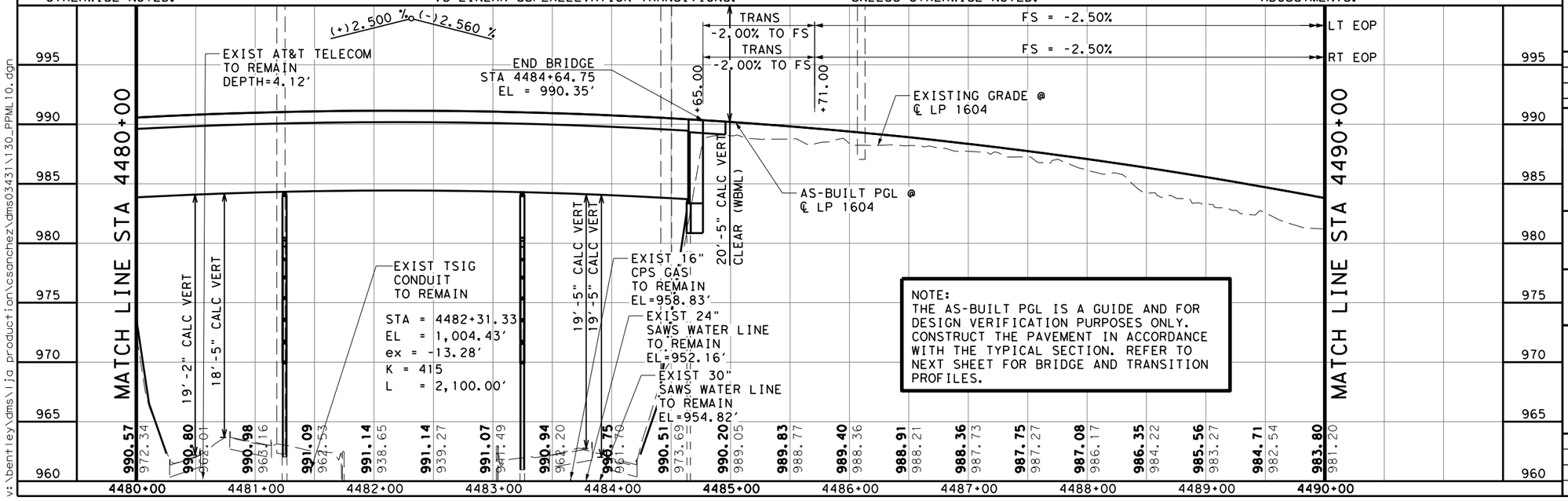
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	4044
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	4283
	0354	6021	PLANE ASPH CONC PAV(0" TO 2")	SY	755
	0354	6045	PLANE ASPH CONC PAV (2")	SY	1762
	0400	6005	CEM STABIL BKFL	CY	1207
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	293
	0432	6001	RIPRAP (CONC)(4 IN)	CY	222
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	2092
	0528	6001	COLORED TEXTURED CONC (4")	SY	905
	0540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	50
	0540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	2
	0544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	2
	0545	6007	CRASH CUSH ATTEN (INSTL)(L)(N)(TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	4283
*	3076	6023	D-GR HMA TY-C PG70-22	SY	7036
*	3076	6066	TACK COAT	SY	18355
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	7036
	3085	6001	UNDERSEAL COURSE	SY	14072

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
THE AS-BUILT PGL IS A GUIDE AND FOR DESIGN VERIFICATION PURPOSES ONLY. CONSTRUCT THE PAVEMENT IN ACCORDANCE WITH THE TYPICAL SECTION. REFER TO NEXT SHEET FOR BRIDGE AND TRANSITION PROFILES.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

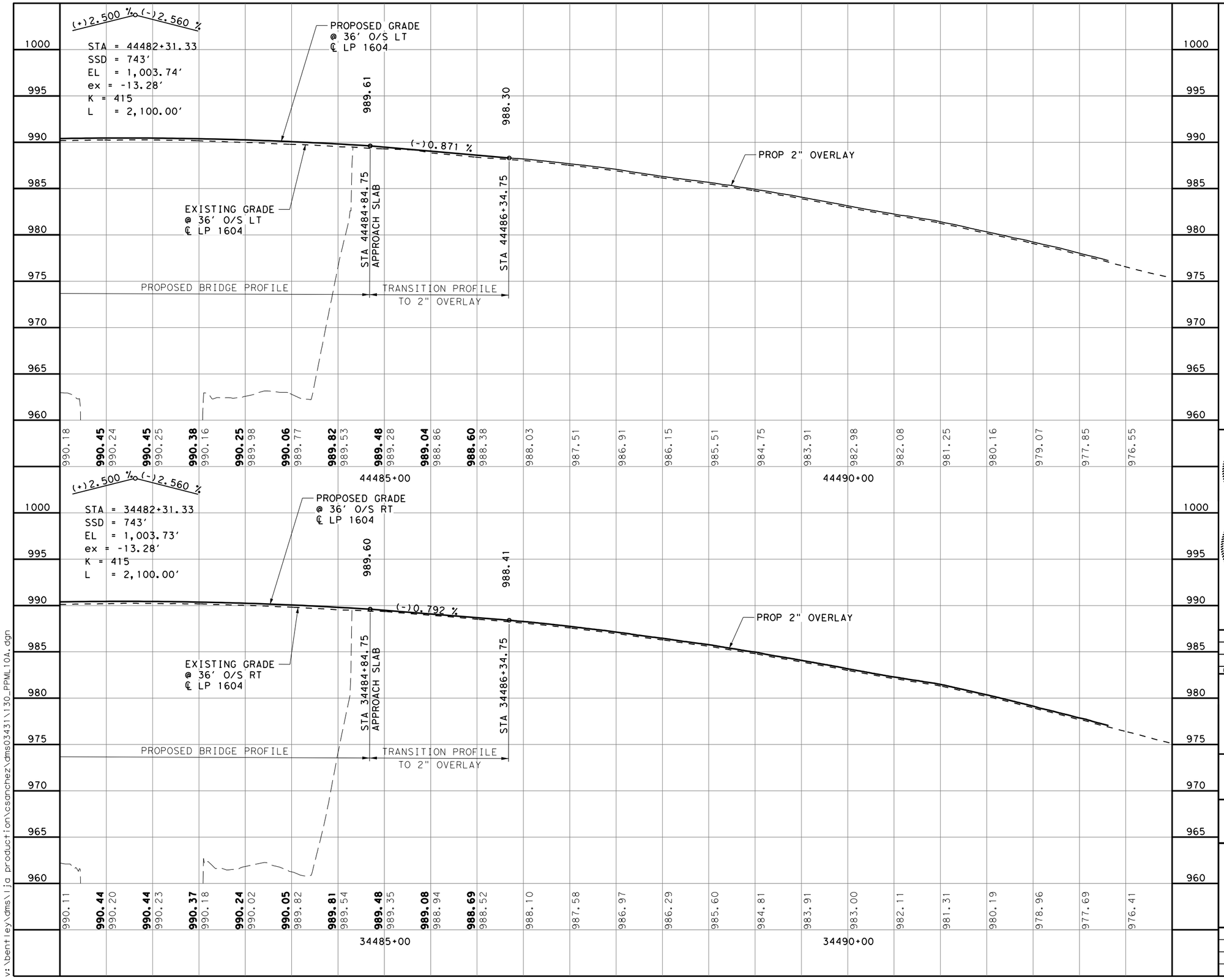
MAINLANE PLAN AND PROFILE

STA 4480+00 TO STA 4490+00

SHEET 10 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	825

3:52:30 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML10.dgn



DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

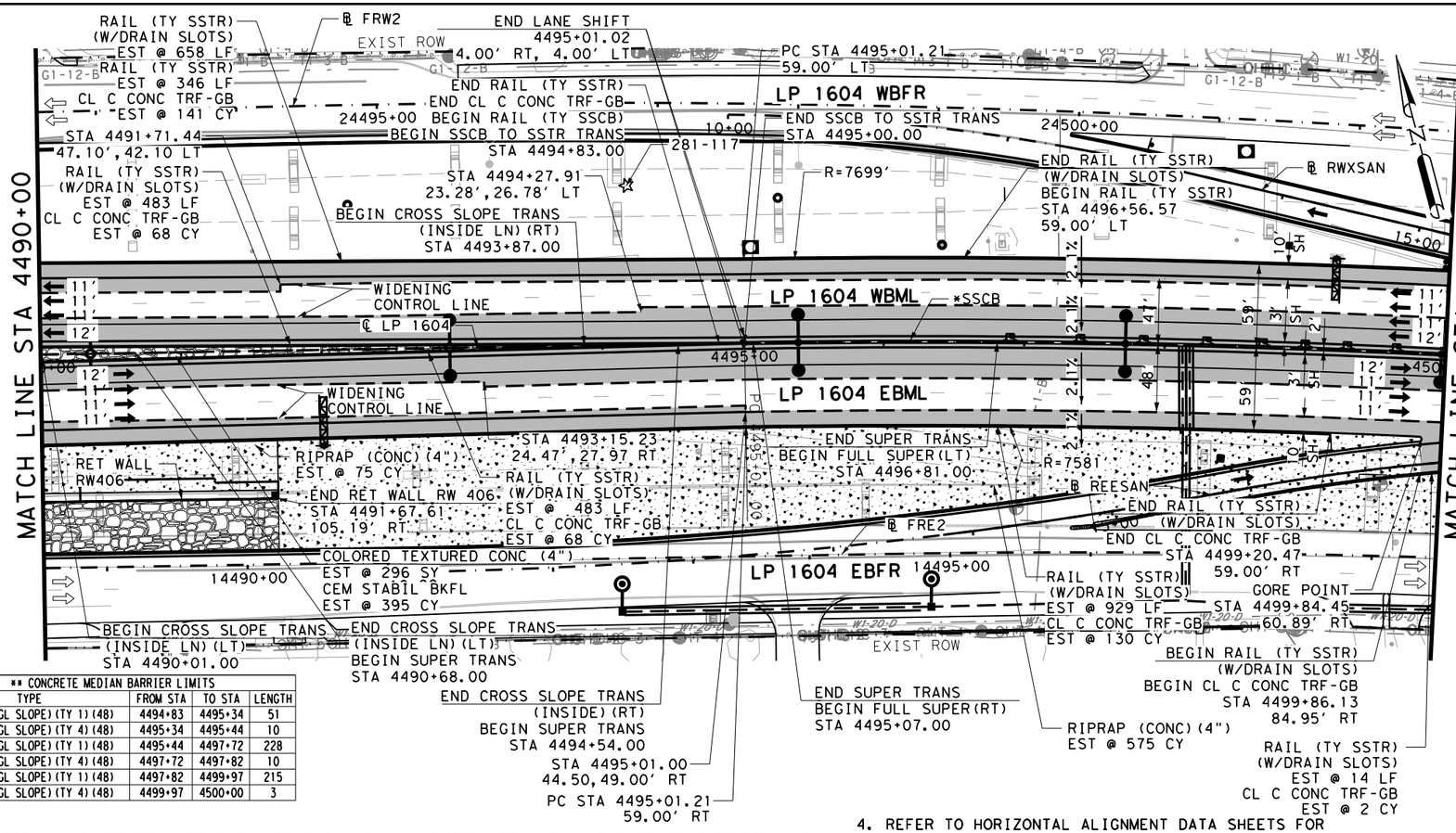
LP 1604

MAINLANE BRIDGE & TRANSITION PROFILES

SHEET 10A OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	826

3:53:14 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML10A.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4494+83	4495+34	51
PERM CTB (SGL SLOPE) (TY 4) (48)	4495+34	4495+44	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4495+44	4497+72	228
PERM CTB (SGL SLOPE) (TY 4) (48)	4497+72	4497+82	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4497+82	4499+97	215
PERM CTB (SGL SLOPE) (TY 4) (48)	4499+97	4500+00	3

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

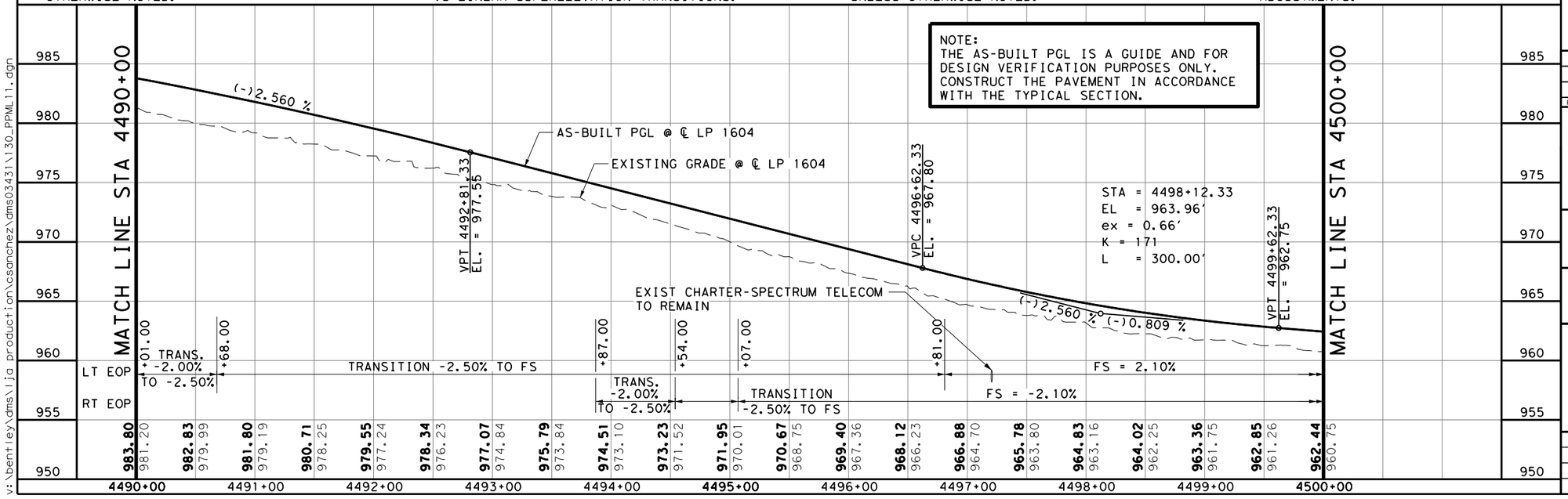
LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- CURVE ID LABEL (XXX-X)
- DRIVEWAY ID (XXXXX)
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	7642
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	8088
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4602
	0400	6005	CEM STABIL BKFL	CY	395
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	408
	0432	6001	RIPRAP (CONC) (4 IN)	CY	634
	0450	6023	RAIL (TY SSTR)	LF	346
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	2567
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	494
	0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	23
	0528	6001	COLORED TEXTURED CONC (4")	SY	296
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	8088
*	3076	6023	D-GR HMA TY-C PG70-22	SY	13136
*	3076	6066	TACK COAT	SY	34360
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	13136
*	3085	6001	UNDERSEAL COURSE	SY	26272

* FOR CONTRACTOR'S INFORMATION ONLY



DESIGN
STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL
STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

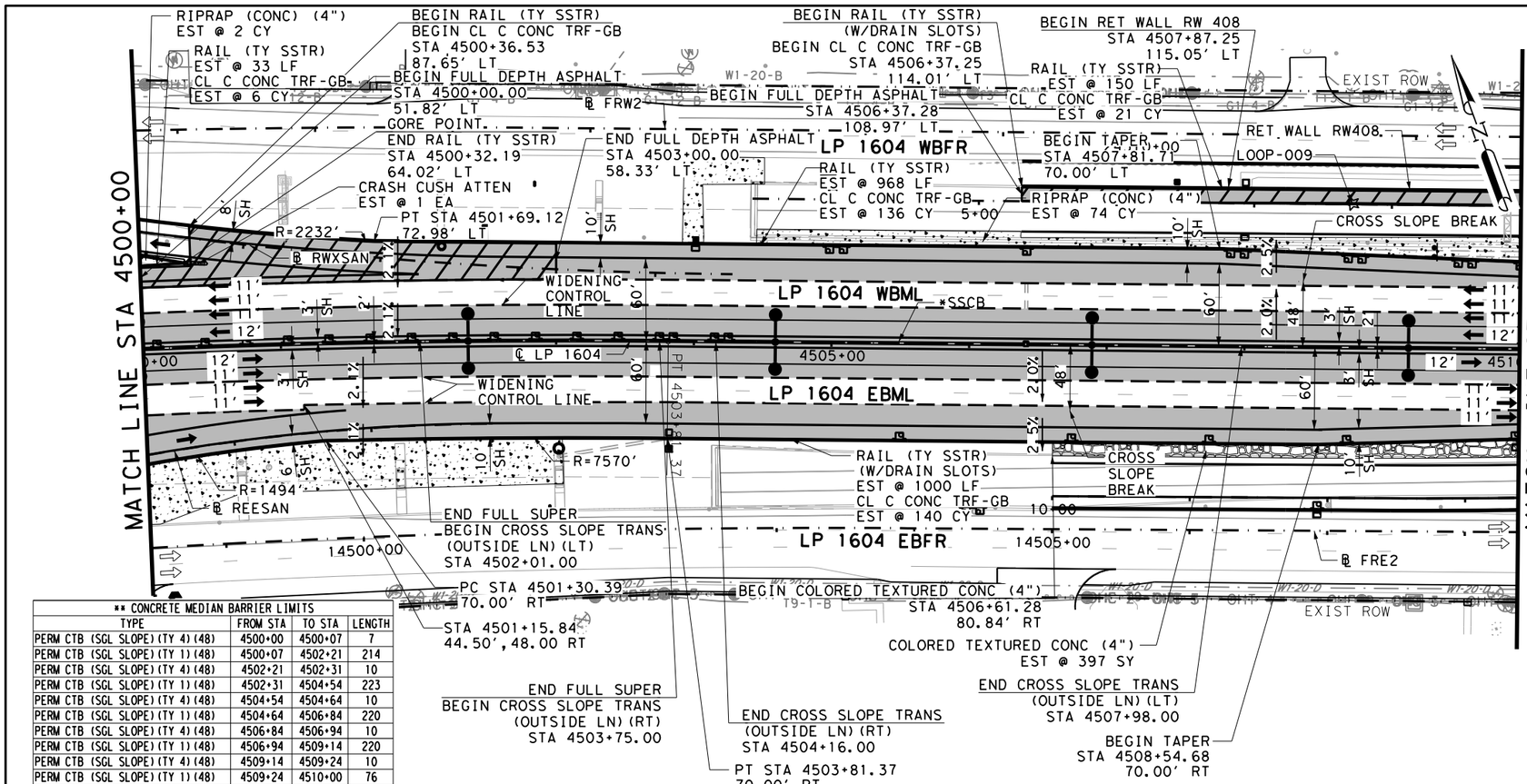
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800
LJA Engineering, Inc. FRN-F-1386

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4490+00 TO STA 4500+00

SHEET 11 OF 25

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	827

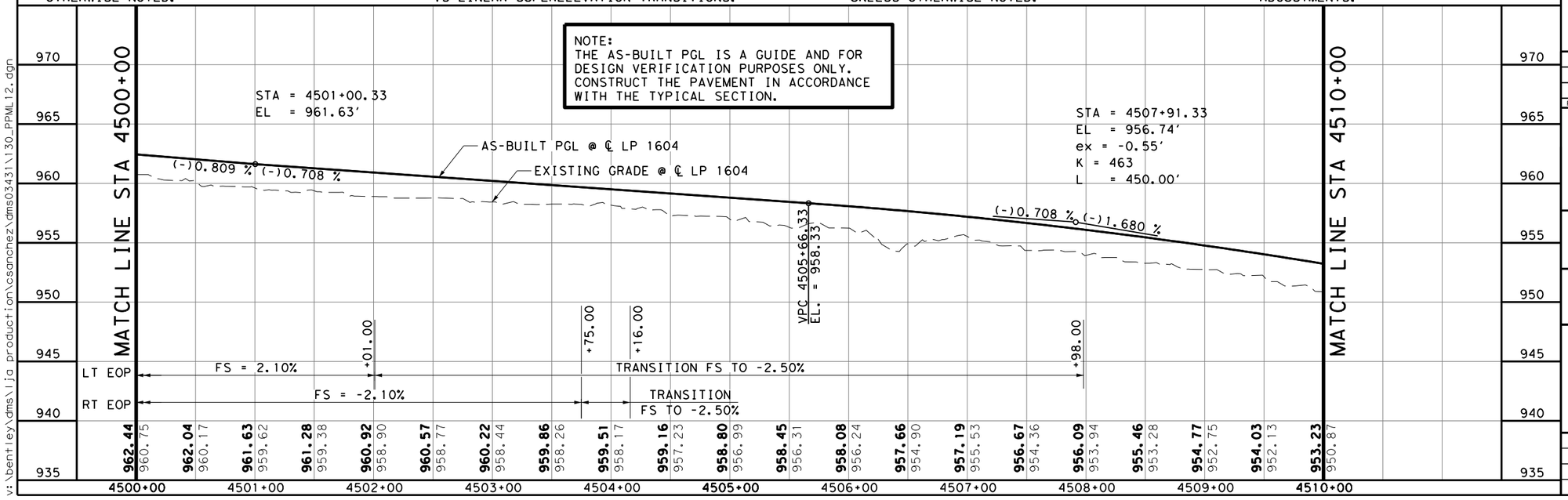
3:54:03 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML11.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 4) (48)	4500+00	4500+07	7
PERM CTB (SGL SLOPE) (TY 1) (48)	4500+07	4502+21	214
PERM CTB (SGL SLOPE) (TY 4) (48)	4502+21	4502+31	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4502+31	4504+54	223
PERM CTB (SGL SLOPE) (TY 4) (48)	4504+54	4504+64	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4504+64	4506+84	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4506+84	4506+94	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4506+94	4509+14	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4509+14	4509+24	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4509+24	4510+00	76

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	9667
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	11362
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4162
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	301
	0432	6001	RIPRAP (CONC) (4 IN)	CY	76
	0450	6023	RAIL (TY SSTR)	LF	1151
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	1000
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	953
	0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	47
	0528	6001	COLORED TEXTURED CONC (4")	SY	397
	0540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	50
	0540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	2
	0544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	2
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	11362
*	3076	6023	D-GR HMA TY-C PG70-22	SY	16008
*	3076	6066	TACK COAT	SY	43378
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	16008
*	3085	6001	UNDERSEAL COURSE	SY	32016

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

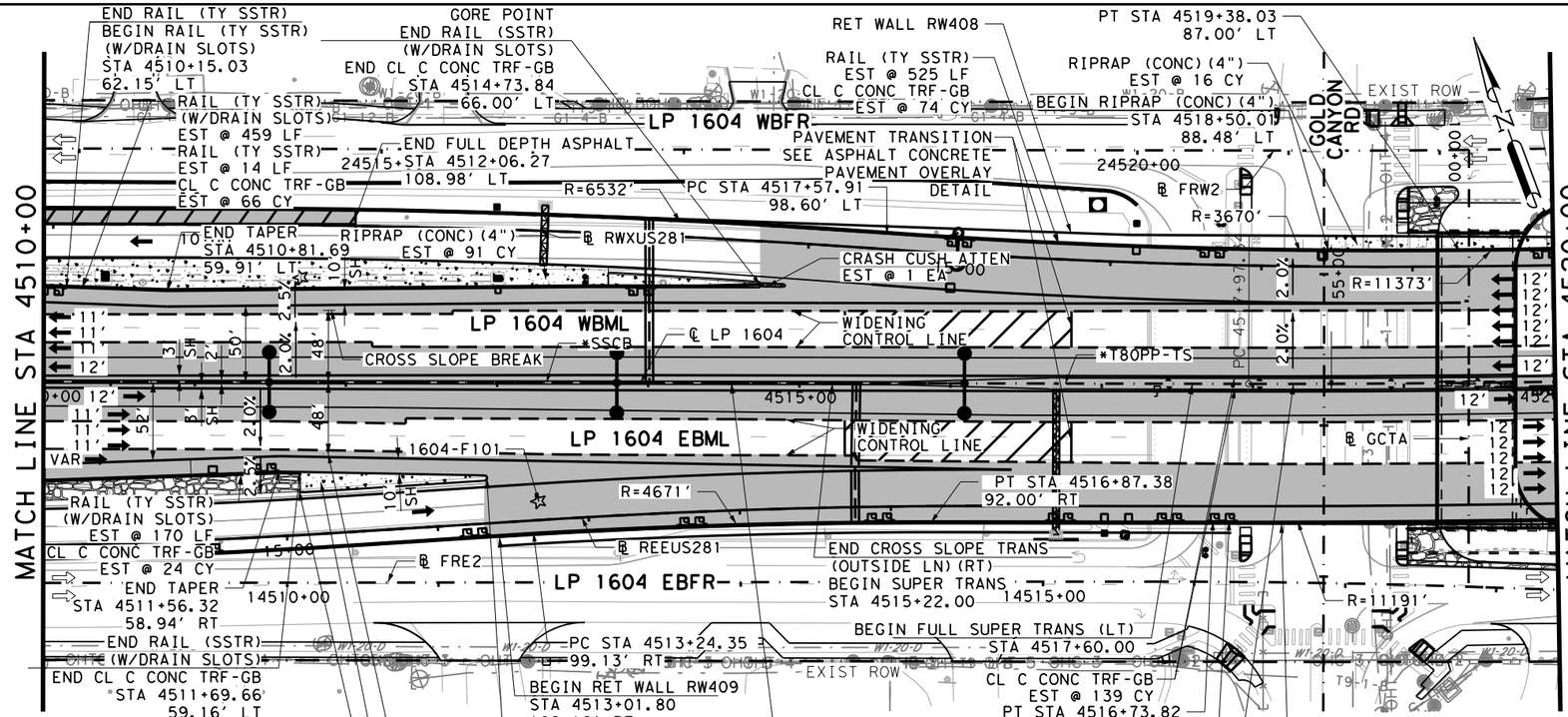
©2023 Texas Department of Transportation

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4500+00 TO STA 4510+00

SHEET 12 OF 25

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	828

3:54:44 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML12.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	11797
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	12435
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5186
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	402
	0432	6001	RIPRAP (CONC) (4 IN)	CY	121
	0450	6023	RAIL (TY SSTR)	LF	1250
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	629
	0450	6125	RAIL (TY T80PP-TS)	LF	434
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	545
	0514	6008	PERM CTB (SGL SLOPE) (TY 4) (48)	LF	20
	0528	6001	COLORED TEXTURED CONC (4")	SY	249
	0540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	25
	0540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
	0544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	1
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	12435
*	3076	6023	D-GR HMA TY-C PG70-22	SY	18089
	3076	6066	TACK COAT	SY	48613
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	18089
*	3085	6001	UNDERSEAL COURSE	SY	36178

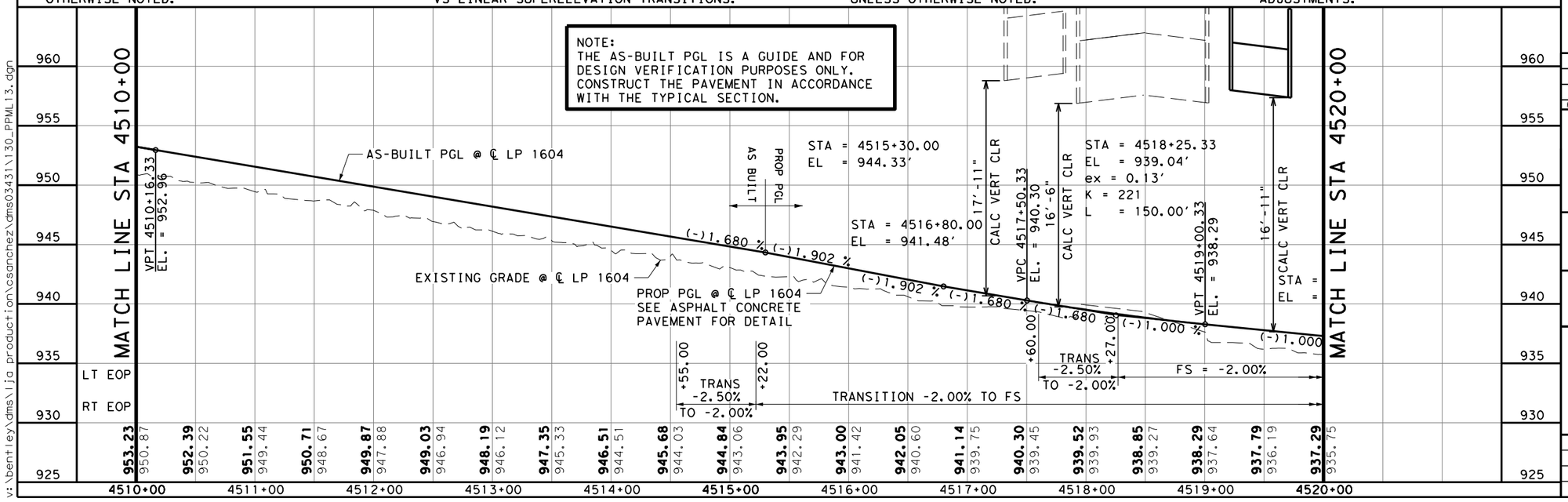
* FOR CONTRACTOR'S INFORMATION ONLY

** CONCRETE MEDIAN BARRIER LIMITS

TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4510+00	4511+44	144
PERM CTB (SGL SLOPE) (TY 4) (48)	4511+44	4511+54	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4511+54	4513+74	220
PERM CTB (SGL SLOPE) (TY 4) (48)	4513+74	4513+84	10
PERM CTB (SGL SLOPE) (TY 1) (48)	4513+84	4515+66	181
RAIL (TY T80PP-TS)	4515+66	4520+00	434

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

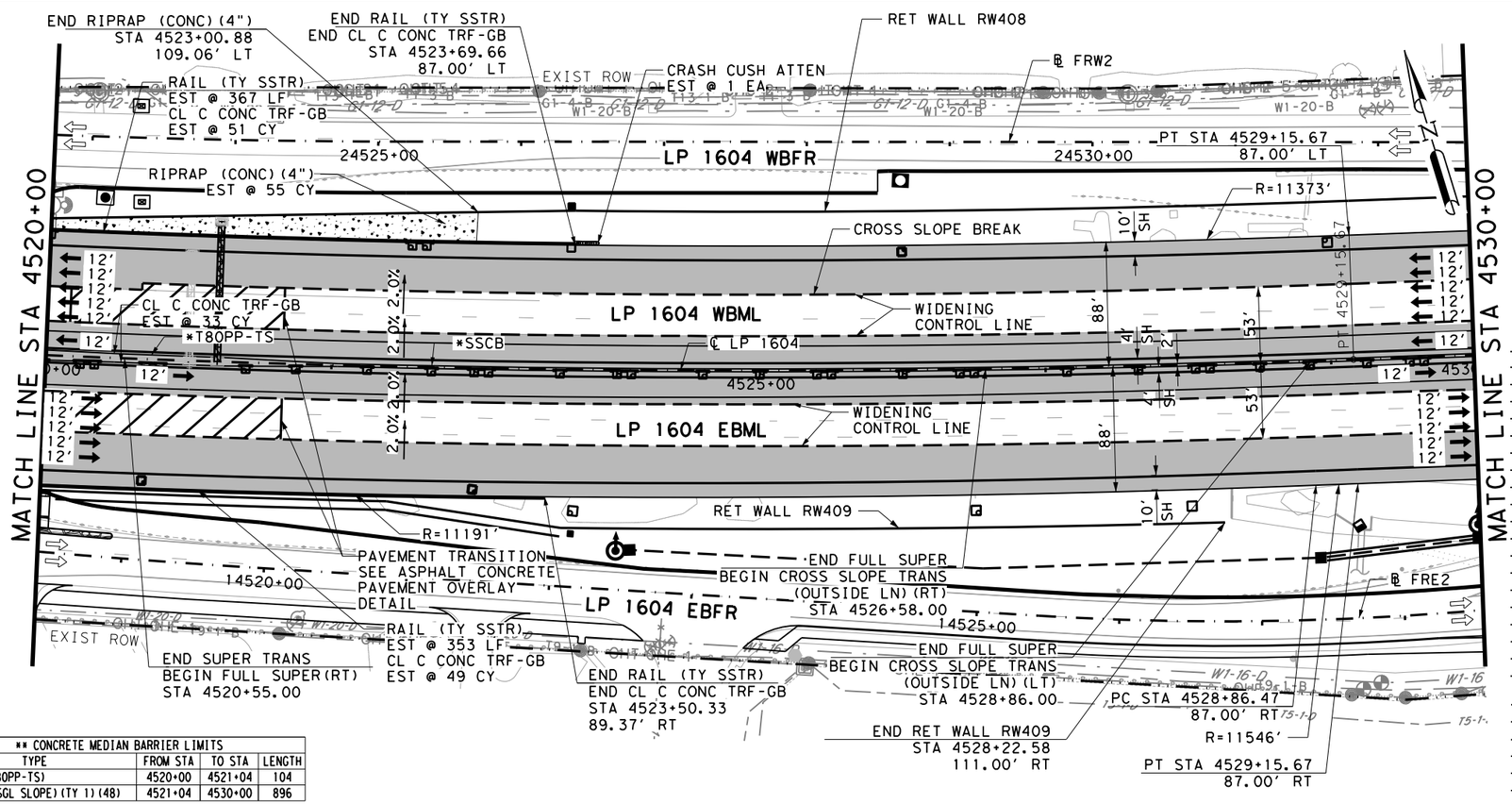
©2023 Texas Department of Transportation

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4510+00 TO STA 4520+00

SHEET 13 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	829

3:55:26 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML13.dgn



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
S1-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

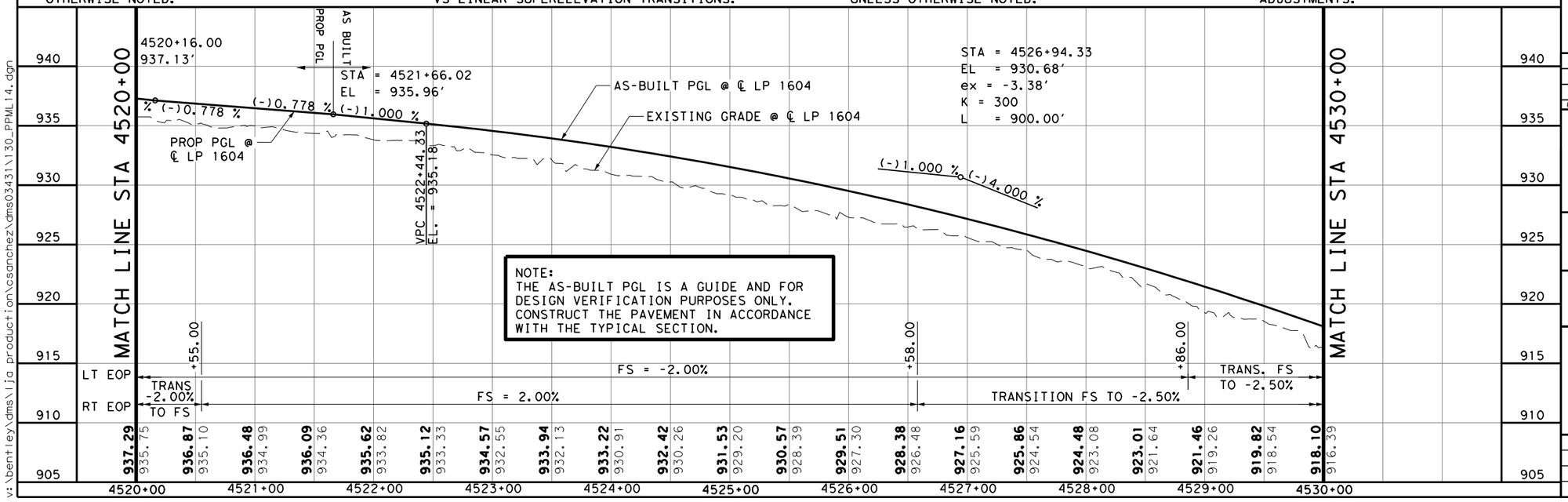
	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	12216
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	12661
	0354	6021	PLANE ASPH CONC PAV(0" TO 2")	SY	916
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5488
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	134
	0432	6001	RIPRAP (CONC)(4 IN)	CY	345
	0450	6023	RAIL (TY SSTR)	LF	720
	0450	6125	RAIL (TY T80PP-TS)	LF	104
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	896
	0540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
	0545	6007	CRASH CUSH ATTEN (INSTL)(L)(N)(TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	12661
*	3076	6023	D-GR HMA TY-C PG70-22	SY	19509
*	3076	6066	TACK COAT	SY	51679
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	19509
*	3085	6001	UNDERSEAL COURSE	SY	39018

* FOR CONTRACTOR'S INFORMATION ONLY

** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
RAIL (TY T80PP-TS)	4520+00	4521+04	104
PERM CTB (SGL SLOPE)(TY 1)(48)	4521+04	4530+00	896

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

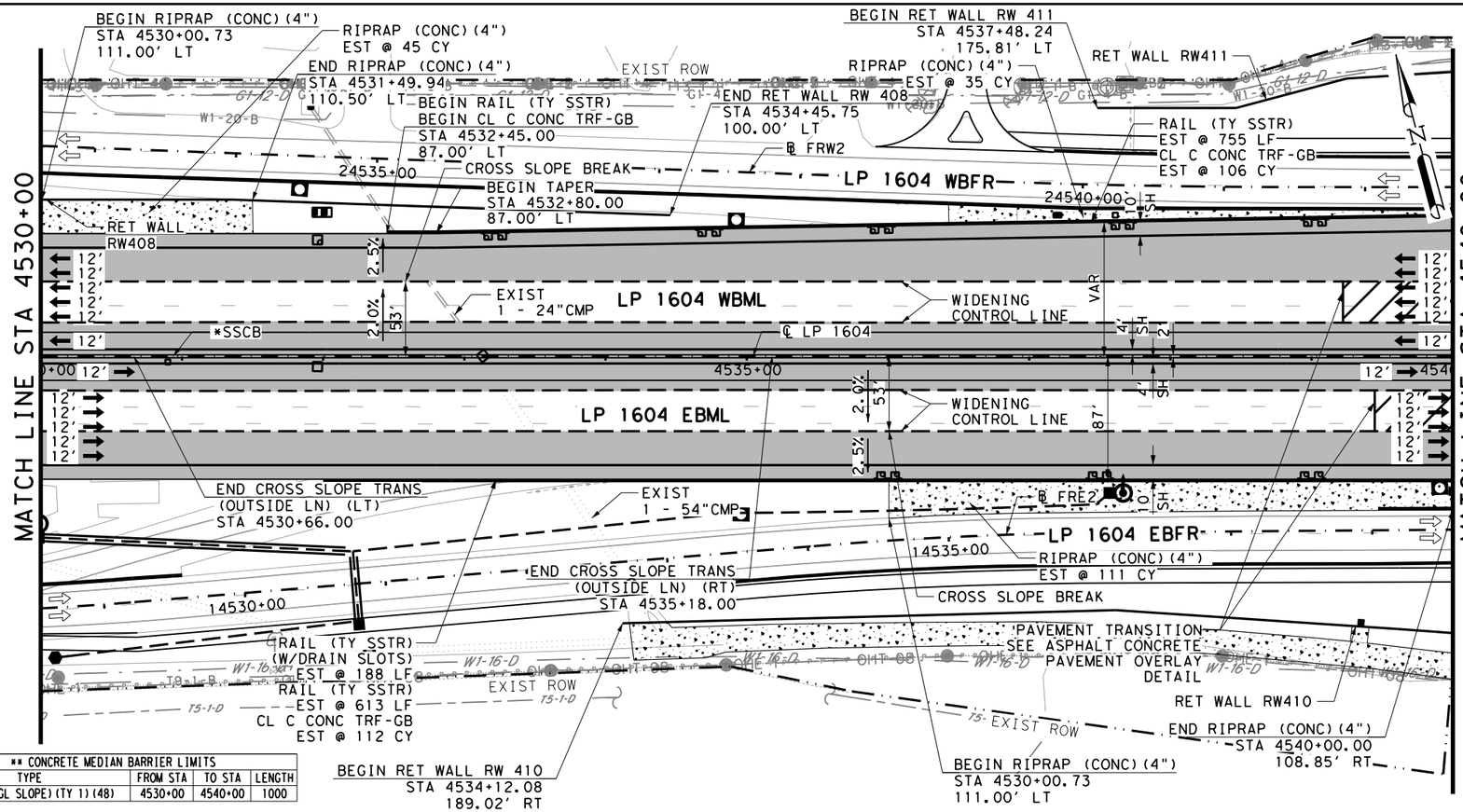
MAINLANE PLAN AND PROFILE

STA 4520+00 TO STA 4530+00

SHEET 14 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	830

3:56:09 PM 2/28/2023
v:\bentley\dms\lja_production\csanchez\dms03431\130_PPML14.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE)(TY 1)(48)	4530+00	4540+00	1000

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

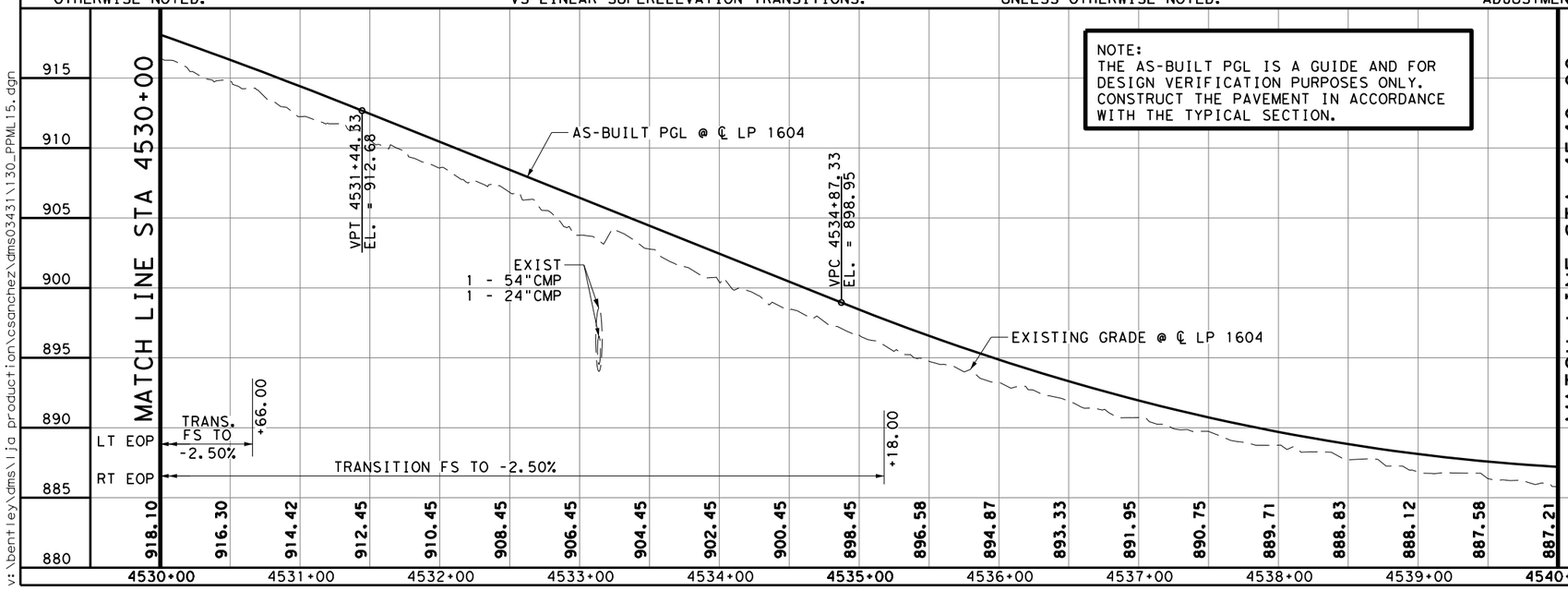
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	12496
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	12941
	0354	6021	PLANE ASPH CONC PAV(0" TO 2")	SY	429
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5997
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	218
	0432	6001	RIPRAP (CONC) (4 IN)	CY	191
	0450	6023	RAIL (TY SSTR)	LF	1368
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	188
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	1000
	0540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	50
	0540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
	0544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	2
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	12941
*	3076	6023	D-GR HMA TY-C PG70-22	SY	19811
*	3076	6066	TACK COAT	SY	52563
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	19811
*	3085	6001	UNDERSEAL COURSE	SY	39622

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

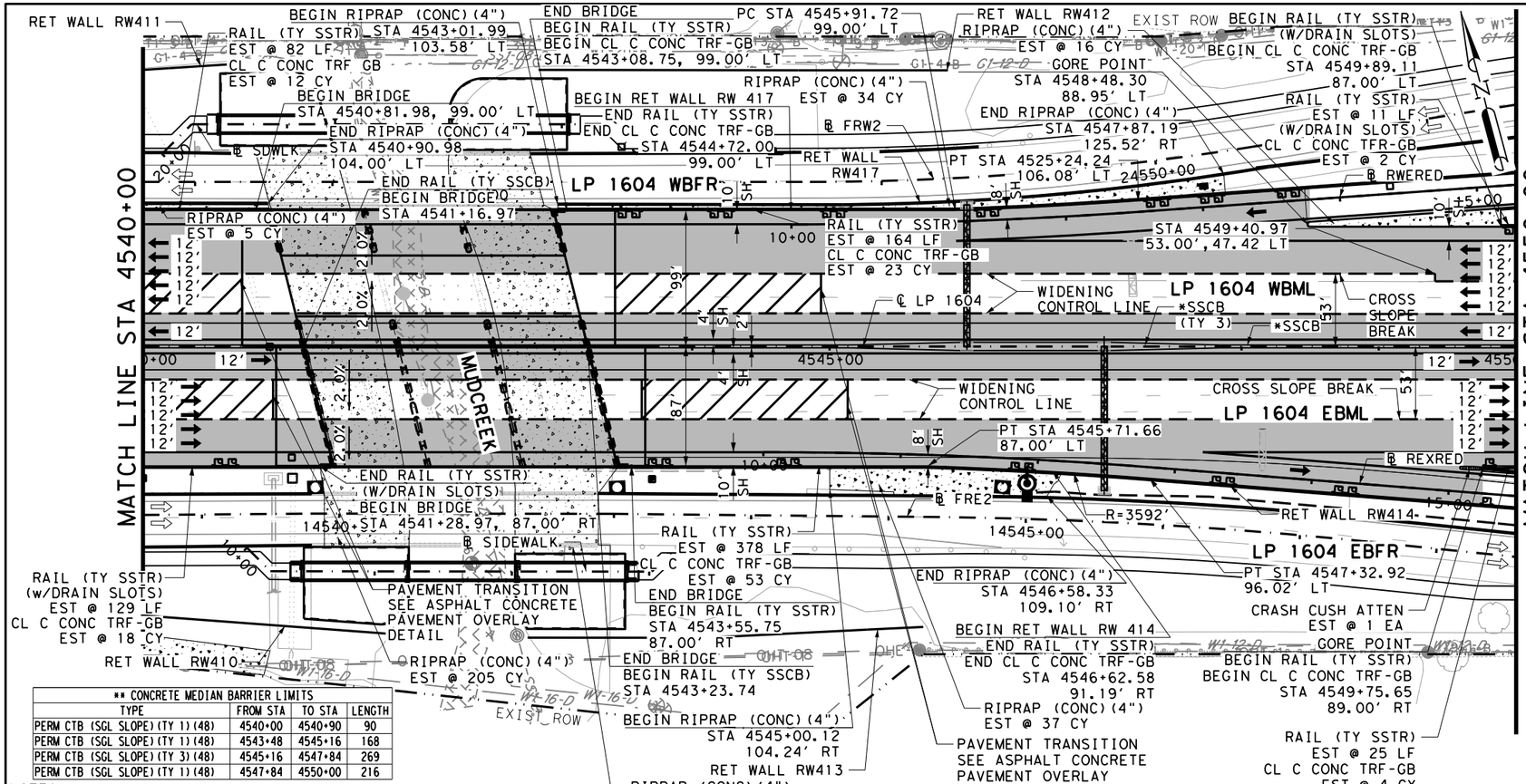
MAINLANE PLAN AND PROFILE

STA 4530+00 TO STA 4540+00

SHEET 15 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	831

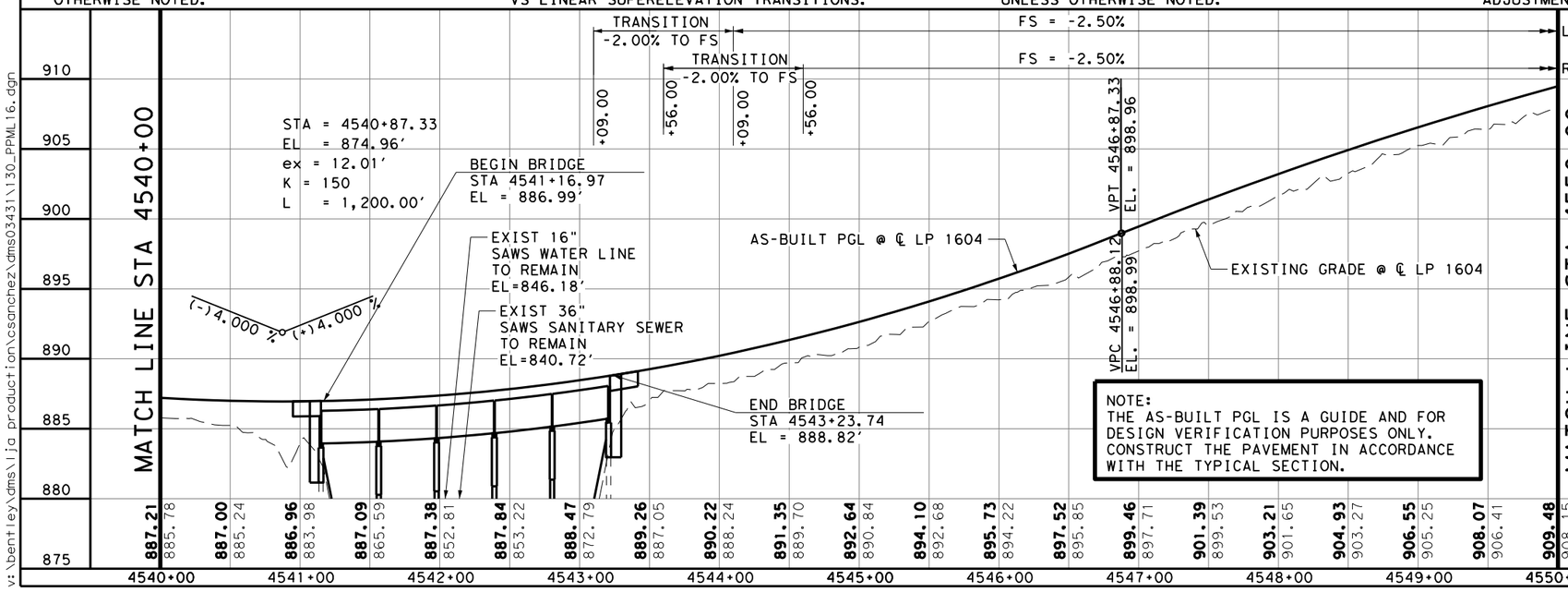
3:56:54 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML15.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4540+00	4540+90	90
PERM CTB (SGL SLOPE) (TY 1) (48)	4543+48	4545+16	168
PERM CTB (SGL SLOPE) (TY 3) (48)	4545+16	4547+84	269
PERM CTB (SGL SLOPE) (TY 1) (48)	4547+84	4550+00	216

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
THE AS-BUILT PGL IS A GUIDE AND FOR DESIGN VERIFICATION PURPOSES ONLY. CONSTRUCT THE PAVEMENT IN ACCORDANCE WITH THE TYPICAL SECTION.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	13960
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	14405
0354	6021	PLANE ASPH CONC PAV(0" TO 2")	SY	1499
0354	6045	PLANE ASPH CONC PAV (2")	SY	3572
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	110
0432	6001	RIPRAP (CONC) (4 IN)	CY	534
0450	6023	RAIL (TY SSTR)	LF	649
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	140
0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	474
0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	269
3076	6001	D-GR HMA TY-B PG 64-22	SY	14405
3076	6023	D-GR HMA TY-C PG70-22	SY	19921
3076	6066	TACK COAT	SY	54248
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	19921
3085	6001	UNDERSEAL COURSE	SY	39842

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

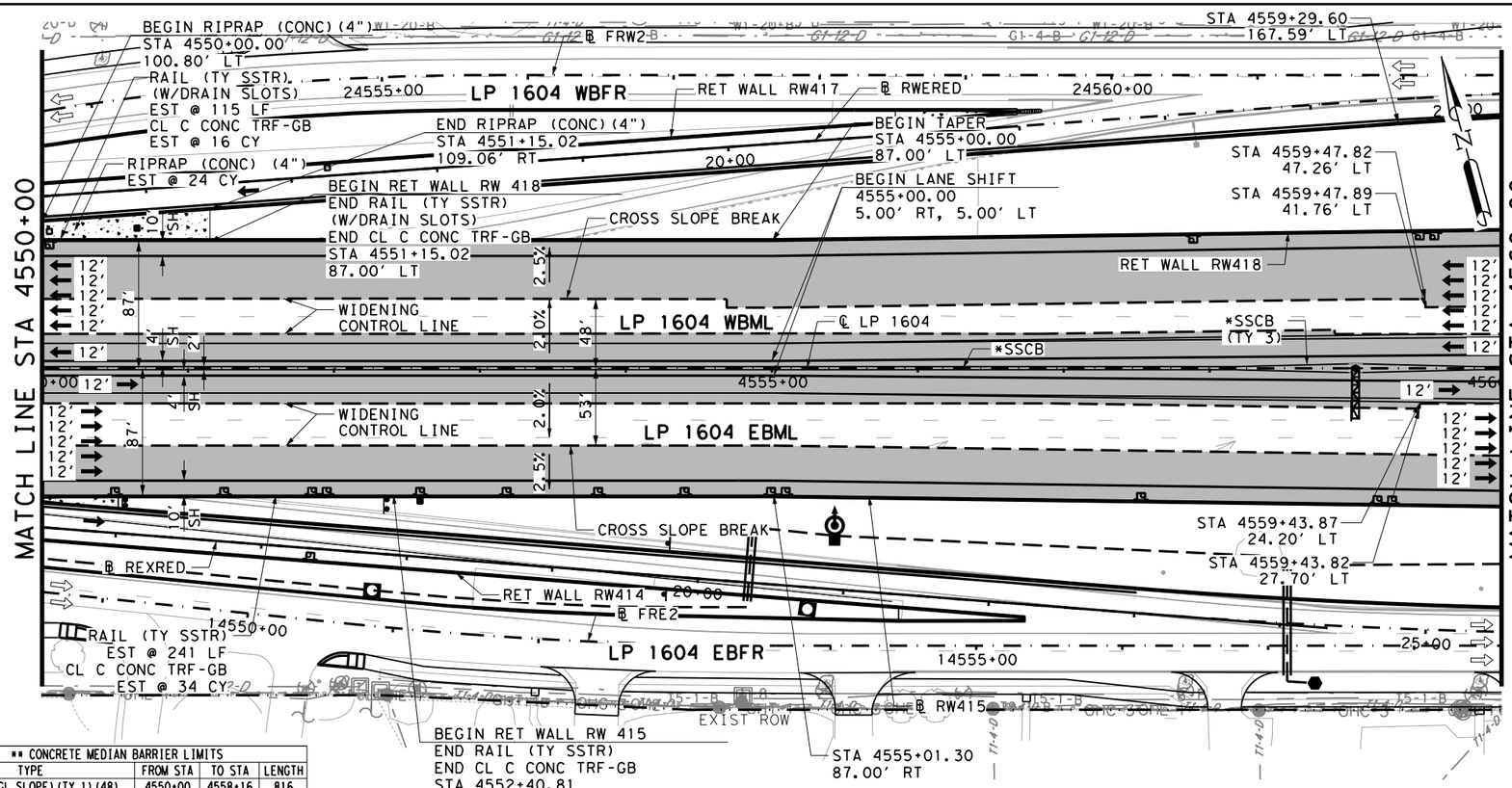
©2023 Texas Department of Transportation

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4540+00 TO STA 4550+00

SHEET 16 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	832

3:57:35 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML16.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4550+00	4558+16	816
PERM CTB (SGL SLOPE) (TY 3) (48)	4558+16	4559+83	167
PERM CTB (SGL SLOPE) (TY 1) (48)	4559+83	4560+00	17

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

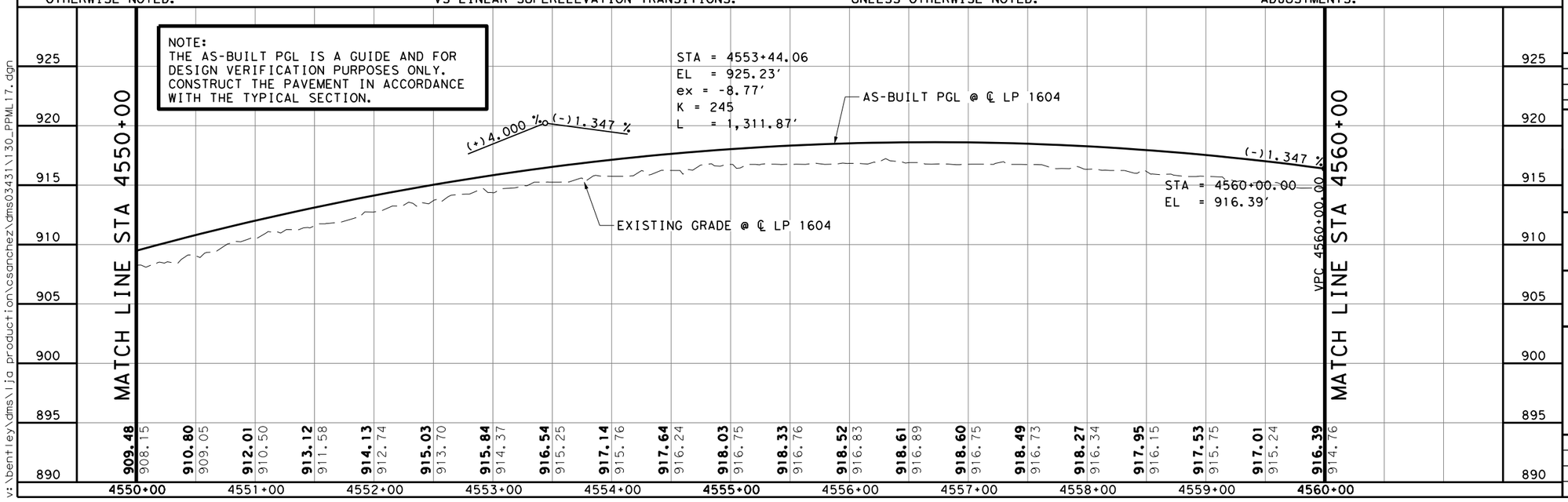
LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	13048
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	13493
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5783
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	50
	0450	6023	RAIL (TY SSTR)	LF	241
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	115
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	833
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	167
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	13493
*	3076	6023	D-GR HMA TY-C PG70-22	SY	19721
*	3076	6066	TACK COAT	SY	52935
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	19721
*	3085	6001	UNDERSEAL COURSE	SY	39442

* FOR CONTRACTOR'S INFORMATION ONLY



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

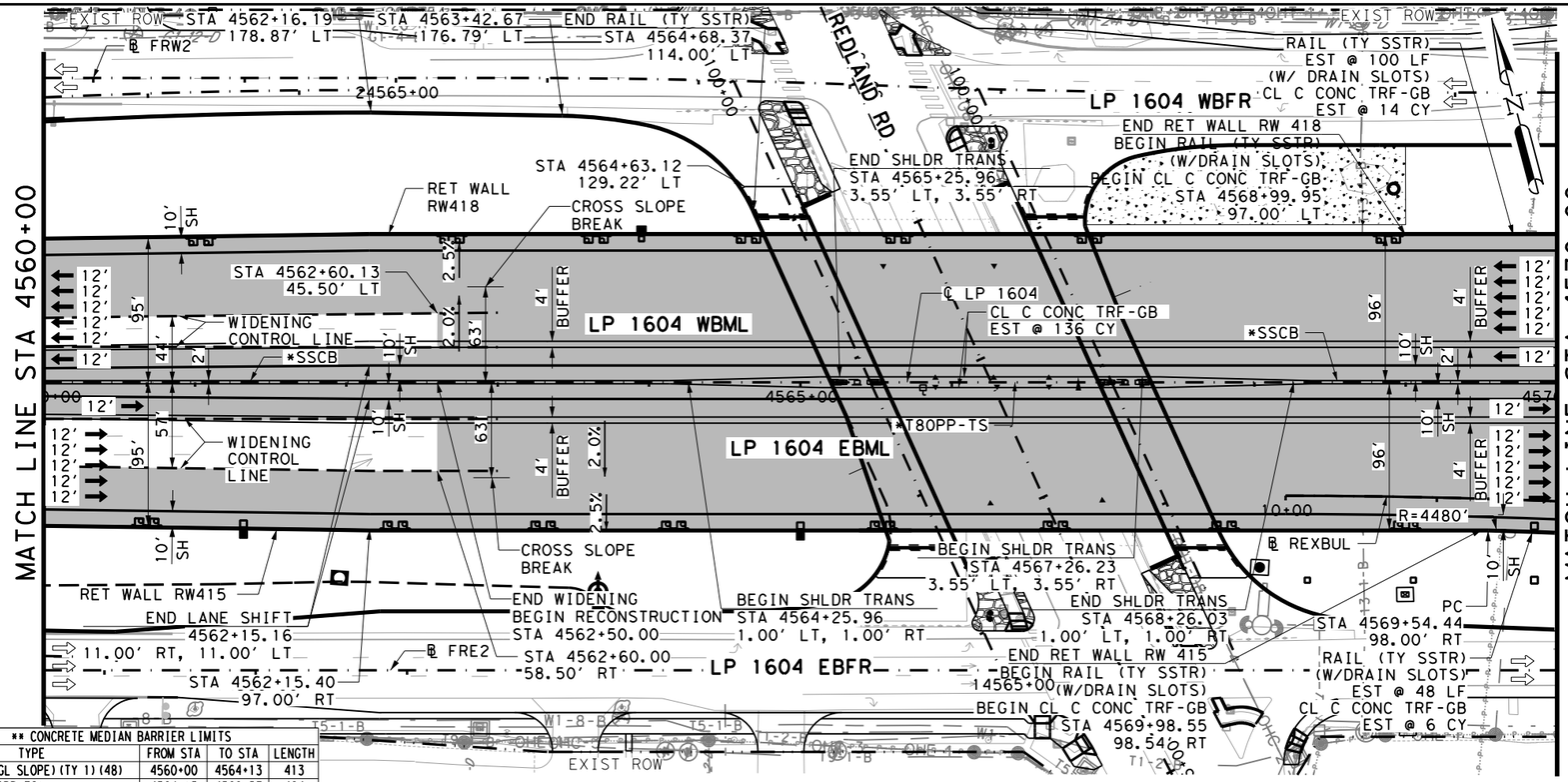
MAINLANE PLAN AND PROFILE

STA 4550+00 TO STA 4560+00

SHEET 17 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	833

3:58:17 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML17.dgn



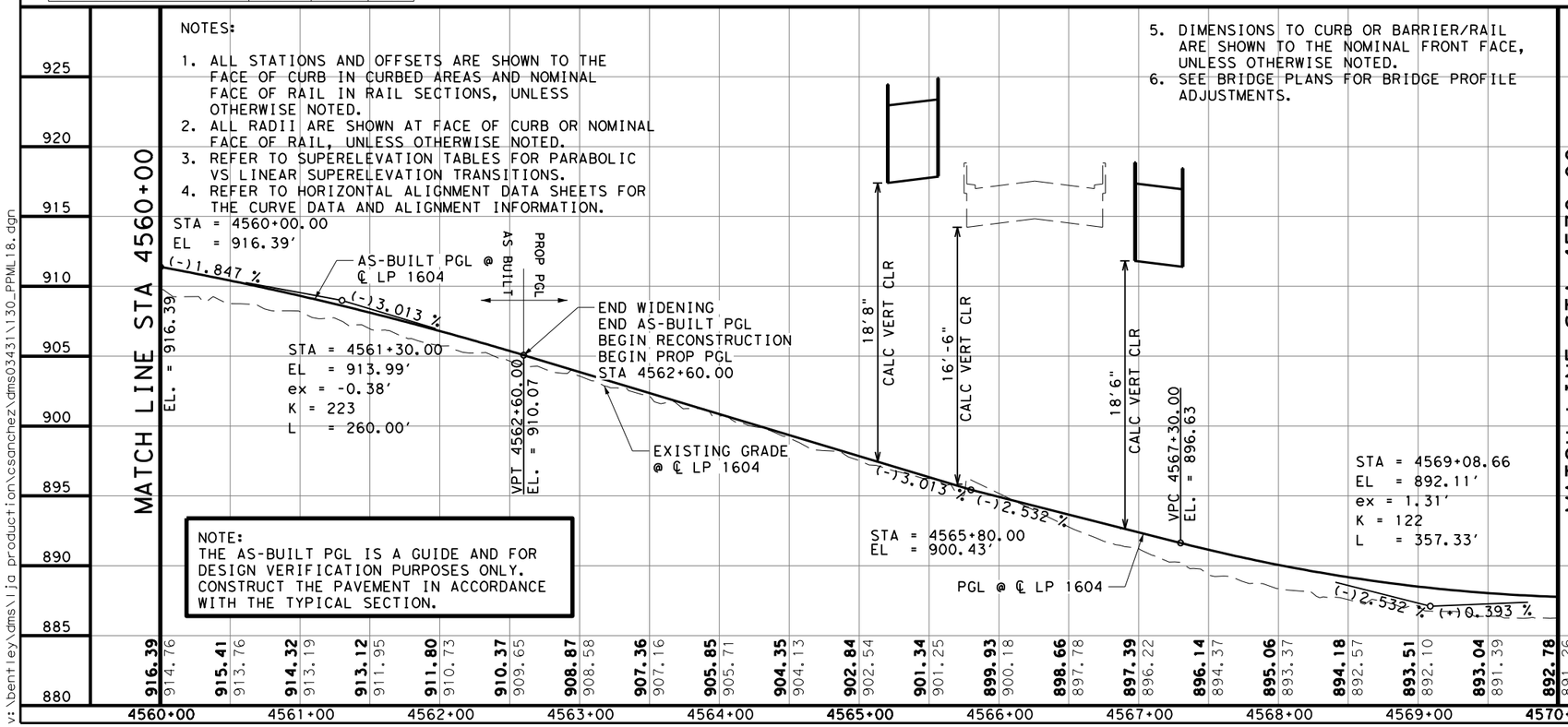
** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4560+00	4564+13	413
RAIL (TY T80PP-TS)	4564+13	4568+37	424
PERM CTB (SGL SLOPE) (TY 1) (48)	4568+37	4570+00	163

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	19696
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	19812
0354	6045	PLANE ASPH CONC PAV (2")	SY	1560
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	156
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	148
0450	6125	RAIL (TY T80PP-TS)	LF	424
0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	576
3076	6001	D-GR HMA TY-B PG 64-22	SY	19812
3076	6023	D-GR HMA TY-C PG70-22	SY	21488
3076	6066	TACK COAT	SY	62788
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	21488
3085	6001	UNDERSEAL COURSE	SY	42976



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

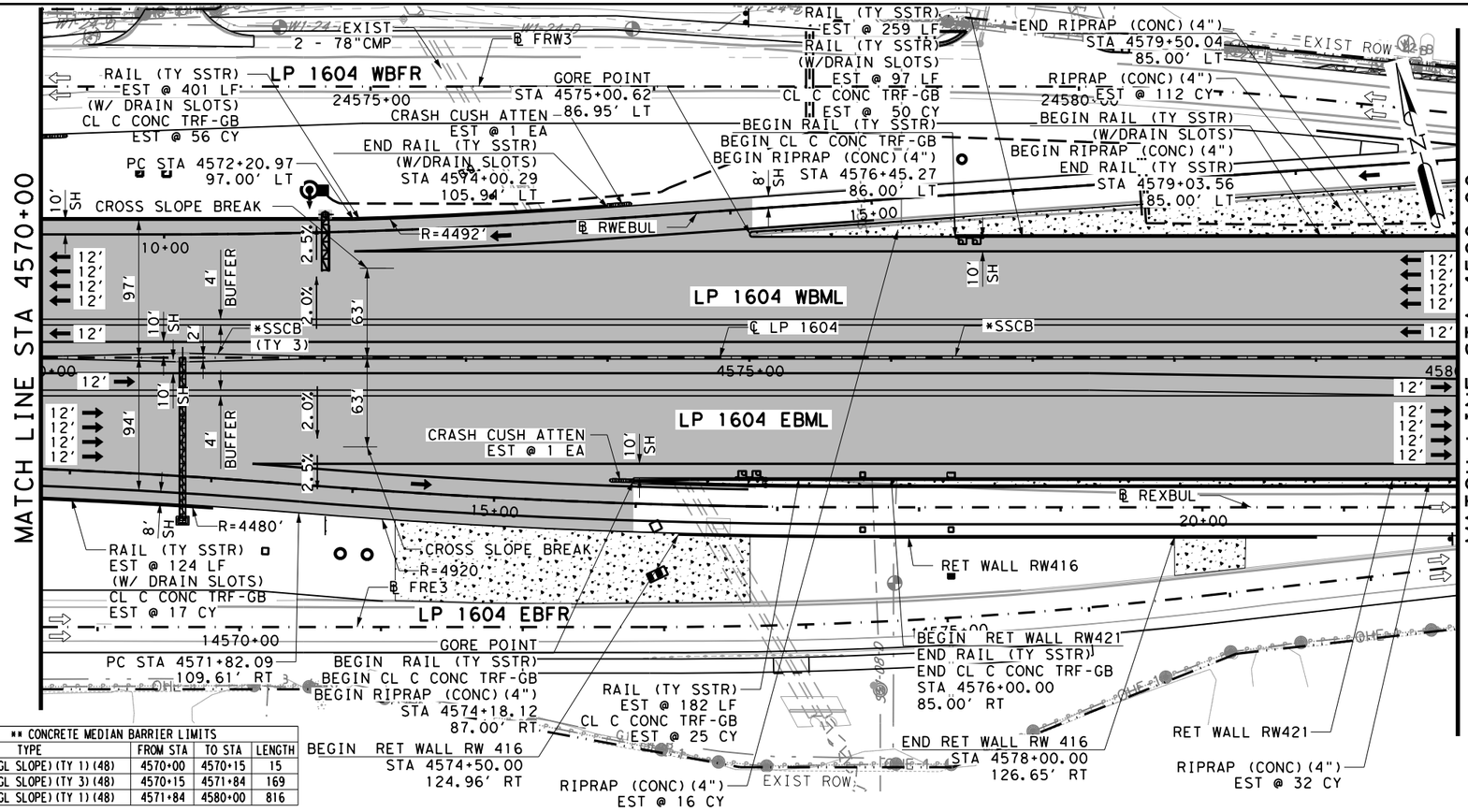
©2023 Texas Department of Transportation

LP 1604
MAINLANE
PLAN AND PROFILE
STA 4560+00 TO STA 4570+00

SHEET 18 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	834

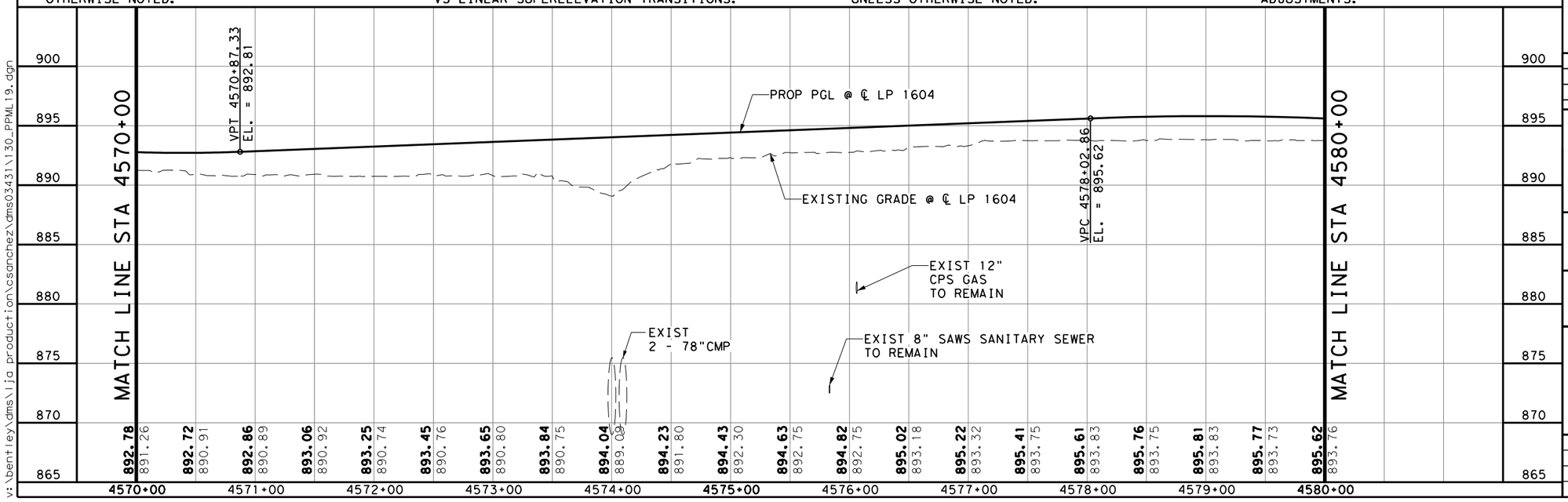
3:59:04 PM 2/28/2023
v:\bentley\dms\lja_production\csanchez\dms03431\130_PPML18.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4570+00	4570+15	15
PERM CTB (SGL SLOPE) (TY 3) (48)	4570+15	4571+84	169
PERM CTB (SGL SLOPE) (TY 1) (48)	4571+84	4580+00	816

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	20997
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	20997
	0354	6045	PLANE ASPH CONC PAV (2")	SY	20997
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	149
	0432	6001	RIPRAP (CONC) (4 IN)	CY	160
	0450	6023	RAIL (TY SSTR)	LF	441
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	622
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	831
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	169
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	20997
*	3076	6023	D-GR HMA TY-C PG70-22	SY	20997
*	3076	6066	TACK COAT	SY	62990
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	20997
*	3085	6001	UNDERSEAL COURSE	SY	41994

* FOR CONTRACTOR'S INFORMATION ONLY

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

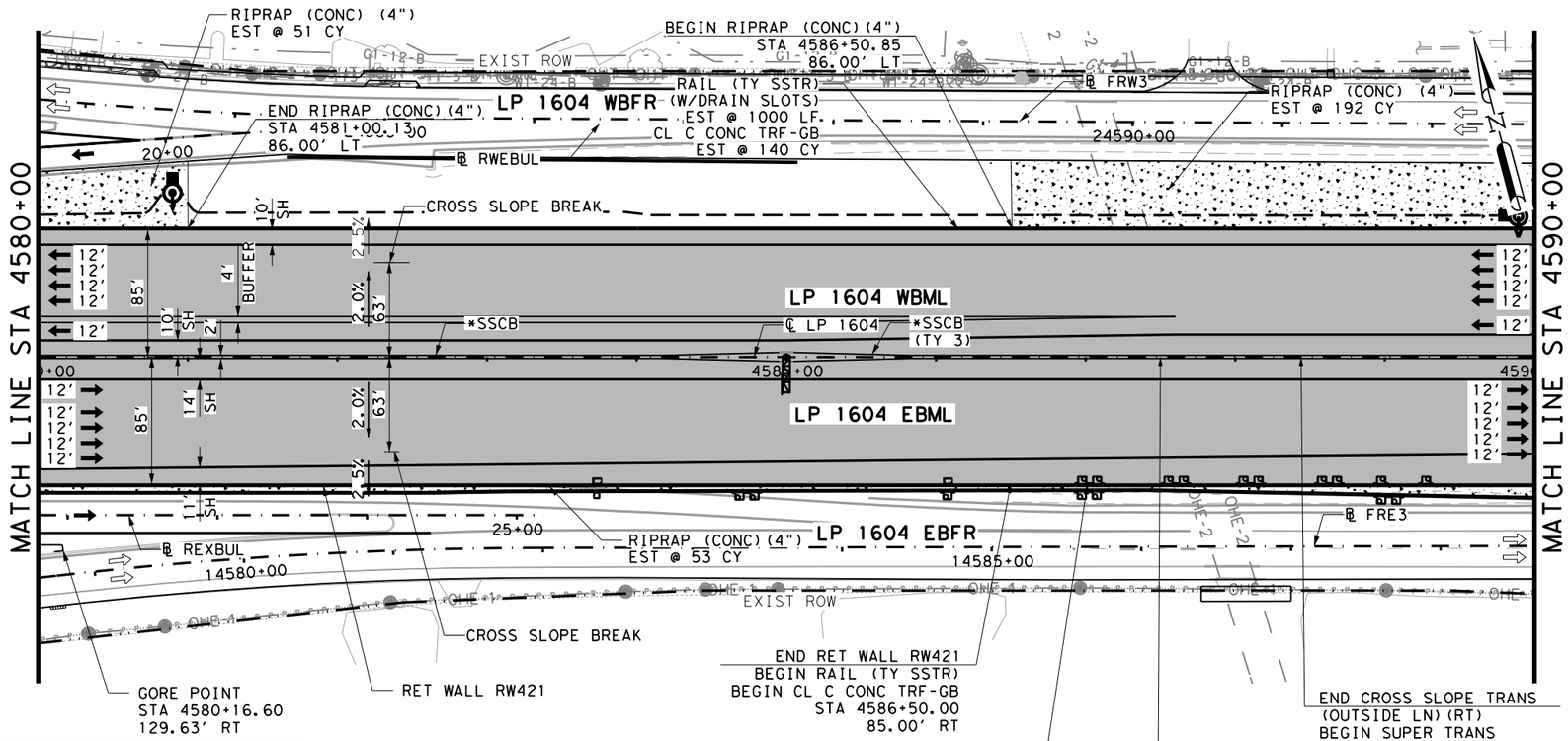
MAINLANE PLAN AND PROFILE

STA 4570+00 TO STA 4580+00

SHEET 19 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	835

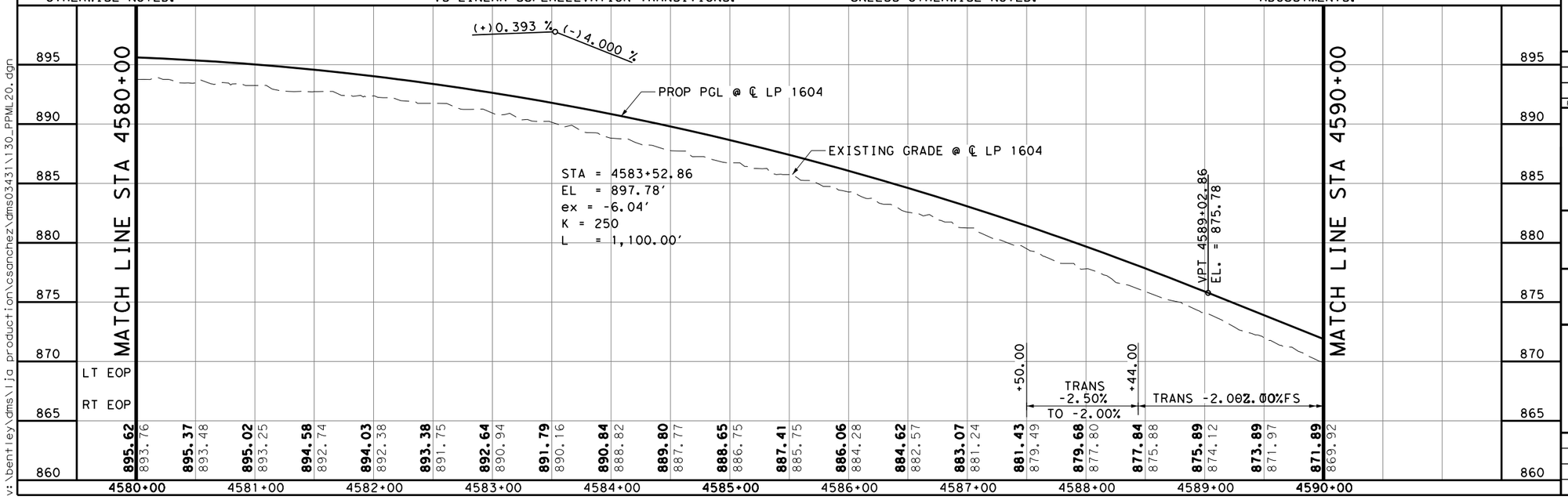
3:59:48 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML19.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4580+00	4584+16	416
PERM CTB (SGL SLOPE) (TY 3) (48)	4584+16	4585+83	167
PERM CTB (SGL SLOPE) (TY 1) (48)	4585+83	4590+00	417

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	18889
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	18889
	0354	6045	PLANE ASPH CONC PAV (2")	SY	18889
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	189
	0432	6001	RIPRAP (CONC) (4 IN)	CY	296
	0450	6023	RAIL (TY SSTR)	LF	350
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	1000
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	833
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	167
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	18889
*	3076	6023	D-GR HMA TY-C PG70-22	SY	18889
*	3076	6066	TACK COAT	SY	56667
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	18889
*	3085	6001	UNDERSEAL COURSE	SY	37778

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

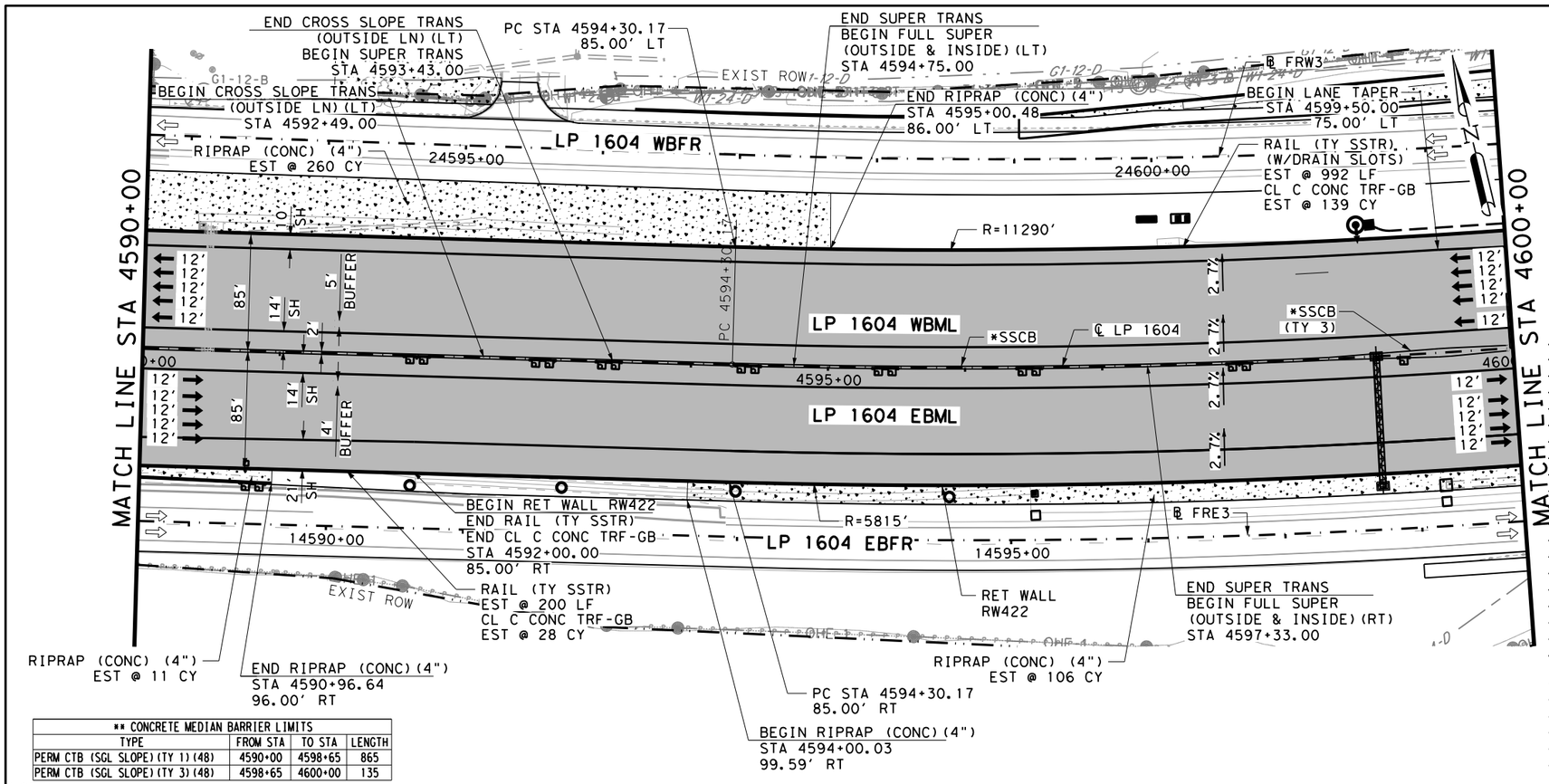
MAINLANE PLAN AND PROFILE

STA 4580+00 TO STA 4590+00

SHEET 20 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	836

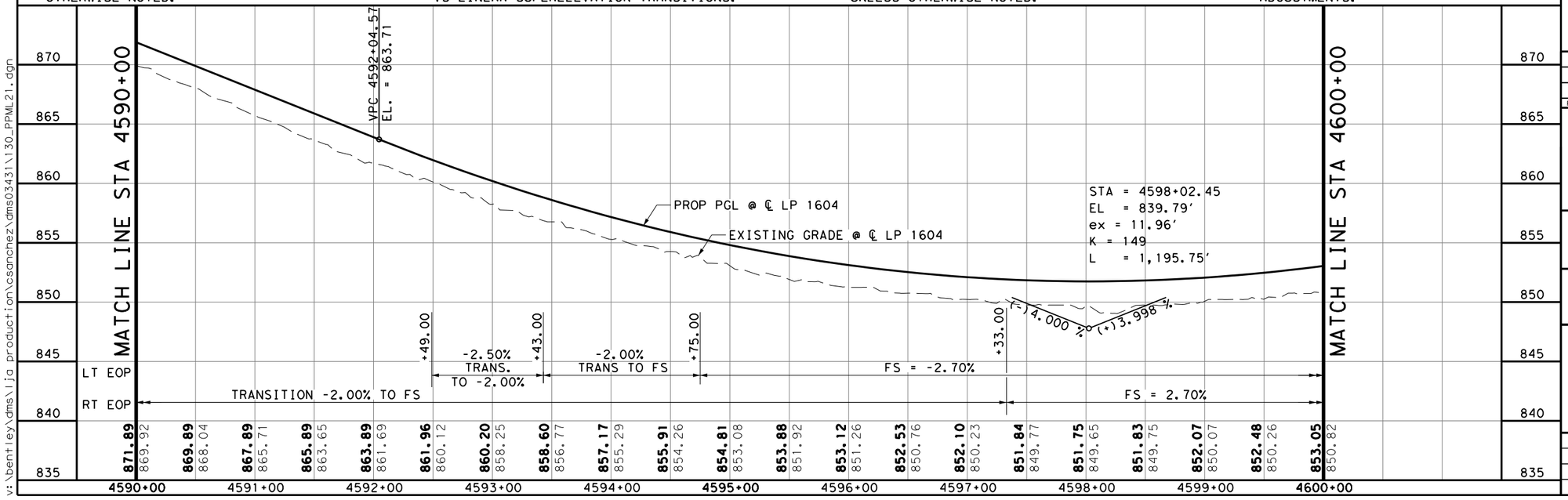
4:00:34 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML20.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4590+00	4598+65	865
PERM CTB (SGL SLOPE) (TY 3) (48)	4598+65	4600+00	135

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	1889
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	18889
	0354	6045	PLANE ASPH CONC PAV (2")	SY	18889
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	167
	0432	6001	RIPRAP (CONC) (4 IN)	CY	377
	0450	6023	RAIL (TY SSTR)	LF	200
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	992
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	865
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	135
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1889
*	3076	6023	D-GR HMA TY-C PG70-22	SY	1889
*	3076	6066	TACK COAT	SY	5667
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	1889
*	3085	6001	UNDERSEAL COURSE	SY	3778

* FOR CONTRACTOR'S INFORMATION ONLY

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

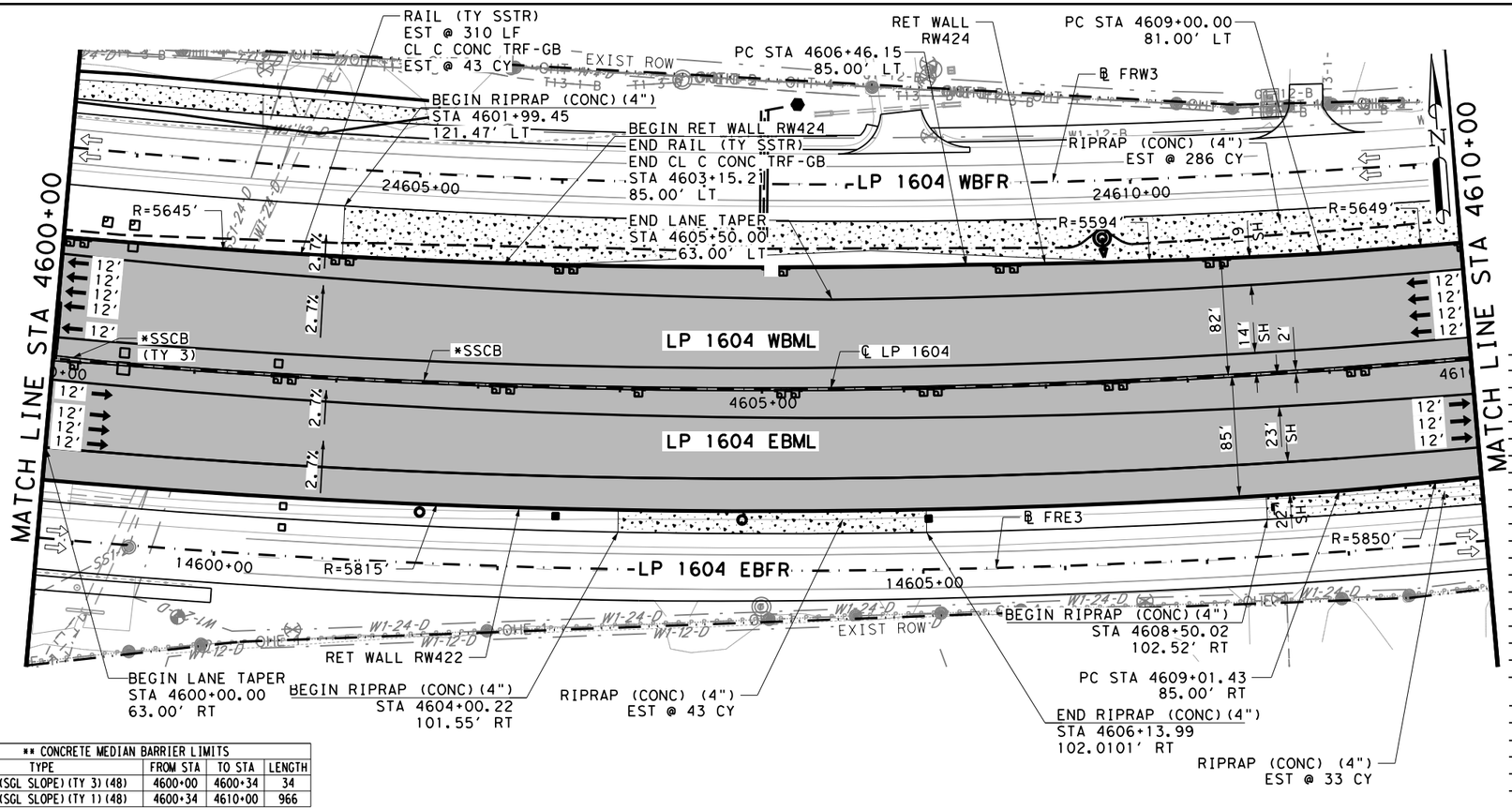
MAINLANE PLAN AND PROFILE

STA 4590+00 TO STA 4600+00

SHEET 21 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	837

4:01:23 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML21.dgn



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
SI-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

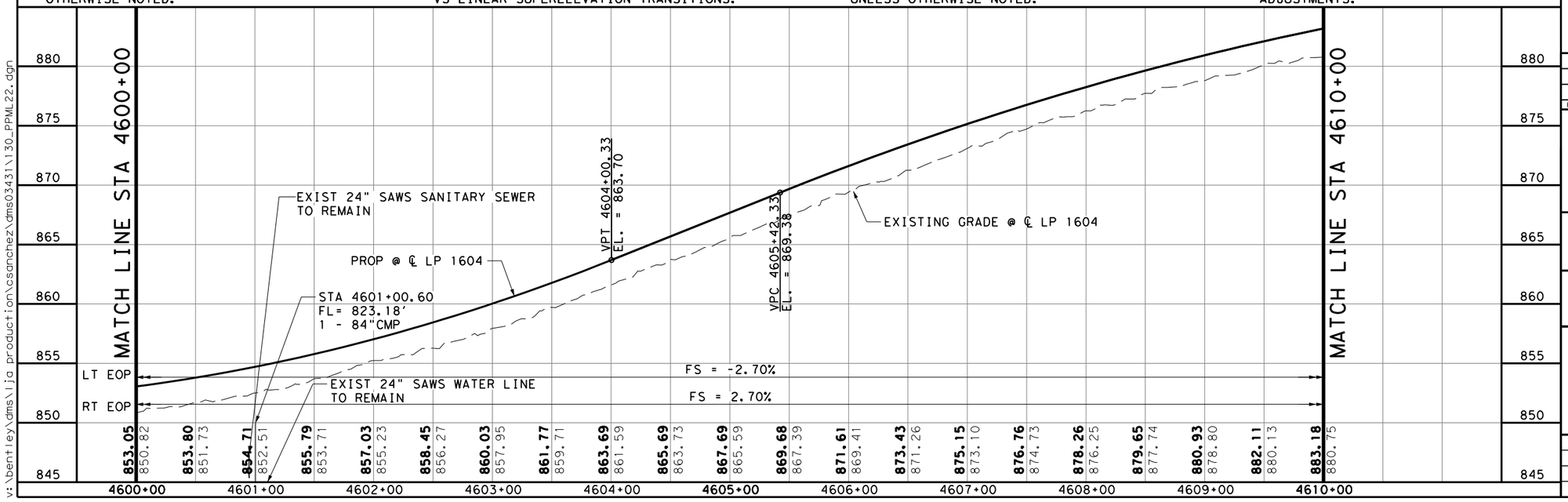
	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	18780
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	18780
	0354	6045	PLANE ASPH CONC PAV (2")	SY	18780
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	43
	0432	6001	RIPRAP (CONC) (4 IN)	CY	362
	0450	6023	RAIL (TY SSTR)	LF	310
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	966
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	34
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	18780
*	3076	6023	D-GR HMA TY-C PG70-22	SY	18780
*	3076	6066	TACK COAT	SY	56340
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	18780
*	3085	6001	UNDERSEAL COURSE	SY	37560

* FOR CONTRACTOR'S INFORMATION ONLY

** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 3) (48)	4600+00	4600+34	34
PERM CTB (SGL SLOPE) (TY 1) (48)	4600+34	4610+00	966

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

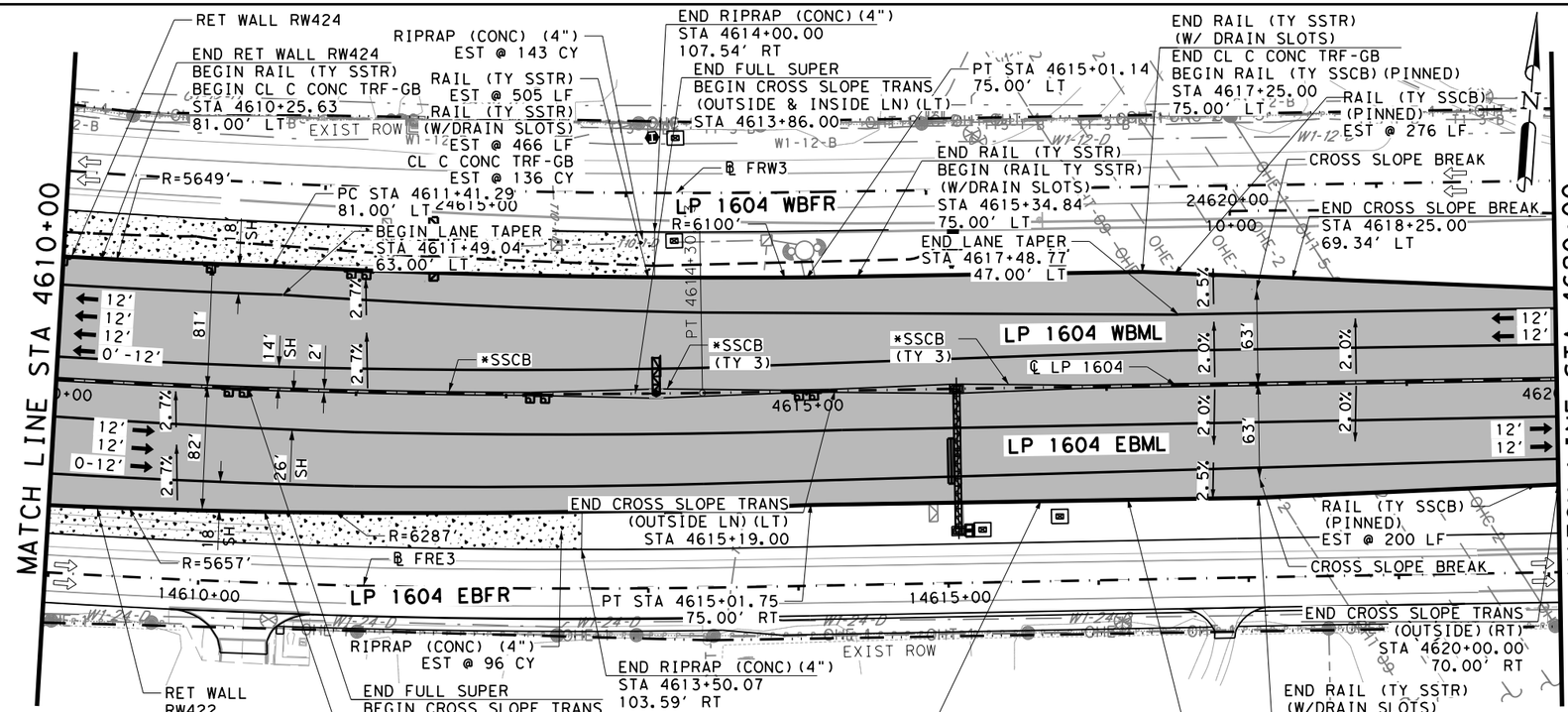
MAINLANE PLAN AND PROFILE

STA 4600+00 TO STA 4610+00

SHEET 22 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	838

2/28/2023
4:02:04 PM
v:\bentley\dms\lja production\sanchez\dms03431\130_PPML22.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	16813
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	16813
	0354	6045	PLANE ASPH CONC PAV (2")	SY	16813
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	188
	0432	6001	RIPRAP (CONC) (4 IN)	CY	239
	0450	6023	RAIL (TY SSTR)	LF	650
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	695
	0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	1140
	0514	6007	PERM CTB (SGL SLOPE) (TY 3) (48)	LF	336
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	16813
*	3076	6023	D-GR HMA TY-C PG70-22	SY	16813
*	3076	6066	TACK COAT	SY	50438
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	16813
*	3085	6001	UNDERSEAL COURSE	SY	33626

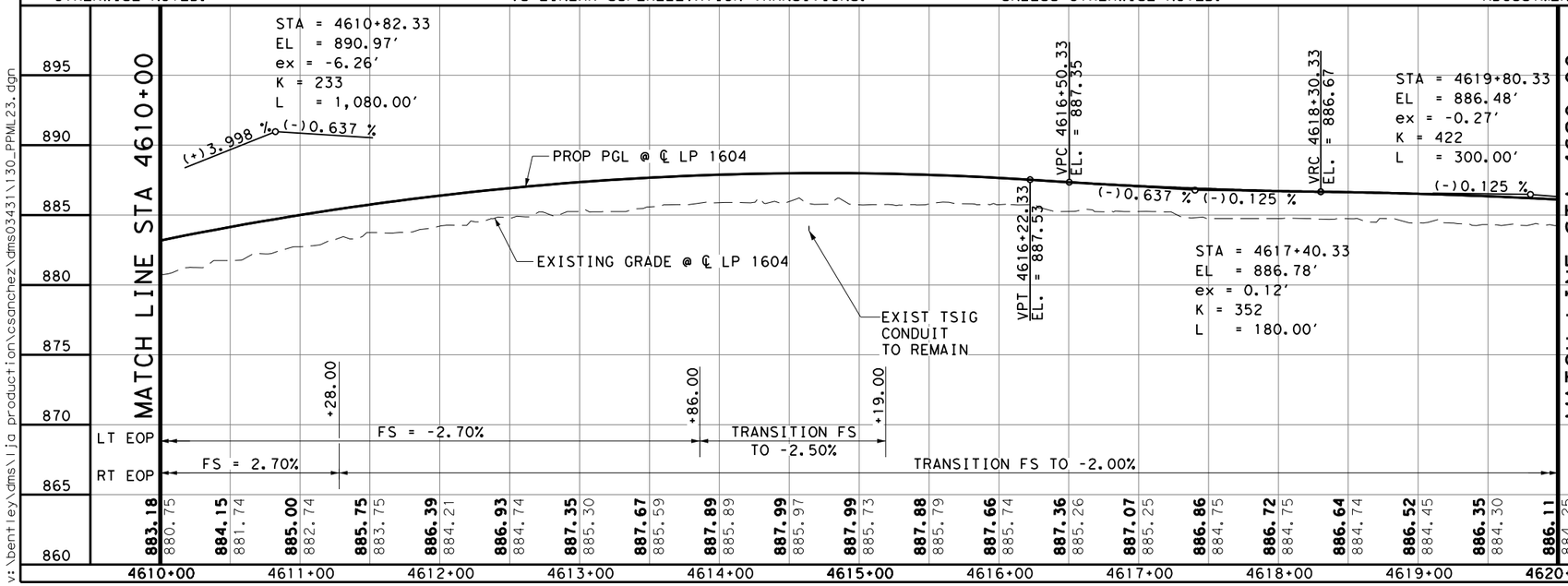
* FOR CONTRACTOR'S INFORMATION ONLY

** CONCRETE MEDIAN BARRIER LIMITS

TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4610+00	4613+16	316
PERM CTB (SGL SLOPE) (TY 3) (48)	4613+16	4614+83	167
PERM CTB (SGL SLOPE) (TY 1) (48)	4614+83	4615+15	32
PERM CTB (SGL SLOPE) (TY 3) (48)	4615+15	4616+84	169
PERM CTB (SGL SLOPE) (TY 1) (48)	4616+84	4620+00	316

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

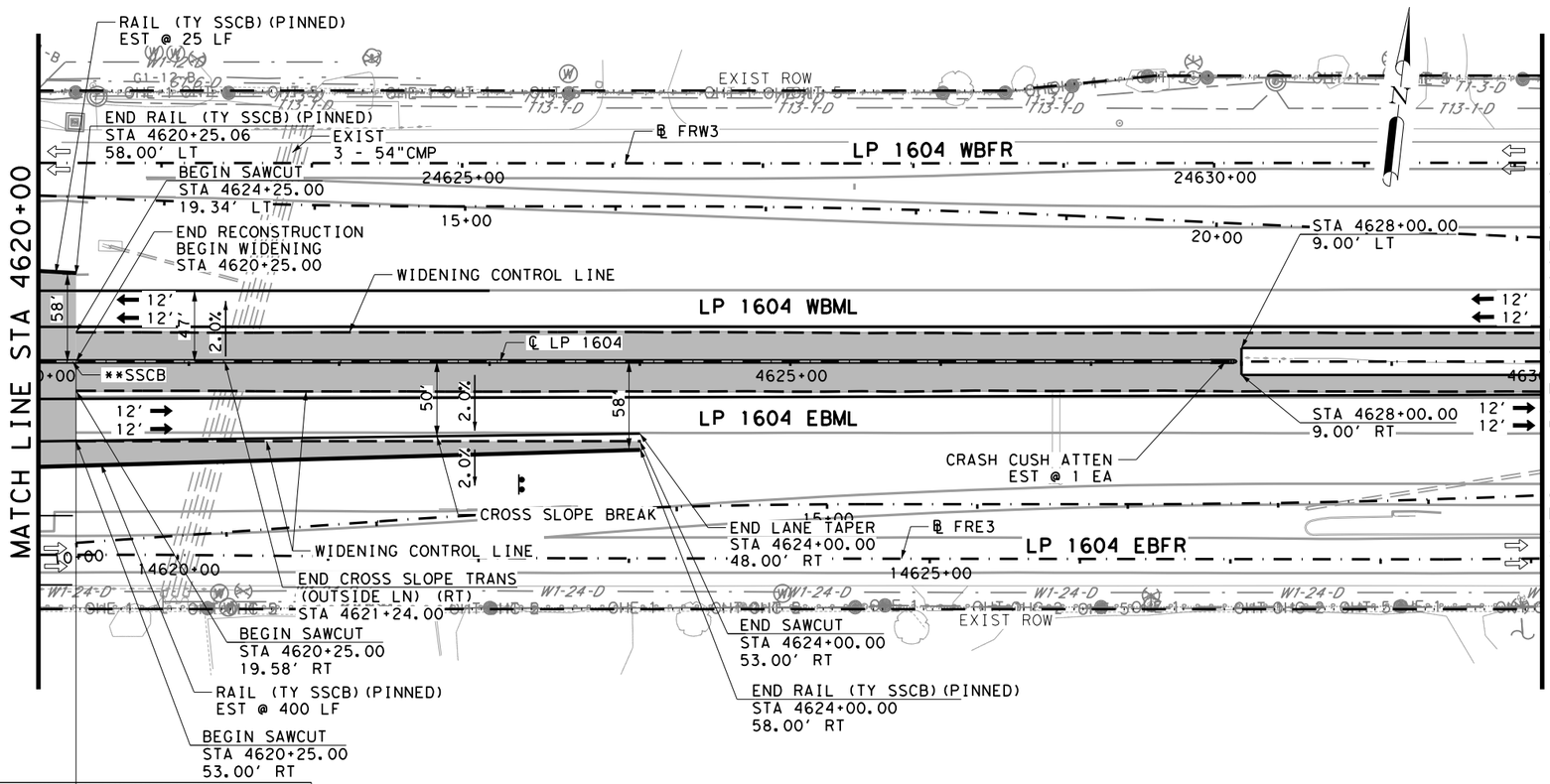
MAINLANE PLAN AND PROFILE

STA 4610+00 TO STA 4620+00

SHEET 23 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	839

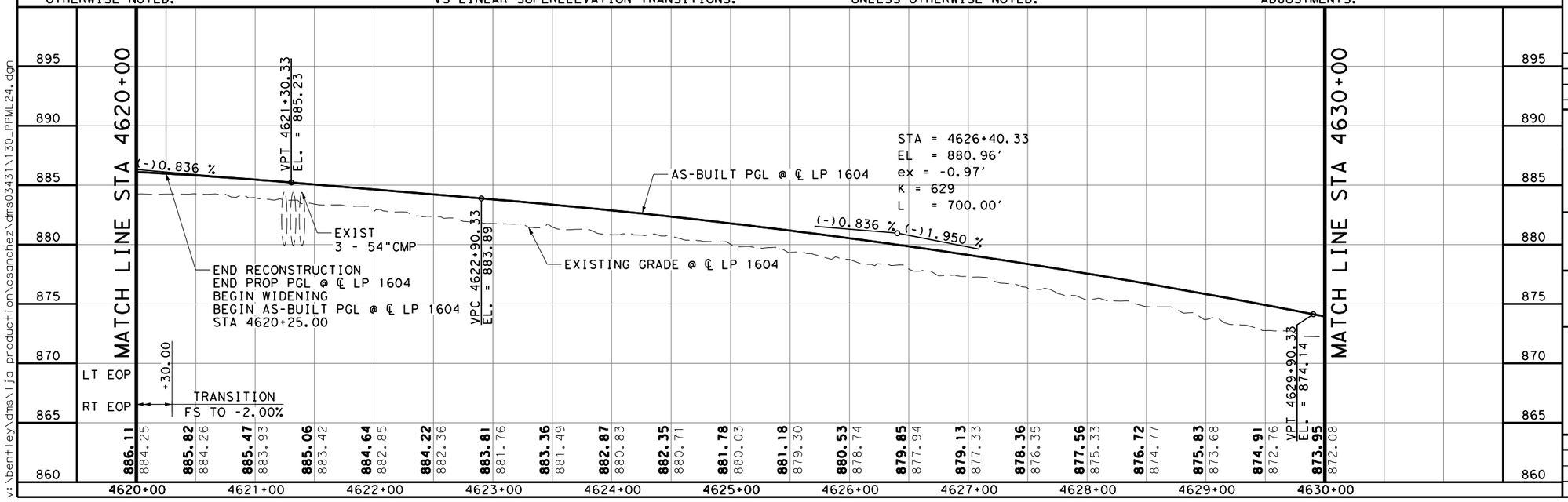
4:02:47 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML23.dgn



** CONCRETE MEDIAN BARRIER LIMITS			
TYPE	FROM STA	TO STA	LENGTH
PERM CTB (SGL SLOPE) (TY 1) (48)	4620+00	4627+80	780

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4") PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	4348
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	4995
0514	6005	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	1205
0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
3076	6001	D-GR HMA TY-B PG 64-22	SY	4995
3076	6023	D-GR HMA TY-C PG70-22	SY	4995
3076	6066	TACK COAT	SY	14984
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4995
3085	6001	UNDERSEAL COURSE	SY	9990

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

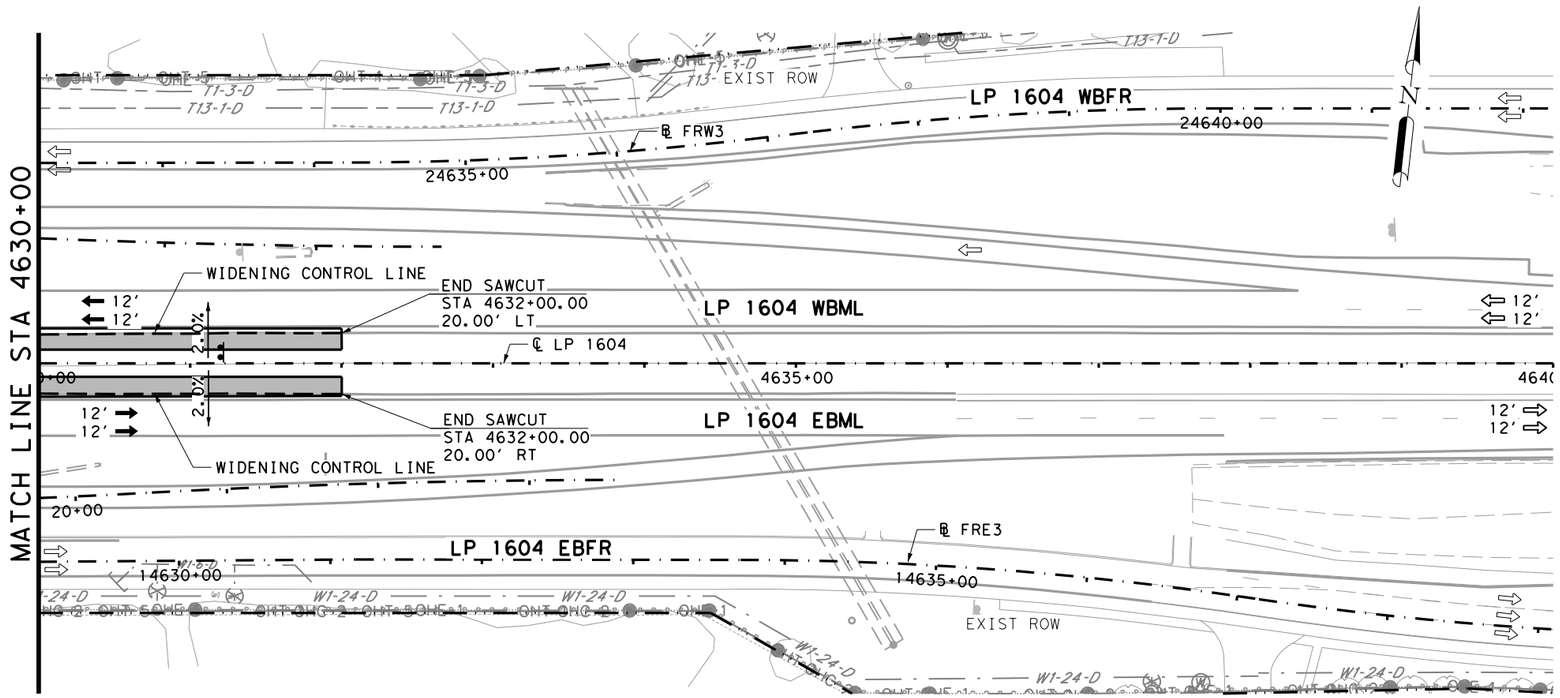
LP 1604

MAINLANE PLAN AND PROFILE

STA 4620+00 TO END PROJECT

SHEET 24 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	840



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- *S1-1-D* — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

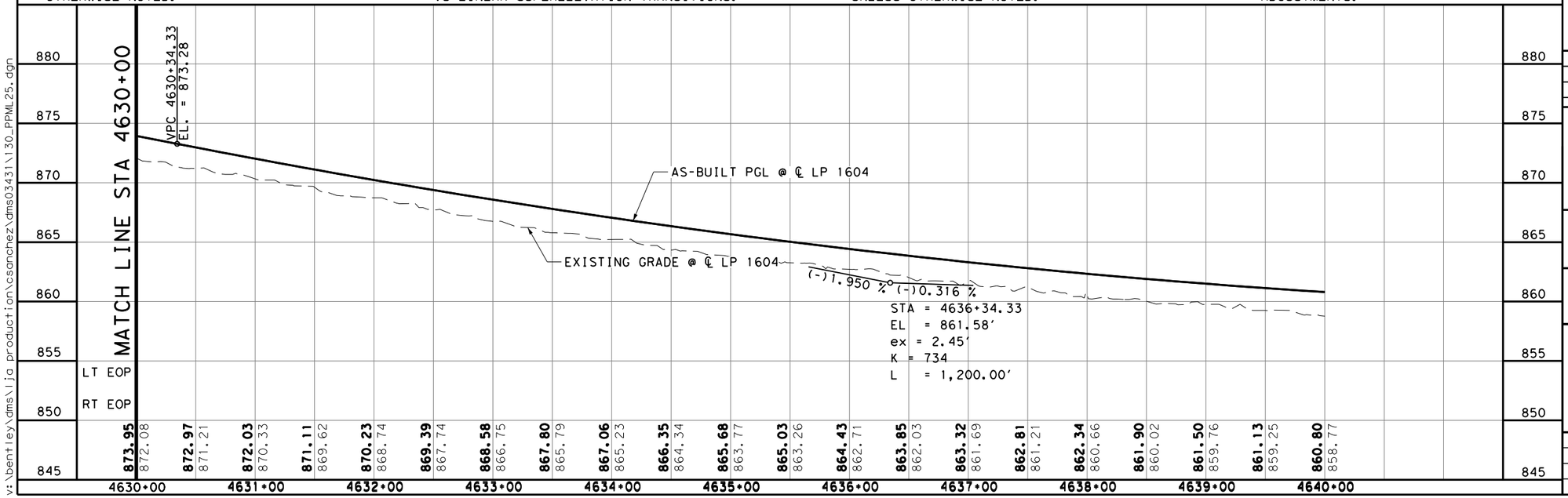
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	308
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	397
3076	6001	D-GR HMA TY-B PG 64-22	SY	397
3076	6023	D-GR HMA TY-C PG70-22	SY	485
3076	6066	TACK COAT	SY	1367
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	485
3085	6001	UNDERSEAL COURSE	SY	970

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 3/1/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

JAMES A. LUTZ, P.E. — 3/1/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

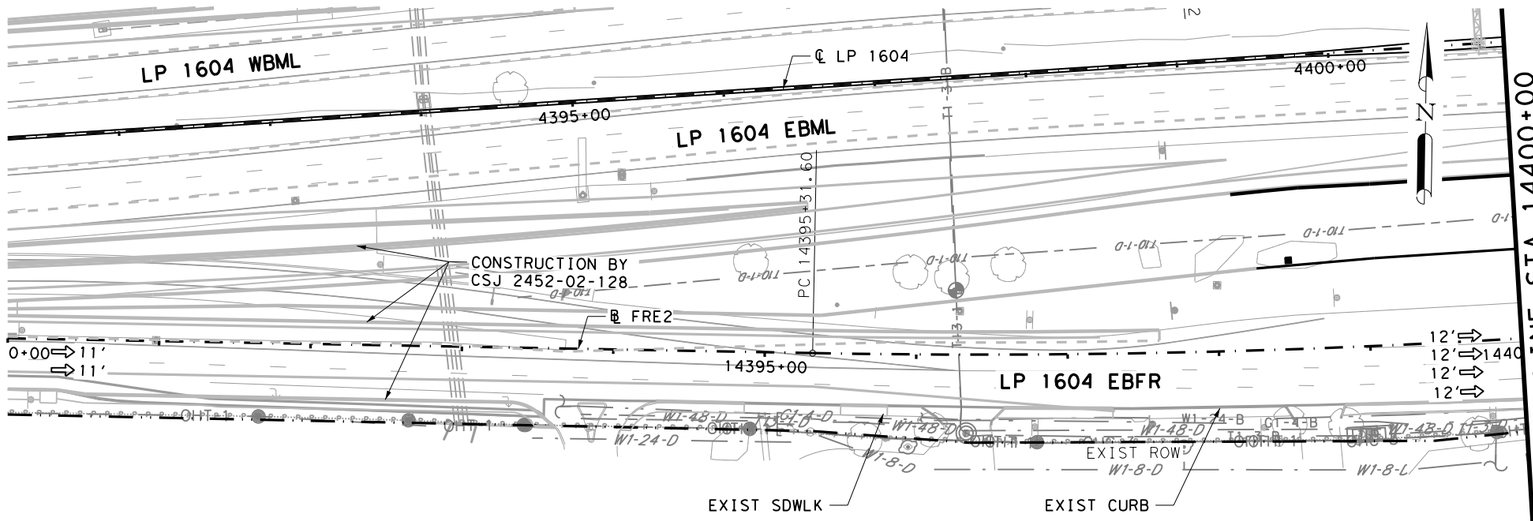
MAINLANE PLAN AND PROFILE

STA 4630+00 TO END PROJECT

SHEET 25 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	841

3/1/2023 8:42:49 AM
v:\bentley\dms\lja production\csanchez\dms03431\130_PPML25.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

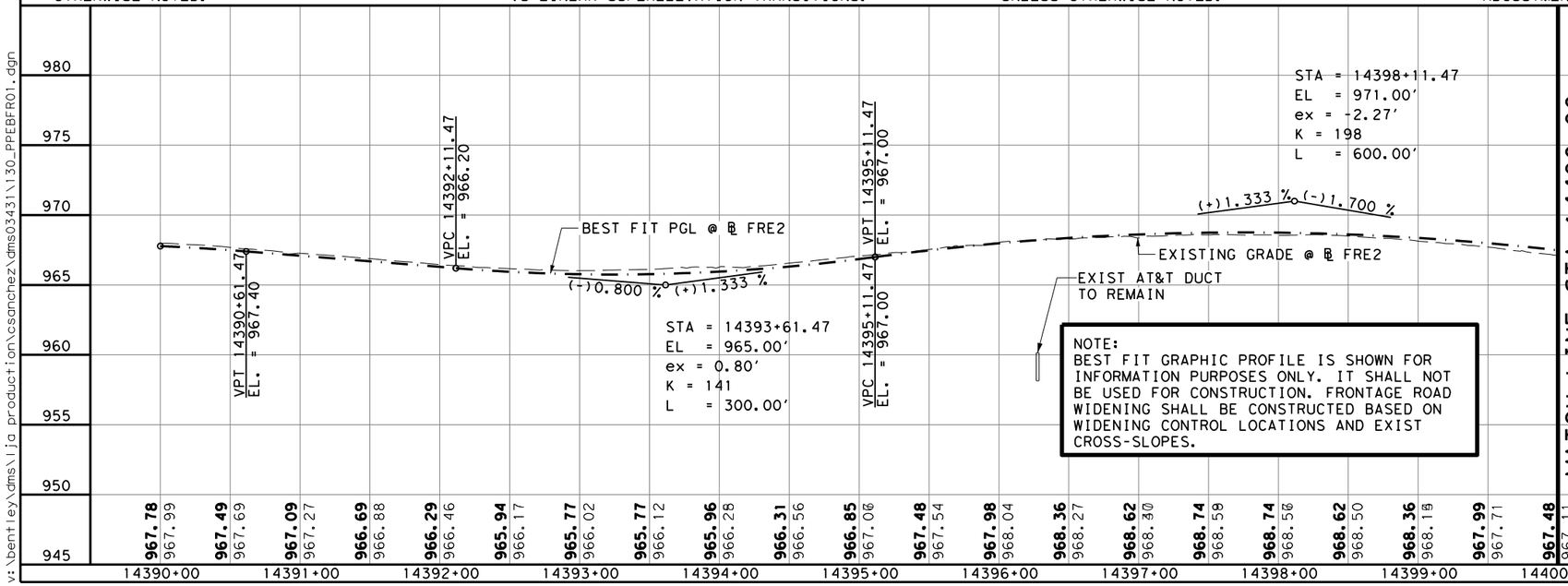
QUANTITY SUMMARY CSJ 2452-02-130

ITEM	DESC	DESCRIPTION	UNIT	QTY

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

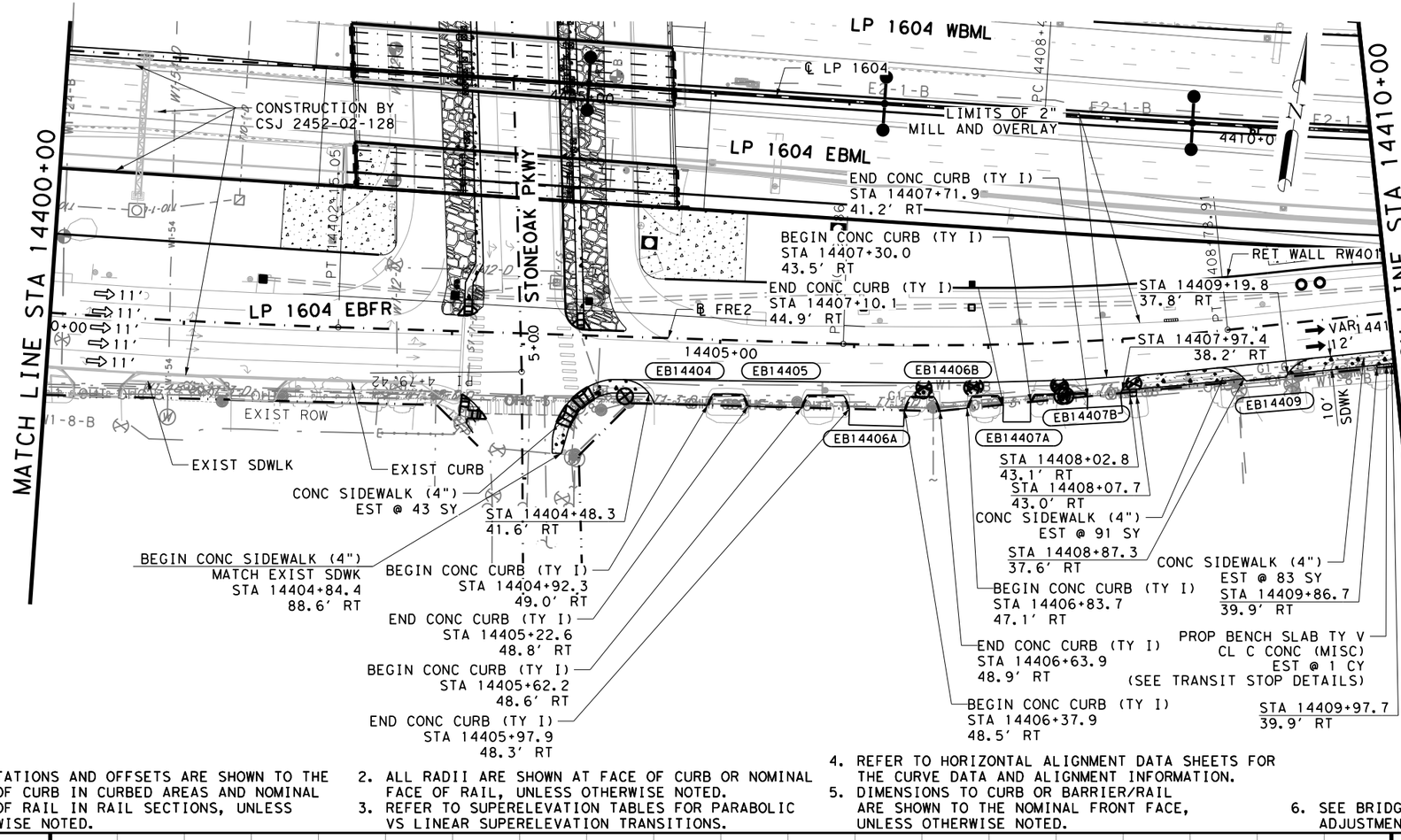
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
BEGIN PROJECT TO STA 14400+00

SHEET 1 OF 24

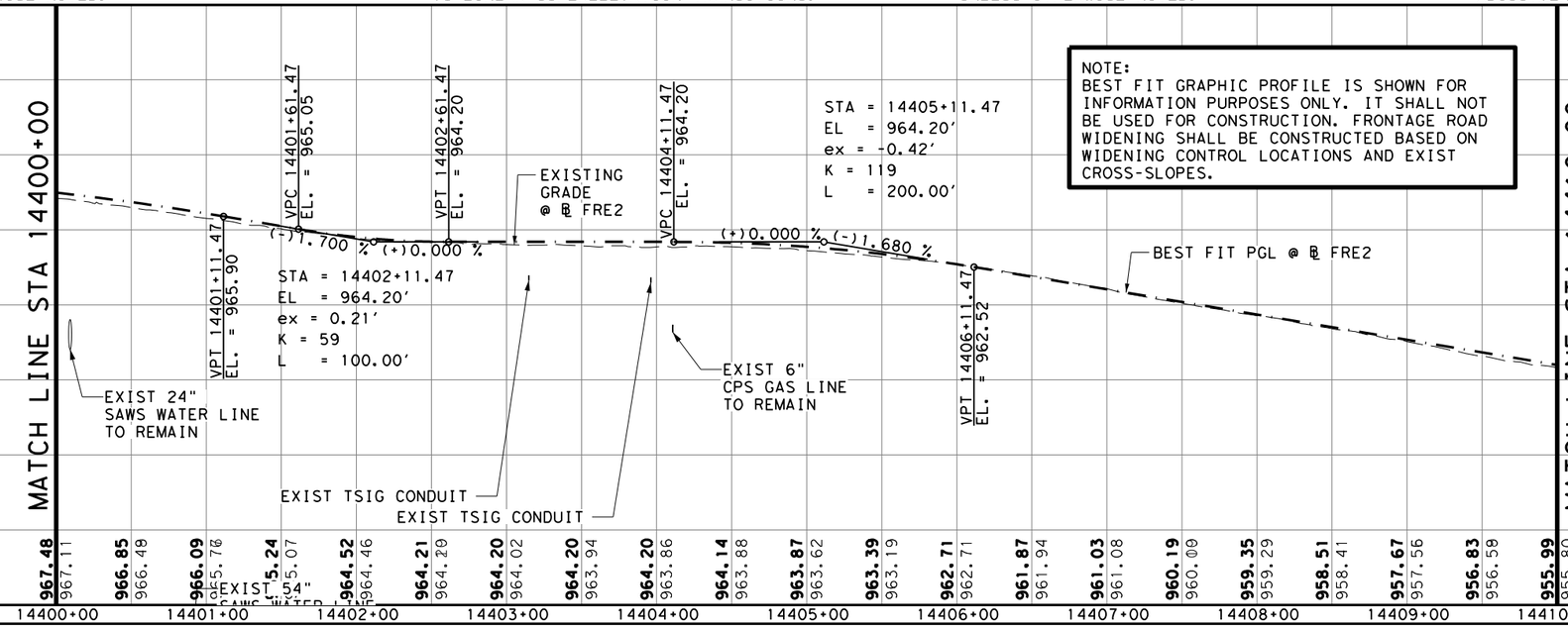
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	842

4:04:55 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR01.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4") PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	673
	0354	6045	PLANE ASPH CONC PAV (2")	SY	6730
	0420	6074	CL C CONC (MISC)	CY	1
	0531	6001	CONC SIDEWALKS (4")	SY	217
*	3076	6023	D-GR HMA TY-C PG70-22	SY	6730
*	3076	6066	TACK COAT	SY	6730
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	6730
*	3085	6001	UNDERSEAL COURSE	SY	13460

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

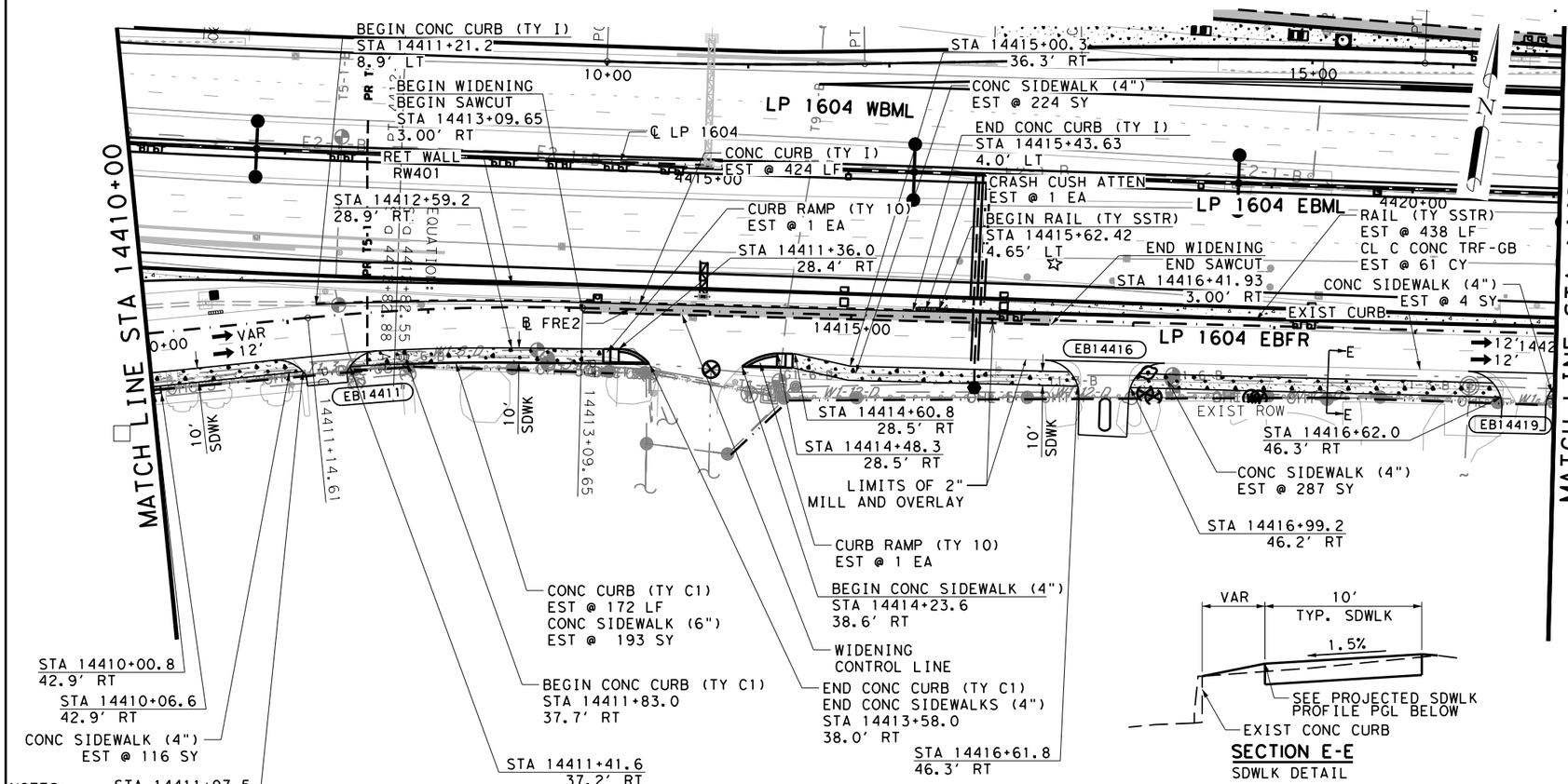
LJA Engineering, Inc.
FRN - F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14400+00 TO STA 14410+00

SHEET 2 OF 24

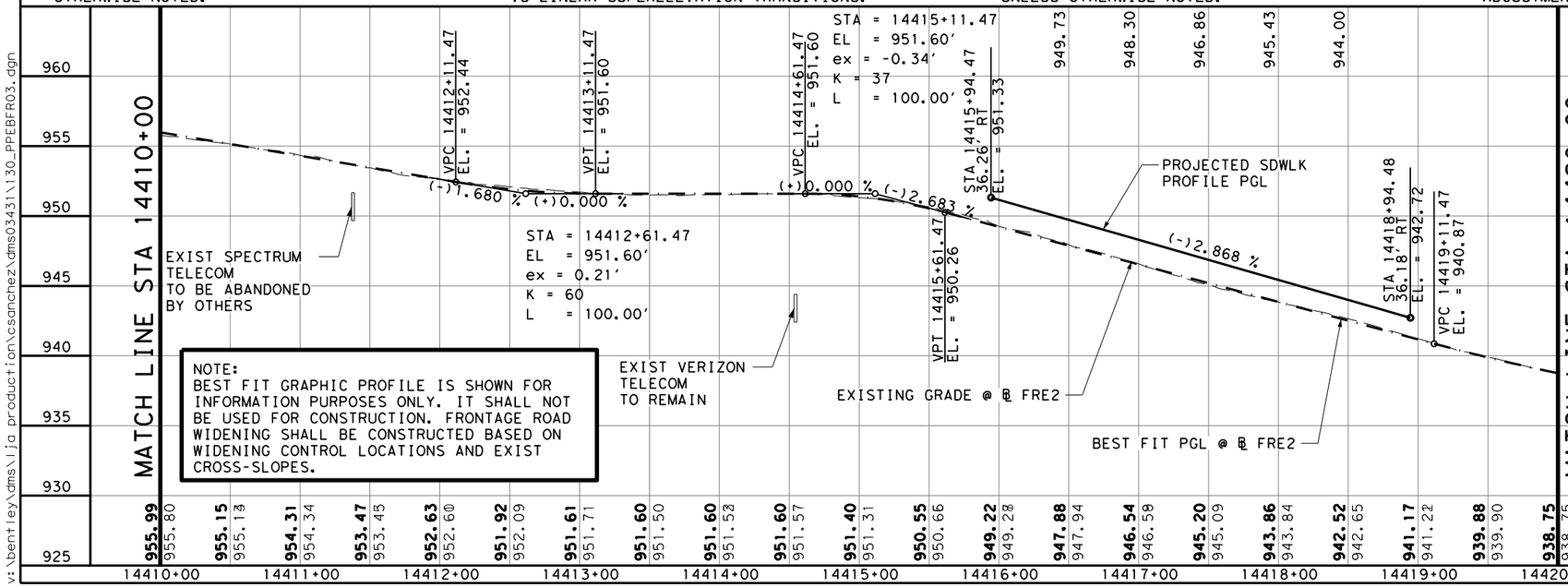
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	843

4:05:38 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR02.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

EXIST ROW	
EXIST DRN ESMNT	
WIDENING CONTROL LINE	
EXIST TRF FLOW	
PROP TRF FLOW	
PROP CONCRETE	
COLOR TEXTURED CONC (4")	
PROP WIDENING/ RECONSTRUCTION	
WETLANDS	
OHWM	
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
SI-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	332
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	332
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	378
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3522
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	61
	0450	6023	RAIL (TY SSTR)	LF	438
	0529	6001	CONC CURB (TY I)	LF	424
	0529	6015	CONC CURB (TY C1)	LF	172
	0531	6001	CONC SIDEWALKS (4")	SY	631
	0531	6003	CONC SIDEWALKS (6")	SY	193
	0531	6013	CURB RAMPS (TY 10)	EA	2
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	332
*	3076	6023	D-GR HMA TY-C PG70-22	SY	3836
*	3076	6066	TACK COAT	SY	3836
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3780
*	3085	6001	UNDERSEAL COURSE	SY	7616

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

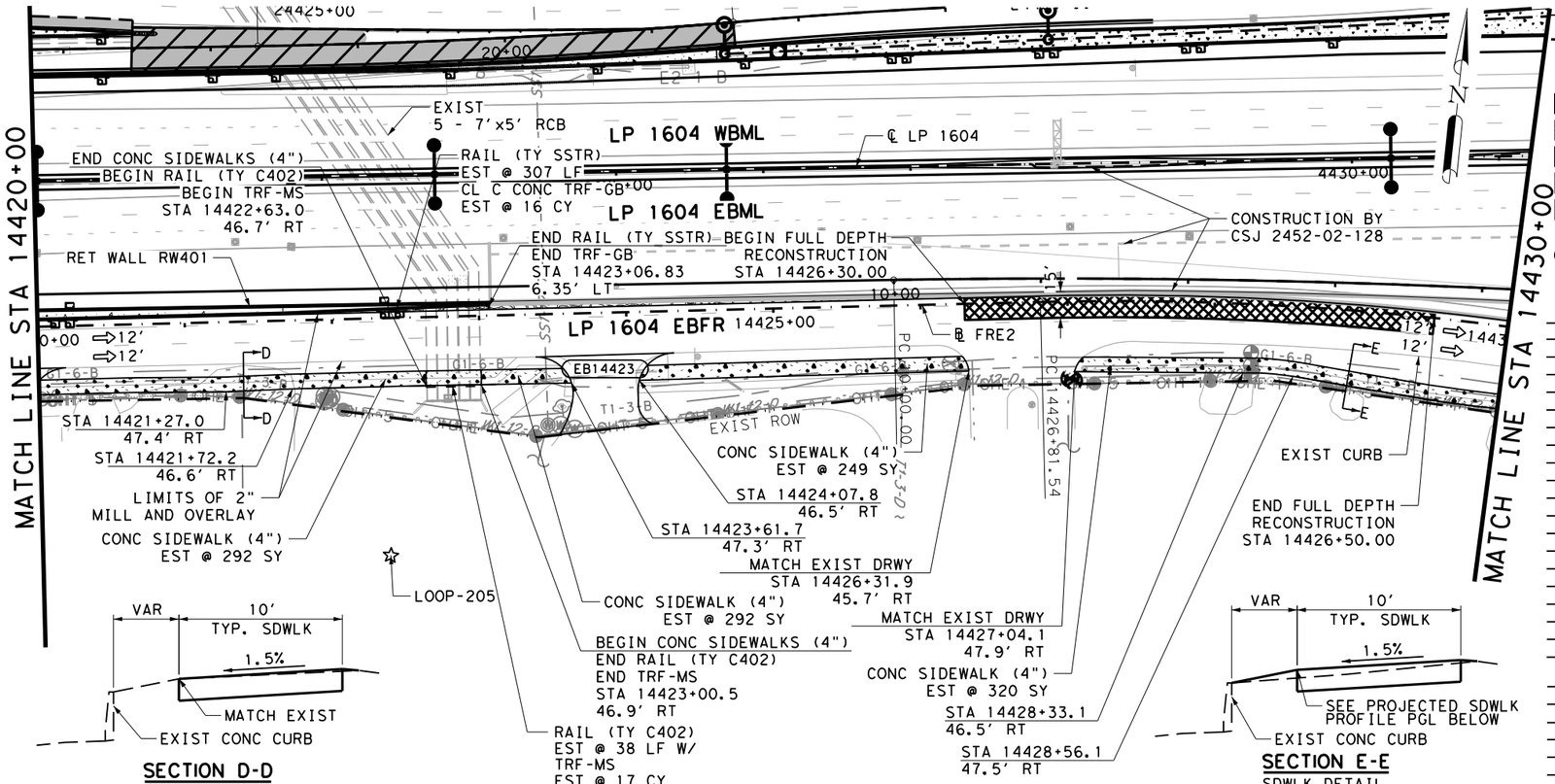
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14410+00 TO STA 14420+00

SHEET 3 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	844

2/28/2023 4:06:20 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR03.dgn



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
SI-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

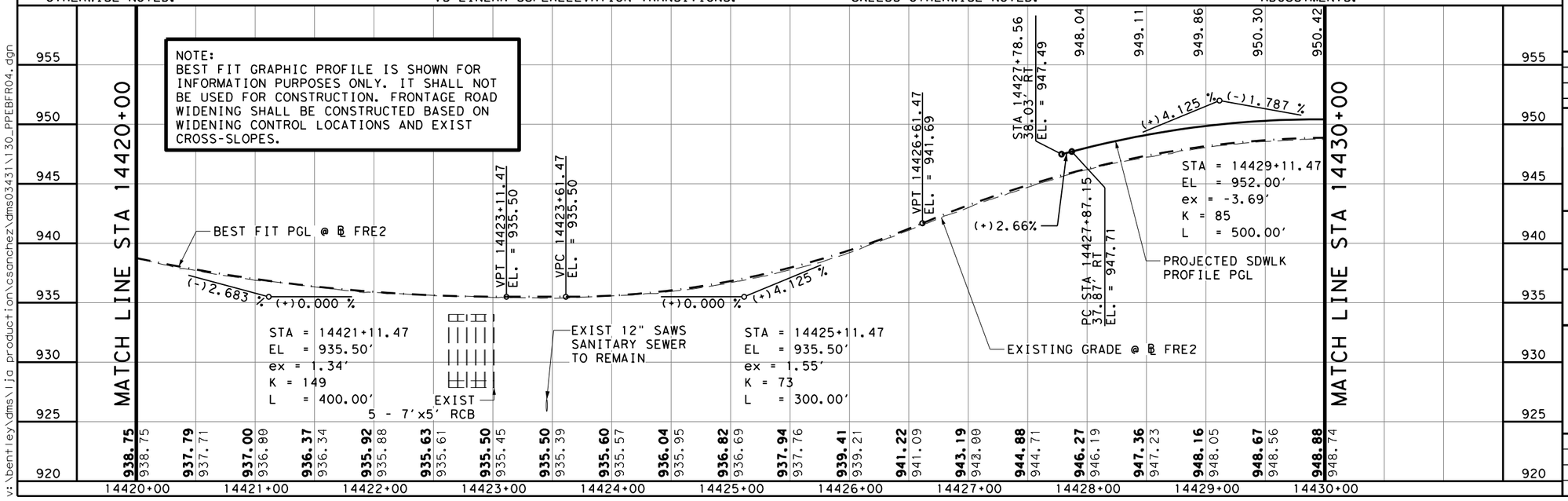
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	568
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	371
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3383
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	60
	0450	6023	RAIL (TY SSTR)	LF	307
	0450	6034	RAIL (TY C402)	LF	38
	0531	6001	CONC SIDEWALKS (4")	SY	861
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	568
*	3076	6023	D-GR HMA TY-C PG70-22	SY	3933
*	3076	6066	TACK COAT	SY	3933
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3712
*	3085	6001	UNDERSEAL COURSE	SY	7645

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

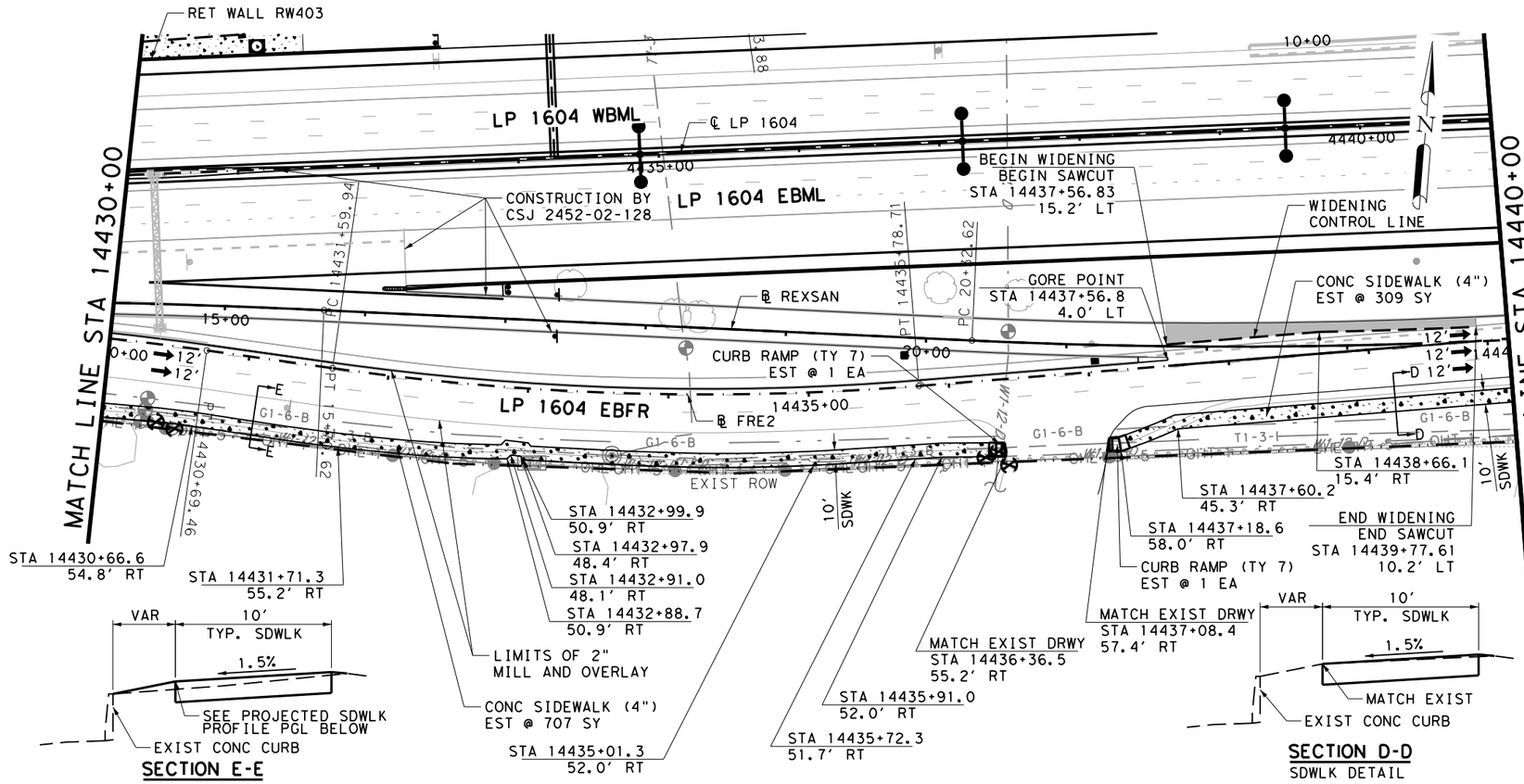
LJA Engineering, Inc.
FRN-F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14420+00 TO STA 14430+00

SHEET 4 OF 24

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	845

4:07:02 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR04.dgn



SECTION E-E
SDWLK DETAIL

SECTION D-D
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

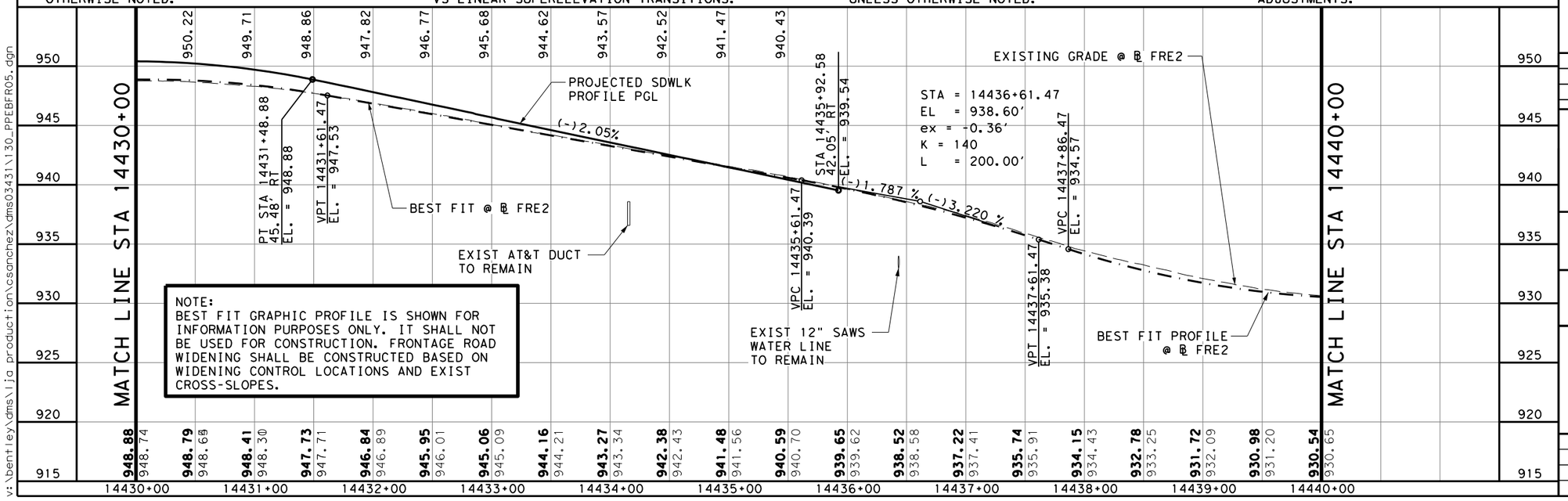
QUANTITY SUMMARY CSJ 2452-02-130

ITEM	DESC	DESCRIPTION	UNIT	QTY
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	245
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	361
0354	6045	PLANE ASPH CONC PAV (2")	SY	3388
0531	6001	CONC SIDEWALKS (4")	SY	1016
0531	6010	CURB RAMPS (TY 7)	EA	2
* 3076	6001	D-GR HMA TY-B PG 64-22	SY	245
* 3076	6023	D-GR HMA TY-C PG70-22	SY	3646
* 3076	6066	TACK COAT	SY	3646
* 3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3609
* 3085	6001	UNDERSEAL COURSE	SY	7255

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

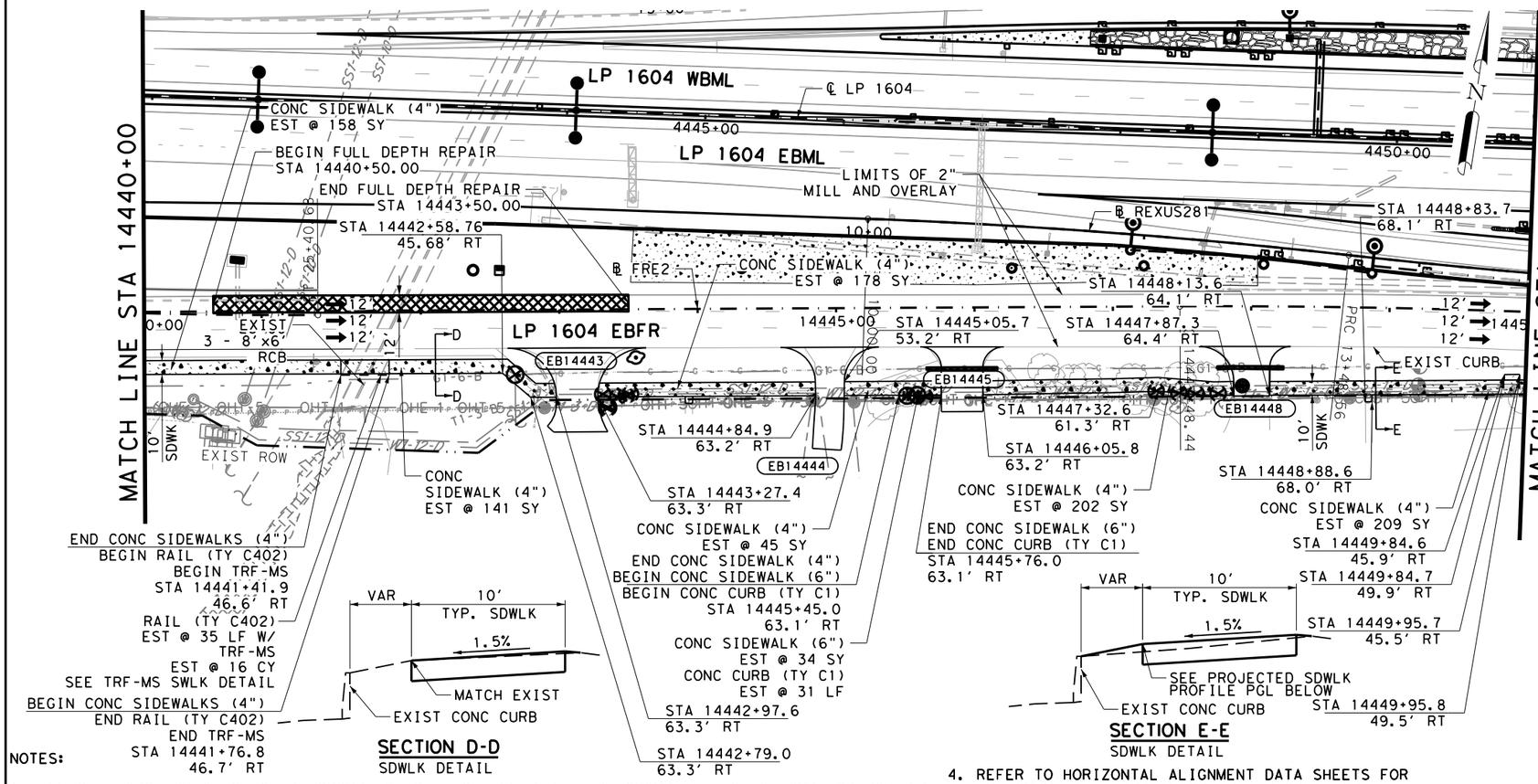
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14430+00 TO STA 14440+00

SHEET 5 OF 24

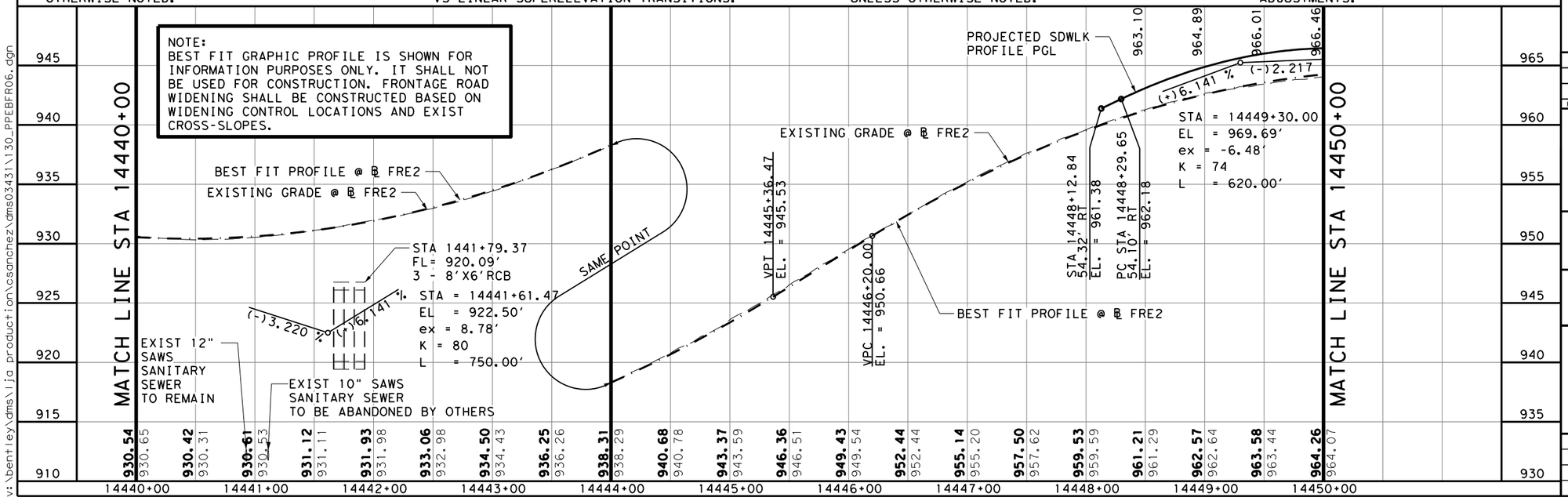
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	846

4:07:43 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR05.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	441
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	460
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4196
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	16
	0450	6034	RAIL (TY C402)	LF	35
	0529	6015	CONC CURB (TY C1)	LF	31
	0531	6001	CONC SIDEWALKS (4")	SY	933
	0531	6003	CONC SIDEWALKS (6")	SY	34
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	441
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4620
*	3076	6066	TACK COAT	SY	4620
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4604
*	3085	6001	UNDERSEAL COURSE	SY	9224

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — 2/28/2023

R. MATTHEW ESTES, P.E. — DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — 2/28/2023

JAMES A. LUTZ, P.E. — DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

EBFR

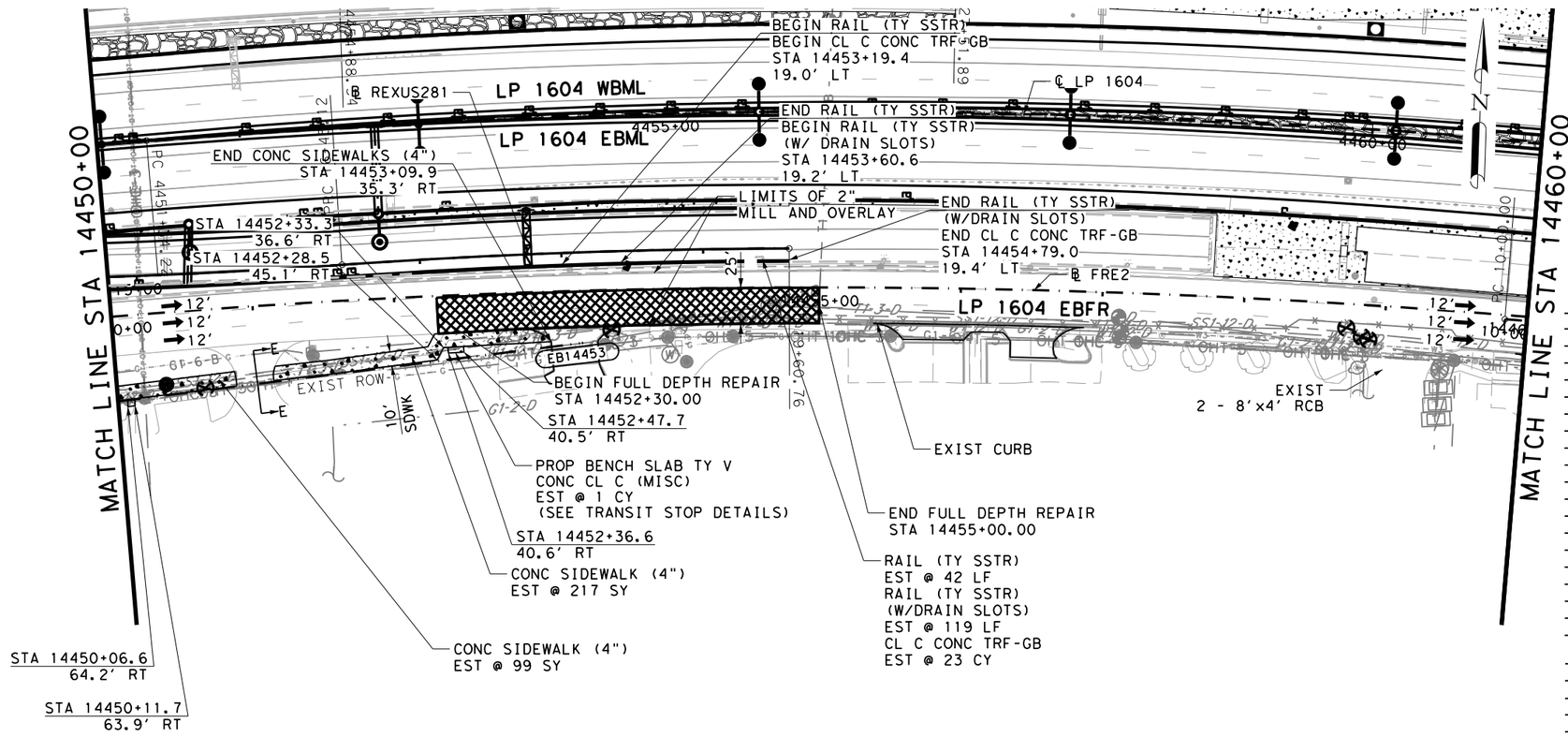
PLAN AND PROFILE

STA 14440+00 TO STA 14450+00

SHEET 6 OF 25

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	847

2/28/2023
4:08:25 PM
v:\bentley\dms\lja production\sanchez\dms03431\130_PPEBFR06.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

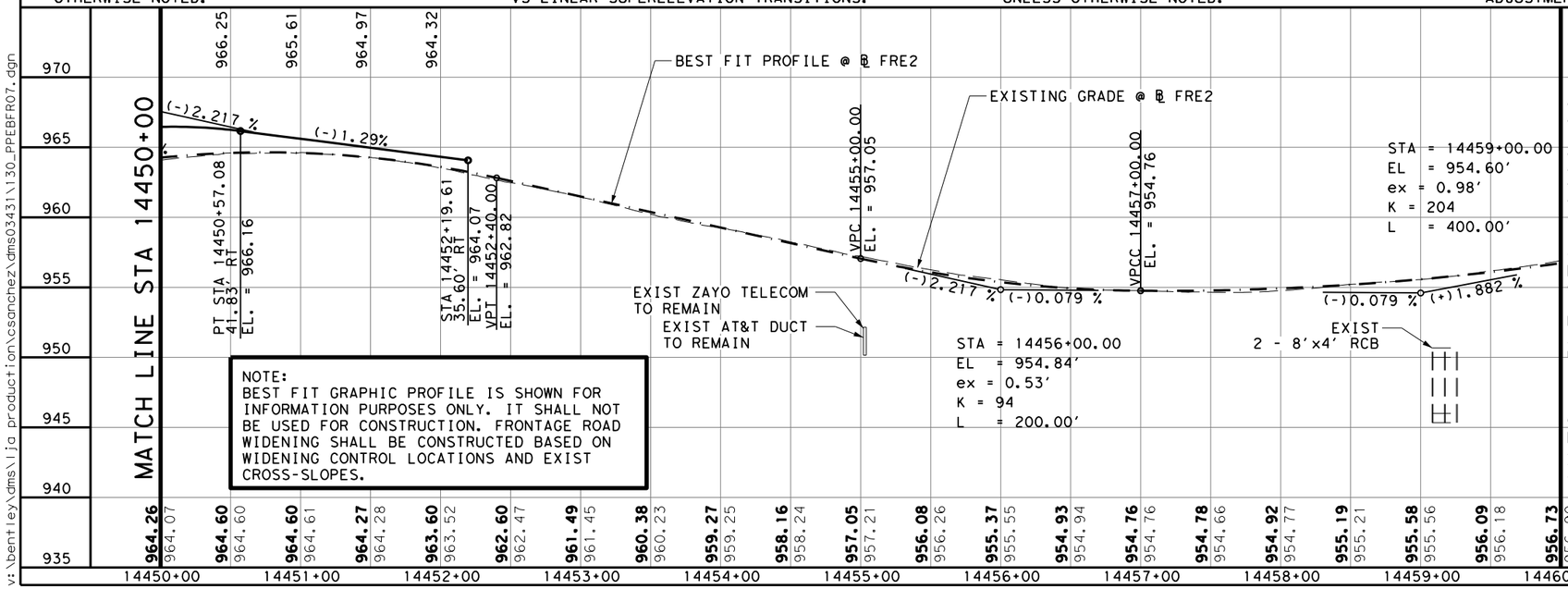
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	781
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	439
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3638
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	23
	0420	6074	CL C CONC (MISC)	CY	1
	0450	6023	RAIL (TY SSTR)	LF	42
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	119
	0531	6001	CONC SIDEWALKS (4")	SY	316
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	781
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4403
*	3076	6066	TACK COAT	SY	4403
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4388
*	3085	6001	UNDERSEAL COURSE	SY	8791

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

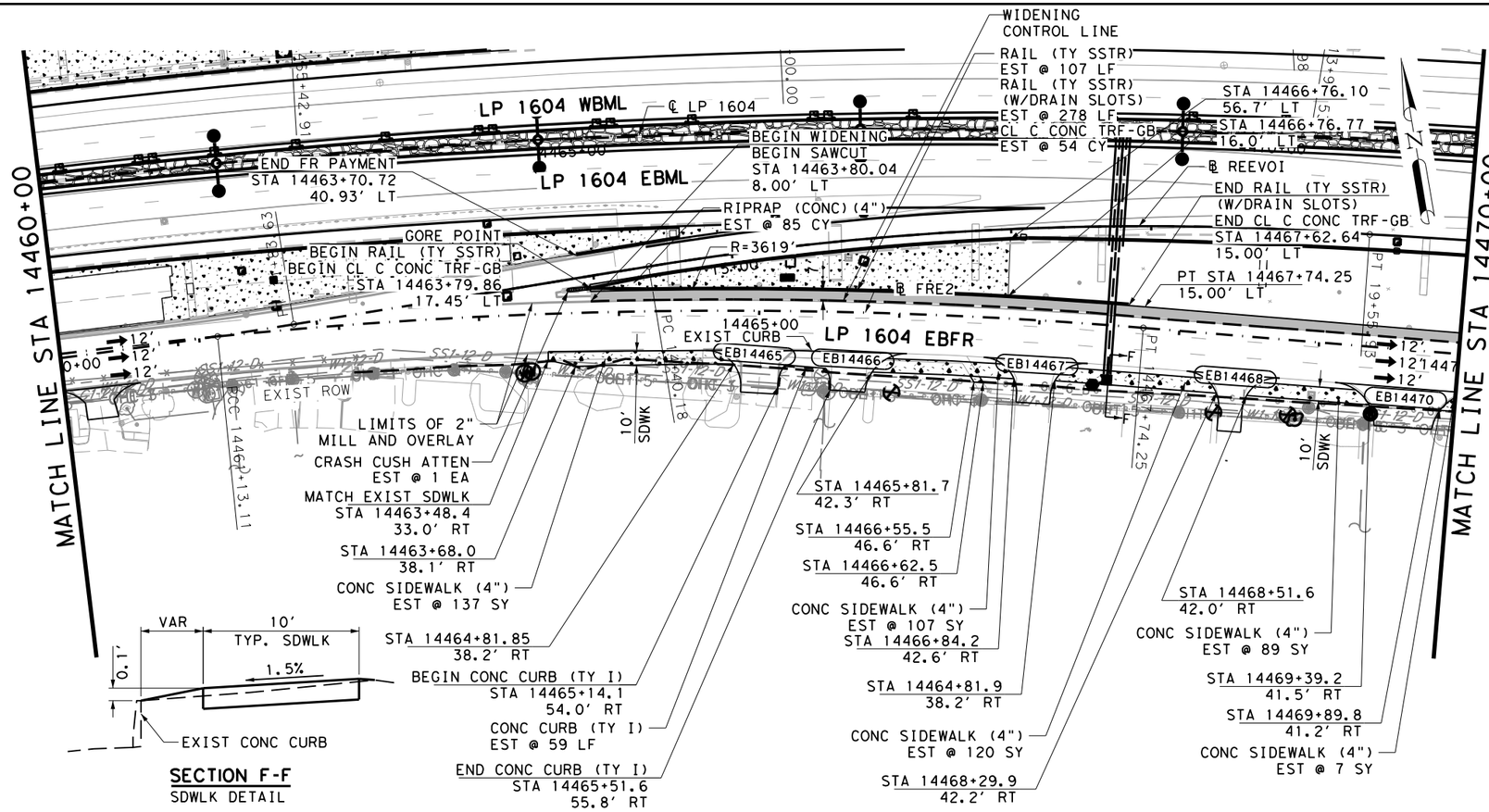
Texas Department of Transportation ©2023

LP 1604
EBFR
PLAN AND PROFILE
STA 14450+00 TO STA 14460+00

SHEET 7 OF 24

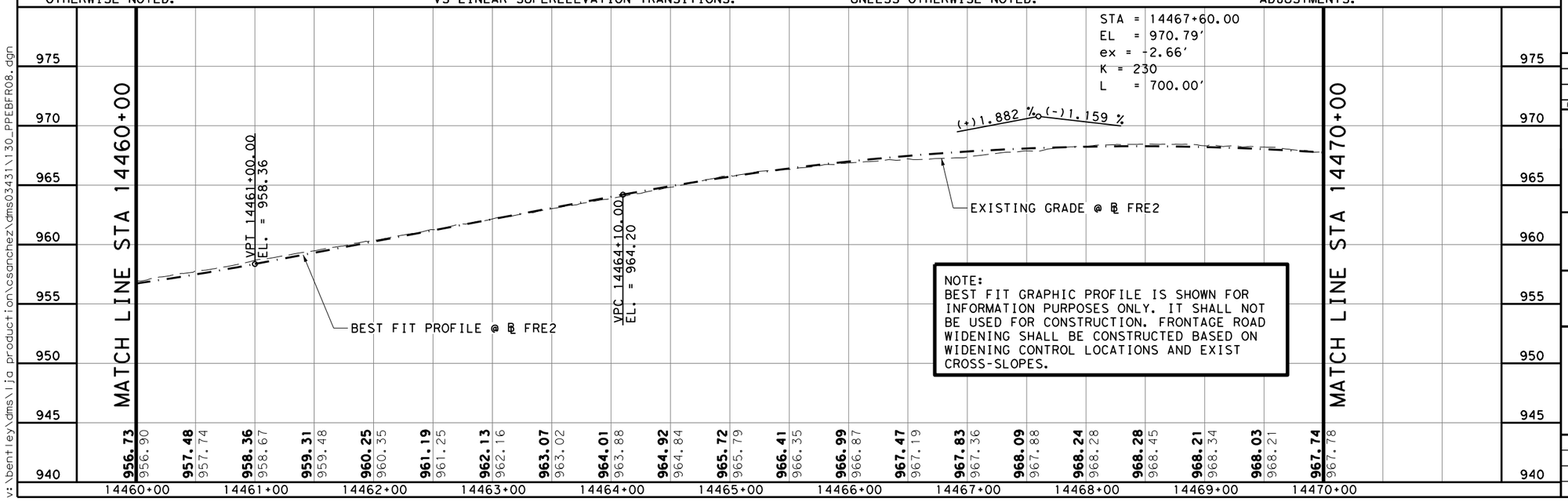
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	848

2/28/2023
4:09:09 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR07.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	395
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	451
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	445
0354	6045	PLANE ASPH CONC PAV (2")	SY	3953
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	54
0432	6001	RIPRAP (CONC) (4 IN)	CY	85
0450	6023	RAIL (TY SSTR)	LF	107
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	278
0531	6001	CONC SIDEWALKS (4")	SY	460
0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
3076	6001	D-GR HMA TY-B PG 64-22	SY	451
3076	6023	D-GR HMA TY-C PG70-22	SY	4466
3076	6066	TACK COAT	SY	4466
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4453
3085	6001	UNDERSEAL COURSE	SY	8919

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — 2/28/2023 DATE

R. MATTHEW ESTES, P.E.

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — 2/28/2023 DATE

JAMES A. LUTZ, P.E.

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

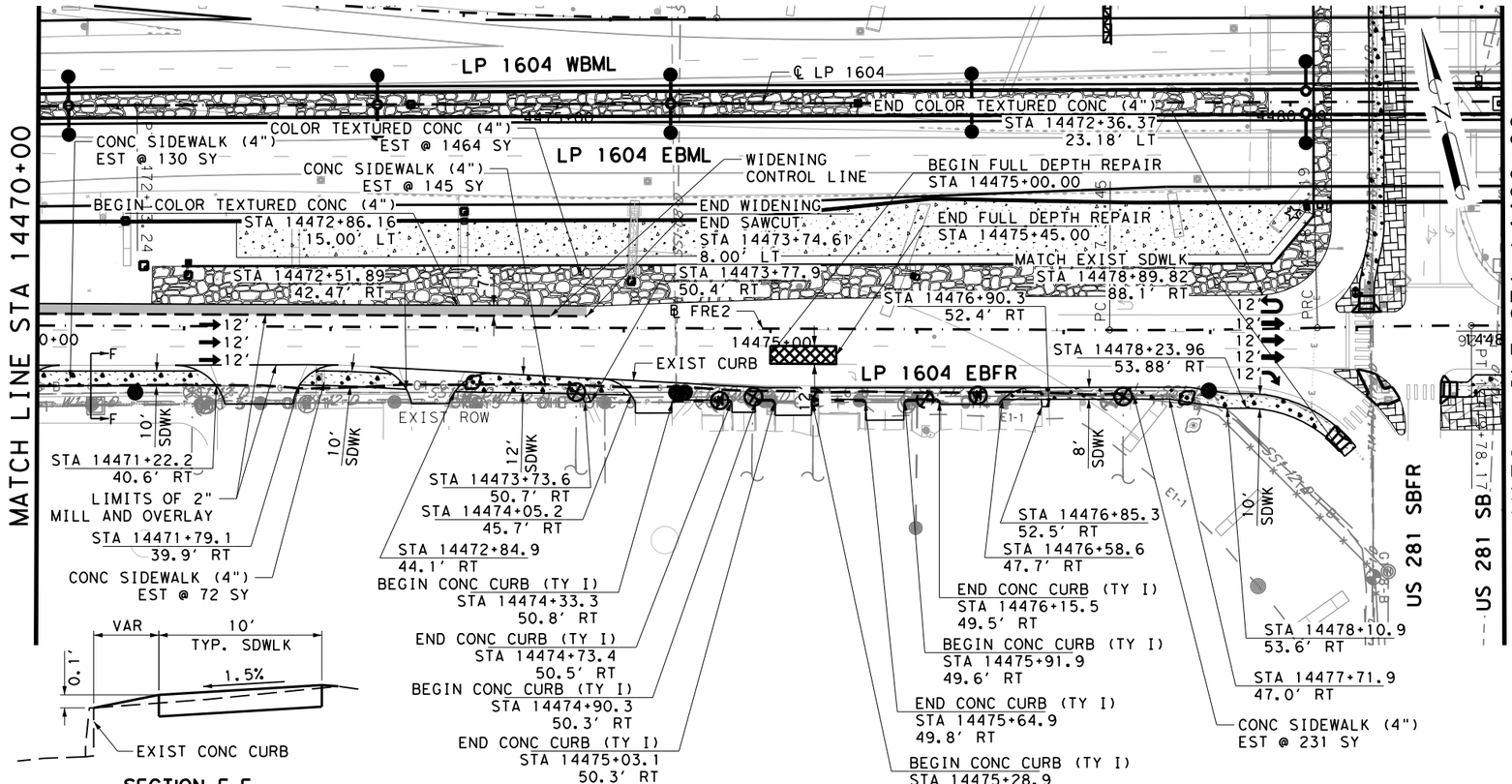
LJA Engineering, Inc.
FRN-F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14460+00 TO STA 14470+00

SHEET 8 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	849

4:09:53 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR08.dgn



SECTION F-F
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

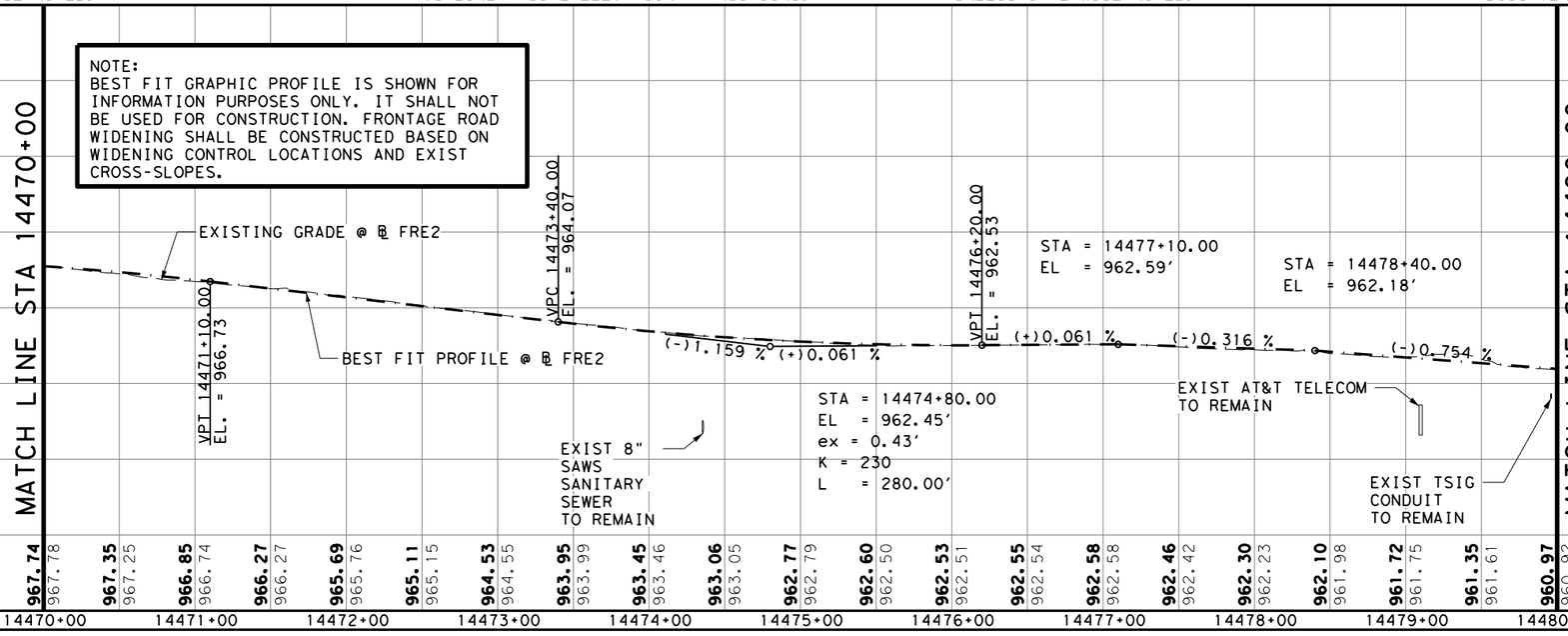
	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	250
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	341
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	735
	0354	6045	PLANE ASPH CONC PAV (2")	SY	6998
	0528	6001	COLORED TEXTURED CONC (4")	SY	1464
	0529	6001	CONC CURB (TY I)	LF	114
	0531	6001	CONC SIDEWALKS (4")	SY	578
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	341
*	3076	6023	D-GR HMA TY-C PG70-22	SY	7355
*	3076	6066	TACK COAT	SY	7355
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	7350
*	3085	6001	UNDERSEAL COURSE	SY	14706

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.



DESIGN
R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL
JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

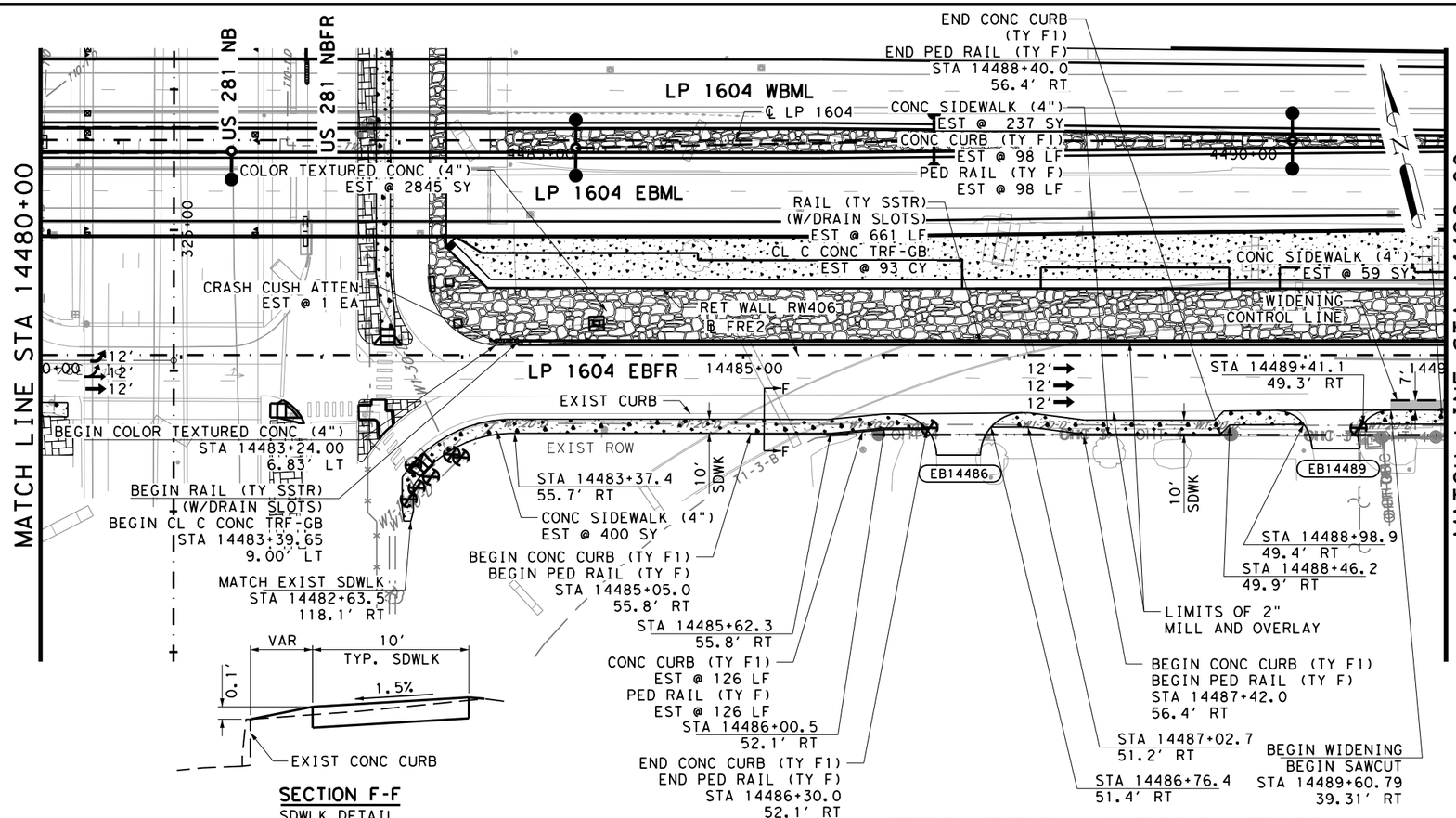
LJA Engineering, Inc.
FRN - F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14470+00 TO STA 14480+00

SHEET 9 OF 24

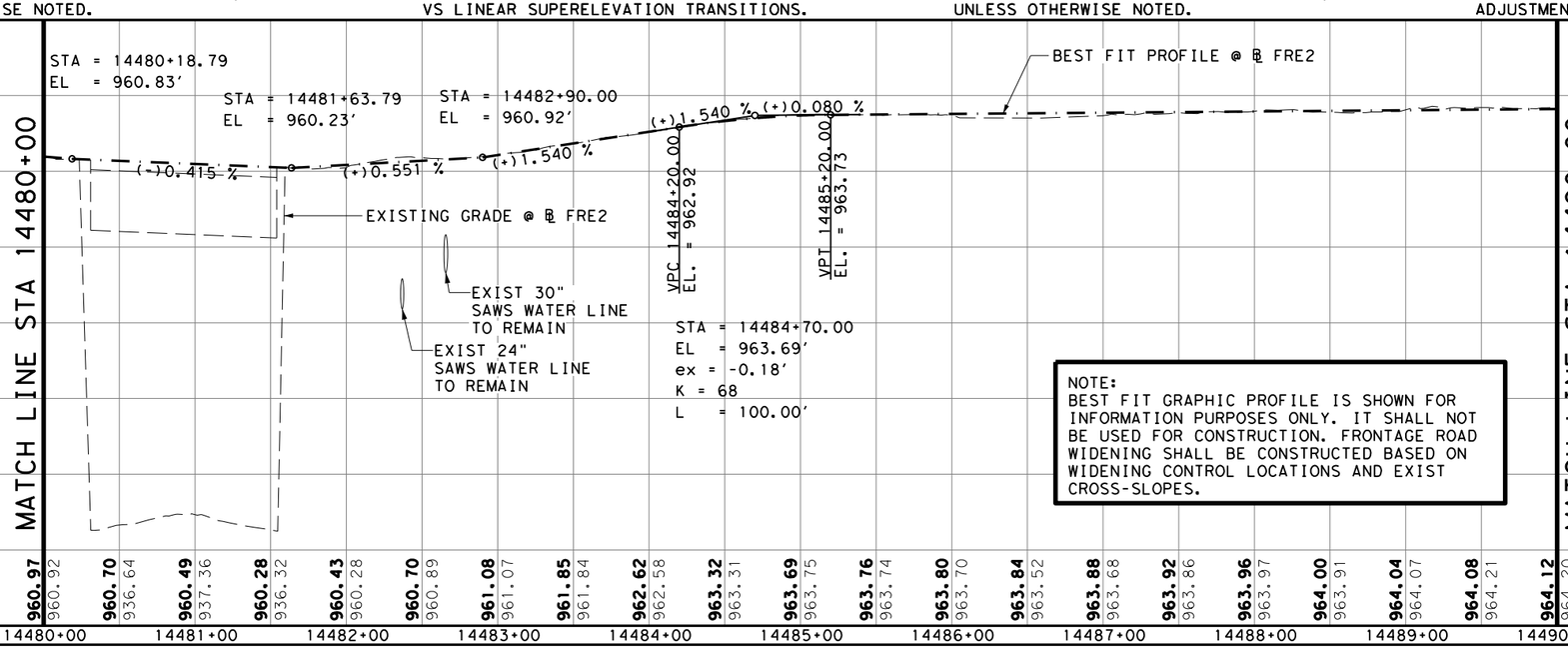
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	850

4:10:39 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR09.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	33
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	35
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	709
	0354	6045	PLANE ASPH CONC PAV (2")	SY	7060
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	93
	0432	6001	RIPRAP (CONC) (4 IN)	CY	72
	0450	6052	RAIL (HANDRAIL) (TY F)	LF	224
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	661
	0528	6001	COLORED TEXTURED CONC (4")	SY	2087
	0529	6016	CONC CURB (TY F1)	LF	224
	0531	6001	CONC SIDEWALKS (4")	SY	696
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	35
*	3076	6023	D-GR HMA TY-C PG70-22	SY	7097
*	3076	6066	TACK COAT	SY	7097
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	7091
*	3085	6001	UNDERSEAL COURSE	SY	14188

* FOR CONTRACTOR'S INFORMATION ONLY

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

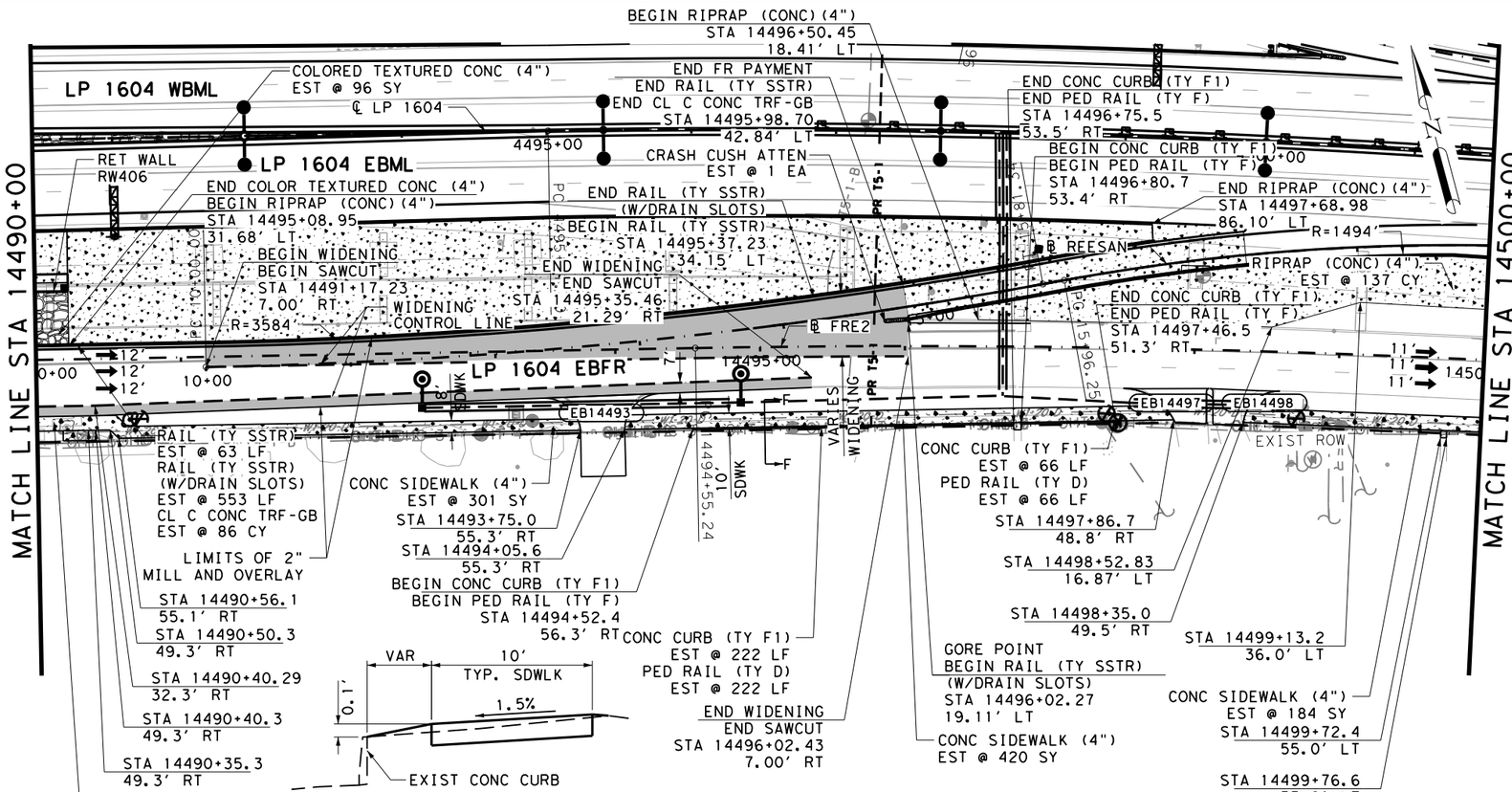
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14480+00 TO STA 14490+00

SHEET 10 OF 24

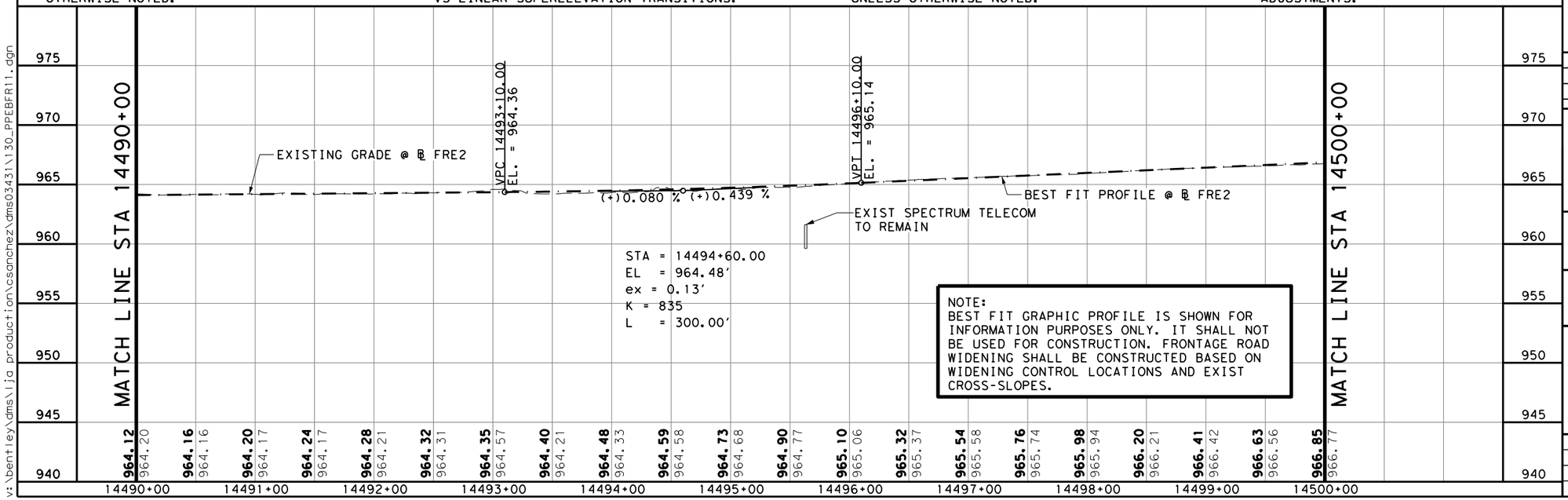
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	851

4:11:21 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR10.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- CURVE ID LABEL (XXX-X)
- DRIVEWAY ID (XXXXX)
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	1254
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1308
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	525
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4198
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	86
	0432	6001	RIPRAP (CONC) (4 IN)	CY	137
	0450	6023	RAIL (TY SSTR)	LF	63
	0450	6050	RAIL (HANDRAIL) (TY D)	LF	85
	0450	6052	RAIL (HANDRAIL) (TY F)	LF	288
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	553
	0528	6001	COLORED TEXTURED CONC (4")	SY	96
	0529	6016	CONC CURB (TY F1)	LF	288
	0531	6001	CONC SIDEWALKS (4")	SY	941
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1308
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5589
*	3076	6066	TACK COAT	SY	5589
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5248
*	3085	6001	UNDERSEAL COURSE	SY	10837

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

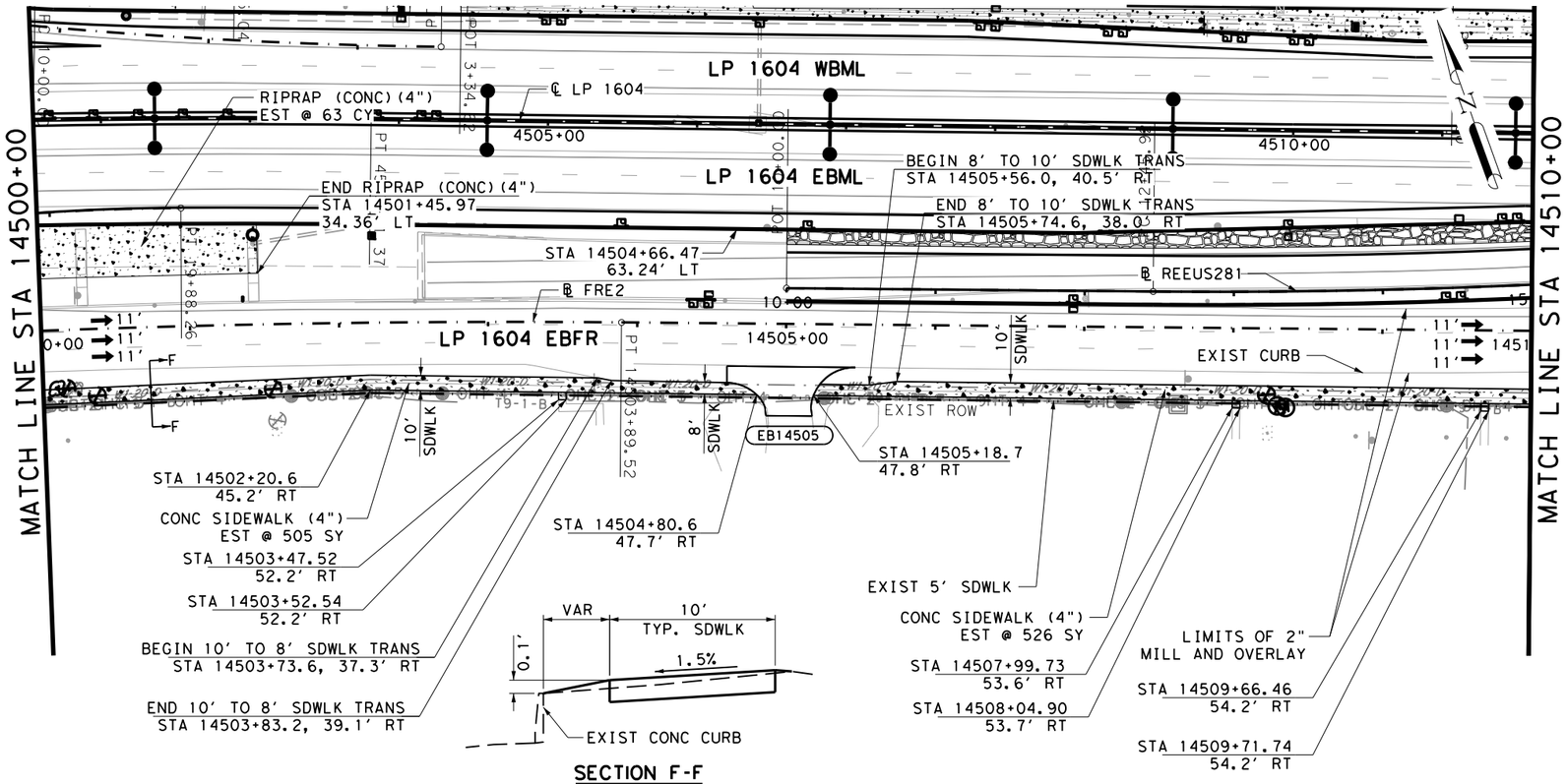
LJA Engineering, Inc.
FRN-F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14490+00 TO STA 14500+00

SHEET 11 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	852

4:12:05 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR11.dgn



SECTION F-F
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

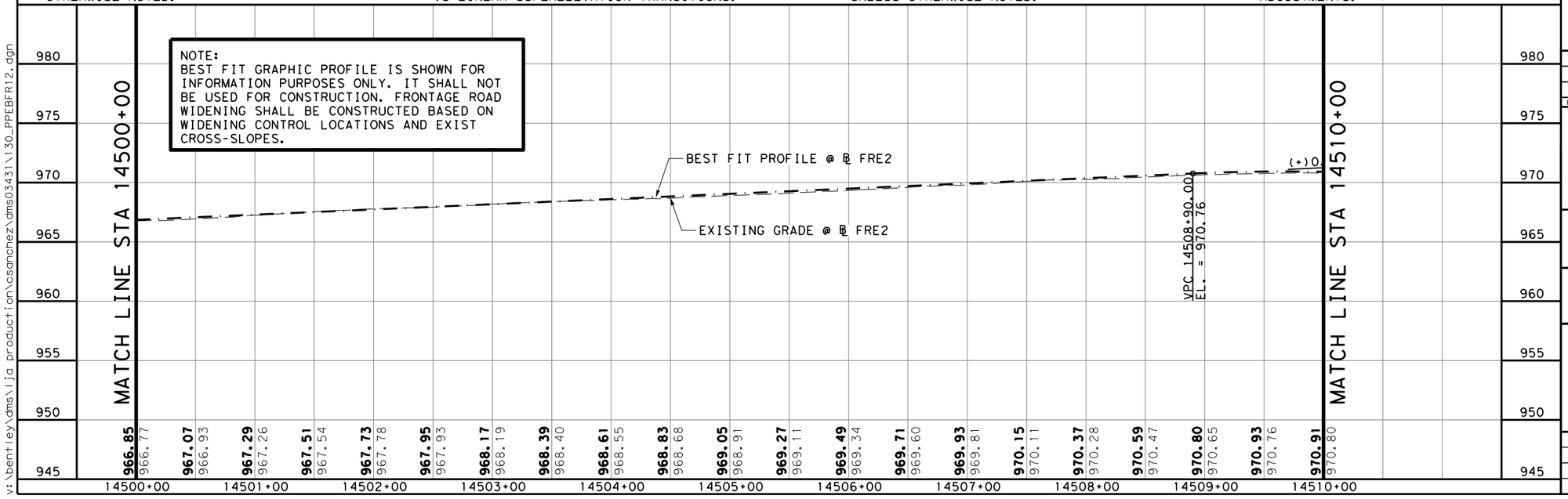
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	500
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5002
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	70
	0432	6001	RIPRAP (CONC)(4 IN)	CY	63
	0450	6023	RAIL (TY SSTR)	LF	501
	0531	6001	CONC SIDEWALKS (4")	SY	1031
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5002
*	3076	6066	TACK COAT	SY	5002
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5002
*	3085	6001	UNDERSEAL COURSE	SY	10004

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



SCALE: 1"=100' - HORZ
1"=10' - VERT

DESIGN
R. MATTHEW ESTES, P.E. — 2/28/2023
REVIEW AND APPROVAL
JAMES A. LUTZ, P.E. — 2/28/2023

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

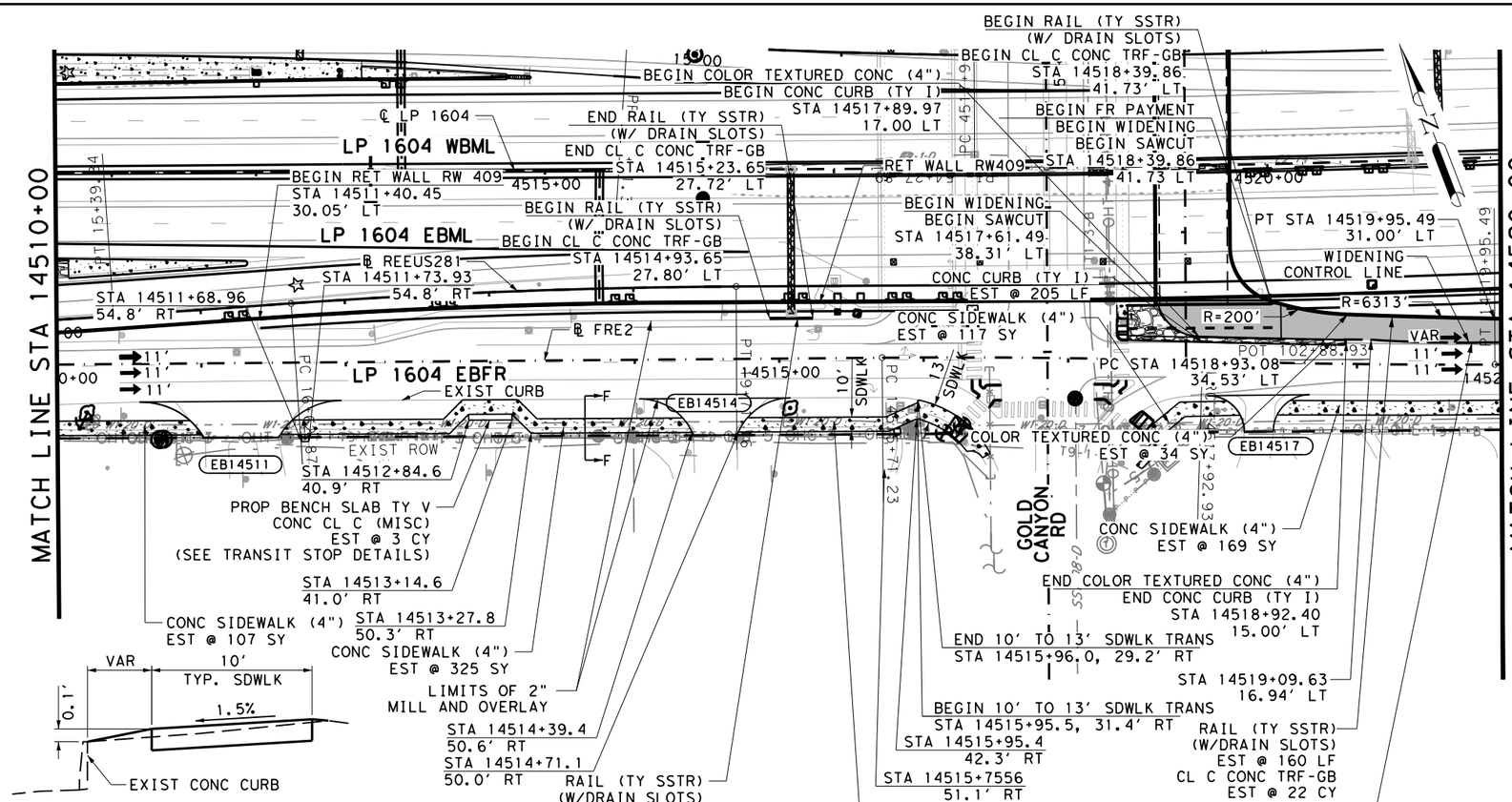
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14500+00 TO STA 14510+00

SHEET 12 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	853

4:12:45 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms0343\130_PPEBFR12.dgn



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
SI-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	530
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	516
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	620
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5709
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	22
	0420	6074	CL C CONC (MISC)	CY	3
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	160
	0528	6001	COLORED TEXTURED CONC (4")	SY	34
	0529	6001	CONC CURB (TY I)	LF	205
	0531	6001	CONC SIDEWALKS (4")	SY	886
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	516
*	3076	6023	D-GR HMA TY-C PG70-22	SY	6211
*	3076	6066	TACK COAT	SY	6211
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	6197
*	3085	6001	UNDERSEAL COURSE	SY	12409

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

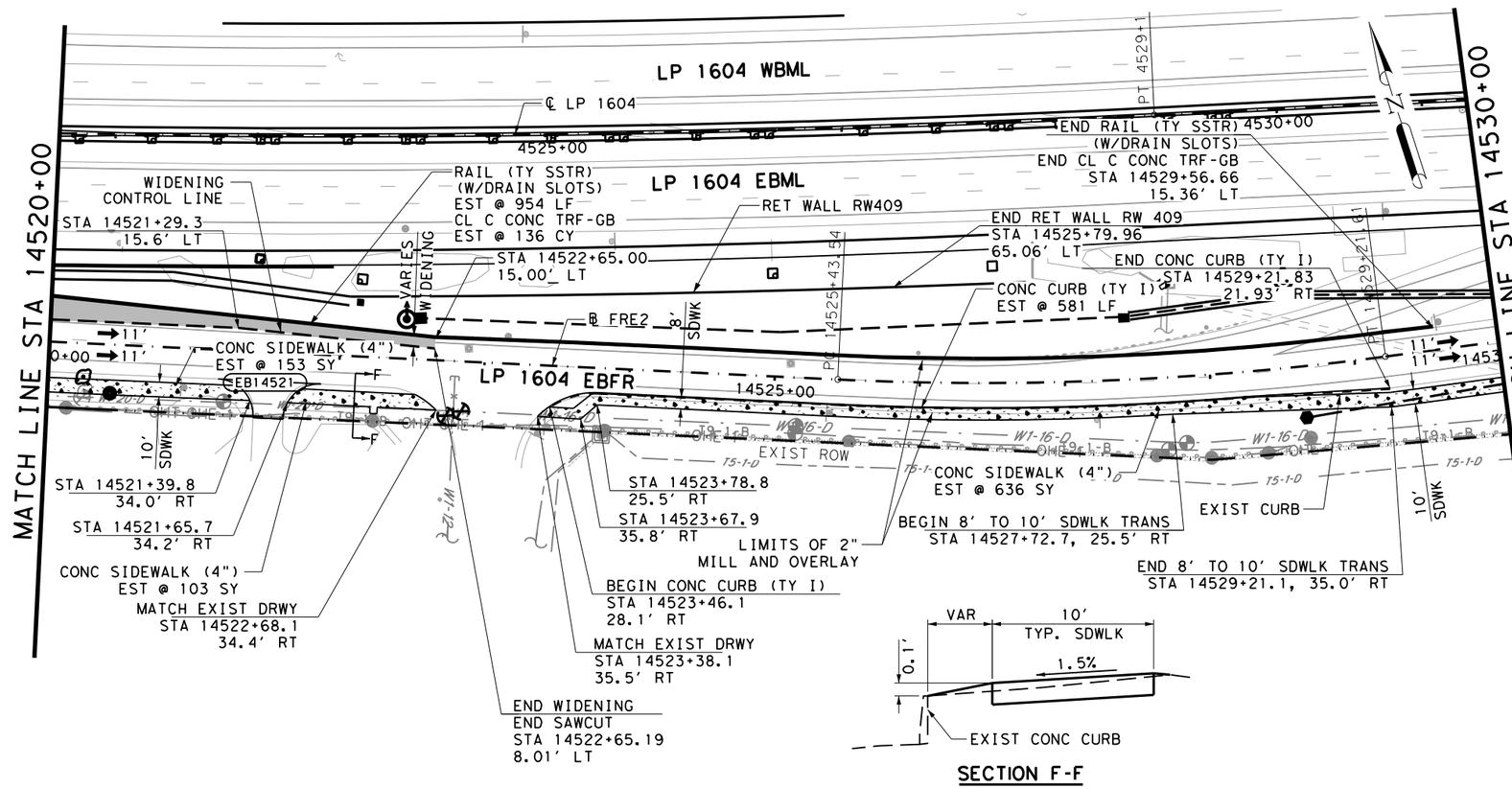
Texas Department of Transportation
©2023

LP 1604
EBFR
PLAN AND PROFILE
STA 14510+00 TO STA 14520+00

SHEET 13 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	854

4:13:27 PM 2/28/2023
v:\bentley\dms\ja production\csanchez\dms03431\130_PPEBFR13.dgn



SECTION F-F
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

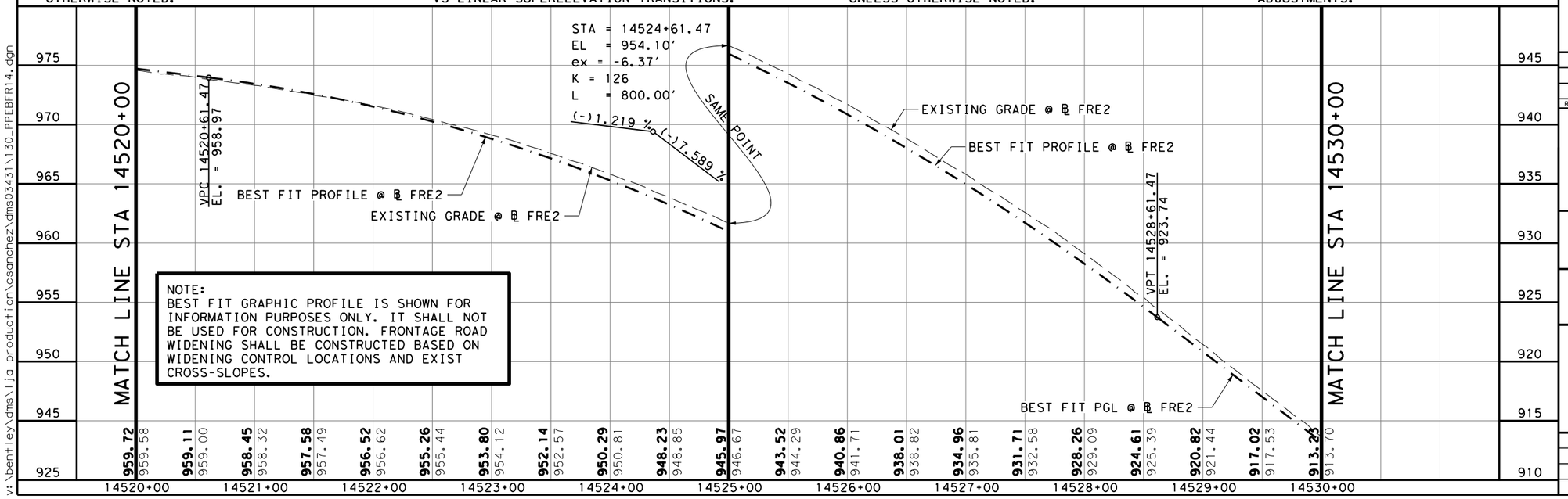
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	215
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	245
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8"	SY	429
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3936
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	134
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	954
	0529	6001	CONC CURB (TY I)	LF	581
	0531	6001	CONC SIDEWALKS (4")	SY	892
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	245
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4286
*	3076	6066	TACK COAT	SY	4286
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4286
*	3085	6001	UNDERSEAL COURSE	SY	8573

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

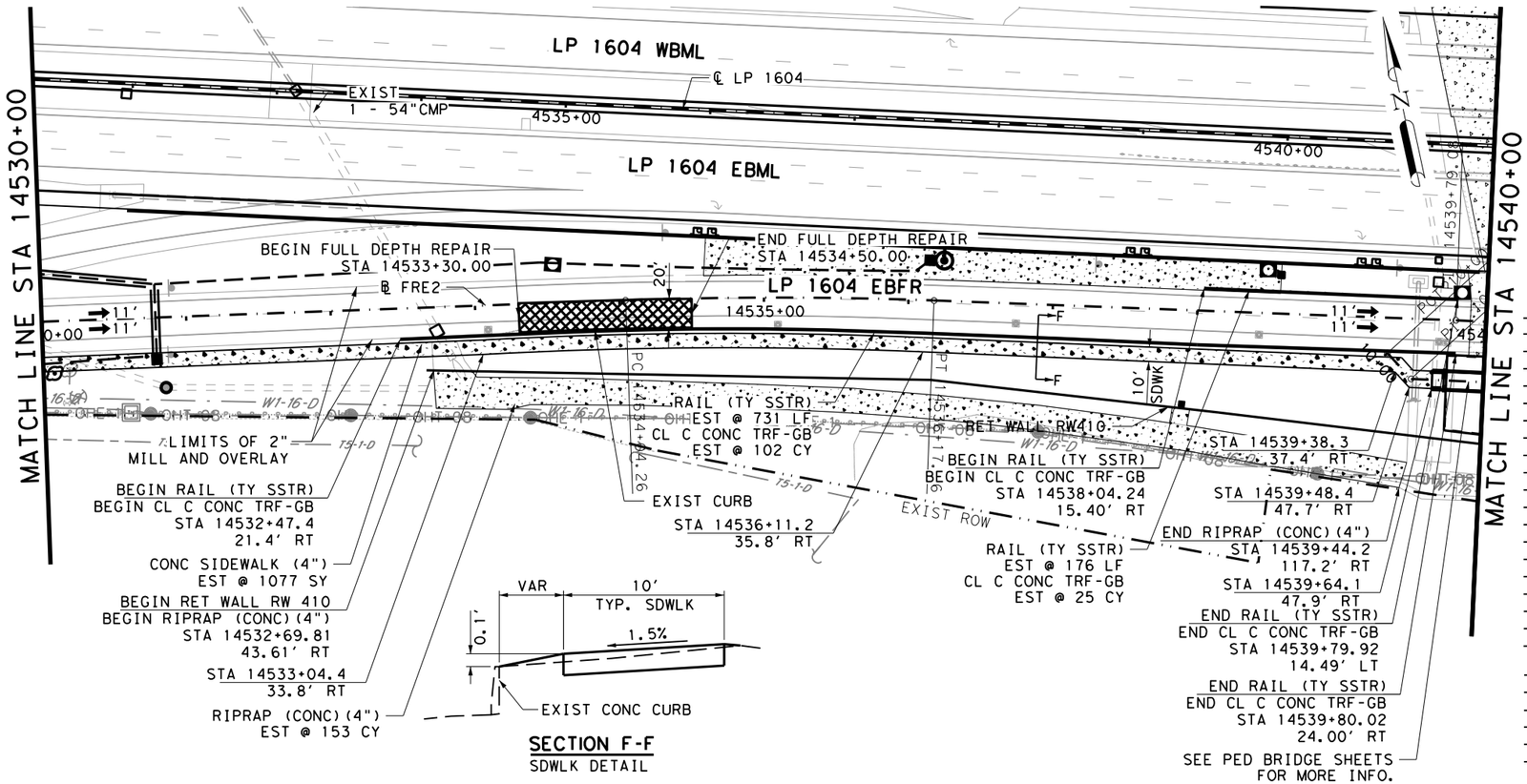
LJA Engineering, Inc.
FRN-F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14520+00 TO STA 14530+00

SHEET 14 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	855

4:14:13 PM 2/28/2023
v:\bentley\dms\lja production\sanchez\dms03431\130_PPEBFR14.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

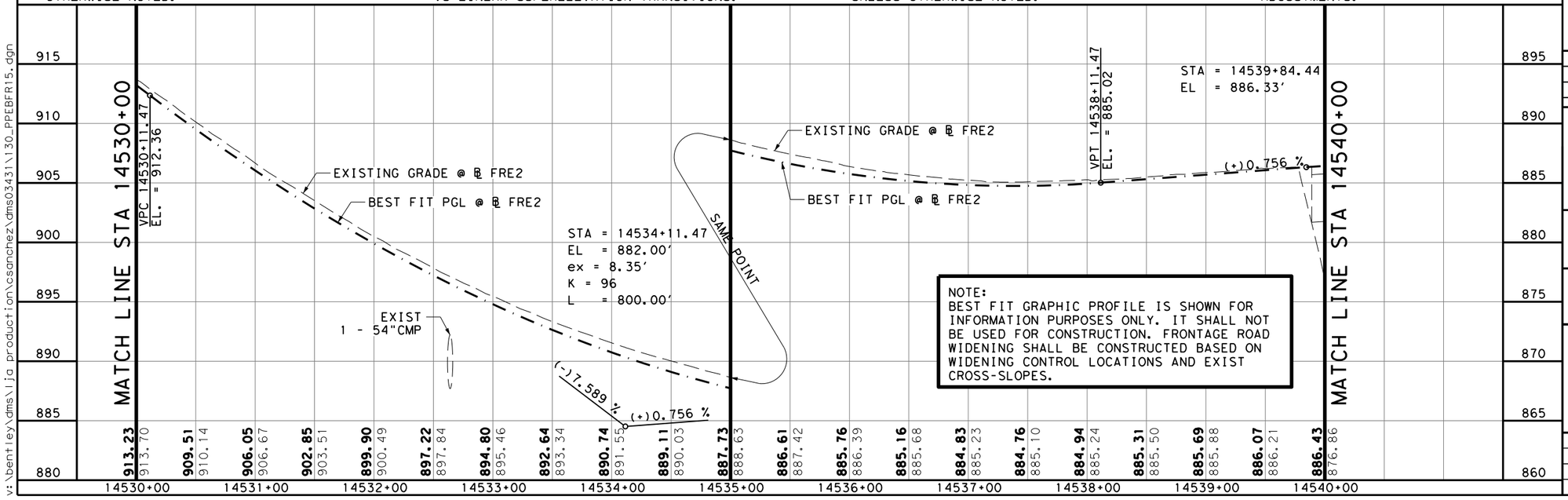
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	278
*	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	402
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3754
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	127
	0432	6001	RIPRAP (CONC)(4 IN)	CY	153
	0450	6023	RAIL (TY SSTR)	LF	907
	0531	6001	CONC SIDEWALKS (4")	SY	1077
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	278
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4025
*	3076	6066	TACK COAT	SY	4025
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4018
*	3085	6001	UNDERSEAL COURSE	SY	8044

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

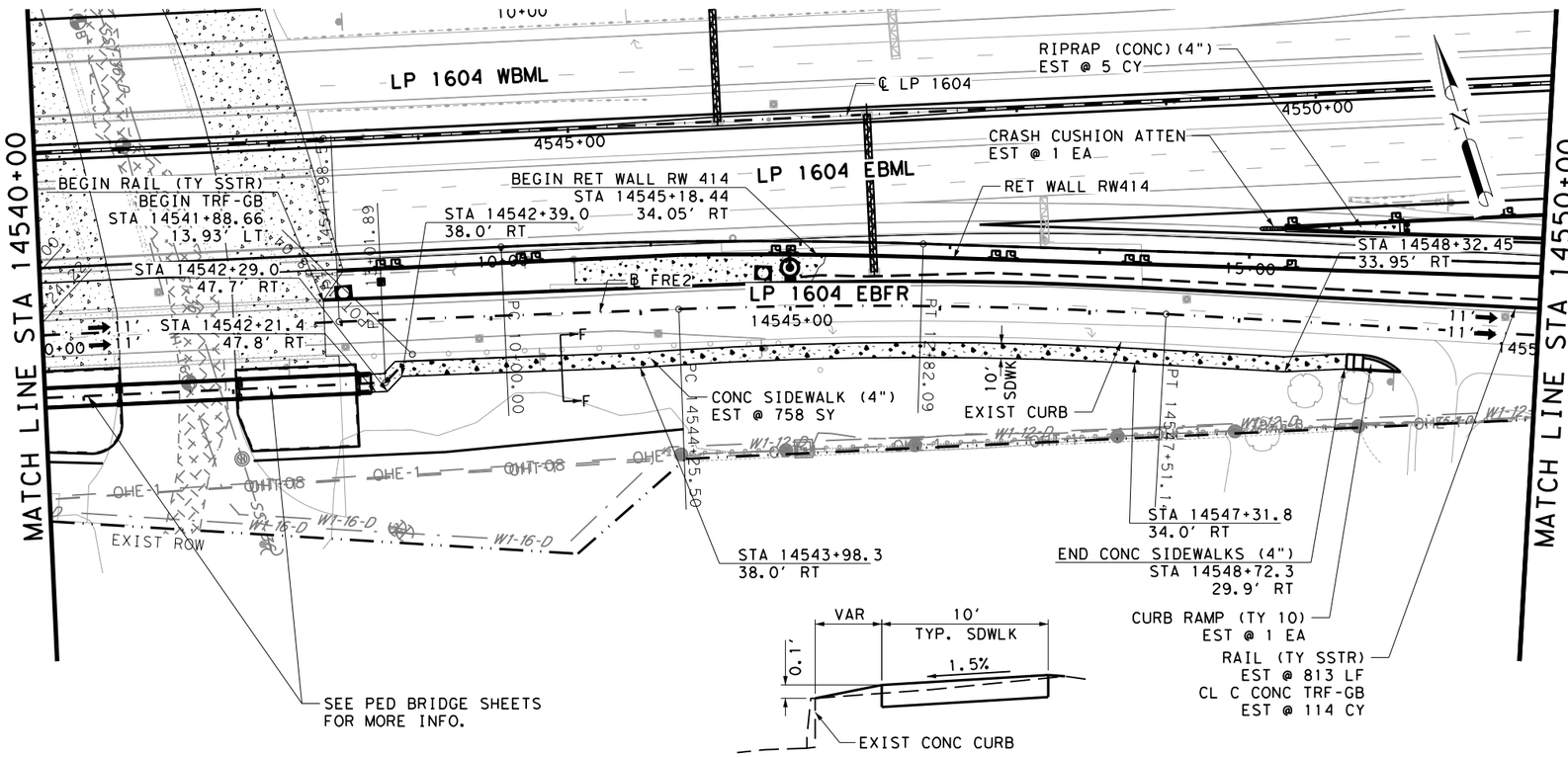
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14530+00 TO STA 14540+00

SHEET 15 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	856

4:14:54 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR15.dgn



SECTION F-F
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

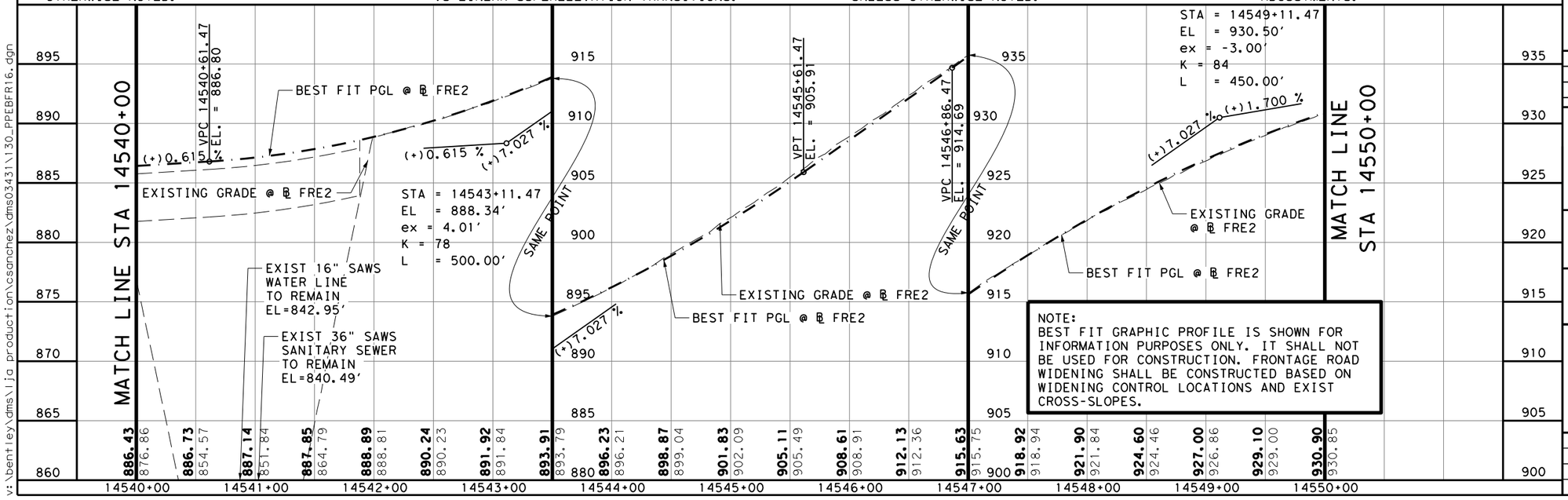
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	327
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3275
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	114
	0450	6023	RAIL (TY SSTR)	LF	813
	0531	6001	CONC SIDEWALKS (4")	SY	758
	0531	6013	CURB RAMPS (TY 10)	EA	1
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6023	D-GR HMA TY-C PG70-22	SY	3275
*	3076	6066	TACK COAT	SY	3275
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3275
*	3085	6001	UNDERSEAL COURSE	SY	6549

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

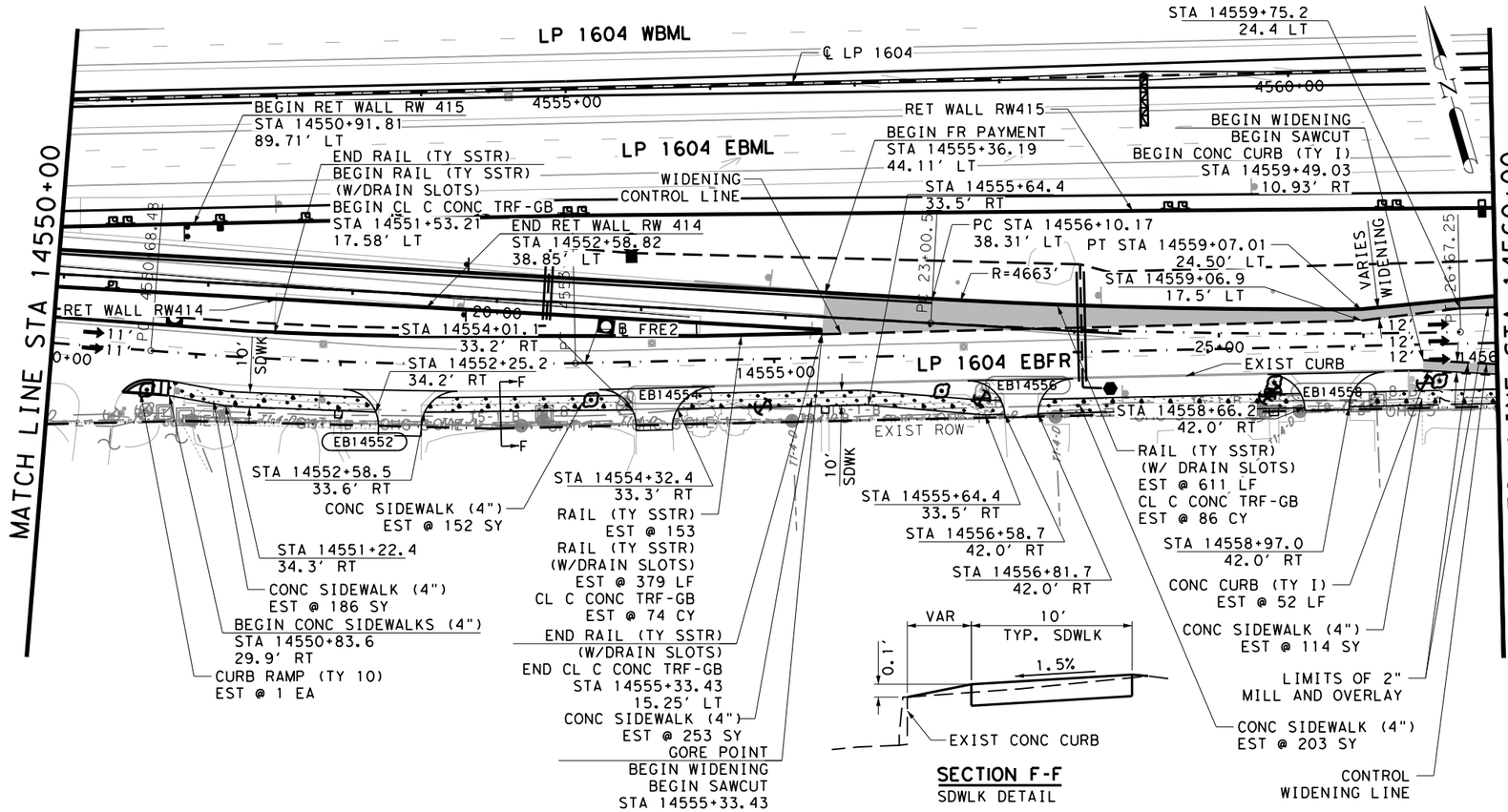
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14540+00 TO STA 14550+00

SHEET 16 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	857

v:\bentley\dms\lja production\csanchez\dms0343\130_PPEBFR16.dgn
2/28/2023
4:15:34 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

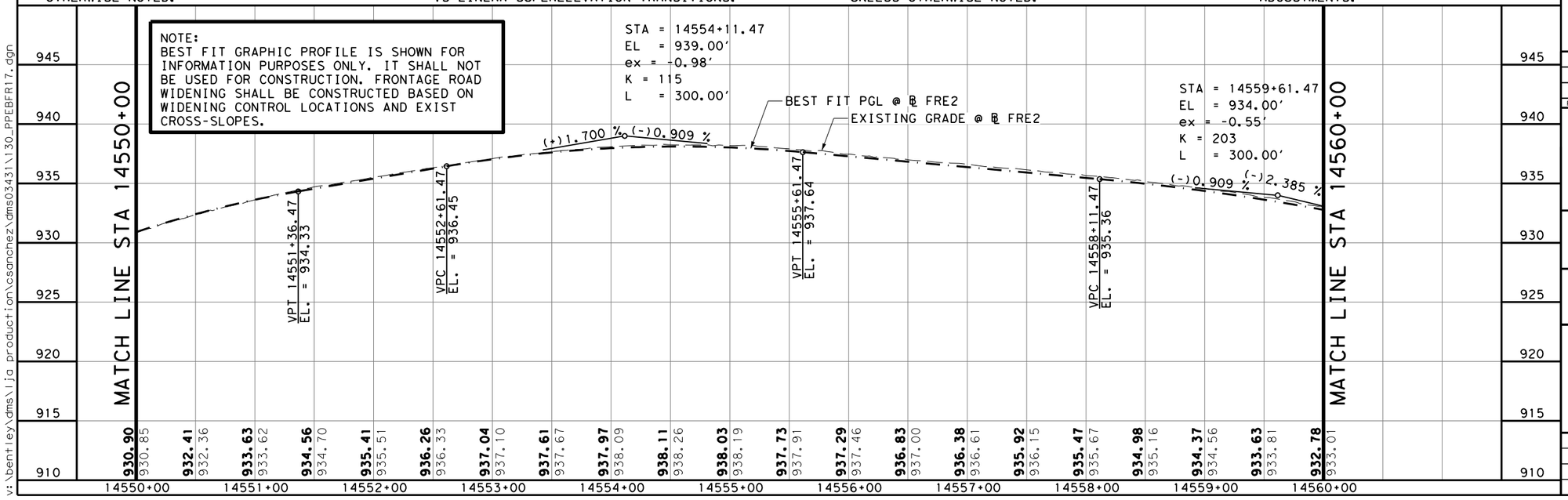
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	674
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	695
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	446
0354	6045	PLANE ASPH CONC PAV (2")	SY	3717
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	160
0450	6023	RAIL (TY SSTR)	LF	153
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	990
0529	6001	CONC CURB (TY I)	LF	52
0531	6001	CONC SIDEWALKS (4")	SY	908
0531	6013	CURB RAMPS (TY 10)	EA	1
3076	6001	D-GR HMA TY-B PG 64-22	SY	695
3076	6023	D-GR HMA TY-C PG70-22	SY	4461
3076	6066	TACK COAT	SY	4461
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4458
3085	6001	UNDERSEAL COURSE	SY	8919

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

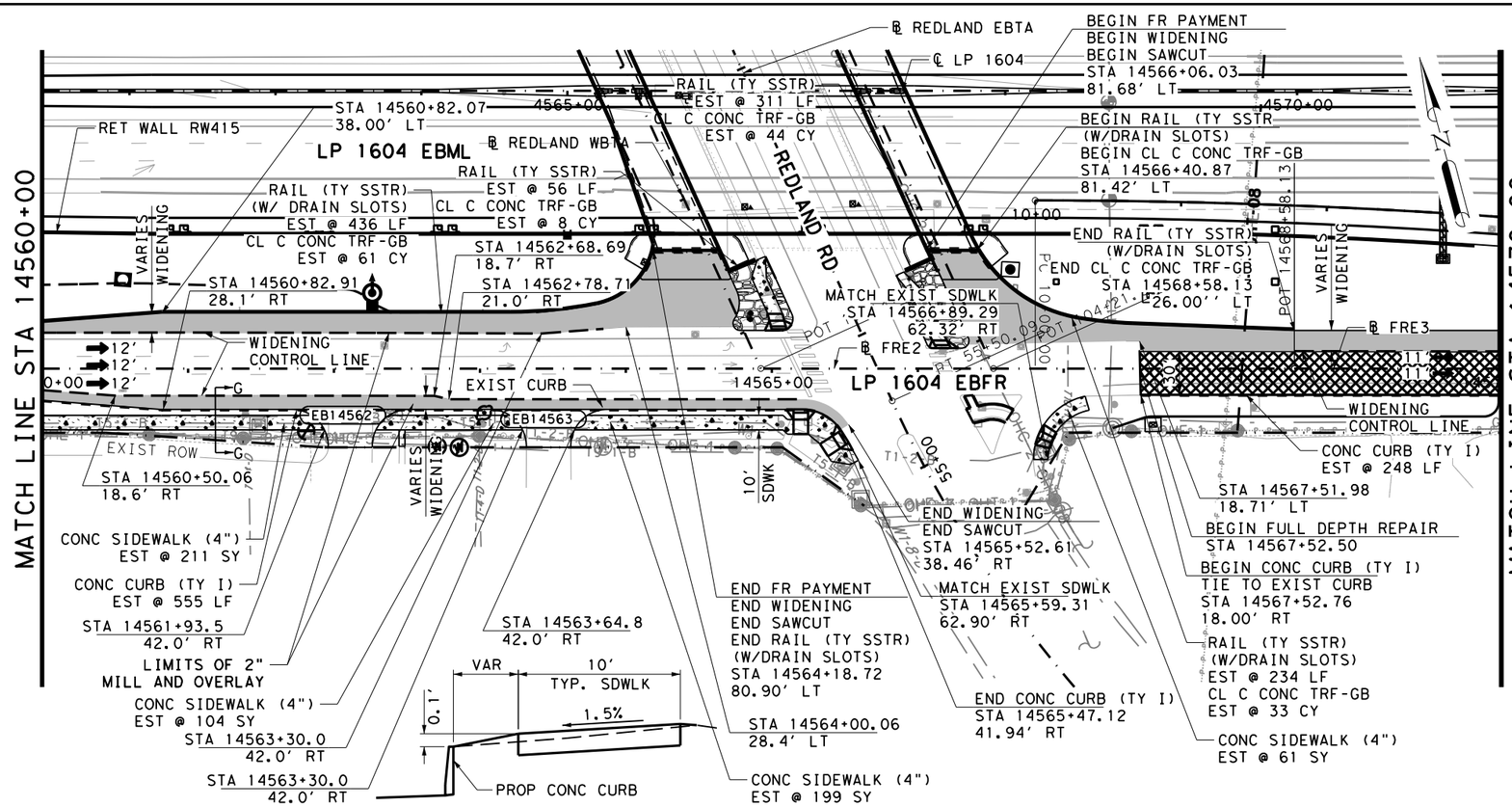
LJA Engineering, Inc.
FRN - F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14550+00 TO STA 14560+00

SHEET 17 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	858

4:16:16 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR17.dgn



SECTION G-G
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

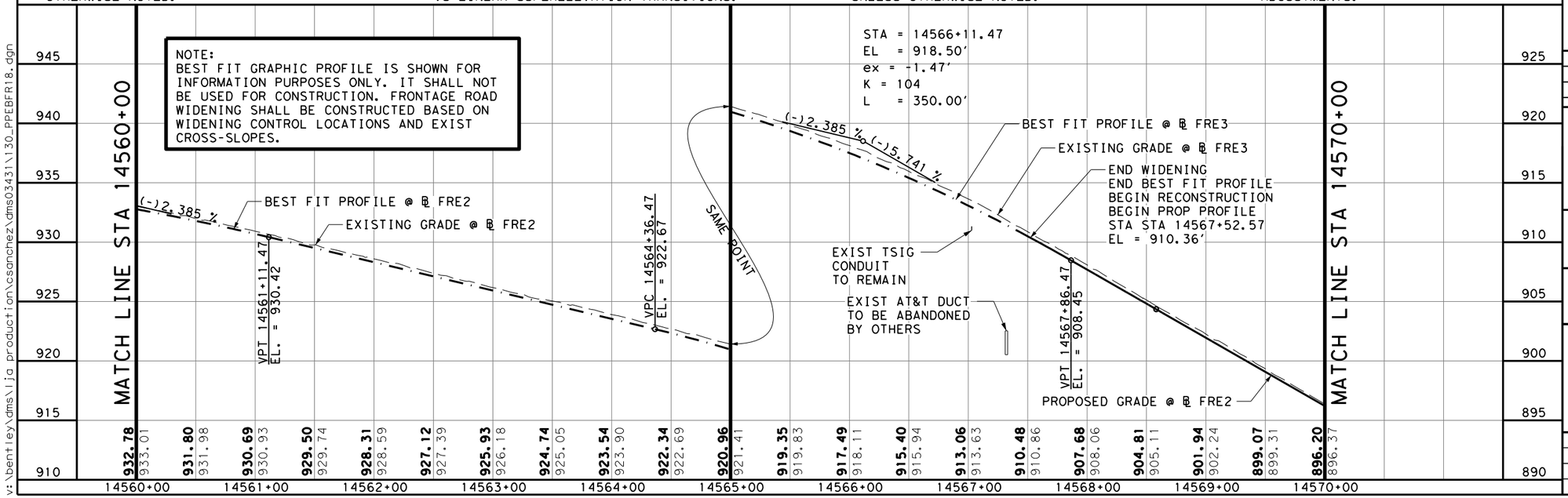
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	2500
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	3364
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	773
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3501
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	157
	0450	6023	RAIL (TY SSTR)	LF	367
	0450	6034	RAIL (TY C402)	LF	25
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	670
	0529	6001	CONC CURB (TY I)	LF	802
	0531	6001	CONC SIDEWALKS (4")	SY	575
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	3364
*	3076	6023	D-GR HMA TY-C PG70-22	SY	7934
*	3076	6066	TACK COAT	SY	7934
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	7734
*	3085	6001	UNDERSEAL COURSE	SY	15668

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN
R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL
JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

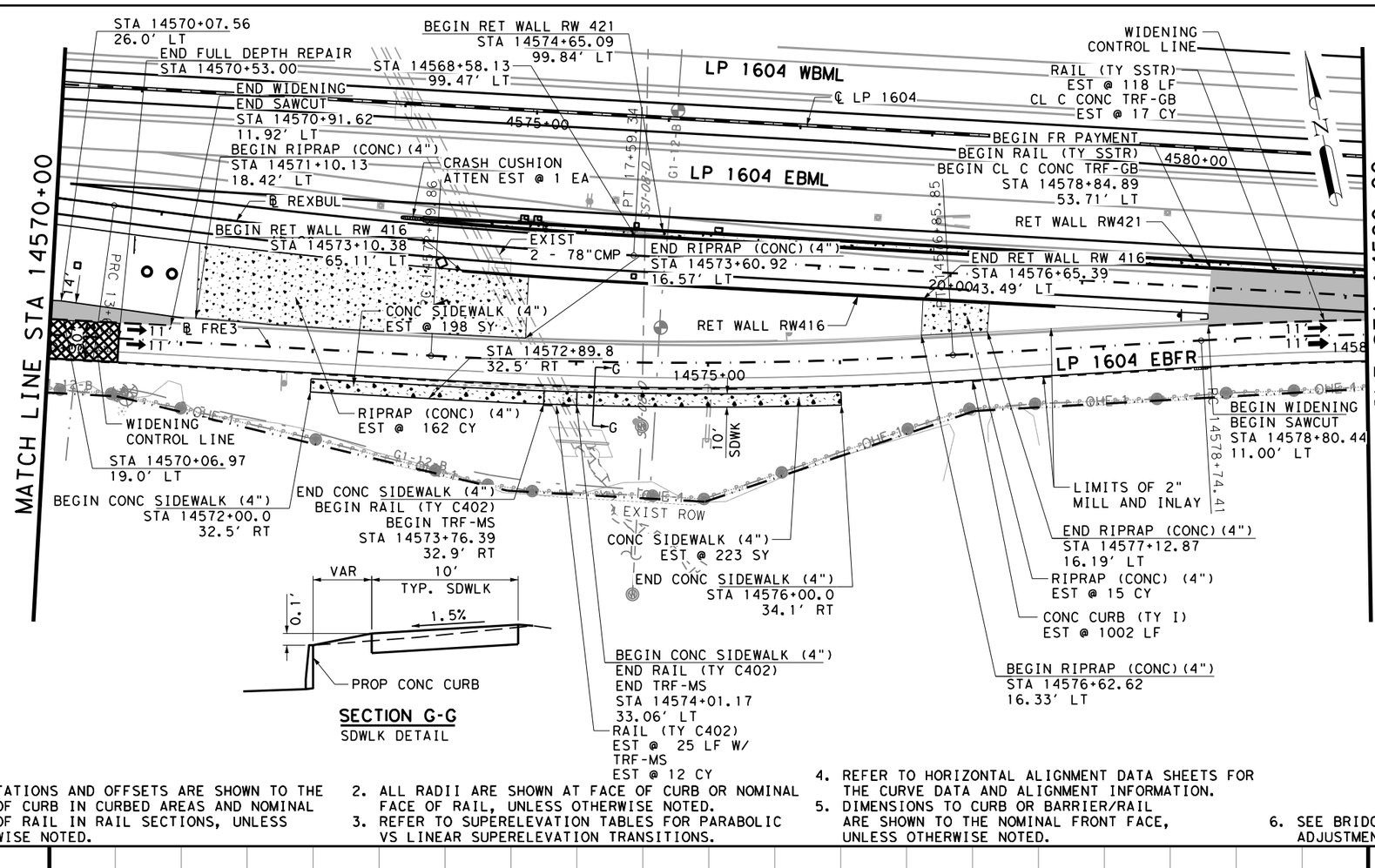
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800
LJA Engineering, Inc. FRN-F-1386

LP 1604
EBFR
PLAN AND PROFILE
STA 14560+00 TO STA 14570+00

SHEET 18 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	859

4:16:56 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms0343\130_PPEBFR18.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	579
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	757
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	451
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3753
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	17
	0432	6001	RIPRAP (CONC) (4 IN)	CY	177
	0450	6023	RAIL (TY SSTR)	LF	118
	0529	6001	CONC CURB (TY I)	LF	1002
	0531	6001	CONC SIDEWALKS (4")	SY	421
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	757
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4443
*	3076	6066	TACK COAT	SY	4443
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4510
*	3085	6001	UNDERSEAL COURSE	SY	8953

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

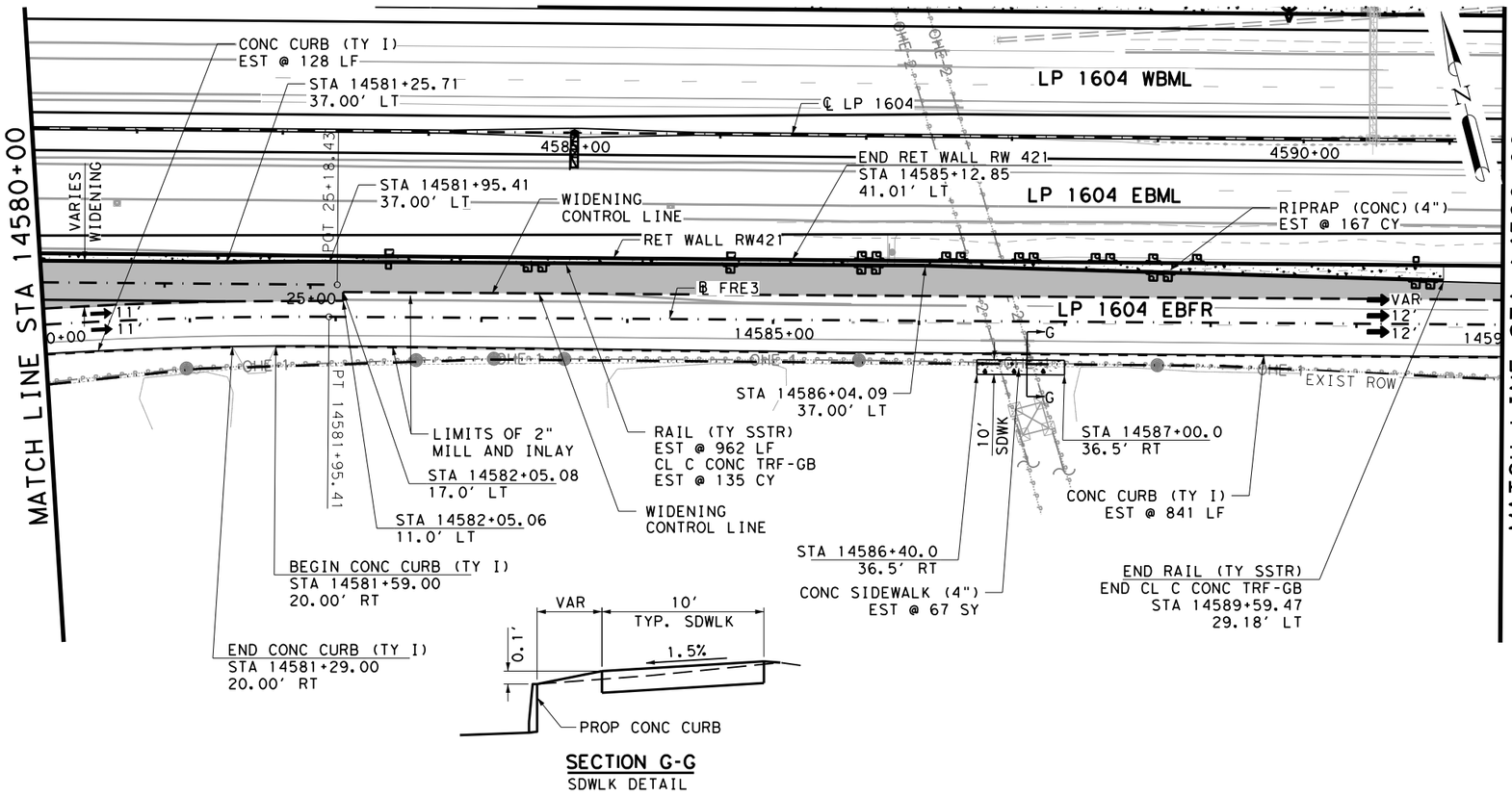
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14570+00 TO STA 14580+00

SHEET 19 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	860

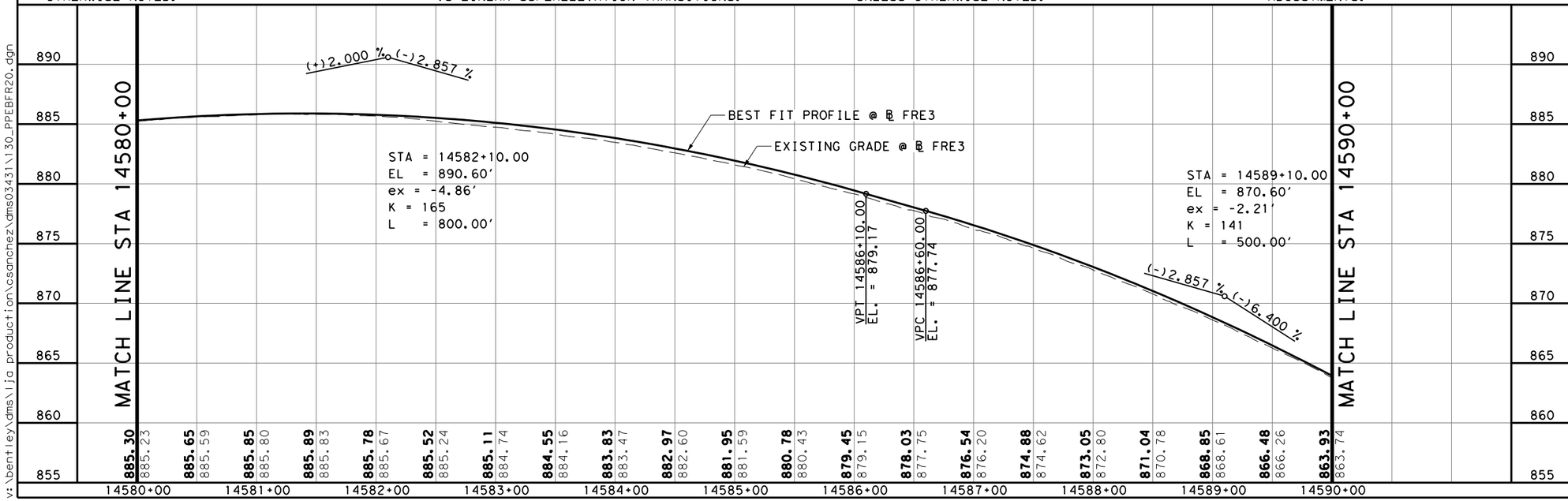
2/28/2023
4:17:36 PM
v:\bentley\dms\ja production\csanchez\dms03431\130_PPEBFR19.dgn



SECTION G-G
SDWLK DETAIL

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	2027
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	2111
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	596
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3742
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	135
	0450	6023	RAIL (TY SSTR)	LF	962
	0528	6001	COLORED TEXTURED CONC (4")	SY	94
	0529	6001	CONC CURB (TY I)	LF	917
	0531	6001	CONC SIDEWALKS (4")	SY	67
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	2111
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5964
*	3076	6066	TACK COAT	SY	5964
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5964
*	3085	6001	UNDERSEAL COURSE	SY	11929

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 3/1/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/1/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

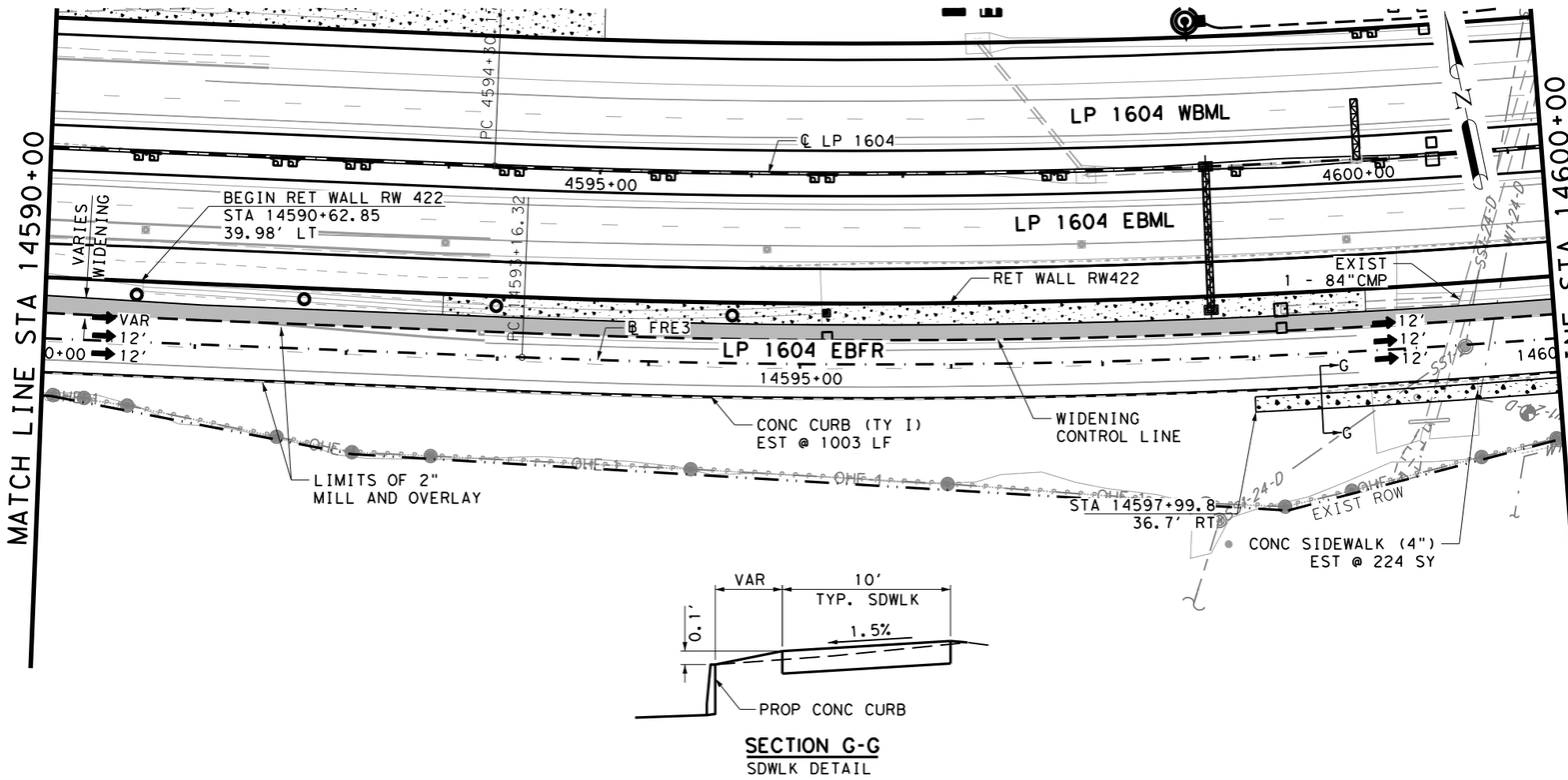
Texas Department of Transportation
©2023

LP 1604
EBFR
PLAN AND PROFILE
STA 14580+00 TO STA 14590+00

SHEET 20 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	861

9:08:55 AM 3/1/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR20.dgn



SECTION G-G
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

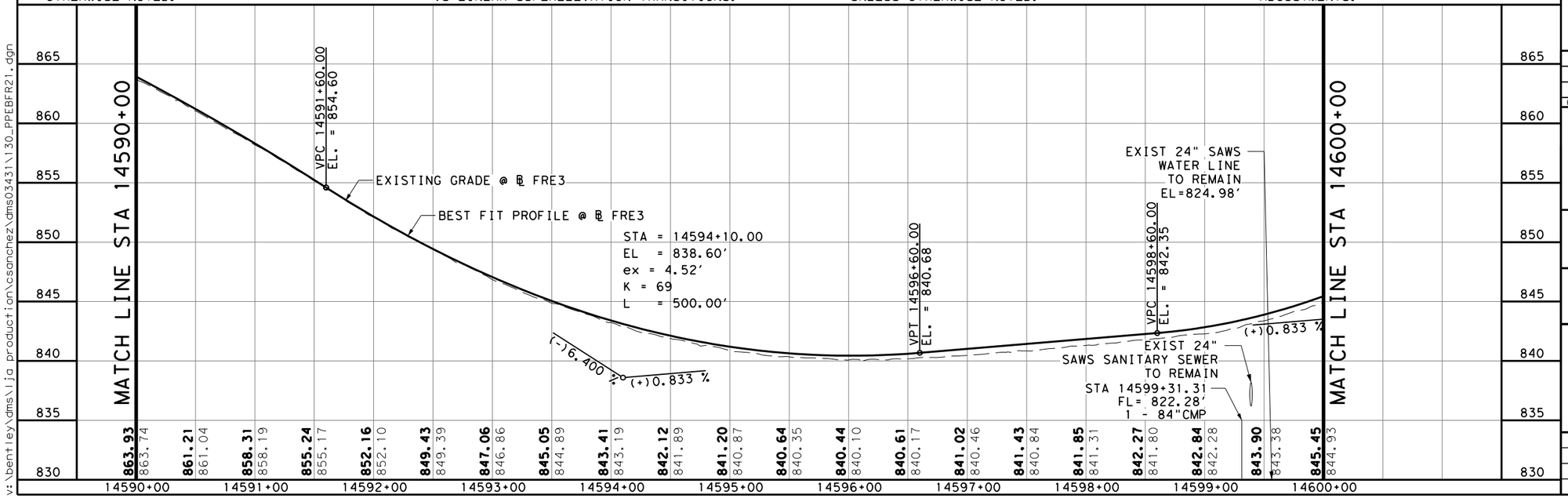
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	1116
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1117
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8"	SY	522
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4095
	0529	6001	CONC CURB (TY I)	LF	1003
	0531	6001	CONC SIDEWALKS (4")	SY	224
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1117
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5273
*	3076	6066	TACK COAT	SY	5273
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5218
*	3085	6001	UNDERSEAL COURSE	SY	10491

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

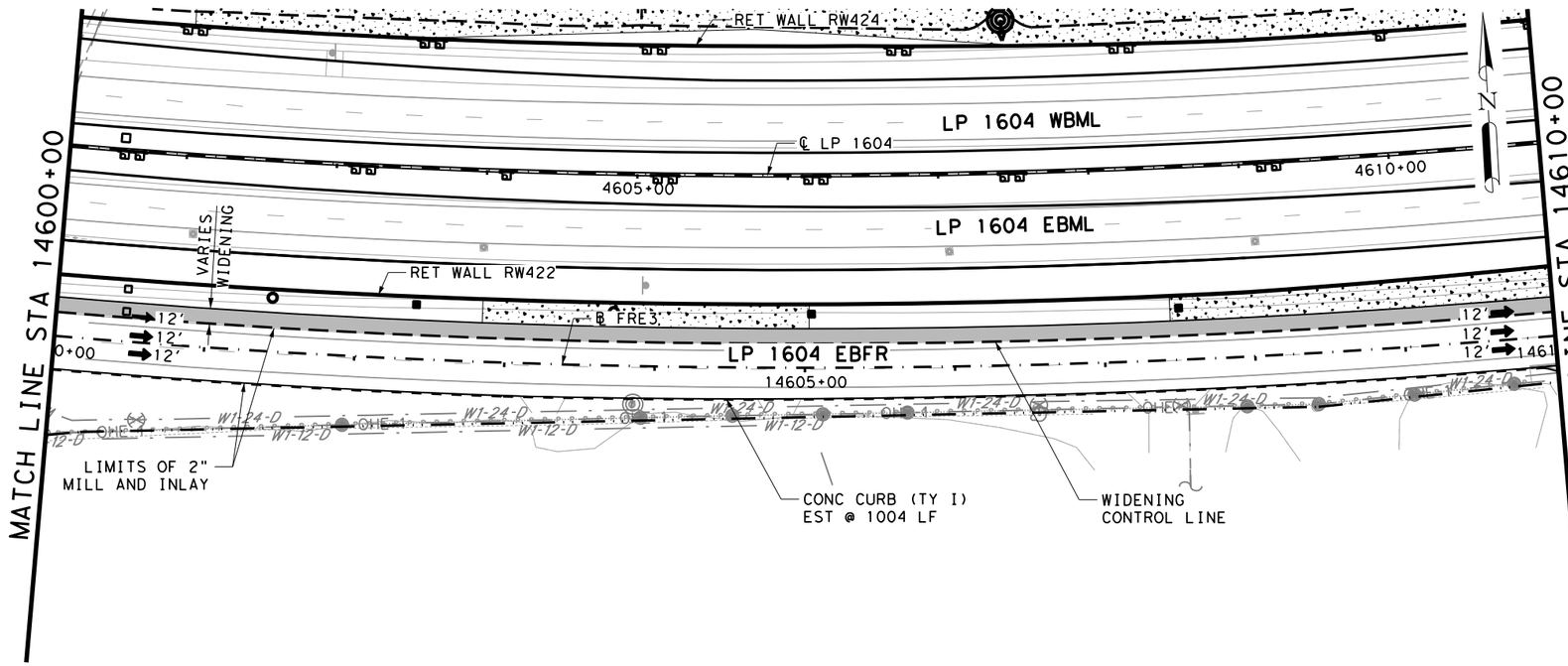
Texas Department of Transportation
©2023

LP 1604
EBFR
PLAN AND PROFILE
STA 14590+00 TO STA 14600+00

SHEET 21 OF 24

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	862

4:18:54 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l30_PPEBFR21.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

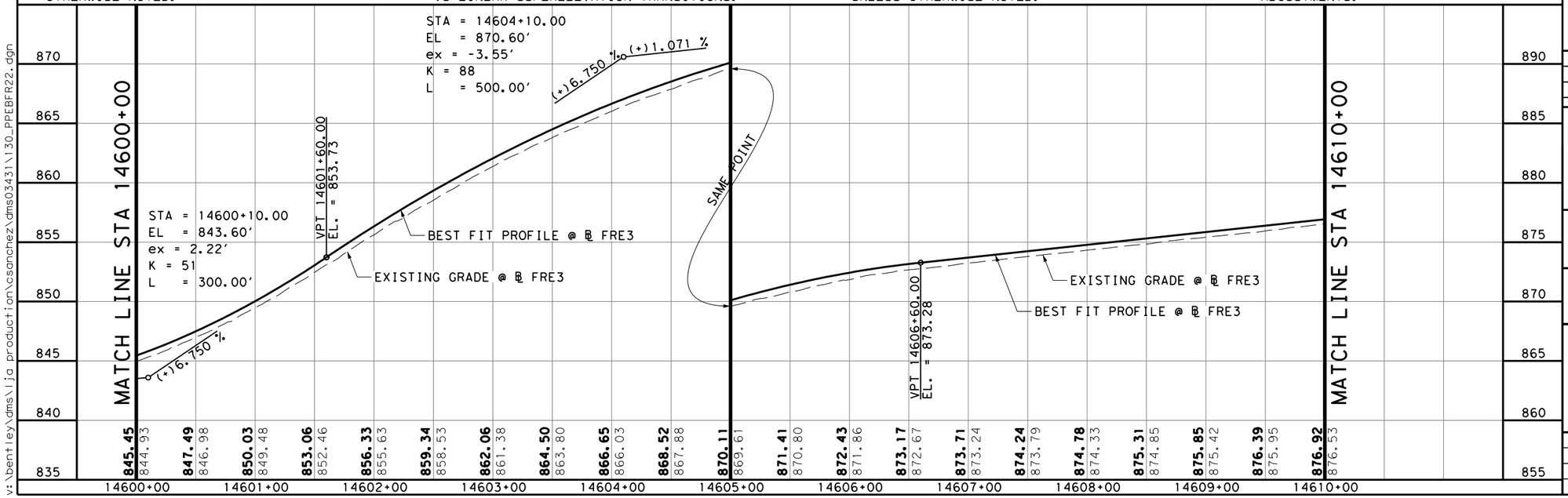
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	1016
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1072
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	523
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4158
	0529	6001	CONC CURB (TY I)	LF	1004
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1072
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5285
*	3076	6066	TACK COAT	SY	5285
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5230
*	3085	6001	UNDERSEAL COURSE	SY	10515

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

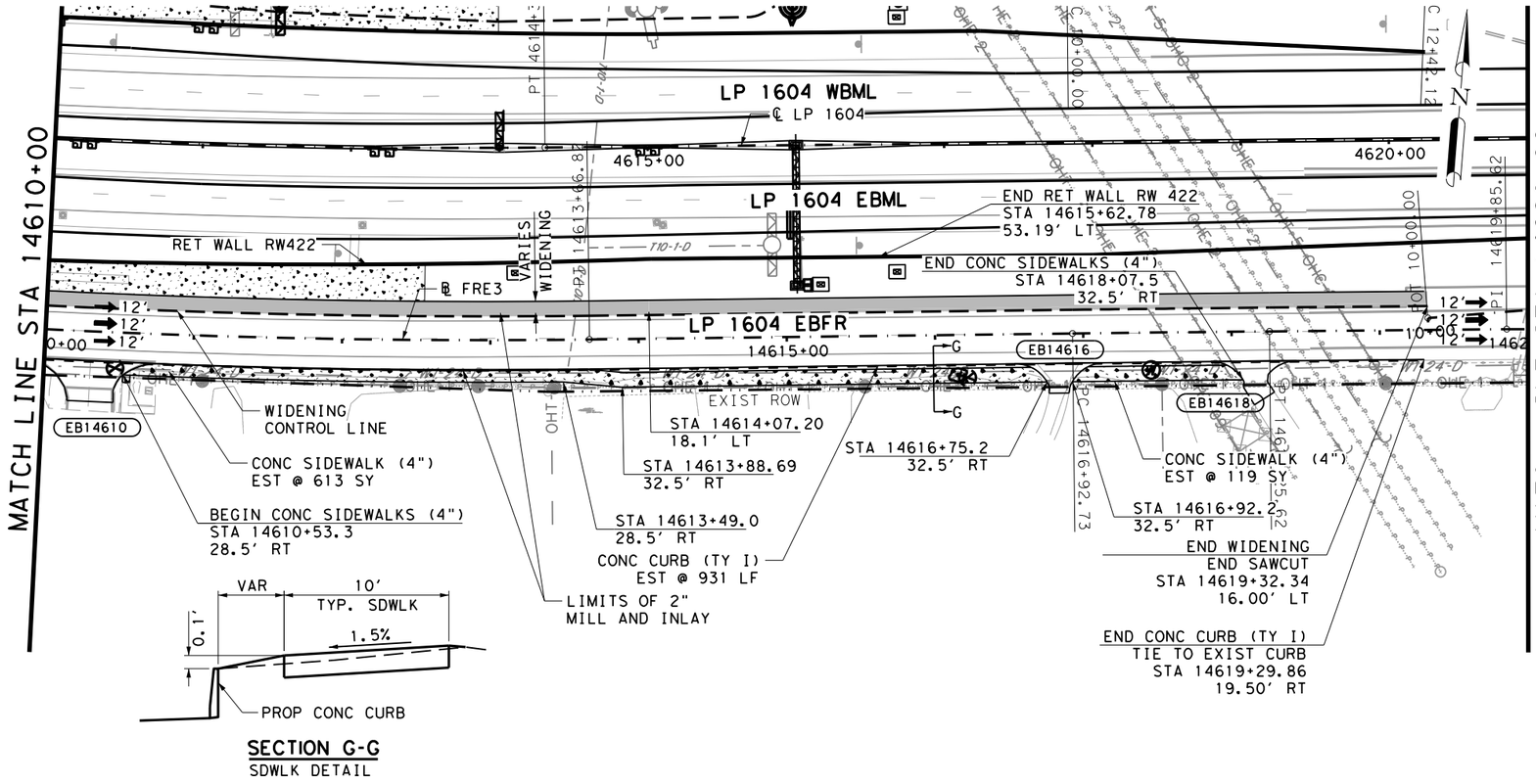
Texas Department of Transportation ©2023

LP 1604
EBFR
PLAN AND PROFILE
STA 14600+00 TO STA 14610+00

SHEET 22 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	863

4:19:34 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR22.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

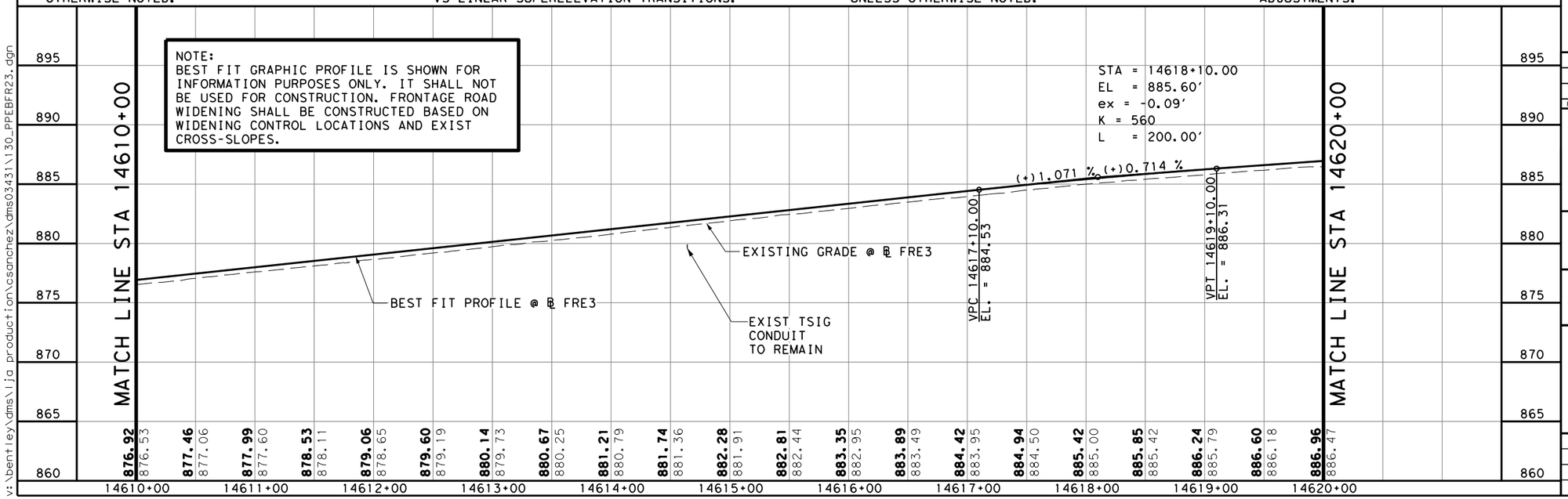
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	774
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	826
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	499
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4168
	0529	6001	CONC CURB (TY I)	LF	931
	0531	6001	CONC SIDEWALKS (4")	SY	732
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	826
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5045
*	3076	6066	TACK COAT	SY	5045
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4993
*	3085	6001	UNDERSEAL COURSE	SY	10038

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

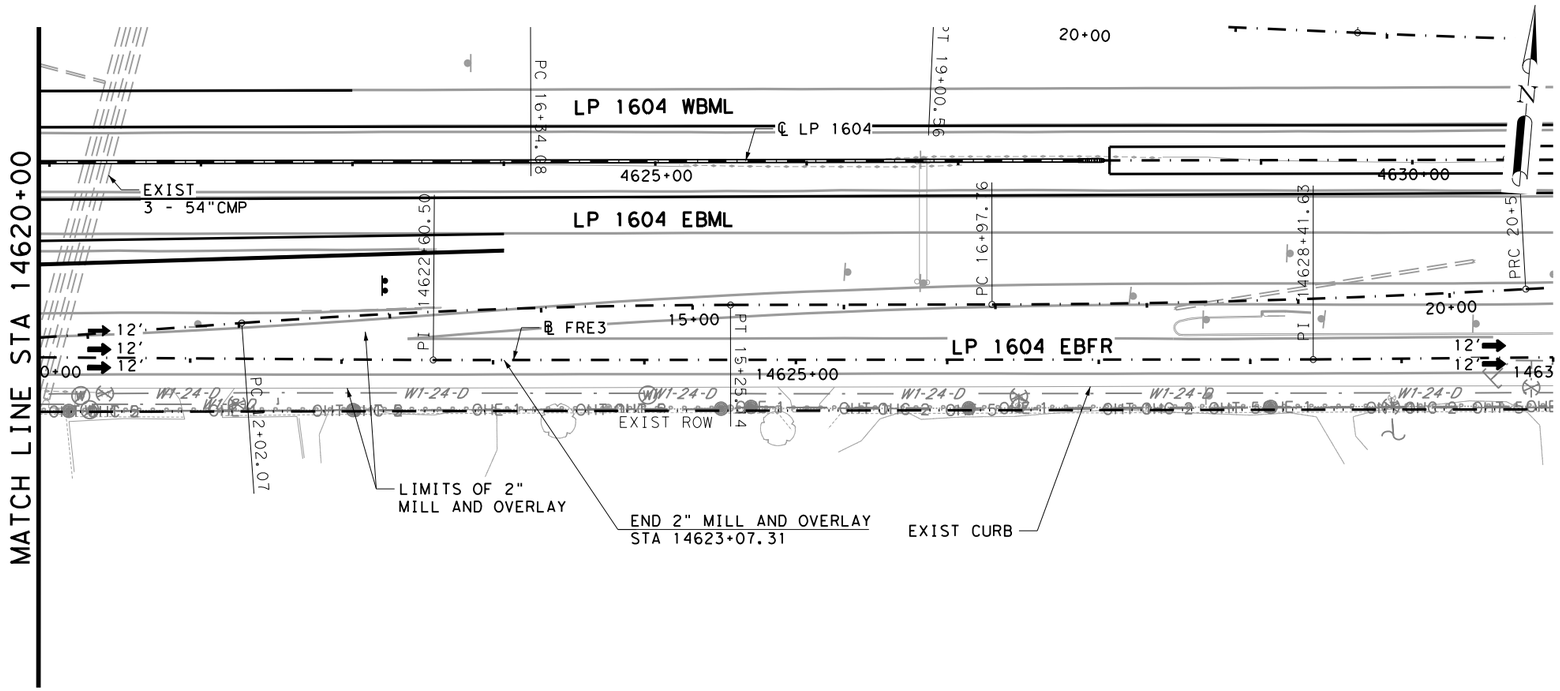
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14610+00 TO STA 14620+00

SHEET 23 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	864

4:20:17 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR23.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4") PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

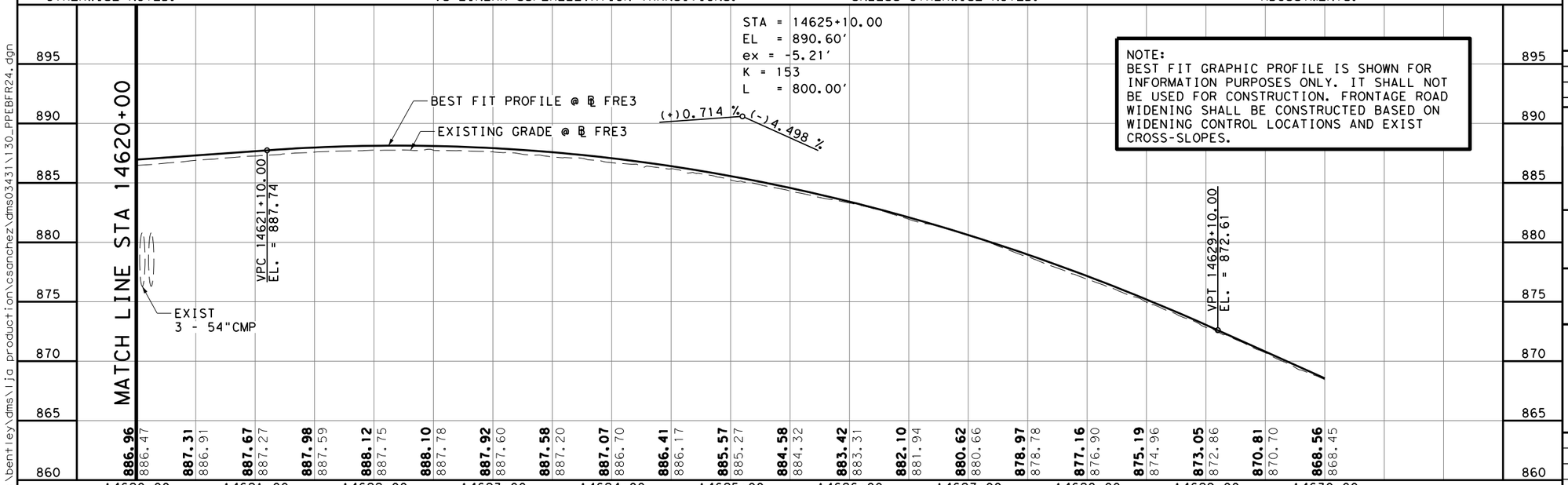
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	127
	0354	6045	PLANE ASPH CONC PAV (2")	SY	1274
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	1274
*	3085	6001	UNDERSEAL COURSE	SY	1274

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

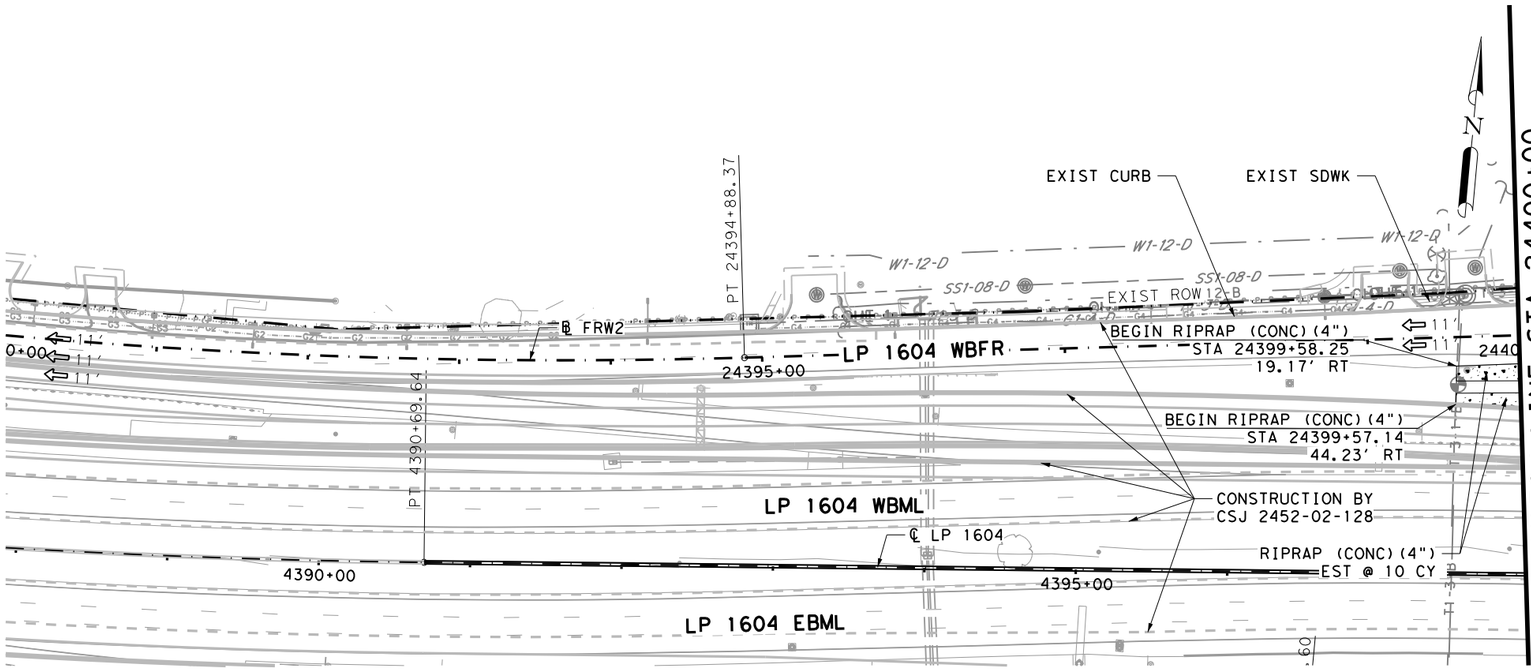
©2023 Texas Department of Transportation

LP 1604
EBFR
PLAN AND PROFILE
STA 14620+00 TO END PROJECT

SHEET 24 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	865

4:20:59 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPEBFR24.dgn



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0432	6001	RIPRAP (CONC)(4 IN)	CY	10

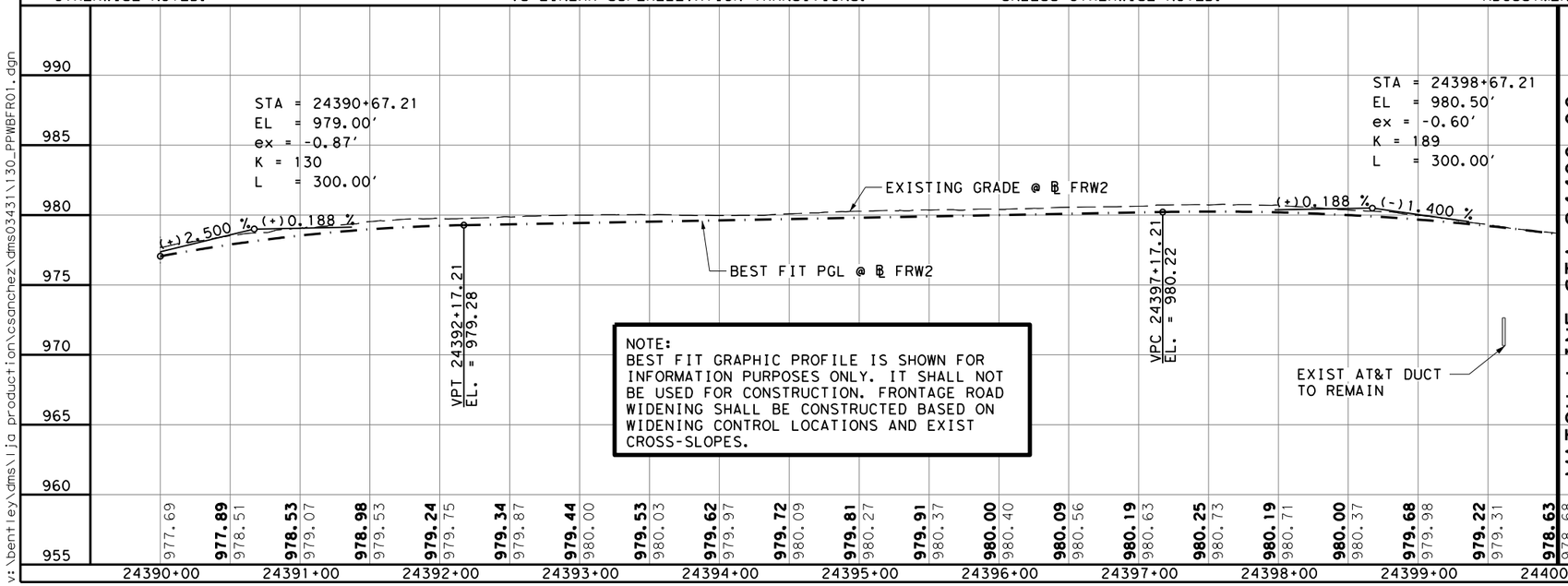
LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

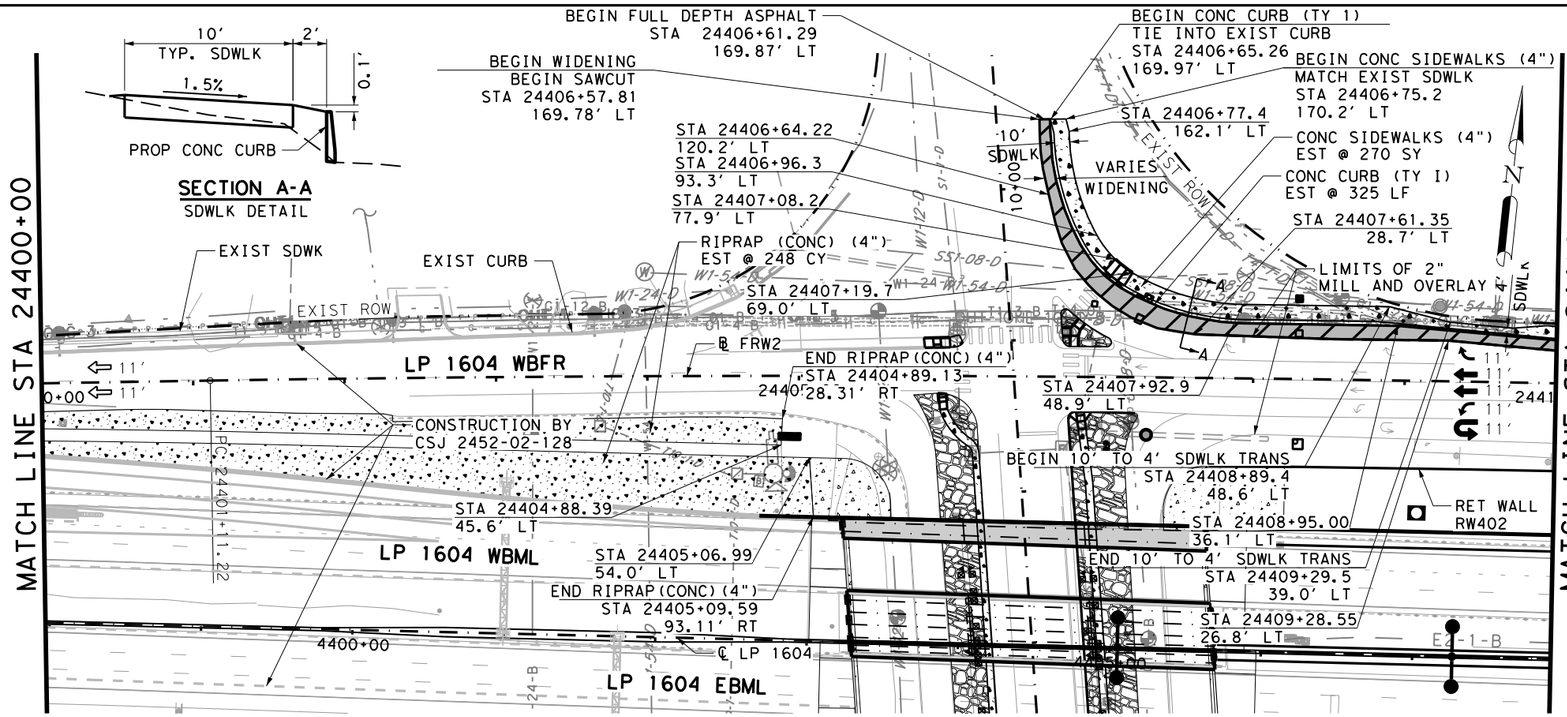
©2023 Texas Department of Transportation

LP 1604
WBFR
PLAN AND PROFILE
BEGIN PROJECT TO STA 24400+00

SHEET 1 OF 24

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	866

4:21:38 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR01.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

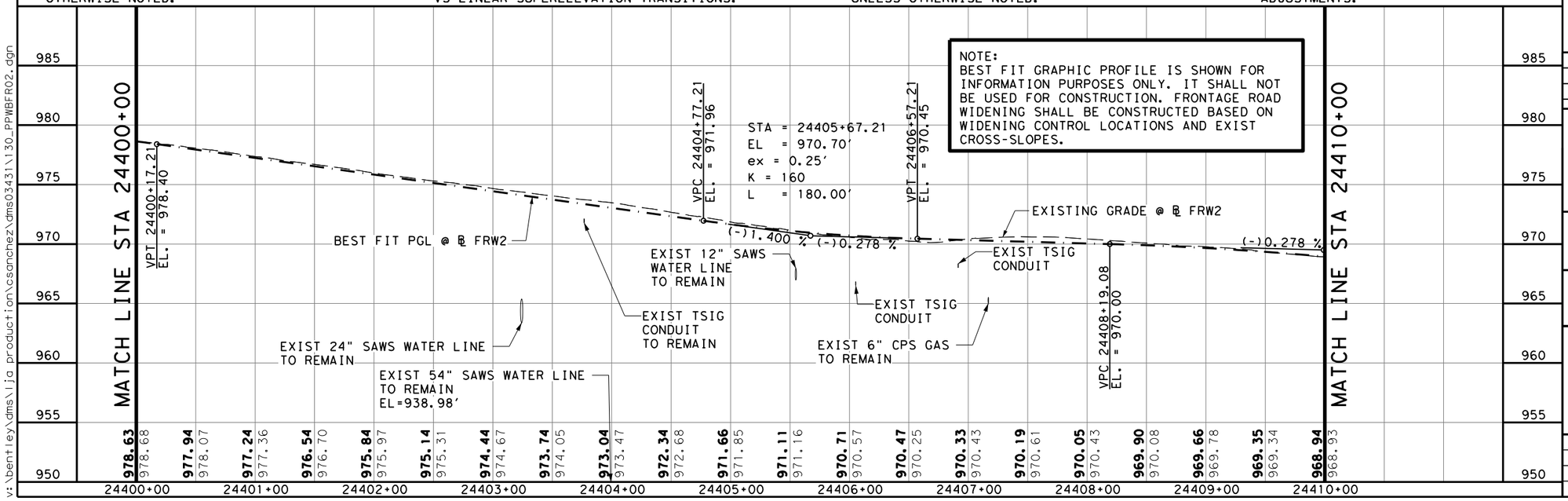
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	457
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	481
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	661
	0354	6045	PLANE ASPH CONC PAV (2")	SY	6177
	0432	6001	RIPRAP (CONC)(4 IN)	CY	248
	0529	6001	CONC CURB (TY I)	LF	325
	0531	6001	CONC SIDEWALKS (4")	SY	270
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	481
*	3076	6023	D-GR HMA TY-C PG70-22	SY	6682
*	3076	6066	TACK COAT	SY	6682
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	6612
*	3085	6001	UNDERSEAL COURSE	SY	13294

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

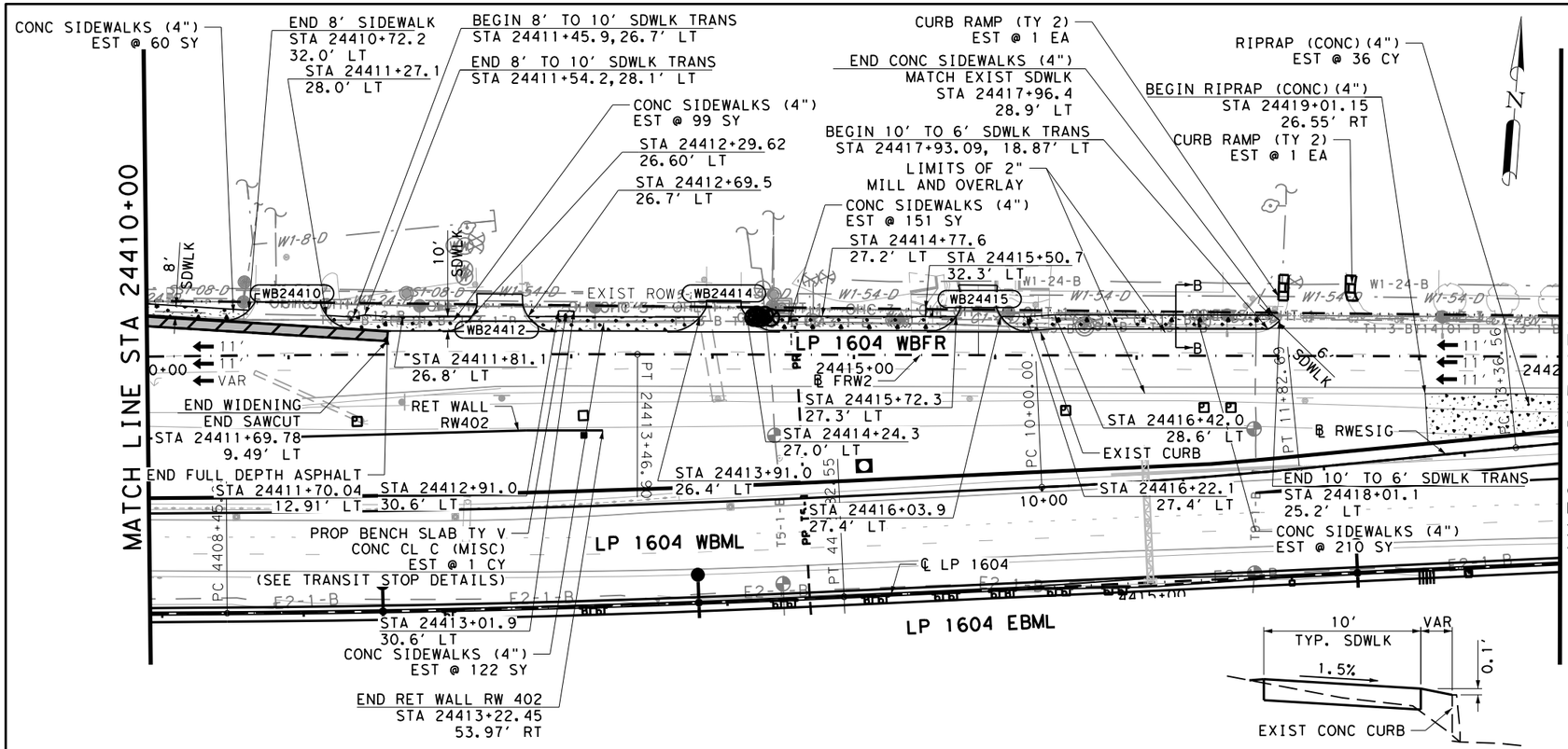
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24400+00 TO STA 24410+00

SHEET 2 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	867

4:22:17 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR02.dgn



SECTION B-B
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

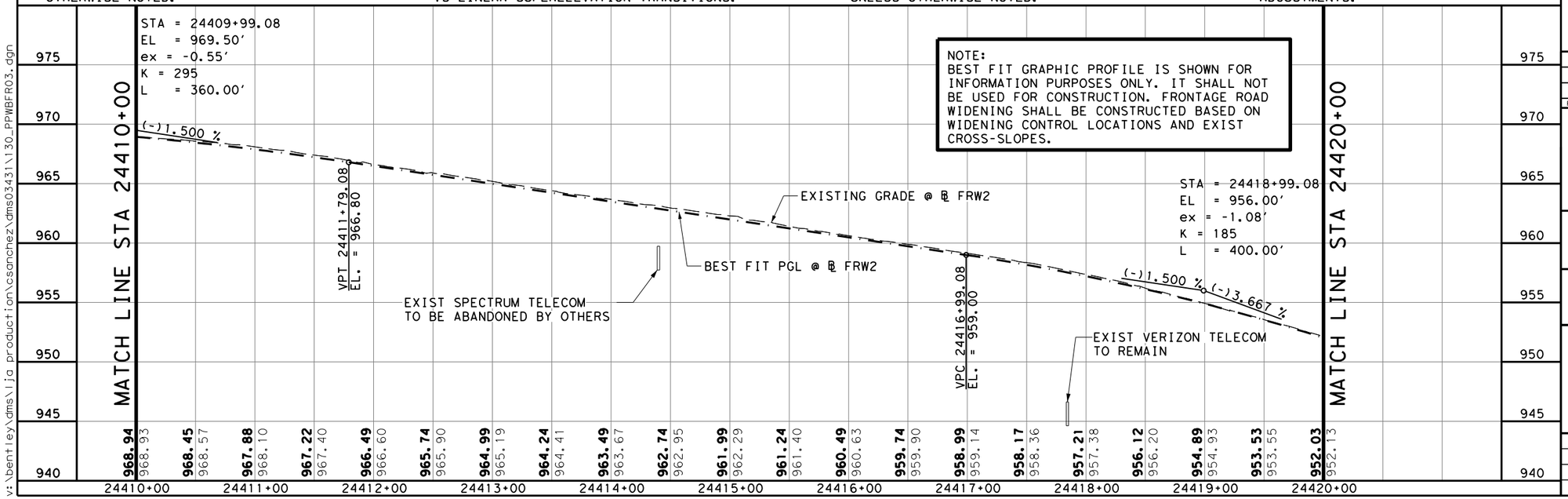
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	140
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	149
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	525
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5115
	0420	6074	CL C CONC (MISC)	CY	1
	0432	6001	RIPRAP (CONC) (4 IN)	CY	36
	0529	6001	CONC CURB (TY I)	LF	173
	0531	6001	CONC SIDEWALKS (4")	SY	642
	0531	6004	CURB RAMPS (TY 1)	EA	2
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	149
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5274
*	3076	6066	TACK COAT	SY	5274
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5245
*	3085	6001	UNDERSEAL COURSE	SY	10519

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

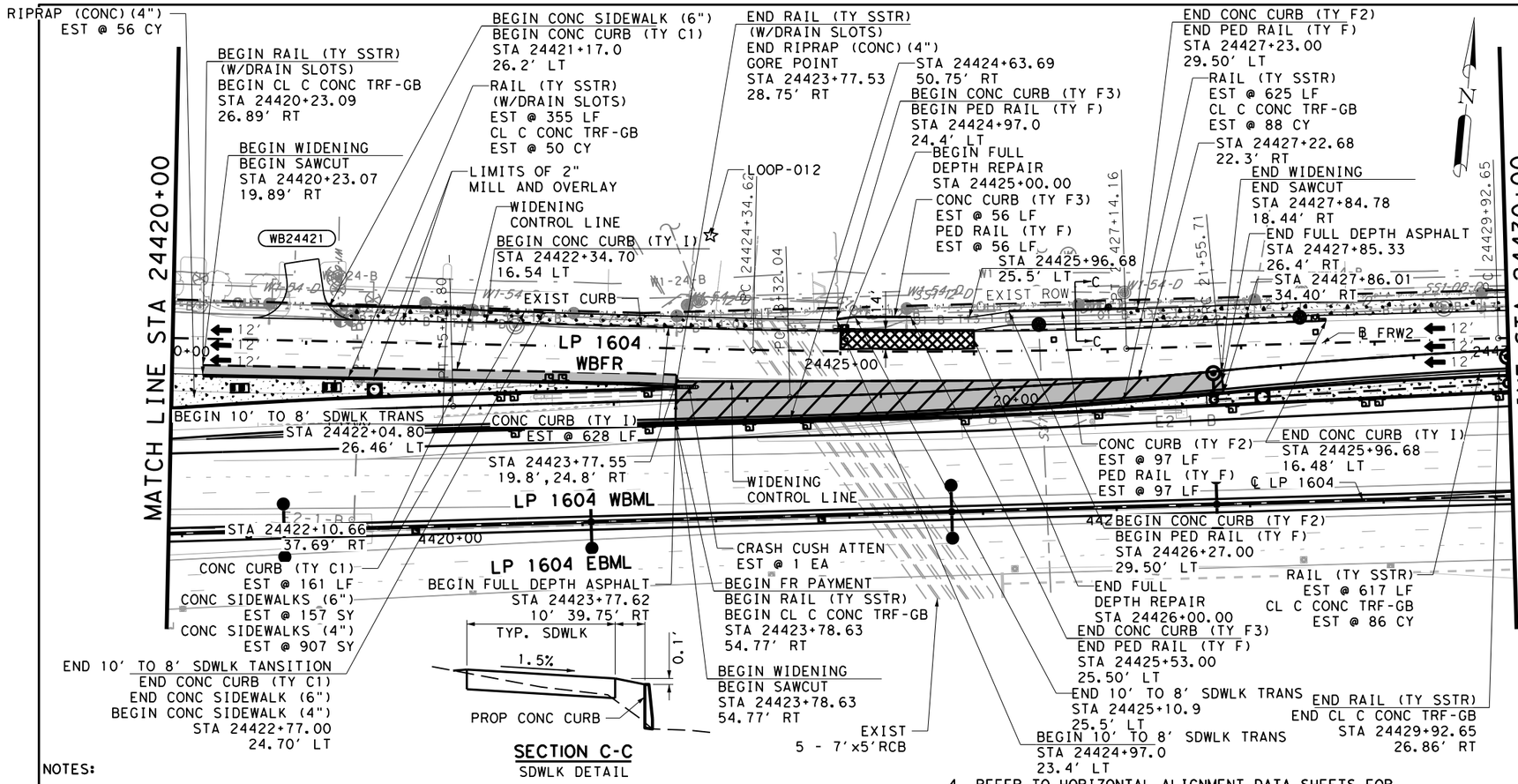
Texas Department of Transportation
©2023

LP 1604
WBFR
PLAN AND PROFILE
STA 24410+00 TO STA 24420+00

SHEET 3 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	868

v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR03.dgn
2/28/2023 4:22:56 PM

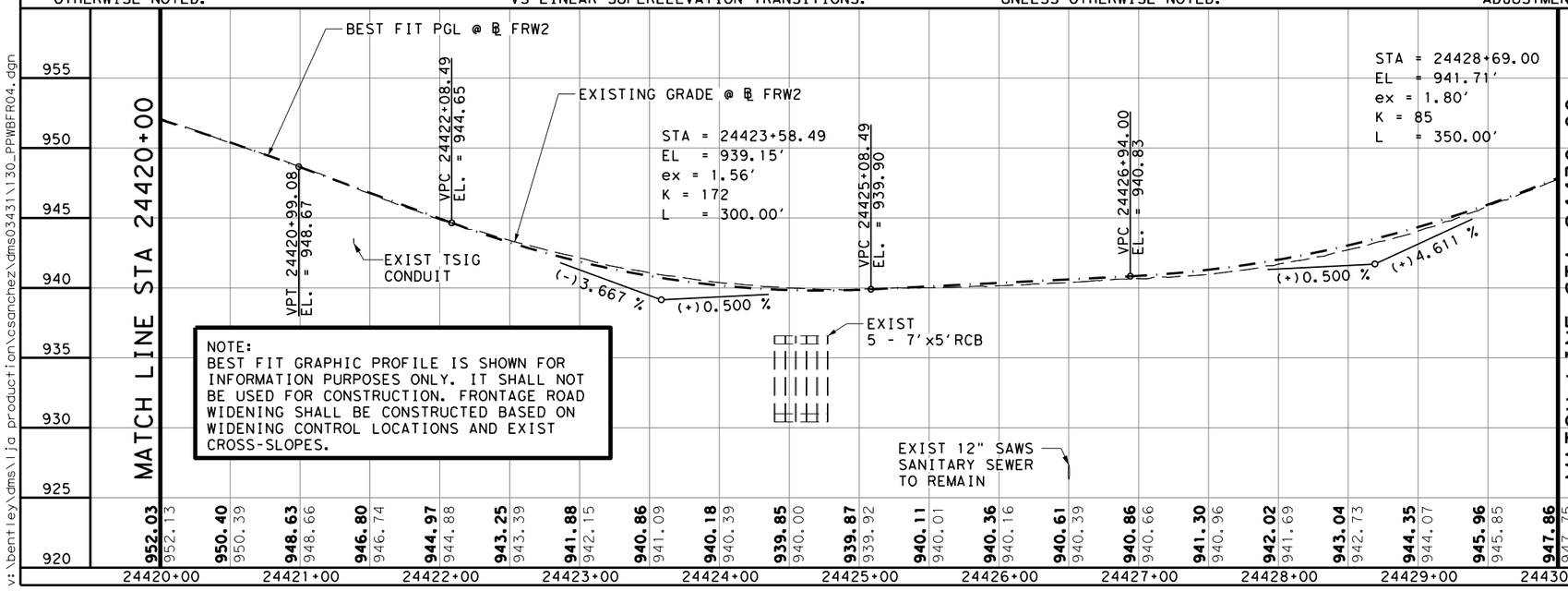


QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
* 0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	568
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	371
0354	6045	PLANE ASPH CONC PAV (2")	SY	3383
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	60
0450	6023	RAIL (TY SSTR)	LF	307
0450	6034	RAIL (TY C402)	LF	38
0531	6001	CONC SIDEWALKS (4")	SY	861
* 3076	6001	D-GR HMA TY-B PG 64-22	SY	568
* 3076	6023	D-GR HMA TY-C PG70-22	SY	3933
* 3076	6066	TACK COAT	SY	3933
* 3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3712
* 3085	6001	UNDERSEAL COURSE	SY	7645

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

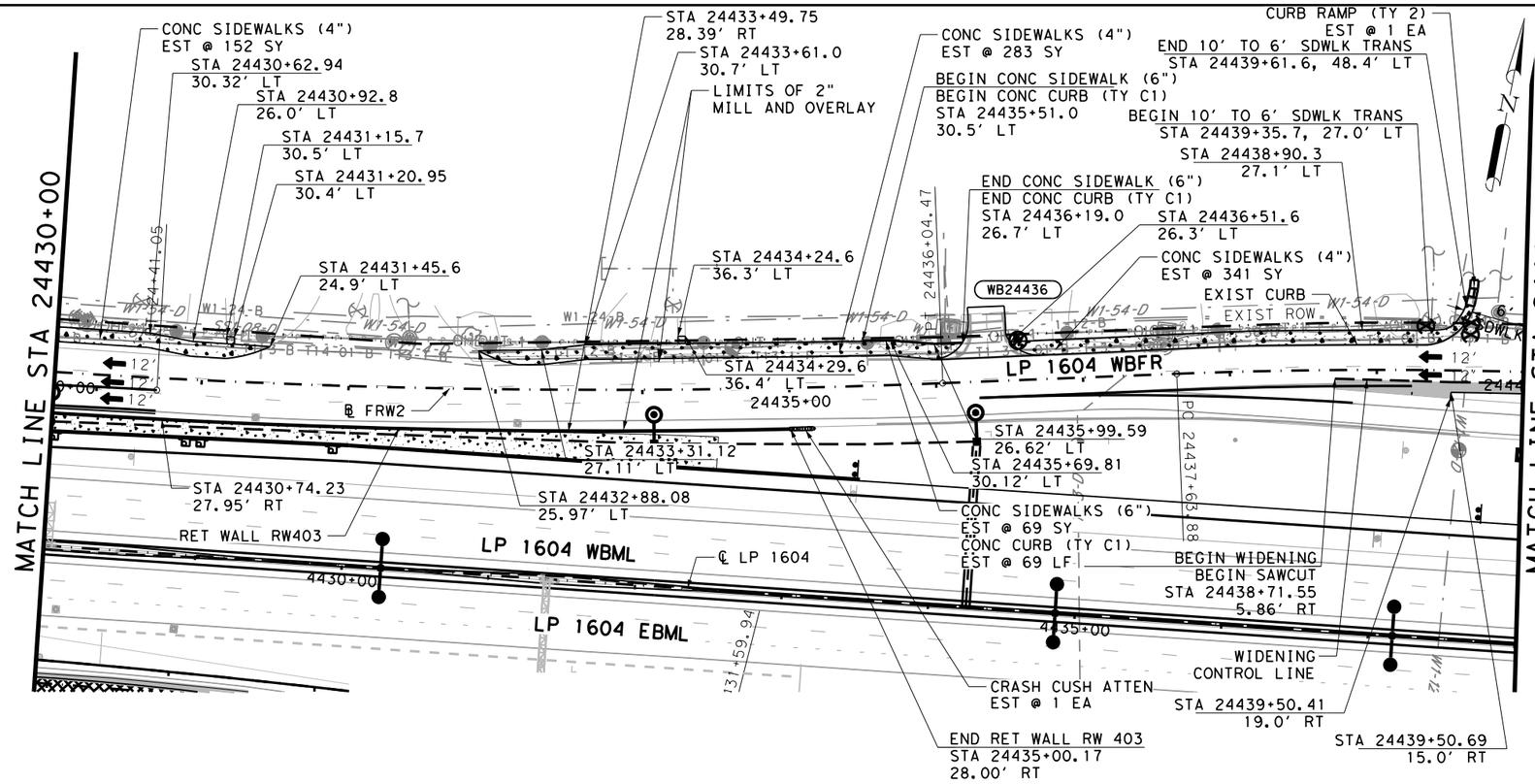
©2023 Texas Department of Transportation

LP 1604
WBFR
PLAN AND PROFILE
STA 24420+00 TO STA 24430+00

SHEET 4 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	869

4:23:36 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR04.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

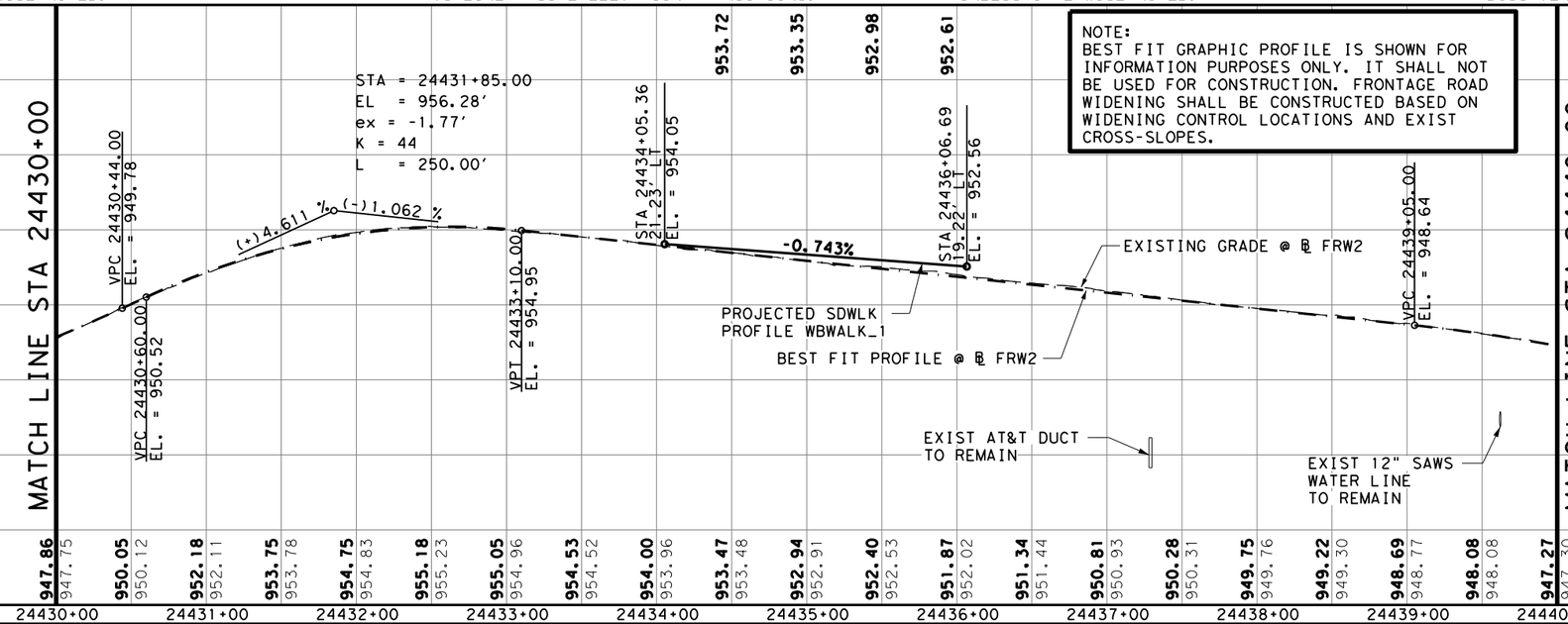
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	146
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	132
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	500
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4900
	0529	6015	CONC CURB (TY C1)	LF	69
	0531	6001	CONC SIDEWALKS (4")	SY	776
	0531	6003	CONC SIDEWALKS (6")	SY	69
	0531	6005	CURB RAMPS (TY 2)	EA	1
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	132
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5004
*	3076	6066	TACK COAT	SY	5004
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4997
*	3085	6001	UNDERSEAL COURSE	SY	10001

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

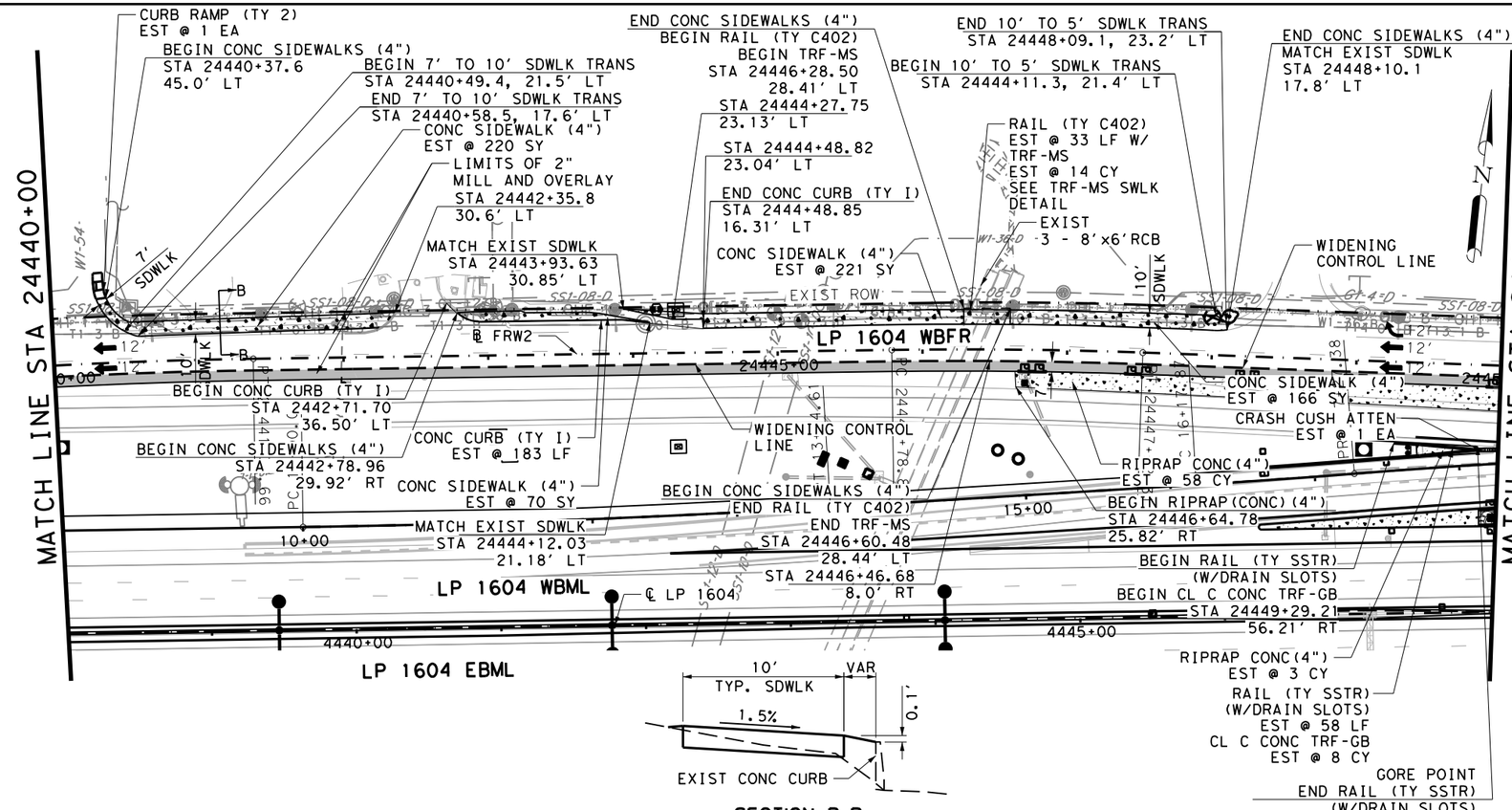
LJA Engineering, Inc.
FRN - F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24430+00 TO STA 24440+00

SHEET 5 OF 24

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	870

4:24:32 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR05.dgn



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
S1-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

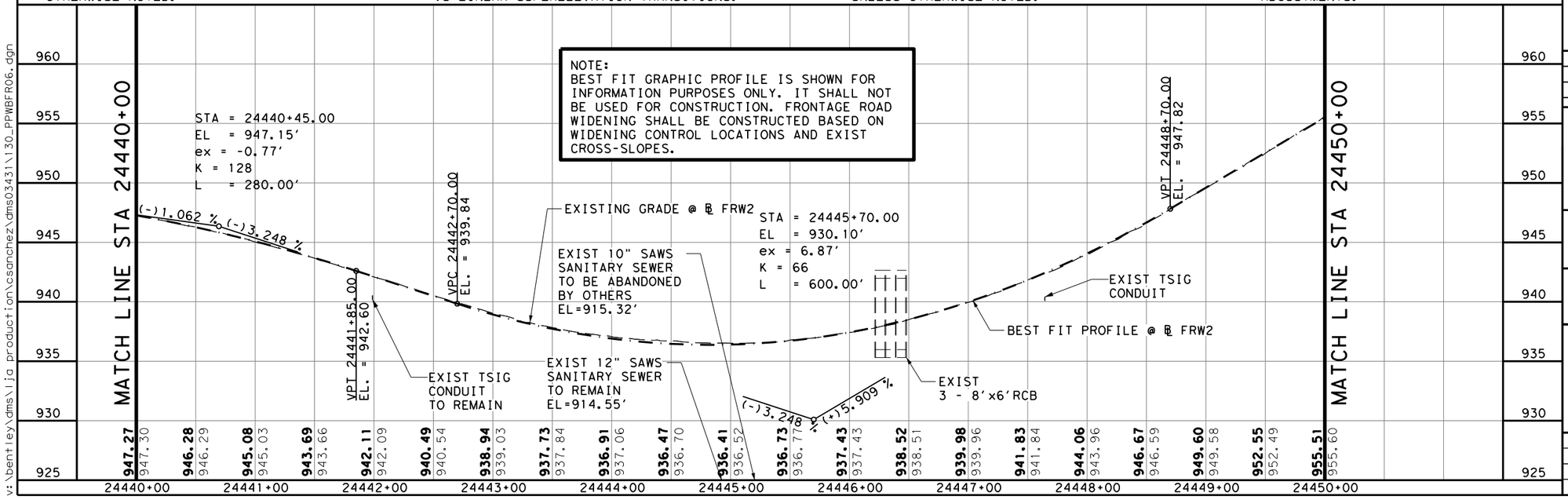
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	722
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	777
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	397
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3197
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	8
	0432	6001	RIPRAP (CONC) (4 IN)	CY	61
	0450	6034	RAIL (TY C402)	LF	33
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	58
	0529	6001	CONC CURB (TY I)	LF	183
	0531	6001	CONC SIDEWALKS (4")	SY	677
	0531	6005	CURB RAMPS (TY 2)	EA	1
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	777
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4030
*	3076	6066	TACK COAT	SY	4030
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3974
*	3085	6001	UNDERSEAL COURSE	SY	8004

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

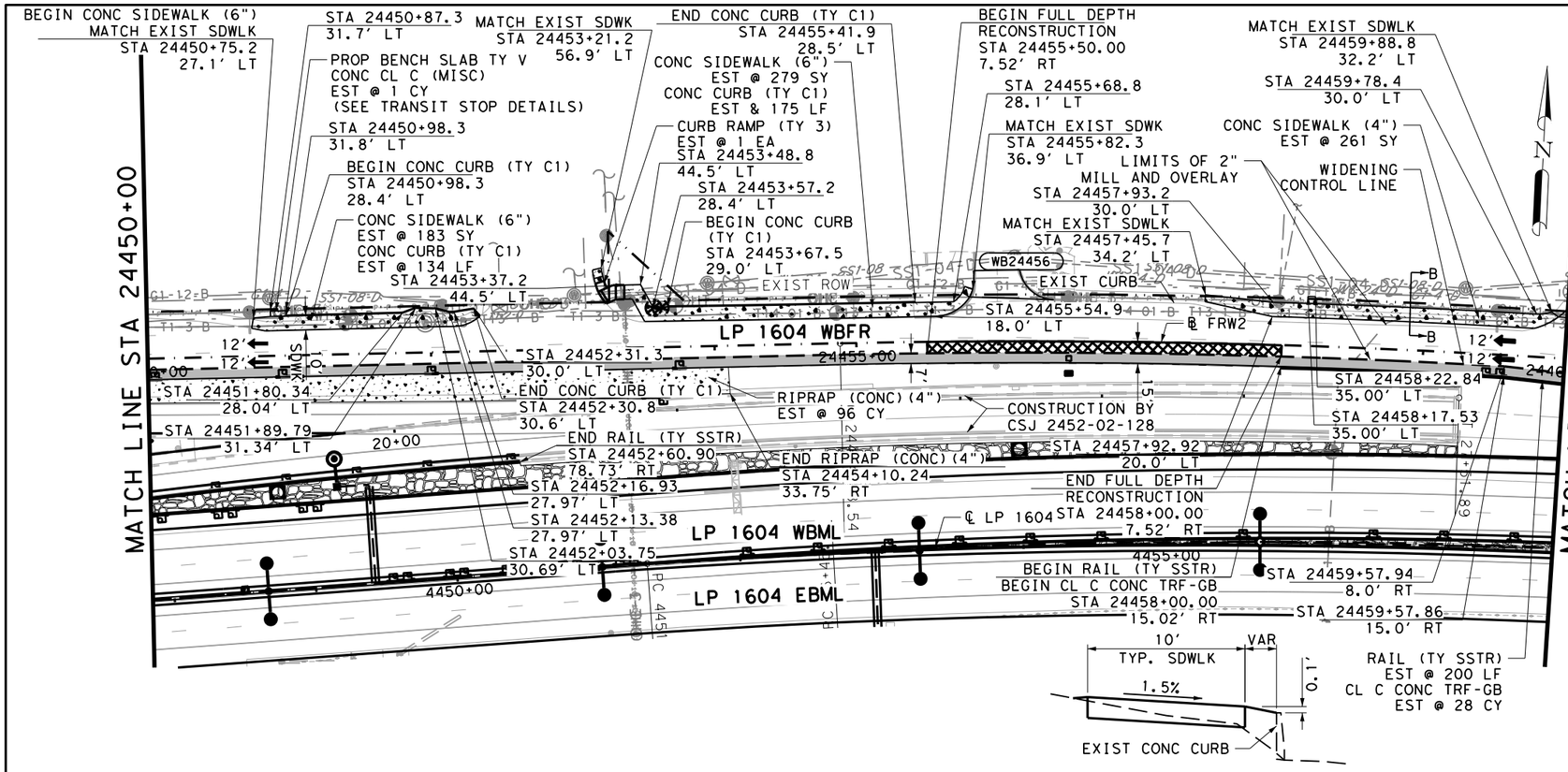
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24440+00 TO STA 24450+00

SHEET 6 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	871

4:25:12 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR06.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- CURVE ID LABEL (XXX-X)
- DRIVEWAY ID (XXXXX)
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

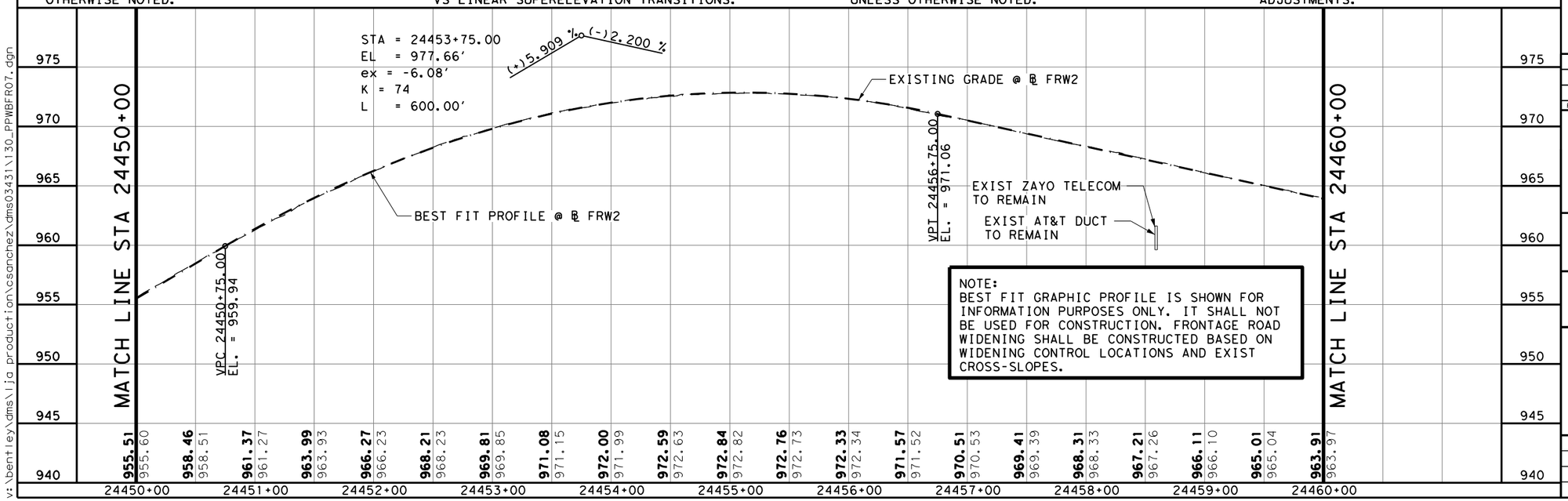
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	725
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1052
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	394
	0354	6045	PLANE ASPH CONC PAV (2")	SY	2931
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	28
	0420	6074	CL C CONC (MISC)	CY	1
	0432	6001	RIPRAP (CONC) (4 IN)	CY	96
	0450	6023	RAIL (TY SSTR)	LF	200
	0529	6015	CONC CURB (TY C1)	LF	309
	0531	6001	CONC SIDEWALKS (4")	SY	261
	0531	6003	CONC SIDEWALKS (6")	SY	462
	0531	6006	CURB RAMPS (TY 3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1052
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4006
*	3076	6066	TACK COAT	SY	4006
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3936
*	3085	6001	UNDERSEAL COURSE	SY	7942

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

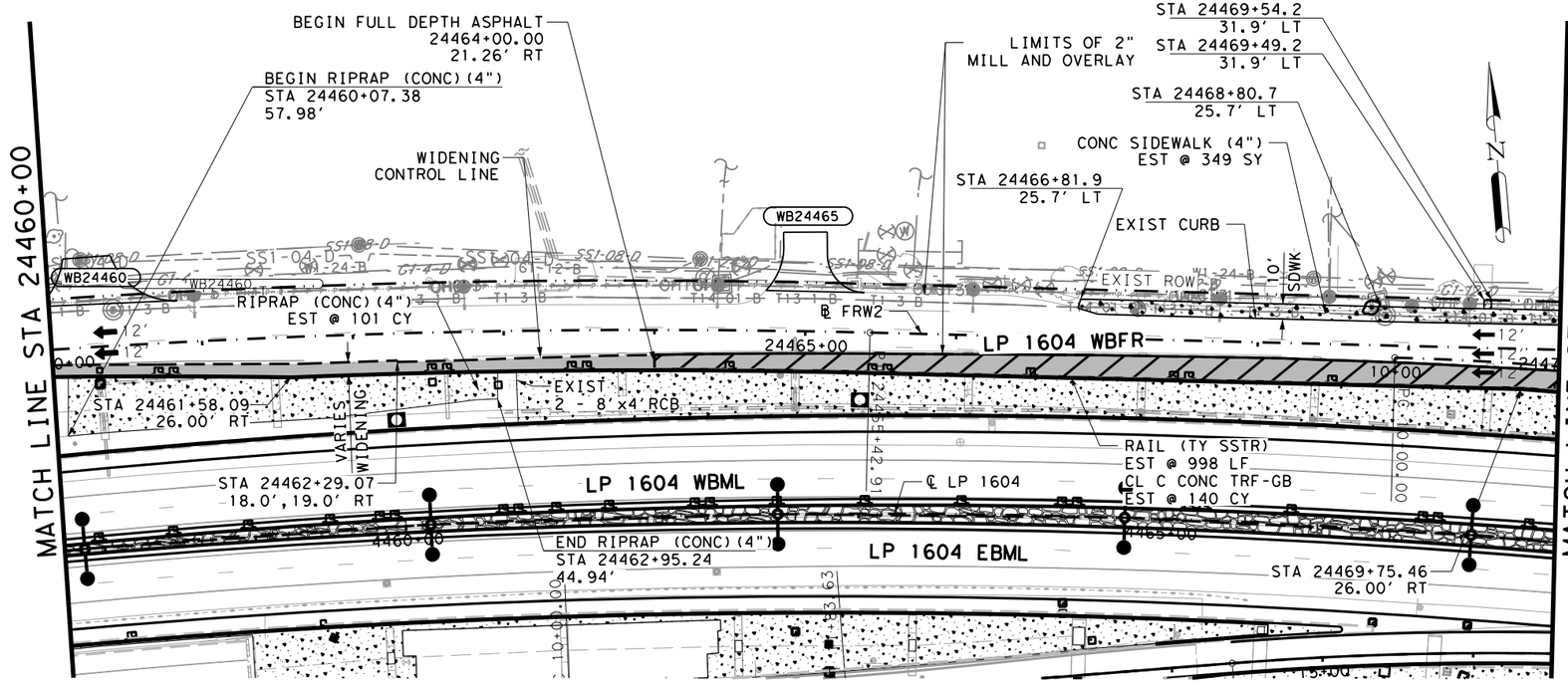
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24450+00 TO STA 24460+00

SHEET 7 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	872

4:25:53 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\1130_PPWBFR07.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

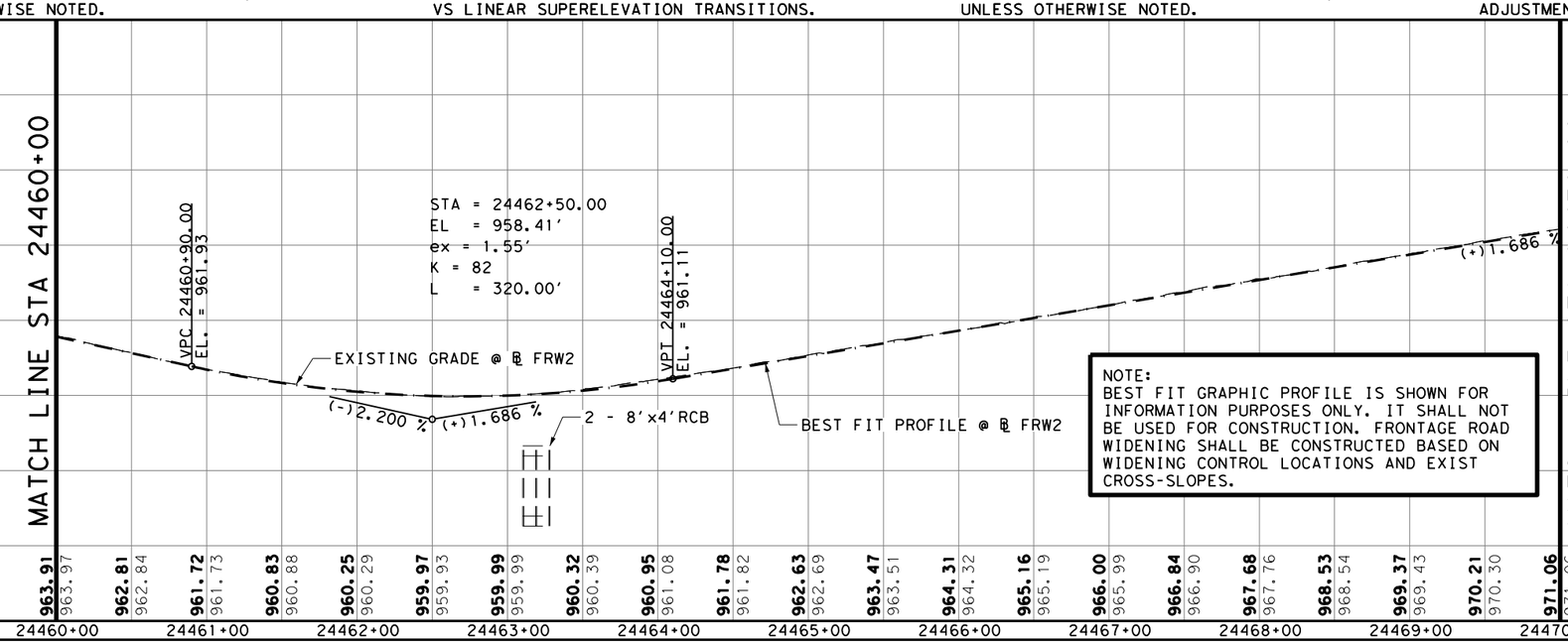
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	251
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1126
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	513
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3858
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	140
	0450	6023	RAIL (TY SSTR)	LF	998
	0531	6001	CONC SIDEWALKS (4")	SY	349
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1126
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5182
*	3076	6066	TACK COAT	SY	5182
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5126
*	3085	6001	UNDERSEAL COURSE	SY	10308

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

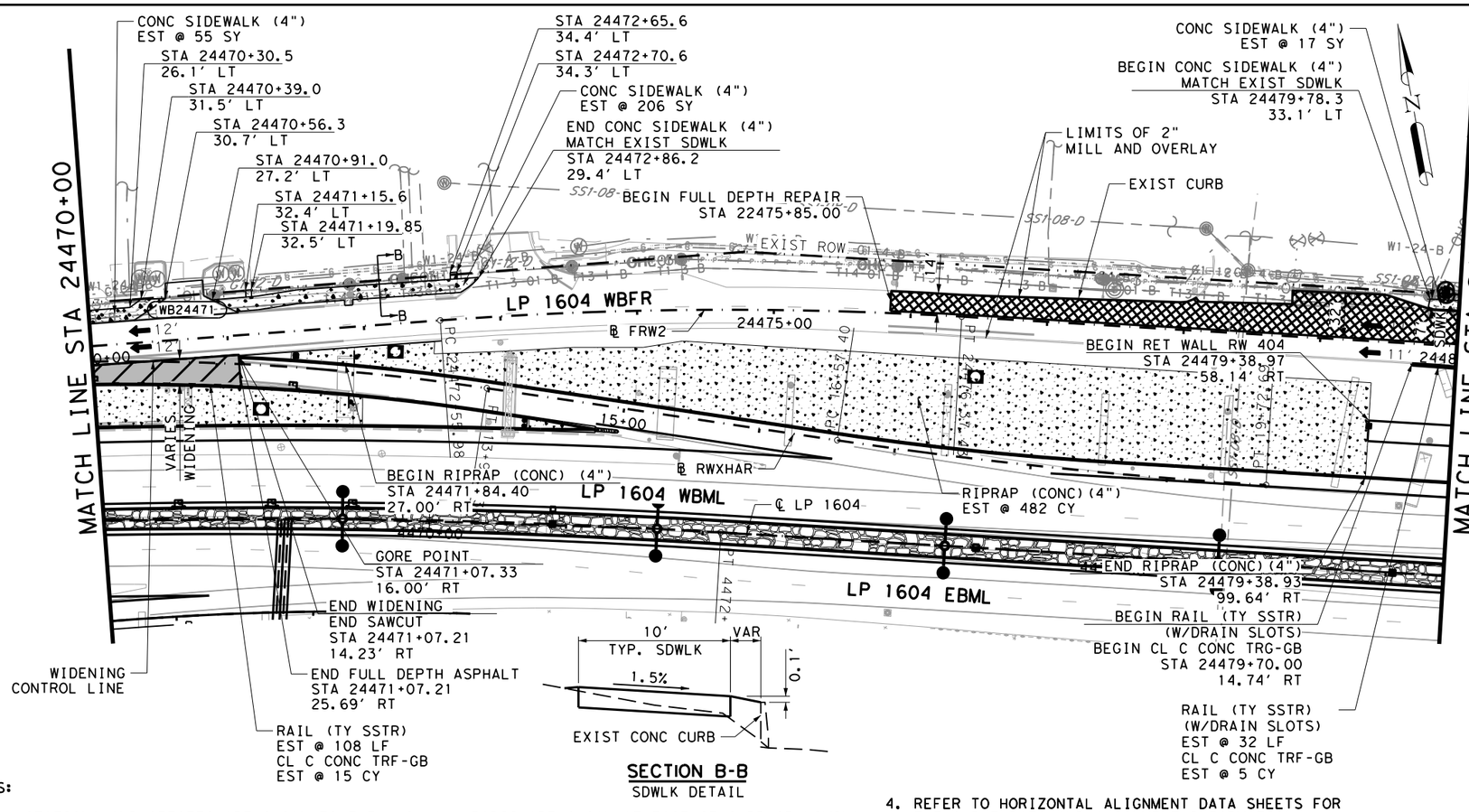
Texas Department of Transportation ©2023

LP 1604
WBFR
PLAN AND PROFILE
STA 24460+00 TO STA 24470+00

SHEET 8 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	873

v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR08.dgn
2/28/2023 4:26:33 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

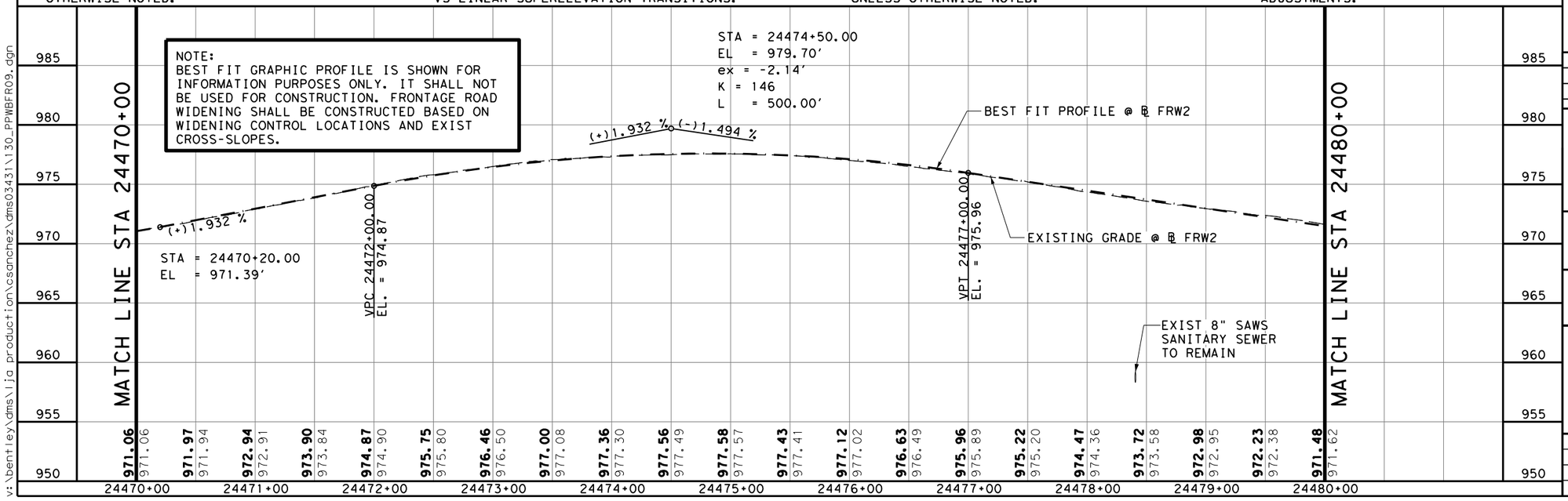
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1210
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	426
	0354	6045	PLANE ASPH CONC PAV (2")	SY	3067
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	20
	0450	6023	RAIL (TY SSTR)	LF	108
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	32
	0528	6001	COLORED TEXTURED CONC (4")	SY	4335
	0531	6001	CONC SIDEWALKS (4")	SY	283
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1210
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4280
*	3076	6066	TACK COAT	SY	4280
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4256
*	3085	6001	UNDERSEAL COURSE	SY	8536

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

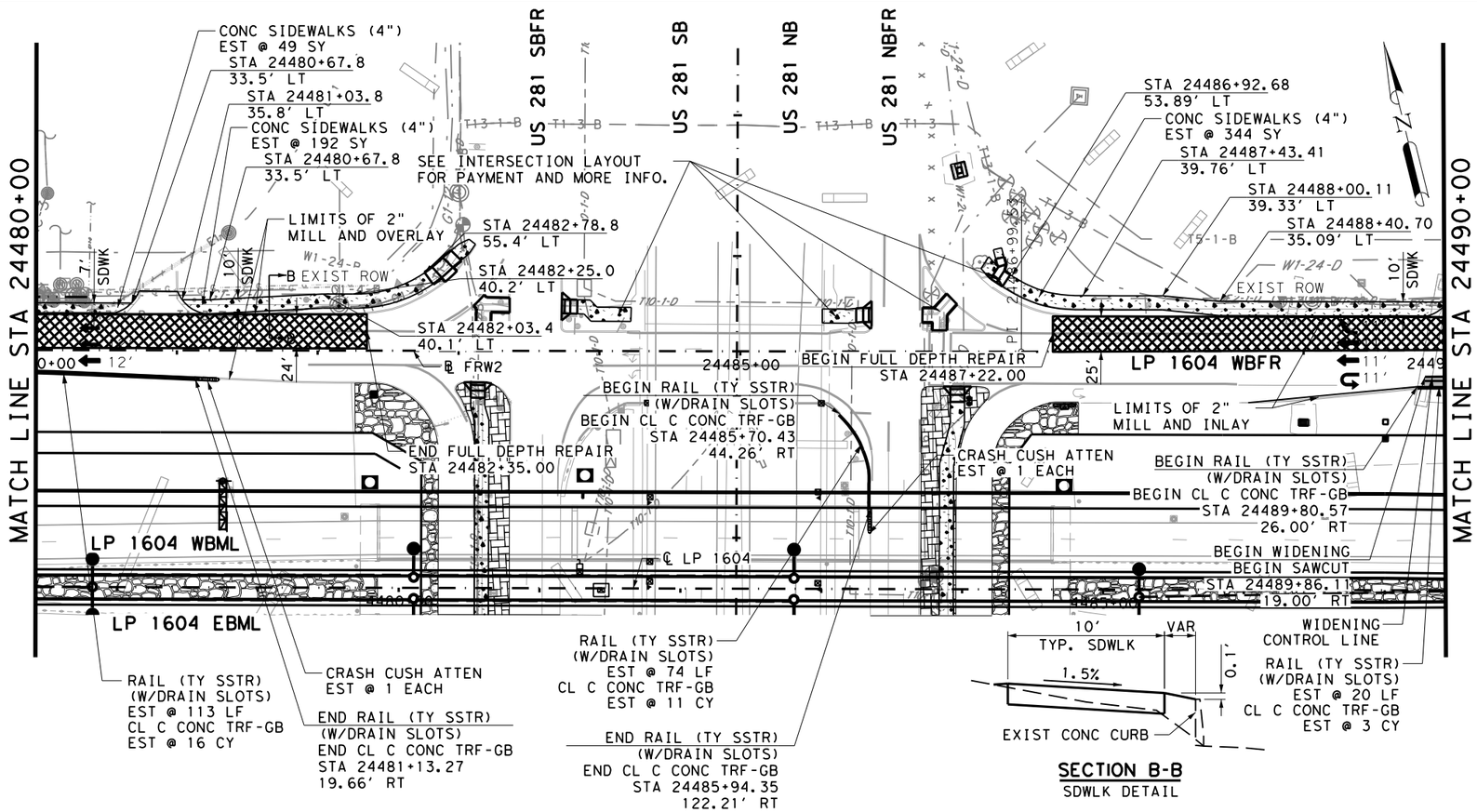
Texas Department of Transportation
©2023

LP 1604
WBFR
PLAN AND PROFILE
STA 24470+00 TO STA 24480+00

SHEET 9 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	874

v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR09.dgn
2/28/2023 4:27:13 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

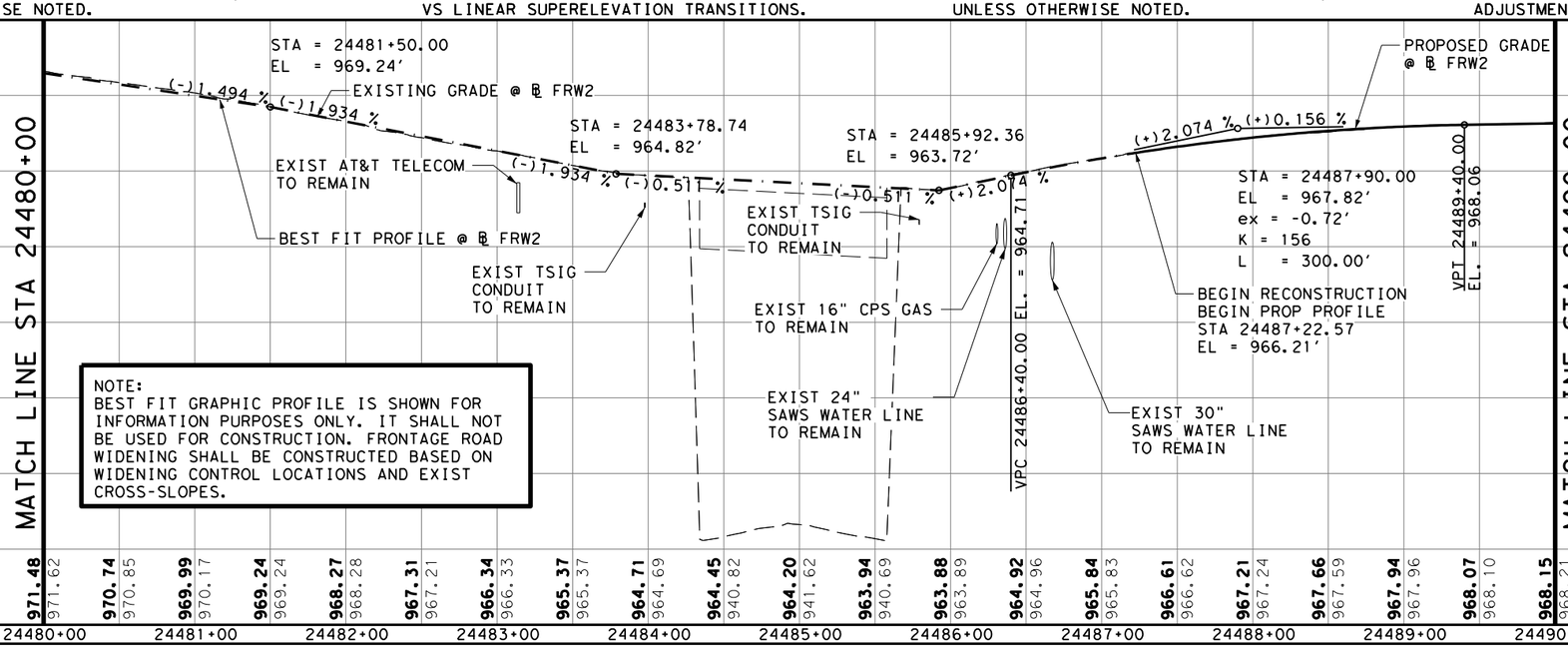
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	8
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1443
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	961
	0354	6045	PLANE ASPH CONC PAV (2")	SY	8220
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	29
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	207
	0531	6001	CONC SIDEWALKS (4")	SY	585
	0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1443
*	3076	6023	D-GR HMA TY-C PG70-22	SY	9635
*	3076	6066	TACK COAT	SY	9635
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	9607
*	3085	6001	UNDERSEAL COURSE	SY	19242

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

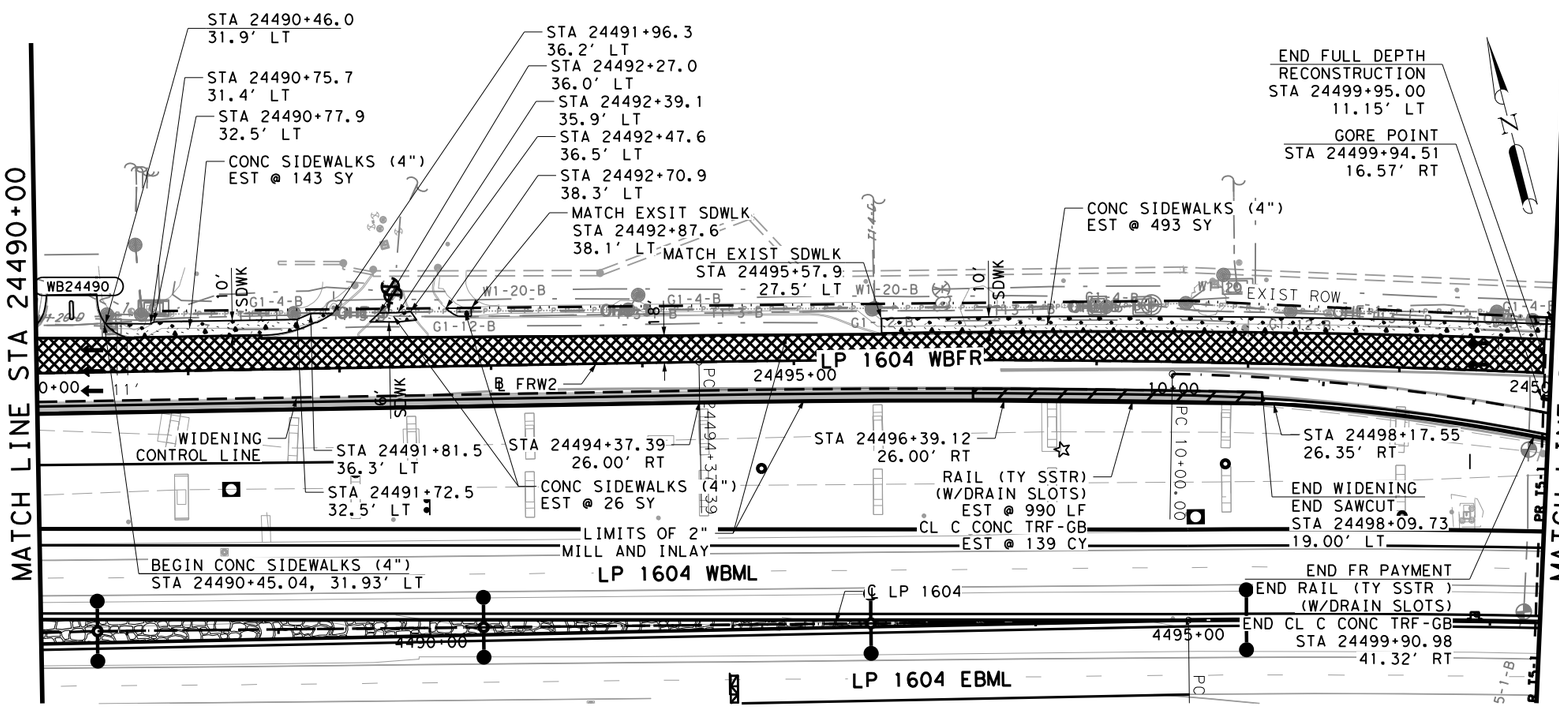
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24480+00 TO STA 24490+00

SHEET 10 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	875

2/28/2023 4:27:53 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR10.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

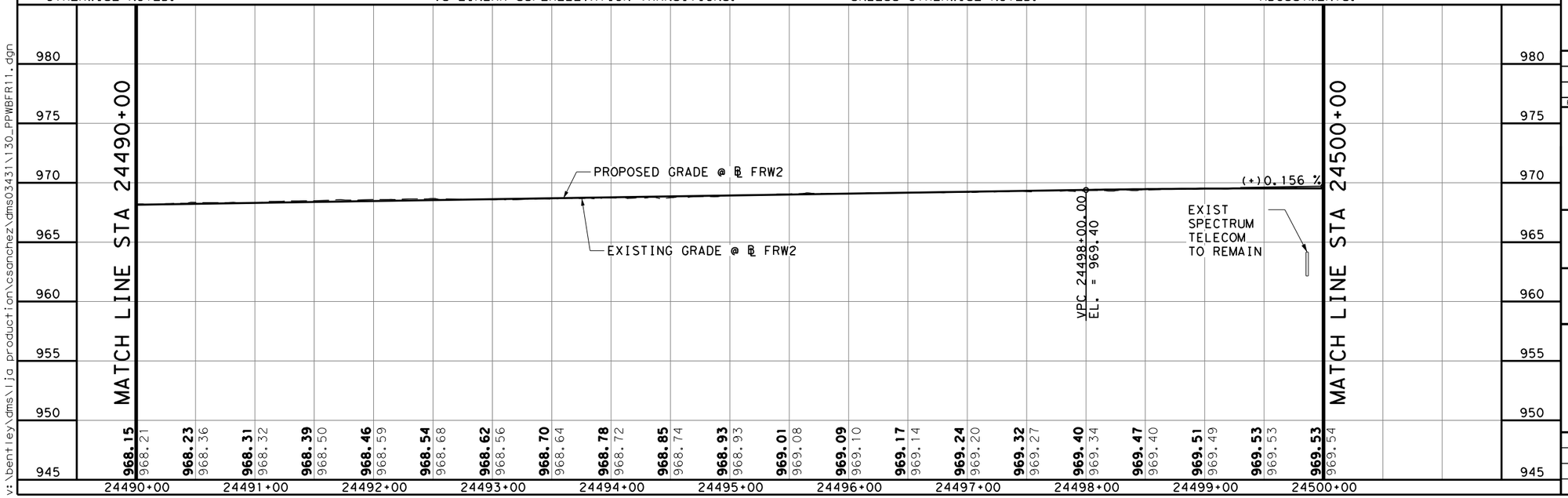
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	449
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	2837
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	514
	0354	6045	PLANE ASPH CONC PAV (2")	SY	2325
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	139
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	990
	0531	6001	CONC SIDEWALKS (4")	SY	662
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	2837
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5196
*	3076	6066	TACK COAT	SY	5196
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5140
*	3085	6001	UNDERSEAL COURSE	SY	10336

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

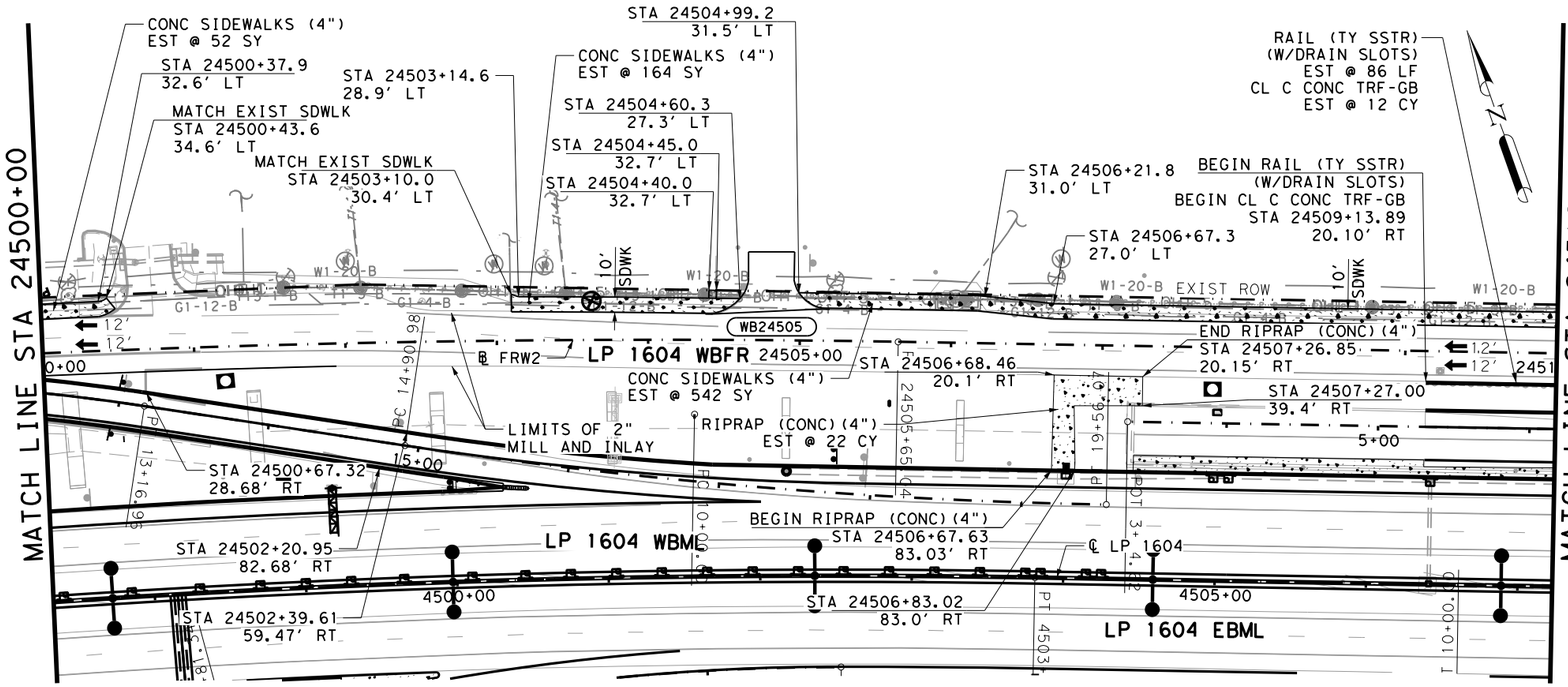
Texas Department of Transportation
©2023

LP 1604
WBFR
PLAN AND PROFILE
STA 24490+00 TO STA 24500+00

SHEET 11 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	876

4:28:32 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR11.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

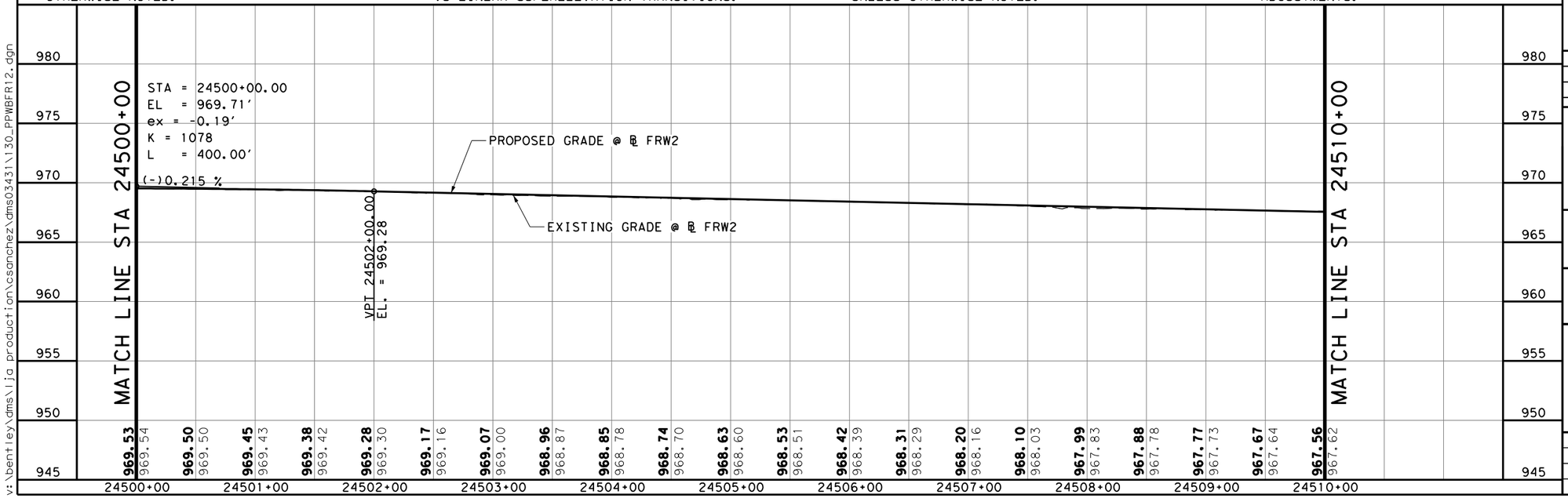
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	448
0354	6045	PLANE ASPH CONC PAV (2")	SY	4484
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	12
0432	6001	RIPRAP (CONC)(4 IN)	CY	22
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	86
0531	6001	CONC SIDEWALKS (4")	SY	758
*3076	6023	D-GR HMA TY-C PG70-22	SY	4484
*3076	6066	TACK COAT	SY	4484
*3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4484
*3085	6001	UNDERSEAL COURSE	SY	8968

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

WBFR

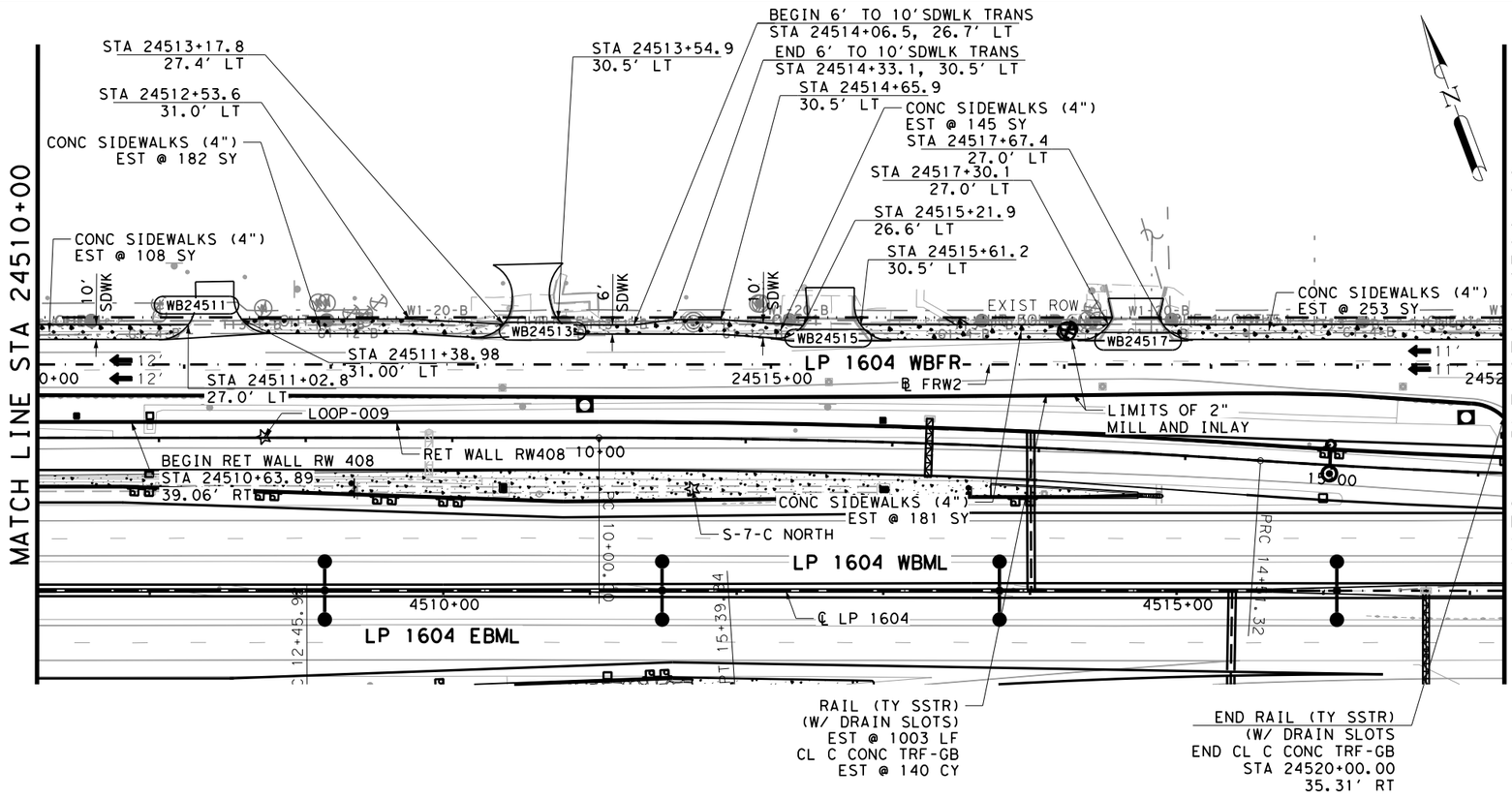
PLAN AND PROFILE

STA 24500+00 TO STA 24510+00

SHEET 12 OF 24

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	877

4:29:11 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR12.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

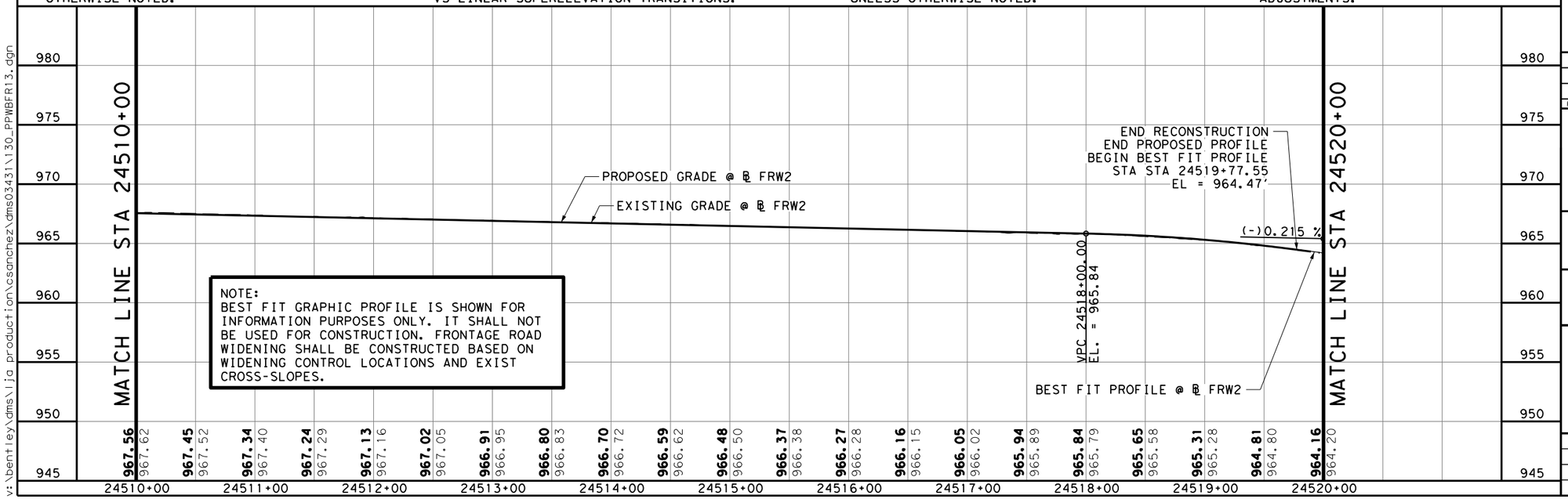
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	431
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5112
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	140
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	1003
	0531	6001	CONC SIDEWALKS (4")	SY	869
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4308
*	3076	6066	TACK COAT	SY	4308
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4308
*	3085	6001	UNDERSEAL COURSE	SY	8616

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

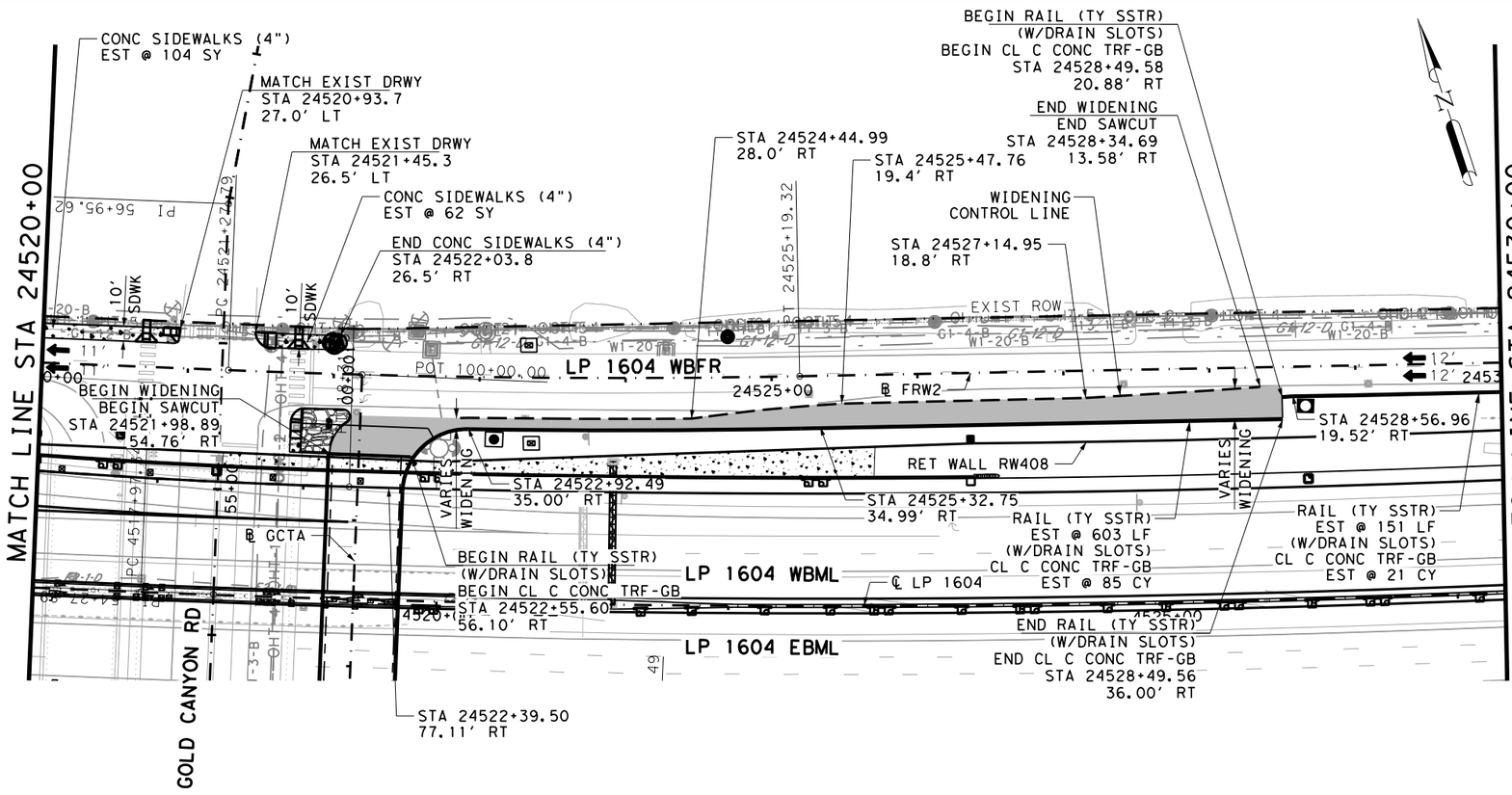
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24510+00 TO STA 24520+00

SHEET 13 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	878

4:29:50 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR13.dgn



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
SI-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

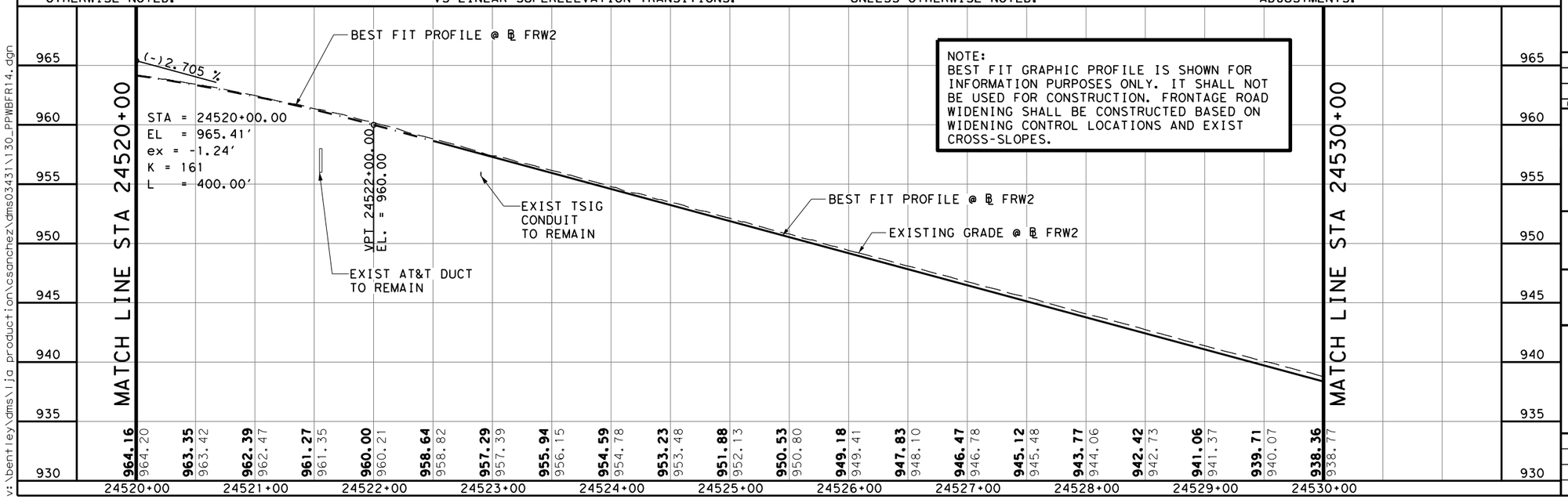
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	909
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	980
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8"	SY	574
	0354	6045	PLANE ASPH CONC PAV (2")	SY	5112
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	106
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	754
	0531	6001	CONC SIDEWALKS (4")	SY	166
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	980
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5736
*	3076	6066	TACK COAT	SY	5736
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5736
*	3085	6001	UNDERSEAL COURSE	SY	11472

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

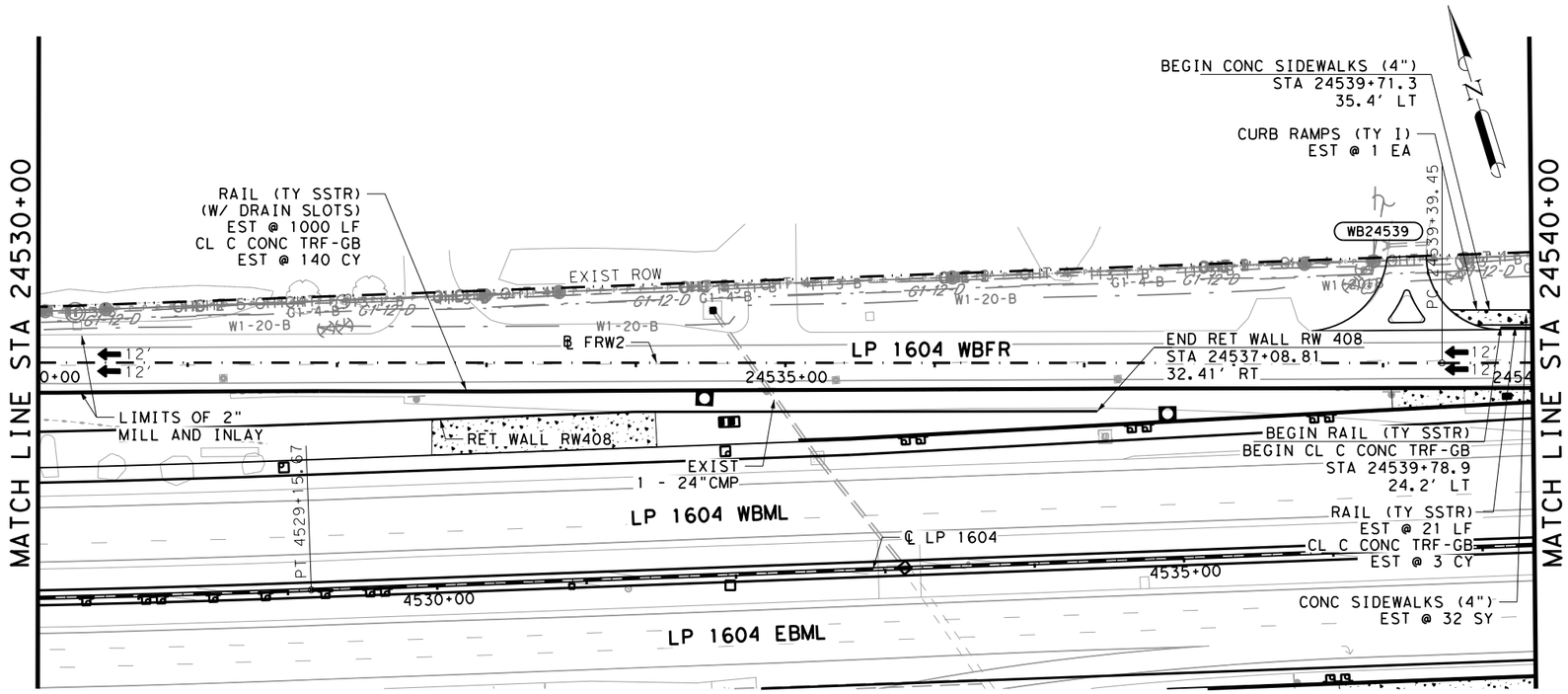
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24520+00 TO STA 24530+00

SHEET 14 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	879

4:30:30 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR14.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

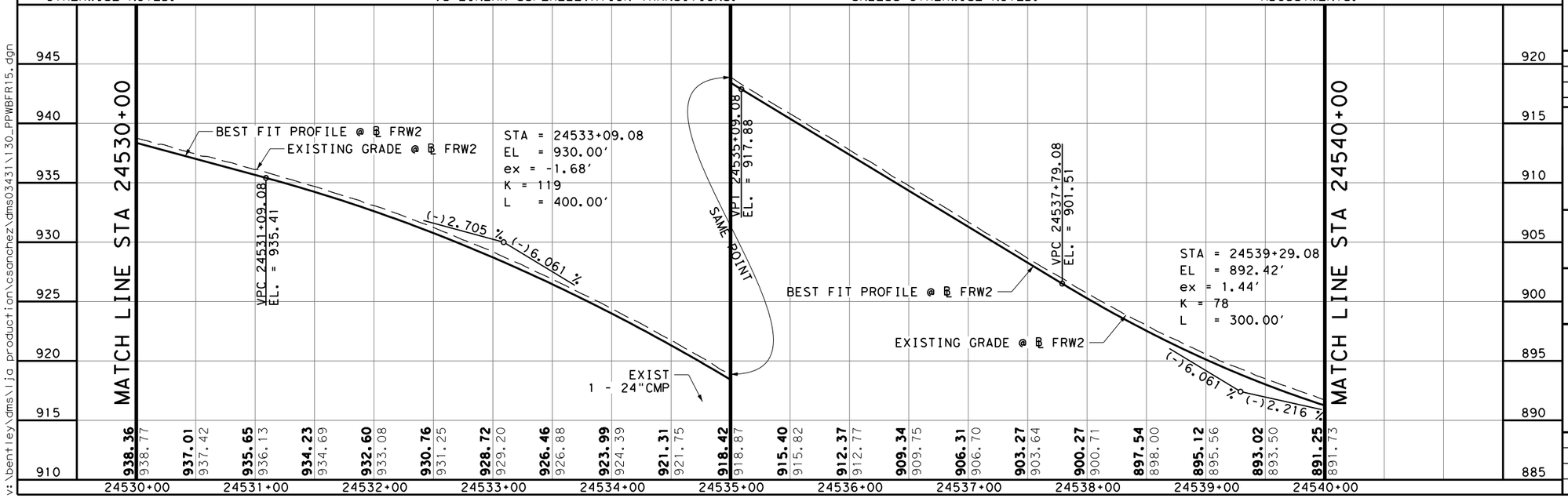
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	432
0354	6045	PLANE ASPH CONC PAV (2")	SY	4320
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	143
0450	6023	RAIL (TY SSTR)	LF	21
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	1000
0529	6001	CONC CURB (TY I)	LF	29
0531	6001	CONC SIDEWALKS (4")	SY	32
0531	6004	CURB RAMPS (TY I)	EA	1
* 3076	6023	D-GR HMA TY-C PG70-22	SY	4320
* 3076	6066	TACK COAT	SY	4320
* 3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4320
* 3085	6001	UNDERSEAL COURSE	SY	8640

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

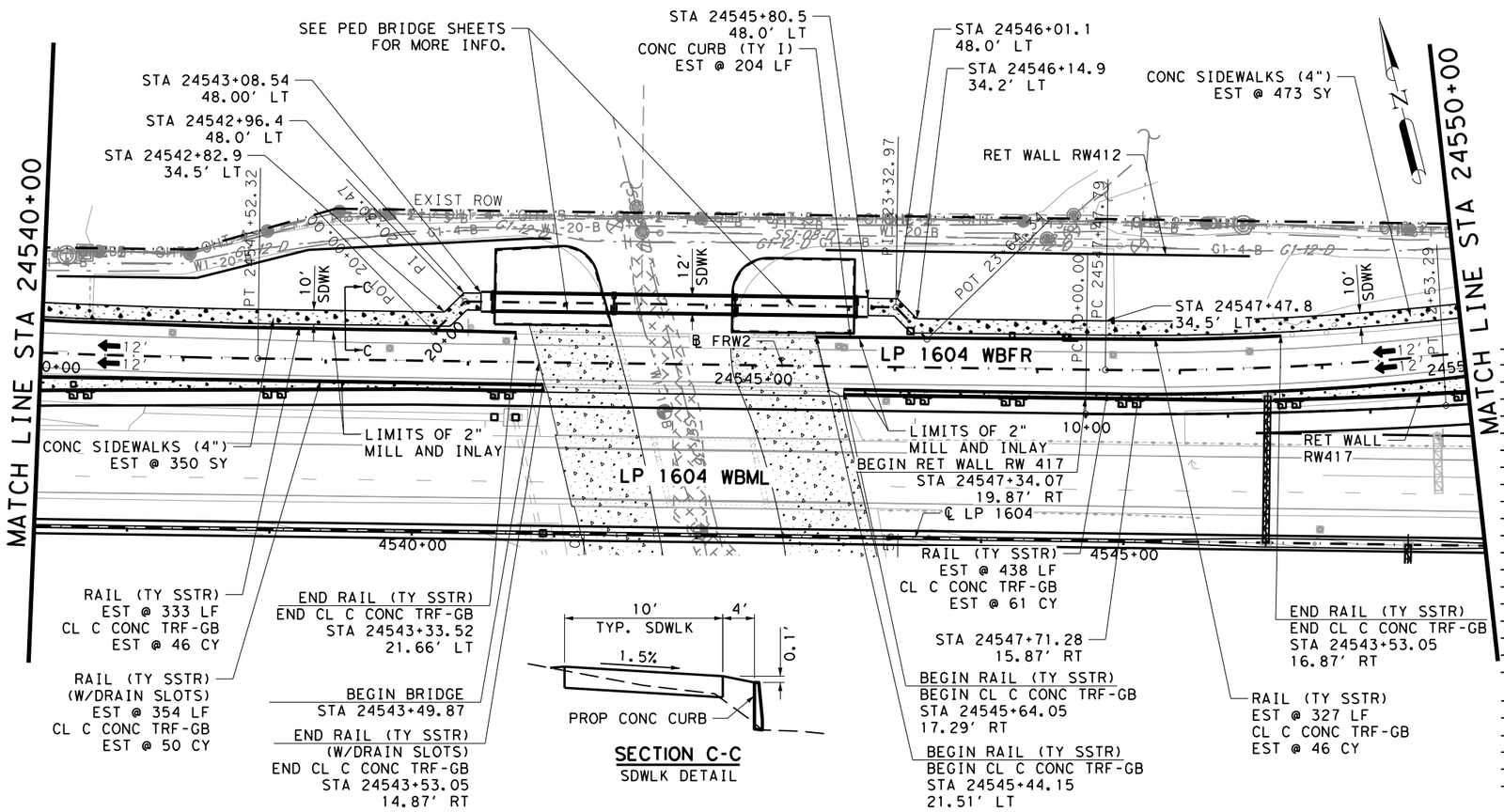
LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

LP 1604
WBFR
PLAN AND PROFILE
STA 24530+00 TO STA 24540+00

SHEET 15 OF 24

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	880



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

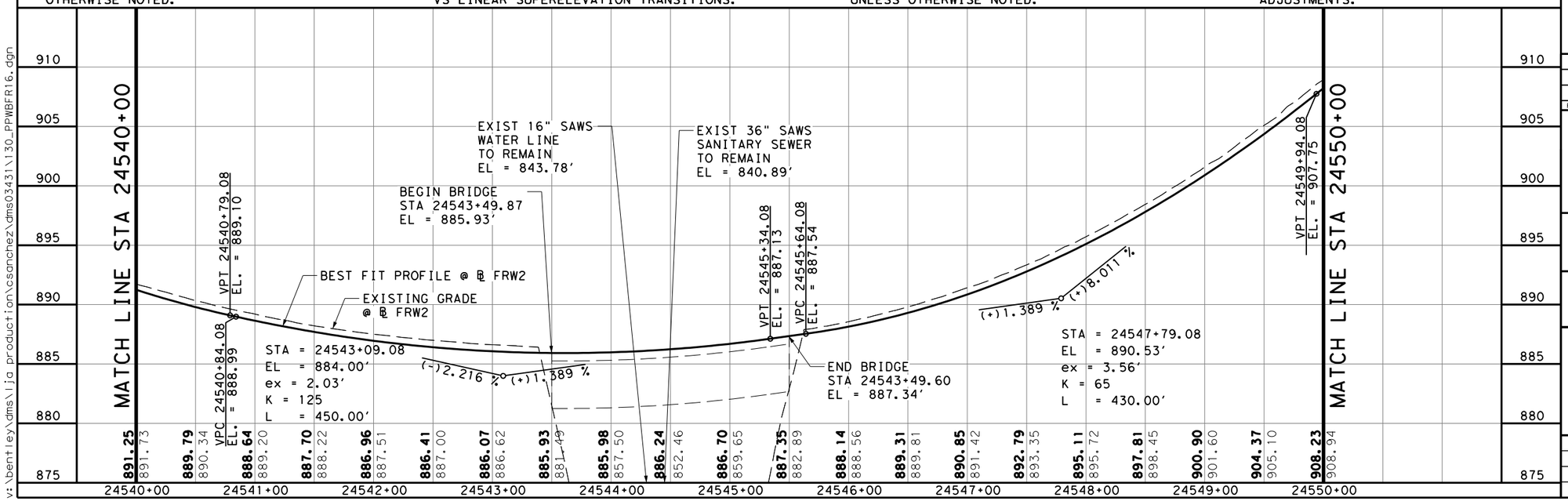
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	322
0354	6045	PLANE ASPH CONC PAV (2")	SY	3218
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	203
0450	6023	RAIL (TY SSTR)	LF	1098
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	354
0529	6001	CONC CURB (TY I)	LF	548
0531	6001	CONC SIDEWALKS (4")	SY	823
* 3076	6023	D-GR HMA TY-C PG70-22	SY	3218
* 3076	6066	TACK COAT	SY	3218
* 3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	3218
* 3085	6001	UNDERSEAL COURSE	SY	6436

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

LP 1604

WBFR

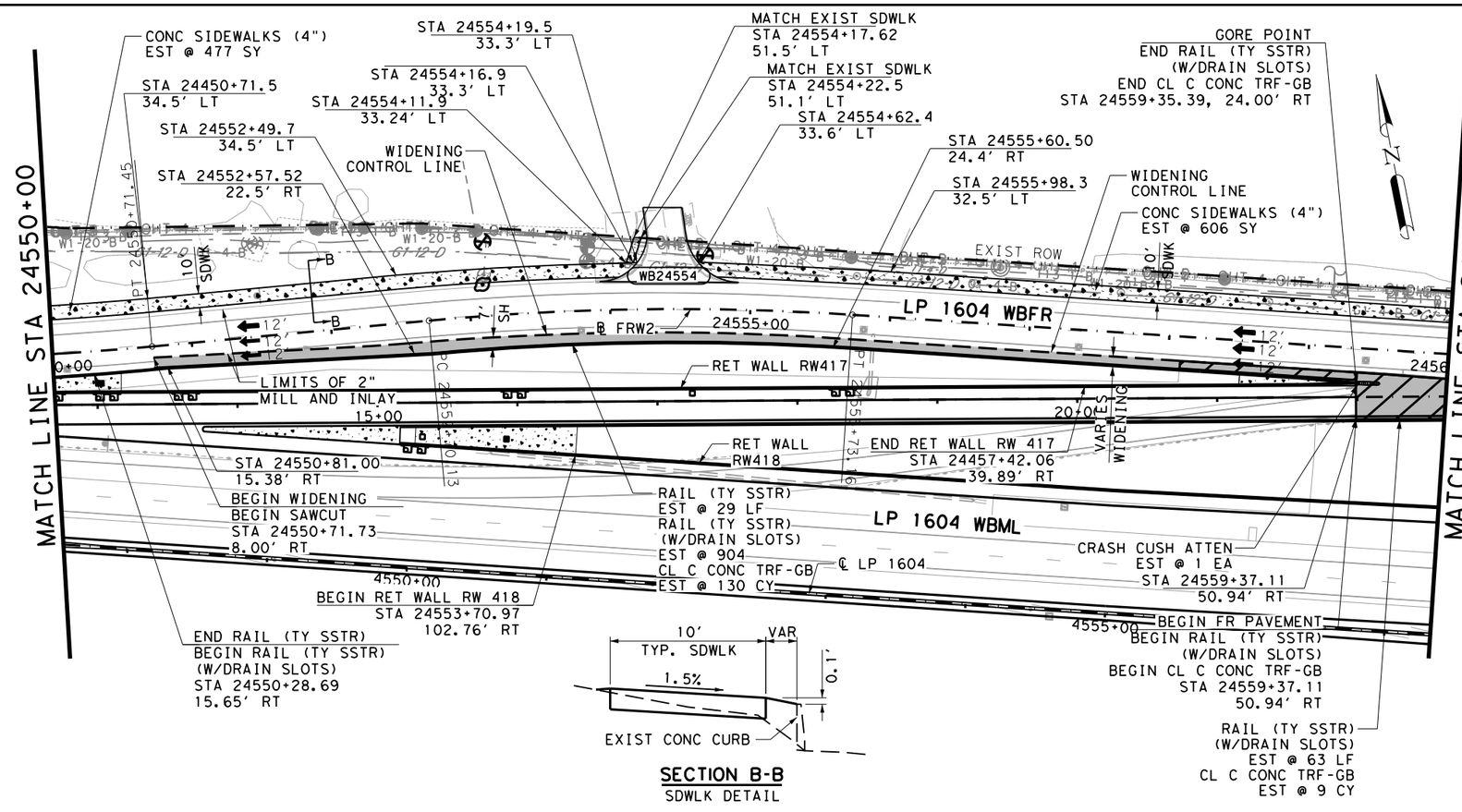
PLAN AND PROFILE

STA 24540+00 TO STA 24550+00

SHEET 16 OF 24

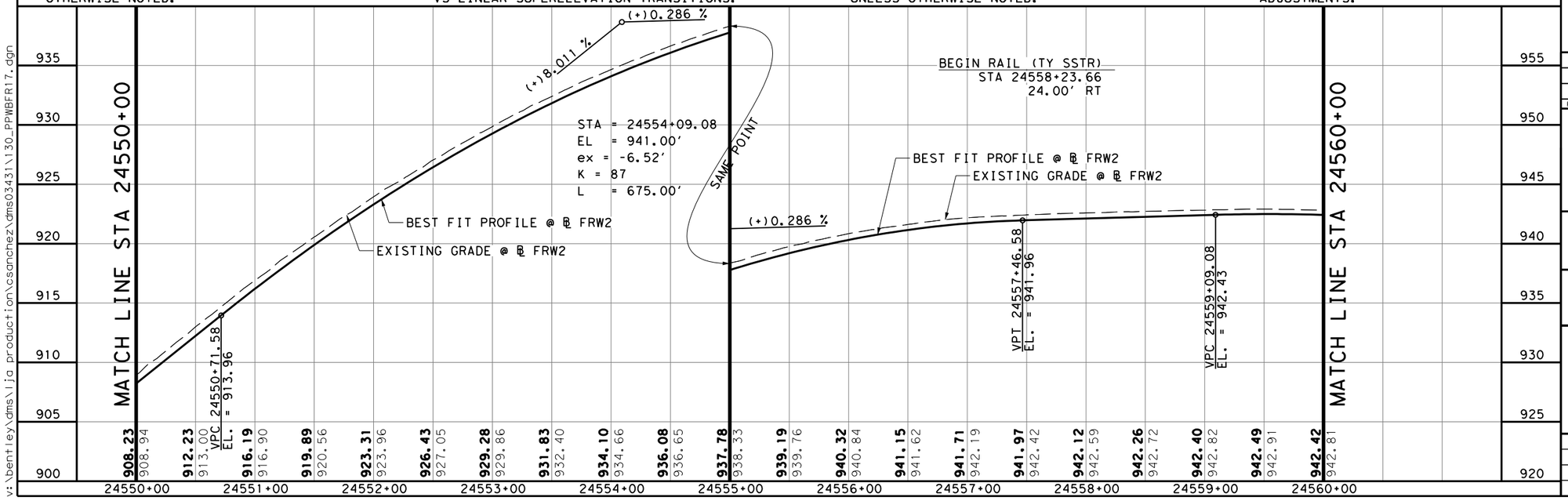
FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	881

2/28/2023 4:31:59 PM
v:\bentley\dms\lja production\sanchez\dms03431\1130_PPWBFR16.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

	EXIST ROW
	EXIST DRN ESMNT
	WIDENING CONTROL LINE
	EXIST TRF FLOW
	PROP TRF FLOW
	PROP CONCRETE
	COLOR TEXTURED CONC (4")
	PROP WIDENING/ RECONSTRUCTION
	WETLANDS
	OHWM
XXX-X	CURVE ID LABEL
XXXXX	DRIVEWAY ID
	TEST HOLE LOCATION
	SURVEYED ENVRNMNTL SENSITIVE FEATURE
T1-XX	AT&T - D(IN)
T4-1	CENTURYLINK
T5-1	CHARTER-SPECTRUM
T7-1	GRANDE
T8-1	CONTERRA
T9-1	MCI-VERIZON
T10-1	TXDOT TRANSGUIDE
T11-1	FIBERLIGHT
T13-1	ZAYO
S1-1-D	TXDOT SIGNALS
OHT-1	CHARTER-SPECTRUM
OHC-3	AT&T
OHT-4	GRANDE
OHT-5	CENTURYLINK
OHT-06	CONTERRA
OHT-07	ZAYO
OHT-09	CPS
OHT-10	FIBERLIGHT
OHE-1	CPS ENERGY
OHE-2	CPS ENERGY (TRANSMISSION)
E1-1	CPS ENERGY
E2	TXDOT
W1-XX	SAWS WATER-D(IN)
SS1-XX	SAWS SAN SWR-D(IN)
G1-XX	CPS ENERGY-D(IN)
G2-XX	GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	355
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	715
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	490
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4092
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	139
	0450	6023	RAIL (TY SSTR)	LF	29
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	967
	0531	6001	CONC SIDEWALKS (4")	SY	1083
	0545	6007	CRASH CUSH ATTEN (INSTL)(L)(N)(TL3)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	715
*	3076	6023	D-GR HMA TY-C PG70-22	SY	4903
*	3076	6066	TACK COAT	SY	4903
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	4903
*	3085	6001	UNDERSEAL COURSE	SY	9806

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

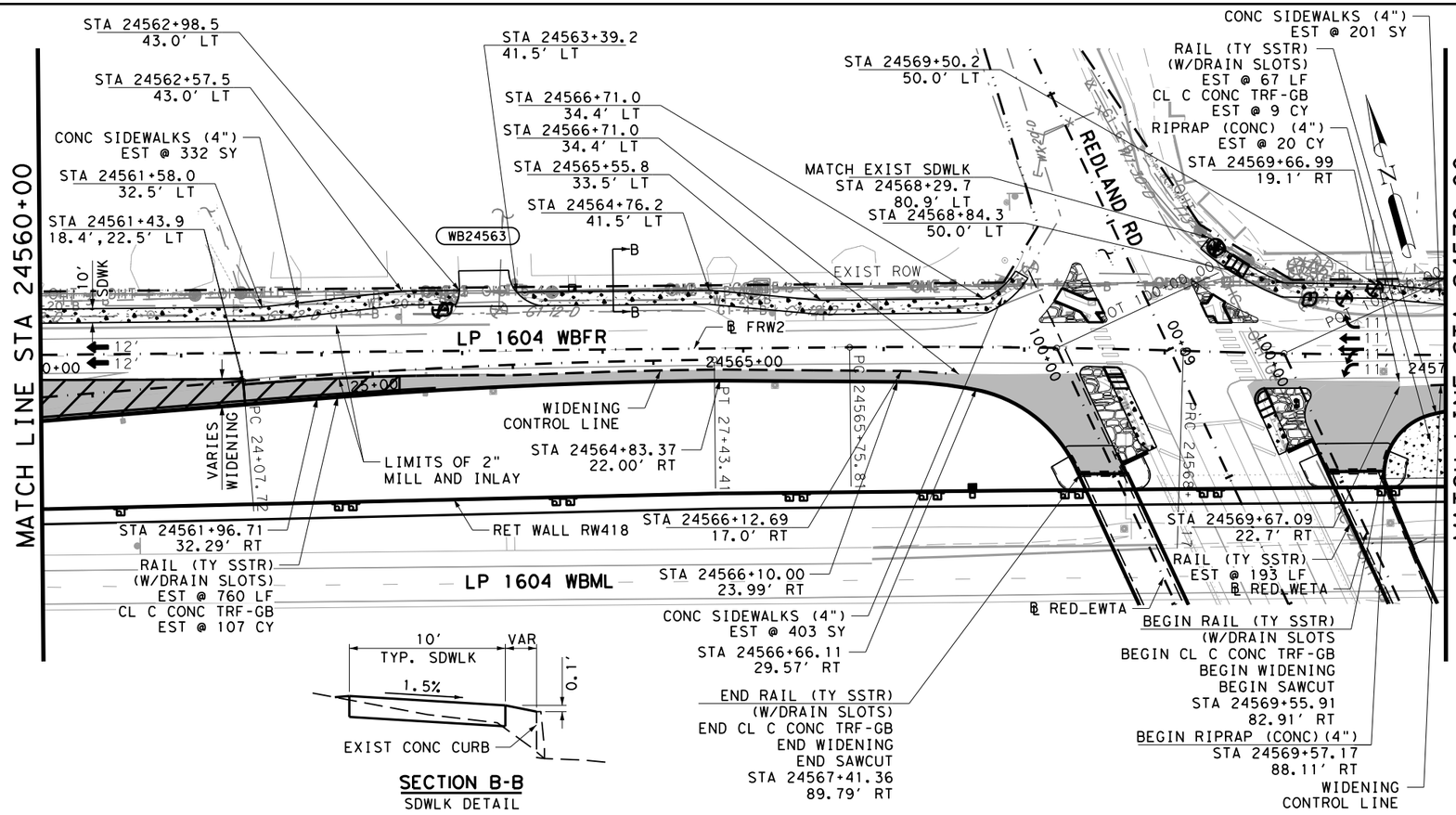
Texas Department of Transportation ©2023

LP 1604
WBFR
PLAN AND PROFILE
STA 24550+00 TO STA 24560+00

SHEET 17 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	882

4:32:42 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR17.dgn



SECTION B-B
SDWLK DETAIL

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

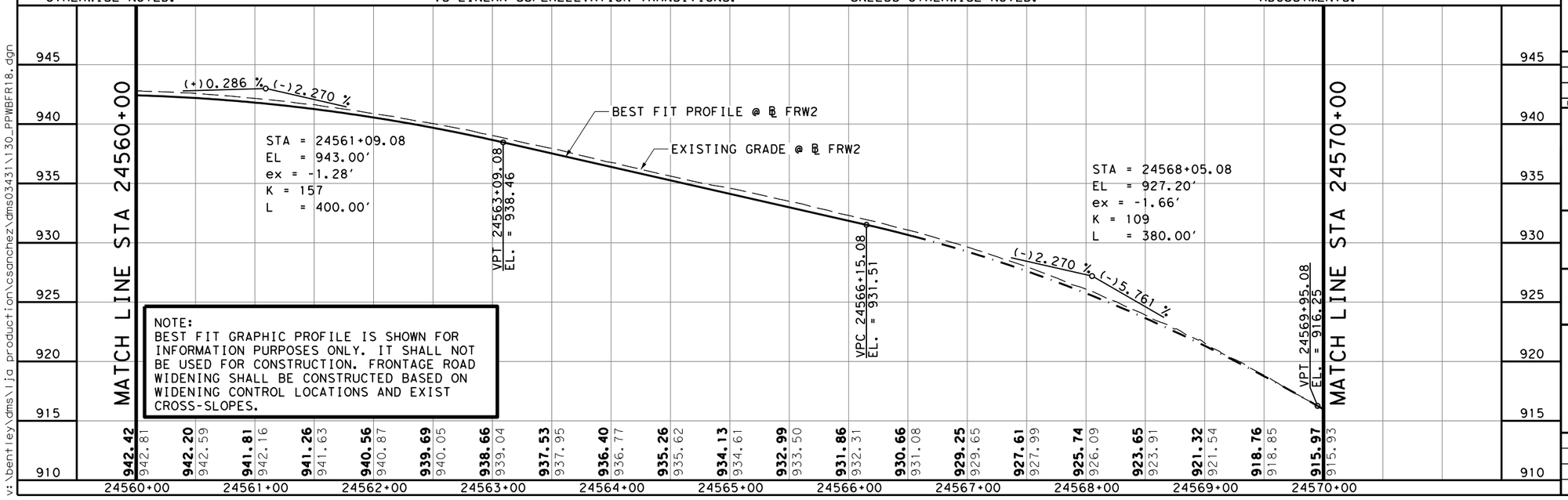
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	1119
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1686
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8"	SY	816
	0354	6045	PLANE ASPH CONC PAV (2")	SY	6447
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	116
	0432	6001	RIPRAP (CONC)(4 IN)	CY	20
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	827
	0531	6001	CONC SIDEWALKS (4")	SY	936
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1686
*	3076	6023	D-GR HMA TY-C PG70-22	SY	8159
*	3076	6066	TACK COAT	SY	8159
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	8159
*	3085	6001	UNDERSEAL COURSE	SY	16317

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



NOTE:
BEST FIT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE
REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

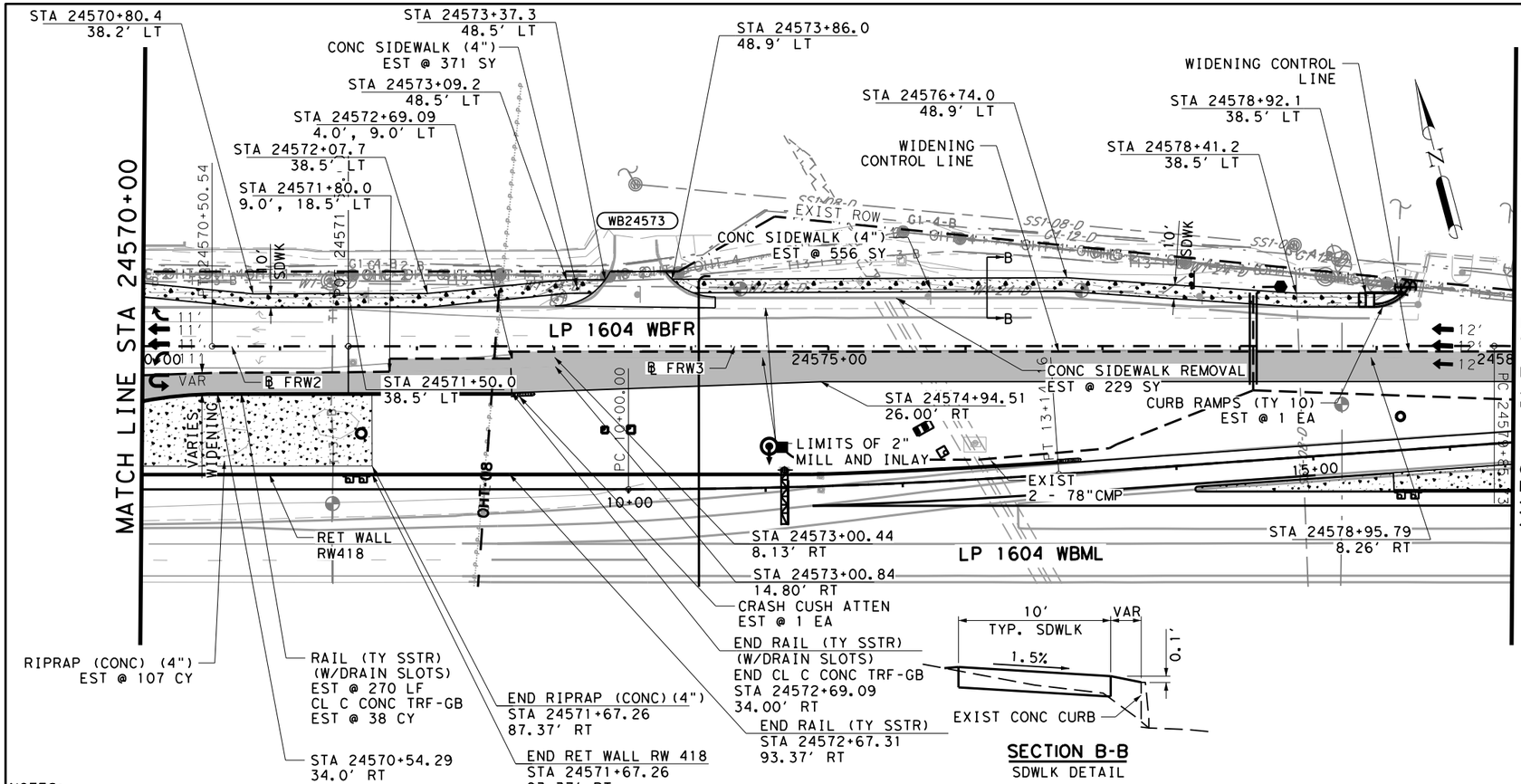
 Texas Department of Transportation

LP 1604
WBFR
PLAN AND PROFILE
STA 24560+00 TO STA 24570+00

SHEET 18 OF 24

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	883

4:33:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR18.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

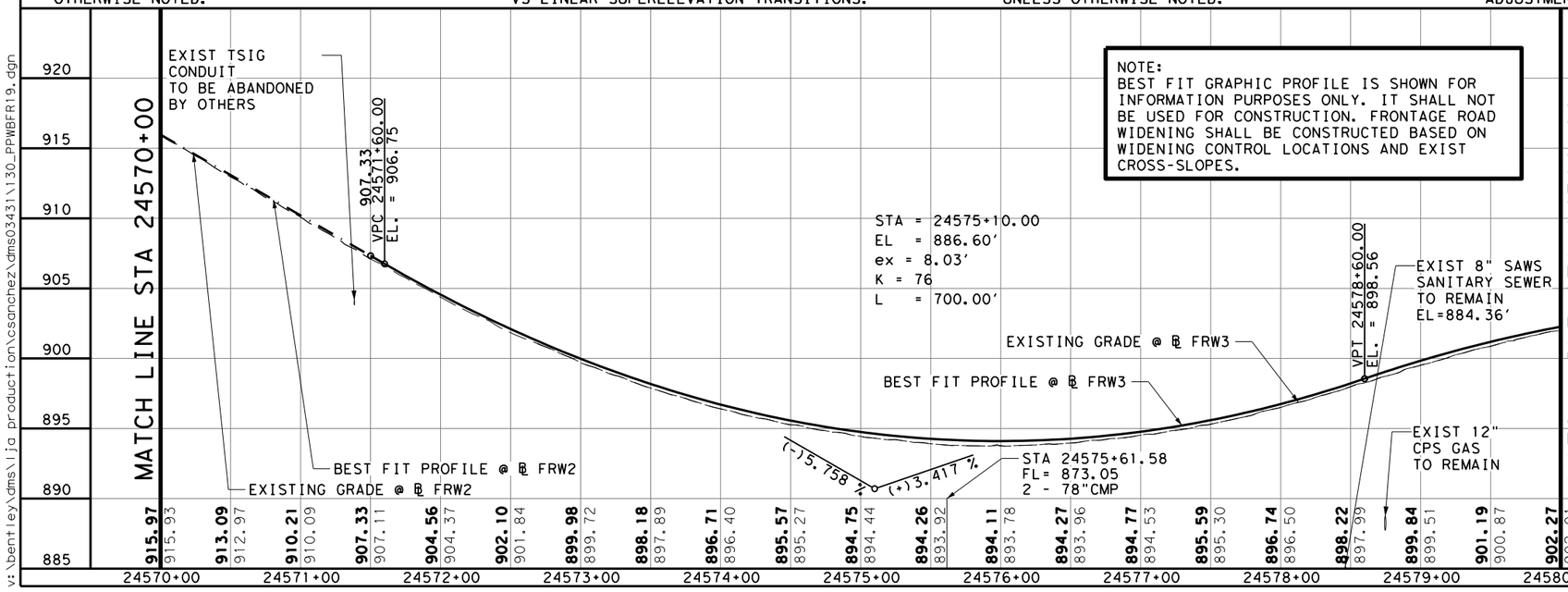
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	2374
0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	2406
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	687
0354	6045	PLANE ASPH CONC PAV (2")	SY	4435
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	38
0432	6001	RIPRAP (CONC) (4 IN)	CY	107
0450	6023	RAIL (TY SSTR)	LF	270
0531	6001	CONC SIDEWALKS (4")	SY	927
0531	6013	CURB RAMPS (TY 10)	EA	1
0545	6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	1
3076	6001	D-GR HMA TY-B PG 64-22	SY	2406
3076	6023	D-GR HMA TY-C PG70-22	SY	6912
3076	6066	TACK COAT	SY	6912
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	6872
3085	6001	UNDERSEAL COURSE	SY	13784

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

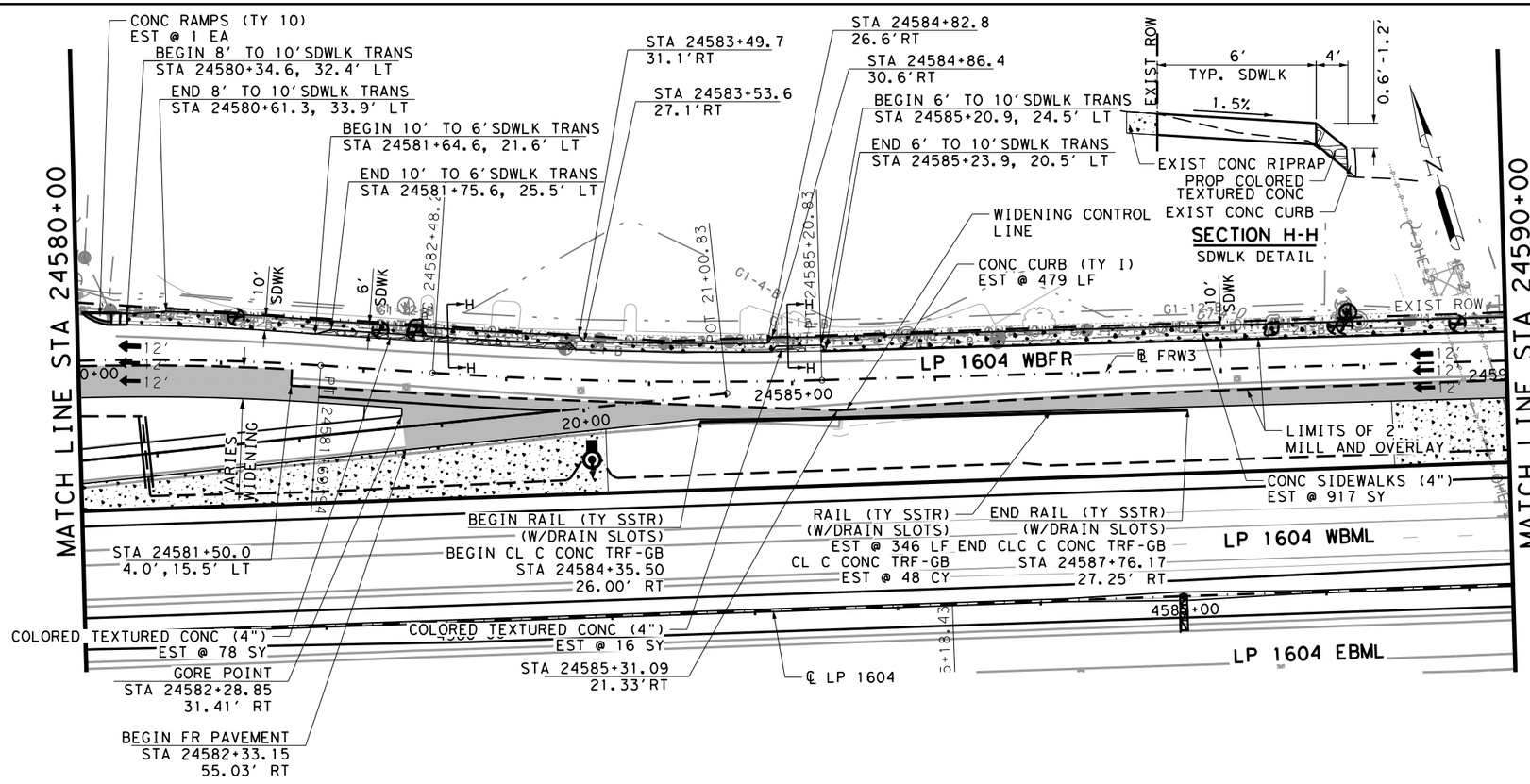
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24570+00 TO STA 24580+00

SHEET 19 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	884

4:34:05 PM 2/28/2023
v:\bentley\dms\lja_production\csanchez\dms03431\130_PPWBFR19.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

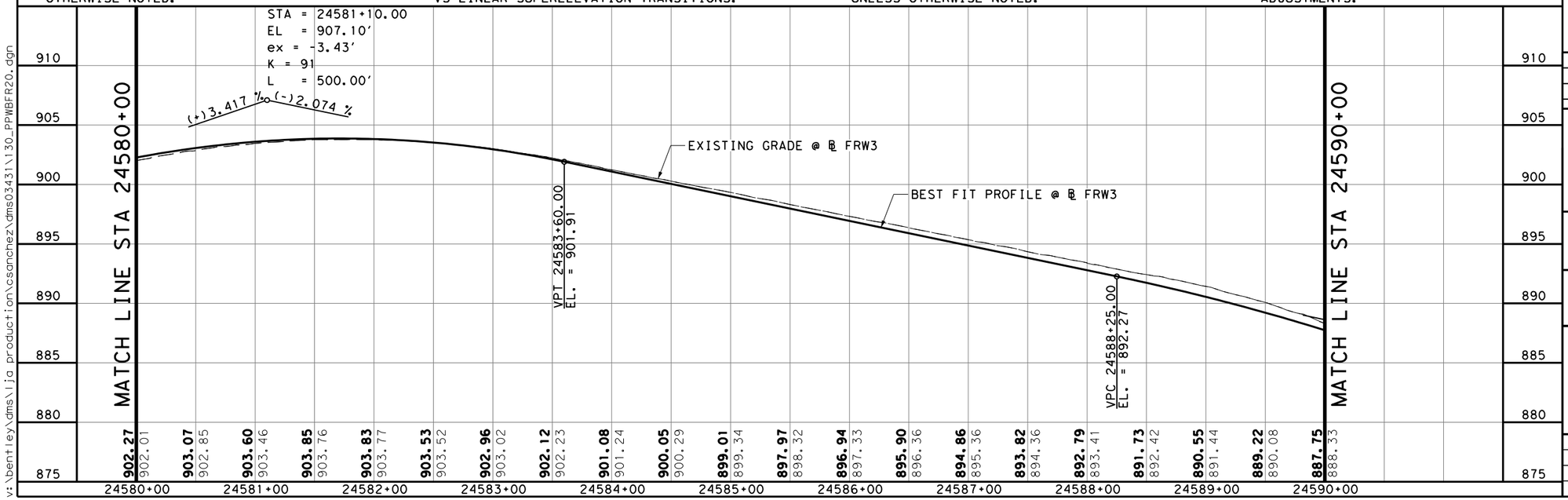
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	1487
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1523
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	574
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4192
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	48
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	346
	0529	6001	CONC CURB (TY I)	LF	479
	0531	6001	CONC SIDEWALKS (4")	SY	909
	0531	6013	CURB RAMPS (TY 10)	EA	1
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1523
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5782
*	3076	6066	TACK COAT	SY	5782
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5744
*	3085	6001	UNDERSEAL COURSE	SY	11526

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

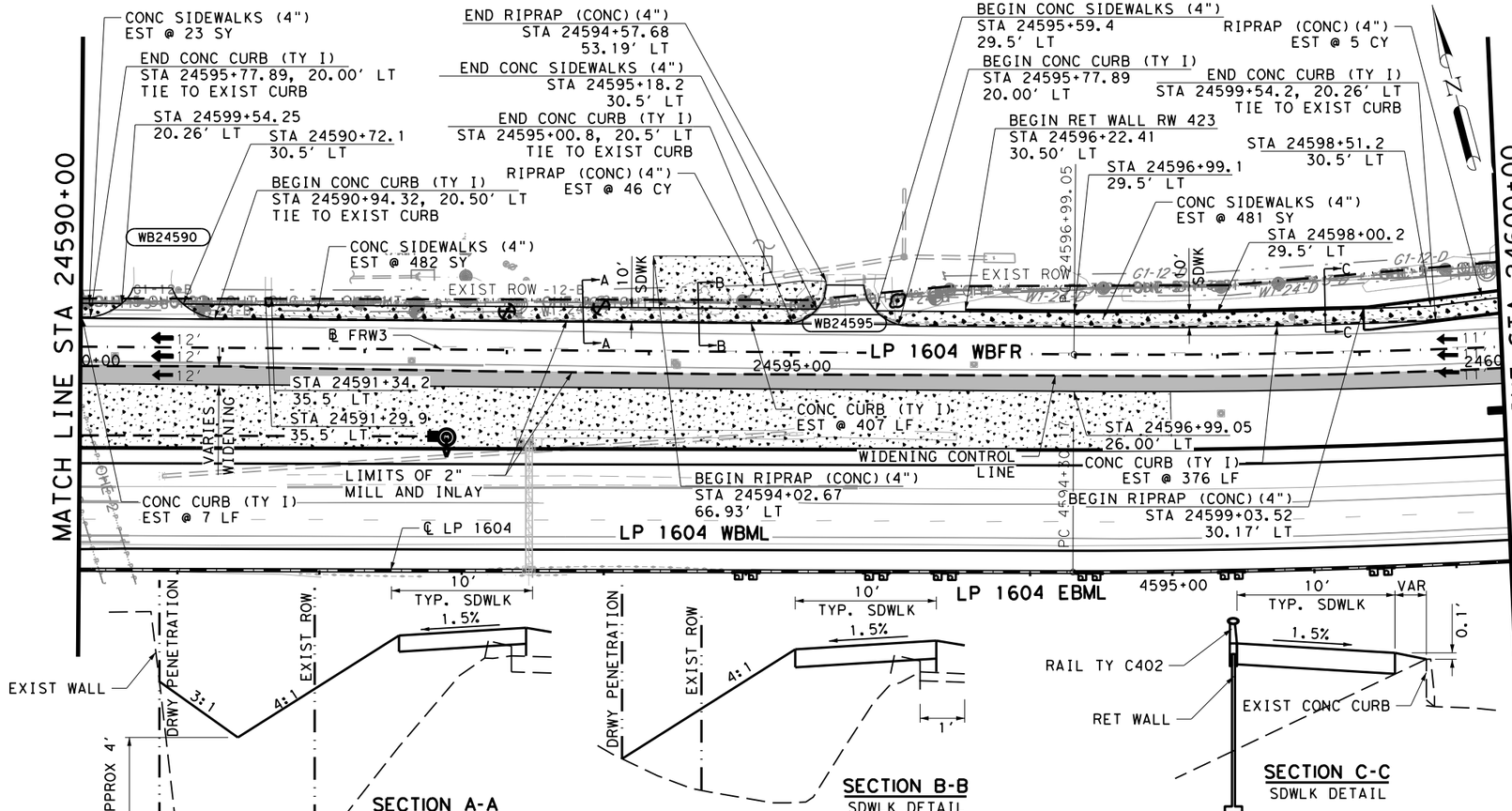
Texas Department of Transportation ©2023

LP 1604
WBFR
PLAN AND PROFILE
STA 24580+00 TO STA 24590+00

SHEET 20 OF 24

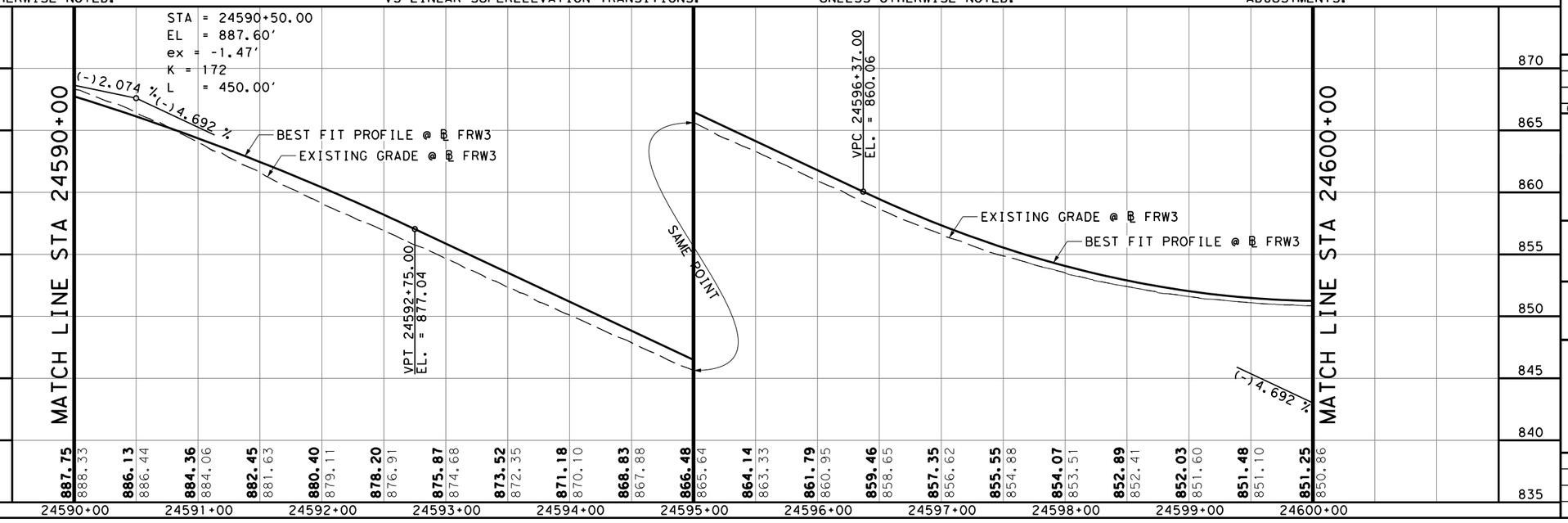
FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	885

2/28/2023 4:34:46 PM
v:\bentley\dms\lja production\csanchez\dms03431\l130_PPWBFR20.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- *S1-1-D* — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	1175
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1231
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	528
	0354	6045	PLANE ASPH CONC PAV (2")	SY	36480
	0432	6001	RIPRAP (CONC)(4 IN)	CY	46
	0529	6001	CONC CURB (TY I)	LF	783
	0531	6001	CONC SIDEWALKS (4")	SY	986
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1231
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5340
*	3076	6066	TACK COAT	SY	5340
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5284
*	3085	6001	UNDERSEAL COURSE	SY	10624

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

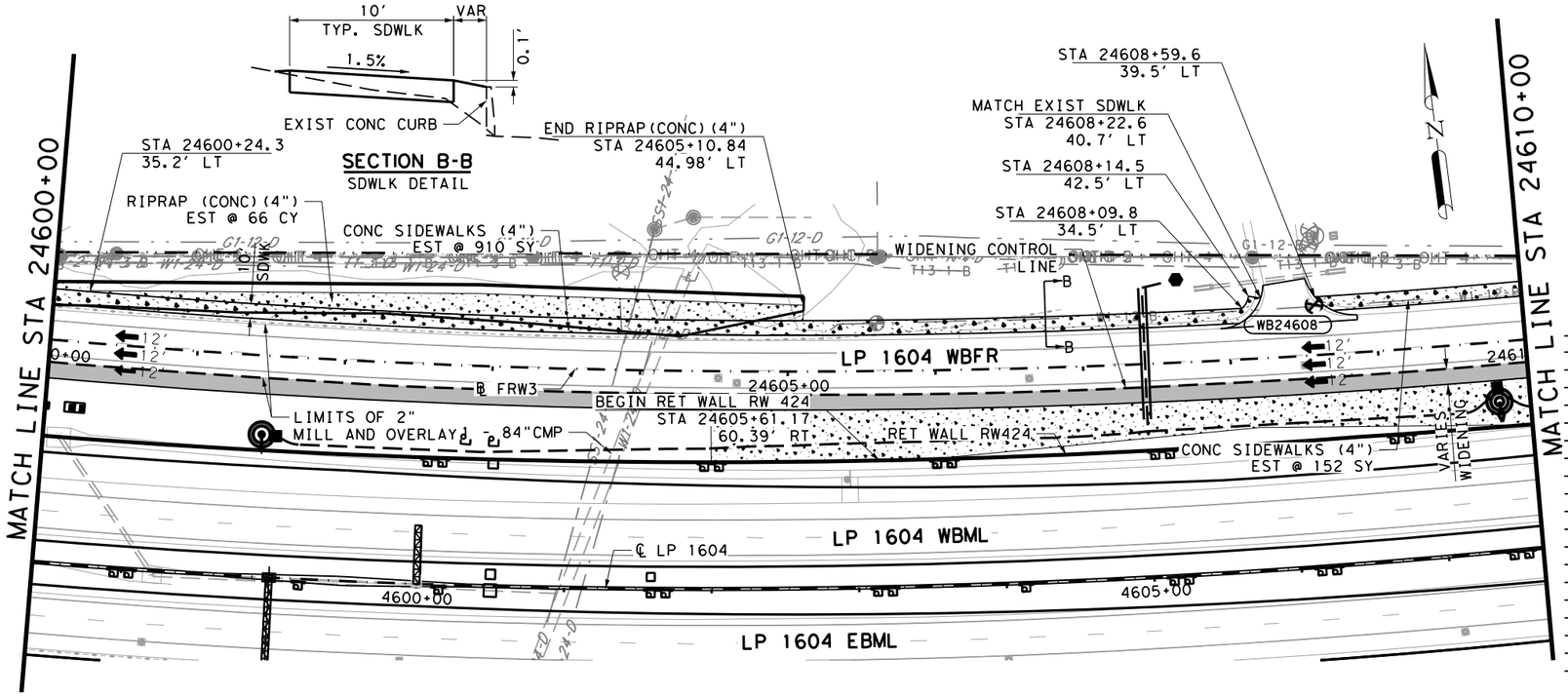
©2023 Texas Department of Transportation

LP 1604
WBFR
PLAN AND PROFILE
STA 24590+00 TO STA 24600+00

SHEET 21 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	886

4:35:31 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR21.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

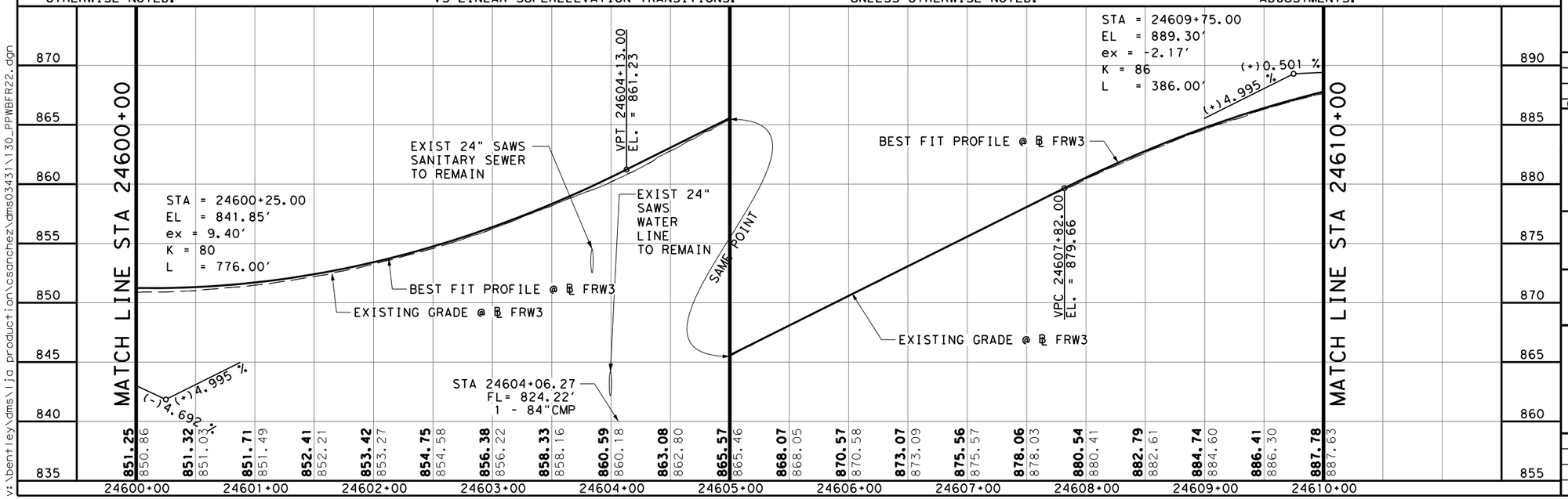
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	1110
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1165
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	530
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4138
	0432	6001	RIPRAP (CONC) (4 IN)	CY	66
	0531	6001	CONC SIDEWALKS (4")	SY	1062
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1165
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5359
*	3076	6066	TACK COAT	SY	5359
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5304
*	3085	6001	UNDERSEAL COURSE	SY	10663

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

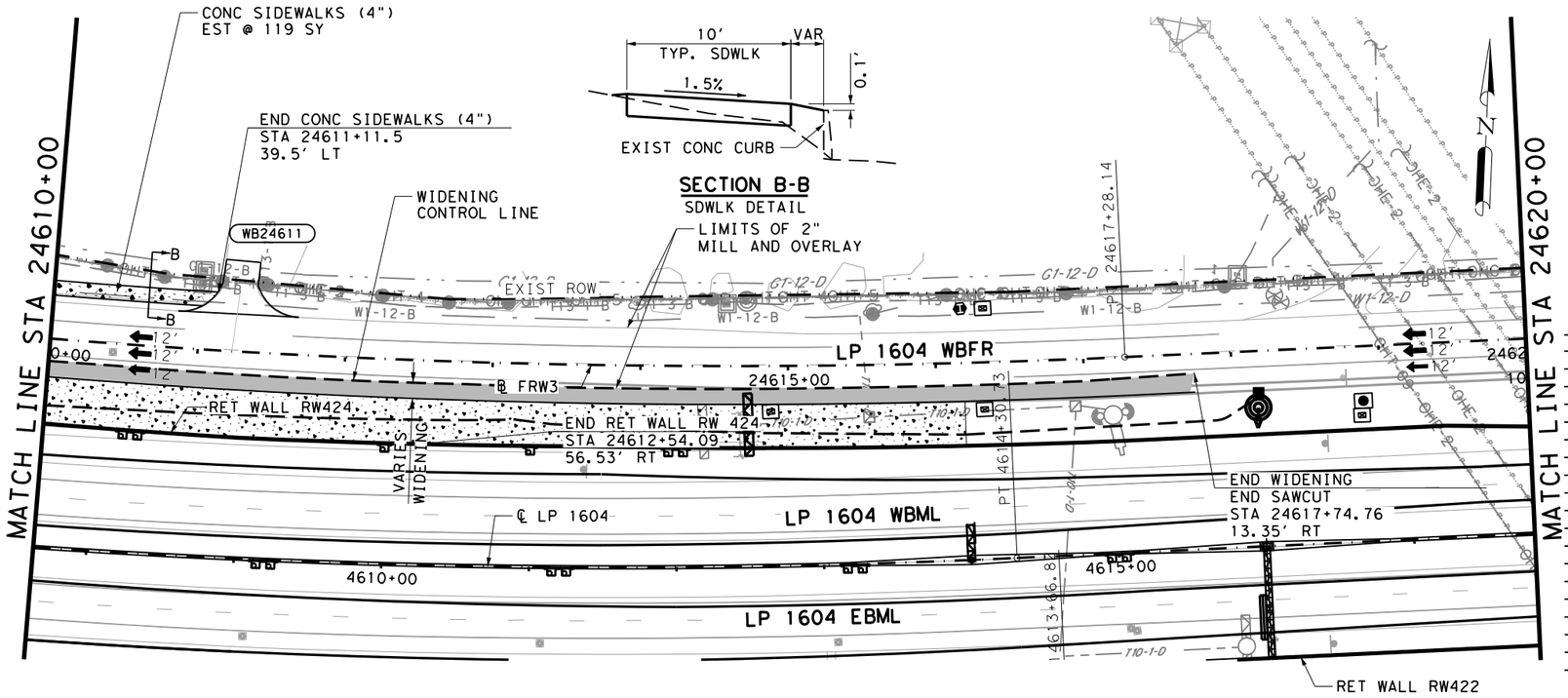
©2023 Texas Department of Transportation

LP 1604
WBFR
PLAN AND PROFILE
STA 24600+00 TO STA 24610+00

SHEET 22 OF 24

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	887

2/28/2023 4:36:11 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR22.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

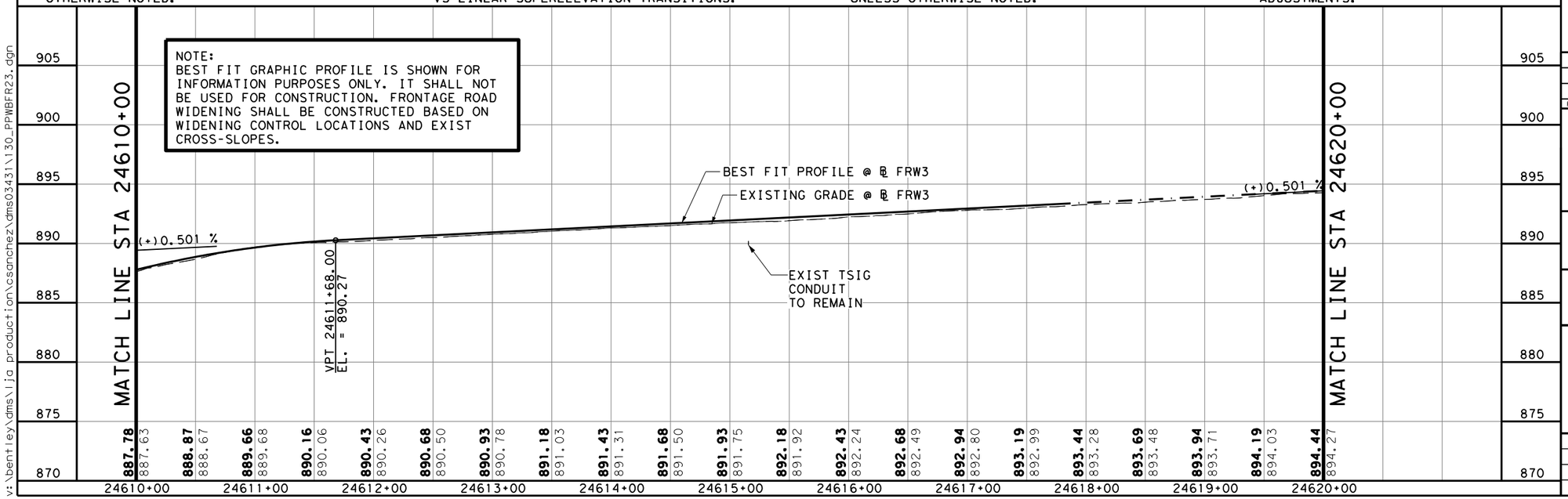
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP)(TY D GR 1-2, 5) FINAL POS	SY	880
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	923
	0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8"	SY	519
	0354	6045	PLANE ASPH CONC PAV (2")	SY	4269
	0531	6001	CONC SIDEWALKS (4")	SY	119
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	923
*	3076	6023	D-GR HMA TY-C PG70-22	SY	5235
*	3076	6066	TACK COAT	SY	5235
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	5192
*	3085	6001	UNDERSEAL COURSE	SY	10427

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

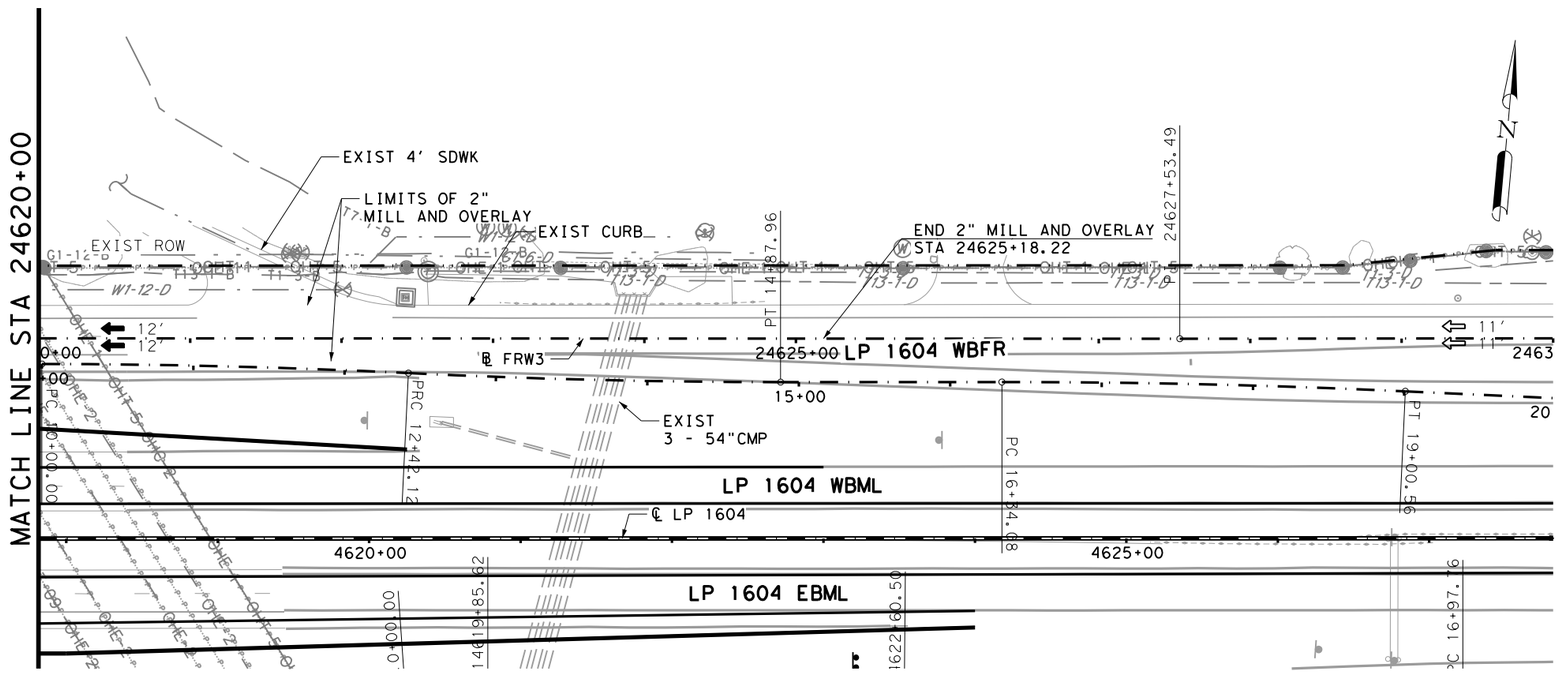
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24610+00 TO STA 24620+00

SHEET 23 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	888

4:36:52 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR23.dgn



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR (8")	SY	213
0354	6045	PLANE ASPH CONC PAV (2")	SY	2129
* 3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	2131
* 3085	6001	UNDERSEAL COURSE	SY	2131

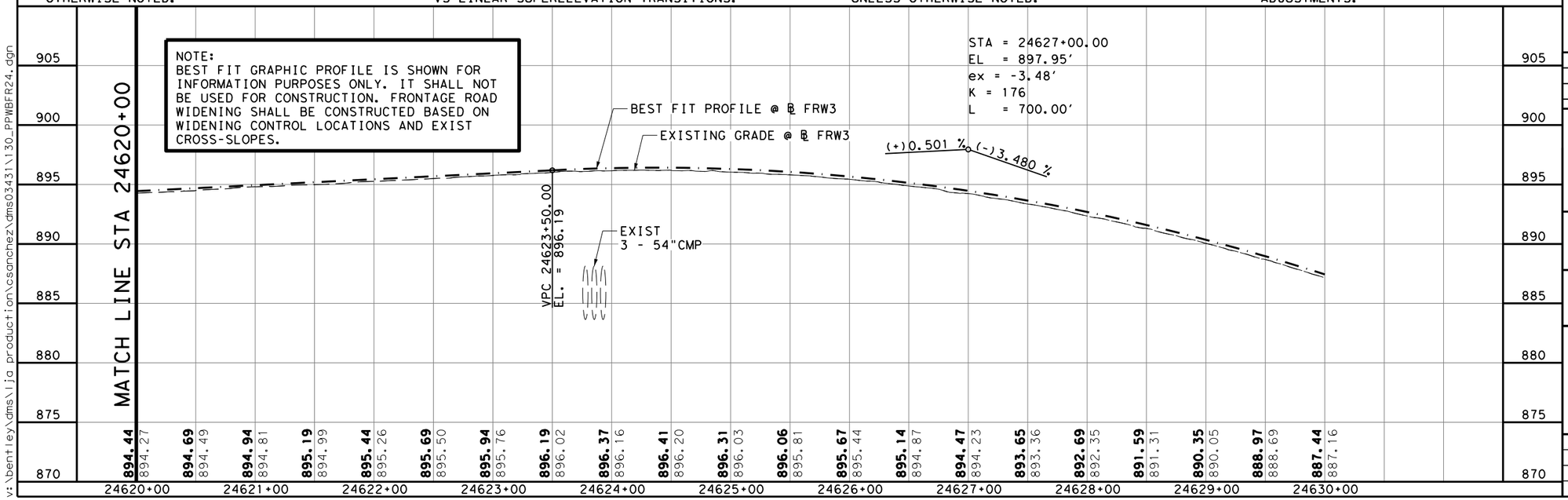
LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

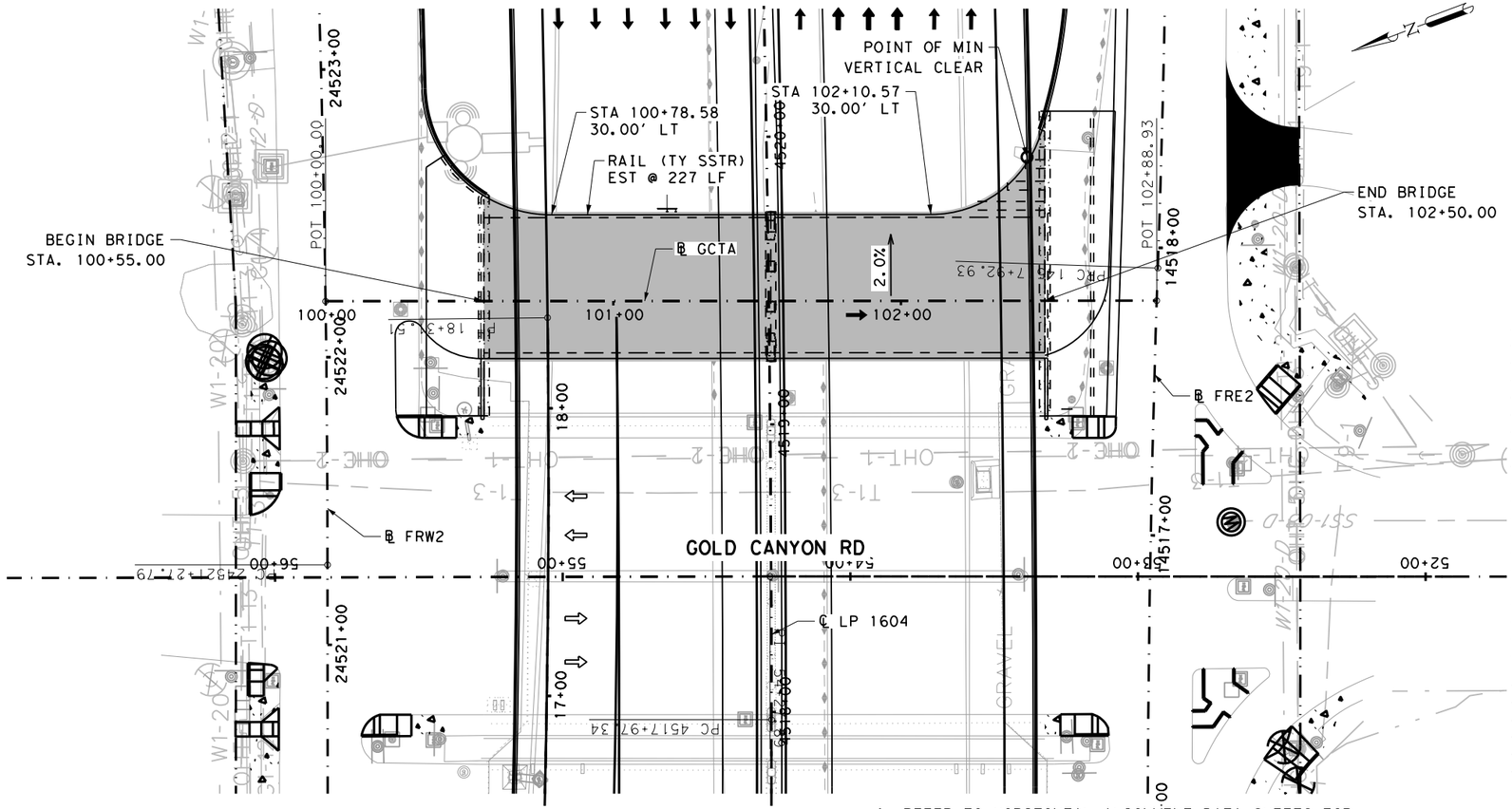
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WBFR
PLAN AND PROFILE
STA 24620+00 TO END PROJECT

SHEET 24 OF 24

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	889

4:37:32 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPWBFR24.dgn



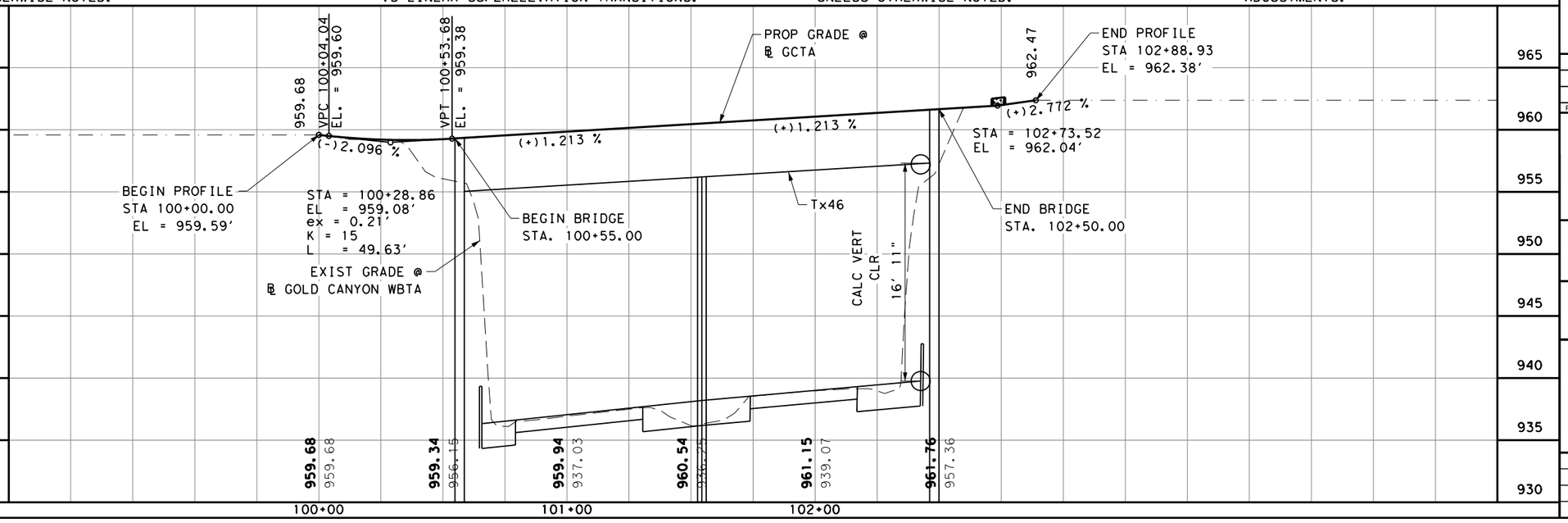
LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES, 101558, LICENSED PROFESSIONAL ENGINEER, STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, 84722, LICENSED PROFESSIONAL ENGINEER, STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

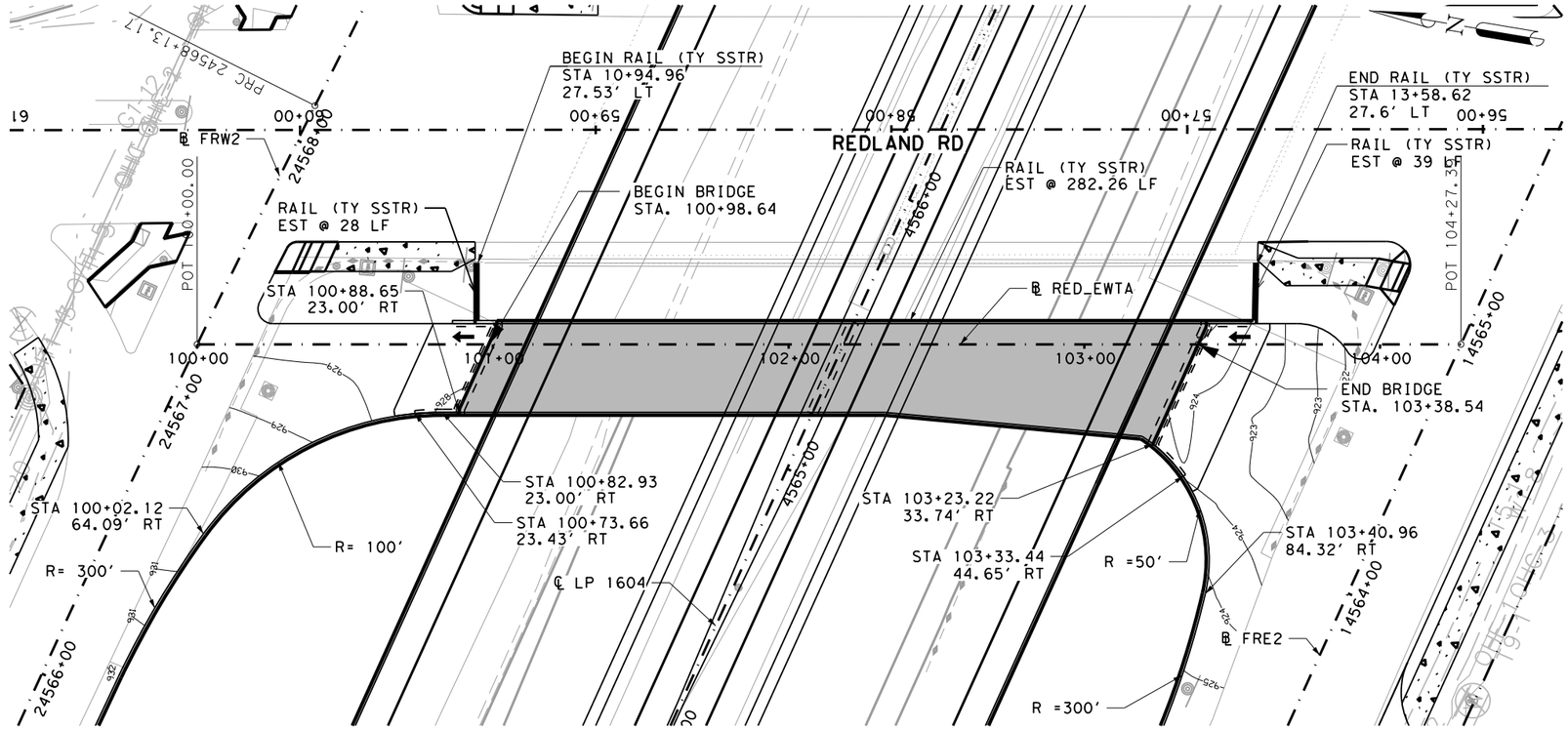
©2023 Texas Department of Transportation

LP 1604
GOLD CANYON RD
WB TO EB TURNAROUND
PLAN AND PROFILE

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	890

v:\bentley\dms\lja production\csanchez\dms03431\130_PPGLDCYNTA01.dgn
2/28/2023
4:38:11 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

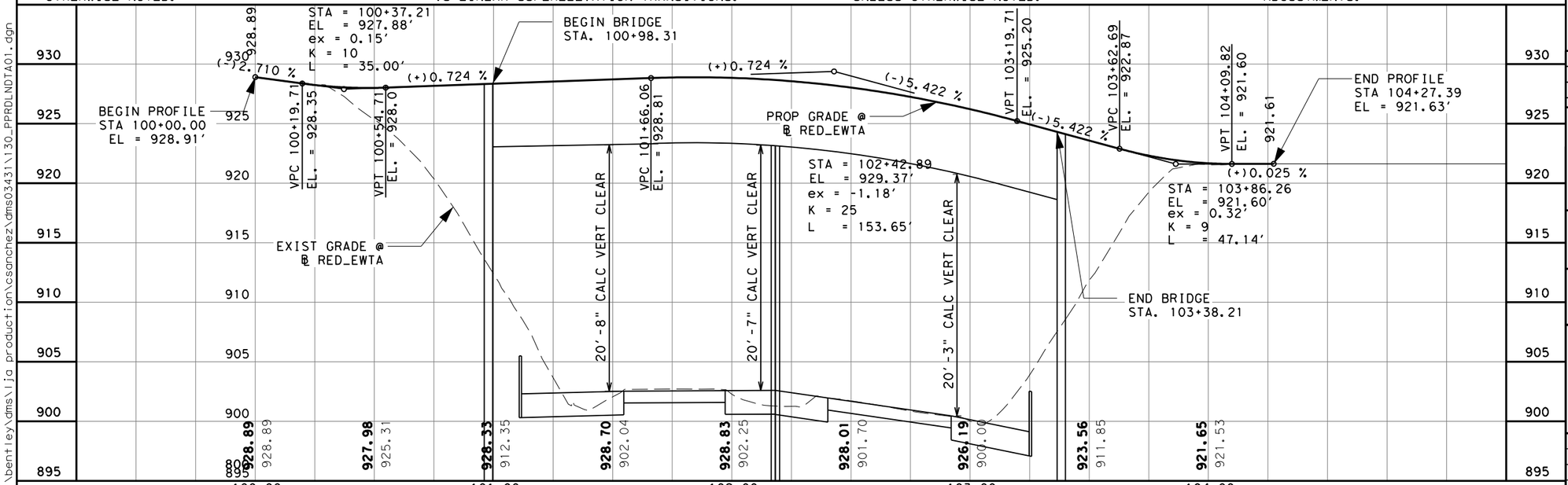
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



REV. NO.	DATE	DESCRIPTION	BY

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50' - HORZ
1"=10' - VERT

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

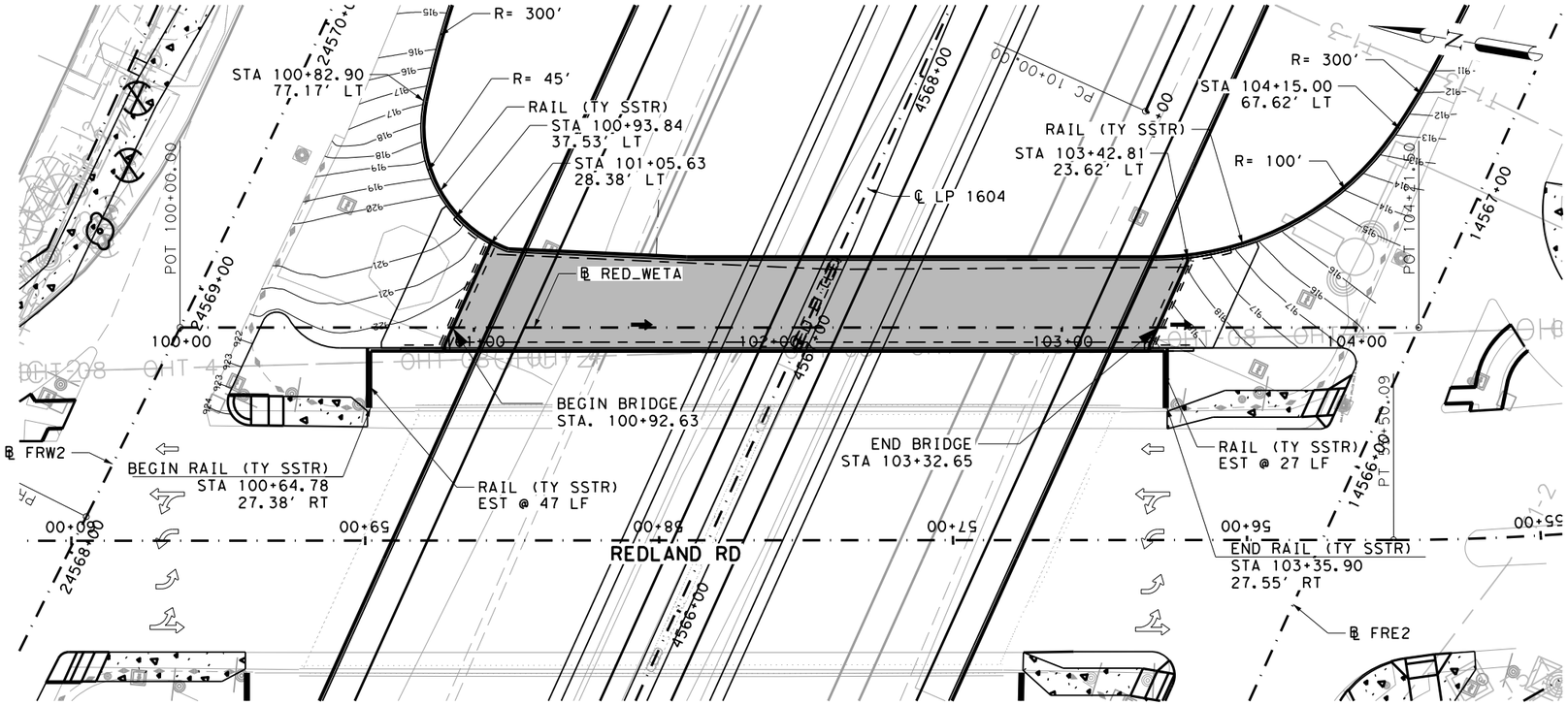
©2023 Texas Department of Transportation

LP 1604
REDLAND RD
EB TO WB TURNAROUND
PLAN AND PROFILE

SHEET 1 OF 1

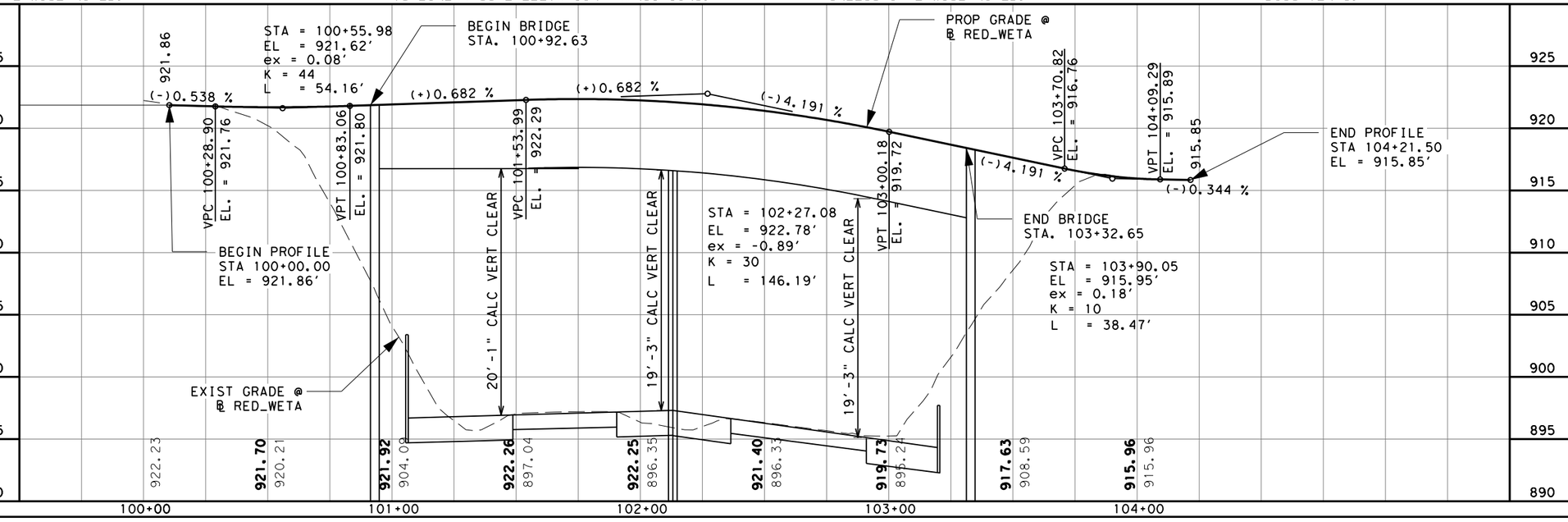
FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	891

4:38:51 PM 2/28/2023
v:\bentley\dms\ja production\csanchez\dms03431\130_PPRDLNDTA01.dgn



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023

0' 25' 50'

SCALE: 1"=50'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

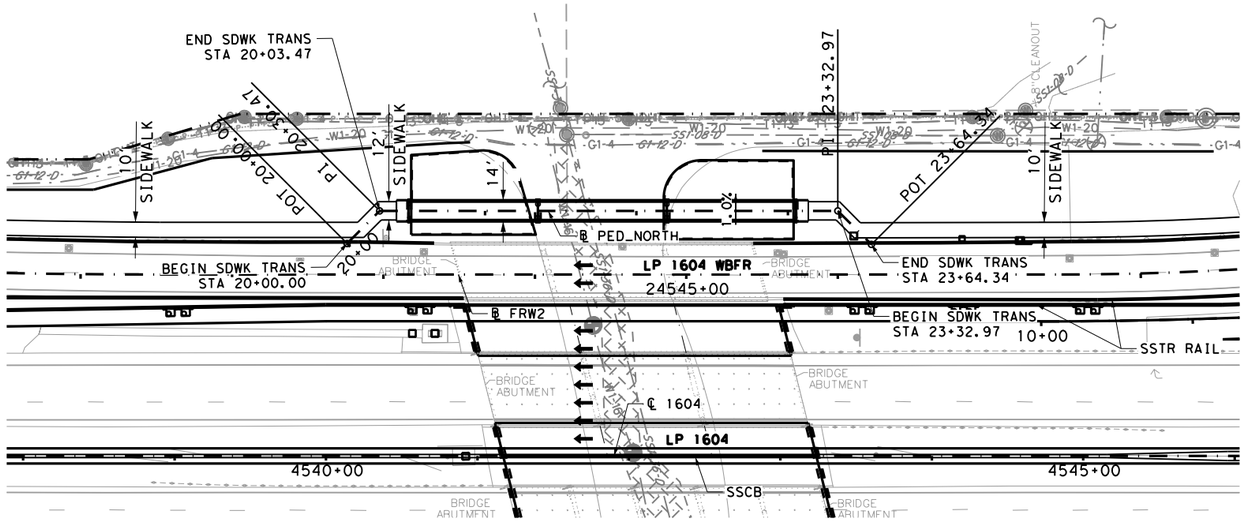
©2023 Texas Department of Transportation

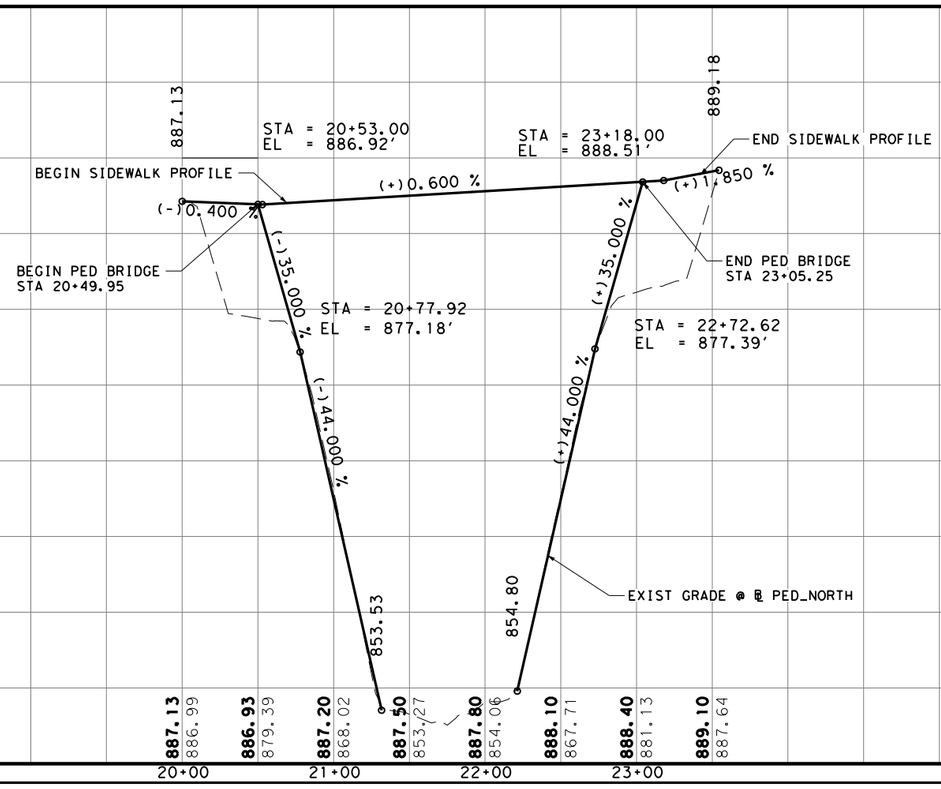
LP 1604
REDLAND RD
WB TO EB TURNAROUND
PLAN AND PROFILE

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	892

2/28/2023
4:39:29 PM
v:\bentley\dms\lja_production\csanchez\dms03431\130_PPRDLNDTA02.dgn





LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE

- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- *S1-1-D* — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

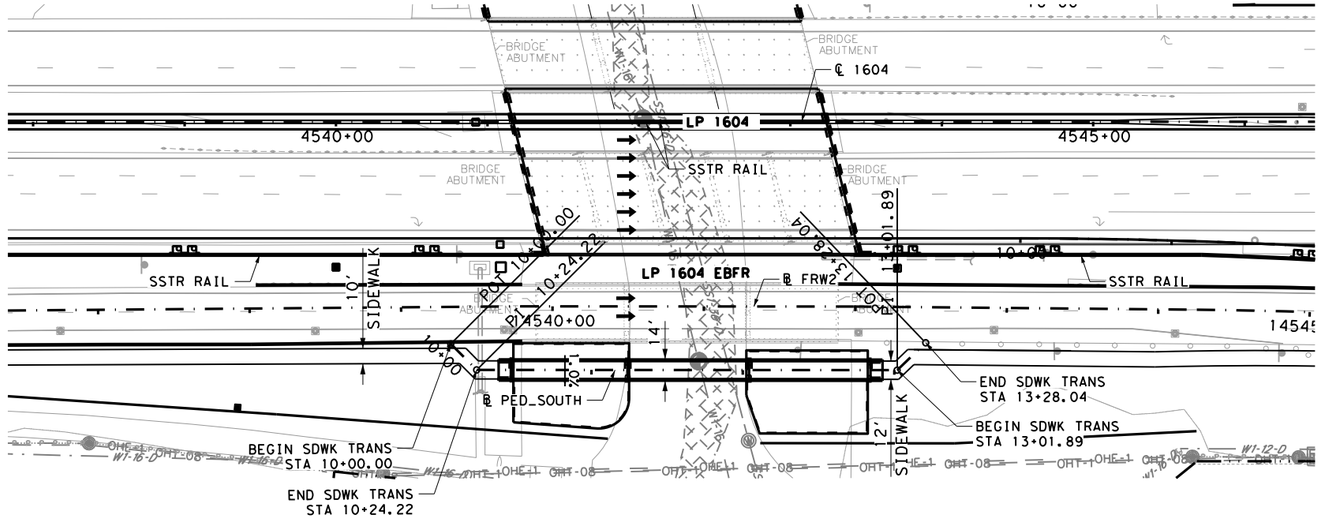
LP 1604

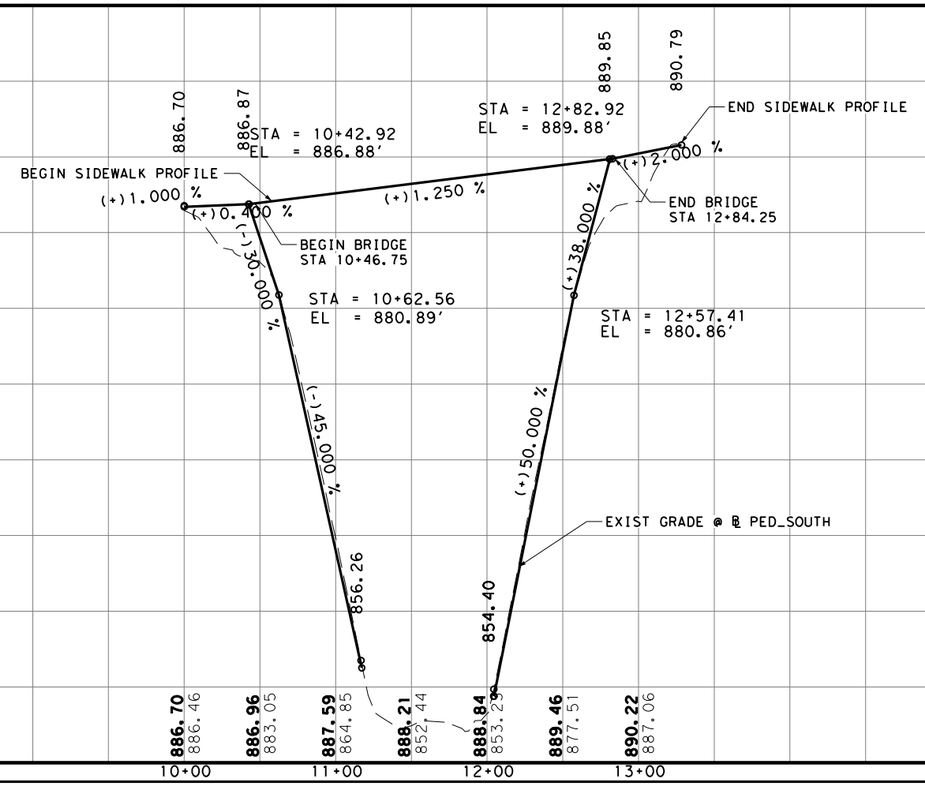
WB PEDESTRIAN BRIDGE AT MUD CREEK

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	893

4:40:09 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PEDNORTH.dgn





LEGEND:

EXIST ROW	T1-XX — AT&T - D(IN)
EXIST DRN ESMNT	T4-1 — CENTURYLINK
WIDENING CONTROL LINE	T5-1 — CHARTER-SPECTRUM
EXIST TRF FLOW	T7-1 — GRANDE
PROP TRF FLOW	T8-1 — CONTERRA
PROP CONCRETE	T9-1 — MCI-VERIZON
COLOR TEXTURED CONC (4")	T10-1 — TXDOT TRANSGUIDE
PROP WIDENING/ RECONSTRUCTION	T11-1 — FIBERLIGHT
WETLANDS	T13-1 — ZAYO
OHWM	SI-1-D — TXDOT SIGNALS
XXX-X CURVE ID LABEL	OHT-1 — CHARTER-SPECTRUM
XXXXX DRIVEWAY ID	OHC-3 — AT&T
TEST HOLE LOCATION	OHT-4 — GRANDE
SURVEYED ENVRNMNTL SENSITIVE FEATURE	OHT-5 — CENTURYLINK
	OHT-06 — CONTERRA
	OHT-07 — ZAYO
	OHT-09 — CPS
	OHT-10 — FIBERLIGHT
	OHE-1 — CPS ENERGY
	OHE-2 — CPS ENERGY (TRANSMISSION)
	E1-1 — CPS ENERGY
	E2 — TXDOT
	W1-XX — SAWS WATER-D(IN)
	SS1-XX — SAWS SAN SWR-D(IN)
	G1-XX — CPS ENERGY-D(IN)
	G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

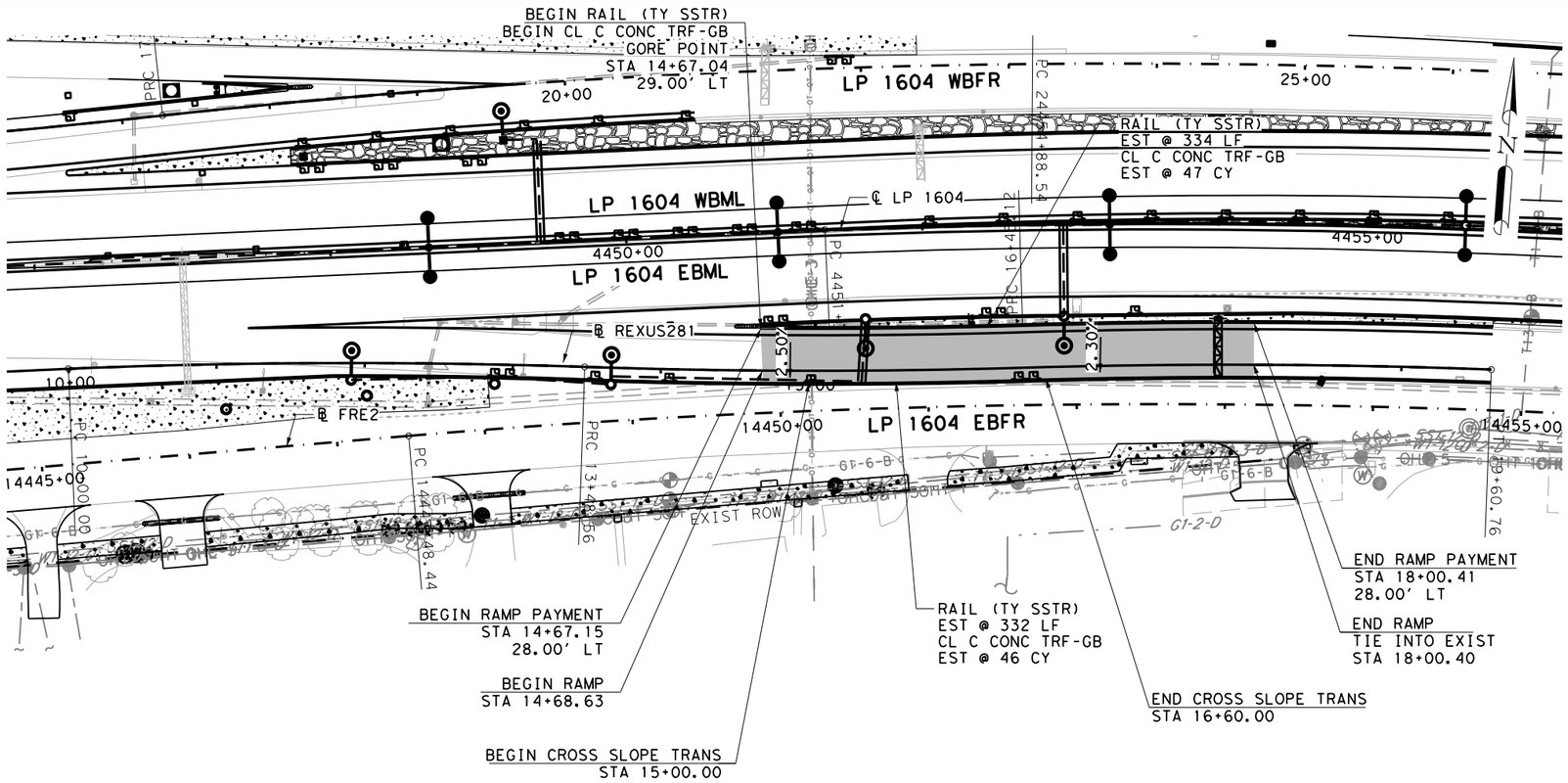
LP 1604

EB PEDESTRIAN BRIDGE AT MUD CREEK

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	894

4:40:47 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PEDSOUTH.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

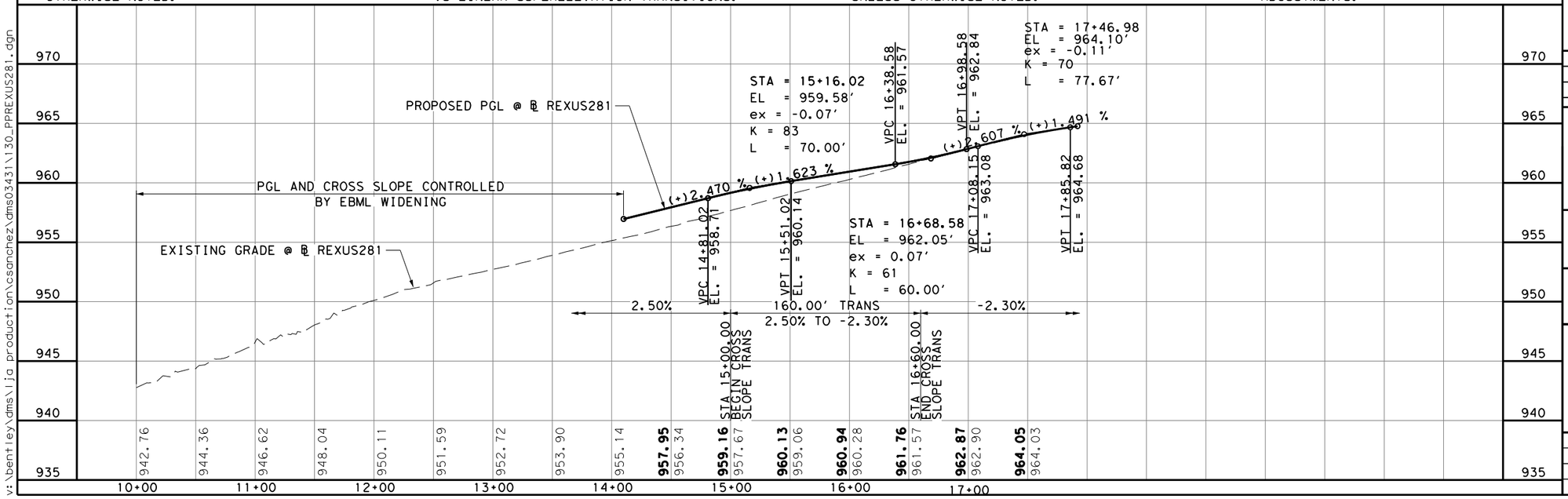
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	1329
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1329
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	93
	0450	6023	RAIL (TY SSTR)	LF	666
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1329
*	3076	6023	D-GR HMA TY-C PG70-22	SY	1329
*	3076	6066	TACK COAT	SY	2658
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	1329
*	3085	6001	UNDERSEAL COURSE	SY	2658

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

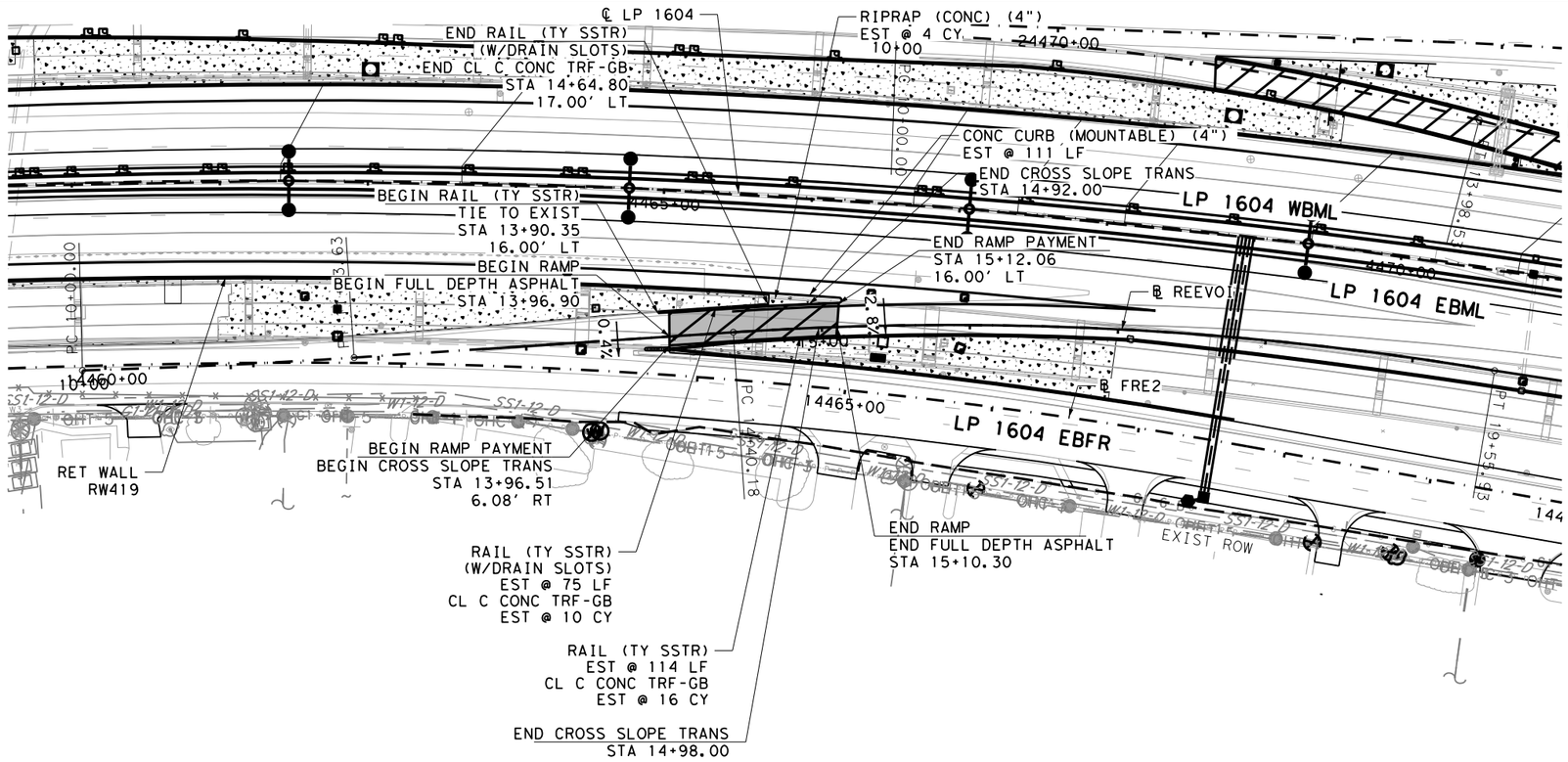
EB EXIT RAMP TO US281

PLAN AND PROFILE

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	895

4:41:39 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPREXUS281.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

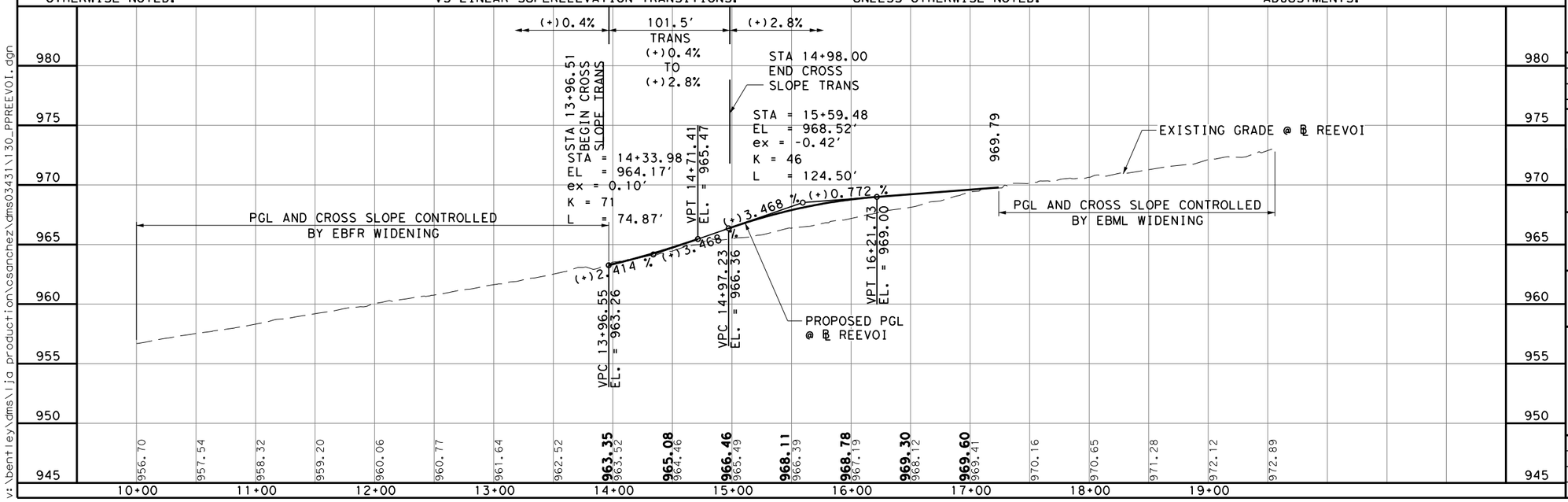
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	26
	0432	6001	RIPRAP (CONC)(4 IN)	CY	4
	0450	6023	RAIL (TY SSTR)	LF	114
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	75
	0529	6001	CONC CURB (TY I)	LF	111
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	280
*	3076	6023	D-GR HMA TY-C PG70-22	SY	280
*	3076	6066	TACK COAT	SY	280
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	280
*	3085	6001	UNDERSEAL COURSE	SY	561

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

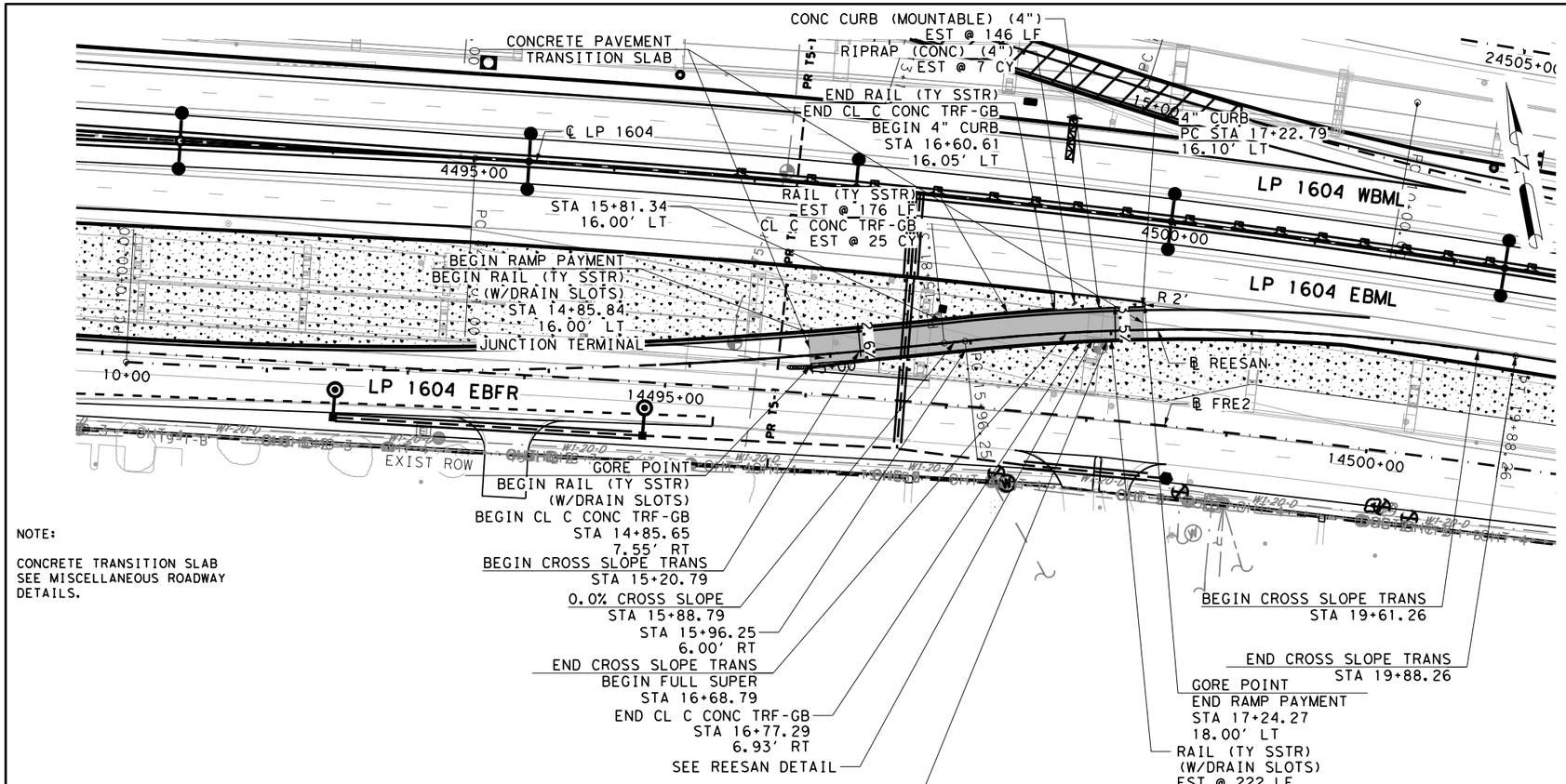
LP 1604

EB ENTRANCE RAMP FROM VOIGT DR

PLAN AND PROFILE

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	PROJECT NO.				HIGHWAY NO.
6	TEXAS					LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.		SHEET NO.
SAT	BEXAR	2452	02	130, ETC		

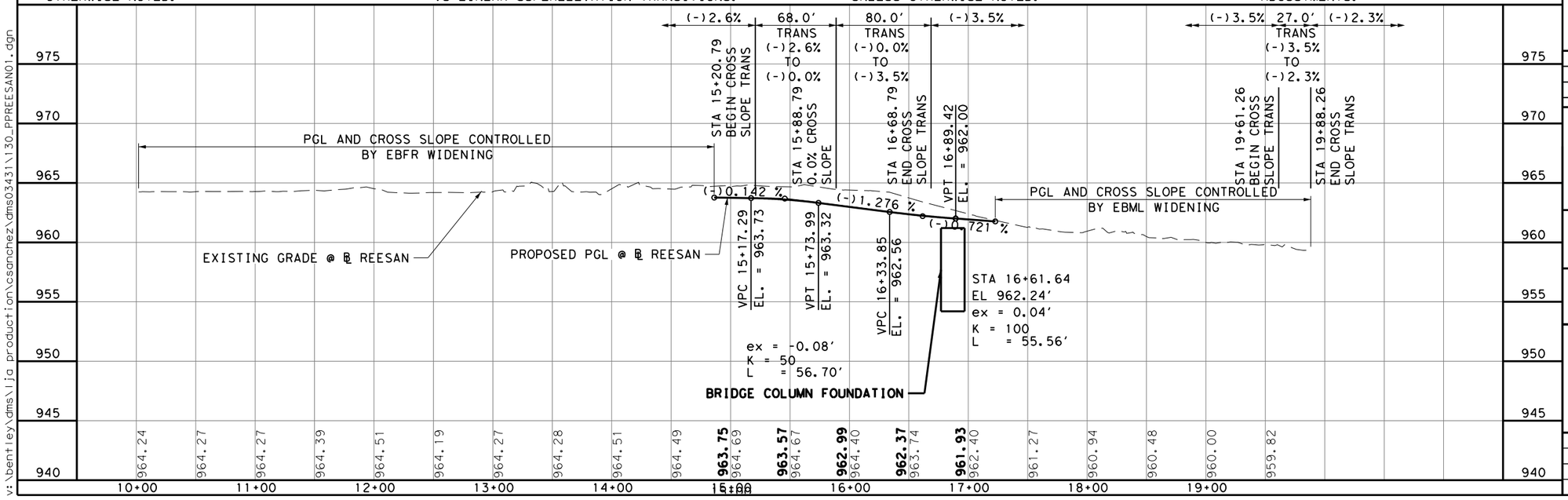


NOTE:

CONCRETE TRANSITION SLAB
SEE MISCELLANEOUS ROADWAY
DETAILS.

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0360	6003	CONC PVMT (CONT REINF - CRCP) (9")	SY	8
*	0360	6007	CONC PVMT (CONT REINF - CRCP) (13")	SY	573
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	56
	0432	6001	RIPRAP (CONC) (4 IN)	CY	7
	0450	6023	RAIL (TY SSTR)	LF	176
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	222
	0529	6001	CONC CURB (TY I)	LF	146
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	573

* FOR CONTRACTOR'S INFORMATION ONLY

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

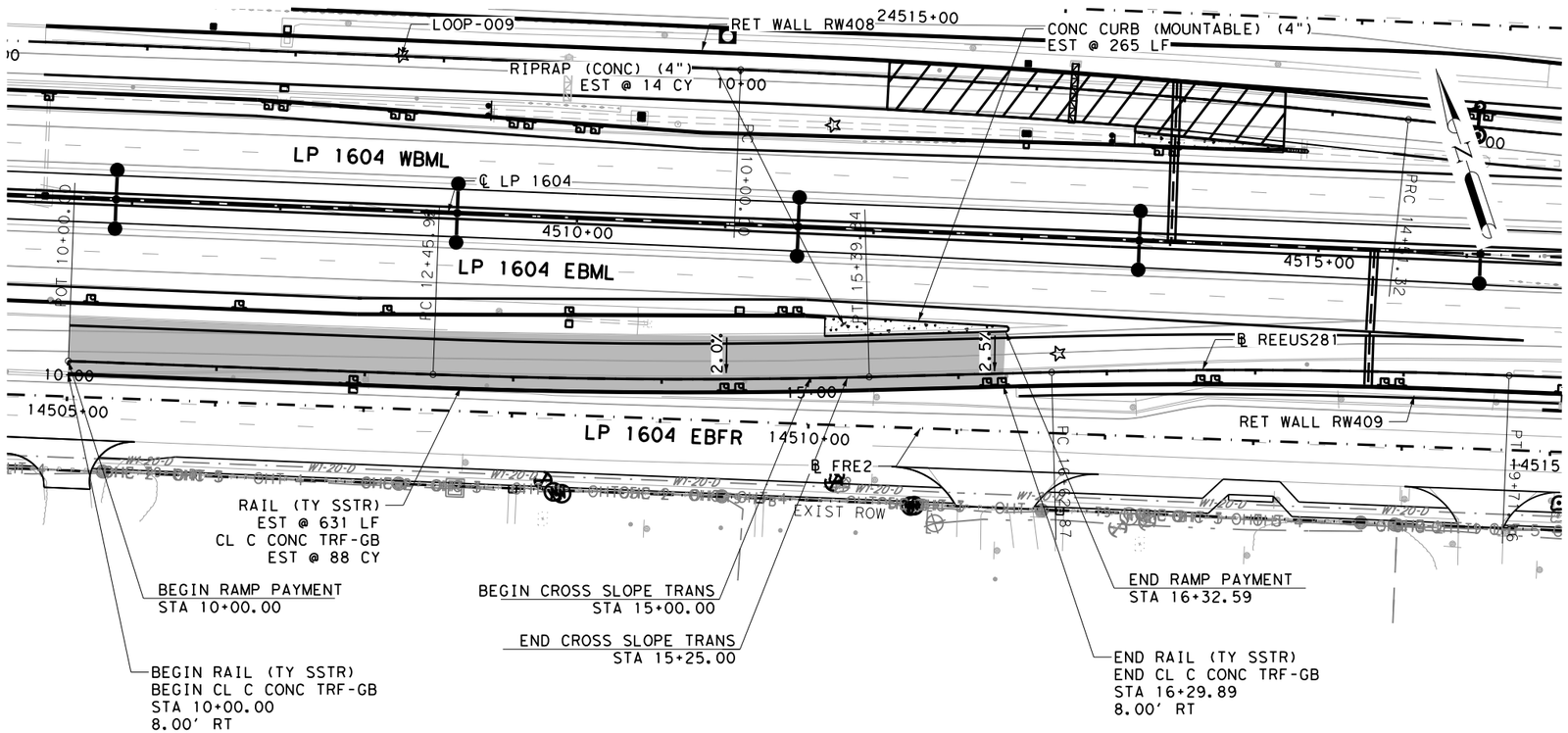
©2023 Texas Department of Transportation

LP 1604
EB ENTRANCE RAMP
FROM SAN PEDRO AVE
PLAN AND PROFILE

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	897

v:\bentley\dms\lja production\csanchez\dms03431\130_PPREESAN01.dgn
2/28/2023
4:43:03 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

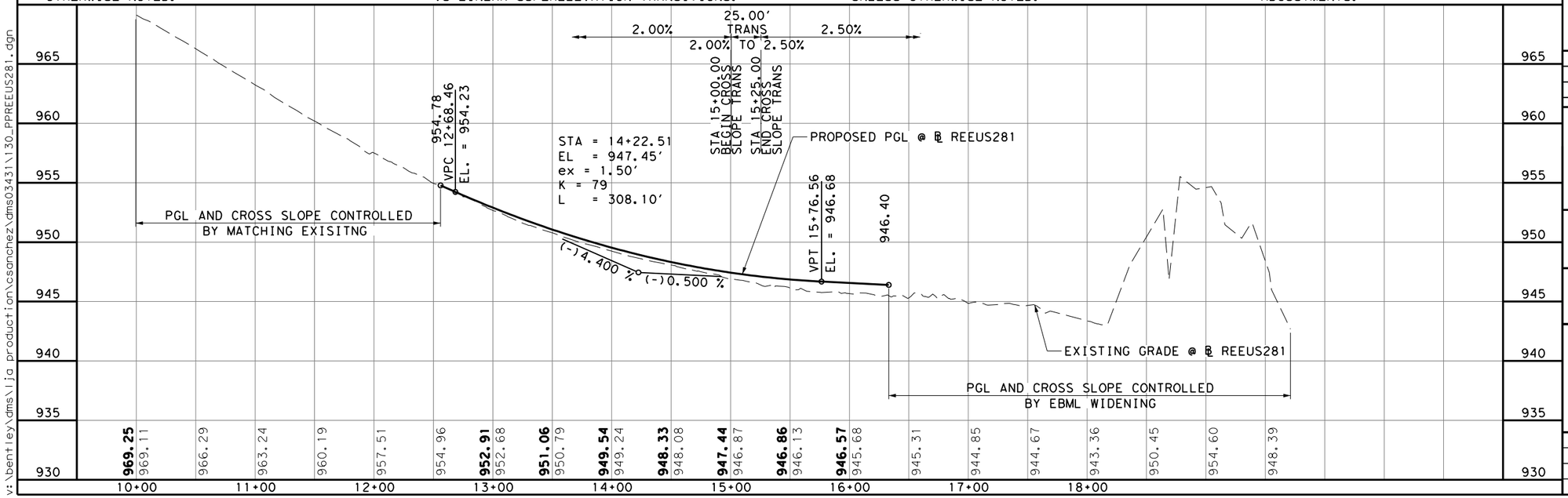
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	2596
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	2596
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	88
	0432	6001	RIPRAP (CONC) (4 IN)	CY	14
	0450	6023	RAIL (TY SSTR)	LF	631
	0529	6001	CONC CURB (TY I)	LF	265
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	2596
*	3076	6023	D-GR HMA TY-C PG70-22	SY	2596
*	3076	6066	TACK COAT	SY	5192
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	2596
*	3085	6001	UNDERSEAL COURSE	SY	5192

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

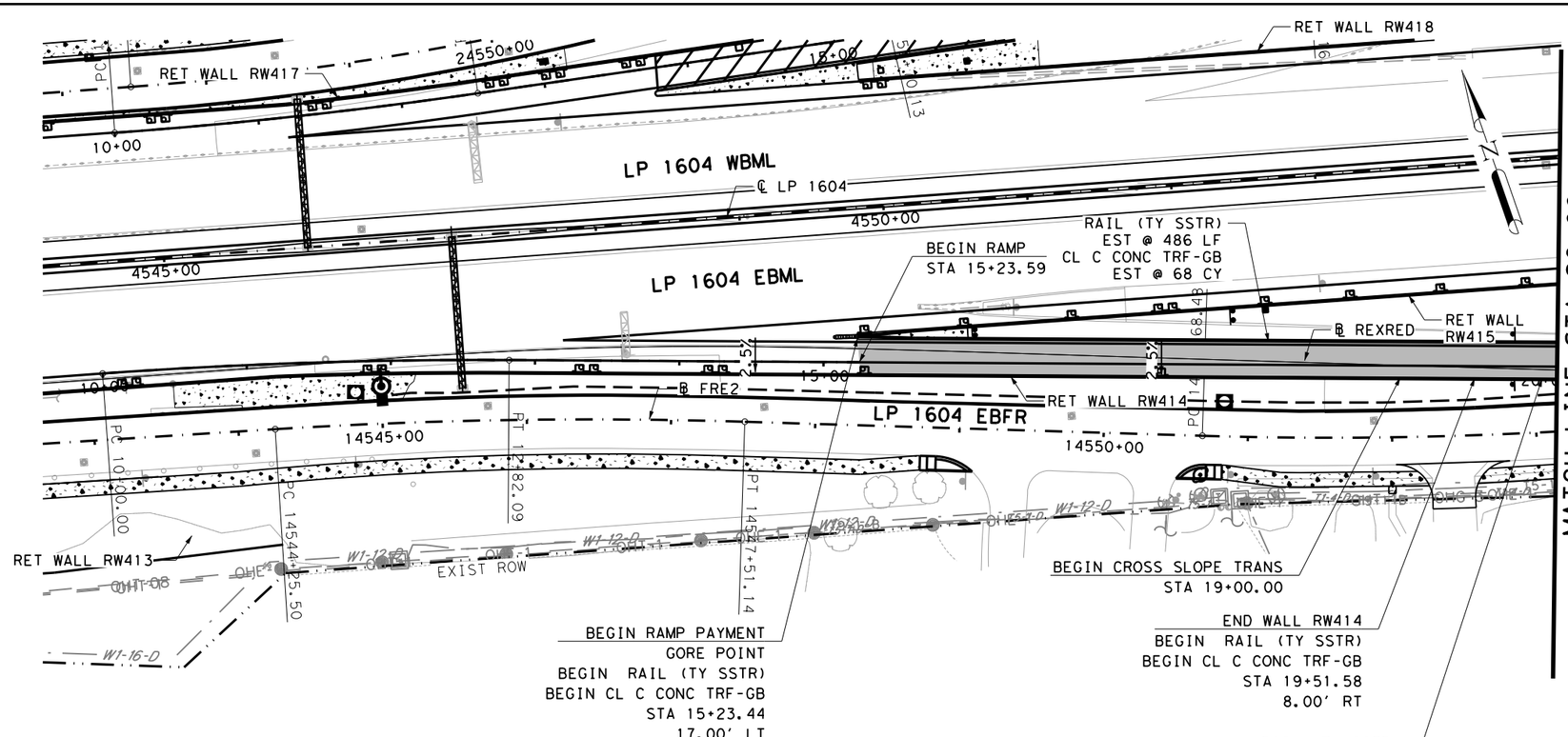
©2023 Texas Department of Transportation

LP 1604
EB ENTRANCE RAMP FROM US281
PLAN AND PROFILE

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	898

v:\bentley\dms\lja production\csanchez\dms03431\130_PPREEUS281.dgn
2/28/2023 4:43:43 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

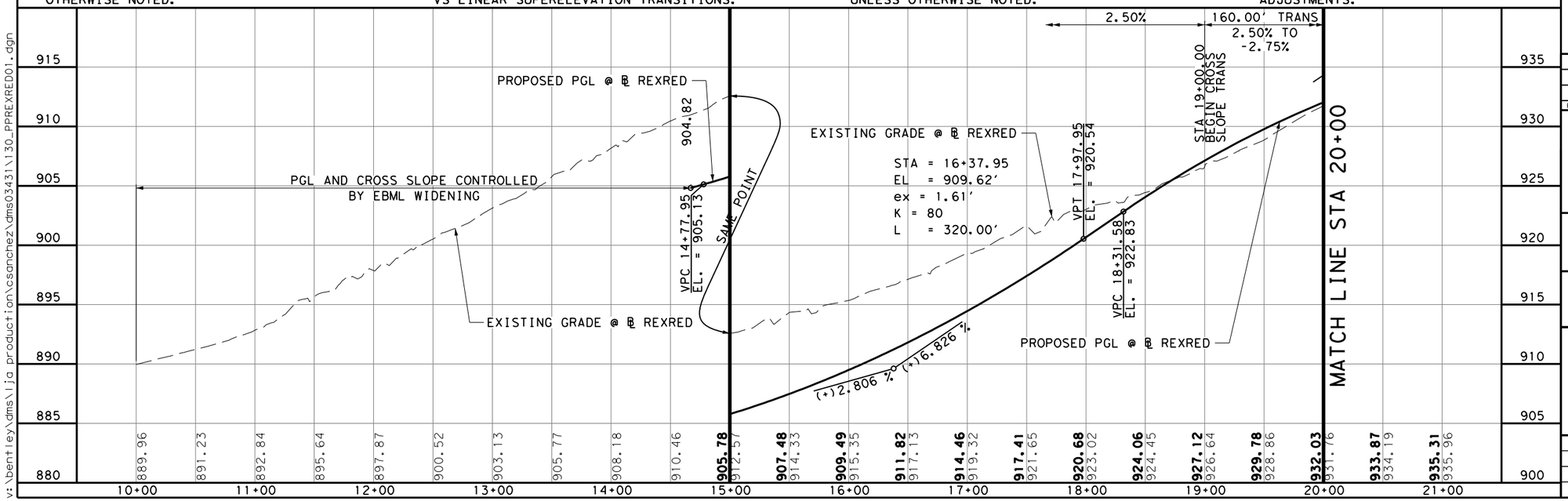
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	1291
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1291
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	76
	0450	6023	RAIL (TY SSTR)	LF	543
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1291
*	3076	6023	D-GR HMA TY-C PG70-22	SY	1291
*	3076	6066	TACK COAT	SY	2582
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	1291
*	3085	6001	UNDERSEAL COURSE	SY	2582

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

 Texas Department of Transportation

LP 1604

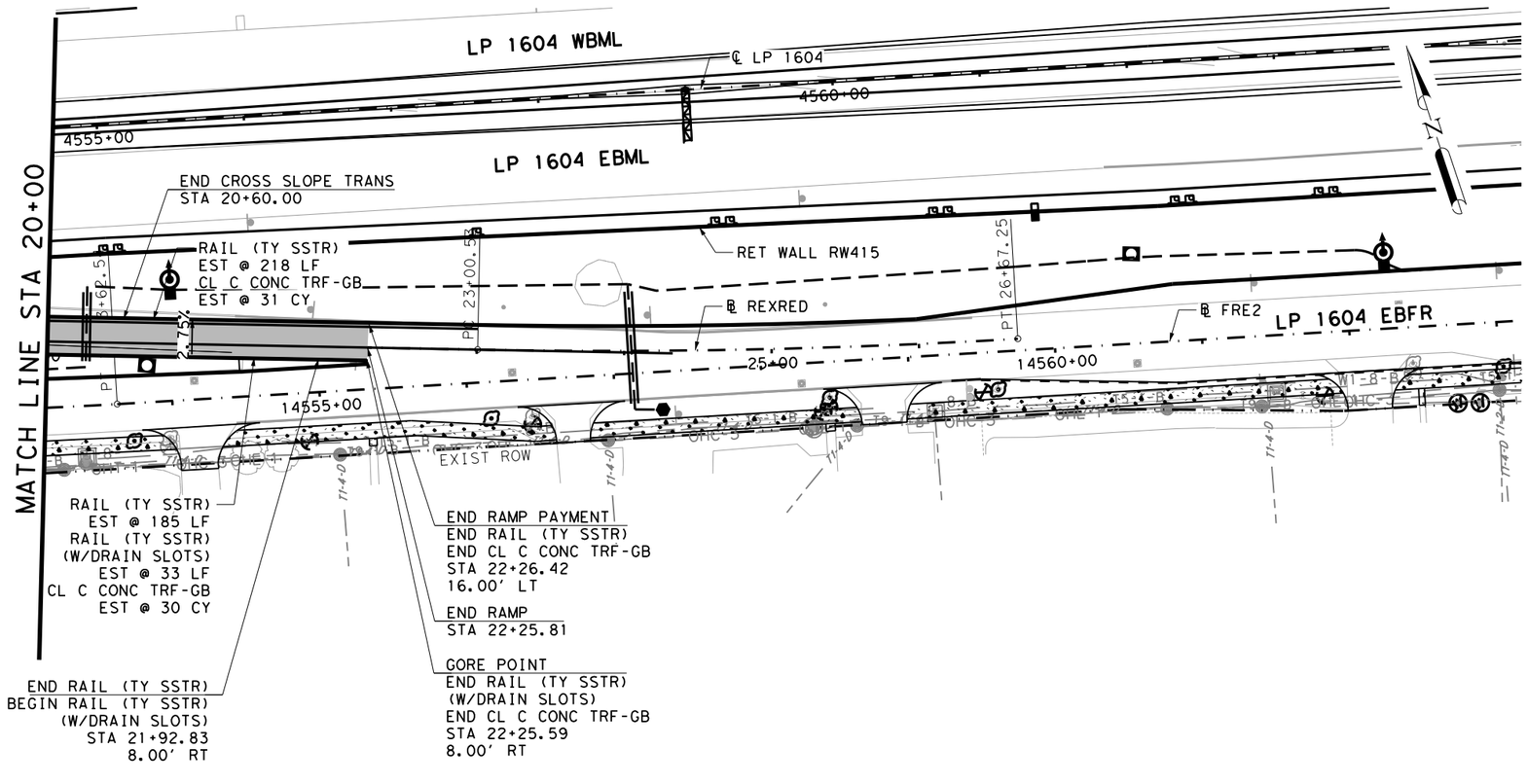
EB EXIT RAMP TO REDLAND RD

PLAN AND PROFILE

SHEET 1 OF 2

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	899

v:\bentley\dms\lja production\csanchez\dms03431\130_PPREXRED01.dgn
2/28/2023 4:44:28 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	580
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	580
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	61
	0450	6023	RAIL (TY SSTR)	LF	403
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	33
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	580
*	3076	6023	D-GR HMA TY-C PG70-22	SY	580
*	3076	6066	TACK COAT	SY	1160
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	580
*	3085	6001	UNDERSEAL COURSE	SY	1160

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

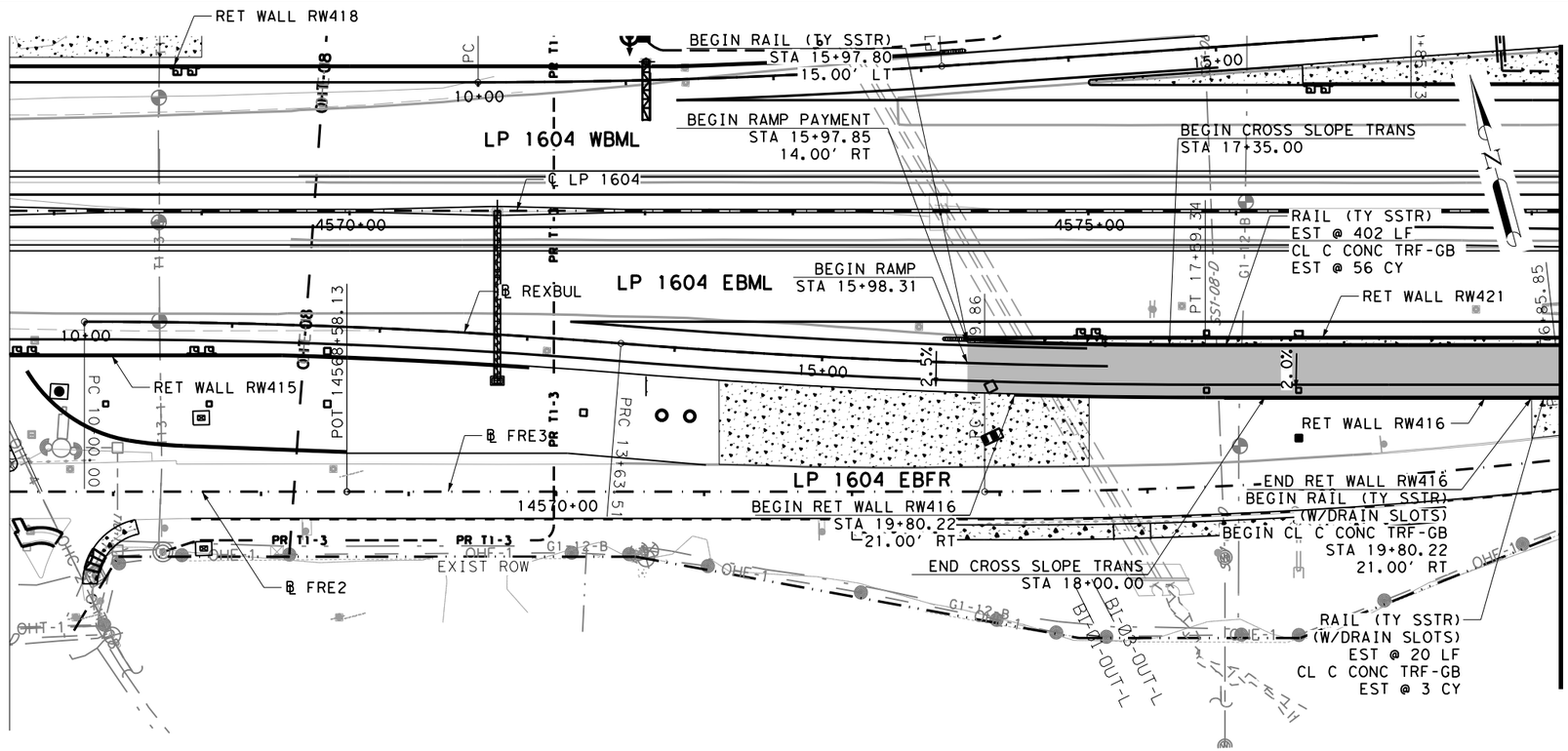
LP 1604

EB EXIT RAMP TO REDLAND RD

PLAN AND PROFILE

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	900



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- SAW CUT
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING
- WETLANDS
- WOUS
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

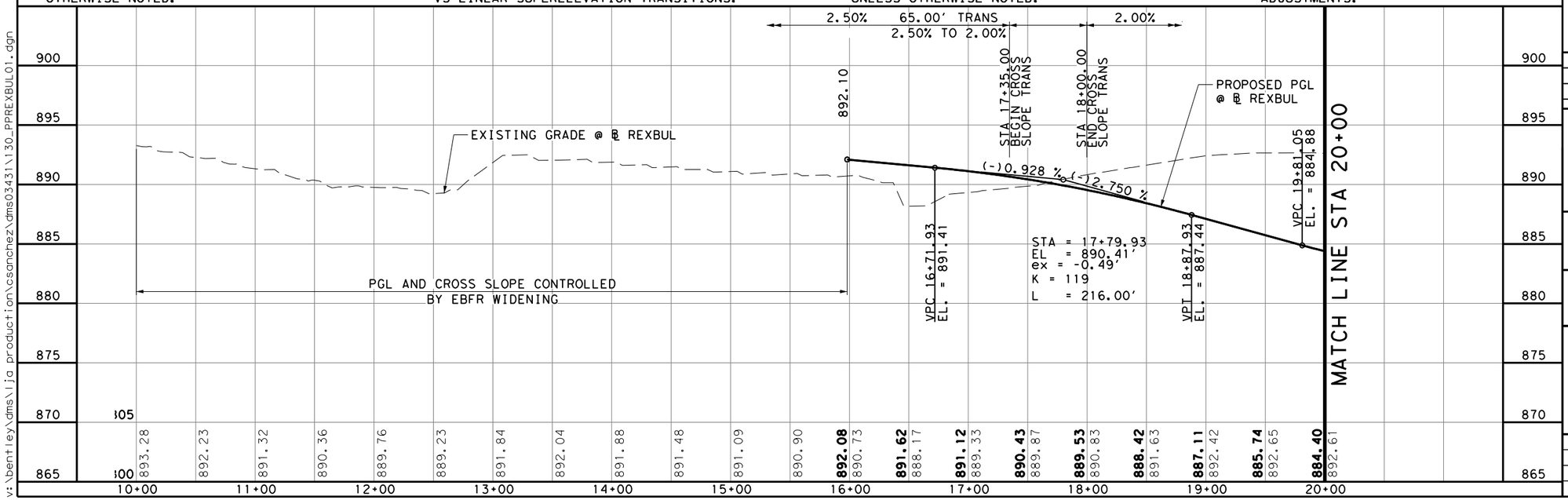
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	1517
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	1517
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	59
	0450	6023	RAIL (TY SSTR)	LF	402
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	20
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1517
*	3076	6023	D-GR HMA TY-C PG70-22	SY	1517
*	3076	6066	TACK COAT	SY	3035
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	1517
*	3085	6001	UNDERSEAL COURSE	SY	3035

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

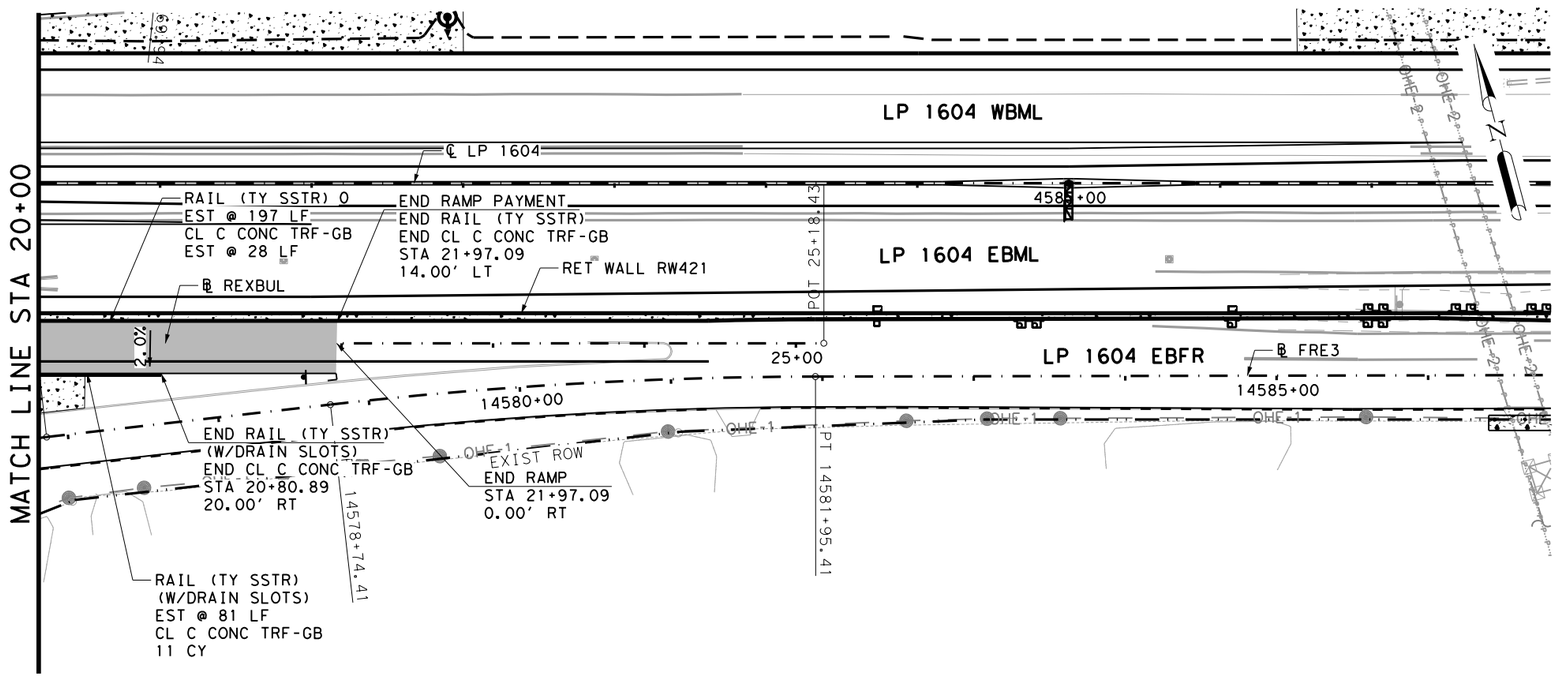
©2023 Texas Department of Transportation

LP 1604
EB EXIT RAMP TO BULVERDE RD
PLAN AND PROFILE

SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	901

4:45:51 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l30_PPREXBUL01.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- SAW CUT
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING
- WETLANDS
- WOUS
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	743
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	743
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	39
	0450	6023	RAIL (TY SSTR)	LF	197
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	81
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	743
*	3076	6023	D-GR HMA TY-C PG70-22	SY	743
*	3076	6066	TACK COAT	SY	1487
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	743
*	3085	6001	UNDERSEAL COURSE	SY	1487

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

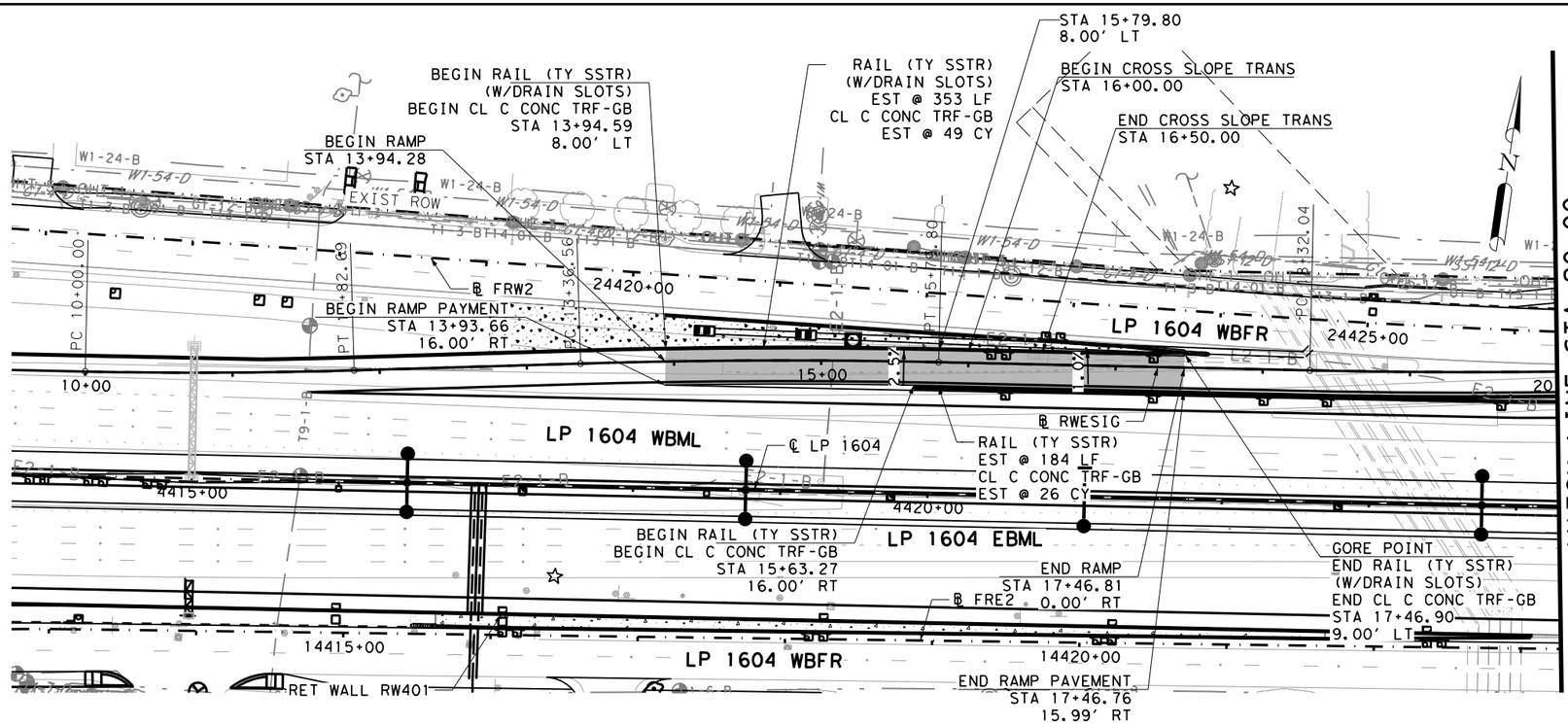
Texas Department of Transportation
©2023

LP 1604
EB EXIT RAMP
TO BULVERDE RD
PLAN AND PROFILE

SHEET 2 OF 2

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	902

v:\bentley\dms\lja production\csanchez\dms03431\130_PPREXBUL02.dgn
2/28/2023
4:46:44 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

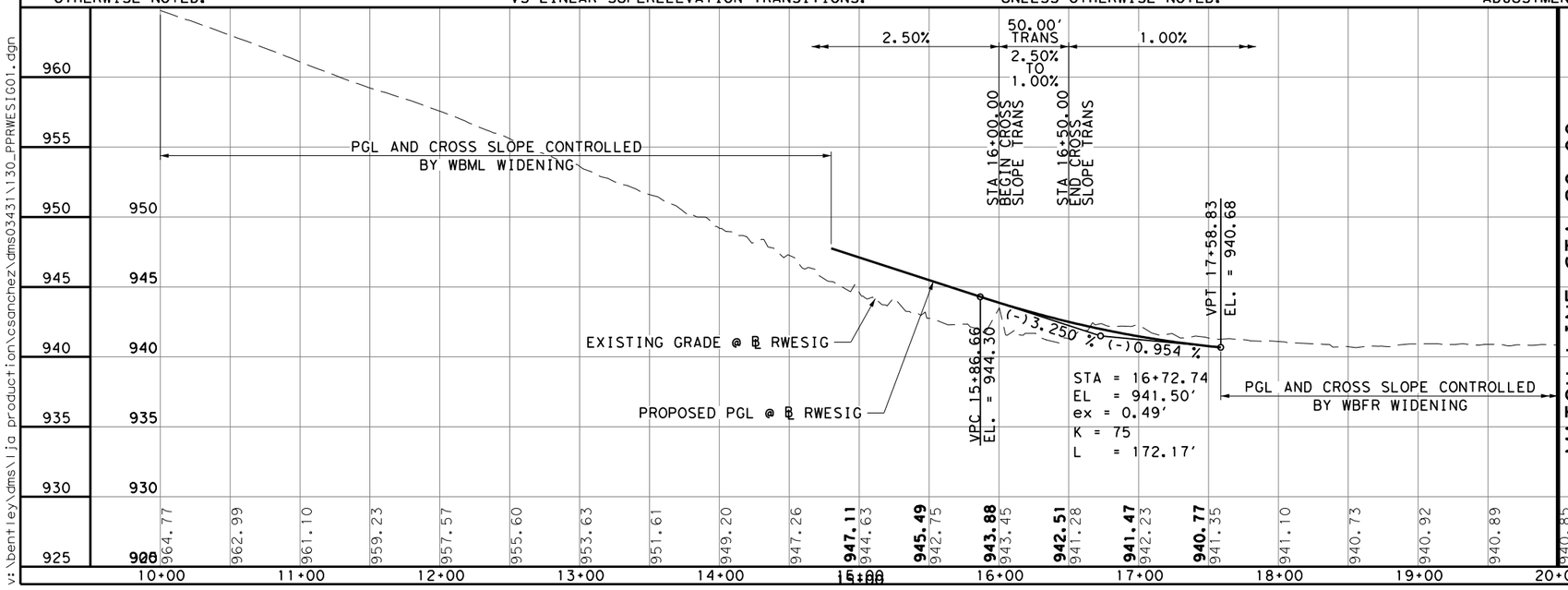
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	940
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	940
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	75
	0450	6023	RAIL (TY SSTR)	LF	184
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	353
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	940
*	3076	6023	D-GR HMA TY-C PG70-22	SY	940
*	3076	6066	TACK COAT	SY	1880
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	940
*	3085	6001	UNDERSEAL COURSE	SY	1880

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

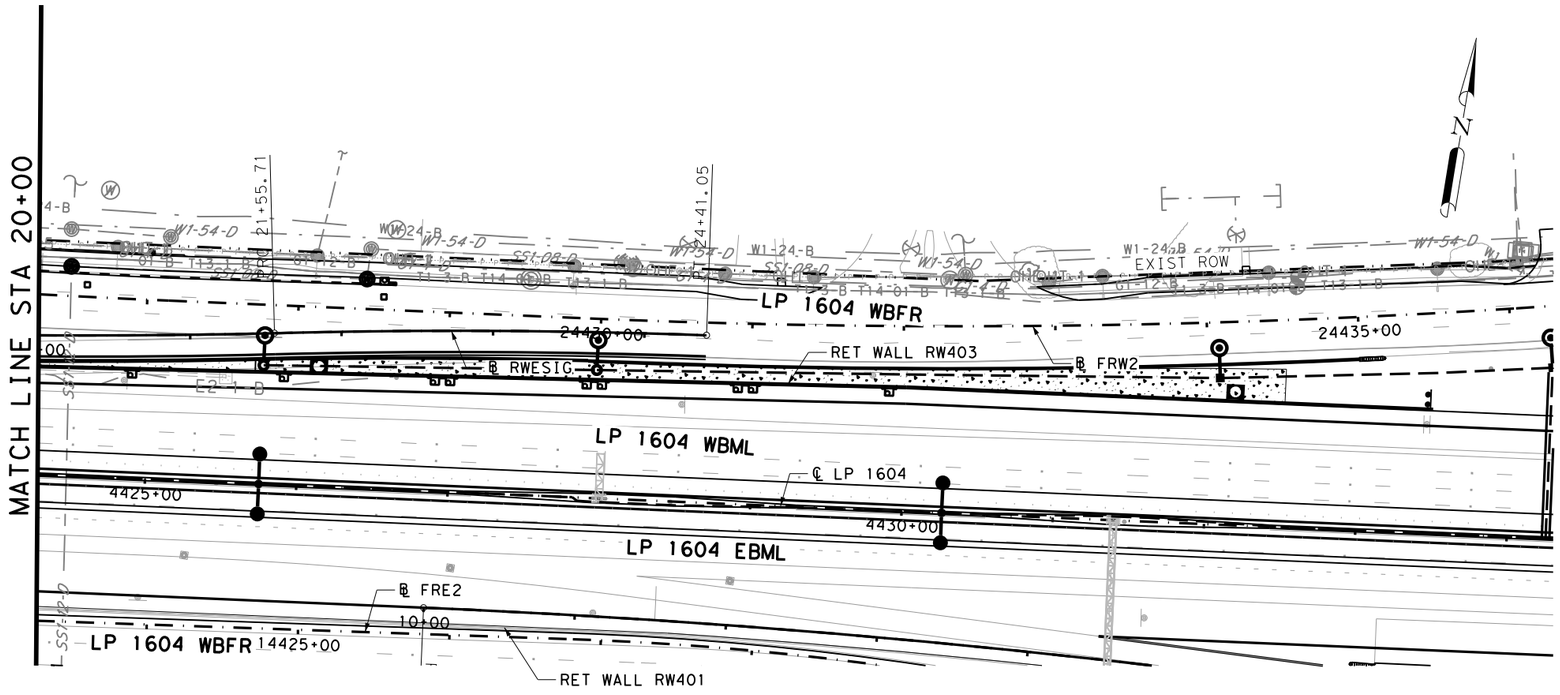
WB ENTRANCE RAMP FROM SIGMA RD

PLAN AND PROFILE

SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	903

4:47:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRRWES1G01.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- SAW CUT
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING
- WETLANDS
- WOUS
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

ITEM	DESC	DESCRIPTION	UNIT	QTY

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′- HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

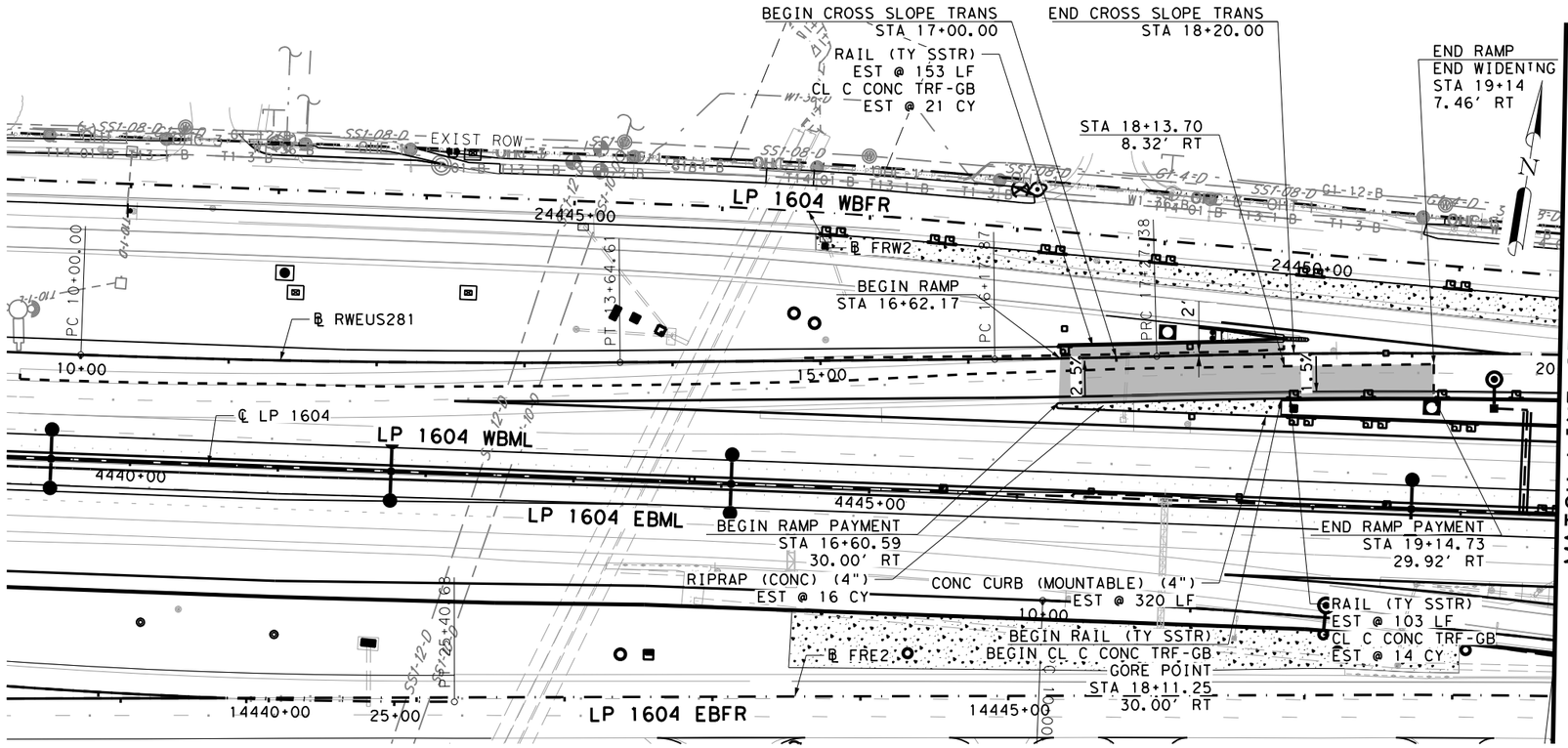
WB ENTRANCE RAMP FROM SIGMA RD

PLAN AND PROFILE

SHEET 2 OF 2

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	904

4:48:12 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPRWESIG02.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- SAW CUT
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING
- WETLANDS
- WOUS
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- WI-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

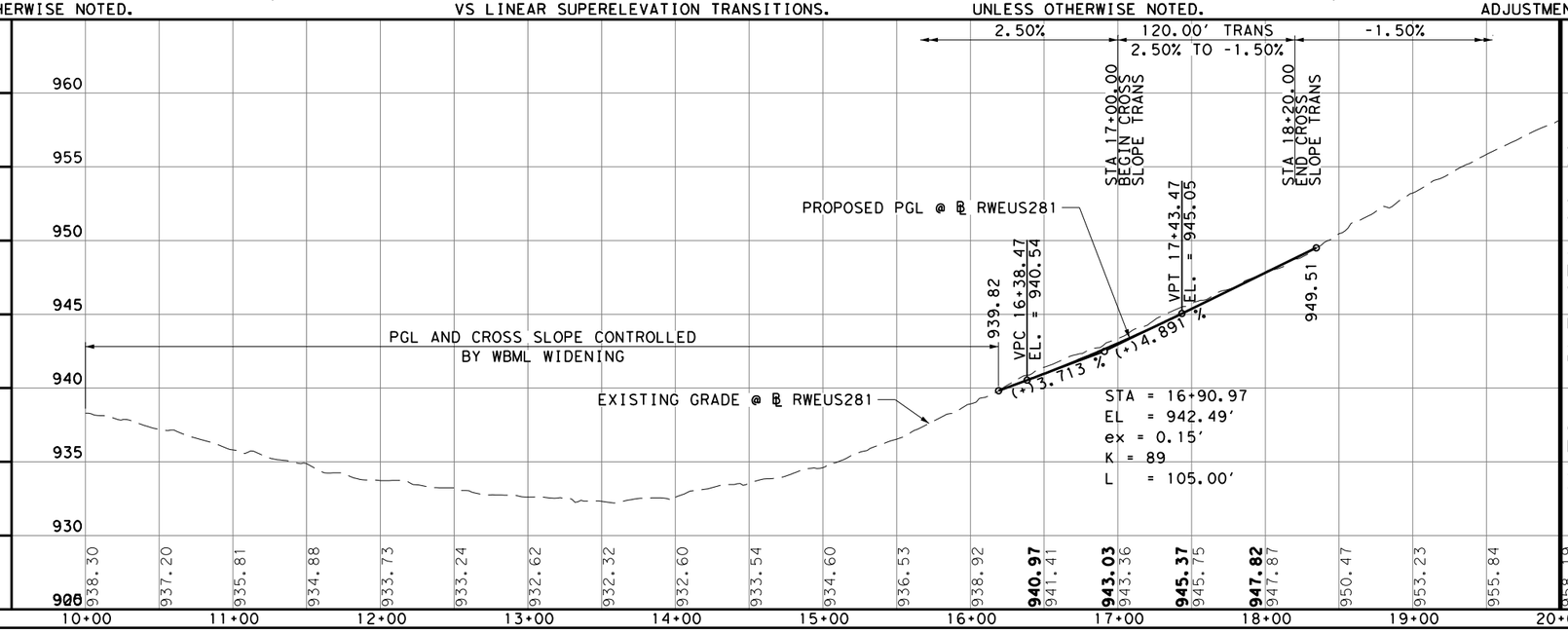
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	36
	0432	6001	RIPRAP (CONC) (4 IN)	CY	16
	0450	6023	RAIL (TY SSTR)	LF	255
	0529	6001	CONC CURB (TY I)	LF	320
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	888
*	3076	6023	D-GR HMA TY-C PG70-22	SY	888
*	3076	6066	TACK COAT	SY	1777
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	888
*	3085	6001	UNDERSEAL COURSE	SY	1777

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

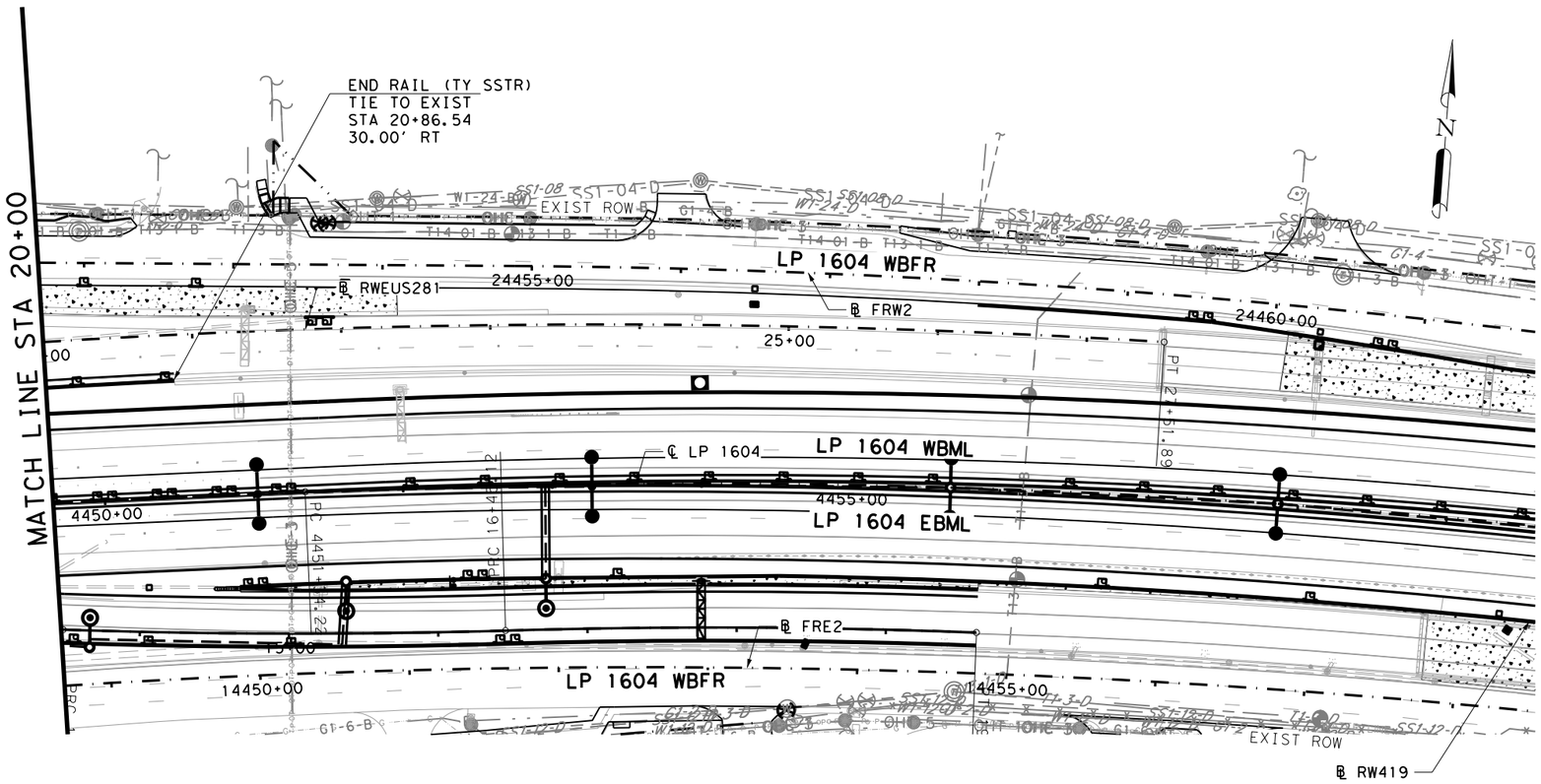
Texas Department of Transportation
©2023

LP 1604
WB ENTRANCE RAMP FROM US281
PLAN AND PROFILE

SHEET 1 OF 2

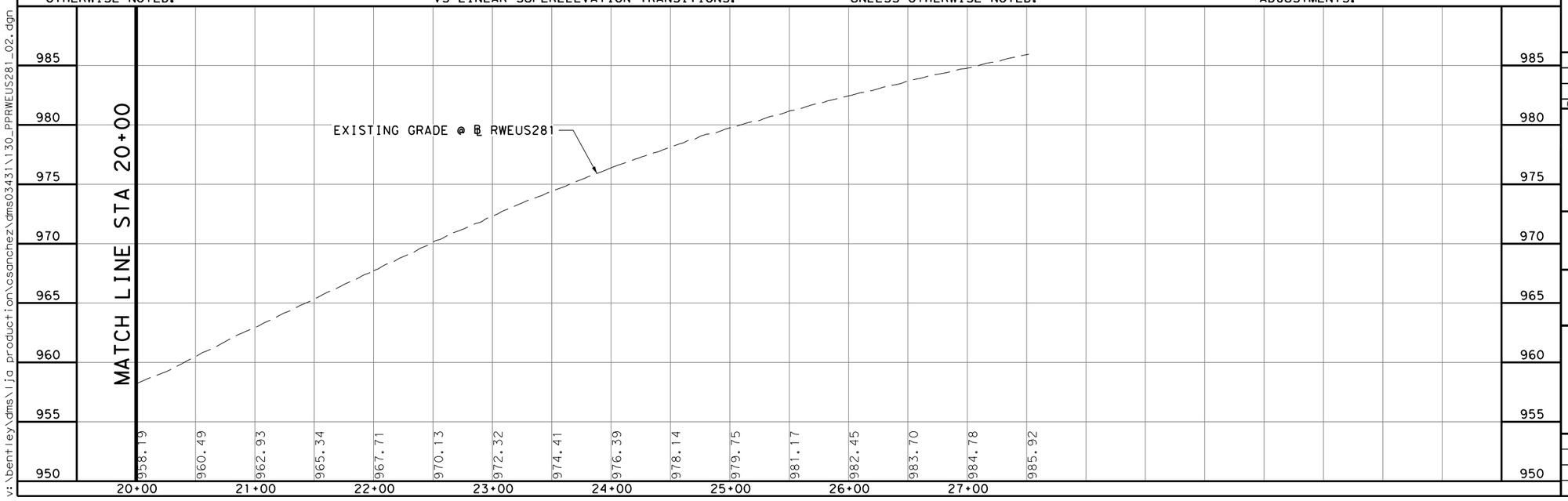
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	905

v:\bentley\dms\lja production\csanchez\dms03431\130_PRRWEUS281_01.dgn
2/28/2023 4:48:52 PM



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-02-130

ITEM	DESC	DESCRIPTION	UNIT	QTY

* FOR CONTRACTOR'S INFORMATION ONLY

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

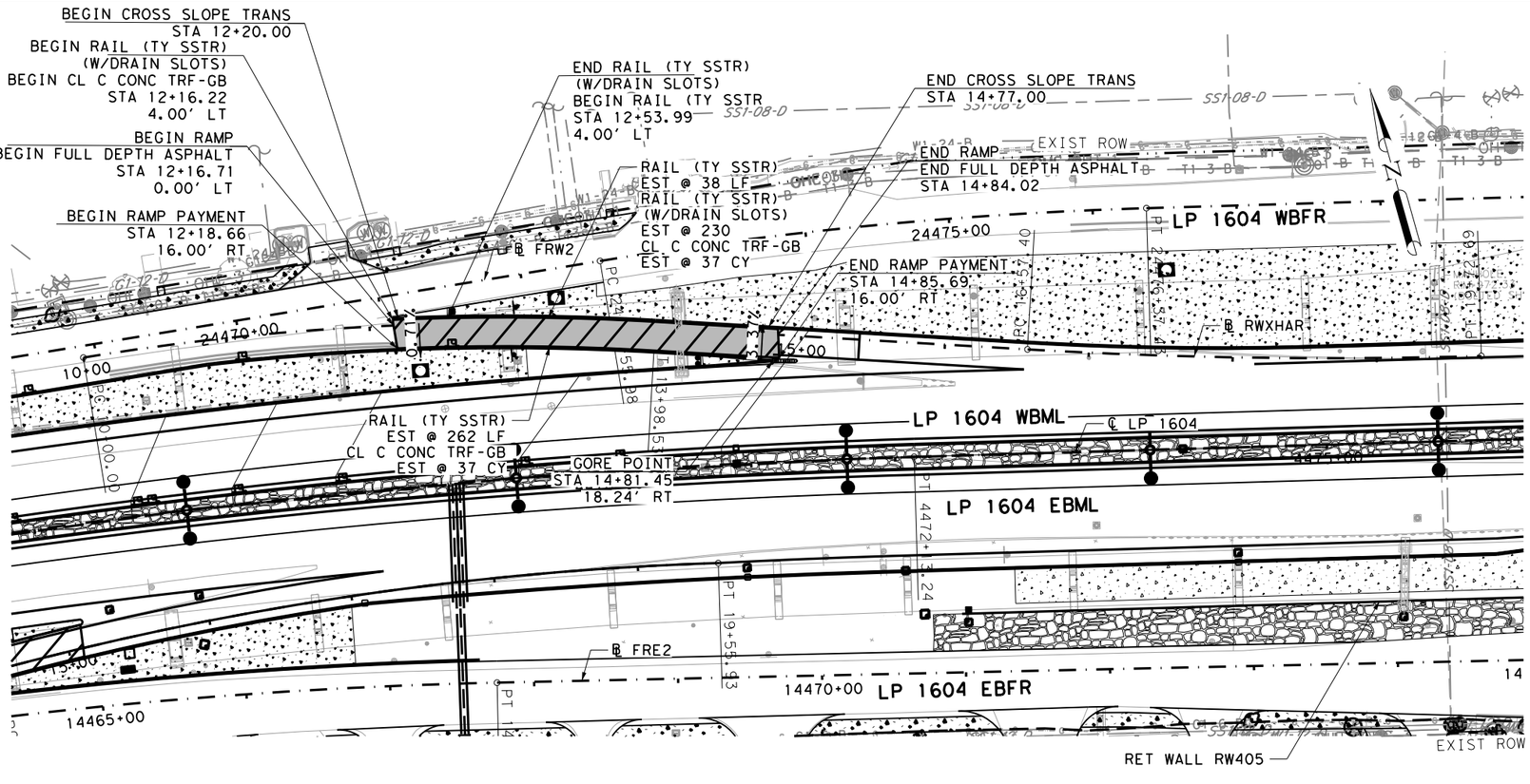
WB ENTRANCE RAMP FROM US281

PLAN AND PROFILE

SHEET 2 OF 2

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	906

4:49:33 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PPRWEUS281_02.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

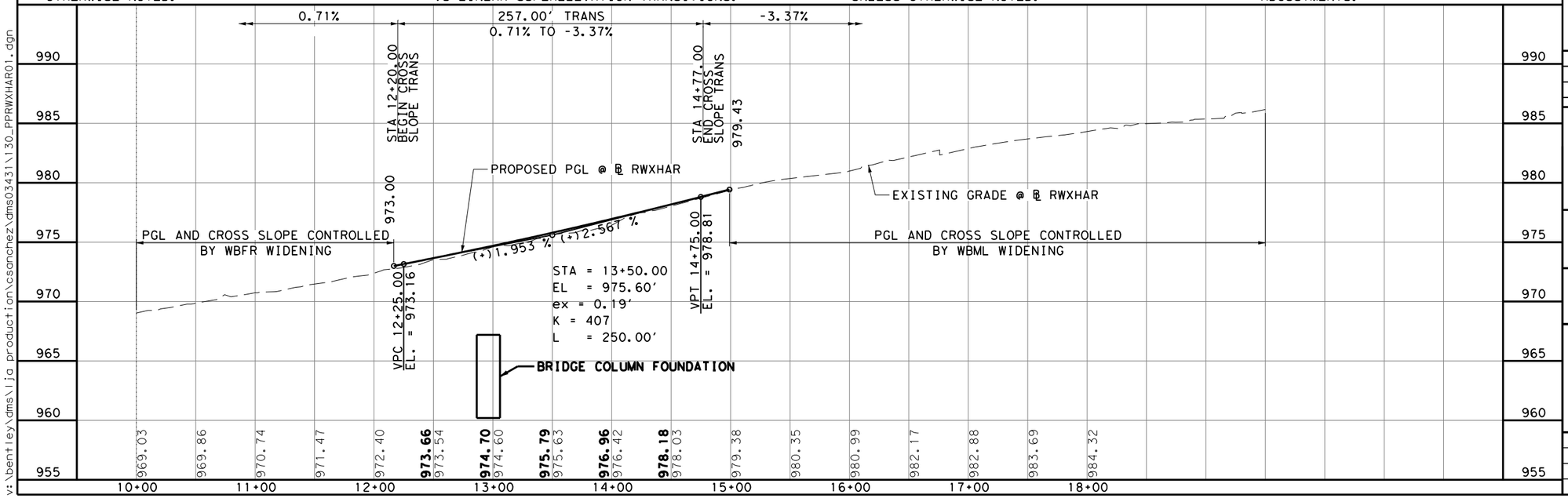
QUANTITY SUMMARY CSJ 2452-02-130

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	74
	0450	6023	RAIL (TY SSTR)	LF	300
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	230
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	591
*	3076	6023	D-GR HMA TY-C PG70-22	SY	591
*	3076	6066	TACK COAT	SY	591
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	591
*	3085	6001	UNDERSEAL COURSE	SY	1181

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

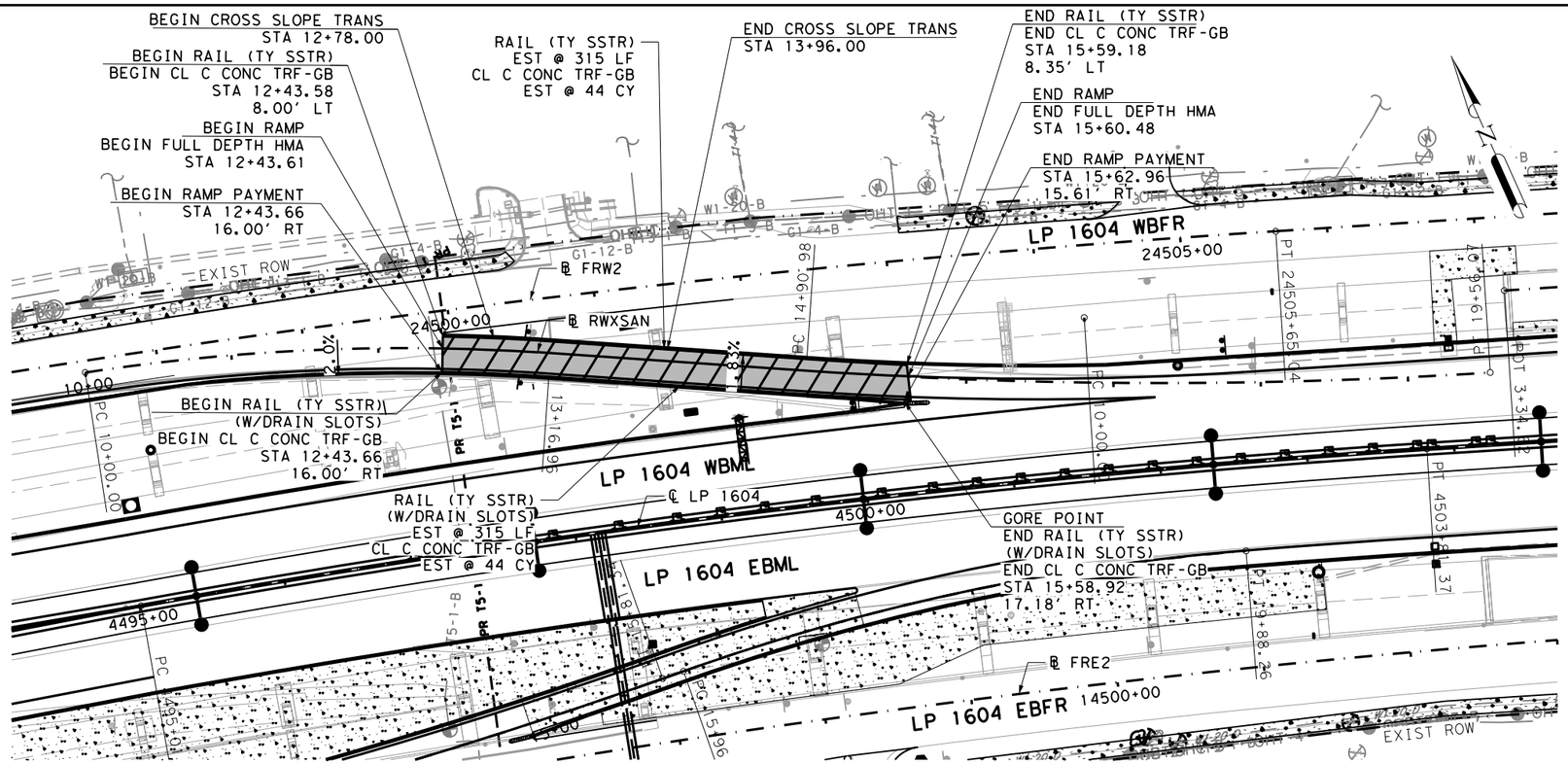
WB EXIT RAMP TO HARDY OAK BLVD

PLAN AND PROFILE

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	907

v:\bentley\dms\lja production\csanchez\dms03431\130_PPRWXHAR01.dgn 2/28/2023 4:50:13 PM



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

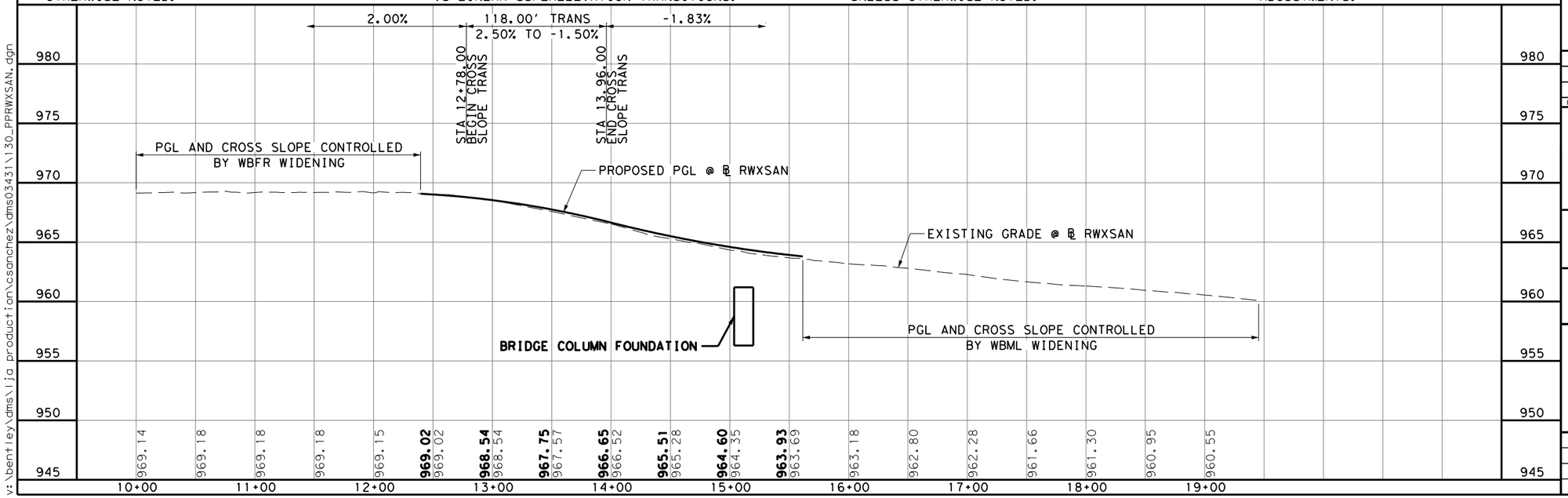
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	88
	0450	6023	RAIL (TY SSTR)	LF	315
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	315
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	845
*	3076	6023	D-GR HMA TY-C PG70-22	SY	845
*	3076	6066	TACK COAT	SY	1690
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	845
*	3085	6001	UNDERSEAL COURSE	SY	1690

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

LP 1604

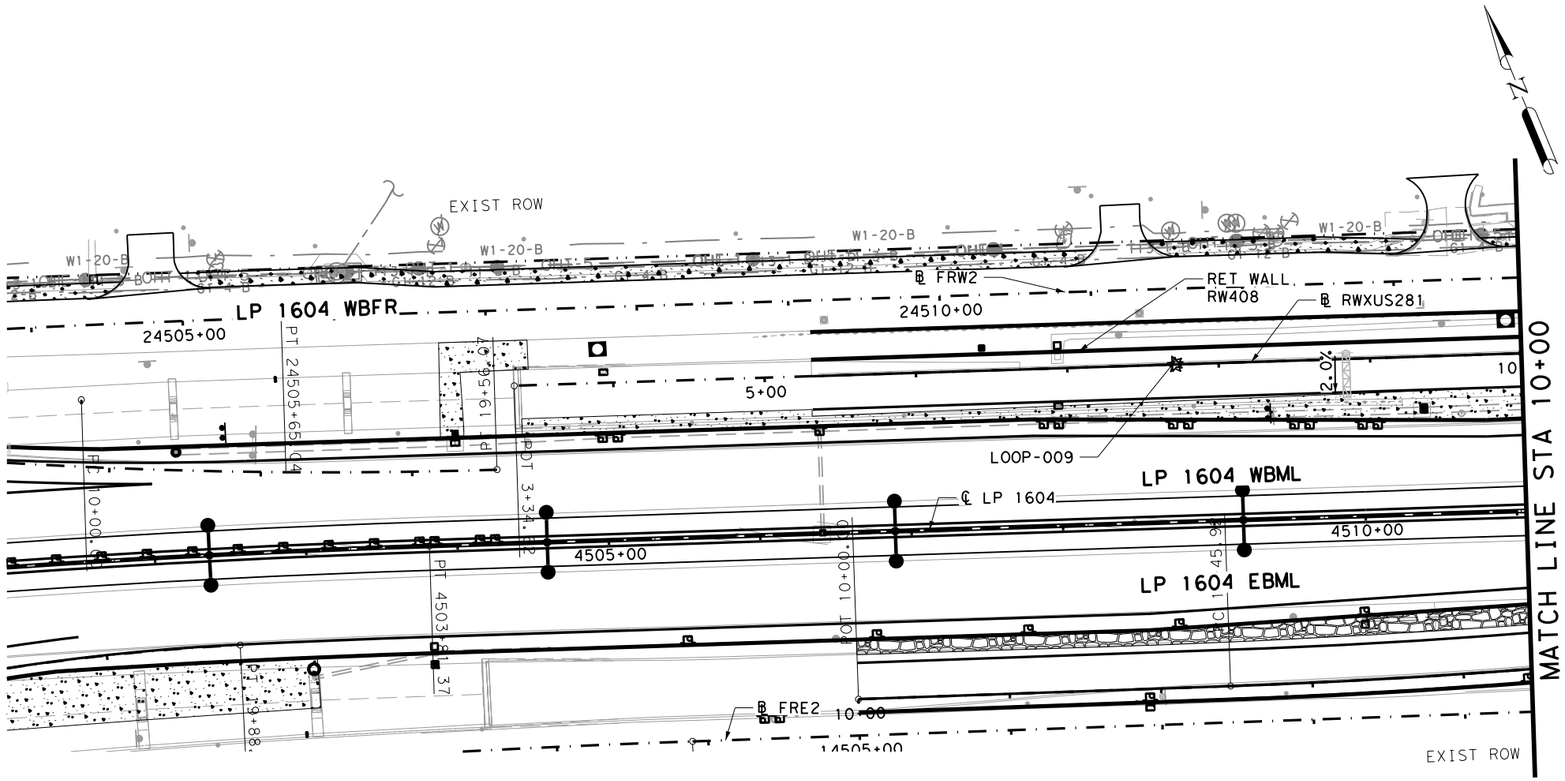
WB EXIT RAMP TO SAN PEDRO AVE

PLAN AND PROFILE

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	908

v:\bentley\dms\lja production\csanchez\dms03431\130_PPRWXSAN.dgn
2/28/2023
4:50:58 PM



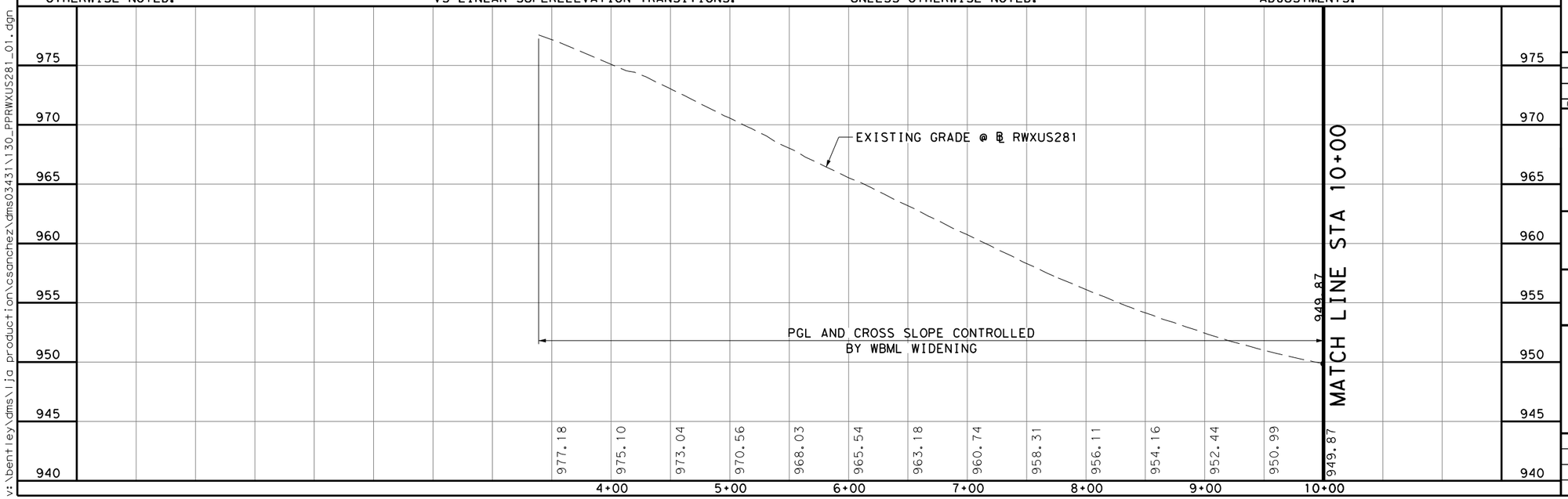
LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0′ 25′ 50′ 100′

SCALE: 1"=100′ - HORZ
1"=10′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

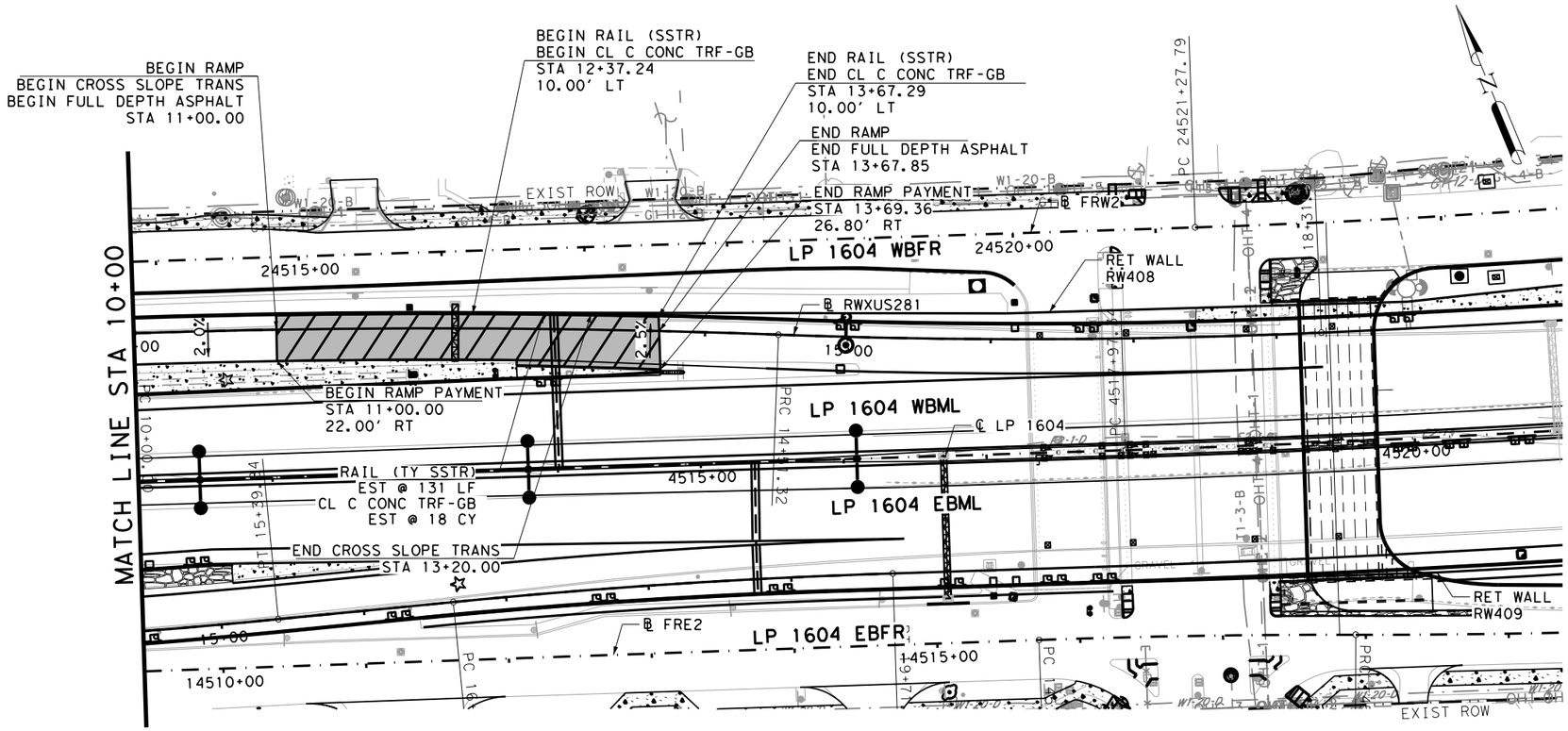
WB EXIT RAMP TO US281

PLAN AND PROFILE

SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	909

4:51:38 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRRWXUS281_01.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

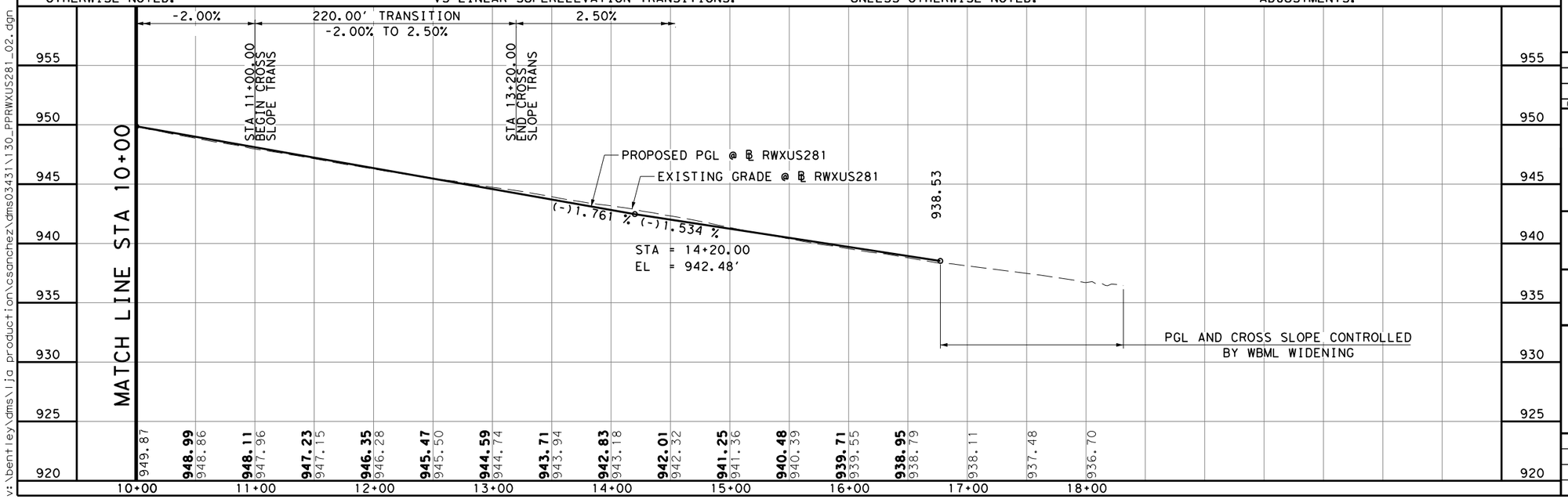
QUANTITY SUMMARY CSJ 2452-02-130

ITEM	DESC	DESCRIPTION	UNIT	QTY
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	18
0450	6023	RAIL (TY SSTR)	LF	131
3076	6001	D-GR HMA TY-B PG 64-22	SY	999
3076	6023	D-GR HMA TY-C PG70-22	SY	999
3076	6066	TACK COAT	SY	1999
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	999
3085	6001	UNDERSEAL COURSE	SY	1999

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

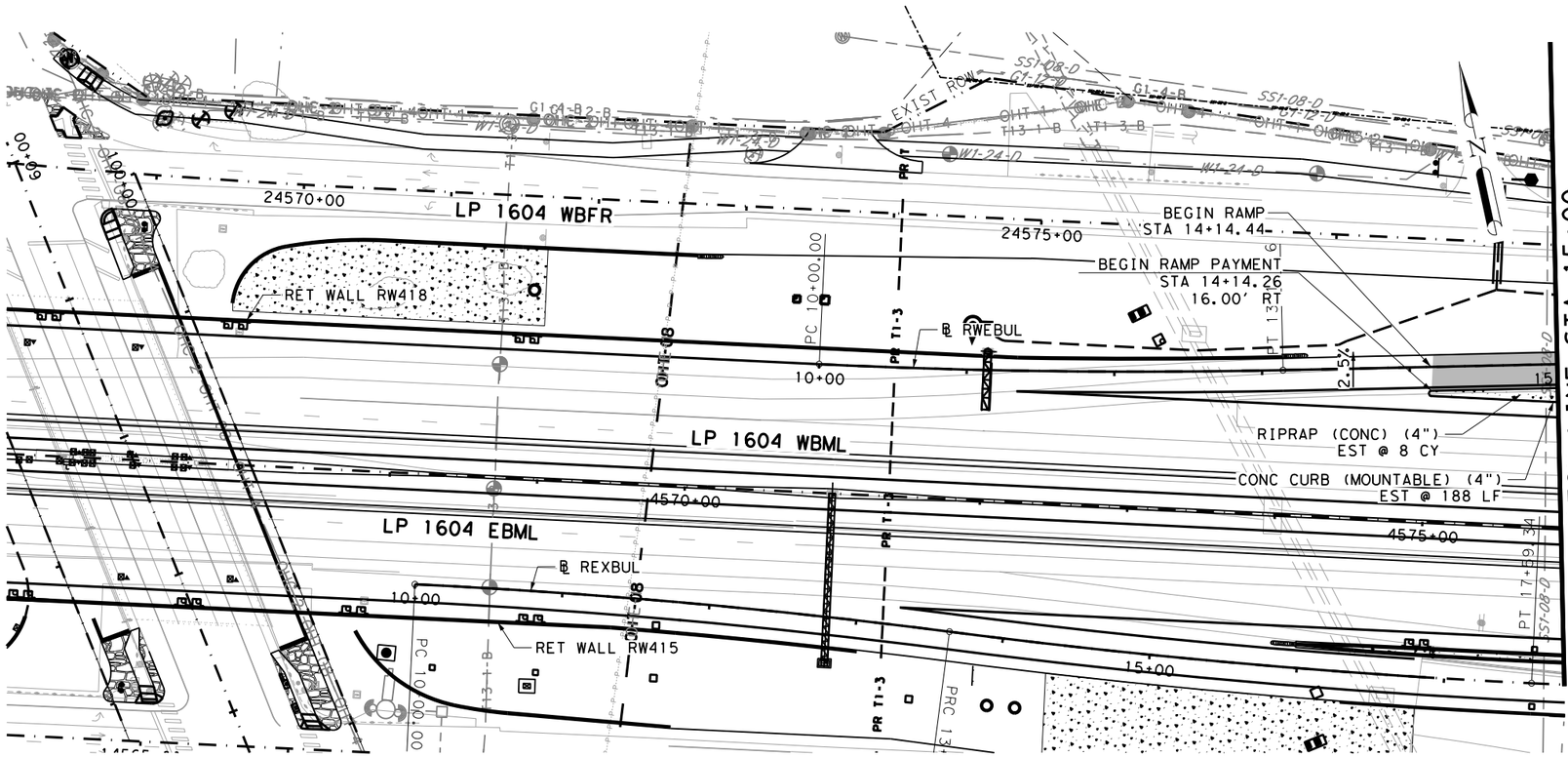
LJA Engineering, Inc.
FRN-F-1386

LP 1604
WB EXIT RAMP TO US281
PLAN AND PROFILE

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	910

4:52:19 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_PRRWXUS281_02.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- SAW CUT
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING
- WETLANDS
- WOUS
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

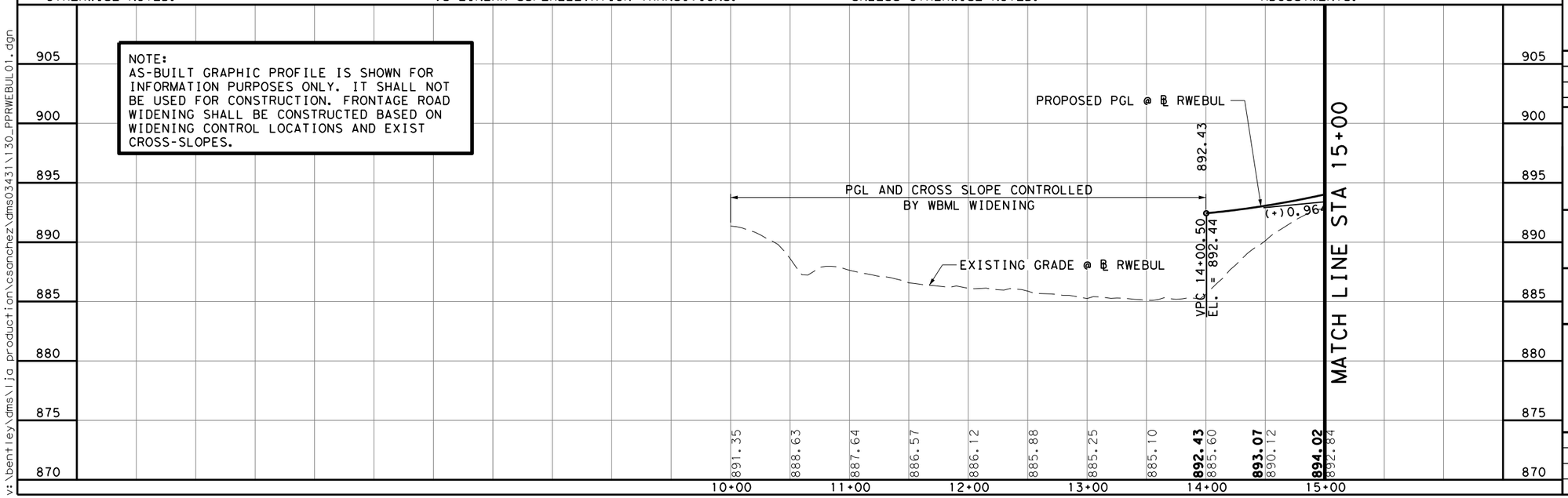
	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	228
	0432	6001	RIPRAP (CONC) (4 IN)	CY	8
	0529	6001	CONC CURB (TY I)	LF	188
*	3076	6023	D-GR HMA TY-C PG70-22	SY	228
*	3076	6066	TACK COAT	SY	228
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	228
*	3085	6001	UNDERSEAL COURSE	SY	457

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

NOTE:
AS-BUILT GRAPHIC PROFILE IS SHOWN FOR INFORMATION PURPOSES ONLY. IT SHALL NOT BE USED FOR CONSTRUCTION. FRONTAGE ROAD WIDENING SHALL BE CONSTRUCTED BASED ON WIDENING CONTROL LOCATIONS AND EXIST CROSS-SLOPES.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'
SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

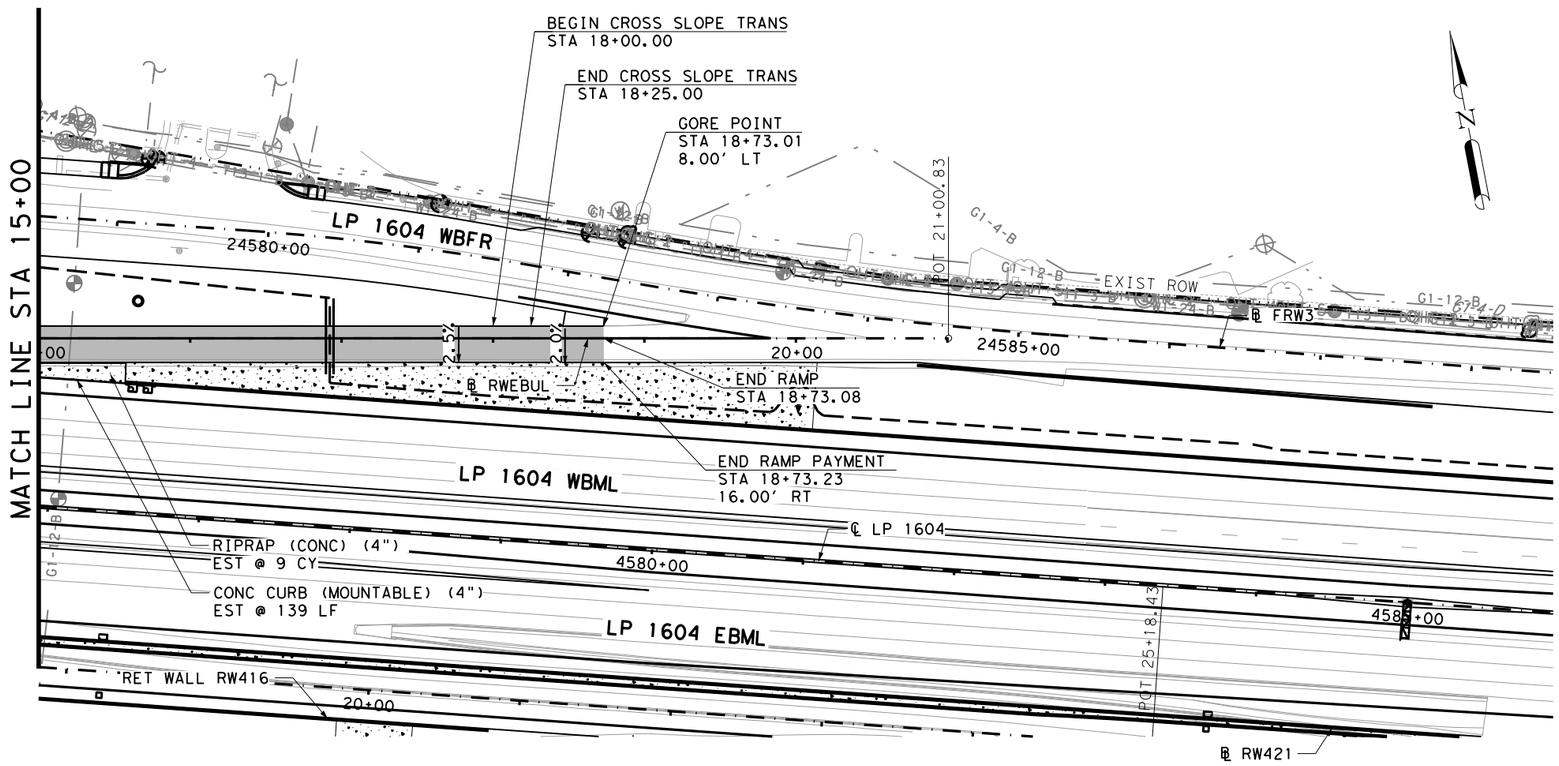
WB ENTRANCE RAMP FROM BULVERDE RD

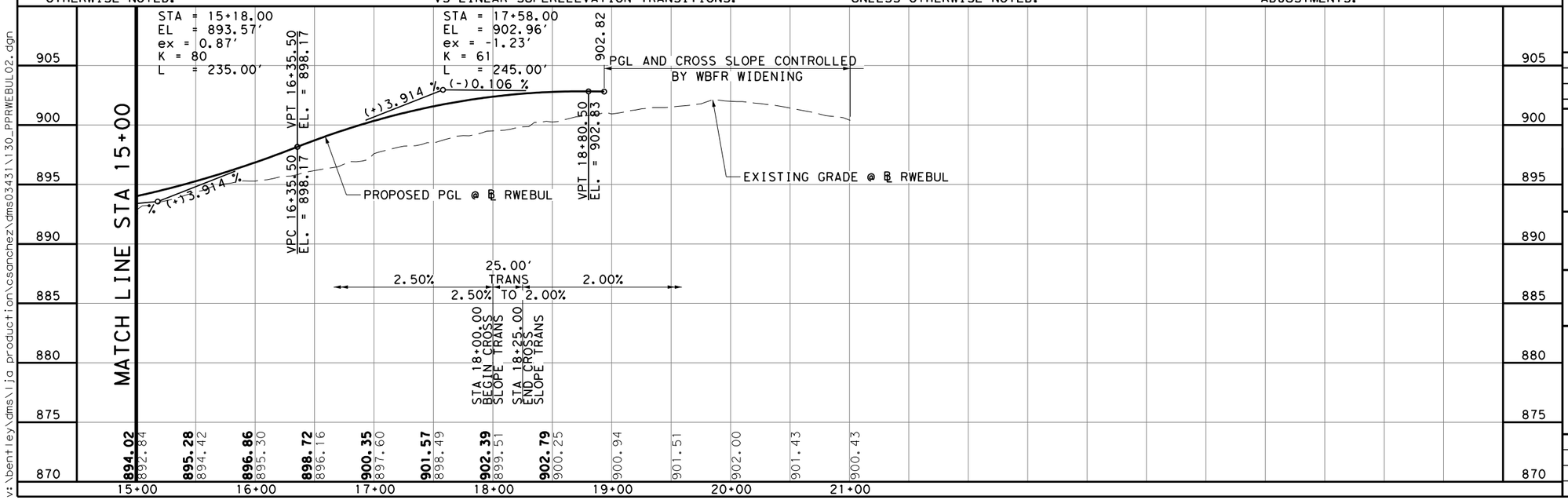
PLAN AND PROFILE

SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	911

2/28/2023 4:53:02 PM
v:\bentley\dms\lja production\csanchez\dms03431\130_PRRWEBUL01.dgn





NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
*	0247	6475	FL BS (CIP) (TY D GR 1-2, 5) FINAL POS	SY	995
*	0310	6027	PRIME COAT (MC-30 OR AE-P)	SY	995
	0432	6001	RIPRAP (CONC) (4 IN)	CY	9
	0529	6001	CONC CURB (TY I)	LF	139
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	995
*	3076	6023	D-GR HMA TY-C PG70-22	SY	995
*	3076	6066	TACK COAT	SY	1990
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	995
*	3085	6001	UNDERSEAL COURSE	SY	1990

* FOR CONTRACTOR'S INFORMATION ONLY

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

LP 1604

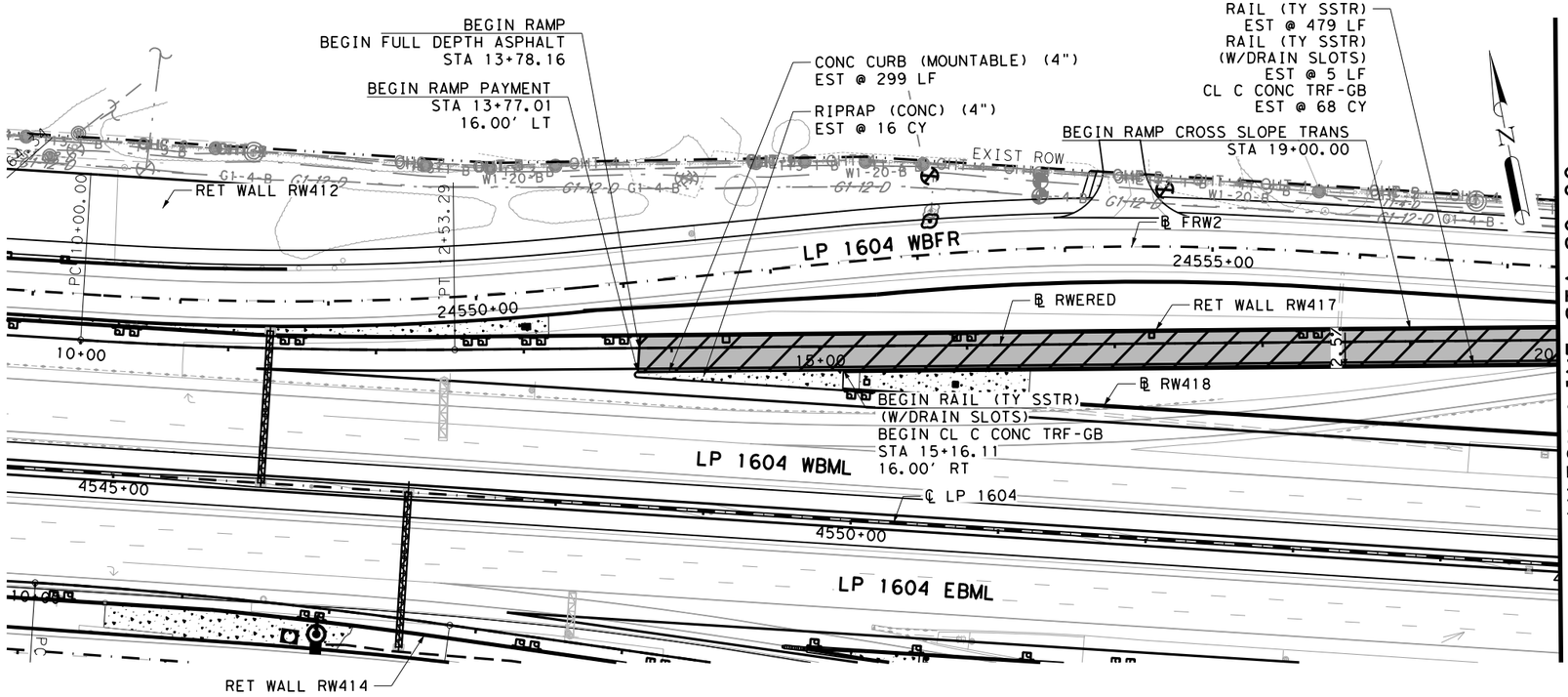
WB ENTRANCE RAMP FROM BULVERDE RD

PLAN AND PROFILE

SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	912

4:53:44 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRRWEBUL02.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

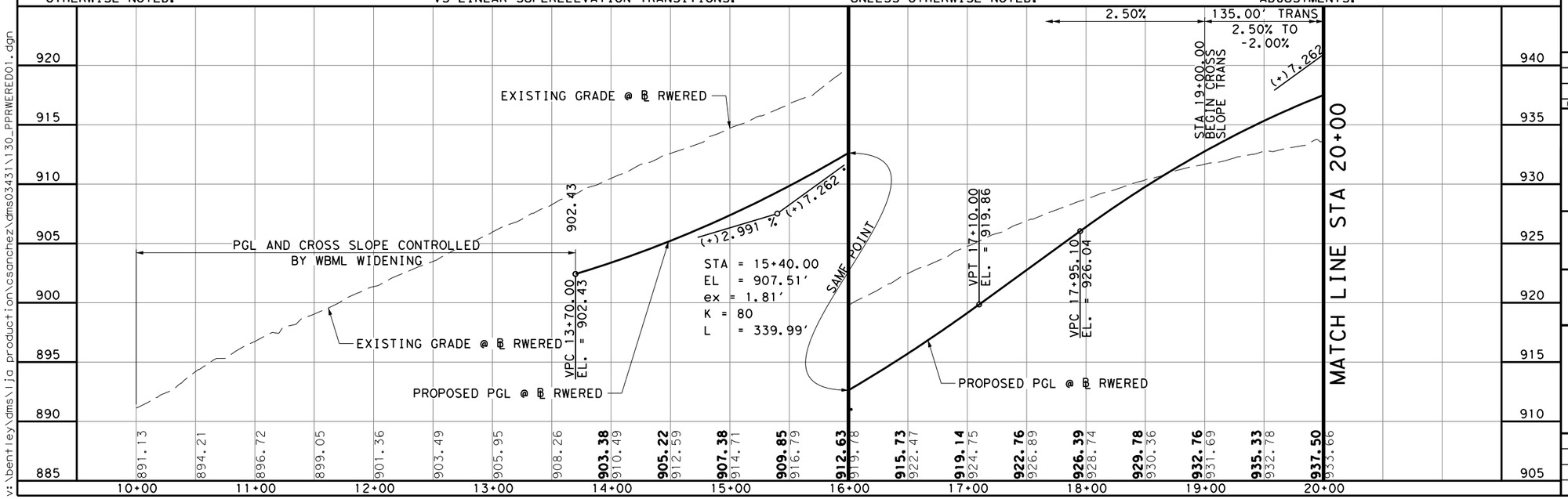
QUANTITY SUMMARY CSJ 2452-03-113

	ITEM	DESC	DESCRIPTION	UNIT	QTY
	0420	6066	CL C CONC (RAIL FOUNDATION)	CY	68
	0432	6001	RIPRAP (CONC)(4 IN)	CY	16
	0450	6023	RAIL (TY SSTR)	LF	479
	0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	5
	0529	6001	CONC CURB (TY I)	LF	299
*	3076	6001	D-GR HMA TY-B PG 64-22	SY	1659
*	3076	6023	D-GR HMA TY-C PG70-22	SY	1659
*	3076	6066	TACK COAT	SY	3318
*	3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	1659
*	3085	6001	UNDERSEAL COURSE	SY	3318

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50' 100'

SCALE: 1"=100'- HORZ
1"=10' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

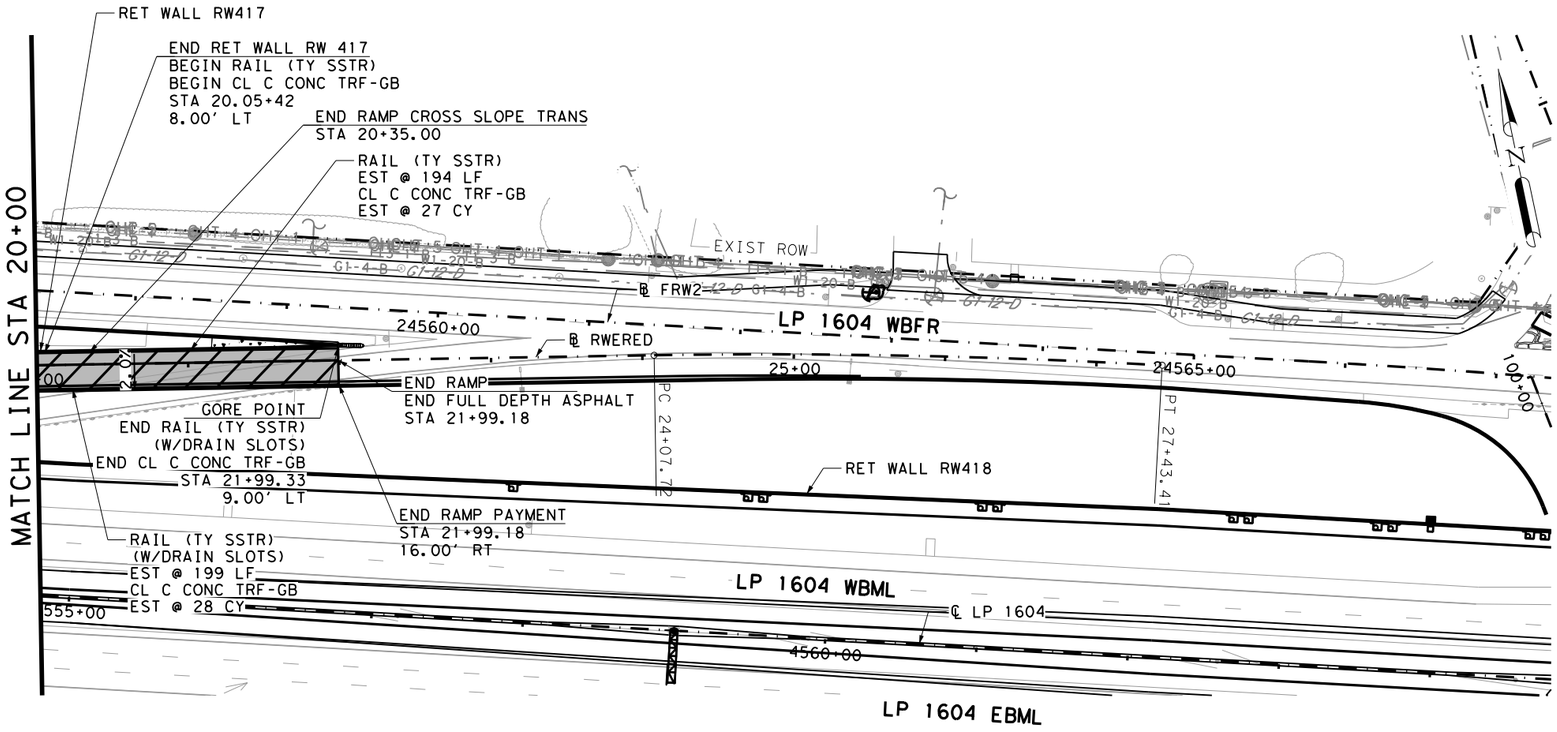
WB ENTRANCE RAMP FROM REDLAND RD

PLAN AND PROFILE

SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	913

4:54:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRRWERED01.dgn



LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- SAW CUT
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING
- WETLANDS
- WOUS
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

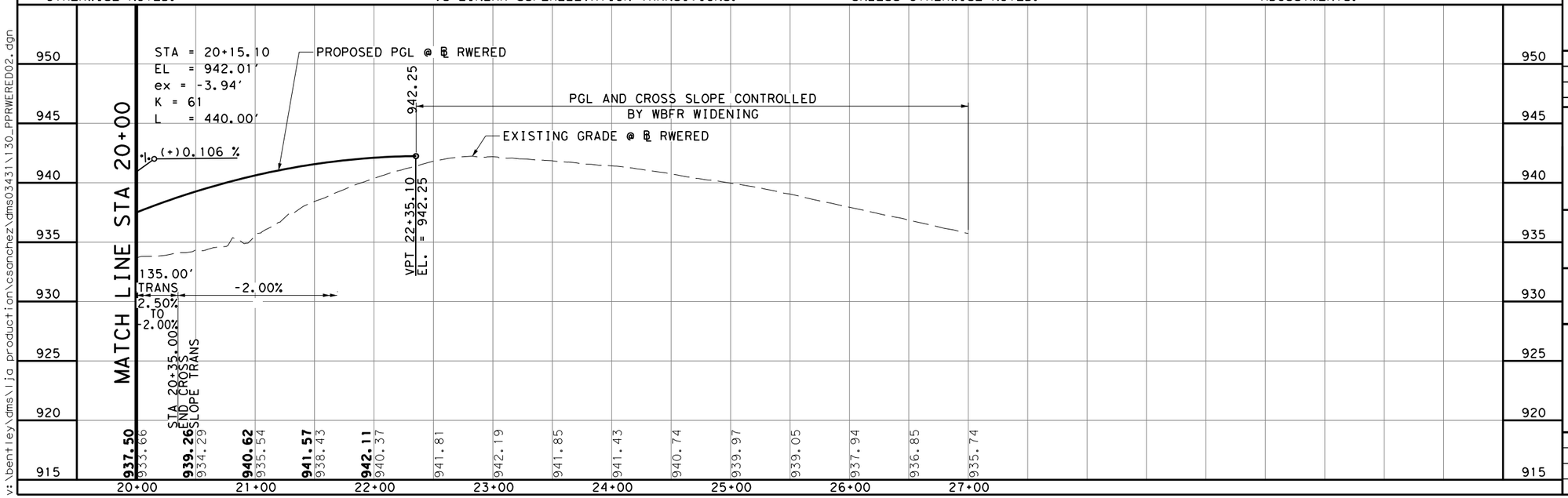
QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0420	6066	CL C CONC (RAIL FOUNDATION)	CY	55
0450	6023	RAIL (TY SSTR)	LF	194
0450	6054	RAIL (TY SSTR) (W/ DRAIN SLOTS)	LF	199
3076	6001	D-GR HMA TY-B PG 64-22	SY	531
3076	6023	D-GR HMA TY-C PG70-22	SY	531
3076	6066	TACK COAT	SY	1062
3077	6033	SP MIXES SP-C SAC-A PG76-22	SY	531
3085	6001	UNDERSEAL COURSE	SY	1062

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.
6. SEE BRIDGE PLANS FOR BRIDGE PROFILE ADJUSTMENTS.



0' 25' 50' 100'

SCALE: 1"=100' - HORZ
1"=10' - VERT

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

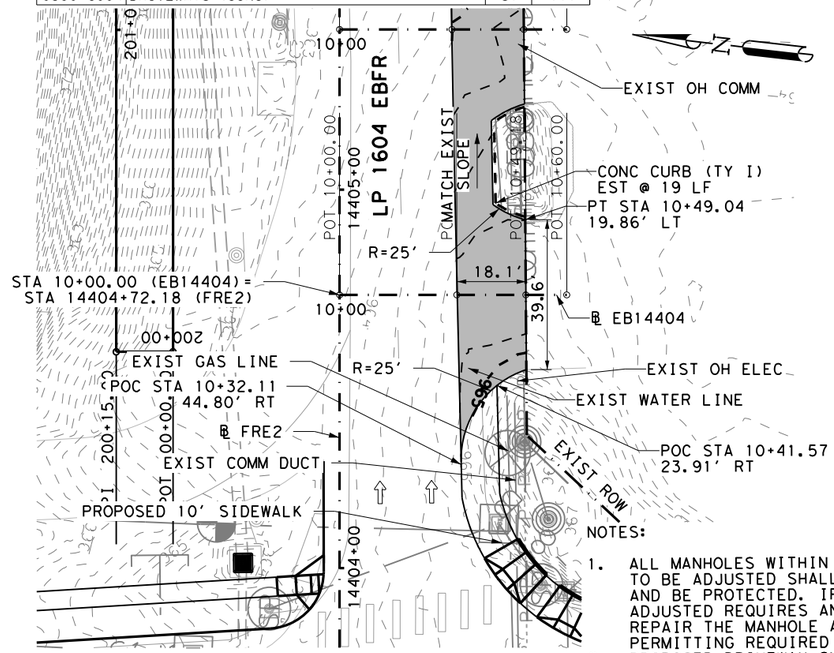
LP 1604
WB ENTRANCE RAMP FROM REDLAND RD
PLAN AND PROFILE

SHEET 2 OF 2

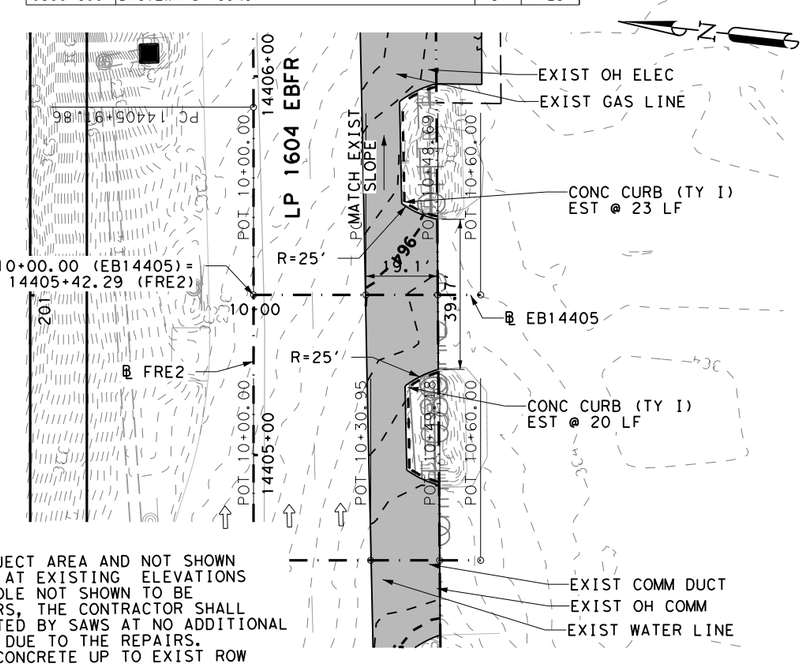
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	914

4:55:05 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PRRWERED02.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	19
0530-6004	DRIVEWAYS (CONC)	SY	111



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	43
0530-6004	DRIVEWAYS (CONC)	SY	125



LEGEND

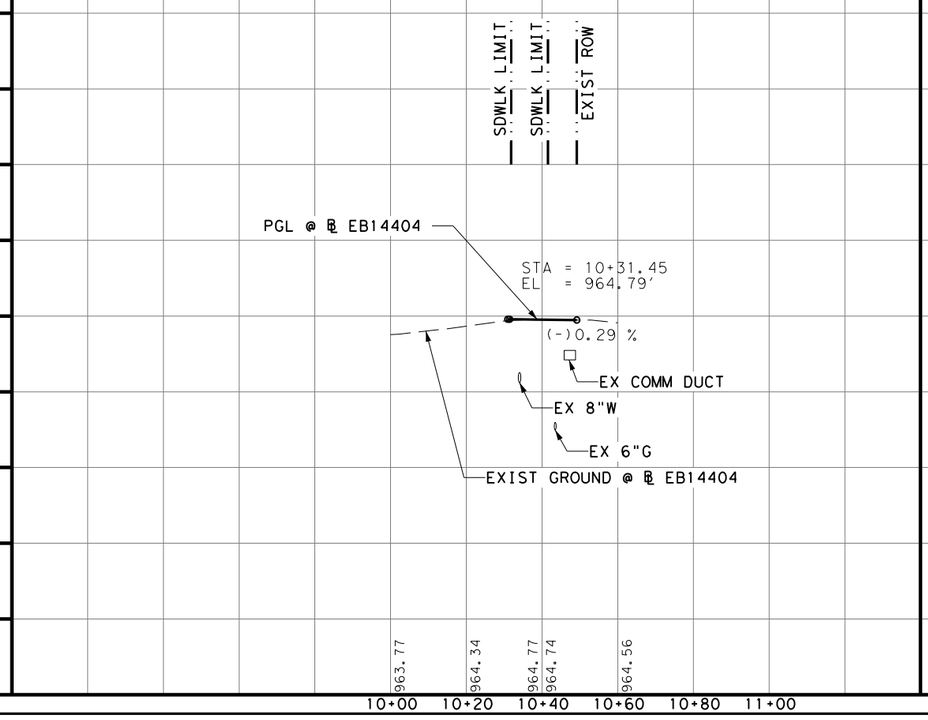
EXIST CONTOUR

PROP CONTOUR

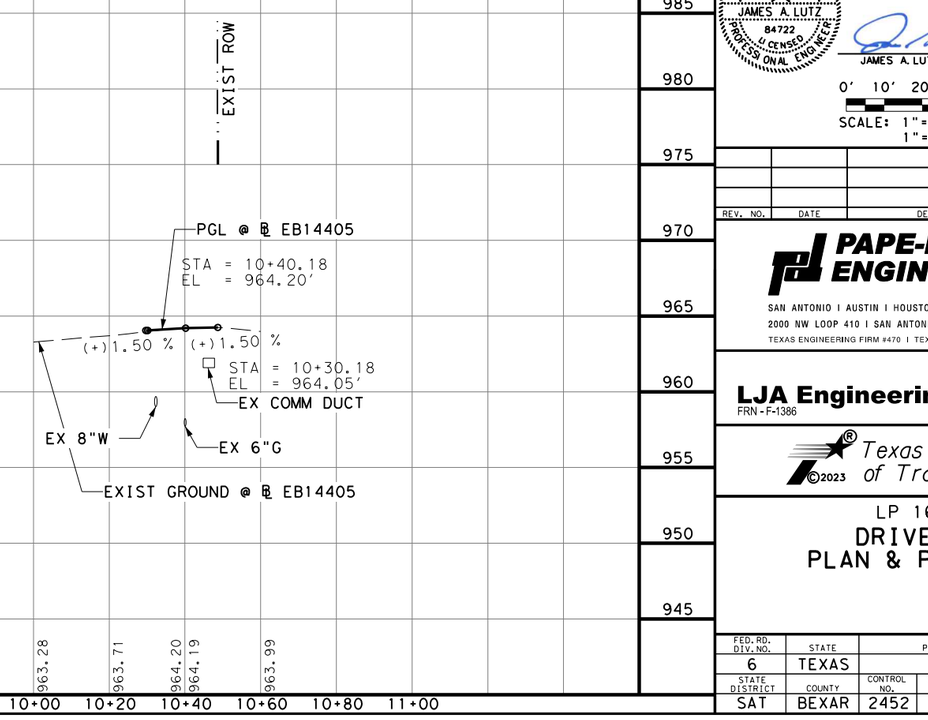
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14404



EB14405



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

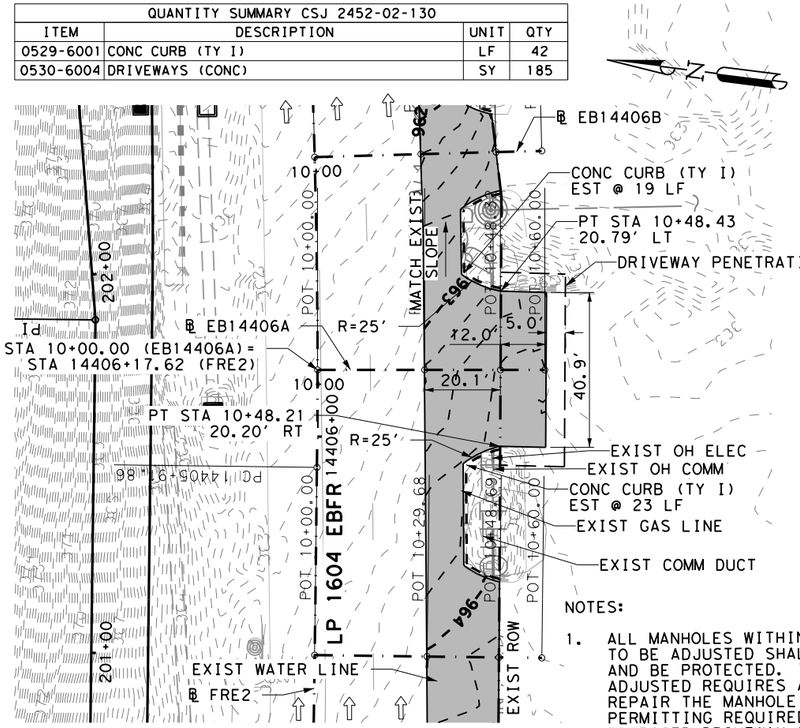
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 1 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	915

6:07:20 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY01.dgn

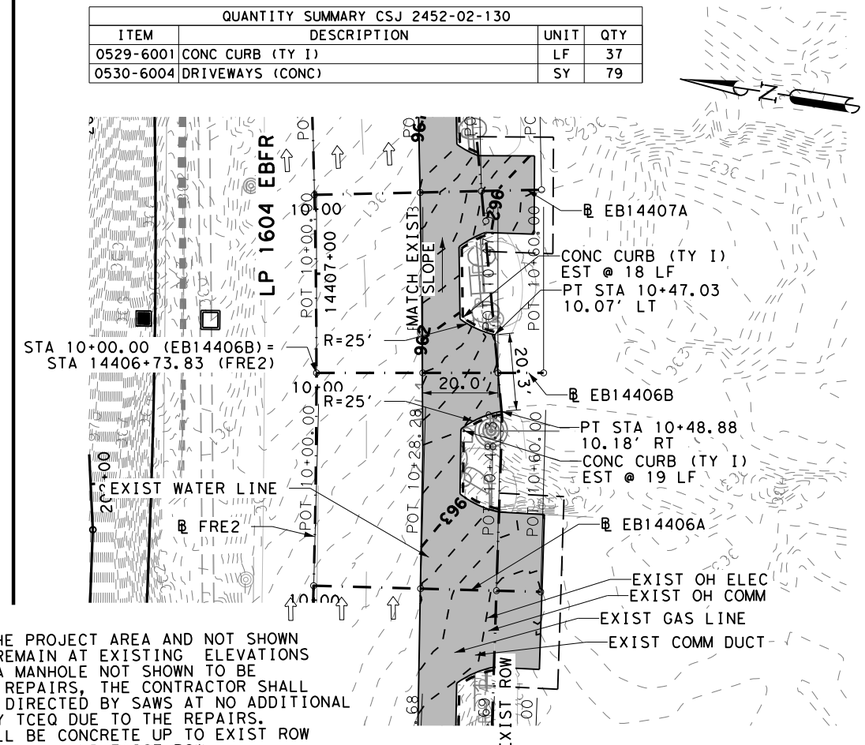
QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	42
0530-6004	DRIVEWAYS (CONC)	SY	185



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	37
0530-6004	DRIVEWAYS (CONC)	SY	79



LEGEND

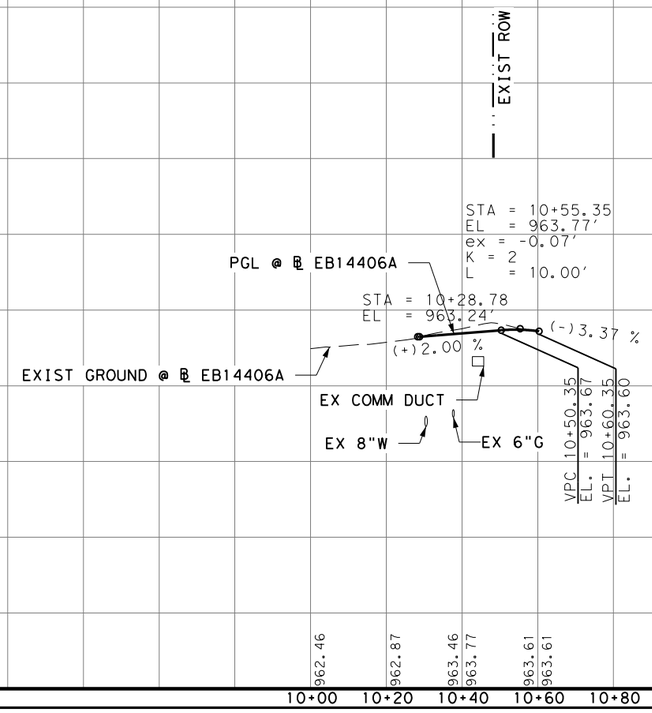
EXIST CONTOUR

PROP CONTOUR

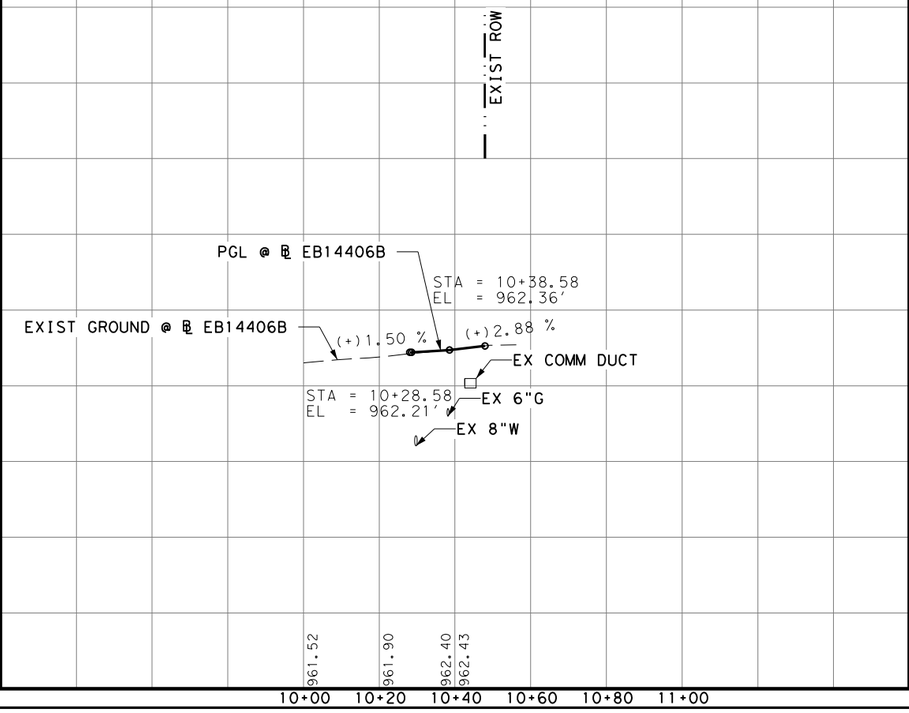
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14406A



EB14406B



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

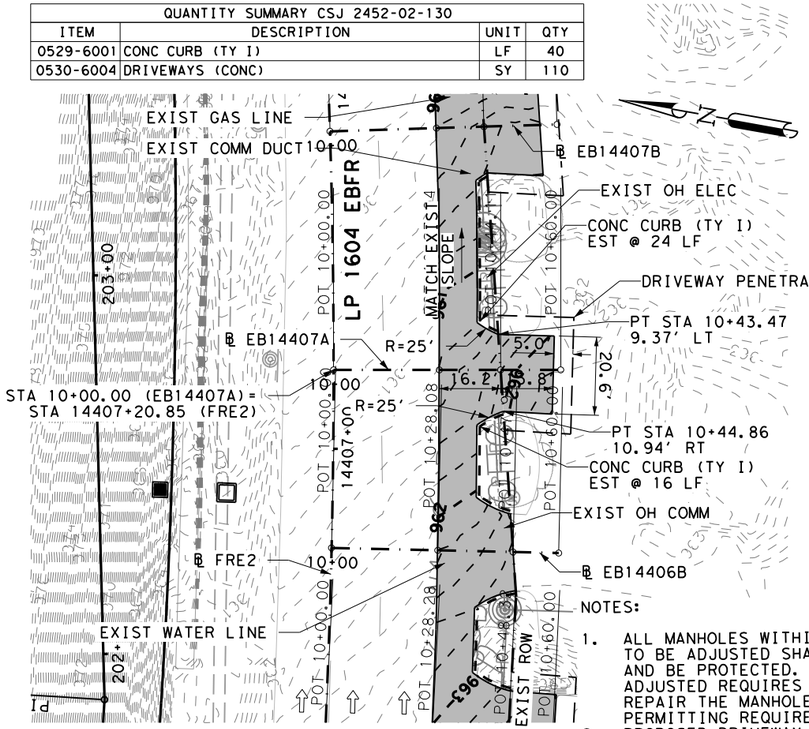
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 2 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	916

6:08:10 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY02.dgn

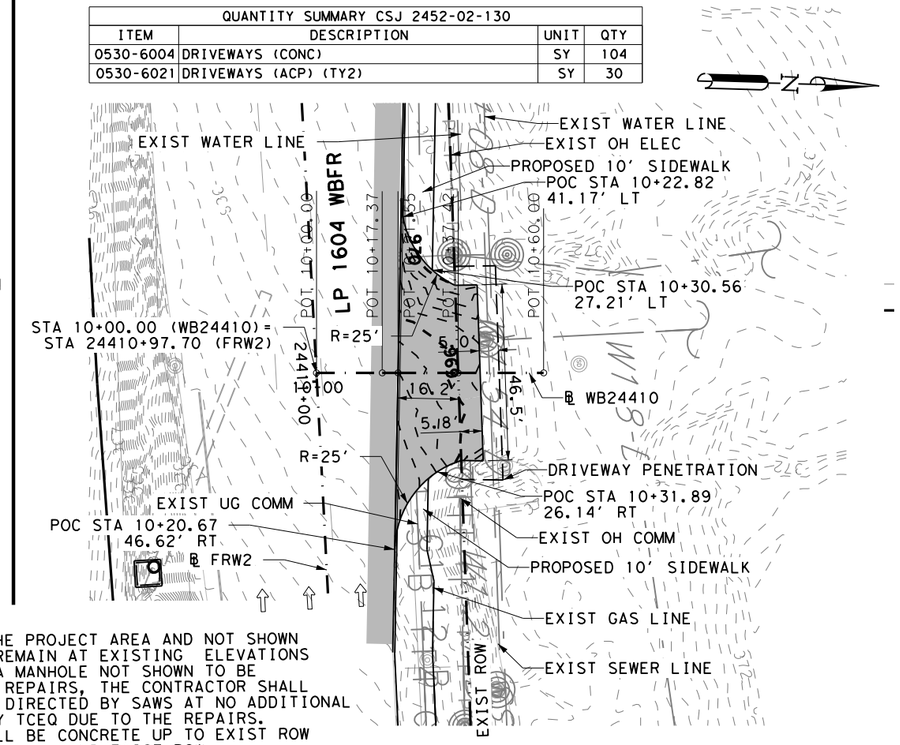
QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	40
0530-6004	DRIVEWAYS (CONC)	SY	110



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	104
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	30



LEGEND

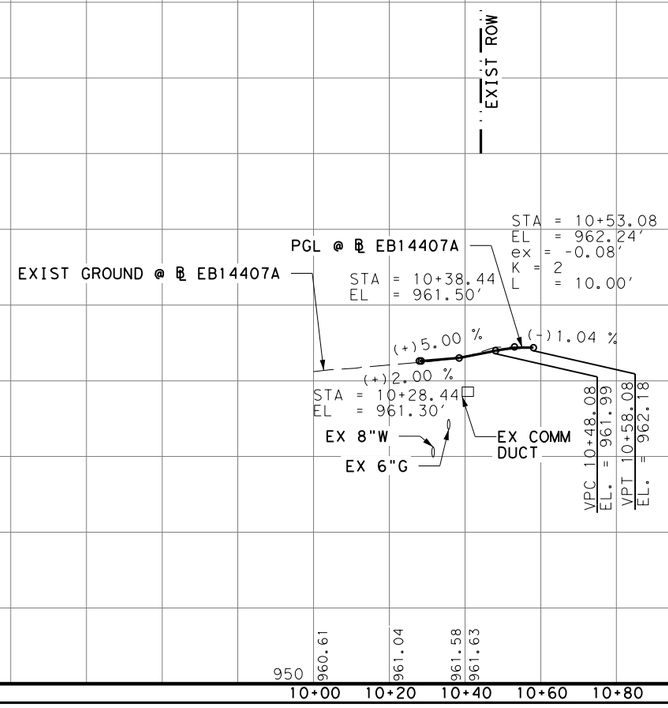
EXIST CONTOUR

PROP CONTOUR

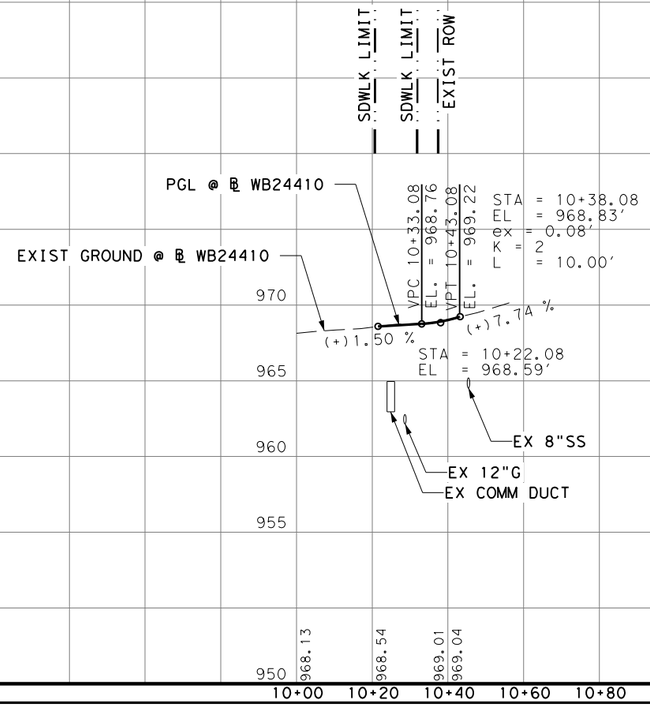
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

EB14407A



WB24410



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

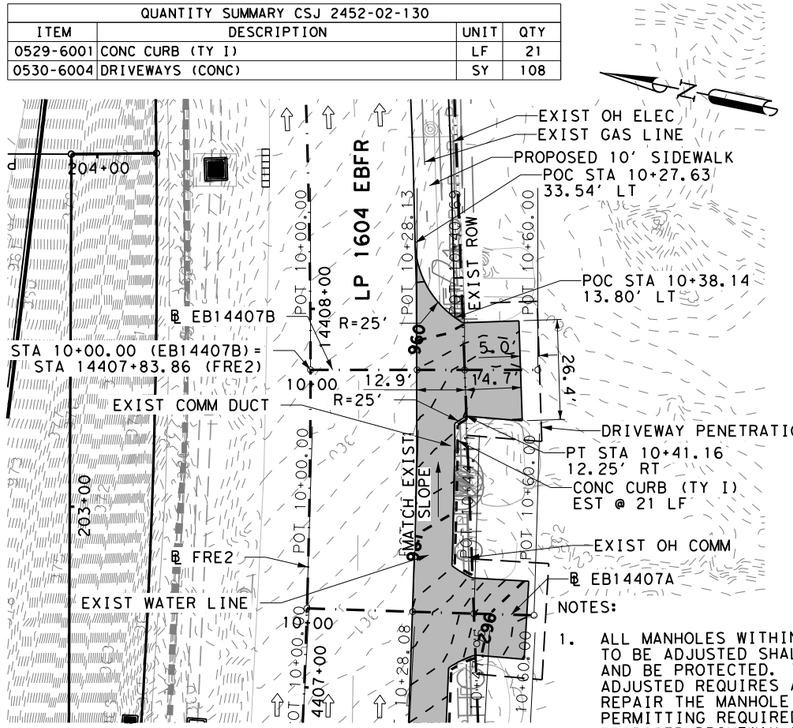
DRIVEWAY PLAN & PROFILE

SHEET 3 OF 44

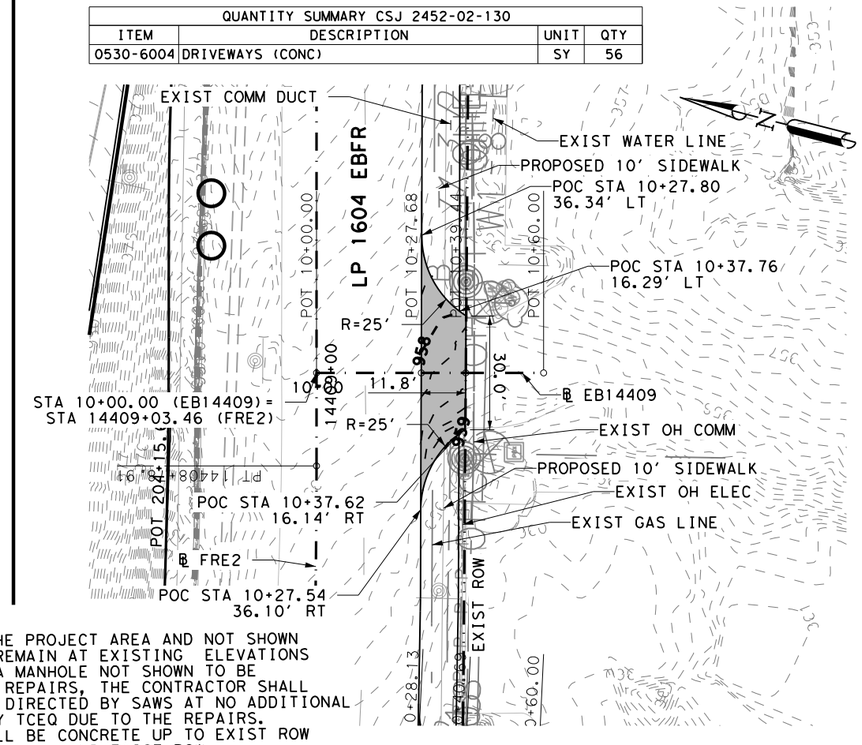
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	917

6:08:59 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY03.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	21
0530-6004	DRIVEWAYS (CONC)	SY	108



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	56



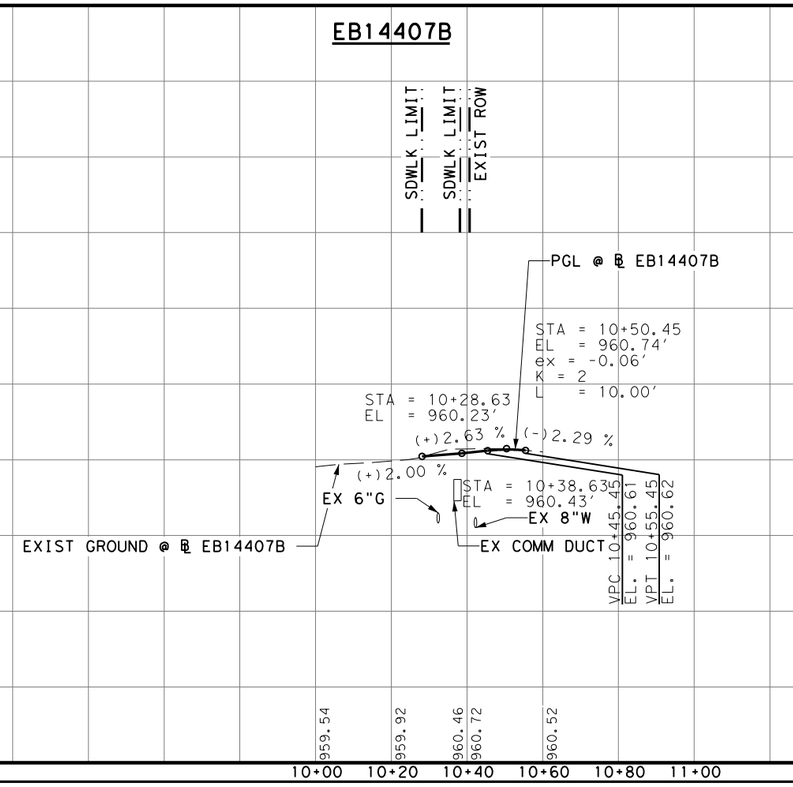
LEGEND

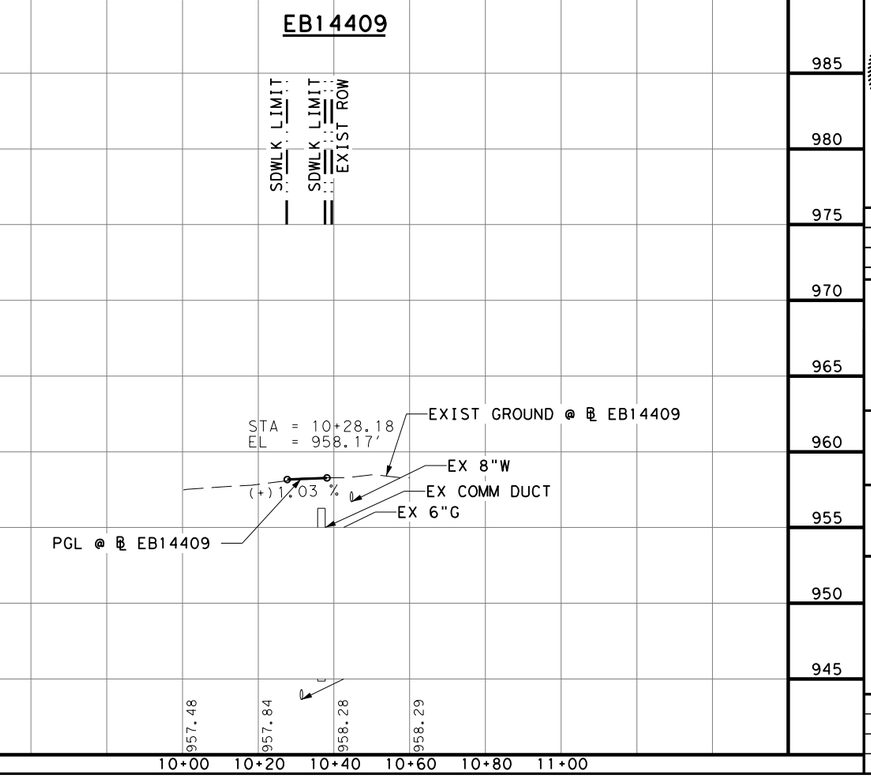
EXIST CONTOUR

PROP CONTOUR

LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT





DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

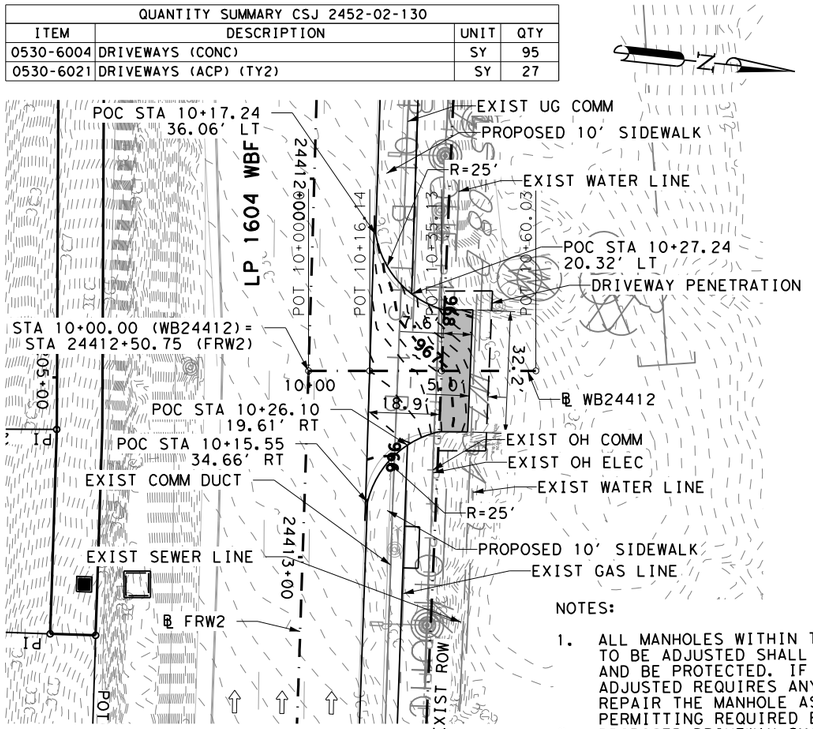
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 4 OF 44

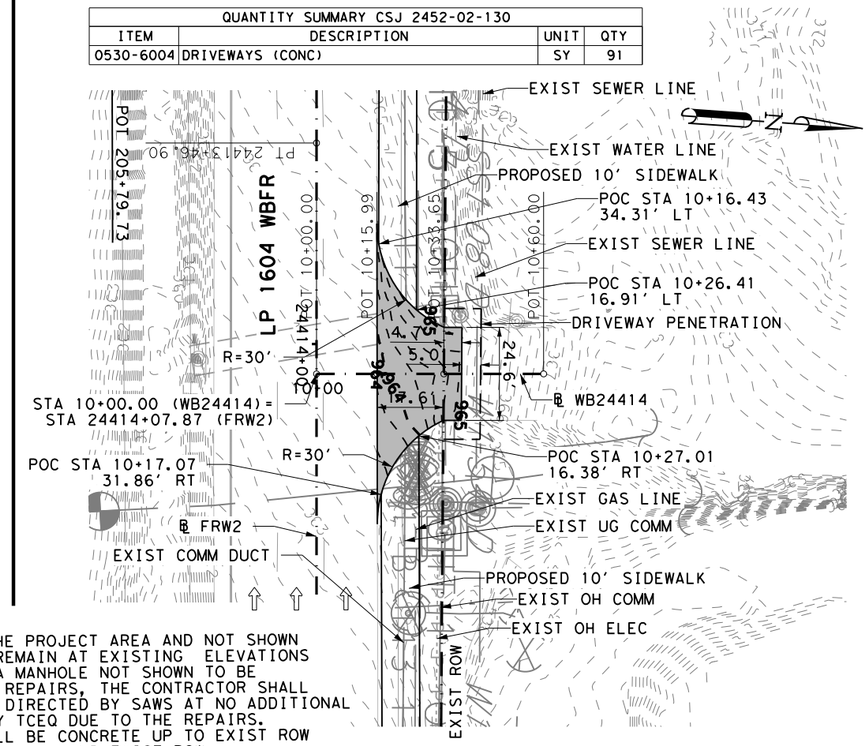
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	918

6:09:51 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_1604_PPDRWY04.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	95
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	27



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	91



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

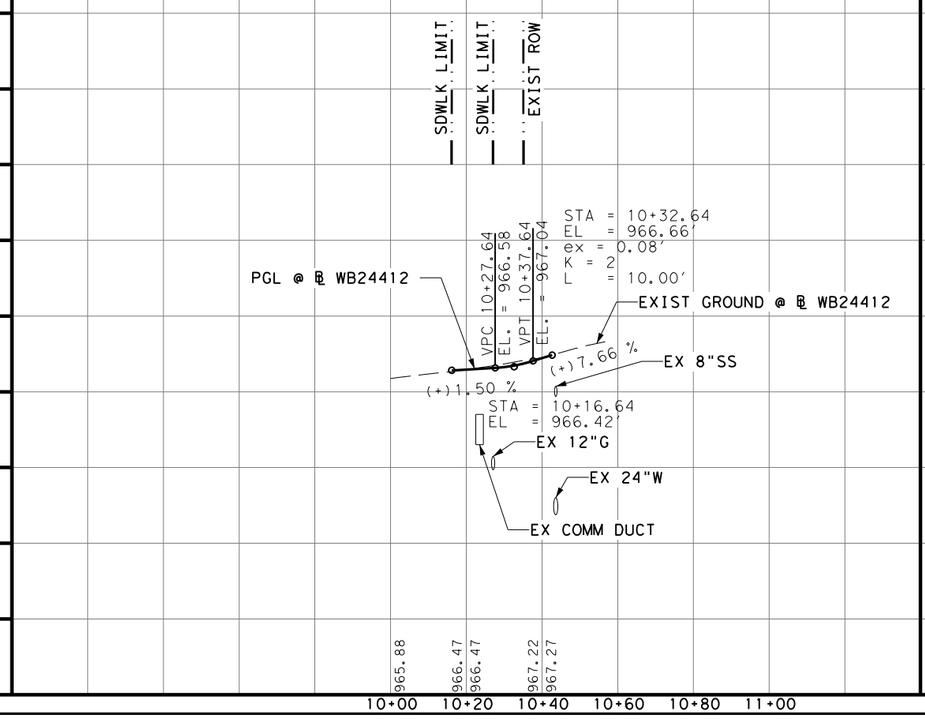
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

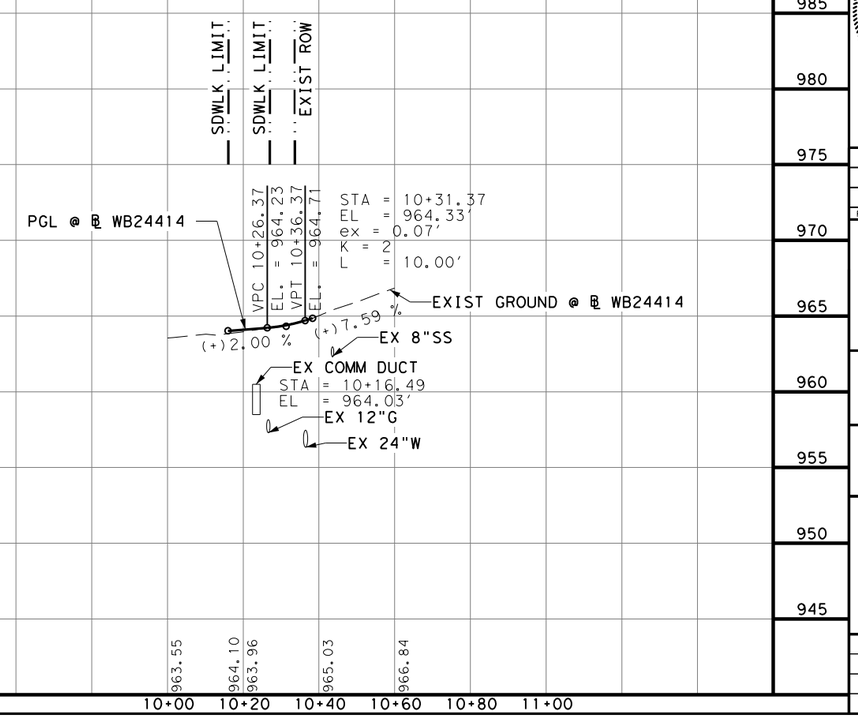
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

WB24412



WB24414



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

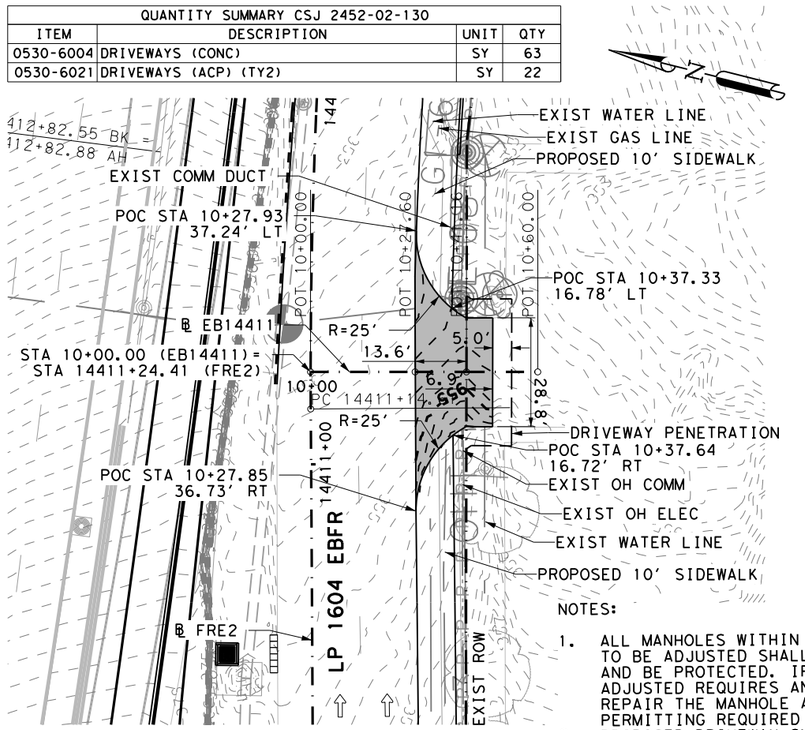
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 5 OF 44

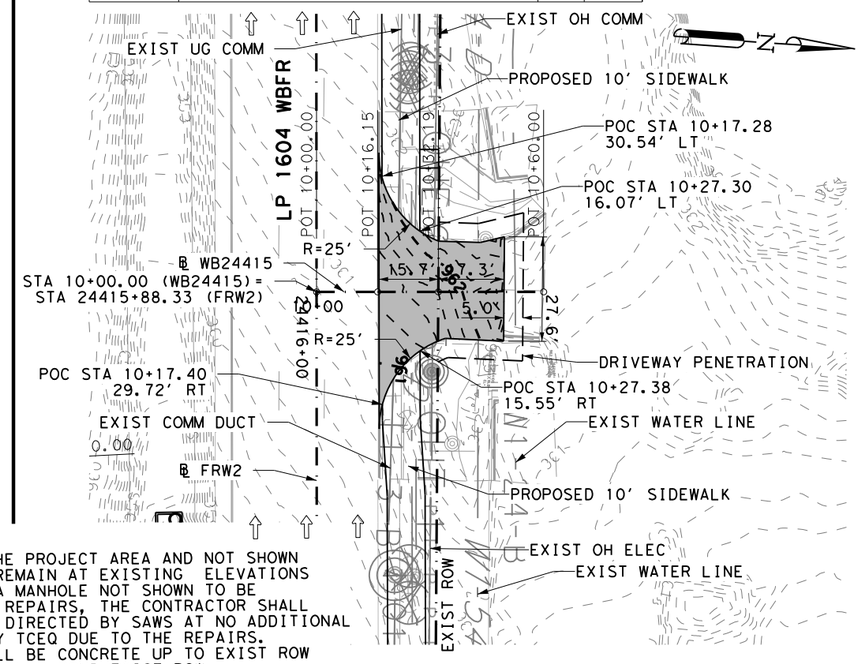
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	919

6:10:37 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY05.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	63
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	22



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	68
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	51



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

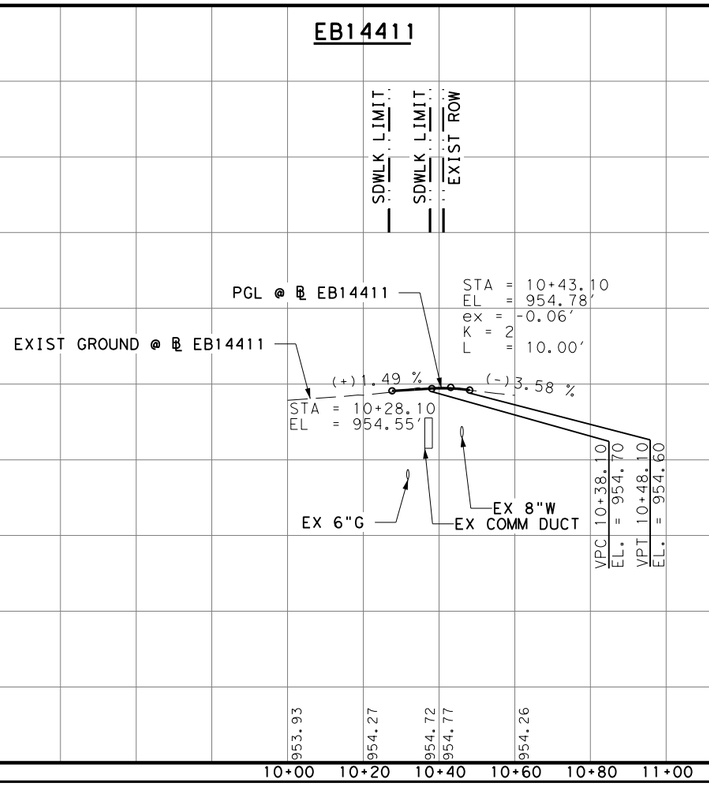
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

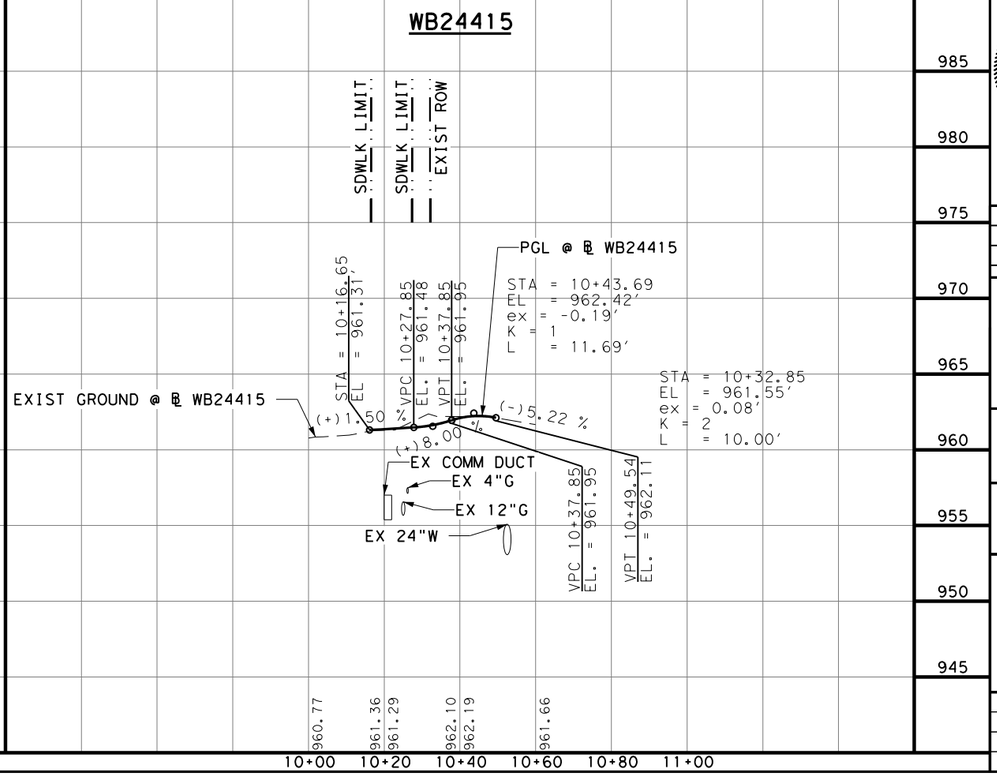
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14411



WB24415



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

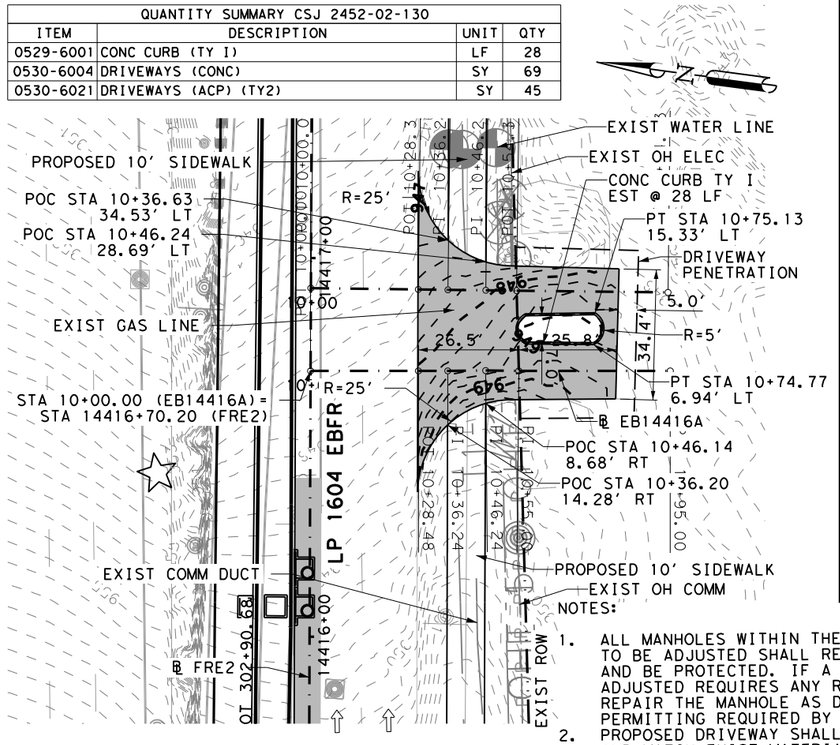
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 6 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	920

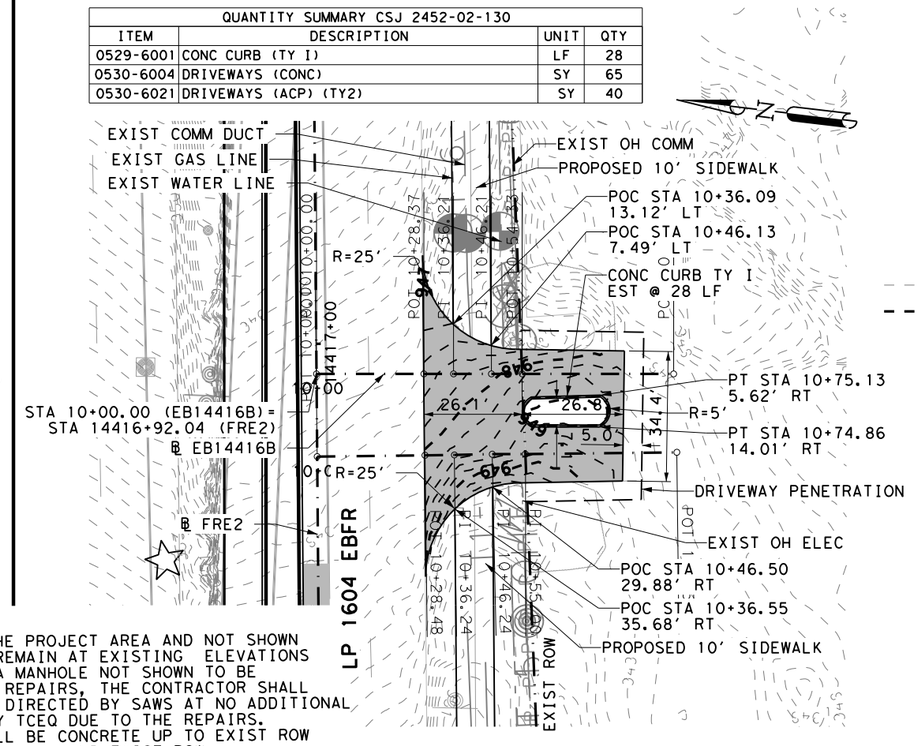
6:11:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY06.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	28
0530-6004	DRIVEWAYS (CONC)	SY	69
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	45



1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	28
0530-6004	DRIVEWAYS (CONC)	SY	65
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	40



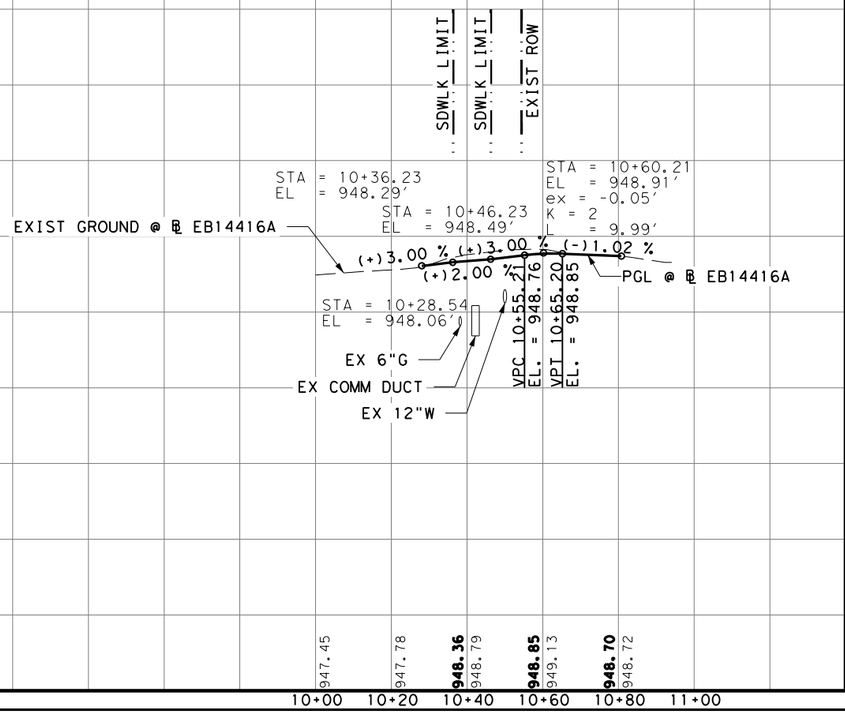
LEGEND

EXIST CONTOUR
PROP CONTOUR

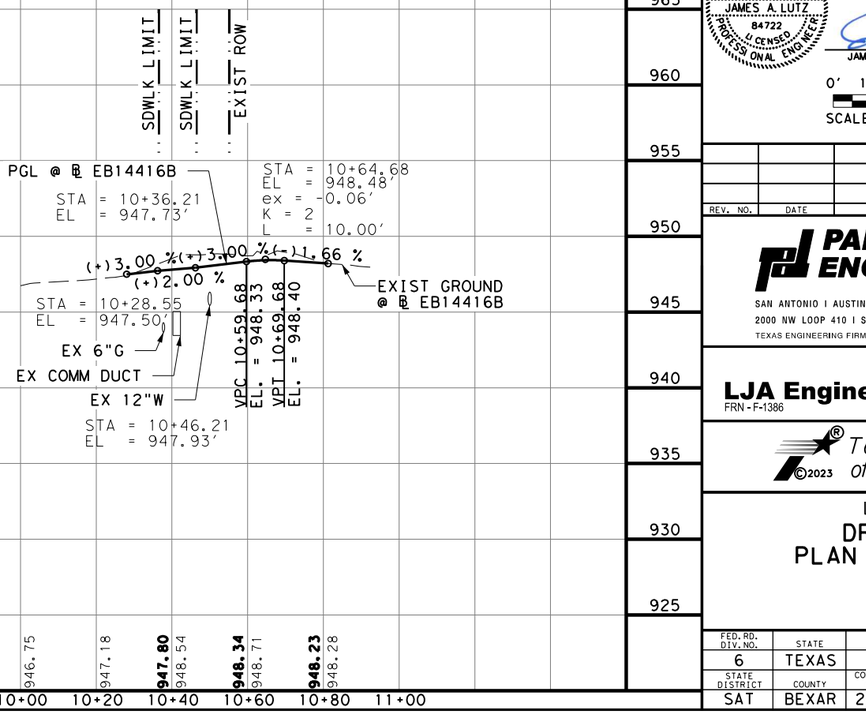
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X — CURVE ID LABEL
XXXXX — DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
T4-1 — CENTURYLINK
T5-1 — CHARTER-SPECTRUM
T7-1 — GRANDE
T8-1 — CONTERRA
T9-1 — MCI-VERIZON
T10-1 — TXDOT TRANSGUIDE
T11-1 — FIBERLIGHT
T13-1 — ZAYO
SI-1-D — TXDOT SIGNALS
OHT-1 — CHARTER-SPECTRUM
OHC-3 — AT&T
OHT-4 — GRANDE
OHT-5 — CENTURYLINK
OHT-06 — CONTERRA
OHT-07 — ZAYO
OHT-09 — CPS
OHT-10 — FIBERLIGHT
OHE-1 — CPS ENERGY
OHE-2 — CPS ENERGY (TRANSMISSION)
E1-1 — CPS ENERGY
E2 — TXDOT

EB14416A



EB14416B



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

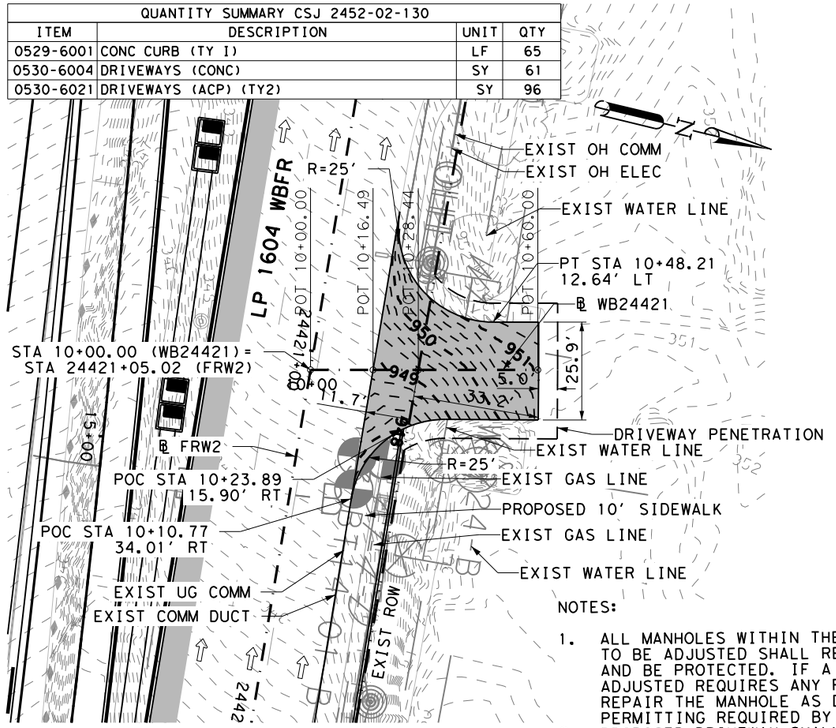
LJA Engineering, Inc.
FRN-F-1386

LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 7 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	921

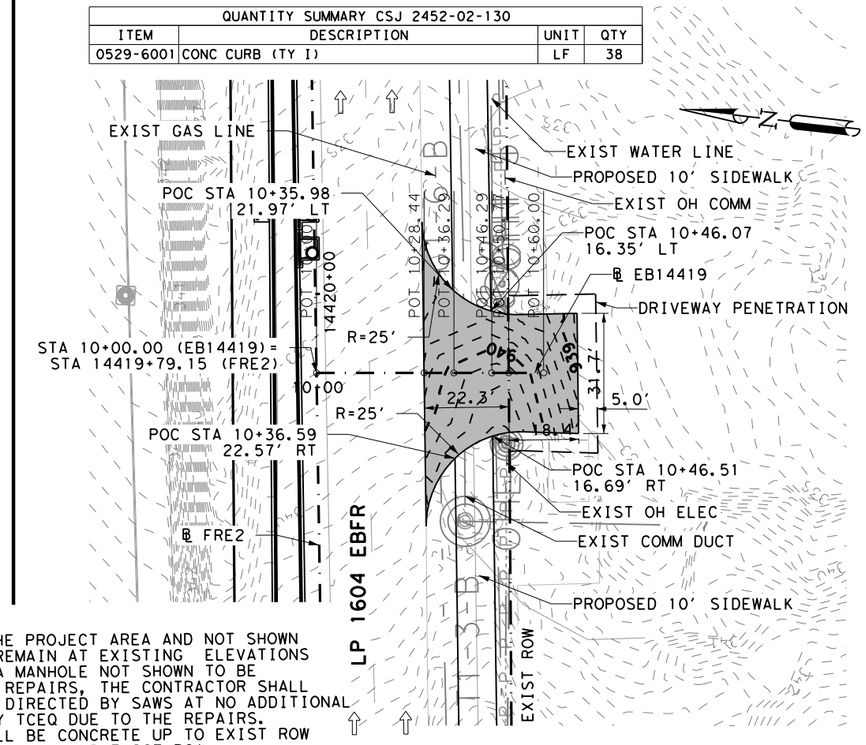
QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	65
0530-6004	DRIVEWAYS (CONC)	SY	61
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	96



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	38



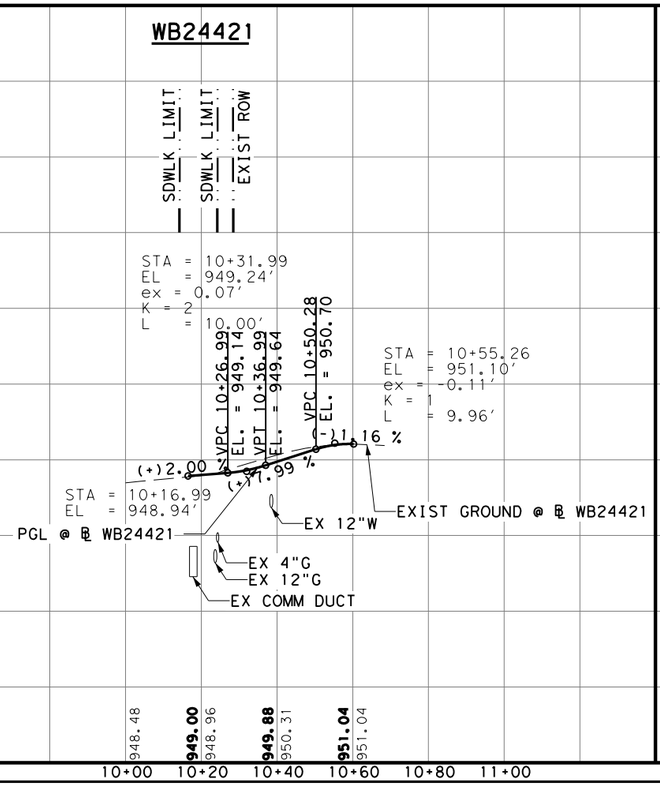
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

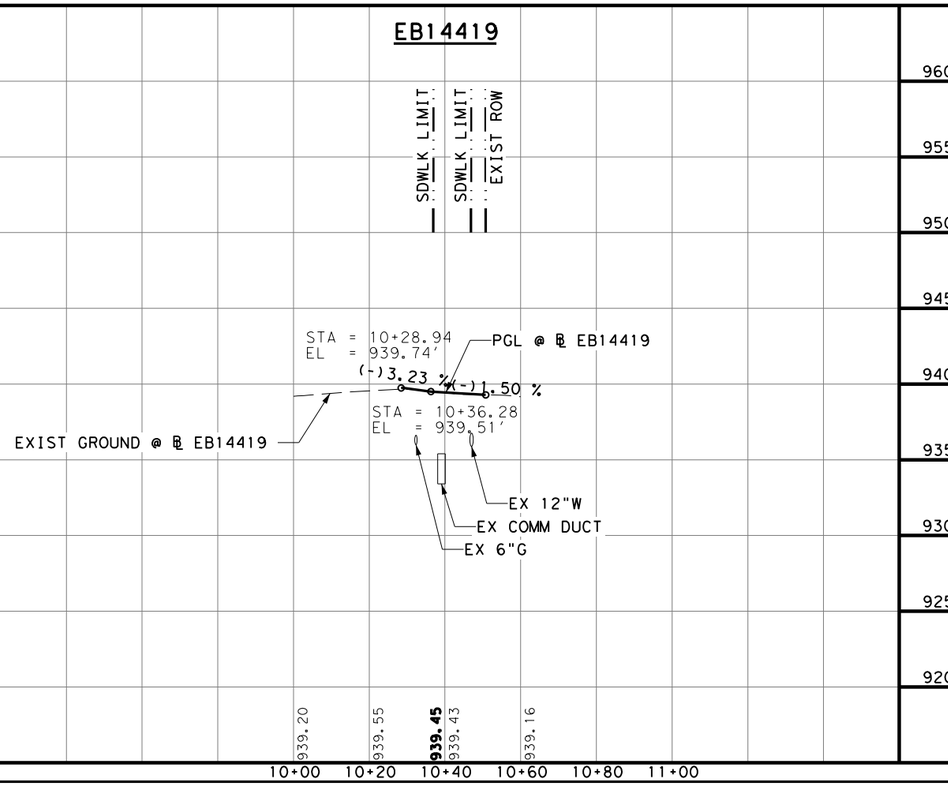
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

WB24421



EB14419



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

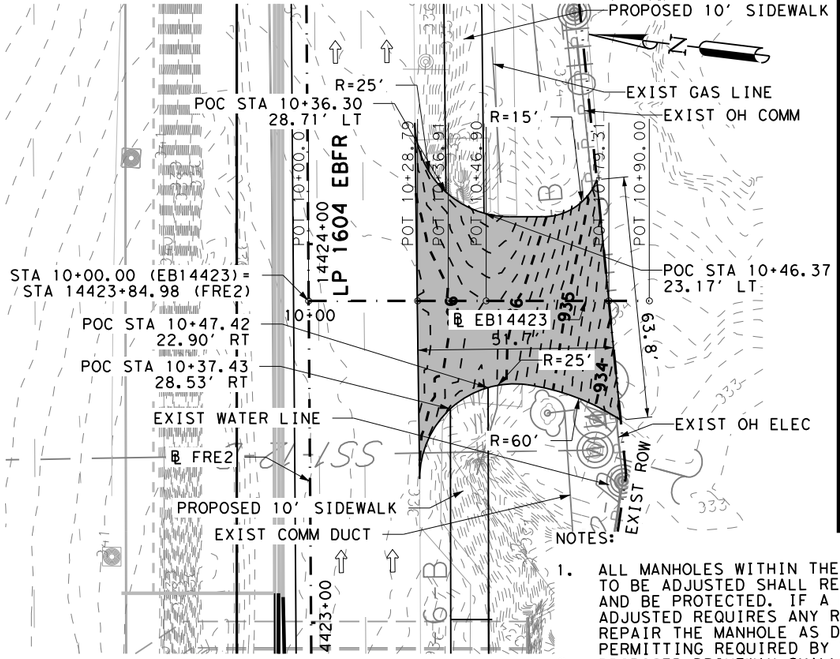
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 8 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	922

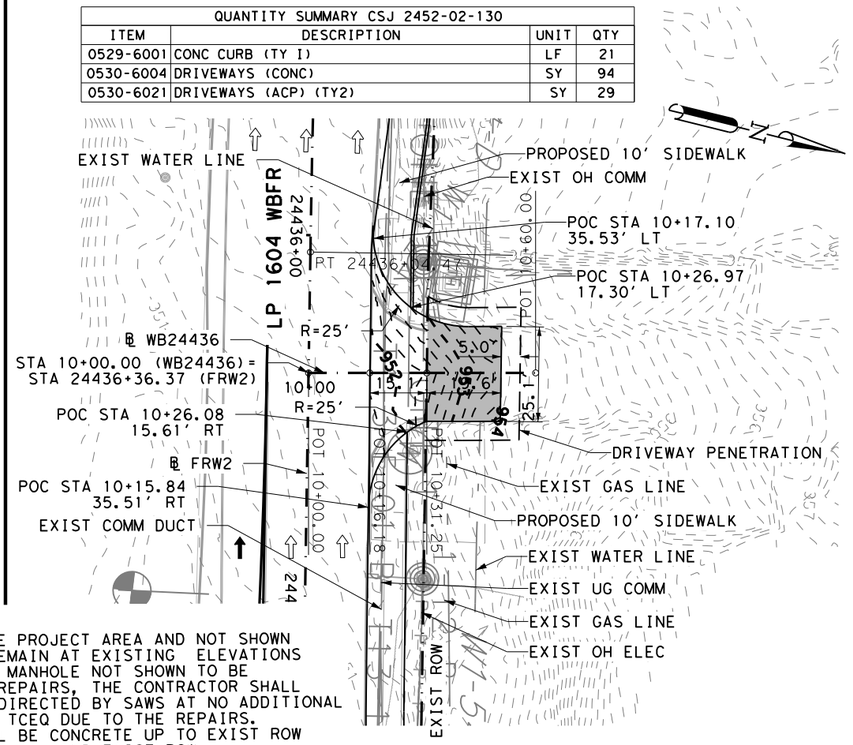
6:12:55 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY08.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	293



1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	21
0530-6004	DRIVEWAYS (CONC)	SY	94
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	29



LEGEND

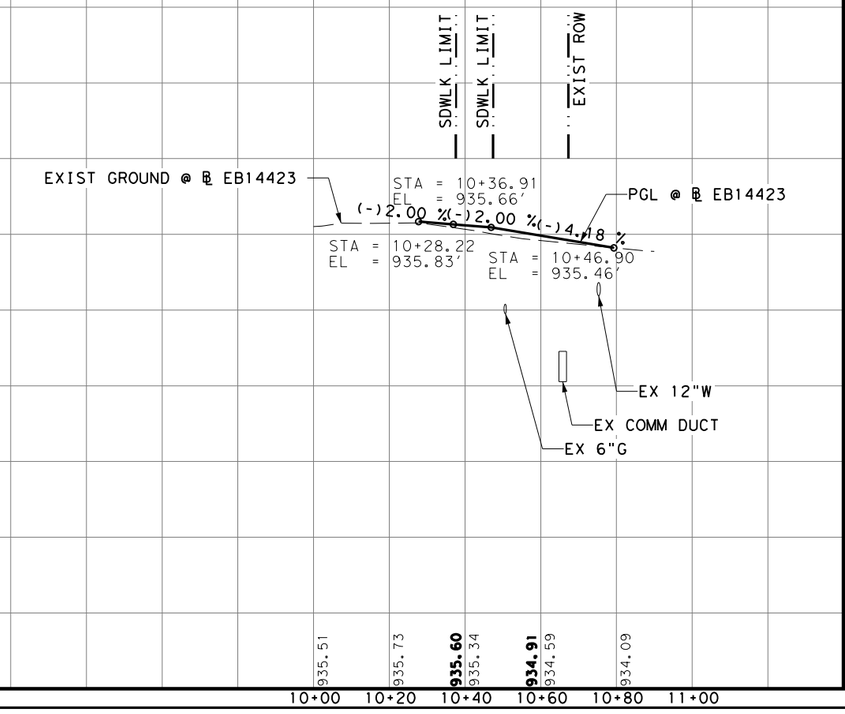
EXIST CONTOUR

PROP CONTOUR

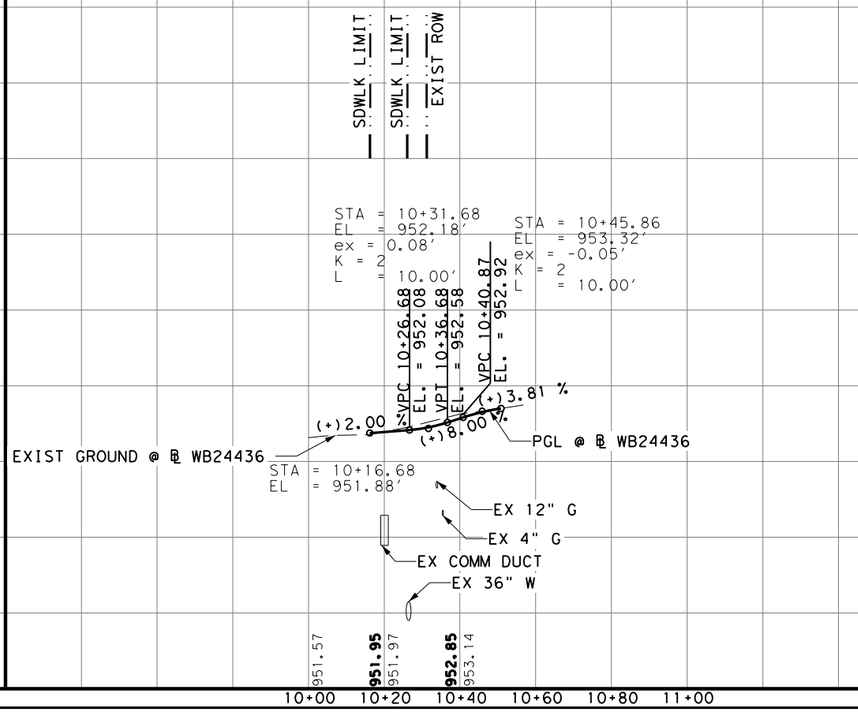
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14423



WB24436



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

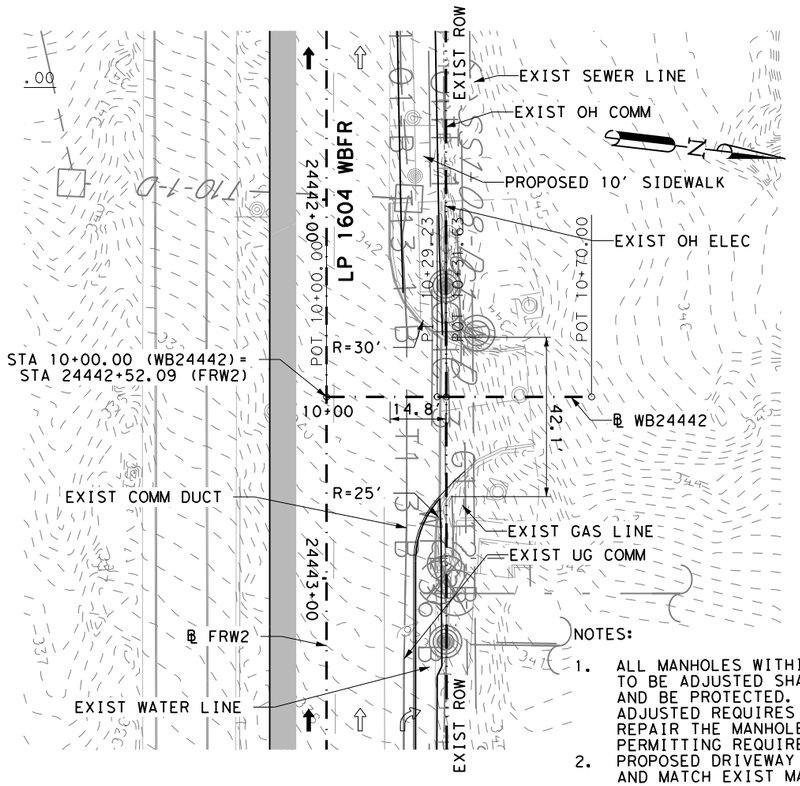
LJA Engineering, Inc.
FRN-F-1386

LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 9 OF 44

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	923

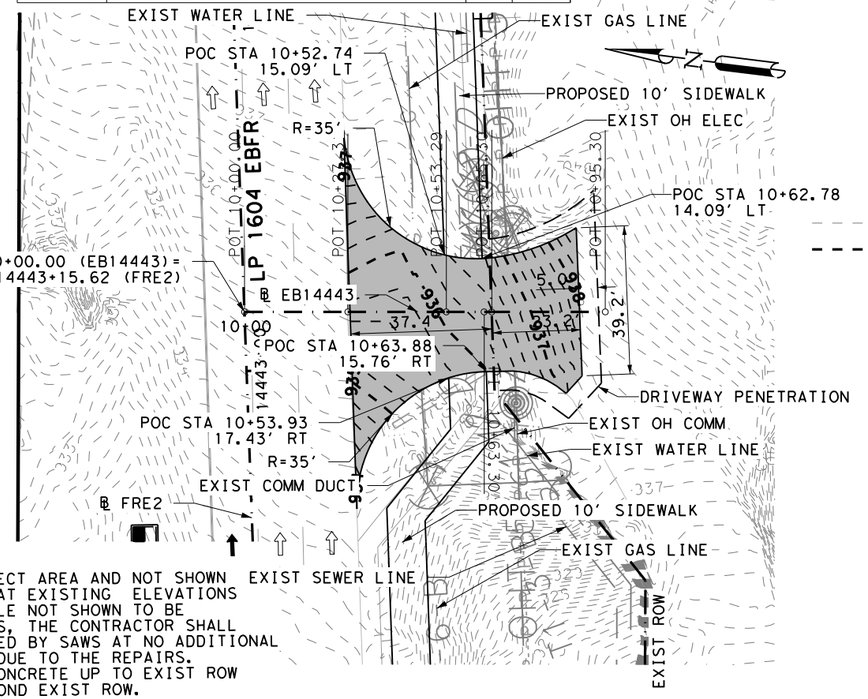
6:13:39 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY09.dgn



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	273



LEGEND

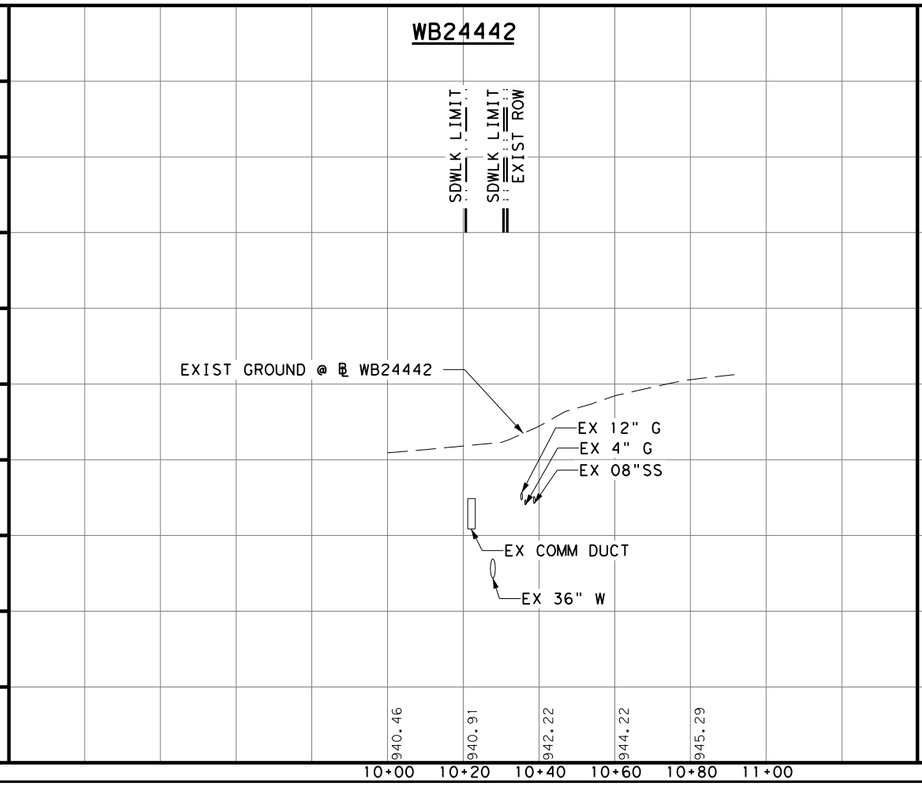
EXIST CONTOUR

PROP CONTOUR

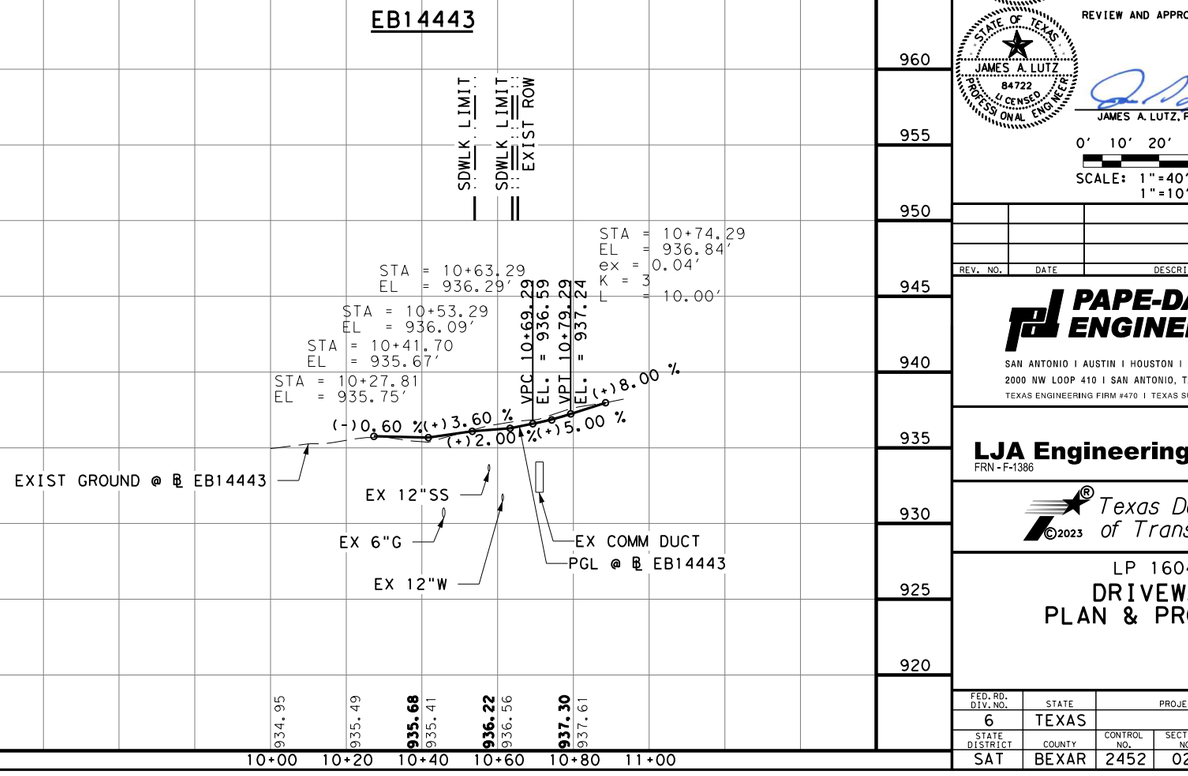
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

WB24442



EB14443



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

 Texas Department of Transportation

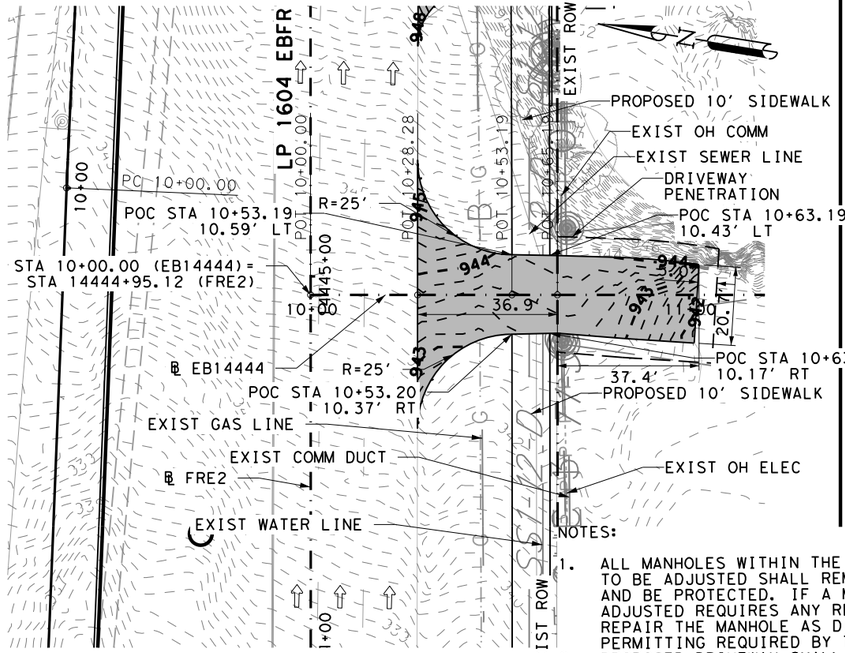
LP 1604
DRIVEWAY
PLAN & PROFILE

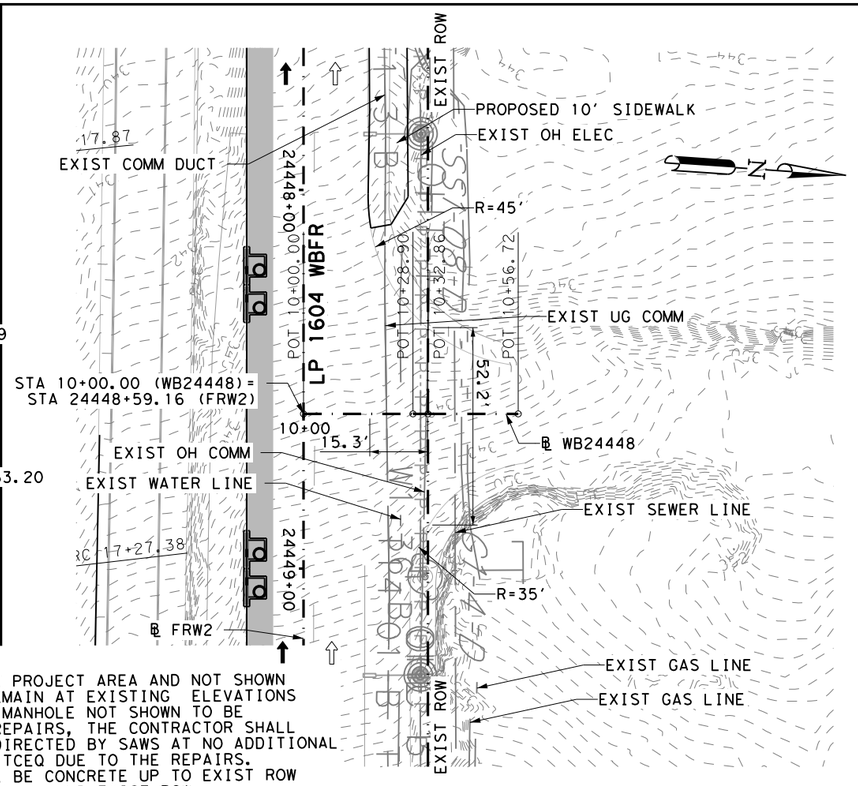
SHEET 10 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	924

6:14:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY10.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	202





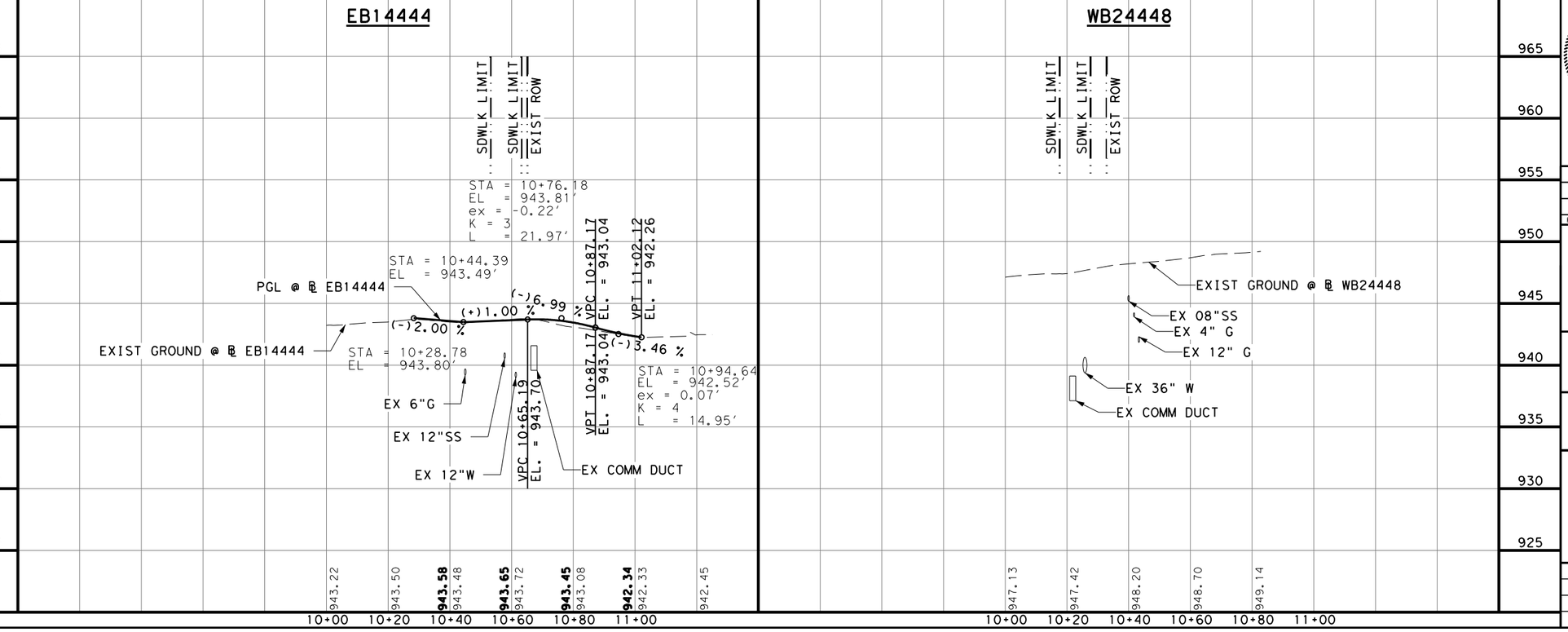
LEGEND

EXIST CONTOUR

PROP CONTOUR

LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT



STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

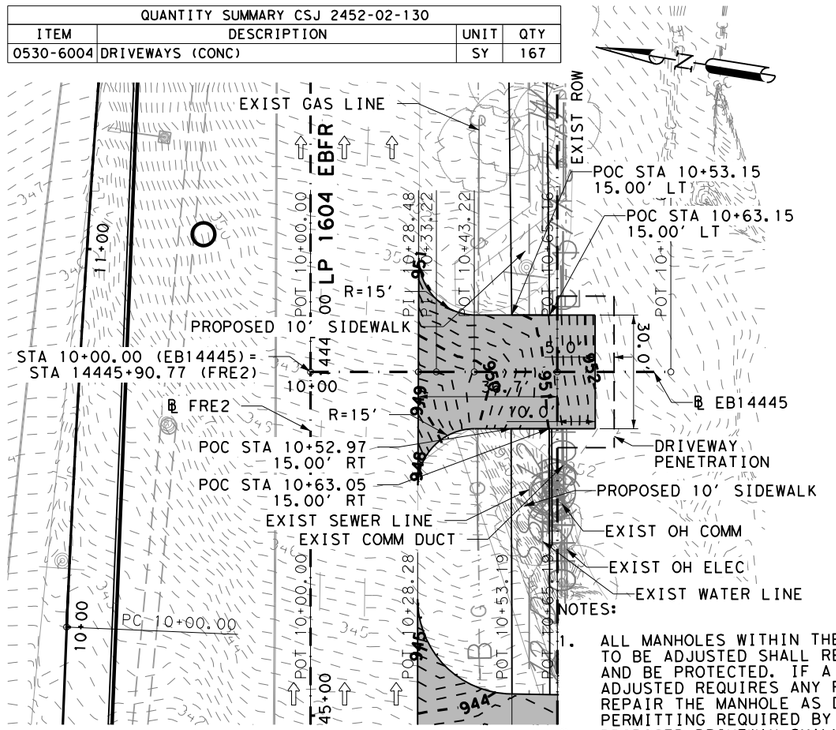
LP 1604

DRIVEWAY PLAN & PROFILE

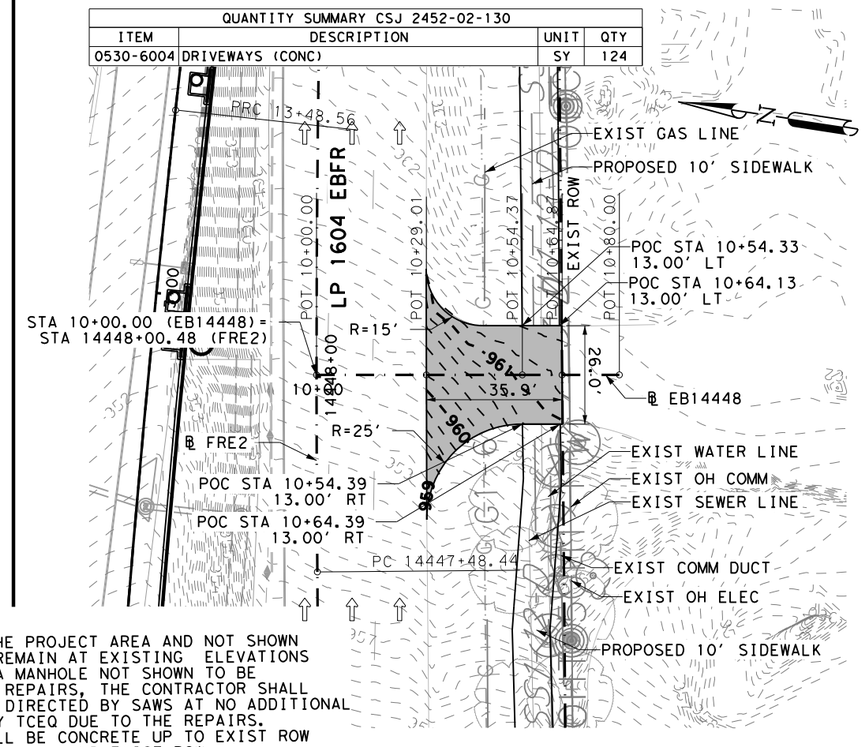
SHEET 11 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	925

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	167



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	124



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

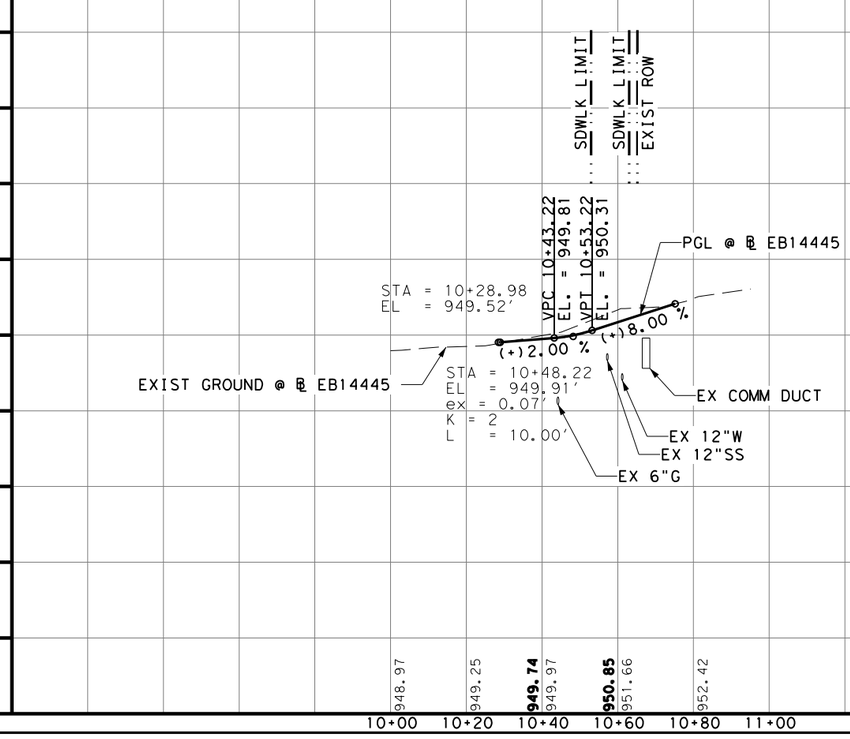
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

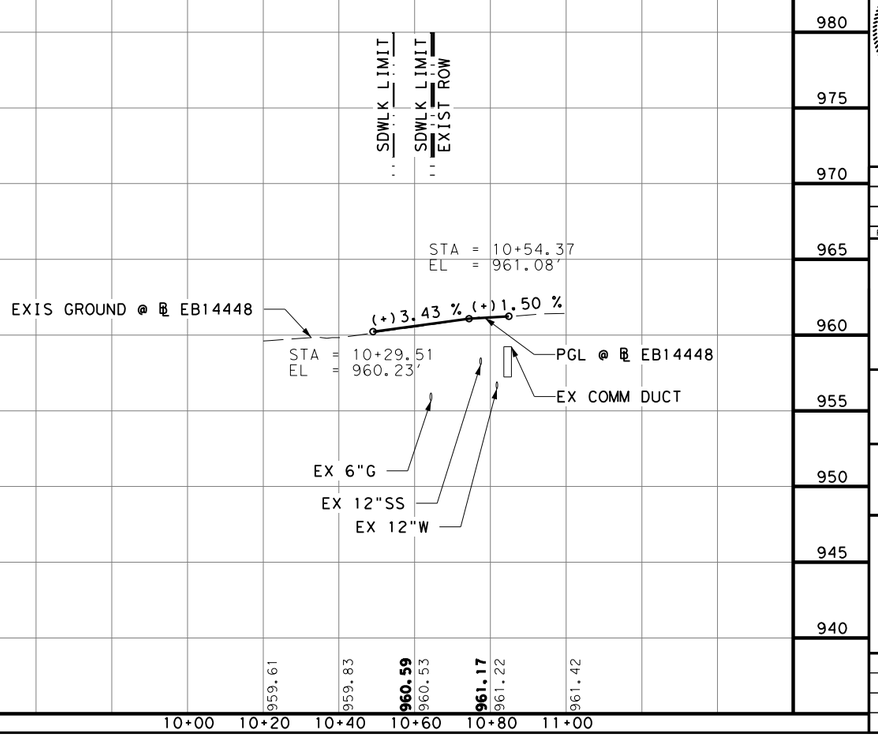
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14445



EB14448



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

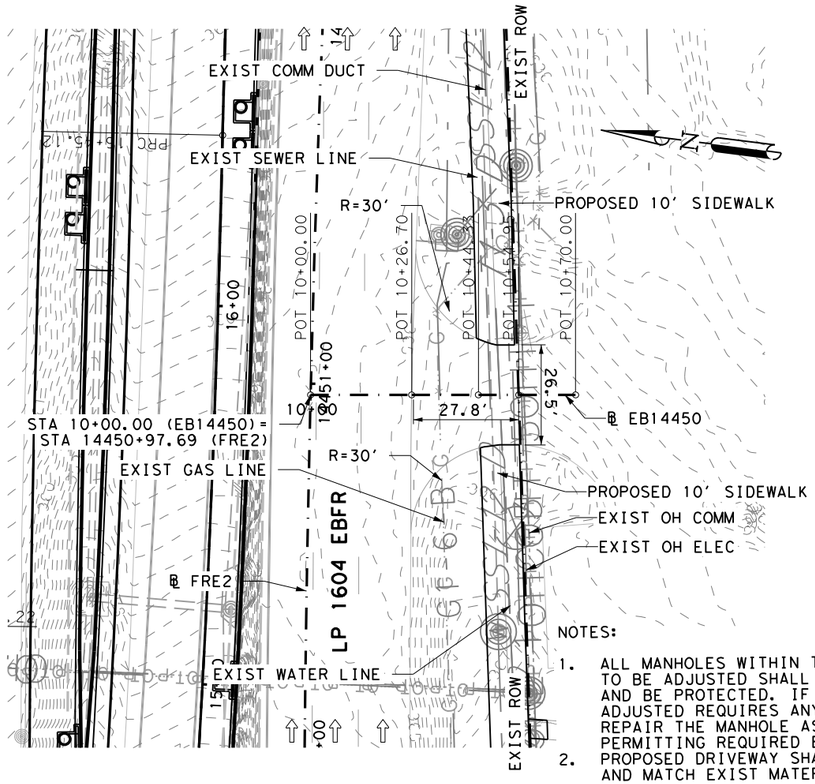
©2023 Texas Department of Transportation

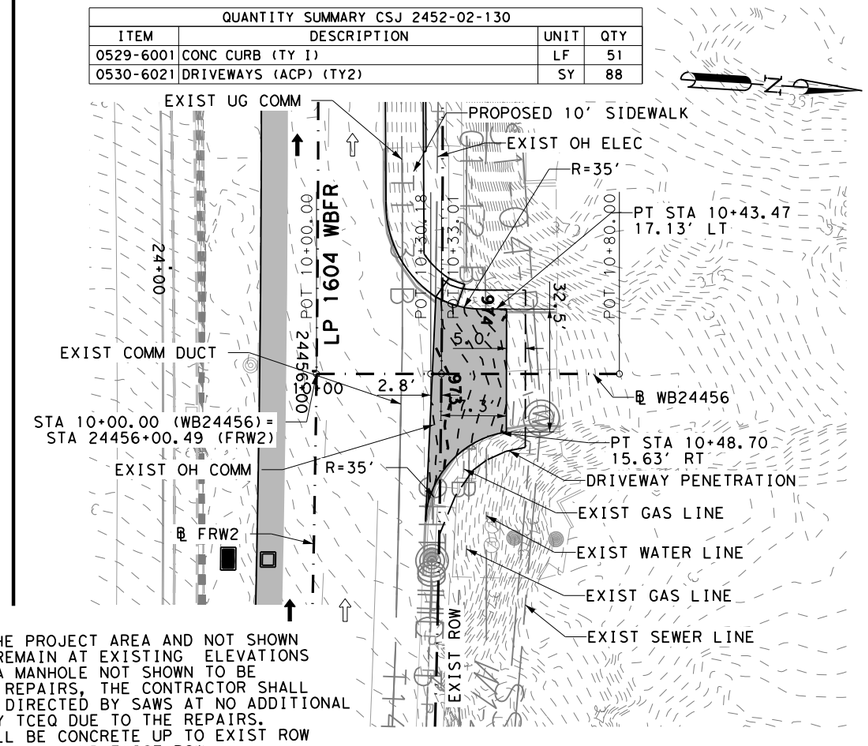
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 12 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	926

v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY12.dgn
2/28/2023
6:15:54 PM





QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	51
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	88

NOTES:

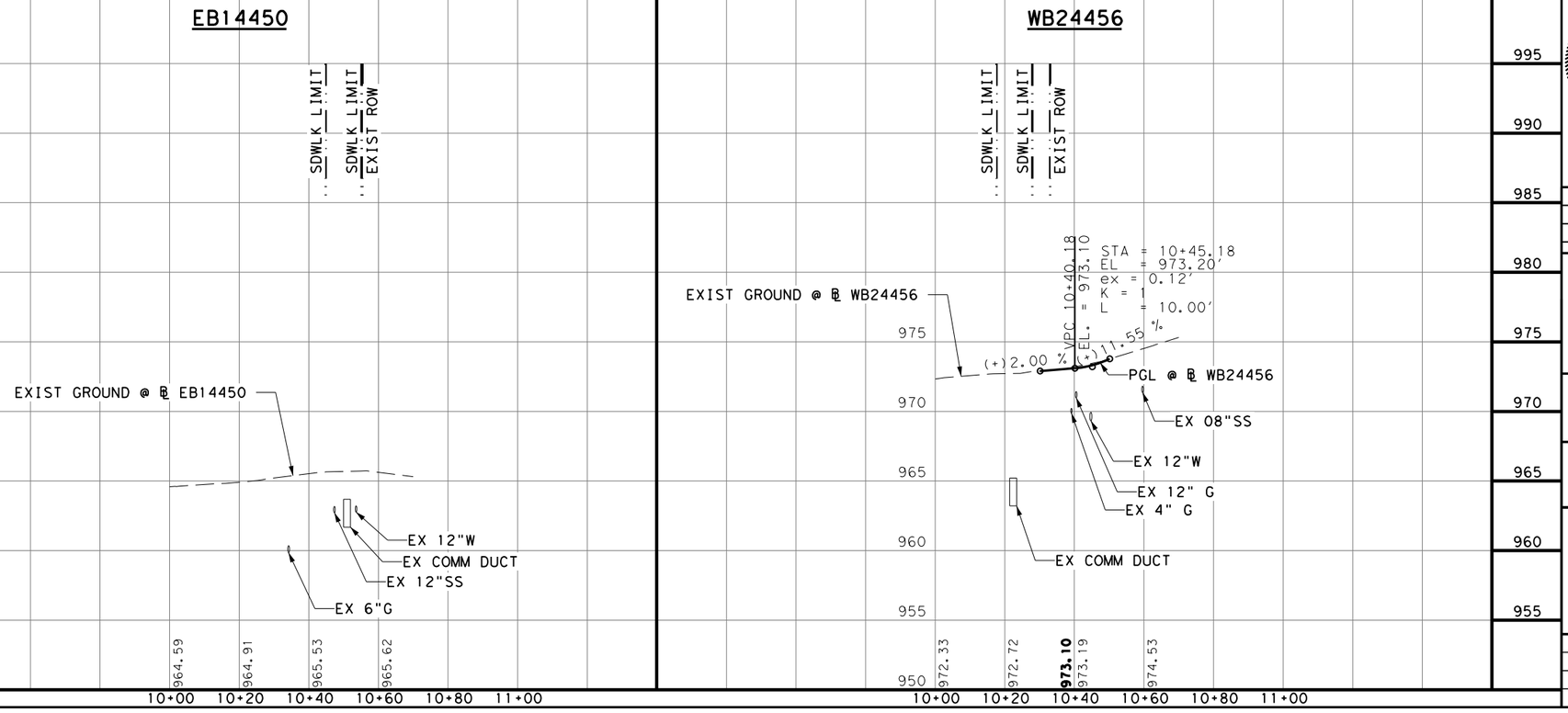
1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

LEGEND

- EXIST CONTOUR
- PROP CONTOUR



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

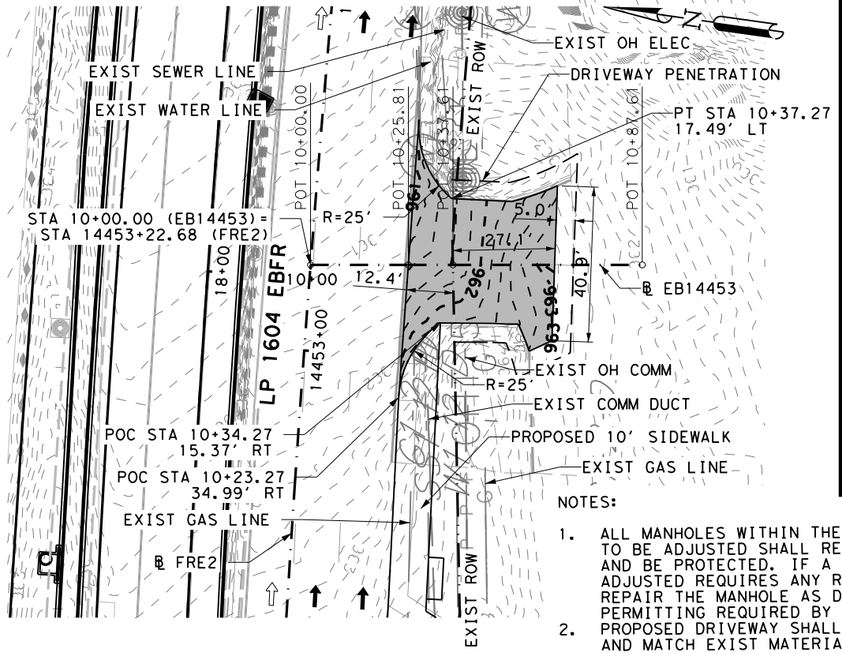
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 13 OF 44

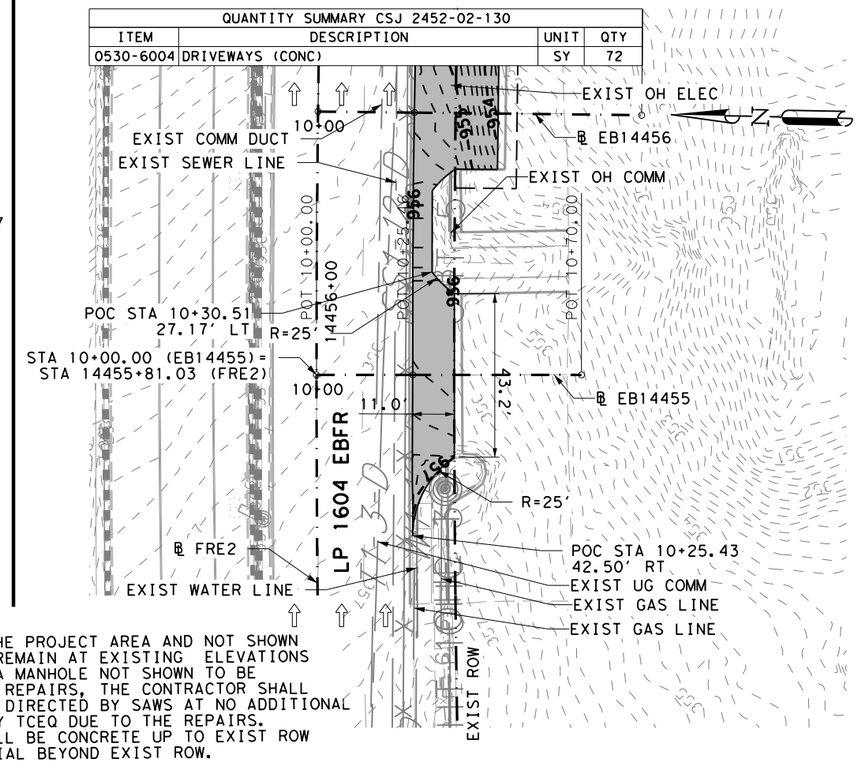
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	927

6:16:45 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY13.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	31
0530-6004	DRIVEWAYS (CONC)	SY	108
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	53



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	72



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

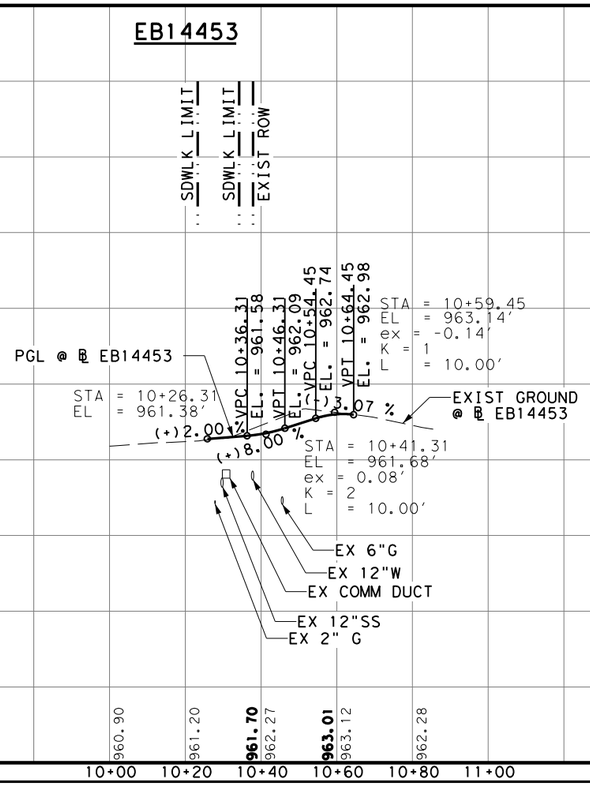
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

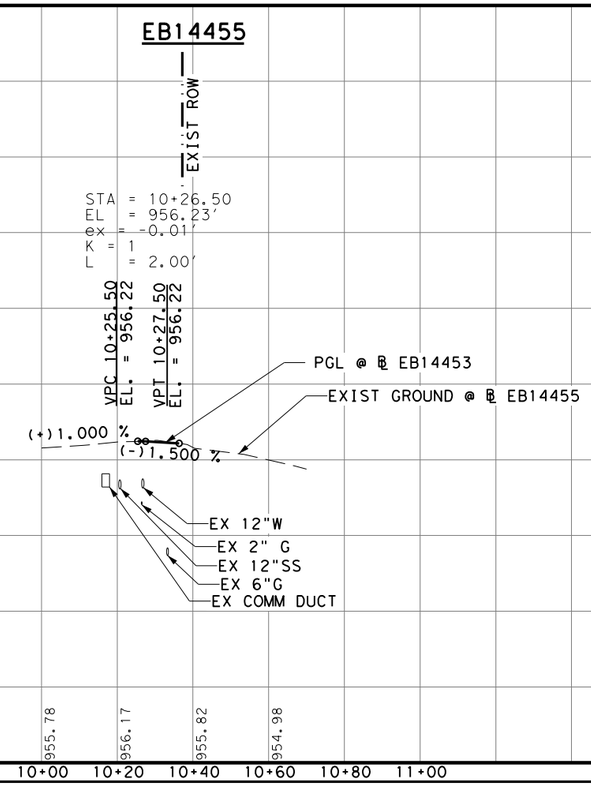
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14453



EB14455



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

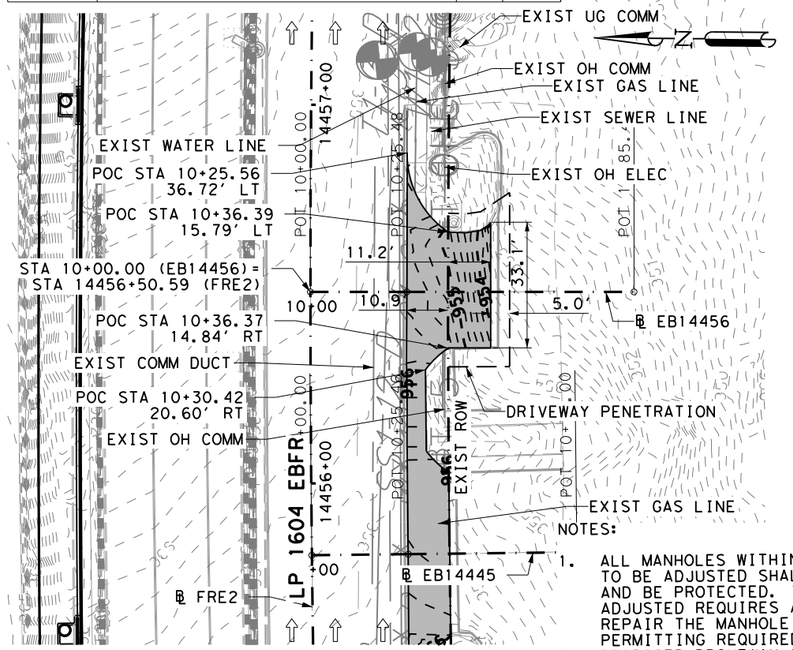
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 14 OF 44

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	928

6:17:32 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY14.dgn

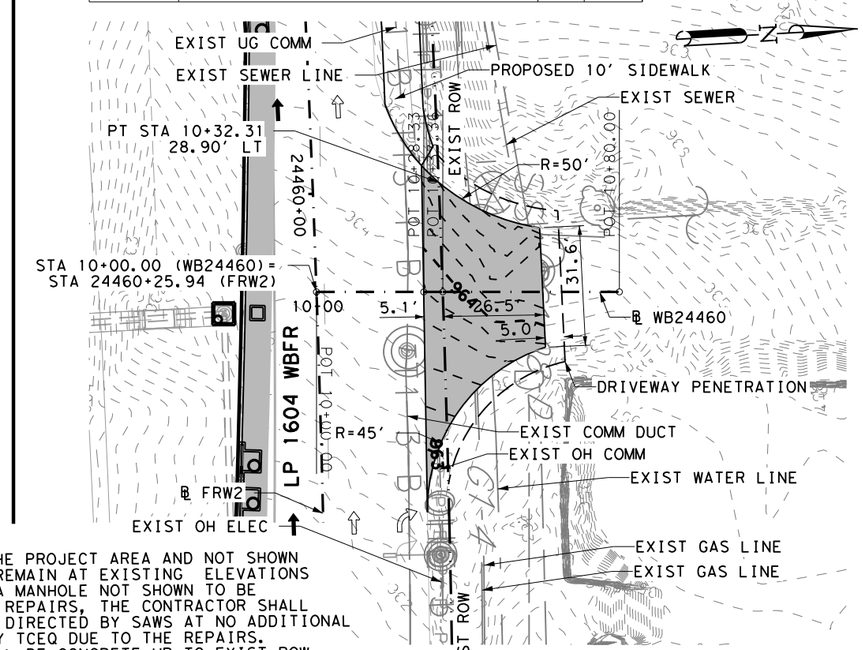
QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	12
0530-6004	DRIVEWAYS (CONC)	SY	94



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	93
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	172



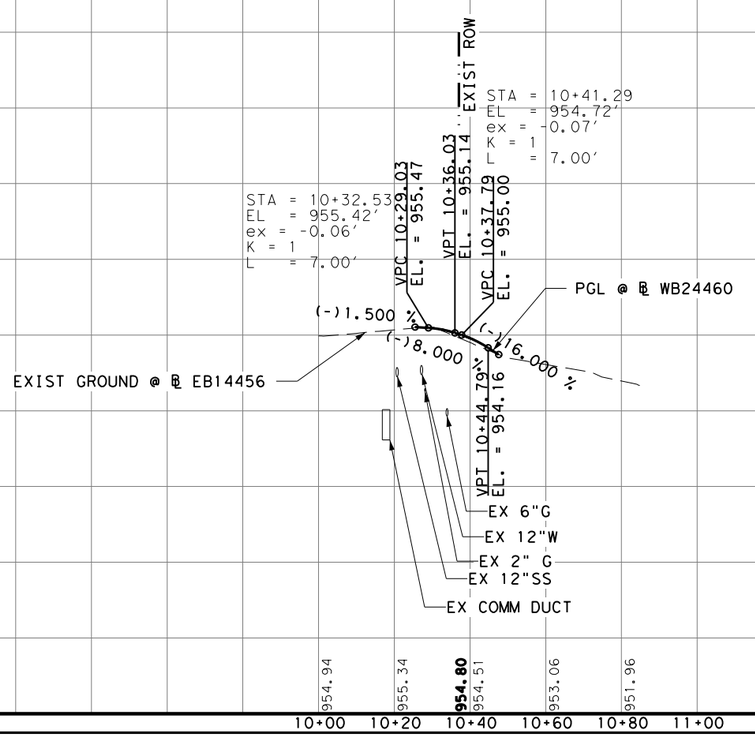
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

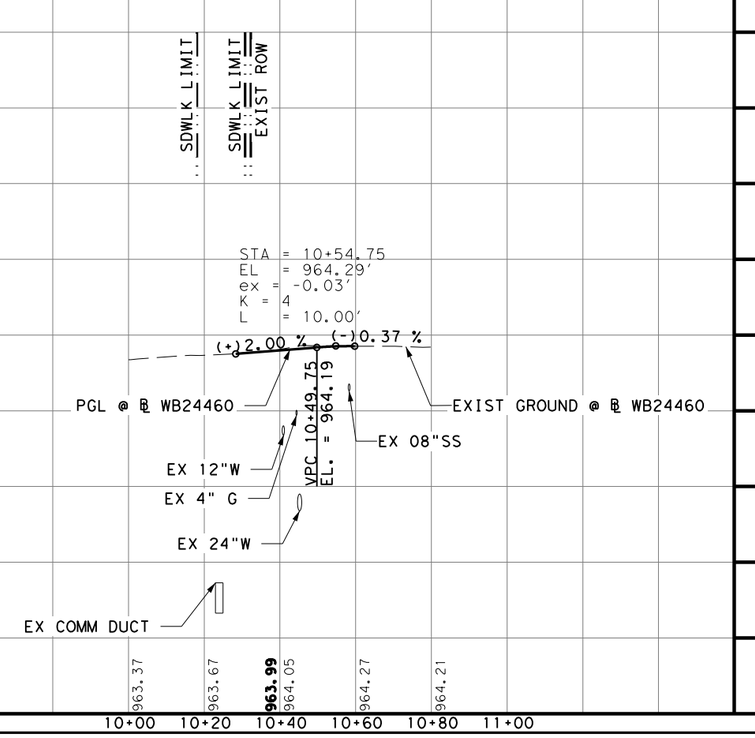
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14456



WB24460



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

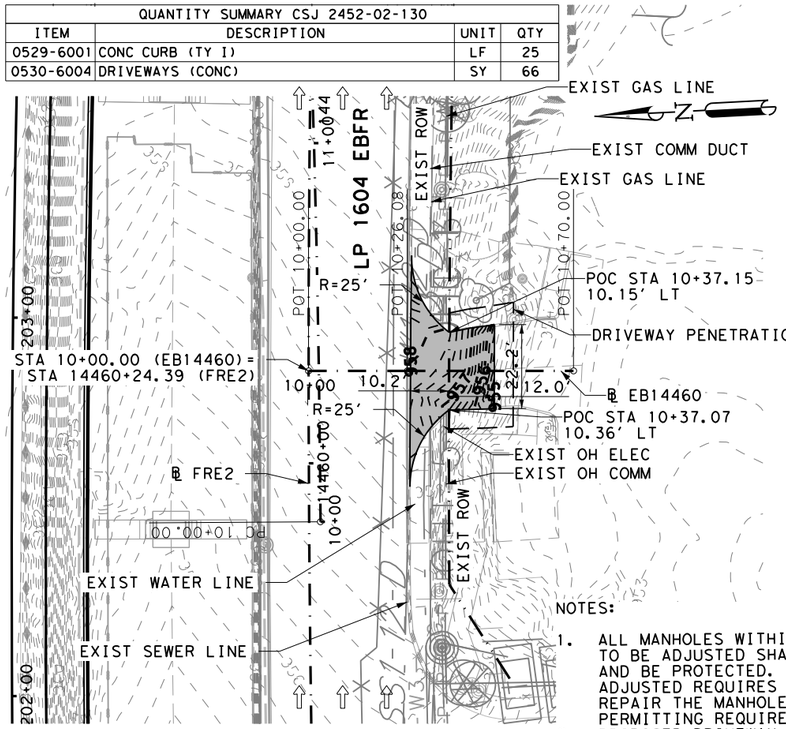
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 15 OF 44

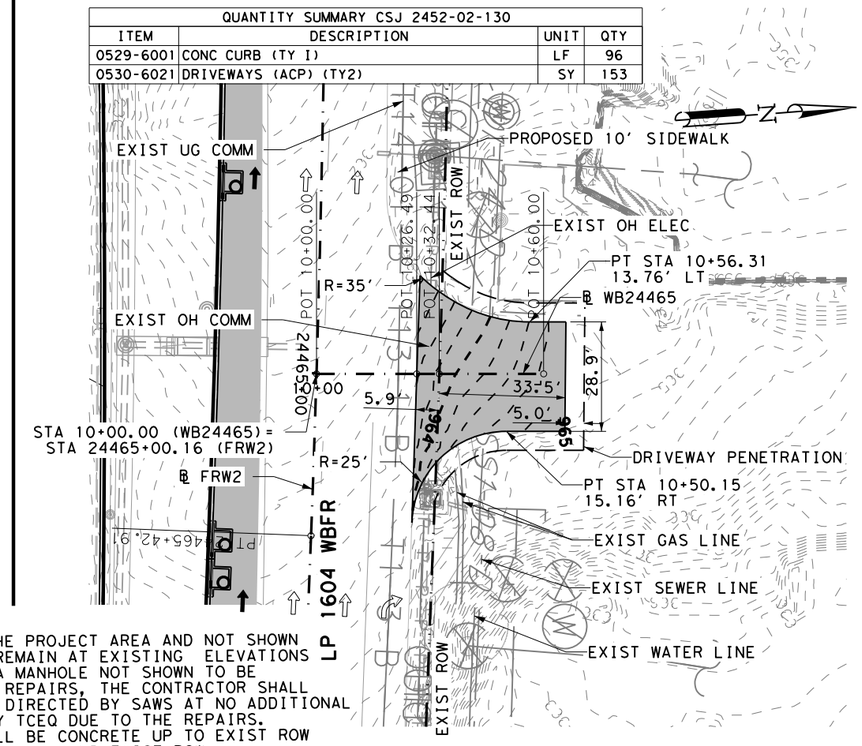
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	929

6:18:18 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l30_1604_PPDRWY15.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	25
0530-6004	DRIVEWAYS (CONC)	SY	66



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	96
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	153



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

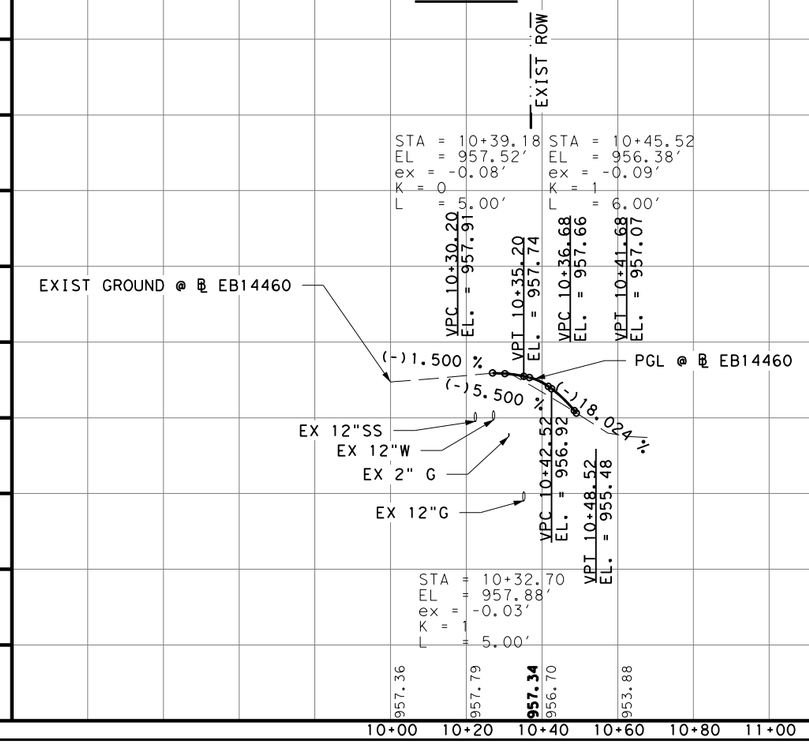
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

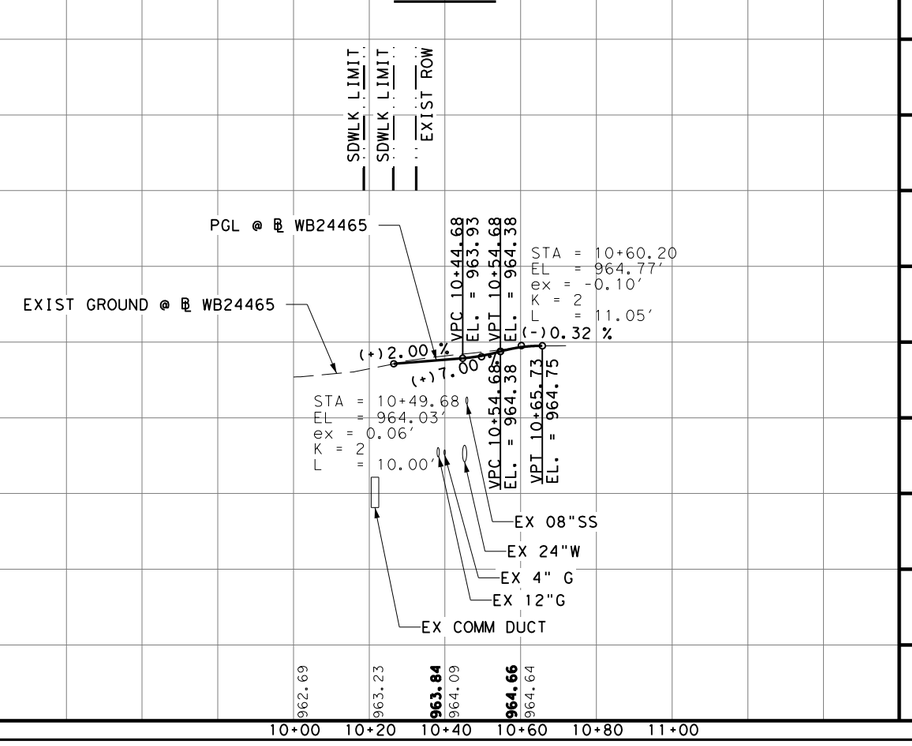
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14460



WB24465



DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

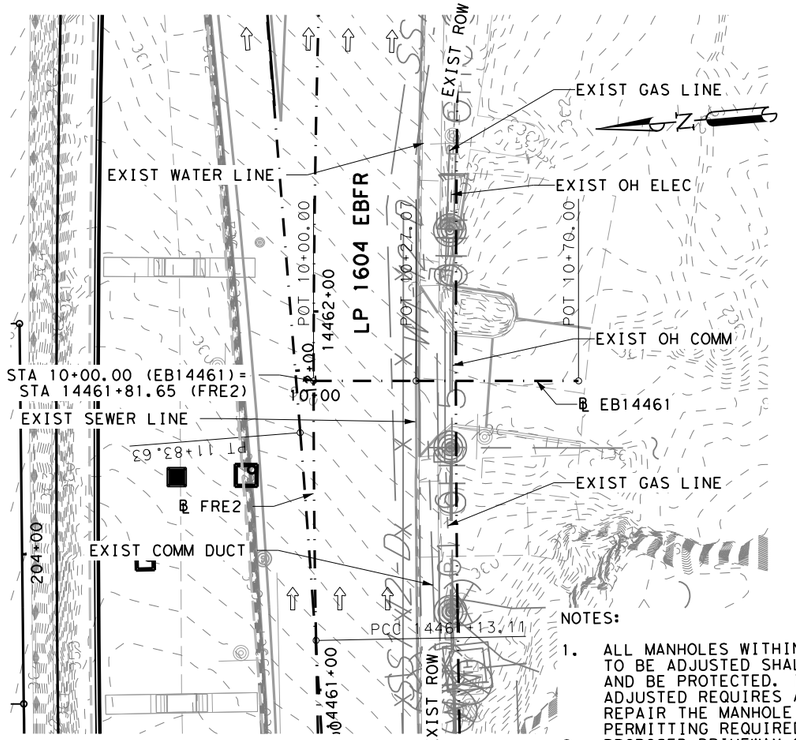
©2023 Texas Department of Transportation

LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 16 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	930

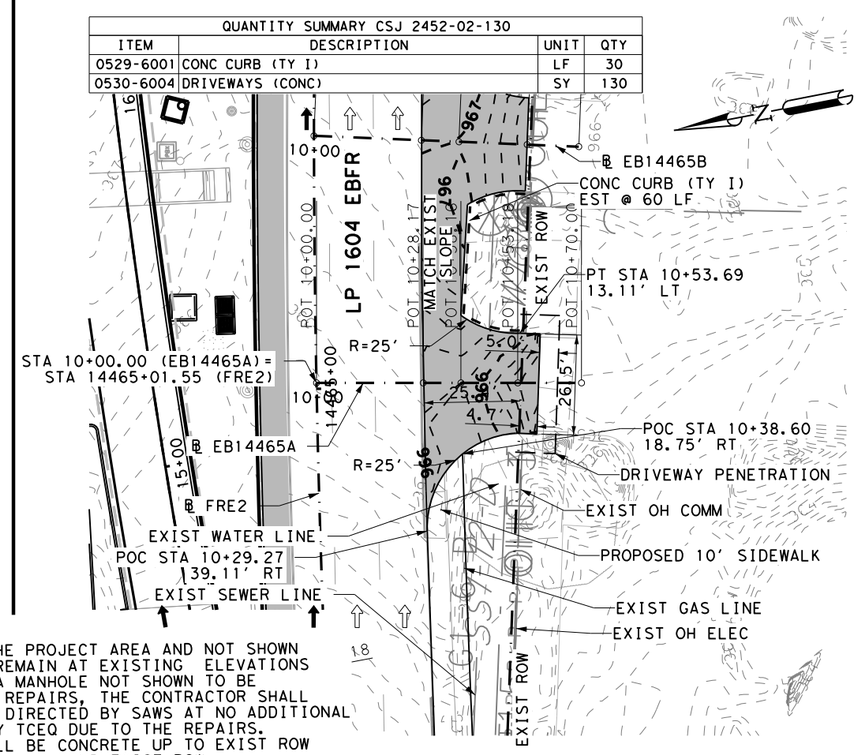
8:17:24 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY16.dgn



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	30
0530-6004	DRIVEWAYS (CONC)	SY	130



LEGEND

EXIST CONTOUR

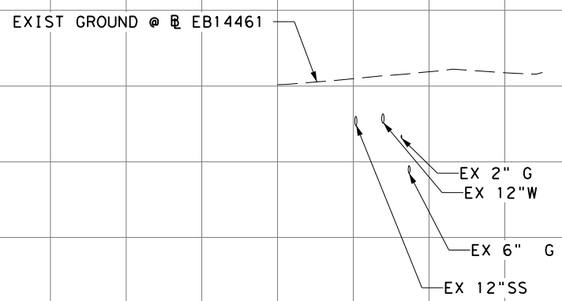
PROP CONTOUR

LEGEND:

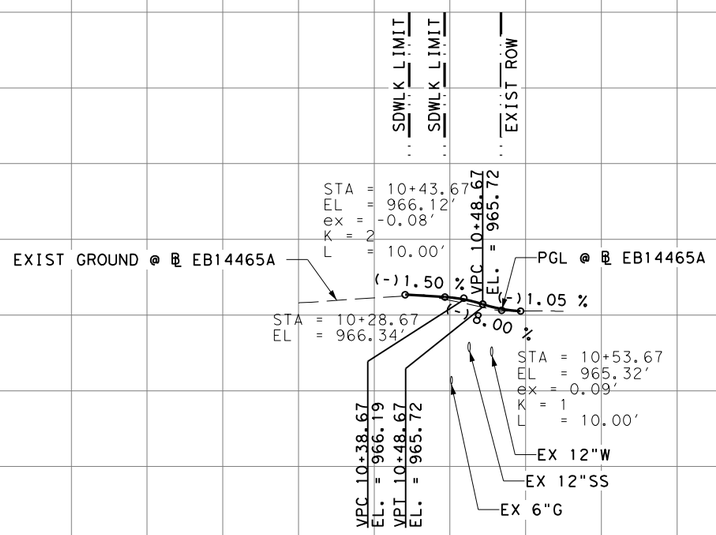
EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14461

REQUESTED SURVEY TO VERIFY ROW



EB14465A



10+00 10+20 10+40 10+60 10+80 11+00

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

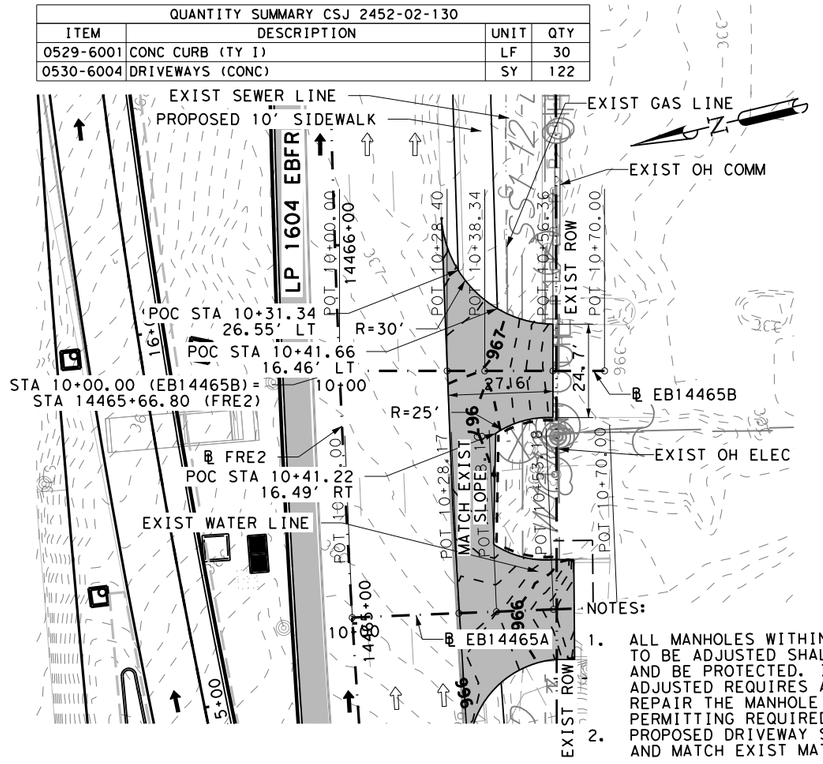
DRIVEWAY PLAN & PROFILE

SHEET 17 OF 44

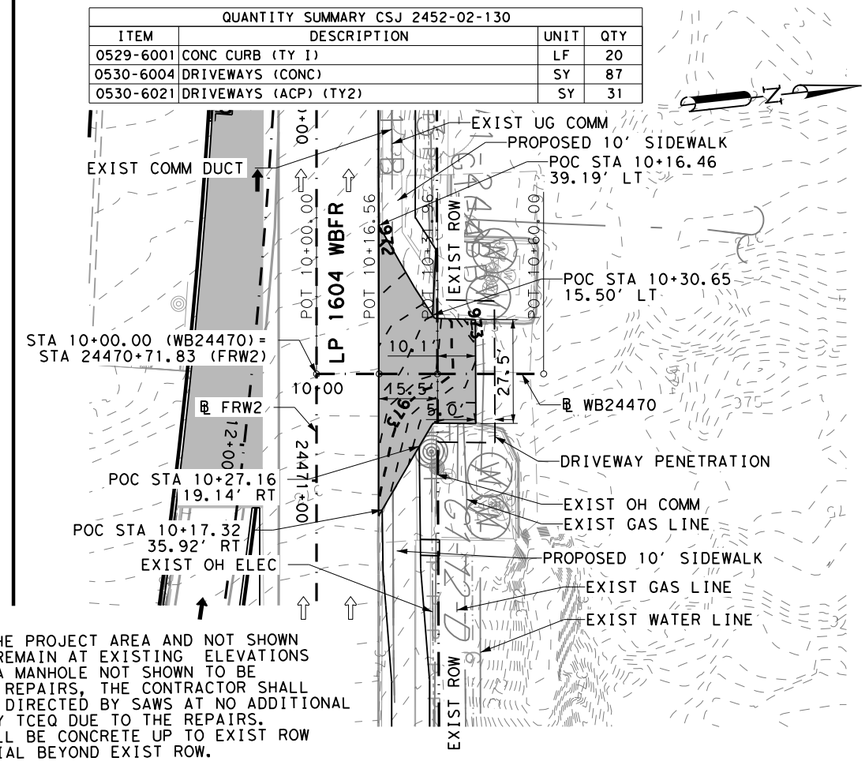
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	931

6:19:50 PM 2/28/2023
V:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY17.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	30
0530-6004	DRIVEWAYS (CONC)	SY	122



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	20
0530-6004	DRIVEWAYS (CONC)	SY	87
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	31



LEGEND

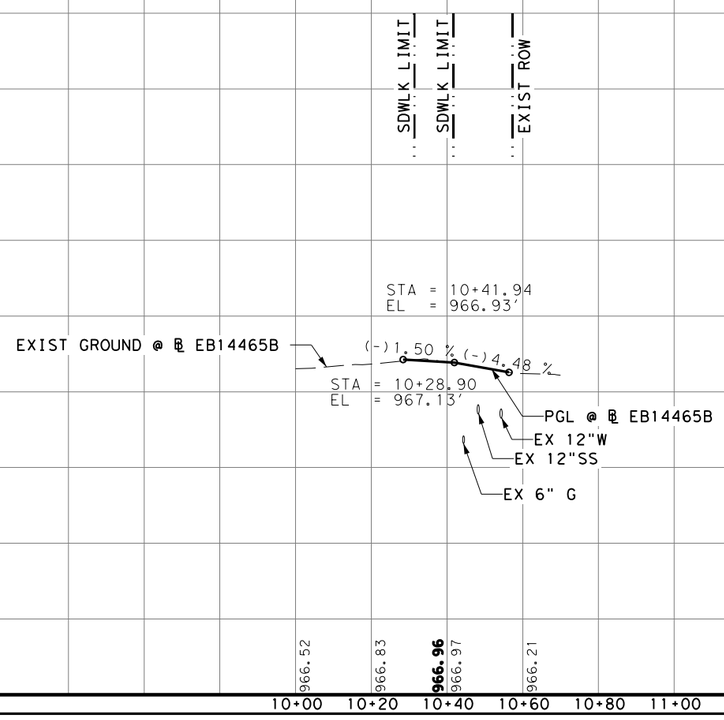
EXIST CONTOUR

PROP CONTOUR

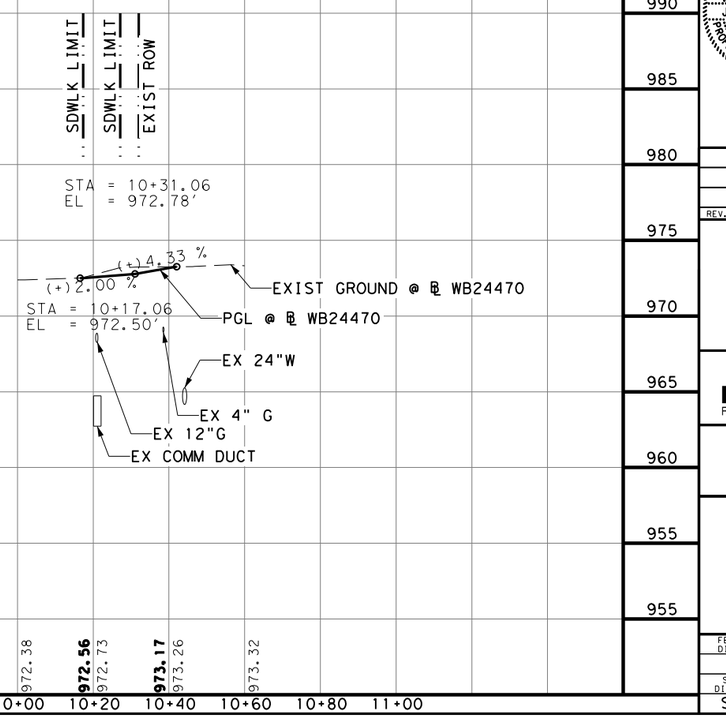
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X — CURVE ID LABEL
XXXXX — DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
T4-1 — CENTURYLINK
T5-1 — CHARTER-SPECTRUM
T7-1 — GRANDE
T8-1 — CONTERRA
T9-1 — MCI-VERIZON
T10-1 — TXDOT TRANSGUIDE
T11-1 — FIBERLIGHT
T13-1 — ZAYO
SI-1-D — TXDOT SIGNALS
OHT-1 — CHARTER-SPECTRUM
OHC-3 — AT&T
OHT-4 — GRANDE
OHT-5 — CENTURYLINK
OHT-06 — CONTERRA
OHT-07 — ZAYO
OHT-09 — CPS
OHT-10 — FIBERLIGHT
OHE-1 — CPS ENERGY
OHE-2 — CPS ENERGY (TRANSMISSION)
E1-1 — CPS ENERGY
E2 — TXDOT

EB14465B



WB24470



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

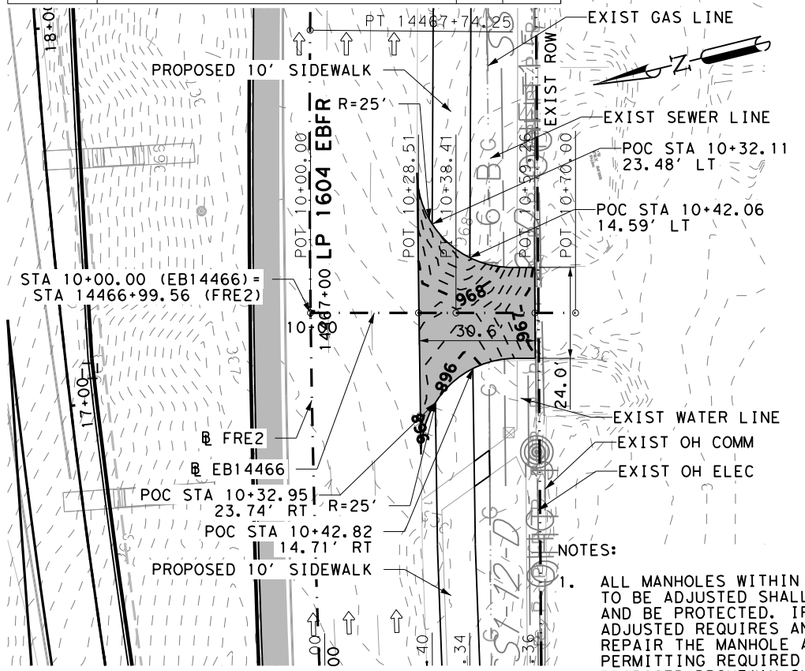
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 18 OF 44

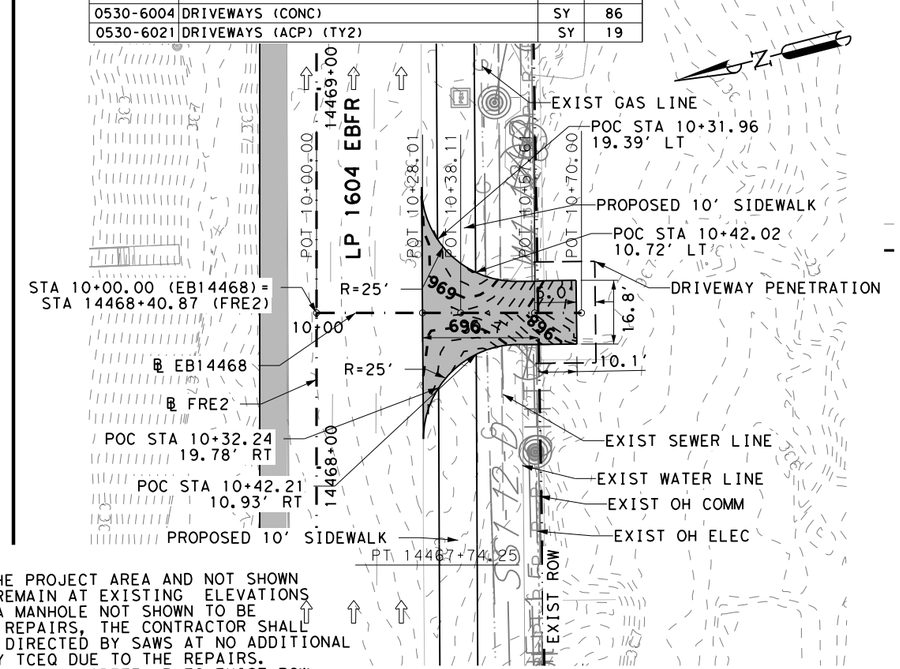
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	932

6:20:36 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY18.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	111



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	10
0530-6004	DRIVEWAYS (CONC)	SY	86
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	19



LEGEND

EXIST CONTOUR

PROP CONTOUR

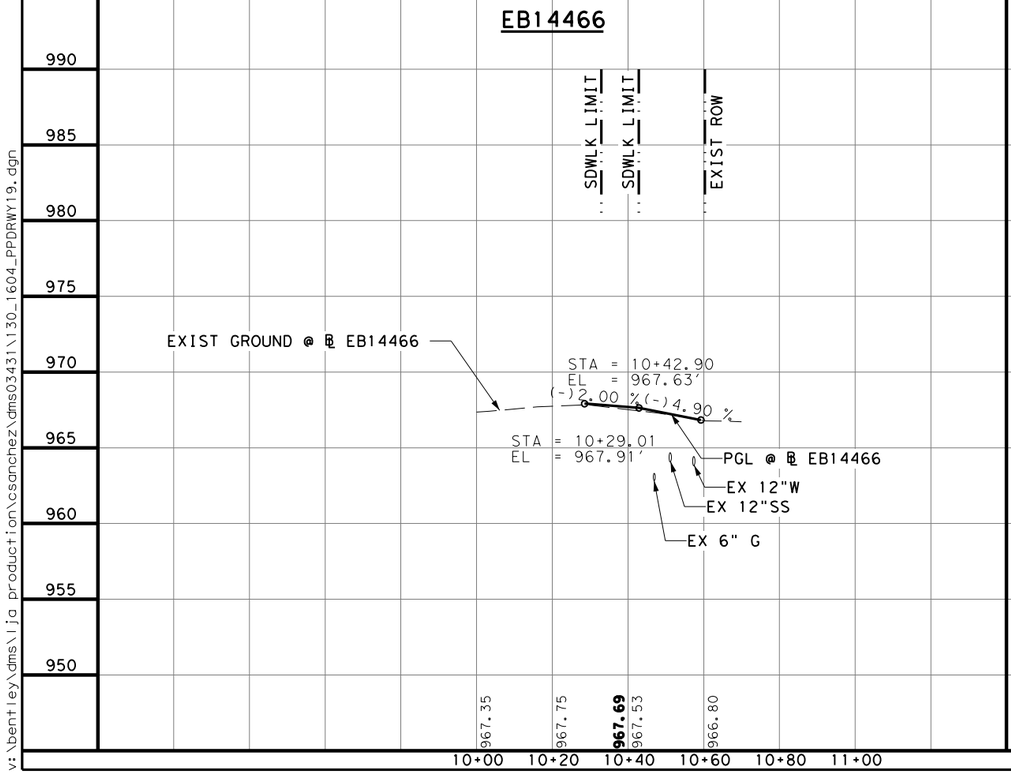
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X — CURVE ID LABEL
XXXXX — DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
T4-1 — CENTURYLINK
T5-1 — CHARTER-SPECTRUM
T7-1 — GRANDE
T8-1 — CONTERRA
T9-1 — MCI-VERIZON
T10-1 — TXDOT TRANSGUIDE
T11-1 — FIBERLIGHT
T13-1 — ZAYO
S1-1-D — TXDOT SIGNALS
OHT-1 — CHARTER-SPECTRUM
OHC-3 — AT&T
OHT-4 — GRANDE
OHT-5 — CENTURYLINK
OHT-06 — CONTERRA
OHT-07 — ZAYO
OHT-09 — CPS
OHT-10 — FIBERLIGHT
OHE-1 — CPS ENERGY
OHE-2 — CPS ENERGY (TRANSMISSION)
E1-1 — CPS ENERGY
E2 — TXDOT

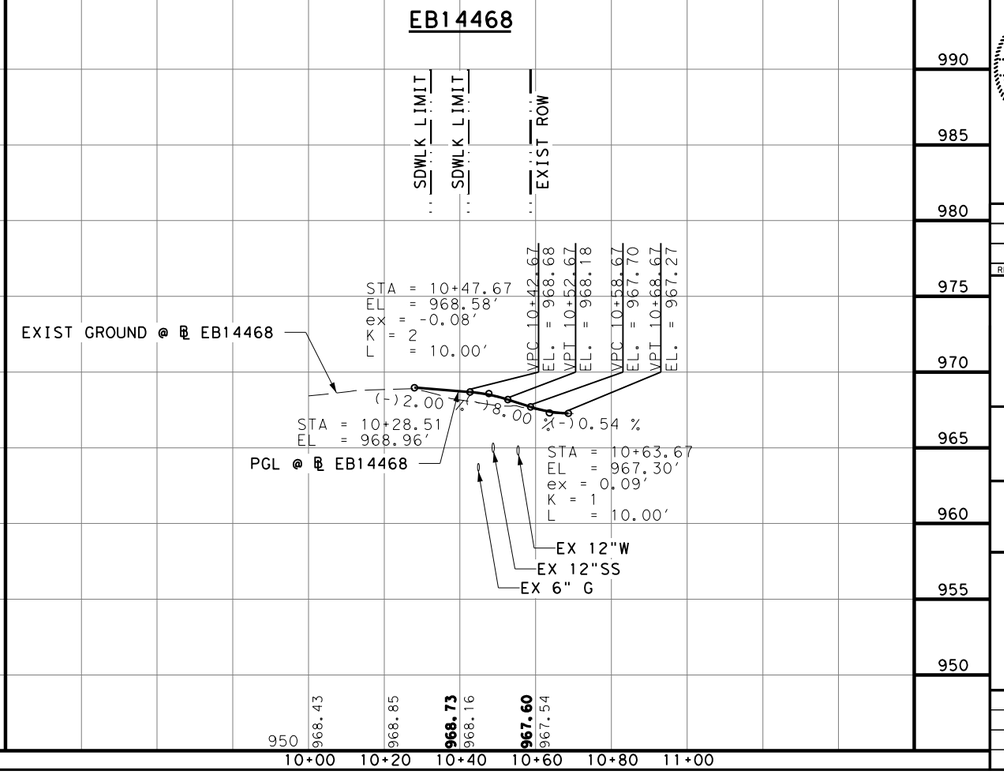
NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

EB14466



EB14468



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

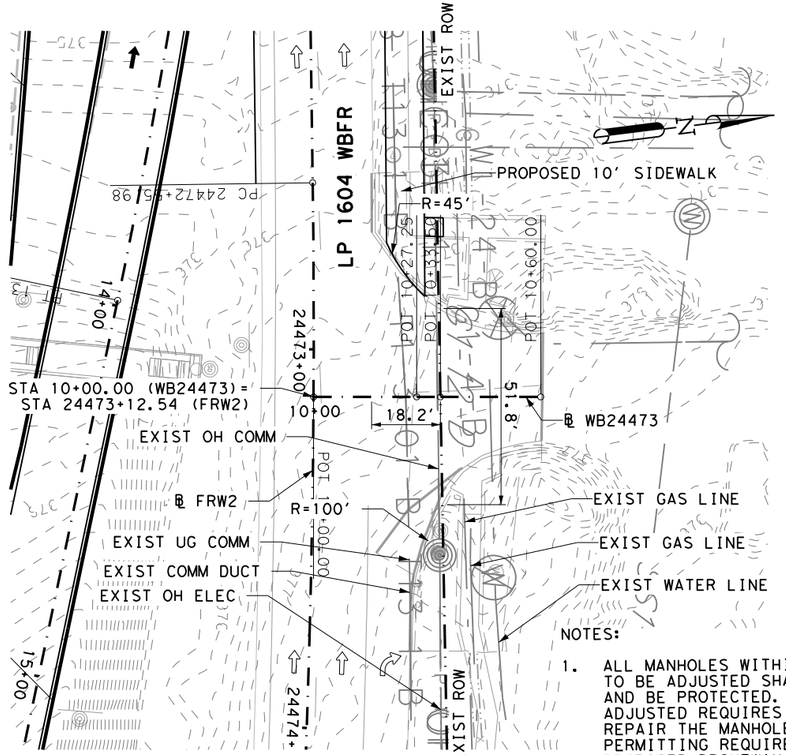
LJA Engineering, Inc.
FRN-F-1386

LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 19 OF 44

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	933

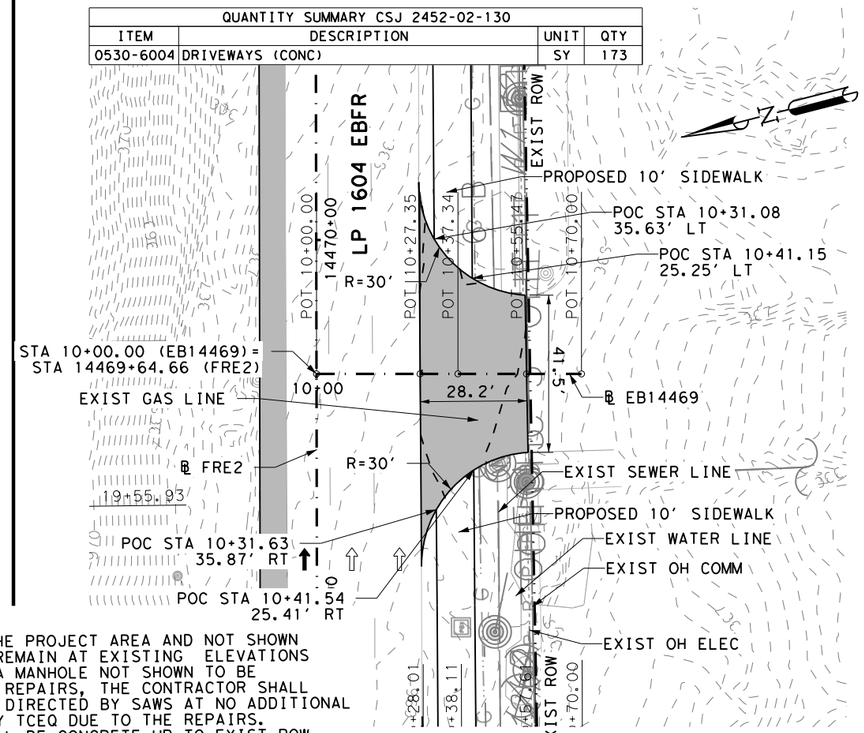
6:21:22 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY19.dgn



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	173



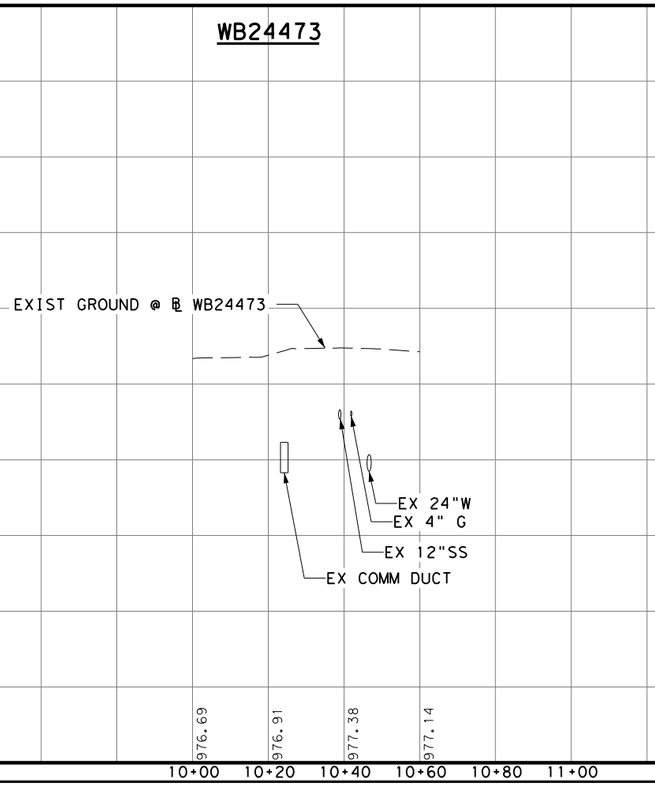
LEGEND

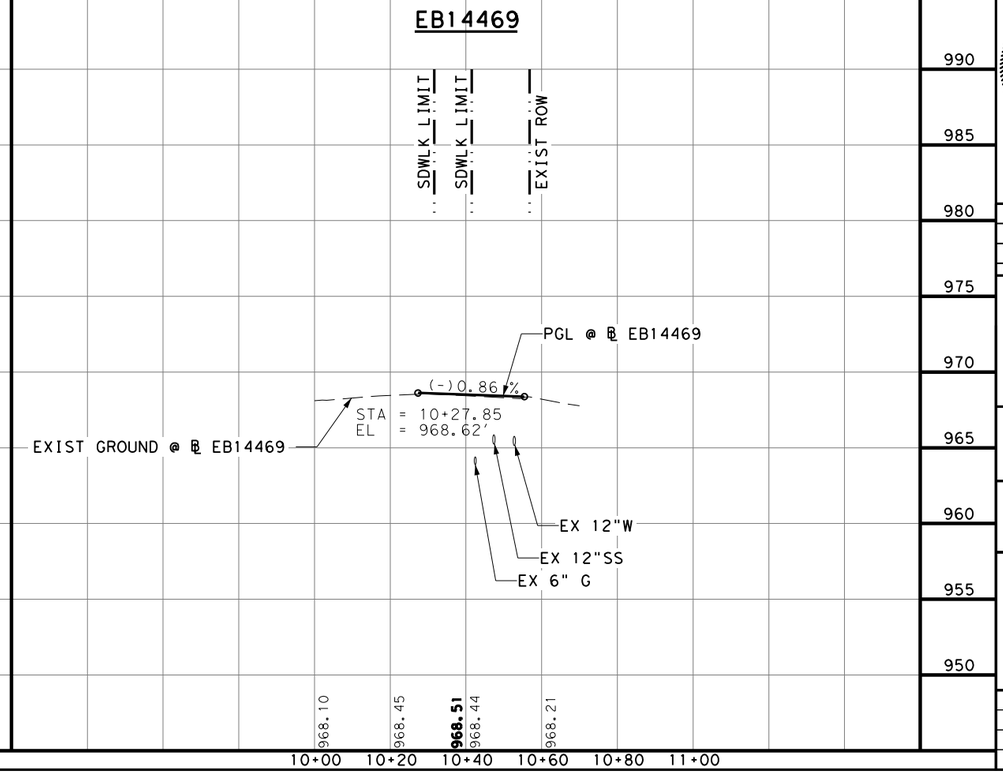
EXIST CONTOUR

PROP CONTOUR

LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT





DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

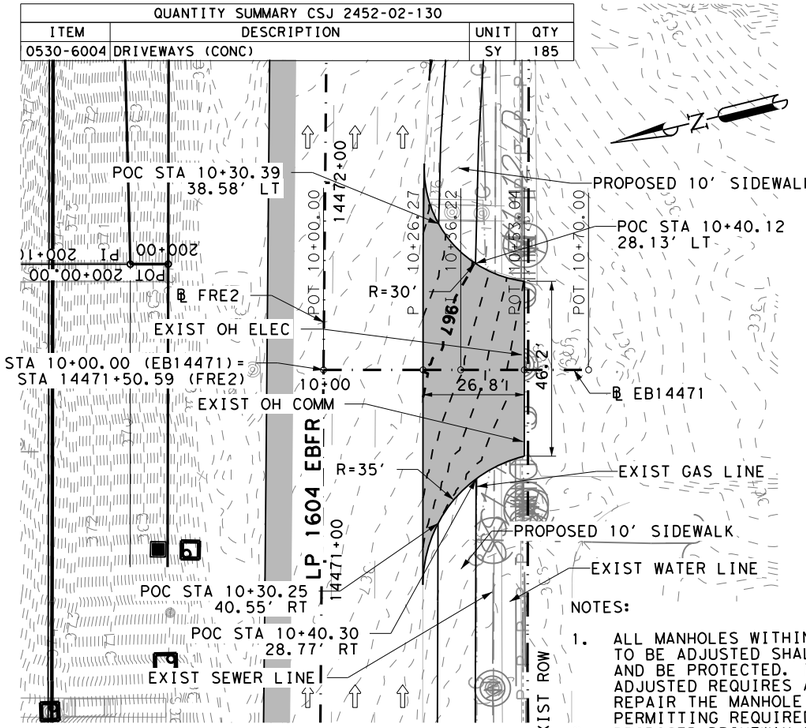
DRIVEWAY PLAN & PROFILE

SHEET 20 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	934

6:22:08 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY20.dgn

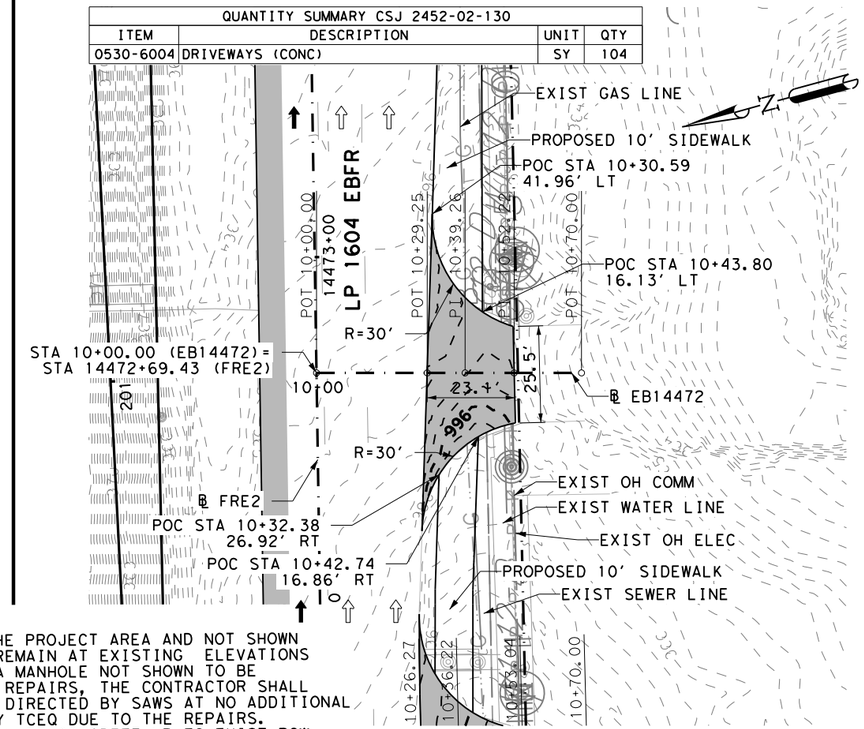
QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	185



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	104



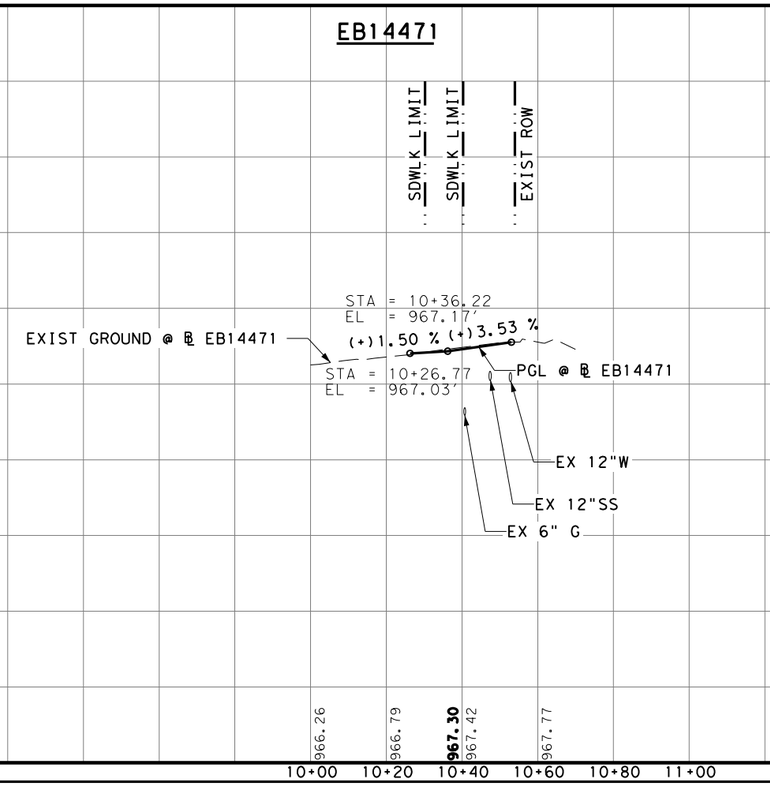
LEGEND

EXIST CONTOUR
PROP CONTOUR

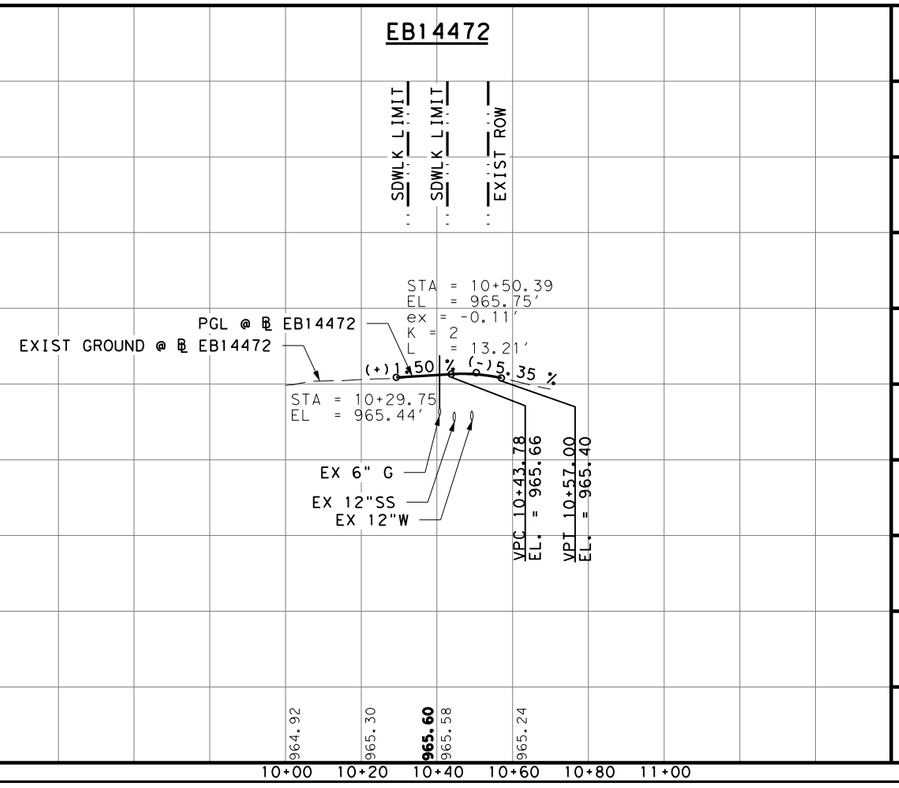
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14471



EB14472



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

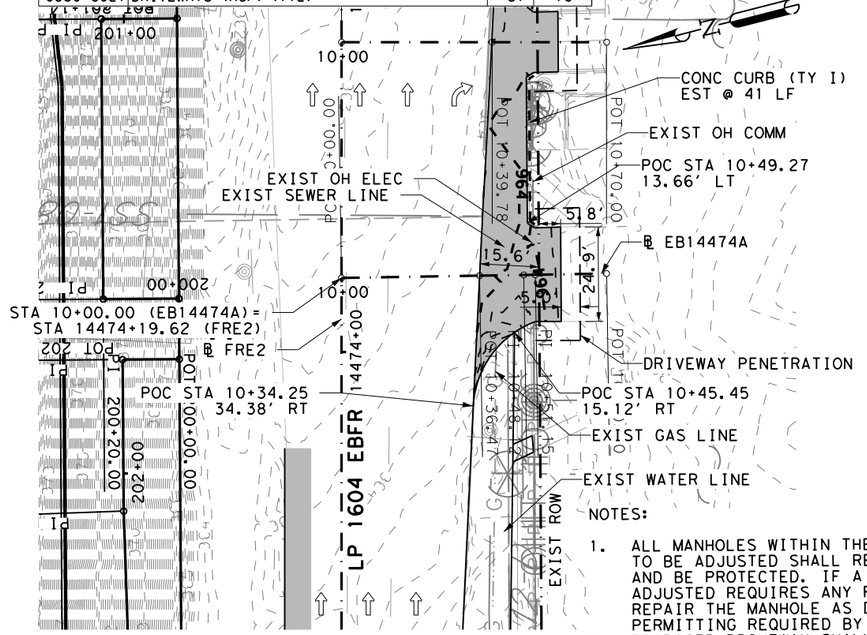
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 21 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	935

6:22:56 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY21.dgn

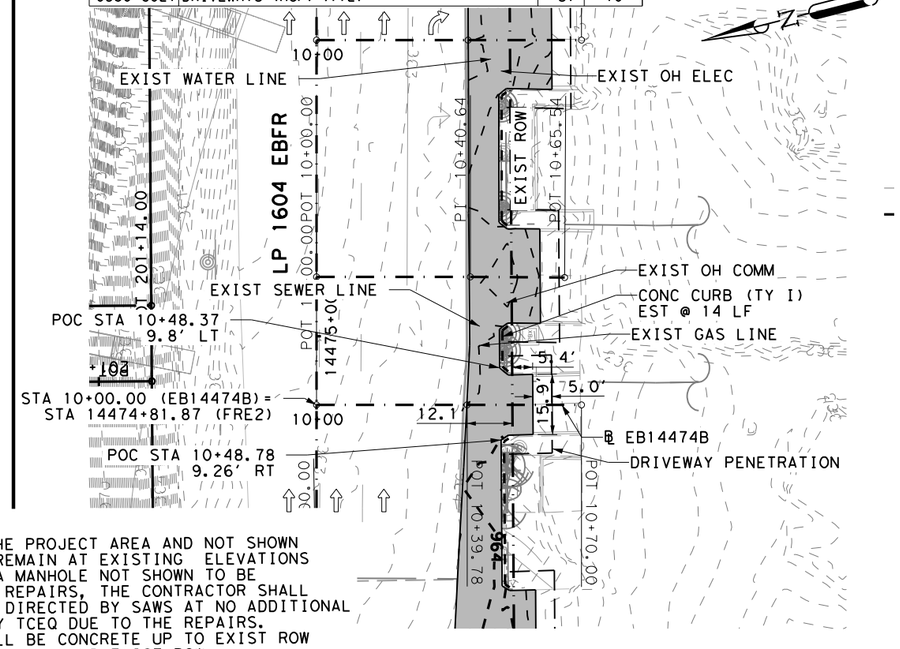
QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	35
0530-6004	DRIVEWAYS (CONC)	SY	80
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	16



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	40
0530-6004	DRIVEWAYS (CONC)	SY	51
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	10



LEGEND

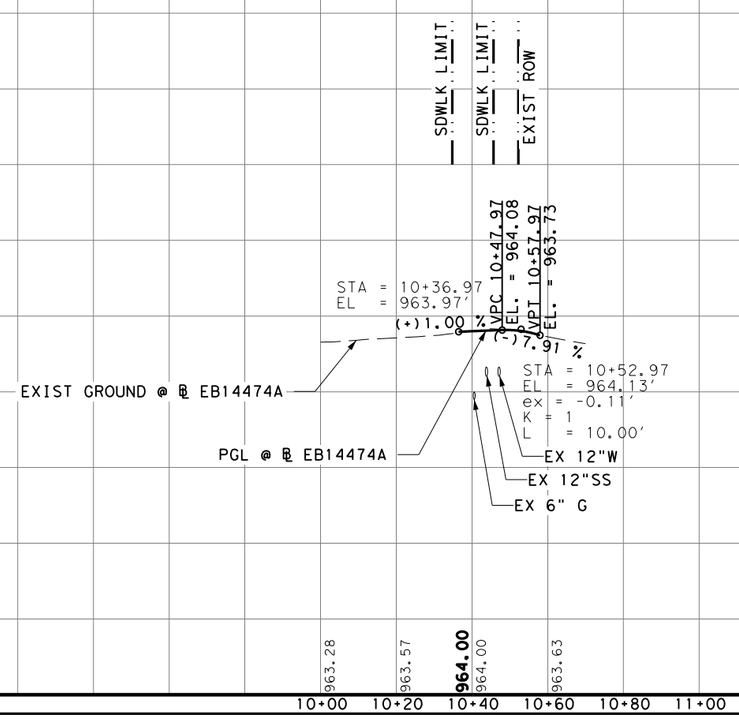
EXIST CONTOUR

PROP CONTOUR

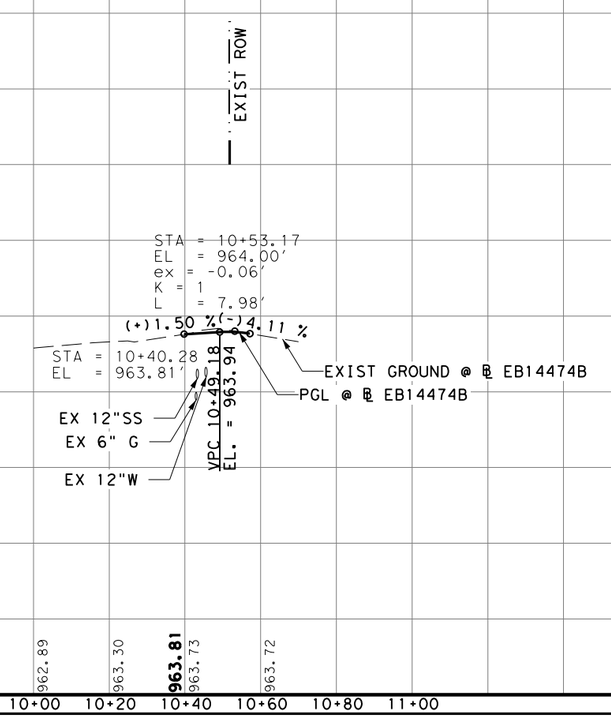
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14474A



EB14474B



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

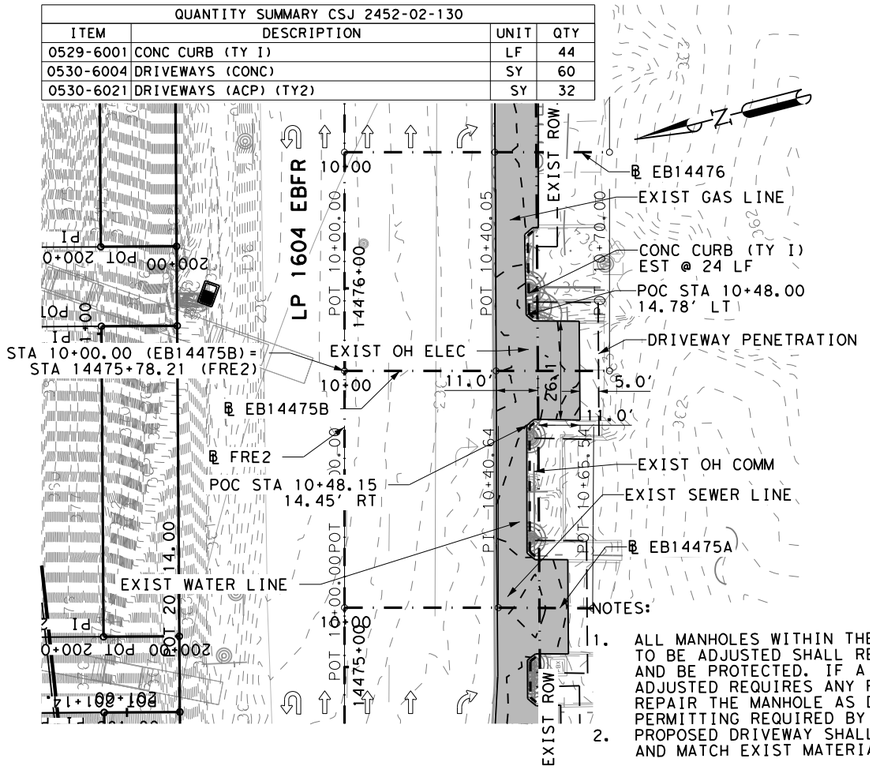
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 22 OF 44

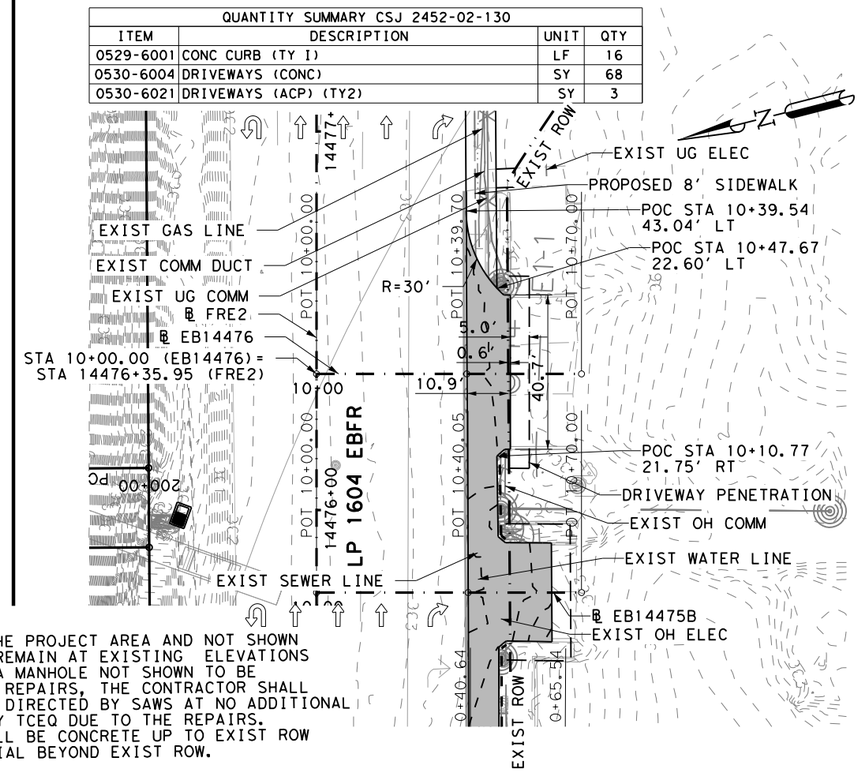
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	936

6:23:45 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_1604_PPDRW22.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	44
0530-6004	DRIVEWAYS (CONC)	SY	60
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	32



QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	16
0530-6004	DRIVEWAYS (CONC)	SY	68
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	3



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

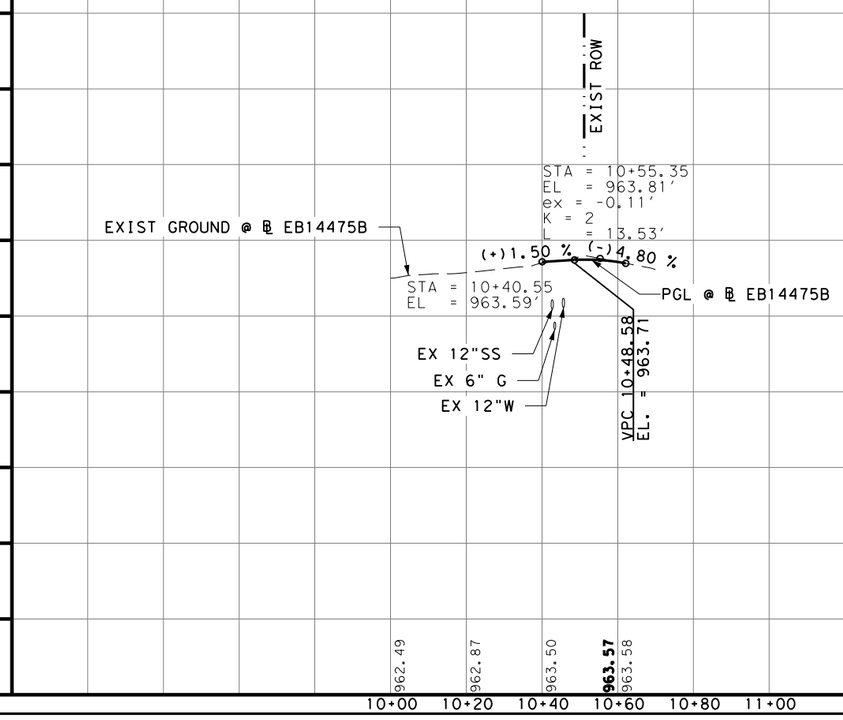
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

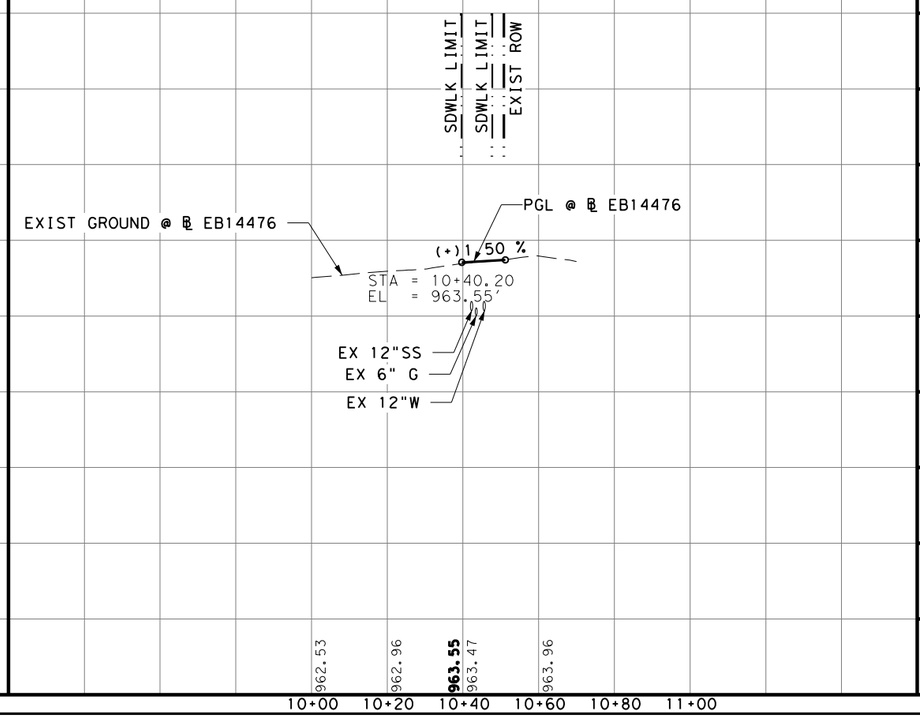
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14475B



EB14476



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

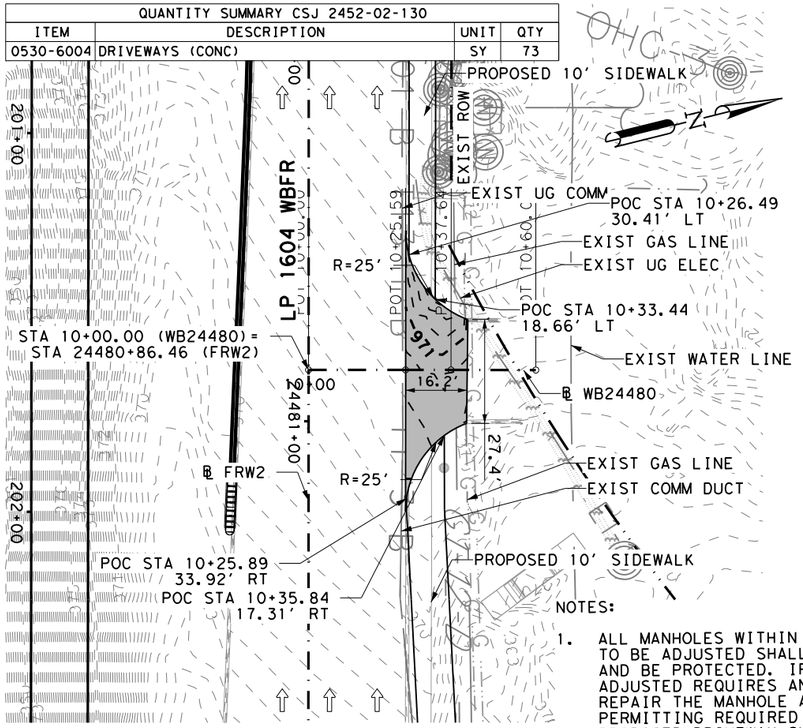
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 23 OF 44

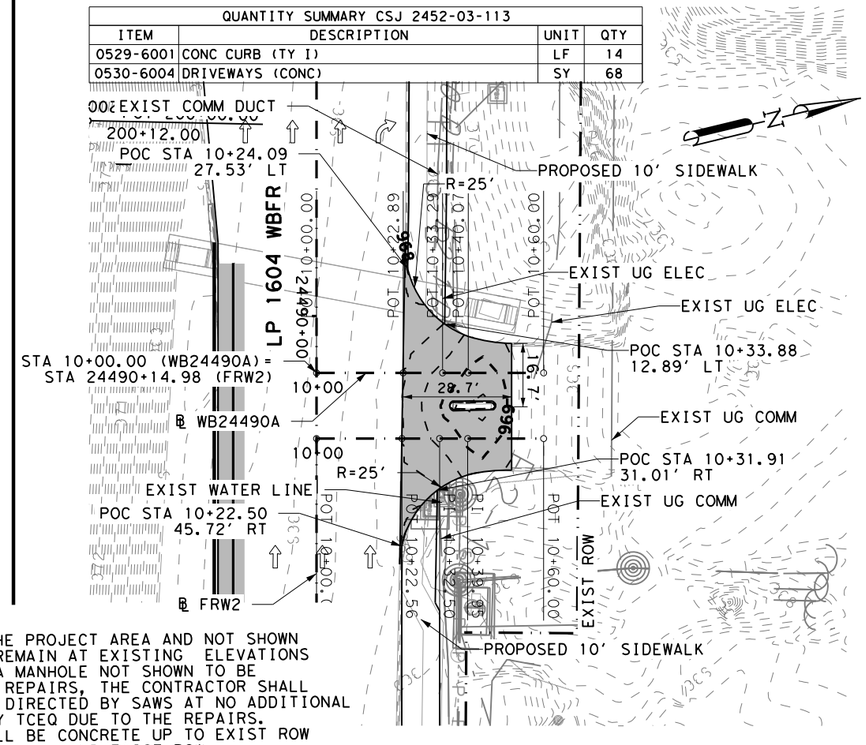
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	937

6:24:33 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_1604_PPDRWY23.dgn

QUANTITY SUMMARY CSJ 2452-02-130			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	73



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	14
0530-6004	DRIVEWAYS (CONC)	SY	68



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

LEGEND

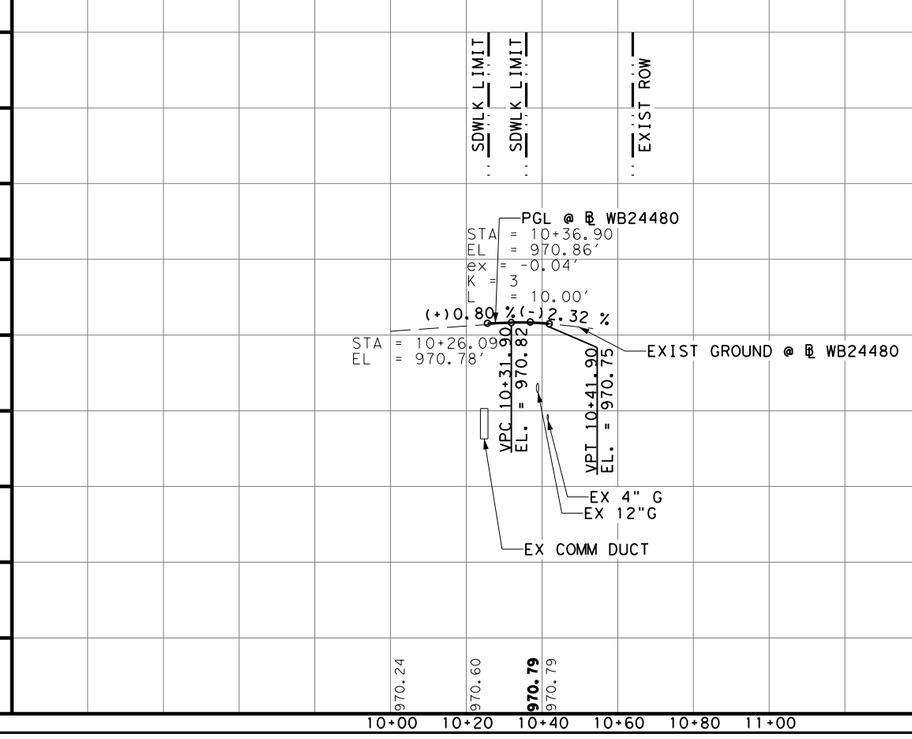
EXIST CONTOUR

PROP CONTOUR

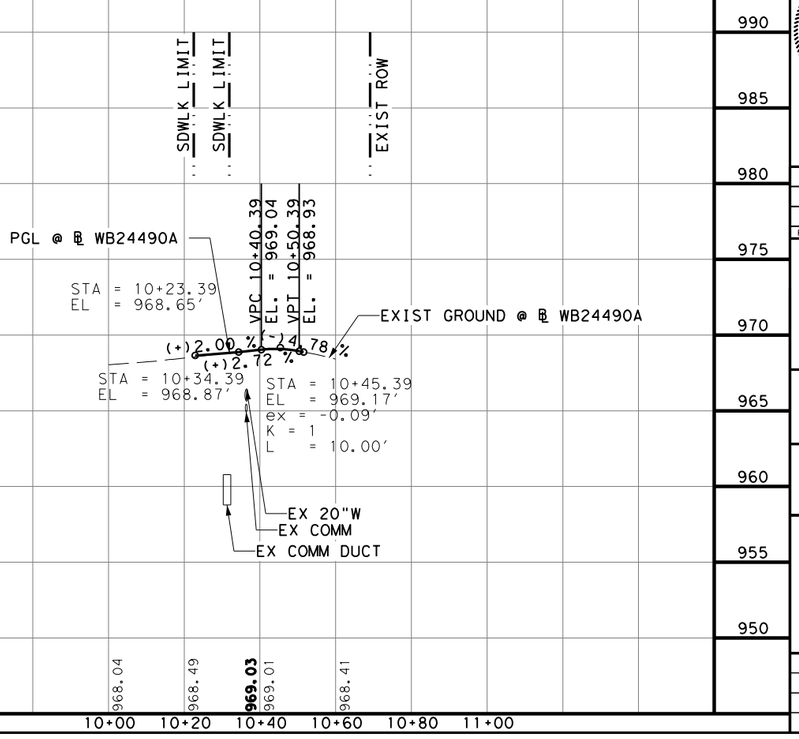
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

WB24480



WB24490A



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

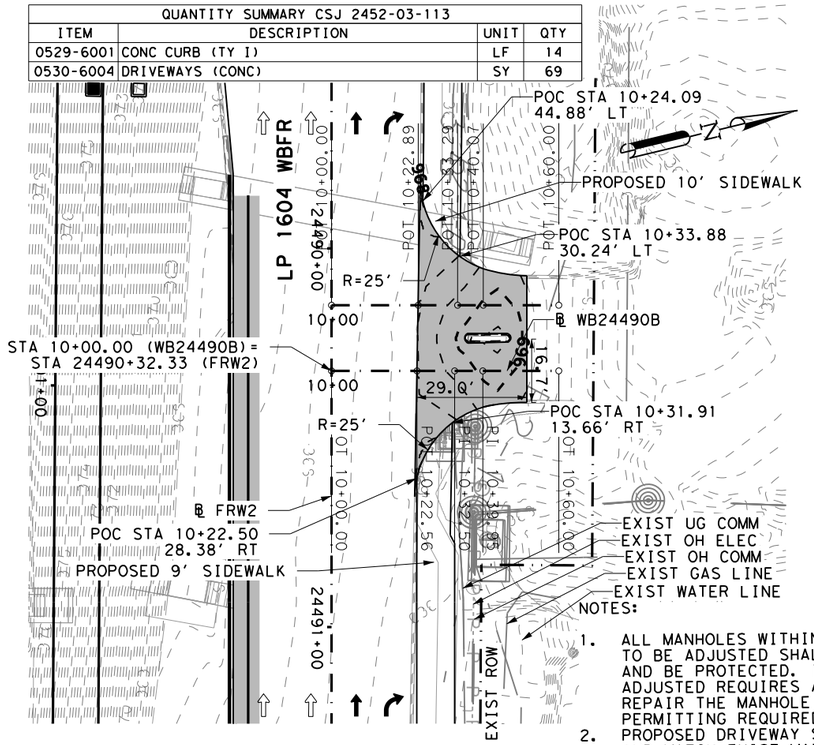
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 24 OF 44

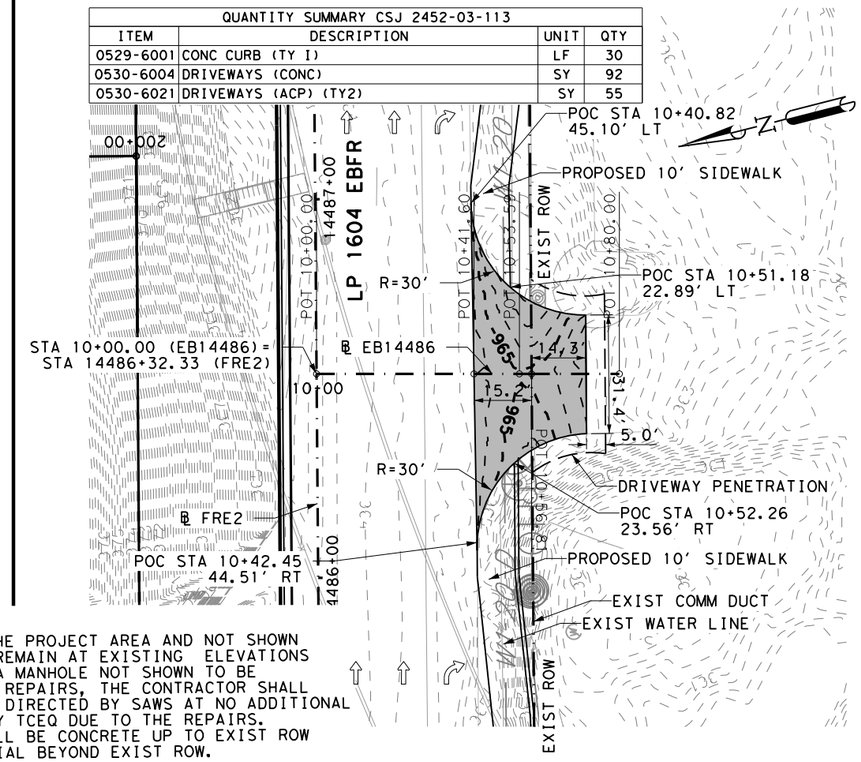
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	938

6:25:20 PM 2/28/2023
V:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY24.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	14
0530-6004	DRIVEWAYS (CONC)	SY	69



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	30
0530-6004	DRIVEWAYS (CONC)	SY	92
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	55



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

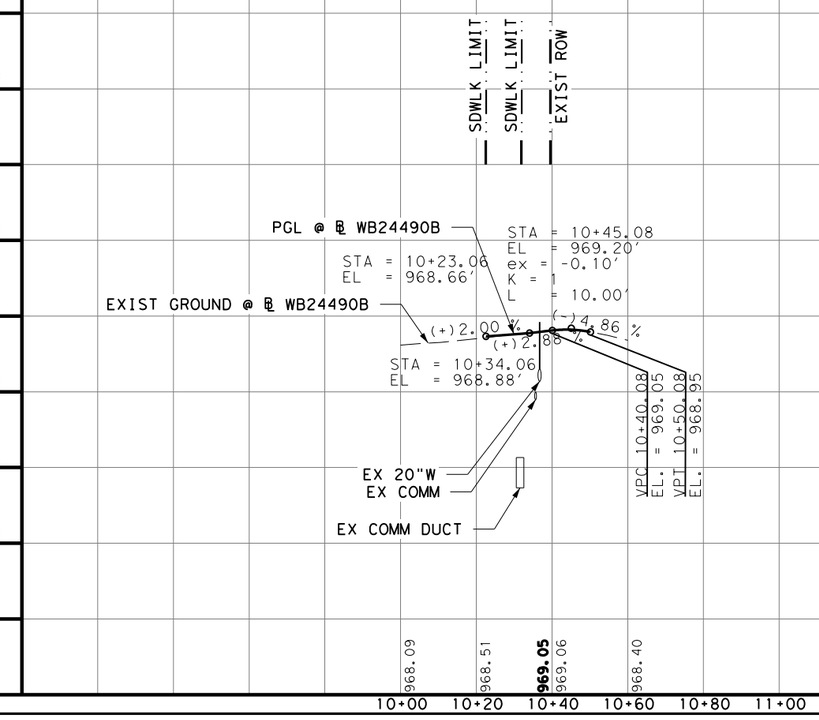
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

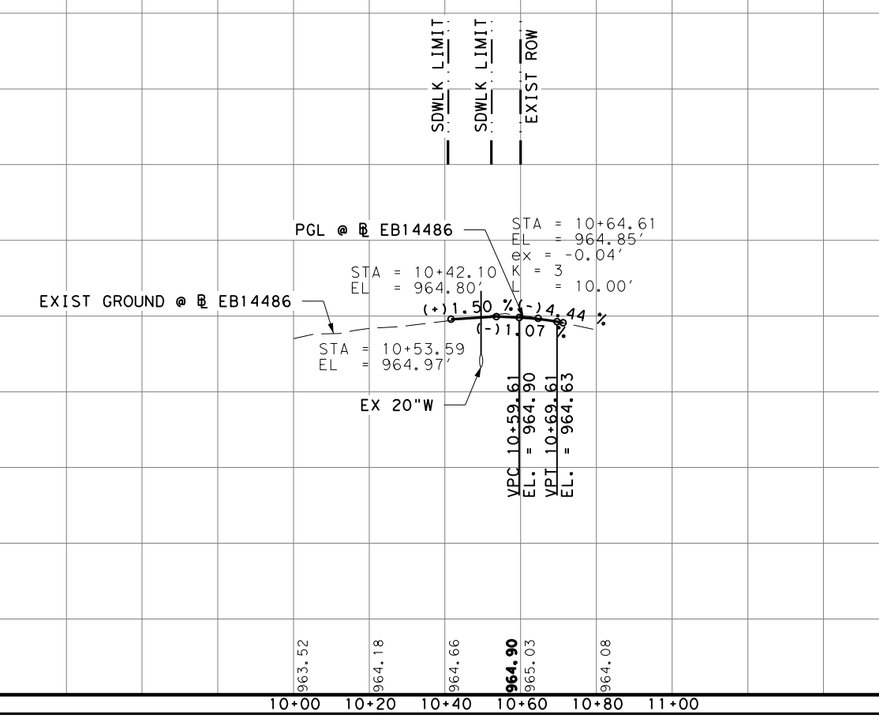
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

WB24490B



EB14486



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

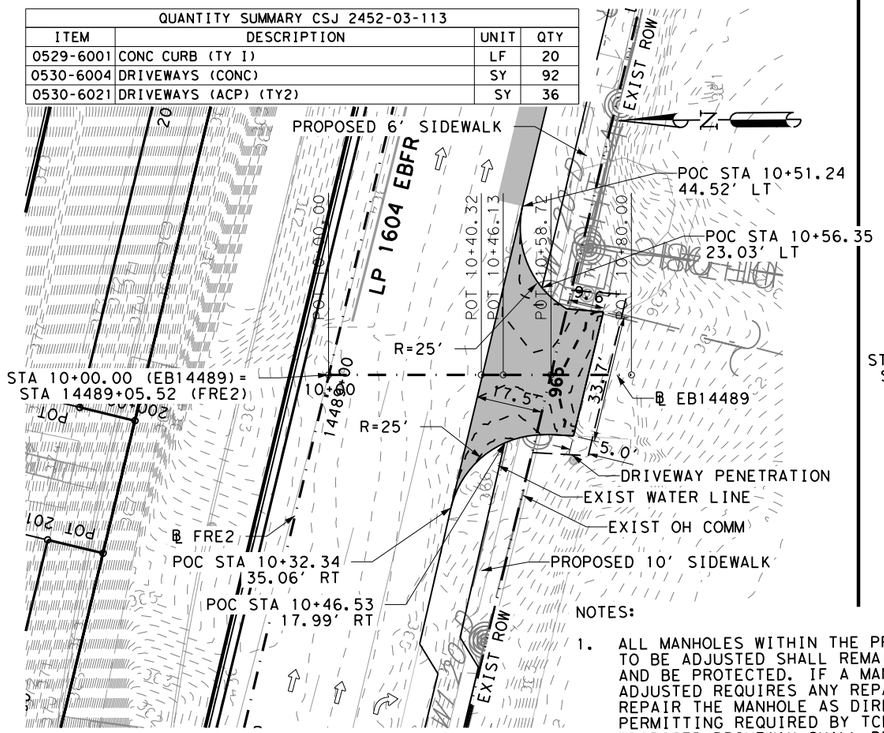
DRIVEWAY PLAN & PROFILE

SHEET 25 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	939

6:26:07 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY25.dgn

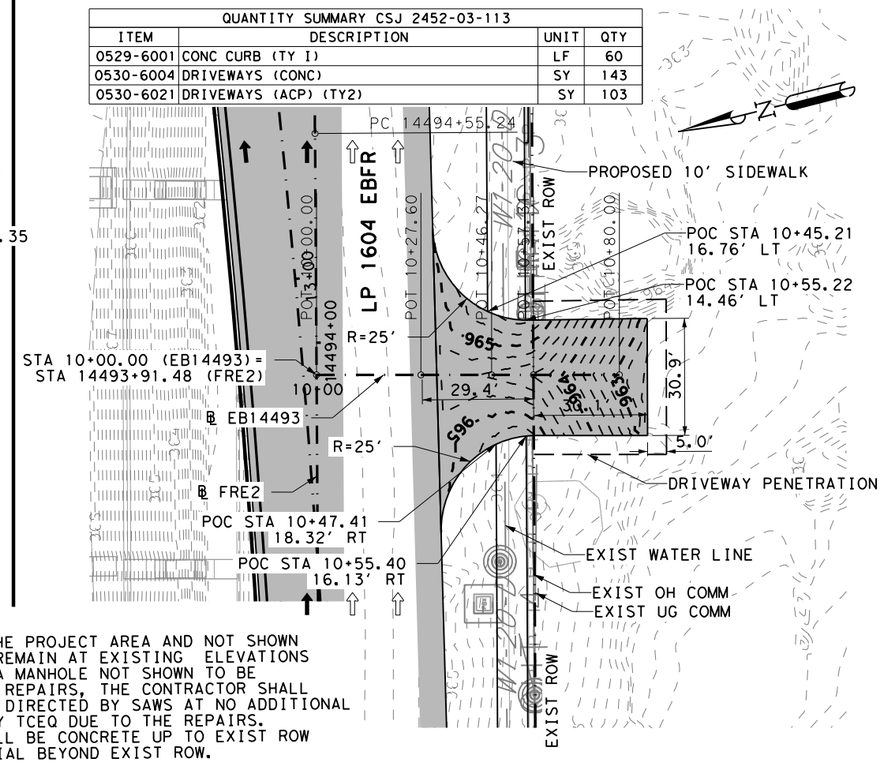
QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	20
0530-6004	DRIVEWAYS (CONC)	SY	92
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	36



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	60
0530-6004	DRIVEWAYS (CONC)	SY	143
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	103



LEGEND

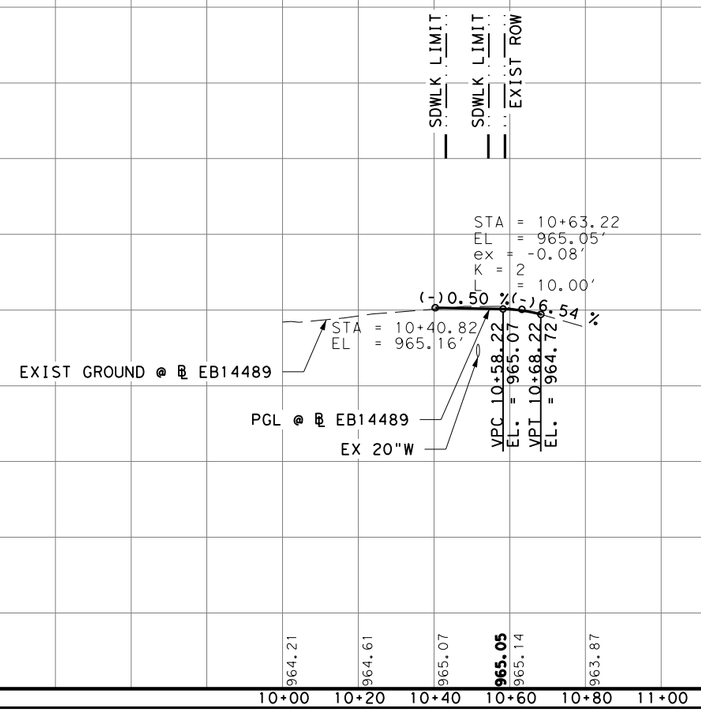
EXIST CONTOUR

PROP CONTOUR

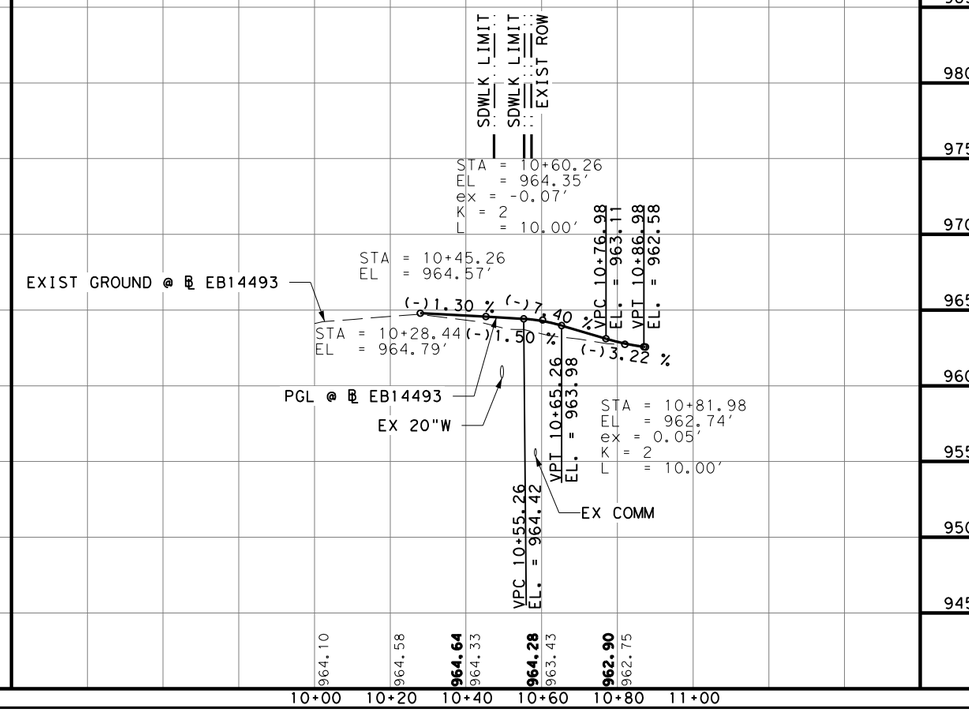
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14489



EB14493



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

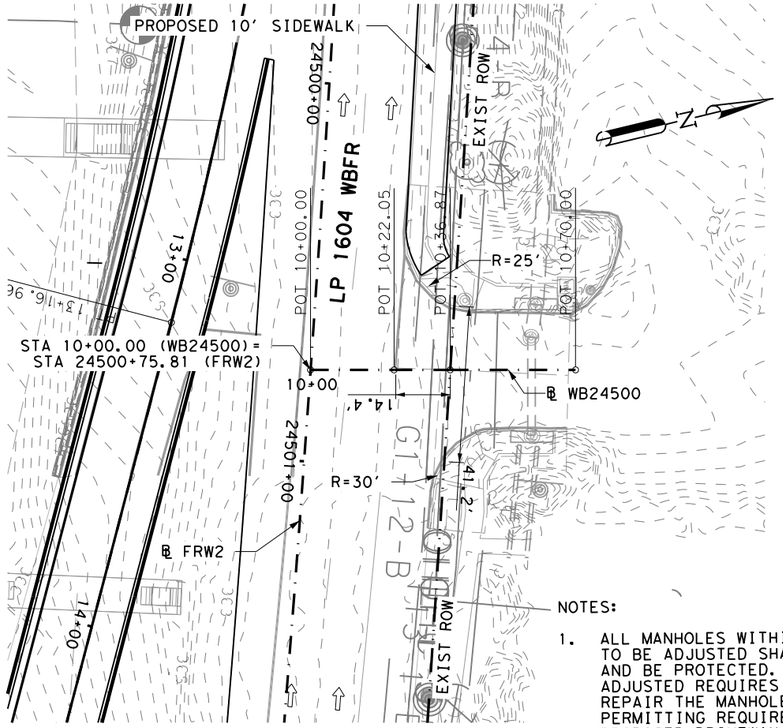
LJA Engineering, Inc.
FRN-F-1386

LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 26 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	940

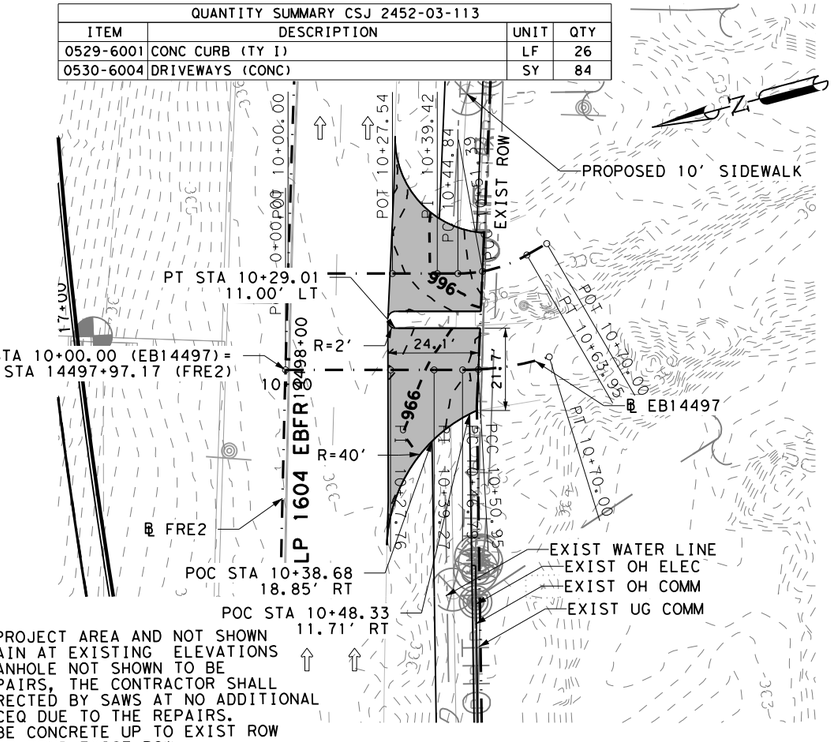
6:26:52 PM 2/28/2023
V:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY26.dgn



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	26
0530-6004	DRIVEWAYS (CONC)	SY	84



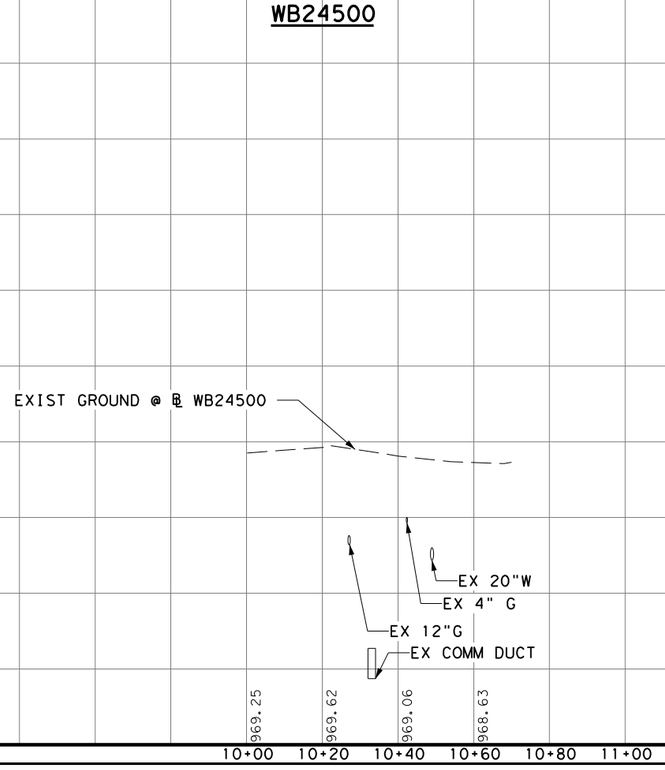
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 CENTURYLINK
- T5-1 CHARTER-SPECTRUM
- T7-1 GRANDE
- T8-1 CONTERRA
- T9-1 MCI-VERIZON
- T10-1 TXDOT TRANSGUIDE
- T11-1 FIBERLIGHT
- T13-1 ZAYO
- SI-1-D TXDOT SIGNALS
- OHT-1 CHARTER-SPECTRUM
- OHC-3 AT&T
- OHT-4 GRANDE
- OHT-5 CENTURYLINK
- OHT-06 CONTERRA
- OHT-07 ZAYO
- OHT-09 CPS
- OHT-10 FIBERLIGHT
- OHE-1 CPS ENERGY
- OHE-2 CPS ENERGY (TRANSMISSION)
- E1-1 CPS ENERGY
- E2 TXDOT

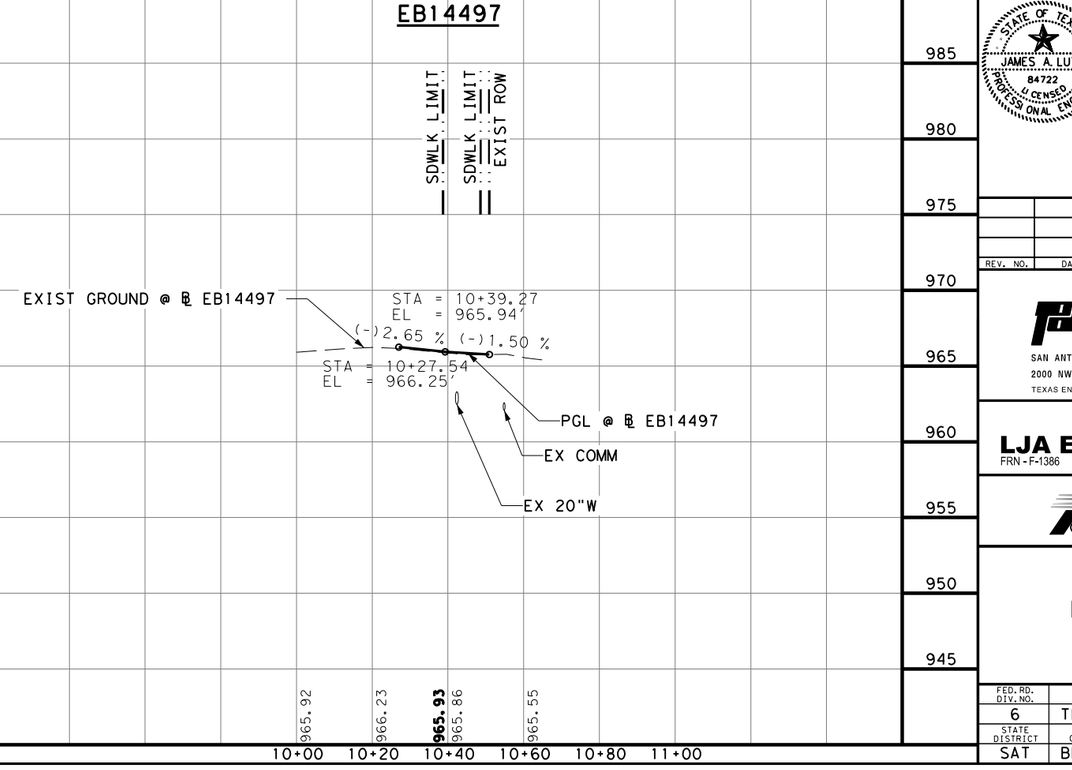
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

WB24500



EB14497



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

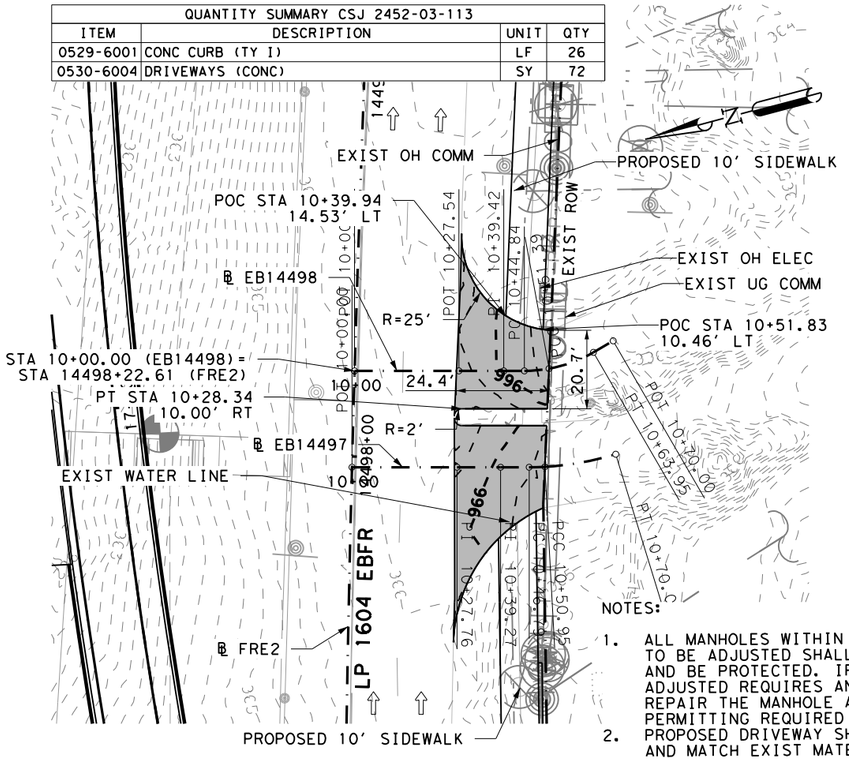
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 27 OF 44

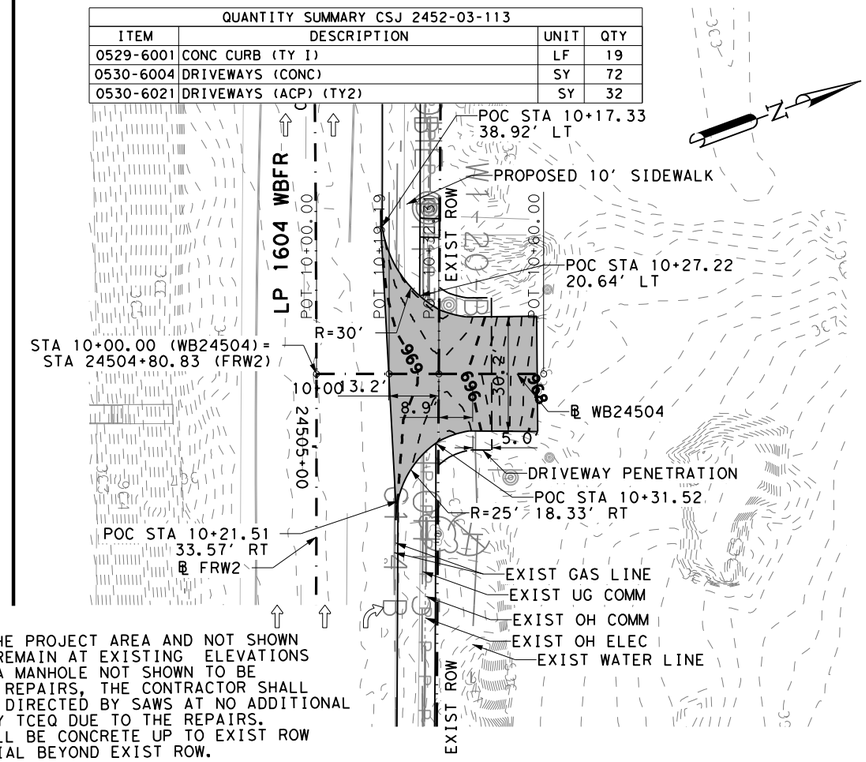
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	941

v:\bentley\dms\lja production\csanchez\dms03431\l30_1604_PPDRW27.dgn 2/28/2023 6:27:38 PM

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	26
0530-6004	DRIVEWAYS (CONC)	SY	72



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	19
0530-6004	DRIVEWAYS (CONC)	SY	72
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	32



LEGEND

EXIST CONTOUR

PROP CONTOUR

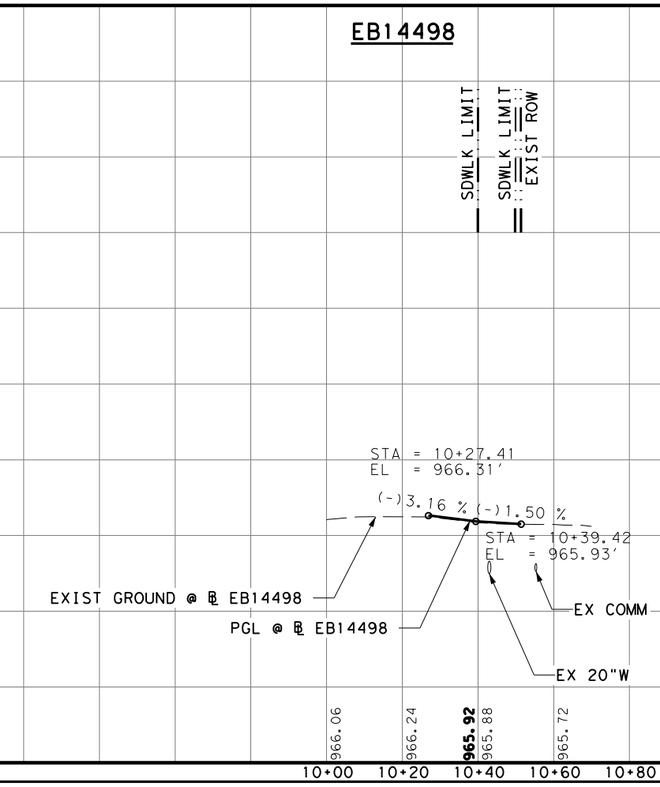
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

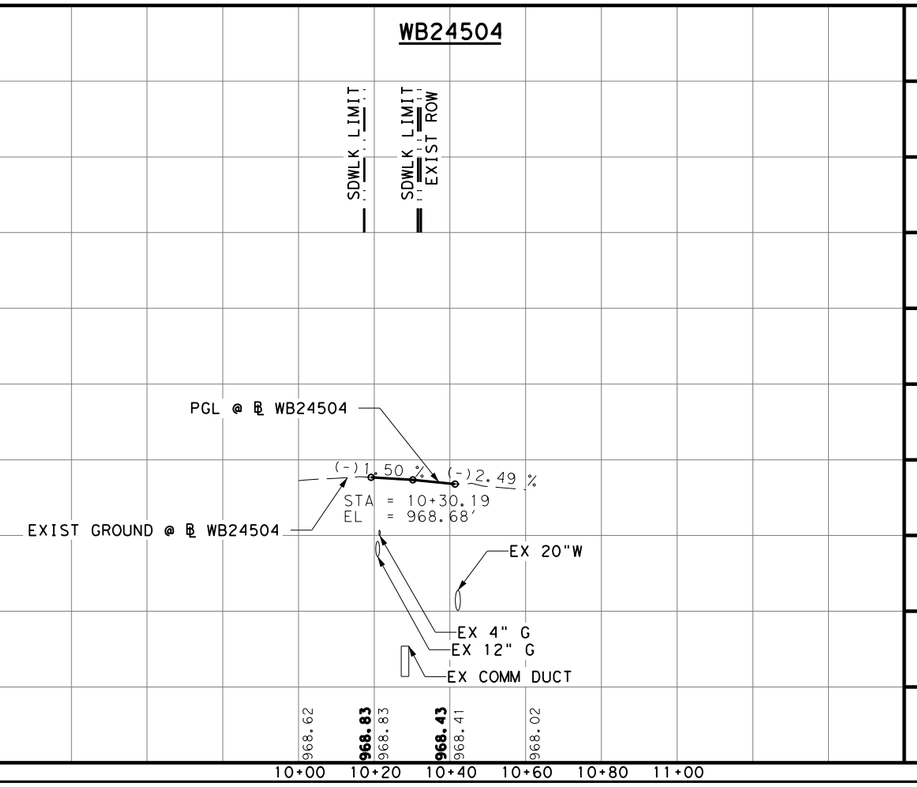
NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

EB14498



WB24504



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604

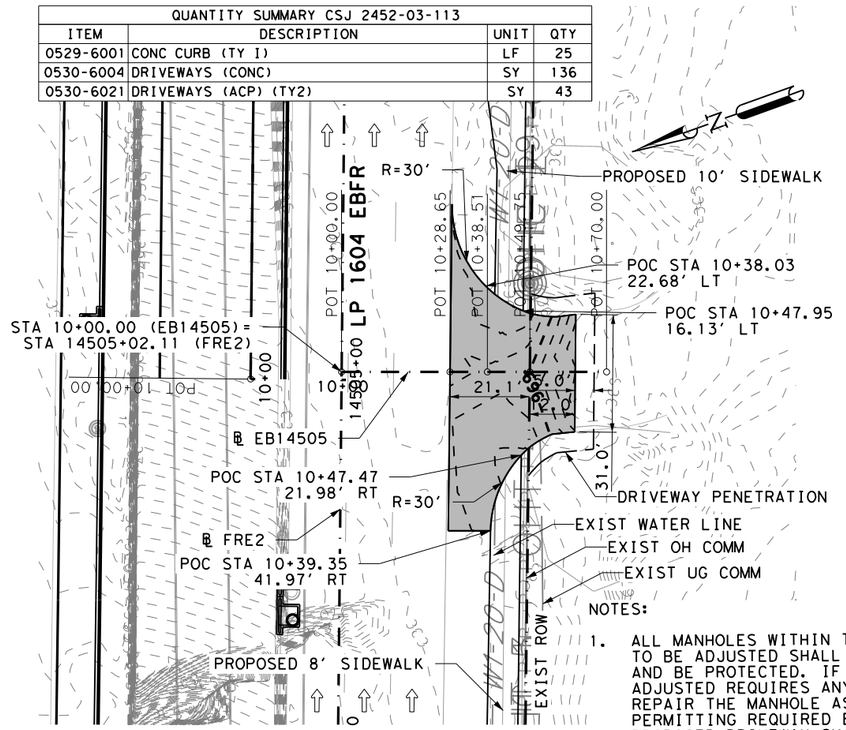
DRIVEWAY PLAN & PROFILE

SHEET 28 OF 44

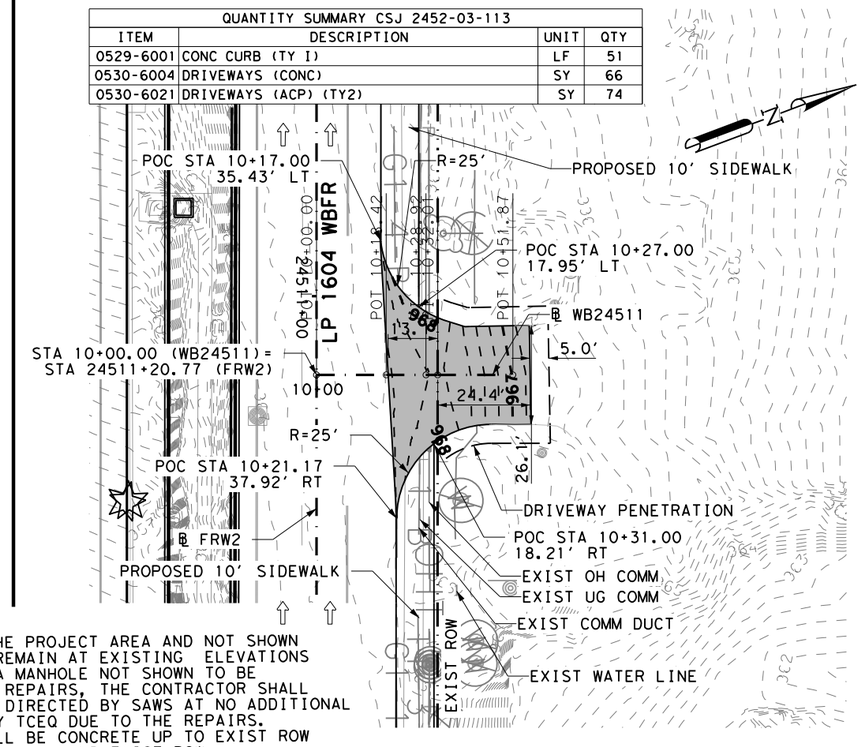
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	942

6:28:25 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRW28.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	25
0530-6004	DRIVEWAYS (CONC)	SY	136
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	43



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	51
0530-6004	DRIVEWAYS (CONC)	SY	66
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	74



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

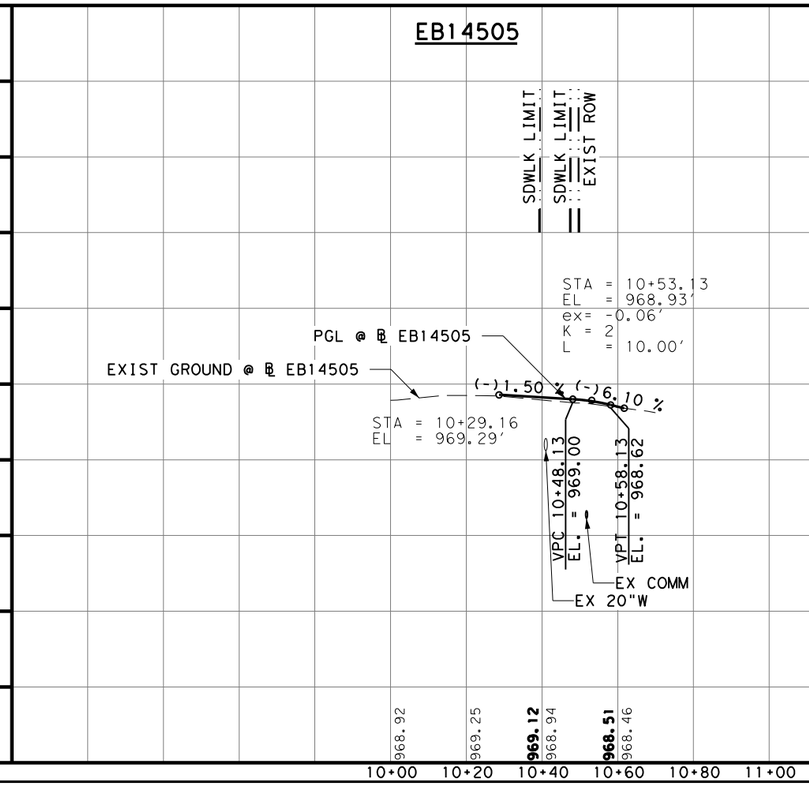
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

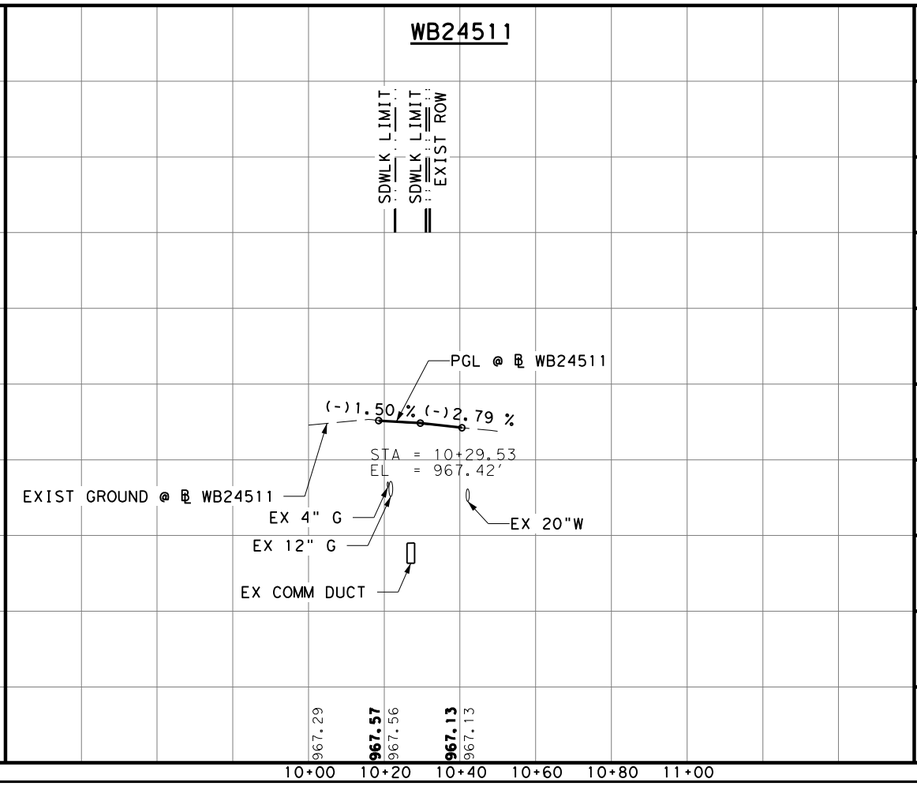
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14505



WB24511



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

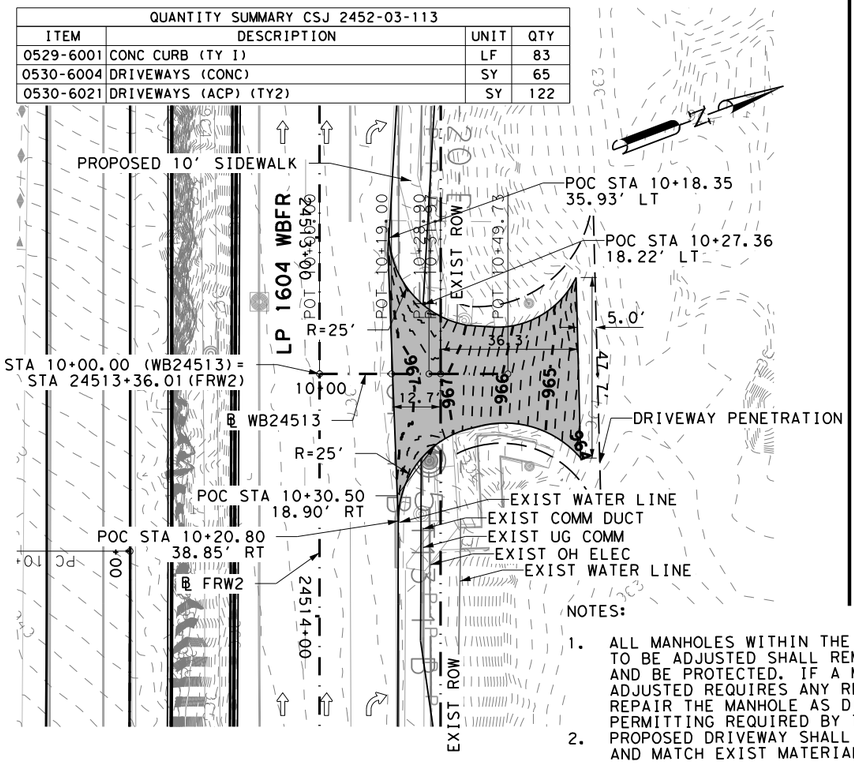
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 29 OF 44

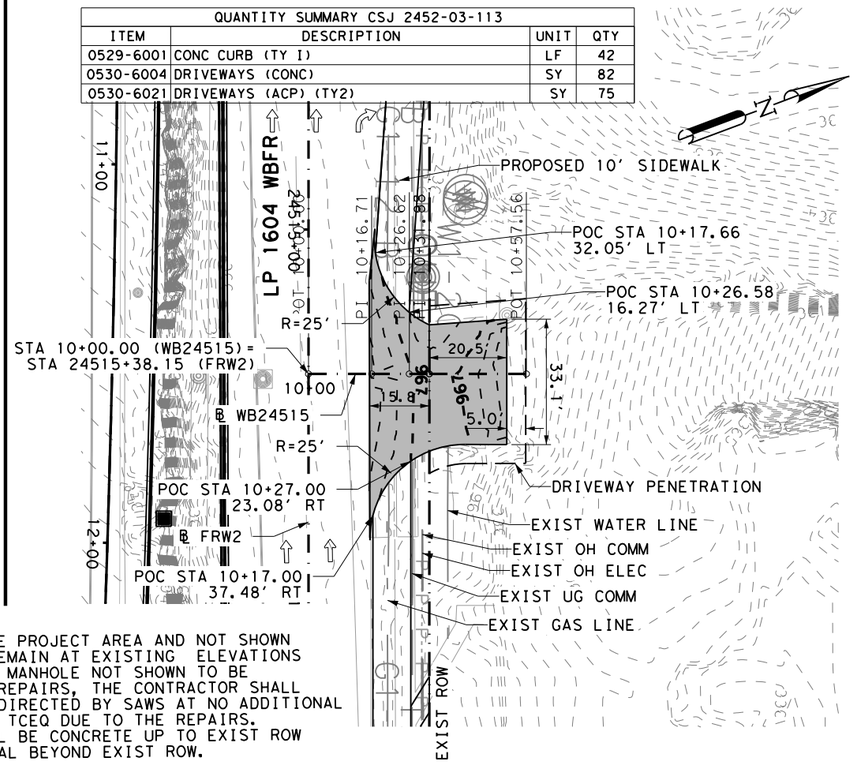
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	943

6:29:18 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY29.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	83
0530-6004	DRIVEWAYS (CONC)	SY	65
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	122



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	42
0530-6004	DRIVEWAYS (CONC)	SY	82
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	75



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

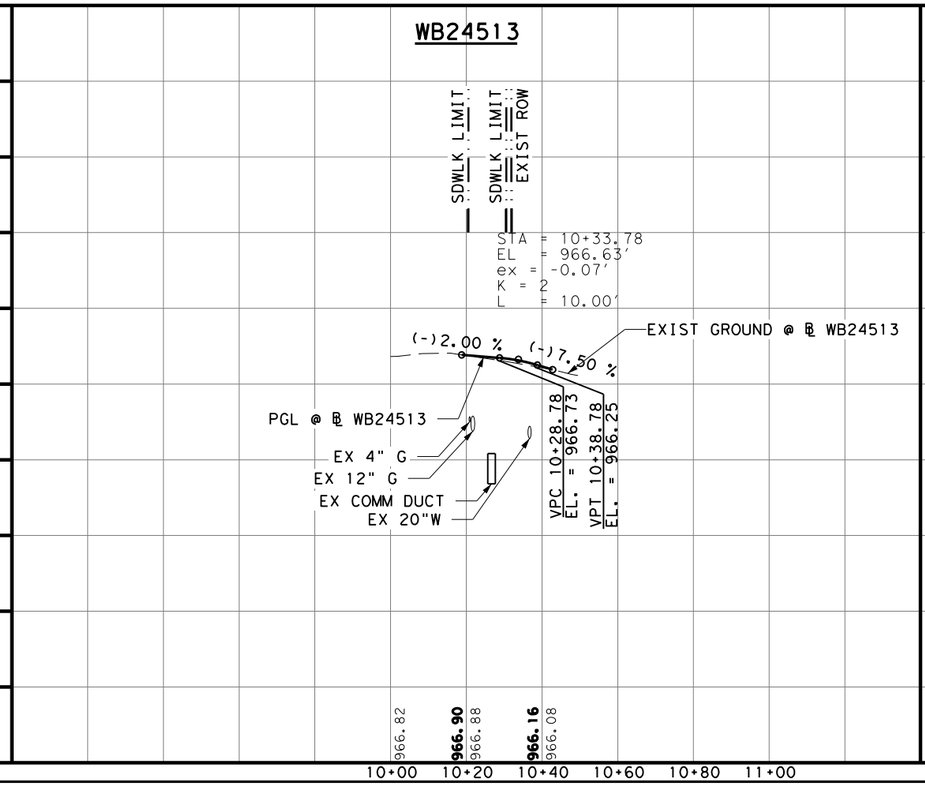
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

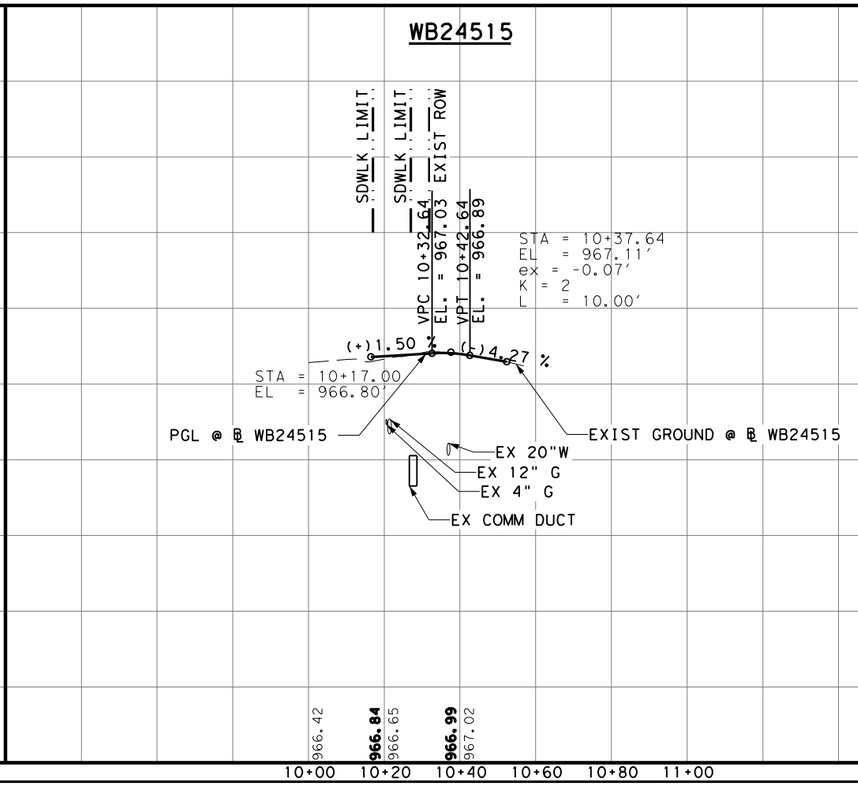
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

WB24513



WB24515



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

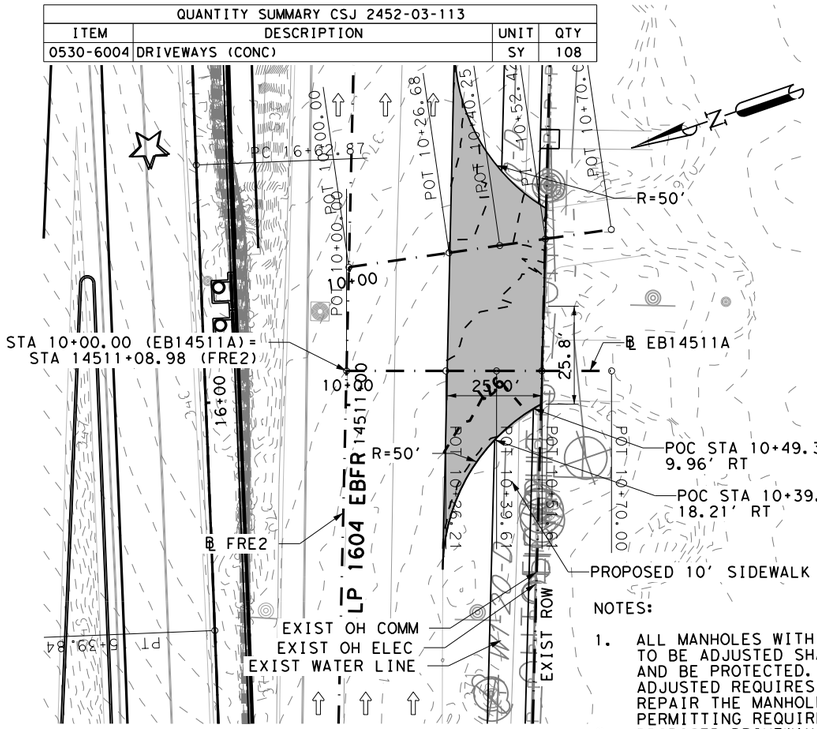
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 30 OF 44

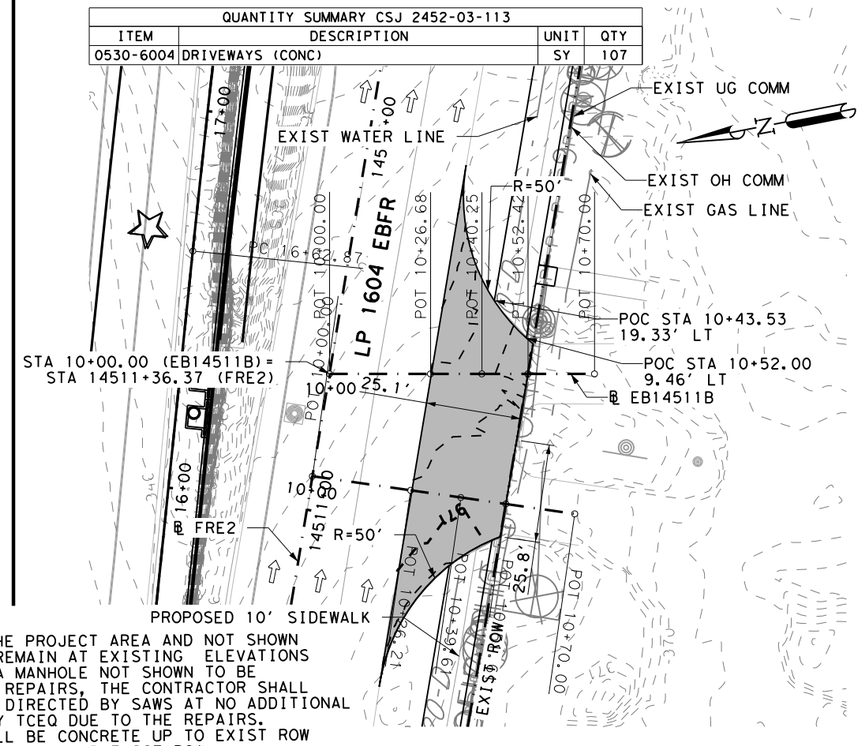
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	944

6:30:15 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l30_1604_PPDRWY30.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	108



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	107



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

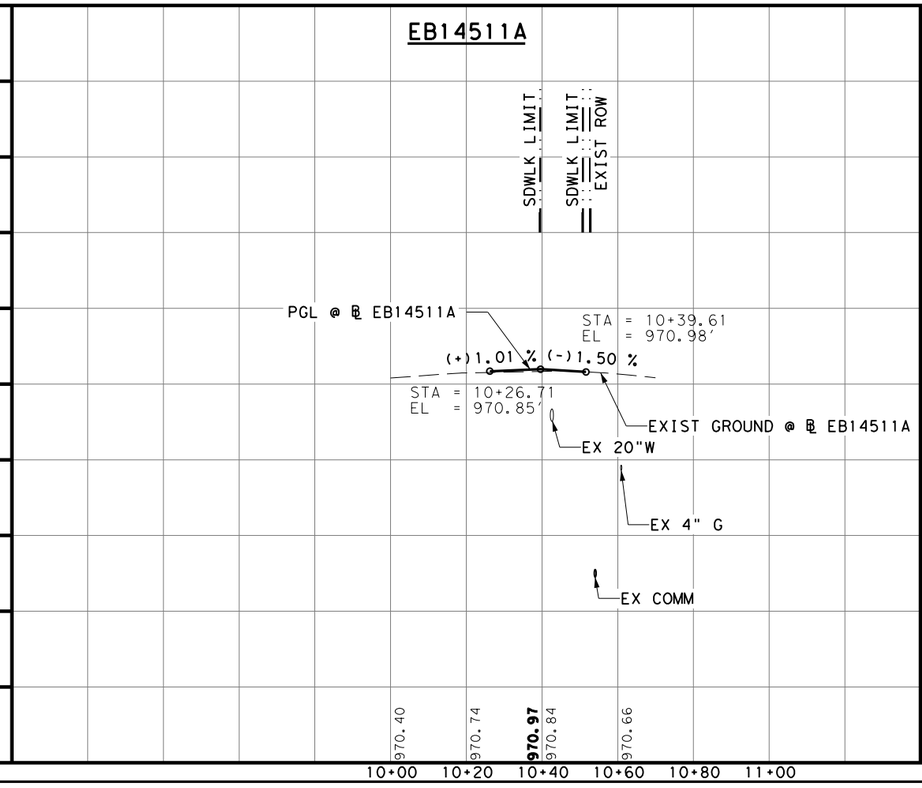
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

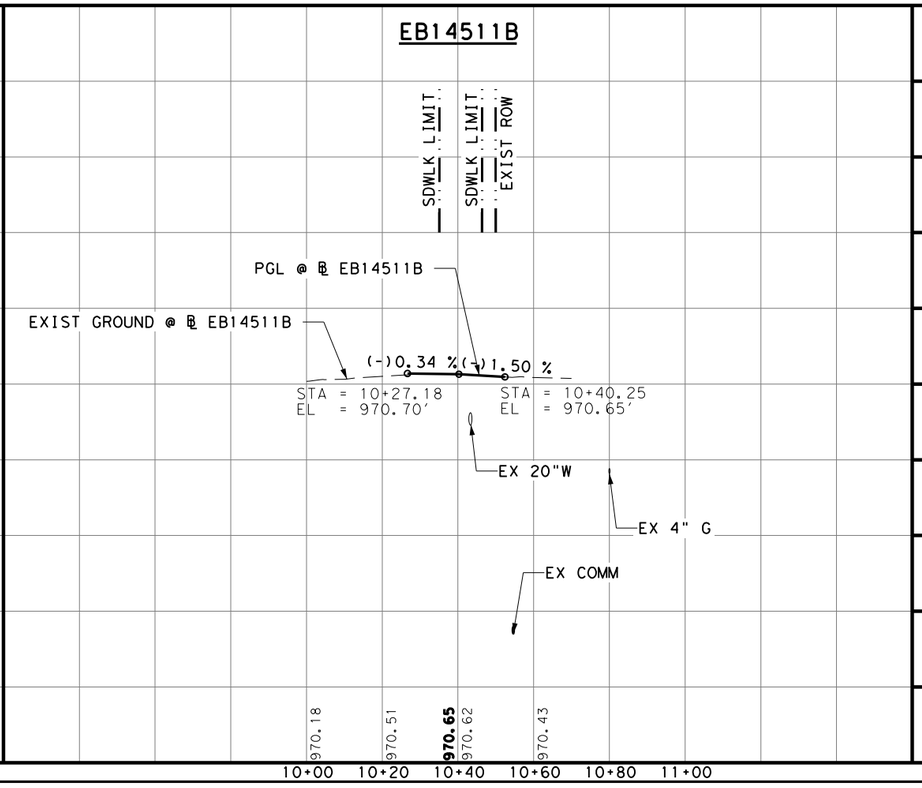
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14511A



EB14511B



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

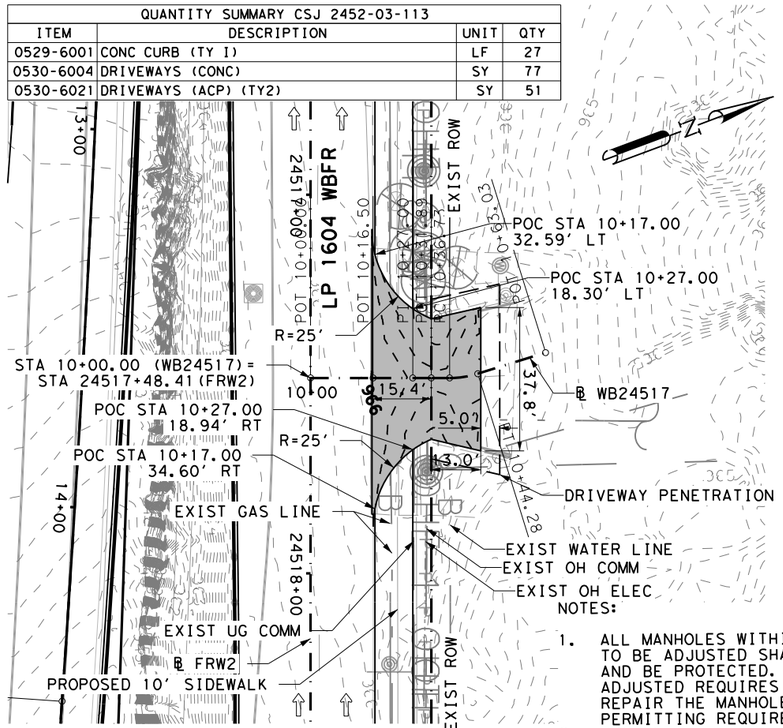
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 31 OF 44

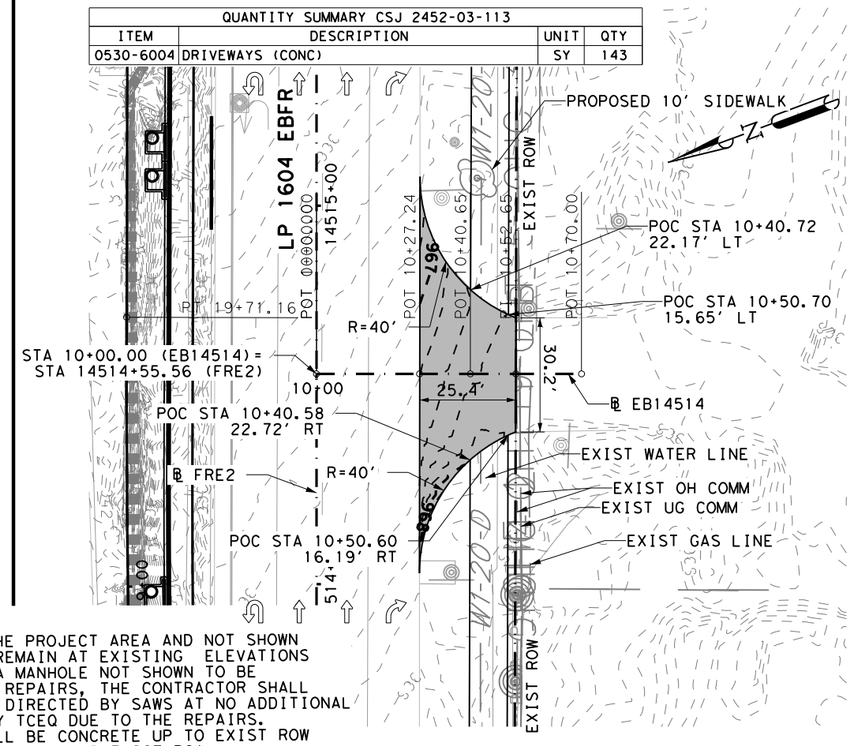
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	945

6:31:12 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_1604_PPDRWY31.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	27
0530-6004	DRIVEWAYS (CONC)	SY	77
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	51



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	143



LEGEND

EXIST CONTOUR

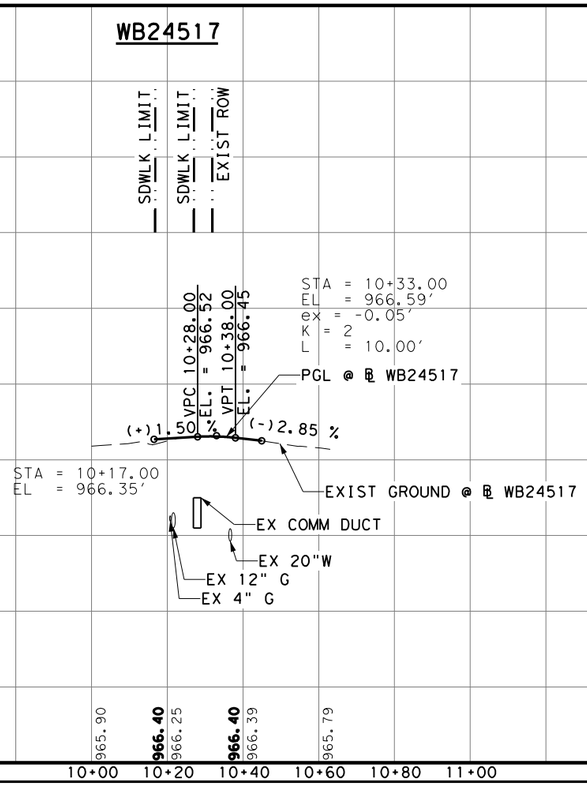
PROP CONTOUR

LEGEND:

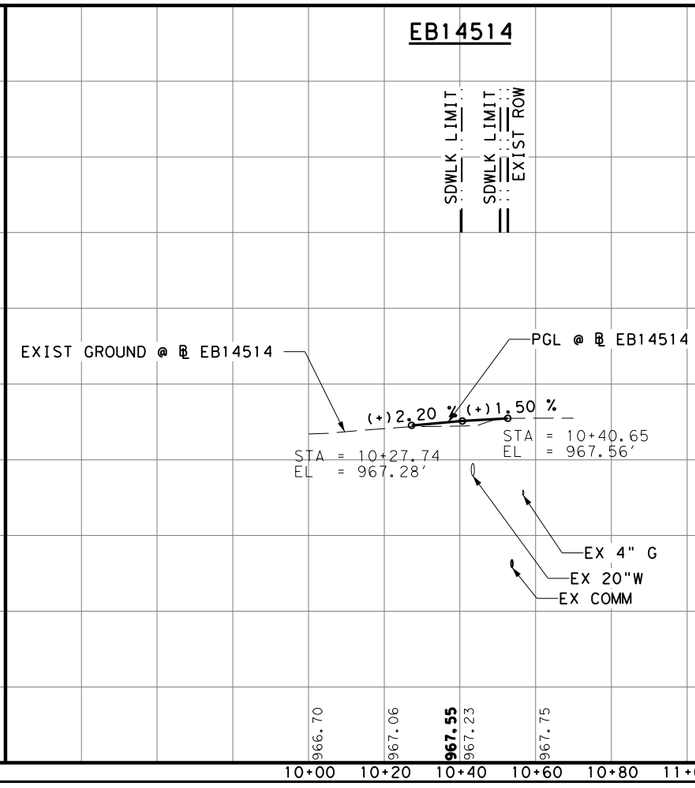
EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

WB24517



EB14514



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

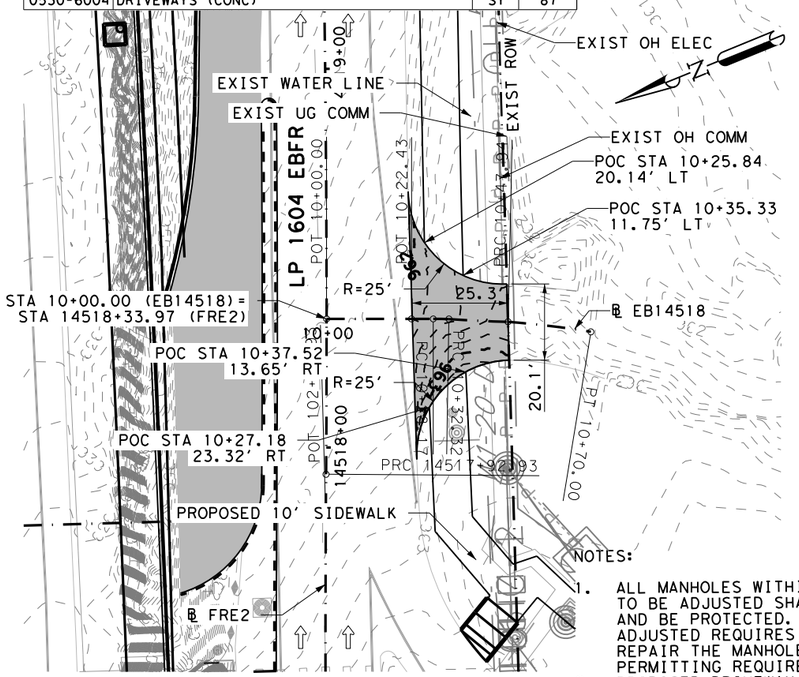
DRIVEWAY PLAN & PROFILE

SHEET 32 OF 44

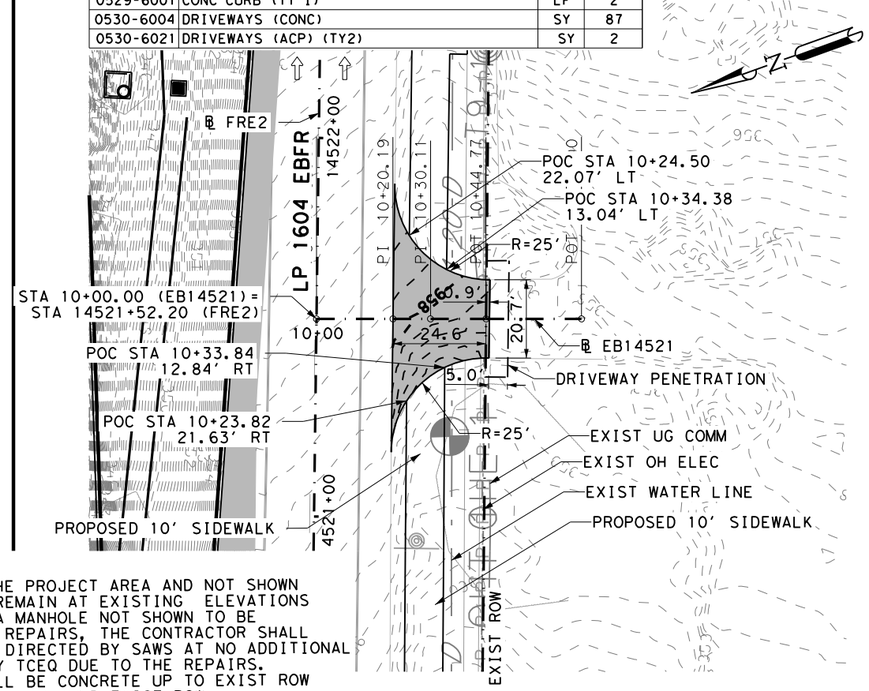
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	946

6:32:10 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY32.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	87



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	2
0530-6004	DRIVEWAYS (CONC)	SY	87
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	2



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

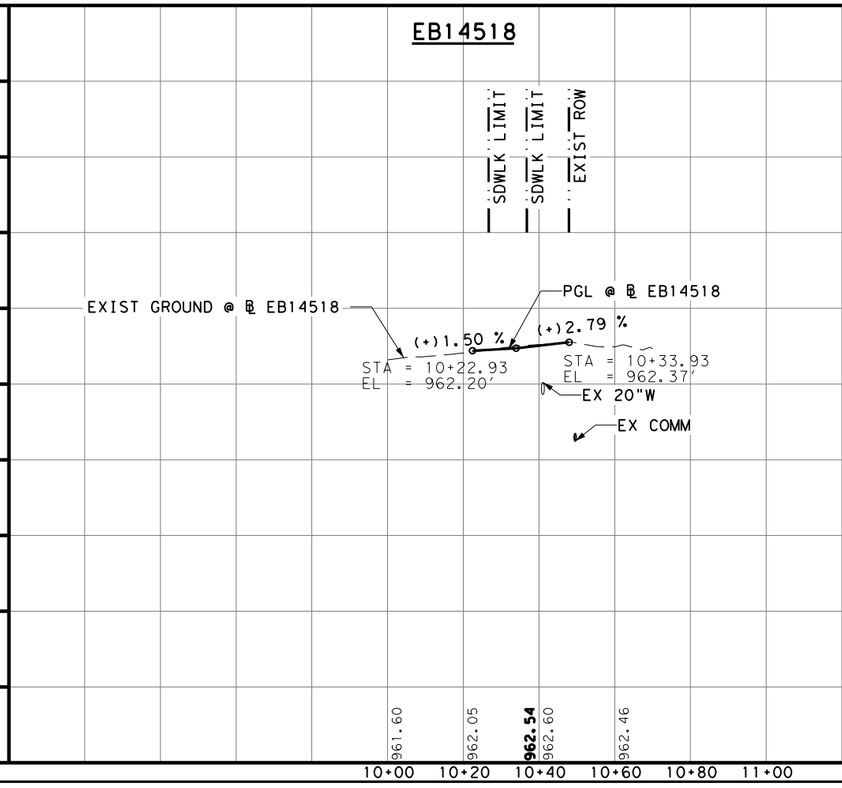
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

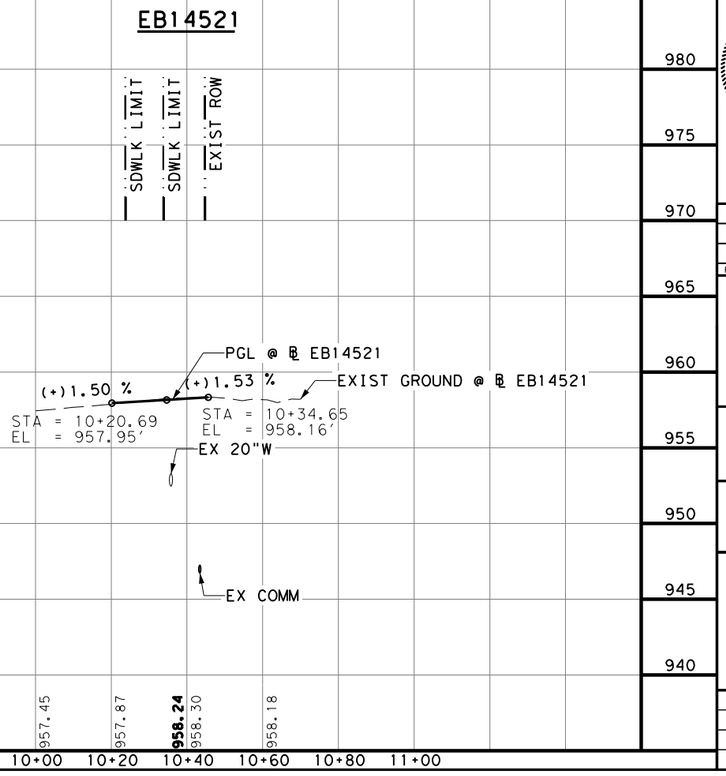
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14518



EB14521



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

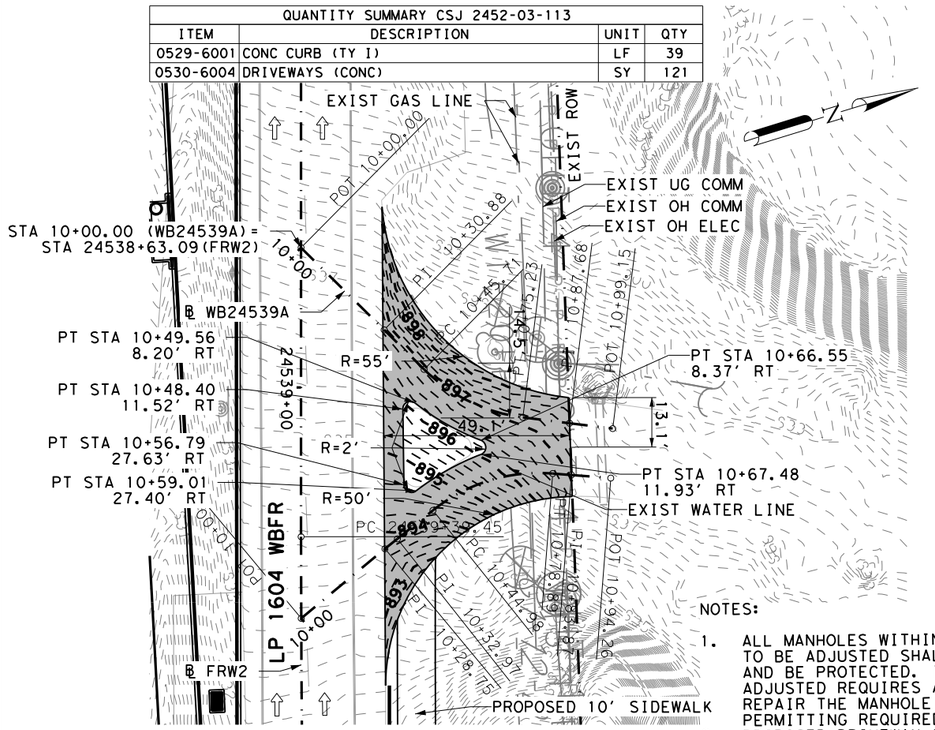
DRIVEWAY PLAN & PROFILE

SHEET 33 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	947

6:33:10 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY33.dgn

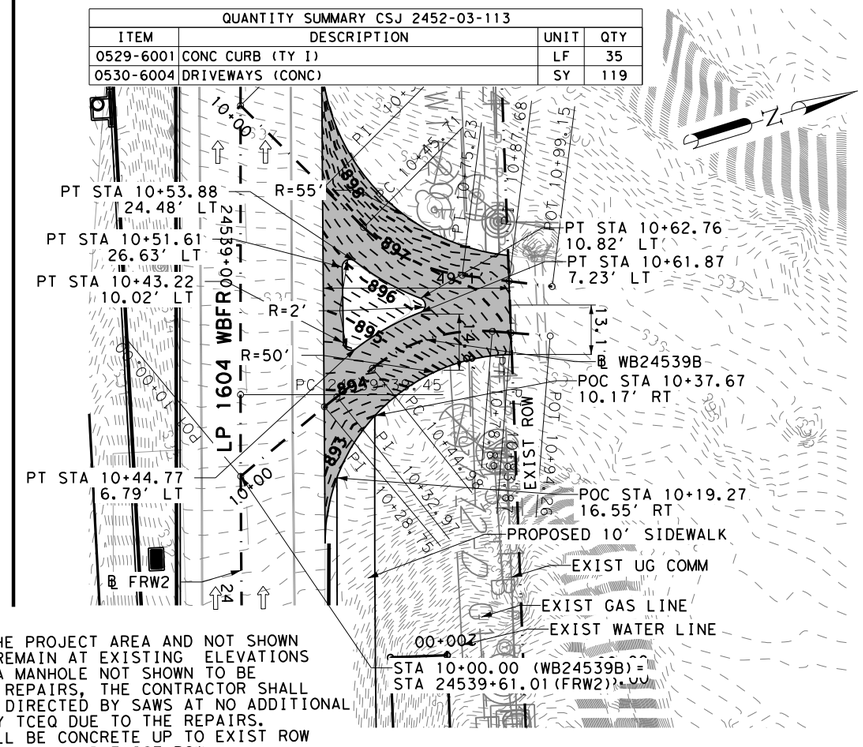
QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	39
0530-6004	DRIVEWAYS (CONC)	SY	121



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	35
0530-6004	DRIVEWAYS (CONC)	SY	119



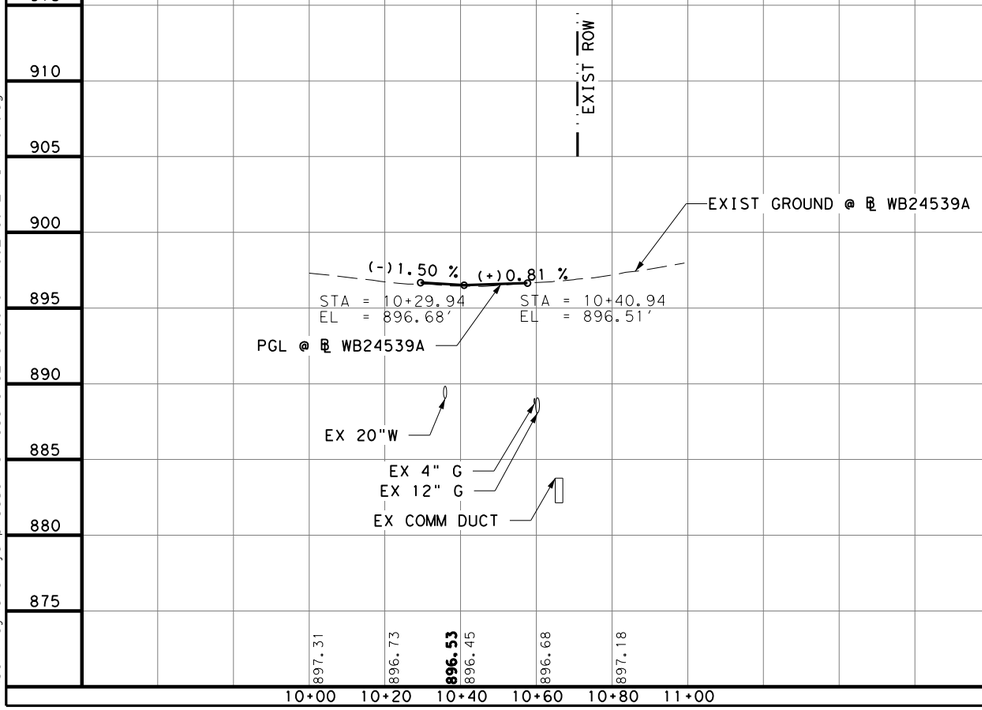
LEGEND

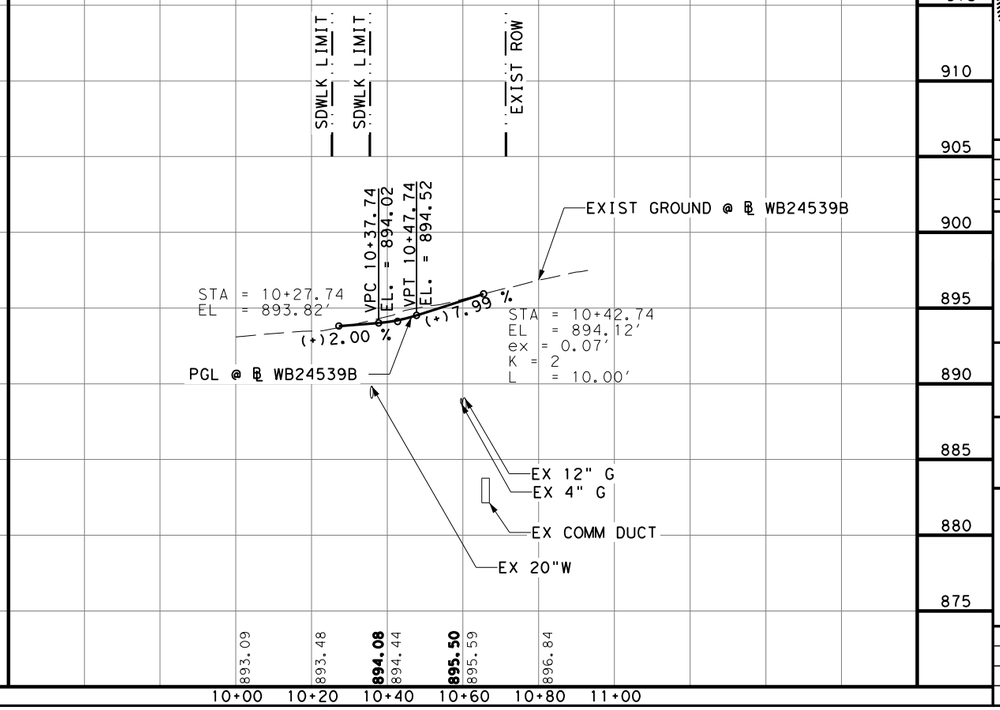
EXIST CONTOUR

PROP CONTOUR

LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT





DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

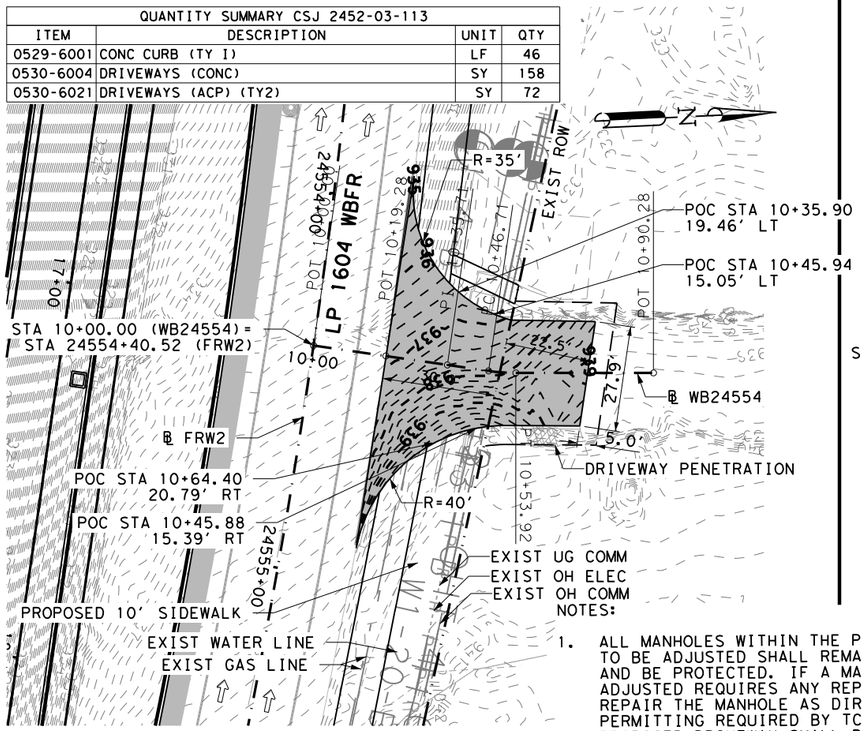
DRIVEWAY PLAN & PROFILE

SHEET 34 OF 44

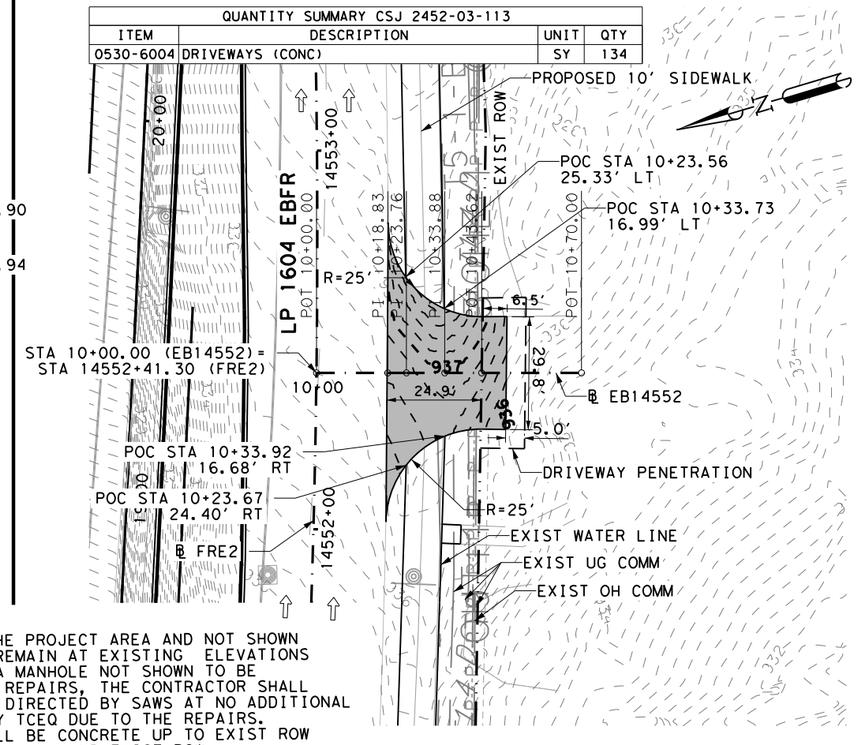
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	948

6:33:59 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l30_1604_PPDRWY34.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	46
0530-6004	DRIVEWAYS (CONC)	SY	158
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	72



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	134



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

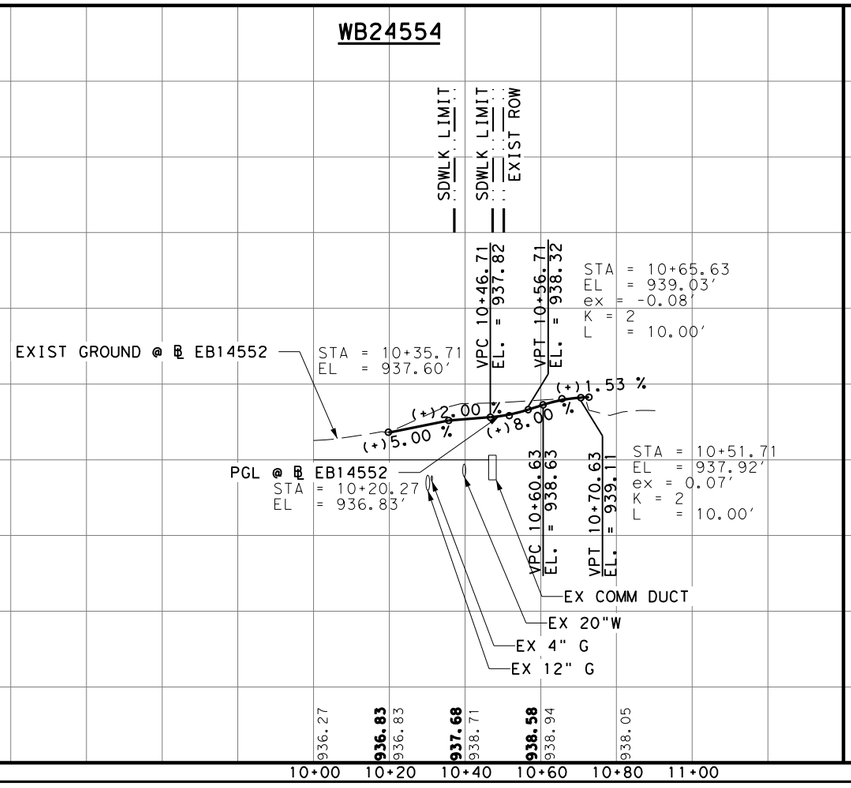
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

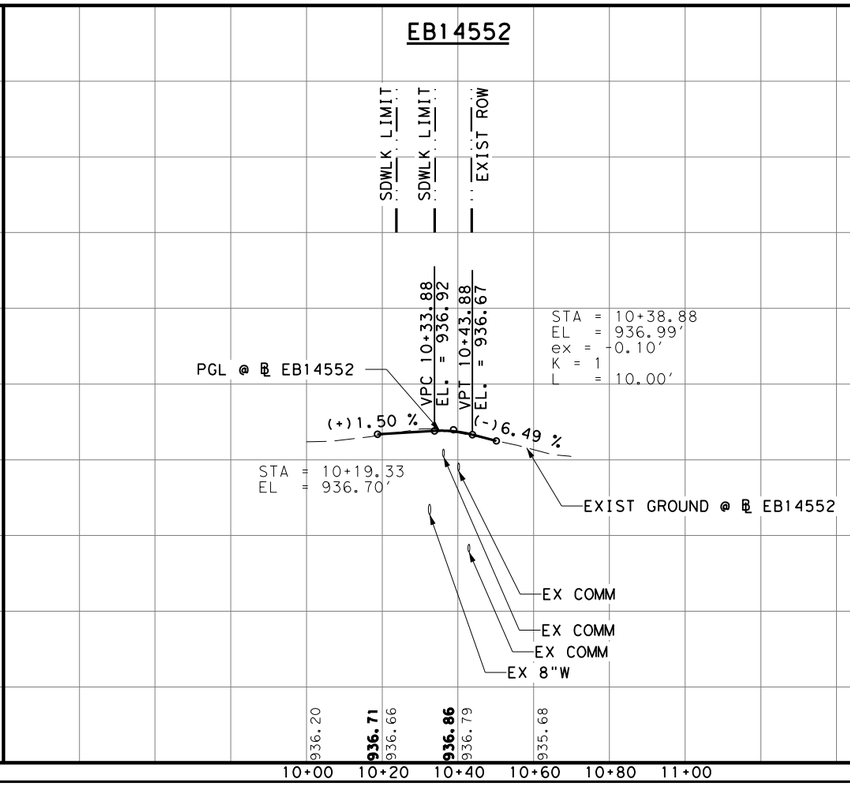
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

WB24554



EB14552



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

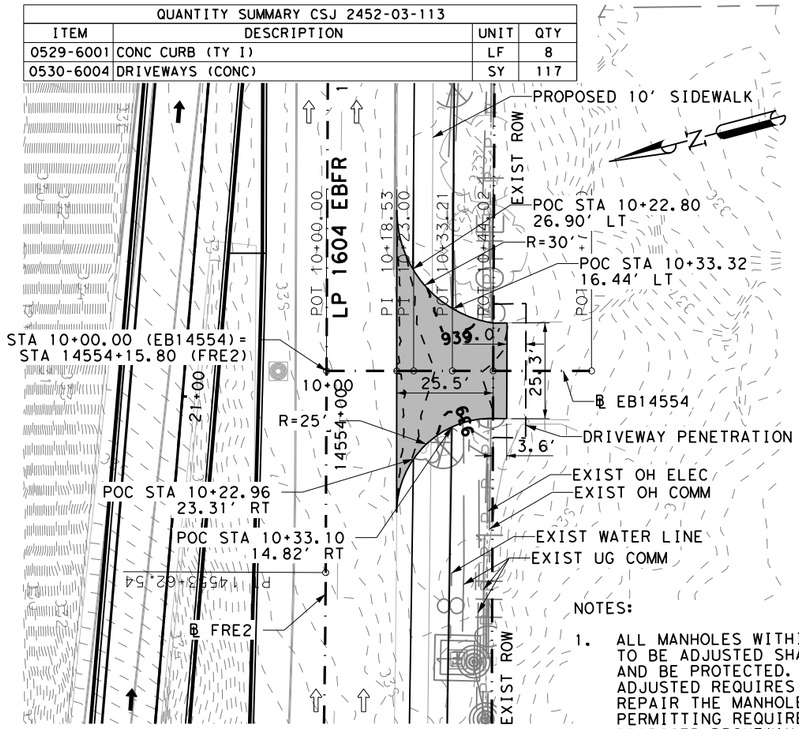
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 35 OF 44

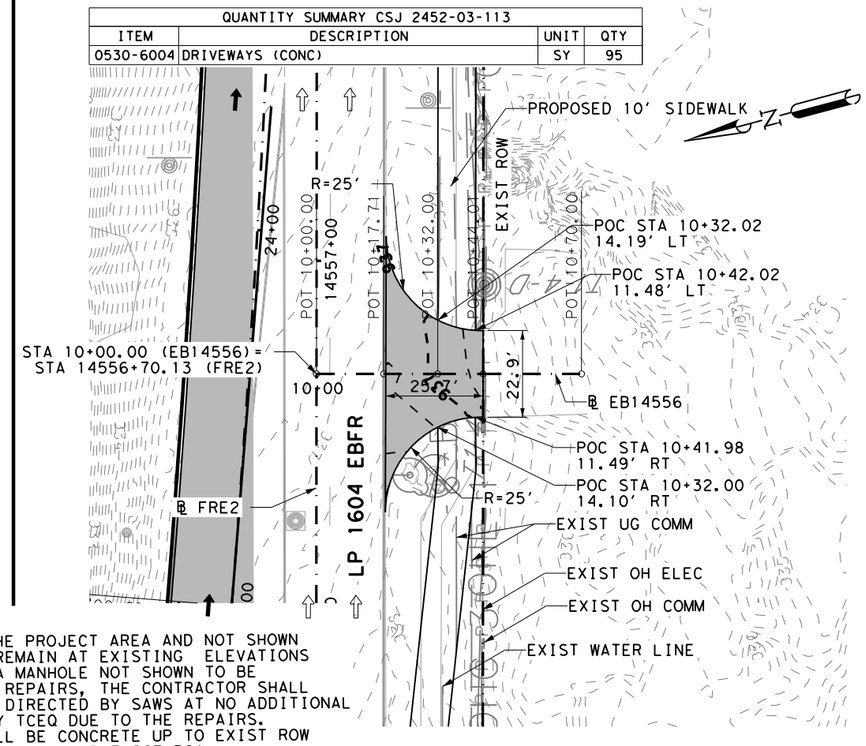
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	949

6:34:50 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY35.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	8
0530-6004	DRIVEWAYS (CONC)	SY	117



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	95



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

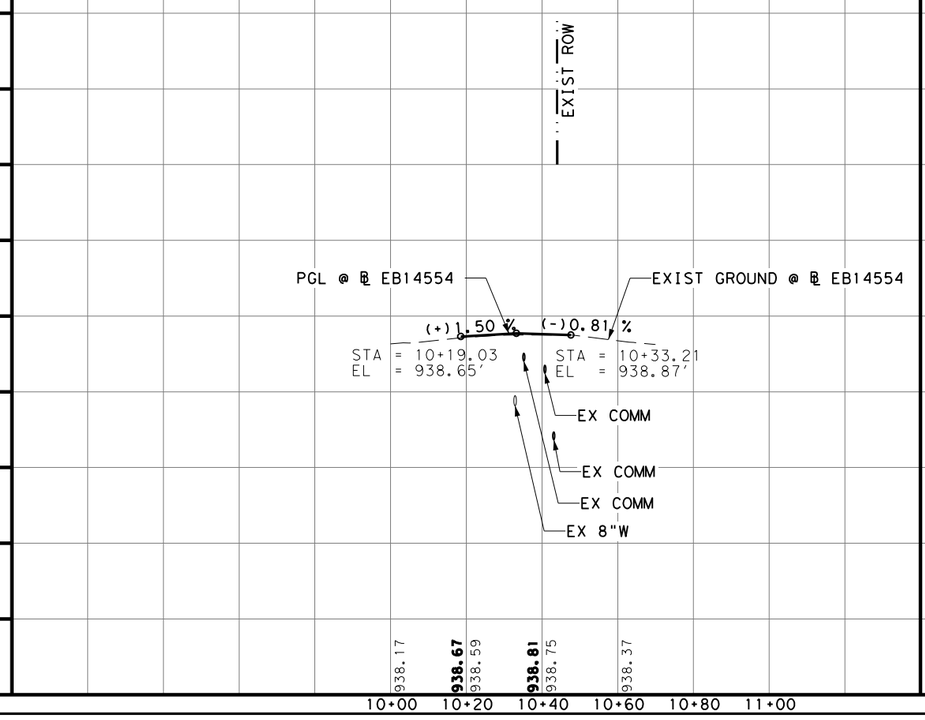
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

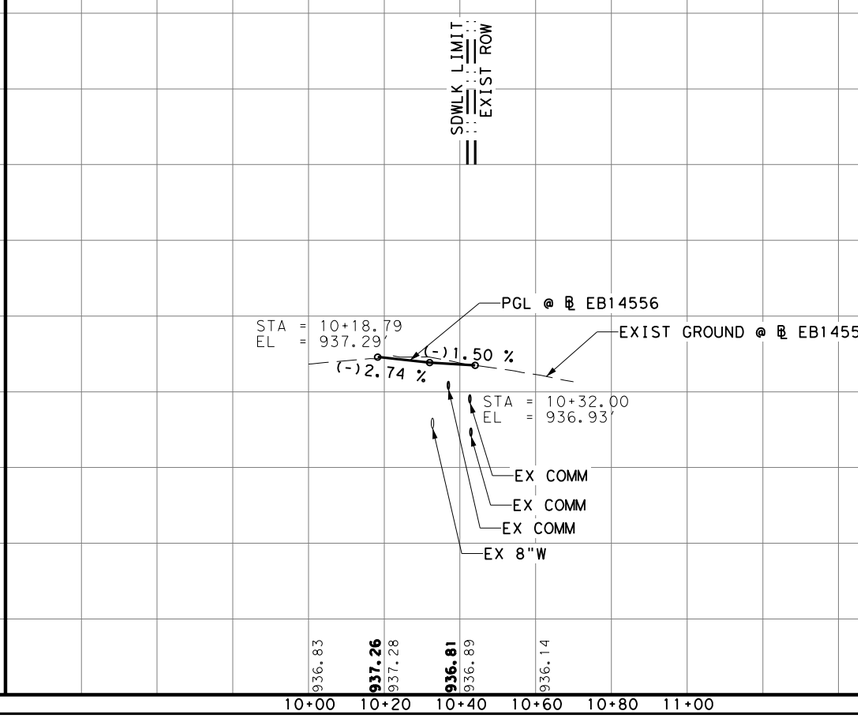
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14554



EB14556



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

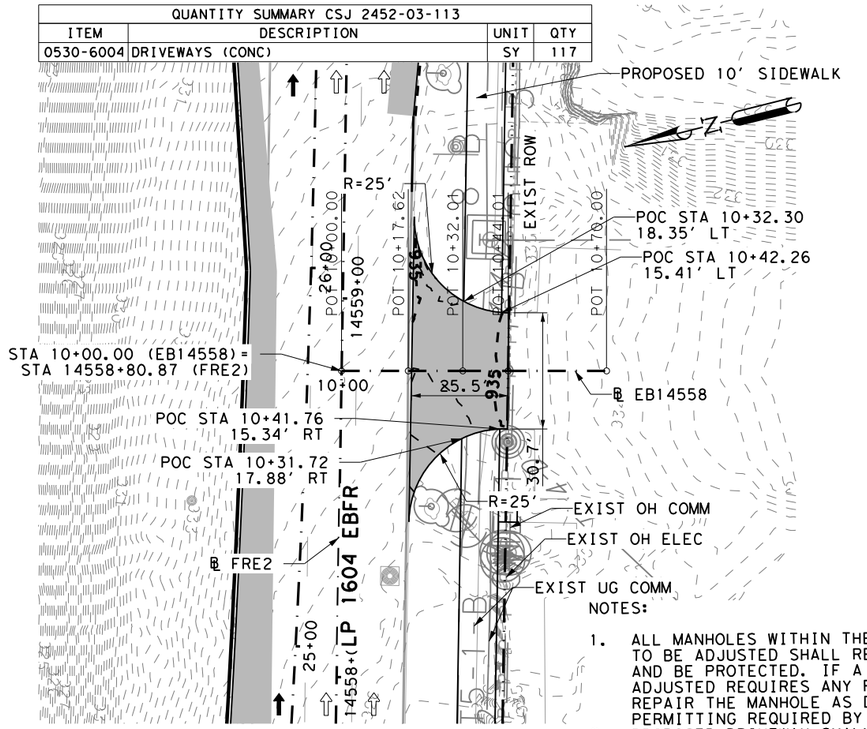
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 36 OF 44

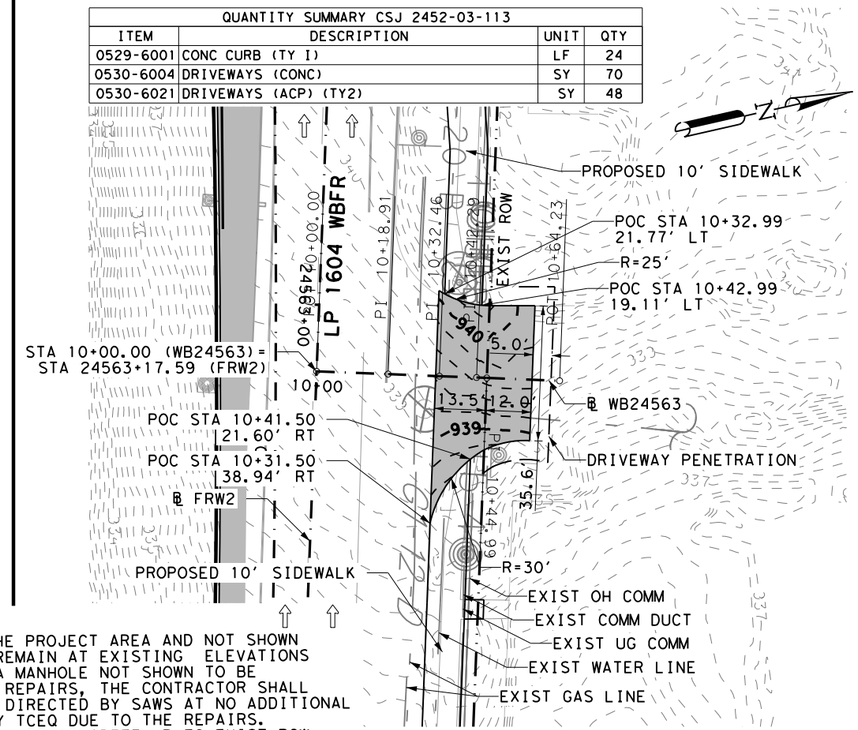
FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	950

6:35:40 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_1604_PPDRWY36.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	117



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	24
0530-6004	DRIVEWAYS (CONC)	SY	70
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	48



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

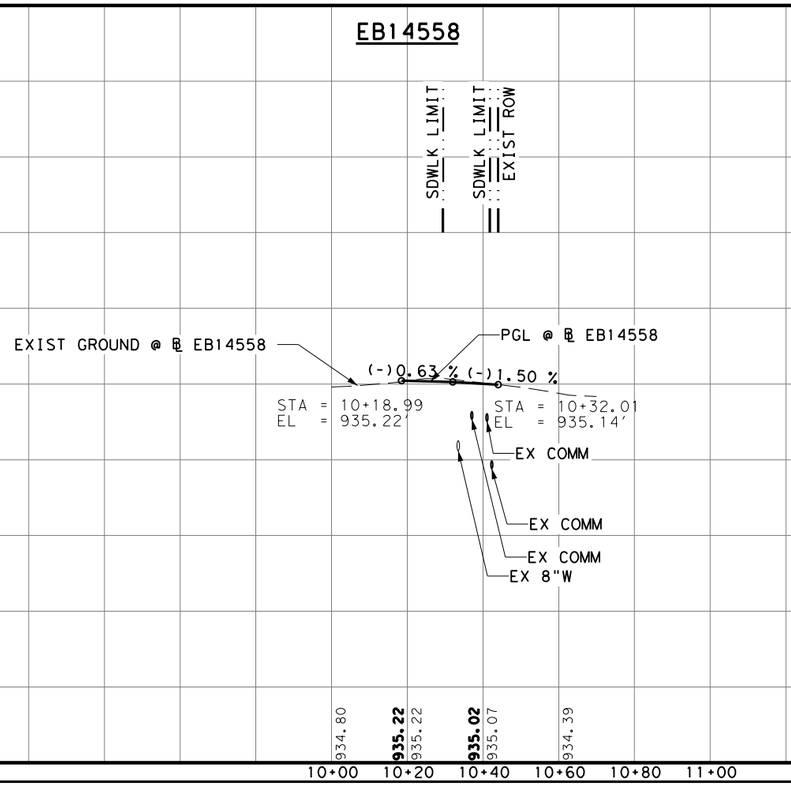
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-0 — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

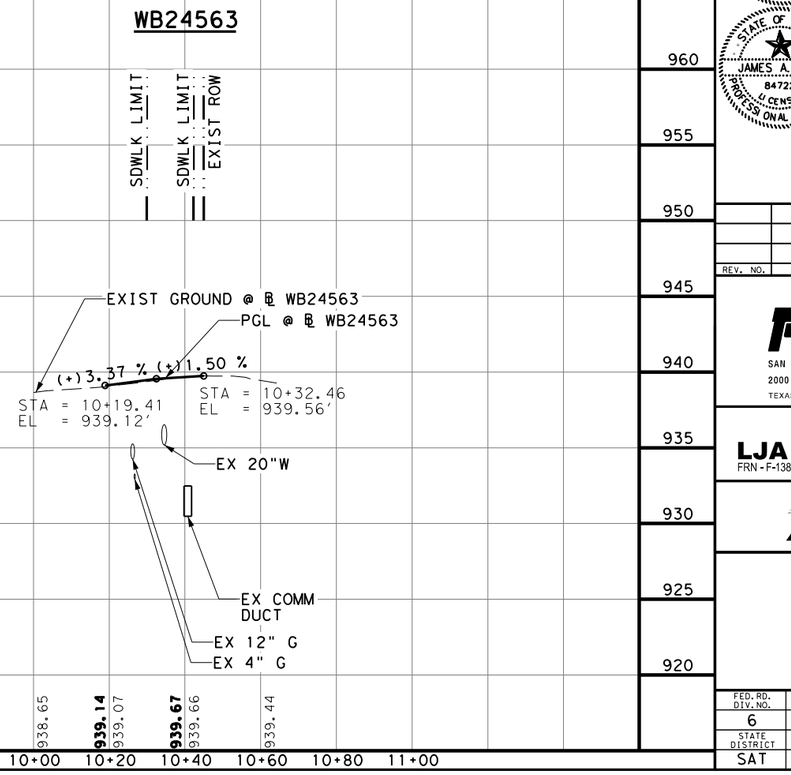
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14558



WB24563



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

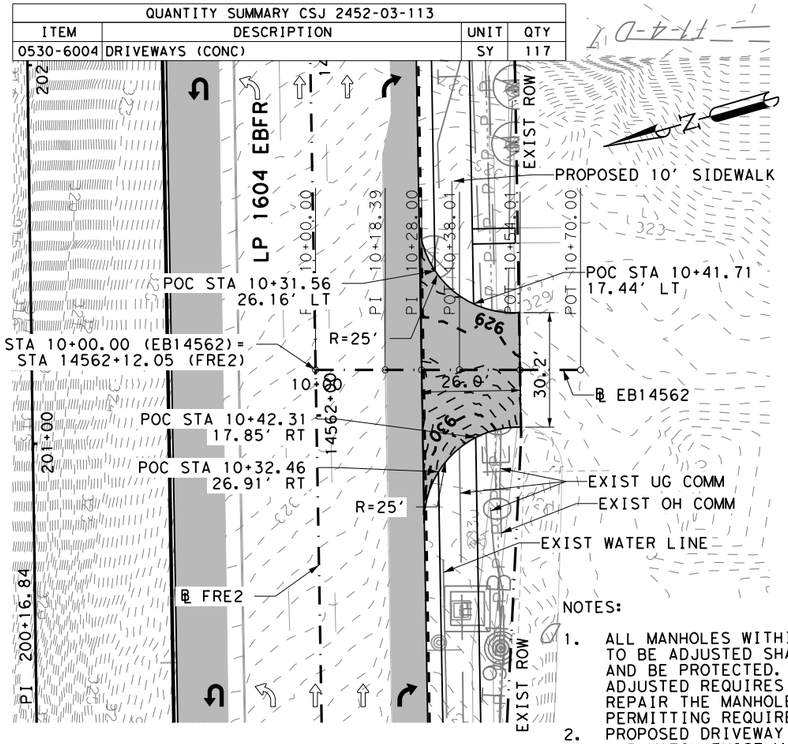
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 37 OF 44

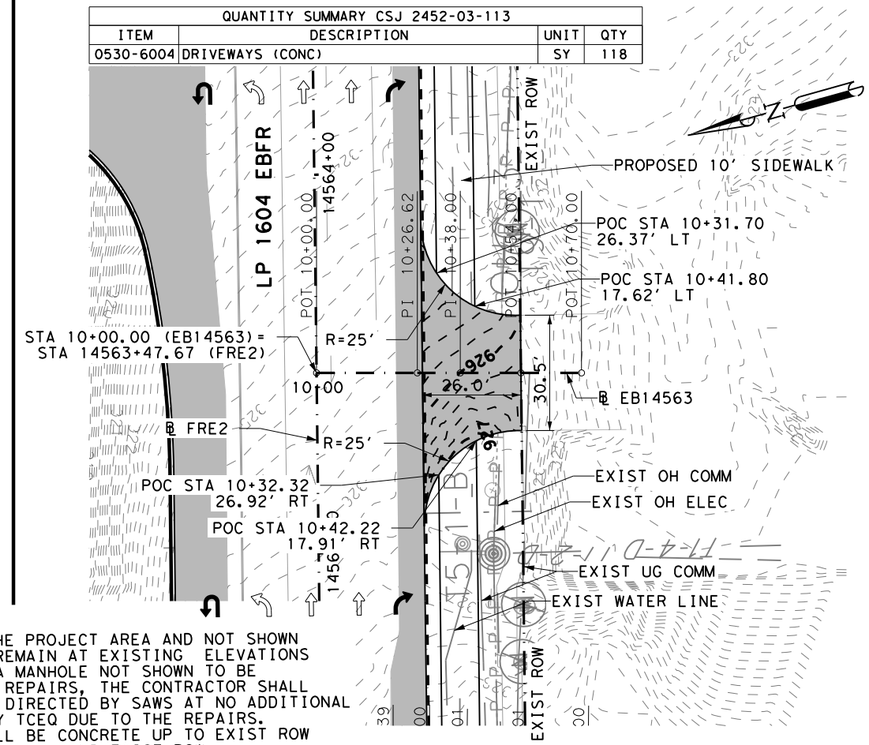
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	951

6:36:32 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_1604_PPDRWY37.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	117



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	118



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

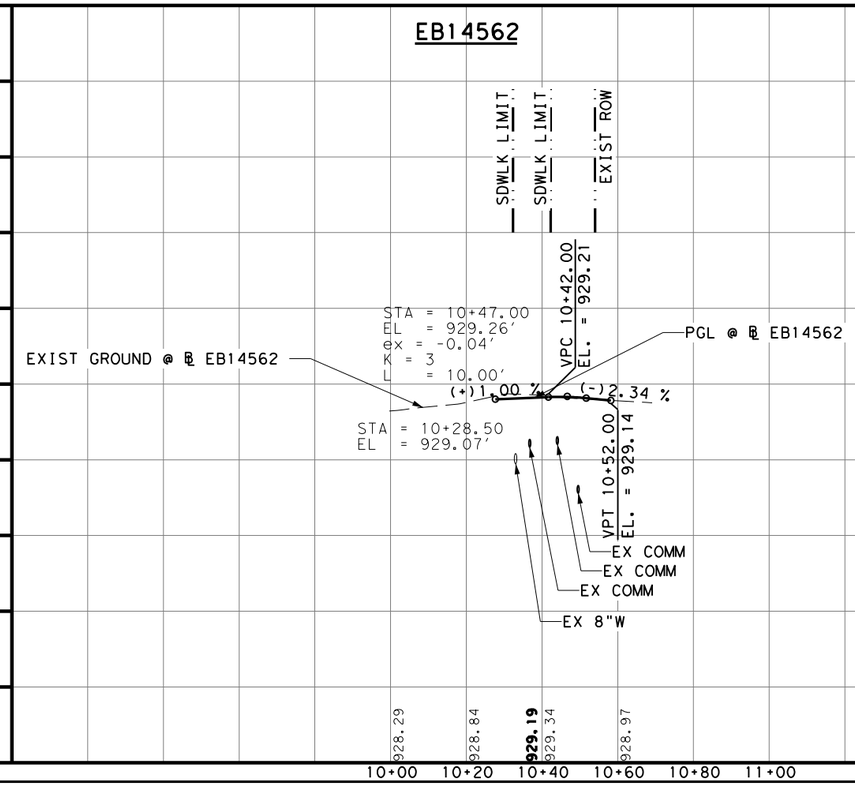
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

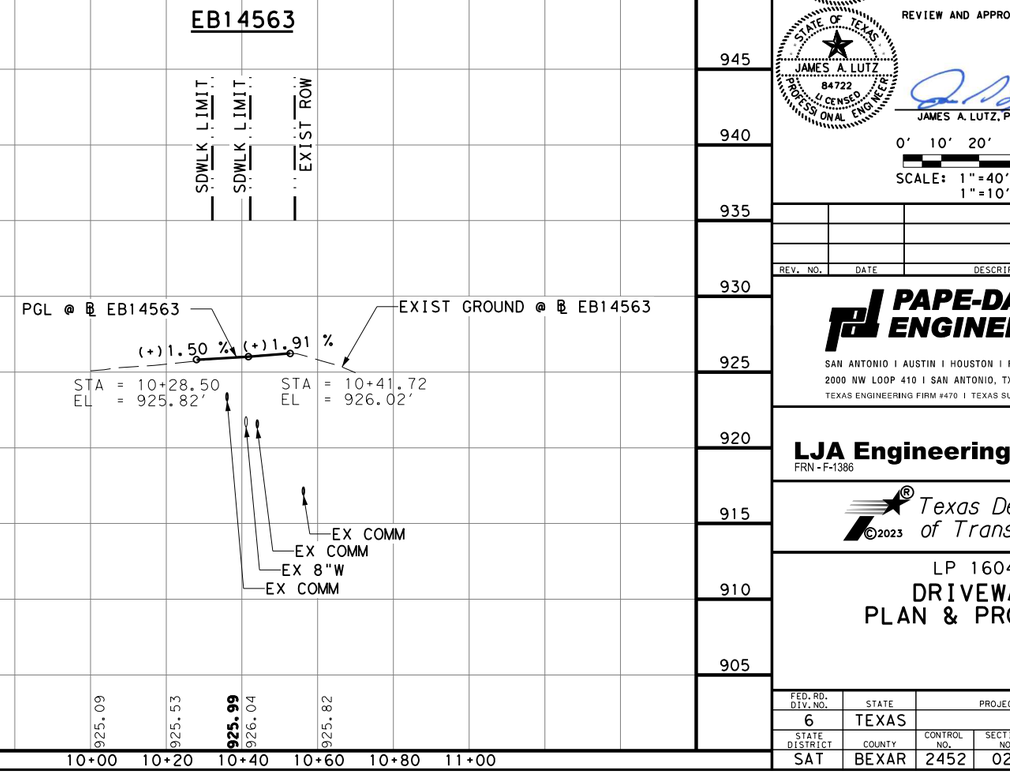
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

EB14562



EB14563



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

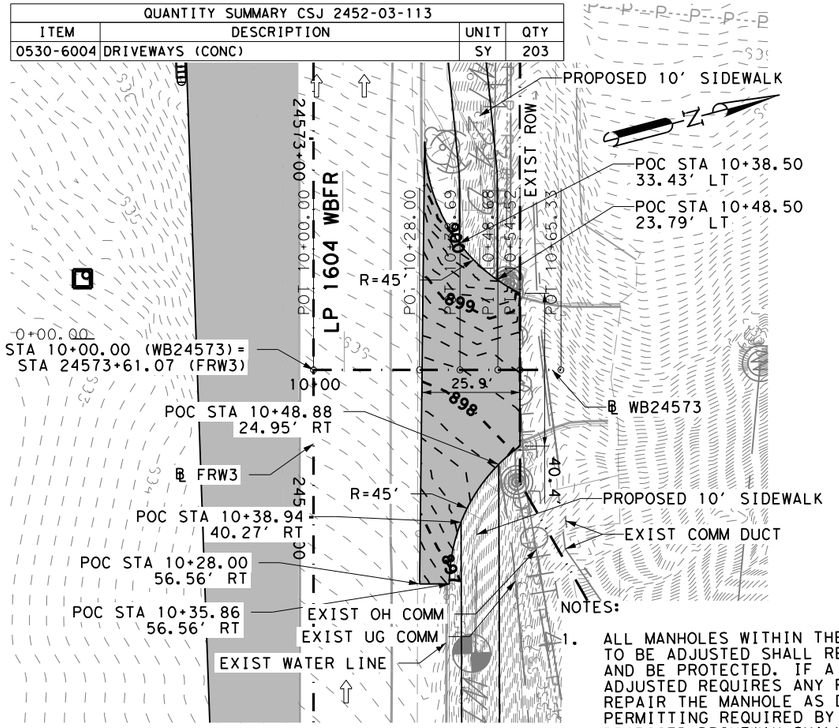
©2023 Texas Department of Transportation

LP 1604
DRIVEWAY
PLAN & PROFILE

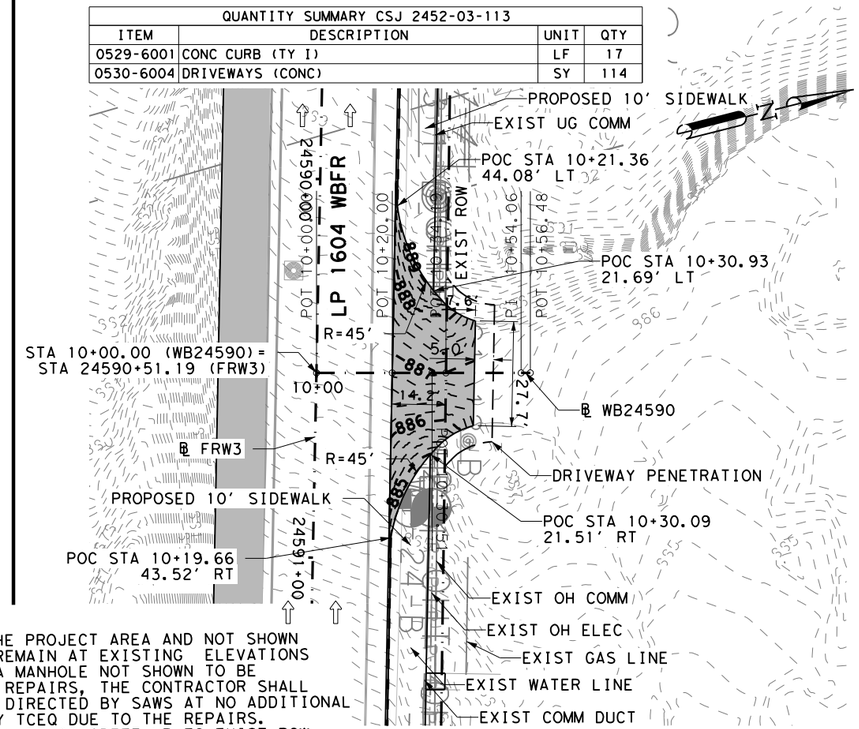
SHEET 38 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	952

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	203



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	17
0530-6004	DRIVEWAYS (CONC)	SY	114



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

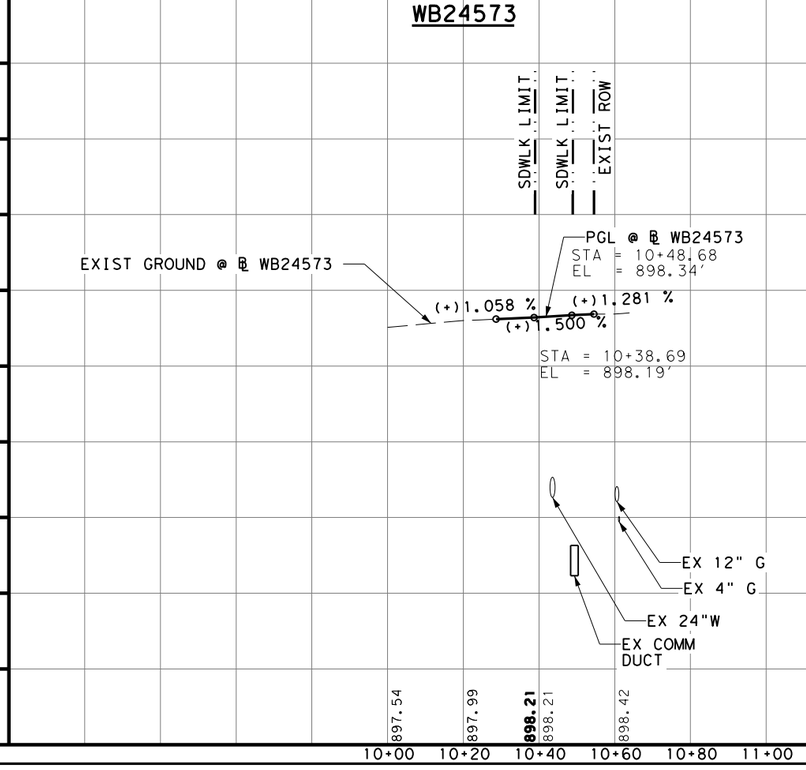
LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

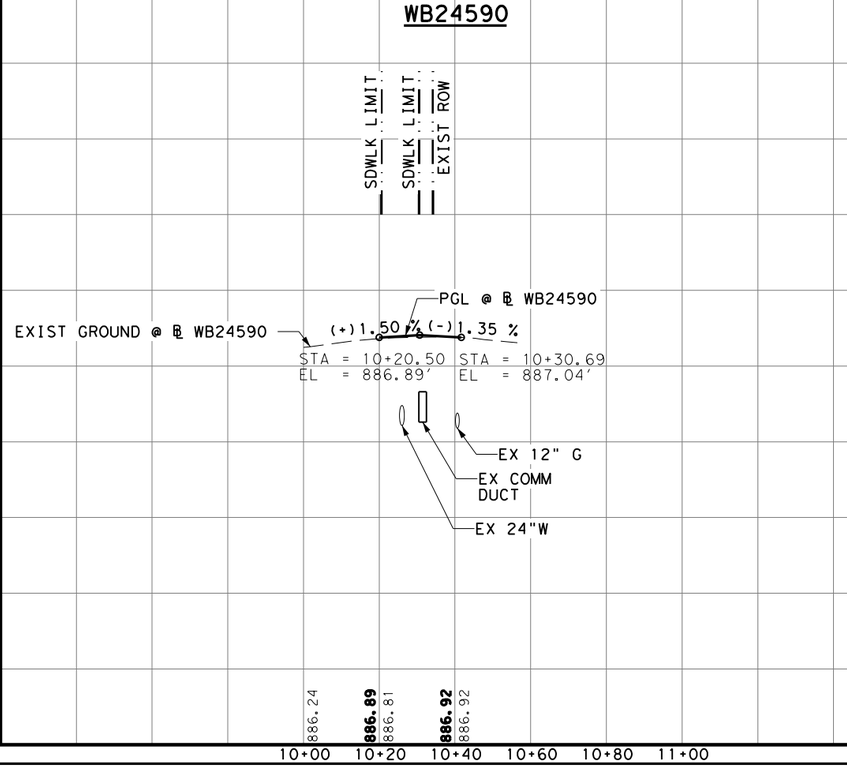
LEGEND

- EXIST CONTOUR
- PROP CONTOUR

WB24573



WB24590



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

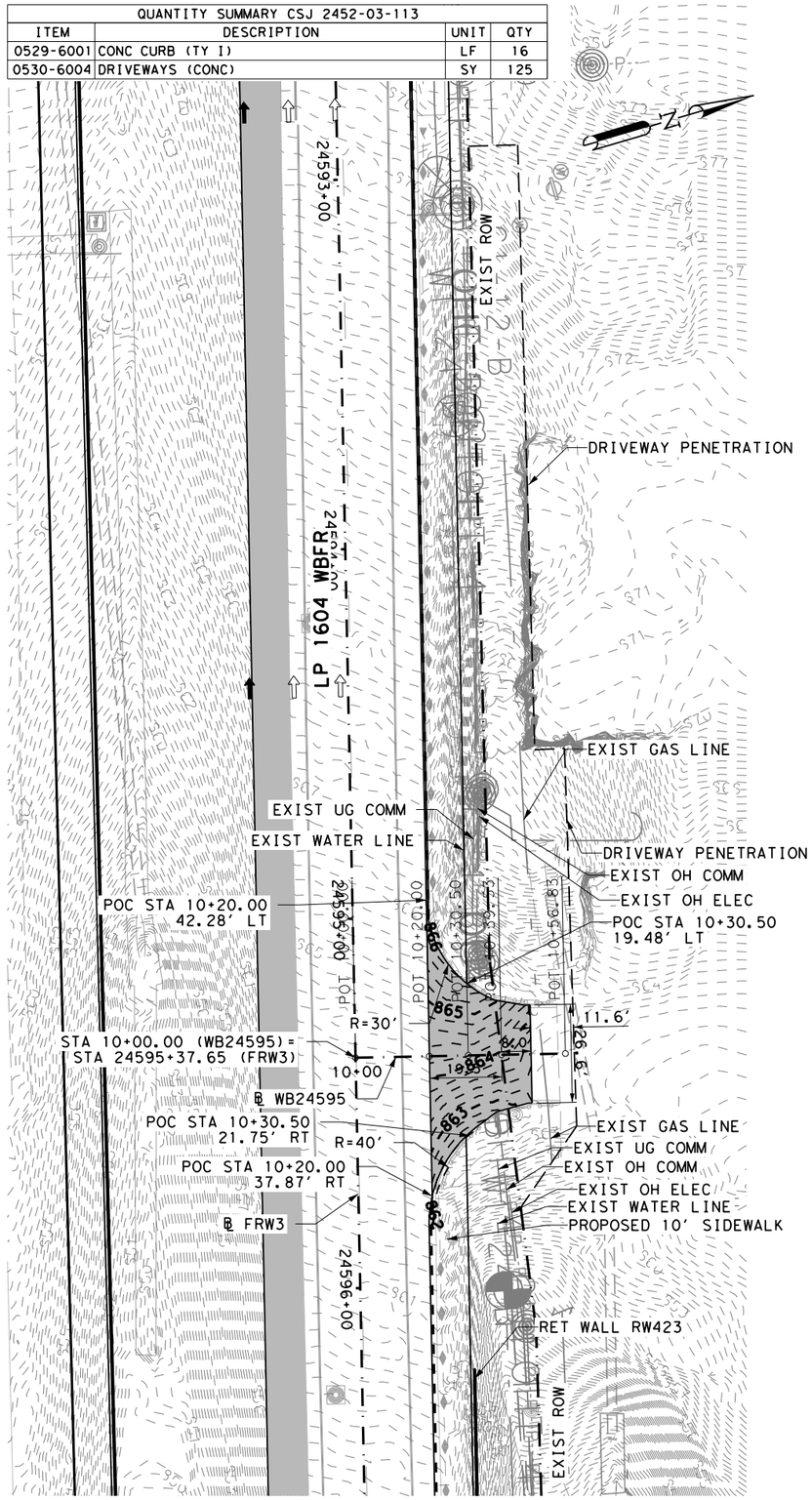
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 39 OF 44

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	953

6:38:13 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY39.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	16
0530-6004	DRIVEWAYS (CONC)	SY	125



LEGEND:

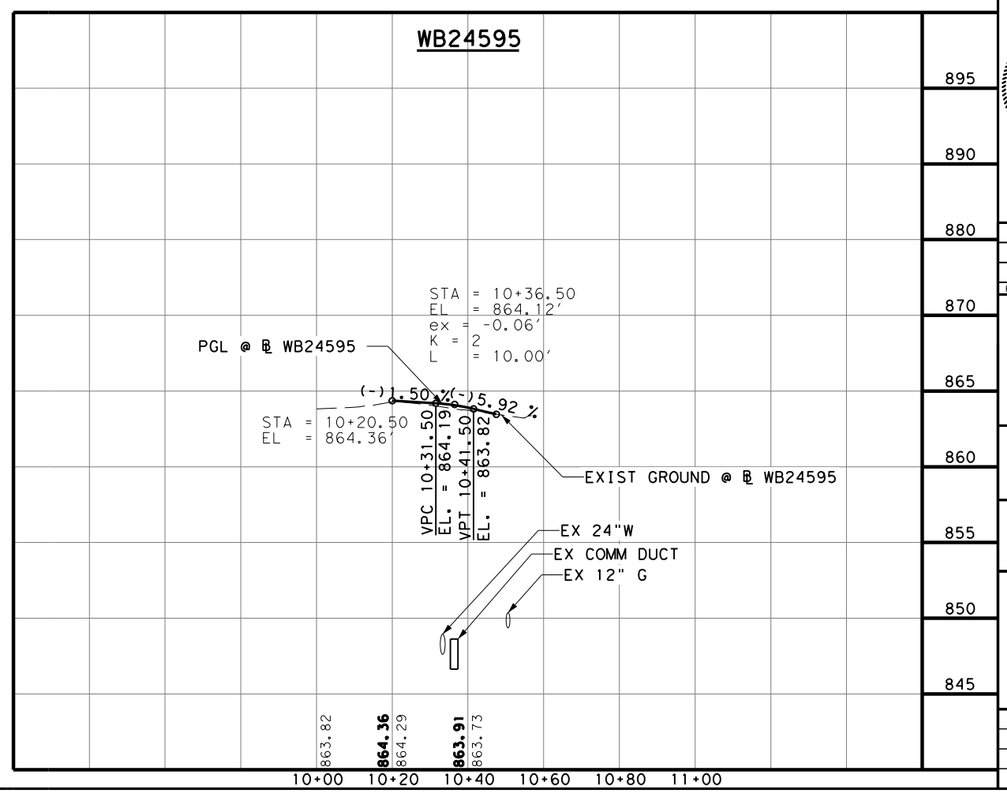
- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

LEGEND

- EXIST CONTOUR
- PROP CONTOUR

NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

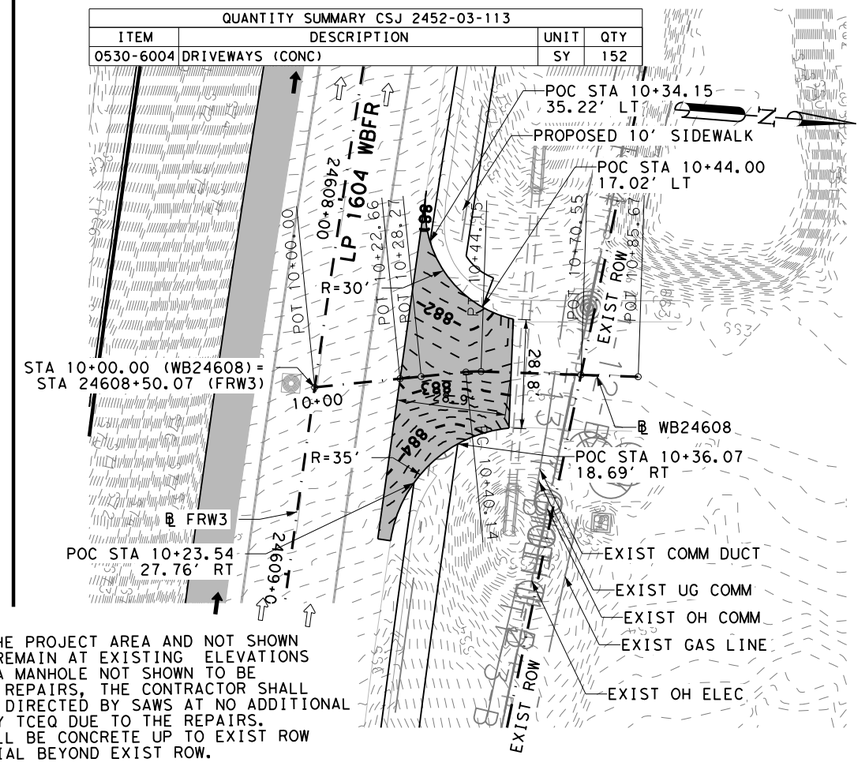
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 40 OF 44

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	954

6:38:59 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY40.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	152



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

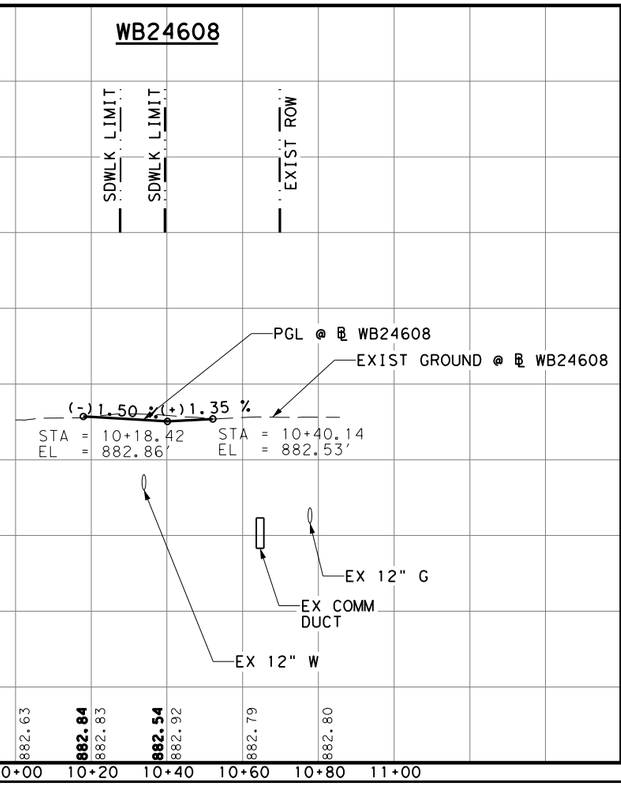
LEGEND

EXIST CONTOUR
PROP CONTOUR

LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

WB24608



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

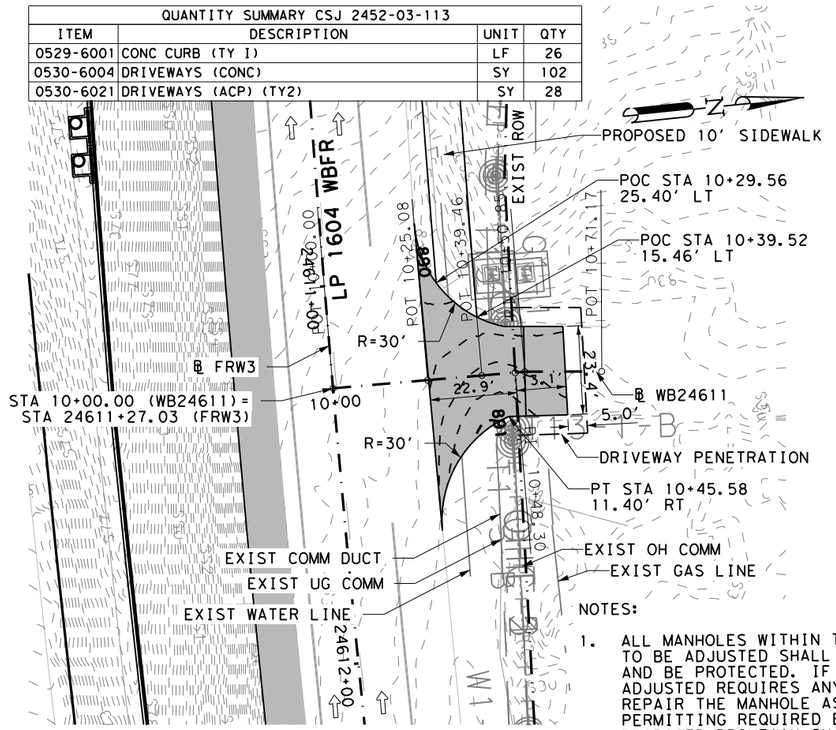
LP 1604
DRIVEWAY PLAN & PROFILE

SHEET 41 OF 44

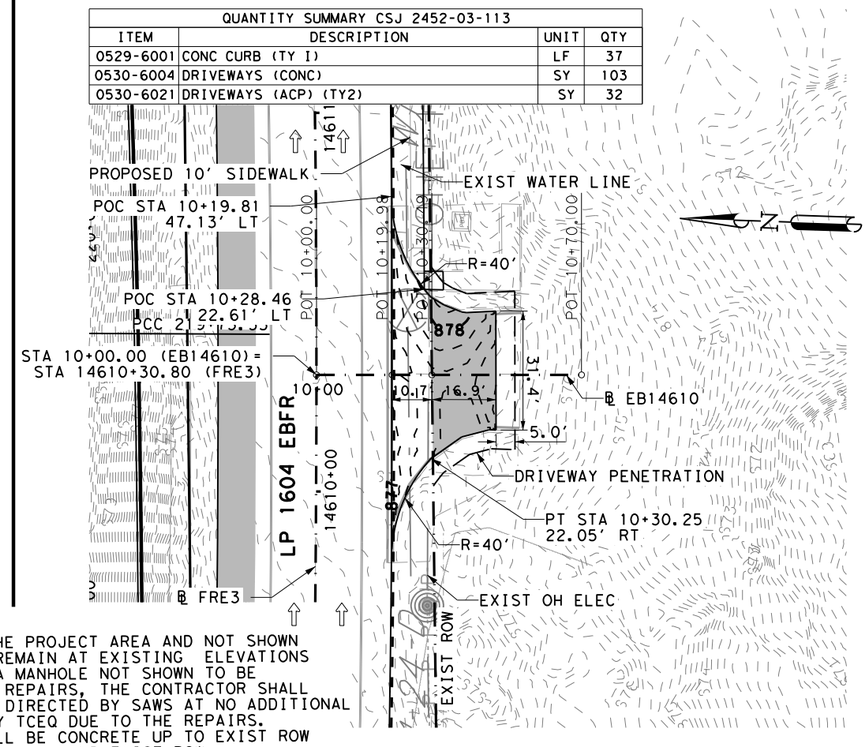
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	955

6:39:43 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY41.dgn

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	26
0530-6004	DRIVEWAYS (CONC)	SY	102
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	28



QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	37
0530-6004	DRIVEWAYS (CONC)	SY	103
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	32



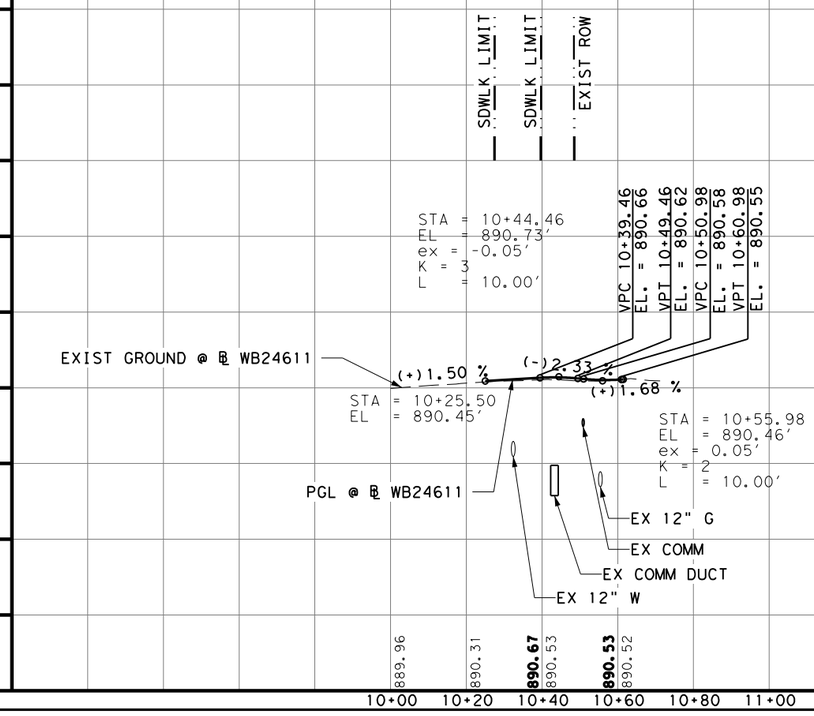
LEGEND

EXIST CONTOUR
PROP CONTOUR

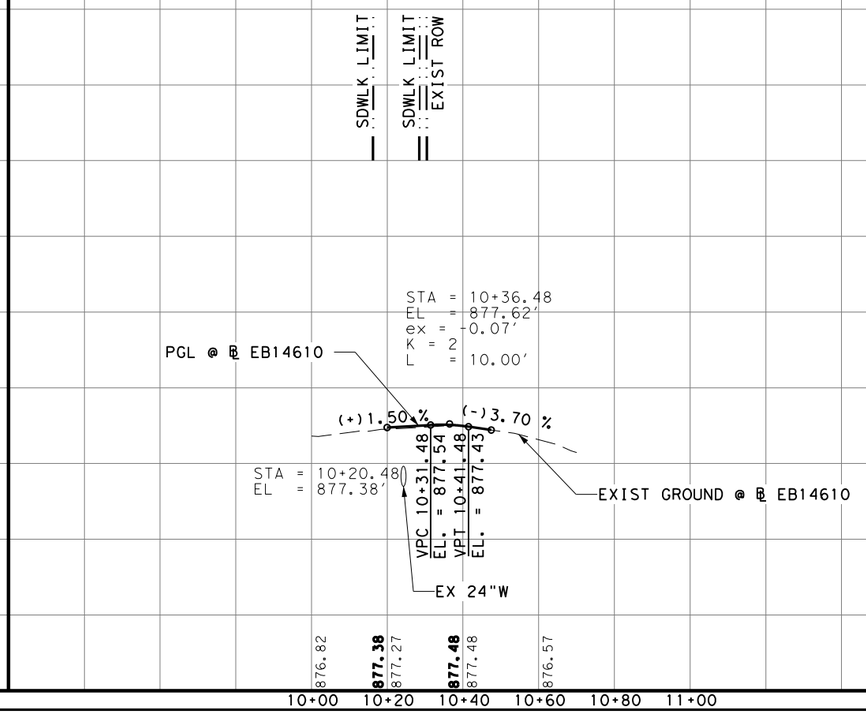
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

WB24611



EB14610



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

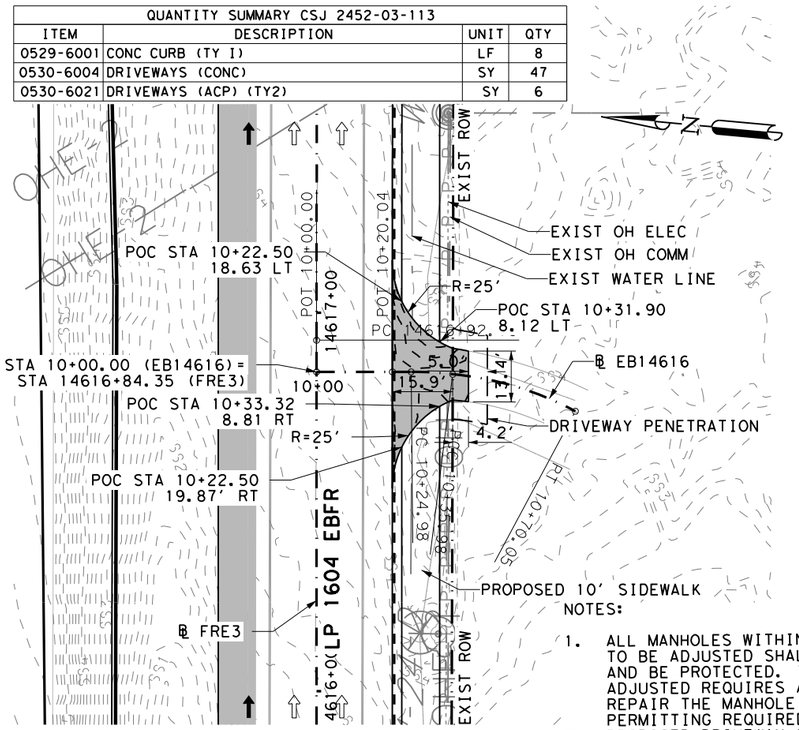
©2023 Texas Department of Transportation

LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 42 OF 44

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	956

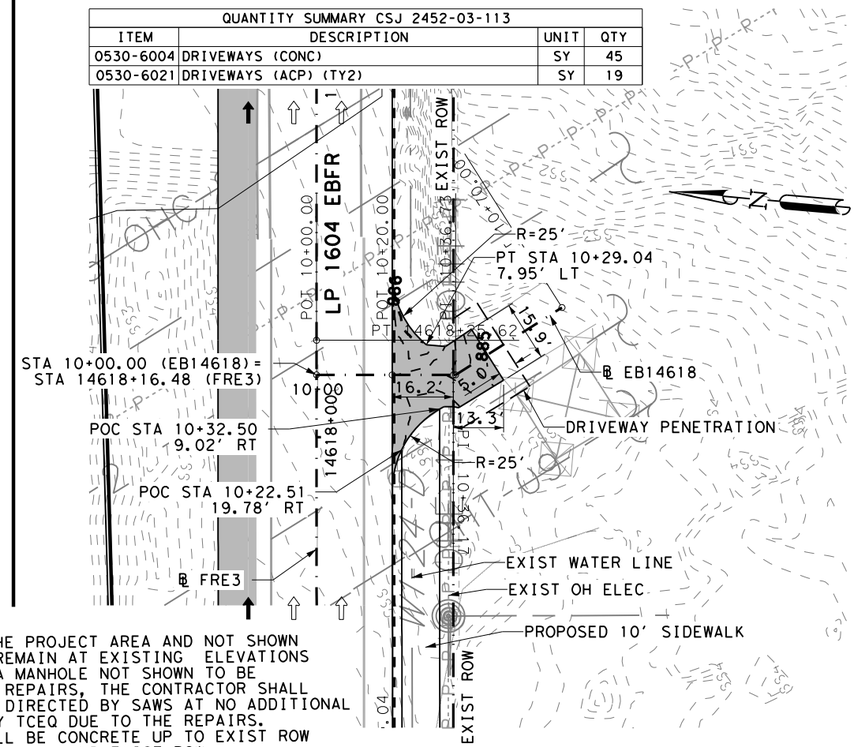
QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	8
0530-6004	DRIVEWAYS (CONC)	SY	47
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	6



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0530-6004	DRIVEWAYS (CONC)	SY	45
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	19



LEGEND

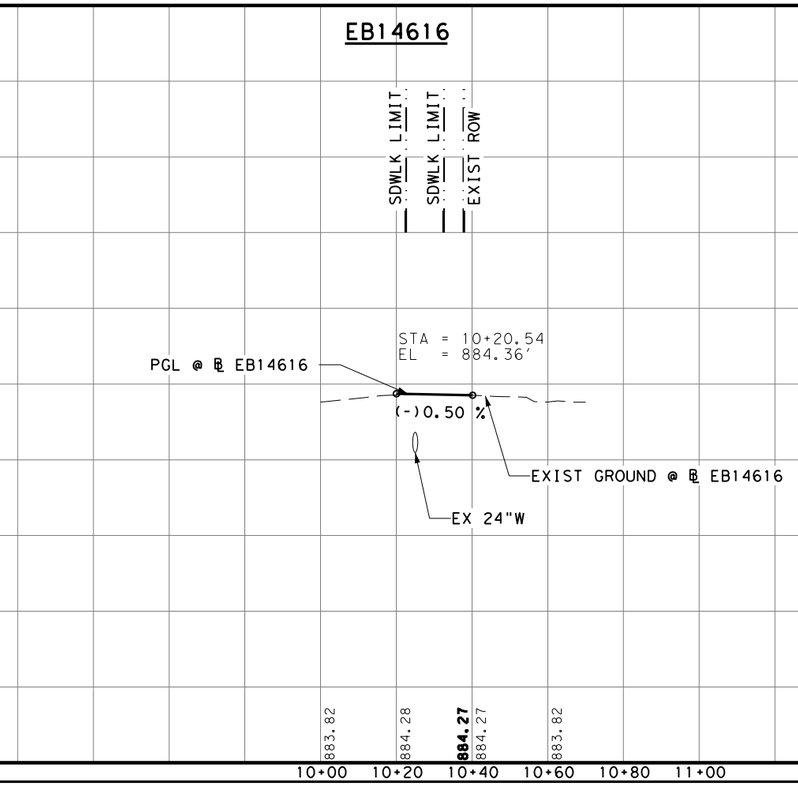
EXIST CONTOUR

PROP CONTOUR

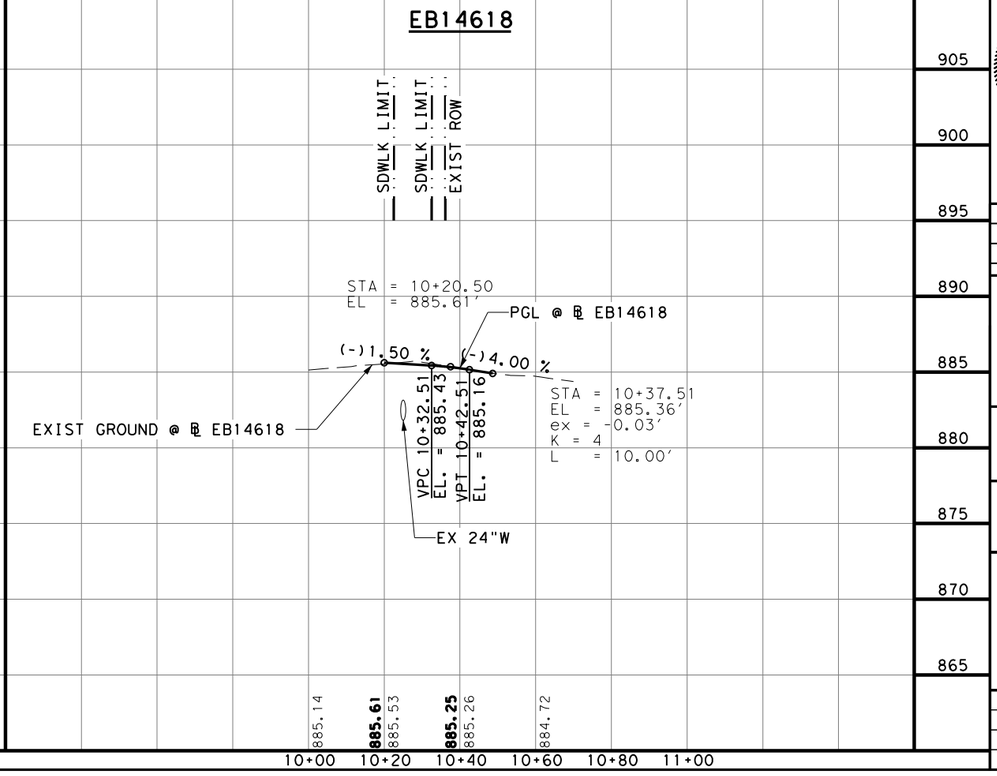
LEGEND:

EXIST ROW
PROP PENETRATION
WIDEN CONTROL LINE
EXIST TRF FLOW
PROP TRF FLOW
PROP CONCRETE
PROP WIDENING
XXX-X CURVE ID LABEL
XXXXX DRIVEWAY ID
TEST HOLE LOCATION
T1-2 TO T1-4 AT&T (FOC UG, DUCT, COPPER UG)
T4-1 CENTURYLINK
T5-1 CHARTER-SPECTRUM
T7-1 GRANDE
T8-1 CONTERRA
T9-1 MCI-VERIZON
T10-1 TXDOT TRANSGUIDE
T11-1 FIBERLIGHT
T13-1 ZAYO
SI-1-D TXDOT SIGNALS
OHT-1 CHARTER-SPECTRUM
OHC-3 AT&T
OHT-4 GRANDE
OHT-5 CENTURYLINK
OHT-06 CONTERRA
OHT-07 ZAYO
OHT-09 CPS
OHT-10 FIBERLIGHT
OHE-1 CPS ENERGY
OHE-2 CPS ENERGY (TRANSMISSION)
E1-1 CPS ENERGY
E2 TXDOT

EB14616



EB14618



DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

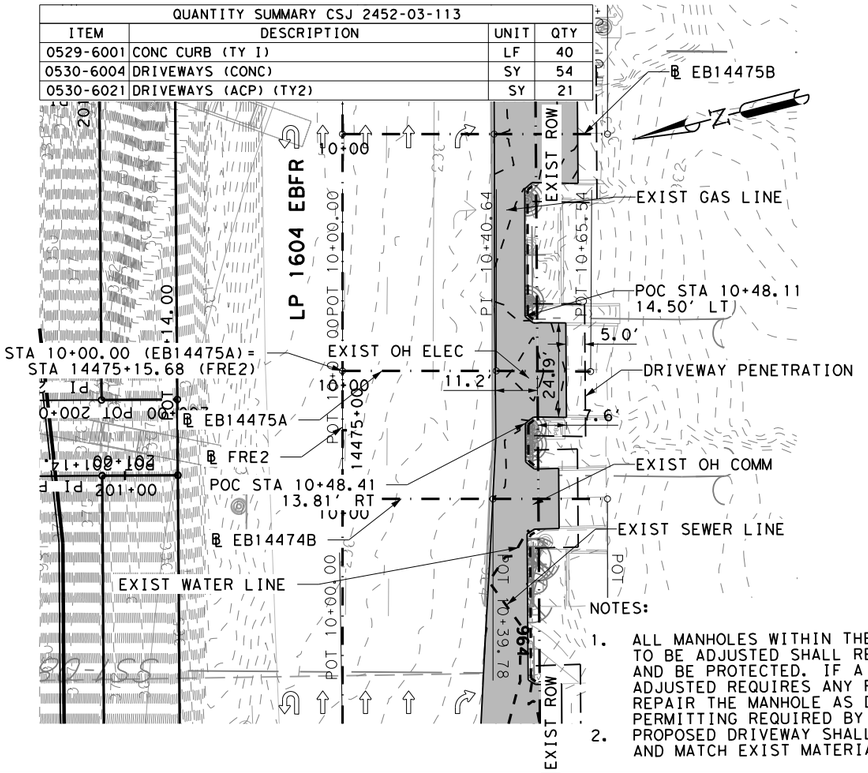
LP 1604
DRIVEWAY
PLAN & PROFILE

SHEET 43 OF 44

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	957

6:41:12 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY43.dgn

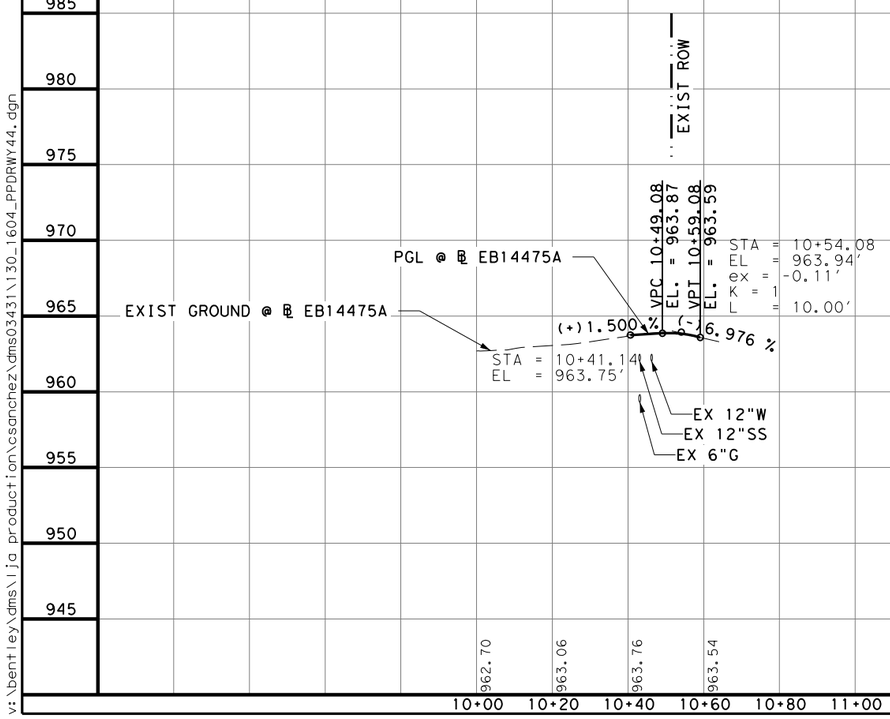
QUANTITY SUMMARY CSJ 2452-03-113			
ITEM	DESCRIPTION	UNIT	QTY
0529-6001	CONC CURB (TY I)	LF	40
0530-6004	DRIVEWAYS (CONC)	SY	54
0530-6021	DRIVEWAYS (ACP) (TY2)	SY	21



NOTES:

1. ALL MANHOLES WITHIN THE PROJECT AREA AND NOT SHOWN TO BE ADJUSTED SHALL REMAIN AT EXISTING ELEVATIONS AND BE PROTECTED. IF A MANHOLE NOT SHOWN TO BE ADJUSTED REQUIRES ANY REPAIRS, THE CONTRACTOR SHALL REPAIR THE MANHOLE AS DIRECTED BY SAWS AT NO ADDITIONAL PERMITTING REQUIRED BY TCEQ DUE TO THE REPAIRS.
2. PROPOSED DRIVEWAY SHALL BE CONCRETE UP TO EXIST ROW AND MATCH EXIST MATERIAL BEYOND EXIST ROW.

EB14475A



LEGEND

EXIST CONTOUR

PROP CONTOUR

LEGEND:

- EXIST ROW
- PROP PENETRATION
- WIDEN CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- PROP WIDENING
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- T1-2 TO T1-4 — AT&T (FOC UG, DUCT, COPPER UG)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'- HORZ
1"=10'- VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

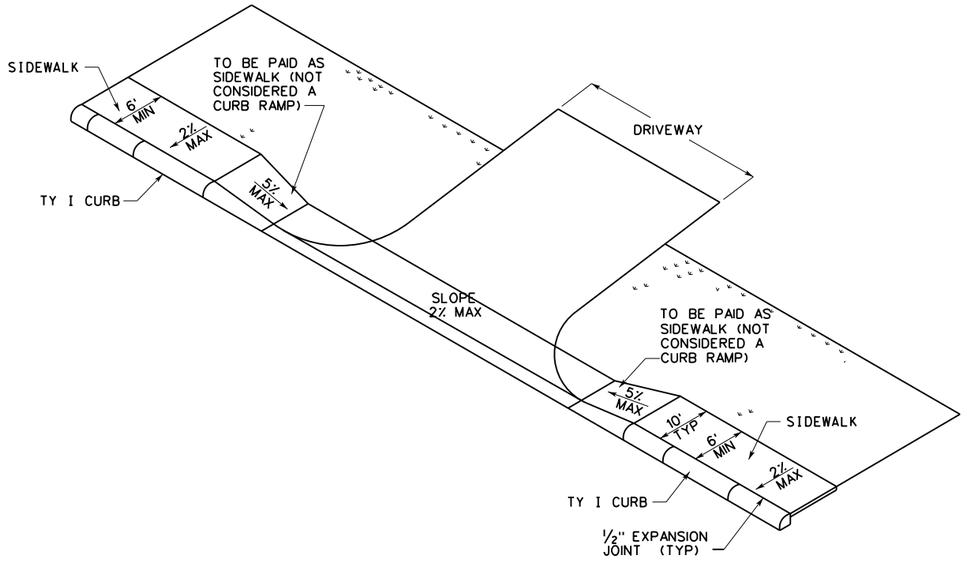
LP 1604

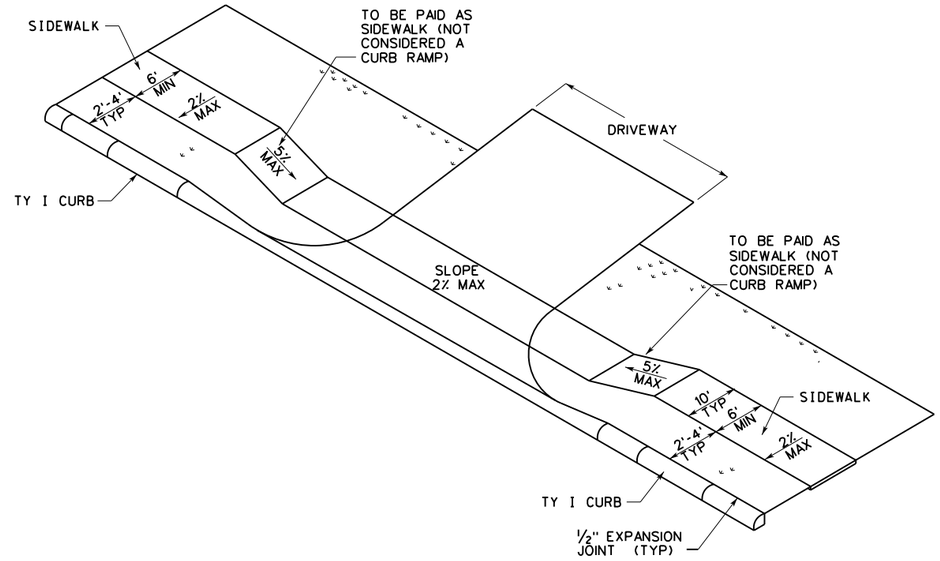
DRIVEWAY PLAN & PROFILE

SHEET 44 OF 44

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	958

6:41:56 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_1604_PPDRWY44.dgn





STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

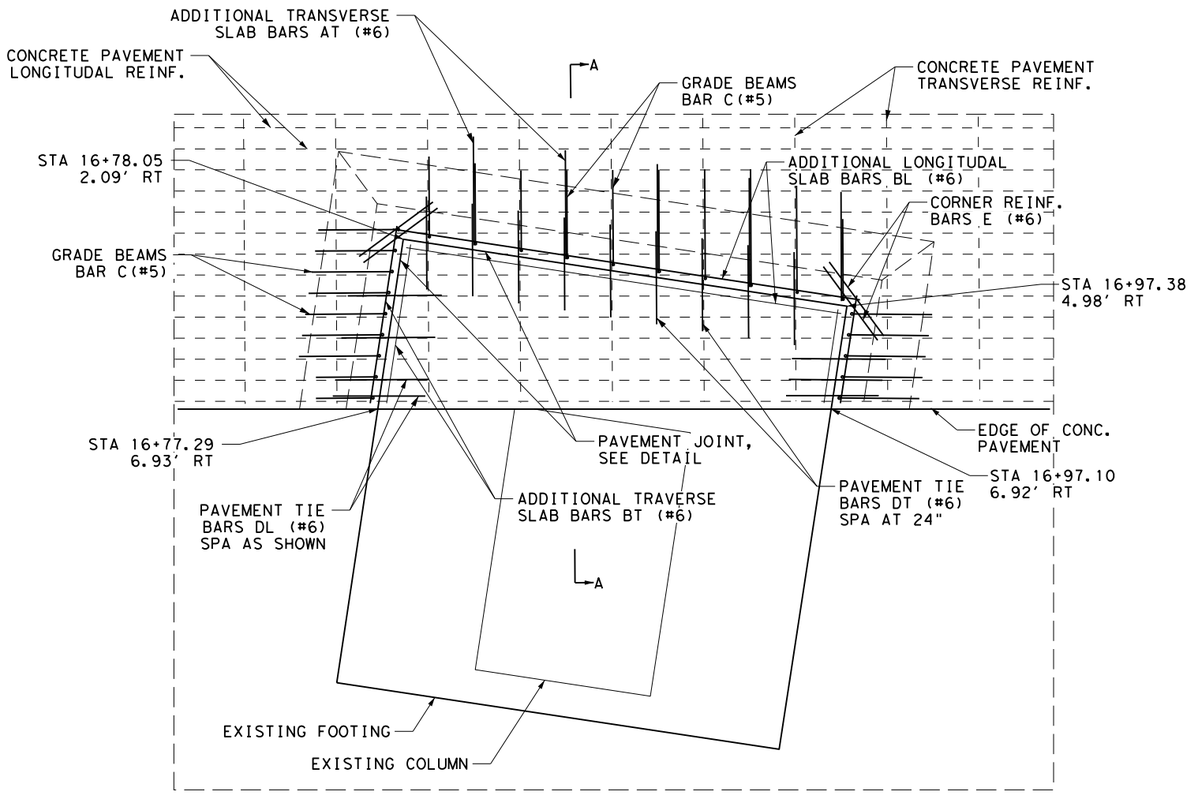
LP 1604

DRIVEWAY DETAILS

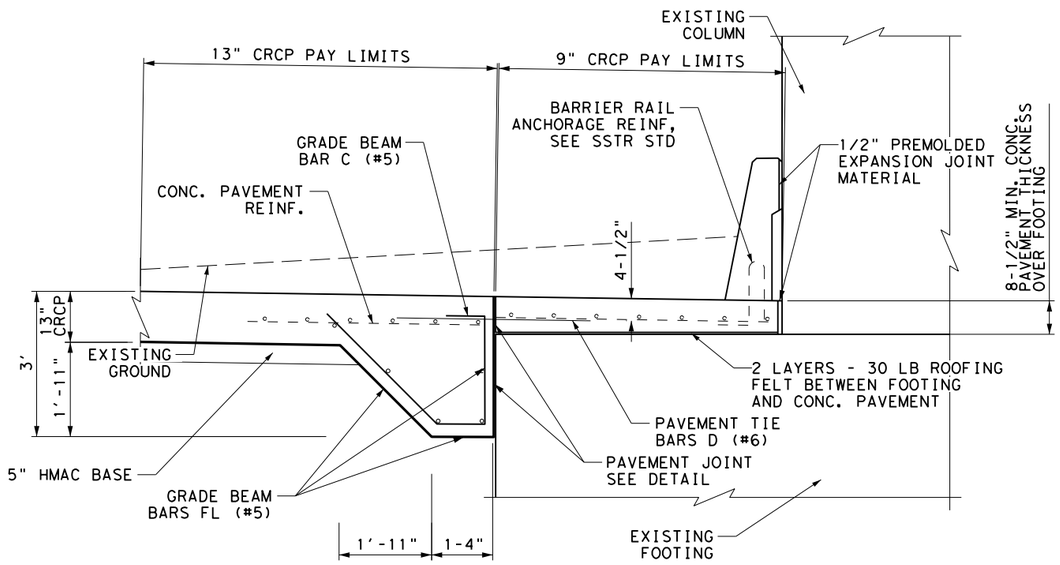
SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	959

6:42:32 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms31767\130_PD_DRWY_DET.dgn



SLAB REINFORCING PLAN



SECTION A-A

NOTES:

1. SEE CRCP(1)-20 FOR ADDITIONAL CONCRETE PAVEMENT DETAILS.
2. DETAILS SHOWN ON THIS SHEET ARE SUBSIDARY TO ITEM 360CRCP.

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation
©2023

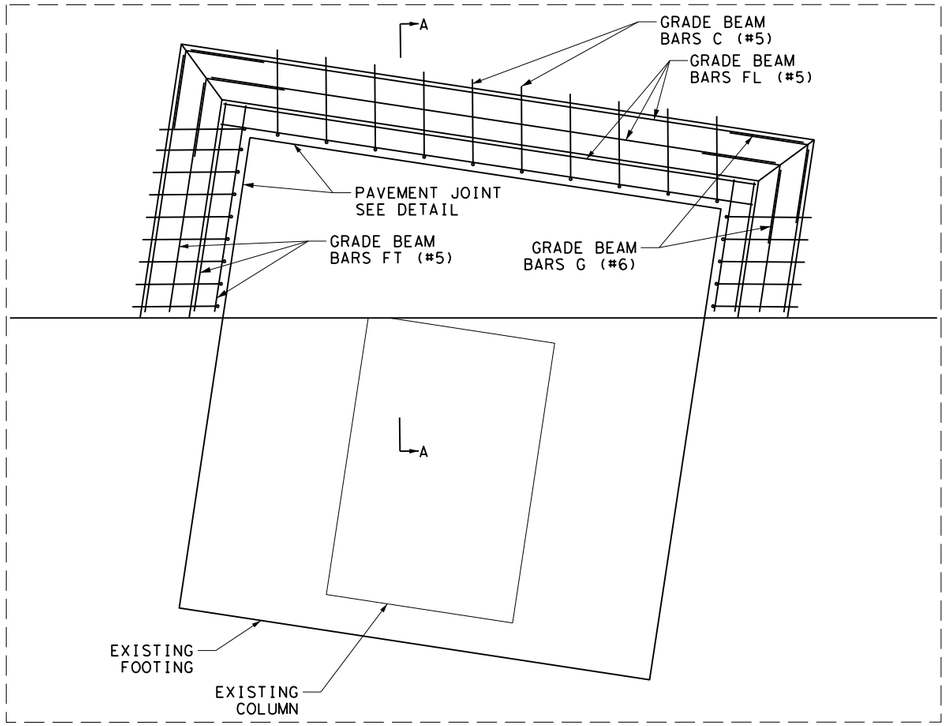
LP 1604

REESAN FOUNDATION DETAILS

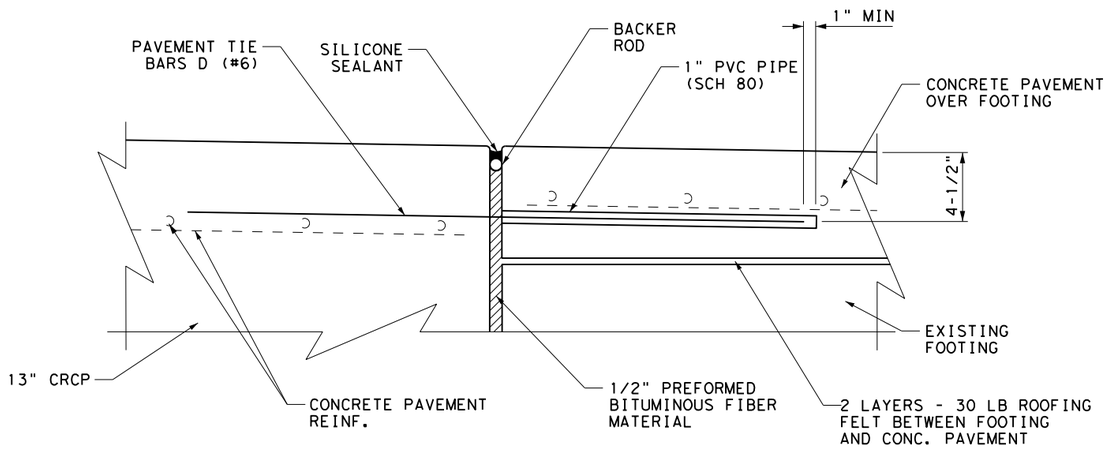
SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	960

7:21:16 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms31767\130_REESANDTL.dgn



GRADE BEAM REINFORCING PLAN



PAVEMENT JOINT DETAIL

NOTES:

1. SEE CRCP(1)-20 FOR ADDITIONAL CONCRETE PAVEMENT DETAILS.
2. DETAILS SHOWN ON THIS SHEET ARE SUBSIDARY TO ITEM 360CRCP.

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED
PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

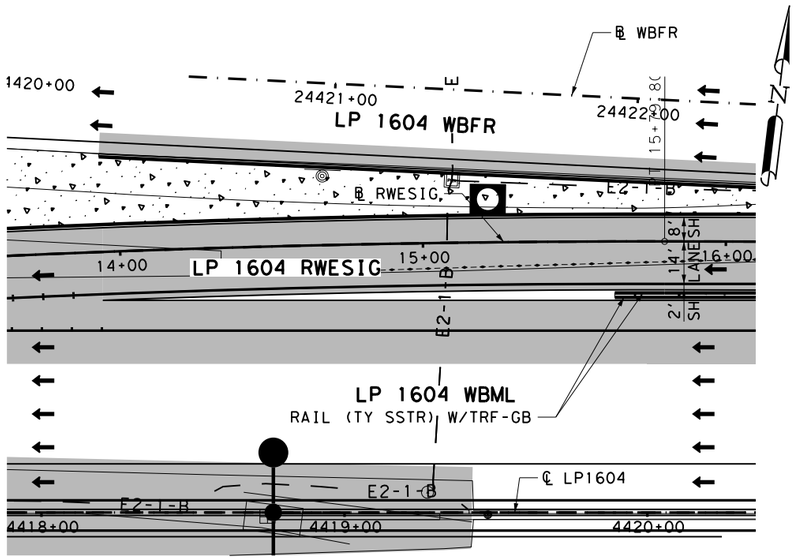
LJA Engineering, Inc.
FRN-F-1386

LP 1604

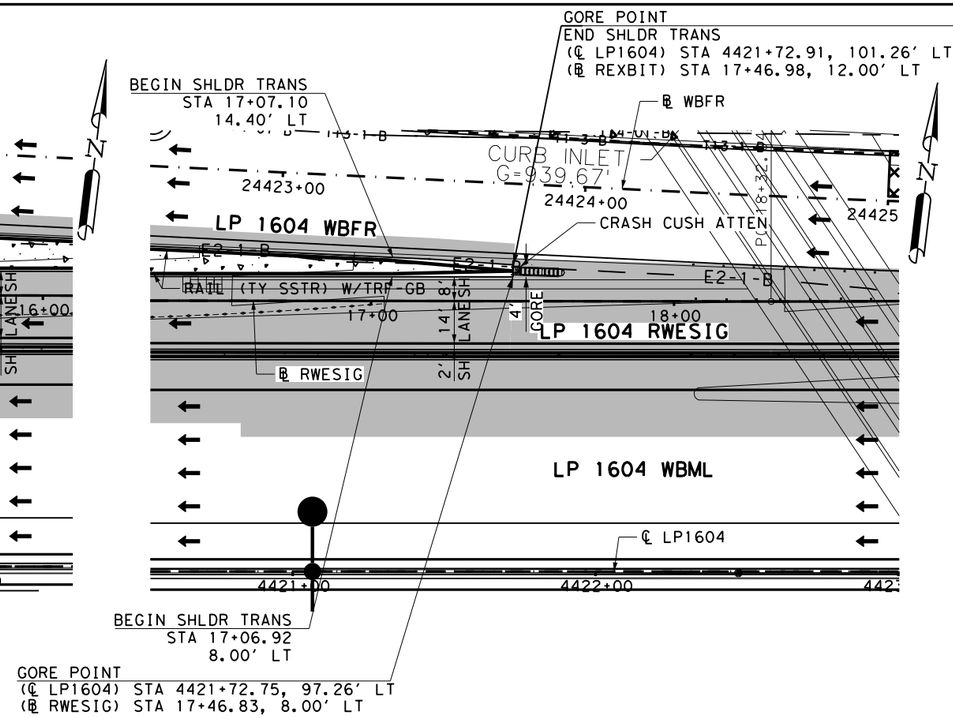
REESAN FOUNDATION DETAILS

SHEET 2 OF 2

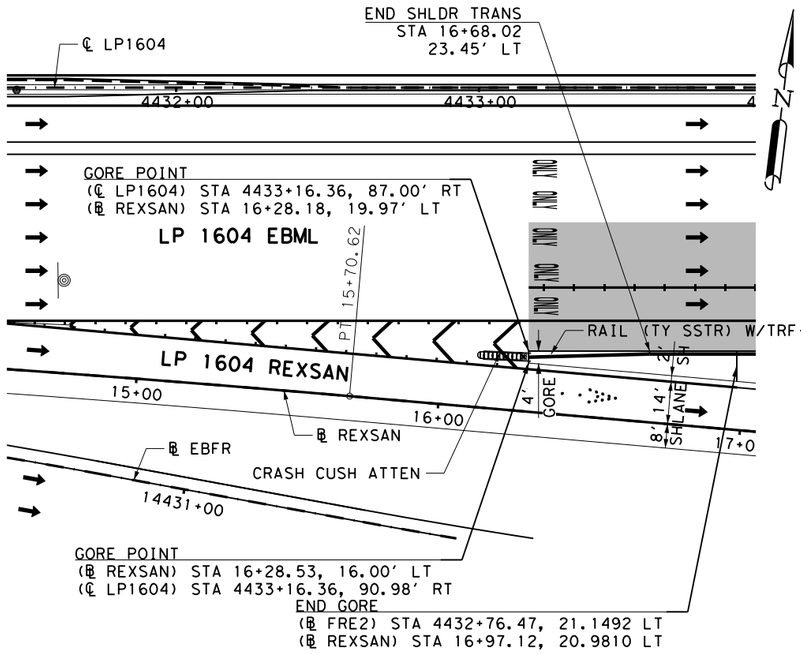
FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	961



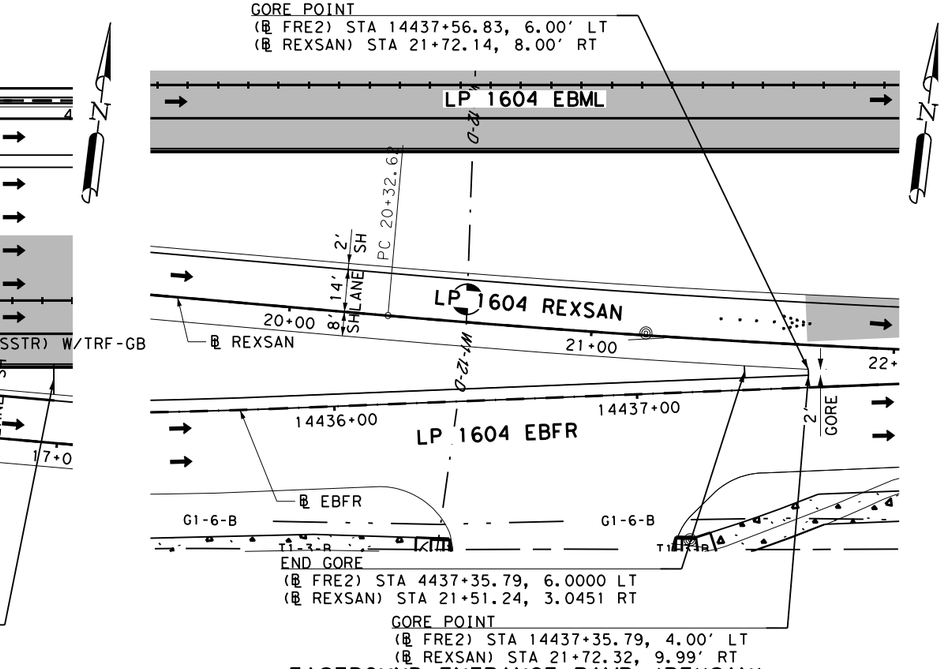
WESTBOUND ENTRANCE RAMP (RWESIG)
DEPARTURE



WESTBOUND ENTRANCE RAMP (RWESIG)
APPROACH



EASTBOUND EXIT RAMP (REXSAN)
APPROACH



EASTBOUND ENTRANCE RAMP (REXSAN)
DEPARTURE

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN-F-1386

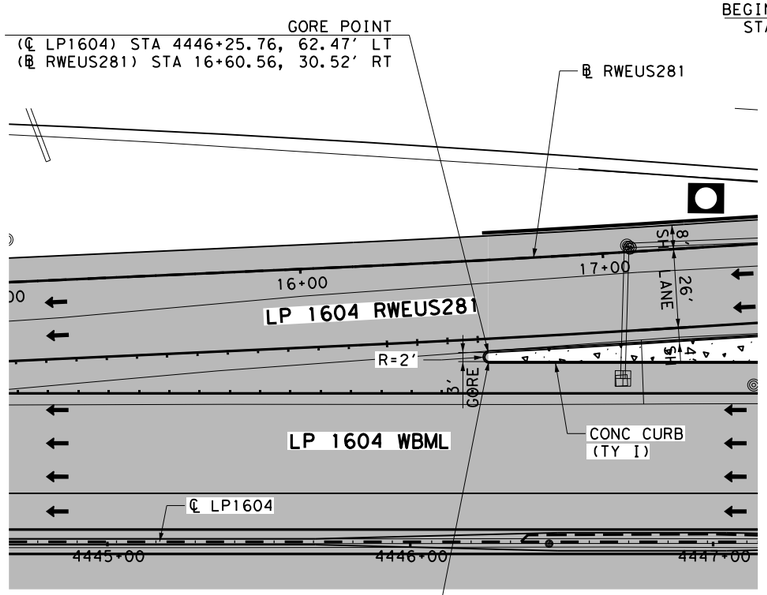
LP 1604

RAMP GORE LAYOUTS

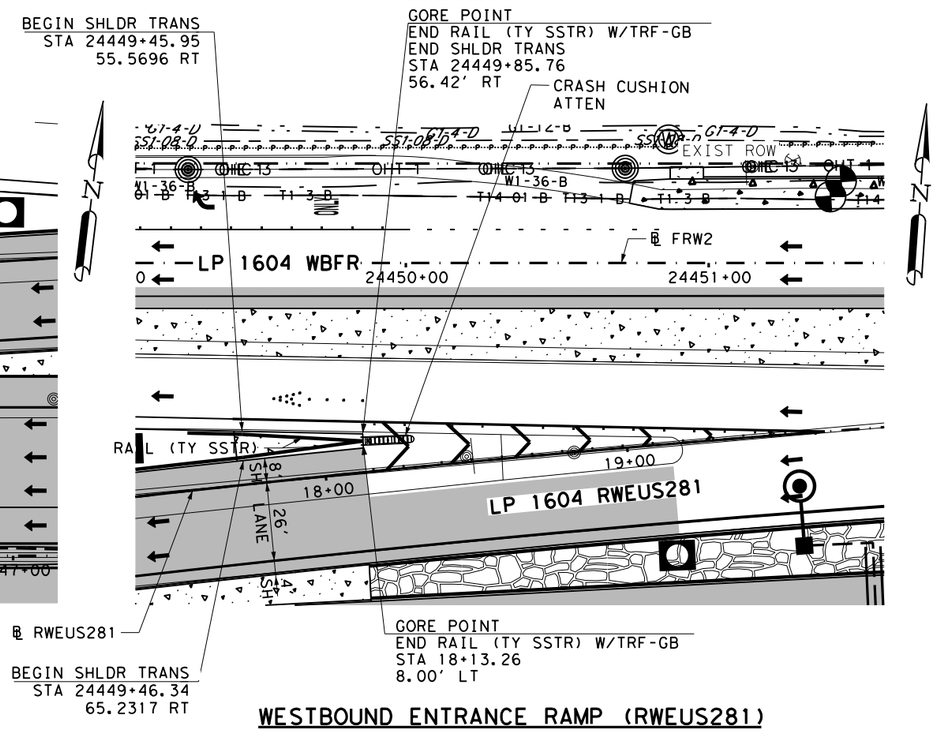
SHEET 1 OF 7

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	962

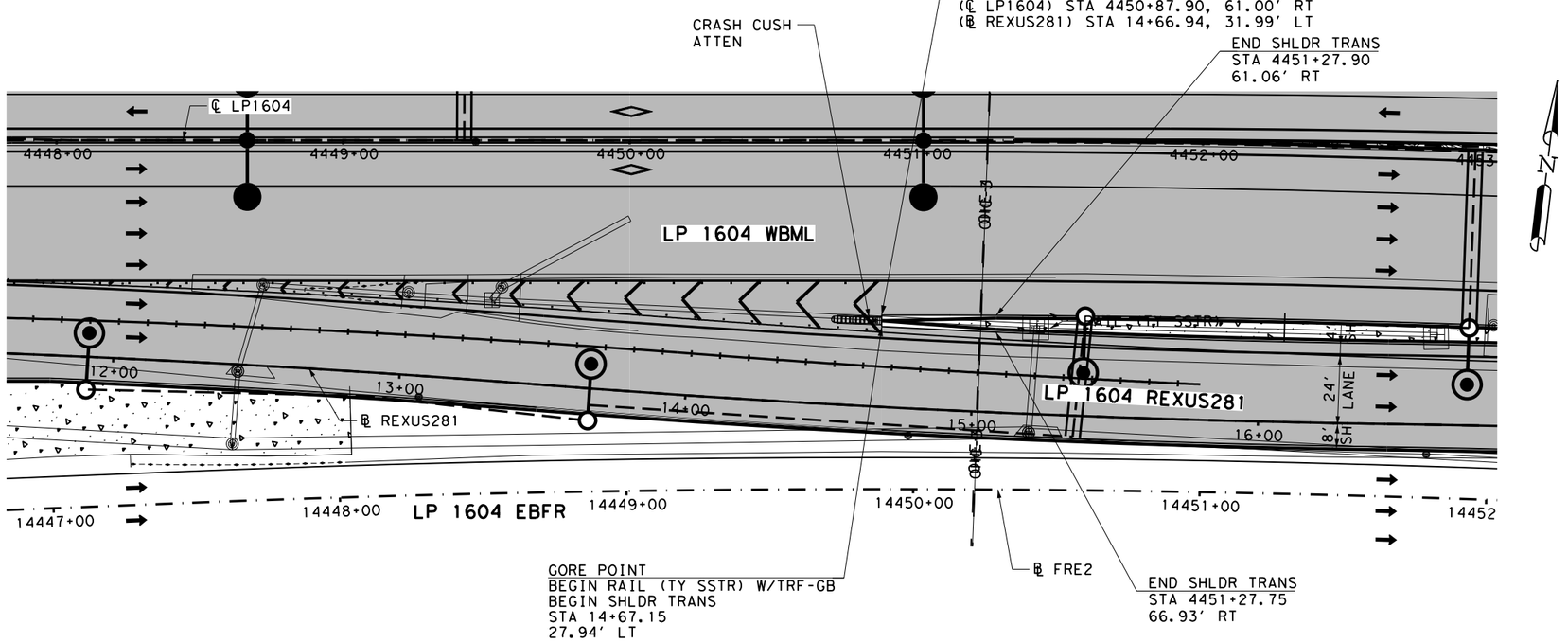
7:22:02 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PD_GORDTL01.dgn



WESTBOUND ENTRANCE RAMP (RWEUS281) DEPARTURE



WESTBOUND ENTRANCE RAMP (RWEUS281) APPROACH



EASTBOUND EXIT RAMP (REXUS281) APPROACH

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN - F-1386

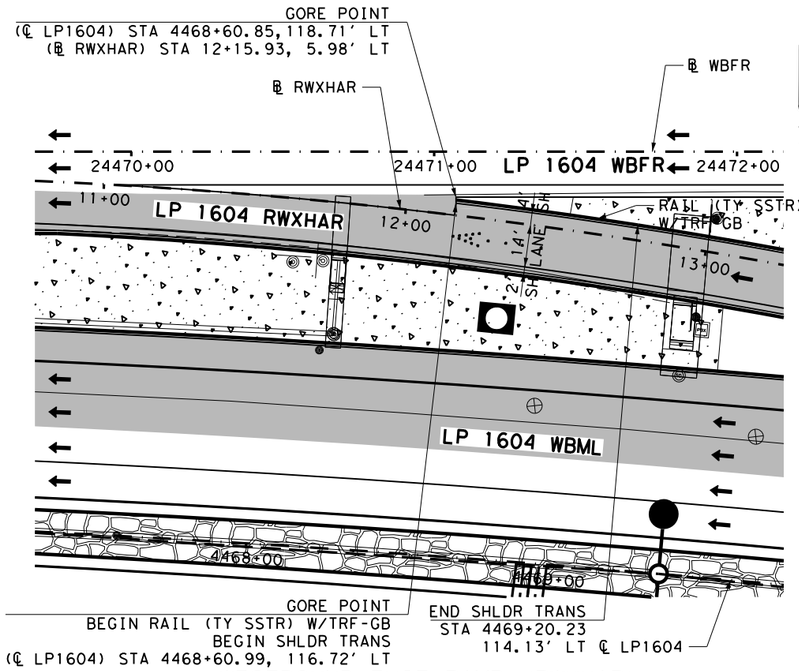
LP 1604

RAMP GORE LAYOUTS

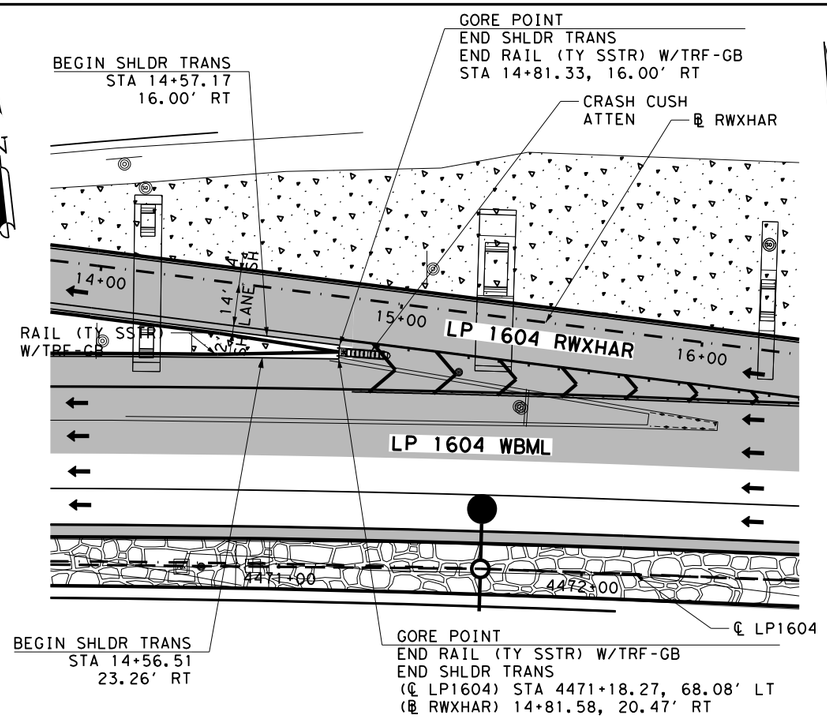
SHEET 2 OF 7

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	963

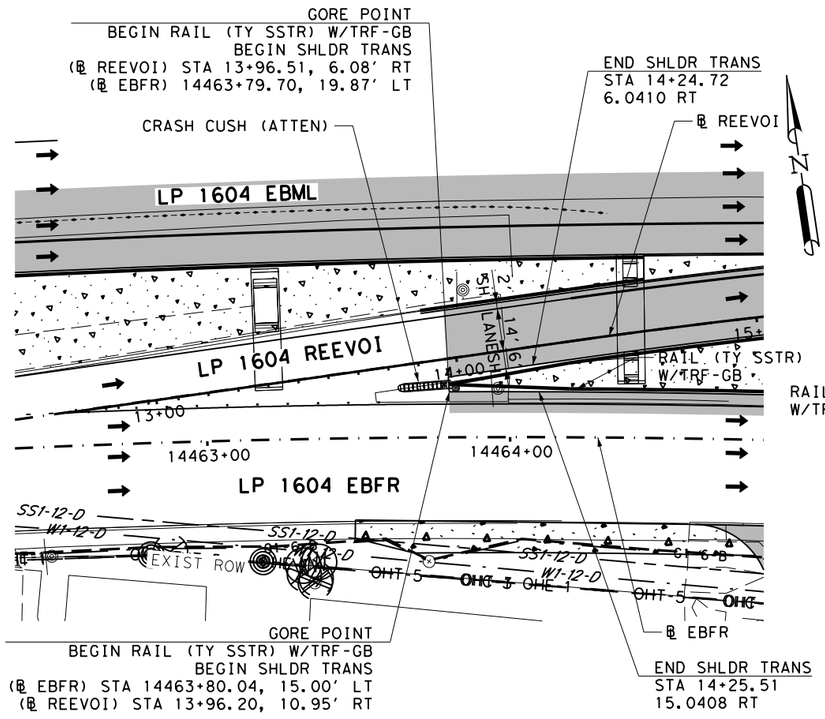
7:22:43 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l30_PD_GORDTL02.dgn



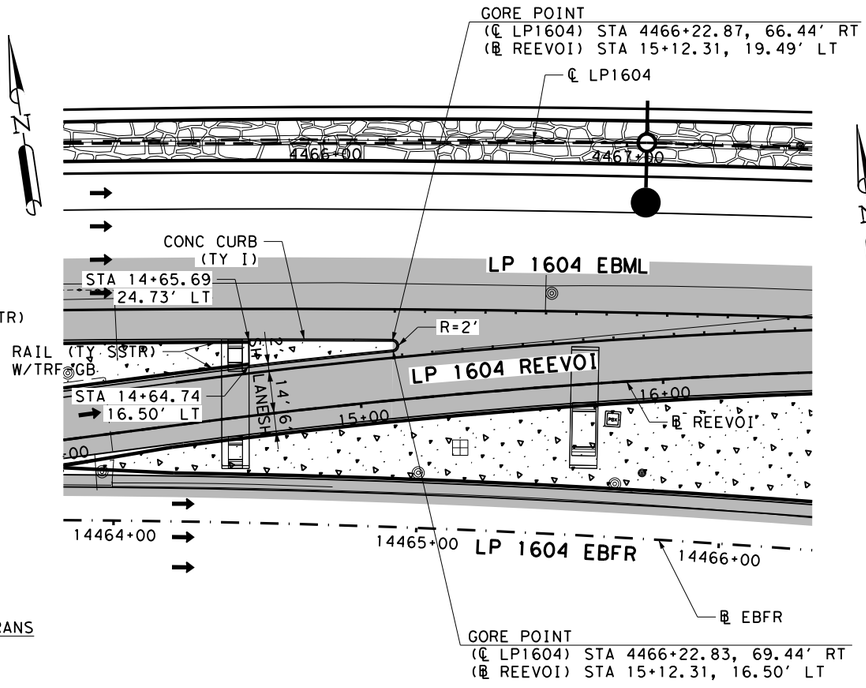
WESTBOUND EXIT RAMP (RWXHAR) APPROACH



WESTBOUND EXIT RAMP (RWXHAR) DEPARTURE



EASTBOUND ENTRANCE RAMP (REEVOI) APPROACH



EASTBOUND ENTRANCE RAMP (REEVOI) DEPARTURE

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN-F-1386

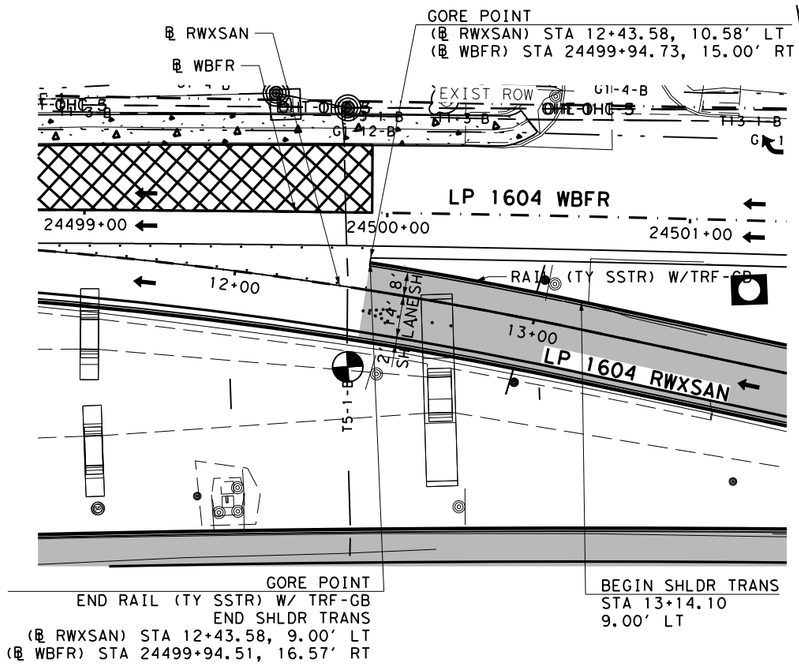
LP 1604

RAMP GORE LAYOUTS

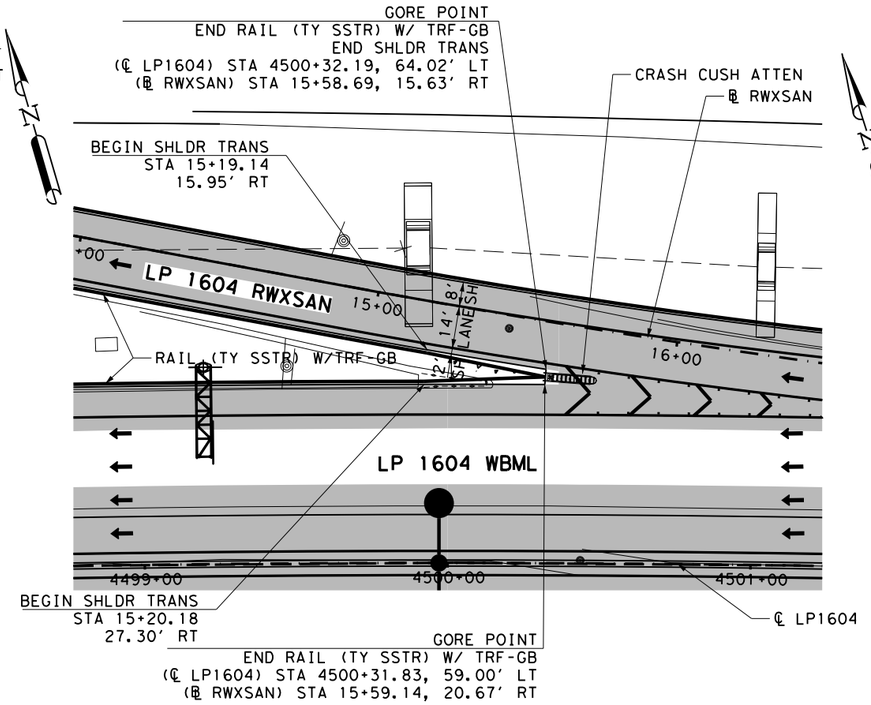
SHEET 3 OF 7

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	964

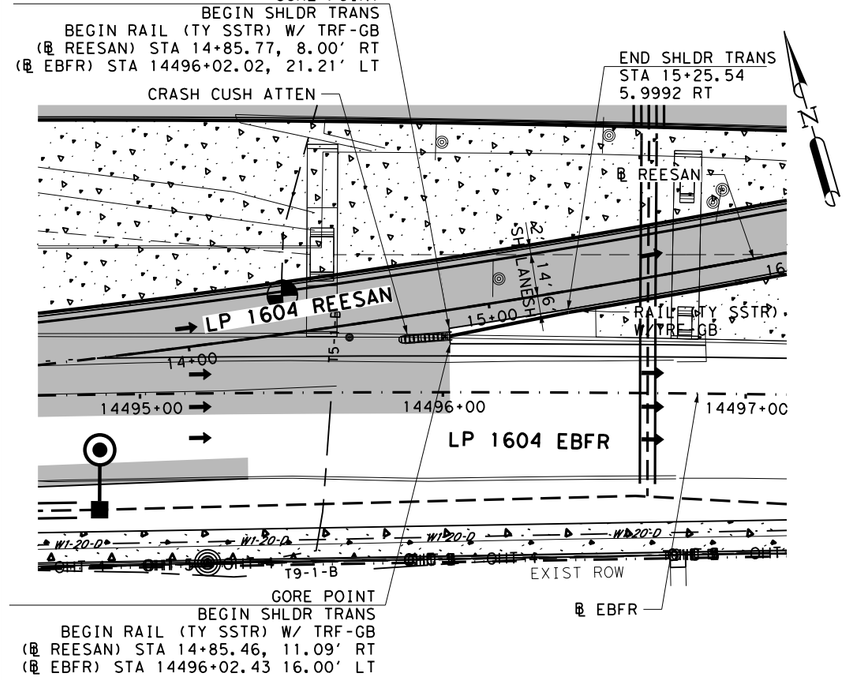
7:23:26 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PD_GORDTL03.dgn



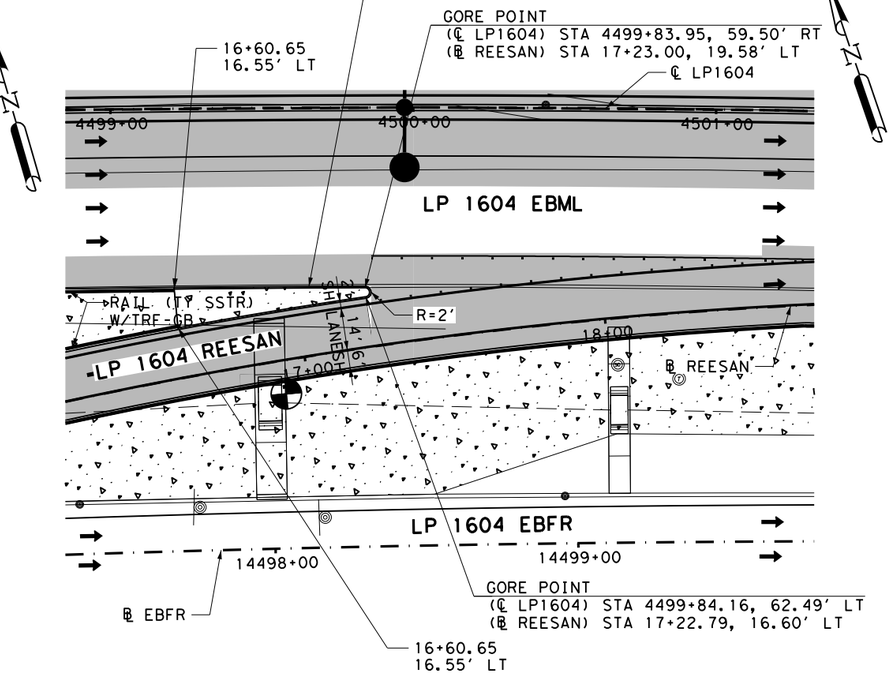
WESTBOUND EXIT RAMP (RWXSAN) APPROACH



WESTBOUND EXIT RAMP (RWXSAN) DEPARTURE



EASTBOUND ENTRANCE RAMP (REESAN) APPROACH



EASTBOUND ENTRANCE RAMP (REESAN) DEPARTURE

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- SI-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN - F-1386

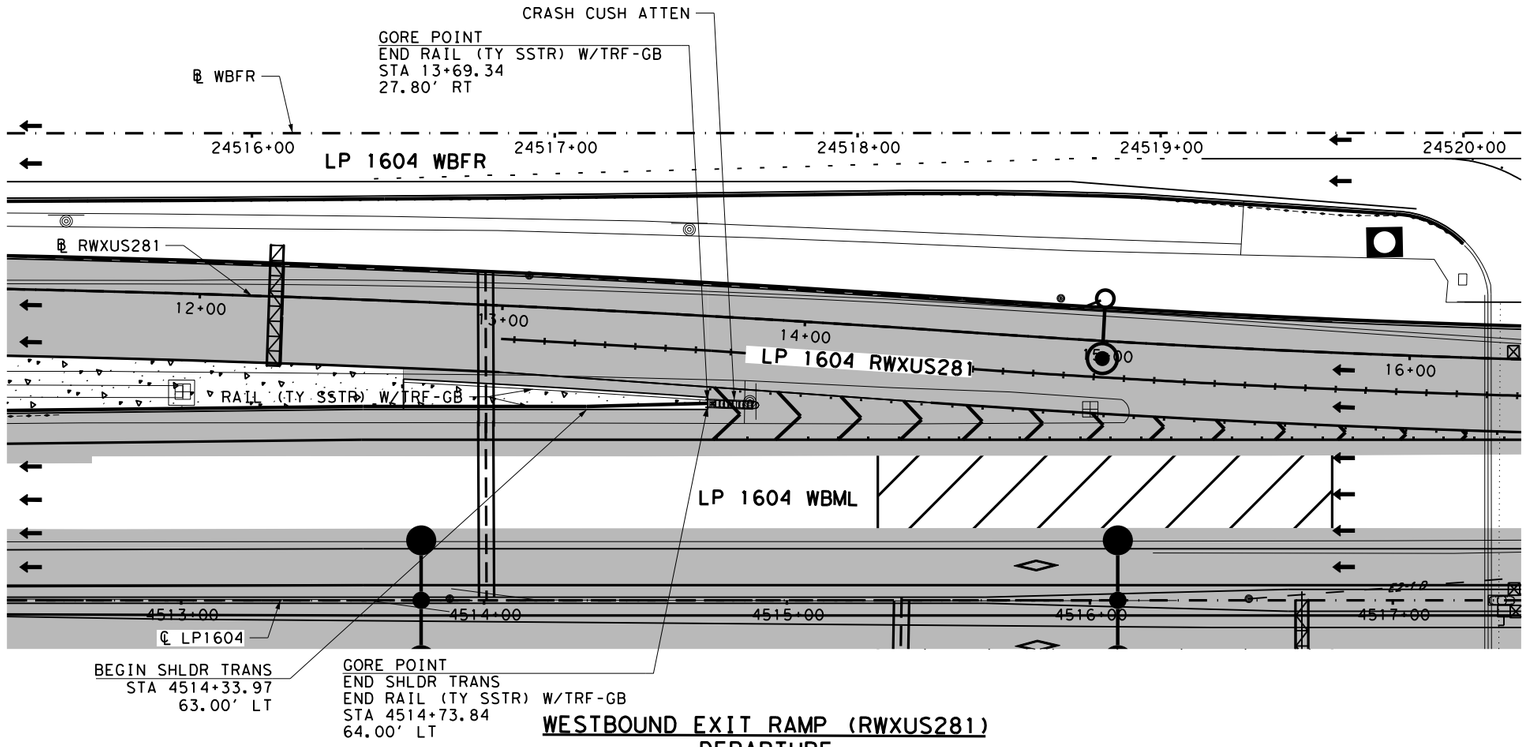
Texas Department of Transportation ©2023

LP 1604

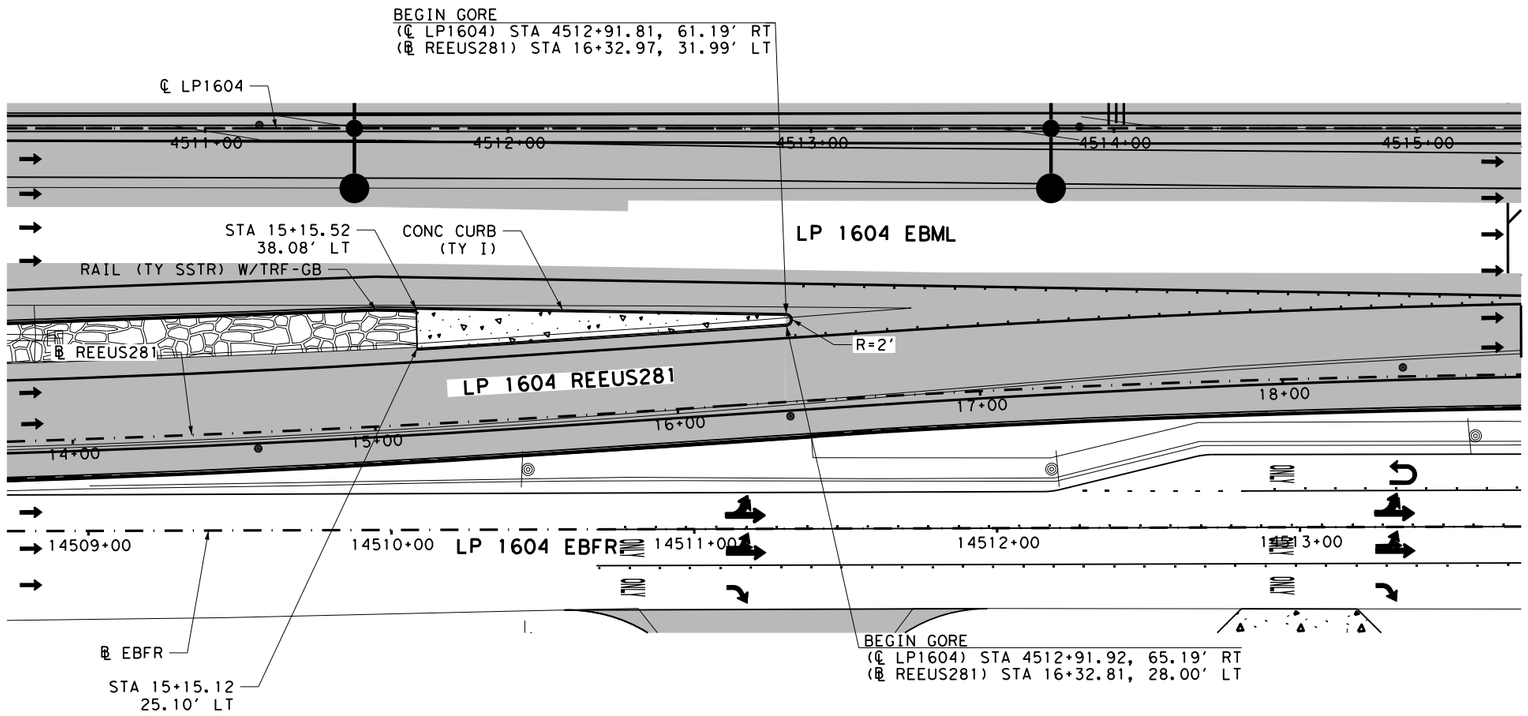
RAMP GORE LAYOUTS

SHEET 4 OF 7

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	965



WESTBOUND EXIT RAMP (RWXUS281) DEPARTURE



EASTBOUND ENTRANCE RAMP (REEUS281) DEPARTURE

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

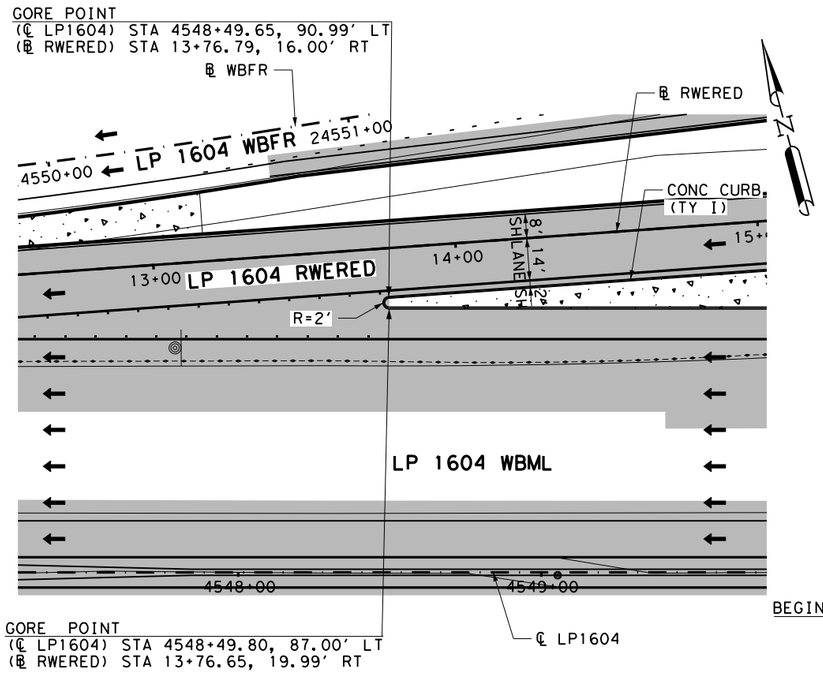
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

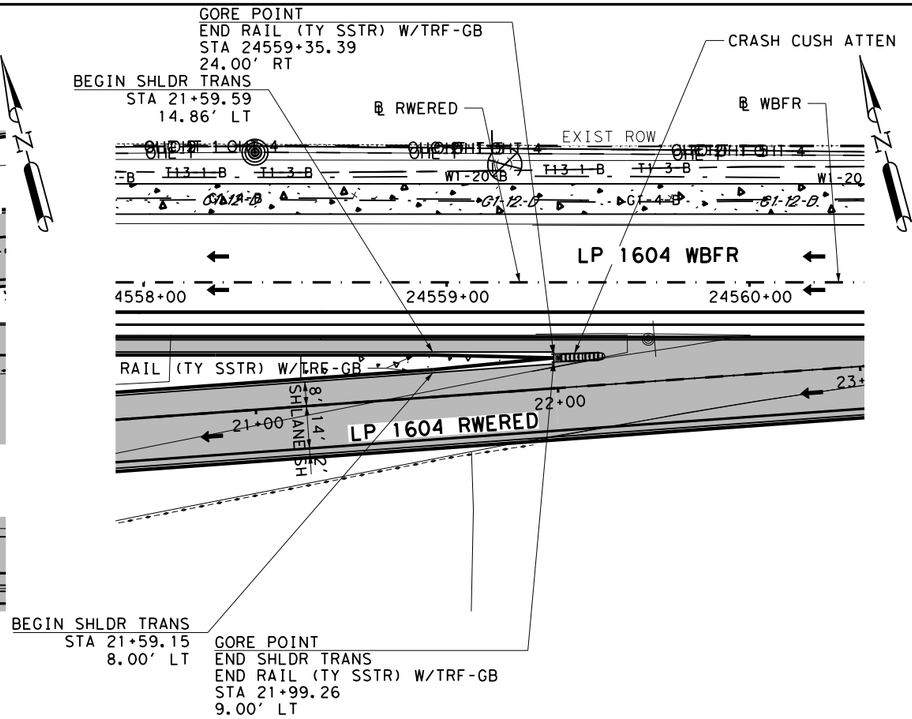
LP 1604
RAMP GORE LAYOUTS

SHEET 5 OF 7

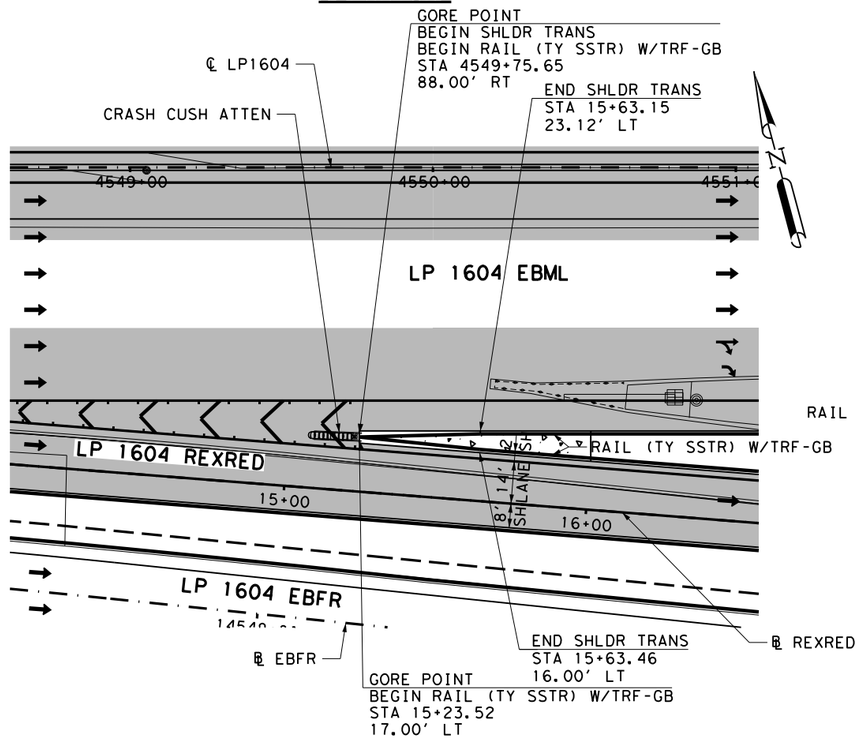
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	966



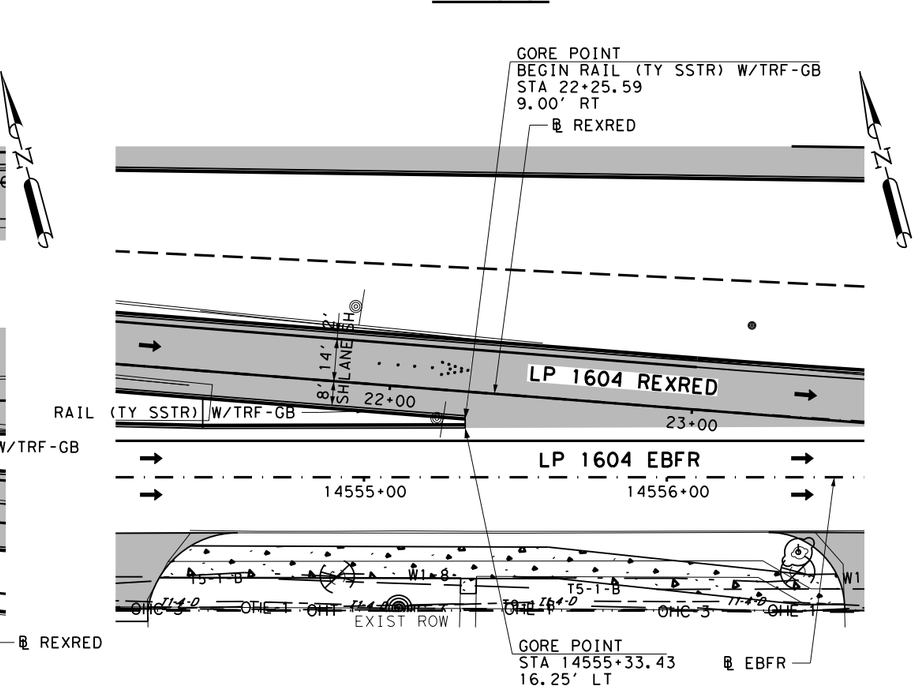
WESTBOUND ENTRACE RAMP (RWERED) DEPARTURE



WESTBOUND ENTRACE RAMP (RWERED) APPROACH



EASTBOUND EXIT RAMP (REXRED) APPROACH



EASTBOUND EXIT RAMP (REXRED) DEPARTURE

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

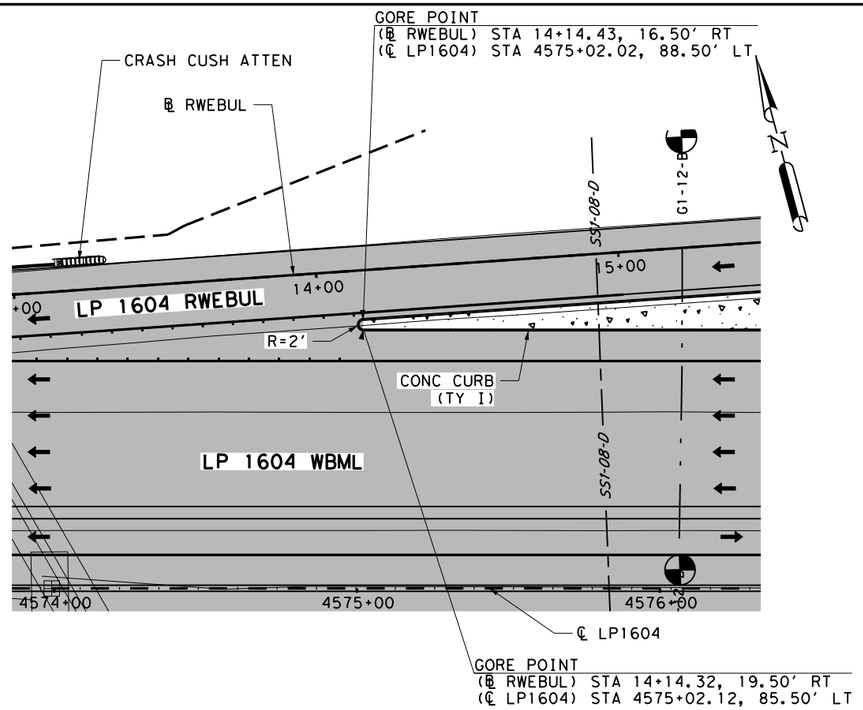
LJA Engineering, Inc.
FRN-F-1386

LP 1604
RAMP GORE LAYOUTS

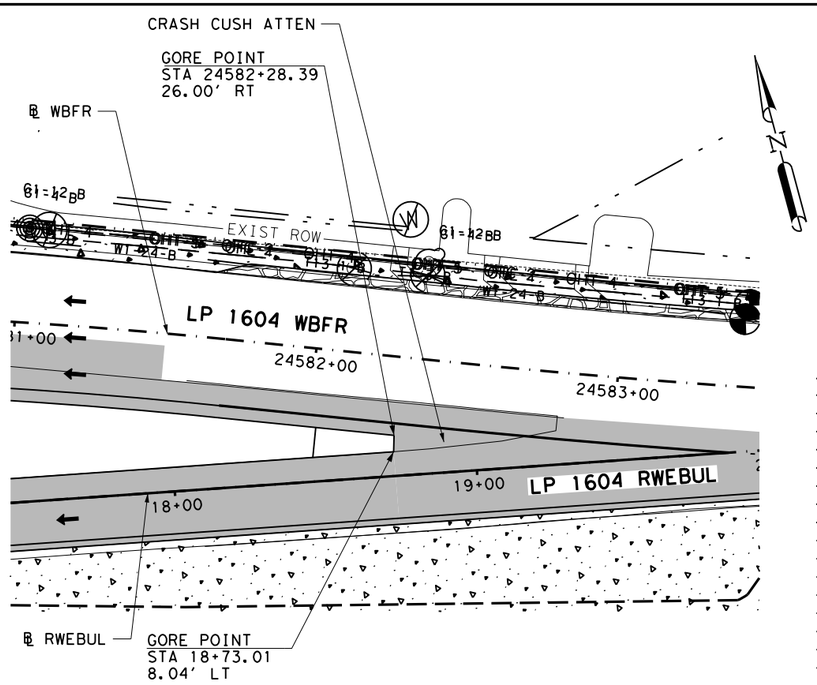
SHEET 6 OF 7

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	967

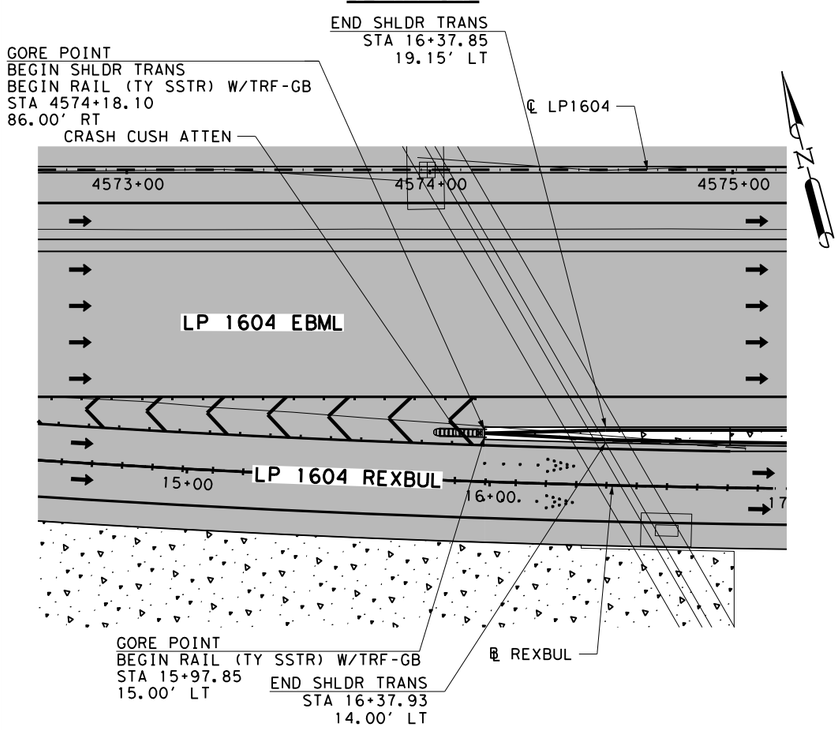
7:25:33 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_PD_GORDTL06.dgn



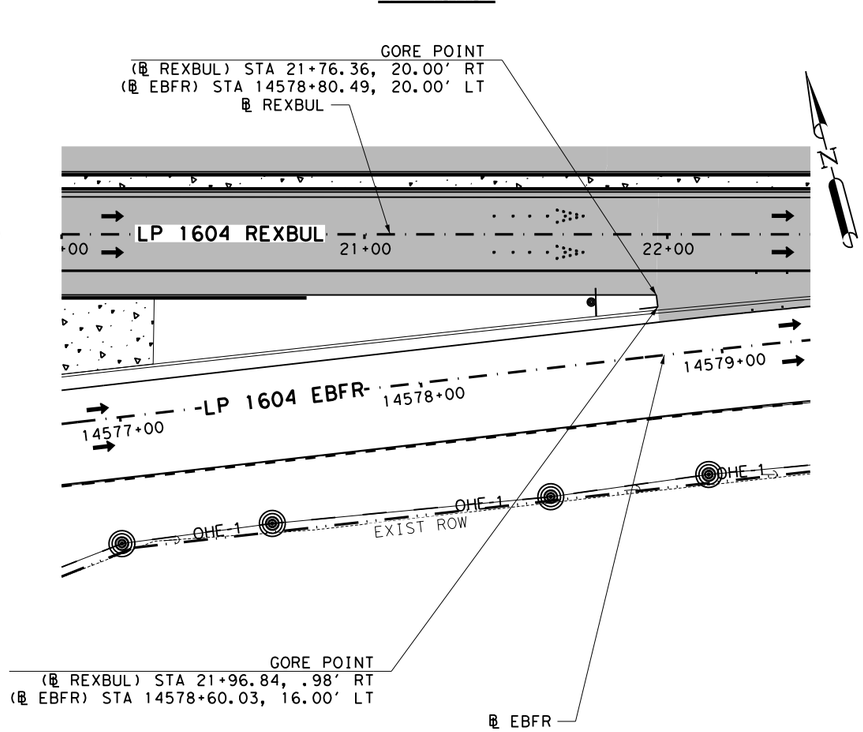
WESTBOUND ENTRACE RAMP (RWEBUL) DEPARTURE



WESTBOUND ENTRACE RAMP (RWEBUL) APPROACH



EASTBOUND EXIT RAMP (REXBUL) APPROACH



EASTBOUND EXIT RAMP (REXBUL) DEPARTURE

LEGEND:

- EXIST ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP CONCRETE
- COLOR TEXTURED CONC (4")
- PROP WIDENING/ RECONSTRUCTION
- WETLANDS
- OHWM
- XXX-X — CURVE ID LABEL
- XXXXX — DRIVEWAY ID
- TEST HOLE LOCATION
- SURVEYED ENVRNMNTL SENSITIVE FEATURE
- T1-XX — AT&T - D(IN)
- T4-1 — CENTURYLINK
- T5-1 — CHARTER-SPECTRUM
- T7-1 — GRANDE
- T8-1 — CONTERRA
- T9-1 — MCI-VERIZON
- T10-1 — TXDOT TRANSGUIDE
- T11-1 — FIBERLIGHT
- T13-1 — ZAYO
- S1-1-D — TXDOT SIGNALS
- OHT-1 — CHARTER-SPECTRUM
- OHC-3 — AT&T
- OHT-4 — GRANDE
- OHT-5 — CENTURYLINK
- OHT-06 — CONTERRA
- OHT-07 — ZAYO
- OHT-09 — CPS
- OHT-10 — FIBERLIGHT
- OHE-1 — CPS ENERGY
- OHE-2 — CPS ENERGY (TRANSMISSION)
- E1-1 — CPS ENERGY
- E2 — TXDOT
- W1-XX — SAWS WATER-D(IN)
- SS1-XX — SAWS SAN SWR-D(IN)
- G1-XX — CPS ENERGY-D(IN)
- G2-XX — GREY FOREST-D(IN)

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 25' 50'

SCALE: 1"=50'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604
RAMP GORE LAYOUTS

SHEET 7 OF 7

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	968

7:26:15 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PD_GORDTL07.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
1	FRE2	14403+77.54	88.70	0.00	SDWK
2	FRE2	14403+84.40	88.63	0.00	SDWK
3	FRE2	14403+77.42	77.46	0.00	SDWK
4	FRE2	14403+87.97	74.37	0.00	SDWK
5	FRE2	14403+89.47	68.87	0.00	SDWK
6	FRE2	14403+80.02	65.58	0.00	SDWK
7	FRE2	14403+95.15	58.08	0.00	SDWK
8	FRE2	14403+87.09	52.15	0.00	SDWK
9	FRE2	14403+98.09	54.53	0.00	SDWK
10	FRE2	14403+90.75	47.73	0.00	SDWK
11	FRE2	14404+07.61	46.93	0.00	SDWK
12	FRE2	14404+02.61	38.27	0.00	SDWK
13	FRE2	14404+19.75	42.31	0.00	SDWK
14	FRE2	14404+18.65	32.33	0.00	SDWK
15	FRE2	14404+28.09	32.09	0.00	SDWK
16	FRE2	14404+48.27	41.57	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
17	FRE2	14404+28.27	-4.23	0.00	EOP
18	FRE2	14404+03.39	-4.21	0.00	EOP
19	FRE2	14403+98.39	-4.22	0.00	EOP
20	FRE2	14403+93.31	-5.33	0.00	EOP
21	FRE2	14403+89.07	-7.98	0.00	EOP
22	FRE2	14403+84.06	-18.30	0.00	EOP
23	FRE2	14403+97.46	-16.62	0.00	SDWK
24	FRE2	14403+92.65	-16.31	0.00	SDWK
25	FRE2	14403+21.64	-51.23	0.00	EOP
26	FRE2	14403+23.14	-27.42	0.00	EOP
27	FRE2	14403+22.38	-18.96	0.00	EOP
28	FRE2	14403+18.68	-15.61	0.00	EOP
29	FRE2	14403+14.48	-18.90	0.00	SDWK
30	FRE2	14403+14.48	-23.90	0.00	SDWK

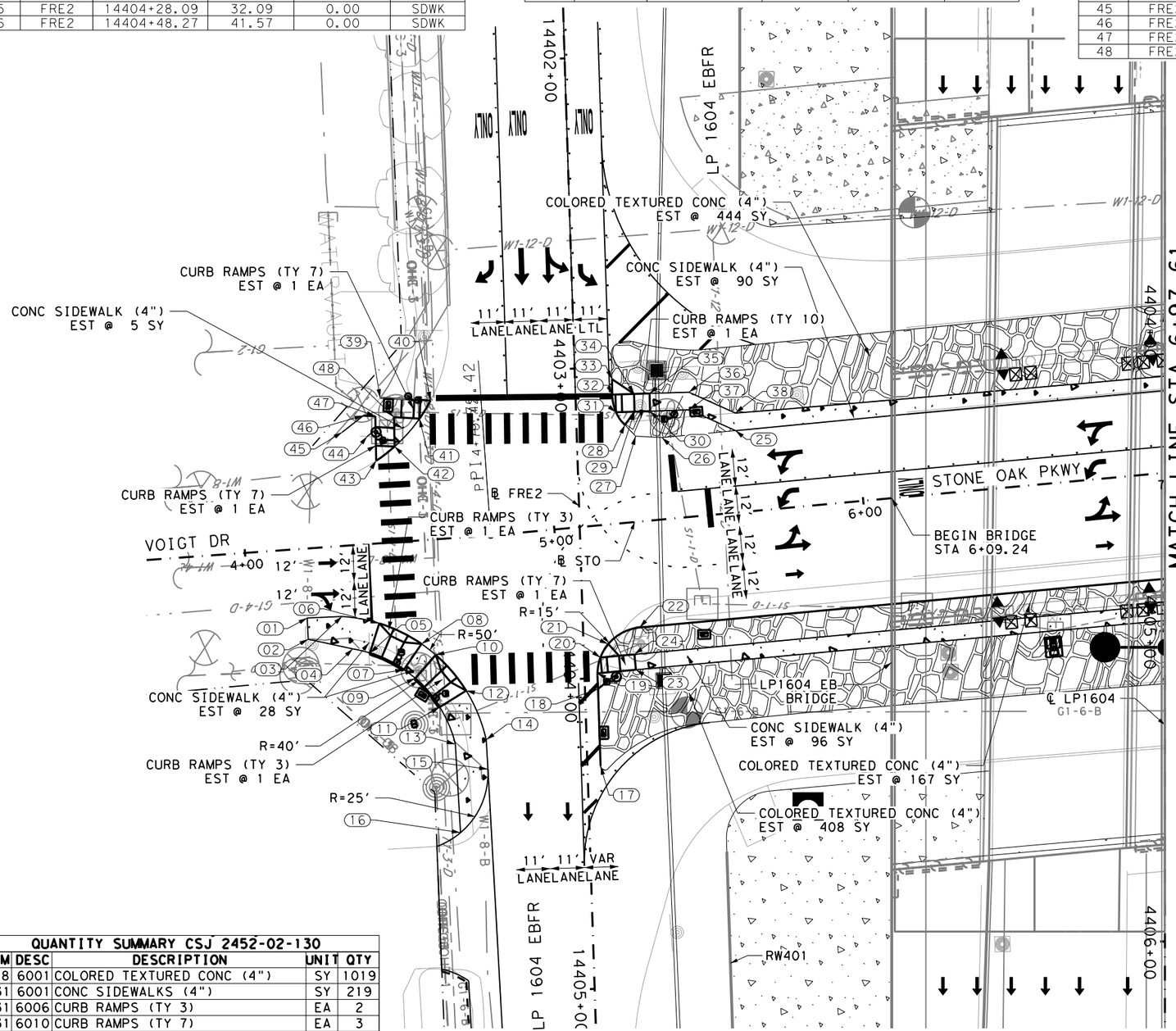
POINT	ALIGN	STA	OFF.	ELEV.	DESC
31	FRE2	14403+14.48	-12.90	0.00	EOP
32	FRE2	14403+08.78	-11.89	0.00	EOP
33	FRE2	14403+03.78	-11.93	0.00	EOP
34	FRE2	14403+08.78	-18.90	0.00	SDWK
35	FRE2	14403+08.78	-23.90	0.00	SDWK
36	FRE2	14403+08.78	-36.56	0.00	SDWK
37	FRE2	14403+14.48	-36.56	0.00	SDWK
38	FRE2	14403+15.99	-51.35	0.00	SDWK
39	FRE2	14403+07.39	62.93	0.00	SDWK
40	FRE2	14403+08.78	46.73	0.00	SDWK
41	FRE2	14403+14.48	50.45	0.00	SDWK
42	FRE2	14403+23.25	58.80	0.00	SDWK
43	FRE2	14403+27.62	64.86	0.00	SDWK
44	FRE2	14403+19.68	67.52	0.00	SDWK
45	FRE2	14403+18.07	75.50	0.00	SDWK
46	FRE2	14403+12.94	68.54	0.00	SDWK
47	FRE2	14403+13.27	64.66	0.00	SDWK
48	FRE2	14403+13.78	58.66	0.00	SDWK

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	1019
0531	6001	CONC SIDEWALKS (4")	SY	219
0531	6006	CURB RAMPS (TY 3)	EA	2
0531	6010	CURB RAMPS (TY 7)	EA	3
0531	6013	CURB RAMPS (TY 10)	EA	1

DESIGN

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN-F-1386

LP 1604

STONE OAK PKWY INTERSECTION DETAILS

SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	969

8:46:09 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PD_INT01.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
49	FRW2	24406+94.62	69.44	0.00	SDWK
50	FRW2	24406+89.63	69.96	0.00	SDWK
51	FRW2	24406+78.85	25.30	0.00	EOP
52	FRW2	24406+84.85	34.64	0.00	SDWK
53	FRW2	24406+83.27	22.96	0.00	SDWK
54	FRW2	24406+88.34	23.07	0.00	SDWK
55	FRW2	24406+93.34	23.18	0.00	SDWK
56	FRW2	24406+19.08	50.06	0.00	SDWK
57	FRW2	24406+14.75	50.80	0.00	SDWK
58	FRW2	24406+11.98	46.17	0.00	SDWK
59	FRW2	24406+13.80	41.39	0.00	SDWK
60	FRW2	24405+93.46	23.35	0.00	SDWK
61	FRW2	24405+98.15	21.60	0.00	SDWK
62	FRW2	24405+93.25	22.10	0.00	SDWK
63	FRW2	24405+92.17	11.30	0.00	SDWK
64	FRW2	24405+97.15	11.65	0.00	SDWK
65	FRW2	24405+83.16	-18.64	0.00	SDWK
66	FRW2	24405+82.49	-25.37	0.00	SDWK
67	FRW2	24405+99.40	-25.78	0.00	SDWK
68	FRW2	24406+05.79	-27.09	0.00	SDWK
69	FRW2	24406+08.44	-21.98	0.00	SDWK
70	FRW2	24406+00.08	-19.05	0.00	SDWK
71	FRW2	24407+04.48	-25.69	0.00	EOP

POINT	ALIGN	STA	OFF.	ELEV.	DESC
72	FRW2	24407+03.15	-20.00	0.00	EOP
73	FRW2	24406+79.09	-20.00	0.00	EOP
74	FRW2	24406+74.11	-24.63	0.00	EOP
75	FRW2	24406+72.84	-41.52	0.00	EOP
76	FRW2	24406+77.86	-43.96	0.00	EOP
77	FRW2	24406+84.61	-38.22	971.04	EOP
78	FRW2	24406+81.44	-34.17	971.47	SDWK
79	FRW2	24406+88.60	-35.22	971.16	EOP
80	FRW2	24406+85.37	-31.09	971.60	SDWK
81	FRW2	24406+84.20	-20.00	970.69	EOP
82	FRW2	24406+84.18	-27.16	971.28	SDWK
83	FRW2	24406+79.20	-20.00	970.60	EOP
84	FRW2	24406+79.18	-27.14	971.65	SDWK
85	FRW2	24406+73.92	-27.13	971.21	EOP
86	FRW2	24406+79.17	-32.14	971.71	EOP
87	FRW2	24406+73.55	-32.13	971.24	SDWK

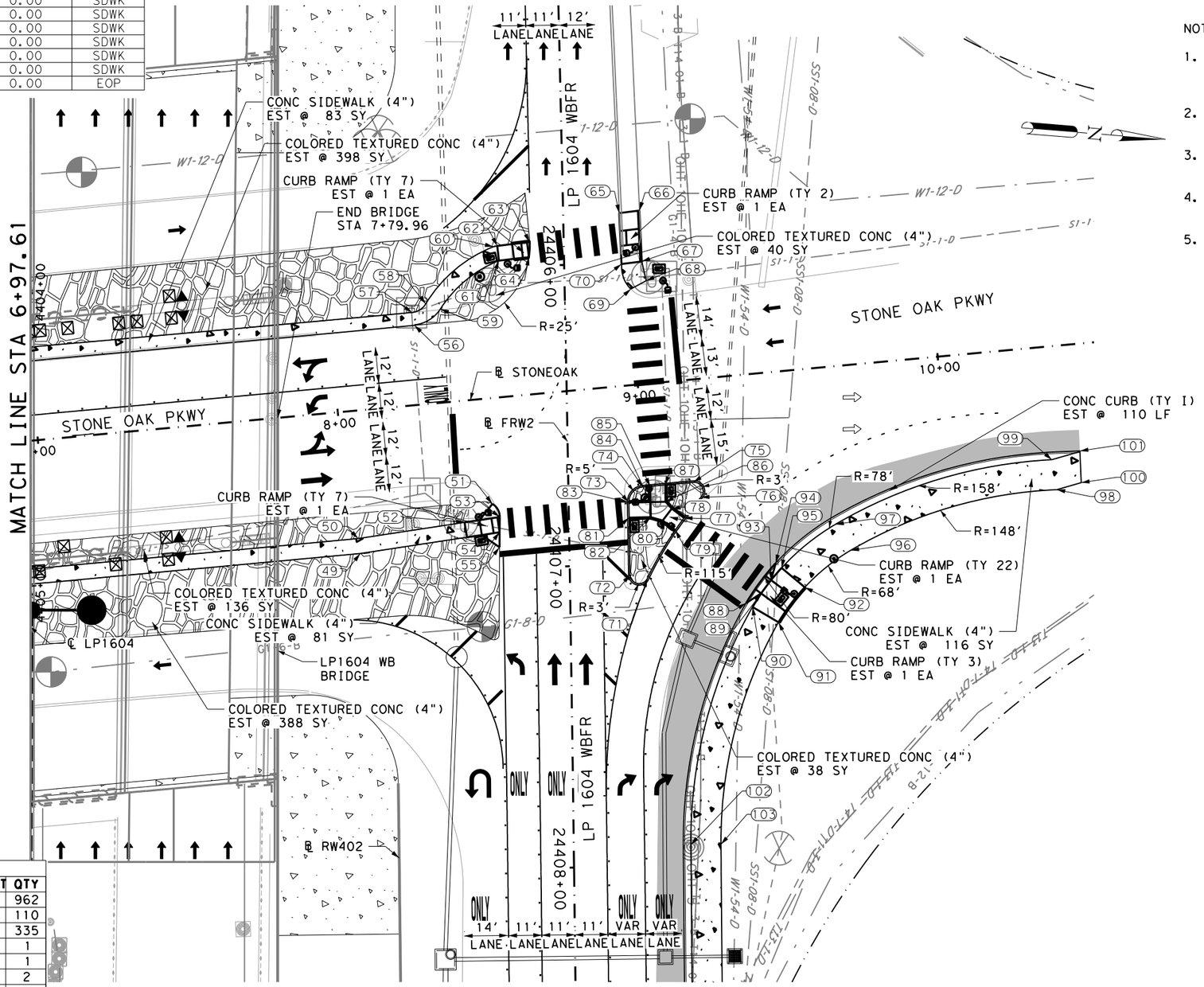
POINT	ALIGN	STA	OFF.	ELEV.	DESC
88	FRW2	24407+13.17	-58.34	0.00	SDWK
89	FRW2	24407+10.03	-63.41	0.00	SDWK
90	FRW2	24407+14.46	-60.44	0.00	SDWK
91	FRW2	24407+19.67	-68.97	0.00	SDWK
92	FRW2	24407+08.23	-77.86	0.00	SDWK
93	FRW2	24407+05.69	-66.74	0.00	SDWK
94	FRW2	24407+00.05	-68.41	0.00	SDWK
95	FRW2	24407+01.69	-70.30	0.00	SDWK
96	FRW2	24406+96.27	-93.32	0.00	SDWK
97	FRW2	24406+87.60	-88.41	0.00	SDWK
98	FRW2	24406+77.38	-162.07	0.00	SDWK
99	FRW2	24406+67.48	-160.60	0.00	SDWK
100	FRW2	24406+75.19	-170.21	0.00	SDWK
101	FRW2	24406+64.77	-169.96	0.00	EOP
102	FRW2	24407+92.86	-38.87	0.00	SDWK
103	FRW2	24407+92.91	-48.87	0.00	SDWK

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.



QUANTITY SUMMARY CSJ 2452-02-130

ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	962
0529	6001	CONC CURB (TY I)	LF	110
0531	6001	CONC SIDEWALKS (4")	SY	335
0531	6005	CURB RAMPS (TY 2)	EA	1
0531	6006	CURB RAMPS (TY 3)	EA	1
0531	6010	CURB RAMPS (TY 7)	EA	2
0531	6017	CURB RAMPS (TY 22)	EA	1

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc. FRN - F-1386

LP 1604

STONE OAK PKWY INTERSECTION DETAILS

SHEET 2 OF 2

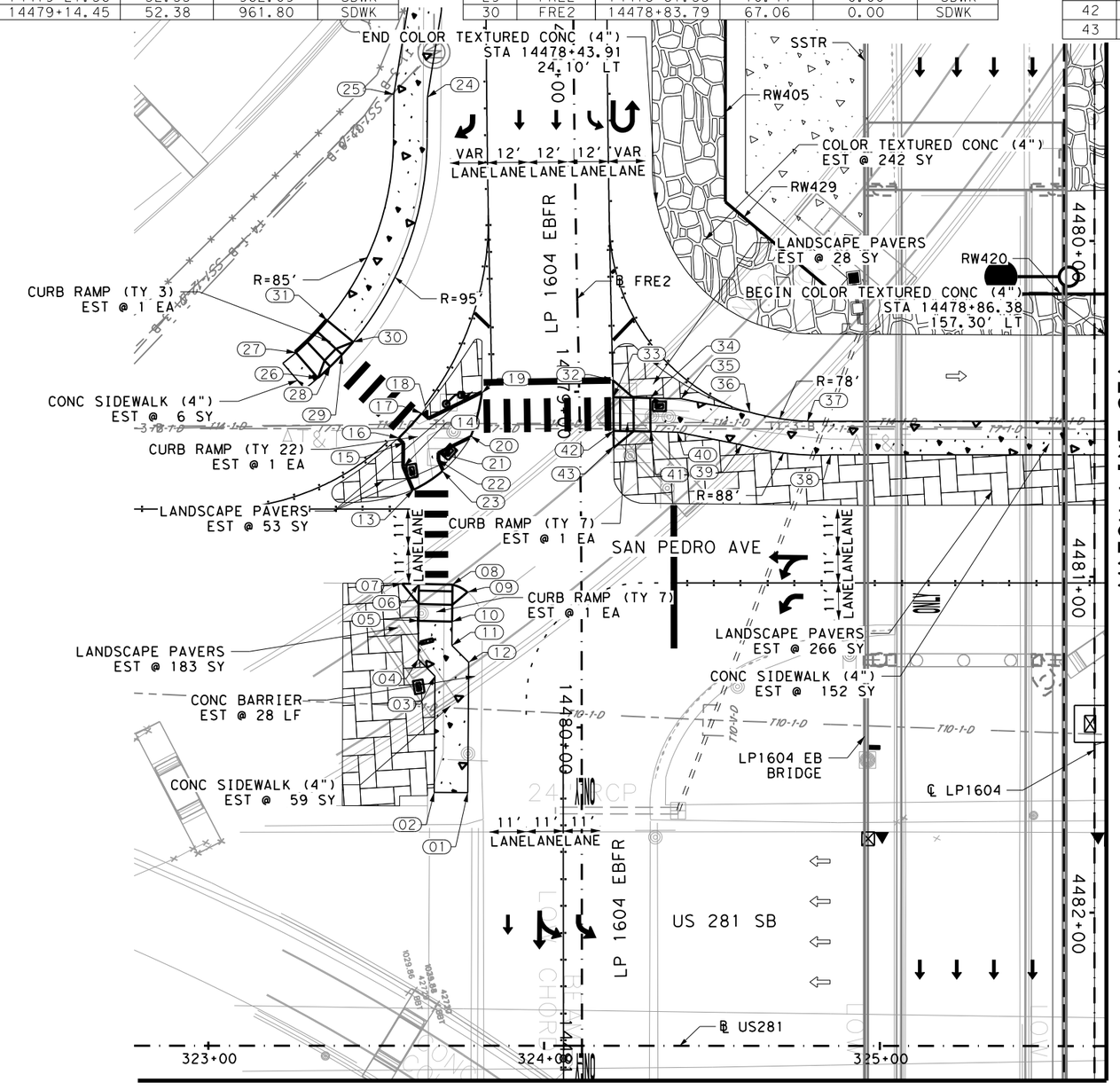
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	970

9:03:41 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_PD_INT02.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
1	FRE2	14480+19.35	33.93	0.00	SDWK
2	FRE2	14480+19.29	43.93	0.00	SDWK
3	FRE2	14479+84.66	43.67	0.00	SDWK
4	FRE2	14479+79.62	48.64	0.00	SDWK
5	FRE2	14479+68.10	48.54	0.00	SDWK
6	FRE2	14479+56.99	48.43	0.00	SDWK
7	FRE2	14479+56.89	53.43	0.00	SDWK
8	FRE2	14479+57.27	38.43	0.00	SDWK
9	FRE2	14479+59.51	33.95	0.00	SDWK
10	FRE2	14479+68.37	38.55	0.00	SDWK
11	FRE2	14479+75.53	38.61	0.00	SDWK
12	FRE2	14479+80.59	33.64	0.00	SDWK
13	FRE2	14479+28.60	49.70	961.47	SDWK
14	FRE2	14479+21.56	52.55	962.09	SDWK
15	FRE2	14479+14.45	52.38	961.80	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
16	FRE2	14479+12.97	53.91	961.62	SDWK
17	FRE2	14479+05.66	47.01	961.68	SDWK
18	FRE2	14479+07.57	45.03	961.91	SDWK
19	FRE2	14478+99.93	29.04	961.81	SDWK
20	FRE2	14479+12.72	32.47	961.78	SDWK
21	FRE2	14479+17.51	42.45	962.70	SDWK
22	FRE2	14479+19.69	42.50	961.89	SDWK
23	FRE2	14479+23.13	41.11	961.59	SDWK
24	FRE2	14478+11.84	43.65	0.00	SDWK
25	FRE2	14478+10.91	53.64	0.00	SDWK
26	FRE2	14478+94.46	77.74	0.00	SDWK
27	FRE2	14478+86.67	84.17	0.00	SDWK
28	FRE2	14478+91.09	74.00	0.00	SDWK
29	FRE2	14478+87.53	70.44	0.00	SDWK
30	FRE2	14478+83.79	67.06	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
31	FRE2	14516+32.99	13.97	0.00	SDWK
32	FRE2	14517+30.01	31.20	963.78	SDWK
33	FRE2	14517+25.92	27.86	964.22	SDWK
34	FRE2	14517+18.47	28.05	963.90	SDWK
35	FRE2	14517+18.10	18.05	963.76	SDWK
36	FRE2	14517+31.38	19.38	964.92	SDWK
37	FRE2	14517+29.40	17.76	964.70	SDWK
38	FRE2	14517+35.18	16.33	965.59	SDWK
39	FRE2	14517+35.13	14.71	965.45	SDWK
40	FRE2	14517+40.14	14.61	963.38	SDWK
41	FRE2	14517+40.26	18.66	963.71	SDWK
42	FRE2	14517+35.34	22.62	963.58	SDWK
43	FRE2	14517+37.31	24.23	963.79	SDWK



LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	242
0528	6004	LANDSCAPE PAVERS	SY	530
0531	6001	CONC SIDEWALKS (4")	SY	217
0531	6010	CURB RAMPS (TY 7)	EA	2
0531	6017	CURB RAMPS (TY 22)	EA	1

DESIGN

R. MATTHEW ESTES 101558 LICENSED PROFESSIONAL ENGINEER — R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ 84722 LICENSED PROFESSIONAL ENGINEER — JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

US 281 INTERSECTION DETAILS

SOUTHWEST CORNER

SHEET 1 OF 4

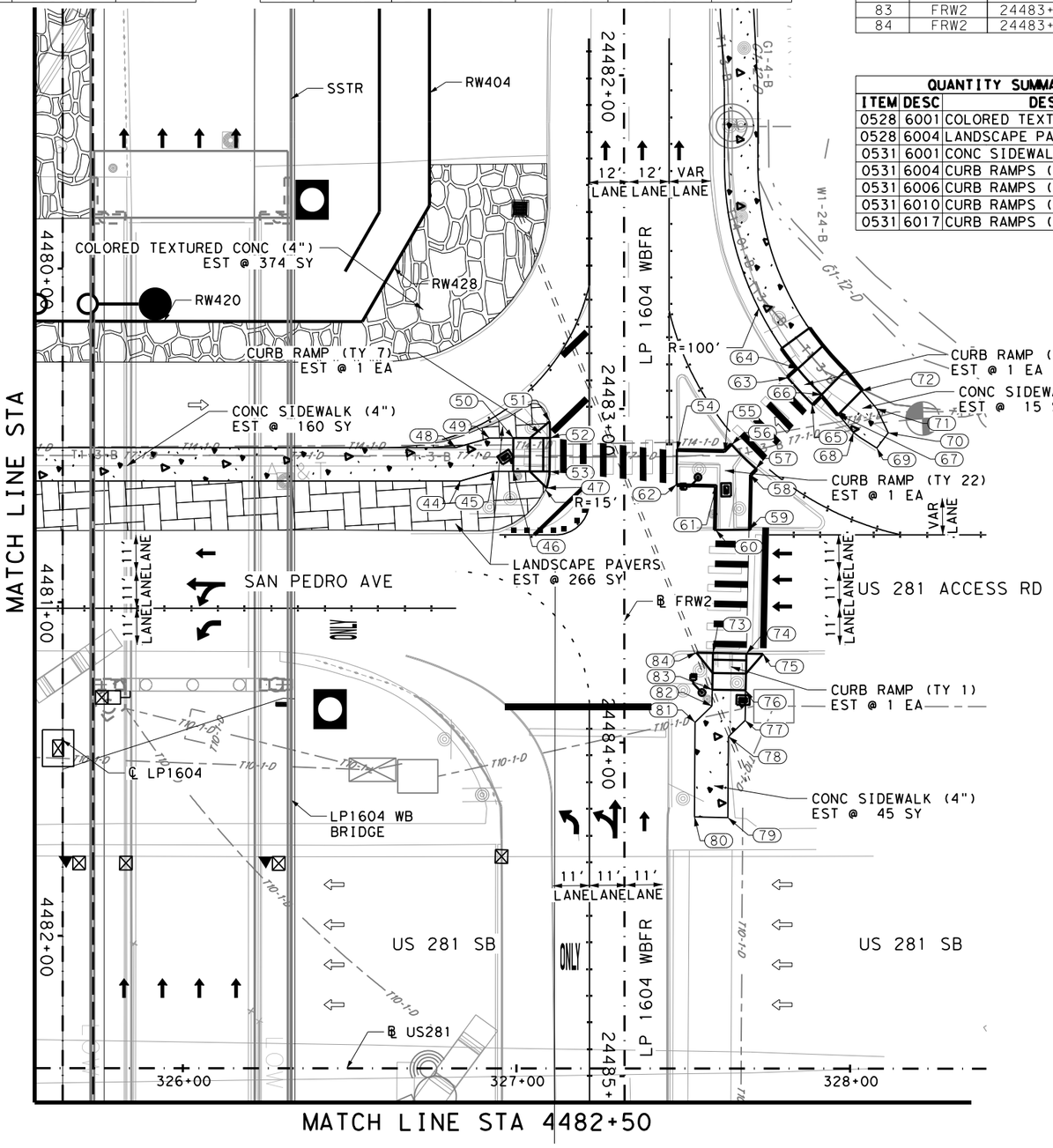
FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	971

8:48:26 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\l130_PD_INT03.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
44	FRE2	24483+21.60	49.09	0.00	SDWK
45	FRE2	24483+18.71	39.03	0.00	SDWK
46	FRW2	24483+18.71	33.33	0.00	SDWK
47	FRW2	24483+23.63	23.25	0.00	SDWK
48	FRW2	24483+11.60	50.50	0.00	SDWK
49	FRW2	24483+08.71	40.43	0.00	SDWK
50	FRW2	24483+08.71	33.22	0.00	SDWK
51	FRW2	24483+03.72	22.36	0.00	SDWK
52	FRW2	24483+08.72	22.43	0.00	SDWK
53	FRW2	24483+18.72	22.33	0.00	SDWK
54	FRW2	24483+12.57	-15.79	966.15	SDWK
55	FRW2	24483+12.89	-30.11	966.86	SDWK
56	FRW2	24483+10.74	-32.24	966.61	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
57	FRW2	24483+17.93	-39.49	966.97	SDWK
58	FRW2	24483+19.67	-37.76	967.17	SDWK
59	FRW2	24483+36.22	-37.41	966.09	SDWK
60	FRW2	24483+36.30	-27.40	965.93	SDWK
61	FRW2	24483+22.83	-27.69	967.01	SDWK
62	FRW2	24483+22.57	-15.71	966.01	SDWK
63	FRW2	24482+90.65	-49.08	0.00	SDWK
64	FRW2	24482+87.95	-52.04	0.00	SDWK
65	FRW2	24482+98.61	-56.39	0.00	SDWK
66	FRW2	24482+95.75	-59.18	0.00	SDWK
67	FRW2	24483+01.71	-64.18	0.00	SDWK
68	FRW2	24483+07.10	-68.71	0.00	SDWK
69	FRW2	24483+11.78	-75.72	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
70	FRW2	24483+07.21	-79.18	0.00	SDWK
71	FRW2	24482+99.95	-75.70	0.00	SDWK
72	FRW2	24482+94.56	-71.17	0.00	SDWK
73	FRW2	24483+73.15	-24.60	0.00	SDWK
74	FRW2	24483+73.36	-36.60	0.00	SDWK
75	FRW2	24483+73.47	-41.60	0.00	SDWK
76	FRW2	24483+84.36	-36.36	0.00	SDWK
77	FRW2	24483+93.43	-36.17	0.00	SDWK
78	FRW2	24483+98.22	-31.16	0.00	SDWK
79	FRW2	24484+22.52	-31.02	0.00	SDWK
80	FRW2	24484+22.31	-21.02	0.00	SDWK
81	FRW2	24483+93.93	-21.19	0.00	SDWK
82	FRW2	24483+89.07	-26.26	0.00	SDWK
83	FRW2	24483+84.15	-26.37	0.00	SDWK
84	FRW2	24483+73.04	-21.61	0.00	SDWK



QUANTITY SUMMARY CSJ 2452-02-130				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	374
0528	6004	LANDSCAPE PAVERS	SY	266
0531	6001	CONC SIDEWALKS (4")	SY	220
0531	6004	CURB RAMPS (TY 1)	EA	1
0531	6006	CURB RAMPS (TY 3)	EA	1
0531	6010	CURB RAMPS (TY 7)	EA	1
0531	6017	CURB RAMPS (TY 22)	EA	1

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'
SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

US 281
INTERSECTION DETAILS
NORTHWEST CORNER

SHEET 2 OF 4

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	972

8:49:33 PM 2/28/2023
V:\bentley\dms\lja production\csanchez\dms03431\l30_PD_INT04.dgn

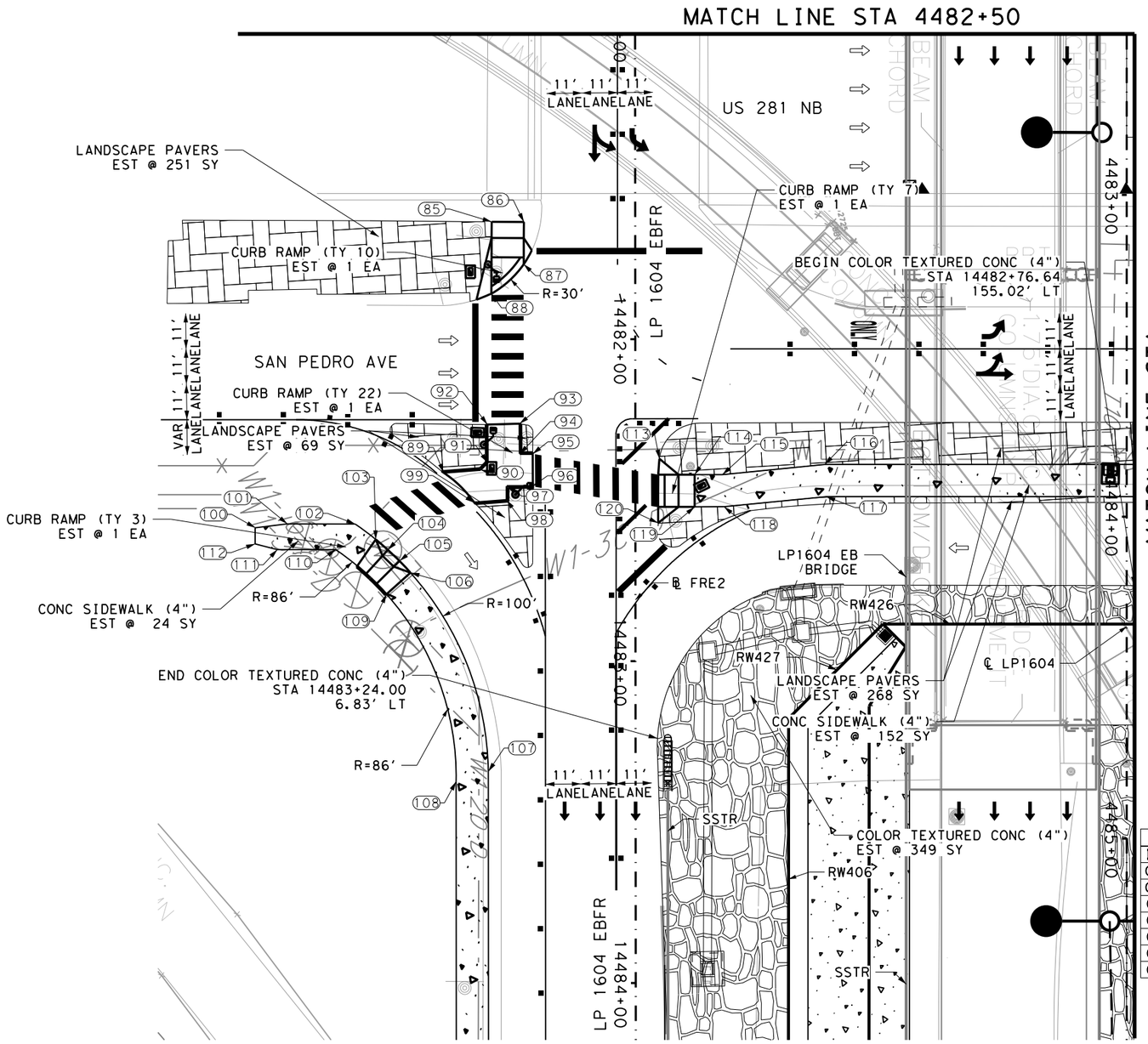
POINT	ALIGN	STA	OFF.	ELEV.	DESC
85	FRE2	14481+63.48	44.58	0.00	SDWK
86	FRE2	14481+63.52	34.58	0.00	SDWK
87	FRE2	14481+76.64	34.63	0.00	SDWK
88	FRE2	14481+85.80	44.67	0.00	SDWK
89	FRE2	14482+41.39	59.57	960.94	SDWK
90	FRE2	14482+40.50	48.09	961.90	SDWK
91	FRE2	14482+38.27	45.87	961.45	SDWK
92	FRE2	14482+26.46	45.94	960.47	SDWK
93	FRE2	14482+26.21	35.94	960.56	SDWK
94	FRE2	14482+35.56	35.89	961.12	SDWK
95	FRE2	14482+35.57	31.89	960.79	SDWK
96	FRE2	14482+45.60	31.83	960.93	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
97	FRE2	14482+45.58	39.98	961.61	SDWK
98	FRE2	14482+49.89	39.97	962.06	SDWK
99	FRE2	14482+50.68	50.07	961.22	SDWK
100	FRE2	14482+58.46	118.03	0.00	SDWK
101	FRE2	14482+57.28	108.13	0.00	SDWK
102	FRE2	14482+57.34	87.02	0.00	SDWK
103	FRE2	14482+62.10	80.68	0.00	SDWK
104	FRE2	14482+65.36	76.90	0.00	SDWK
105	FRE2	14482+68.82	73.29	0.00	SDWK
106	FRE2	14482+72.47	69.86	0.00	SDWK
107	FRE2	14483+34.25	45.74	0.00	SDWK
108	FRE2	14483+37.37	55.74	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
109	FRE2	14482+79.12	77.33	0.00	SDWK
110	FRE2	14482+65.30	93.10	0.00	SDWK
111	FRE2	14482+65.25	111.25	0.00	SDWK
112	FRE2	14482+63.47	118.14	0.00	SDWK
113	FRE2	14482+37.10	-7.47	0.00	SDWK
114	FRE2	14482+42.07	-18.39	0.00	SDWK
115	FRE2	14482+42.05	-27.02	0.00	SDWK
116	FRE2	14482+38.93	-58.83	0.00	SDWK
117	FRE2	14482+48.93	-59.31	0.00	SDWK
118	FRE2	14482+52.05	-27.52	0.00	SDWK
119	FRE2	14482+52.07	-14.40	0.00	SDWK
120	FRE2	14482+57.08	-7.08	0.00	SDWK

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	349
0528	6004	LANDSCAPE PAVERS	SY	519
0531	6001	CONC SIDEWALKS (4")	SY	176
0531	6005	CURB RAMPS (TY 2)	EA	1
0531	6010	CURB RAMPS (TY 7)	EA	1
0531	6013	CURB RAMPS (TY 10)	EA	1
0531	6017	CURB RAMPS (TY 22)	EA	1

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 15' 30' 60'

SCALE: 1"=60'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN-F-1386

©2023 Texas Department of Transportation

LP 1604

US 281
INTERSECTION DETAILS
SOUTHEAST CORNER

SHEET 3 OF 4

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	973

8:50:39 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PD_INT05.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
121	FRW2	24485+58.14	-20.18	0.00	SDWK
122	FRW2	24485+58.19	-30.18	0.00	SDWK
123	FRW2	24485+82.25	-30.63	0.00	SDWK
124	FRW2	24485+93.24	-35.98	0.00	SDWK
125	FRW2	24485+93.23	-30.98	0.00	SDWK
126	FRW2	24485+93.22	-20.98	0.00	SDWK
127	FRW2	24485+92.59	-16.02	0.00	SDWK
128	FRW2	24485+82.24	-20.60	0.00	SDWK
129	FRW2	24486+36.56	-20.93	965.33	SDWK
130	FRW2	24486+29.22	-20.91	964.75	SDWK
131	FRW2	24486+29.36	-30.91	964.90	SDWK
132	FRW2	24486+37.65	-30.93	965.60	SDWK
133	FRW2	24486+46.61	-41.02	965.37	SDWK
134	FRW2	24486+53.66	-33.89	965.41	SDWK
135	FRW2	24486+46.66	-26.02	965.95	SDWK
136	FRW2	24486+46.44	-15.16	965.05	SDWK

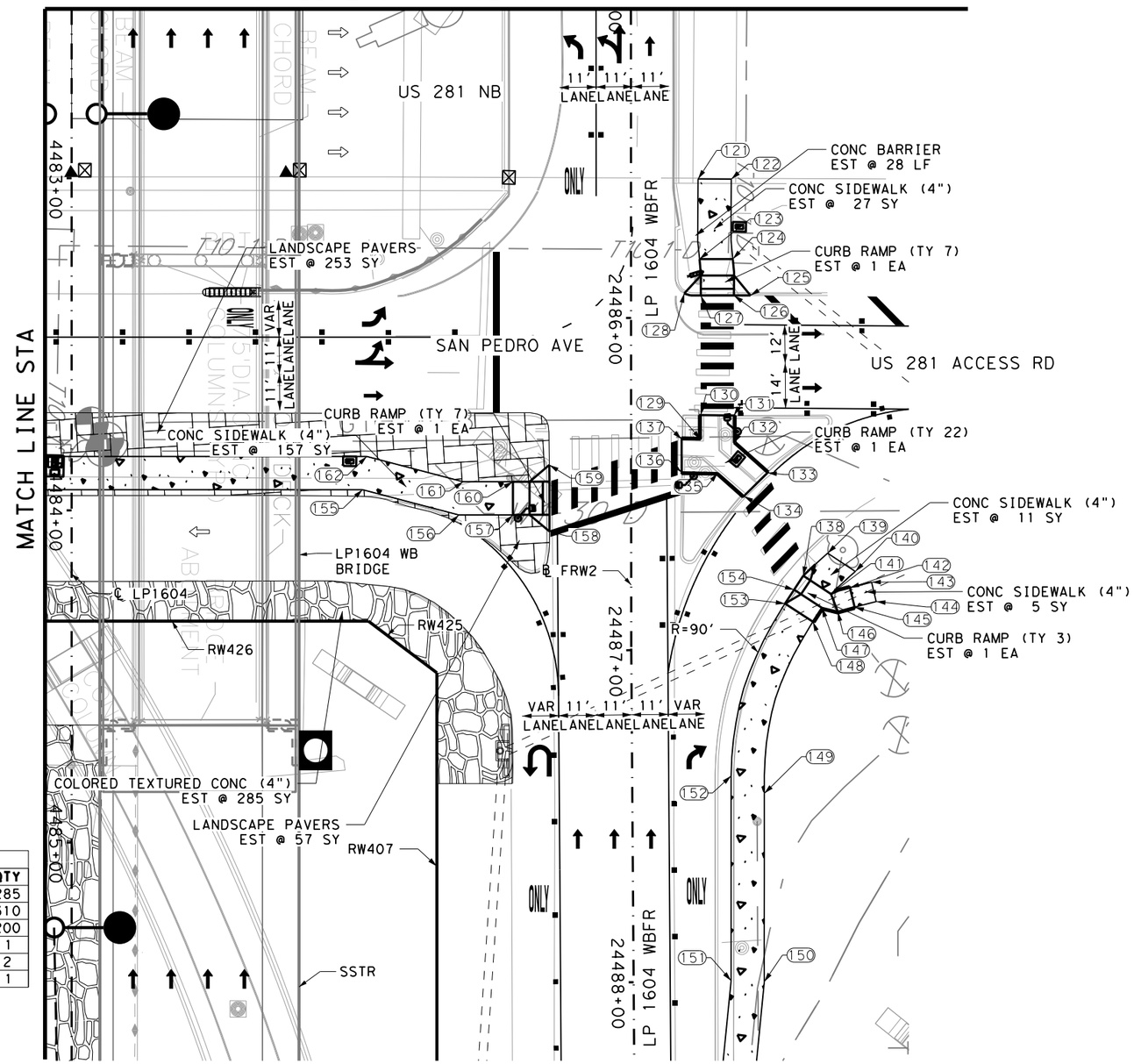
POINT	ALIGN	STA	OFF.	ELEV.	DESC
137	FRW2	24486+36.44	-15.20	964.86	SDWK
138	FRW2	24486+77.64	-51.79	0.00	SDWK
139	FRW2	24486+70.84	-59.13	0.00	SDWK
140	FRW2	24486+76.31	-67.49	0.00	SDWK
141	FRW2	24486+83.11	-60.16	0.00	SDWK
142	FRW2	24486+81.23	-65.86	0.00	SDWK
143	FRW2	24486+79.57	-72.37	0.00	SDWK
144	FRW2	24486+85.41	-73.76	0.00	SDWK
145	FRW2	24486+87.07	-67.25	0.00	SDWK
146	FRW2	24486+88.45	-62.20	0.00	SDWK
147	FRW2	24486+87.30	-57.42	0.00	SDWK
148	FRW2	24486+91.48	-54.68	0.00	SDWK
149	FRW2	24487+43.40	-39.76	0.00	SDWK
150	FRW2	24488+00.11	-39.33	0.00	SDWK
151	FRW2	24487+99.73	-29.32	0.00	SDWK
152	FRW2	24487+38.07	-29.80	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
153	FRW2	24486+86.00	-46.32	0.00	SDWK
154	FRW2	24486+81.82	-49.05	0.00	SDWK
155	FRW2	24486+51.61	80.92	0.00	SDWK
156	FRW2	24486+59.27	51.90	0.00	SDWK
157	FRW2	24486+59.25	35.62	0.00	SDWK
158	FRW2	24486+64.23	24.62	0.00	SDWK
159	FRW2	24486+44.23	24.65	0.00	SDWK
160	FRW2	24486+49.25	35.64	0.00	SDWK
161	FRW2	24486+49.27	50.61	0.00	SDWK
162	FRW2	24486+41.61	79.62	0.00	SDWK

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

MATCH LINE STA 4482+50



NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	285
0528	6004	LANDSCAPE PAVERS	SY	310
0531	6001	CONC SIDEWALKS (4")	SY	200
0531	6006	CURB RAMPS (TY 3)	EA	1
0531	6010	CURB RAMPS (TY 7)	EA	2
0531	6017	CURB RAMPS (TY 22)	EA	1

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN-F-1386

LP 1604

US 281 INTERSECTION DETAILS

NORTHEAST CORNER

SHEET 4 OF 4

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	974

8:51:45 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PD_INT06.dgn

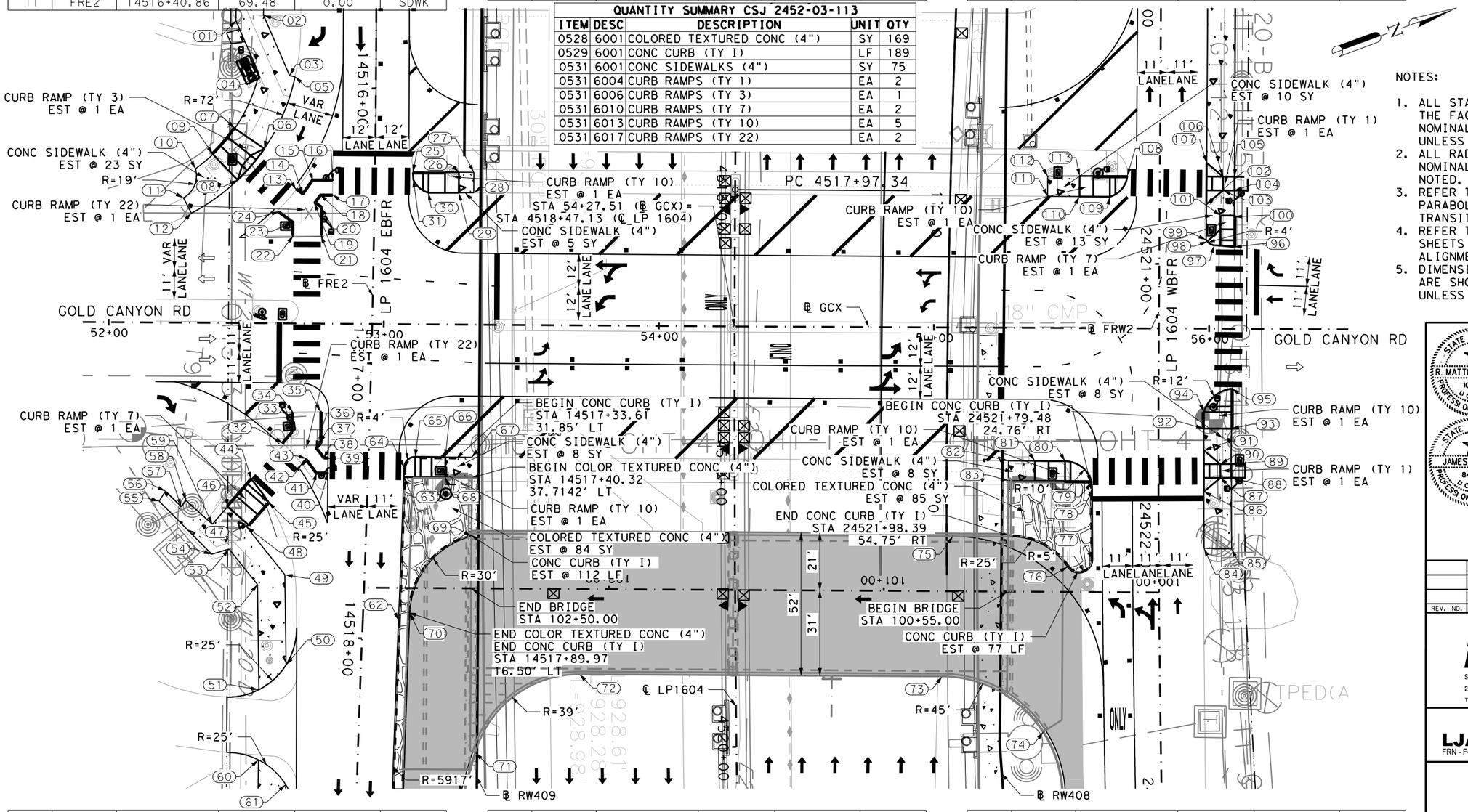
POINT	ALIGN	STA	OFF.	ELEV.	DESC
1	FRE2	14515+75.56	51.01	0.00	SDWK
2	FRE2	14515+73.47	41.01	0.00	SDWK
3	FRE2	14515+95.53	31.38	0.00	SDWK
4	FRE2	14515+95.04	42.53	0.00	SDWK
5	FRE2	14515+95.97	29.42	0.00	SDWK
6	FRE2	14516+22.37	40.33	0.00	SDWK
7	FRE2	14516+15.10	51.14	0.00	SDWK
8	FRE2	14516+34.01	49.87	0.00	SDWK
9	FRE2	14516+24.66	58.99	0.00	SDWK
10	FRE2	14516+30.07	65.22	0.00	SDWK
11	FRE2	14516+40.86	69.48	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
12	FRE2	14516+46.44	66.50	0.00	SDWK
13	FRE2	14516+37.25	28.58	964.92	SDWK
14	FRE2	14516+39.02	26.04	965.18	SDWK
15	FRE2	14516+33.88	22.48	965.37	SDWK
16	FRE2	14516+33.80	15.33	964.77	SDWK
17	FRE2	14516+38.81	15.30	964.71	SDWK
18	FRE2	14516+38.86	19.85	965.09	SDWK
19	FRE2	14516+41.88	21.93	965.18	SDWK
20	FRE2	14516+43.62	19.43	965.44	SDWK
21	FRE2	14516+53.74	19.30	964.60	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
22	FRE2	14516+54.02	29.29	964.75	DSWK
23	FRE2	14516+48.93	29.36	965.18	SDWK
24	FRE2	14516+45.32	34.55	964.84	SDWK
25	FRE2	14516+30.26	13.75	0.00	SDWK
26	FRE2	14516+30.06	30.48	0.00	SDWK
27	FRE2	14516+30.00	35.95	0.00	SDWK
28	FRE2	14516+37.41	36.01	0.00	SDWK
29	FRE2	14516+37.48	30.53	0.00	SDWK
30	FRE2	14516+37.64	19.54	0.00	SDWK
31	FRE2	14516+32.99	13.97	0.00	SDWK

QUANTITY SUMMARY CSJ 2452-03-113

ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	169
0529	6001	CONC CURB (TY I)	LF	189
0531	6001	CONC SIDEWALKS (4")	SY	75
0531	6004	CURB RAMPS (TY 1)	EA	2
0531	6006	CURB RAMPS (TY 3)	EA	1
0531	6010	CURB RAMPS (TY 7)	EA	2
0531	6013	CURB RAMPS (TY 10)	EA	5
0531	6017	CURB RAMPS (TY 22)	EA	2



POINT	ALIGN	STA	OFF.	ELEV.	DESC
32	FRE2	14517+30.01	31.20	963.78	SDWK
33	FRE2	14517+25.92	27.86	964.22	SDWK
34	FRE2	14517+18.47	28.05	963.90	SDWK
35	FRE2	14517+18.10	18.05	963.76	SDWK
36	FRE2	14517+31.38	19.38	964.92	SDWK
37	FRE2	14517+29.40	17.76	964.70	SDWK
38	FRE2	14517+35.18	16.33	965.59	SDWK
39	FRE2	14517+35.13	14.71	965.45	SDWK
40	FRE2	14517+40.14	14.61	963.38	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
41	FRE2	14517+40.26	18.66	963.71	SDWK
42	FRE2	14517+35.34	22.62	963.58	SDWK
43	FRE2	14517+37.31	24.23	963.79	SDWK
44	FRE2	14517+43.61	42.29	0.00	SDWK
45	FRE2	14517+51.64	35.90	0.00	SDWK
46	FRE2	14517+53.87	50.60	0.00	SDWK
47	FRE2	14517+60.23	42.85	0.00	SDWK
48	FRE2	14517+61.00	43.46	0.00	SDWK
49	FRE2	14517+77.97	28.92	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
50	FRE2	14518+10.75	27.23	0.00	SDWK
51	FRE2	14518+20.07	36.78	0.00	SDWK
52	FRE2	14517+81.94	38.73	0.00	SDWK
53	FRE2	14517+69.33	49.54	0.00	SDWK
54	FRE2	14517+71.48	55.78	0.00	SDWK
55	FRE2	14517+52.71	75.59	0.00	SDWK
56	FRE2	14517+48.92	73.40	0.00	SDWK
57	FRE2	14517+54.37	67.49	0.00	SDWK
58	FRE2	14517+52.13	65.79	0.00	SDWK

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN - F-1386

LP 1604

GOLD CANYON RD INTERSECTION DETAILS

SHEET 1 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	975

8:52:56 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms0343\130_PD_INT07.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
59	FRE2	14517+60.51	55.96	0.00	SDWK
60	FRE2	14518+45.39	36.05	0.00	SDWK
61	FRE2	14518+54.02	25.88	0.00	SDWK
62	FRE2	14517+92.97	-13.00	0.00	EOP
63	FRE2	14517+40.97	-13.00	0.00	EOP
64	FRE3	14517+37.46	-13.00	0.00	EOP
65	FRE2	14517+33.48	-16.90	0.00	EOP
66	FRE2	14517+33.21	-27.90	0.00	EOP
67	FRE2	14517+32.97	-37.53	0.00	EOP
68	FRE2	14517+40.57	-28.08	0.00	SDWK
69	FRE2	14517+61.49	-38.31	0.00	EOP
70	FRE2	14517+89.97	-17.00	0.00	EOP
71	FRE2	14518+40.18	-42.67	0.00	EOP
72	FRE2	14518+10.08	-79.47	0.00	EOP
73	FRW2	24522+49.03	79.06	0.00	EOP
74	FRW2	24522+69.51	42.61	0.00	EOP
75	FRW2	24521+98.68	74.70	0.00	EOP
76	FRW2	24522+09.99	33.17	0.00	EOP
77	FRW2	24522+10.87	32.42	0.00	EOP
78	FRW2	24522+07.24	24.00	0.00	EOP
79	FRW2	24521+79.48	24.24	0.00	EOP
80	FRW2	24521+81.66	24.00	0.00	EOP
81	FRW2	24521+71.71	33.92	0.00	EOP
82	FRW2	24521+71.57	54.53	0.00	EOP
83	FRW2	24521+78.75	54.58	0.00	EOP
84	FRW2	24522+03.50	-16.50	0.00	SDWK
85	FRW2	24522+03.77	-26.50	0.00	SDWK
86	FRW2	24521+82.83	-16.50	0.00	SDWK
87	FRW2	24521+77.81	-22.50	0.00	SDWK
88	FRW2	24521+77.81	-26.50	0.00	SDWK
89	FRW2	24521+72.80	-26.50	0.00	SDWK
90	FRW2	24521+72.80	-22.50	0.00	SDWK
91	FRW2	24521+67.79	-16.50	0.00	SDWK
92	FRW2	24521+59.81	-16.50	0.00	SDWK
93	FRW2	24521+59.82	-26.50	0.00	SDWK
94	FRW2	24521+53.80	-16.50	0.00	SDWK
95	FRW3	24521+45.28	-26.50	0.00	SDWK
96	FRW2	24520+93.69	-27.16	0.00	SDWK
97	FRW2	24520+93.06	-19.94	0.00	SDWK
98	FRW2	24520+91.73	-17.42	0.00	SDWK
99	FRW2	24520+91.14	-17.00	0.00	SDWK
100	FRW2	24520+82.69	-27.15	0.00	SDWK
101	FRW2	24520+82.26	-22.17	0.00	SDWK
102	FRW2	24520+78.16	-17.00	0.00	SDWK
103	FRW2	24520+73.16	-23.00	0.00	SDWK
104	FRW2	24520+73.16	-27.15	0.00	SDWK
105	FRW2	24520+68.16	-27.15	0.00	SDWK
106	FRW2	24520+68.16	-23.00	0.00	SDWK
107	FRW2	24520+63.16	-17.00	0.00	SDWK
108	FRW2	24520+68.12	11.83	0.00	SDWK
109	FRW2	24520+75.70	18.16	0.00	SDWK
110	FRW2	24520+75.69	29.16	0.00	SDWK
111	FRW2	24520+75.69	40.75	0.00	SDWK
112	FRW2	24520+68.33	40.75	0.00	SDWK
113	FRW2	24520+68.24	29.16	0.00	SDWK

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

STATE OF TEXAS · R. MATTHEW ESTES · 101558 · LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS · JAMES A. LUTZ · 84722 · LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN - F-1386

LP 1604

GOLD CANYON RD INTERSECTION DETAILS

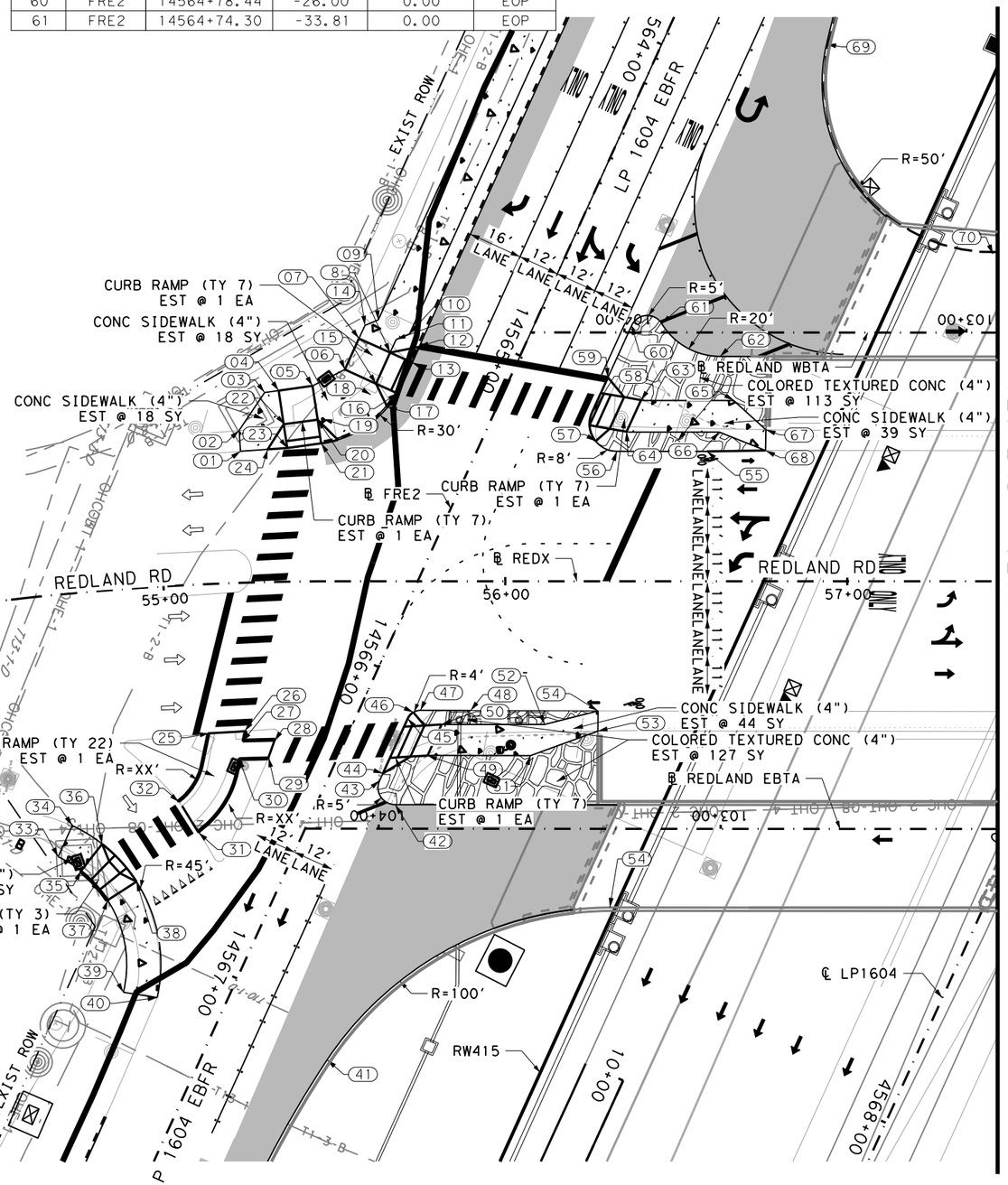
SHEET 2 OF 2

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	976

POINT	ALIGN	STA	OFF.	ELEV.	DESC
1	FRE2	14565+59.31	62.90	0.00	SDWK
2	FRE2	14565+53.86	65.76	0.00	SDWK
3	FRE2	14565+40.70	63.57	0.00	SDWK
4	FRE2	14565+38.49	60.08	0.00	SDWK
5	FRE2	14565+33.14	51.63	0.00	SDWK
6	FRE2	14565+24.91	45.00	0.00	SDWK
7	FRE2	14565+14.91	45.00	0.00	SDWK
8	FRE2	14565+10.69	45.00	0.00	SDWK
9	FRE2	14565+07.64	42.09	0.00	SDWK
10	FRE2	14565+07.62	32.09	0.00	SDWK
11	FRE2	14565+10.68	35.00	0.00	SDWK
12	FRE2	14565+09.88	28.00	0.00	SDWK
13	FRE2	14565+14.88	28.00	0.00	SDWK
14	FRE2	14565+14.89	35.00	0.00	SDWK
15	FRE2	14565+24.89	35.00	0.00	SDWK
16	FRE2	14565+24.88	28.16	0.00	SDWK
17	FRE2	14565+29.79	29.09	0.00	SDWK
18	FRE2	14565+28.43	35.00	0.00	SDWK
19	FRE2	14565+40.70	44.88	0.00	SDWK
20	FRE2	14565+41.53	46.19	0.00	SDWK
21	FRE2	14565+47.40	42.38	0.00	SDWK
22	FRE2	14565+46.76	54.44	0.00	SDWK
23	FRE2	14565+52.75	50.84	0.00	SDWK
24	FRE2	14565+55.50	55.90	0.00	SDWK
25	FRE2	14566+38.10	37.06	916.82	SDWK
26	FRE2	14566+33.28	27.89	916.98	SDWK
27	FRE2	14566+36.27	27.22	917.24	SDWK
28	FRE2	14566+32.19	18.79	917.13	SDWK
29	FRE2	14566+37.42	18.34	917.08	SDWK
30	FRE2	14566+41.18	26.10	917.80	SDWK
31	FRE2	14566+65.86	27.92	915.56	SDWK
32	FRE2	14566+60.12	36.82	915.78	SDWK
33	FRE2	14566+89.29	62.32	0.00	SDWK
34	FRE2	14566+79.29	62.37	0.00	SDWK
35	FRE2	14566+90.27	54.53	0.00	SDWK
36	FRE2	14566+80.55	52.17	0.00	SDWK
37	FRE2	14566+94.84	43.88	0.00	SDWK
38	FRE2	14566+86.43	38.47	0.00	SDWK
39	FRE2	14567+17.49	28.56	0.00	SDWK
40	FRE2	14567+14.76	18.92	0.00	SDWK
41	FRE2	14567+10.78	-33.87	0.00	EOP
42	FRE2	14566+34.64	-21.07	0.00	EOP
43	FRE2	14566+30.09	-14.00	0.00	EOP
44	FRE2	14566+27.81	-14.00	0.00	EOP
45	FRE2	14566+10.15	-14.00	0.00	EOP
46	FRE2	14566+07.86	-14.72	0.00	EOP
47	FRE2	14566+06.50	-16.36	0.00	EOP
48	FRE2	14566+00.44	-29.80	0.00	EOP
49	FRE2	14566+17.66	-23.72	0.00	SDWK
50	FRE2	14566+07.66	-23.72	0.00	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
51	FRE2	14566+05.17	-51.14	0.00	SDWK
52	FRE2	14565+95.17	-51.45	0.00	SDWK
53	FRE2	14565+90.51	-66.15	0.00	SDWK
54	FRE2	14566+36.01	-90.64	0.00	EOP
55	FRE2	14565+13.74	-61.34	0.00	EOP
56	FRE2	14565+13.74	-37.31	0.00	EOP
57	FRE2	14565+13.61	-30.42	0.00	EOP
58	FRE2	14565+06.46	-26.00	0.00	EOP
59	FRE2	14564+95.16	-26.00	0.00	EOP
60	FRE2	14564+78.44	-26.00	0.00	EOP
61	FRE2	14564+74.30	-33.81	0.00	EOP

POINT	ALIGN	STA	OFF.	ELEV.	DESC
62	FRE2	14564+75.98	-53.33	0.00	EOP
63	FRE2	14564+97.17	-37.52	0.00	SDWK
64	FRE2	14565+08.41	-38.20	0.00	SDWK
65	FRE2	14564+86.08	-62.23	0.00	SDWK
66	FRE2	14564+96.23	-62.23	0.00	SDWK
67	FRE2	14564+89.94	-74.38	0.00	SDWK
68	FRE2	14565+95.54	-76.78	0.00	SDWK
69	FRE2	14563+80.00	-43.85	0.00	EOP
70	FRE2	14564+15.70	-113.34	0.00	EOP



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	220
0531	6001	CONC SIDEWALKS (4")	SY	129
0531	6004	CURB RAMPS (TY 1)	EA	2
0531	6006	CURB RAMPS (TY 3)	EA	1
0531	6010	CURB RAMPS (TY 7)	EA	4
0531	6017	CURB RAMPS (TY 22)	EA	1

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc. FRN - F-1386

LP 1604

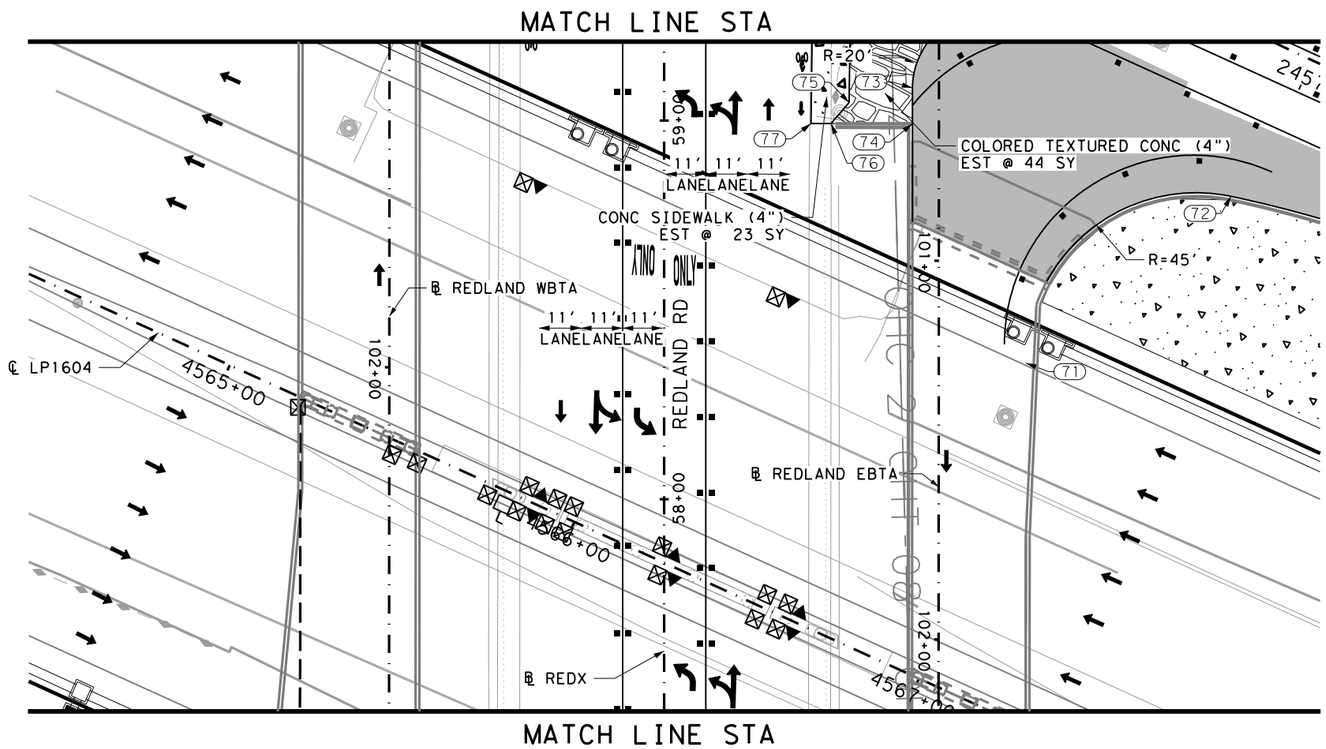
REDLAND RD INTERSECTION DETAILS

SHEET 1 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	977

8:54:27 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms03431\130_PD_INT09.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
71	FRW2	24569+60.10	104.49	0.00	EOP
72	FRW2	24569+90.05	41.59	0.00	EOP
73	FRW2	24569+02.45	51.92	0.00	EOP
74	FRW2	24569+06.53	60.43	0.00	EOP
75	FRW2	24568+89.22	62.73	0.00	SDWK
76	FRW2	24568+87.39	69.82	0.00	SDWK
77	FRW2	24568+82.69	72.14	0.00	SDWK



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	44
0531	6001	CONC SIDEWALKS (4")	SY	23

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.

FRN - F-1386

LP 1604

REDLAND RD INTERSECTION DETAILS

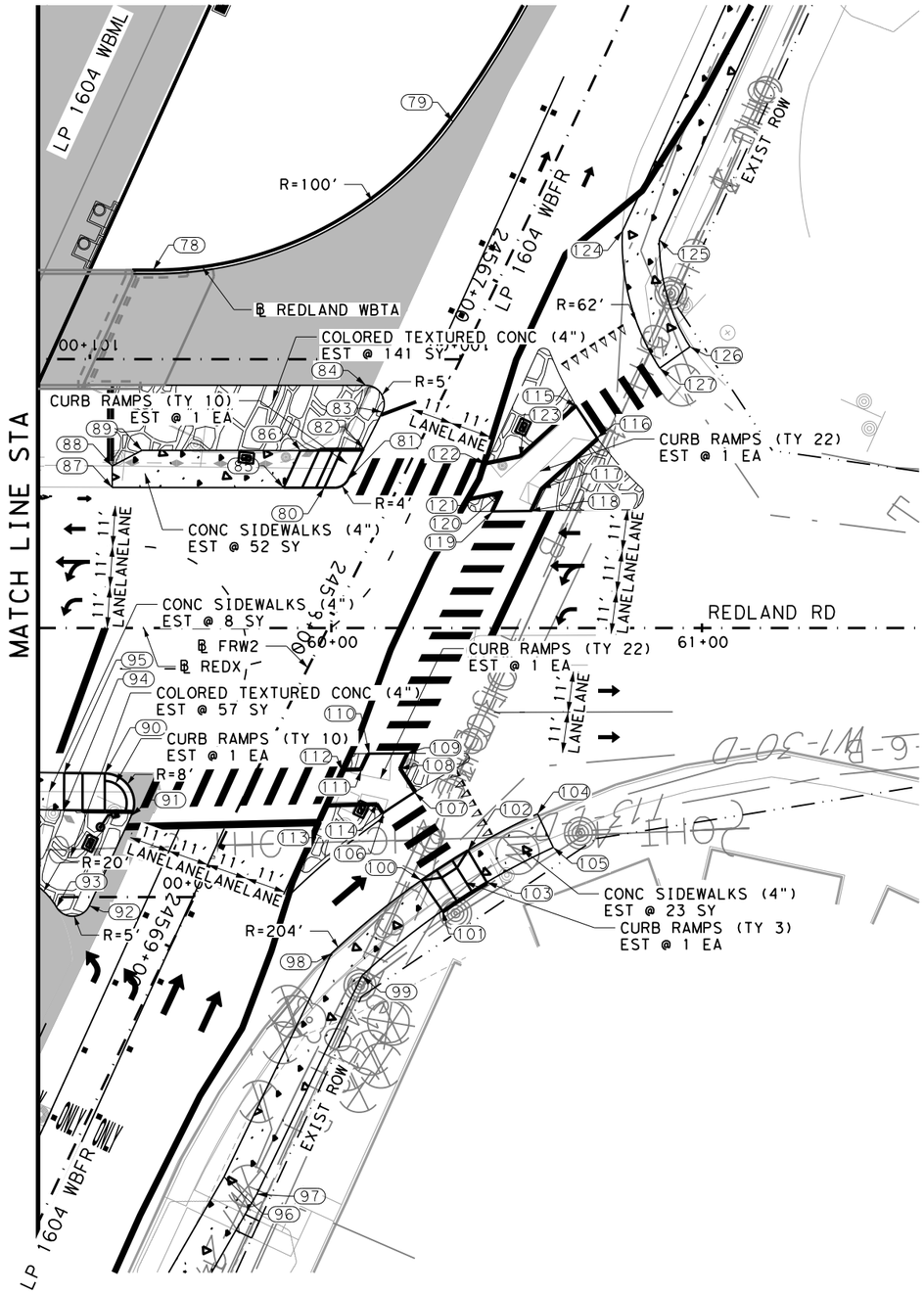
SHEET 2 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	978

8:55:07 PM 2/28/2023
v:\bentley\dms\ja production\csanchez\dms03431\130_PD_INT10.dgn

POINT	ALIGN	STA	OFF.	ELEV.	DESC
78	FRW2	24567+37.91	85.08	0.00	EOP
79	FRW2	24566+66.10	29.58	0.00	EOP
80	FRW2	24567+70.48	17.79	0.00	EOP
81	FRW2	24567+65.65	12.99	0.00	EOP
82	FRW2	24567+56.32	12.89	0.00	EOP
83	FRW2	24567+45.23	12.75	0.00	EOP
84	FRW2	24567+40.66	19.95	0.00	EOP
85	FRW2	24567+75.37	27.64	0.00	SDWK
86	FRW2	24567+64.35	28.01	0.00	SDWK
87	FRW2	24567+96.14	69.02	0.00	SDWK
88	FRW2	24567+90.88	71.61	0.00	SDWK
89	FRW2	24567+83.48	66.32	0.00	SDWK
90	FRW2	24568+65.82	36.34	0.00	EOP
91	FRW2	24568+72.87	24.90	0.00	EOP
92	FRW2	24568+99.52	24.44	0.00	EOP
93	FRW2	24569+03.75	32.19	0.00	EOP
94	FRW2	24568+79.43	41.87	0.00	SDWK
95	FRW2	24568+70.52	46.27	0.00	SDWK
96	FRW2	24569+49.76	-40.04	0.00	SDWK
97	FRW2	24569+50.19	-50.04	0.00	SDWK
98	FRW2	24568+82.48	-39.97	0.00	SDWK
99	FRW2	24568+84.28	-49.98	0.00	SDWK
100	FRW2	24568+53.84	-52.96	0.00	SDWK
101	FRW2	24568+58.71	-61.72	0.00	SDWK
102	FRW2	24568+40.84	-60.65	0.00	SDWK
103	FRW2	24568+46.33	-69.04	0.00	SDWK
104	FRW2	24568+23.45	-73.04	0.00	SDWK
105	FRW2	24568+29.70	-80.92	0.00	SDWK
106	FRW2	24568+41.92	-35.75	924.69	SDWK
107	FRW2	24568+33.22	-40.77	924.70	SDWK
108	FRW2	24568+29.37	-34.20	925.08	SDWK
109	FRW2	24568+24.80	-34.10	925.22	SDWK
110	FRW2	24568+29.33	-25.17	925.19	SDWK
111	FRW2	24568+34.32	-25.28	925.39	SDWK
112	FRW2	24568+36.75	-20.68	924.98	SDWK
113	FRW2	24568+46.78	-21.01	924.54	SDWK
114	FRW2	24568+40.38	-33.13	924.92	SDWK
115	FRW2	24567+20.99	-33.68	929.17	SDWK
116	FRW2	24567+26.11	-42.39	929.00	SDWK
117	FRW2	24567+44.96	-34.72	928.69	SDWK
118	FRW2	24567+51.59	-34.82	928.14	SDWK

POINT	ALIGN	STA	OFF.	ELEV.	DESC
119	FRW2	24567+56.09	-25.90	928.01	SDWK
120	FRW2	24567+50.12	-25.81	928.51	SDWK
121	FRW2	24567+55.51	-18.85	928.08	SDWK
122	FRW2	24567+45.54	-18.60	928.40	SDWK
123	FRW2	24567+39.76	-26.09	929.19	SDWK
124	FRW2	24566+73.10	-24.40	0.00	SDWK
125	FRW2	24566+70.97	-34.38	0.00	SDWK
126	FRW2	24566+93.36	-54.33	0.00	SDWK
127	FRW2	24567+02.01	-49.42	0.00	SDWK



QUANTITY SUMMARY CSJ 2452-03-113				
ITEM	DESC	DESCRIPTION	UNIT	QTY
0528	6001	COLORED TEXTURED CONC (4")	SY	198
0531	6001	CONC SIDEWALKS (4")	SY	83
0531	6006	CURB RAMPS (TY 3)	EA	1
0531	6013	CURB RAMPS (TY 10)	EA	2
0531	6017	CURB RAMPS (TY 22)	EA	2

LEGEND:

- EXIST ROW
- PROP ROW
- EXIST DRN ESMNT
- WIDENING CONTROL LINE
- EXIST TRF FLOW
- PROP TRF FLOW
- PROP 4" CONC
- TEXT CONC 4"
- PROP WIDENING/ RECONSTRUCTION
- XXX-X CURVE ID LABEL
- XXXXX DRIVEWAY ID
- SENSITIVE FEATURES (ID)

NOTES:

1. ALL STATIONS AND OFFSETS ARE SHOWN TO THE FACE OF CURB IN CURBED AREAS AND NOMINAL FACE OF RAIL IN RAIL SECTIONS, UNLESS OTHERWISE NOTED.
2. ALL RADII ARE SHOWN AT FACE OF CURB OR NOMINAL FACE OF RAIL, UNLESS OTHERWISE NOTED.
3. REFER TO SUPERELEVATION TABLES FOR PARABOLIC VS LINEAR SUPERELEVATION TRANSITIONS.
4. REFER TO HORIZONTAL ALIGNMENT DATA SHEETS FOR THE CURVE DATA AND ALIGNMENT INFORMATION.
5. DIMENSIONS TO CURB OR BARRIER/RAIL ARE SHOWN TO THE NOMINAL FRONT FACE, UNLESS OTHERWISE NOTED.

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

DESIGN

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

0' 10' 20' 40'

SCALE: 1"=40'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

©2023 Texas Department of Transportation

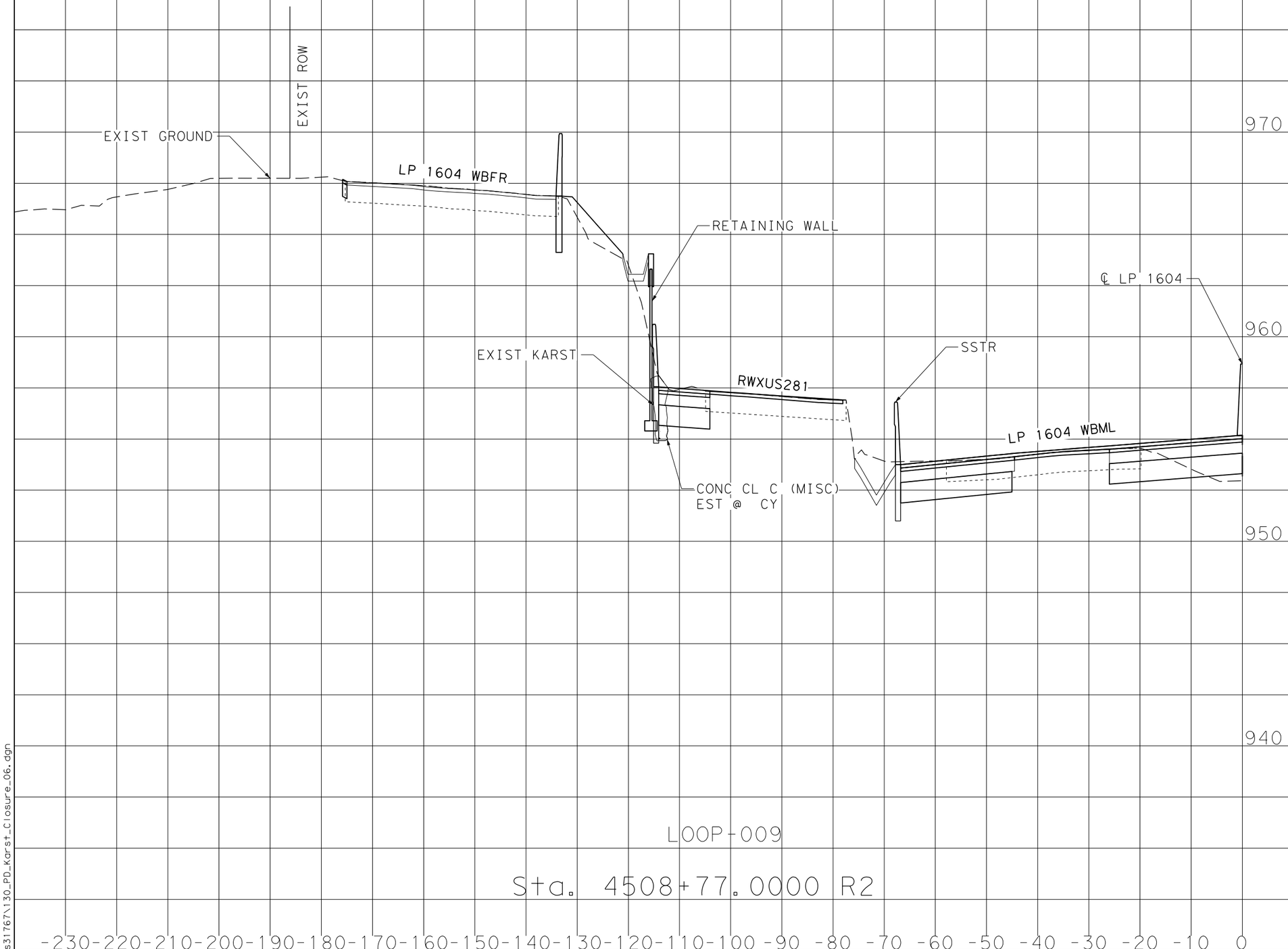
LP 1604

REDLAND RD INTERSECTION DETAILS

SHEET 3 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	979

8:55:46 PM 2/28/2023
v:\bentley\dms\lja production\csanchez\dms0343\v130_PD_INT11.dgn



DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 3/21/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 3/21/2023 DATE

0′ 5′ 10′ 20′
SCALE: 1"=20′- HORZ
1"=5′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800

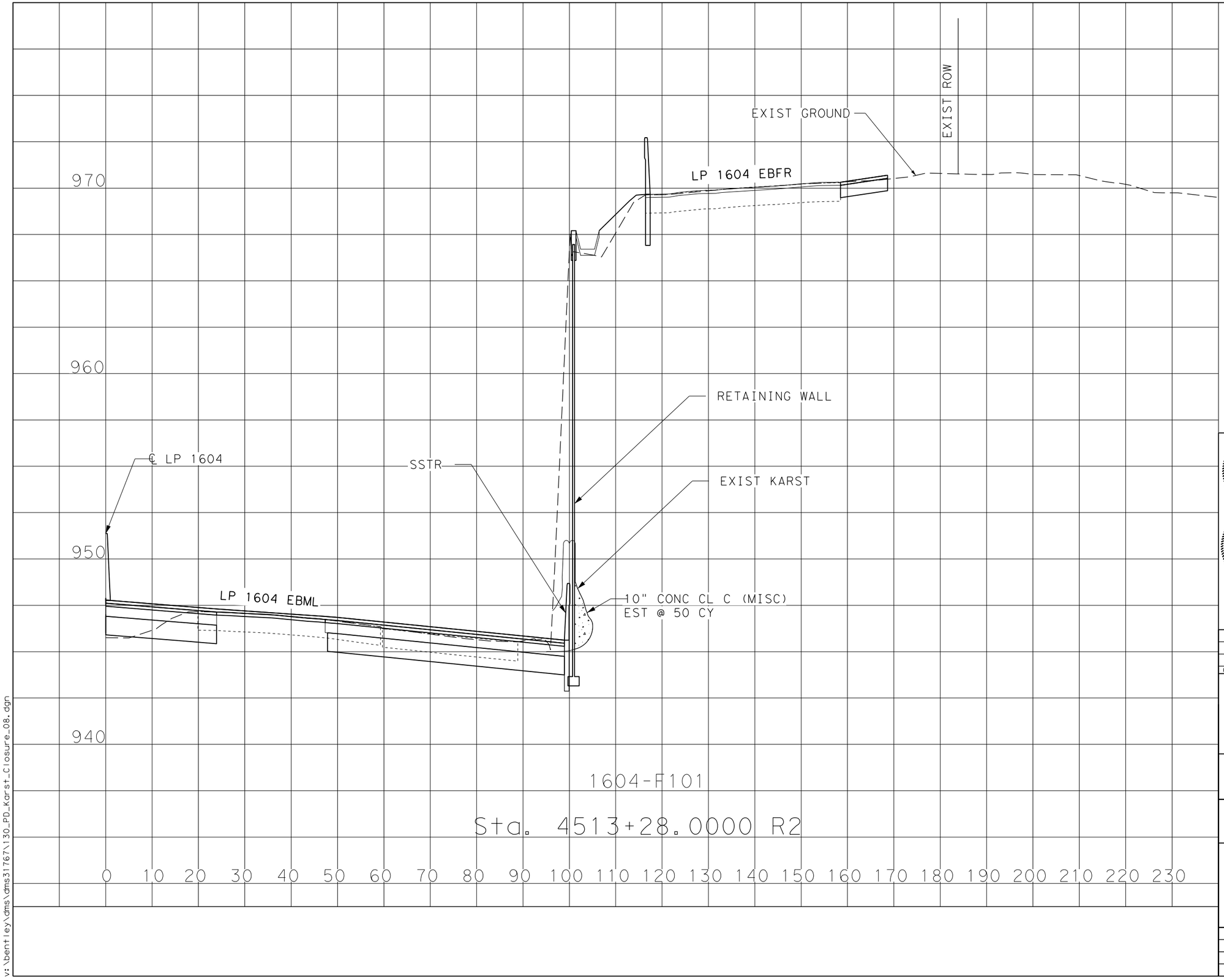
LJA Engineering, Inc.
FRN-F-1386

LP 1604
KARST CLOSURE DETAIL

SHEET 1 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	980

8:09:16 AM 3/21/2023
v:\bentley\dms\dms31767\130_PD_Karst_Closure_06.dgn



DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 3/21/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 3/21/2023 DATE

0′ 5′ 10′ 20′
SCALE: 1"=20′- HORZ
1"=5′ - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028800

LJA Engineering, Inc.
FRN-F-1386

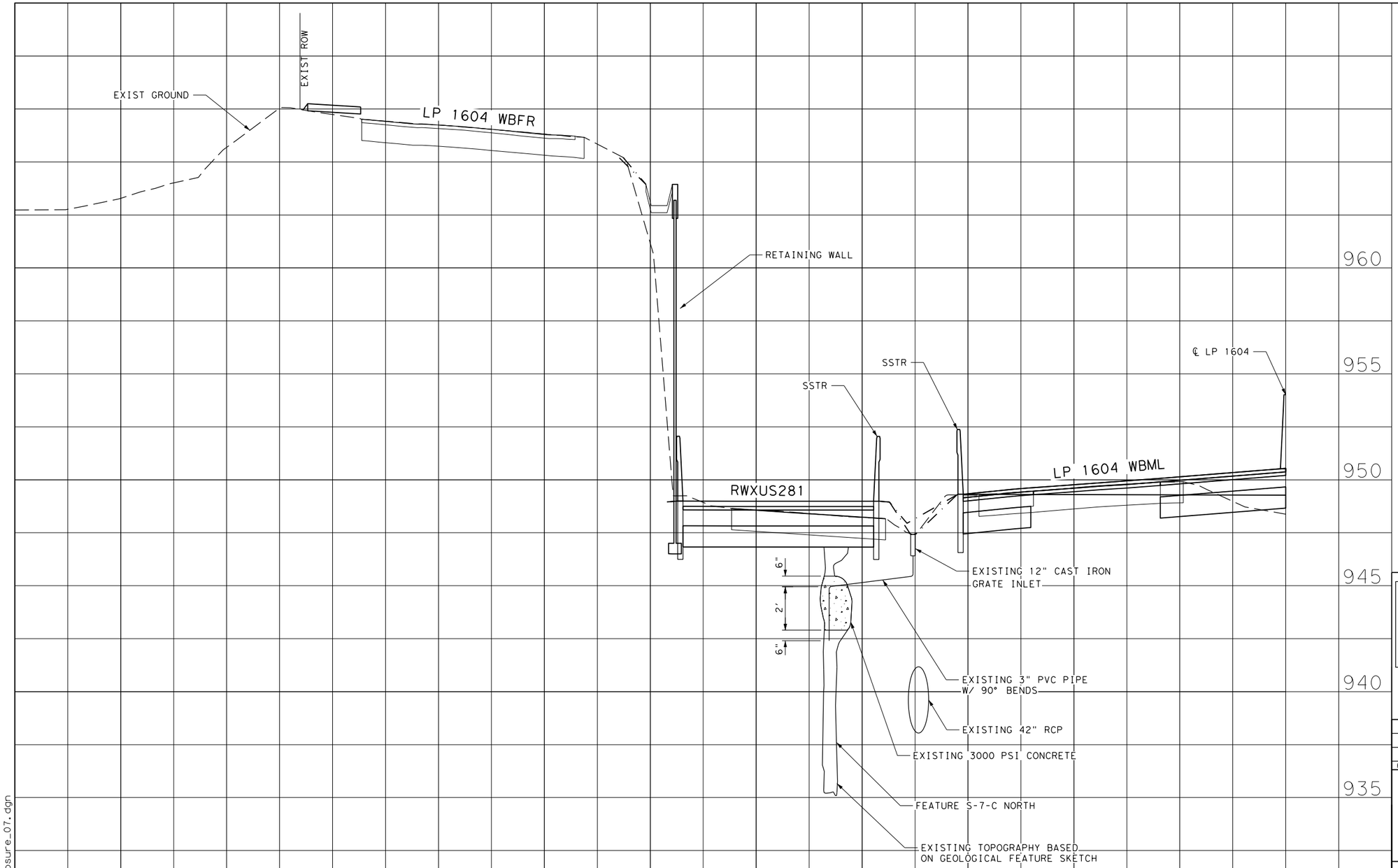
 Texas Department of Transportation

LP 1604
KARST CLOSURE DETAIL

SHEET 2 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	981

8:09:19 AM 3/21/2023
v:\bentley\dms\dms31767\130_PD_Karst_Closure_08.dgn



NOTES:

1. THIS SHEET PROVIDED FOR CONTRACTOR INFORMATION ONLY. CONTRACTOR TO PROTECT EXISTING KARST FEATURE AND RECHARGE SYSTEM DURING GRADING OPERATIONS. DO NOT DISTURB EXISTING GRATE INLET OR ALLOW INLET TO BECOME BLOCKED DURING CONSTRUCTION.

INTERIM REVIEW

DOCUMENT INCOMPLETE. NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION.

ENGINEER: JAMES A. LUTZ

P.E. SERIAL NO: 84722

DATE: 3/21/2023

0' 5' 10' 20'

SCALE: 1"=20'- HORZ
1"=5' - VERT

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800

LJA Engineering, Inc.
FRN-F-1386

LP 1604
KARST CLOSURE
DETAIL

SHEET 3 OF 3

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(616)MM			LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	128, ETC	982

8:09:21 AM 3/21/2023
v:\bentley\dms\dms31767\130_PD_Karst_Closure_07.dgn

Item 110 - Excavation (special)

General notes to Excavation Special:

The portions of retaining walls 408 & 409 that have exposed rock finish require an exposed fractured rock finish, SL 1604 stations 4524+00 to 4534+50, as outlined below. The purpose/intent is to match the facture patterning and finish as it currently exists along the SL1604 cut walls located at the Huebner and Bitters intersections. For these portions of retaining walls 408 & 409, the rock fragmentation blasting techniques are required as it is defined below. The final finish for the wall requires a presplit blast finish.

The portions of retaining walls 408 & 409 receiving rock nailed facia, SL 1604 station 4507+50 to 4524+00, also require rock fragmentation blasting techniques with the presplit blast finish as defined below. For all other retaining walls rock fragmentation blasting is not allowed.

Excavation in front of the entirety of retaining walls 408 & 409 will be paid for under item 110 excavation (special). Any necessary backfill between the retaining wall facia and blasted slope to replace material removed by blasting will not be paid for directly but will be the contractor's responsibility subsidiary to item 110 excavation (special).

Rock fragmentation blasting is not allowed within 30' of bridge foundations.

Comply with City of San Antonio ordinance. City of San Antonio permitting is not required.

Refer to traffic control for phasing and SL1604 closures.

Production holes are no greater than 3 1/2".

Equipment necessary to remove debris from roadway must be present at when blasting is to occur/occurring. Removal of debris must begin immediately after each blast occurrence and be completed within 3 working days. Do not allow debris to collect in drainage ditches or in front of storm inlets. Debris impeding drainage must be cleared from these areas immediately after each blast occurrence.

See TCP for additional construction details/limitations.

1. DESCRIPTION

Below outlines the requirements for rock fragmentation blasting using production and controlled blasting techniques to construct engineered rock cuts per the limits identified in the plans.

This work consists of rock fragmentation blasting using production and controlled blasting techniques to construct engineered rock cuts.

2. CONSTRUCTION

2.1. Definitions.

2.1.1. **Production blasting**. Blasting using widely spaced blast holes that typically contain larger explosive charges to expedite movement and fragmentation for rock removal.

Controlled blasting. Blasting that includes presplit blasting and cushion blasting hole techniques. Controlled blasting uses closely-spaced and carefully aligned blast holes that typically contain lighter charges than production holes to produce stable, aesthetically pleasing rock faces with minimal blast damage. Controlled blast holes are the first row of blast holes, normally located within 24 inches of the top of the staked slope.

Presplit blasting. Presplit blasting detonates closely spaced backslope holes before drilling for production blasting or before detonating the production blasting holes to produce a highly controlled, smooth cut face. Blasting holes will be no greater than 3' on centers.

Cushion blasting. Cushion blasting is similar to presplitting, except that the detonation of the cushion holes along the backslope is detonated immediately after the detonation of the production and buffer holes, generally resulting in a more natural cut face appearance.

2.2. Construction Requirements

2.2.1. **Regulations.** Comply with Federal, state, and local regulations for the purchase, transportation, storage, and use of explosive material. Federal regulations include the following:

Safety and health. OSHA, 29 CFR Part 1926, Subpart U - Blasting and the Use of Explosives (1926.900 to 1926.914); NFPA (National Fire Protection Agency) specifically but not limited to (Chapter 10.1 – 11.2.2);

Storage, security, and accountability. Bureau of Alcohol, Tobacco and Firearms (BATF), 27 CFR Part 555 Commerce in Explosives

Purchase and Shipment. DOT 49 CFR Parts 171-179,390-39; Subpart U, "Blasting and Use of Explosives," of the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 29 CFR Part 1926 and Section 109, "Explosives and Blasting Agents," of 29 CFR Part 1910, regulations of Department of Justice, Bureau of Alcohol, Tobacco and Firearms, and Explosives, contained in 27 CFR Part 555, "Commerce in Explosives", implementation of the Safe Explosives Act, Title XI, Subtitle C of Public Law 107-296; Interim Final Rule and Department of Transportation CFR 49, parts 100-177; 301-399. In case of conflicts, the more stringent will prevail.

2.2.2. **Qualifications.** Submit the following for approval at least 14 days before drilling and blasting operations begin:

2.2.2.1. **Blaster-in-charge.** Furnish an individual who can directly supervise the drilling and blasting crew during drilling, loading, and detonation of charges. Include the following:

2.2.2.1.1. Name of blaster-in-charge

A résumé showing at least 5 years' experience as a blaster-in-charge on projects with similar work;

Copy of a valid blaster license accepted by the state where the project is located for the type of blasting required; and

Five references with knowledge of qualifications and reliability. Include name, relationship, and current telephone number for each reference.

2.2.2.2. **Blasting crew personnel.** Names of personnel and evidence they have completed at least 24 hours of blasting safety training in the last 5 years' or have at least 2 years' of blasting experience.

2.2.2.3. **Drillers.** Names and evidence, they are proficient in drilling methods required to perform the work.

2.2.2.4. **Vibration specialist**. Name and résumé showing at least 5 years' experience as a vibration specialist on projects with similar work.

LP 1604
SPECIAL EXCAVATION DETAIL

SHEET 1 OF 5

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	983

2.2.3. **Blasting Plans.** Submit proof of applicable permits, licenses, and a general blasting plan signed by the blaster-in-charge at least 14 days before drilling and blasting operations. Blasting plans are not required for boulder reduction blasts (mudcapping or blockholing). Reporting

2.2.4. **General blasting plan**. Submit a general blasting plan for review and approval by the Engineer. Include the following:

Procedures and safety precautions for transporting, handling, storing, loading, and detonating explosives, conducting pre- and post-blast surveys, monitoring blasts, managing misfires, and removing and disposing of excess explosives.

Explosives transportation and storage plan, including:

Name, address, and telephone number of explosives suppliers;

Description and license number of explosives transport vehicles, routes to be traveled, proposed hours of travel, and driver qualifications;

Magazine and day-box locations;

Explosives and accessories inventory system; and

Contact information for the person responsible for security of project blasting material and supplies.

Area security plan including explosives and general site security, methods of site communication, pre- and post-blast signage and audible signaling systems, road closure requirements, and pre-blast notification for affected agencies or entities.

Manufacturer's SDS and product data sheets for proposed explosives, primers, initiators, and related blasting devices and accessories.

Excavation plans and equipment lists for pre-blast scaling and pioneered access roads, and benches for drilling and blasting operations.

Typical plan and section views for both production and controlled blasting, including stationing intended for each typical plan, maximum blast length, free face, burden, hole spacing, hole inclination, hole depth, hole diameter, stemming depth, subdrill depth, powder factor, charge per delay, initiation method and sequence, and delay times.

Methods for limiting dust and noise.

Fire watch plan including number of post-blast observers and duration of the fire watch.

Contingency plan for blast flyrock containment, including the names and qualifications of those responsible for preparing containment system designs.

Do not deliver explosives to the project until the general blasting plan is accepted. Submit revisions and updates within 48 hours of changes in the above information.

Site-specific blasting plans and general plan revisions and updates. Submit site-specific blasting plans after approval of the general blasting plan or at times there is a change in drilling and blasting methods provided in the general blasting plan. Allow 3 days for approval. Do not begin drilling until the plan is approved. Include the following:

2.2.4.1.1. Proposed excavation sequence;

Station limits and plan view of the proposed blast, showing how the proposed blast fits into the lift excavation sequence;

Elevations of the tops and bottoms of each lift;

Scaled drawings for each blast showing access, containment, plan and section views of drill patterns, clearing limits, free face, burden, blast hole locations, blast hole spacing, subdrill depths, lift height, blast hole diameters, and blast hole angles;

Loading diagram for each blast showing powder factor, charge per delay, type and quantity of explosives, primers, initiators, locations of decking, and range of stemming depths for substantial variations within the drill pattern;

Initiation method and sequence of blast holes for each blast. Include delay times, delay system, and down hole firing times;

Flyrock control measures;

Estimated volume of in-place rock to be blasted. Include the total length of production and controlled blast hole;

Location and orientation of significant joints, fractures, faulting, bedding planes or other rock mass structural features to be accounted for in the site-specific blasting plan; and

Post-blast rockfall containment designs and procedures.

2.2.5. **Pre-Blast Condition Survey and Vibration Monitoring and Control.** The Contractor is responsible for damage resulting from blast related ground vibrations and air-blast over-pressures. Determine the need for vibration monitoring depending on soil and rock conditions, blasting parameters as outlined in the blasting plan, and proximity of buildings, structures, utilities, and sensitive natural features that may be subject to damage from ground vibrations or air-blasts. If vibration monitoring is required conform to the following requirements:

If not specified in the contract, establish referenceable blasting criteria for buildings, structures, utilities and natural features that conform to federal, state, or local regulations. Present blasting criteria in terms of distance of the facility or feature from blasting, maximum allowable peak particle velocity limits versus structure type, maximum allowable peak particle velocity versus peak frequency, and air over-pressure structure damage limits.

Conduct a pre-blast condition survey of nearby buildings, structures, utilities, and natural features potentially damaged by blasting-related ground vibrations or air-blast. Document the natural frequency of each affected structure or feature. Use a survey method acceptable to the Contractor's insurance company. Submit a copy of pre-blast condition survey records with the site-specific blasting plans for Engineer review.

Control ground vibrations and air-blast over-pressures with properly designed delay sequences and maximum allowable charge weights per delay. Verify allowable charge weights per delay by conducting representative trial blasts and measuring ground vibrations and air-blast over-pressure levels. Conduct test blasts with blast plan modifications that limit ground vibrations and air-blast over-pressures to levels that will not cause damage to nearby buildings, structures, utilities and natural features as determined by the vibration specialist.

When ground vibration or air-blast damage is possible, monitor each blast with digital recording seismographs and air-blast monitoring equipment calibrated within the last year and approved by the Engineer. Locate monitoring equipment as directed by the vibration specialist. Place at least three recording stations between the blast area and closest susceptible structures, utilities, or natural features. Place at least one station on the structure. For ground vibration monitoring, use seismographs capable of recording particle velocity, displacement and acceleration for three mutually perpendicular components of vibration. Use a seismograph with a lower linear response limit over the response frequency range of not more than 2 hertz and upper limit not less than 50 hertz. Use sensors having lower thresholds not higher than 0.005 inches (0.13 millimeters),

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

SPECIAL EXCAVATION DETAIL

SHEET 2 OF 5

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	984

0.05 inches (1.3 millimeters) per second, and 0.02g. Use seismographs capable of producing a permanent digital time history file for each ground motion episode.

Ensure blasting operations incorporate collected data and findings from vibration monitoring by having the vibration specialist interpret seismograph and air-blast records.

2.2.6. **Test Blasting.** Before beginning full-scale drilling and blasting, demonstrate adequacy of the site-specific blasting plan by drilling, blasting, and excavating a test blast of up to 100 cubic yards (75 cubic meters) with proposed containment measures in-place. Conduct the test at an approved location within the planned excavation area.

A test blast is unacceptable when it results in oversized fragmentation, excessive or uncontrolled flyrock, potentially damaging ground vibrations or air-blasts, unplanned overbreak, excessive damage to the final rock face, or unwanted overhangs. When a test blast is unacceptable, revise the site-specific blasting plan and conduct an additional test blasts until the combination of blast hole pattern spacing, controlled blast hole alignment, and charges produce acceptable results.

2.2.7. **Blasting.** Use explosives and initiating devices less than 1-year old. Locate explosives magazines at sites approved by the Engineer.

Inspect the pre-blast area and submit the proposed extent of pre-blast clearing and scaling for approval.

Use angle- or fan-drilled holes as needed during initial pioneering operations to obtain the desired face. Controlled blasting requirements are applicable to pioneering work.

Record and maintain a log of each blast hole drilled identifying the depth, color, and character of the cuttings, penetration rate, hole collar location and hole orientation, and other pertinent information. Before initiating the blast, prepare a blast plan map and submit it showing designated hole numbers along with individual hole logs completed, dated and signed by the driller.

Ensure blast holes are free of obstructions for the entire depth before placing charges. Take necessary precautions when placing charges so, caving of material from the walls of the holes and the hole collar will not occur.

Mitigate uncontrolled gas pressure loss during blasting and excessive blast noise by stemming the upper portion of blast holes with appropriate dry granular material passing the ½-inch (12.5-millimeter) sieve. Do not stem holes with drill cuttings.

Blast according to the approved site-specific blasting plan. Use blasting mats, rockfall containment systems, and other protective devices to prevent damage to surrounding features.

Stop drilling and blasting operations, and submit a revised site-specific blasting plan when the following occur:

• Slopes are unstable;

• Slopes exceed overbreak tolerances;

• Unwanted overhangs, ridges, or ledges are created;

• Excessive blast damage occurs;

• Poor fragmentation results in oversize material requiring secondary blasting and rehandling;

• Safety of the public is jeopardized;

• Property or natural features are endangered;

• Excessive or uncontrolled flyrock is generated;

• Excessive ground vibration or air-blast over-pressures occurs where damage to buildings, structures, utilities or natural features is possible; or

• Desired slope or rock face conditions are not produced.

Remove or stabilize cut face rock that is loose, hanging, or potentially dangerous after each blast. Scale by methods approved by the Engineer. Leave minor irregularities or surface variations in place if they do not create a hazard. Excavate and remove material outside of the planned neat line slopes which is unstable and constitutes a potential hazard. Do not drill the next lift until slope stabilization and blast cleanup work is complete.

2.2.7.1. **Production blasting.** When conducting cushion blasting or presplitting, drill a lighter-loaded buffer row of production holes on a parallel plane adjacent to the controlled blast line to minimize blast damage to the final slope.

Drill production blast holes a maximum of 4 inches (100 millimeters) in diameter to a sufficient depth such that unbroken rock does not extend above the finish surface. Drill production blast holes to the design depth. If more than 5 percent of the production blast holes in a lift do not conform to the design depth requirements, redrill the shallow holes to the proper. Except when subdrilling, do not drill production blast holes, below the base plane of the controlled blast holes.

Drill production blast holes within two drill hole diameters of the planned collar location. If more than 5 percent of the drill hole collars in a lift are out of tolerance, fill each hole outside of the location tolerance with crushed stone and redrill at the proper.

Detonate production holes in a controlled delay sequence.

Controlled blasting. Use angled or fan drilled holes for pioneering the tops of rock cuts and preparing working platforms. Use equipment or methods approved by the Engineer for areas not accessible to track drill equipment.

Before drilling, completely remove overburden, soil, and loose or decomposed rock along the top of the excavation for a distance of at least 30 feet (9 meters) beyond the end of the production hole drilling limits, or to the end of the cut.

Use controlled blasting to form the final cut face on rock cuts where the staked slope ratio is 1⅓V:1H or steeper and the slope height is more than 10 feet (3 meters) above the ditch grade.

Use drilling equipment that accurately controls the angle the drill as it enters the rock. Select a lift height and conduct drilling operations so the blast hole spacing and down-hole alignment does not vary more than 8 inches from the proposed spacing and alignment. If more than 5 percent of the holes exceed the variance, reduce the lift height and modify drilling operations until the holes are within tolerance.

Drill holes a maximum of 3 inches in diameter and within 3 inches of the staked collar location. Fill and redrill blast holes outside of the location tolerance when more than 5 percent of the hole collars in a lift are outside of the location tolerance Use crushed stone to fill the blast holes before redrilling. Drill the controlled blast hole line at least 30 feet (9 meters) beyond loaded production holes or to the end of the cut.

Do not exceed 30 feet (9 meters) for bench height or drill hole length. Limit subdrilling of holes to one-half of the hole spacing or 24 inches whichever is deeper.

Offset lifts up to 24 inches horizontally to allow for drill equipment clearance. Remove benches resulting from the drilling offset.

DESIGN

STATE OF TEXAS — R. MATTHEW ESTES — 101558 — LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

SPECIAL EXCAVATION DETAIL

SHEET 3 OF 5

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	985

Compensate for drift that may occur in the upper lifts. Adjust the drill inclination angle or the initial drill collar location to obtain the required typical section. Limit drilling to one-half of the hole spacing or 24 inches whichever is deeper.

Only standard explosives manufactured specifically for controlled blasting will be used in controlled blast holes, as approved by the Engineer.

Maximum diameter of explosives used in controlled blast holes will be no greater than one-half the diameter of the presplit hole.

2.2.7.2. **Presplitting.** Do not presplit final slopes and rock faces. When presplitting is allowed in the plans, either presplit along the slope face before drilling for production blasting or presplit the slope face in conjunction with production blasting.

Cushion blasting. Perform cushion blasting to produce rough, natural looking rock slopes. Use the existing geologic structure to create rock surfaces, terraces, and ridges that blend with adjacent undisturbed rock faces. Preserve existing rock outcrops to the extent practical to vary the cut face slope, composition, color, and texture.

Horizontal blasting. With Engineer approval only, use horizontal drill holes instead of or in conjunction with vertical cushion blasting drill holes to produce natural looking rock slopes, mitigate drill hole traces, assist pioneering access for drill bench excavation, or to excavate sliver rock cuts where vertical drilling is not feasible.

When required, preserve or create soil pockets and ledges for revegetation. Locate, size, and shape these features to replicate the vegetated areas on the undisturbed rock faces. Incorporate these features into the site-specific blasting plans. Do not create features by overshooting or selectively removing damaged rock.

2.2.8. **Reporting.**

2.2.8.1. **Post-blast.** Prepare an post-blast report for blasts. Submit the report within 3 days following a blast and before drilling for the next blast. Include the following:

Results of the blast (overbreak, blast damage, noise levels, flyrock, drill trace retention, fragmentation, material containment, material rehandling requirements, and misfires);

Submit proposed changes for future site-specific blasting plans that will produce acceptable results if blasting objectives were not met. Submit proposed repairs or stabilization plans for unstable or blast damaged backslopes;

A detailed blasting plan amended to show significant changes in pattern, loading, or timing;

Drilling logs for each hole completed (dated and signed by the driller) that identify the depth, color, and character of the cuttings. Also include the penetration rate, hole collar location, hole orientation, and conditions that adversely affected drilling or explosives loading operations;

Depth measurements of production and controlled blast holes;

A drawing or sketch showing the direction of blast, the face, or faces, hole numbers, and the physical blast layout;

Measurement of overbreak quantities following lift mucking;

Date and time of loading and detonating the blast; and

Name and signature of the blaster-in-charge.

Vibration and air-blast reporting. Submit a vibration and air-blast report within 3 days of a blast for review by the Engineer. Do not drill until directed by the Engineer. Include the following:

Type of vibration or air-blast recording station used and instrument identification numbers.

Name of vibration specialist observing the blast and interpreting vibration and air-blast data;

Blast identification number and location of blast;

Distance and direction of ground vibration and air-blast over-pressure recording stations from the blast area;

Type of material ground vibration recording stations were sitting on at the time of the blast;

Maximum applicable charge weight per delay;

Peak displacement, particle velocity and frequency recorded at each ground vibration sensor location;

Peak over-pressure recorded at each air-blast sensor location;

Dated and signed copy of all instrument records;

Post-blast condition survey noting changes from the pre-blast survey; and

Comments on success of the blast in terms of adherence to established ground vibration or air-blast criteria and management practices.

When failing to meet ground vibration and air-blast criteria and management objectives, submit proposed changes to future site-specific blasting plans that will produce acceptable results.

2.2.8.2. Close-out. Submit a written statement signed by the blaster-in-charge certifying:

Blastholes loaded with explosive material have been either detonated or unloaded and disposed of properly; and Blasting is complete and explosive material has been removed from the project site.

DESIGN

STATE OF TEXAS
R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

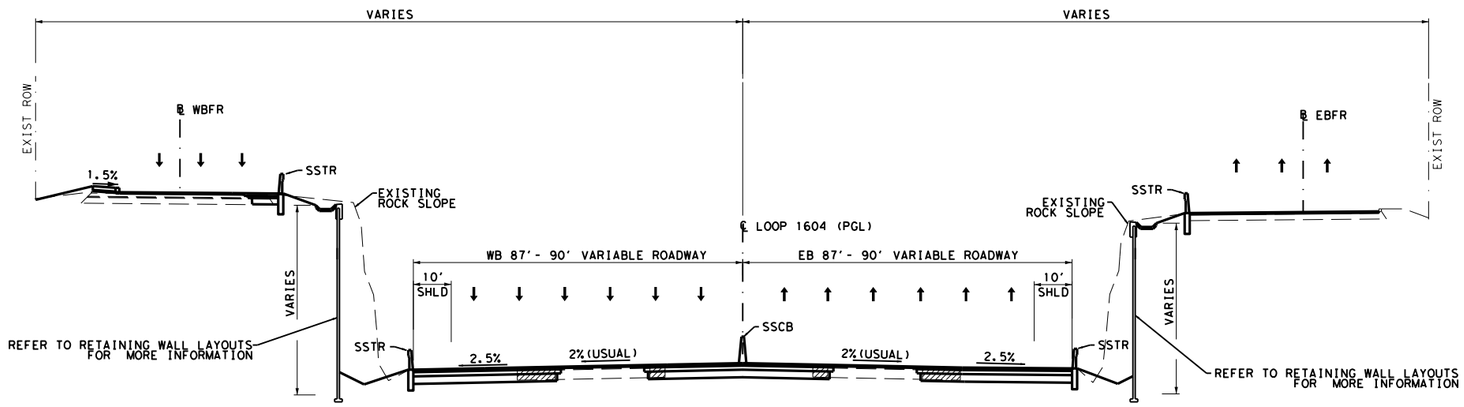
LJA Engineering, Inc.
FRN - F-1386

LP 1604

SPECIAL EXCAVATION DETAIL

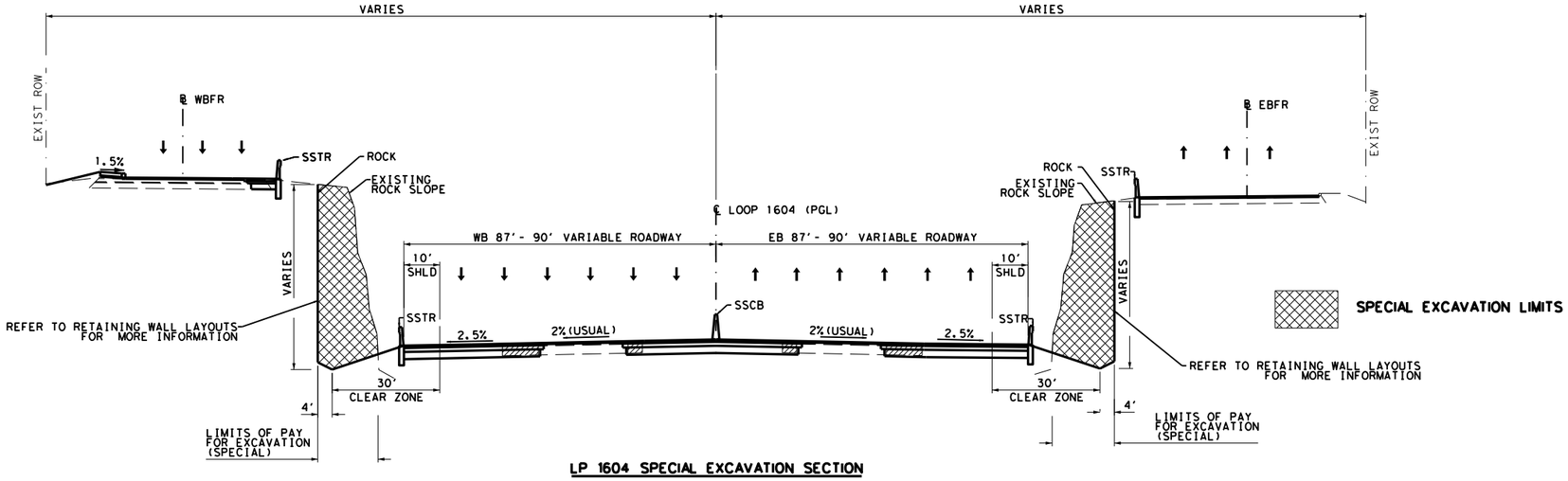
SHEET 1 OF 5

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	986



LP 1604 SPECIAL EXCAVATION SECTION

STA 4513+00 TO STA 4524+00



LP 1604 SPECIAL EXCAVATION SECTION

STA 4524+00 TO STA 4534+00

DESIGN

R. MATTHEW ESTES
101558
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

R. MATTHEW ESTES, P.E. — 2/28/2023 DATE

REVIEW AND APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

JAMES A. LUTZ, P.E. — 2/28/2023 DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LJA Engineering, Inc.
FRN - F-1386

LP 1604

SPECIAL EXCAVATION DETAIL

SHEET 5 OF 5

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS				LP1604
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	2452	02	130, ETC	987