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

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

 $\square \circ \square$

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

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

> FERDERAL AID PROJECT PROJECT NO: BEXAR COUNTY

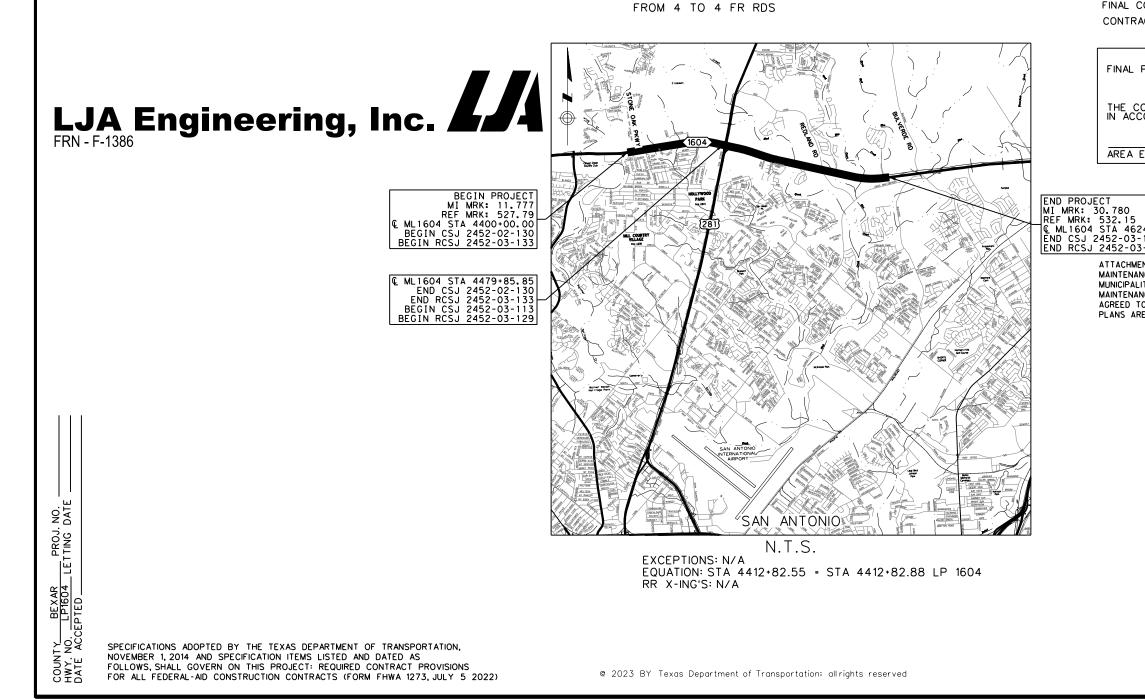
> > SL 1604

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

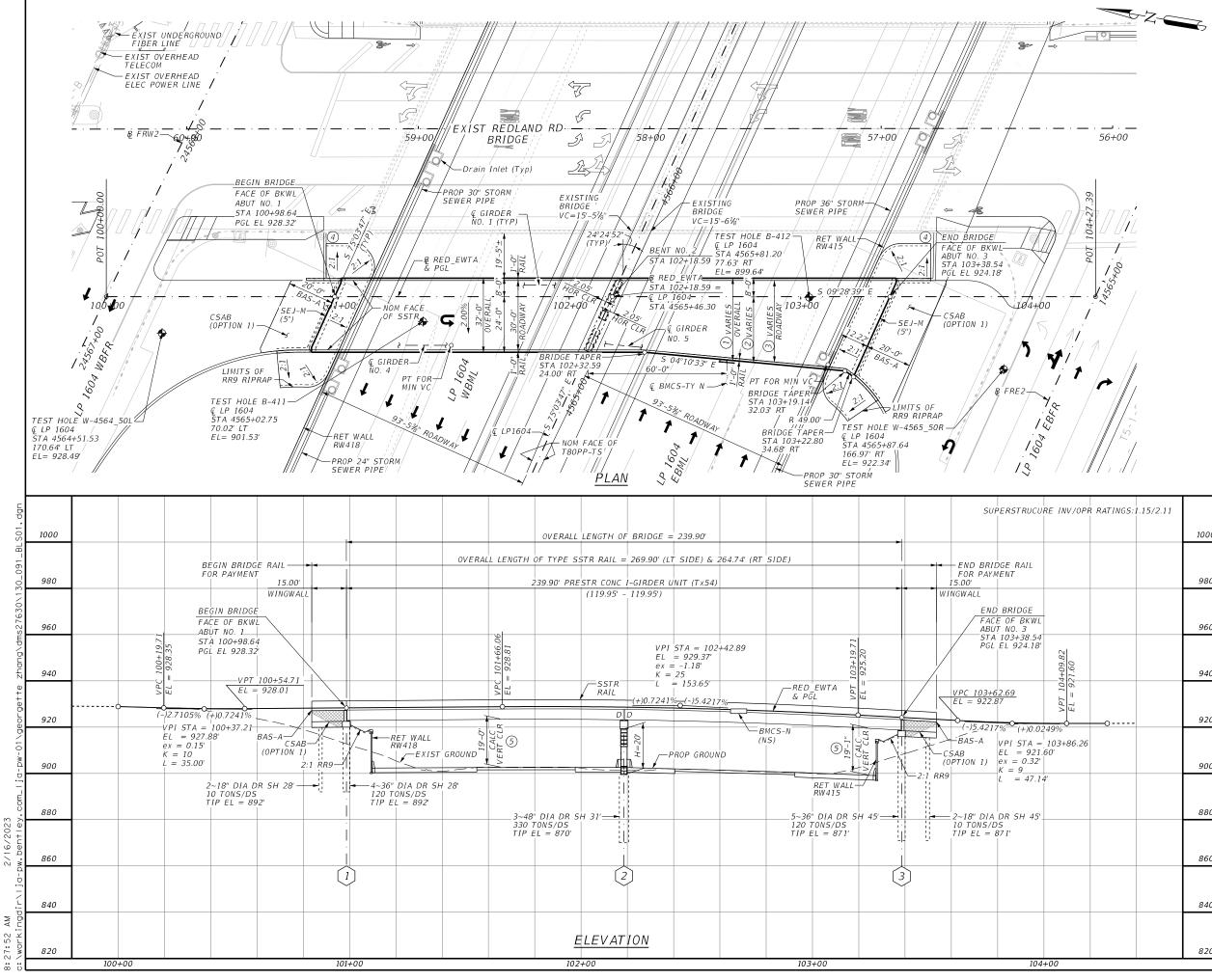
FOR WORK CONSISTING OF EXPAND 4 TO 10 LANE

EXPRESSWAY-INCLUDING 2 HOV-SPECIAL USE LANES;

235,300 - () FUNCTIONAL REGISTERED ACC



		DIST	PROJECT	NO	SHEET NO.
CCSJ 2452-02-130		15	FROJEC	NO.	1
SL 1604		STATE	DIST	COL	JNTY
DESIGN SPEED		TEXA			XAR
MAINLANES - 60 mph FRONTAGE ROADS - 45 mph		CONT SE			HIGHWAY
RAMP = 35 mph		2452 0	2 130,	ETC SL	1604,ETC
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					
RED ACCESSIBILITY SPECIALI	ST (RAS) IN	NSPE	CTION	REO	UIRED
					0
TDLR	NU.				
ACCESSIBILITY ST	ANDARDS =	PRO	WAG		
<u>F INAL</u>	<u>_ PLANS</u>				
LETTING DATE:					
DATE CONTRACTOR BEGAN WORK:					
DATE WORK WAS ACCEPTED:					
DATE WORK WAS ACCEPTED:					
DATE WORK WAS COMPLETED:					
FINAL CONTRACT COST: \$					
CONTRACTOR:					
FINAL PLANS STATEMENT:					
THE CONSTRUCTION WORK WAS PE	RFORMED				
IN ACCORDANCE WITH THE PLANS:					
	c				
AREA ENGINEER	. <u>E.</u> DATE				
	TMENT OF TRA		TATION		
IEXAS DEPAR	INENT OF TRAI	NOPOR	TATION		
ROJECT K: 30.780					
RK: 532.15					
604 STA 4624+00.00 SJ 2452-03-113					
ČŠJ 2452-03-129					
ATTACHMENT NO. 01-22 TO SPECIAL AGREEME					
MAINTENANCE, AND OPERATIONS OF HIGHWAY I MUNICIPALITY, DATED JUNE 24, 2014. THE CITY			4		
MAINTENANCE AND OPERATION RESPONSIBILITIE			RE		
AGREED TO, ACCEPTED, AND SPECIFIED IN THE					
PLANS ARE MADE A PART.					
	CONCURRENCE				
	CITY	Y OF SA	N ANTON	0	
	RECOMMENDED FOR		6.		
	NECONMENDED FOR		••	L	
		PLAN F			
	RECOMMENDED FOR	LETTIN	G:		
	TRANS	PORTAT	ION ENGIN	EER	
				[
	RECOMMENDED FOR		G:		
	NECONNIENDED FUR		••	ι <u> </u>	
		R 05 TF	RANSPORT		
			DEVELOPI		
	APPROVED FOR LE	T T ING:			
	DI	STRICT	ENGINEER		



GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION (2020) AND TXDOT BRIDGE DESIGN MANUAL (NOV 2021).

GIRDER END CONDITIONS: D: DENOTES DOWEL AT EXTERIOR GIRDERS BLANK: DENOTES NO DOWEL

THE "H" VALUES SHOWN ARE ESTIMATED COLUMN HEIGHTS. CONTRACTOR IS RESPONSIBLE FOR CALCULATING ACTUAL COLUMN HEIGHTS BASED ON FIELD CONDITIONS.

SEE AESTHETIC DETAILS SHEETS FOR SAN ANTONIO DISTRICT "HILL COUNTRY REGION" AESTHETIC TREATMENT DETAILS.

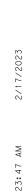
SEE BRIDGE TYPICAL SECTIONS SHEET FOR BRIDGE TYPICAL SECTIONS.

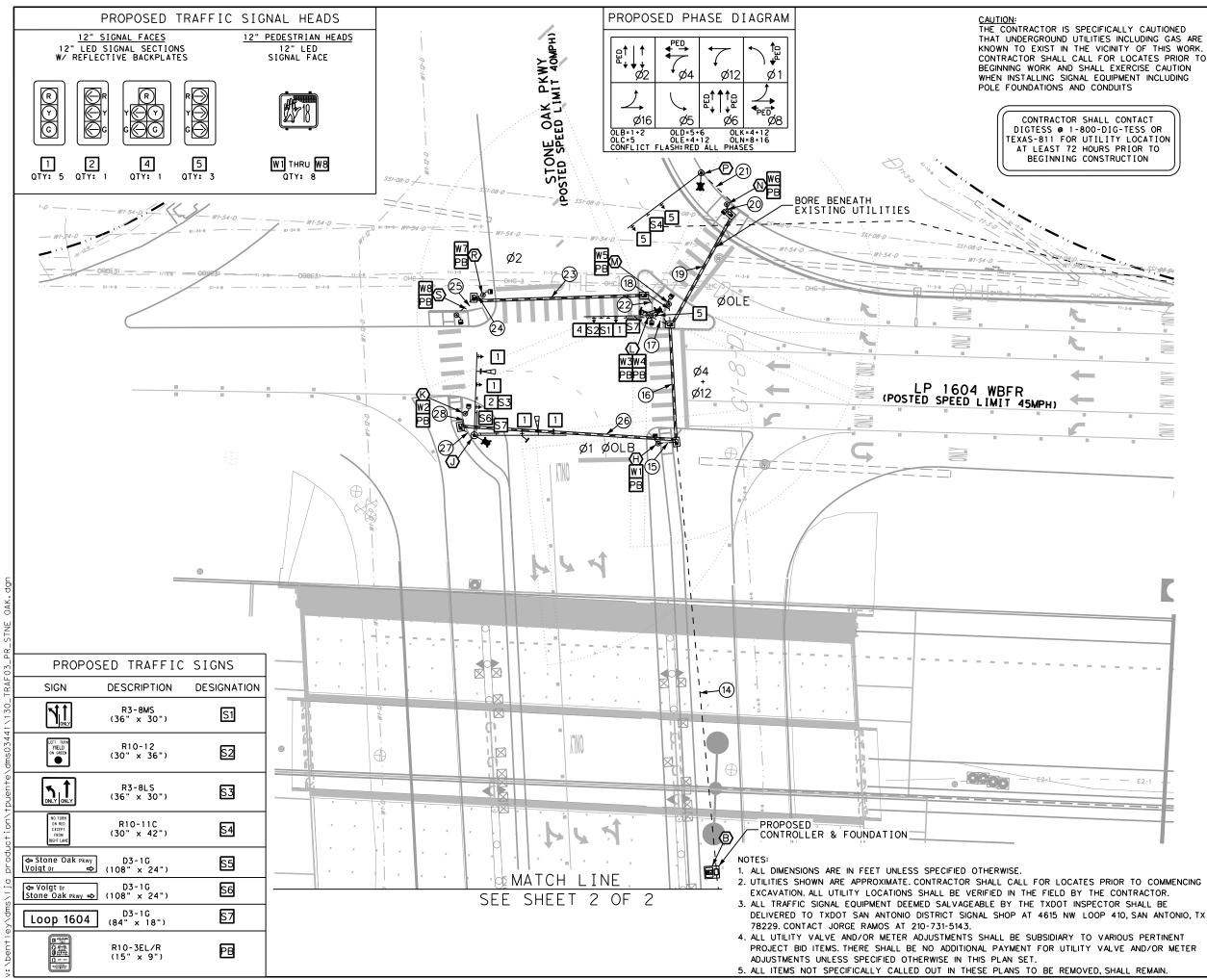
- 1) VARIES 42'-8¼" TO 32'-0"
- 2 VARIES 34'-81/4 " TO 24'-0"
- (3) VARIES 40'-9" TO 30'-0"
- (4) CONTRACTOR TO REMOVE AND REPLACE EXISTING RIPRAP AS NEEDED. MATCH ROADWAY RIPRAP AS NEEDED.
- (5) EXISTING BRIDGE WBML VC=15'-5%", EBML VC=15'-6%". SEE PLAN VIEW FOR LOCATIONS.

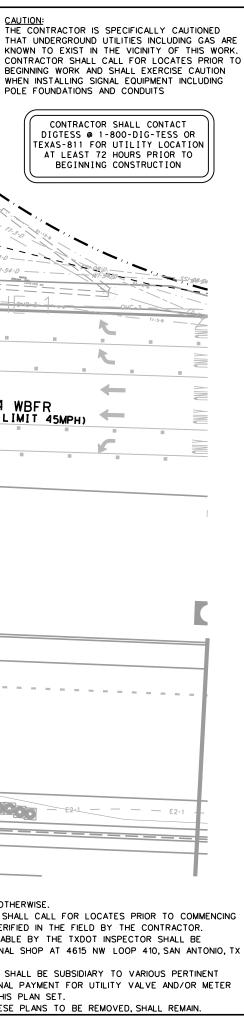
PROPOSED NBI NUMBER: 15-015-0-2452-03-315 FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL DESIGN SPEED: 10 MPH ADT (2025): 5,250 VPD ADT (2045): 5,900 VPD

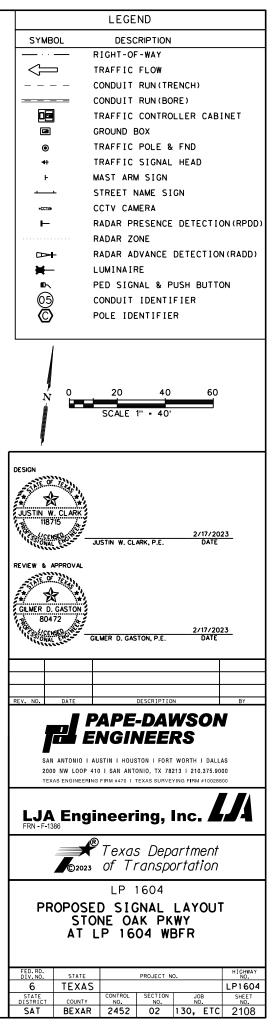
HL93 LOADING

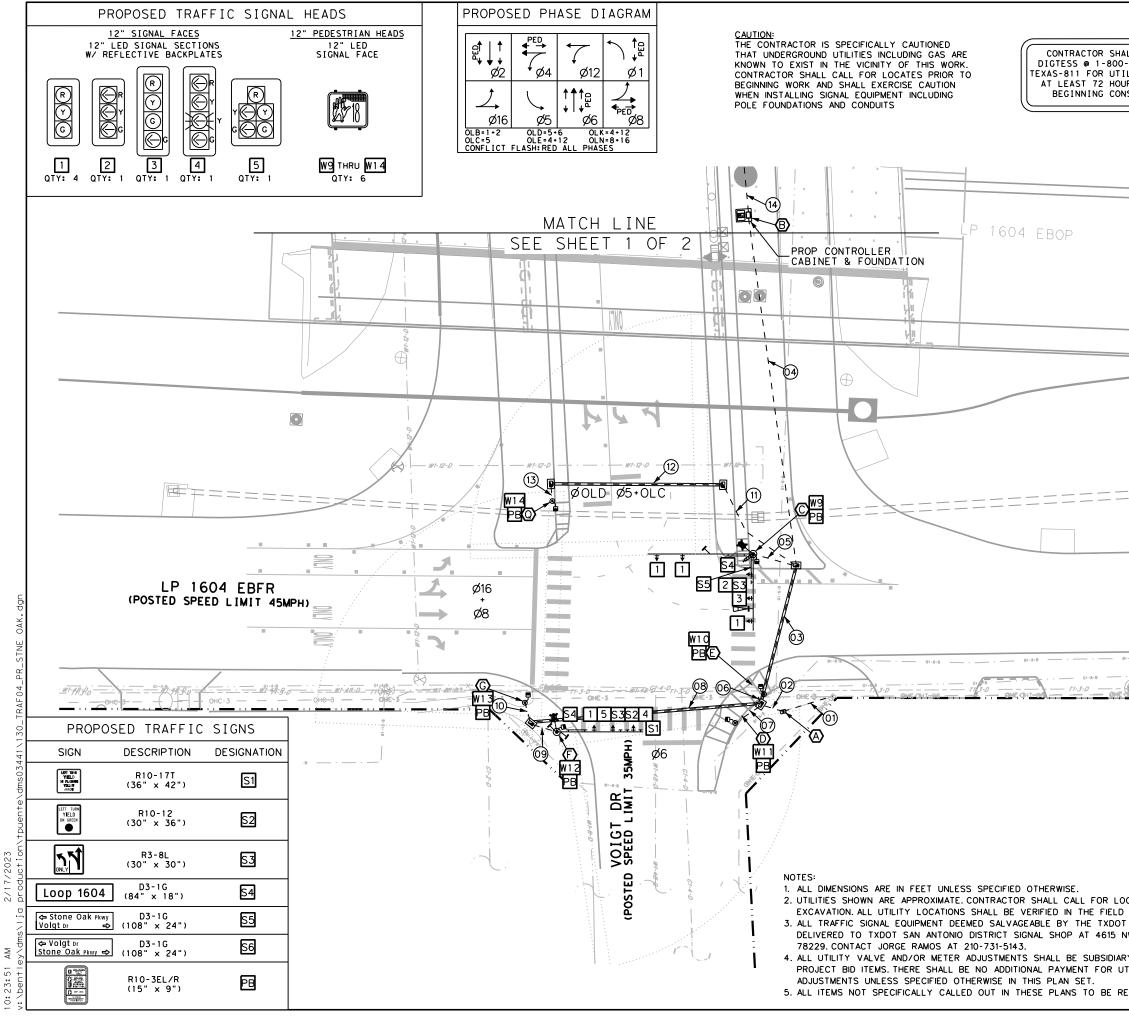
R RATINGS:1.15/2.11		
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	980	DAVID N. PRETORIUS
	960	23 130358 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5
	940	2.17.2023 0' 10' 20' 40' SCALE: 1"=40'
0	920	REV. NO. DATE DESCRIPTION BY
5	900	LJA Engineering, Inc.
	880	FRN-F-1386 Texas Department C2023 of Transportation
	860	LP 1604
	840	BRIDGE LAYOUT LP 1604 UNDERPASS AT REDLAND RD EAST TO WEST TURNAROUND
	820	DESIGNED: HC FED.RD. DIV.NO. STATE PROJECT NO. HIGHWAY CHECKED: TB 6 TEXAS LP1604 DRAWN: CJ DISTRICT COUNTY NO. NO. NO. NO. CHECKED: TS SAT BEXAR 2452 02 130, ETC 1992
		CHECKED: TS SAT BEXAR 2452 02 130, ETC 1992





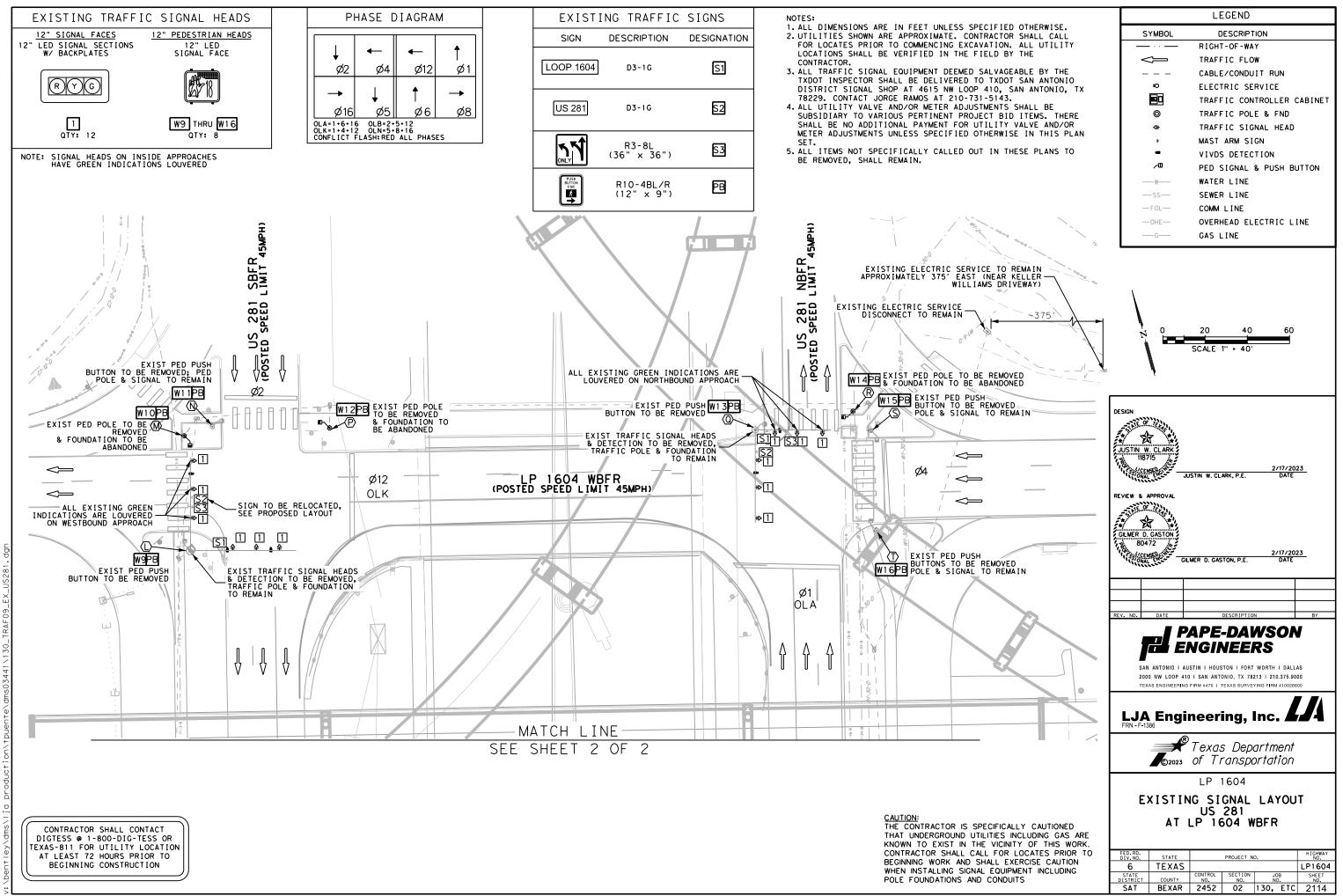




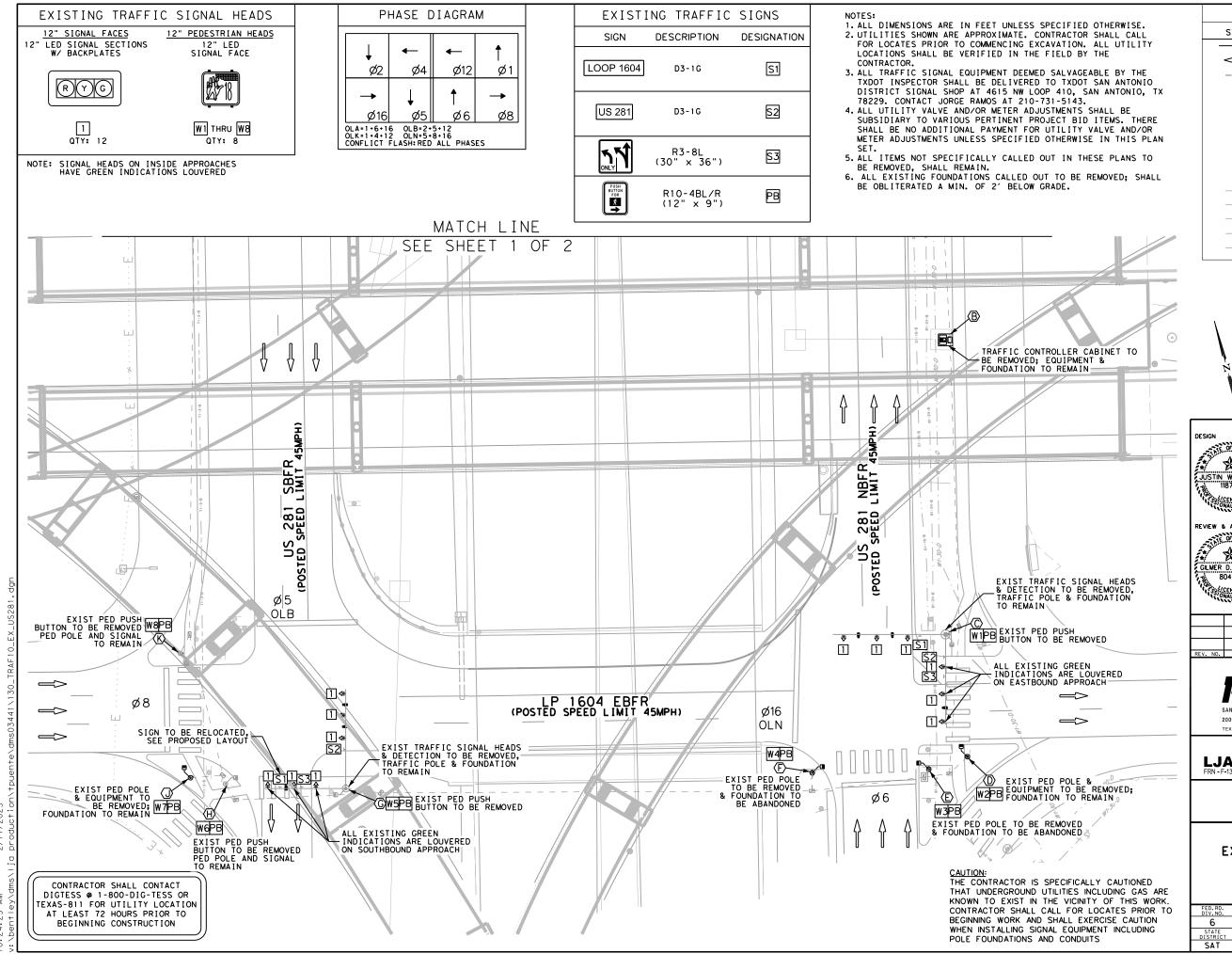


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	LEGEND
	SYMBOL DESCRIPTION
ALL CONTACT	RIGHT-OF-WAY
)-DIG-TESS OR	
URS PRIOR TO	CONDUIT RUN(TRENCH)
	DE TRAFFIC CONTROLLER CABINET
	● IRAFFIC POLE & FND TRAFFIC SIGNAL HEAD
	+ MAST ARM SIGN
	STREET NAME SIGN
	RADAR PRESENCE DETECTION (RPDD)
	RADAR ZONE
	RADAR ADVANCE DETECTION (RADD)
	🖌 LUMINAIRE
	■ PED SIGNAL & PUSH BUTTON
	05 CONDUIT IDENTIFIER
	C POLE IDENTIFIER
	N 0 20 40 60 SCALE 1" - 40'
= = = =	DESIGN UUSTIN W. CLARK JUSTIN W. CLARK JUSTIN W. CLARK, P.E. DATE REVIEW & APPROVAL
81-0-0	GILMER D. GASTON 80472 GILMER D. GASTON, P.E. DATE
<u> </u>	REV. NO. DATE DESCRIPTION BY
	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 #10020800
	LJA Engineering, Inc.
	Texas Department
DCATES PRIOR TO COMMENCING DBY THE CONTRACTOR. T INSPECTOR SHALL BE NW LOOP 410, SAN ANTONIO, TX	LP 1604 PROPOSED SIGNAL LAYOUT STONE OAK PKWY AT LP 1604 EBFR
RY TO VARIOUS PERTINENT JTILITY VALVE AND/OR METER	FED.RD. STATE PROJECT NO. HIGHWAY NO. 6 TEXAS LP1604



AN



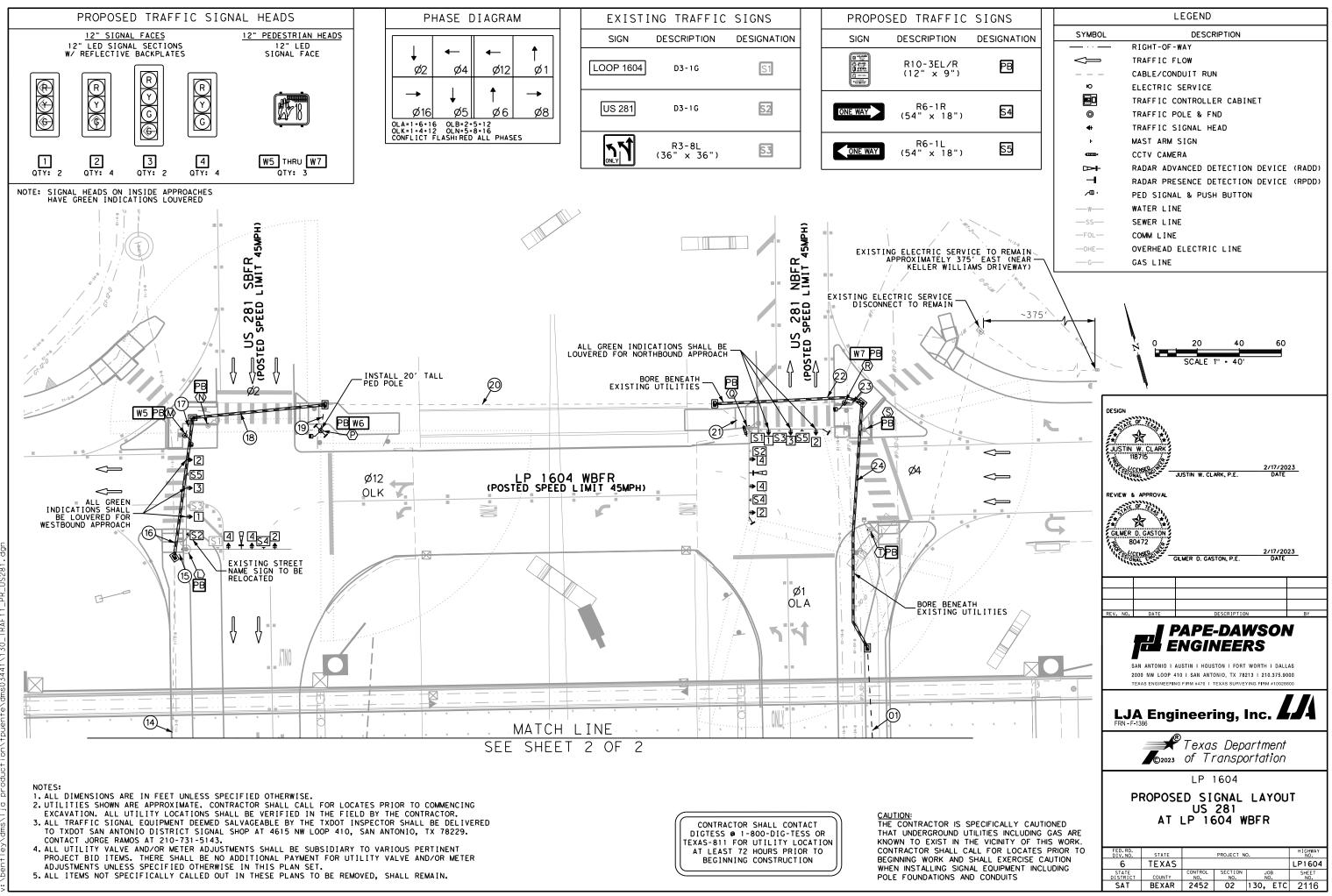
Δ

	LEGEND		
SYMBOL	DESCRIPTION		
·	RIGHT-OF-WAY		
\langle	TRAFFIC FLOW		
	CABLE/CONDUIT RUN		
ю	ELECTRIC SERVICE		
	TRAFFIC CONTROLLER (CABINET	
Ø	TRAFFIC POLE & FND		
⊲ +	TRAFFIC SIGNAL HEAD		
F	MAST ARM SIGN		
-	VIVDS DETECTION		
، ۵ ۰	PED SIGNAL & PUSH B	JTTON	
	WATER LINE		
— SS—	SEWER LINE		
-FOL-	COMM LINE		
-OHE	OVERHEAD ELECTRIC L	INE	
G	GAS LINE		
USTIN W. CLARK	20 40 60 SCALE 1" - 40' 2/17/20 JUSTIN W. CLARK, P.E. DATE 2/17/20 GILMER D. GASTON, P.E. DATE		
V. NO. DATE	DESCRIPTION	BY	
SAN ANTONIO I 2000 NW LOOP	PAPE-DAWSON ENGINEERS AUSTIN I HOUSTON I FORT WORTH I DALL 410 I SAN ANTONIO, TX 78213 I 210.375.90 NG FIRM 470 I TEXAS SURVEVING FIRM #100286	AS 00	
LJA Engineering, Inc.			
	® Texas Department		

Texas Department ©2023 of Transportation

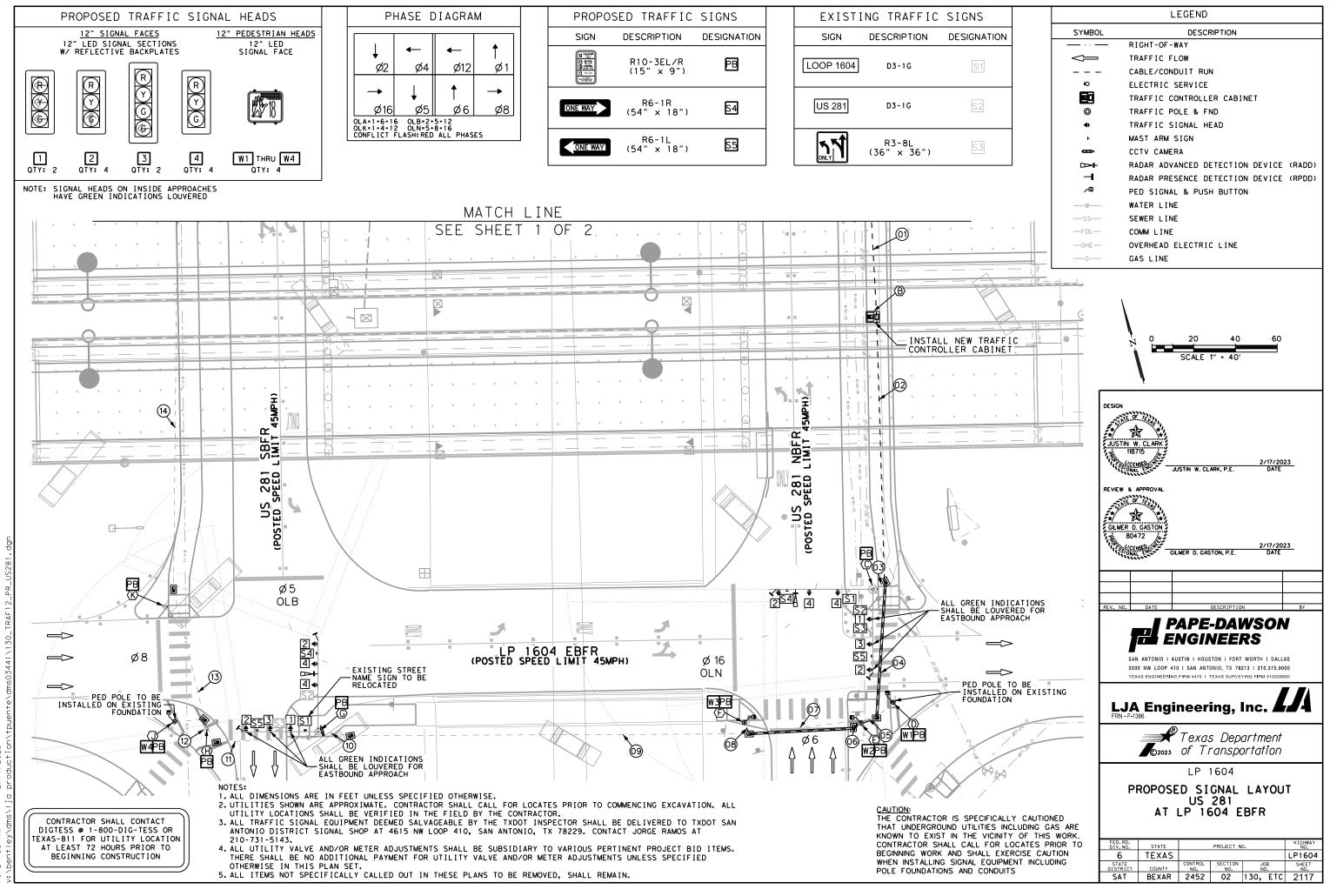
LP 1604 EXISTING SIGNAL LAYOUT US 281 AT LP 1604 EBFR

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	2115

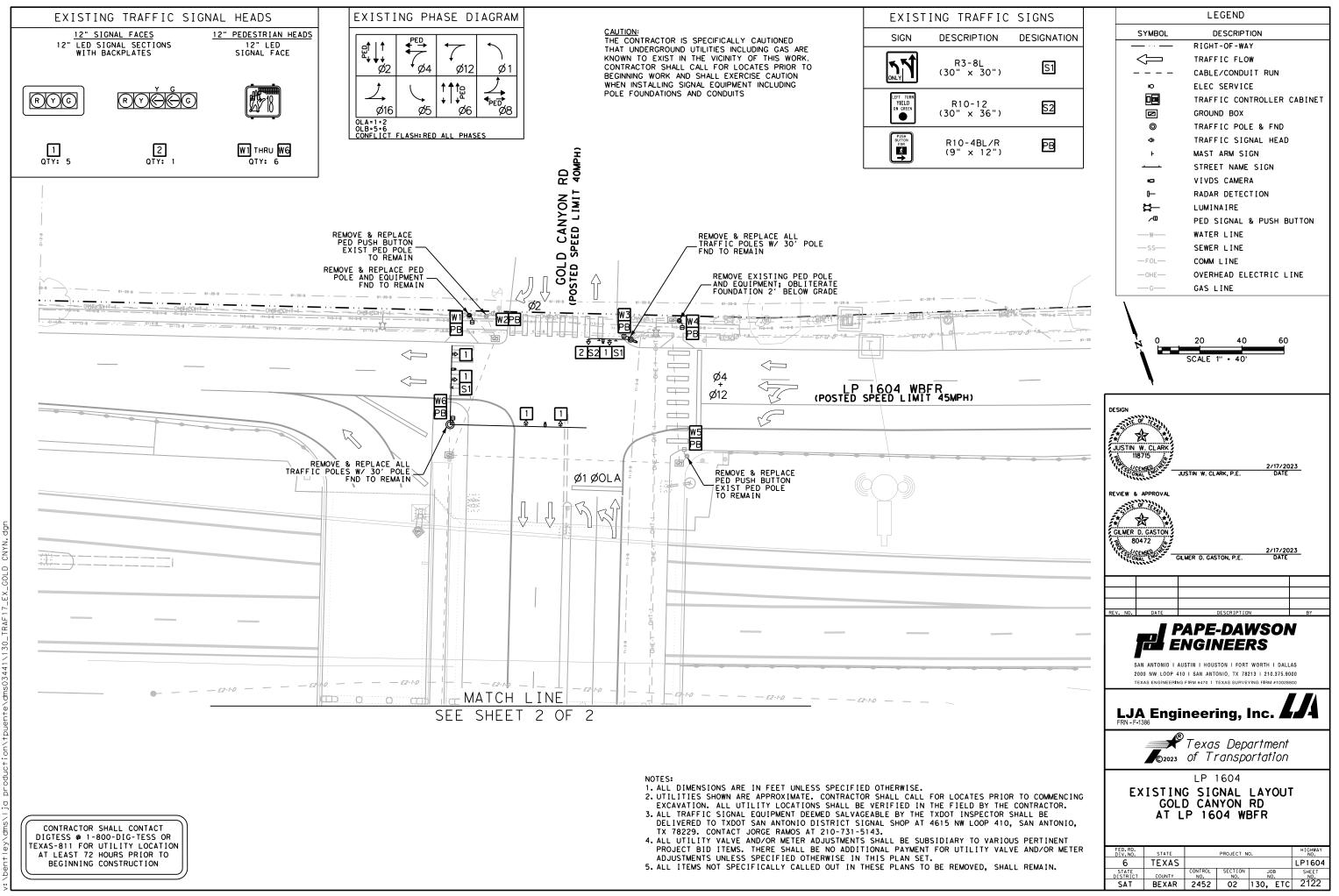


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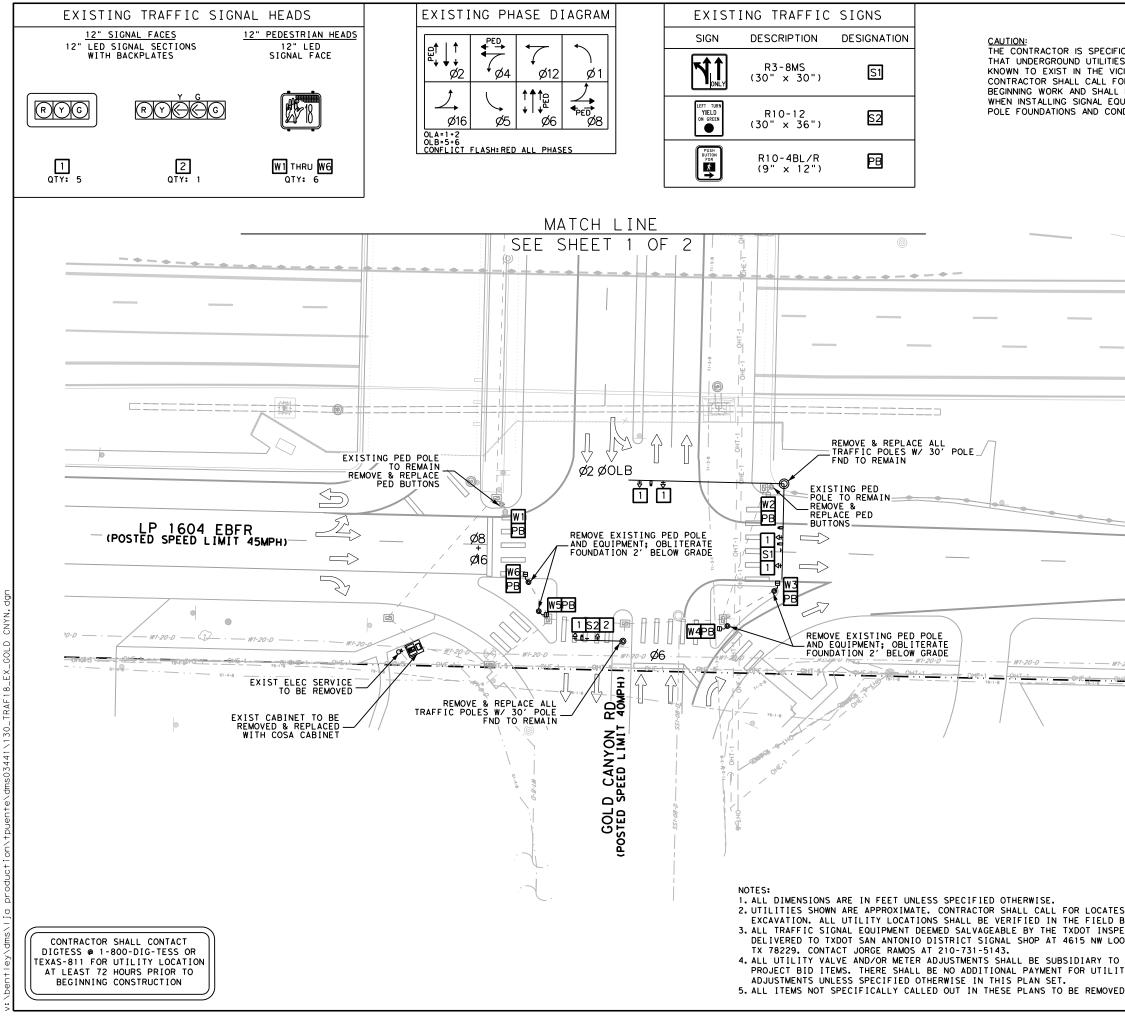


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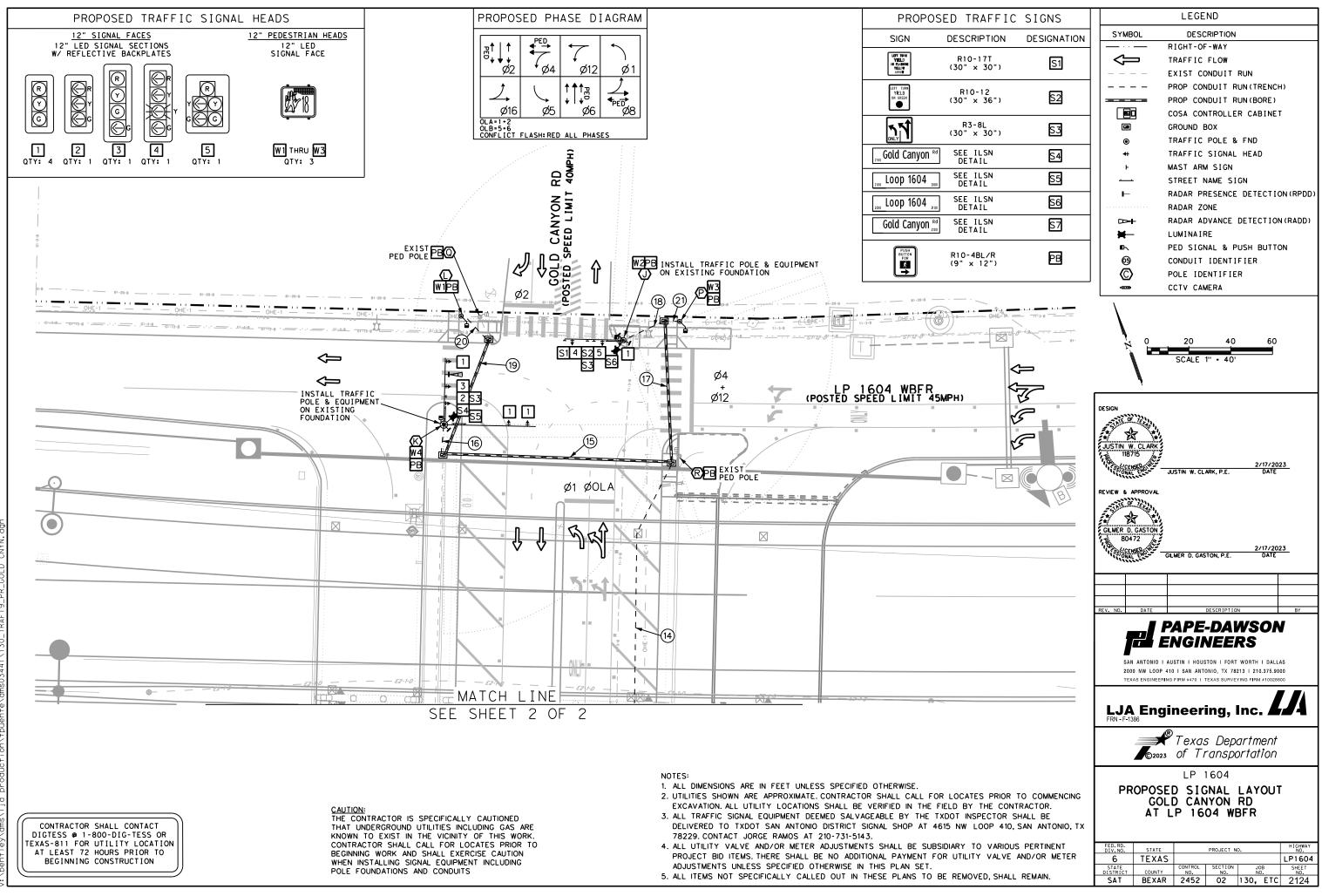
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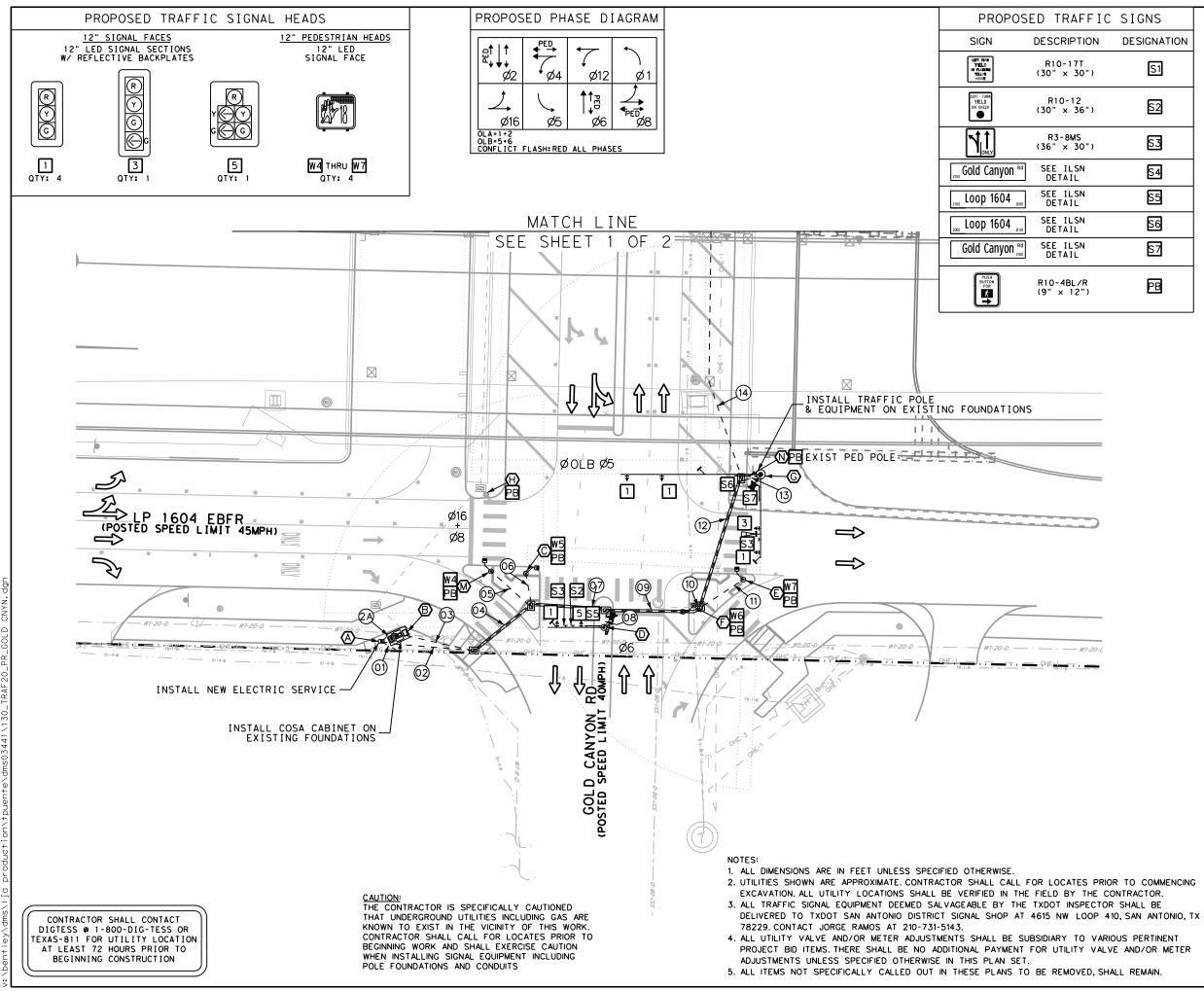


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	SYMBOL DESCRIPTION
FICALLY CAUTIONED IES INCLUDING GAS ARE	
ICINITY OF THIS WORK.	- $ -$ CABLE/CONDUIT RUN
FOR LOCATES PRIOR TO L EXERCISE CAUTION	
QUIPMENT INCLUDING	
ONDUITS	GROUND BOX
	© TRAFFIC POLE & FND
	TRAFFIC FOLL & FND
	+ MAST ARM SIGN
	✓ PED SIGNAL & PUSH BUTTON
	-FOL- COMM LINE
	— OHE — OVERHEAD ELECTRIC LINE — G — GAS LINE
	GAS LINE
	1 0 20 40 60
	SCALE 1" - 40'
	DESIGN
	118715
	JUSTIN W. CLARK, P.E. DATE
	REVIEW & APPROVAL
	REVIEW & APPROVAL
	CILMER D. GASTON
	GLINER D. CASTON 80472 4/07/2023
	GILMER D. GASTON 80472
1-20-0	GLINER D. CASTON 80472 4/07/2023
	GLINER D. CASTON 80472 4/07/2023
	GLINER D. CASTON 80472 4/07/2023
	CILMER D. CASTON 80472 GILMER D. GASTON, P.E. DATE REV. NO. DATE
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	GLUMER D. CASTON 80472 GLMER D. GASTON, P.E. DATE REV. NO. DATE
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	2/17/2023 CILMER D. GASTON, P.E. 2/17/2023 OLIMER D. GASTON, P.E. DATE REV. NO. DATE DESCRIPTION BY SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 200 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
	CILIER D. CASTON B0472
	2/17/2023 SOUTZ CILMER D. GASTON, P.E. DATE REV. NO. DATE DESCRIPTION BY DATE DESCRIPTION BY DATE DESCRIPTION BY DATE DATE DESCRIPTION BY DATE
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	CELINER D. GASTON BO472 CELINER D. GASTON, P.E. DATE CELINER D. GASTON, P.E. DATE REV. NO. DATE DESCRIPTION BY 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 #10026800 LJA Enggineering, Inc. FRN-F-1386 Texas Department of Transportation LP 1604
	2/17/2023 2/17/2023 CILMER D. GASTON, P.E. DATE CILMER D. GASTON, P.E. DATE REV. NO. DATE DESCRIPTION BEREFEDARYSON 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 #10028800 LJA Engineering, Inc. LJA Engineering, Inc. FRN-F-1386 Texas Department of Transportation LP 1604 EXISTING SIGNAL LAYOUT
S PRIOR TO COMMENCING BY THE CONTRACTOR.	2/17/2023 2/17/2023 SOUNTS COLMER D. GASTON, P.E. DATE DATE REV. NO. DATE DESCRIPTION BY DATE DATE <t< td=""></t<>
ES PRIOR TO COMMENCING BY THE CONTRACTOR. PECTOR SHALL BE	2/17/2023 2/17/2023 CILMER D. GASTON, P.E. DATE CILMER D. GASTON, P.E. DATE REV. NO. DATE DESCRIPTION BEREFEDARYSON 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 #10028800 LJA Engineering, Inc. LJA Engineering, Inc. FRN-F-1386 Texas Department of Transportation LP 1604 EXISTING SIGNAL LAYOUT
ES PRIOR TO COMMENCING BY THE CONTRACTOR. PECTOR SHALL BE DOP 410, SAN ANTONIO,	CELKER D. GASTON B0472 COLMER D. GASTON, P.E. DATE CLIMER D. GASTON, P.E. DATE DESCRIPTION BY COLMER D. GASTON, P.E. DESCRIPTION BY COLMER D. GASTON, P.E. DESCRIPTION BY COLMER D. GASTON COLMER D. GANYO
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10:25:17 AM



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)")	53
I	S4
I	S5
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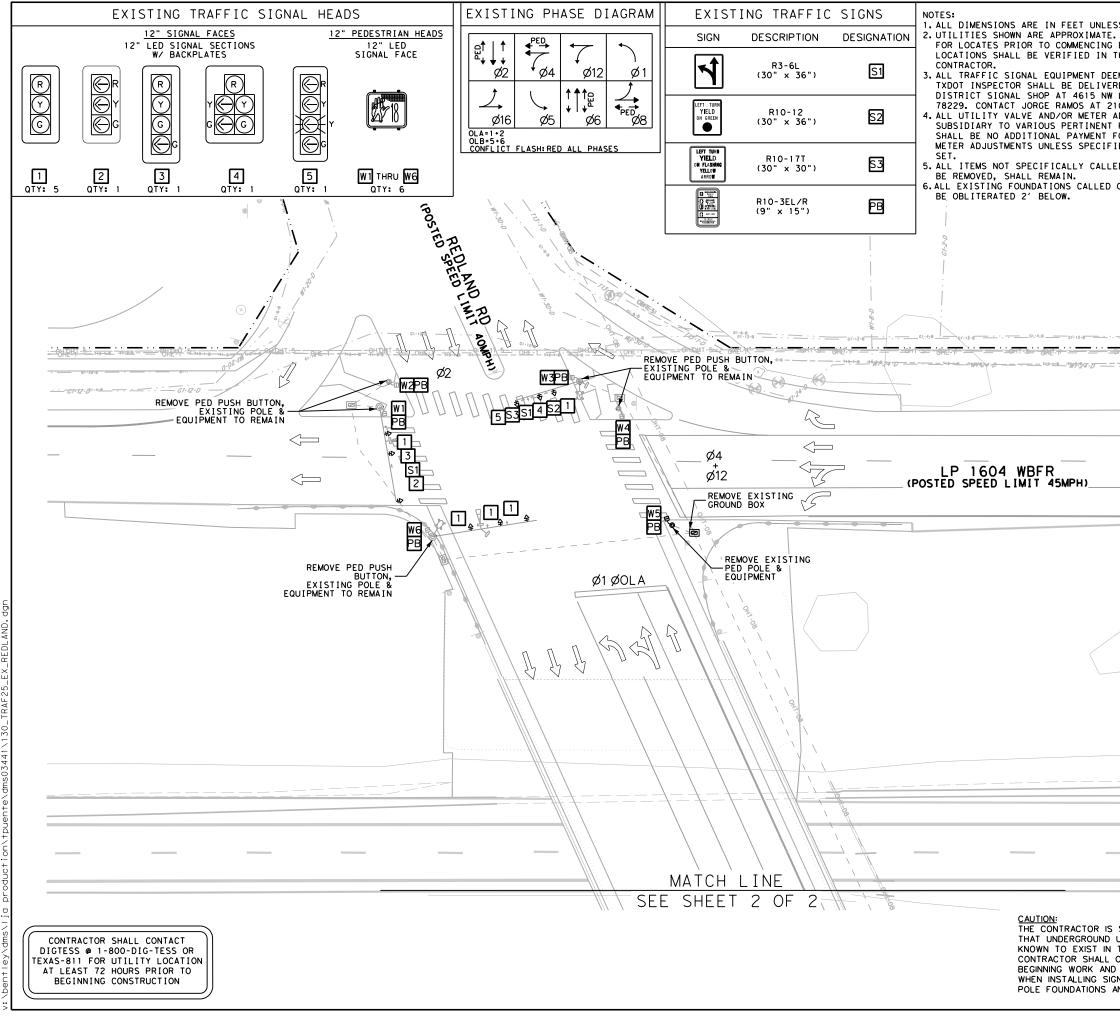
		LEGEND			
SYMBOL		DESCRIPTION			
		IGHT-OF-WAY			
		RAFFIC FLOW XIST CONDUIT RUN			
		ROP CONDUIT RUN (TRENCH	4)		
		ROP CONDUIT RUN(BORE)			
	C	OSA CONTROLLER CABINE	r		
	G	ROUND BOX			
۲		RAFFIC POLE & FND			
4 +		RAFFIC SIGNAL HEAD			
		AST ARM SIGN TREET NAME SIGN			
		ADAR PRESENCE DETECTION	ON (RPDD)		
		ADAR ZONE			
⊳+	R	ADAR ADVANCE DETECTION	(RADD)		
₩-	L	UMINAIRE			
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REVIEW & APPR	OVAL				
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<i></i>					
GILMER D. GAS	TON				
CENSER:		2/17/20	23		
CONAL EN	GIL	MER D. GASTON, P.E. DATE			
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		NGINEERS			
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		STIN I HOUSTON I FORT WORTH I DALL I SAN ANTONIO, TX 78213 I 210.375.90			
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LJA E	İngiı	neering, Inc.			
FRN - F-1386					
_	R	Texas Department			
Co2023 of Transportation					
	LP 1604				
	GOL	D SIGNAL LAYOUT D CANYON RD			
	AT L	P 1604 EBFR			
FED. RD. DIV. NO.	CT. TC		HIGHWAY NO.		
	STATE EXAS	PROJECT NO.	LP1604		

6

COUNTY

 DISTRICT
 COUNTY
 NO.
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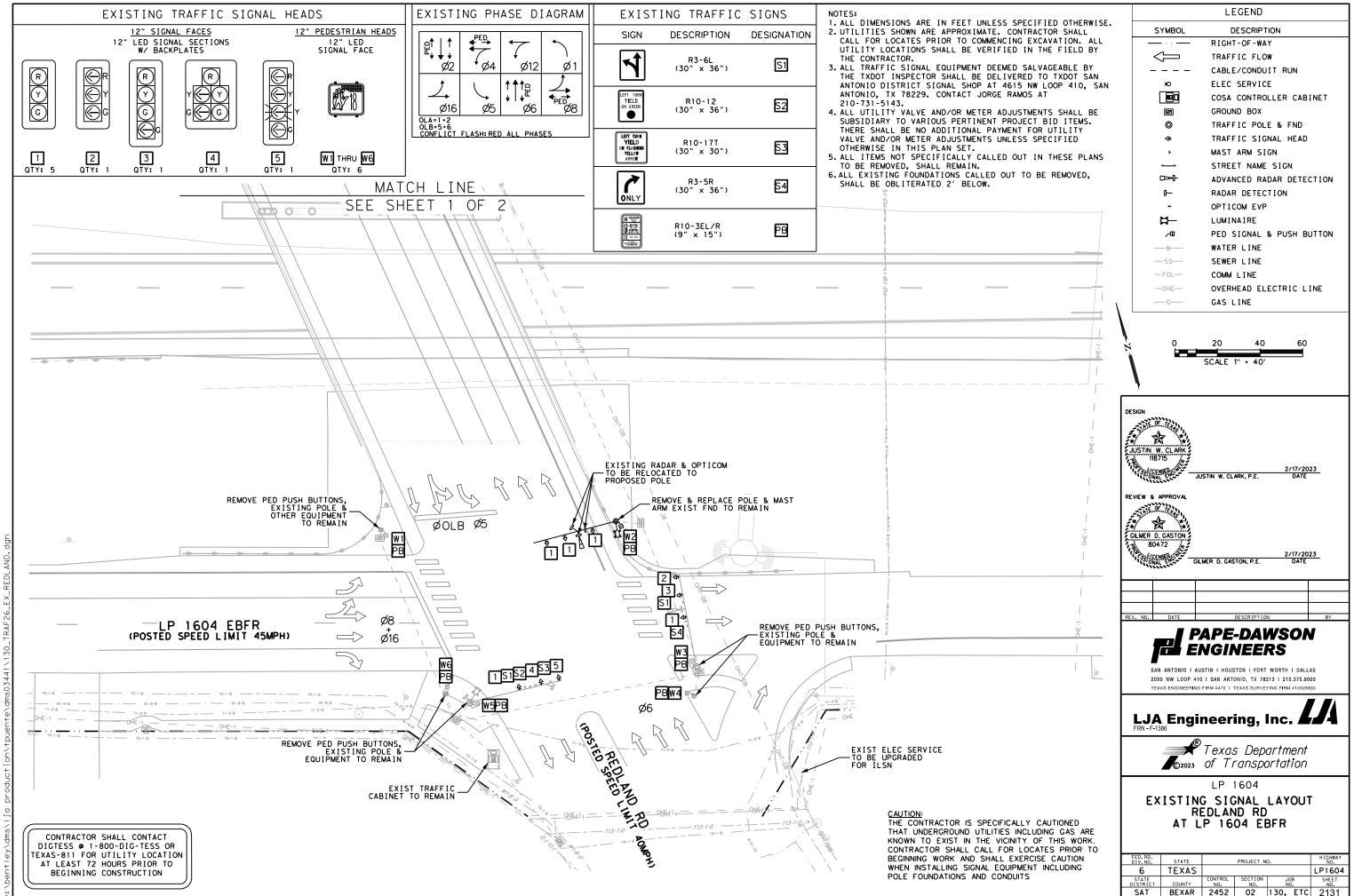
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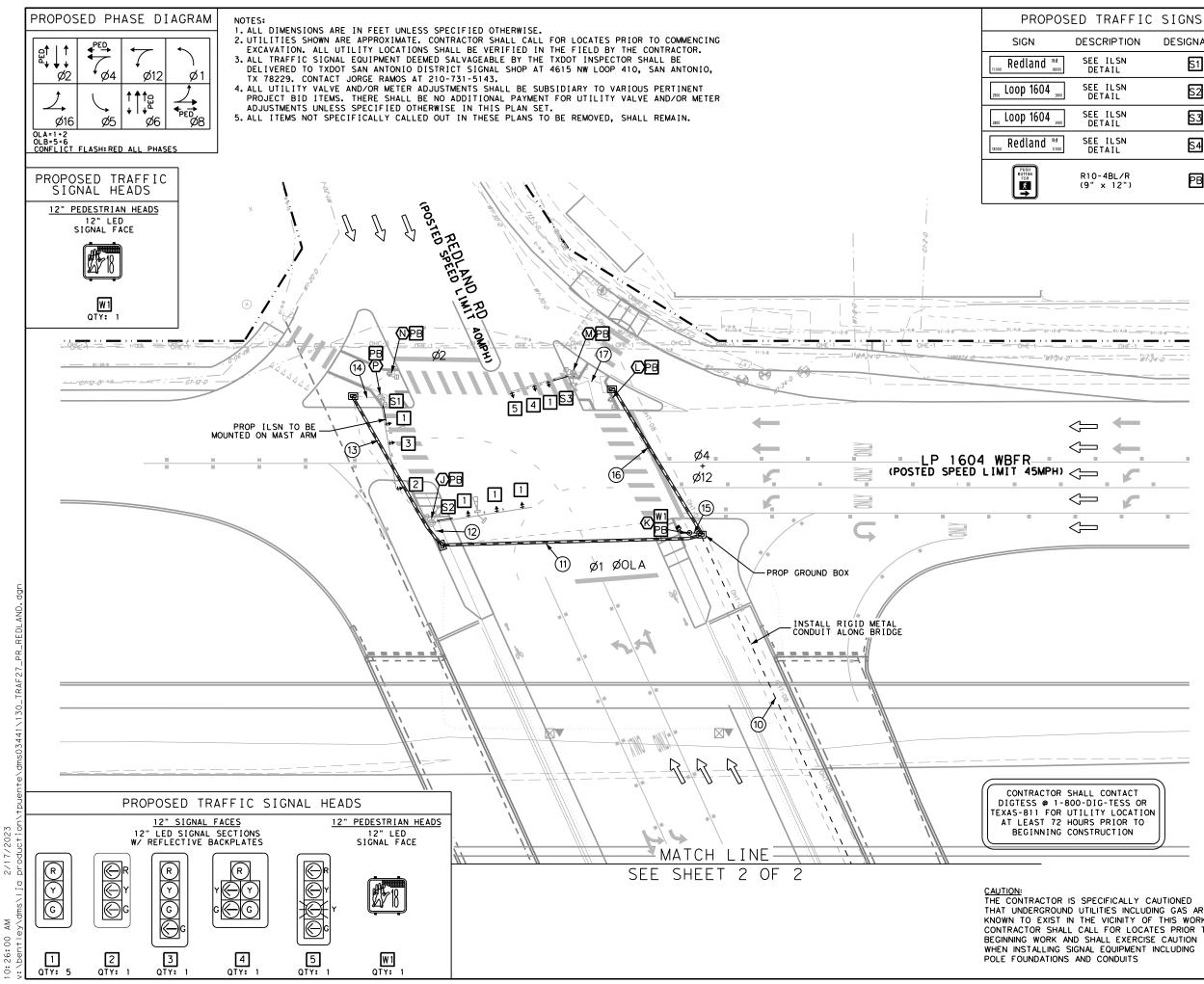
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	LEGEND
ESS SPECIFIED OTHERWISE. E. CONTRACTOR SHALL CALL	SYMBOL DESCRIPTION
G EXCAVATION. ALL UTILITY	
THE FIELD BY THE	TRAFFIC FLOW
EEMED SALVAGEABLE BY THE	CABLE/CONDUIT RUN
ERED TO TXDOT SAN ANTONIO W LOOP 410, SAN ANTONIO, TX	∞ ELEC SERVICE
210-731-5143.	COSA CONTROLLER CABINET
ADJUSTMENTS SHALL BE T PROJECT BID ITEMS. THERE	CROUND BOX
FOR UTILITY VALVE AND/OR FIED OTHERWISE IN THIS PLAN	TRAFFIC POLE & FND
	↔ TRAFFIC SIGNAL HEAD
LED OUT IN THESE PLANS TO	► MAST ARM SIGN
D OUT TO BE REMOVED, SHALL	STREET NAME SIGN
	ADVANCE RADAR DETECTION
	I− RADAR DETECTION
	+ OPTICOM EVP
	✓□ PED SIGNAL & PUSH BUTTON
	-FOL- COMM LINE
	-OHE- OVERHEAD ELECTRIC LINE
61-12-8	GAS LINE
#1-29-U ·	0 30 40 50
N	
	SCALE 1" - 40'
	DESIGN
	JUSTIN W. CLARK
	118715
	JUSTIN W. CLARK, P.E. DATE
	REVIEW & APPROVAL
	-TE OF TOTAL
	GILMER D. GASTON
	13 80472 <u>5</u>
	GILMER D. GASTON, P.E. DATE
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	E 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.
	LJA Engineering, Inc.
	<u>(</u> R)
	─ ── ♥ Texas Department
	Texas Department
	©2023 of Transportation
	©2023 of Transportation LP 1604
	LP 1604 EXISTING SIGNAL LAYOUT
	LP 1604 EXISTING SIGNAL LAYOUT REDLAND RD
S SPECIFICALLY CAUTIONED D UTILITIES INCLUDING GAS ARE	LP 1604 EXISTING SIGNAL LAYOUT
D UTILITIES INCLUDING GAS ARE N THE VICINITY OF THIS WORK.	LP 1604 EXISTING SIGNAL LAYOUT REDLAND RD AT LP 1604 WBFR
D UTILITIES INCLUDING GAS ARE N THE VICINITY OF THIS WORK. _ CALL FOR LOCATES PRIOR TO - ND SHALL EXERCISE CAUTION	LP 1604 EXISTING SIGNAL LAYOUT REDLAND RD AT LP 1604 WBFR
D UTILITIES INCLUDING GAS ARE N THE VICINITY OF THIS WORK. CALL FOR LOCATES PRIOR TO ND SHALL EXERCISE CAUTION GIGNAL EQUIPMENT INCLUDING	EXISTING SIGNAL LAYOUT REDLAND RD AT LP 1604 EXISTING SIGNAL LAYOUT REDLAND RD AT LP 1604 WBFR
D UTILITIES INCLUDING GAS ARE N THE VICINITY OF THIS WORK. _ CALL FOR LOCATES PRIOR TO - ND SHALL EXERCISE CAUTION	EXISTING SIGNAL LAYOUT REDLAND RD AT LP 1604 WBFR

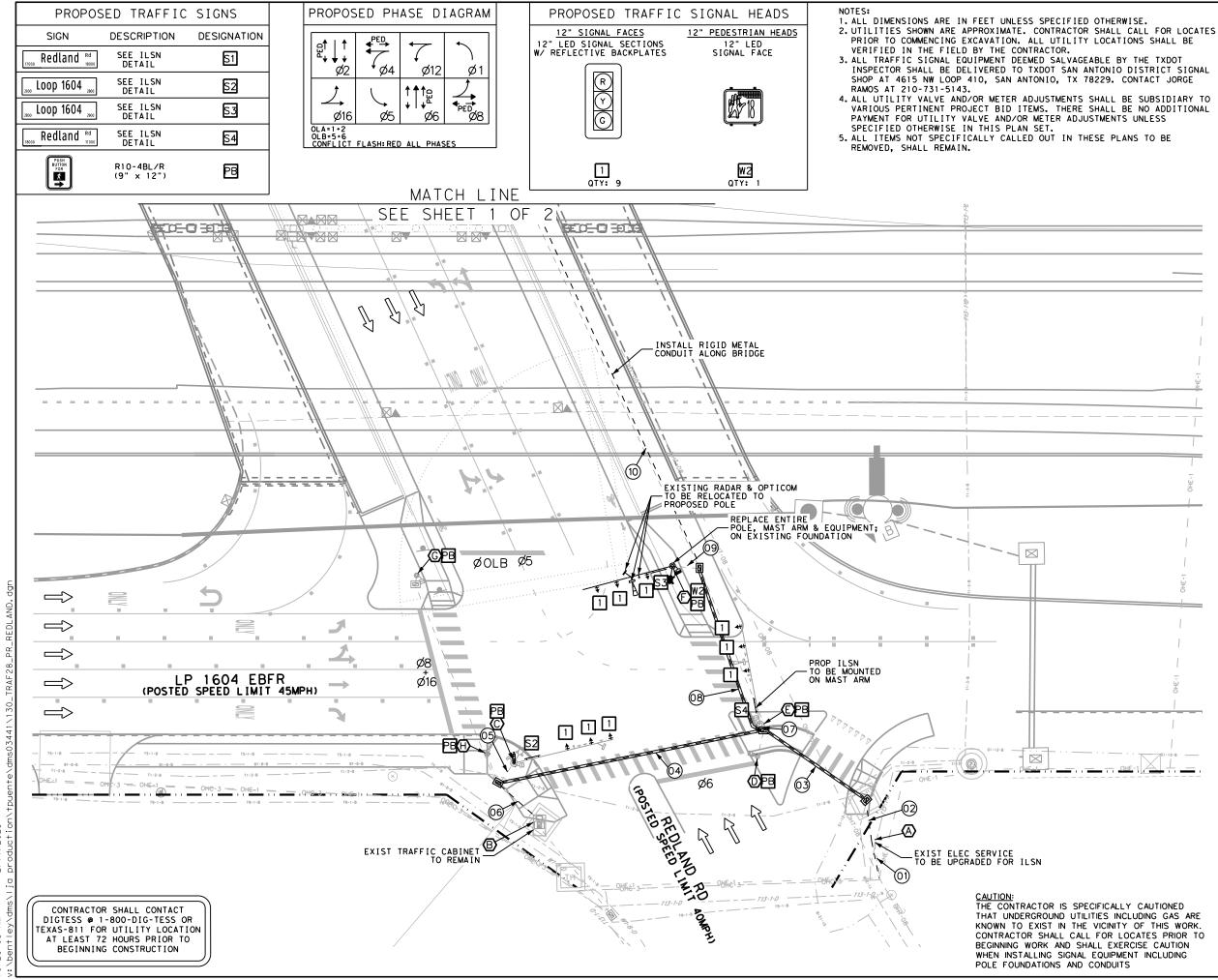


25:52 AM 2/17/2023



D TRAFFIC	SIGNS		LEGEND
ESCRIPTION	DESIGNATION	SYMBOL	DESCRIPTION RIGHT-OF-WAY
SEE ILSN DETAIL	51		TRAFFIC FLOW
SEE ILSN DETAIL	52		CONDUIT RUN (TRENCH) CONDUIT RUN (BORE)
SEE ILSN	53		ILSN SIGN
DETAIL SEE ILSN			LUMINAIRE COSA CONTROLLER CABINET
DETAIL	54		GROUND BOX
R10-4BL/R (9" x 12")	РВ	© ∢+	TRAFFIC POLE & FND TRAFFIC SIGNAL HEAD
		F	MAST ARM SIGN
			RADAR PRESENCE DETECTION (RPDD) RADAR ADVANCE DETECTION (RADD)
		+	OPTICOM EVP
		05	PED SIGNAL & PUSH BUTTON CONDUIT IDENTIFIER
		Ŏ	POLE IDENTIFIER
			CCTV
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			20 40 60
			SCALE 1" - 40'
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-	(DESIGN	
		JUSTIN W. CLARK	
		118715 (CENSE)	2/17/2023 JUSTIN W. CLARK, P.E. DATE
		REVIEW & APPROVAL	
		A STREET, STRE	
		GILMER D. GASTON	
		80472 80472	2/17/2023
		CONAL ENGINE	GILMER D. GASTON, P.E. DATE
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	- F	REV. NO. DATE	DESCRIPTION BY
			PAPE-DAWSON
		THE E	ENGINEERS
			AUSTIN I HOUSTON I FORT WORTH I DALLAS 410 I SAN ANTONIO, TX 78213 I 210.375.9000
			ING FIRM #470 I TEXAS SURVEYING FIRM #10028800
		LJA Ena	ineering, Inc.
LL CONTACT	-		R
LITY LOCATION IRS PRIOR TO ISTRUCTION			Texas Department of Transportation
	ノ	C2023	LP 1604
			ED SIGNAL LAYOUT
SPECIFICALLY CA		I	REDLAND RD LP 1604 WBFR
SPECIFICALLY CA JTILITIES INCLUDIN THE VICINITY OF	IG GAS ARE	~ '	
ALL FOR LOCATE SHALL EXERCISE	S PRIOR TO	FED. RD. DIV. NO. STATE	PROJECT NO. HIGHWAY NO.
NAL EQUIPMENT IN ND CONDUITS		6 TEXAS	S LP1604 CONTROL SECTION JOB SHEET NO. NO. NO. NO.
		SAT BEXAR	

LEGEND

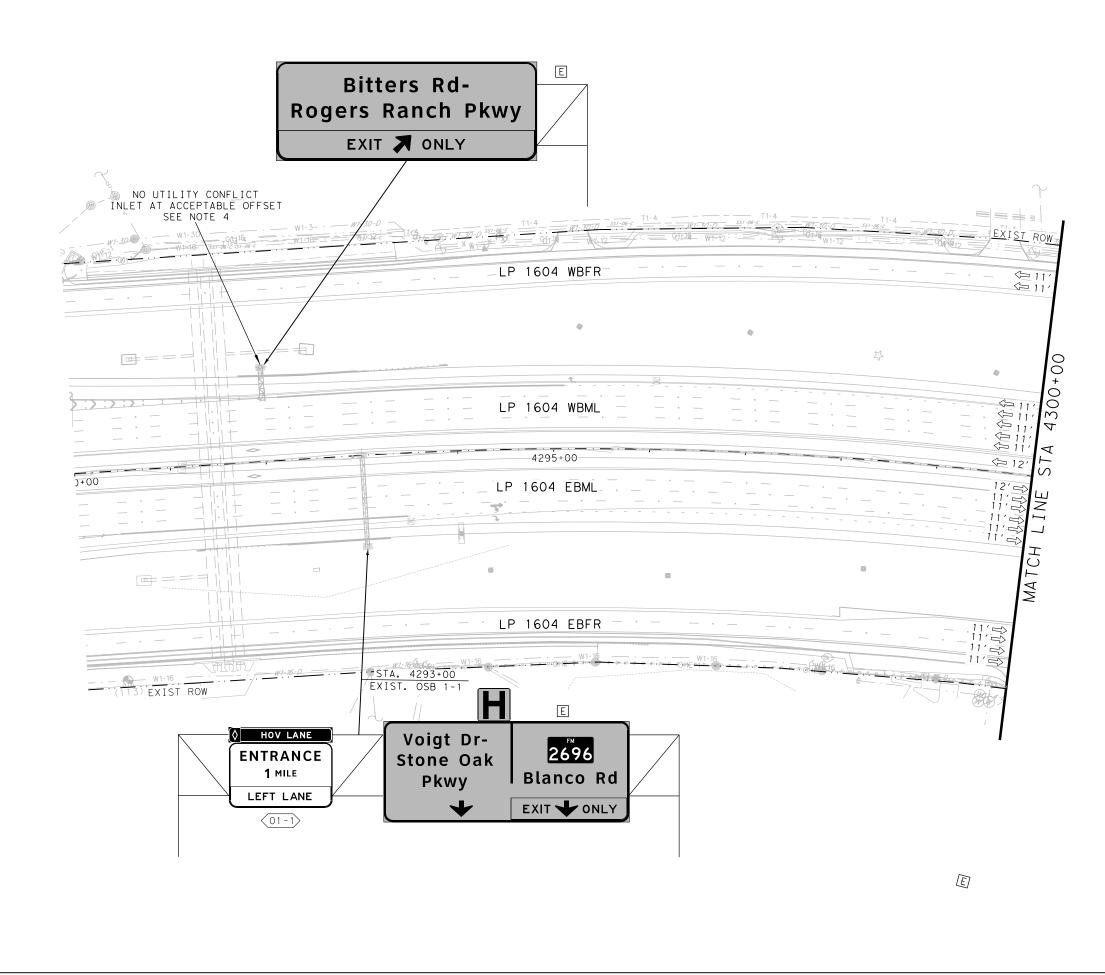


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	LEGEND			
SYMBOL	DESCRIPTION			
	RIGHT-OF-WAY TRAFFIC FLOW			
	CONDUIT RUN (TRENCH)			
	CONDUIT RUN (BORE)			
	ILSN SIGN			
	COSA CONTROLLER CABINET GROUND BOX			
©	TRAFFIC POLE & FND			
4 1	TRAFFIC SIGNAL HEAD			
+	MAST ARM SIGN			
	RADAR PRESENCE DETECTION (RPDD) RADAR ADVANCE DETECTION (RADD)			
+	OPTICOM EVP			
¤ –	LUMINAIRE			
E C	PED SIGNAL & PUSH BUTTON			
	CONDUIT IDENTIFIER POLE IDENTIFIER			
	CCTV			
	20 40 60 SCALE 1" - 40'			
DESIGN	2/17/2023 JUSTIN W. CLARK, P.E. DATE			
REVEW & APPROVAL	2/17/2023 GILMER D. GASTON, P.E. DATE			
REV. NO. DATE	DESCRIPTION BY			
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 Eng	LJA Engineering, Inc.			
©202	Texas Department 3 of Transportation			
LP 1604 PROPOSED SIGNAL LAYOUT REDLAND RD AT LP 1604 EBFR				

THAT UNDERGROUND UTILITIES INCLUDING GAS ARE KNOWN TO EXIST IN THE VICINITY OF THIS WORK. CONTRACTOR SHALL CALL FOR LOCATES PRIOR TO

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	2133



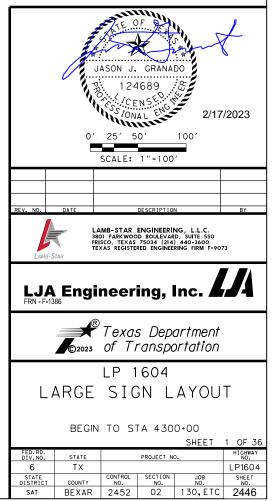


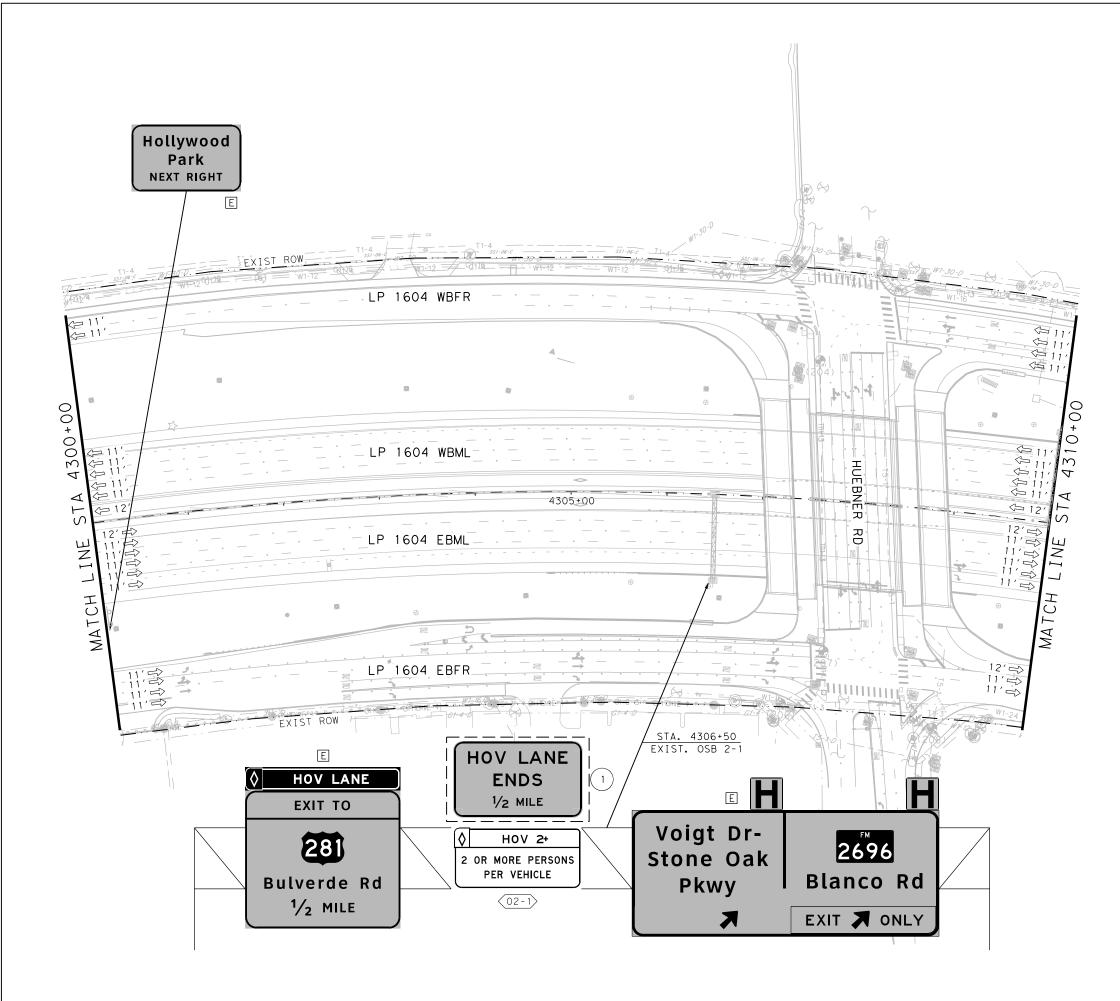
LEGEND

X-X> SIGN NUMBER - PROPOSED LARGE SIGN E EXISTING SIGN TO REMAIN

- (X) EXISTING SIGN TO BE REMOVED
- □ CONCRETE COLUMN SIGN FOUNDATION
- TRAFFIC FLOW ARROW (EXISTING)
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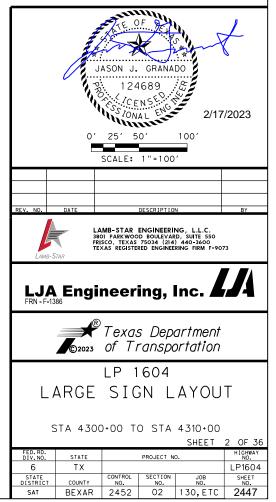


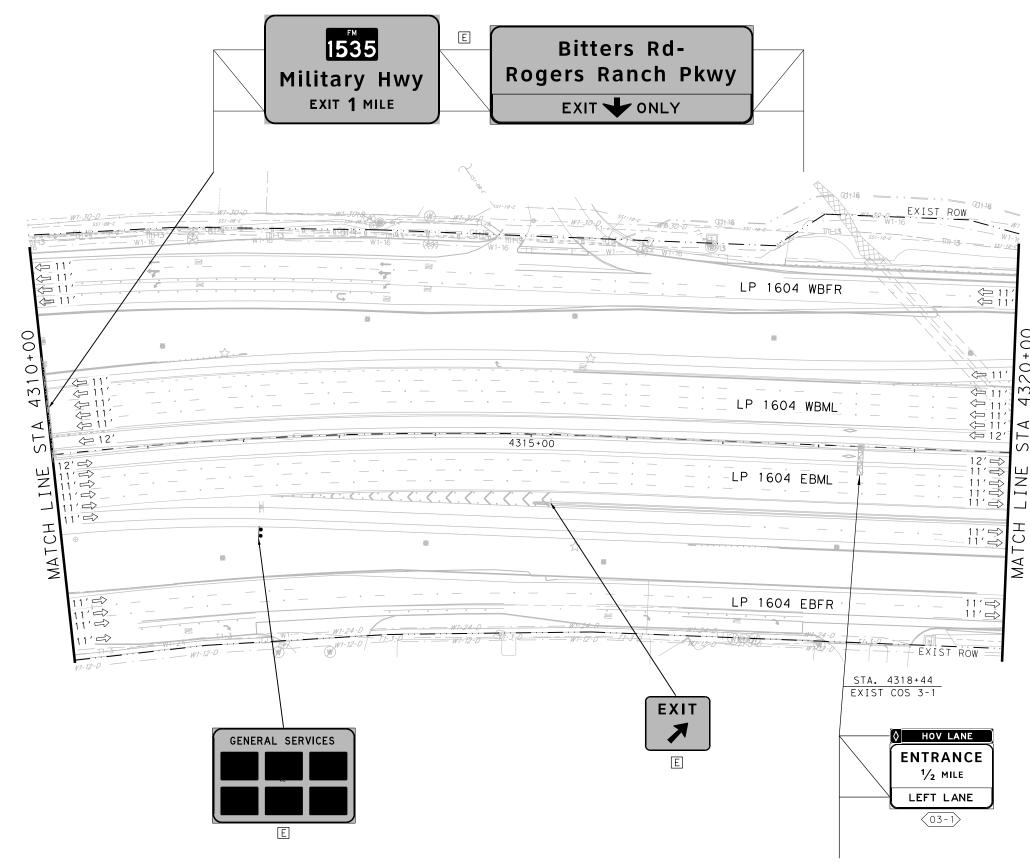
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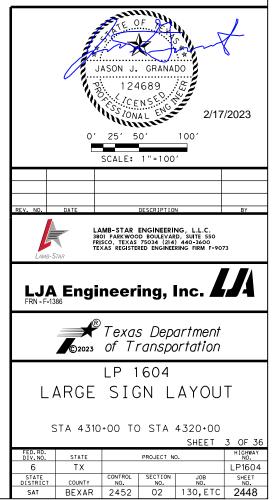
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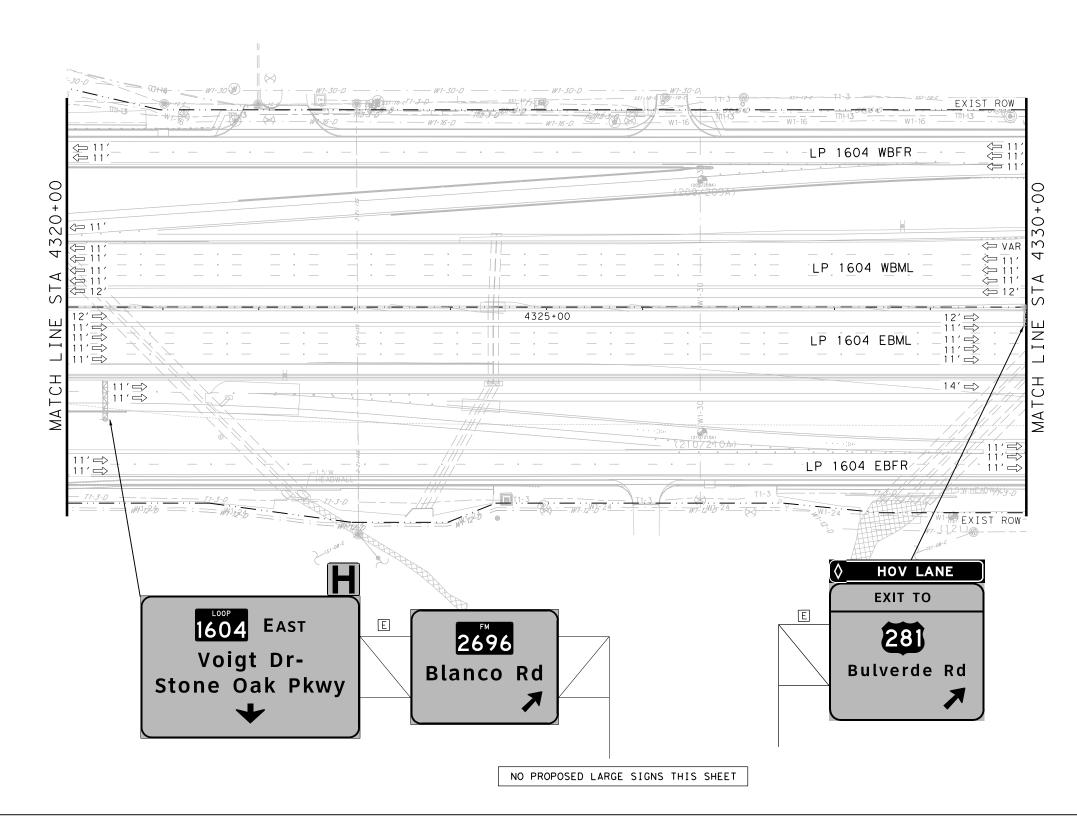
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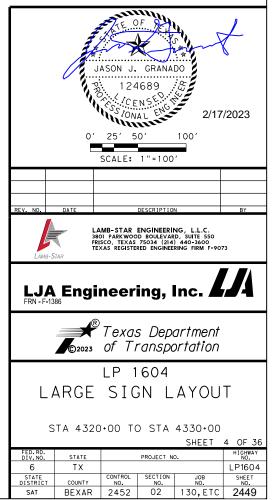


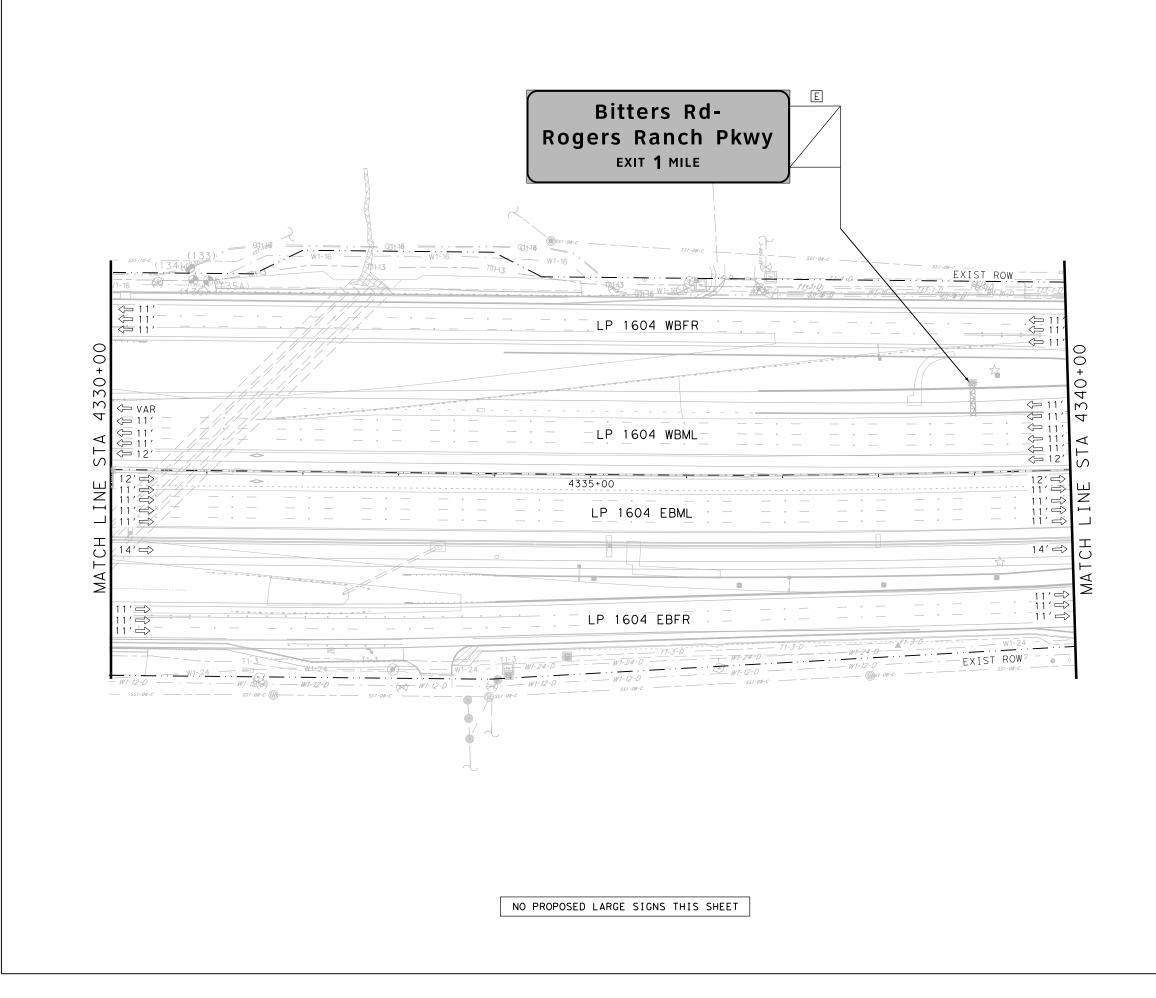
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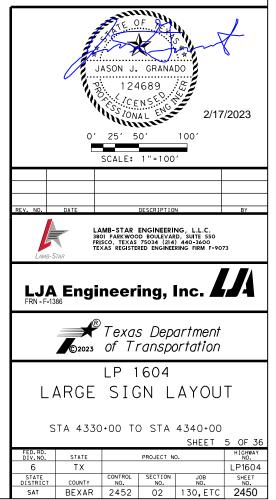


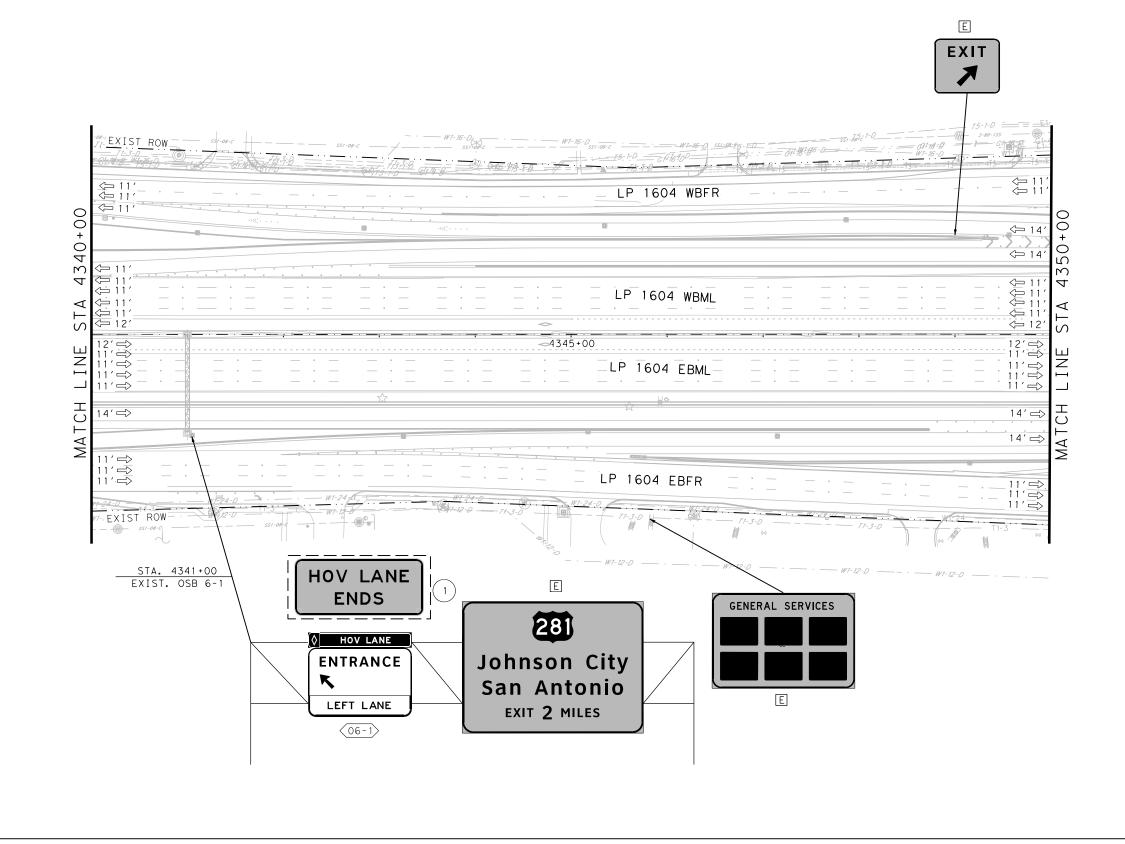
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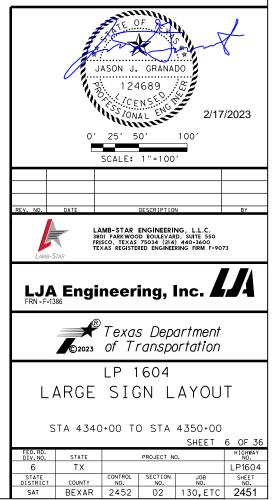


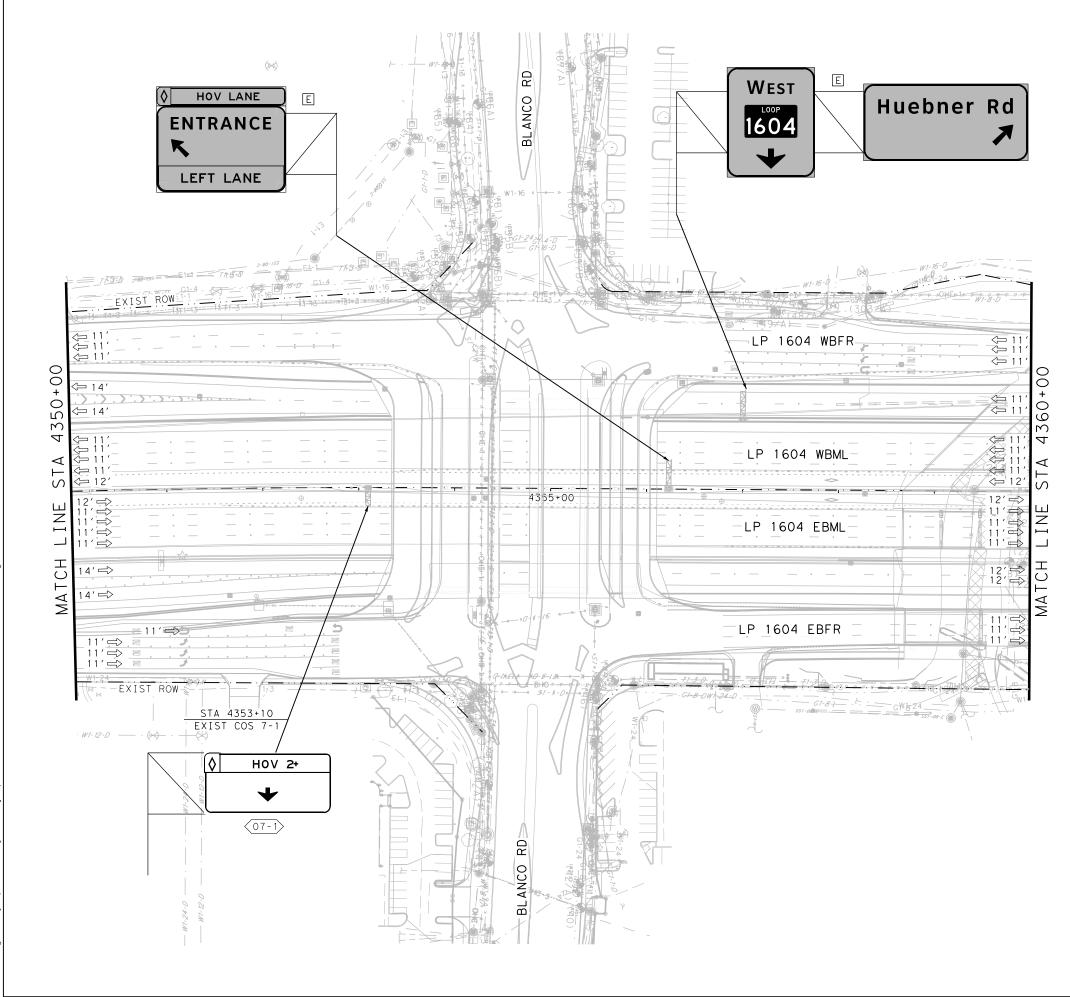
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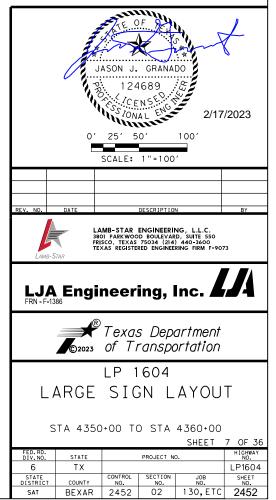


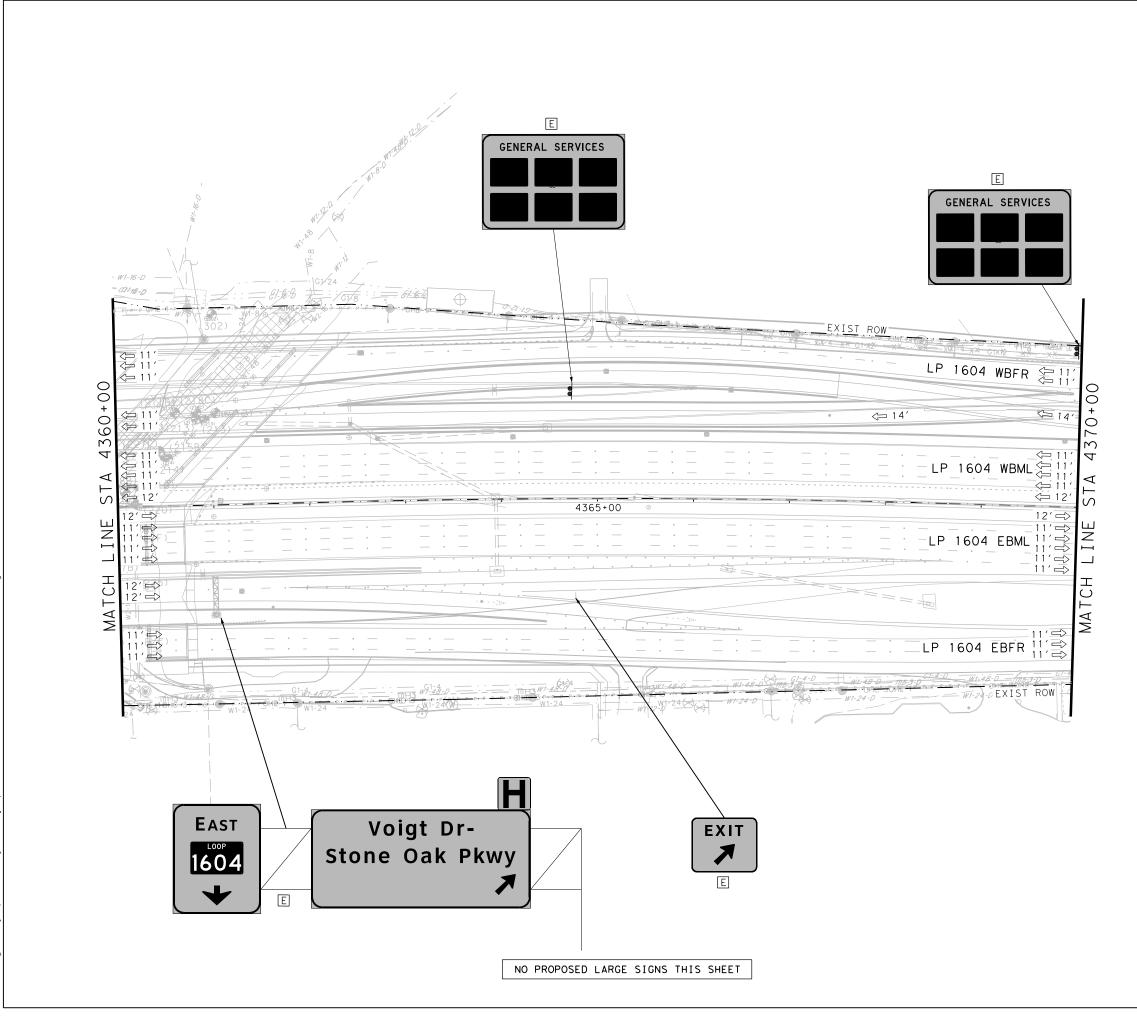
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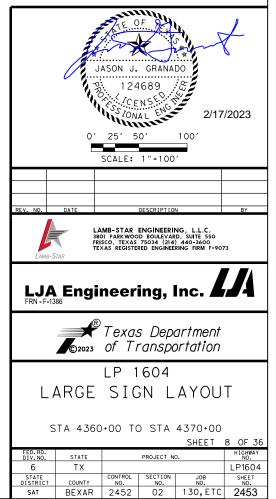


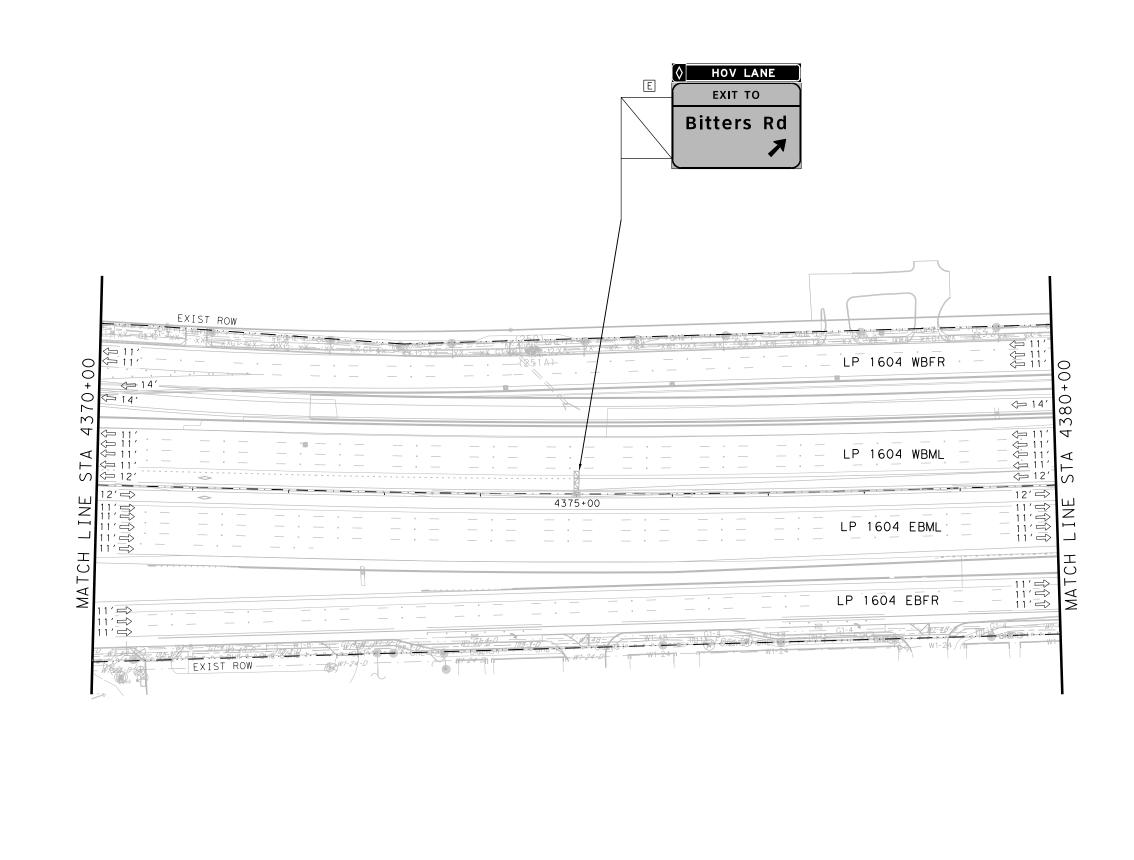
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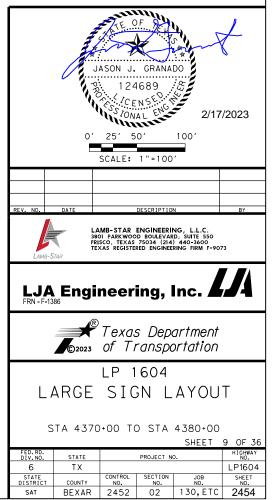


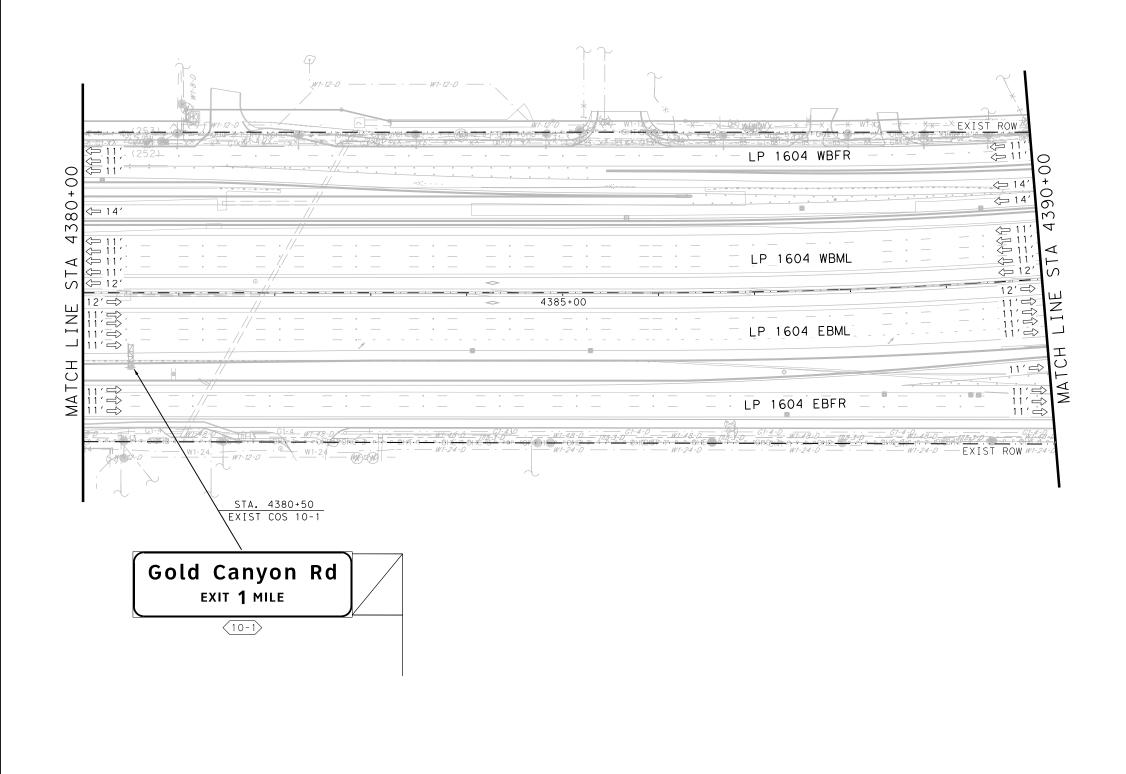
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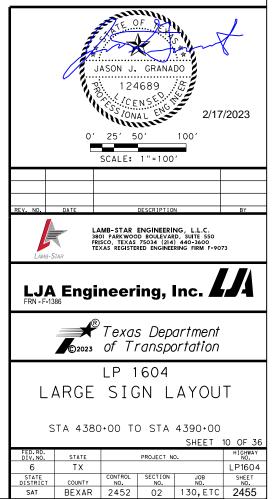


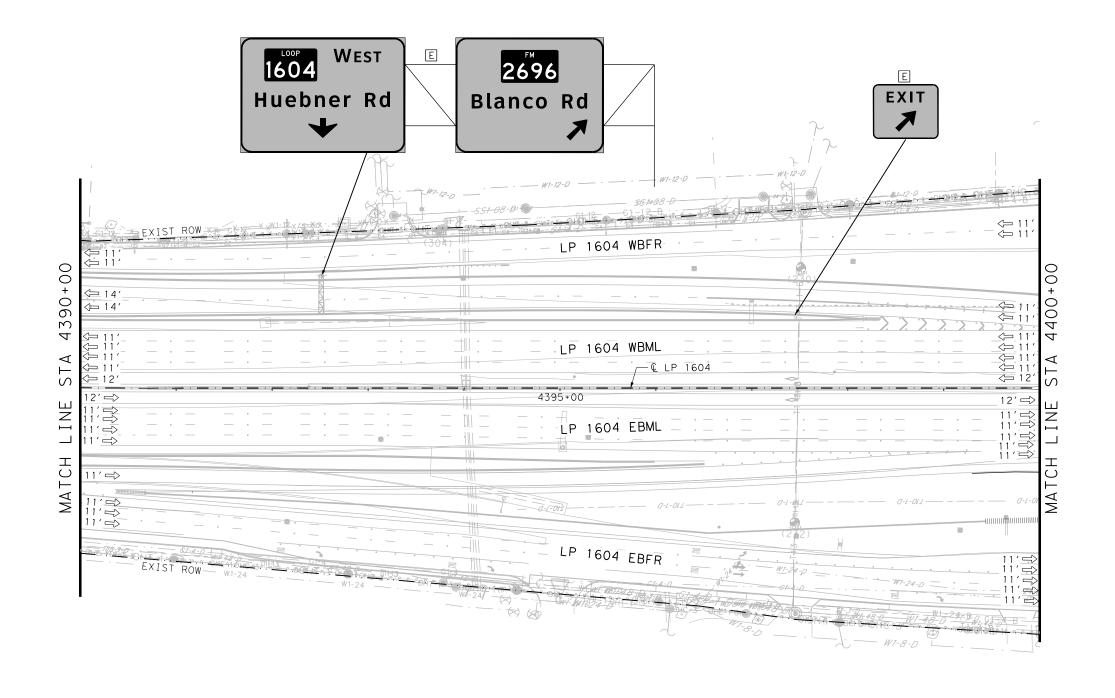
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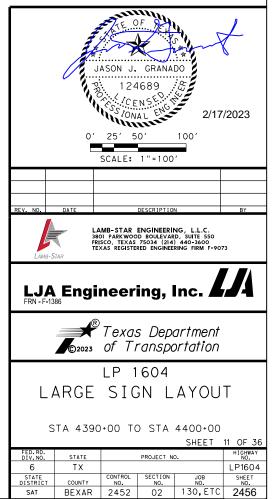


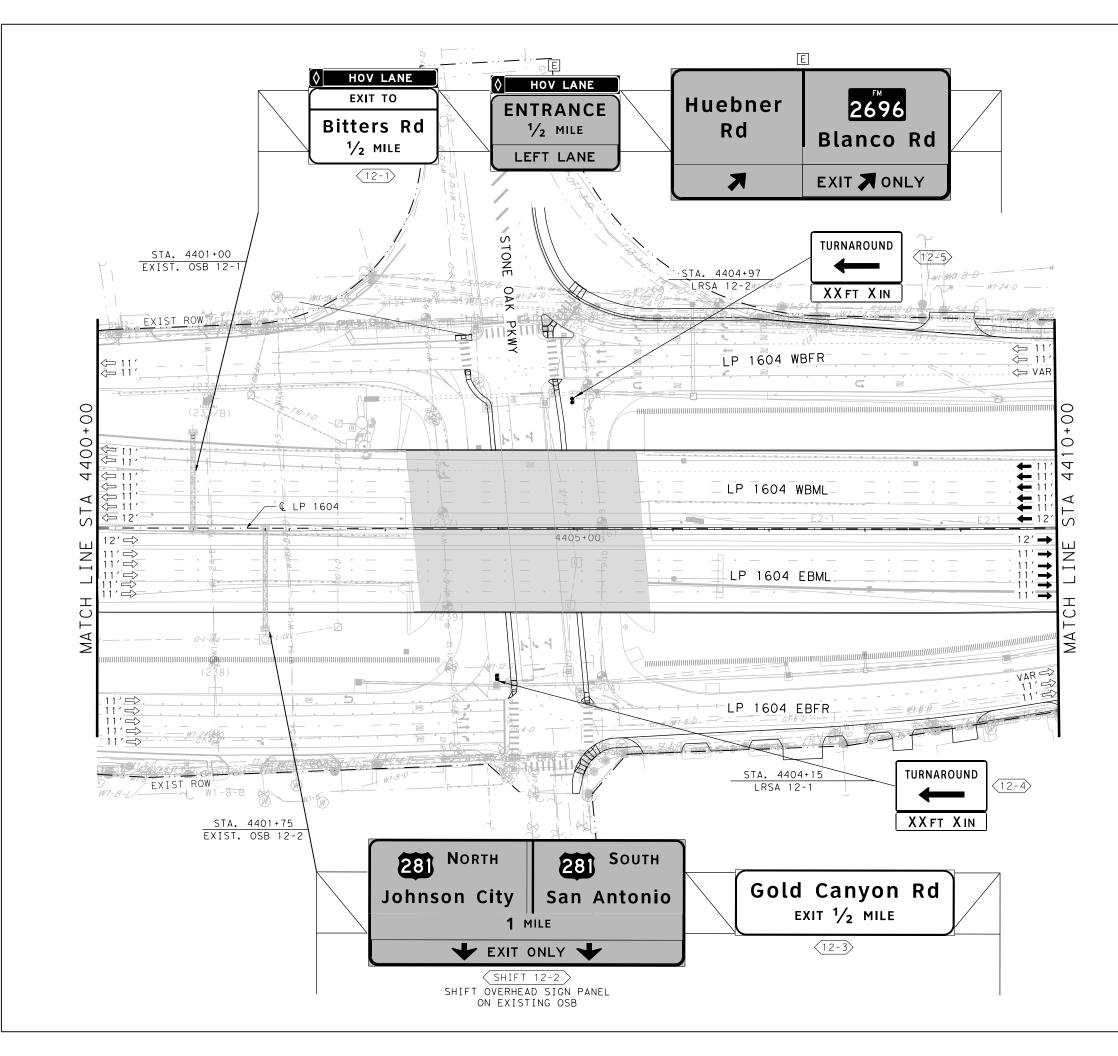
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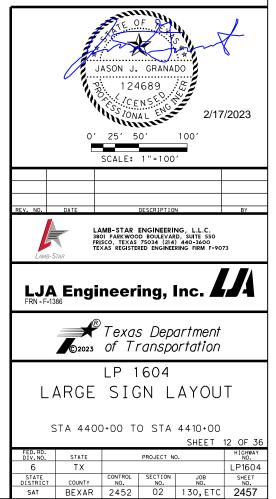


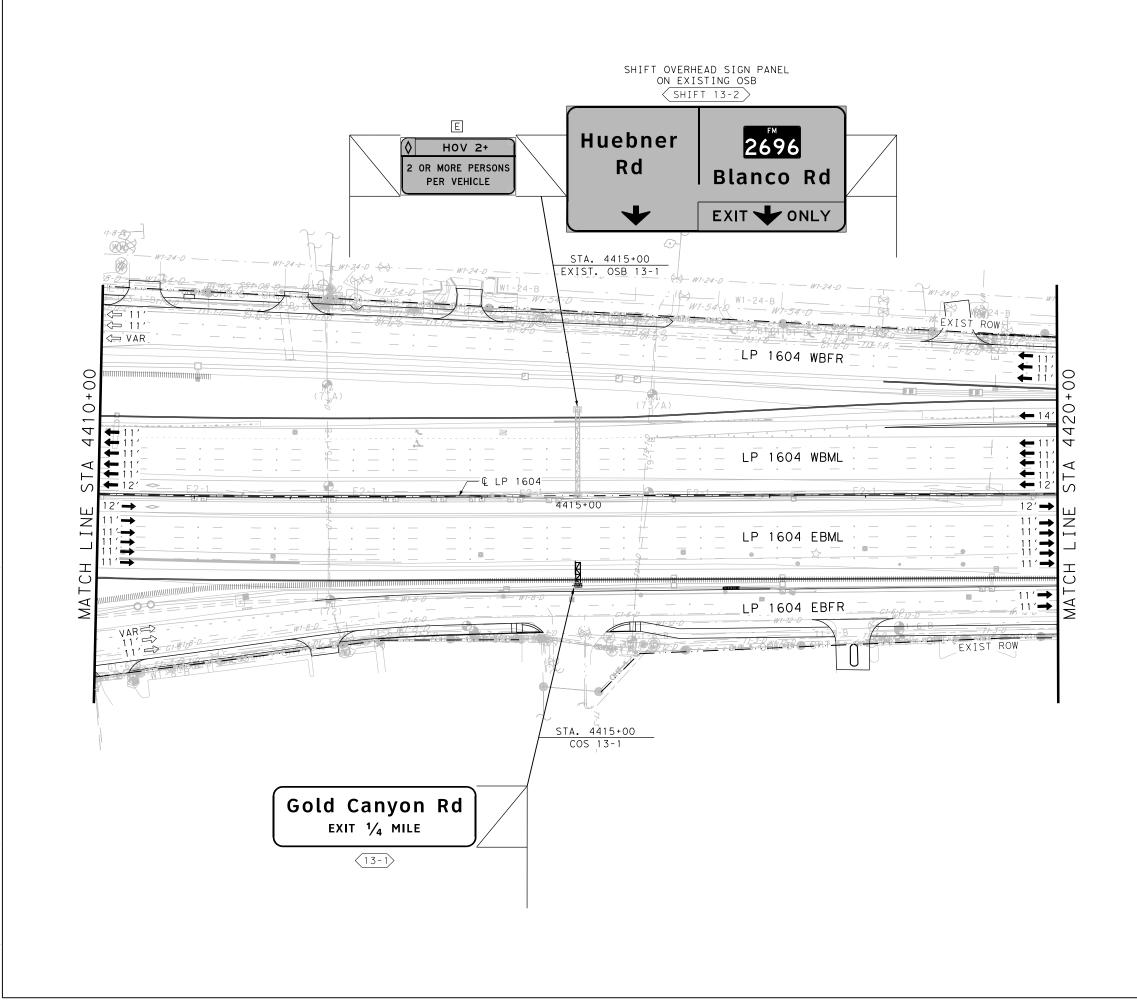
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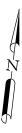
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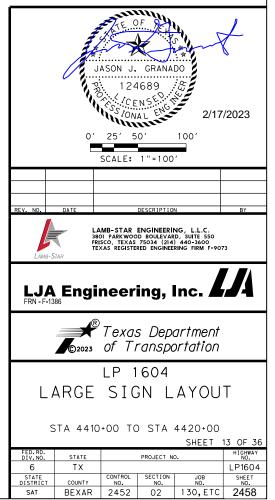


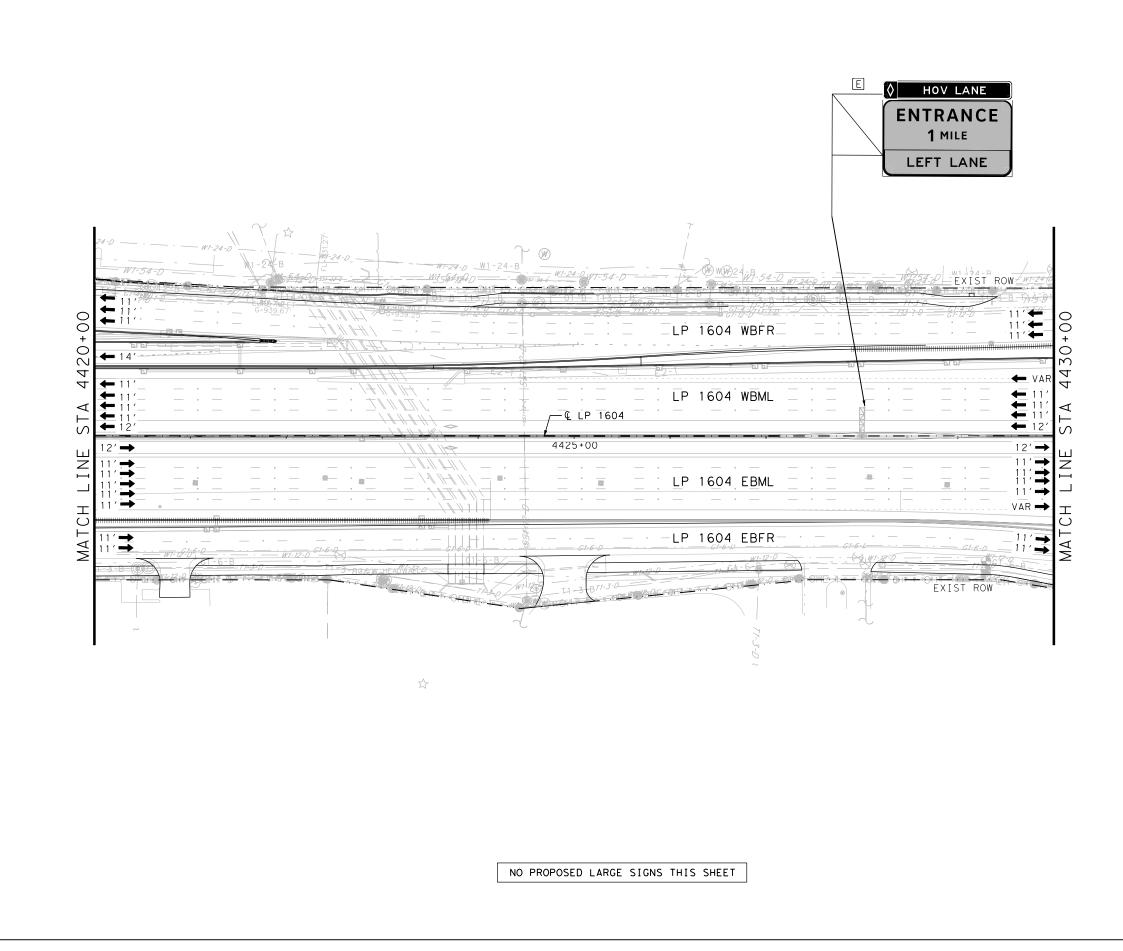
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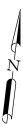
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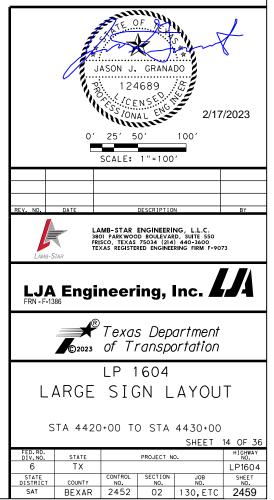


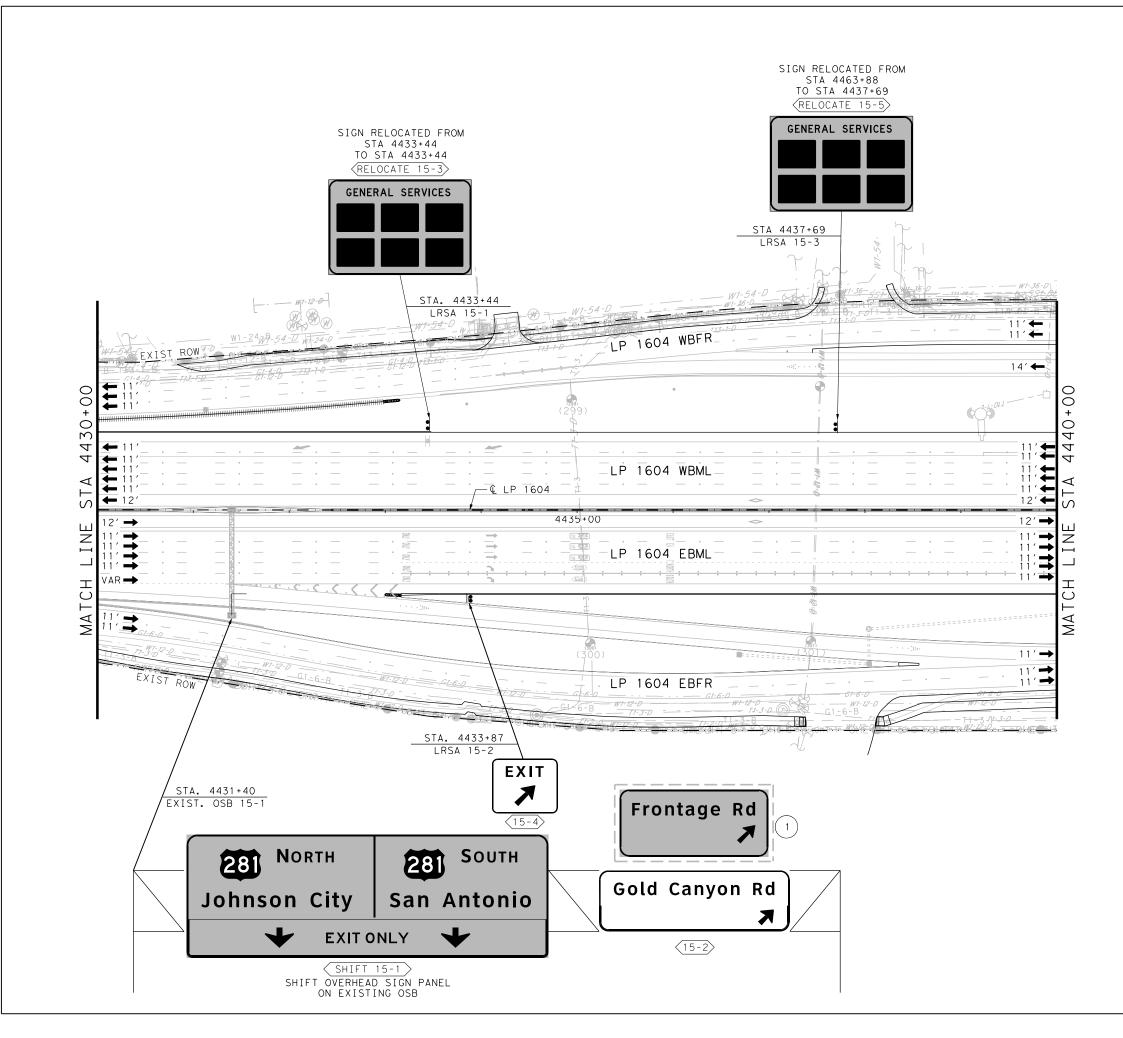
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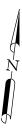
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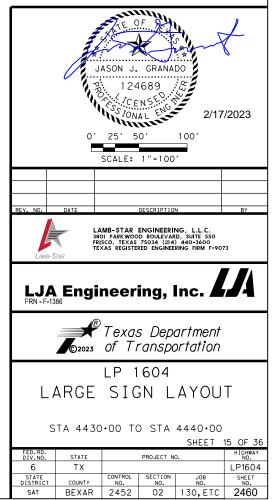


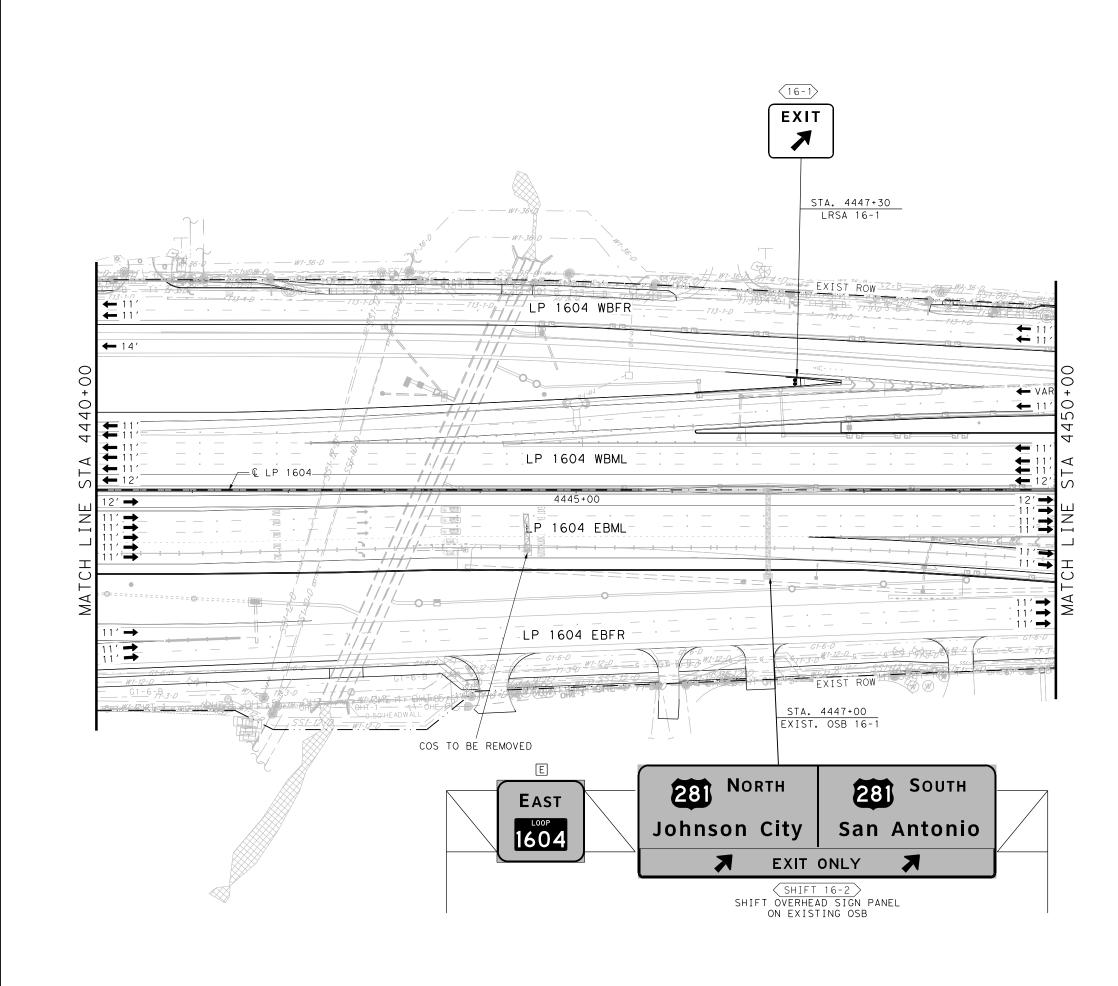
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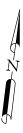
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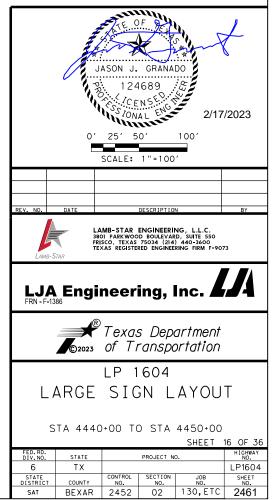


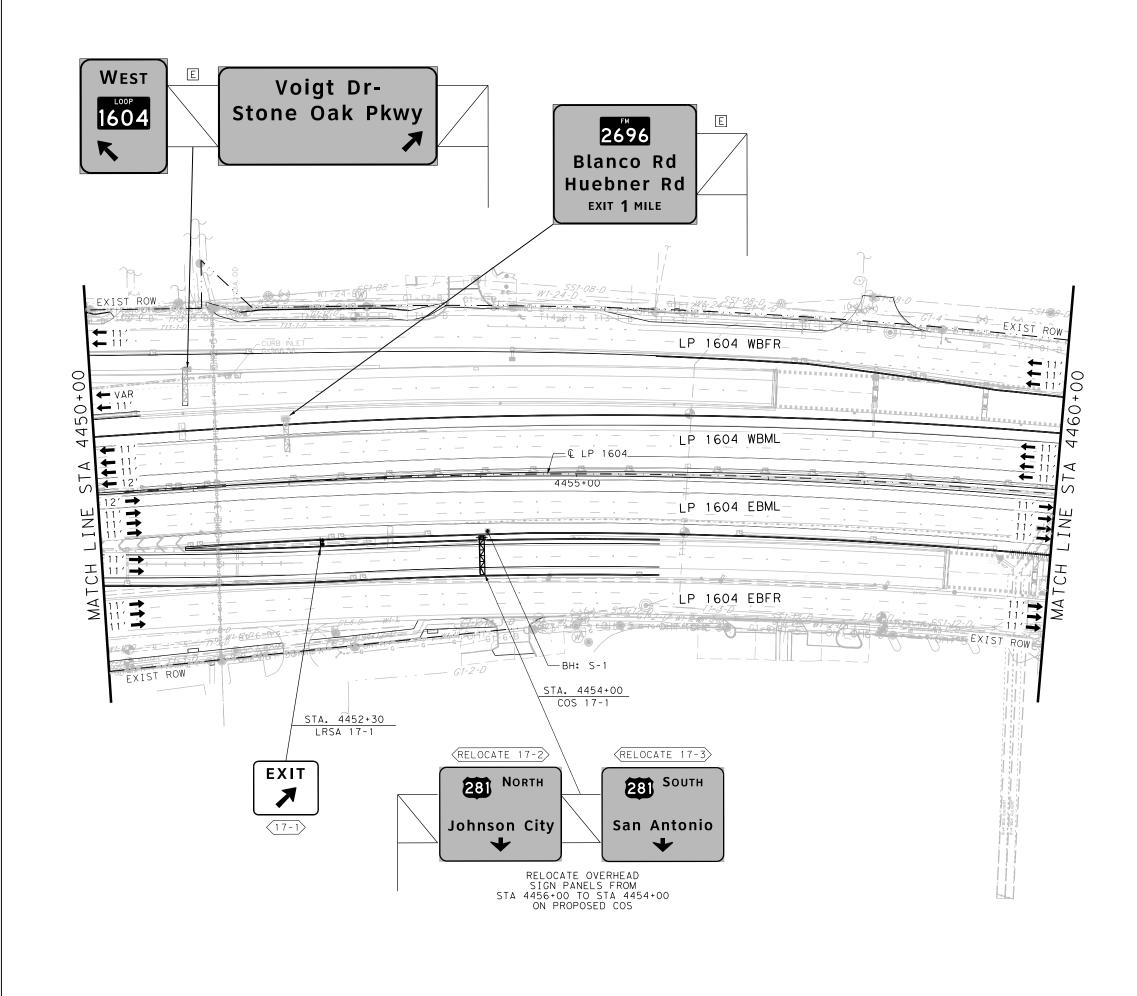
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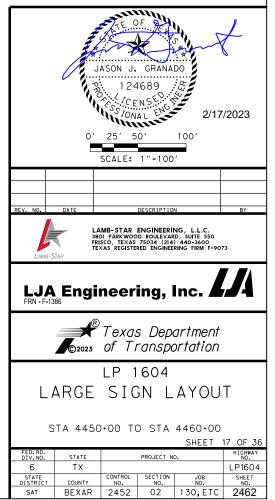


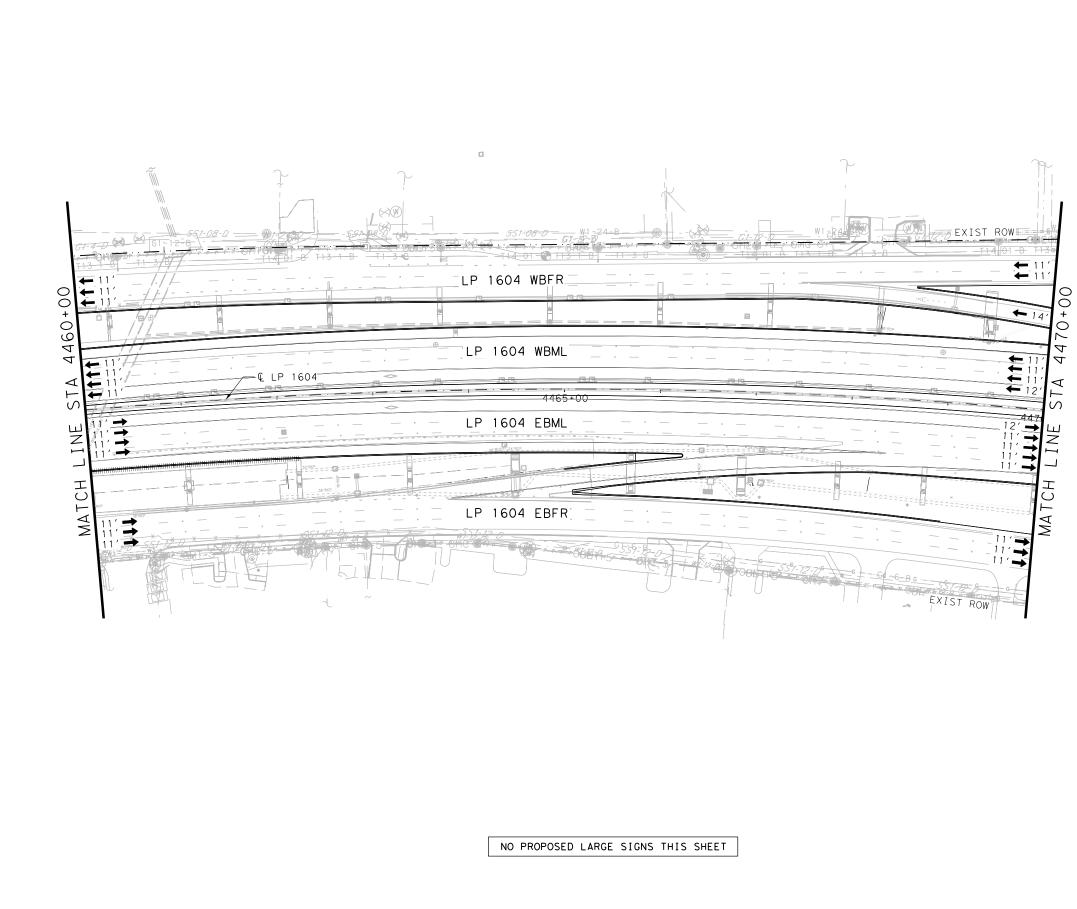
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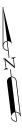
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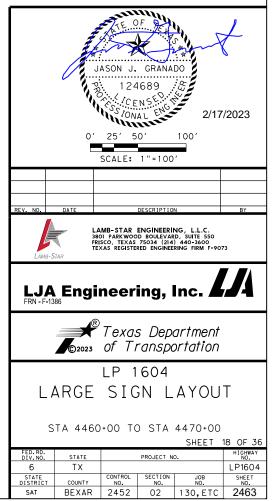


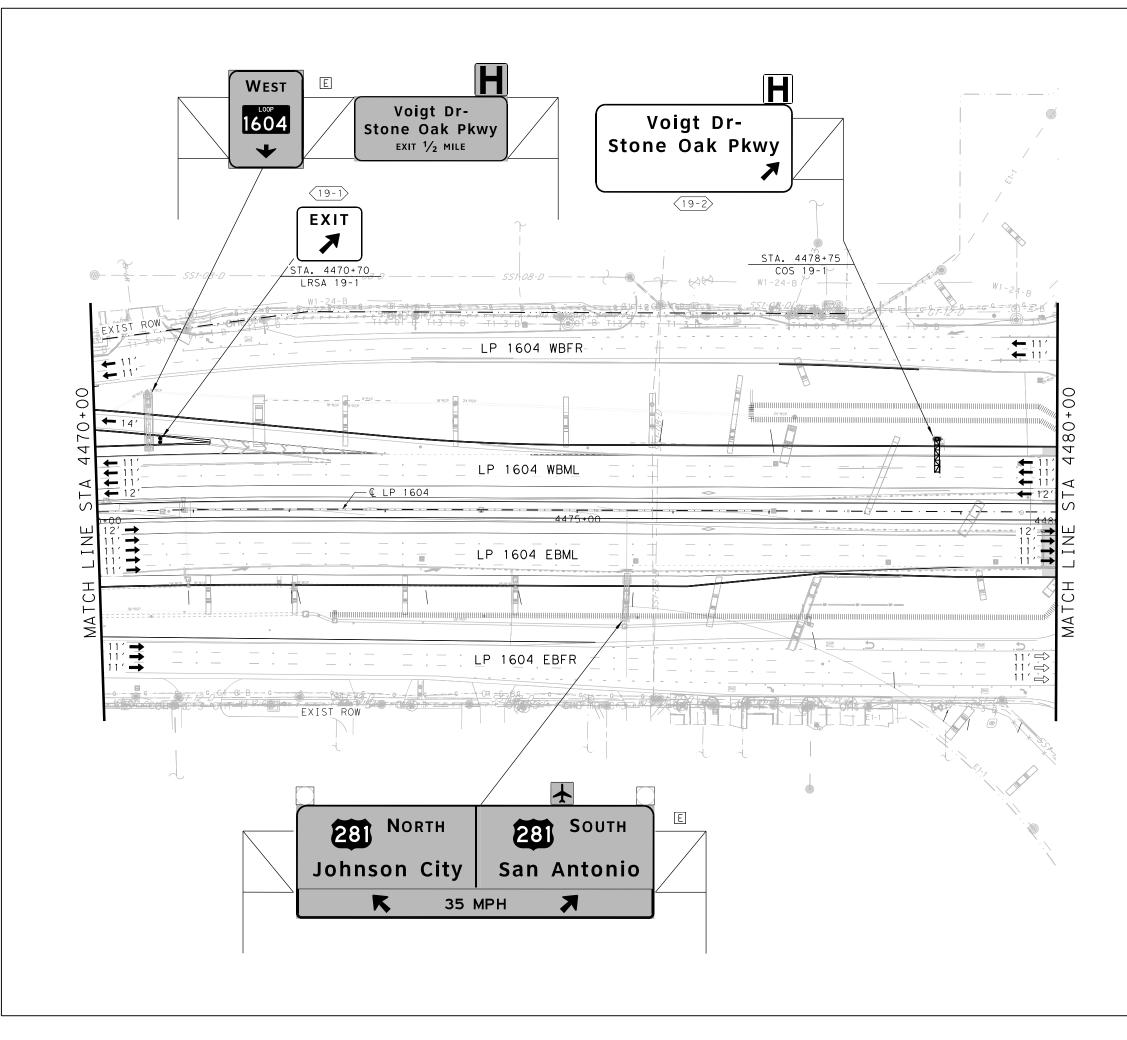
LEGEND

X-X SIGN NUMBER - PROPOSED LARGE SIGN E EXISTING SIGN TO REMAIN

- \otimes EXISTING SIGN TO BE REMOVED
- CONCRETE COLUMN SIGN FOUNDATION
- \triangleleft TRAFFIC FLOW ARROW (EXISTING)
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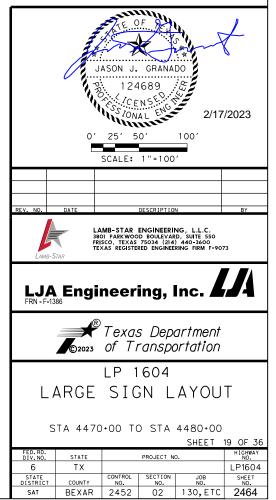


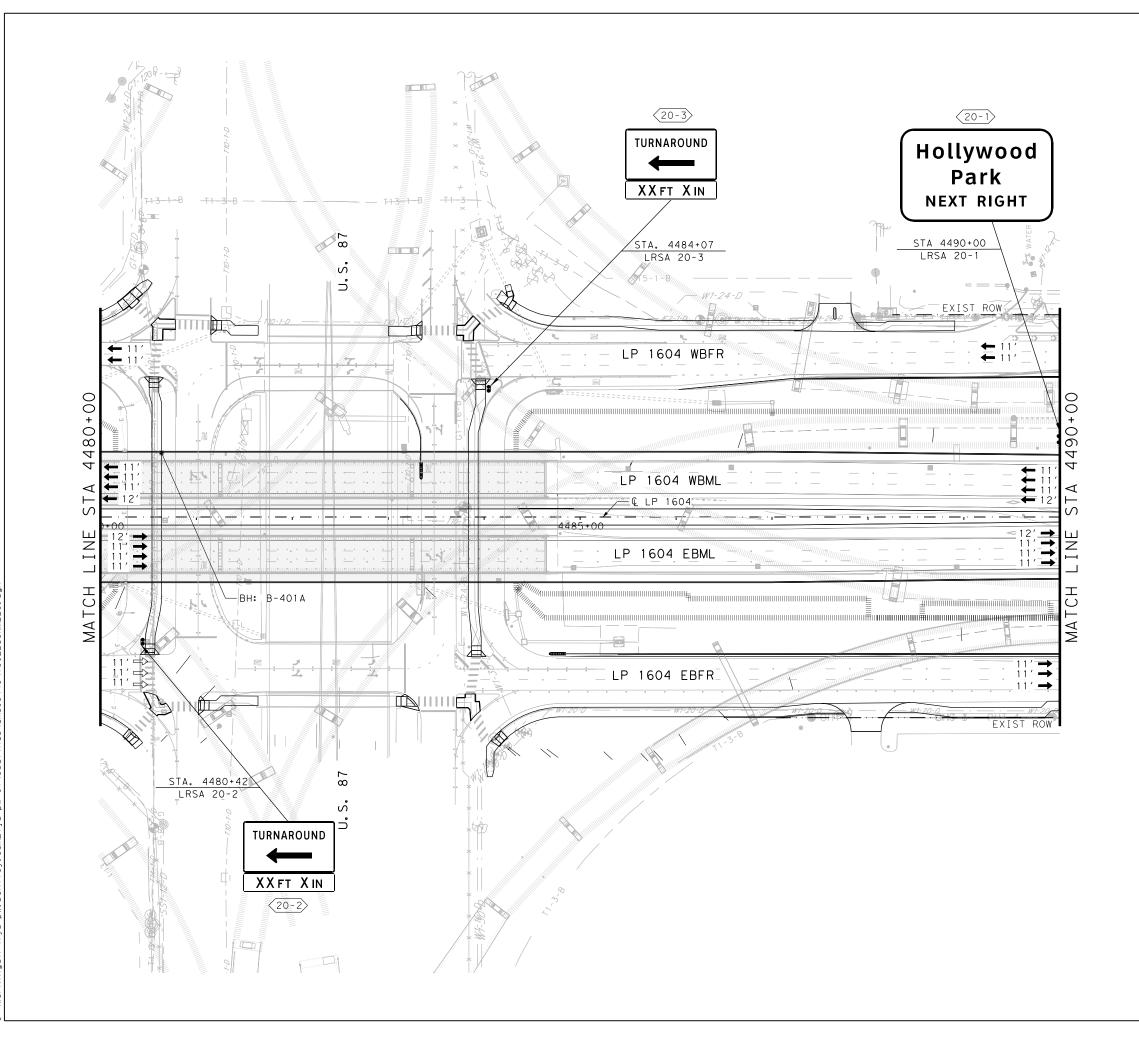
LEGEND

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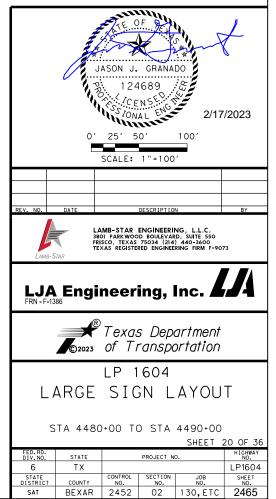


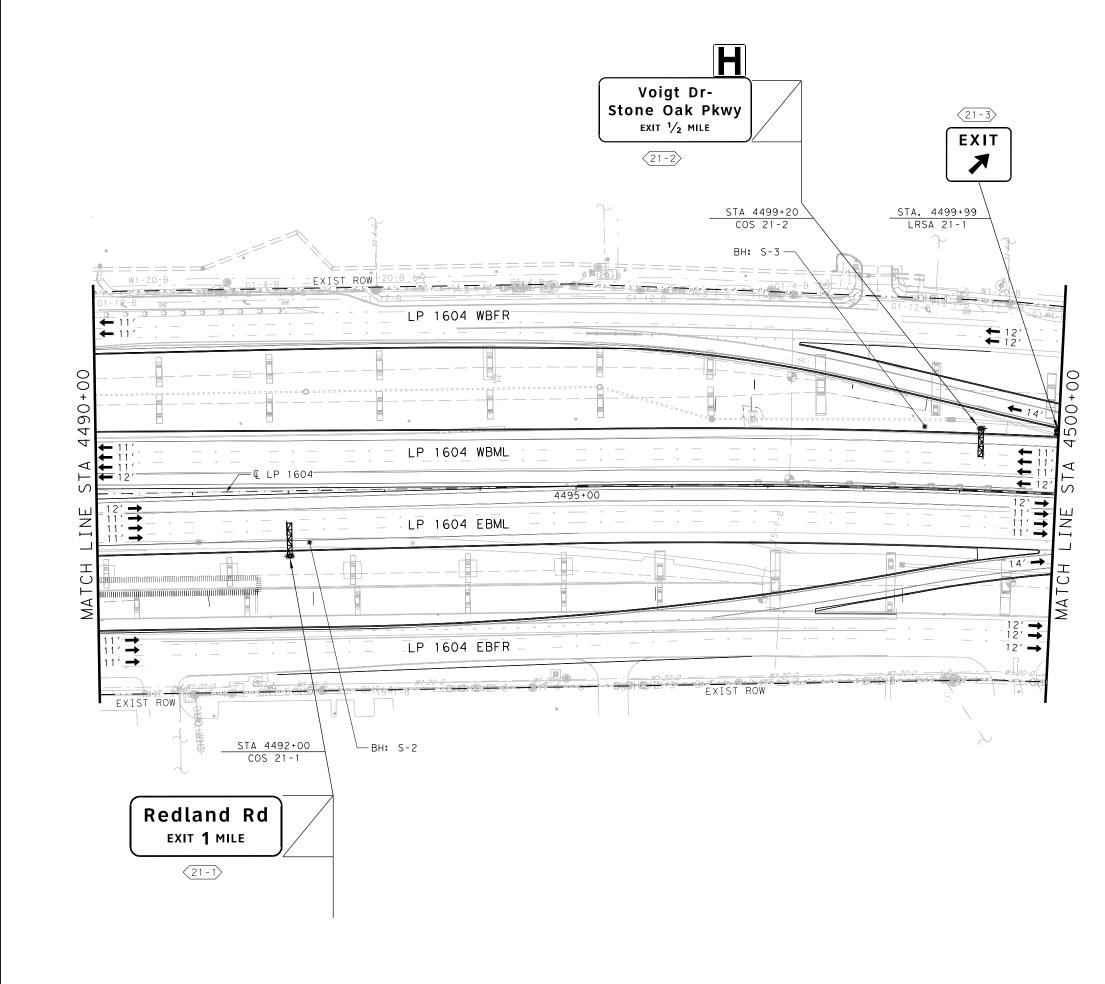
LEGEND

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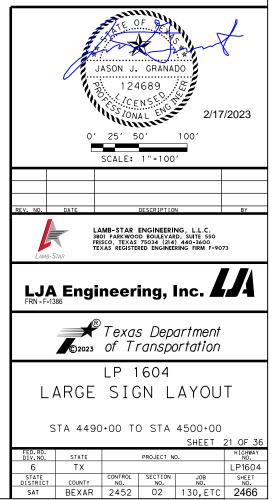


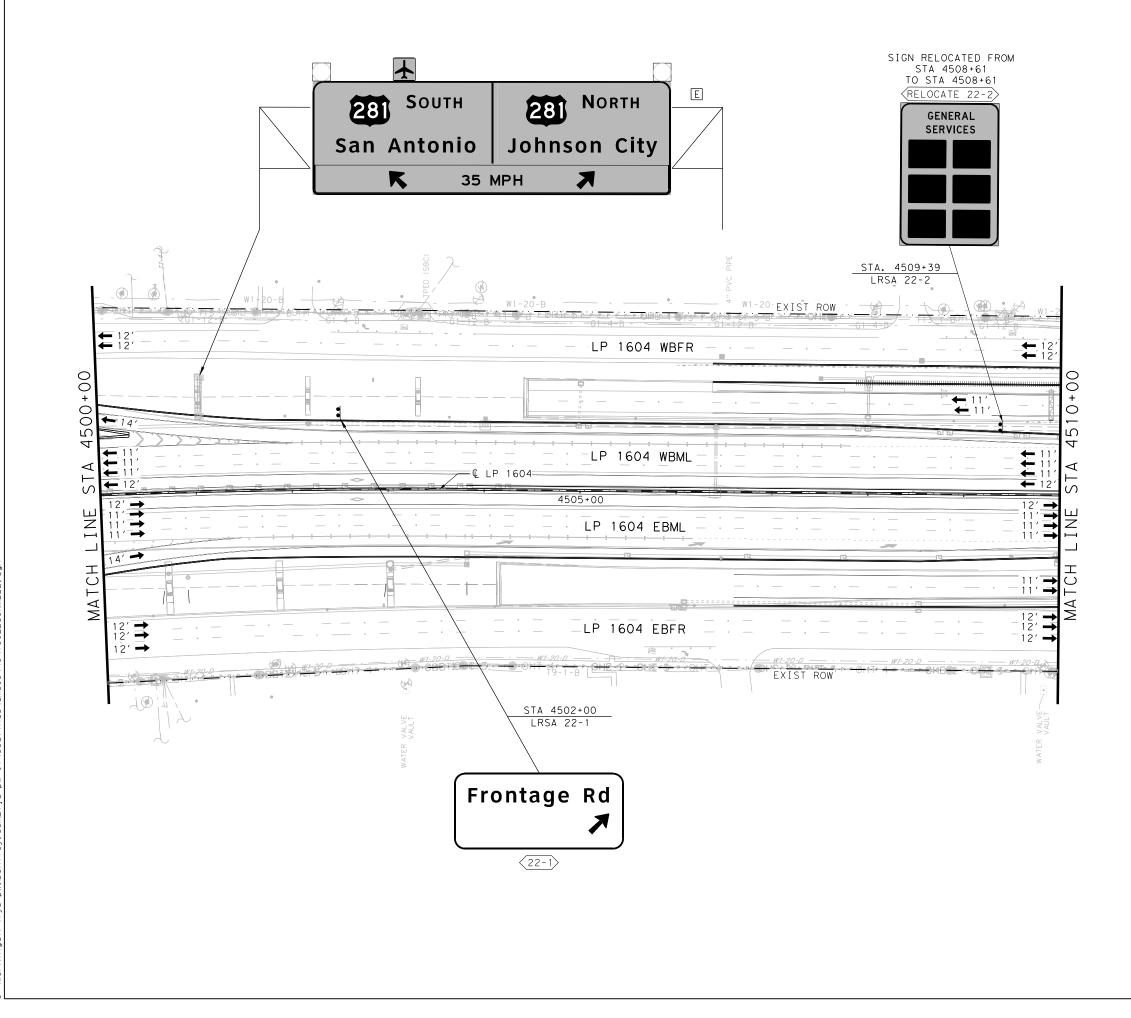
LEGEND

X-X SIGN NUMBER - PROPOSED LARGE SIGN E EXISTING SIGN TO REMAIN X EXISTING SIGN TO BE REMOVED

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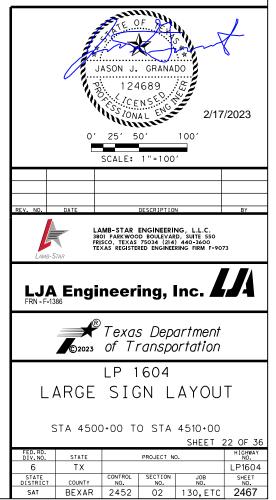


LEGEND

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RELOCATE EXISTING SIGNS ON PROPOSED COS ¥ (23-7) TURNAROUND SOUTH 281 North 281 (23-1) Fran 10 Billionan EXIT Johnson City San Antonio Л STA. 4519+25 LRSA 23-3 (RELOCATE 23-2) (RELOCATE 23-3) STA. 4513+60 STA. 4513+28 LRSA 23-1 EXIST ROW BH: W-4512 50L COS 23-1 -12 LP 1604 WBFR + 2 **←** 12 0 \circ \circ 0 \bigcirc ← 11 $^{\circ}$ **←** 11′ \circ \sim . ഹ S \forall ← 12 -LP 1604 WBML **∠ —** 12 \triangleleft ←. \vdash €_LP 1604 + ← 12 S S 4515+00 -⇒ Ц I. IN Z ⇒ LP 1604 EBML \rightarrow - \rightarrow ____ \rightarrow Т Т \overline{O} \overline{O} 11 - \triangleleft \triangleleft \geq \geq ⇒ 12′ 12′ LP 1604 EBFR - \rightarrow 77 EXIST ROW NO UTILITY CONFLICT GOL INLET AT ACCEPTABLE OFFSET -BH: W-4517 OOR STA. 4517+67 SEE NOTE 4 STA. 4516+70 / LRSA 23-2 Ū OSB 23-1 CANYON TURNAROUND -Bulverde Rd **Redland Rd** EXIT $1/_2$ MILE EXIT **1** MILE DR 23-6 23-4 23-5

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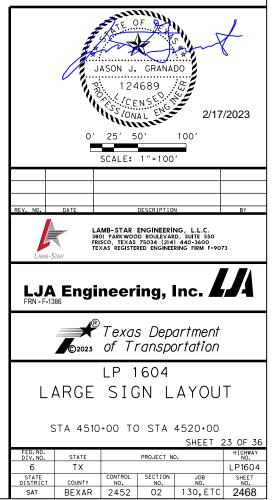


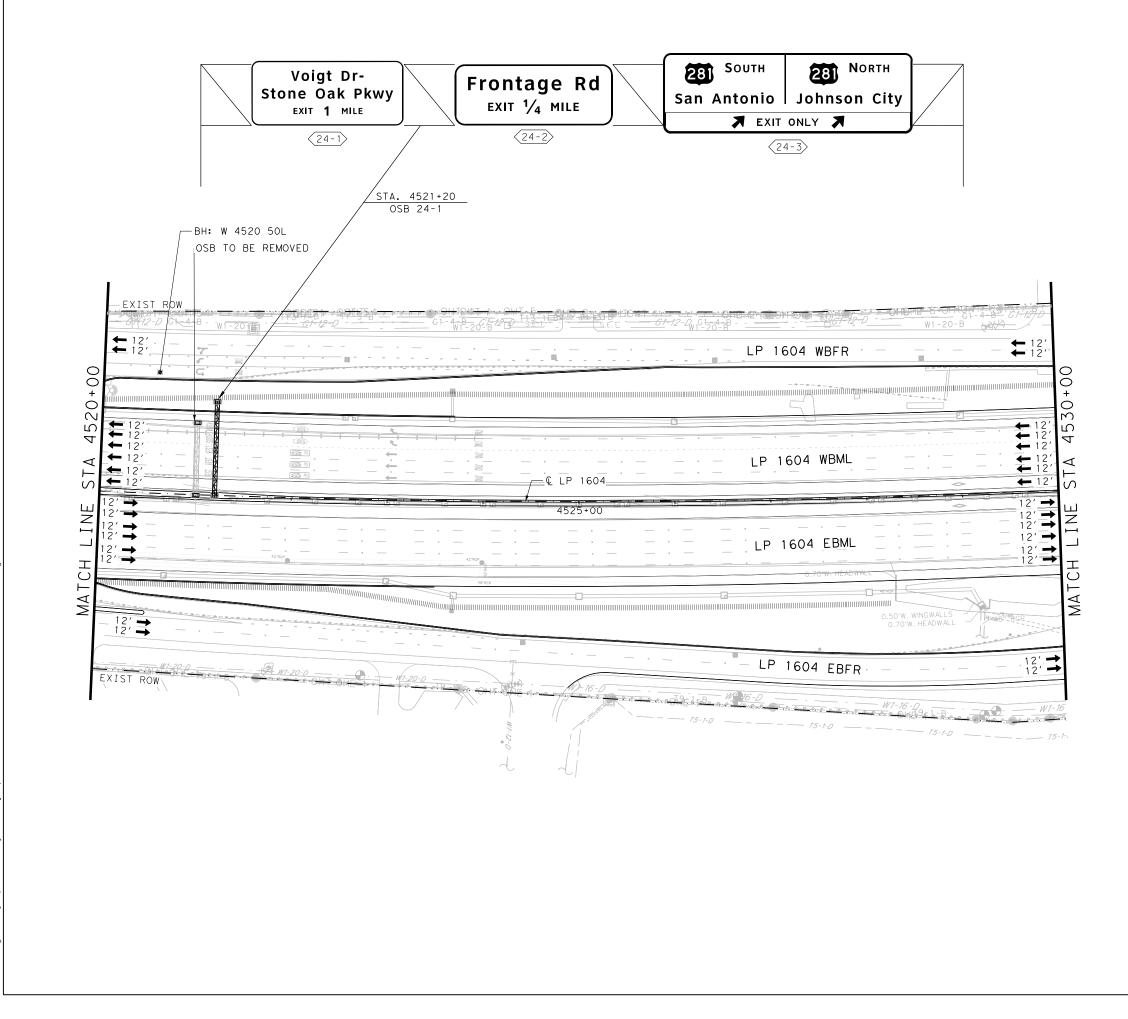
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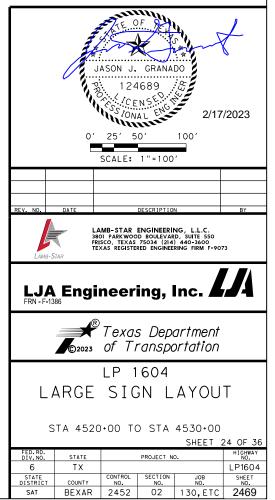


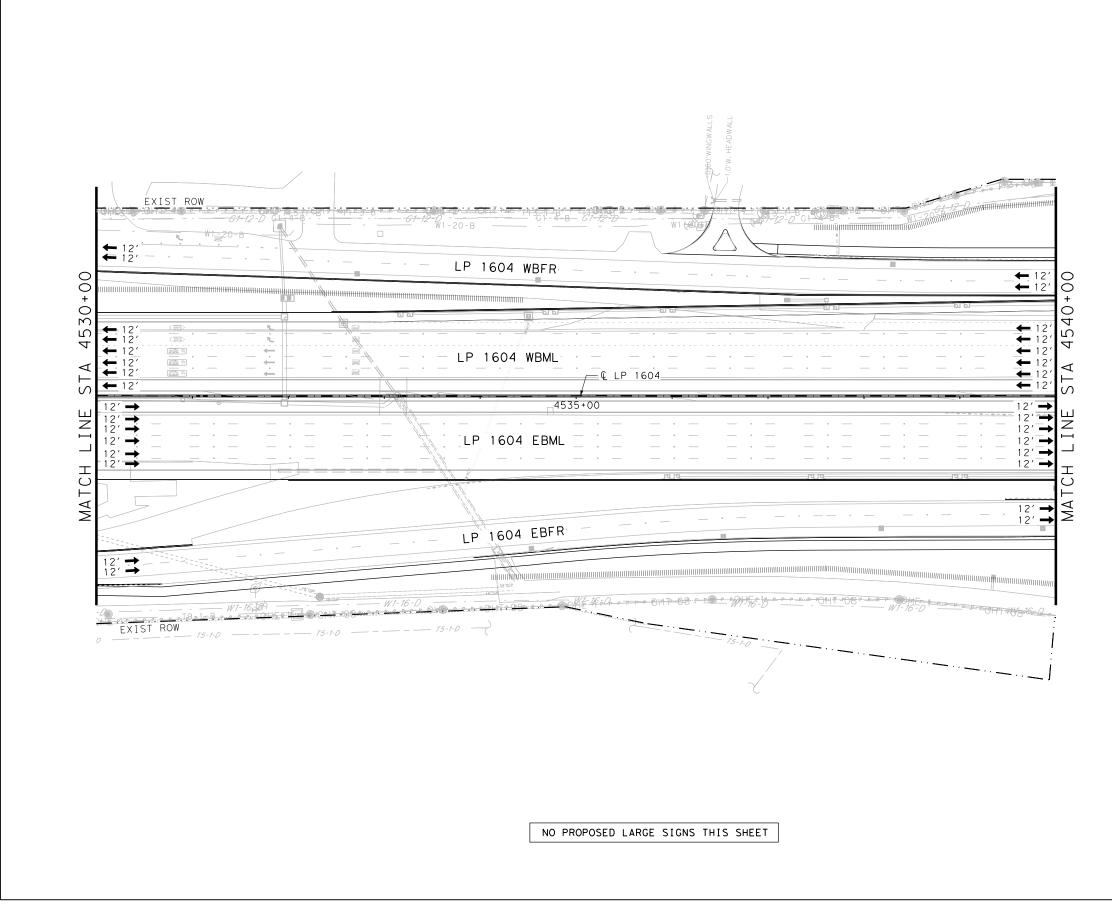
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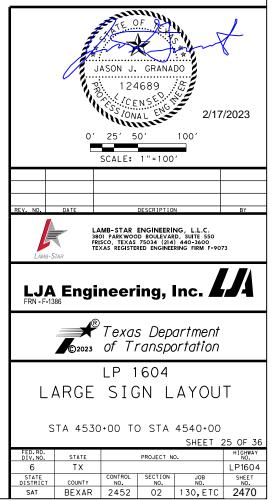


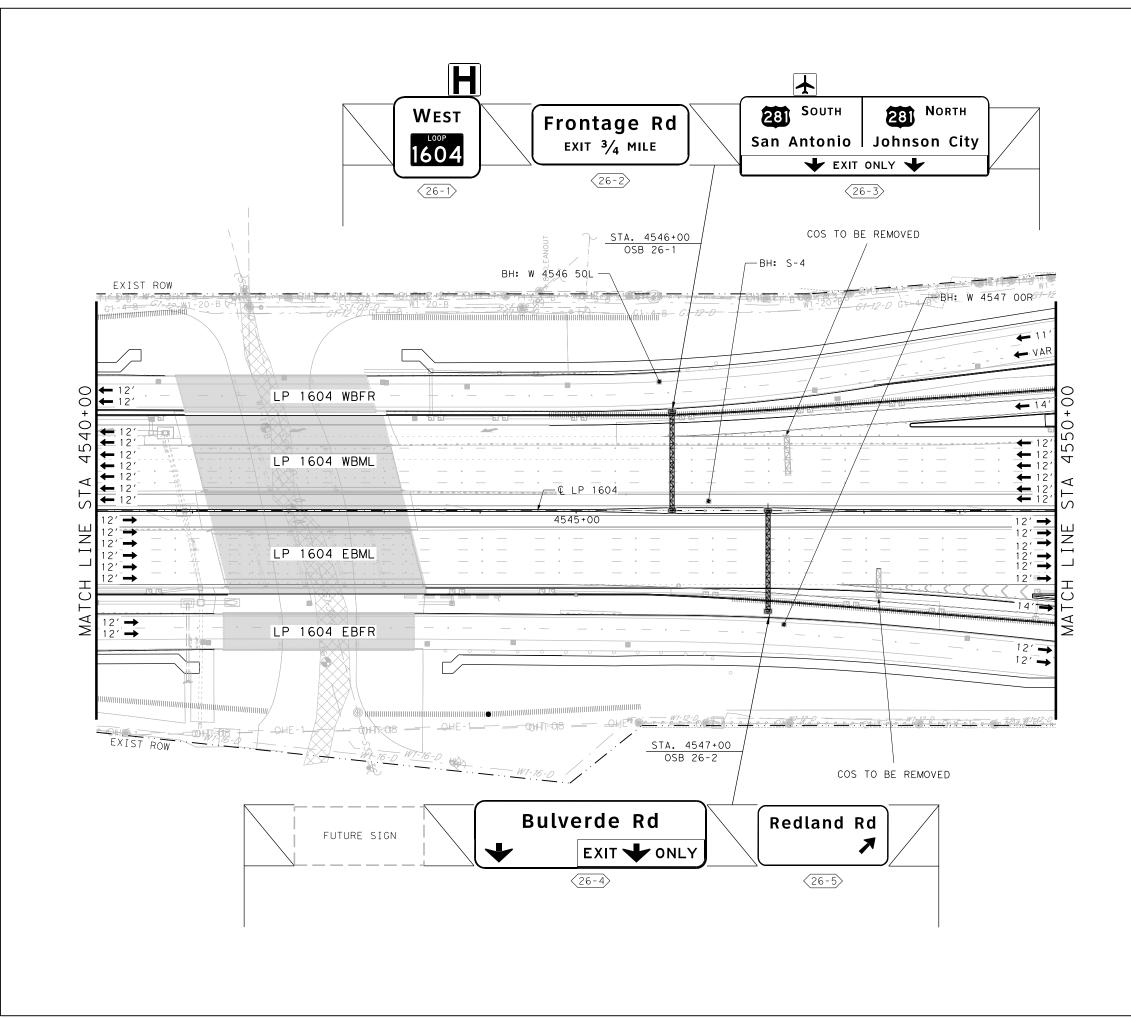
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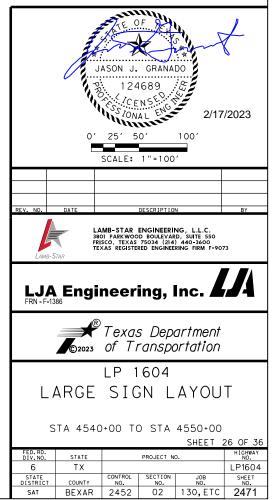


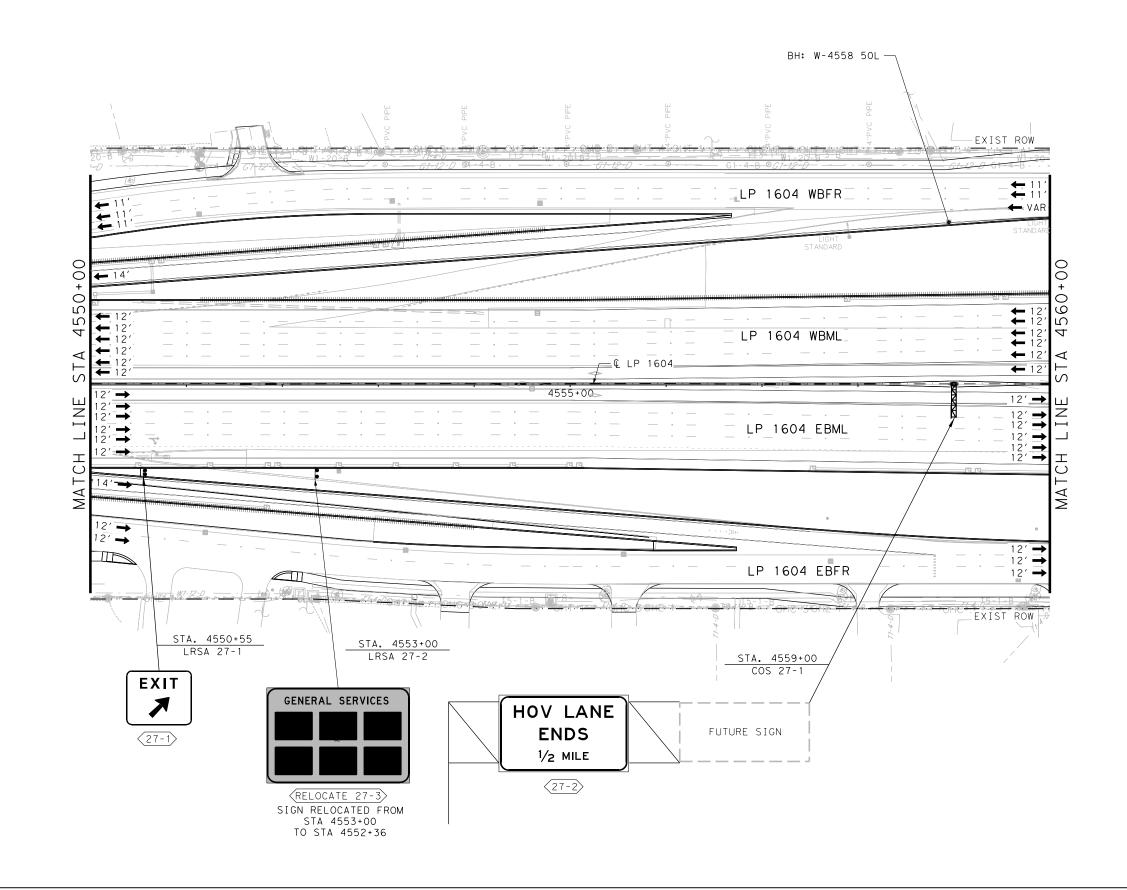
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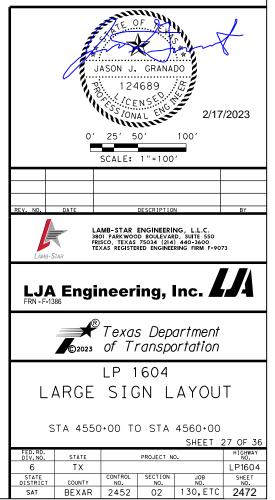


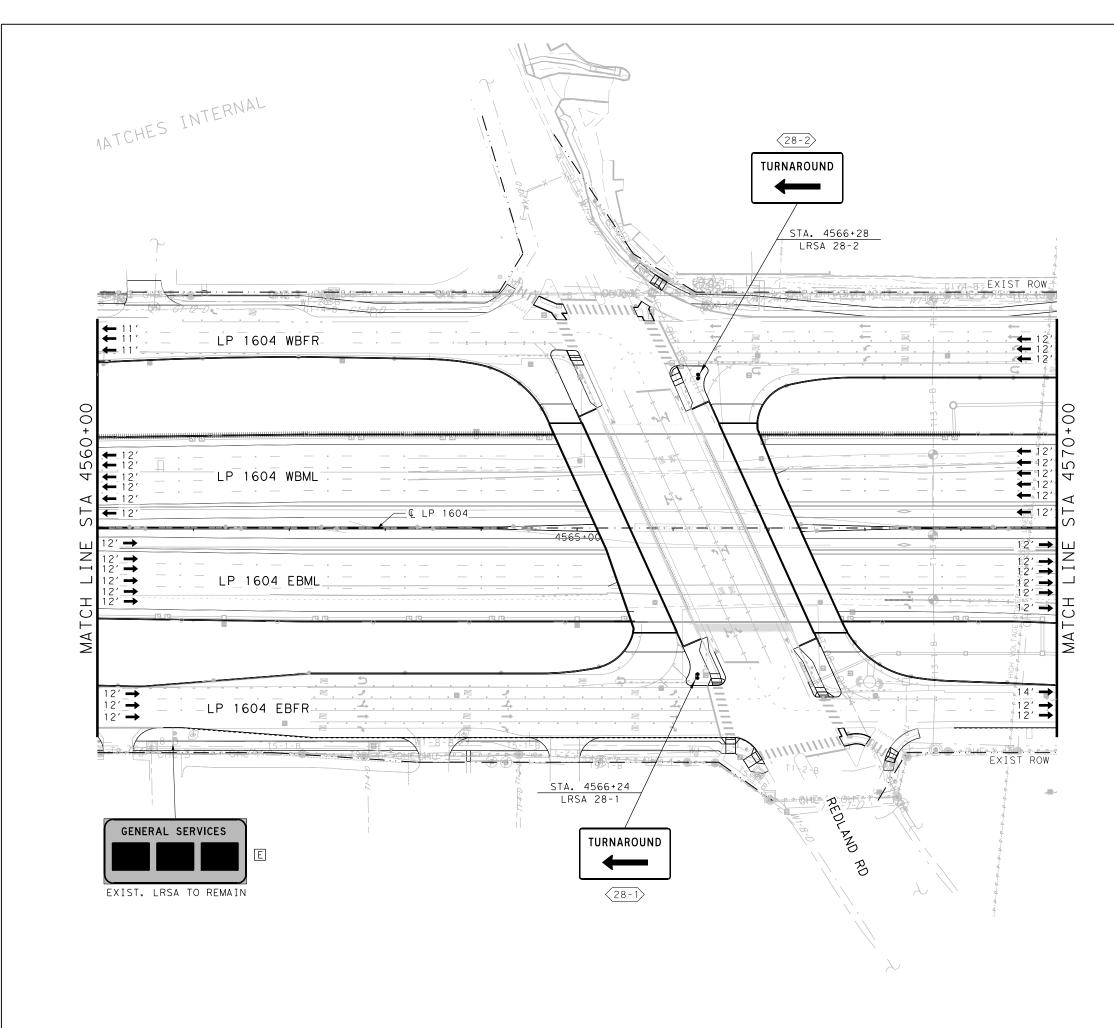
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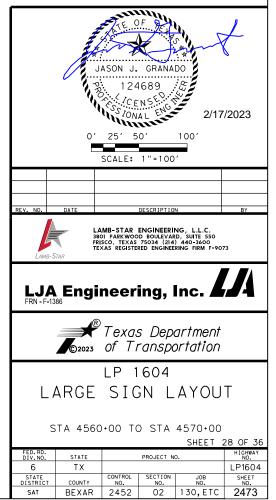


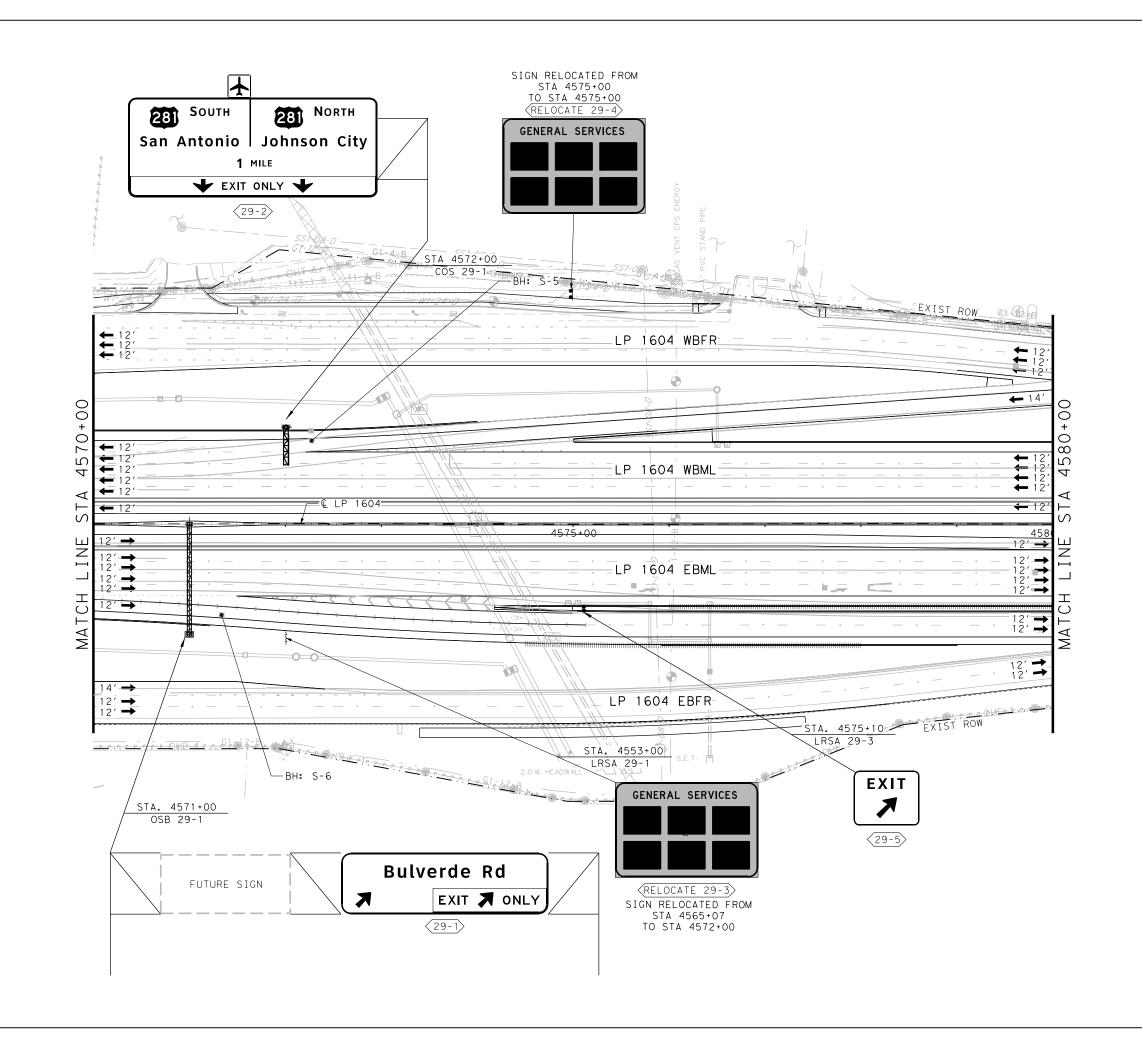
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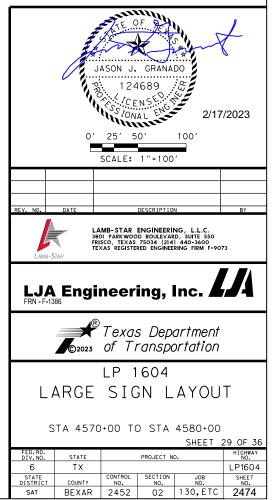


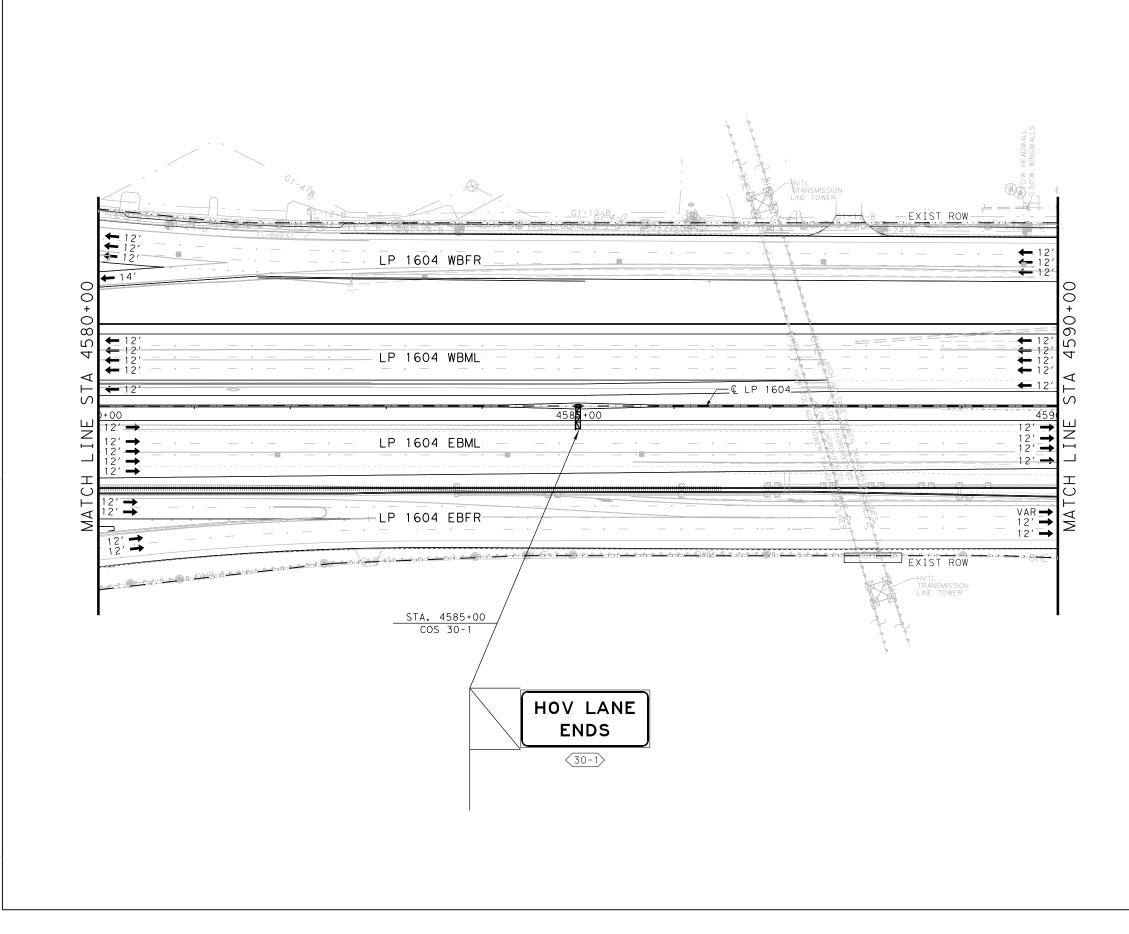
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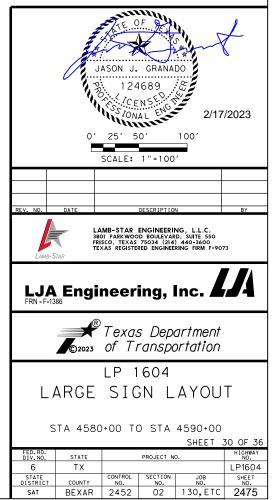


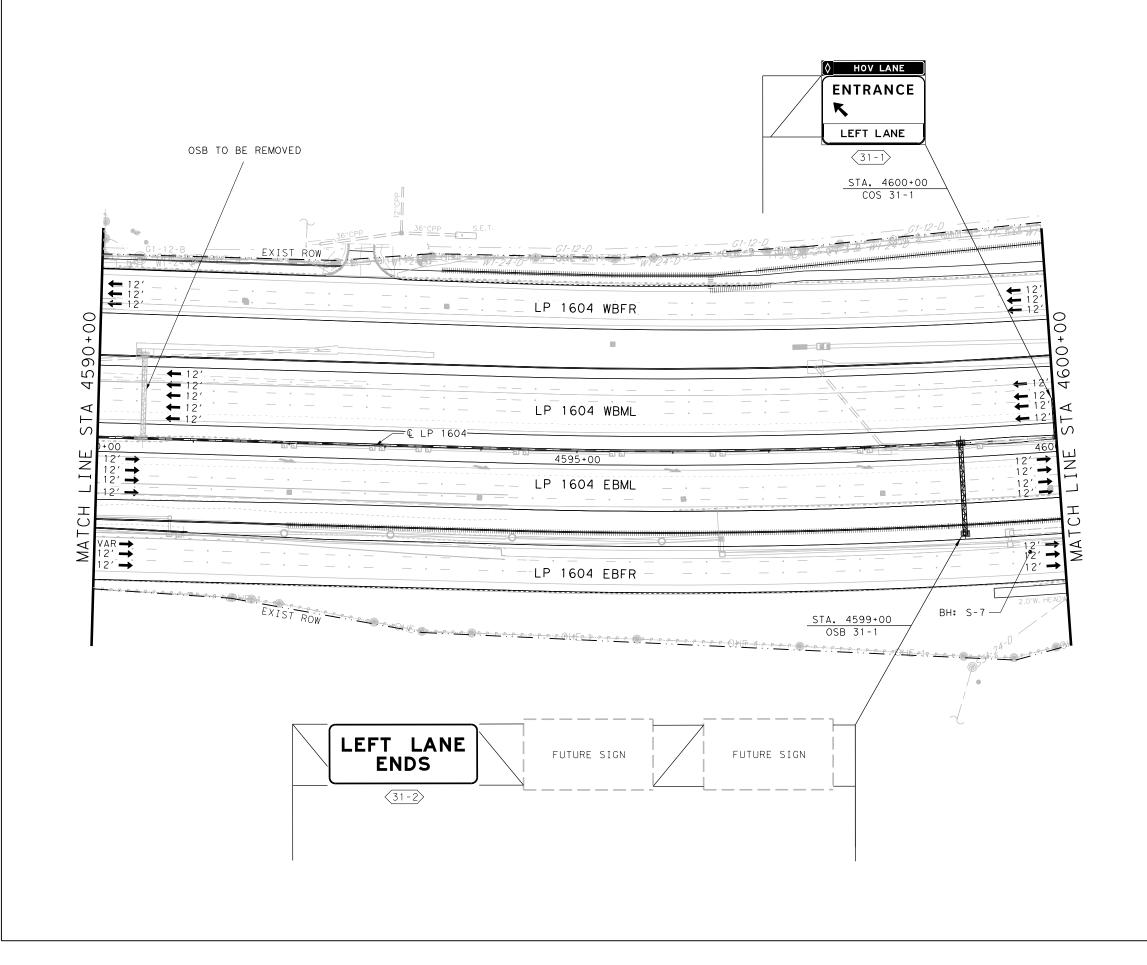
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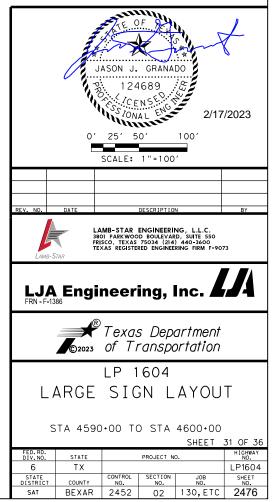


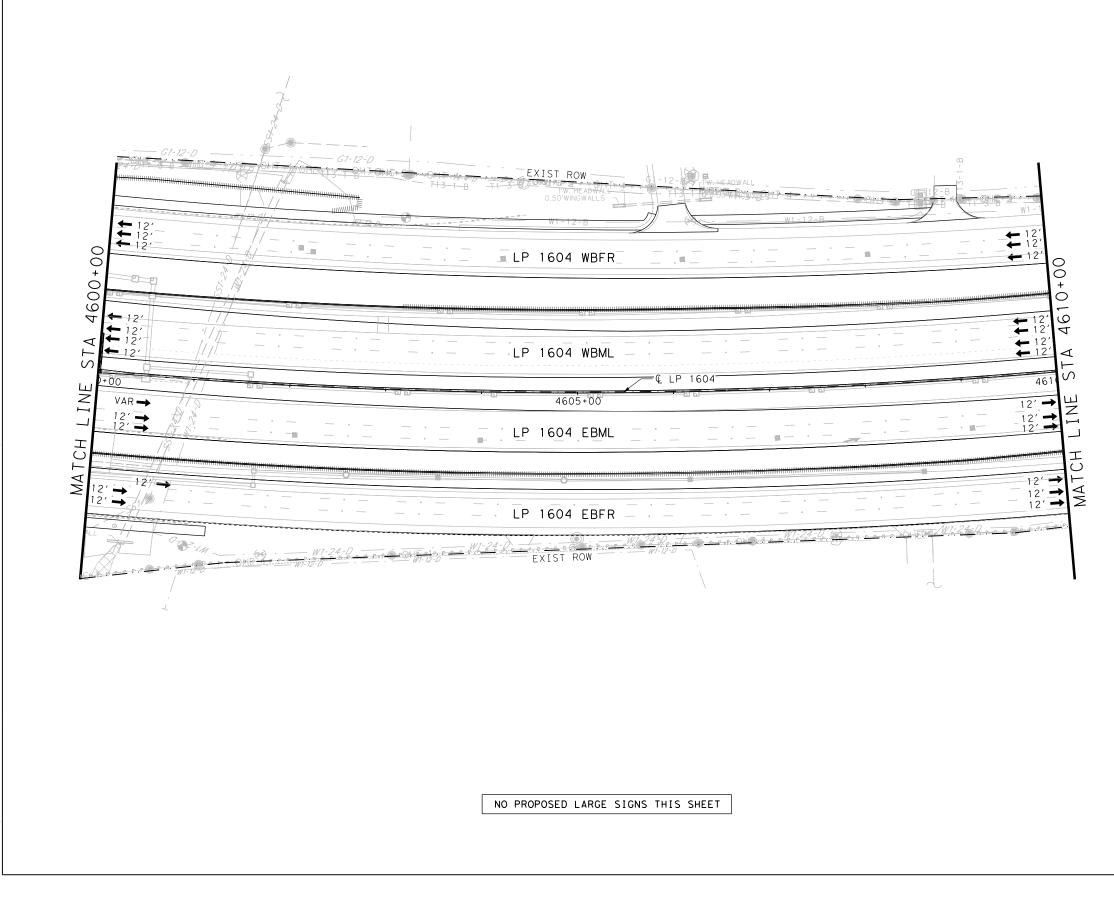
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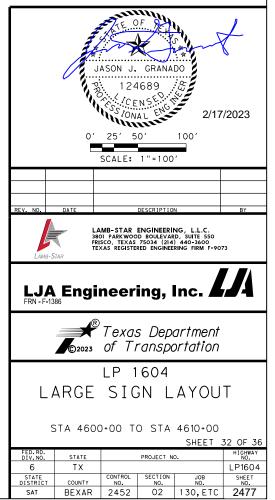
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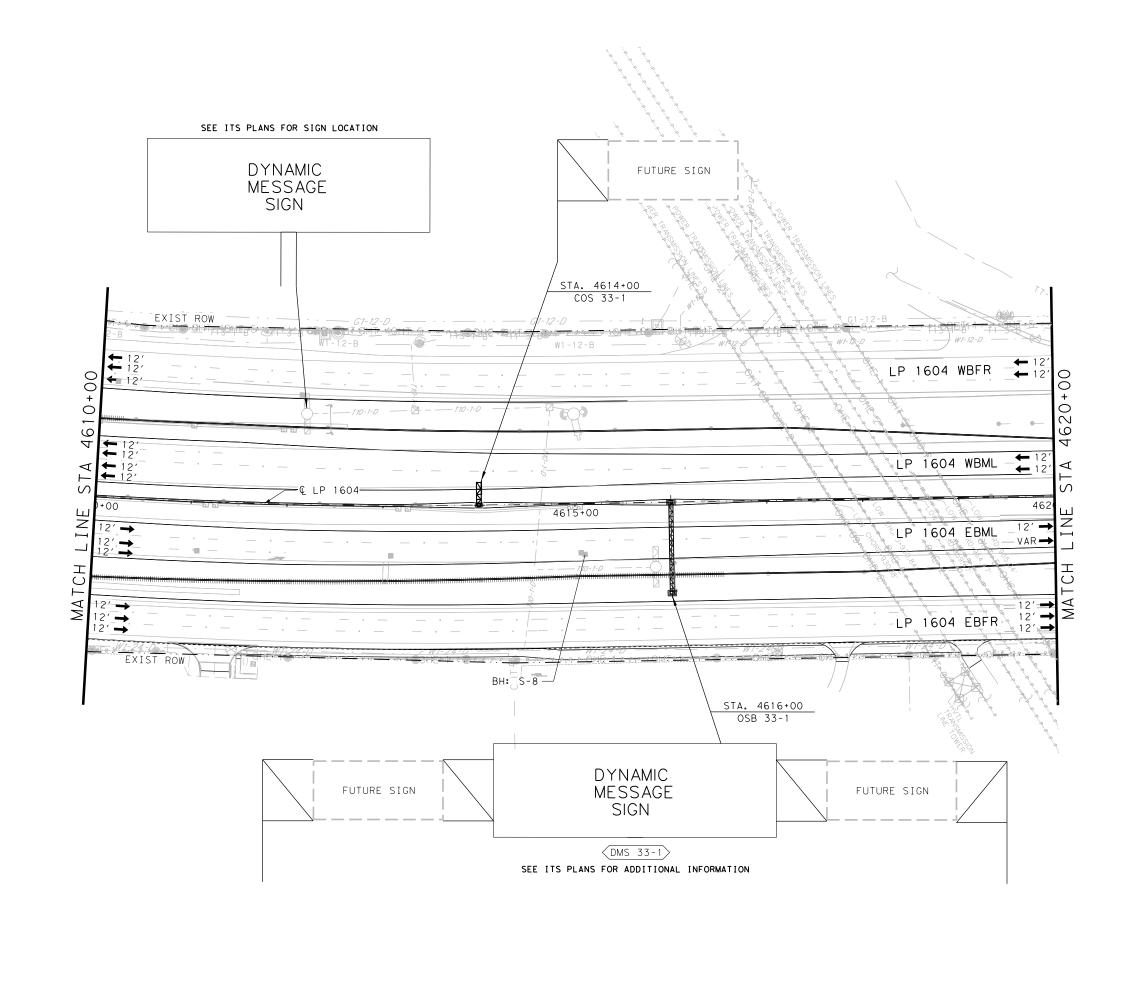
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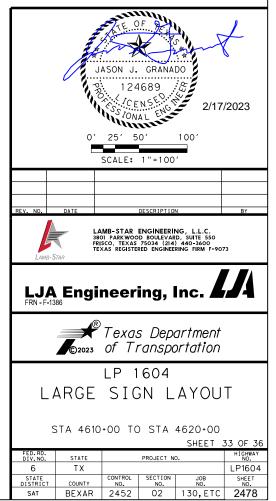
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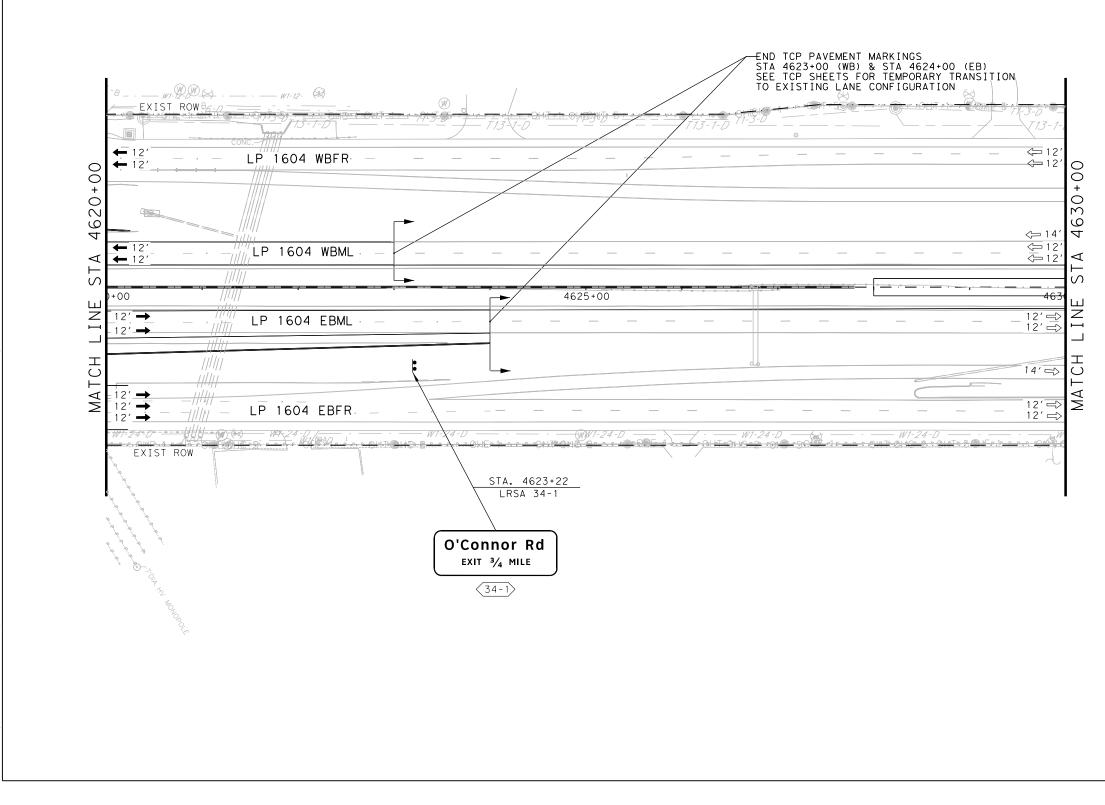
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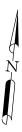
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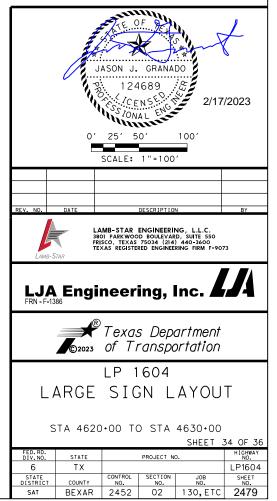


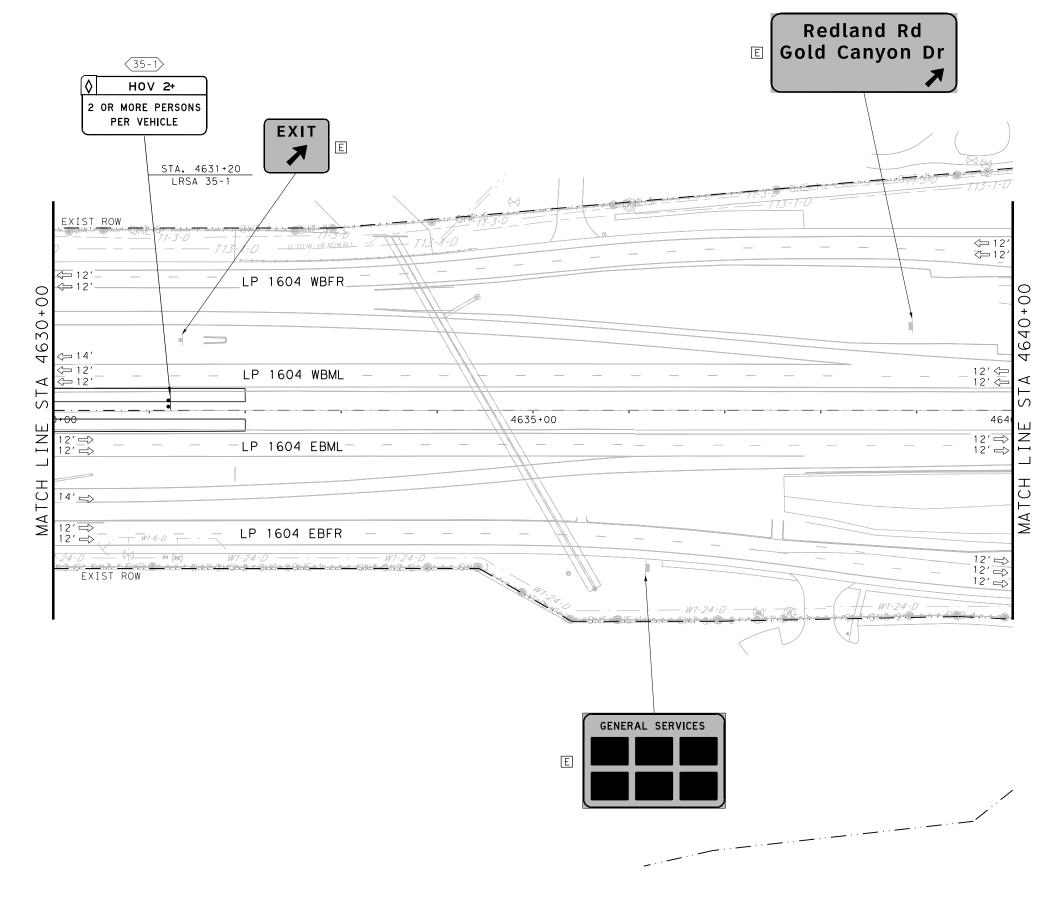
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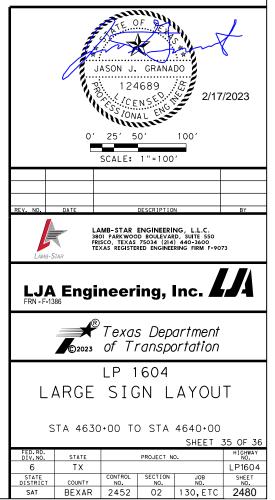


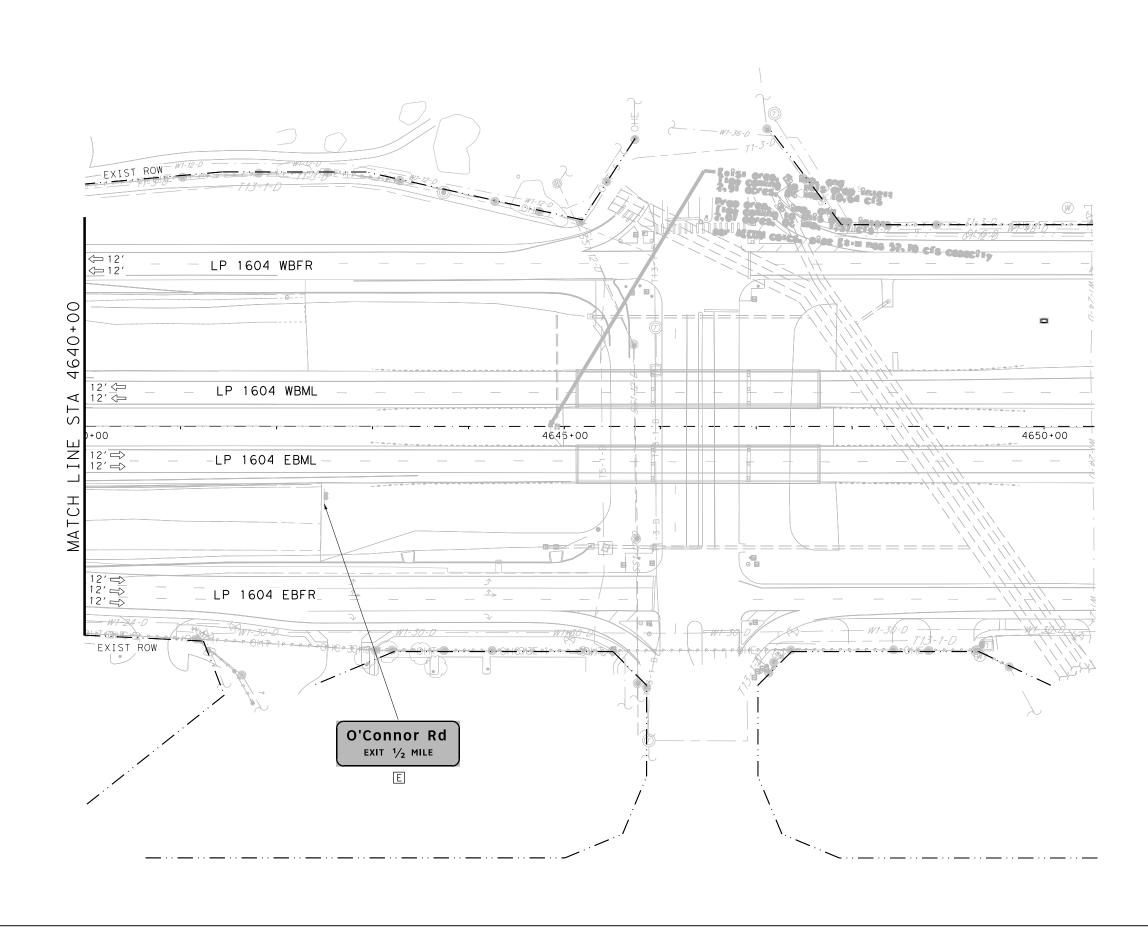
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- UTILITIES SHOWN APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION.





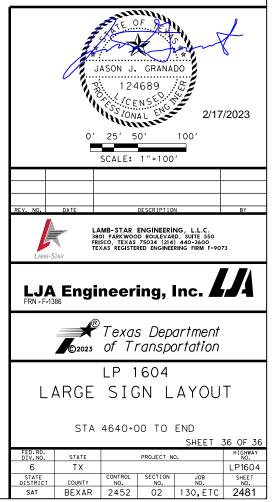
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LEGEND

(X-X) SIGN NUMBER - PROPOSED LARGE SIGN E EXISTING SIGN TO REMAIN

- (X) EXISTING SIGN TO BE REMOVED
- CONCRETE COLUMN SIGN FOUNDATION
- TRAFFIC FLOW ARROW (EXISTING)
- TRAFFIC FLOW ARROW (PROPOSED)

- 1. REFER TO LARGE SIGN DETAIL AND OVERHEAD SIGN ELEVATION SHEETS FOR ADDITIONAL INFORMATION.
- STAKE LOCATION OF THE OVERHEAD SIGN STRUCTURES TO BE APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL INSTALL RIP RAP APRONS AT FOUNDATION LOCATIONS NOT ALREADY IN RIP RAP OR PAVEMENT AREAS. SEE "RIP RAP APRON DETAILS" FOR MORE INFORMATION.
- UTILITIES SHOWN APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION.



STORMWATER POLLUTION PREVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with the TPDES Construction General Permit TXR150000 (CGP). The Texas Department of Transportation (TxDOT) ensures that project specifications include adequate best management practices (BMPs) for this project.

For all projects with any soil disturbing activities, TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office. If no field office is available, then this SWP3 shall be kept in the appropriate TxDOT Area Office.

This SWP3 is consistent with requirements specified in applicable stormwater plans and the projects environmental permits, issues, and commitments (EPICs). A copy of the CGP is included in Attachment 2.12 of the SWP3 binder.

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ): CSJ 2452-02-130, ETC

1.2 PROJECT LIMITS:

From: 2.0 MILES WEST OF US 281

To: REDLAND RD.

1.3 PROJECT COORDINATES:

- BEGIN: (Lat) 29.6087 (N) ,(Long) 98.4941 (W)
- END: (Lat) 29.6004 (N) ,(Long) 98.4229 (W)
- 1.4 TOTAL PROJECT AREA (Acres): 199 AC

1.5 TOTAL AREA TO BE DISTURBED (Acres): 66 AC

1.6 NATURE OF CONSTRUCTION ACTIVITY:

WORK CONSISTING OF EXPAND 4 TO 10 LANE

EXPRESSWAY - INCLUDING 2 HOV-SPECIAL USE LANES; FROM 4 TO 4 FR RDS

1.7 MAJOR SOIL TYPES:

Description	
Description	wider
35% Sand, 33% Silt, 32% Clay Well drained, high rate of runoff, and slight erosion potential.	X Remo
22% Sand, 28% Silt, 50% Clay Well drained, high rate of runoff, and slight erosion potential.	X Install X Install X Install
	X Place X Rewor
	X Blade
	X Reveg
	X Achiev
	Other:
	Other:
	□ Other:
	Well drained, high rate of runoff, and slight erosion potential.22% Sand, 28% Silt, 50% Clay Well drained, high rate of runoff,

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):

PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below: □ PSLs determined during preconstruction meeting

- X PSLs determined during preconstruction
- No PSLs planned for construction

Туре	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:

(Use the following list as a starting point when developing the
Construction Activity Schedule and Ceasing Record in
Attachment 2.5.)
Mobilization
Install sediment and erosion controls
I Blade existing topsoil into windrows, prep ROW, clear and gr
Remove existing pavement
Grading operations, excavation, and embankment
Excavate and prepare subgrade for proposed pavement widening
Remove existing culverts, safety end treatments (SETs)
K Remove existing metal beam guard fence (MBGF), bridge rai
Install proposed pavement per plans
Install culverts, culvert extensions, SETs
🛿 Install mow strip, MBGF, bridge rail
I Place flex base
Rework slopes, grade ditches
Is Blade windrowed material back across slopes
Revegetation of unpaved areas
Achieve site stabilization and remove sediment and
erosion control measures
] Other:
] Other:

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- X Sediment laden stormwater from stormwater conveyance over disturbed area
- \underline{X} Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- X Solvents, paints, adhesives, etc. from various construction activities
- X Transported soils from offsite vehicle tracking
- X Construction debris and waste from various construction activities
- X Contaminated water from excavation or dewatering pump-out water
- X Sanitary waste from onsite restroom facilities
- X Trash from various construction activities/receptacles
- $\ensuremath{\mathbb{X}}$ Long-term stockpiles of material and waste
- □ Other: _____

□ Other: _____

1.11 RECEIVING WATERS:

Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Mudd Creek, Upper Salado Creek	* Salado Creek (1910); (Impaired fish community in water, Impaired macrobenthic community in water)
* Add (*) for impaired waterbodies	s with pollutant in ().
1.12 ROLES AND RESPONSIE	BILITIES: TxDOT
X Development of plans and spec	
X Submit Notice of Intent (NOI) to	o TCEQ (≥5 acres)
X Post Construction Site Notice X Submit NOI/CSN to local MS4	
X Perform SWP3 inspections	
X Maintain SWP3 records and up	date to reflect daily operations
X Complete and submit Notice of	
X Maintain SWP3 records for 3 ye	
Other:	
□ Other:	

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR X Day To Day Operational Control X Submit Notice of Intent (NOI) to TCEQ (≥5 acres) X Post Construction Site Notice X Submit NOI/CSN to local MS4 X Maintain schedule of major construction activities X Install, maintain and modify BMPs X Complete and submit Notice of Termination to TCEQ X Maintain SWP3 records for 3 years □ Other:_____ Other: Other: 1.14 LOCAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OPERATOR COORDINATION: MS4 Entity No MS4s receive stormwater discharge from the site. HUMBERTO CONTRERAS 99213 Wishensey, AC 2/17/2023 Hunlerto Contremo **STORMWATER POLLUTION PREVENTION PLAN (SWP3)** C 2022 Sheet 1 of 2 Texas Department of Transportation SHEET ED. RD. IV. NO. PROJECT NO. 2645 6 STATE STATE COUNTY TEXAS SAT BEXAR CONT. SECT. JOB HIGHWAY NO.

2452

02 130, ETC

LP1604

STORMWATER POLLUTION PREVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- \Box \Box Protection of Existing Vegetation
- □ □ Vegetated Buffer Zones
- X 🛛 Soil Retention Blankets
- Geotextiles
- Image: Mulching / Hydromulching
- □ □ Soil Surface Treatments
- X X Temporary Seeding
- □ X Permanent Planting, Sodding or Seeding
- 🛛 🗆 Biodegradable Erosion Control Logs
- X 🛛 Rock Filter Dams/ Rock Check Dams
- □ □ Vertical Tracking
- Interceptor Swale
- 🛛 🏾 🗛 Riprap
- Diversion Dike
- □ □ Temporary Pipe Slope Drain
- □ □ Embankment for Erosion Control
- Paved Flumes
- □ □ Other:_____
- Other: ______
- □ □ Other:_____

2.2 SEDIMENT CONTROL BMPs:

T / P

- X 🗆 Biodegradable Erosion Control Logs
- □ □ Dewatering Controls
- X 🗆 Inlet Protection
- X 🛛 Rock Filter Dams/ Rock Check Dams
- Sandbag Berms
- X 🛛 Sediment Control Fence
- X 🗆 Stabilized Construction Exit
- □ □ Floating Turbidity Barrier
- □ □ Vegetated Buffer Zones
- □ □ Vegetated Filter Strips
- □ □ Other:_____
- □ □ Other: _____
- □ □ Other:_____
- □ □ Other:_____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

Sediment control BMPs requiring design capacity calculations (See SWP3 Attachment 1.3.):

T / P

- Sediment Trap
 - Calculated volume runoff from 2-year, 24-hour storm for each acre of disturbed area
 - □ 3,600 cubic feet of storage per acre drained
- □ □ Sedimentation Basin
 - □ Not required (<10 acres disturbed)
 - □ Required (>10 acres) and implemented.
 - □ Calculated volume runoff from 2-year, 24-hour storm for each acre of disturbed area

Other:

- $\hfill\square$ 3,600 cubic feet of storage per acre drained
- X Required (>10 acres), but not feasible due to:
 - X Available area/Site geometry
 - □ Site slope/Drainage patterns
 - □ Site soils/Geotechnical factors
 - Public safety

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Туре	Stat	Stationing			
Туре	From	То			
Refer to the Environmental Layo	out Sheets/ SWP?	Lavout Sheets			
located in Attachment 1.2 of this		Edyout Oncolo			
located in Attachment 1.2 of the	00010				

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- X Excess dirt/mud on road removed daily
- X Haul roads dampened for dust control
- $\ensuremath{\mathbb{X}}$ Loaded haul trucks to be covered with tarpaulin
- X Stabilized construction exit
- □ Other:_____
- □ Other:
- □ Other:_____
- □ Other:

2.5 POLLUTION PREVENTION MEASURES:

- X Chemical Management
- X Concrete and Materials Waste Management

Other:_____

- X Debris and Trash Management
- X Dust Control
- X Sanitary Facilities
- Other: ______

□ Other:_____

□ Other:

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

	Тура	Stat	ioning			
	Туре	From	То			
	Vegetated buffer zones are not planned.					
ts						
	Refer to the Environmental Layo	out Sheets/ SWP3	Layout Sheets			

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- X Fire hydrant flushings
- X Irrigation drainage
- X Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- X Potable water sources
- X Springs
- X Uncontaminated groundwater
- $\ensuremath{\mathbb{X}}$ Water used to wash vehicles or control dust
- X Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.5 of this SWP3.

2.9 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.5 of this SWP3.



2/17/2023

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STORMWATER POLLUTION PREVENTION PLAN (SWP3)



Sheet 2 of 2

Texas Department of Transportation

FED. RD. DIV. NO.		PROJECT NO.					
6						2646	
STATE		STATE DIST.		C	COUNTY		
TEXA	S	SAT BEXAR					
CONT.		SECT.	JOB HIGHWAY NO.				
2452	2	02	130,	ETC	LP160)4	

STORMWATER POLLUTION PRE	EVENTION-CLEAN WATER AG	CT SECTION 402	III. CUL <u>TURAL RESOURCES</u>	TPWD Amphibian BM
Texas Pollutant Discharge Eliminati			Refer to TxDOT Standard Specifications in the event historicalissues or	-Project specific loc aquatic features.
Discharge Permit or Construction			archeological artifacts are found during construction. Upon discovery of	-When work is direc
or more acres distrubed soil. Pro erosion and sedimentation in acco		protect for	archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.	sand bars, exposed feasible.
				-Avoid or minimize of
No Action Required	🛛 Required Action		No Action Required I Required Action	for terrestrial amph
	by controlling erosion and sedime	entation in	Action No.	4. TPWD Terrestrial F -Reptiles present mo
accordance with TPDES Perr 2. Comply with the Storm Wate) and ravias when	1.	-Contractors will be
	n or required by the Engineer.	and revise when		encountered. -Inform contractors
	e (CSN) with SW3P information on		2.	area.
	Texas Commission on Environmer ncy (EPA) or other inspectors.	ital Quality (TCEQ),	3.	-For open trenches
4. When Contractor project spe	ecific locations (PSL's) increase dis			areas left uncovere -Avoid or minimize d
to 5 acres or more, Contrac the Engineer.	ctor shall submit Notice of Intent (N	NOI) to TCEQ and	4.	-Due to increased a
5. NOI required: Yes 🛛 No 🗌				should attempt to
Note: If amount of soil disturbance	changes permit requirements may	,	IV. VE <u>GETATION RESOURCES</u>	ground-disturbing a in the project area
	chonges, permit requirements may	chunge.	Preserve native vegetation to the extent practical. Contractor must adhere to Construction Specification Requirements Specs 162,164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.	5. TPWD Bird BMPs -Prior to constructio determine they are
WORK IN OR NEAR STREAMS	S, WATERBODIES AND WETL	ANDS CLEAN WATER	☐ No Action Required	-Do not disturb, dest
ACT SECTIONS 401 AND 4	404 ISACE) Permit required for filling, d	rodaina	No Action Required X Required Action	Nesting season is r -Avoid the removal c
, , ,	potential USACE jurisdictional wate	5 5 7	Action No.	-Prevent the establis and structures pro
such as, rivers, creeks, streams,	, or wetlands.		 Numerous restrictions apply to tree removal activities. See Migratory Bird requirements and Areas of Environmental Concern Table on EPIC Page 3. 	-Do not collect, capt
	all of the terms and conditions ass	sociated with		6. TPWD Bat BMPs
the following permit(s):			2.	-Bats present may in
No Permit Required	- Pre-construction Notice (PCN) n	at Paquirad	3.	Tricolored Bat. -Active bat colonies
			4.	wallcap within an o Road. TPWD recom
Nationwide Permit 14 - PCN				between May to Oc
Other Nationwide Permit Required				
Required Actions: List waters of t	the US permit applies to, location ctices (BMPs) planned to controler		V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.	 -If bats are present rub marks at poten harmed, such as im devices can be inst be used for a minir
1. BE (Lorence Creek)(Cros 2. BH (Mud Creek)(Crossing	-		🗌 No Action Required 🛛 🕅 Required Action	daytime temperatur in the immediate ar recommended to re
3. BI (UT to Elm Creek)(Cr 4. BJ (Elm Creek)(Crossing	ossing 23)		Comply with allEPICs located in Section 8 of the EA and all conditions listed in the BO issued for this project.	-In all instances, avoi communication with
			Action No.	
			 MIGRATORY BIRD NESTS: Schedule construction activities as needed to meet the following requirements: 	
			A. Do not remove or destroy any active migratory bird nests (nests containing eggs and/or flightless birds) at any time of year. If there are any active nests, they shall not be removed until the nests become inactive.	
			B. On/in structures, if there are any active nests, they shall not be removed until all nests become inactive. After inactive nests are removed and/or before nest activity begins, deterrent materials may be applied to the structures to prevent future nest building.	
401 Best Management Practic	ces: (Not applicable if no USA	CE permit)	2. See Item 5 in GeneralNotes.	
Erosion	Sedimentation	Post-Construction TSS	3. TPWD Amphibian BMPs	
🗙 Temporary Vegetation	🔀 Silt Fence	Vegetative Filter Strips	-Amphibians present may include Cascade Caverns Salamander, Comal Blind Salamander, Strecker's	
Blankets/Matting	🗙 Rock Berm	Retention/Irrigation Systems	Chorus Frog, Texas Salamander, Woodhouse's Toad. -Contractors will be advised of potential occurrence in the project area, and to avoid harming the	
Mulch	Triangular Filter Dike	Extended Detention Basin	species if encountered.	
Sodding	Sand Bag Berm	Constructed Wetlands	-When work is in water or will permanently impact a water feature and potential habitat exists for the target species complete the following:	
Interceptor Swale	Straw Bale Dike	Wet Basin	-Minimize impacts to wetland, temporary and permanent open water features, including depressions,	
Diversion Dike	Brush Berms	Erosion Control Compost	and riverine habitats. -Maintain hydrologic regime and connections between wetlands and other aquatic features.	
Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks	-Use barrier fencing to direct animal movements away from construction activities and areas of	
Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks	potential wildlife-vehicle collisions in construction areas directly adjacent, or that may directly	
Compost Filter Berm and Socks	Compost Filter Berm and Socks	Vegetation Lined Ditches	impact, potential habitat for the target species. -Use erosion control blankets or mats that contain no netting, or only contain loosely woven natural	
	Stone Outlet Sediment Traps	Sand Filter Systems	fiber netting is preferred. Plastic netting should be avoided to the extent practicable.	
	Sediment Basins	Sedimentation Chambers		
	_			

Ps (Continued)

ations (PSLs) proposed within state-owned ROW should be located in uplands away from

ly adjacent to the water, minimize impacts to shoreline basking sites (e.g., downed trees, bedrock) and overwinter sites (e.g., brush and debris piles, crayfish burrows) where

isturbing or removing downed trees, rotting stumps, and leaf litter, which may be refugia ibians, where feasible.

Reptile BMPs

y include Texas Garter Snake and Tamaulipan Spot-tailed Earless Lizard advised of potential occurrence in the project area, and to avoid harming the species if

that if reptiles are found on the project site allow species to safely leave the project

and excavated pits, install escape ramps at an angle of less than 45 degrees (1:1) in ed. Visually inspect excavation areas for trapped wildlife prior to backfilling. disturbing or removing downed trees, rotting stumps, and leaf litter where feasible. activity (mating) of reptiles during the spring, construction activities like clearing or grading be scheduled outside of the spring (April-May) season. Also, timing conducting activities before October, when reptiles become less active and may be using burrows h, is also encouraged.

on, perform daytime surveys for nests, including under bridges and in culverts, to e not active before removal. Nests that are active should not be disturbed. troy, or remove active nests, including ground-nesting birds, during the nesting season. recognized at the TxDOT San Antonio District as: From February 15th to October 1st. of unoccupied, inactive nests, as practicable.

shment of active nests during the nesting season on TxDOT owned and operated facilities posed for replacement or repair.

ure, relocate, or transport birds, eggs, young, or active nests without a permit.

nclude: Big Brown Bat, Cave Myotis, Eastern Red Bat, Hoary Bat, Mexican Free-Tailed Bat,

were identified at a large atypical arch culvert (anticipated to remain) and a retaining n-ramp of Loop 1604 (may require removal) near UPRR bridges, FM 2252 and Lookout mends that any work at either location be performed outside of the young rearing period tober to avoid impacts to bats, particularly when young bats are non-volant.

or recent signs of occupation (i.e., piles of guano, distinct musky odor, or staining and ntial entry points) are observed, take appropriate measures to ensure that bats are not iplementing non-lethal exclusion activities or timing or phasing of construction. Exclusion talled by a qualified individual between September 1 and March 31. Exclusion devices should mum of seven days when minimum nighttime temperatures are above 50°F and minimum res are above 70°F. Prior to exclusion, ensure that alternate roosting habitat is available rea. If no suitable roosting habitat is available, installation of alternate roosts is eplace the loss of an occupied roost.

June 1

id harm or death to bats. Bats should only be handled as a last resort and after $\scriptstyle\rm 1$ TPWD.

HUMBERTO CONTREPA B 99213 CENSEO VONAL ENO			16/2023 lecto In	trem	A (
Texas Depo San Antoni				portai	tion
ENVIRONMENTAL PERMITS,					
ISSUES AND COMMITMENTS					
EPIC					
FILE: epic 2015-10-09 SAJ.dgn	dn: TxD	OT	CK: TxDOT DW:	BW	ск: GAG
© TxDOT OCTOBER 2015		SECT	JOB		GHWAY
REVISIONS	2452	02	130, ETC		P1604
	DIST		COUNTY		SHEET NO.
	SAT		BEXAR		2647

7. TPWD BMPs for Plains Spotted Skunk, Western Hog-nosed Snake, Western Spotted Skunk -Contractor is advised of potential occurrence in the project area, and to avoid harming the species if encountered, and to avoid unnecessary impacts to dens.

If any of the listed species are observed, cease work in the immediate area. do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the Engineer immediately.

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain an adequate supply of on-site spillresponse materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:

- * Dead or distressed vegetation (not identified as normal)
- Trash piles, drums, canister, barrels, etc.
- Undesirable smells or odors.
- * Evidence of leaching or seepage of substances

Hazardous Materials or Contamination Issues Specific to this Project:

No Action Required

Required Action

Action No.

1. CONTRACTOR WASTE AND MATERIALS MANAGEMENT PLAN (CWMP)

-The project area includes the Edwards Aquifer Recharge Zone, and the construction directly overlies the water table of the regional drinking water supply aquifer. The groundwater can carry pollutants over 1 mile per day to water wells. Numerous water wells are located near the project. The aguifer is vulnerable to spills of chemicals and sanitary waste.

-Contractor will prepare and implement a CWMP to prevent, avoid, minimize, and clean up any spills associated with materials, waste and equipment that the Contractor brings onto the project area or generates within the project area with an emphasis on chemicals and sanitary wastes. -CWMP will address measures to prevent spills of chemicals associated with construction materials.

waste and equipment and to prevent damage to all sanitary sewer facilities including sanitary sewer lines, manholes, lift stations and power supply, force mains, valves, and related appurtenances. Maintain labelling and protection all sanitary waste facilities in the ROW. CWMP will list chemicals which will be brought onto State ROW by Contractor with relevant health and safety data and protection measures for each CWMP willinclude measures to respond to spills.

-CWMP will identify on-site personnel responsible for daily implementation and enforcement, including contact information.

-Contractor to provide CWMP training to allon-site personnelonce every 365 days and invite TxDOT personnel (five business days notice) to each training event. Contractor is to maintain copies of training records on-site and provide records upon request.

-TxDOT will not permit storage of any quantity of hazardous materials, such as a one- quart container of oil, in state ROW in the Edwards Aquifer Contributing, Recharge and Transition Zones during construction. TxDOT's expectation of the contractor is that no containers of non-potable liquids other than non-potable clean water, would be left outside the confines of a vehicle unattended. -The contractor must immediately report spills including sanitary sewer discharge to TxDOT and to the

followina: EPA National Response Center (800) 424-8802

State Emergency Response Commission (800) 832-8224 TCEQ Regional Office (210) 490-3096

Edwards Aquifer Authority (210) 222-2204

San Antonio Water System (210) 704-7297

Does the project involve the demolition of a span bridge? 🗙 Yes No (No further action required)

If "Yes", a pre- demolition notification must be submitted to the Texas Department of State Health Services. The contractor shall contact TxDOT's Project Engineer 25 calendar days prior to the demolition of the bridges(s) on the project to assist with the notification.

VII. OTHER ENVIRONMENTAL ISSUES

(includes regionalissues such as Edwards Aquifer District, etc.)

No Action Required Required Action

Action No.

1. NOTE TO CONTRACTOR

Please be advised that the project is located within a known area of Karstic Limestone and the Karst features may be impacted throughout construction for the entire project limits.

2. TRAINING REQUIREMENTS

1) Karst Trainina

-TxDOT will provide karst training to the Contractor following the preconstruction meeting and will provide additional training events at locations provided by Contractor and approved by TxDOT. Request training 5 business days in advance.

-Contractor is to ensure allon-site personnel involved with soil disturbance (excavation, grading, trenching, drilling, etc) including subcontractors attend karst training once every 365 days. -No soil disturbance may occur in the presence of personnel lacking documentation of karst training requirements.

-Contractor is to maintain copies of training records on-site and provide records upon request.

2) Contractor Waste and Materials Management (CWMP) Training

-Contractor will provide CWMP training to all on-site personnel once every 365 days and invite $\mathsf{Tx}\mathsf{DOT}$ personnel (five business days) to each training event.

-Contractor is to ensure all personnel including subcontractors attend CWMP training once per calendar year.

-Contractor is to maintain copies of training records on-site and provide records upon request.

3. KARST FEATURE STOP WORK REQUIREMENTS

-If karst features (i.e., caves, solution cavities, voids, holes, openings in rock, etc) are discovered, immediately stop work within 50 feet of the opening except as necessary to protect the feature. Notify TxDOT within 12 hours.

-Cover opening with wood or plastic to protect feature from ambient air temperature and humidity. Add insulation if temperatures exceed 100°F.

-Add sandbags or berms to prevent runoff from entering the opening. Place fence or barricades around feature for public safety.

-Do not drive equipment when scientists are inside feature.

-TxDOT will provide scientists to evaluate the feature and will provide direction to the contractor regarding the disposition of feature and notice when work may resume. The duration of the stop work requirement is indefinite depending upon findings and resource agency coordination. -Features may require management under the Endangered Species Act and Edwards Aquifer Rules

under the jurisdiction of the USFWS and TCEQ, respectively. -TxDOT must notify TCEQ within 24 hours after a professional geologist determines a feature is classified as "sensitive" and TxDOT must obtain TCEQ approval of a feature disposition plan.

-Features determined potential habitat under USFWS requirements may require frequent visits (presence-absence surveys) to inspect for listed species. Features which are too small or unsafe to enter may require baiting every 2-3 days for approximately 2-3 weeks. Features which can be safely entered may require entry every 2-3 days for approximately 4-5 weeks. Results of surveys may affect feature disposition plans.

4. PROJECT SPECIFIC LOCATIONS (PSLs)

On-ROW PSLs

-The Contractor may not locate any PSLs such as offices and storage yards on TxDOT ROW within 300 feet of any known listed species location or potential Golden Cheeked Warbler (GCW) habitat. See Environmental Features sheets.

-TxDOT is required to submit information regarding on-ROW PSLs to TCEQ's Edwards Aquifer Program for review and approval before installation. TCEQ sensitive features and floodplain should be avoided to facilitate TCEQ approval. TCEQ sensitive features are shown on the Environmental Features sheets in the construction plans.

-Locations of listed species and TCEQ sensitive features are subject to change with time. New karst features may be discovered.

Off-ROW PSLs

- -The Contractor is responsible for compliance on PSLs located outside the ROW.
- -The Contractor is required to provide information to TxDOT on Contractor PSLs located outside the TxDOT ROW
- -TxDOT is required to submit information regarding off-ROW PSLs to TCEQ5's Edwards Aquifer Program for approval before installation.
- -USFWS requires TxDOT to provide information to contractor to facilitate contractor compliance with the Endangered Species Act (ESA).
- -Potential Golden-cheeked Warbler (GCW) habitat within 300 feet of the project area is shown on the Environmental Features layouts in the construction plans. Potential GCW habitat may be located beyond the areas shown in layouts.

Off-ROW PSLs (Continued) -Potential karst invertebrate habitat is located in the project area and surrounding portions of Bexar County. Karst Zone 1 includes areas that are known to contain listed species. Karst Zone 2 includes areas that probably contain listed species. -Information on compliance with issues such as Karst Invertebrate Endangered Species and the Edwards Aquifer is available on USFWS and TCEQ websites. https://www.fws.gov/southwest/es/AustinTexas/ESA_Sp_KarstInverts.html*Karst_zones

5. TPWD Water Quality BMPs

6. See EPIC sheet 3 of 3 for table summarizing areas of environmental concern.

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-Minimize the use of equipment in streams and riparian areas during construction. When possible, equipment access should be from banks, bridge decks, or barges.

-When temporary stream crossings are unavoidable, remove stream crossings once they are no longer needed and stabilize banks and soils around the crossing.

7. Asbestos-Containing Material and Lead-Containing Paint Inspection Reports are available for each bridge to be modified by the project. Concentration of lead were identified in the paint on the bridges shown in the Areas of Environmental Concern Table

The contractor is responsible to identify locations on the bridges that will require torch cutting, grinding, sawing, etc. Once the locations are identified, the contractor shall notify the project engineer.

TxDOT will be responsible for contracting a specialty contractor to spot abate these locations by stripping the paint in accordance with TxDOT 2014 Standard Specification 6.10 and TxDOT Bridge Division Special Provision SP 006-30 and SP 006-31 prior to dismantling the bridge.

The contract shall only torch cut, grind, or saw steel elements at locations where the lead containing paint has been stripped back to expose uncoated steel.

The contractor will be responsible for recycling the portions of the bridge that contain lead containing paint in accordance with all applicable state and federal guidelines including item 6.10 - Removal & Disposal of Painted Steel (2014 Standard Specifications).

Contractor shall develop a containment plan for lead paint waste to be submitted to TxDOT for review and approval. This applies to any activity that may generate lead paint waste such as surface preparation, washing, pressure washing, etc.

8. Special Requirements For Features Found In Joint-Bid Sanitary Sewer Excavations. TxDOT is responsible for notifying TCEO and SAWS if any sensitive features are encountered in joint-bid sanitary sewer

TxDOT is also responsible for endangered species habitat assessments and species surveys, as needed. In the event that endangered or presumed endangered species are found, TxDOT and SAWS shall work cooperatively to develop a plan that is compliant with the project's Endangered Species Act requirements

SAWS is responsible for preparing and obtaining TCEQ approval of sensitive feature closure plans for features found in joint bid sanitary sewer excavations. TxDOT will implement the TCEQ approved closure

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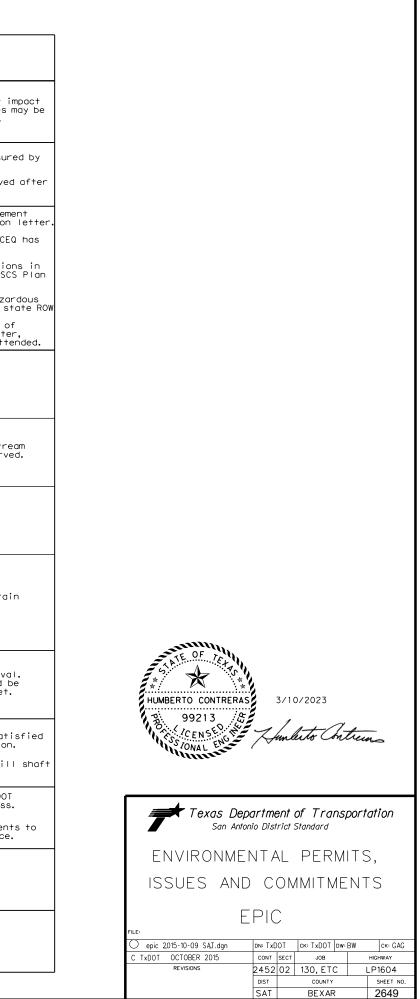
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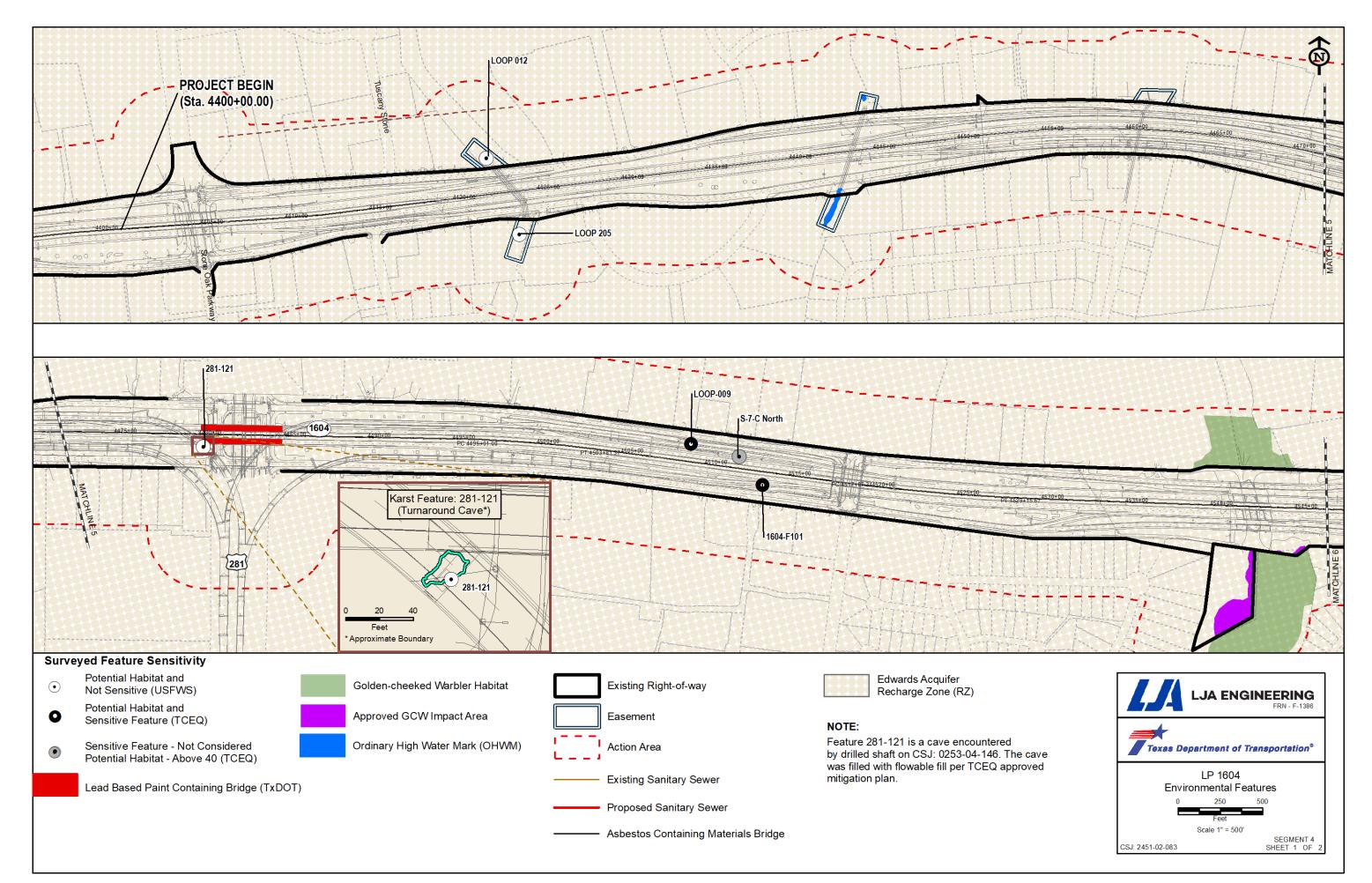
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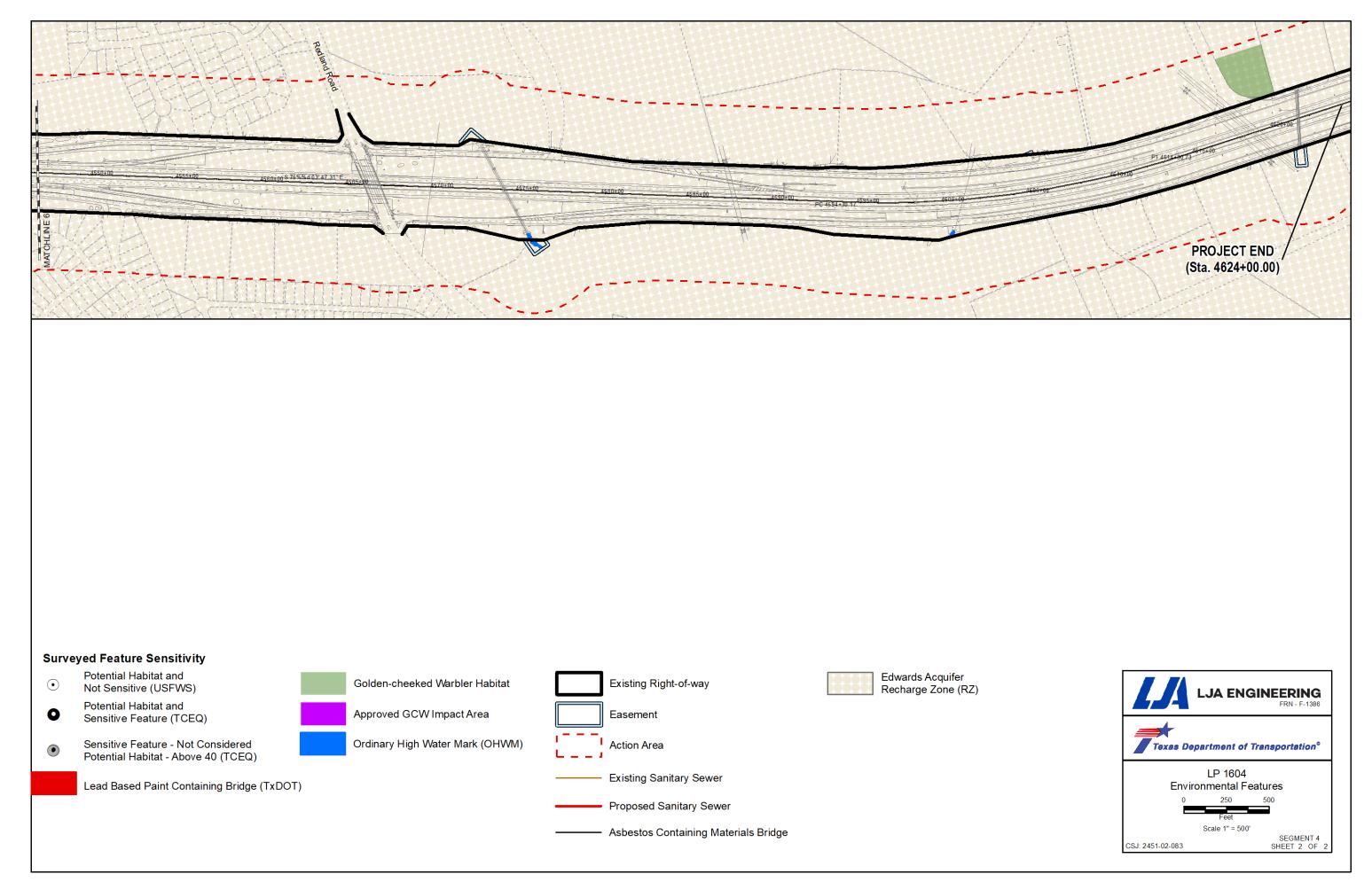
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AREAS OF ENVIRONMENTAL CONCERN						
Feature Name and description	Location	Access	Instructions			
Potential Golden-cheeked Warbler (GCW) Habitat	Patches throughout project area. See Environmental Features Sheet 1 of 2.	Limited	Access permitted to remove trees from GCW habitat in areas shown on Environmental Features sheets. Trees removed after August 31 and before March 1.			
Trees within 300 feet of potential GCW Habitat	Trees subject to criteria throughout project area.	Limited	Distance between trees and GCW habitat to be measur contractor. Trees within 300 feet of habitat areas may be removed August 31 and before March 1.			
Edwards Aquifer Recharge Zone,			Comply with the TCEQ-approved Water Pollution Abateme Plan (WPAP) and conditions in the TCEQ authorization Maintain copies of WPAP and letter on-site. Ground disturbing activities may not commence until the TCEC approved the WPAP.			
Contributing Zone and Transition Zone	Patches throughout project area. See Environmental Features Sheets.	Limited	Comply with SAWS TCEQ-approved SCS Plan and condition the TCEQ authorization letter. Maintain copies of SCS and letter on-site. TxDOT will not permit storage of any quantity of hazar materials, such as a one- quart container of oil, in st in the CZ, RZ, or TZ during construction. TxDOT*s expectation of the contractor is that no containers of non-potable liquids other than non-potable clean water would be left outside the confines of a vehicle unatter			
LOOP-012 TCEQ Sensitive Features	Upstream Easement - Lorence Creek Tributary WPAP Site Plan Sheet 3 OF 23		Feature is upstream of soil disturbance.			
LOOP-205 TCEQ Sensitive Features	Downstream Easement - Lorence Creek Tributary WPAP Site Plan Sheet 3 OF 23		Maintain temporary erosion control in ROW upstre of feature. Feature to be protected and preserve			
LOOP-009 TCEQ Sensitive Features	Between WBML and WBFR West of Gold Canyon Dr. WPAP Site Plan Sheet 12 OF 23		Protect feature until it is removed.			
S-7-C NORTH TCEQ Sensitive Features Engineered drain to an underground cave designed by ARMA. The only surface expression of the feature is a grate inlet with a 3 in. liameter PVC pipe inlet below the grate. Refer to karst closure feature closure sheet 982 for an illustration of the feature relative to the previously closed cave.	Between WBML and existing exit ramp located just West of Gold Canyon Dr. WPAP Site Plan Sheet 12 OF 23	Limited	Contractor is to protect and preserve this drain inlet feature.			
1604-F101 TCEQ Sensitive Features	In ROW Along EBFR West of Gold Canyon Dr. WPAP Site Plan Sheet 12 OF 23		Feature was previously sealed with TCEQ approval Excavation may reopen it; and if so, it would by resealed. Refer to karst closure detail sheet.			
Ordinary high-water marks (OHWM). Stream boundaries where US Army Corps of Engineers may have jurisdiction	Various locations in ROW and easements See Environmental Features sheets	Limited	Access permitted if NWP 14 terms and conditions sati without requiring preconstruction notification. Minimize placement of dredge and fill including drill cuttings in OHWM.			
TxDOT channel and drainage easements	Various	None	Numerous issues in easements. Consult with TxDOT Environmental Specialist for any easement access. TxDOT must survey for Seymeria texana in easement confirm presence or absence prior to disturbance.			
US 281 Underpass Widening at LP 1604 WBML	15-015-0-0253-04-105	Unrestricted	(430 ppm lead paint)			
US 281 Underpass Widening at LP 1604 EBML	15-015-0-0253-04-251	Unrestricted	(1030 ppm lead paint)			







Texas Commission on Environmental Quality Water Pollution Abatement Plan General Construction Notes

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

- A written notice of construction must be submitted to the TCEQ regional office at least 48 1. hours prior to the start of any regulated activities. This notice must include:
 - the name of the approved project;
 - the activity start date; and
 - the contact information of the prime contractor.
- All contractors conducting regulated activities associated with this project must be provided 2. with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
- 3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.
- No temporary or permanent hazardous substance storage tank shall be installed within 150 4. feet of a water supply source, distribution system, well, or sensitive feature.
- 5. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
- Any sediment that escapes the construction site must be collected and properly disposed of 6. before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
- 7. Sediment must be removed from the sediment traps or sedimentation basins not later than

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when it occupies 50% of the basin's design capacity.

- 8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- 9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
- If portions of the site will have a temporary or permanent cease in construction activity lasting 10. longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
- The following records shall be maintained and made available to the TCEQ upon request: 11 - the dates when major grading activities occur;
 - the dates when construction activities temporarily or permanently cease on a portion of the site: and
 - the dates when stabilization measures are initiated.
- The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
 - any physical or operational modification of any water pollution abatement structure(s), Α. including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - Β. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

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THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

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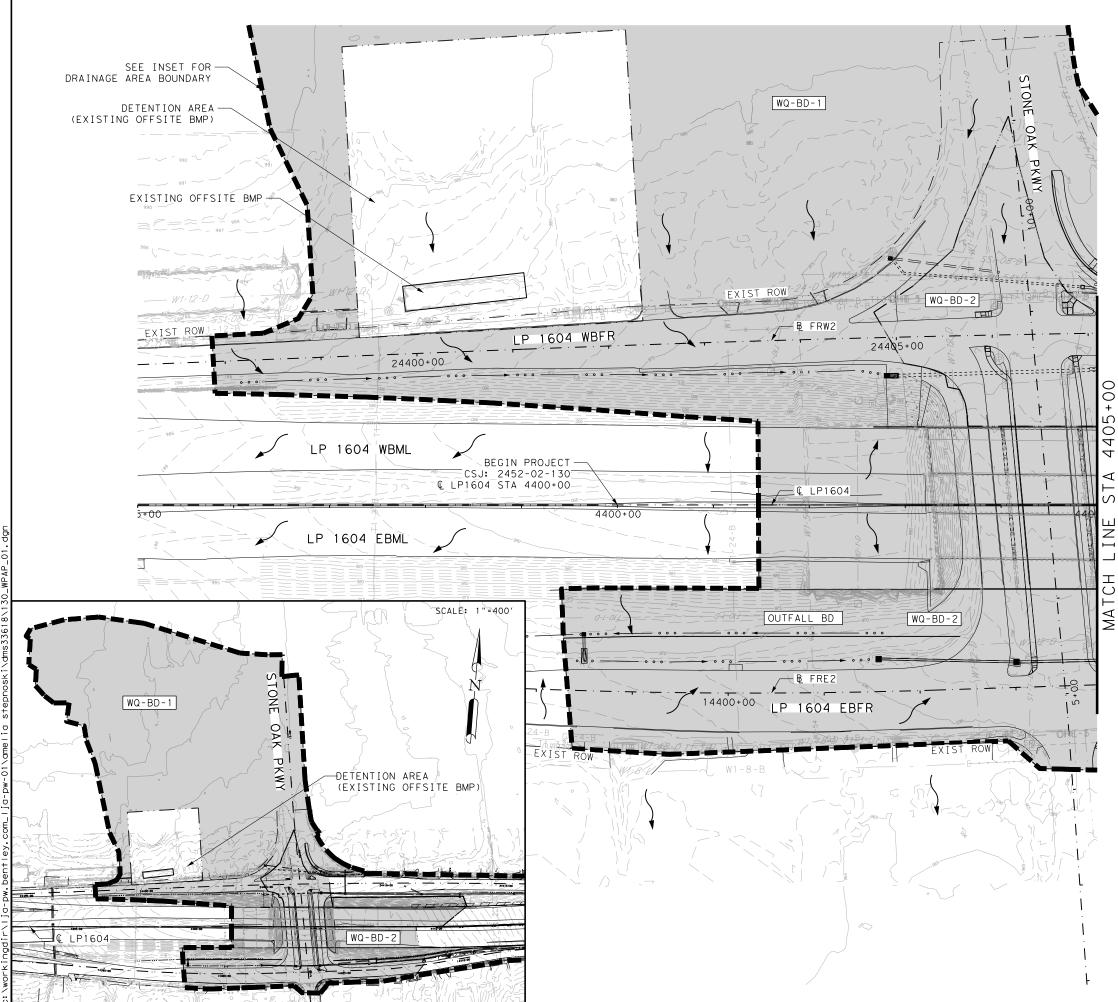
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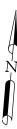


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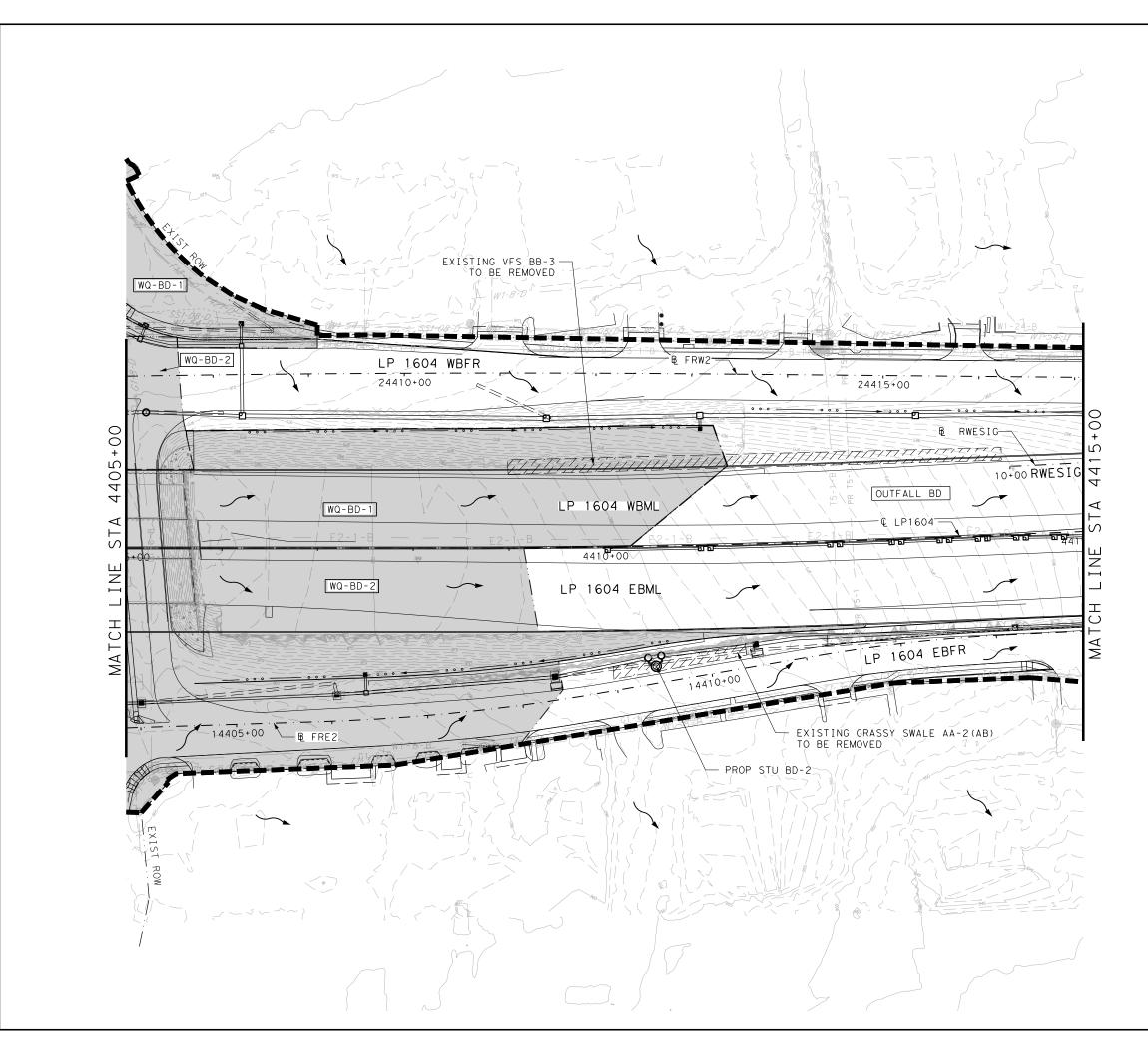
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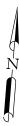
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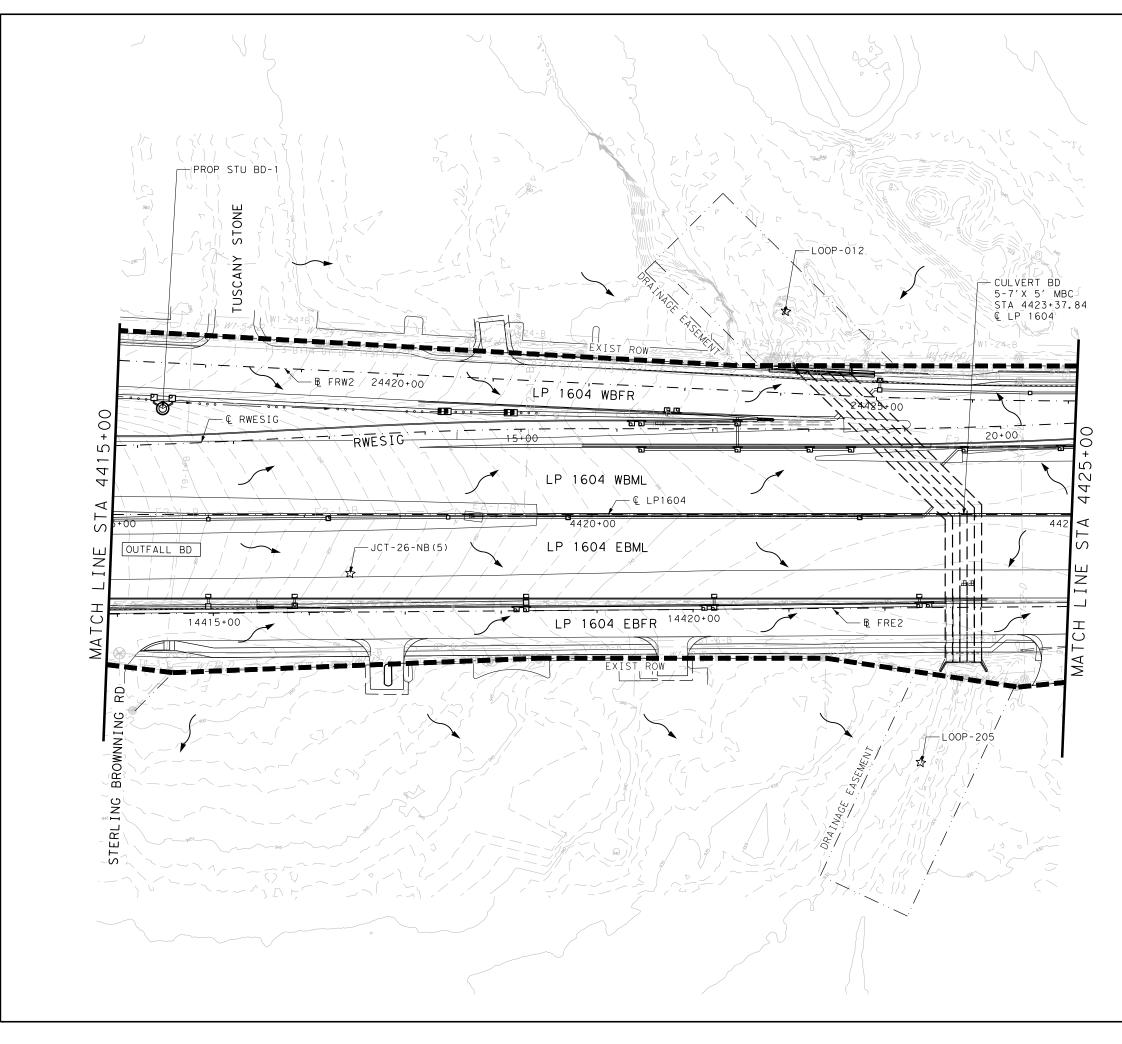
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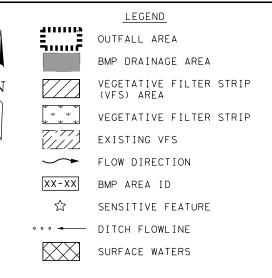
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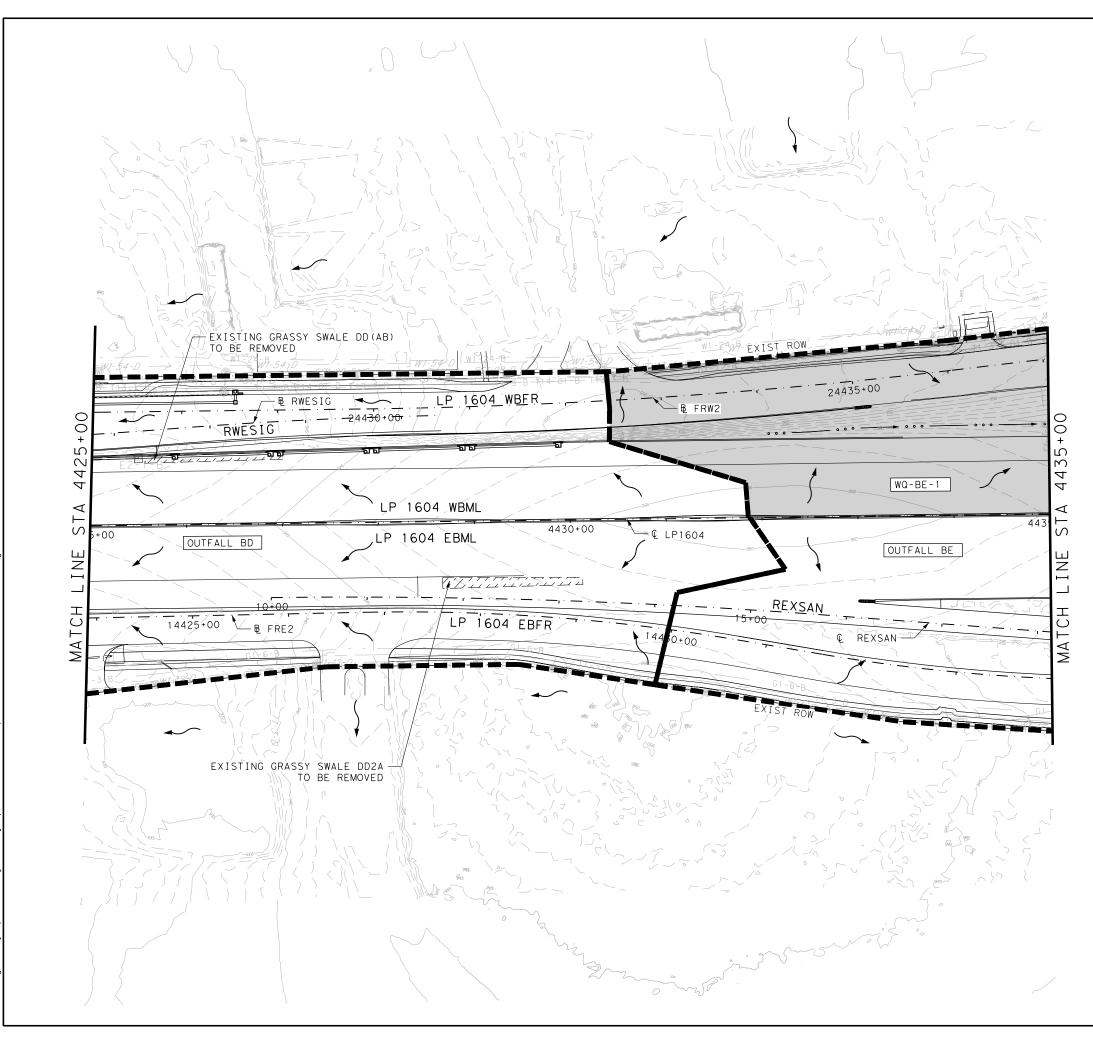


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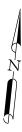


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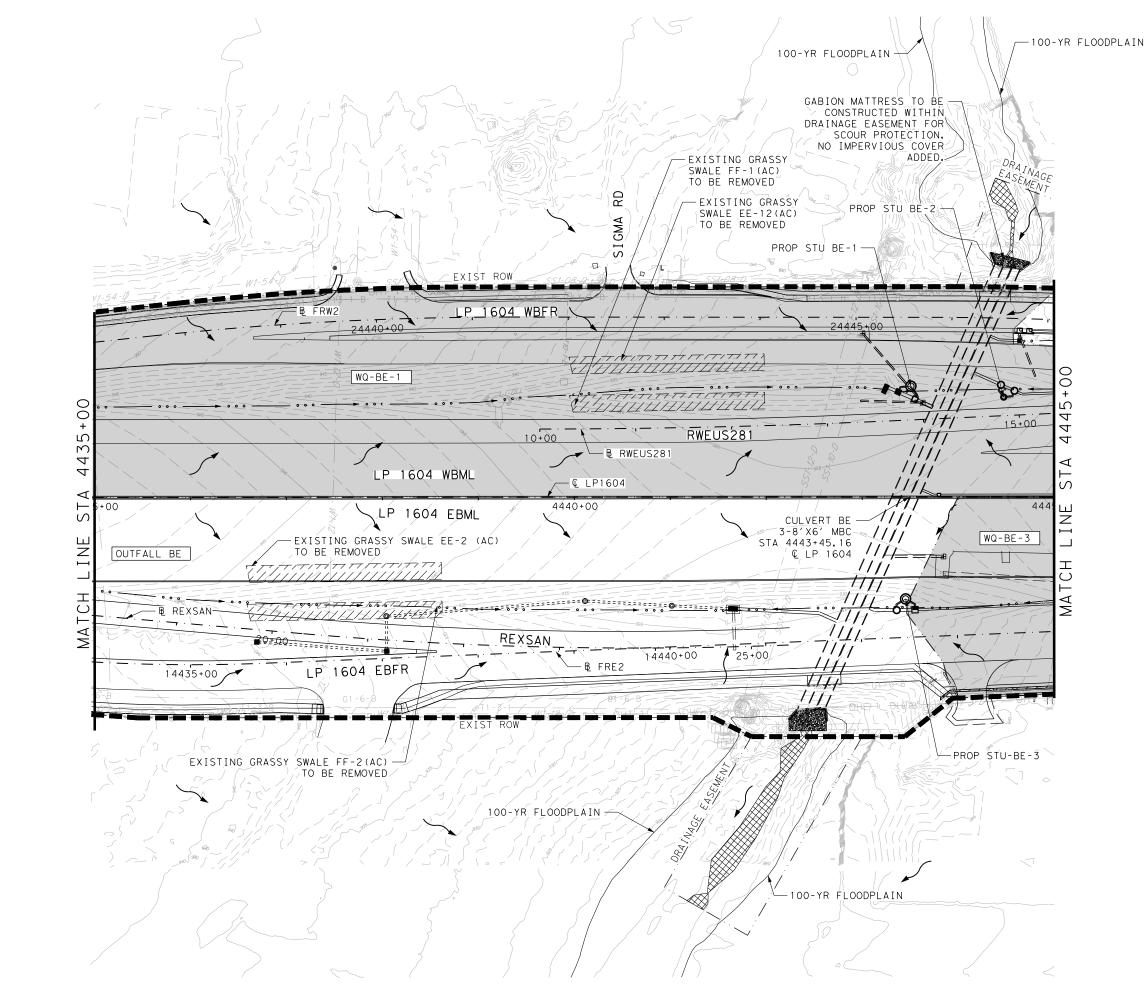
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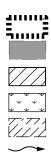
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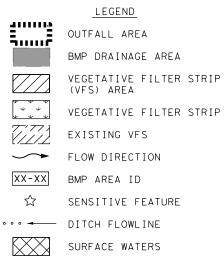
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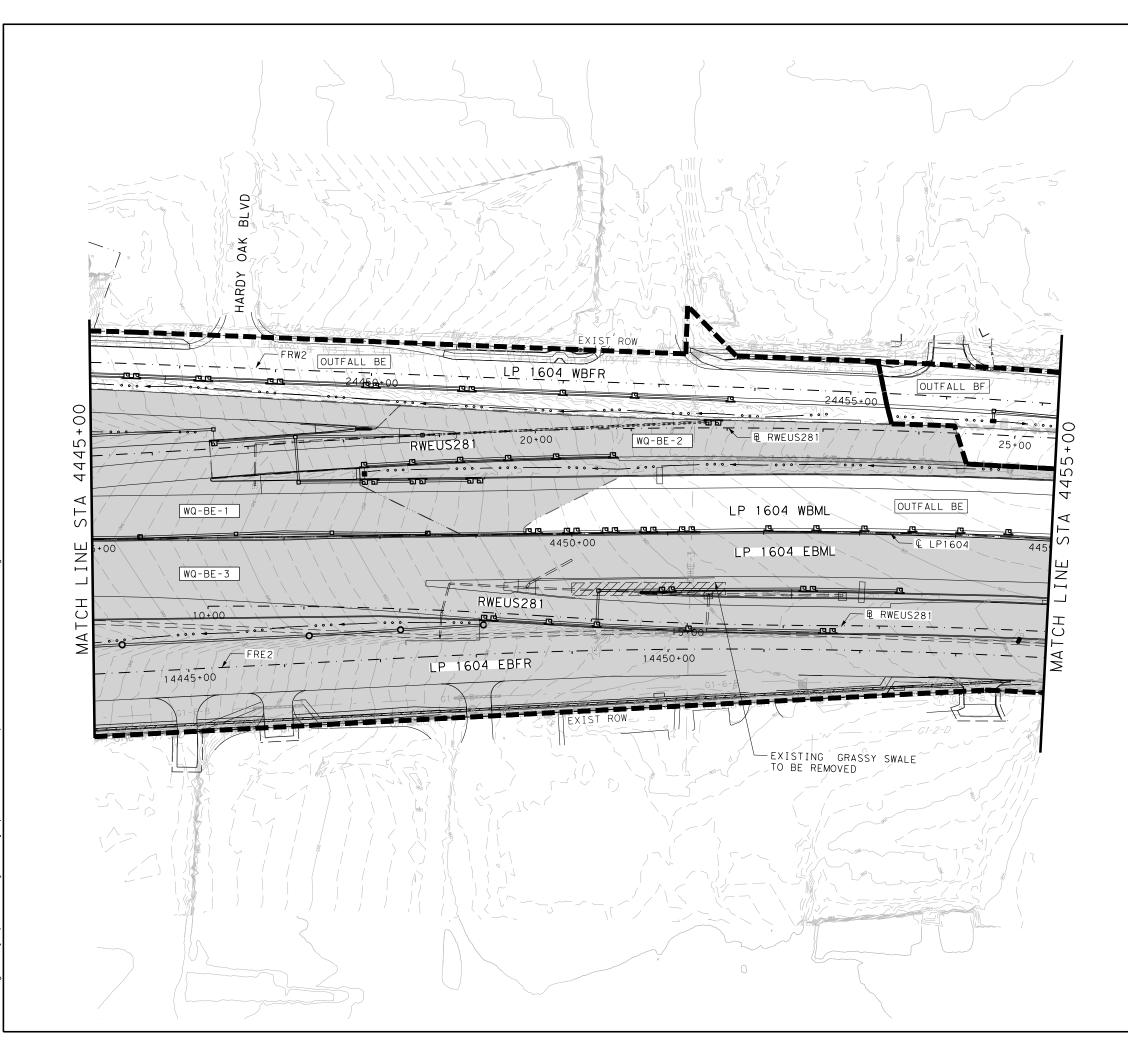






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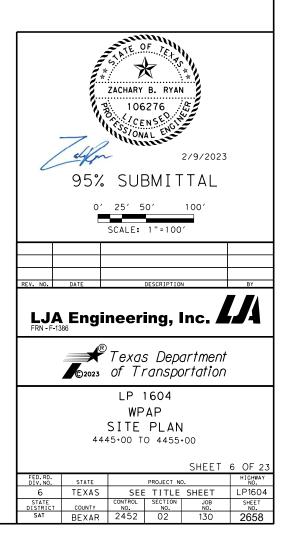


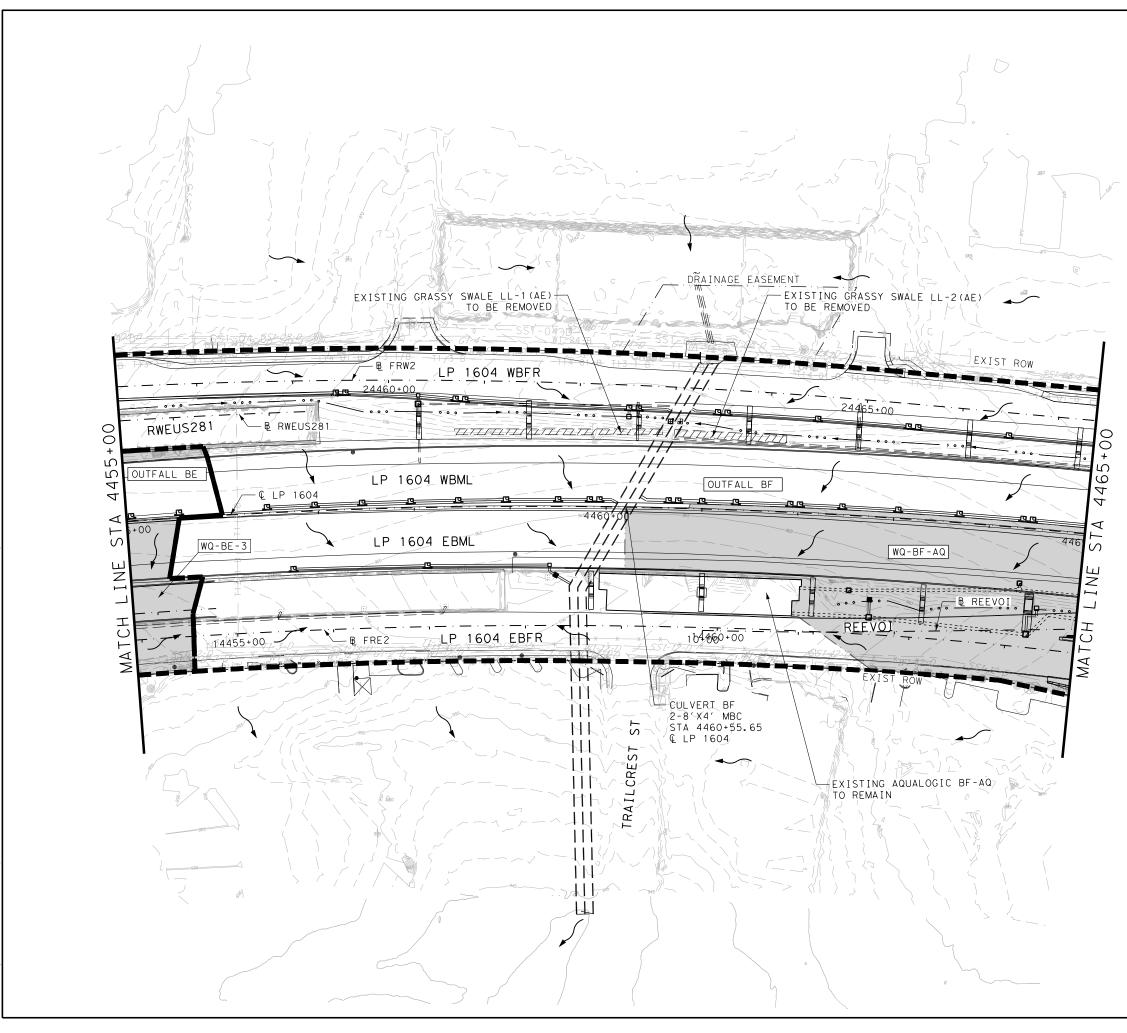
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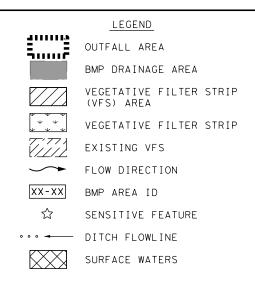
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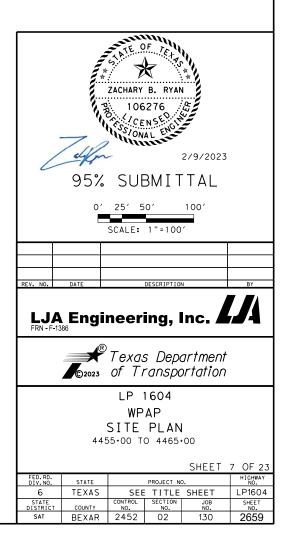


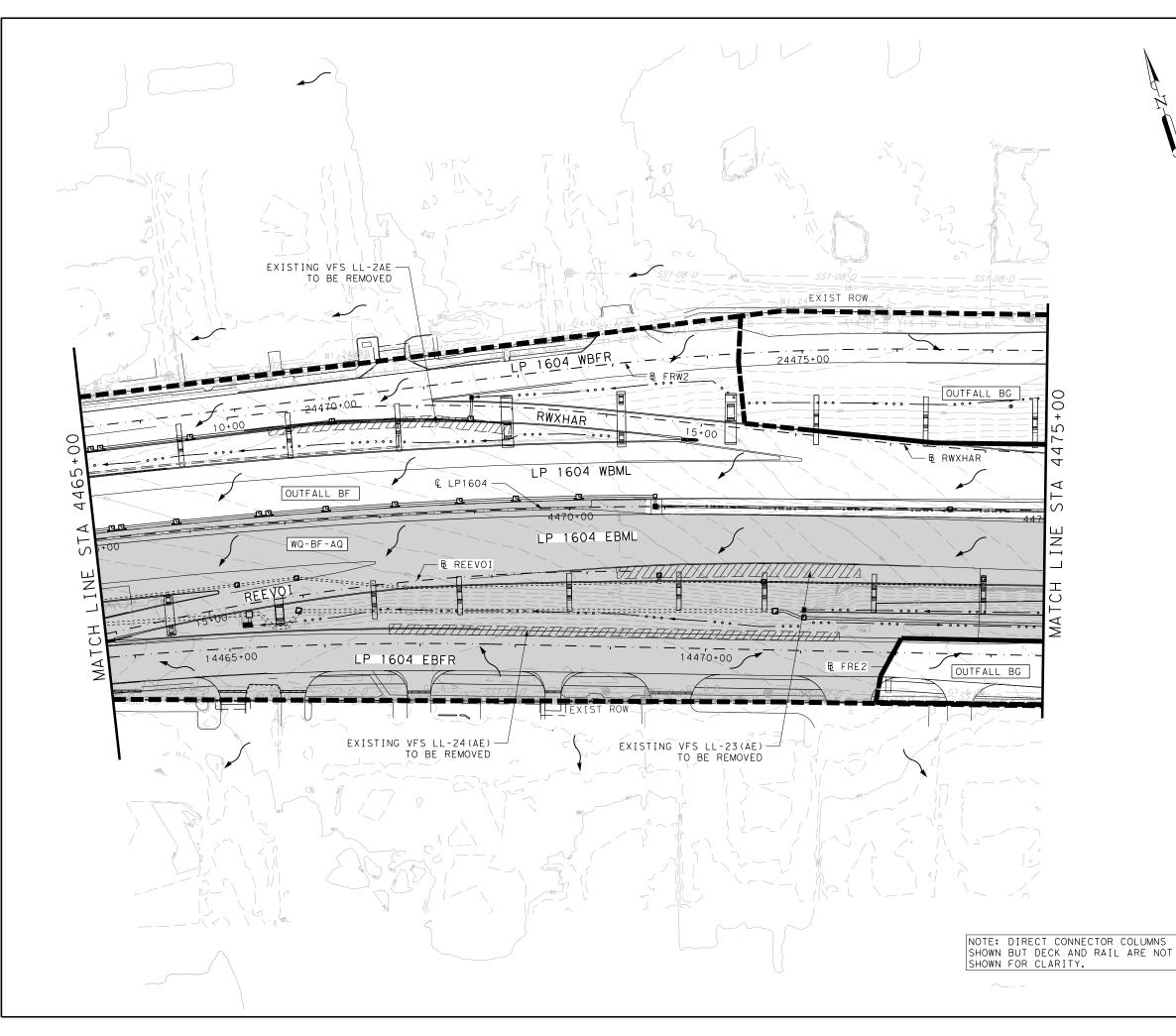


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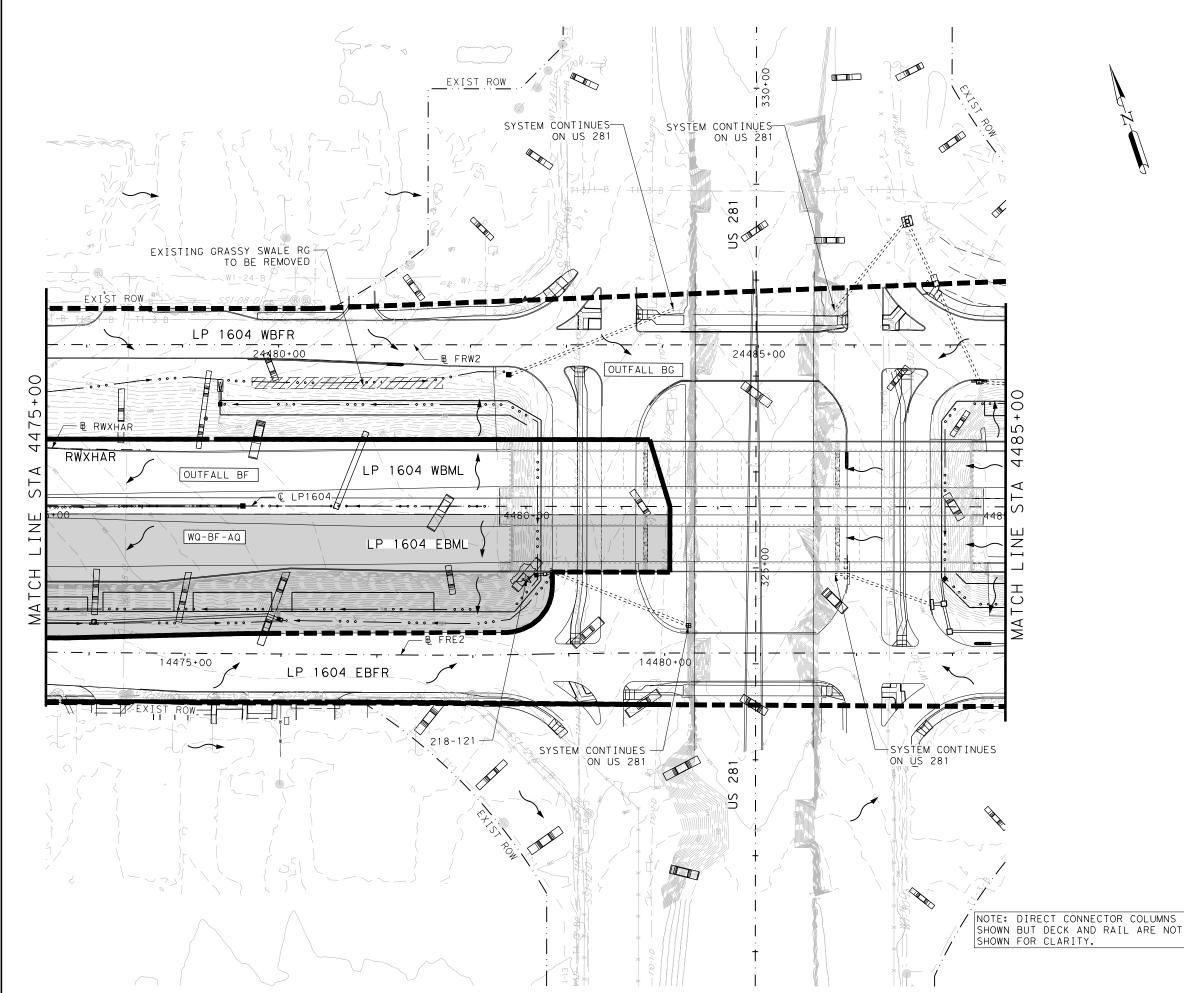
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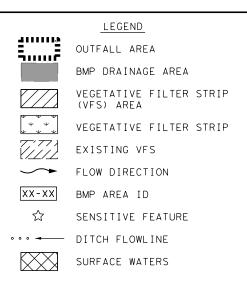
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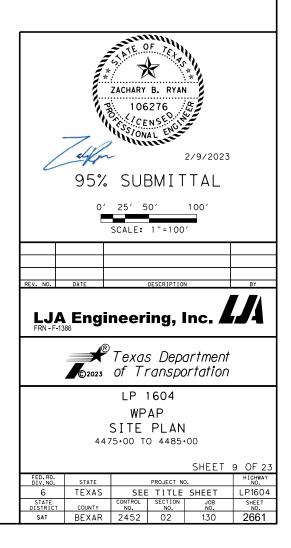


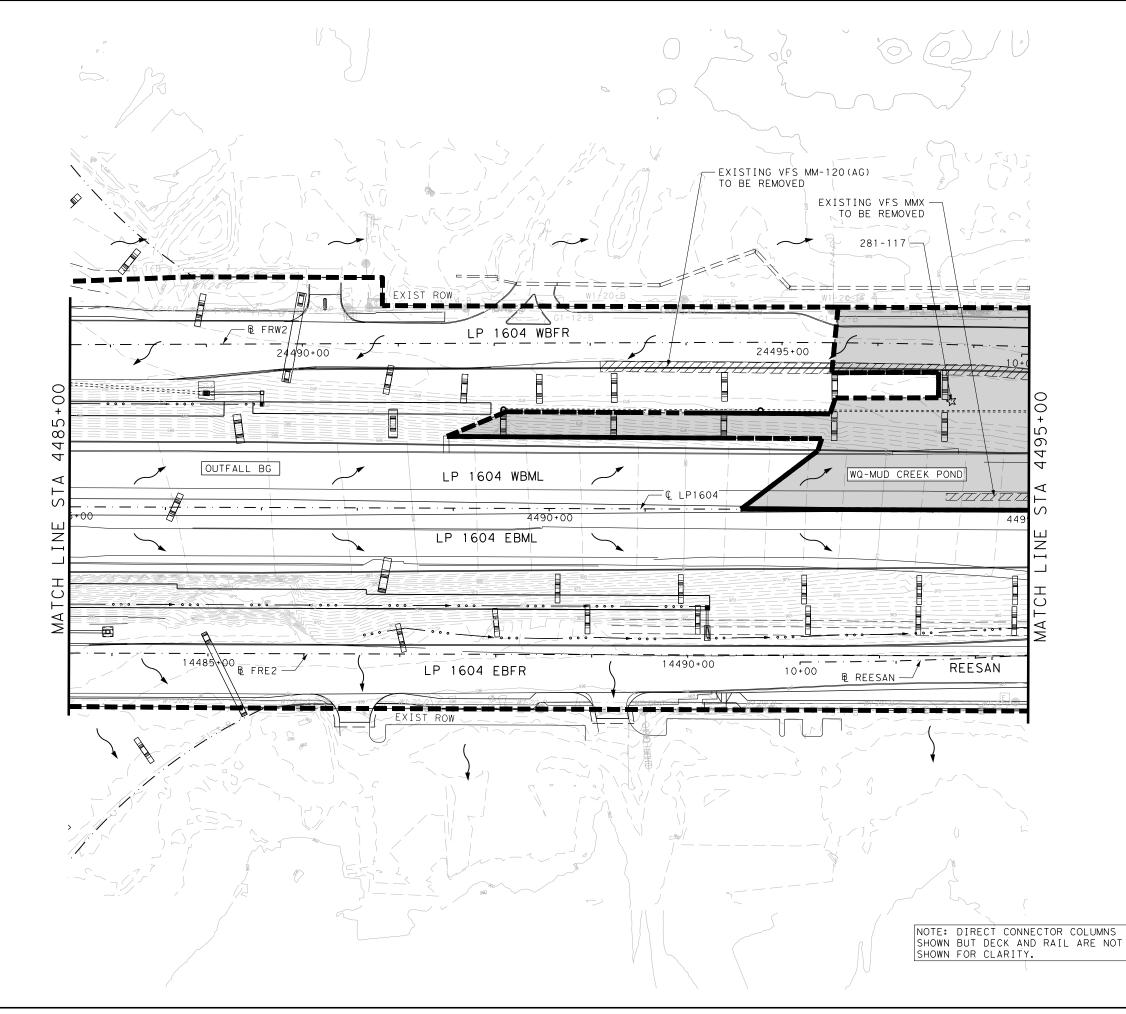
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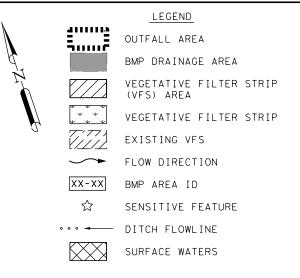


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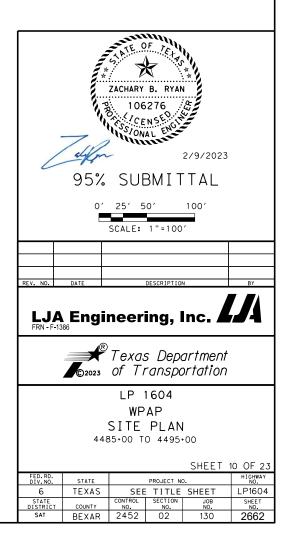




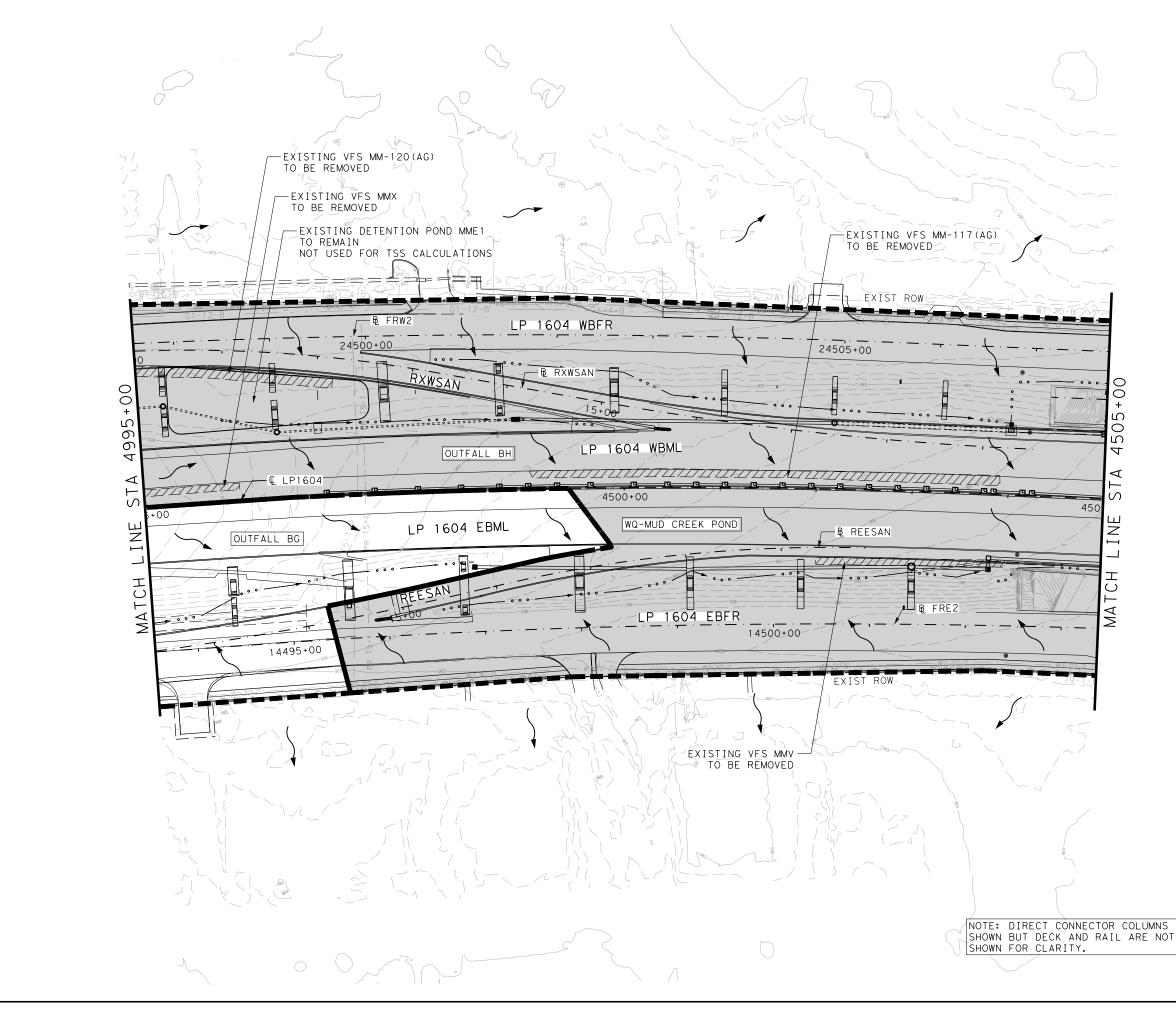
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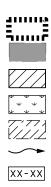






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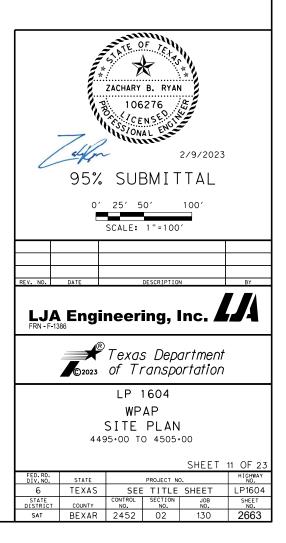
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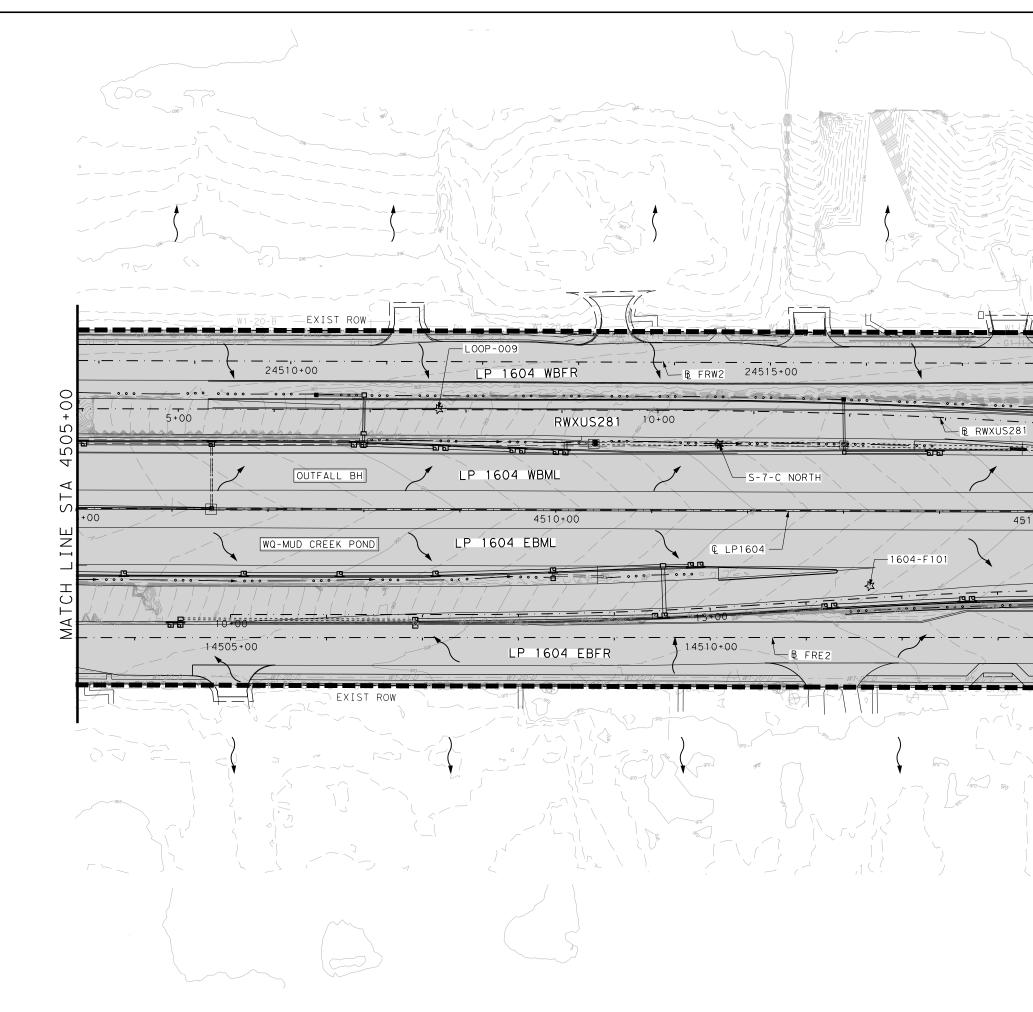
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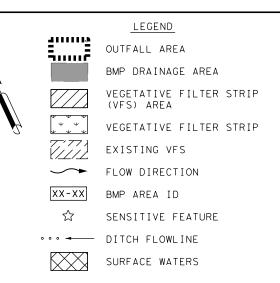
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- AREA MAPS. 2. FOR AREAS OF SOIL DISTURBANCE AND LOCATIONS OF STABILIZATION SEE SW3P LOCATED UNDER THE CONSTRUCTION PLANS (ATTACHMENT G)
- ANY INCIDENTAL WORK OUTSIDE OF WPAP PROJECT AREA IS LIMITED TO 3. MODIFICATIONS OF ROADWAY SIGNAGE.



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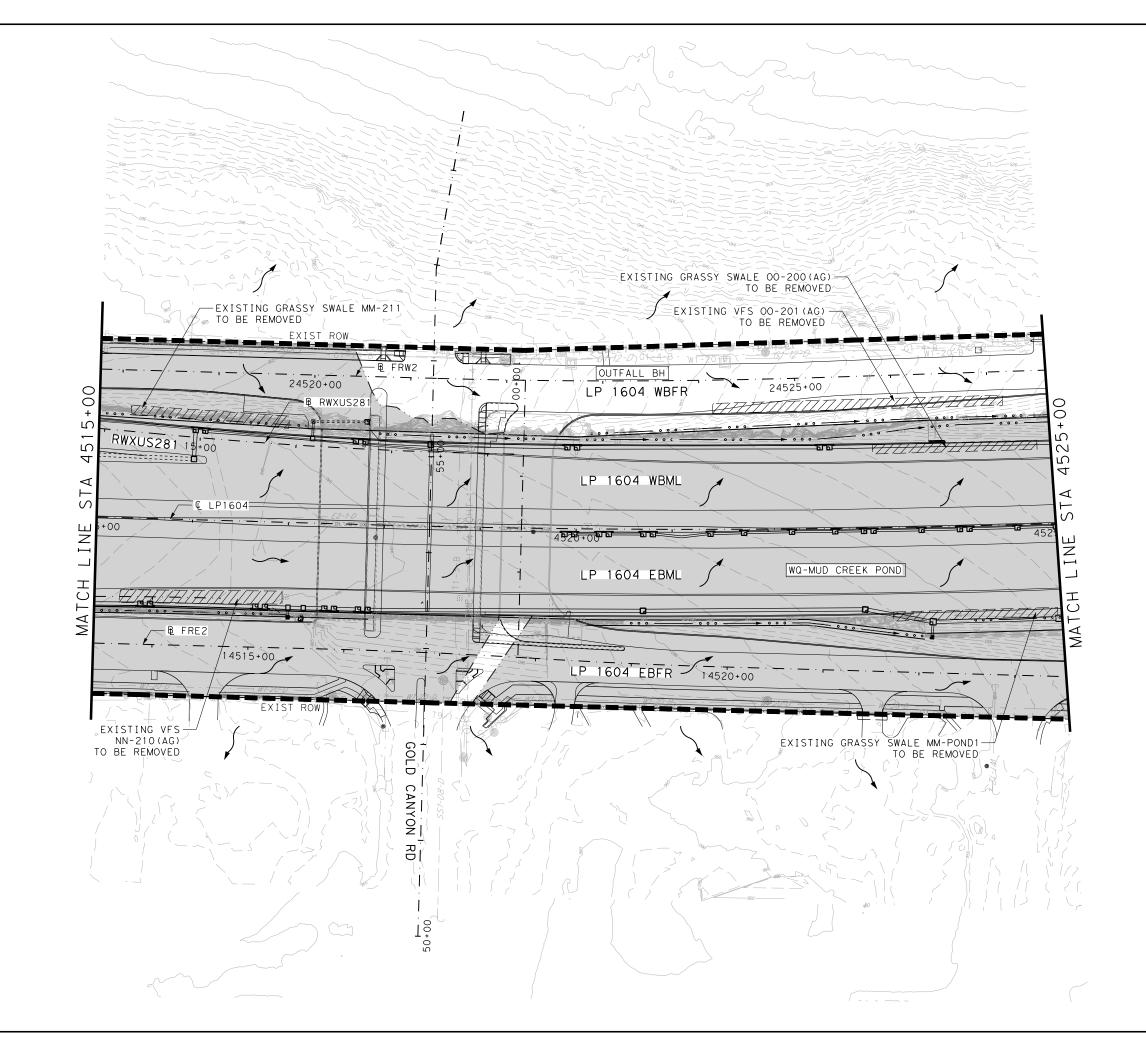


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- 1. FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES, SEE DRAINAGE
- APPROXIMATE SLOPES, SEE DRAINAG AREA MAPS. 2. FOR AREAS OF SOIL DISTURBANCE AND LOCATIONS OF STABILIZATION SEE SW3P LOCATED UNDER THE CONSTRUCTION PLANS (ATTACHMENT G)
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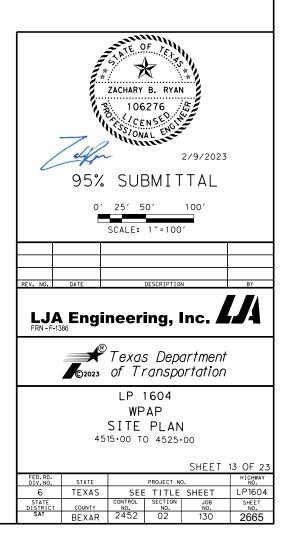
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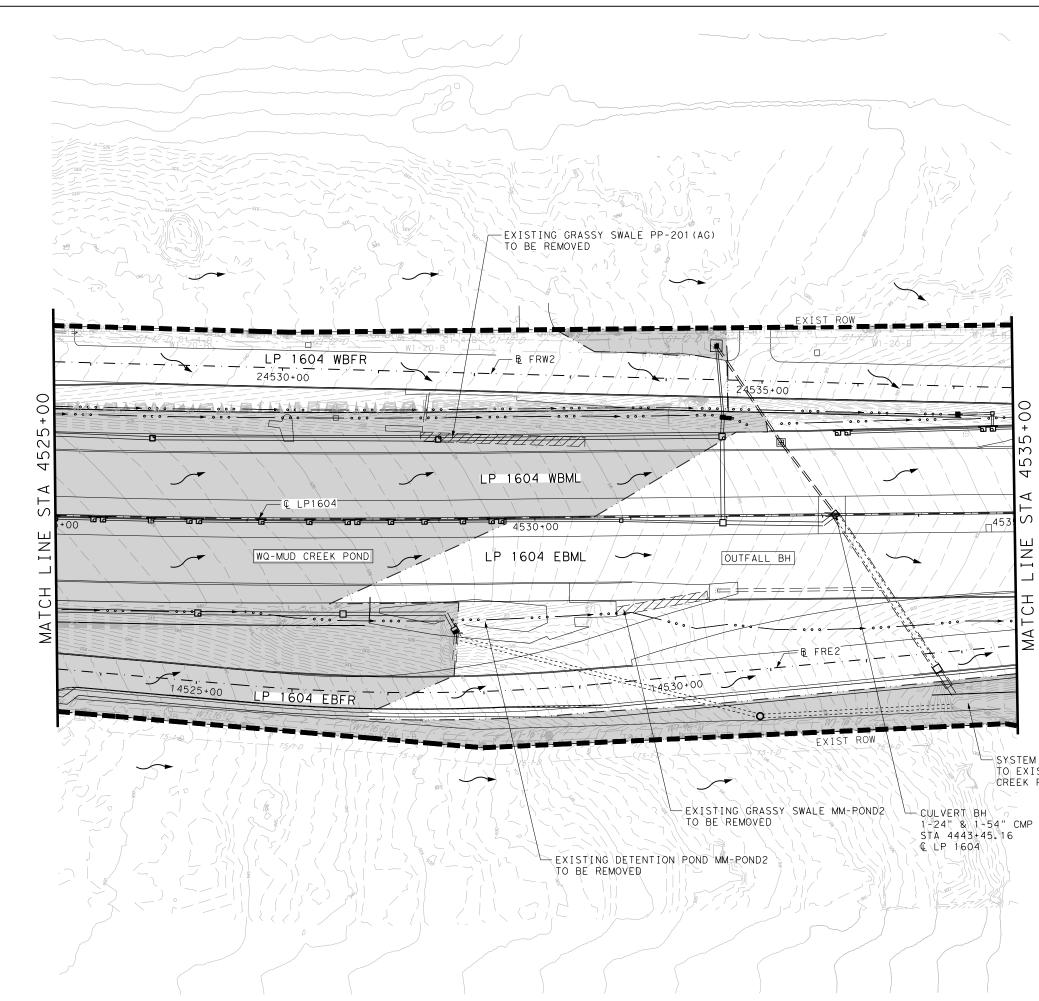




	LEGEND
<u></u>	OUTFALL AREA
	BMP DRAINAGE AREA
	VEGETATIVE FILTER STRIP (VFS) AREA
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	EXISTING VFS
\checkmark	FLOW DIRECTION
XX-XX	BMP AREA ID
	SENSITIVE FEATURE
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	SURFACE WATERS

- FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES, SEE DRAINAGE AREA MAPS.
 FOR AREAS OF SOIL DISTURBANCE AND LOCATIONS OF STABILIZATION SEE SW3P LOCATED UNDER THE DEPUTY OF DEPUTY OF THE STATE - CONSTRUCTION PLANS (ATTACHMENT G).
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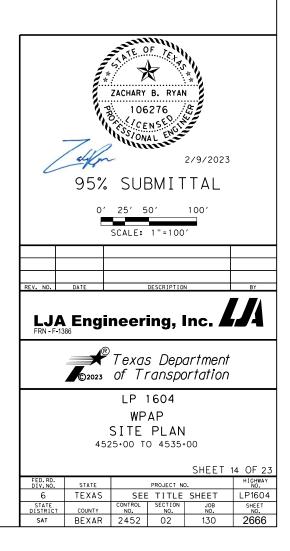
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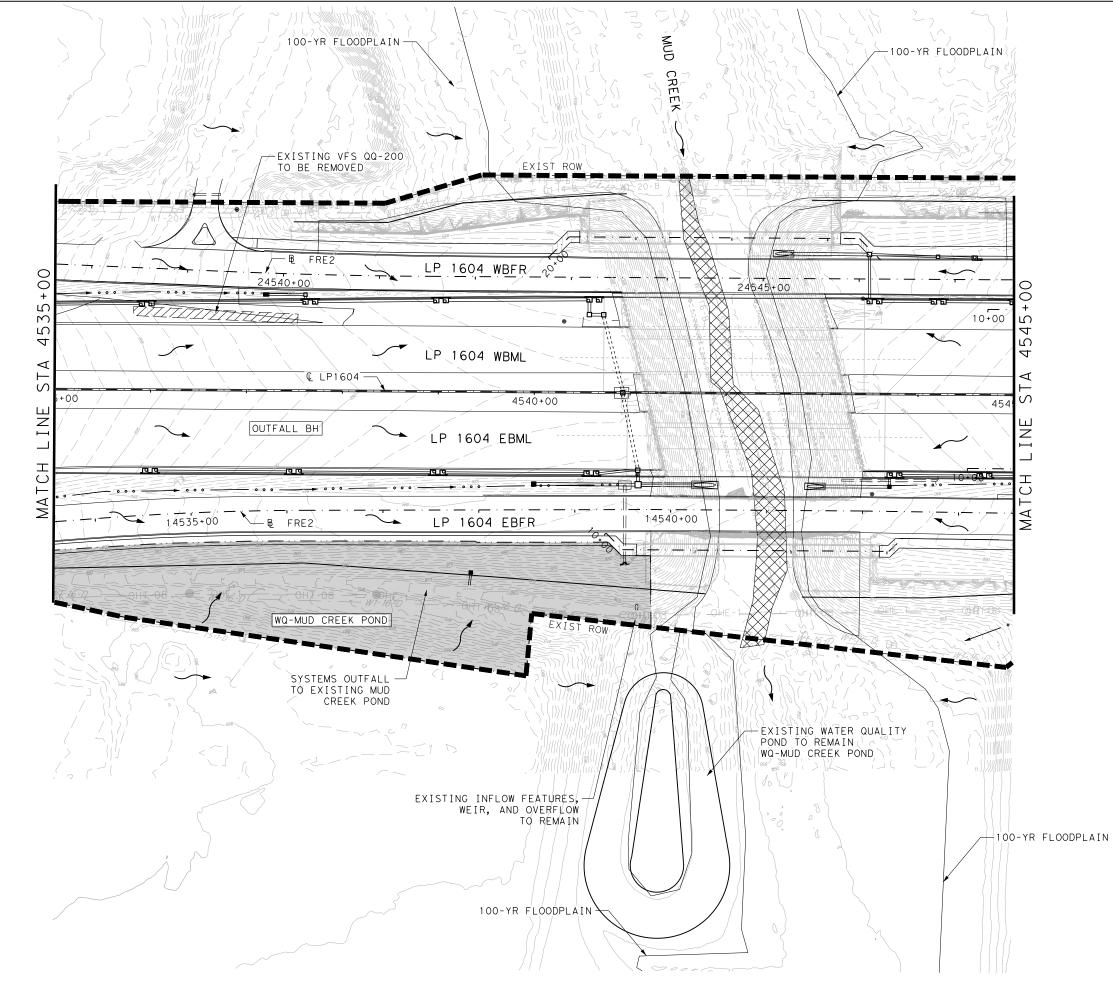
	LEGEND
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	VEGETATIVE FILTER STRIP (VFS) AREA
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NOTES:

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- CONSTRUCTION PLANS (ATTACHMENT G).
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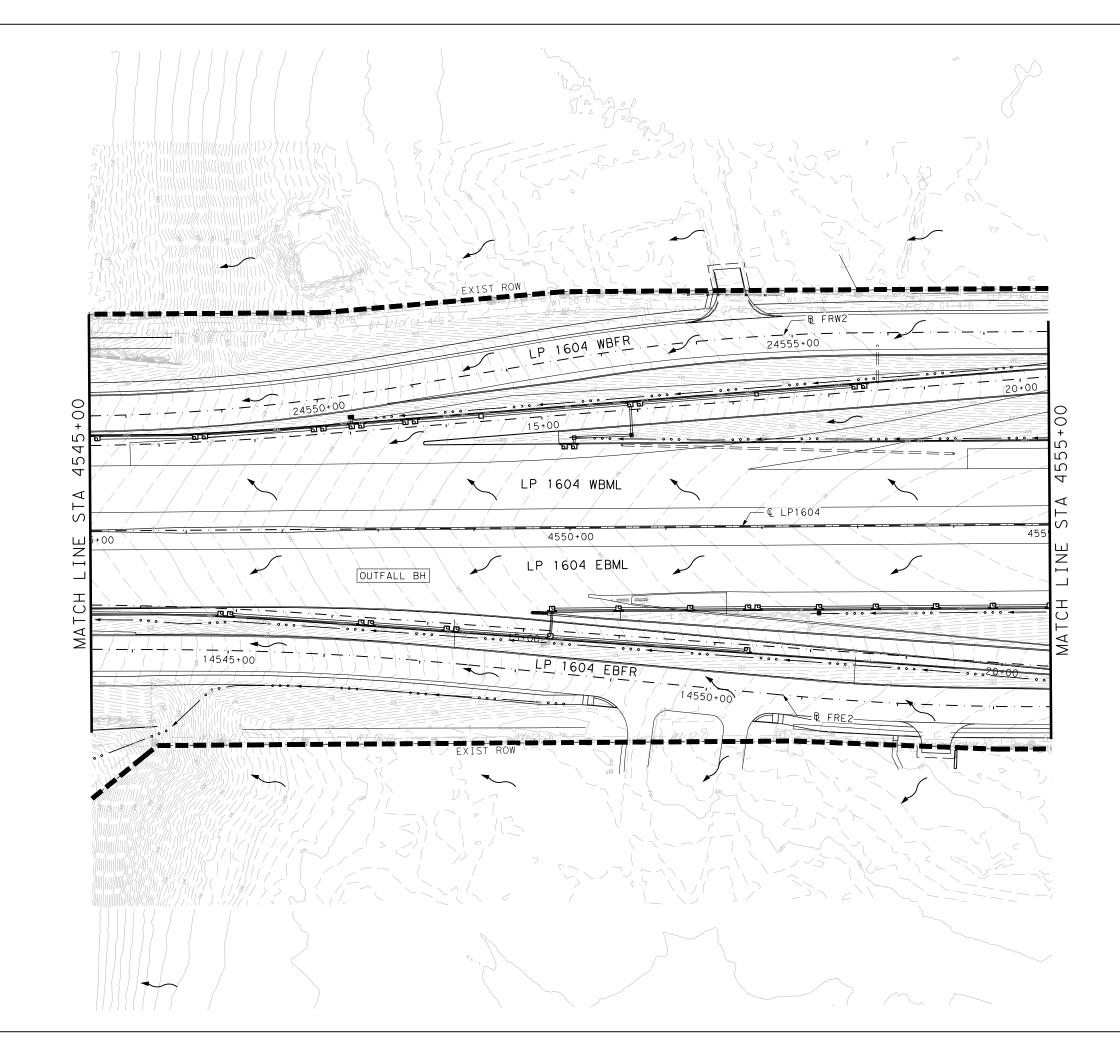
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	LEGEND
	OUTFALL AREA
	BMP DRAINAGE AREA
	VEGETATIVE FILTER STRIP (VFS) AREA
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	SURFACE WATERS

- 1. FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES, SEE DRAINAGE
- APPROXIMATE SLOPES, SEE DRAINAG AREA MAPS. 2. FOR AREAS OF SOIL DISTURBANCE AND LOCATIONS OF STABILIZATION SEE SW3P LOCATED UNDER THE CONSTRUCTION PLANS (ATTACHMENT G)
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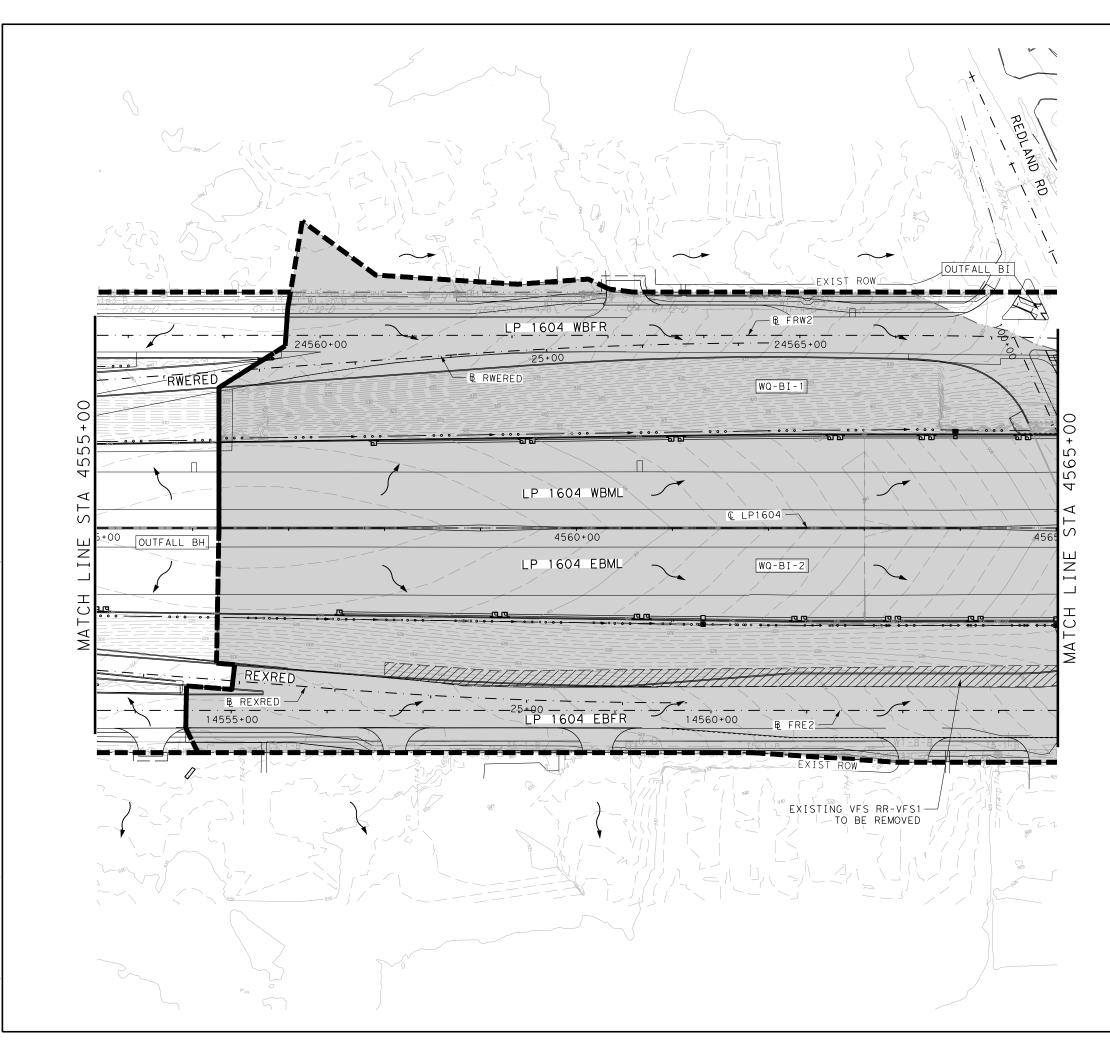
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	LEGEND
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	BMP DRAINAGE AREA
	VEGETATIVE FILTER STRIP (VFS) AREA
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	EXISTING VFS
\checkmark	FLOW DIRECTION
XX-XX	BMP AREA ID
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	SURFACE WATERS

- FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES, SEE DRAINAGE AREA MAPS.
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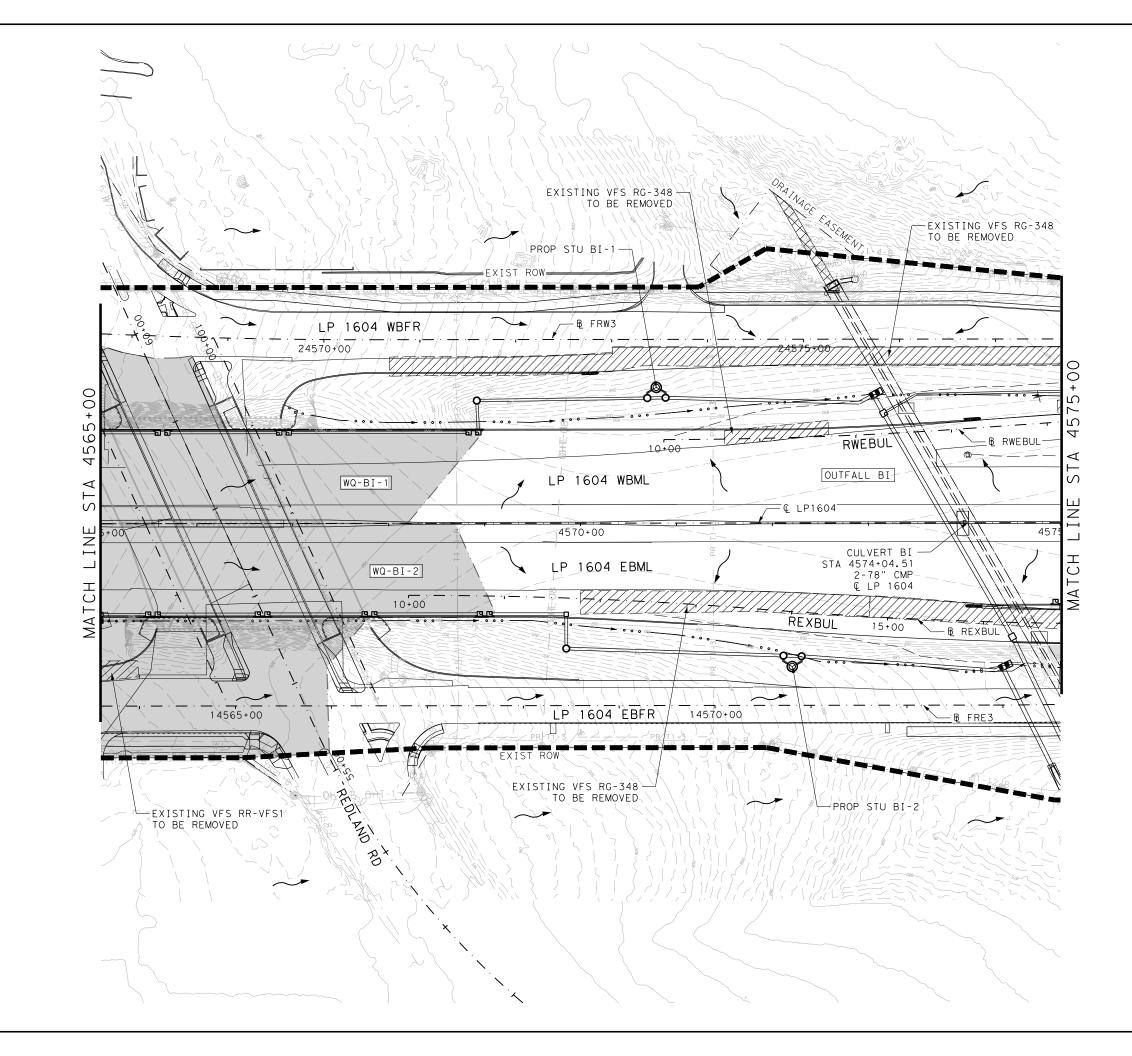


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	BMP DRAINAGE AREA
	VEGETATIVE FILTER STRIP (VFS) AREA
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	EXISTING VFS
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\boxtimes	SURFACE WATERS

- FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES, SEE DRAINAGE AREA MAPS.
 FOR AREAS OF SOIL DISTURBANCE AND LOCATIONS OF STABILIZATION SEE SW3P LOCATED UNDER THE CONSTRUCTION DRANG (ATTACHMENT C)
- CONSTRUCTION PLANS (ATTACHMENT G).
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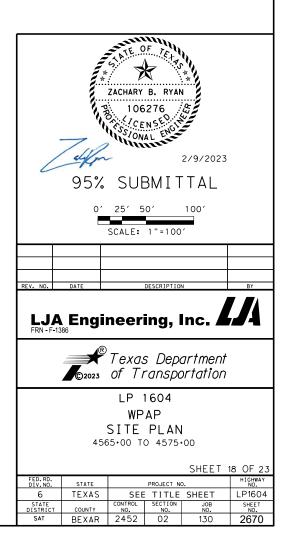


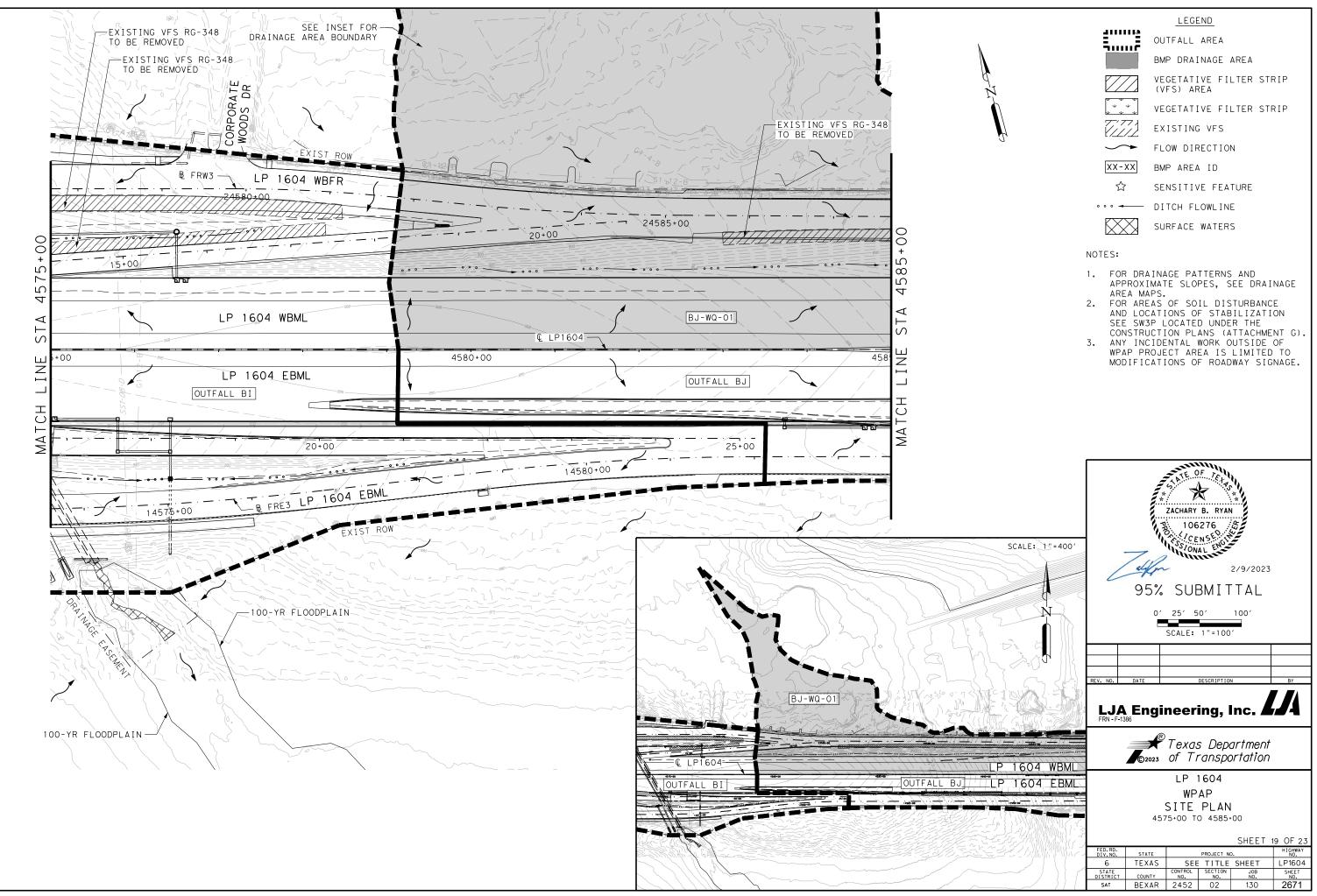
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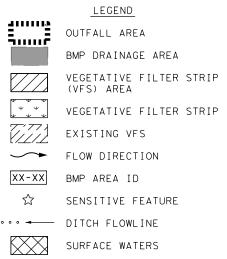
	LEGEND
	OUTFALL AREA
	BMP DRAINAGE AREA
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	SURFACE WATERS

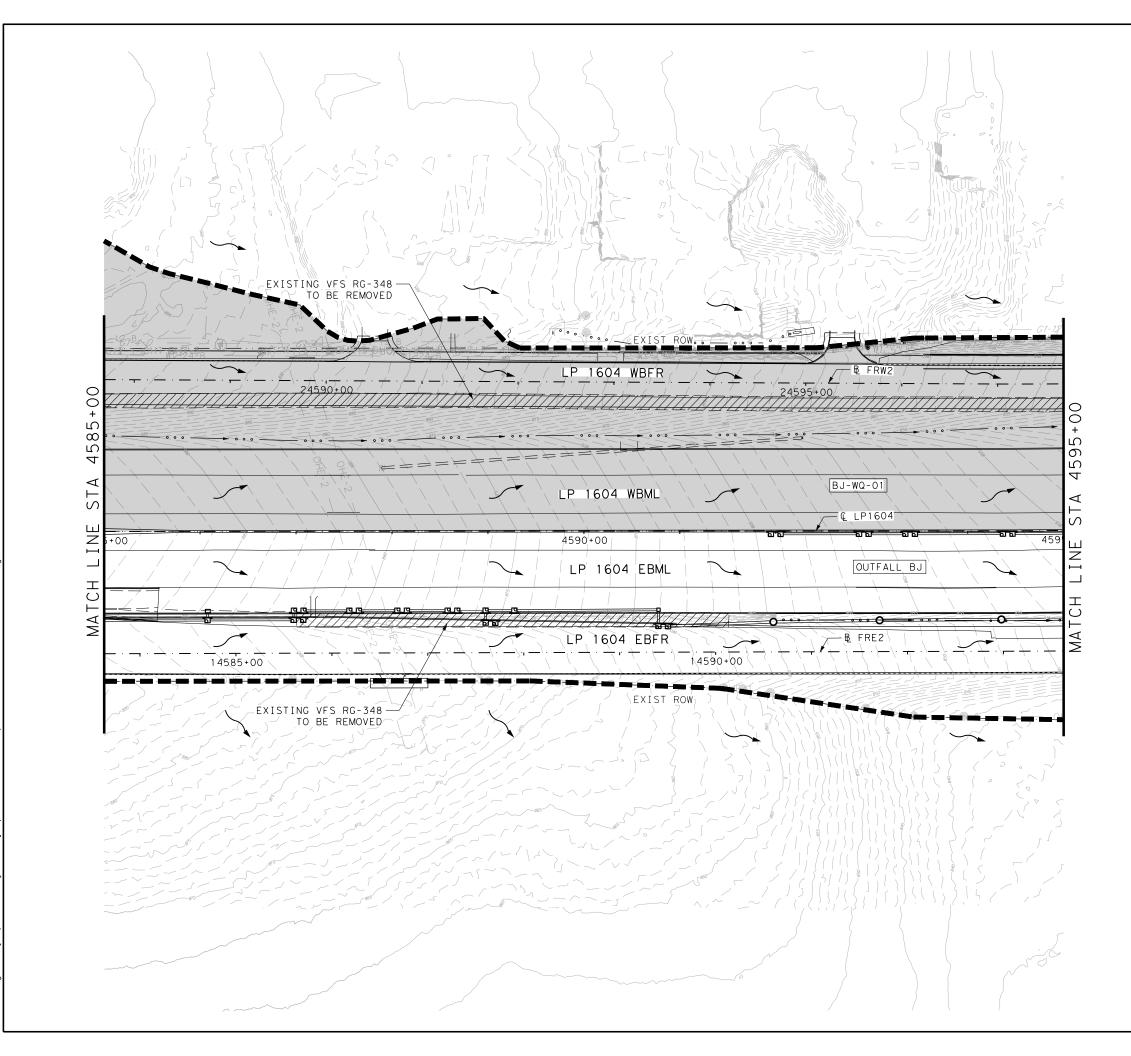
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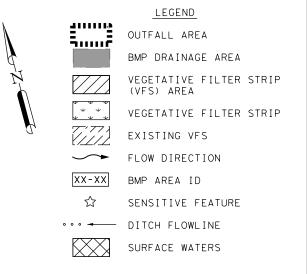






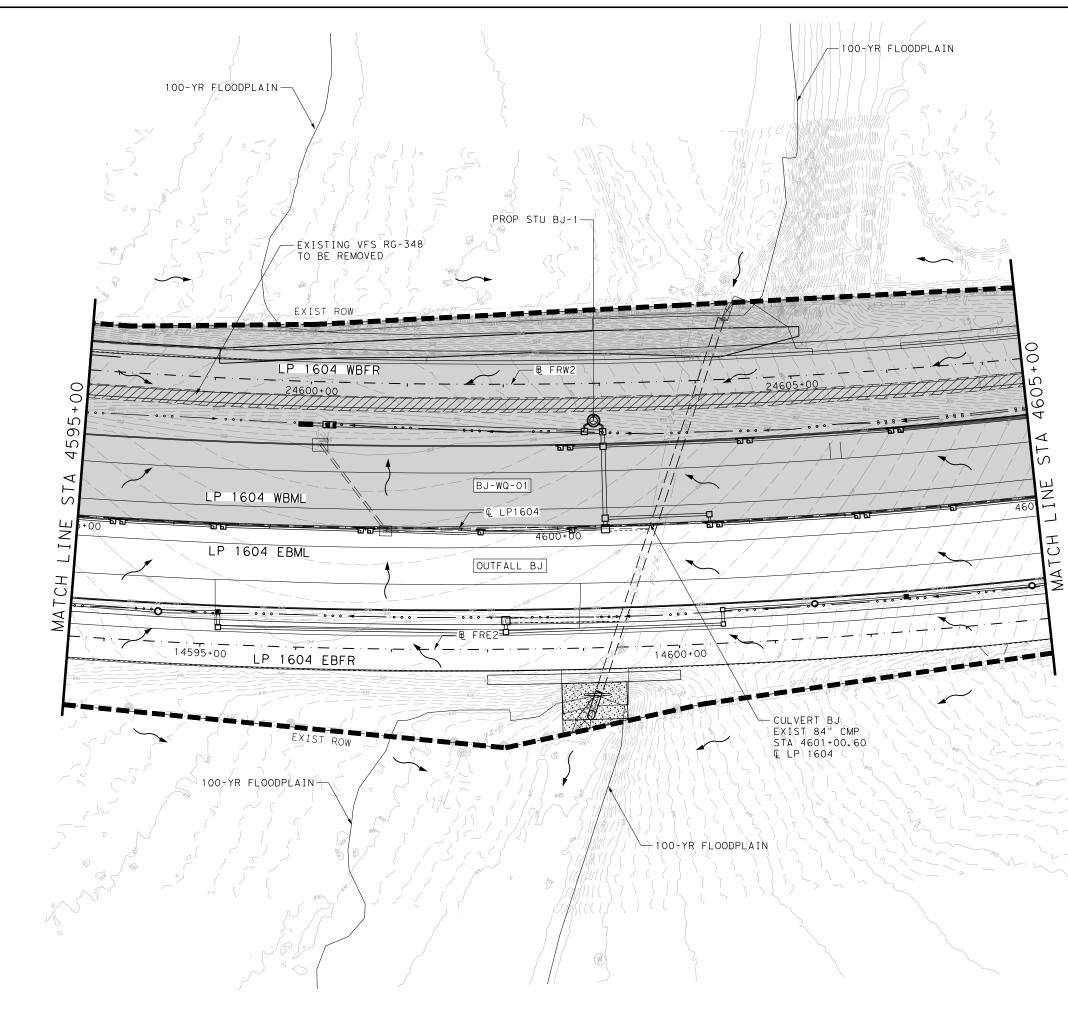






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- CONSTRUCTION PLANS (ATTACHMENT G). ANY INCIDENTAL WORK OUTSIDE OF WPAP PROJECT AREA IS LIMITED TO MODIFICATIONS OF ROADWAY SIGNAGE. 3.





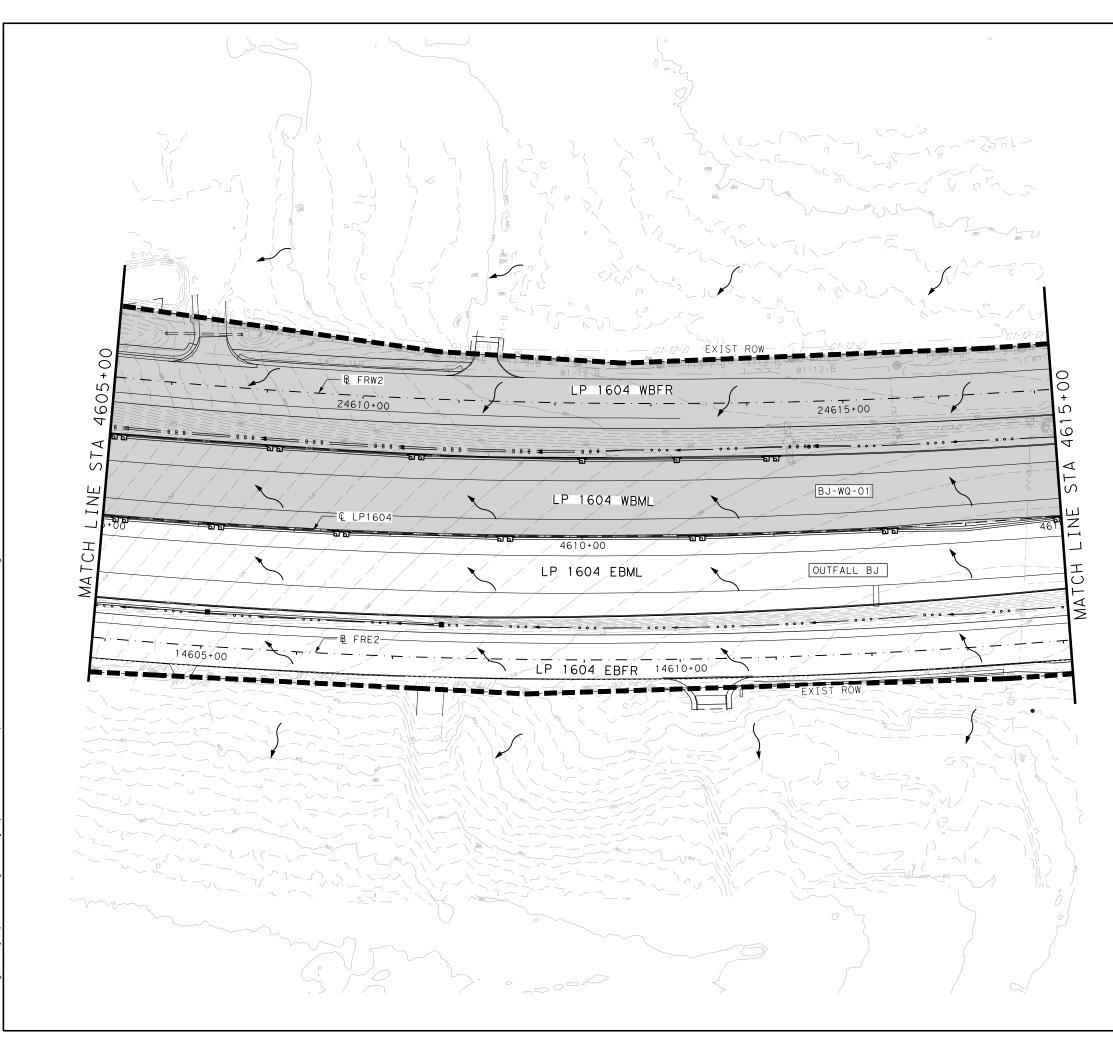
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	LEGEND
	OUTFALL AREA
	BMP DRAINAGE AREA
	VEGETATIVE FILTER STRIP (VFS) AREA
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	EXISTING VFS
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	SENSITIVE FEATURE
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\bigotimes	SURFACE WATERS

- FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES, SEE DRAINAGE AREA MAPS.
 FOR AREAS OF SOIL DISTURBANCE AND LOCATIONS OF STABILIZATION SEE SW3P LOCATED UNDER THE CONSTRUCTION PLANE (ATTACHMENT C)
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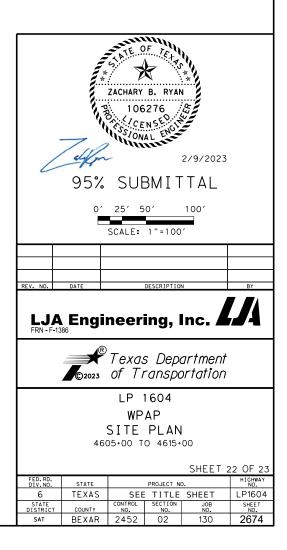


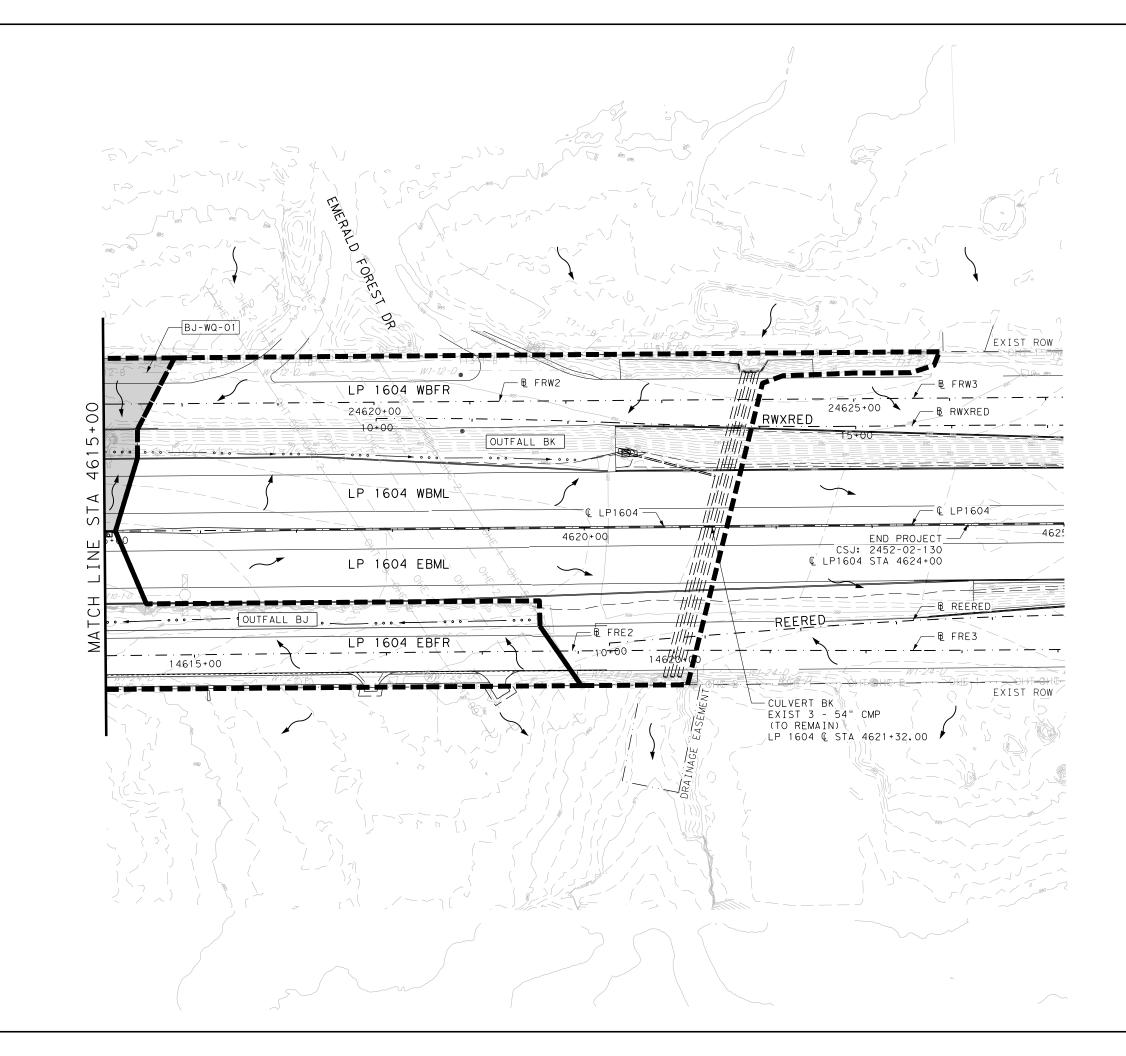
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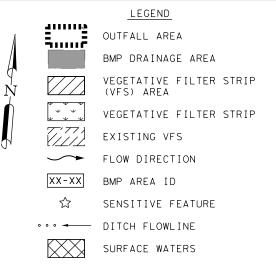
	LEGEND
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	BMP DRAINAGE AREA
	VEGETATIVE FILTER STRIP (VFS) AREA
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	EXISTING VFS
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	SENSITIVE FEATURE
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	SURFACE WATERS

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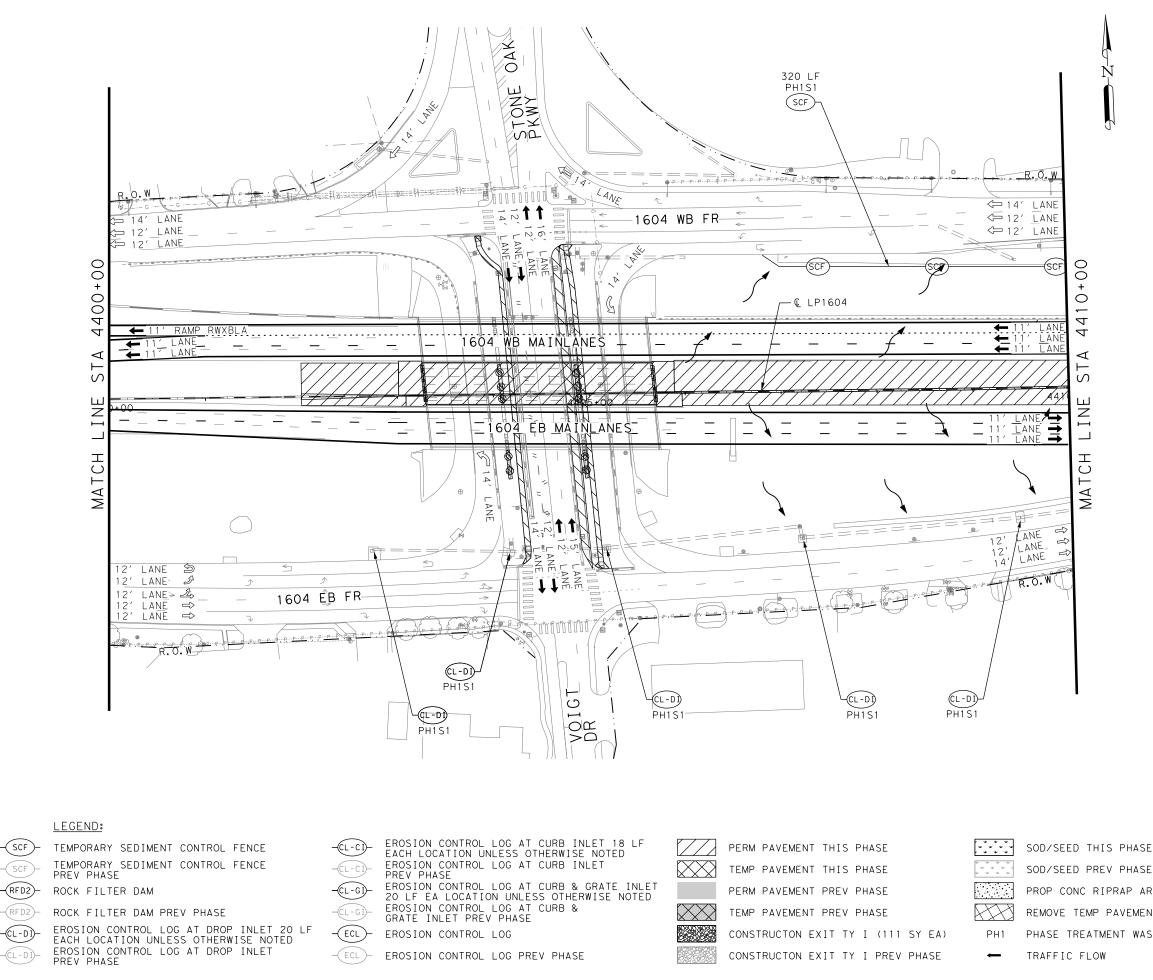


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- FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES, SEE DRAINAGE AREA MAPS.
 FOR AREAS OF SOIL DISTURBANCE AND LOCATIONS OF STABILIZATION SEE SW3P LOCATED UNDER THE DEPUTY OF DEPUTY OF THE STATE - CONSTRUCTION PLANS (ATTACHMENT G). ANY INCIDENTAL WORK OUTSIDE OF WPAP PROJECT AREA IS LIMITED TO MODIFICATIONS OF ROADWAY SIGNAGE. 3.





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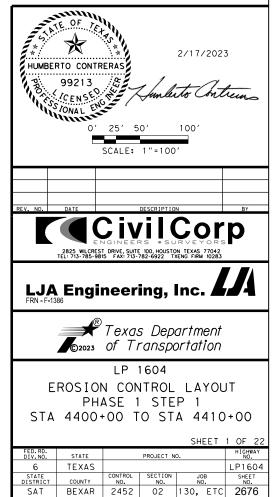


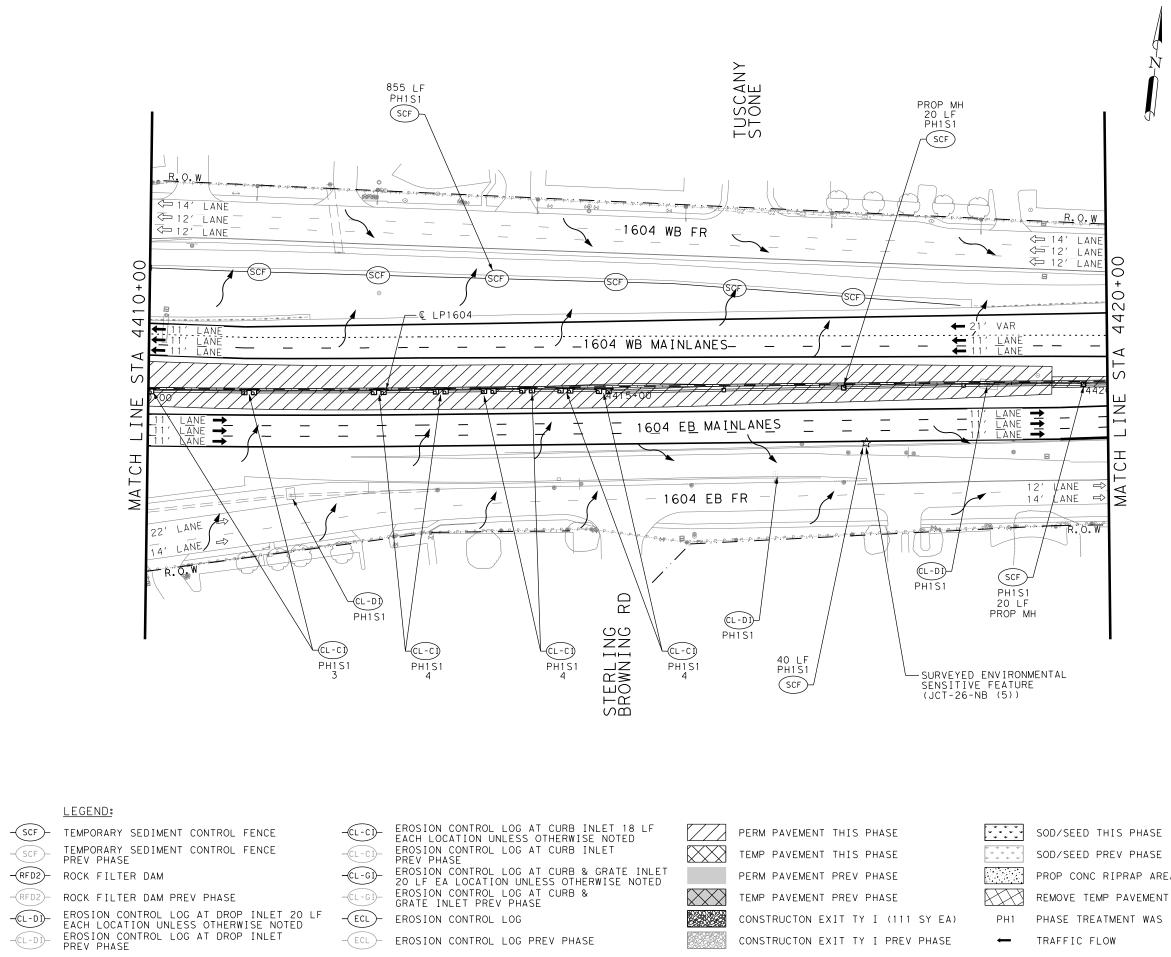
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	320
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	320
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	100
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	100

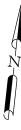
* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON 2. STANDARDS EC(1)-EC(3).
- REFER TO SW3P STANDARD SHEETS FOR 3. DETATI S.
- 4.
- EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
- PER SEDIMENT CONTROL FENCE AND
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- CONSTRUCTION EXITS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. ALL CONSTRUCTION EXITS WILL BE MOVED AND RESET DURING EACH CONTRUCTION 8. PHASE.



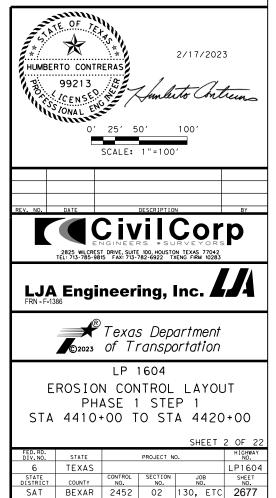




ITEM	QUANTITY SUMMARY CSJ 0072-08-130, E DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	935
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	935
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	330
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	330

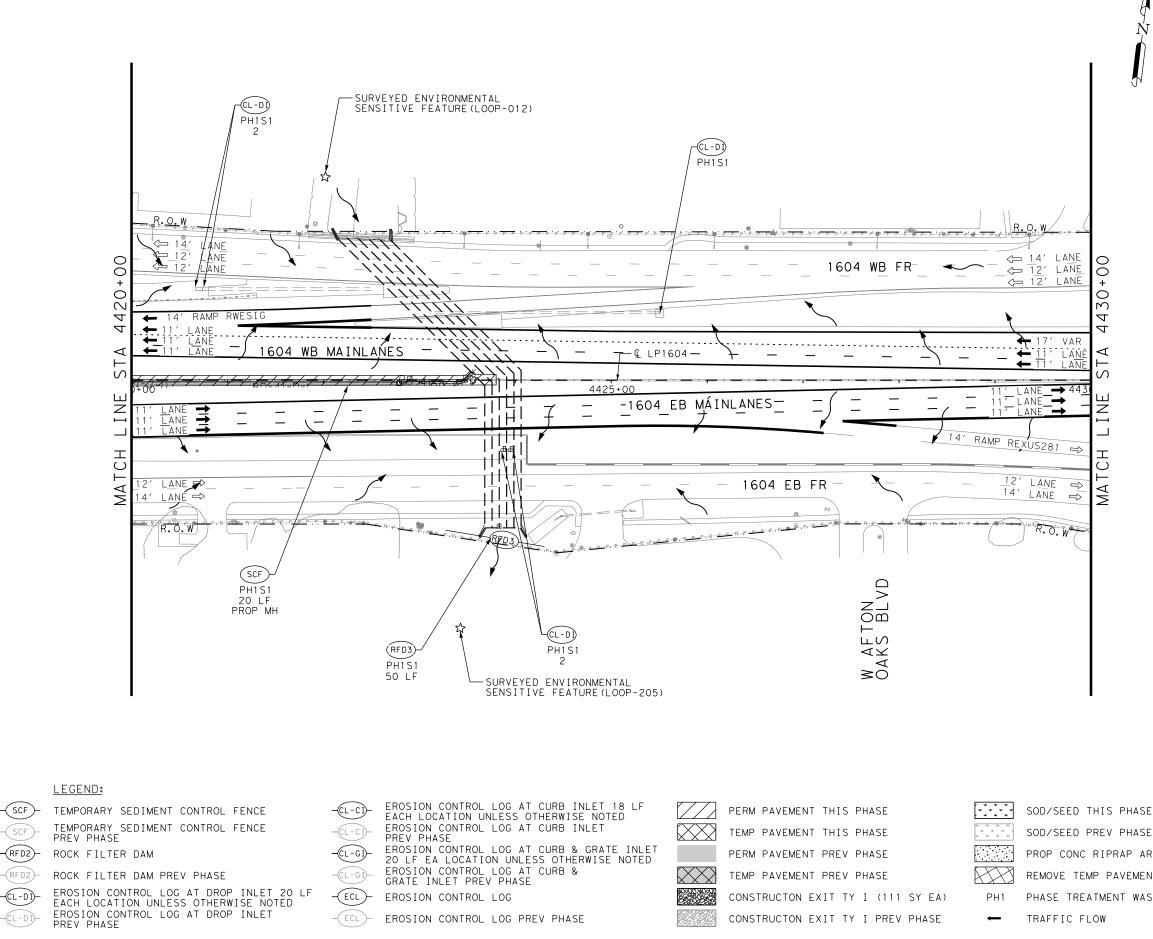
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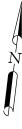
- REFER TO SW3P NARRATIVE SHEET FOR 1.
- OTHER NOTES. ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
- REFER TO SW3P STANDARD SHEETS FOR 3. DETAILS.
- 4.
- DETAILS. EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
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- CONSTRUCTION EXITS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. ALL CONSTRUCTION EXITS WILL BE MOVED AND RESET DURING EACH CONTRUCTION 8. PHASE.



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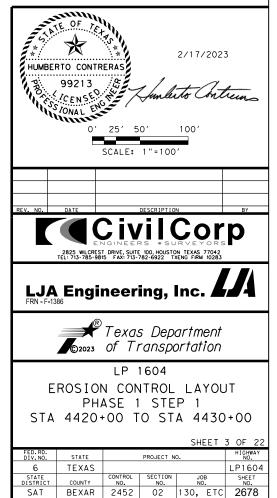




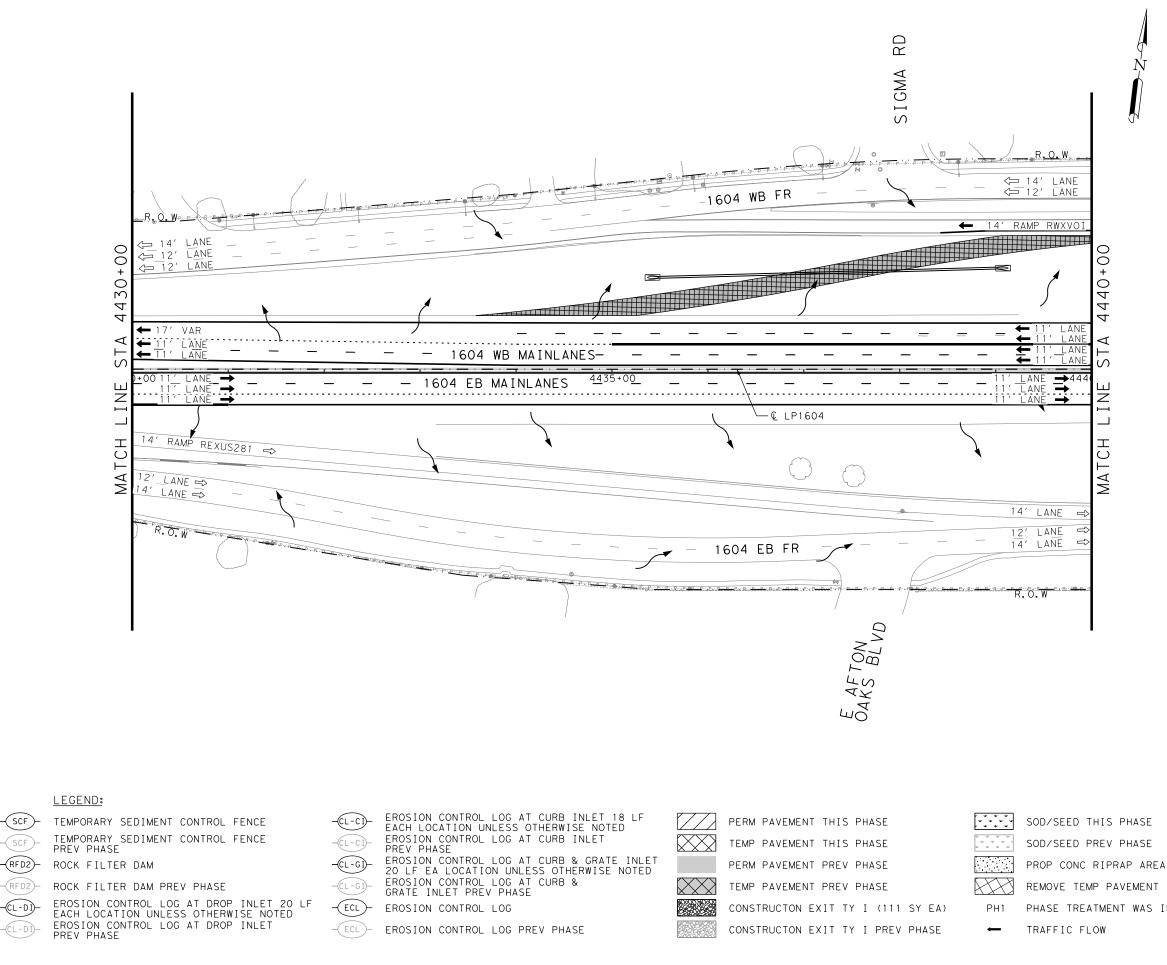
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	50
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	50
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	100
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	100

NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
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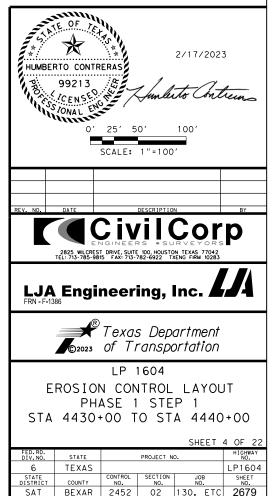
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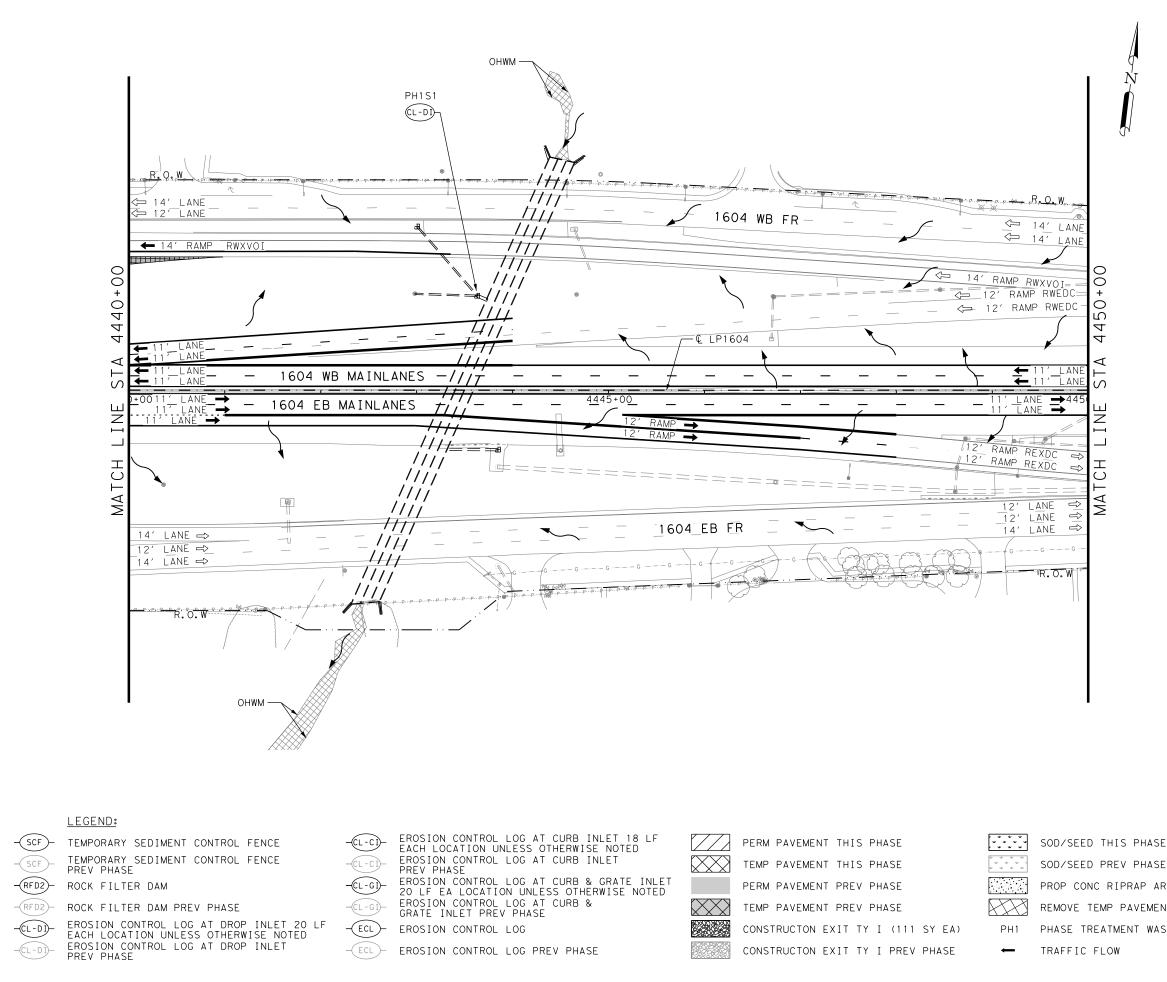
URNISHING AND PLACING TOPSOIL (4") LOCK SODDING RILL SEEDING (PERM) (URBAN) (CLAY) RILL SEEDING (PERM) (WARM OR COOL) EGETATIVE WATERING OLL RETENTION BLANKETS (CL1) (TY A) OL RETENTION BLANKETS (CL1) (TY A)	SY SY SY SY MG SY	0 0 0 0,0
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RILL SEED (TEMP)(WARM OR COOL) EGETATIVE WATERING OIL RETENTION BLANKETS (CL1)(TY A)	SY MG	Ő
EGETATIVE WATERING OIL RETENTION BLANKETS (CL1) (TY A)	MG	
OIL RETENTION BLANKETS (CL1) (TY A)		0 0
	SY	0.0
ACK FILTER DANG (INCTALL) (TV O)	31	0
OCK FILTER DAMS (INSTALL) (TY 2)	LF	0
OCK FILTER DAMS (INSTALL) (TY 3)	LF	0
OCK FILTER DAMS (INSTALL) (TY 4)	LF	0
OCK FILTER DAMS (REMOVE)	LF	0
ONSTRUCTION EXITS (INSTALL) (TY 1)		0
ONSTRUCTION EXITS (REMOVE)	SY	0
	HR	0
		0
EMP SEDMT CONT FENCE (INSTALL)	LF	0
EMP SEDMT CONT FENCE (REMOVE)	LF	0
IODEG EROSN CONT LOGS (INSTL) (12")		0
IODEG EROSN CONT LOGS (REMOVE)	LF	0
	OCK FILTER DAMS (REMOVE) ONSTRUCTION EXITS (INSTALL) (TY 1) ONSTRUCTION EXITS (REMOVE) ACKHOE WORK (EROSION & SEDMT CONT) ANDBAGS FOR EROSION CONTROL (G°) EMP SEDMT CONT FENCE (INSTALL) EMP SEDMT CONT FENCE (REMOVE) DDEG EROSN CONT LOCS (INSTL) (12")	OCK FILTER DAMS (REMOVE) LF ONSTRUCTION EXITS (INSTALL) (TY 1) SY ONSTRUCTION EXITS (REMOVE) SY ACKHOE WORK (EROSION & SEDMT CONT) HR ANDBAGS FOR EROSION CONTROL (6") LF EMP SEDMT CONT FENCE (INSTALL) LF EMP SEDMT CONT FENCE (REMOVE) LF IDDEG EROSN CONT LOGS (INSTL) (12") LF IODEG EROSN CONT LOGS (REMOVE) LF

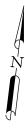
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- CONSTRUCTION EXITS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. ALL CONSTRUCTION EXITS WILL BE MOVED AND RESET DURING EACH CONTRUCTION 8. PHASE.



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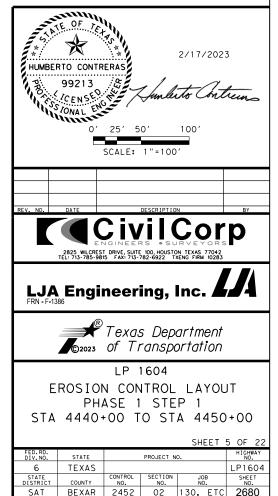
PHASE TREATMENT WAS INSTALLED

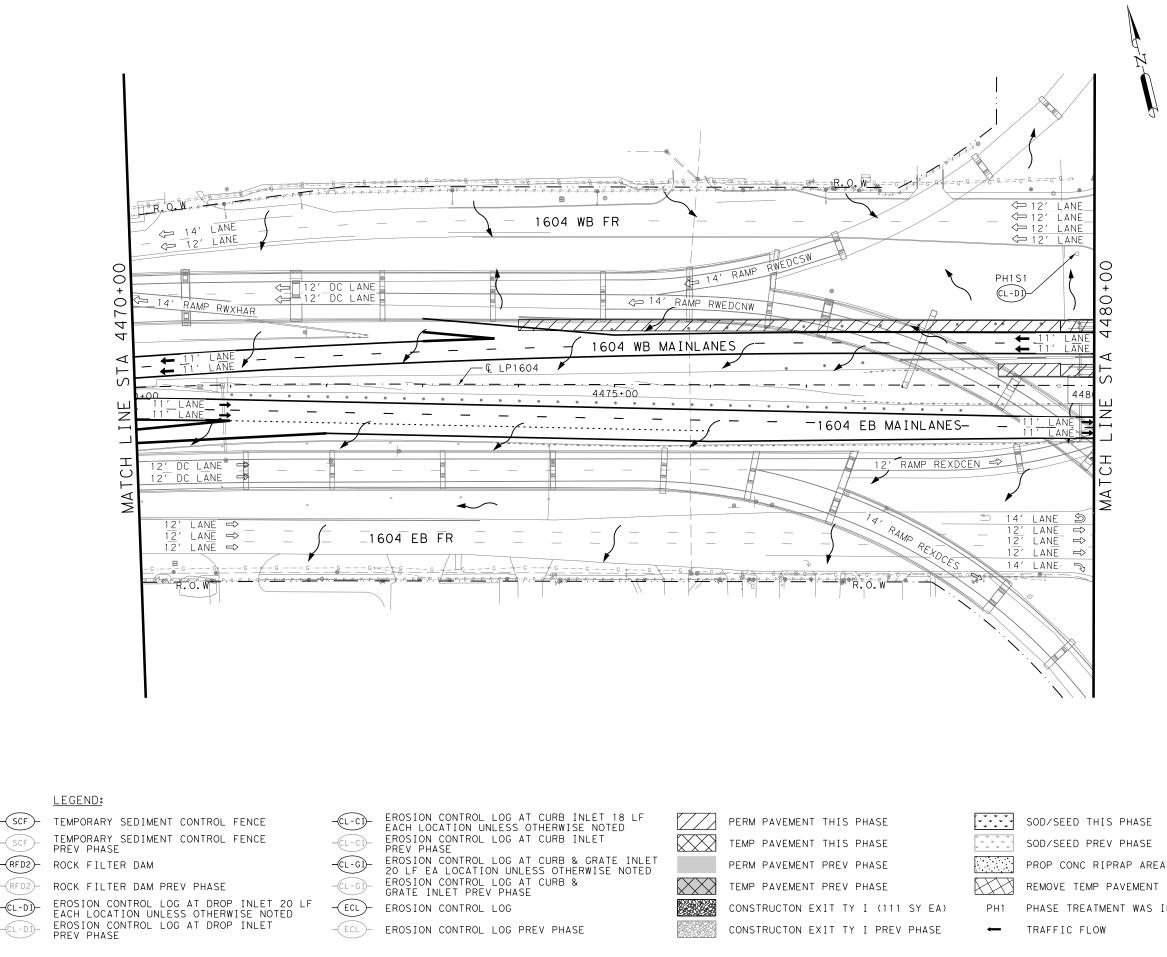




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20
×F	OR CONTRACTOR'S INFORMATI	ON ON	ΙY

- 1. REFER TO SW3P NARRATIVE SHEET FOR
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
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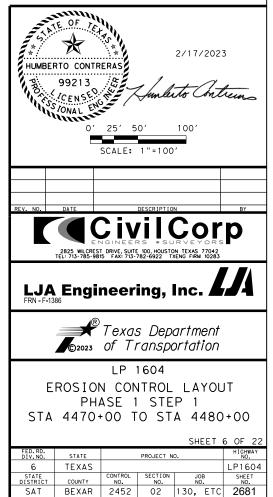




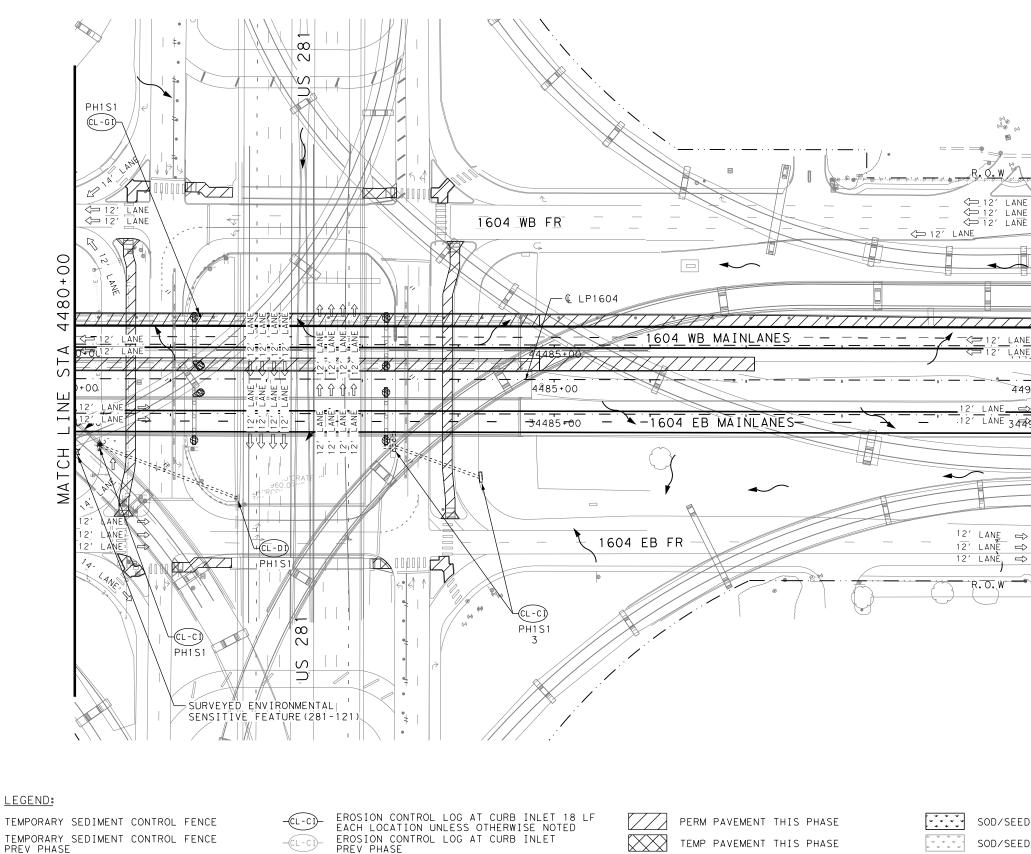
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20

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PHASE TREATMENT WAS INSTALLED



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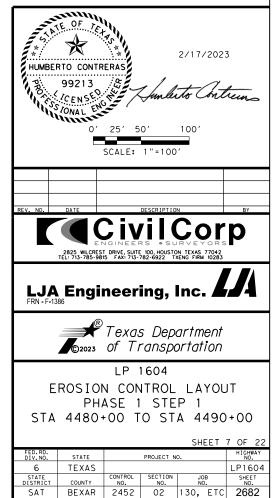
LEGEND:					
TEMPORARY SEDIMENT CONTROL FENCE	-CL - C I)-	EROSION CONTROL LOG AT CURB INLET 18 LF EACH LOCATION UNLESS OTHERWISE NOTED		PERM PAVEMENT THIS PHASE	. *
TEMPORARY SEDIMENT CONTROL FENCE PREV PHASE		EROSION CONTROL LOG AT CURB INLET PREV PHASE		TEMP PAVEMENT THIS PHASE	4 ¢
ROCK FILTER DAM	-CL-GI-	EROSION CONTROL LOG AT CURB & GRATE INLET 20 LF EA LOCATION UNLESS OTHERWISE NOTED		PERM PAVEMENT PREV PHASE	ŀ
ROCK FILTER DAM PREV PHASE	-CL-GI-	EROSION CONTROL LOG AT CURB & GRATE INLET PREV PHASE	$\times\!\!\!\times\!\!\!\times$	TEMP PAVEMENT PREV PHASE	R
EROSION CONTROL LOG AT DROP INLET 20 LF EACH LOCATION UNLESS OTHERWISE NOTED	-ECL-	EROSION CONTROL LOG		CONSTRUCTON EXIT TY I (111 SY EA)	
EROSION CONTROL LOG AT DROP INLET PREV PHASE	- ECL-	EROSION CONTROL LOG PREV PHASE	880088600 198008860 198008860	CONSTRUCTON EXIT TY I PREV PHASE	



	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	94
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	94
* [FOR CONTRACTOR'S INFORMATIO	10 N	NLY

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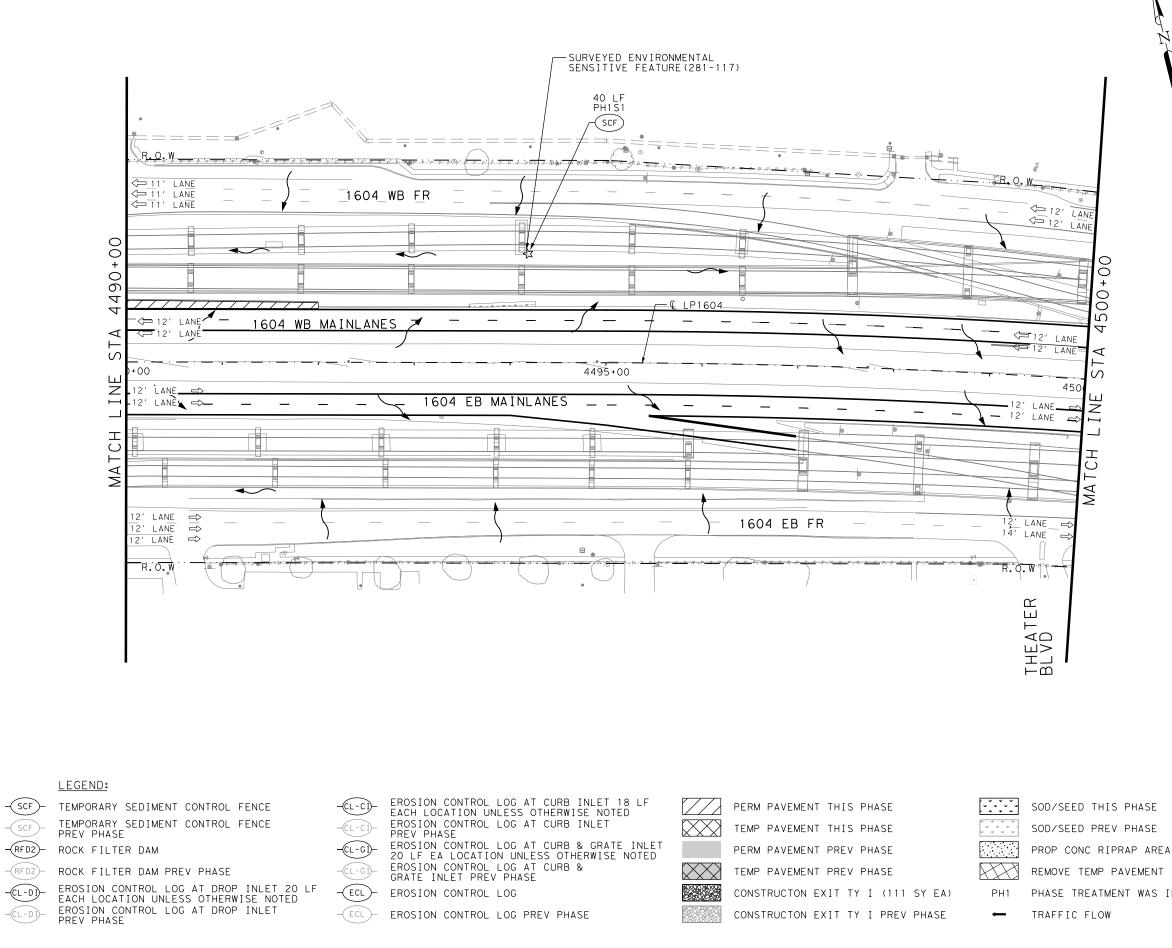
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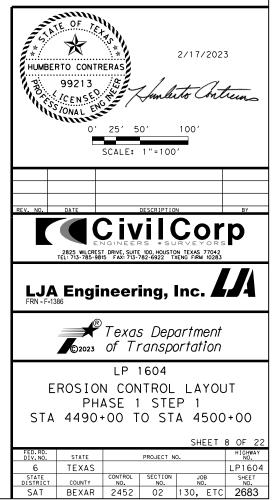
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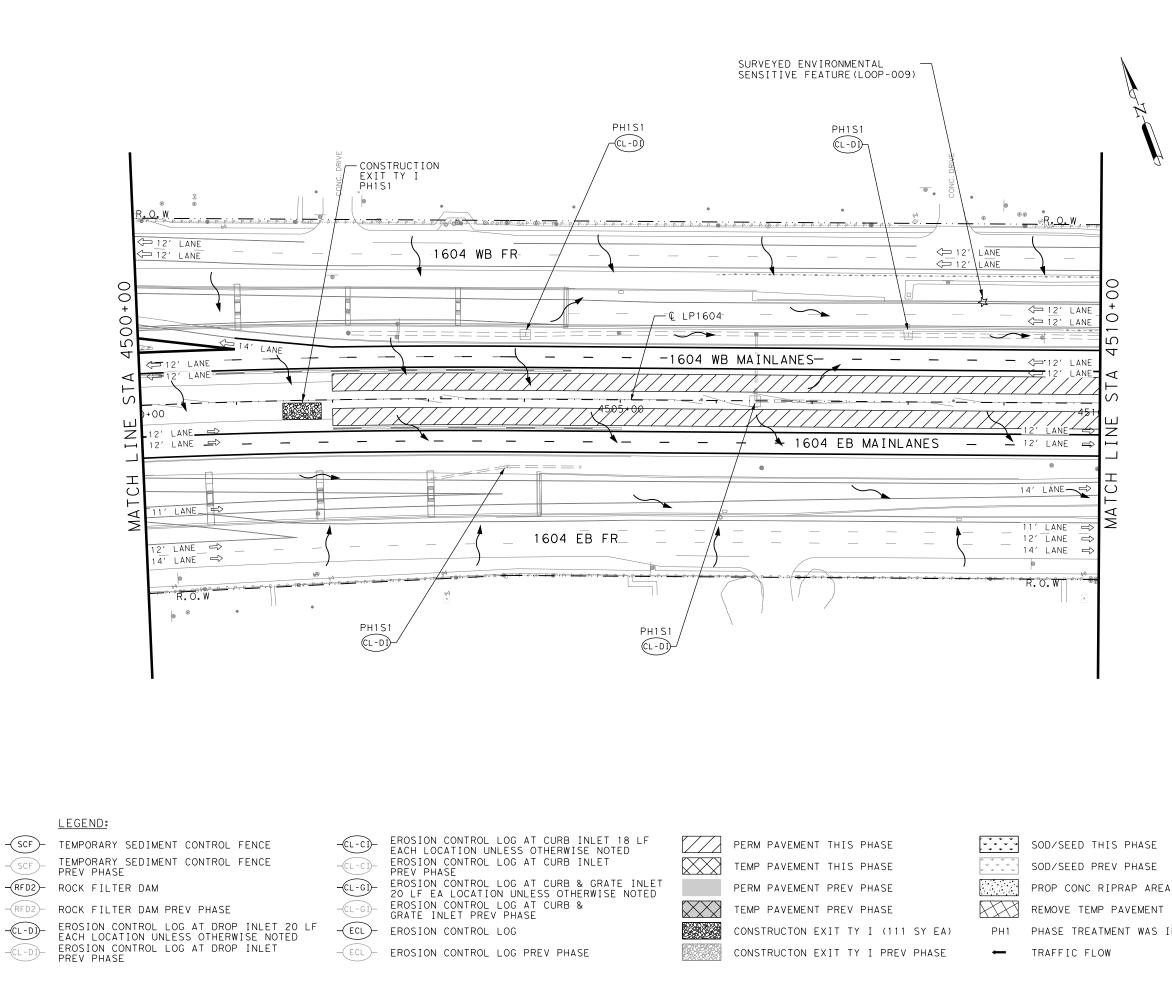


	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	111
506	CONSTRUCTION EXITS (REMOVE)	SY	111
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	40
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	40
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0
* F	FOR CONTRACTOR'S INFORMATIO	N OI	NLY

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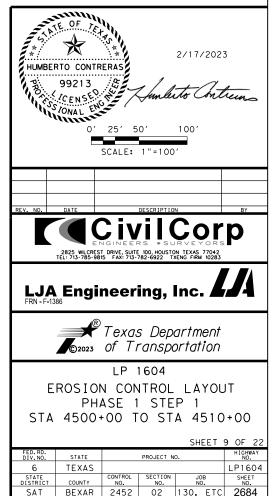
PHASE TREATMENT WAS INSTALLED





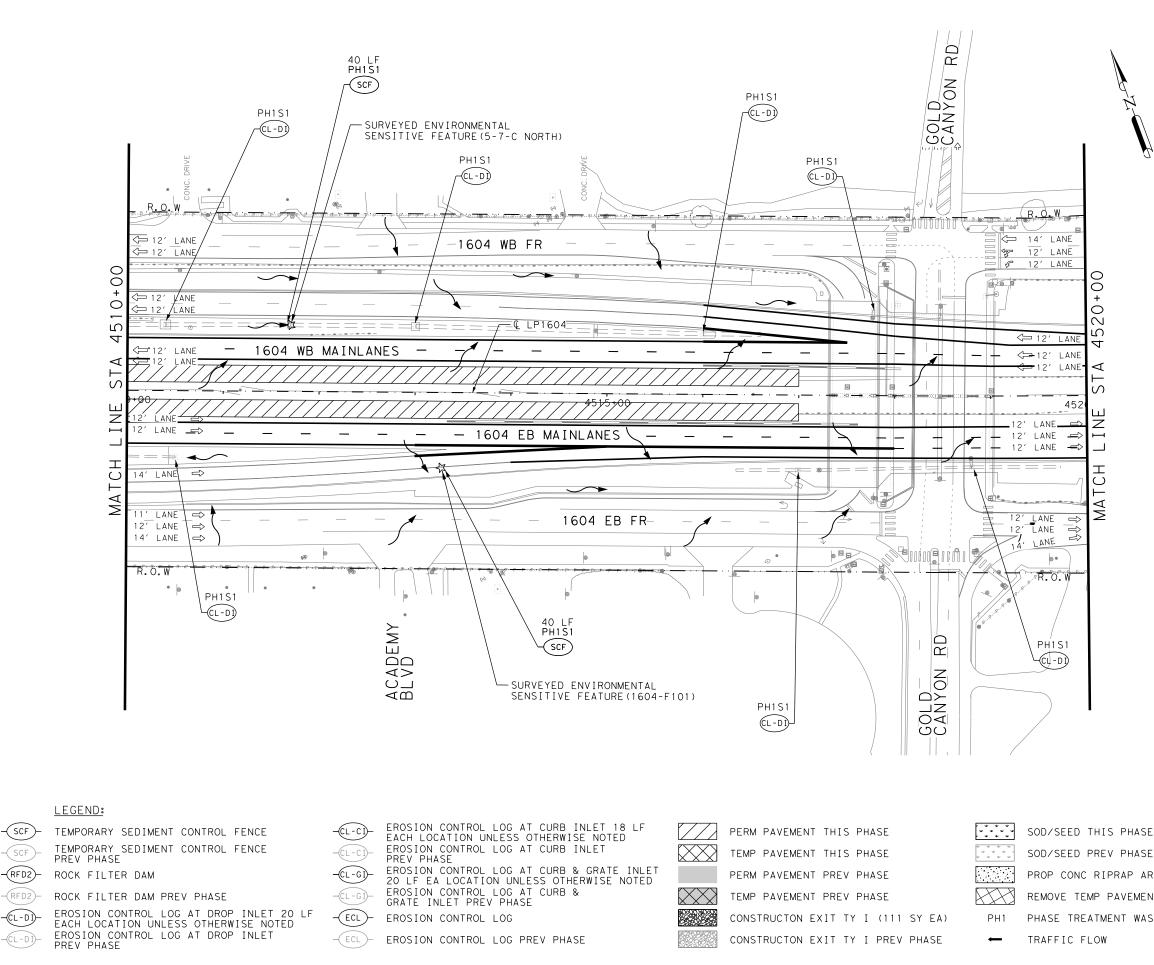
	QUANTITY SUMMARY CSJ 0072-08-130, ET	C	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	111
506	CONSTRUCTION EXITS (REMOVE)	SY	111
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	80
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	80
* F	FOR CONTRACTOR'S INFORMATIO	N OI	NL Y

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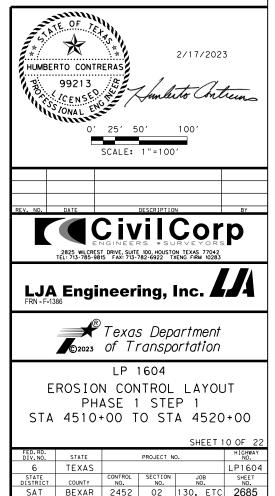


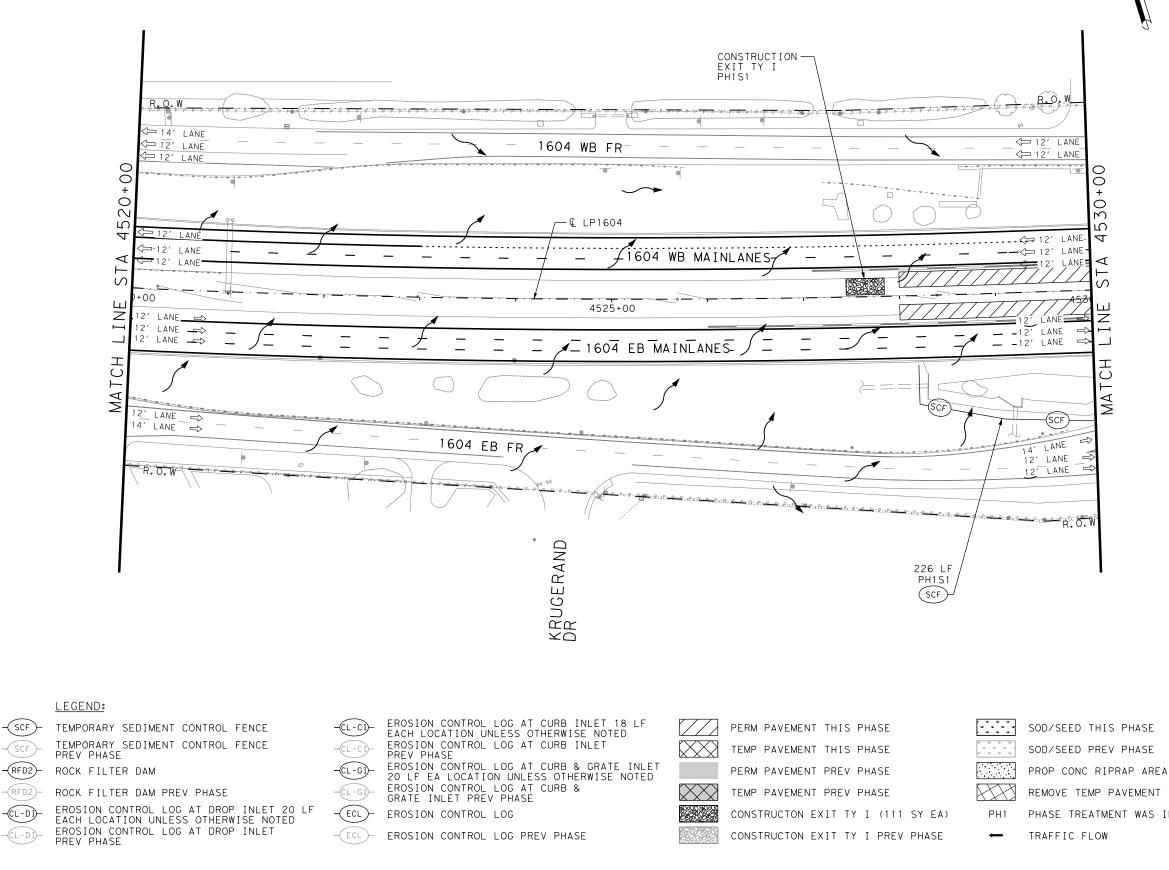


	QUANTITY SUMMARY CSJ 0072-08-130, ET	C	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	80
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	80
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	140
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	140

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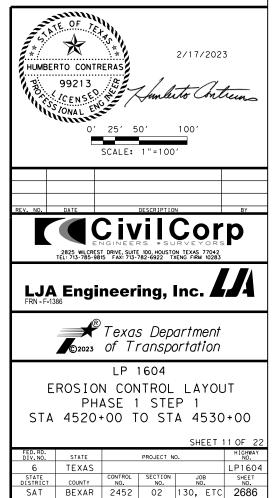




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	111
506	CONSTRUCTION EXITS (REMOVE)	SY	111
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	226
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	226
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

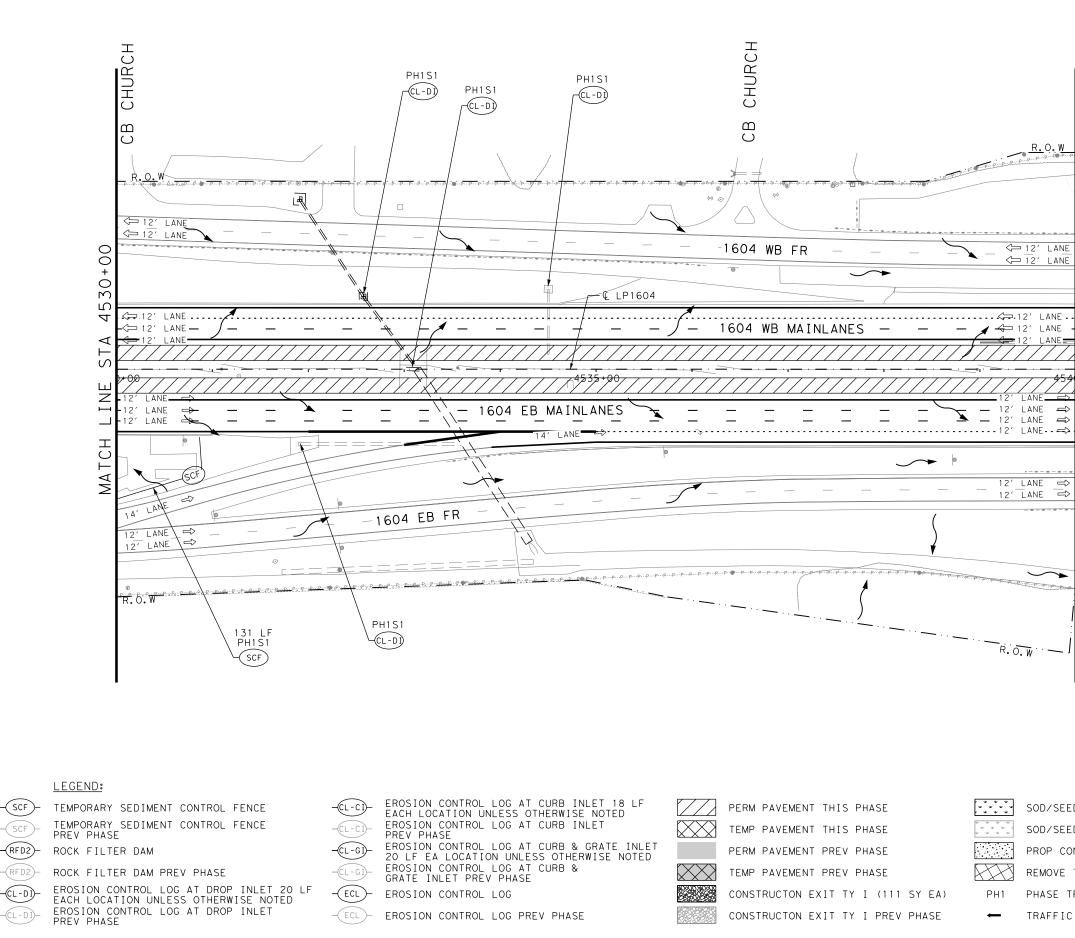
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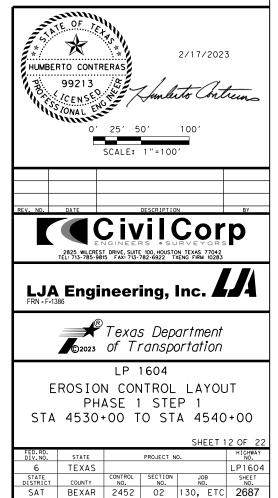
SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED TRAFFIC FLOW



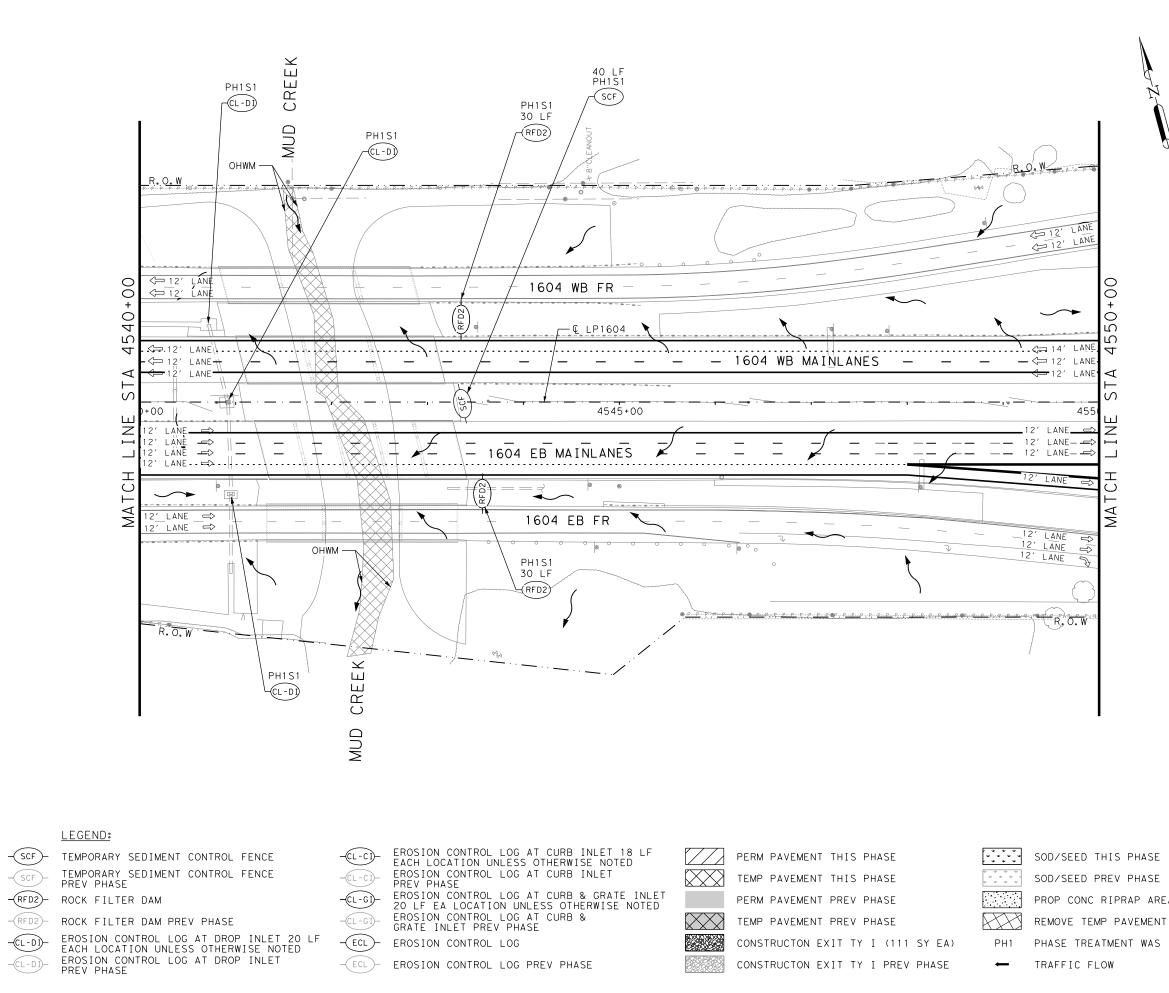
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	131
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	131
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	80
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	80

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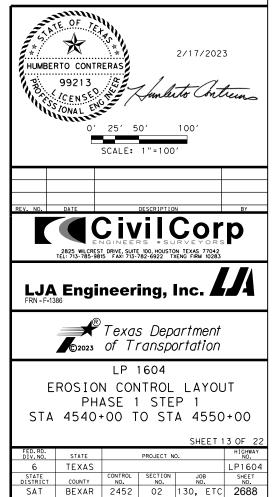




ITEM	QUANTITY SUMMARY CSJ 0072-08-130, ET DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	60
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	60
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	4
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	40
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	40
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	60
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	60

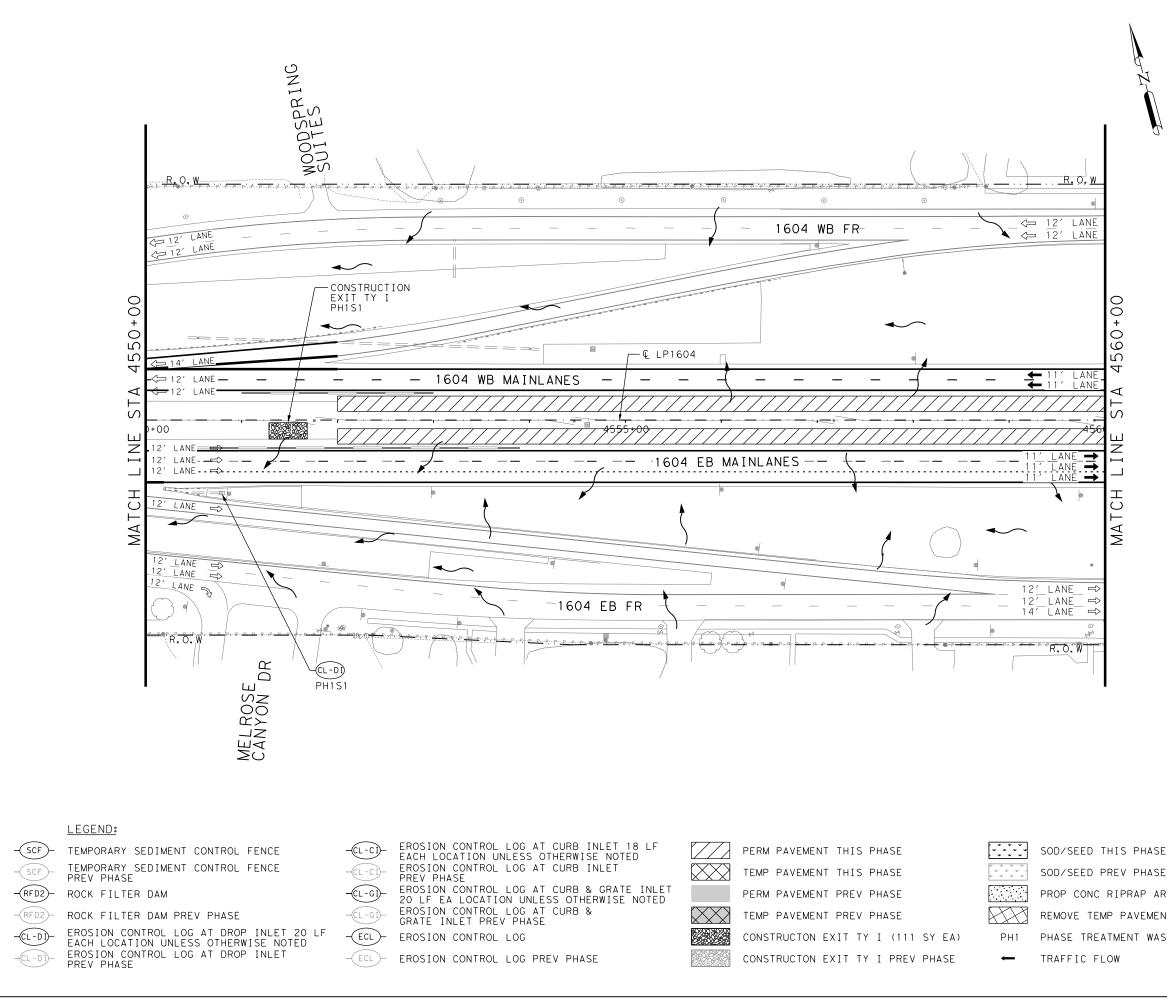
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- DETAILS. EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
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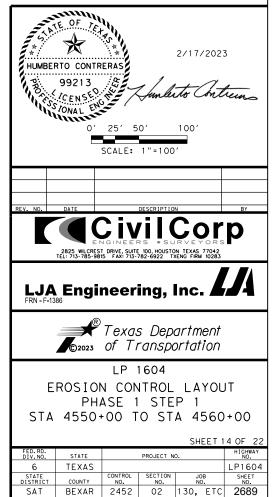




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	111
506	CONSTRUCTION EXITS (REMOVE)	SY	111
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20

NOTES:

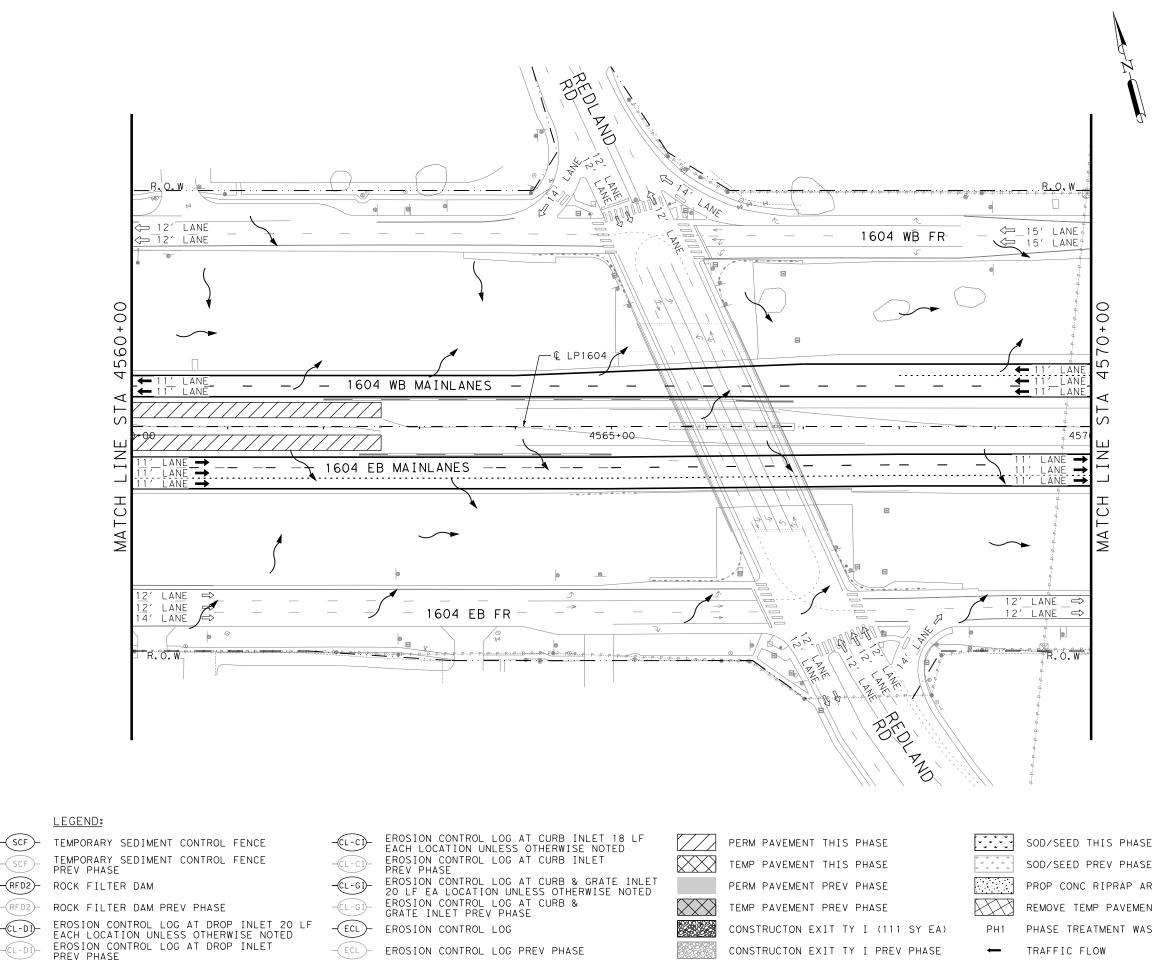
- REFER TO SW3P NARRATIVE SHEET FOR 1.
- OTHER NOTES. ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
- REFER TO SW3P STANDARD SHEETS FOR 3. DETAILS.
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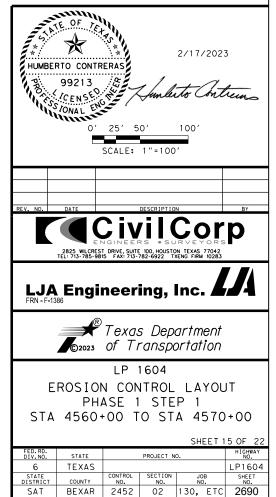




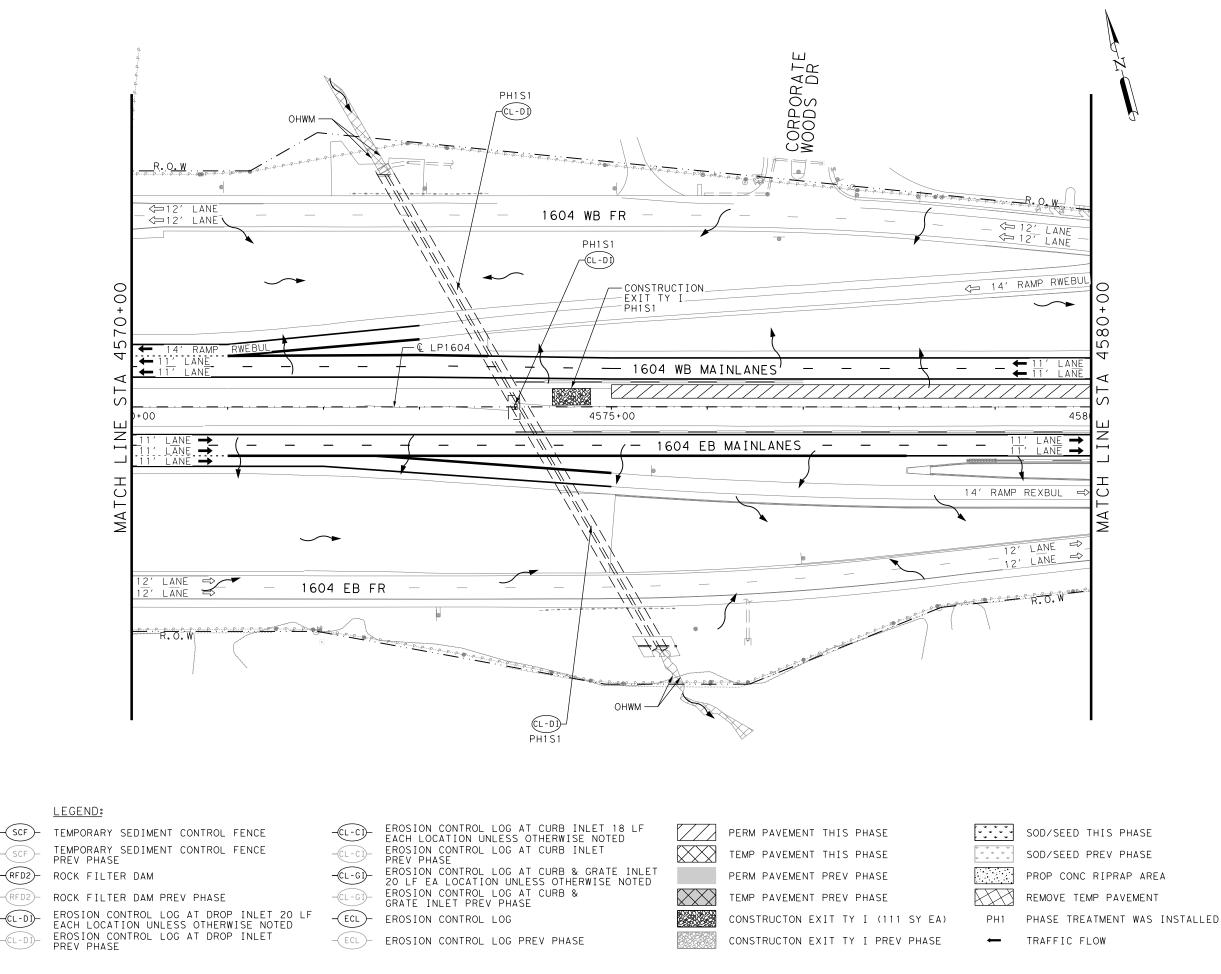
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

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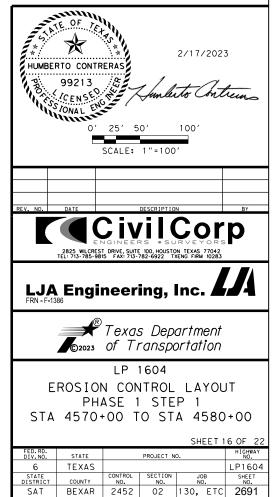




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	111
506	CONSTRUCTION EXITS (REMOVE)	SY	111
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	60
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	60

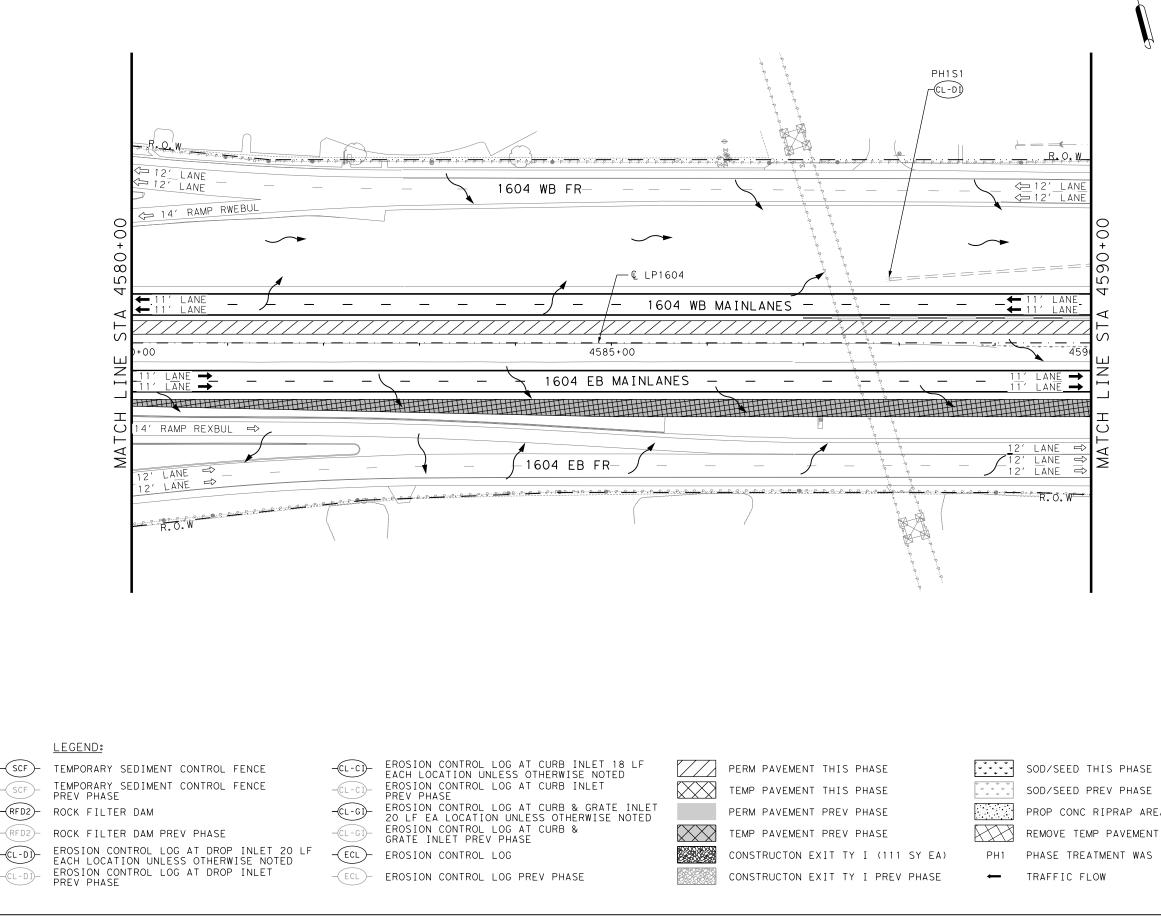
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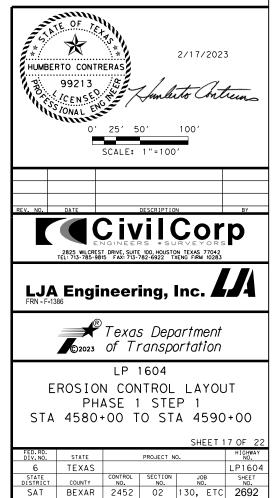




ITEM	QUANTITY SUMMARY CSJ 0072-08-130, E DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20

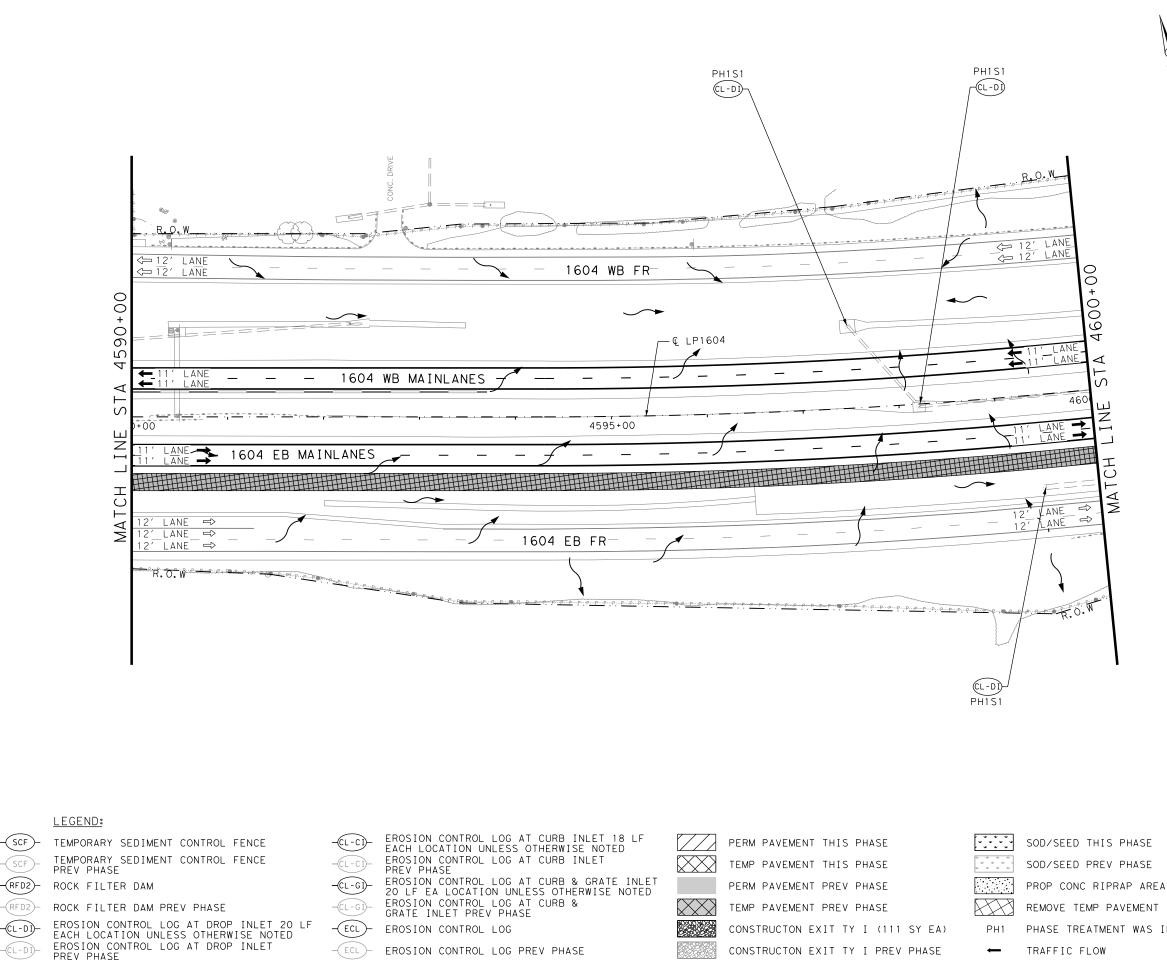
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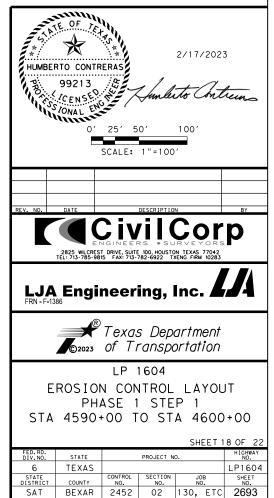
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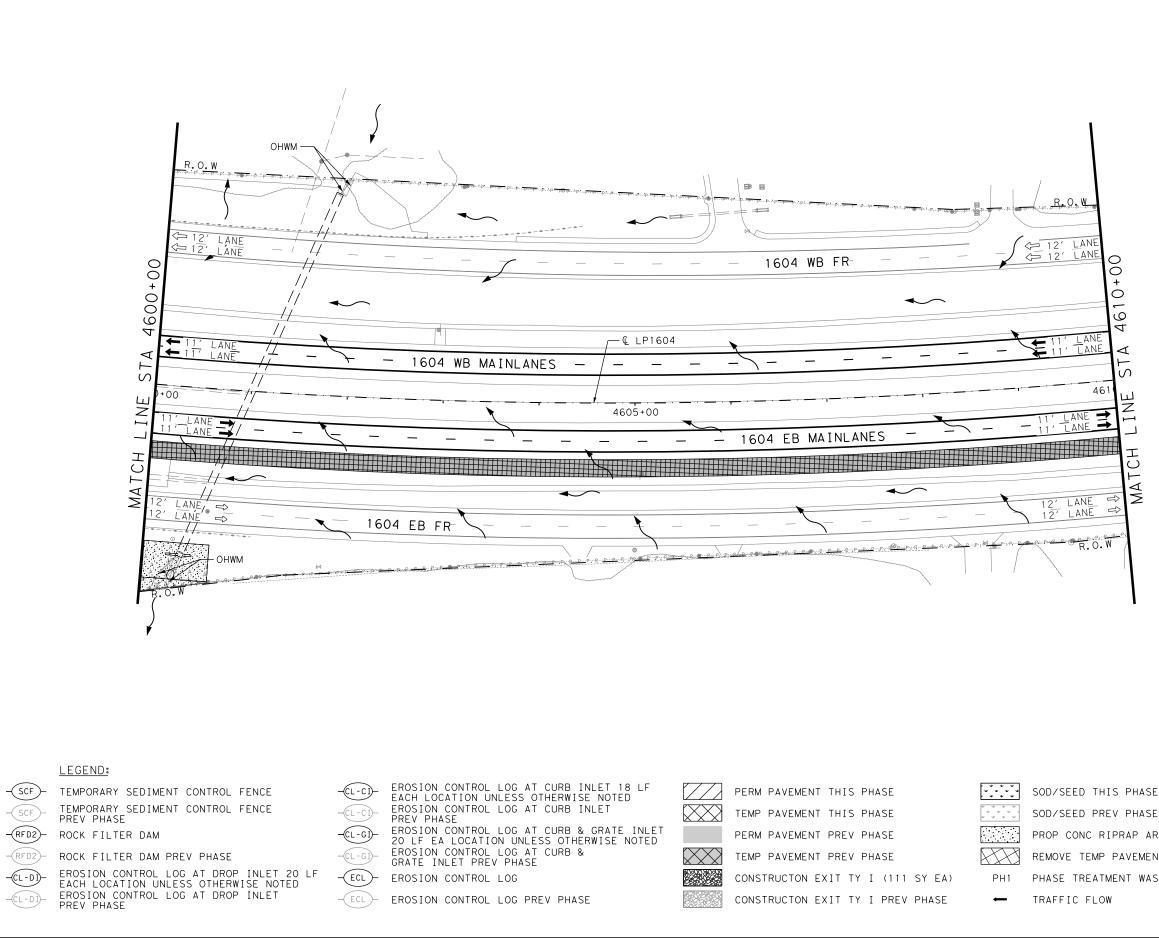
	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	60
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	60
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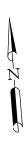
- 1. REFER TO SW3P NARRATIVE SHEET FOR
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
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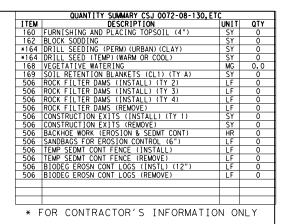
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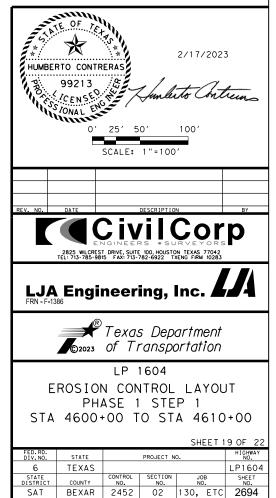
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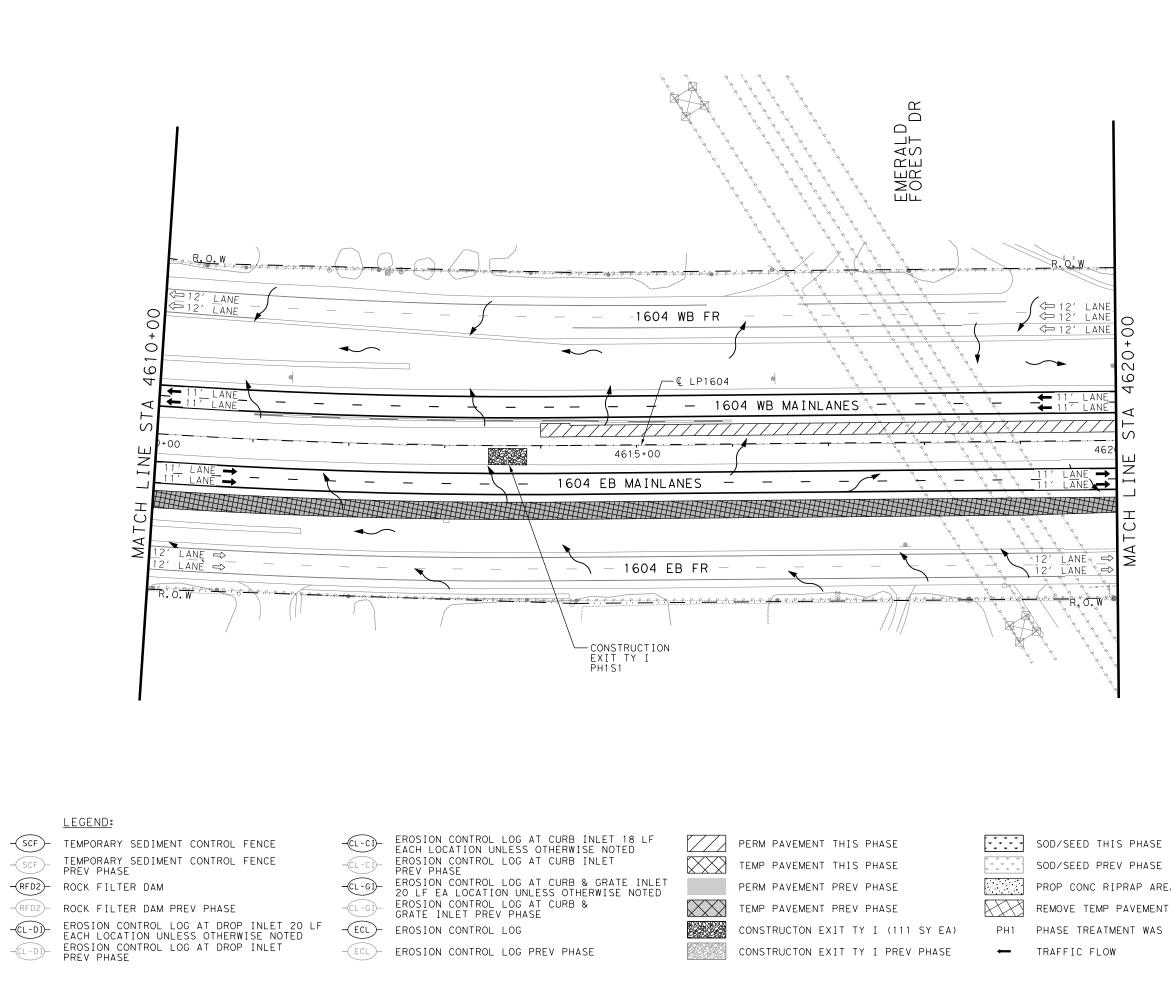
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NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON 2. STANDARDS EC(1)-EC(3).
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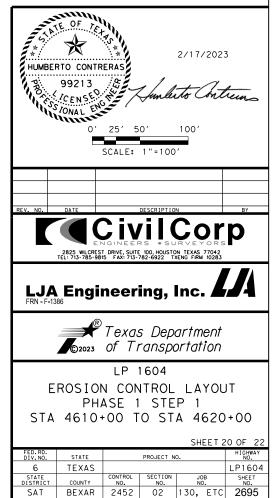




ITEM	QUANTITY SUMMARY CSJ 0072-08-130,E1 DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	
			0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	111
506	CONSTRUCTION EXITS (REMOVE)	SY	111
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

NOTES:

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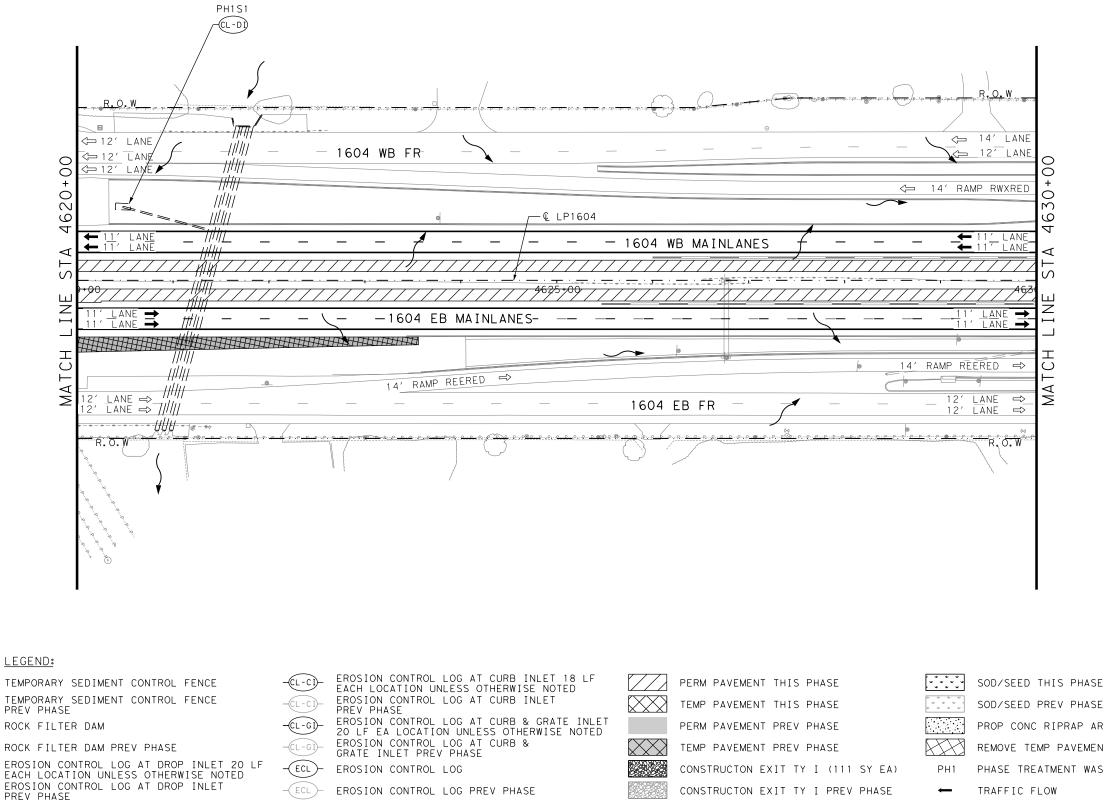
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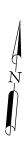
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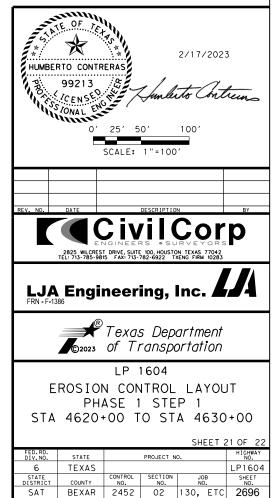
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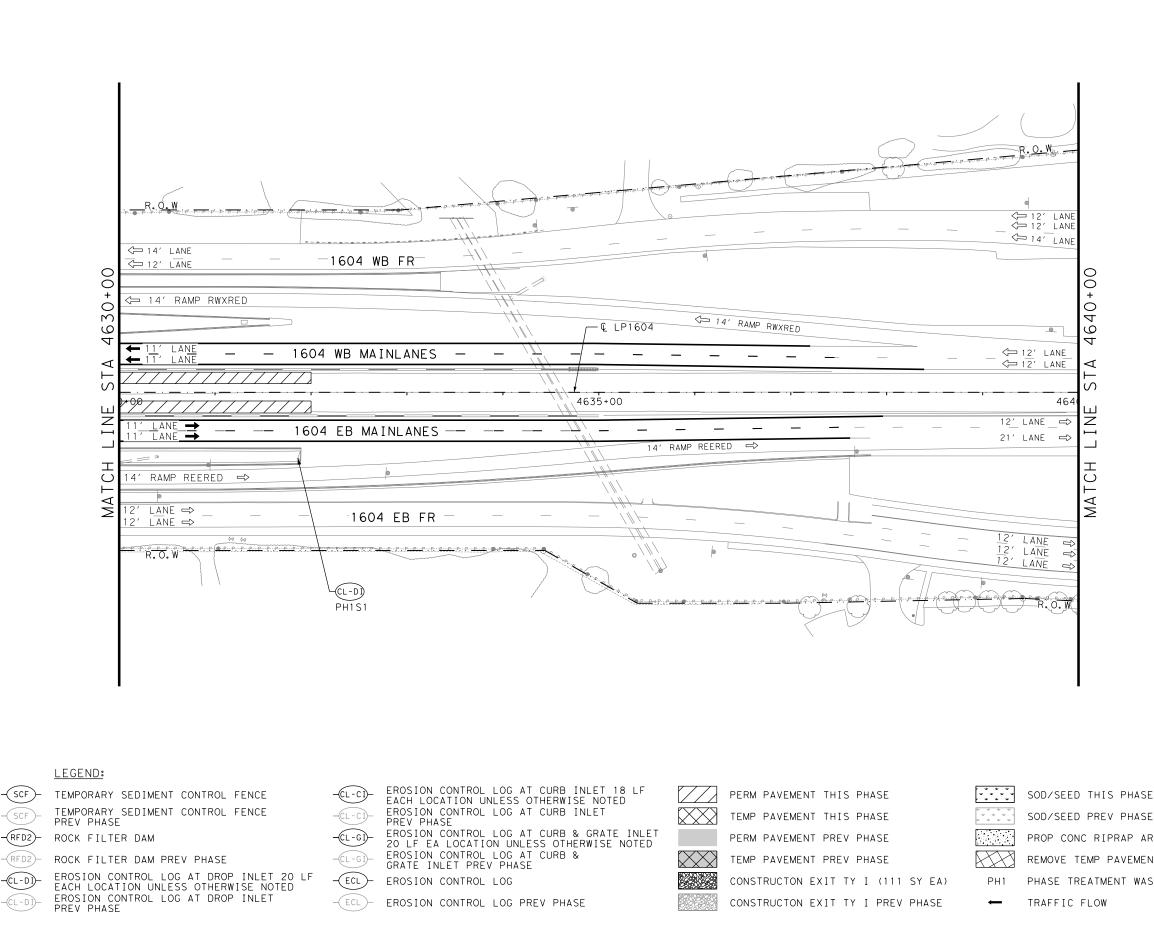


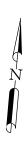
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ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
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*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20
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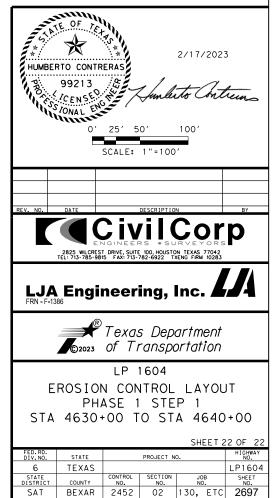


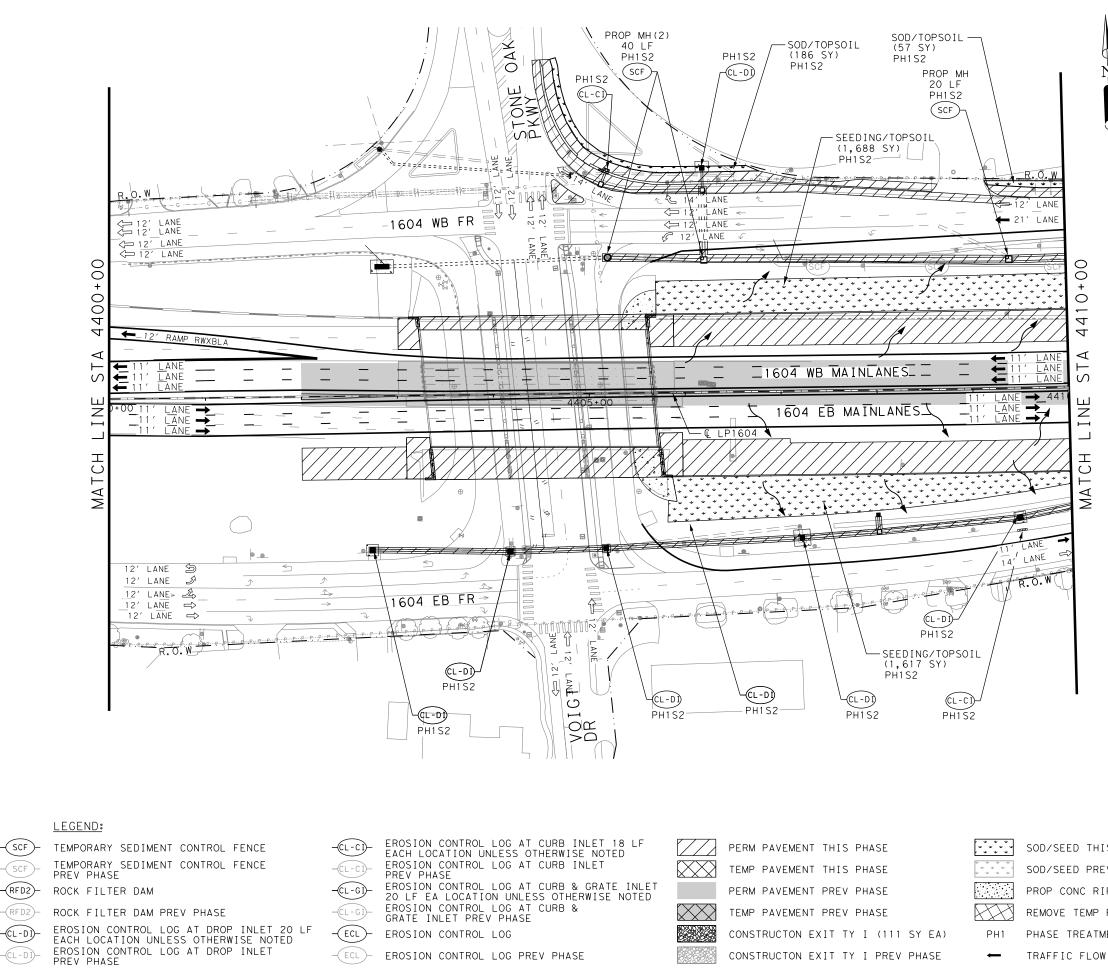


	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20
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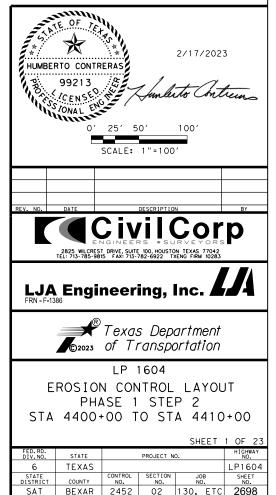




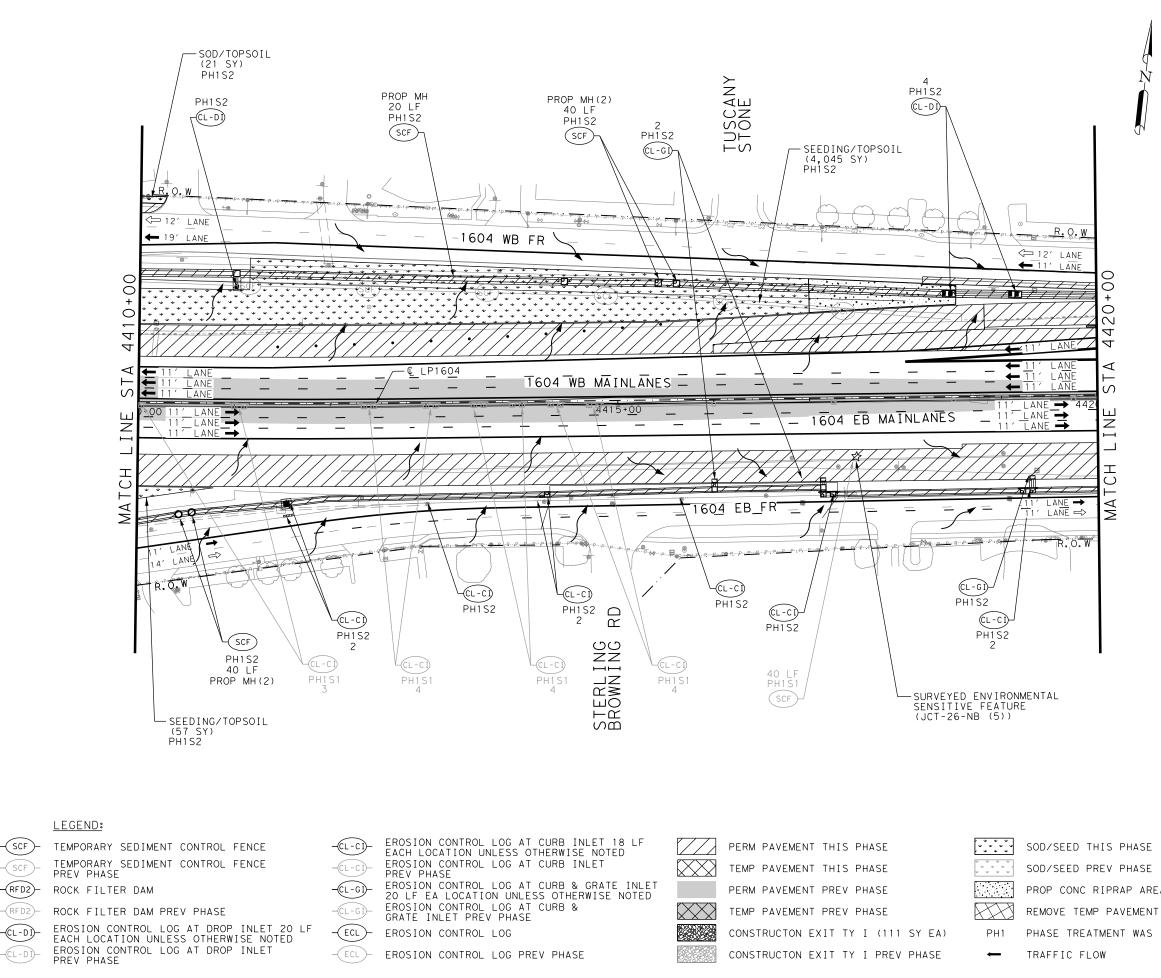
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	3548
162	BLOCK SODDING	SY	243
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	3305
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	3305
168	VEGETATIVE WATERING	MG	55.3
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	3548
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	60
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	60
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	176
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	176

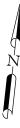
NOTES:

- 1. REFER TO SW3P NARRATIVE SHEET FOR
- OTHER NOTES. ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON 2. STANDARDS EC(1)-EC(3).
- REFER TO SW3P STANDARD SHEETS FOR 3. DETATI S.
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SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED





QUANTITY SUMMARY CSJ 0072-08-130, ET DESCRIPTION FURNISHING AND PLACING TOPSOIL (4") OTY
 1.60
 FURNISHING AND PLACING TOPSOIL (4")

 160
 FURNISHING AND PLACING TOPSOIL (4")

 162
 BLOCK SODDING

 *164
 DRILL SEEDING (PERM) (URBAN) (CLAY)

 *164
 DRILL SEED (TEMP) (WARM OR COOL)

 168
 VEGETATIVE WATERING

 169
 SOIL RETENTION BLANKETS (CL1) (TY A)

 506
 ROCK FILTER DAMS (INSTALL) (TY 2)

 506
 ROCK FILTER DAMS (INSTALL) (TY 4)

 506
 ROCK FILTER DAMS (INSTALL) (TY 4)

 506
 ROCK FILTER DAMS (INSTALL) (TY 1)

 506
 ROCK FILTER DAMS (INSTALL) (TY 1)

 506
 ROCK FILTER DAMS (INSTALL) (TY 1)

 506
 ROCK FILTER DAMS (REMOVE)

 506
 CONSTRUCTION EXITS (REMOVE)

 506
 SONSTRUCTION EXITS (REMOVE)

 506
 BACKHOE WORK (EROSION & SEDMT CONT)

 506
 SANDBAGS FOR EROSION CONTONE (INSTALL)

 506
 TEMP SEDMT CONT FENCE (REMOVE)

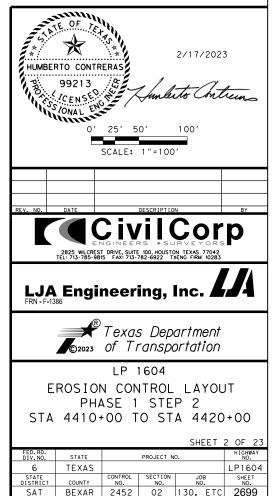
 506
 BIODEG EROSN CONT LOGS (INSTL) (12")

 LF 304 LF 304

* FOR CONTRACTOR'S INFORMATION ONLY

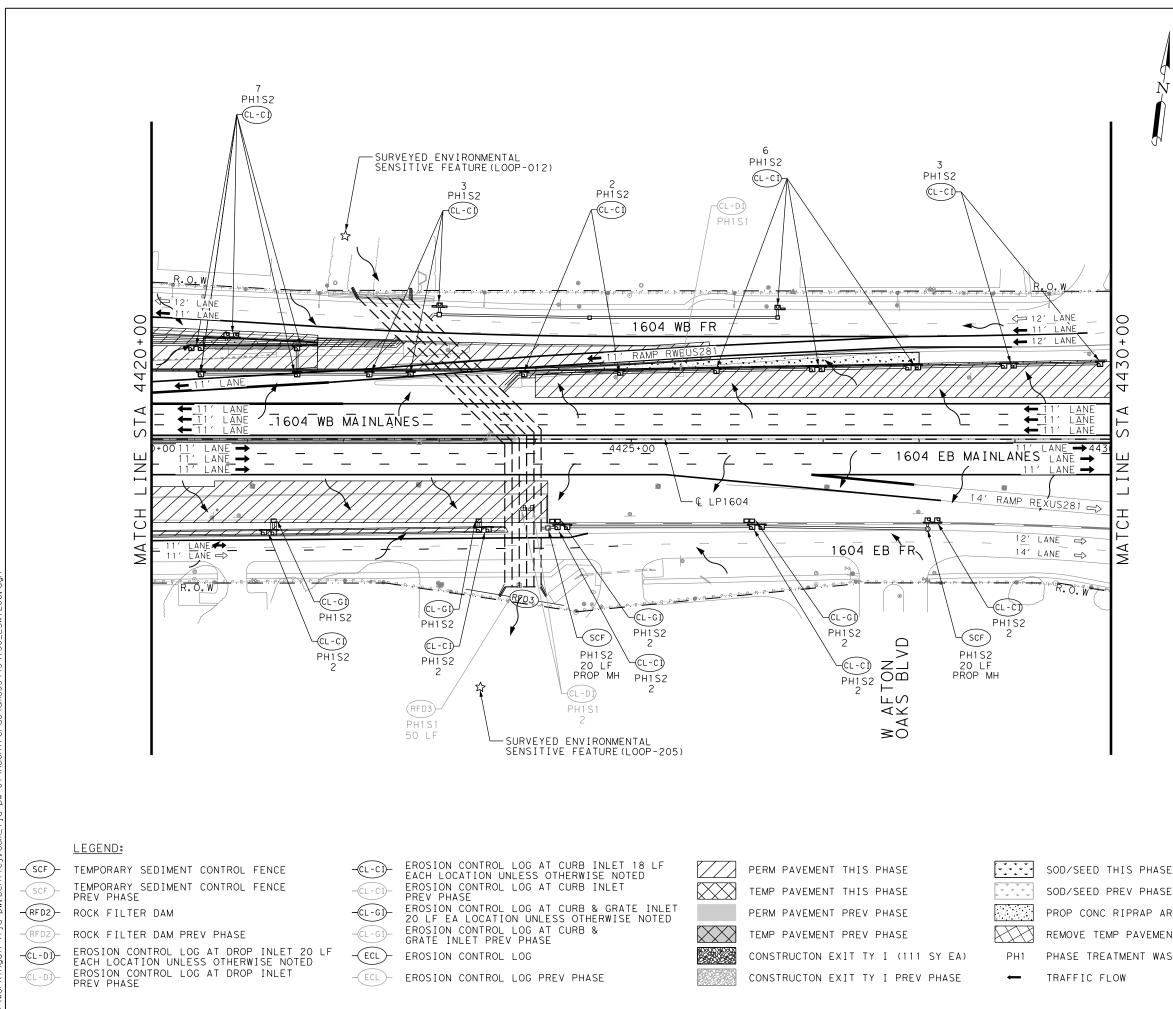
NOTES:

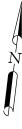
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PROP CONC RIPRAP AREA PHASE TREATMENT WAS INSTALLED

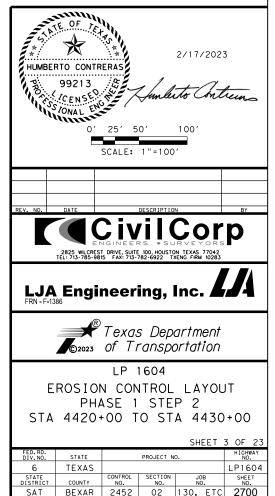




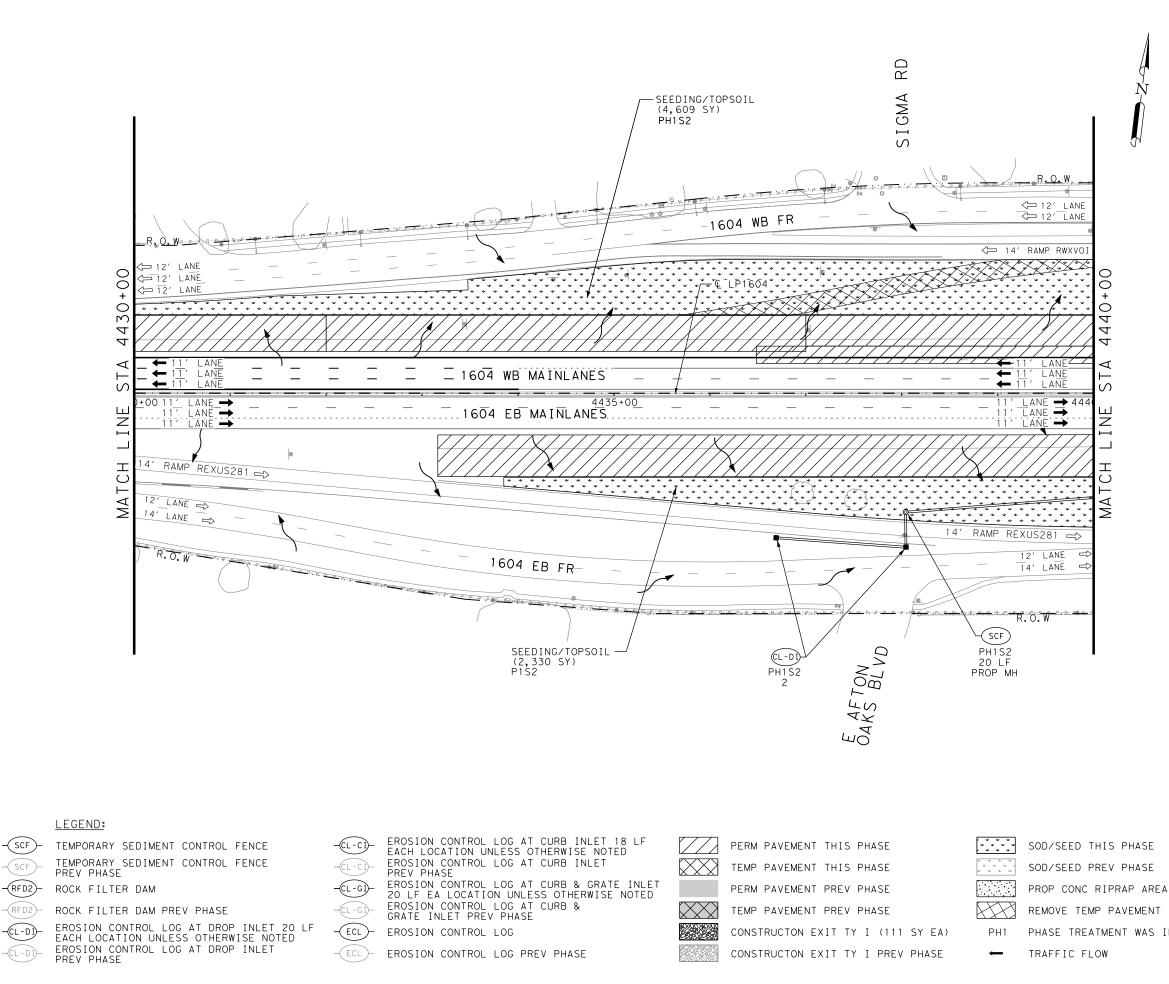
ITEM	QUANTITY SUMMARY CSJ 0072-08-130, E DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	678
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	678

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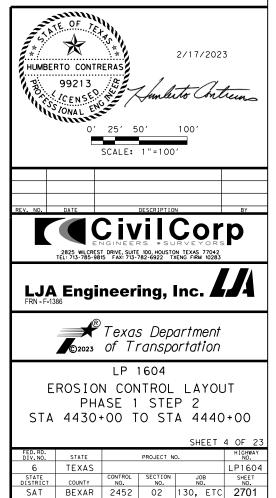




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	6939
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	6939
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	6939
168	VEGETATIVE WATERING	MG	108.2
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	6939
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	40
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	40

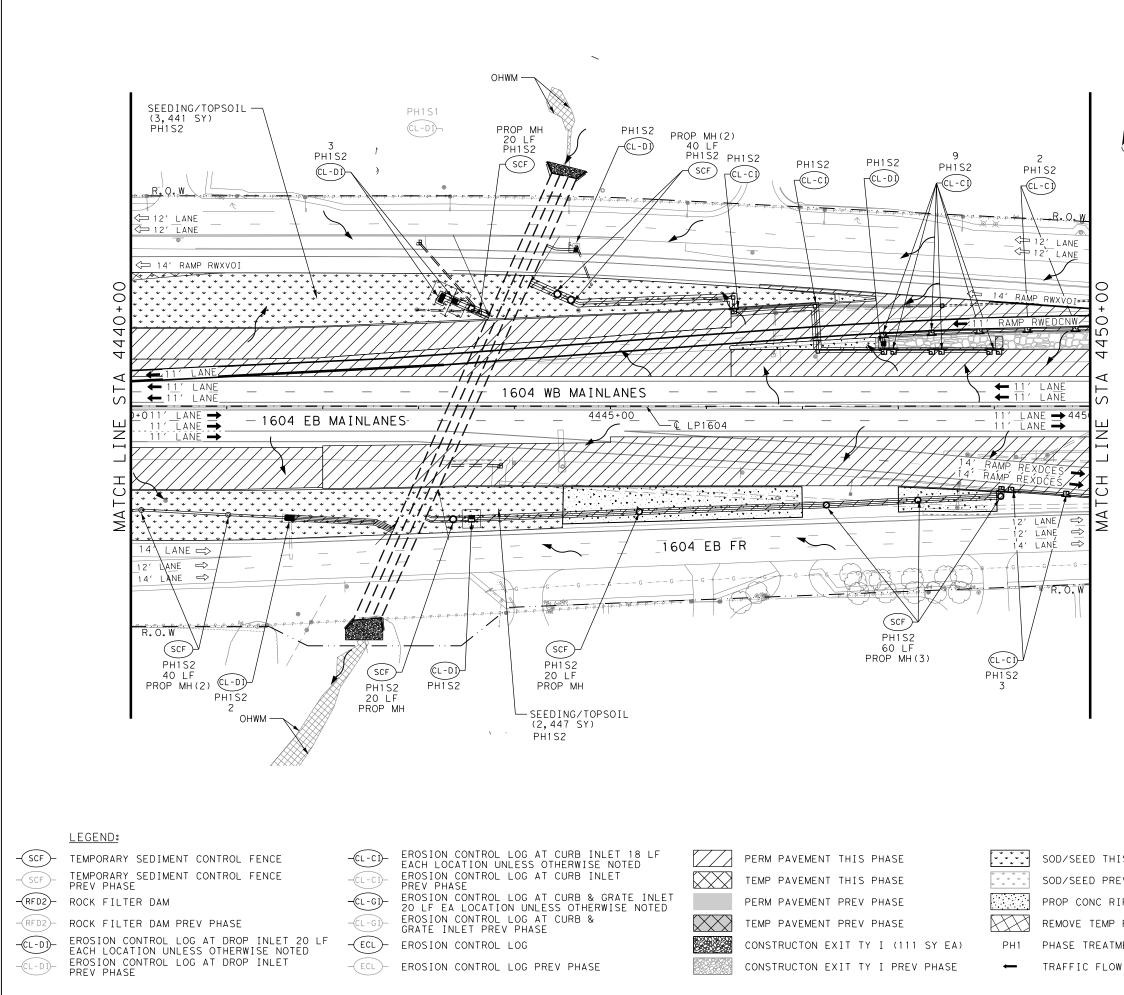
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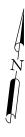
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PHASE TREATMENT WAS INSTALLED

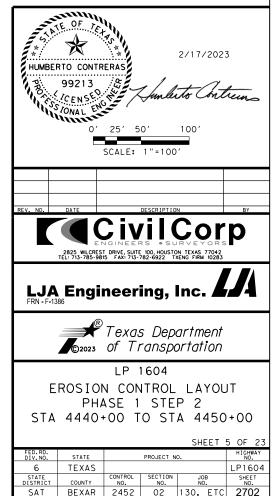




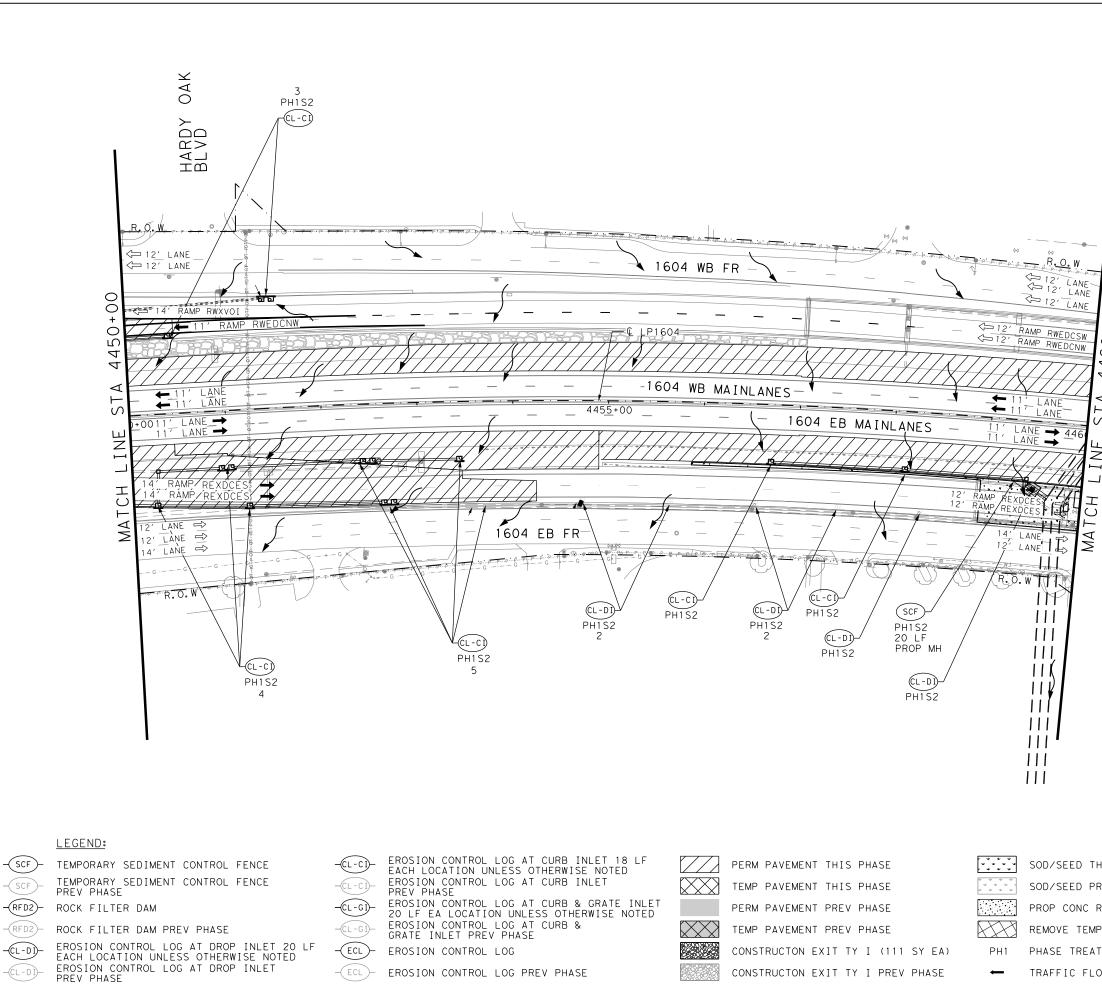
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	5888
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	5888
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	5888
168	VEGETATIVE WATERING	MG	91.9
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	5888
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	200
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	200
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	448
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	448

NOTES:

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SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED



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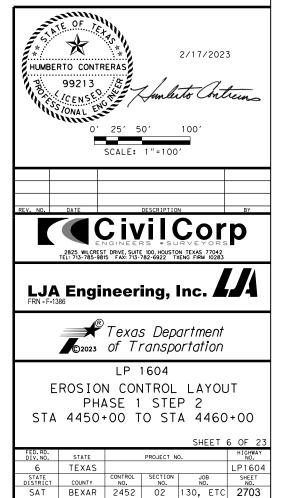
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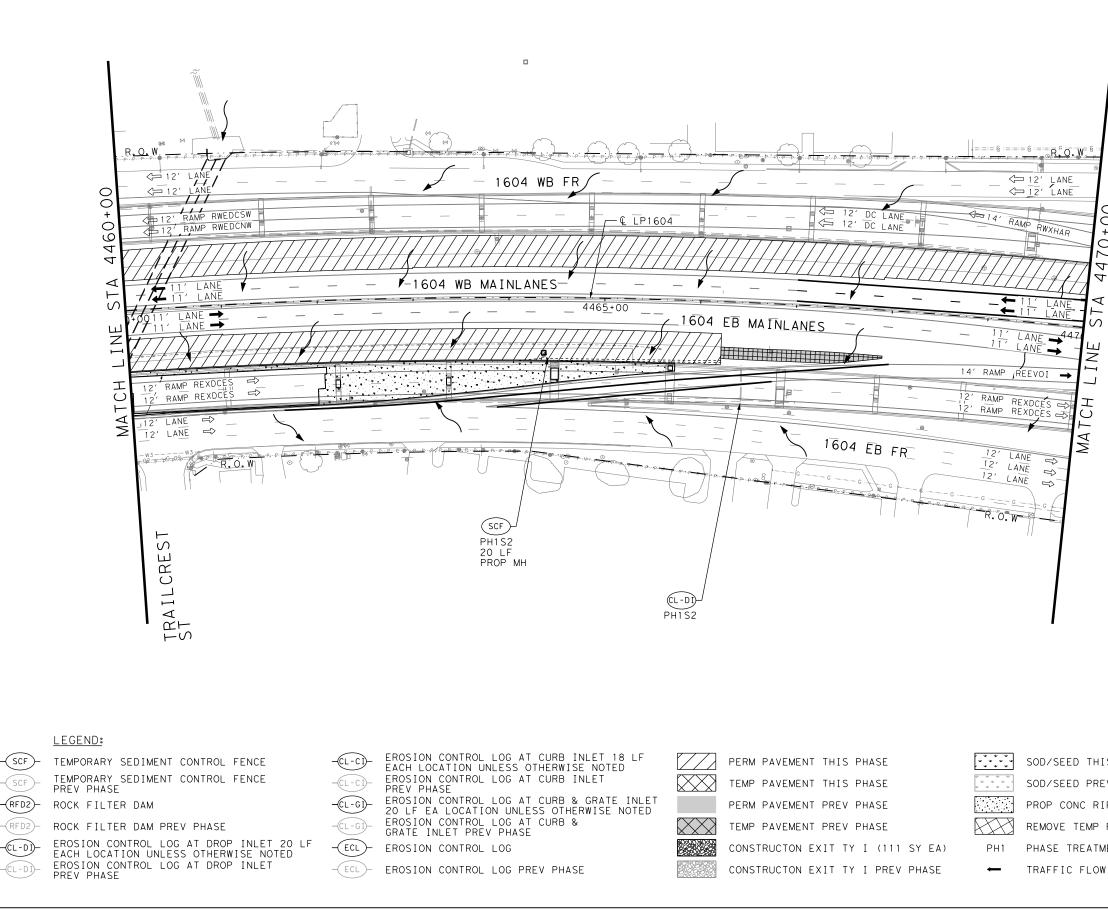
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	372
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	372

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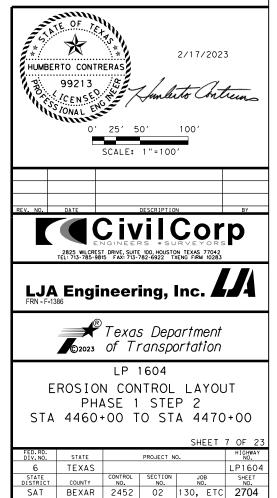




	QUANTITY SUMMARY CSJ 0072-08-130.ETC			
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0	
162	BLOCK SODDING	SY	0	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	0.0	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20	

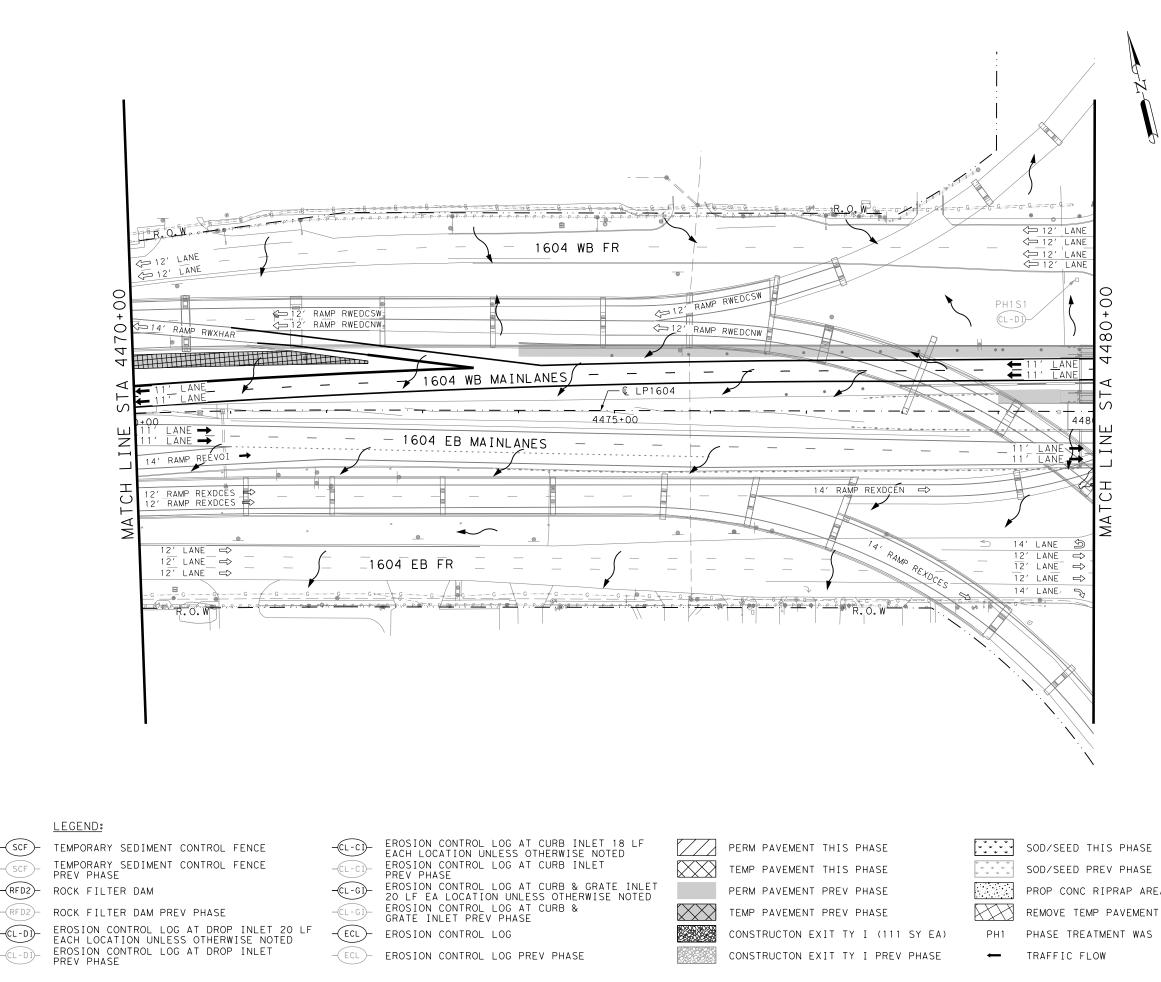
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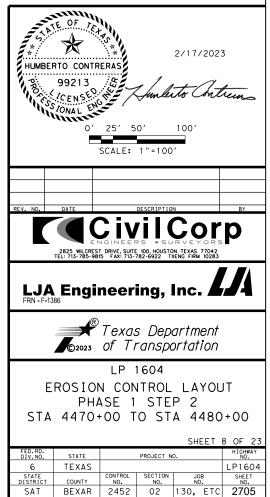


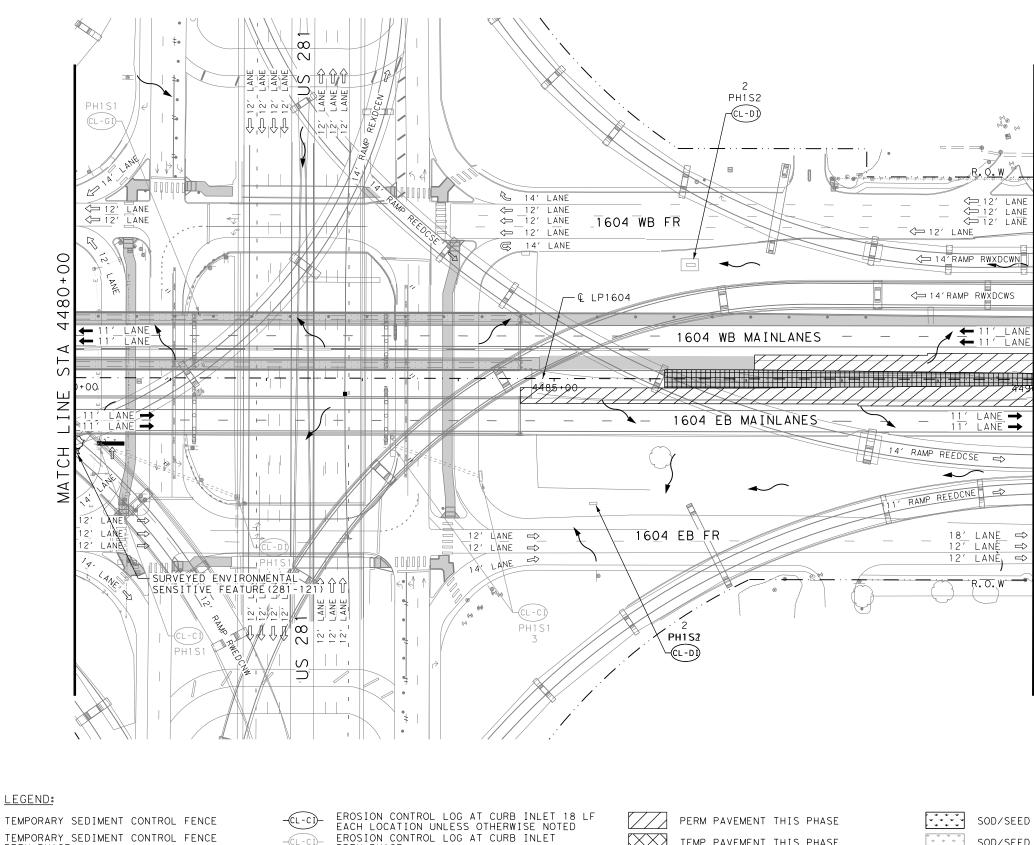


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

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- -(CL C Ì) PRFV PHASE
- EROSION CONTROL LOG AT CURB & GRATE INLET -(CL - G Ì)-20 LF EA LOCATION UNLESS OTHERWISE NOTED EROSION CONTROL LOG AT CURB & --(CL - G Ì)-GRATE INLET PREV PHASE
- -(ECL)-EROSION CONTROL LOG
- -(ECL) EROSION CONTROL LOG PREV PHASE
- $\left|\right\rangle$

TEMP PAVEMENT THIS PHASE PERM PAVEMENT PREV PHASE TEMP PAVEMENT PREV PHASE

CONSTRUCTON EXIT TY I (111 SY EA)

CONSTRUCTON EXIT TY I PREV PHASE



PH1

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-(scf)

-(SCF

-(RFD2)-

-(RFD2)

-(CL-D])-

--(CL - D Ì)-

PREV PHASE

PREV PHASE

ROCK FILTER DAM

ROCK FILTER DAM PREV PHASE

EROSION CONTROL LOG AT DROP INLET 20 LF

EACH LOCATION UNLESS OTHERWISE NOTED

EROSION CONTROL LOG AT DROP INLET

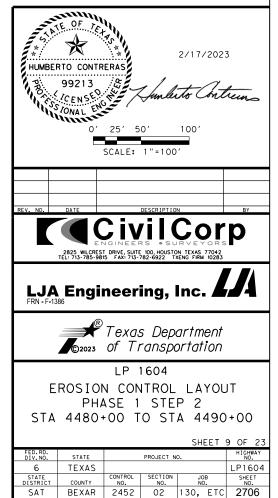




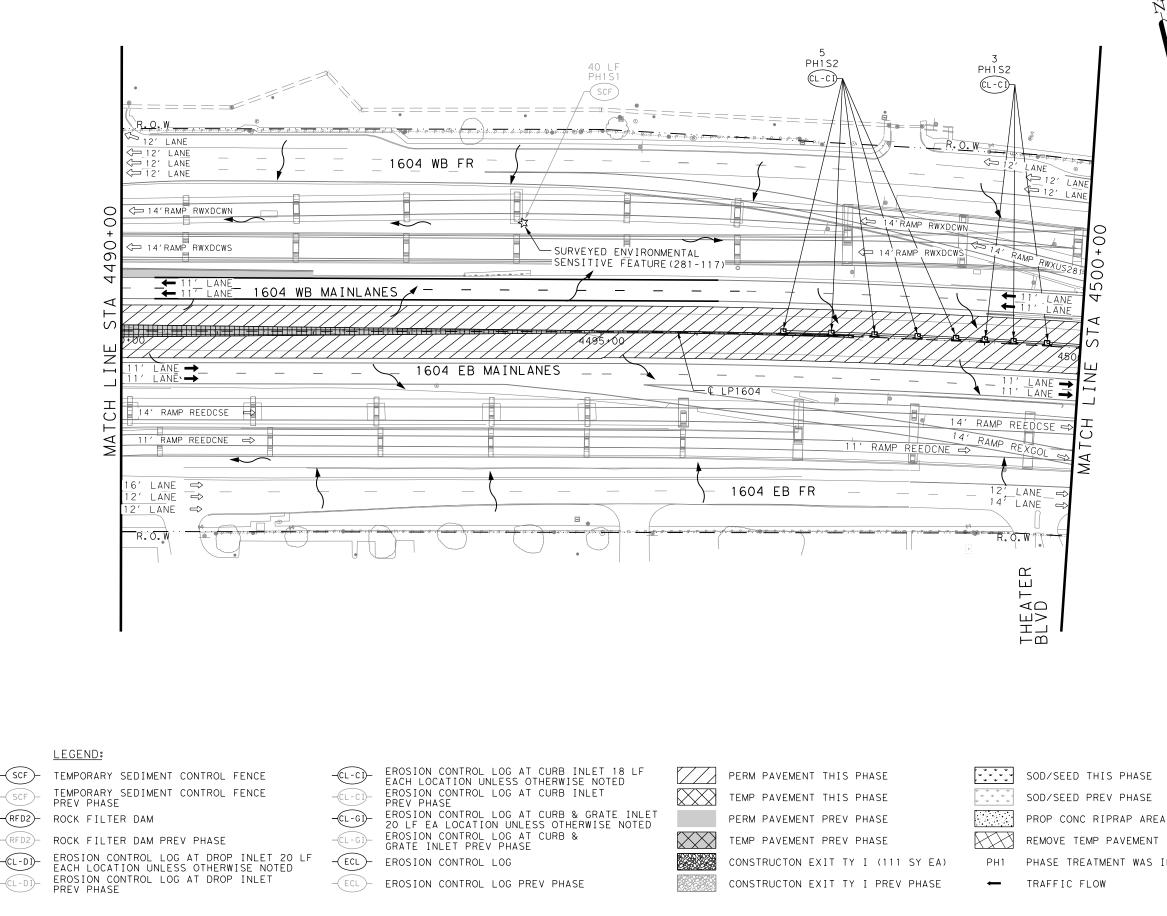
	QUANTITY SUMMARY CSJ 0072-08-130, ETC			
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0	
162	BLOCK SODDING	SY	0	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	0.0	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	80	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	80	
*	FOR CONTRACTOR'S INFORMATIO	N OI	VLY	

NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON 2.
- STANDARDS EC(1)-EC(3). REFER TO SW3P STANDARD SHEETS FOR 3. DETATI S.
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- EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
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- CONSTRUCTION EXITS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. ALL CONSTRUCTION EXITS WILL BE MOVED AND RESET DURING EACH CONTRUCTION 8. PHASE.



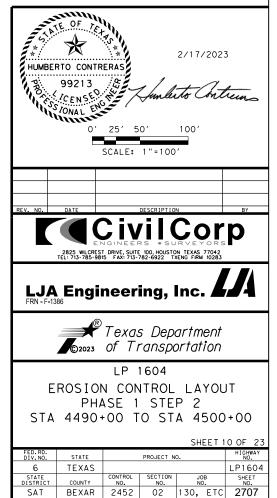
SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED TRAFFIC FLOW



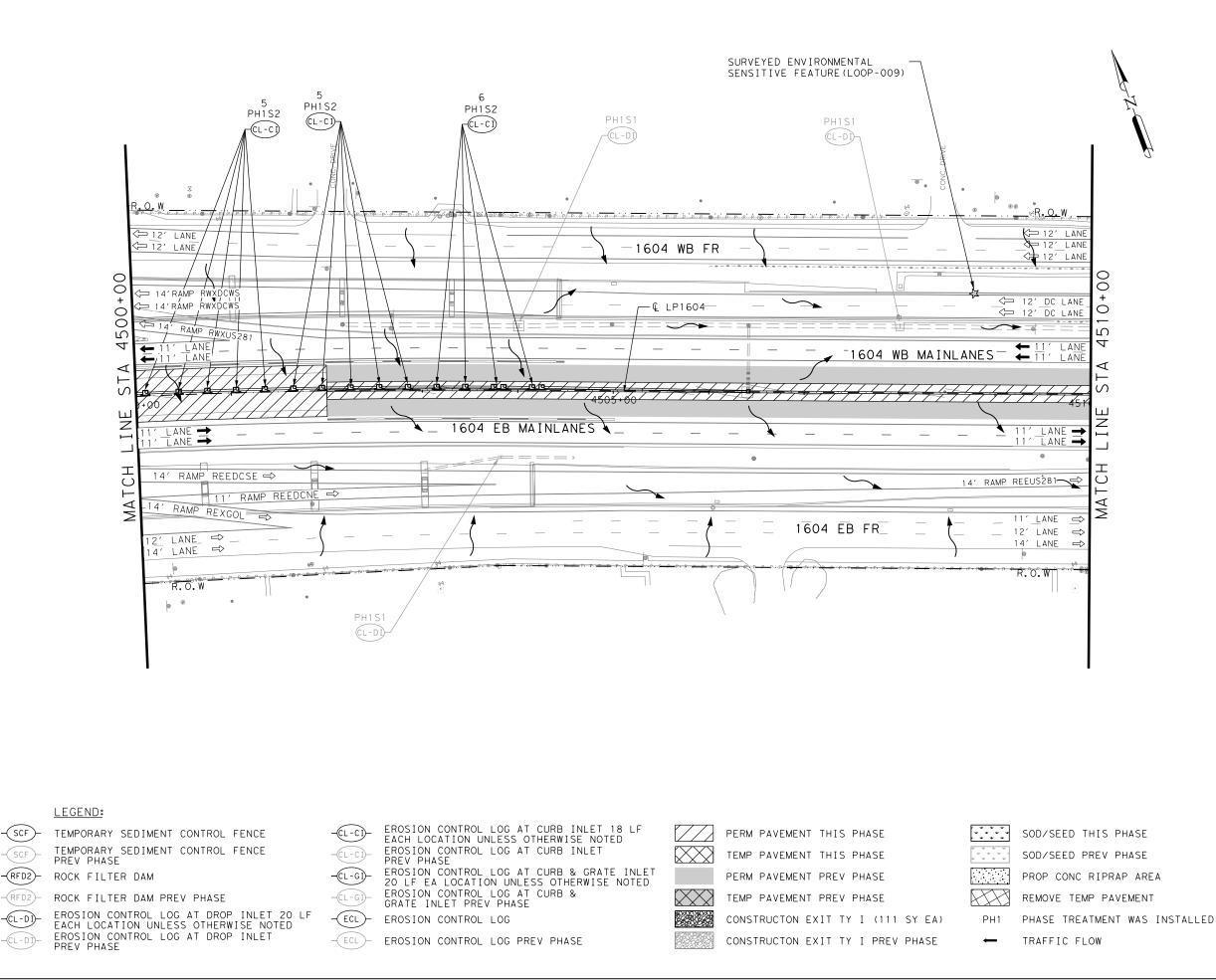


QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0	
162	BLOCK SODDING	SY	0	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	0.0	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	144	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	144	
* F	OR CONTRACTOR'S INFORMATIO	N OI	NLY	

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
- REFER TO SW3P STANDARD SHEETS FOR 3. DETAILS.
- 4.
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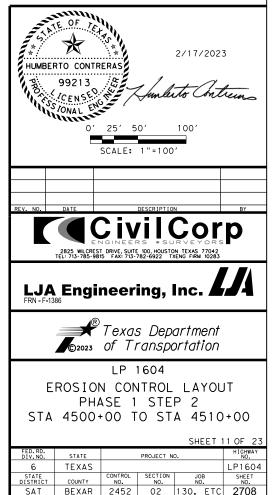
PHASE TREATMENT WAS INSTALLED

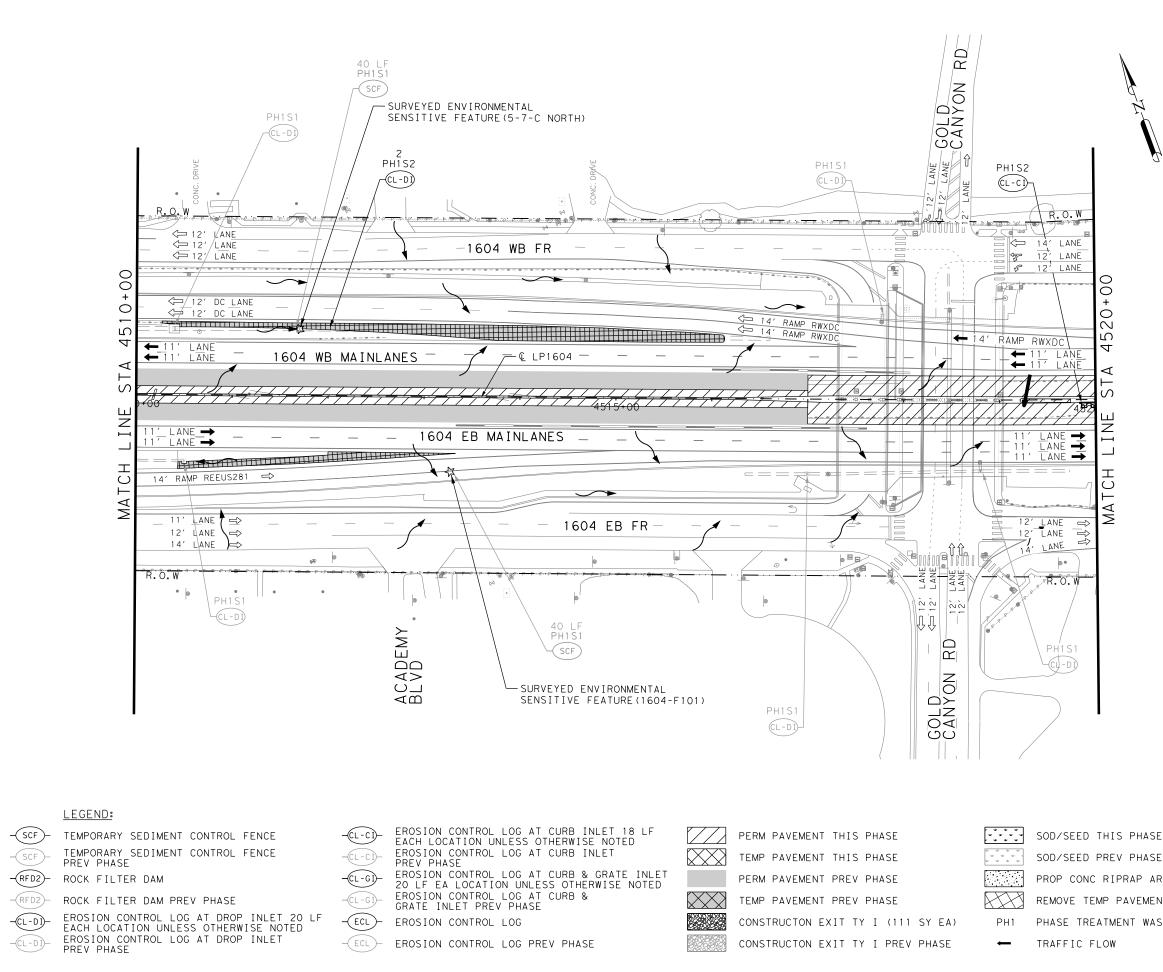


	QUANTITY SUMMARY CSJ 0072-08-130, ETC		
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	288
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	288

NOTES:

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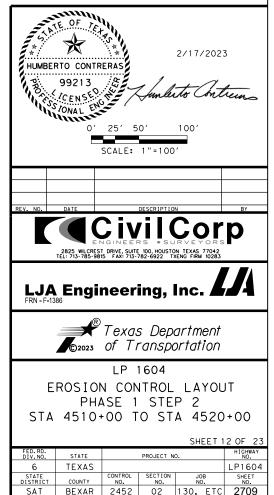


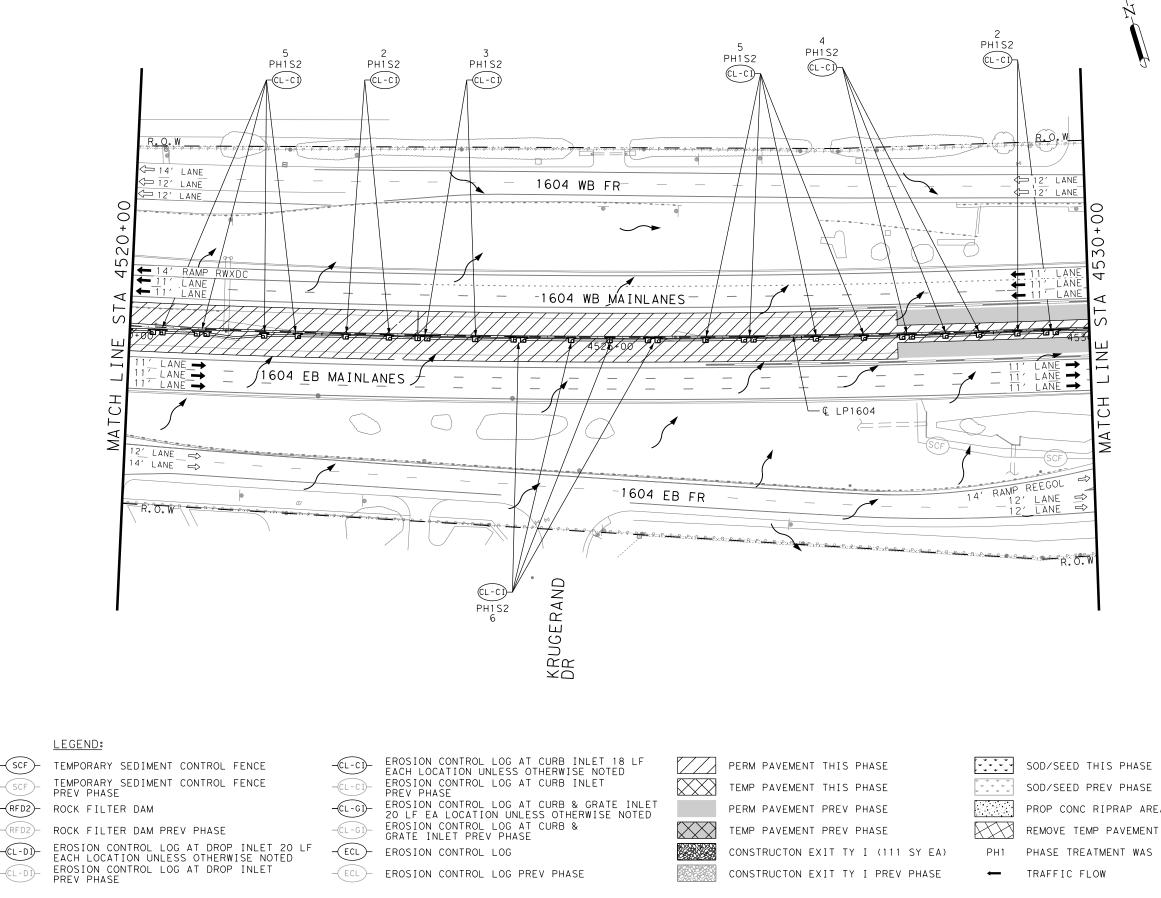


	QUANTITY SUMMARY CSJ 0072-08-130, ET	C	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	58
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	58

NOTES:

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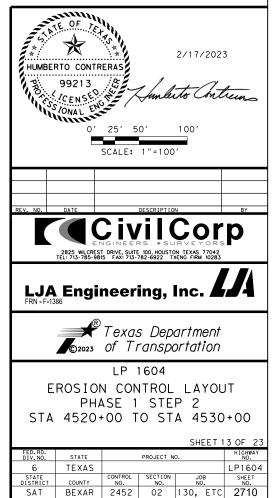




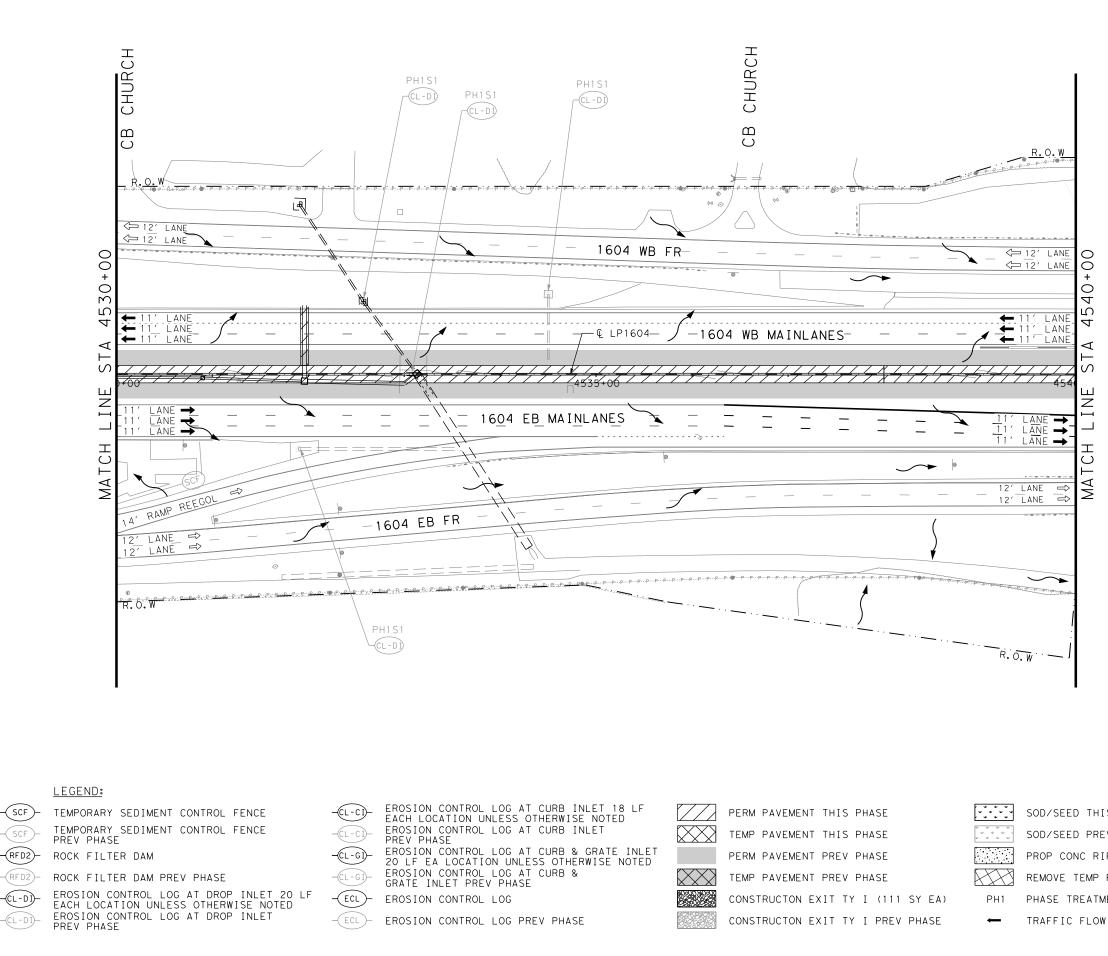
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	486
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	486

NOTES:

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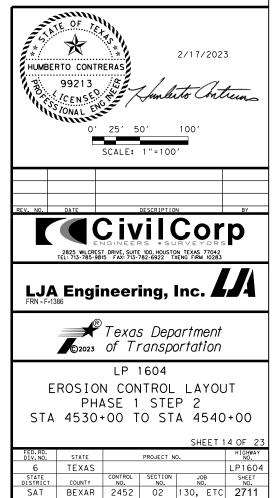
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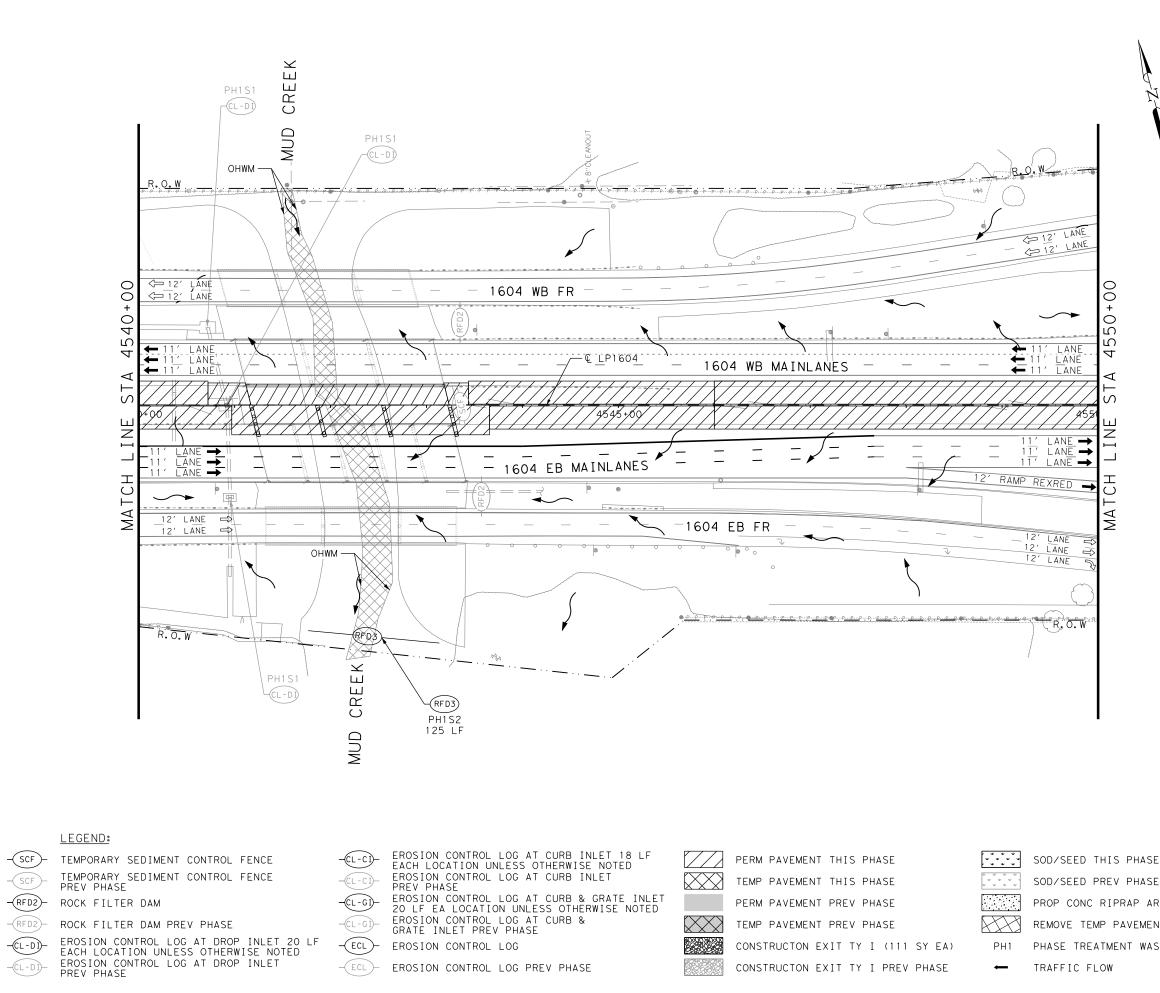


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

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SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED

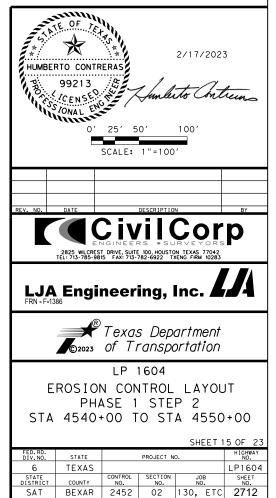




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	125
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	125
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

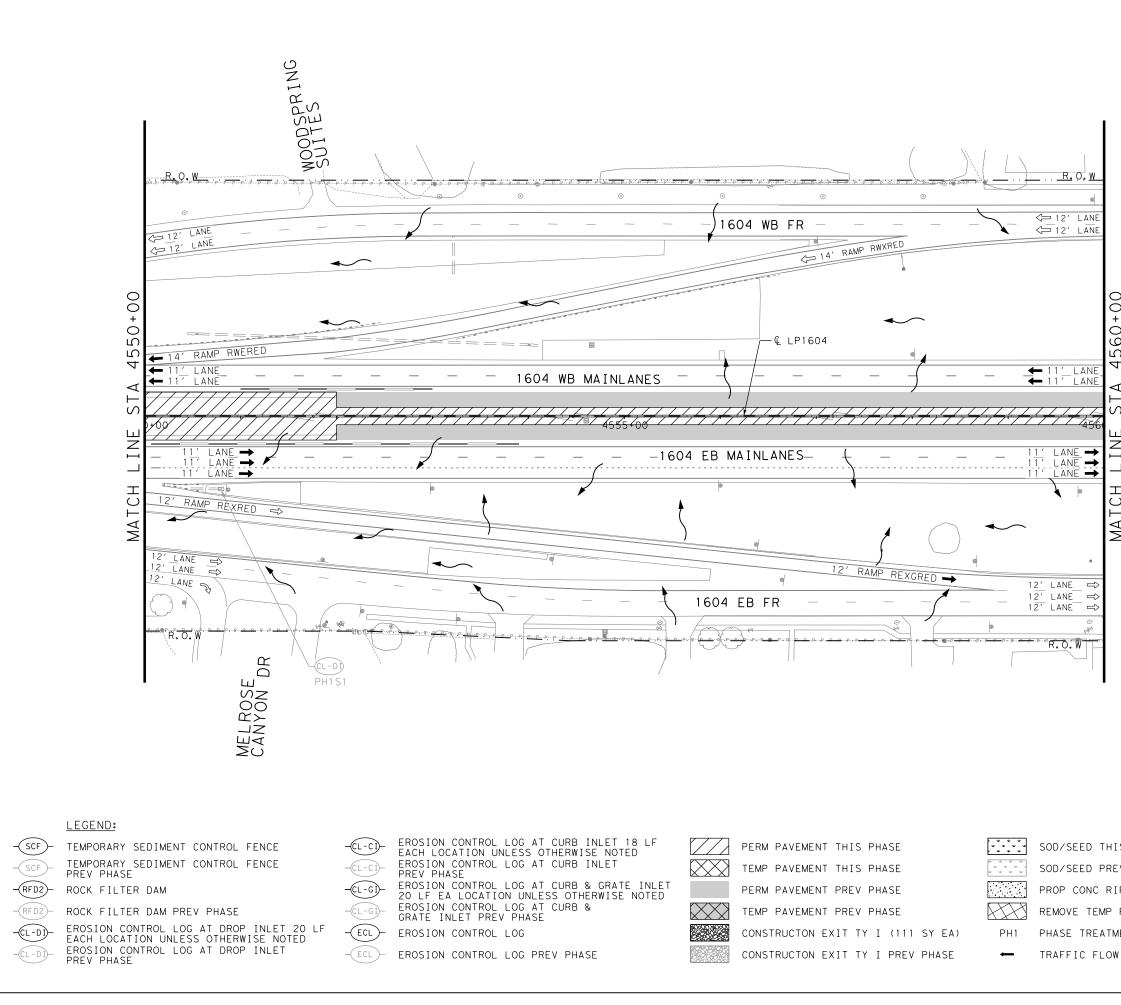
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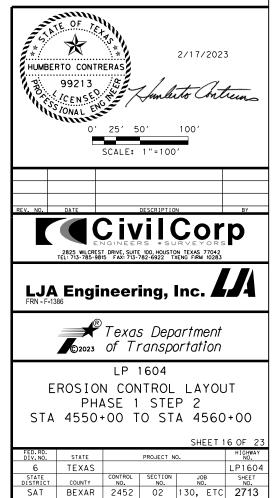




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

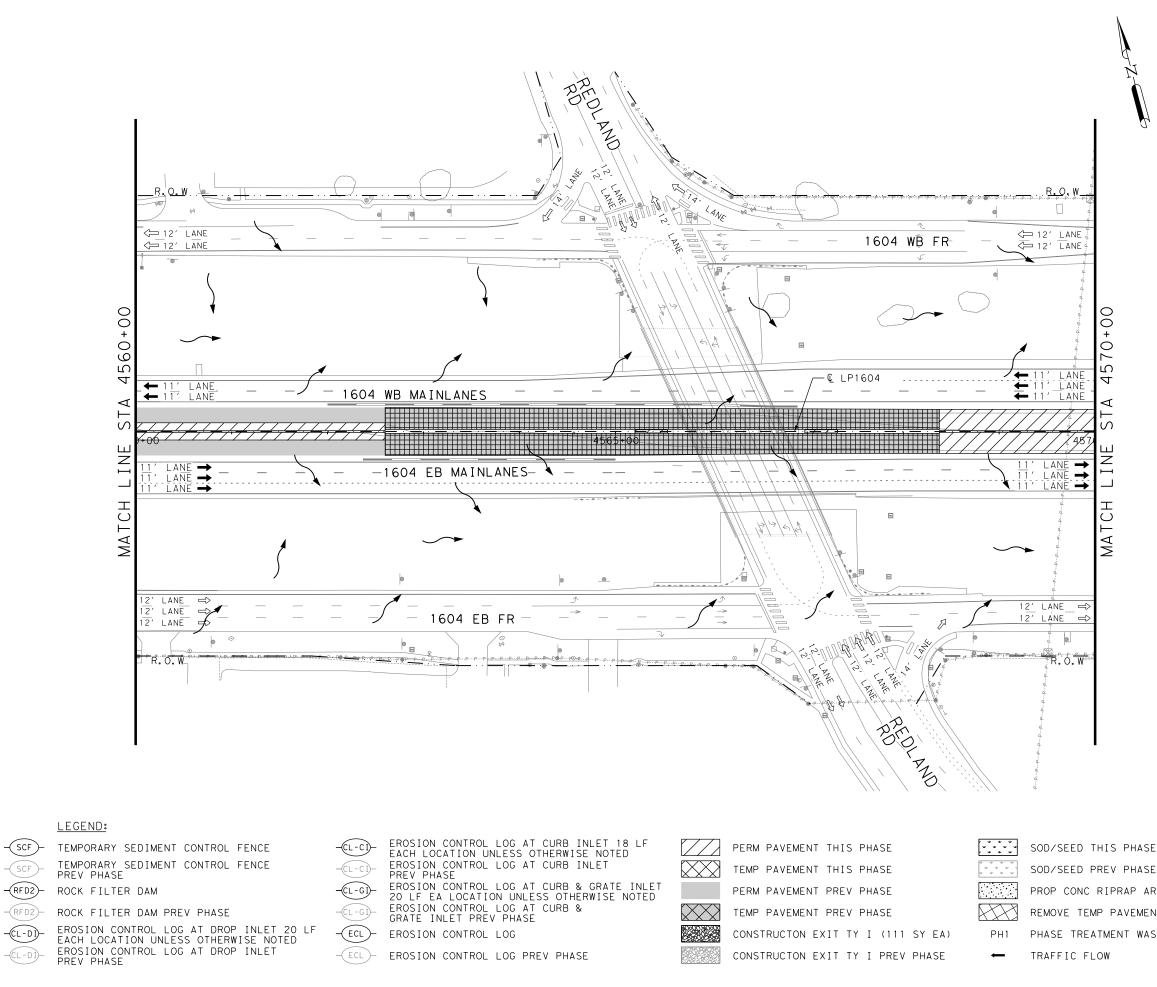
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SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED

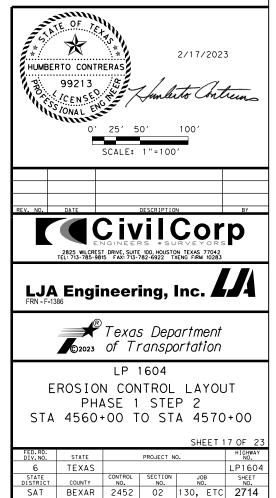




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

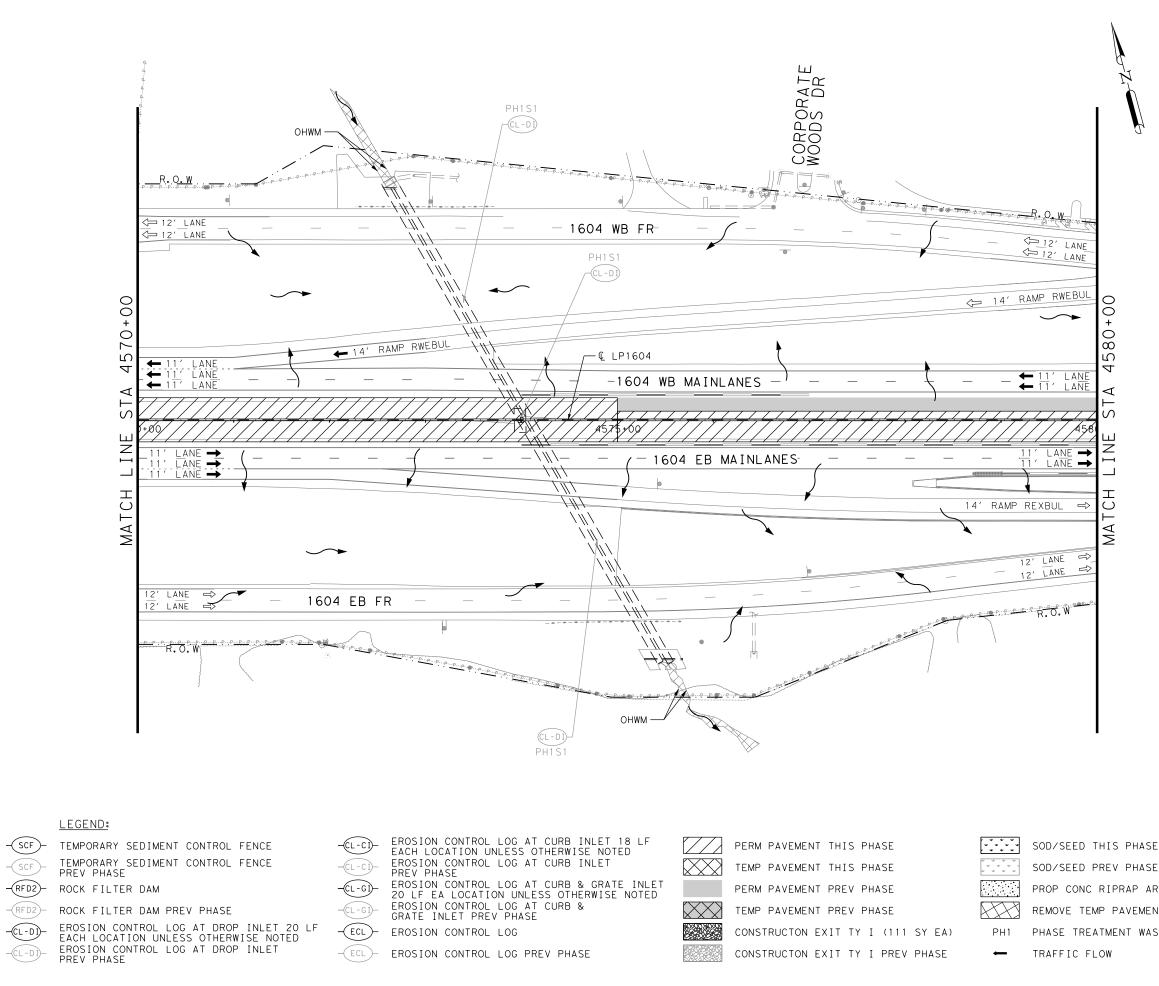
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SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED

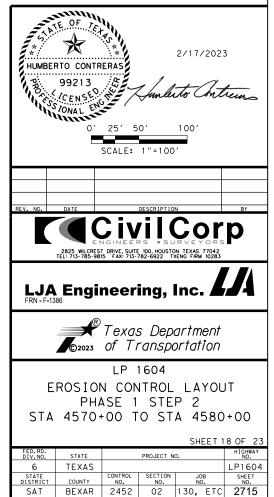




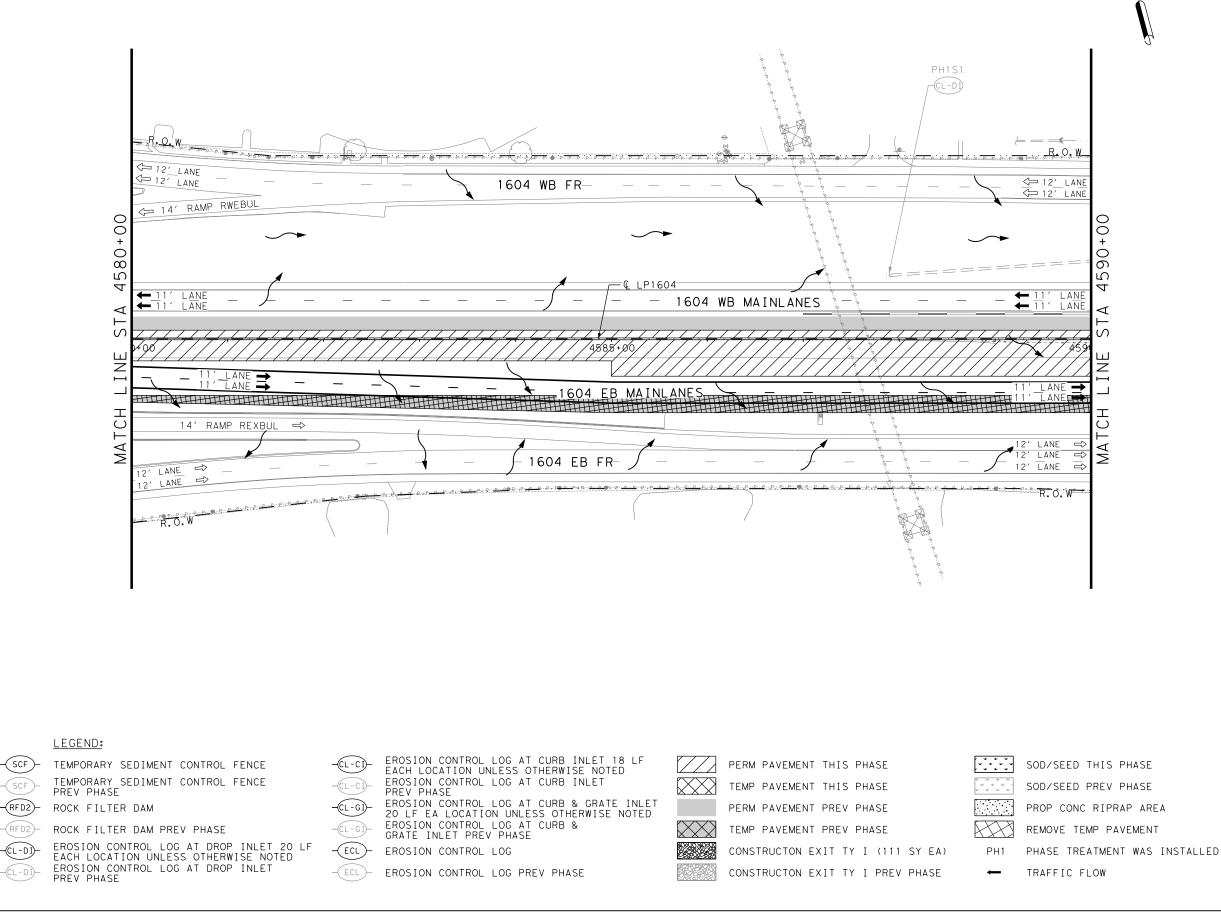
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
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- CONSTRUCTION EXITS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. ALL CONSTRUCTION EXITS WILL BE MOVED AND RESET DURING EACH CONTRUCTION 8. PHASE.



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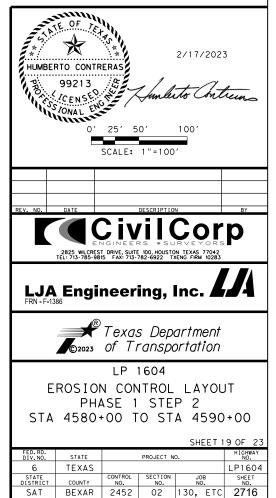




ITEM	QUANTITY SUMMARY CSJ 0072-08-130,E1 DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

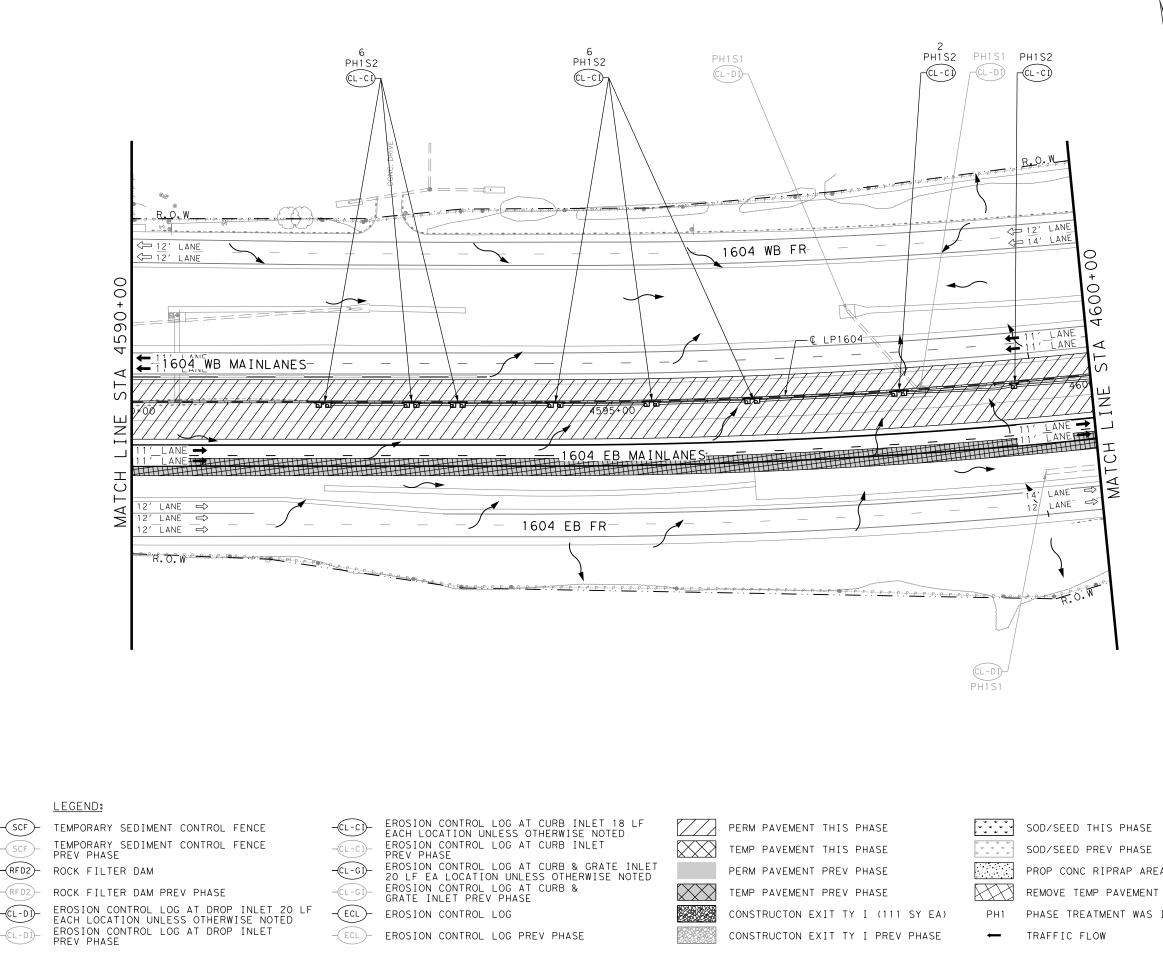
NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
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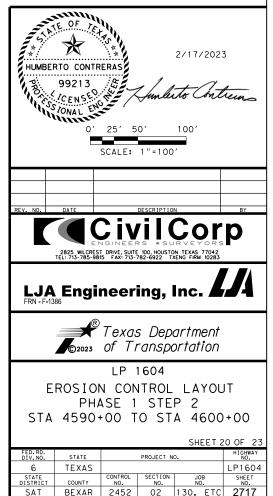




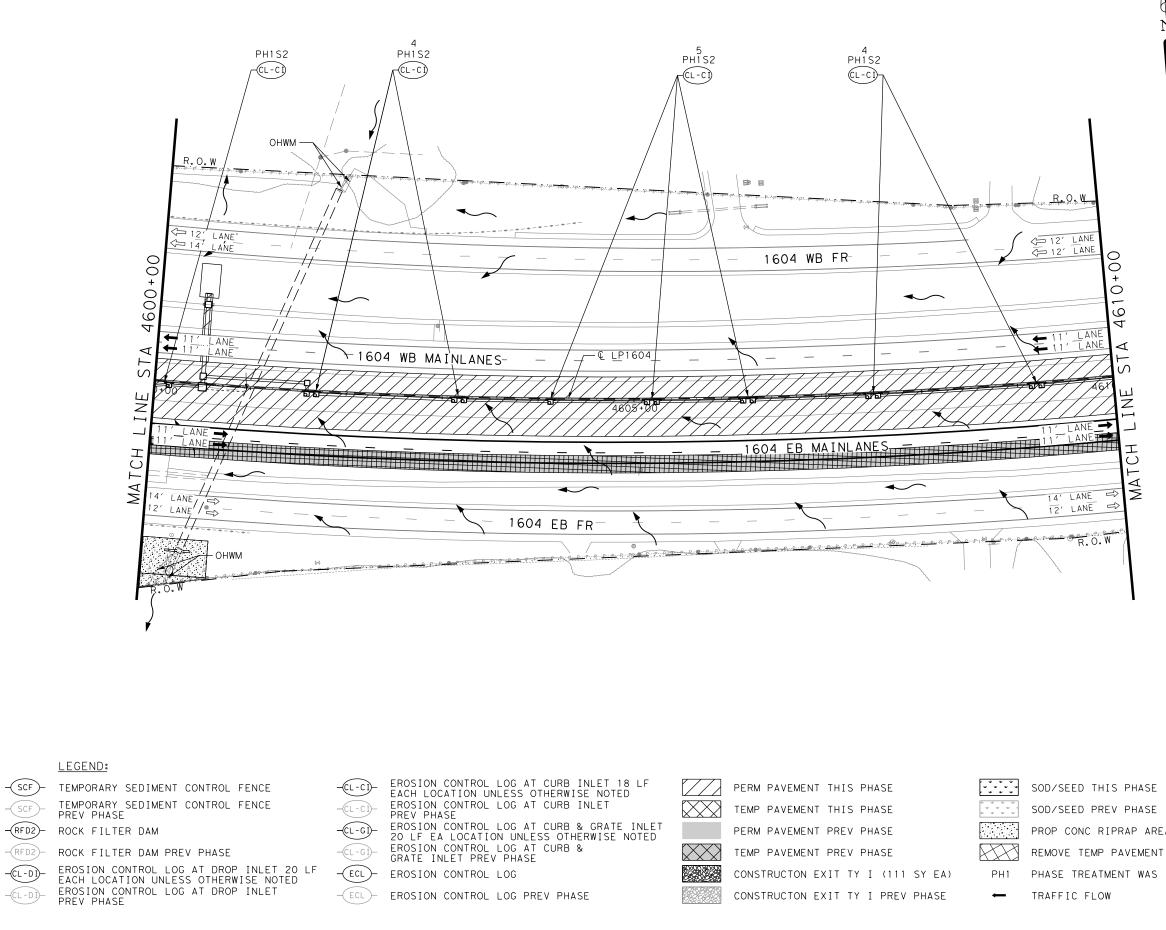
QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0	
162	BLOCK SODDING	SY	0	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	0.0	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	270	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	270	
* F	OR CONTRACTOR'S INFORMATIO		JI Y	

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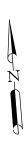
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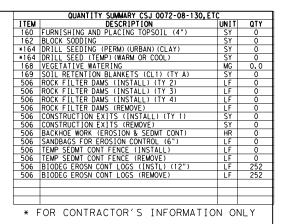
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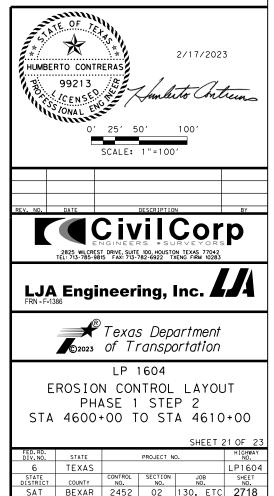
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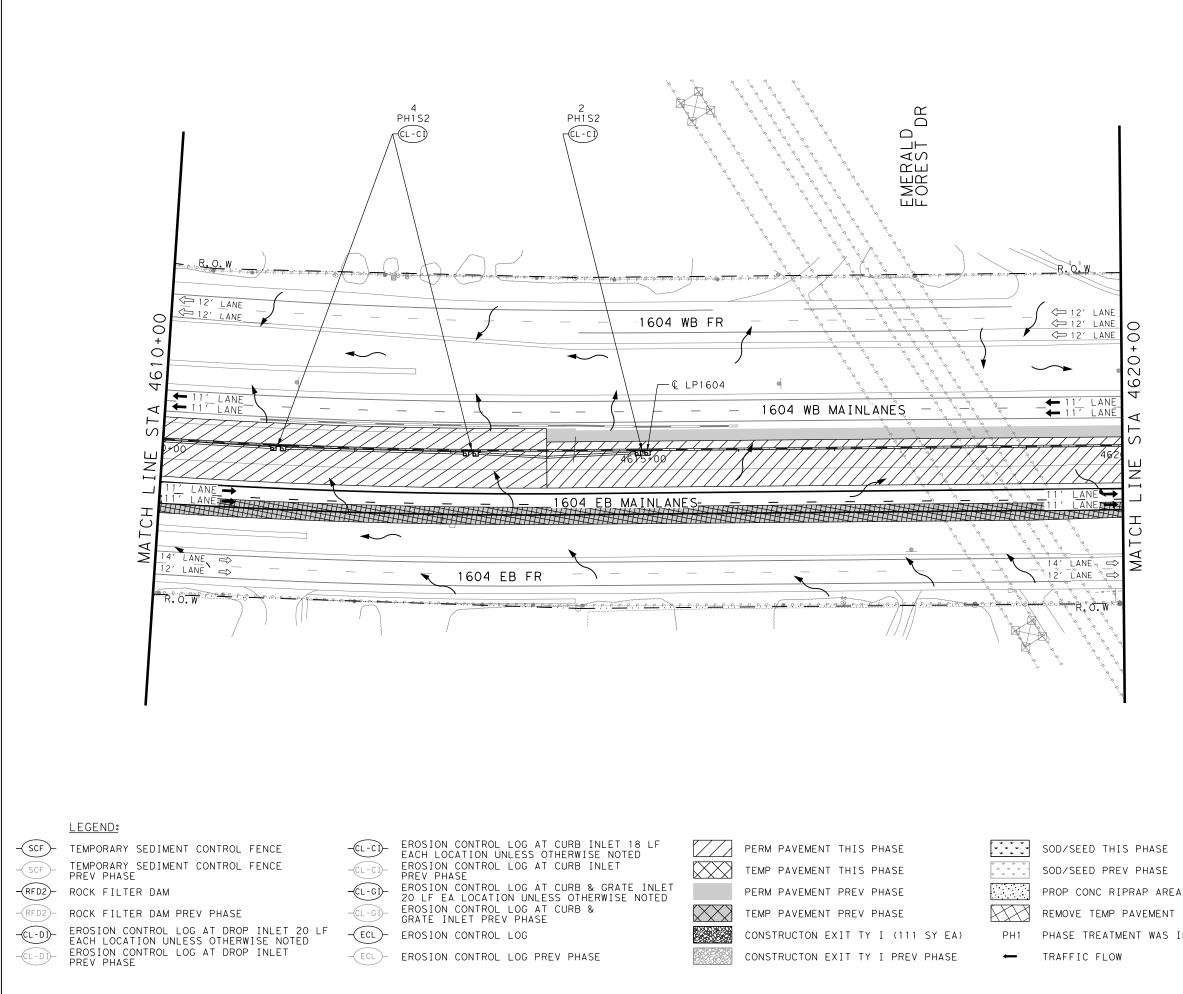
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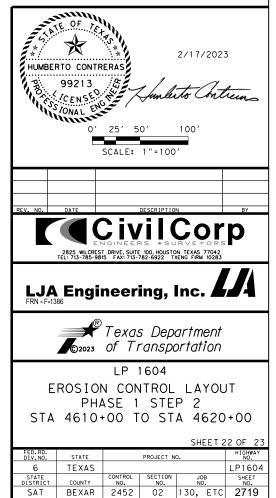
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	QUANTITY SUMMARY CSJ 0072-08-130, ET	2	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	108
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	108
* F	FOR CONTRACTOR'S INFORMATIO	N OI	NLY

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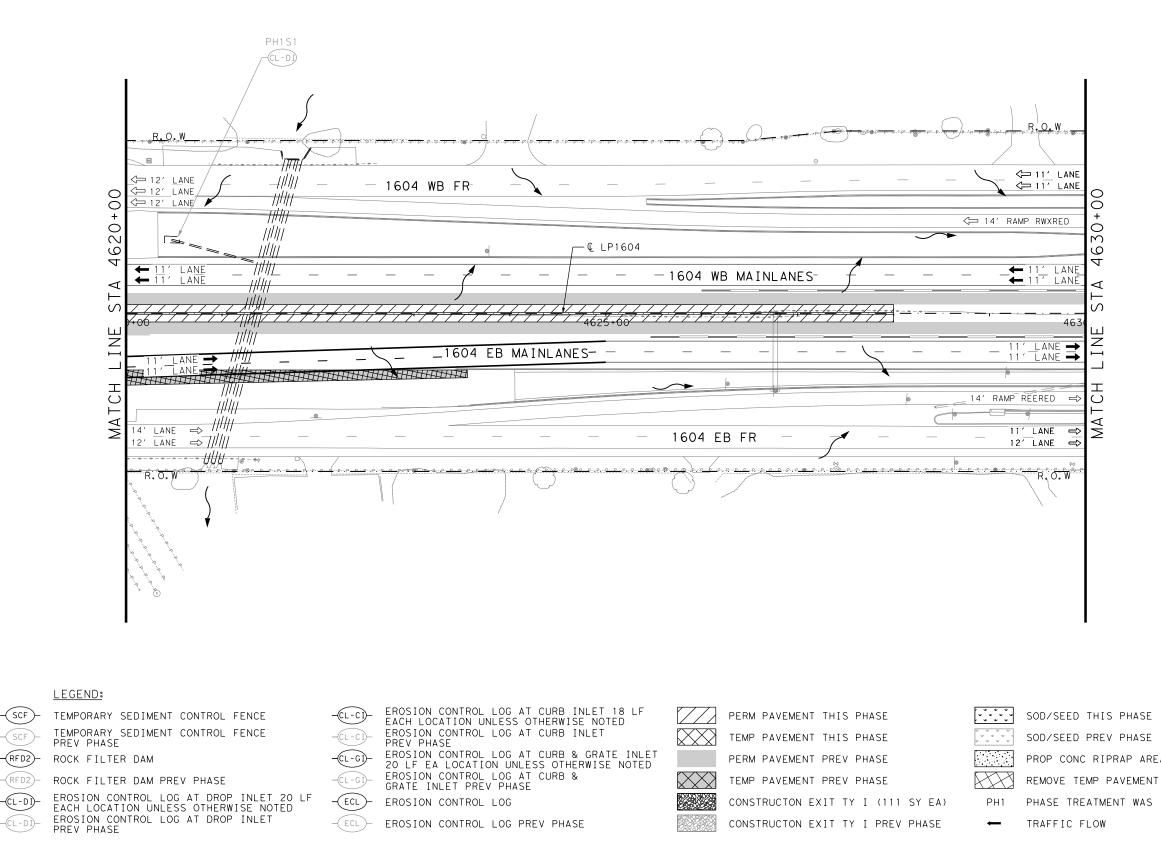
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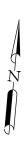
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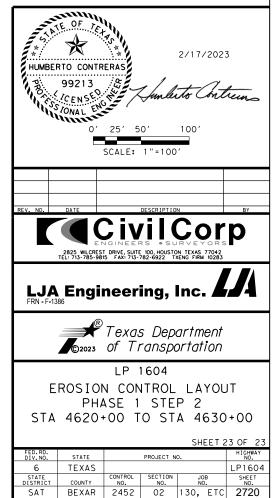
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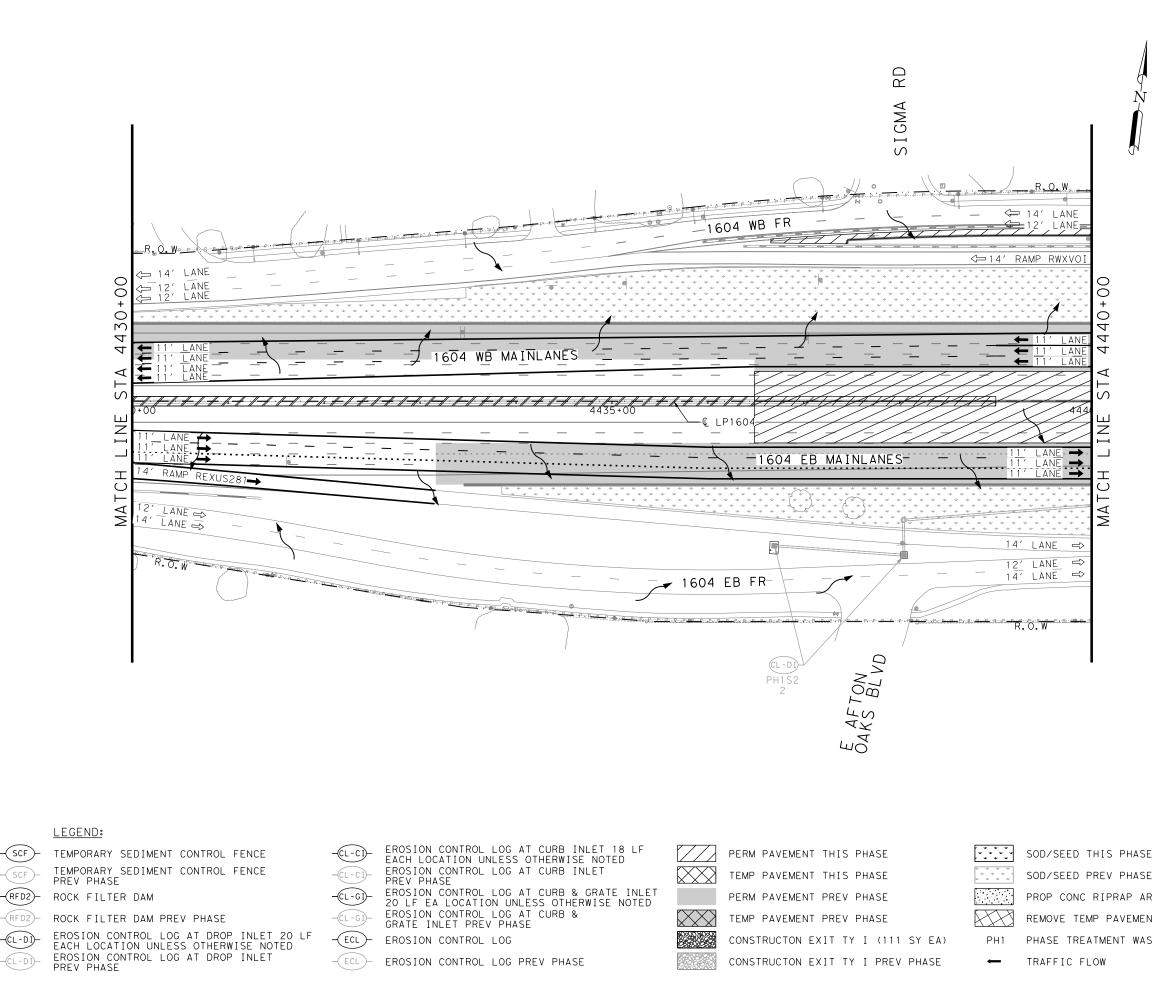


QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0	
162	BLOCK SODDING	SY	0	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	0.0	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0	
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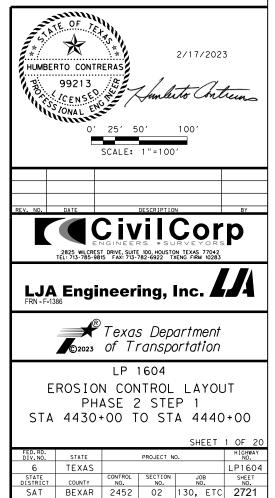
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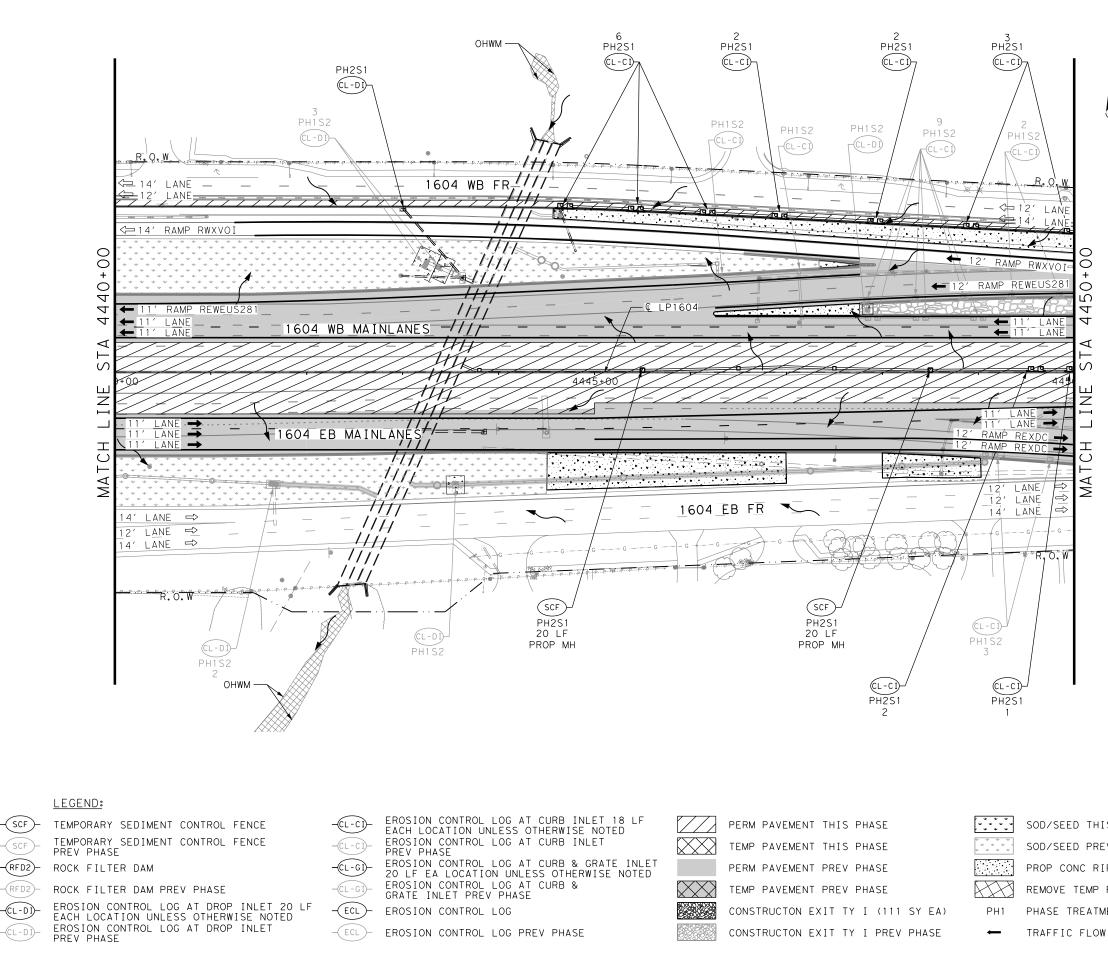


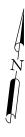
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

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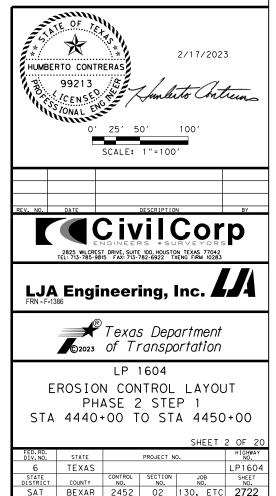




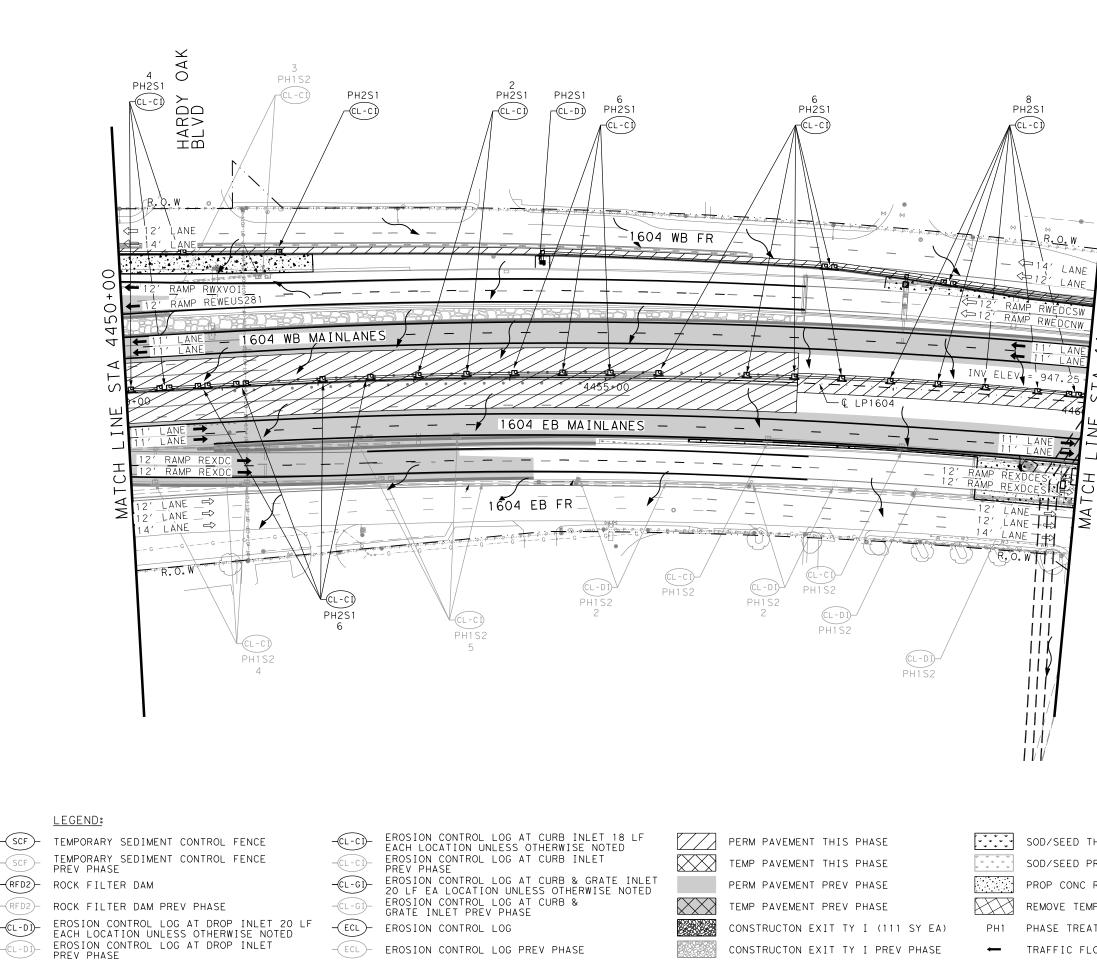
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	40
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	40
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	308
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	308

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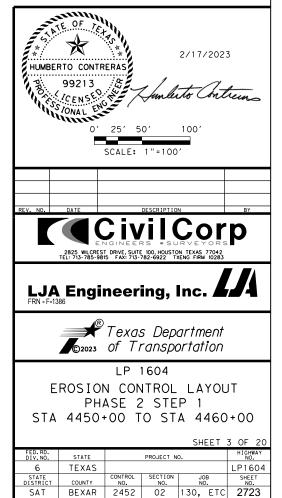
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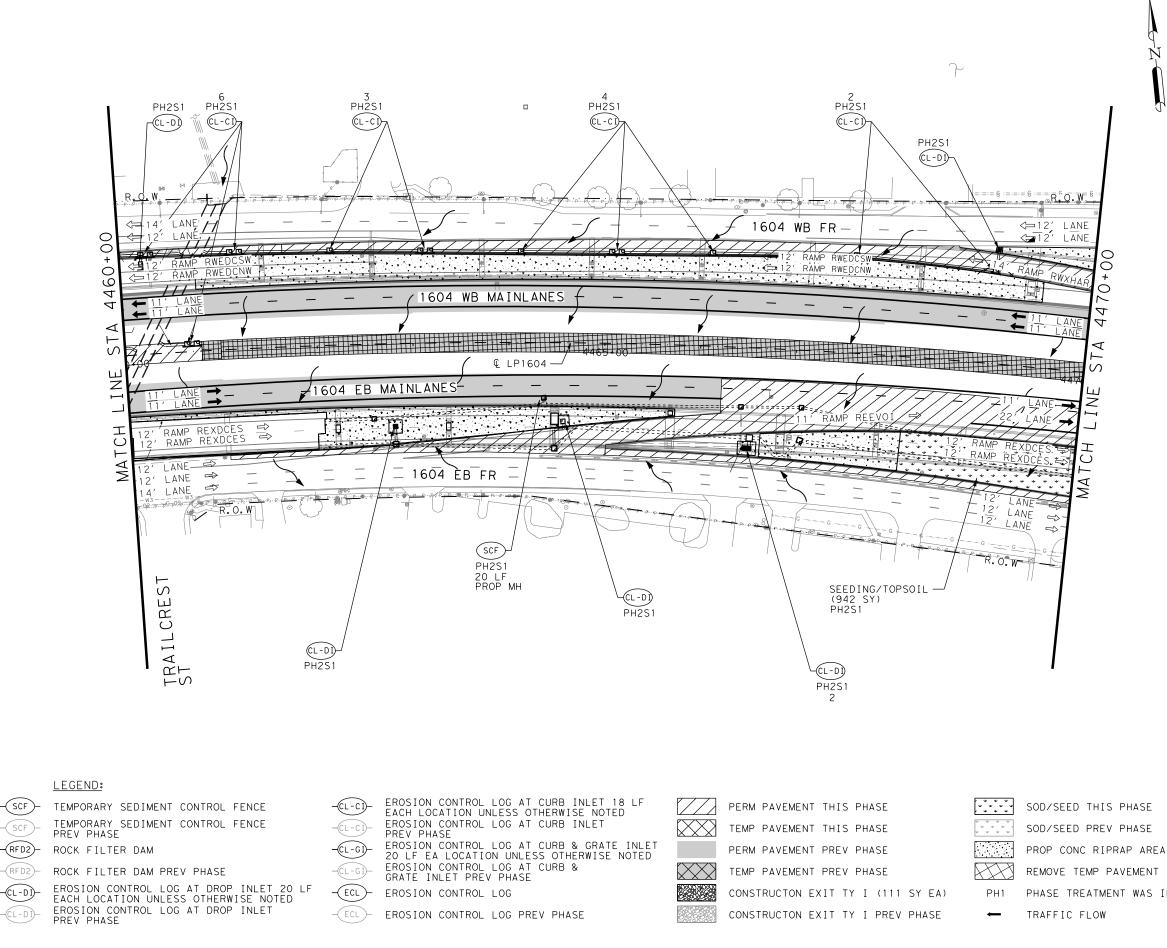
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	614
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	614

* FOR CONTRACTOR'S INFORMATION ONLY

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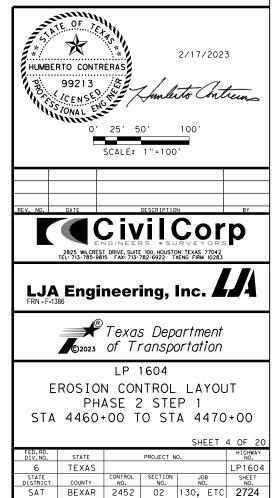




	QUANTITY SUMMARY CSJ 0072-08-130.ETC		
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	942
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	14.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	942
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	420
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	420
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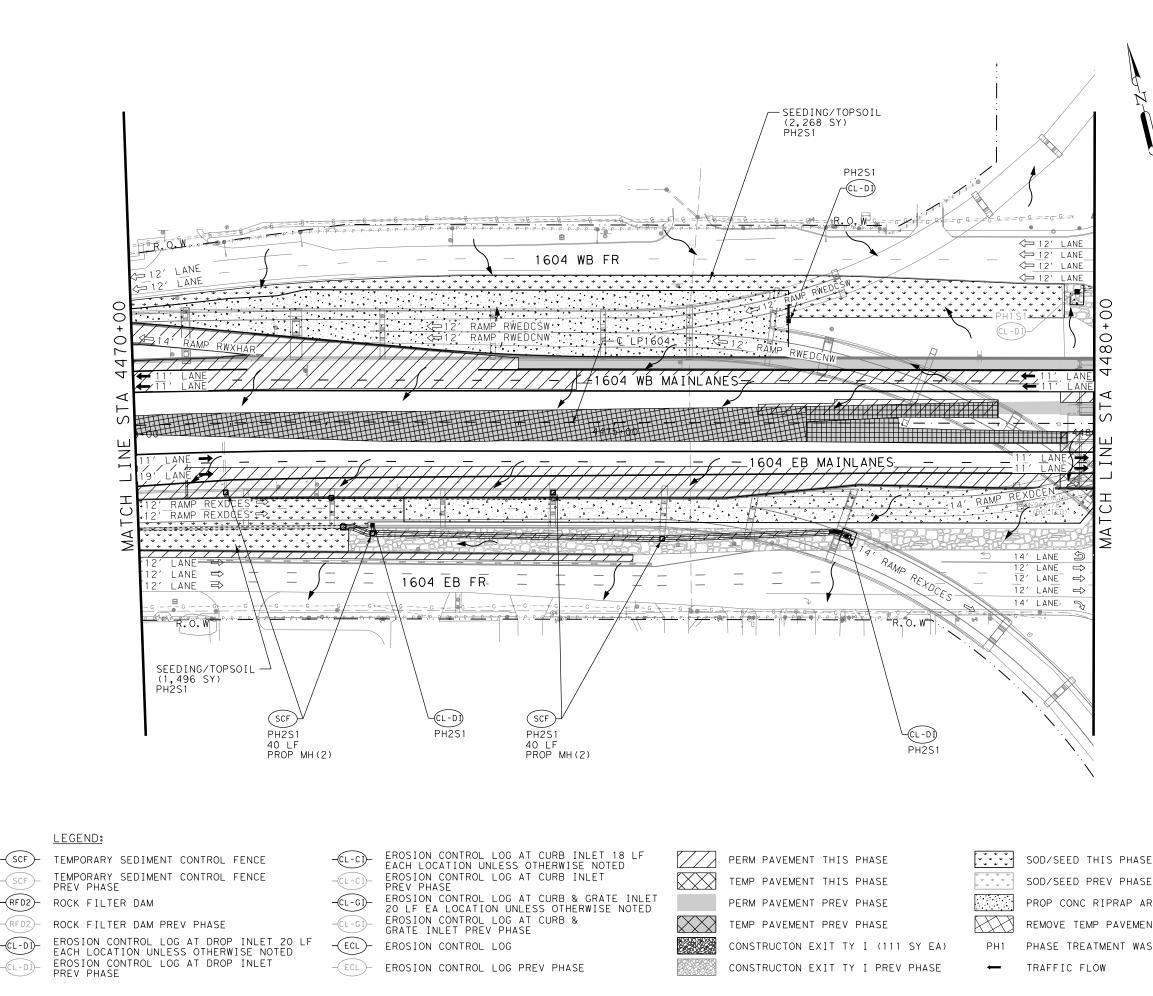
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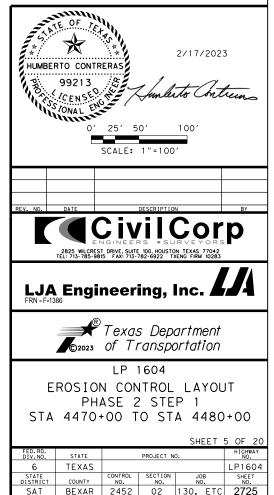
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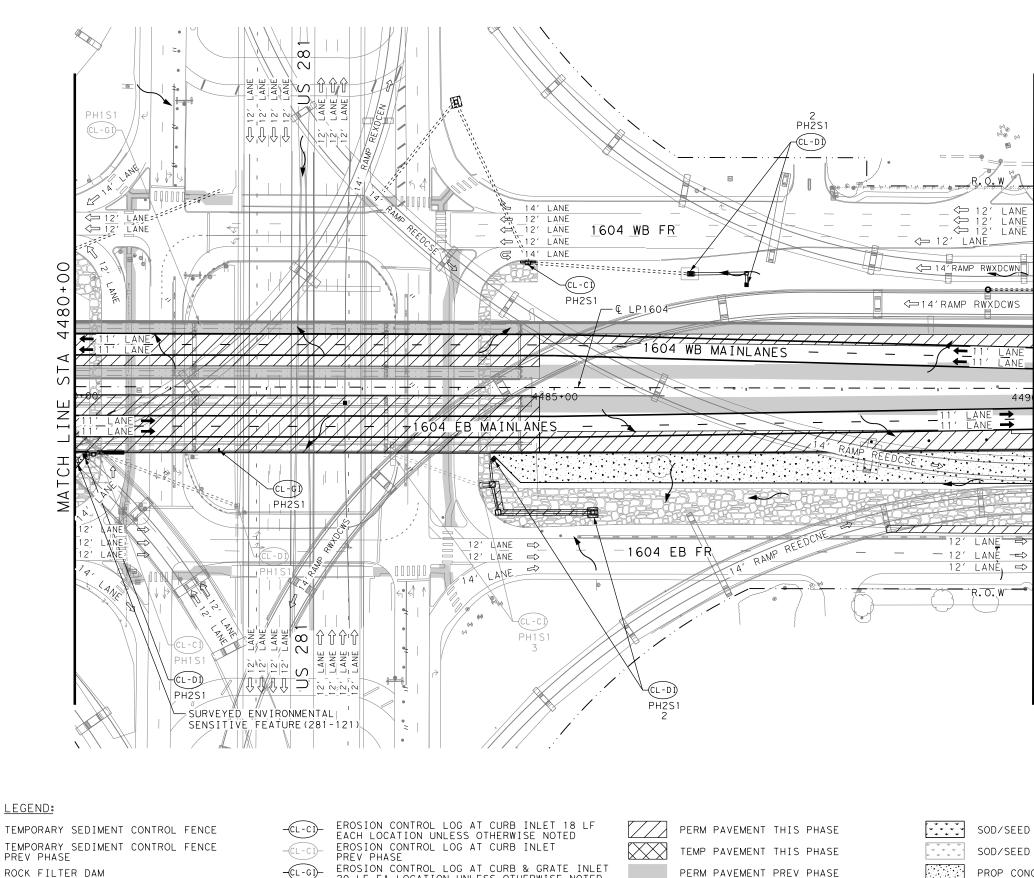
	QUANTITY SUMMARY CSJ 0072-08-130,ETC		
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	3764
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	58.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	3764
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	80
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	80
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	60
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	60

* FOR CONTRACTOR'S INFORMATION ONLY

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TEMP PAVEMENT PREV PHASE

EROSION CONTROL LOG AT CURB &

EROSION CONTROL LOG PREV PHASE

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EROSION CONTROL LOG

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ROCK FILTER DAM PREV PHASE

PREV PHASE

EROSION CONTROL LOG AT DROP INLET 20 LF

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EROSION CONTROL LOG AT DROP INLET

CONSTRUCTON EXIT TY I (111 SY EA) PH1 CONSTRUCTON EXIT TY I PREV PHASE

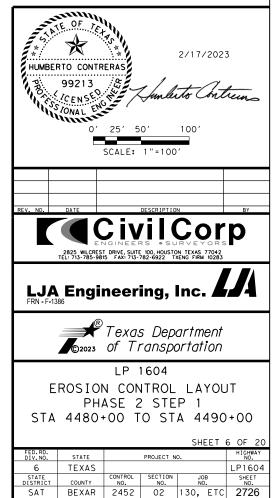
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	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	136
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	136
*	FOR CONTRACTOR'S INFORMATIO	N OI	NL Y

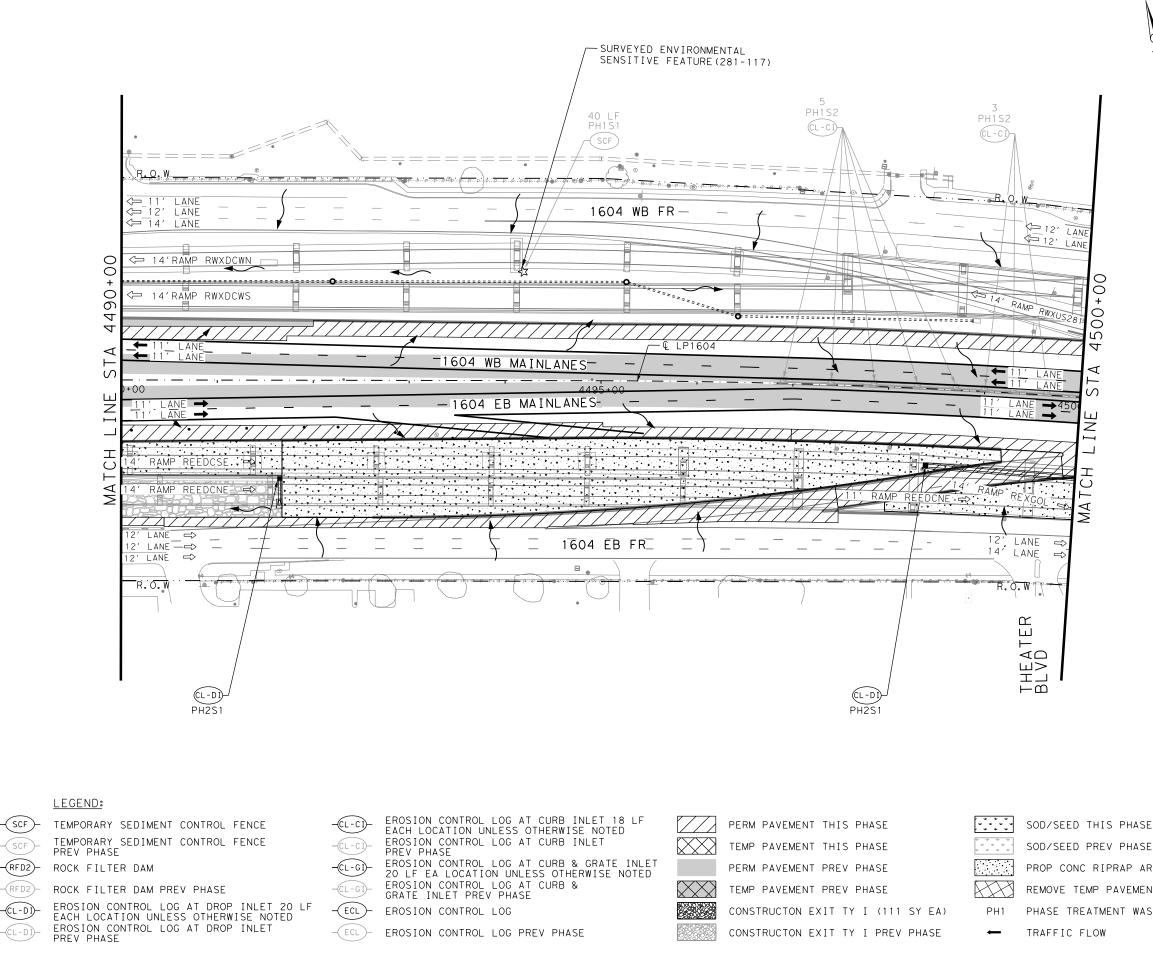
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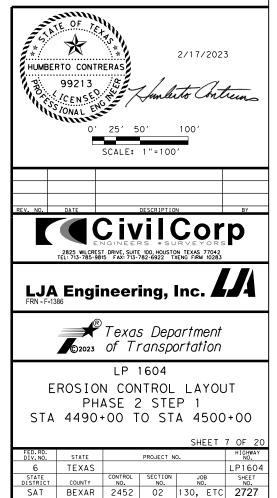
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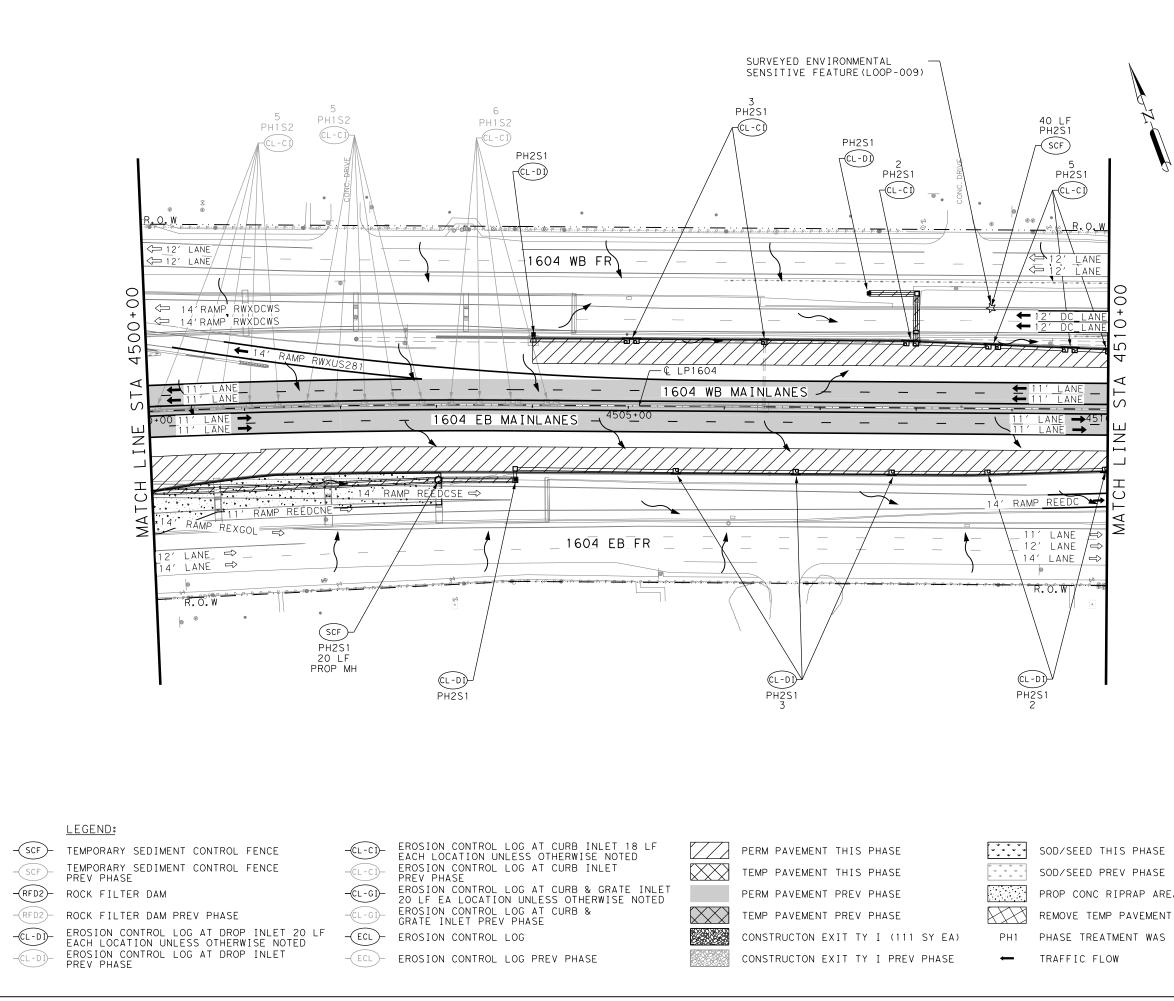


	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	144
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	144
* F	FOR CONTRACTOR'S INFORMATIO	N OI	NLY

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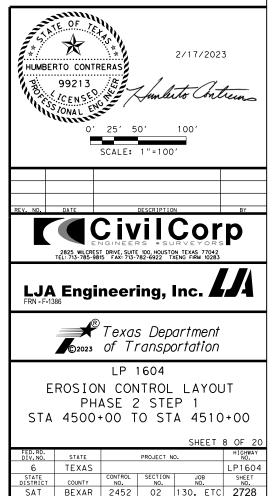




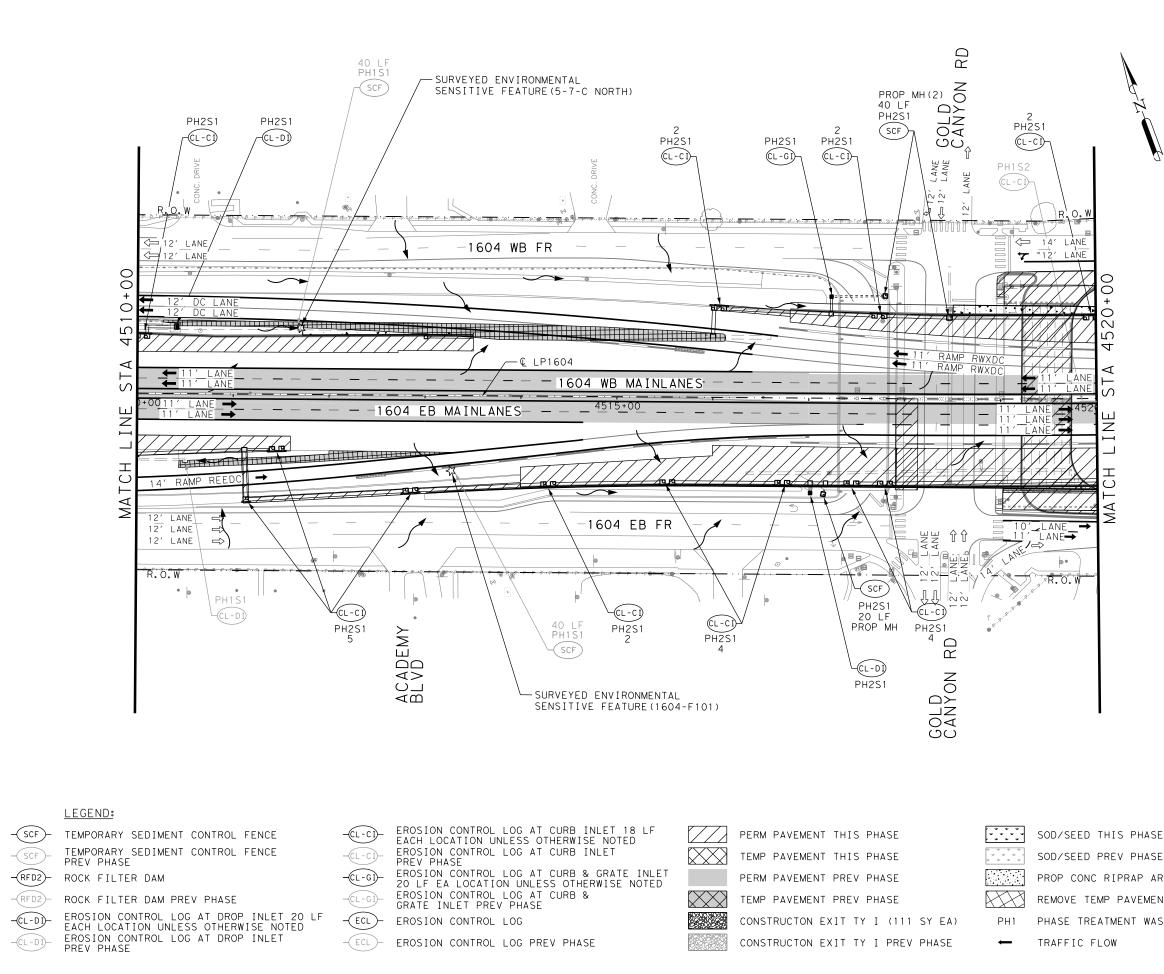
	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	60
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	60
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	340
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	340
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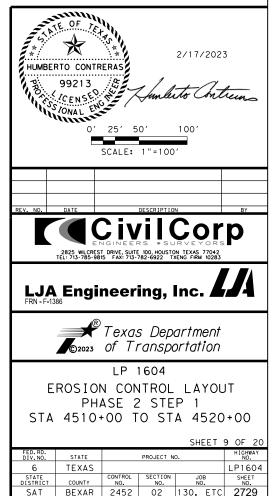


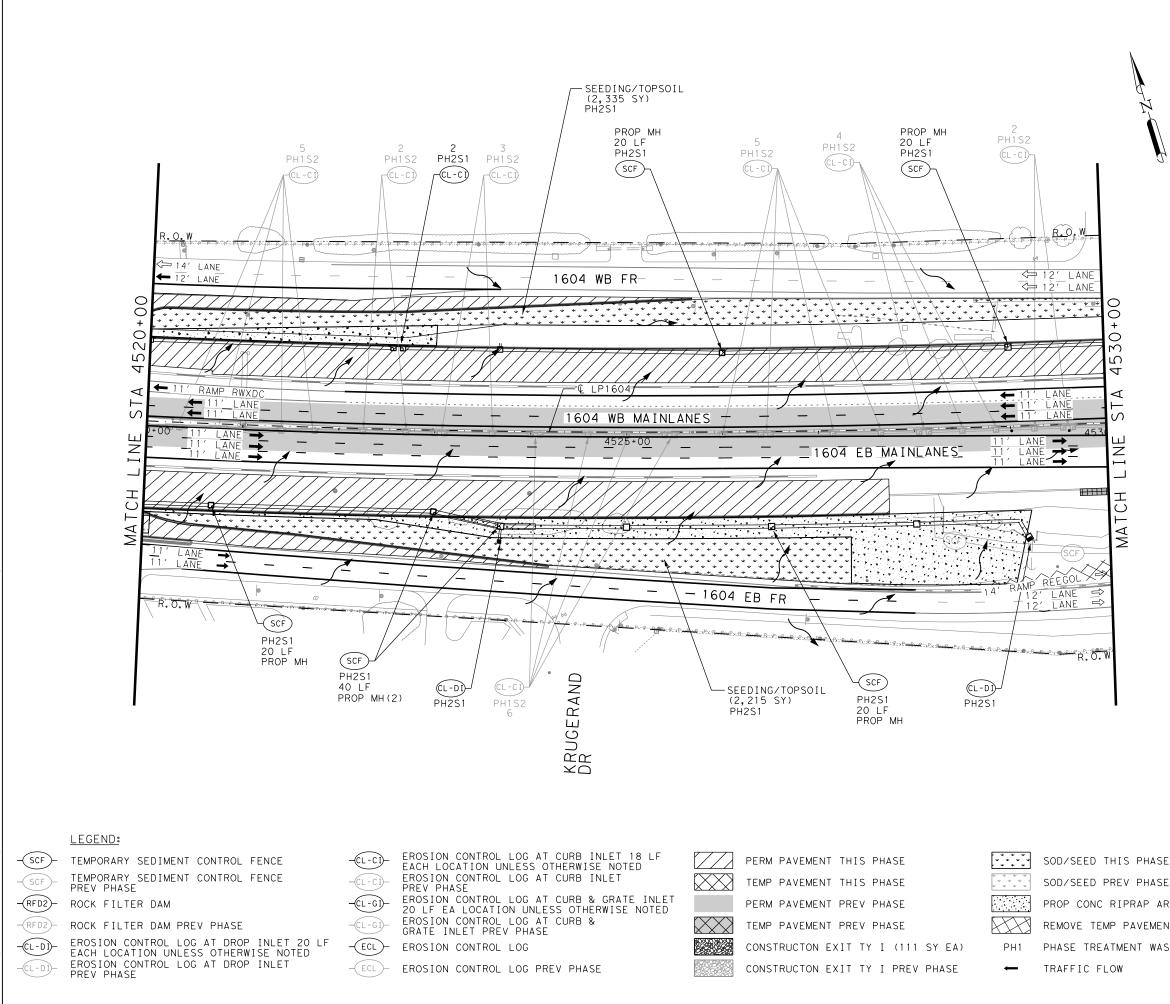


	QUANTITY SUMMARY CSJ 0072-08-130, ET	C	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	60
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	60
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	420
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	420

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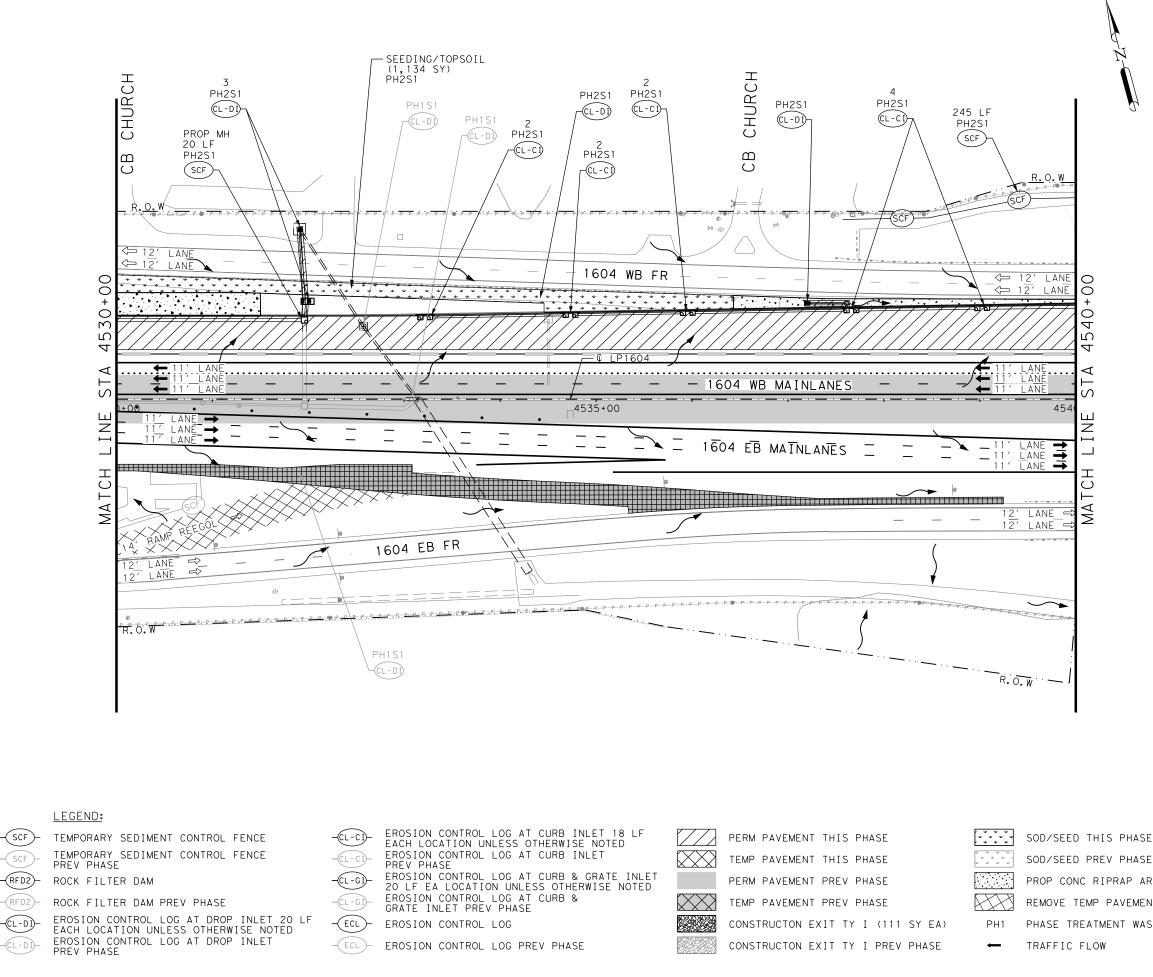
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	4550
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	4550
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	4550
168	VEGETATIVE WATERING	MG	71.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	4550
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	120
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	120
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	76
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	76

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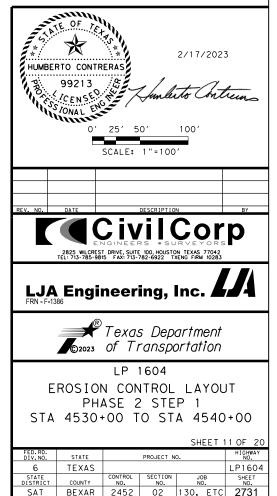


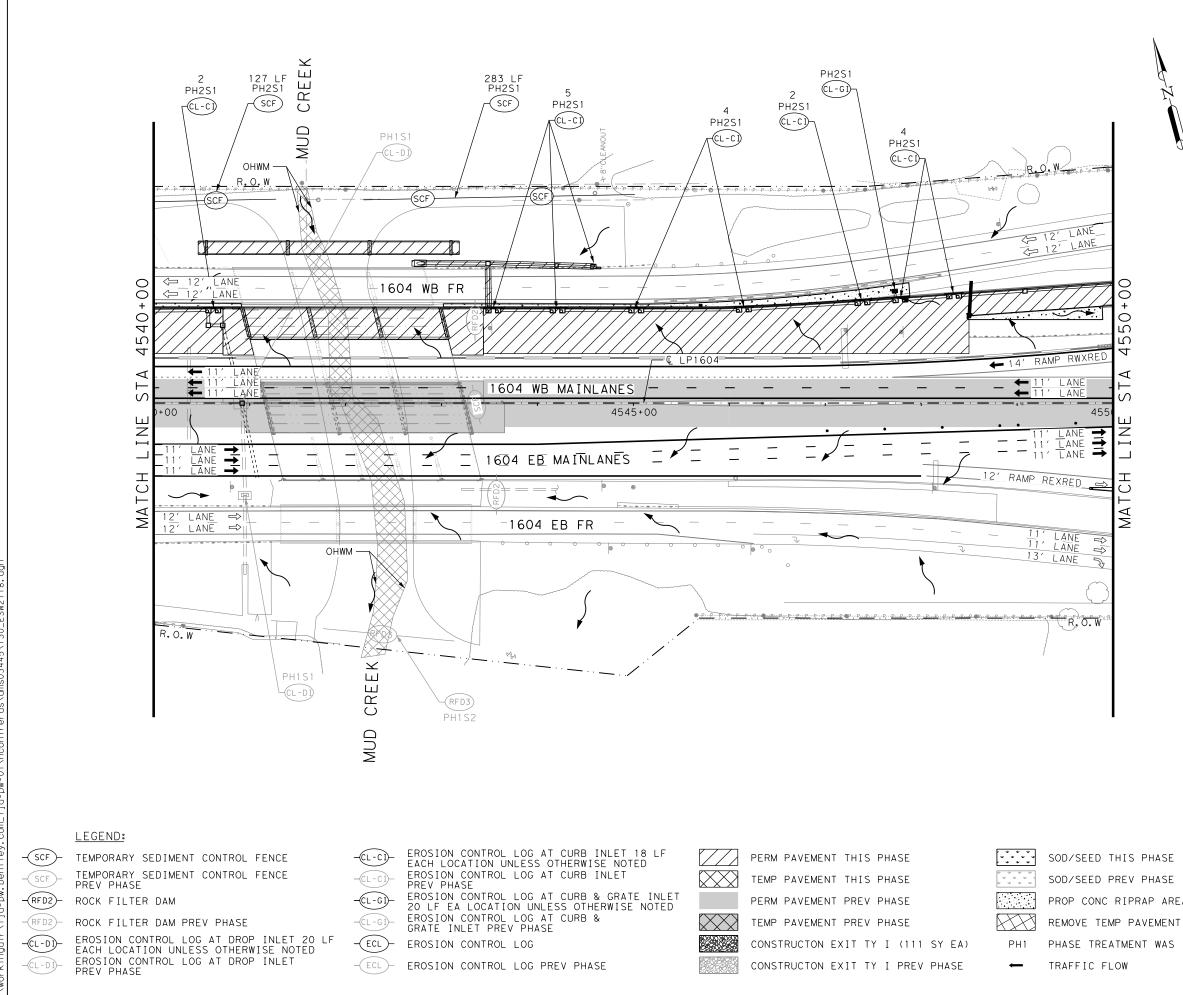


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1134
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	1134
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	1134
168	VEGETATIVE WATERING	MG	17.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1134
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	265
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	265
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	280
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	280

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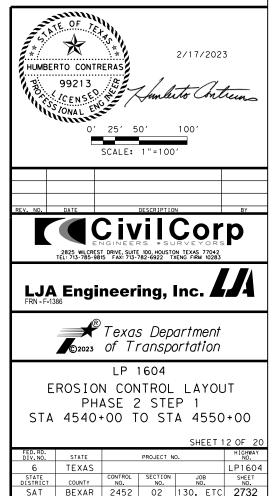




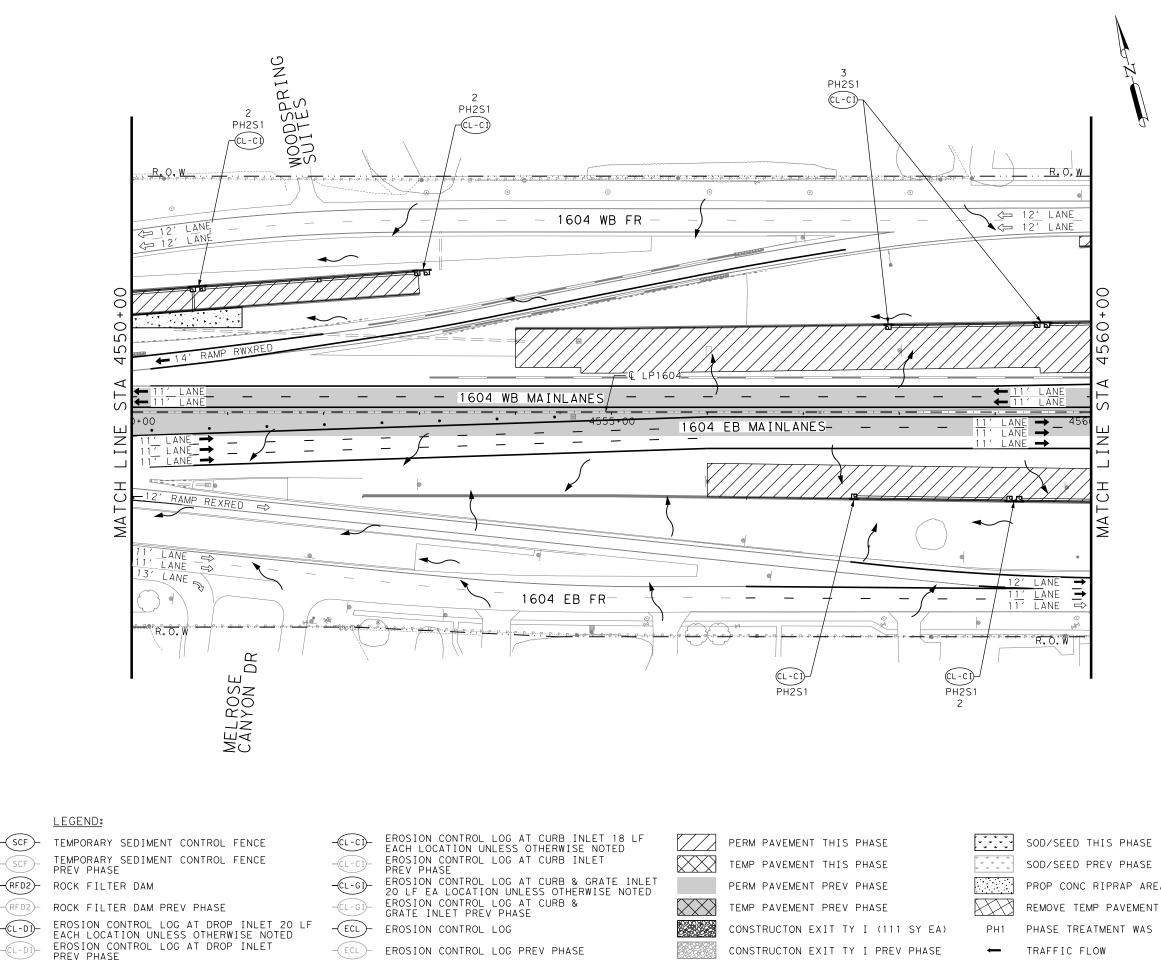


	QUANTITY SUMMARY CSJ 0072-08-130, ET		
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	410
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	410
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	326
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	326
* F	FOR CONTRACTOR'S INFORMATIO	N ON	VL Y

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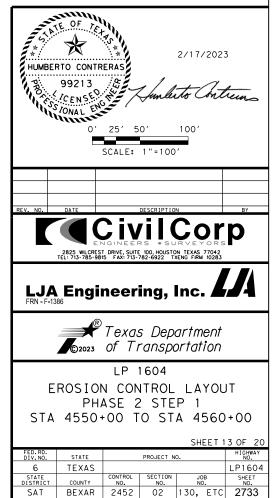
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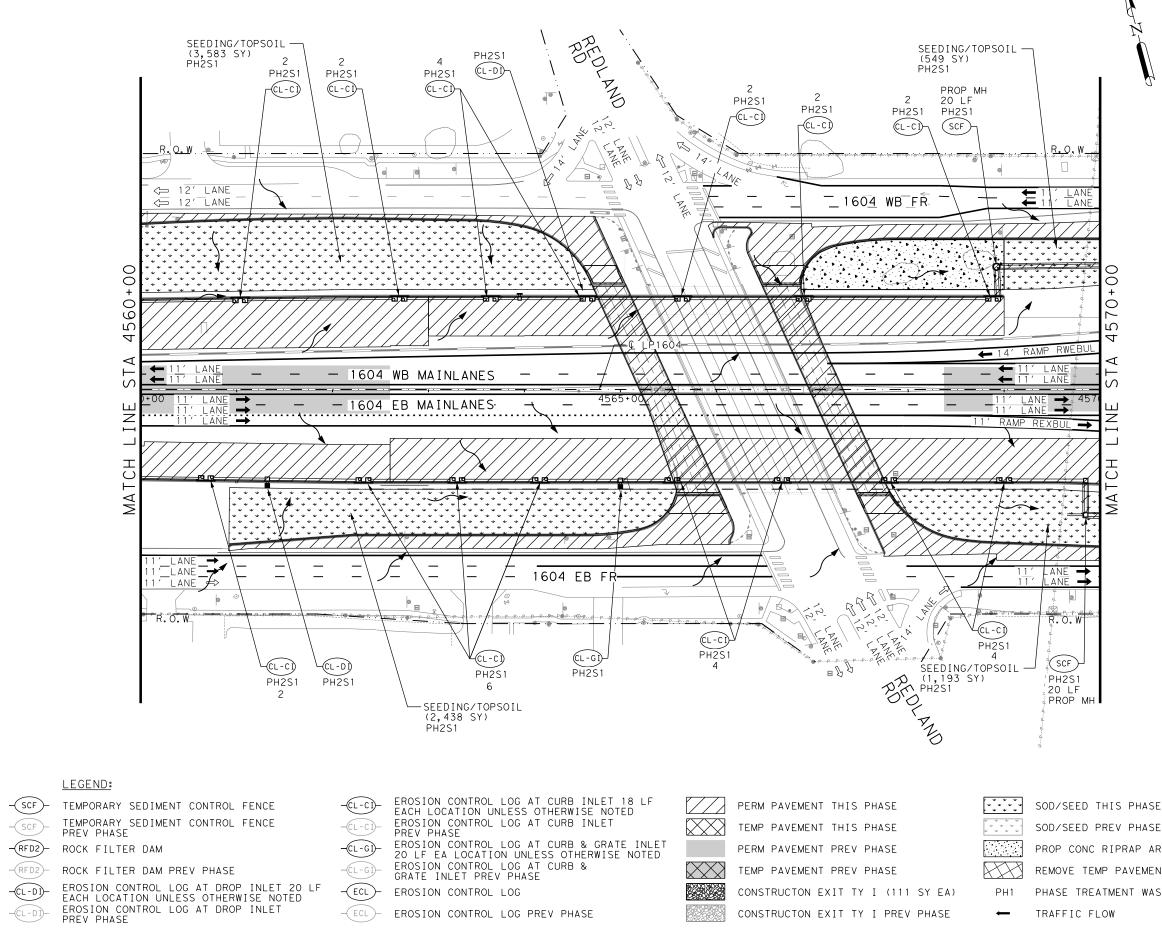


ITEM	QUANTITY SUMMARY CSJ 0072-08-130, E DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	180
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	180
* F	OR CONTRACTOR'S INFORMATIC		

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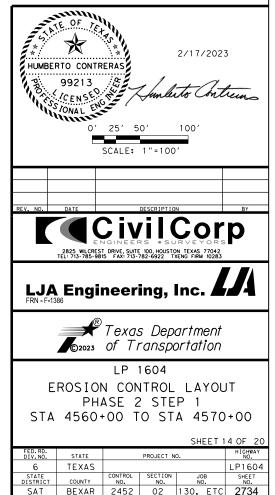




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	7763
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	7763
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	7763
168	VEGETATIVE WATERING	MG	121.1
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	7763
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	40
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	40
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	600
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	600

NOTES:

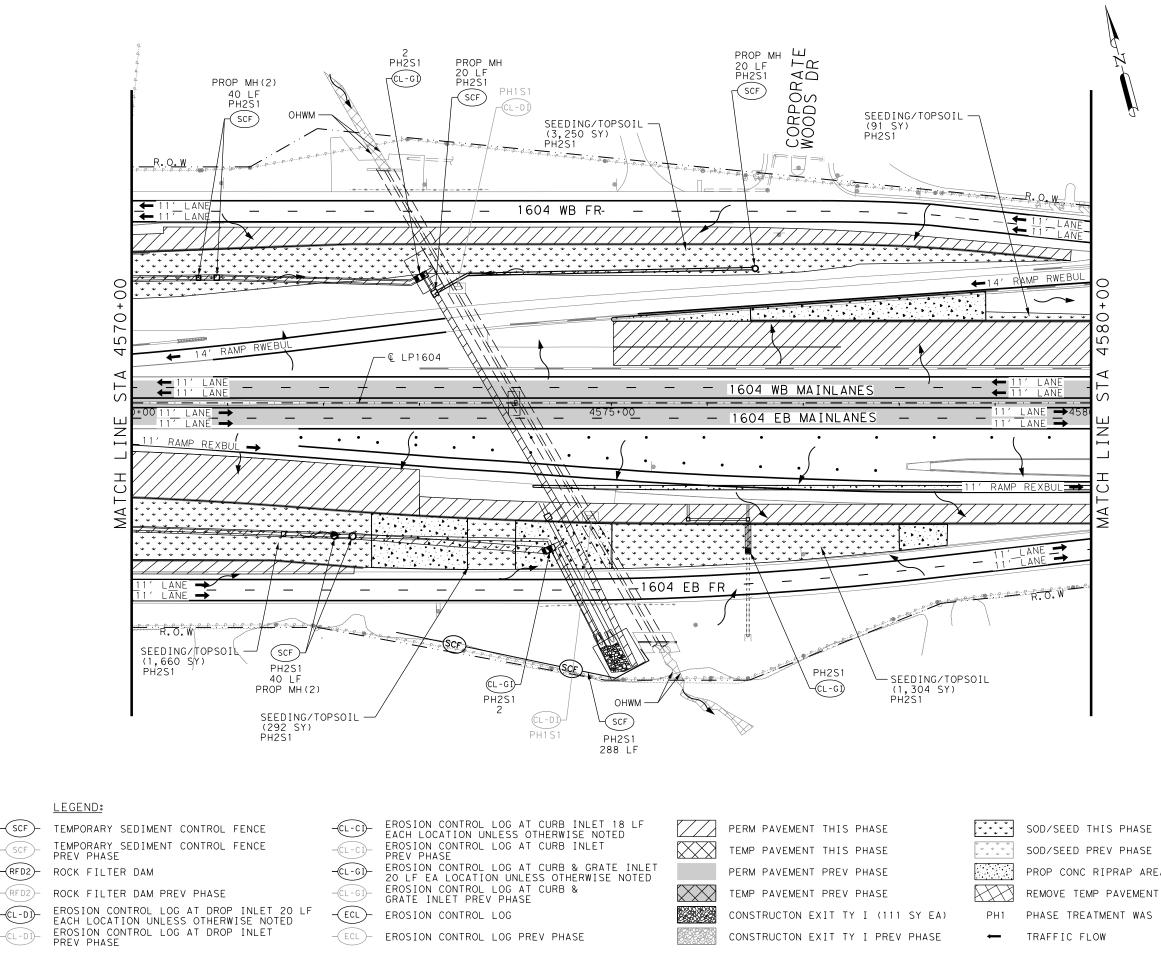
- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON 2. STANDARDS EC(1)-EC(3).
- REFER TO SW3P STANDARD SHEETS FOR 3. DETATI S.
- 4.
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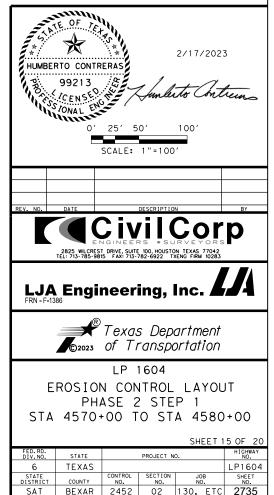




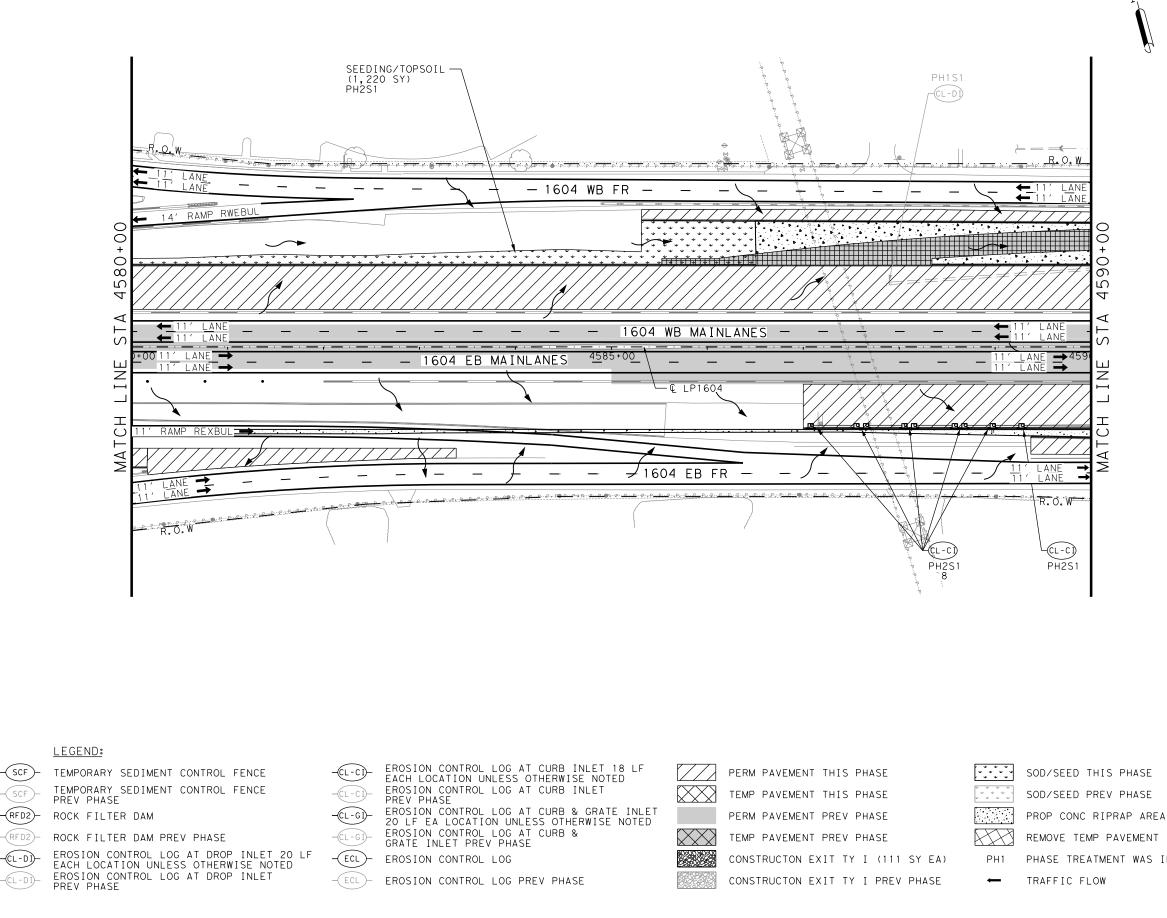
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	6597
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	6597
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	6597
168	VEGETATIVE WATERING	MG	102.9
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	6597
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	408
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	408
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	100
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	100

NOTES:

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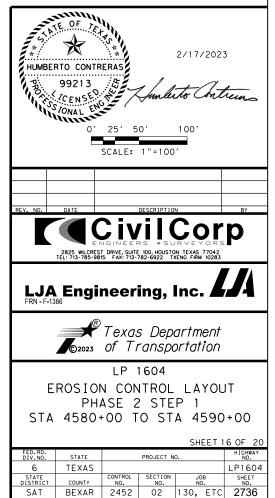




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1220
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	1220
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	1220
168	VEGETATIVE WATERING	MG	19.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1220
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	162
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	162

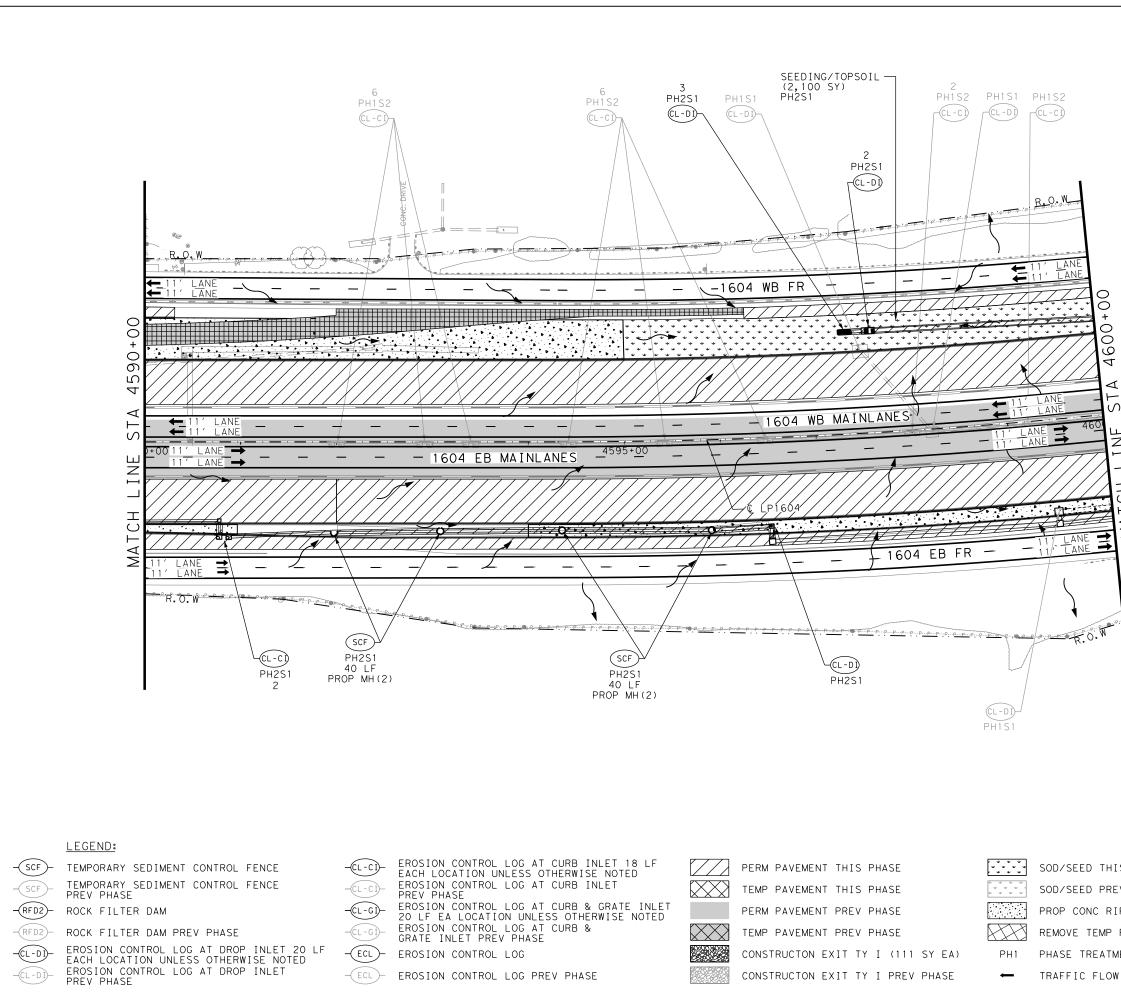
NOTES:

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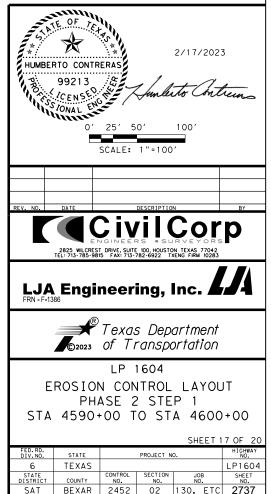
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QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	2100		
162	BLOCK SODDING	SY	0		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	2100		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	2100		
168	VEGETATIVE WATERING	MG	32.8		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	2100		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	80		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	80		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	138		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	138		
* FOR CONTRACTOR'S INFORMATION ONLY					

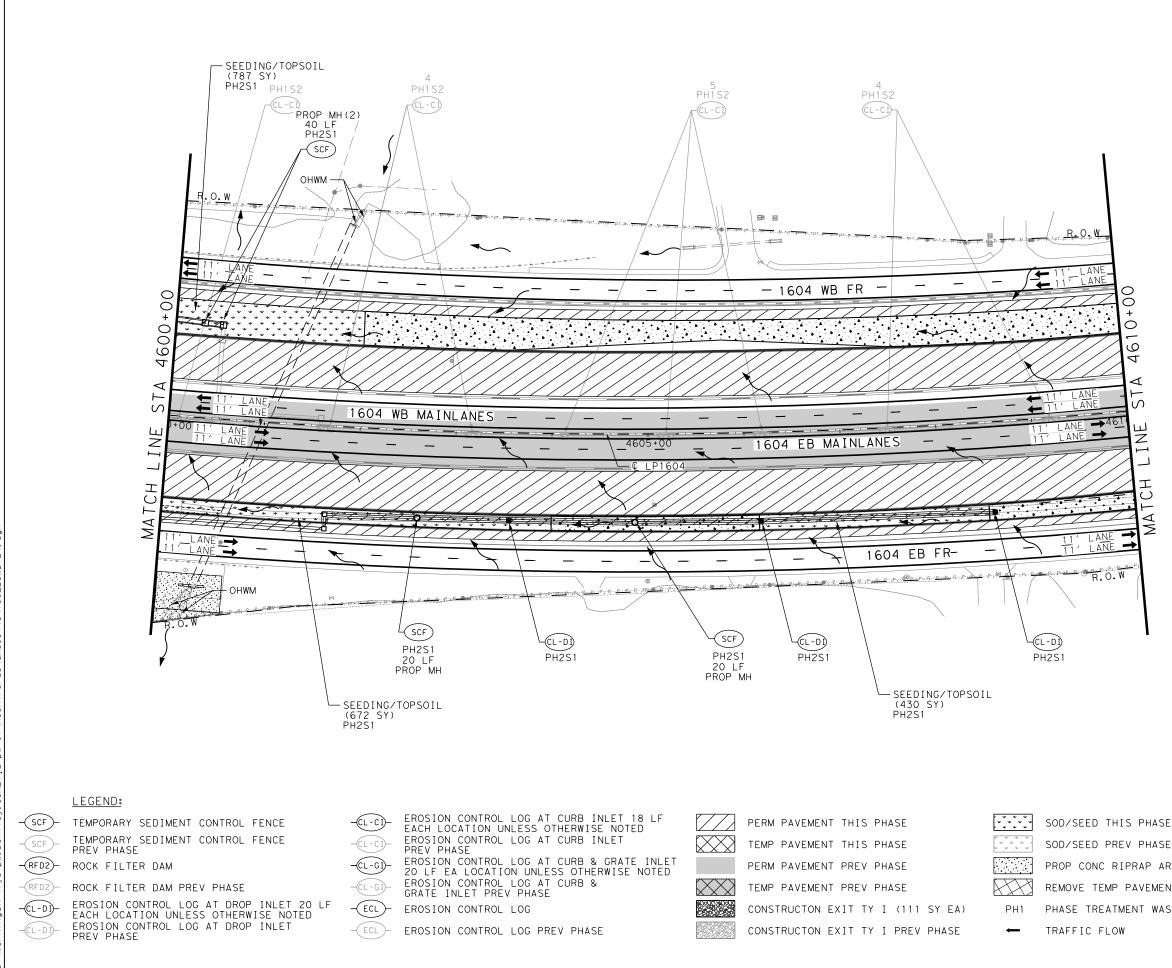
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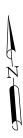
REFER TO SW3P NARRATIVE SHEET FOR 1.

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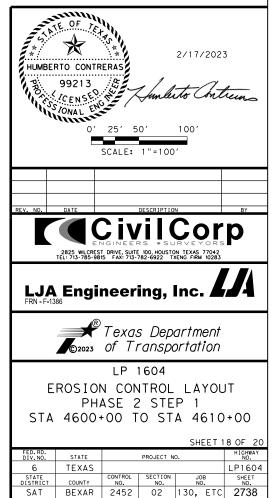
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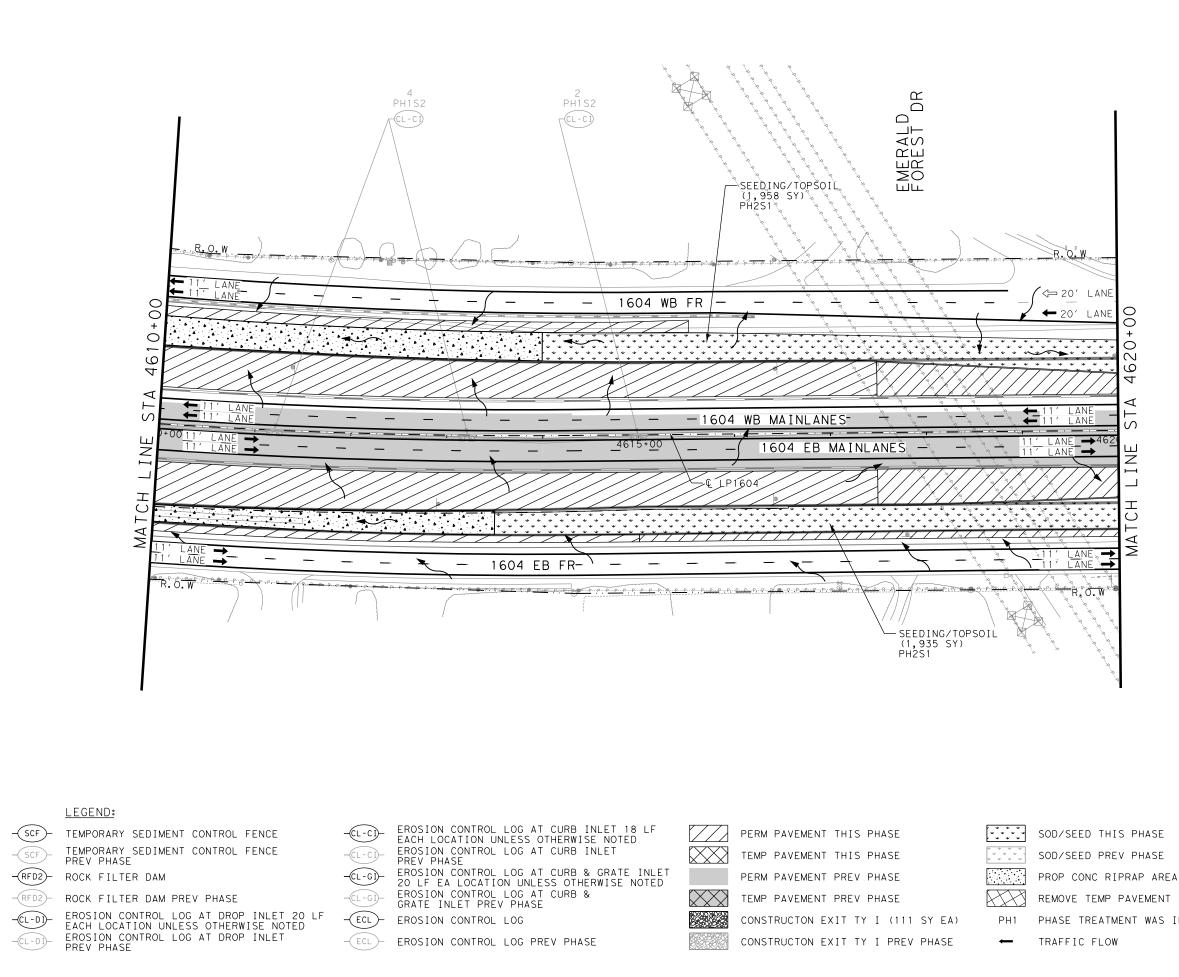
	QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY			
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1889			
162	BLOCK SODDING	SY	0			
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	1889			
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	1889			
168	VEGETATIVE WATERING	MG	29.5			
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1889			
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0			
506	ROCK FILTER DAMS (REMOVE)	LF	0			
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0			
506	CONSTRUCTION EXITS (REMOVE)	SY	0			
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0			
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0			
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	80			
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	80			
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	60			
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	60			

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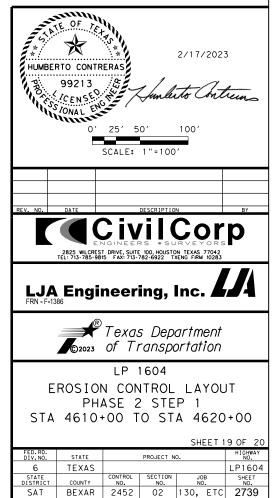




	QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY			
160	FURNISHING AND PLACING TOPSOIL (4")	SY	3893			
162	BLOCK SODDING	SY	0			
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	3893			
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	3893			
168	VEGETATIVE WATERING	MG	60.7			
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	3893			
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0			
506	ROCK FILTER DAMS (REMOVE)	LF	0			
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0			
506	CONSTRUCTION EXITS (REMOVE)	SY	0			
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0			
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0			
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0			
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0			
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0			
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0			

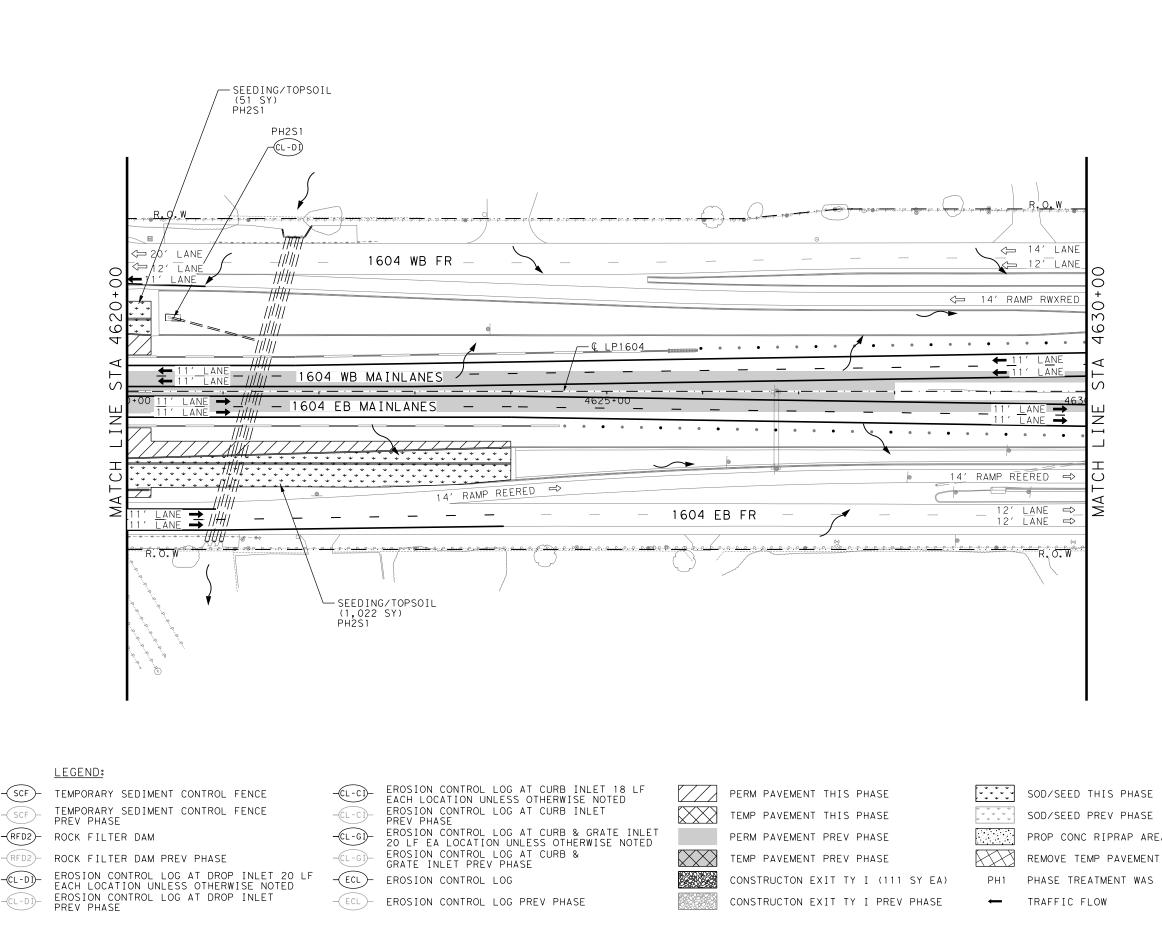
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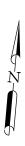
- 1. REFER TO SW3P NARRATIVE SHEET FOR
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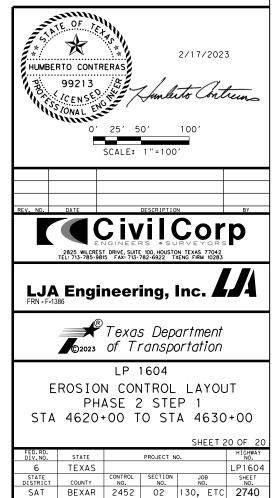
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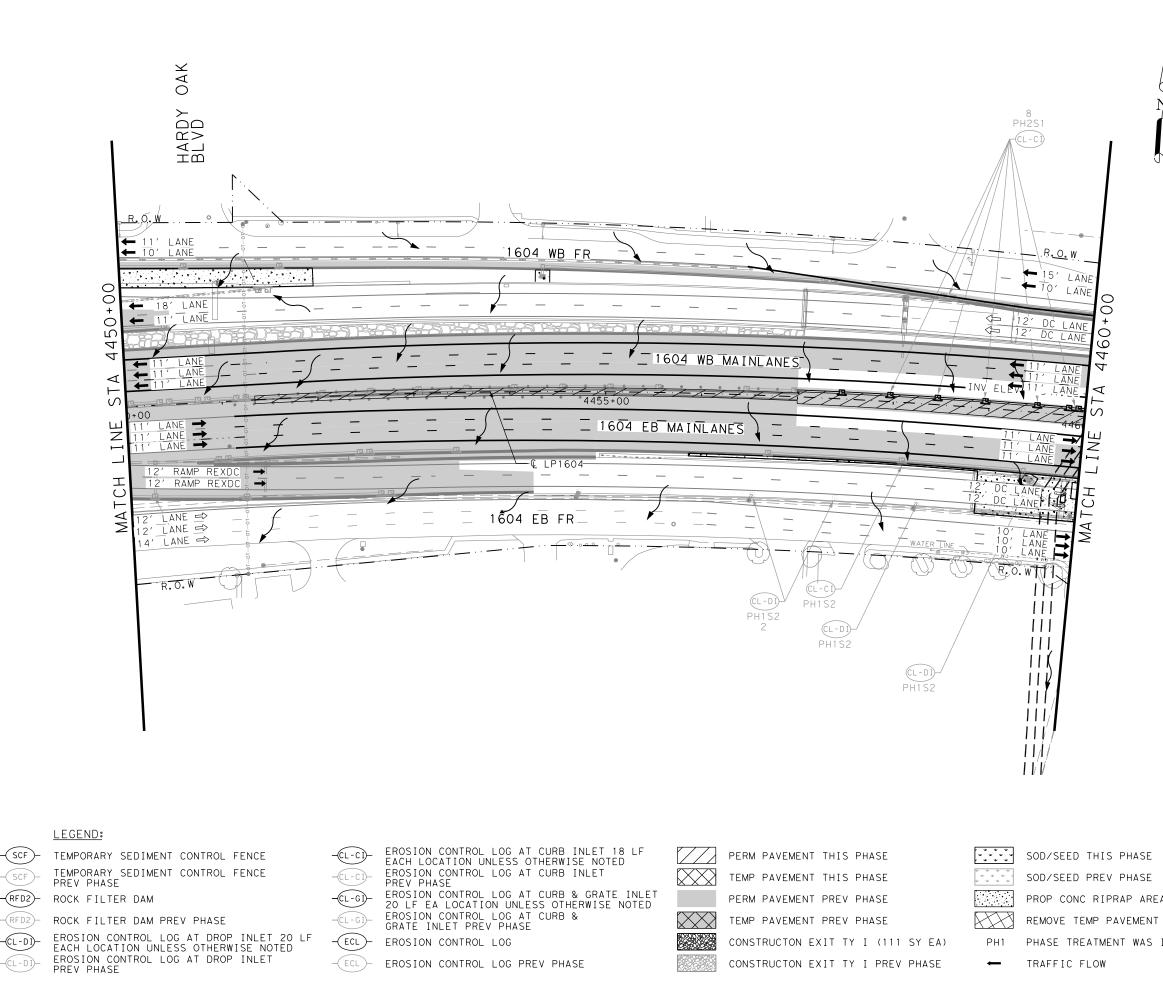




QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1073		
162	BLOCK SODDING	SY	0		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	16.7		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1073		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20		
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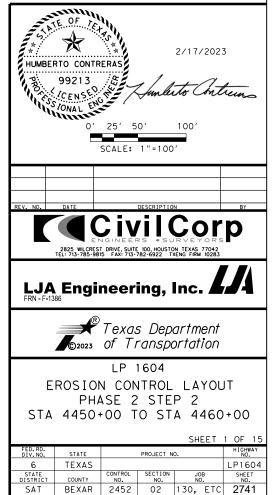
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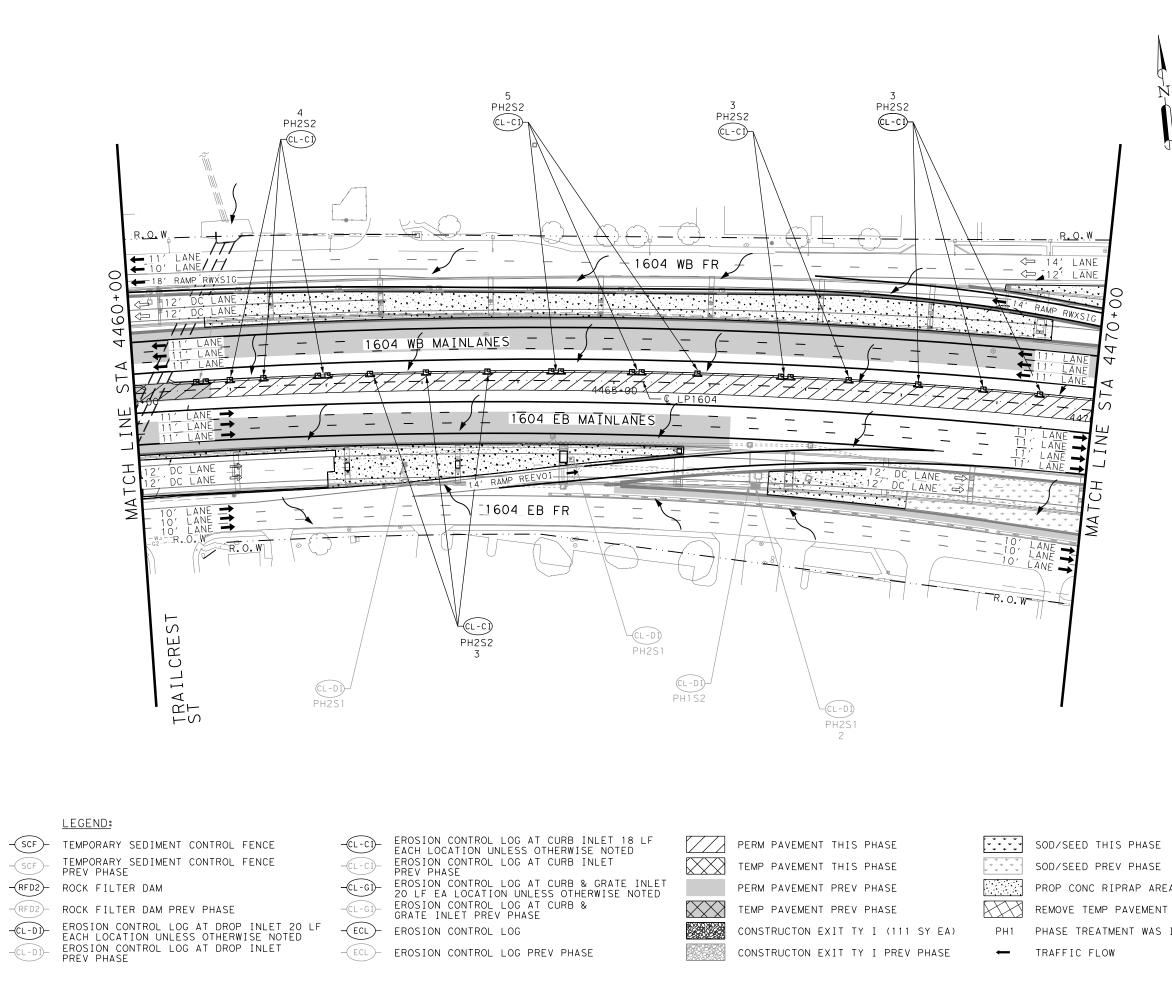
	160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
	162	BLOCK SODDING	SY	0
		DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
		DRILL SEED (TEMP) (WARM OR COOL)	SY	0
		VEGETATIVE WATERING	MG	0.0
	169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
		ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
		ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
		ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
		ROCK FILTER DAMS (REMOVE)	LF	0
	506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
	506	CONSTRUCTION EXITS (REMOVE)	SY	0
		BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
	506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
		TEMP SEDMT CONT FENCE (INSTALL)	LF	0
	506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
	506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
	506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0
N	OTES	OR CONTRACTOR'S INFORMATION		
1.		EFER TO SW3P NARRATIVE SHEE	ΤF	OR
2.	. ĀL	L STRUCTURES TO BE PLACED		
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	S	TANDARDS EC(1)-EC(3).		
3.		FER TO SW3P STANDARD SHEET	S E	0R
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4.		(ISTING STORM DRAINS/CULVER	IS .	ARE
	SF	HOWN AS DASHED.		
5.	ΤN	NSTALLED MEASURES SHALL REM	ΔΙΝ	
		N PLACE AND SHALL BE MAINTA		
		ROUGHOUT DURATION OF PROJE	CI	OR
	AS	5 DIRECTED BY THE ENGINEER.		
6.	. B4	ACKHOE WORK ESTIMATED AT 2	HOU	RS
		ER SEDIMENT CONTROL FENCE A		
		CK FILTER DAM INSTALLATION		

QUANTITY SUMMARY CSJ 0072-08-130, ET DESCRIPTION FURNISHING AND PLACING TOPSOIL (4")

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- ROCK FILTER DAM INSTALLATION. SW3P MEASURES SHOWN ARE MINIMUM REQUIREMENTS BASED UPON PROJECT 7. DESIGN. INSTALLATION OF SW3P MEASURES WILL BE AS SHOWN AND MODIFIED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
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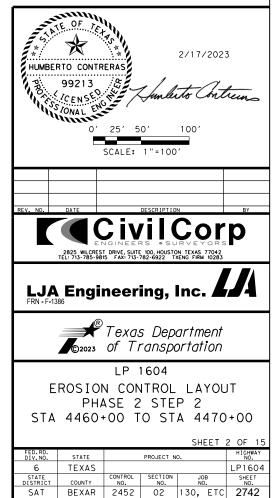




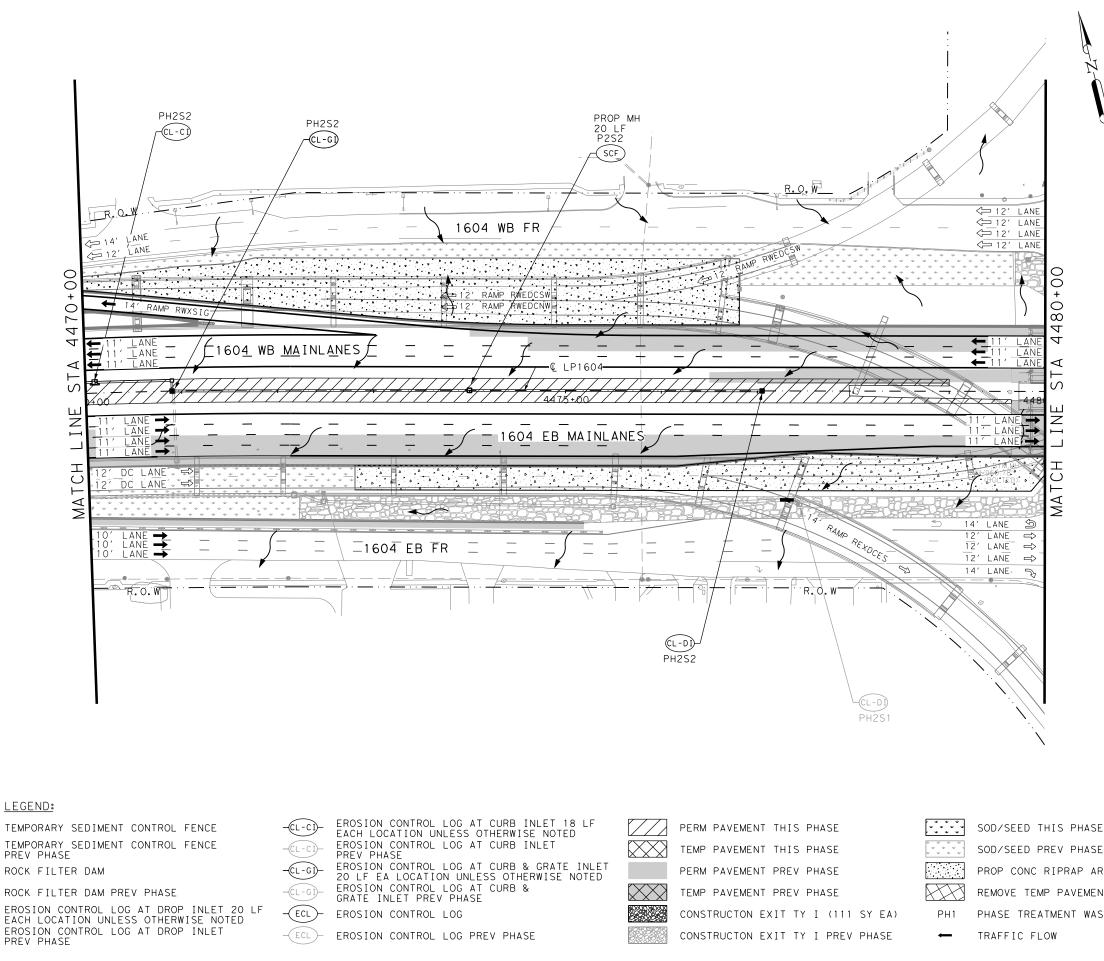
	QUANTITY SUMMARY CSJ 0072-08-130.ETC					
ITEM	DESCRIPTION	UNIT	QTY			
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0			
162	BLOCK SODDING	SY	0			
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0			
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0			
168	VEGETATIVE WATERING	MG	0.0			
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0			
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0			
506	ROCK FILTER DAMS (REMOVE)	LF	0			
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0			
506	CONSTRUCTION EXITS (REMOVE)	SY	0			
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0			
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0			
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0			
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0			
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	324			
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	324			
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NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- OTHER NOTES. ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
- REFER TO SW3P STANDARD SHEETS FOR 3. DETAILS.
- 4.
- DETAILS. EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
- PER SEDIMENT CONTROL FENCE AND
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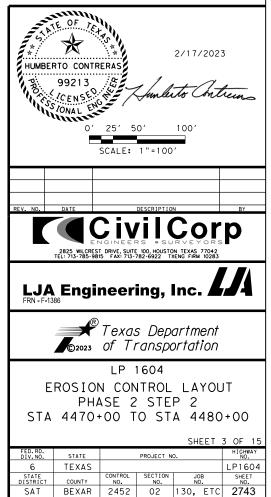
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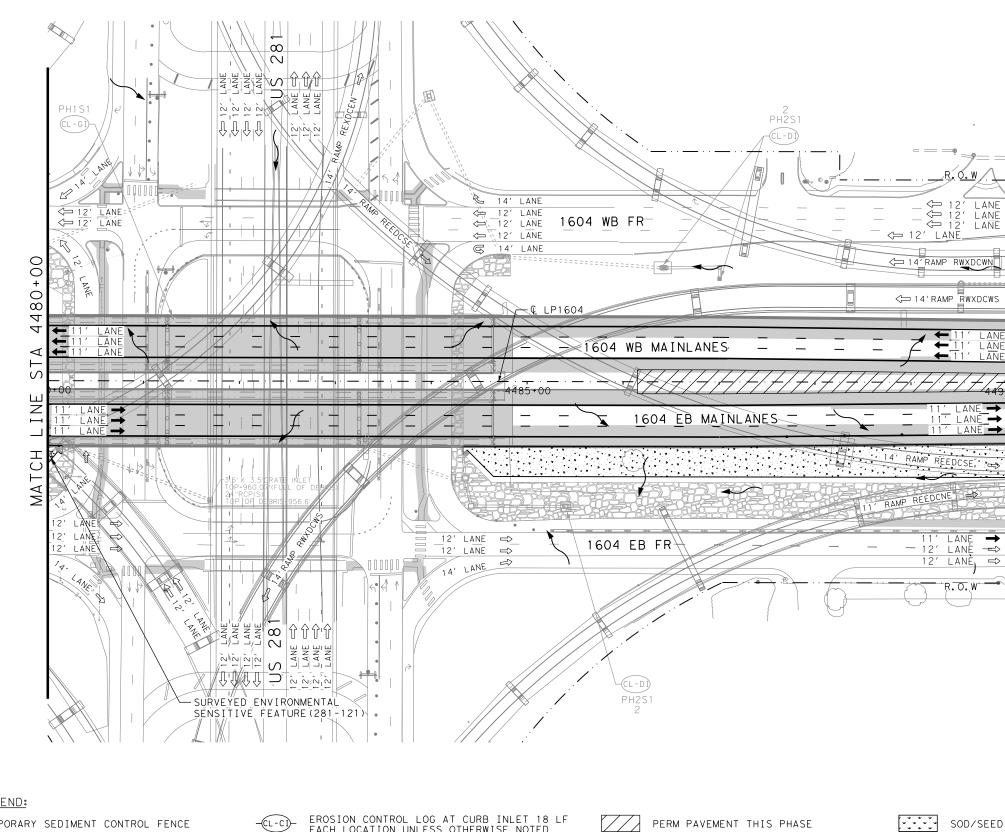
	QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY			
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0			
162	BLOCK SODDING	SY	0			
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0			
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0			
168	VEGETATIVE WATERING	MG	0.0			
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0			
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0			
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0			
506	ROCK FILTER DAMS (REMOVE)	LF	0			
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0			
506	CONSTRUCTION EXITS (REMOVE)	SY	0			
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0			
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0			
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20			
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20			
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	58			
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	58			

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

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- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON STANDARDS EC(1)-EC(3). 2.
- REFER TO SW3P STANDARD SHEETS FOR 3. DETAILS.
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- DETAILS. EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
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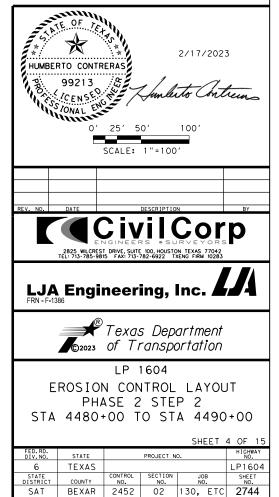
	LEGEND:					
-SCF-	TEMPORARY SEDIMENT CONTROL FENCE	-CL-CI-	EROSION CONTROL LOG AT CURB INLET 18 LF EACH LOCATION UNLESS OTHERWISE NOTED		PERM PAVEMENT THIS PHASE	,
- SCF-	TEMPORARY SEDIMENT CONTROL FENCE PREV PHASE	-CL-CI-	EROSION CONTROL LOG AT CURB INLET PREV PHASE	\bigotimes	TEMP PAVEMENT THIS PHASE	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
-RFD2-	ROCK FILTER DAM	-CL-GI-	EROSION CONTROL LOG AT CURB & GRATE INLET 20 LF EA LOCATION UNLESS OTHERWISE NOTED		PERM PAVEMENT PREV PHASE	
-RFD2-	ROCK FILTER DAM PREV PHASE	-CL-GI-	EROSION CONTROL LOG AT CURB & GRATE INLET PREV PHASE	$\times\!\!\!\times\!\!\!\times$	TEMP PAVEMENT PREV PHASE	
-CL-DI-	EROSION CONTROL LOG AT DROP INLET 20 LF EACH LOCATION UNLESS OTHERWISE NOTED	-ECL-	EROSION CONTROL LOG		CONSTRUCTON EXIT TY I (111 SY EA)	PH1
-CL-DI-	EROSION CONTROL LOG AT DROP INLET PREV PHASE	- ECL-	EROSION CONTROL LOG PREV PHASE		CONSTRUCTON EXIT TY I PREV PHASE	-



QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0		
162	BLOCK SODDING	SY	0		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	0.0		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0		
* FOR CONTRACTOR'S INFORMATION ONLY					

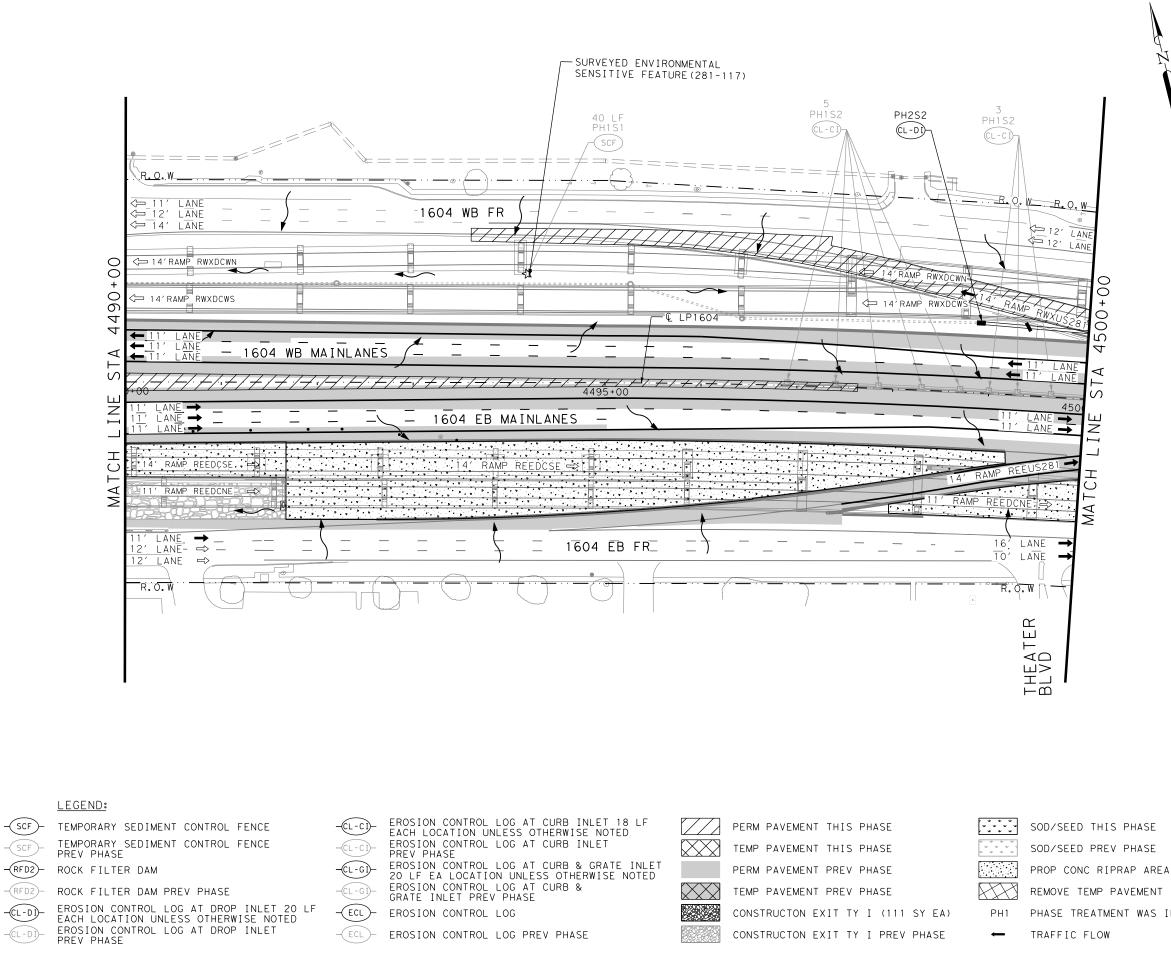
1. REFER TO SW3P NARRATIVE SHEET FOR

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- 4.
- REFER TO SWSP STANDARD SHELTS FOR DETAILS. EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
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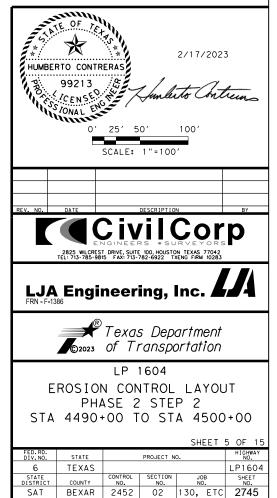
SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED TRAFFIC FLOW



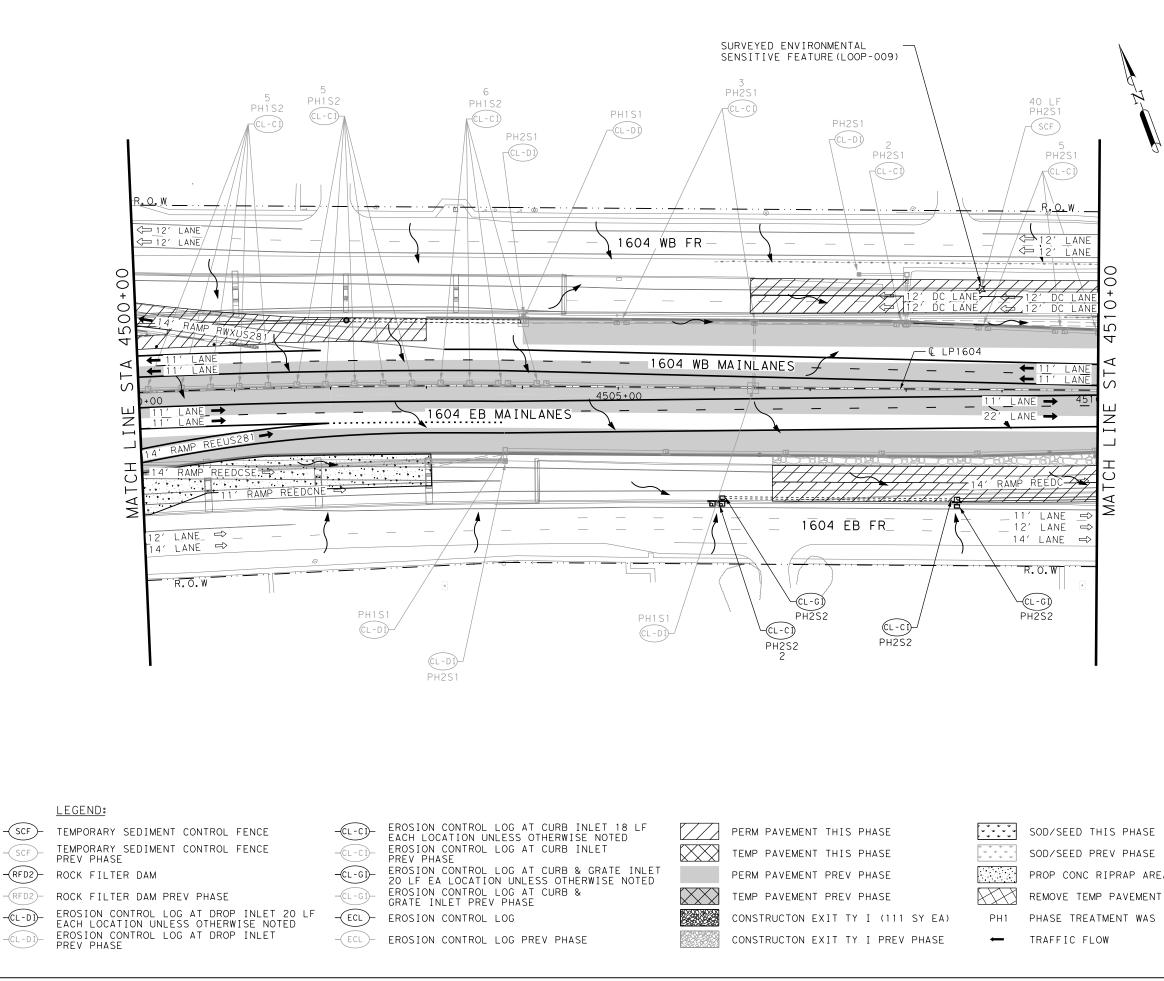


QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0		
162	BLOCK SODDING	SY	0		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	0.0		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	20		
× F	OR CONTRACTOR'S INFORMATIO	N OI	VLY		

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PHASE TREATMENT WAS INSTALLED

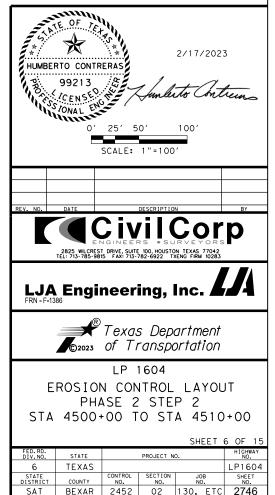




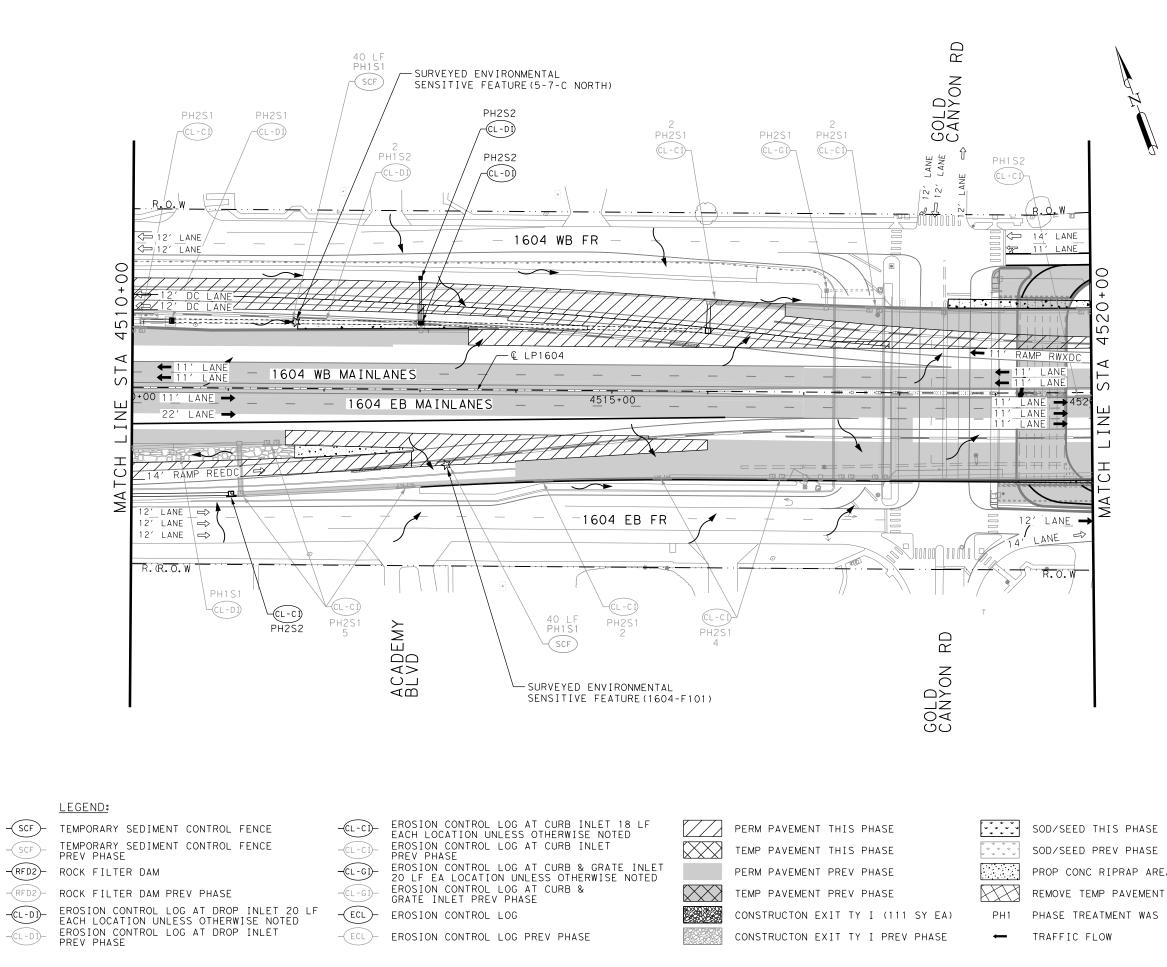
	QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0		
162	BLOCK SODDING	SY	0		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	0.0		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	94		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	94		
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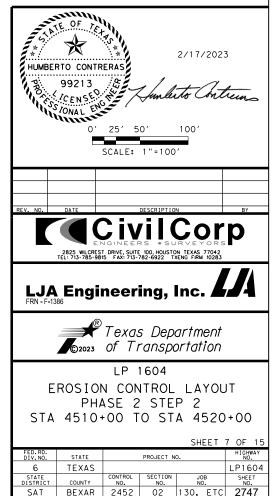


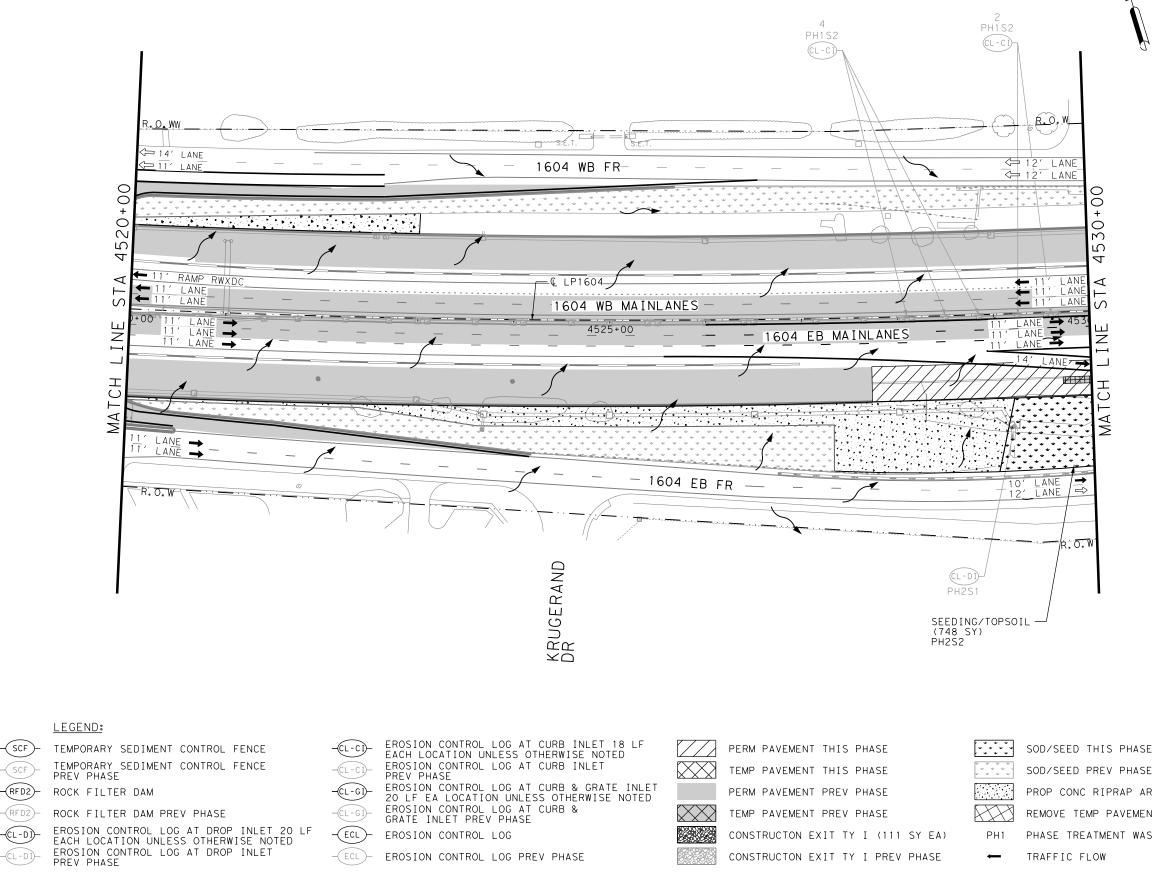


	QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0		
162	BLOCK SODDING	SY	0		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	0.0		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	20		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	20		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	58		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	58		

NOTES:

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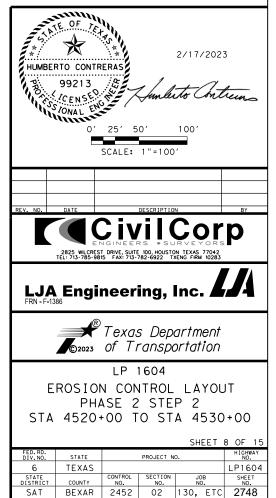




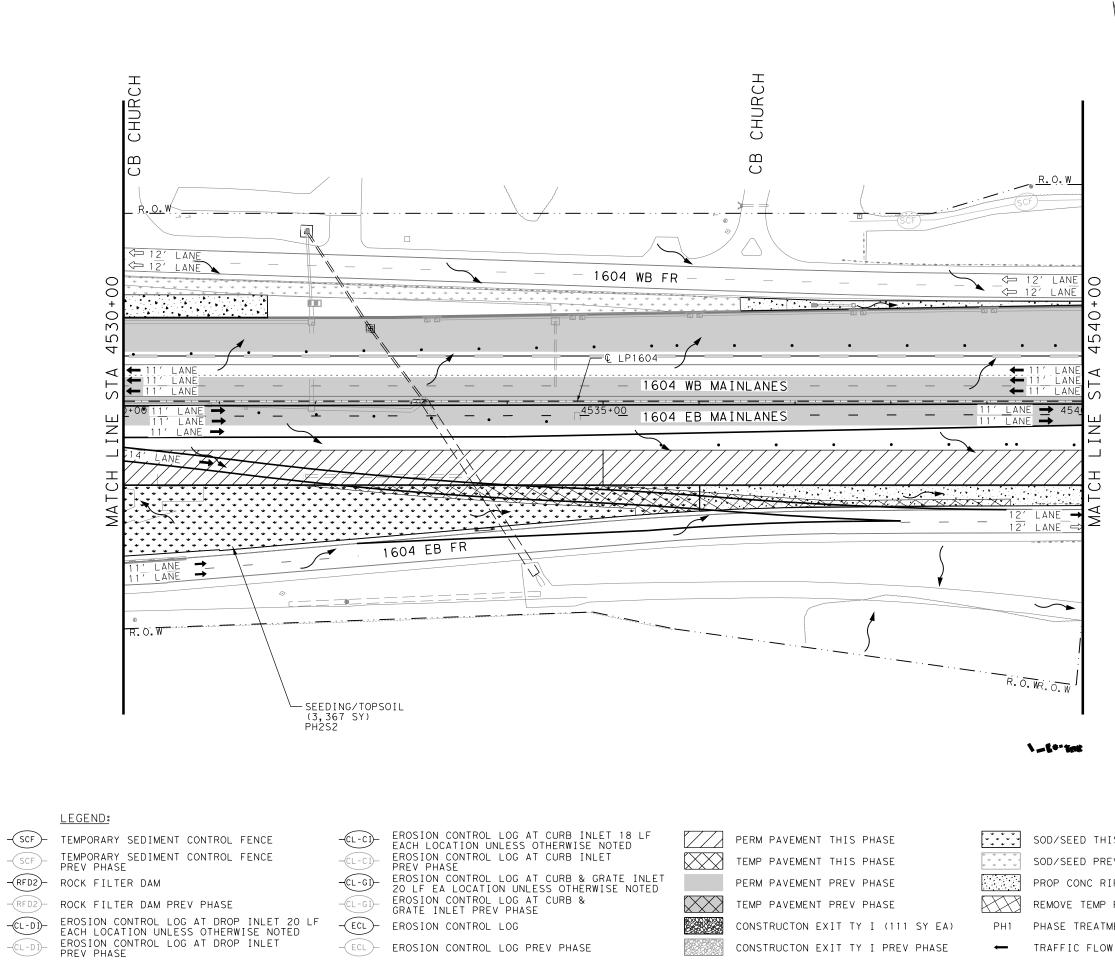
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	748
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	11.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	748
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

NOTES:

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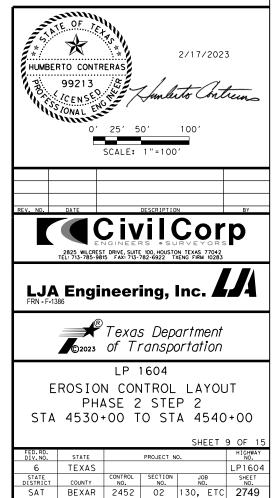
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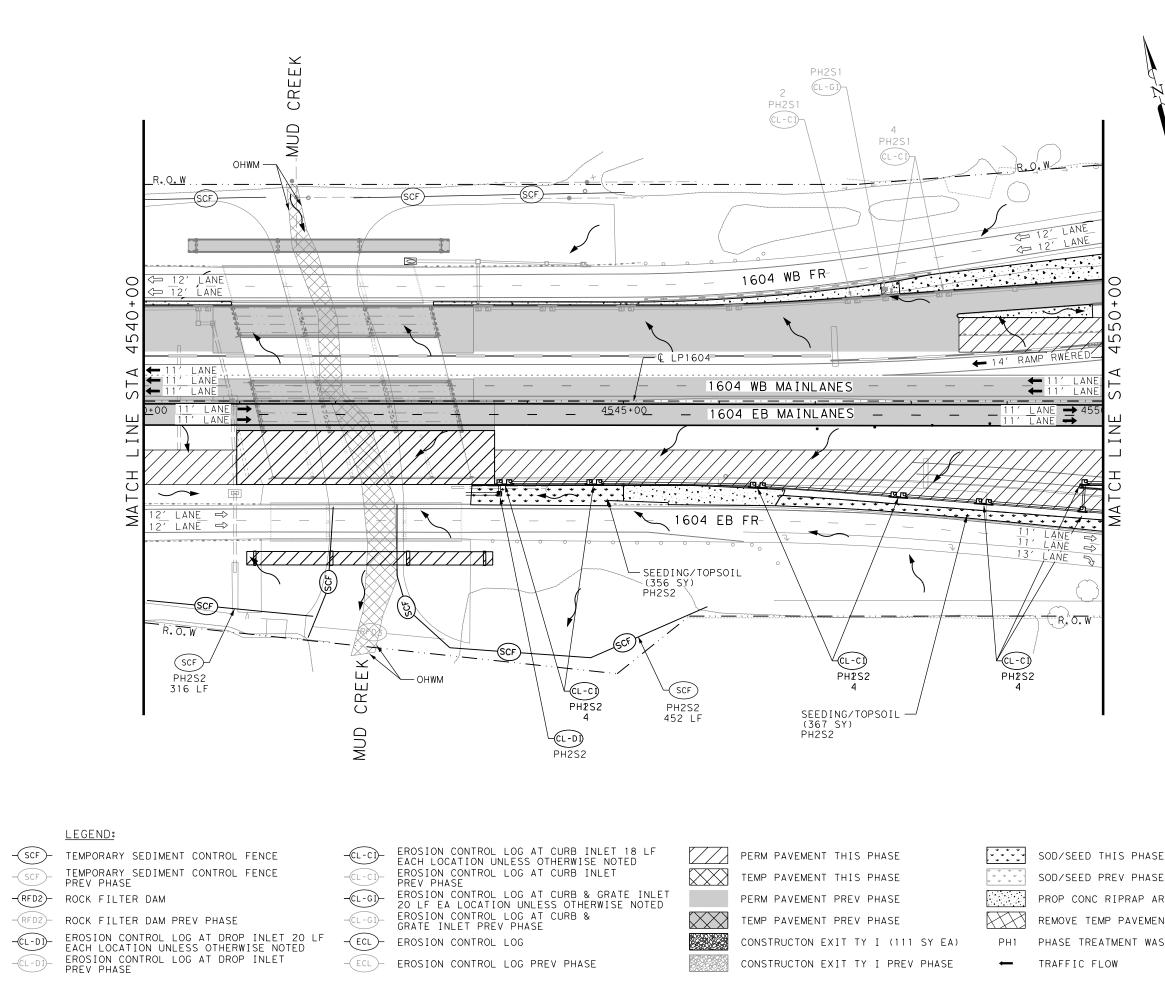


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	3367
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	52.5
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	3367
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

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SOD/SEED THIS PHASE SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED

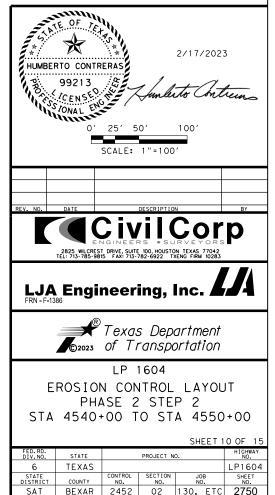




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	723
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	723
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	723
168	VEGETATIVE WATERING	MG	11.3
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	723
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	768
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	768
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	236
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	236

NOTES:

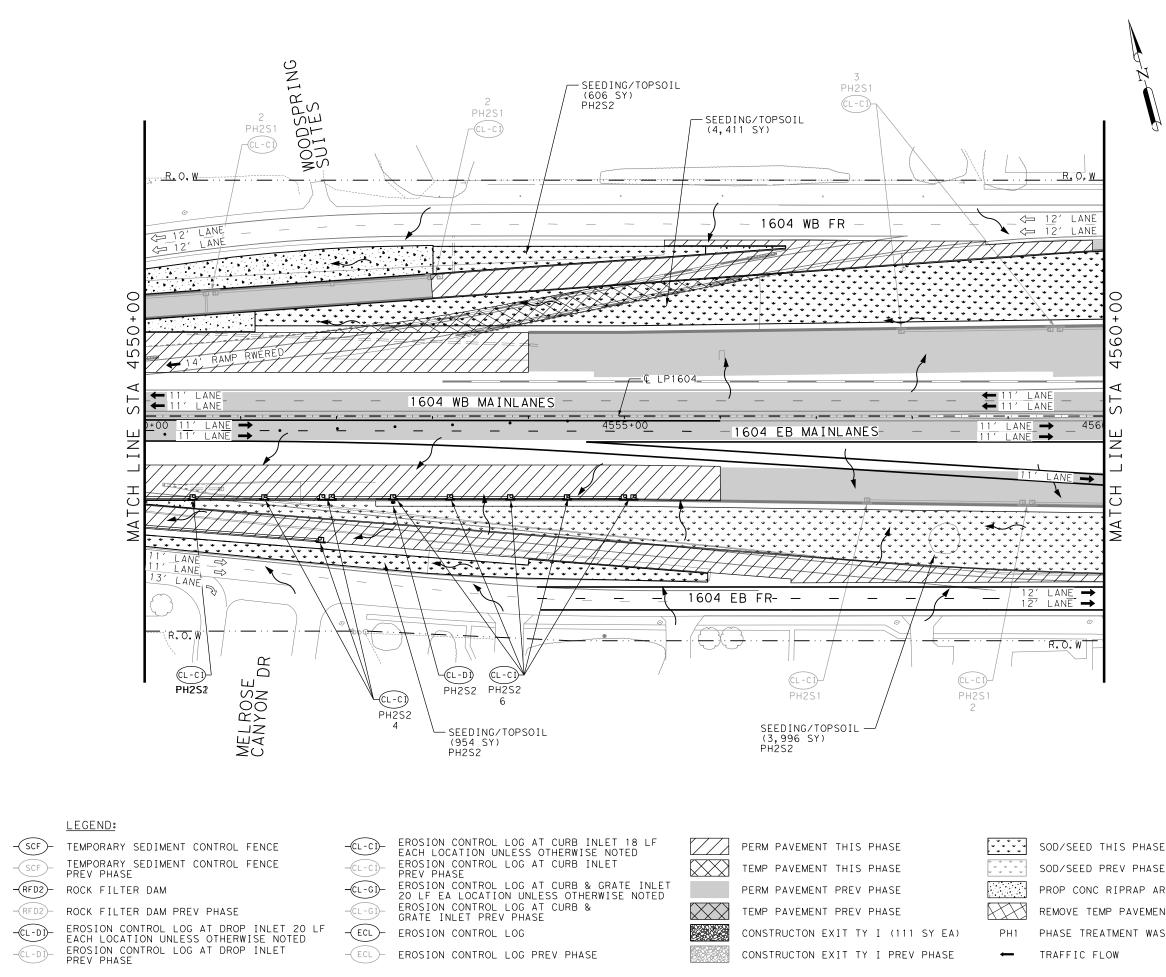
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SOD/SEED PREV PHASE PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED



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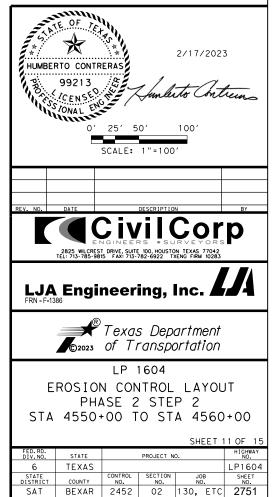


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	9967
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	9967
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	9967
168	VEGETATIVE WATERING	MG	155.5
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	9967
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	218
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	218

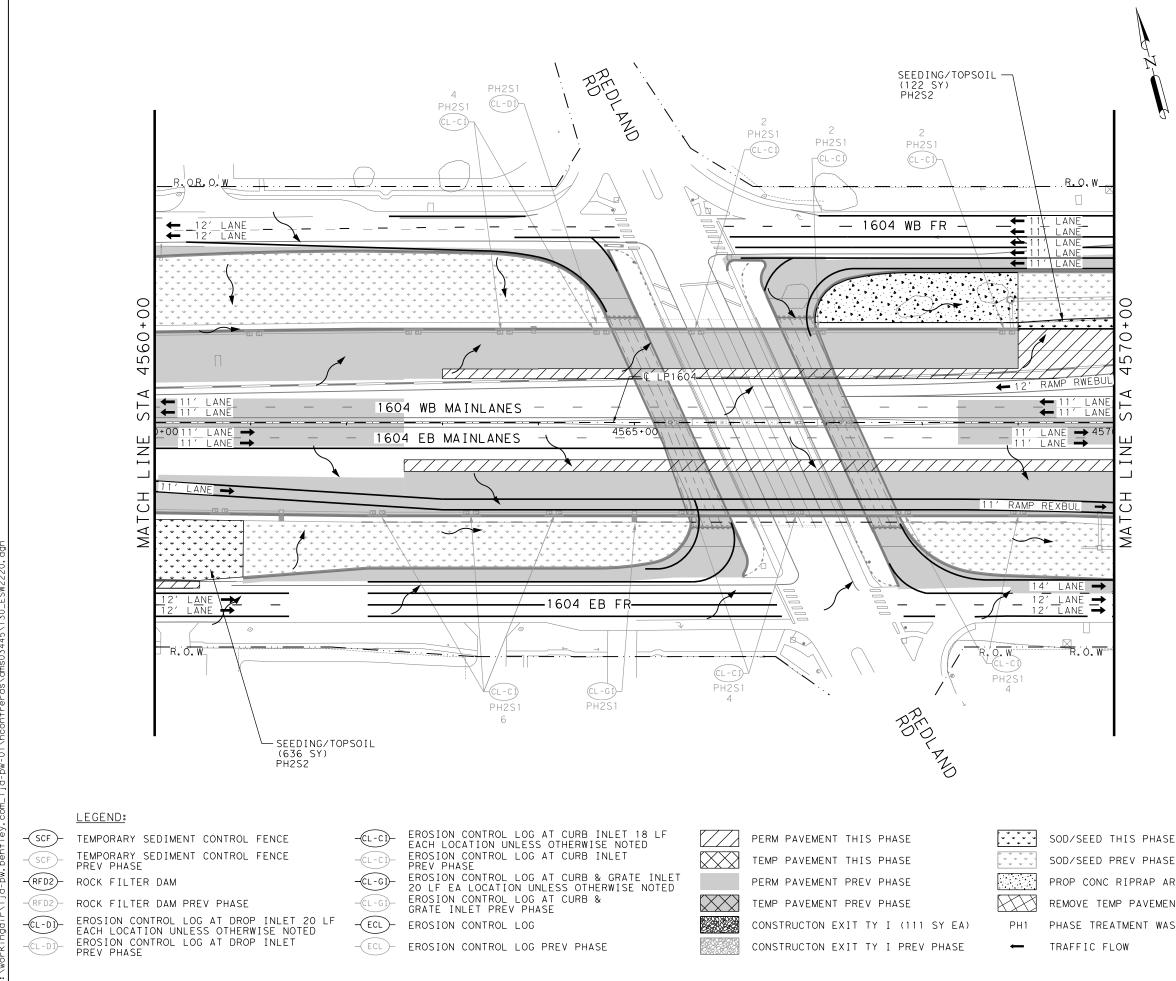
* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

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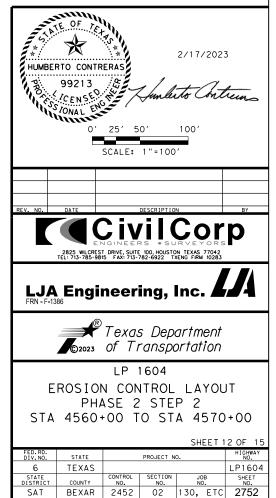




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	758
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	758
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	758
168	VEGETATIVE WATERING	MG	11.8
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	758
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

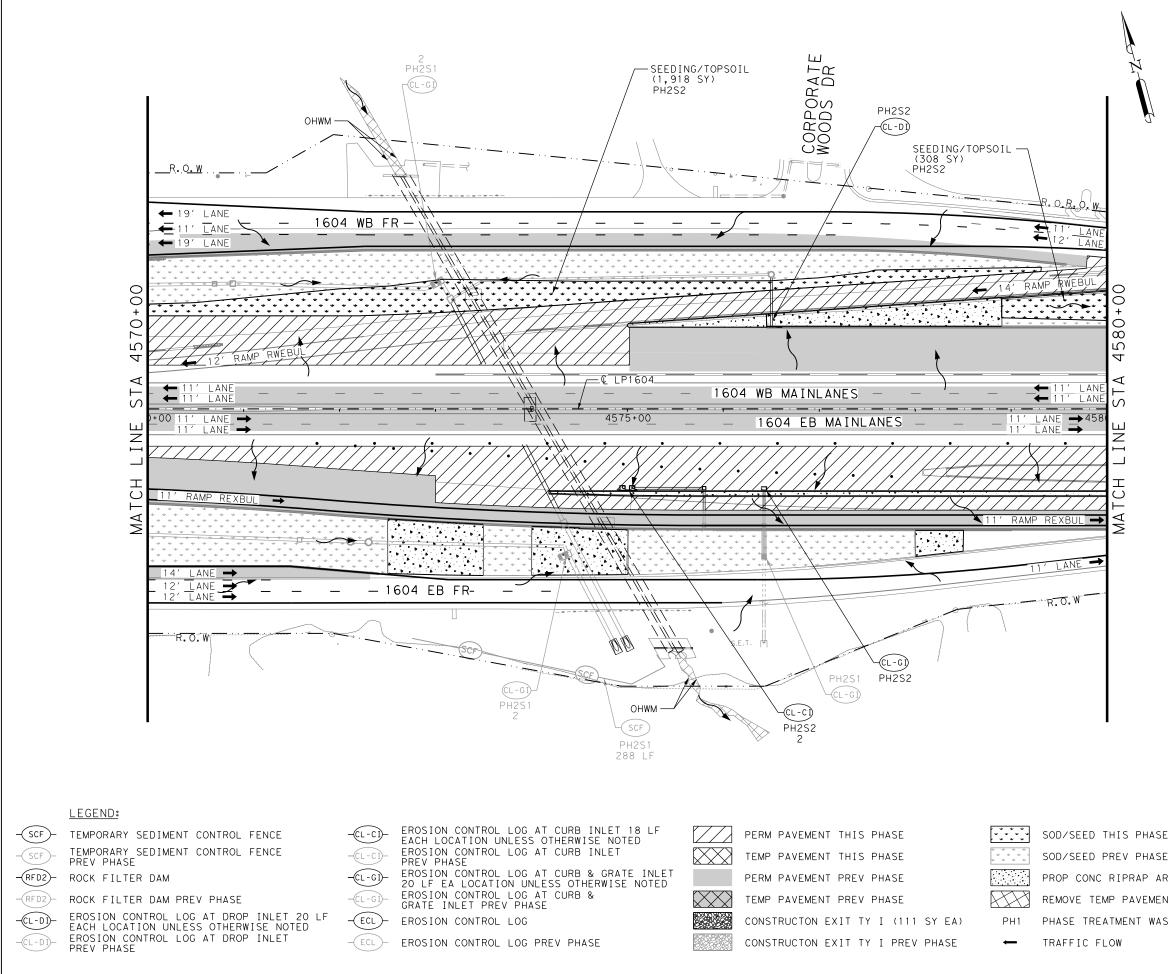
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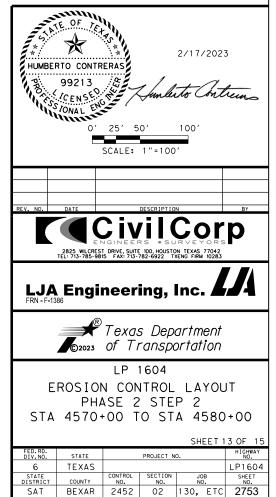




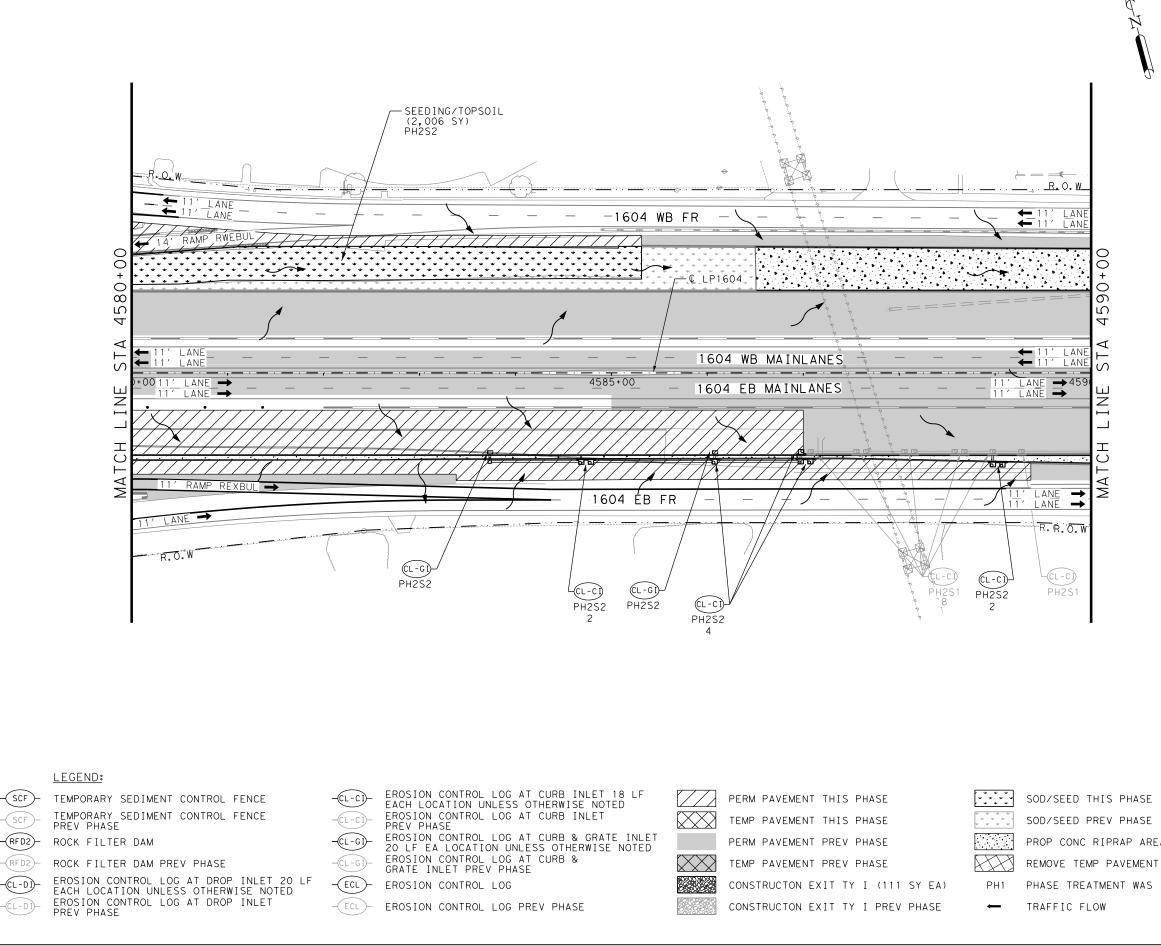
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	2226
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	2226
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	2226
168	VEGETATIVE WATERING	MG	34.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	2226
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	76
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	76

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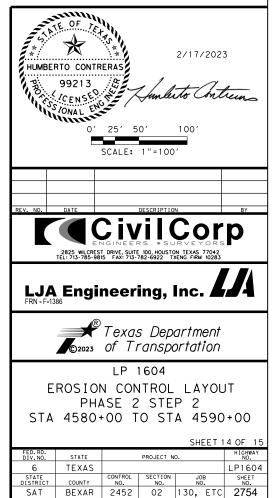




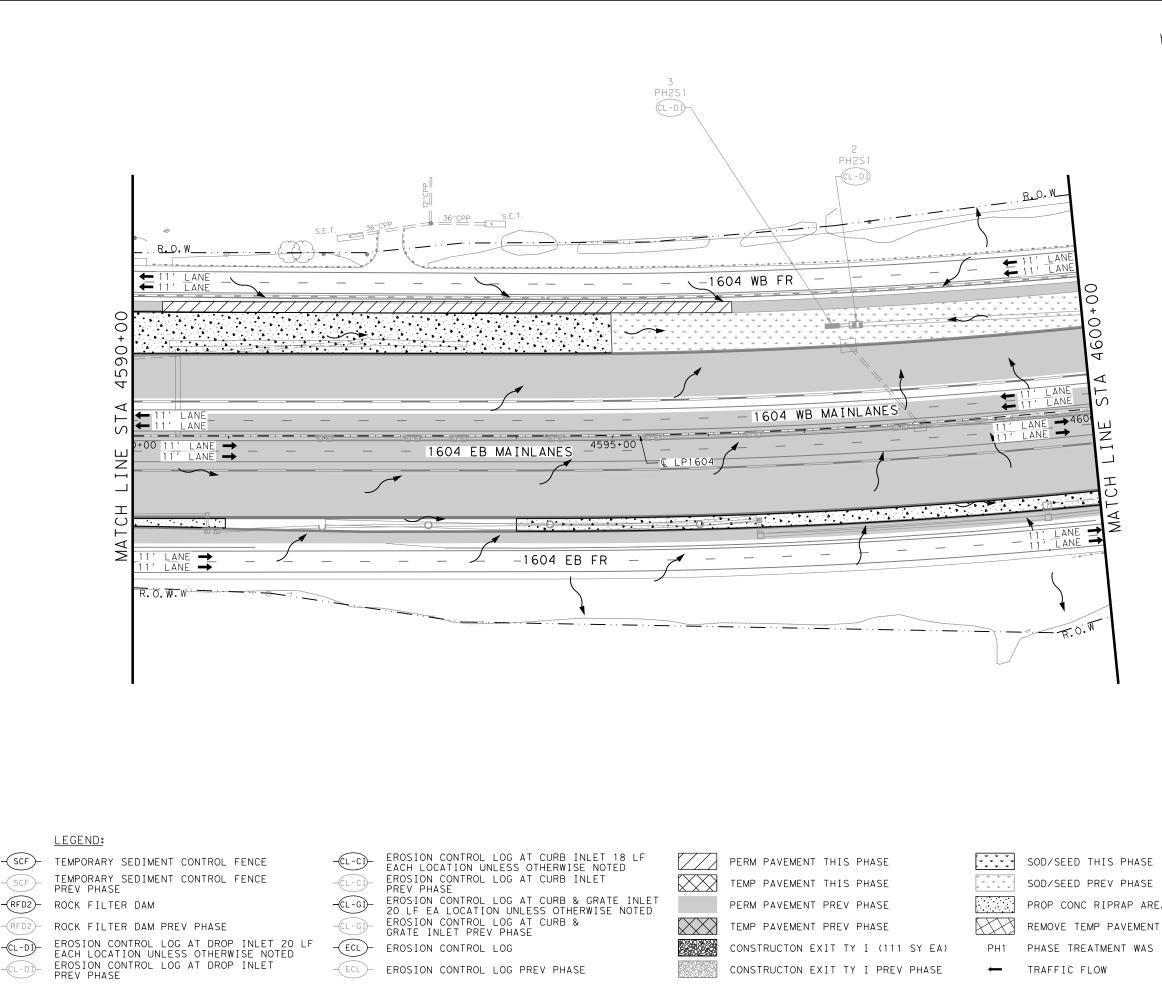
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	2006
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	2006
* 164	DRILL SEED (TEMP) (WARM OR COOL)	SY	2006
168	VEGETATIVE WATERING	MG	31.3
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	2006
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	184
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	184

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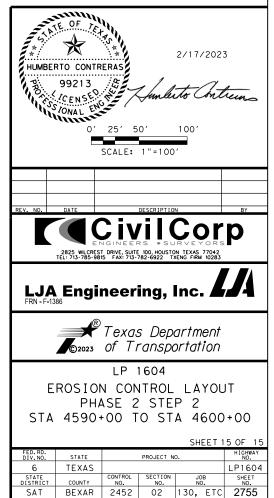




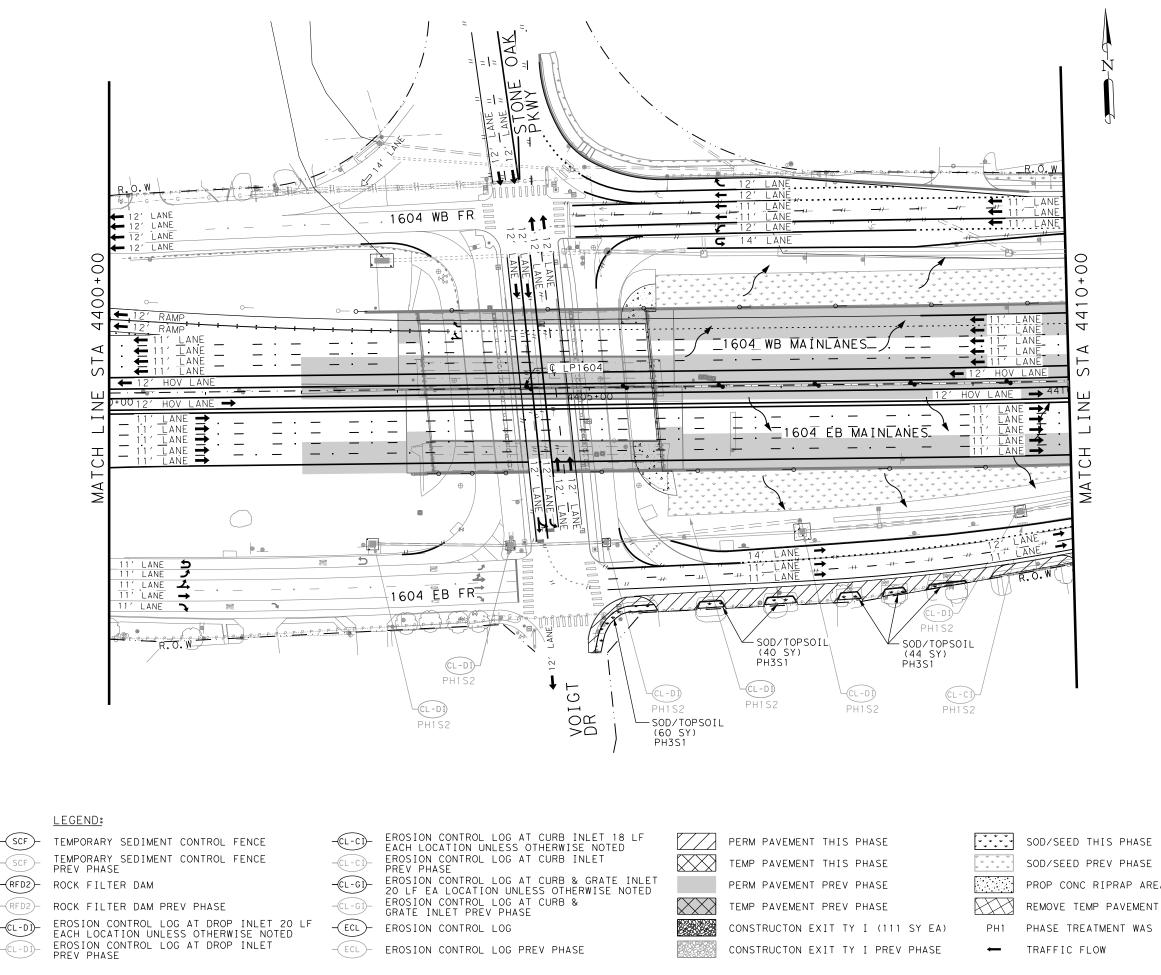
QUANTITY SUMMARY CSJ 0072-08-130, ETC					
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0		
162	BLOCK SODDING	SY	0		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	0.0		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0		
* F	FOR CONTRACTOR'S INFORMATIO	N OI	NLY		

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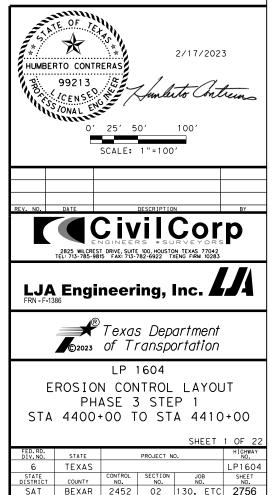
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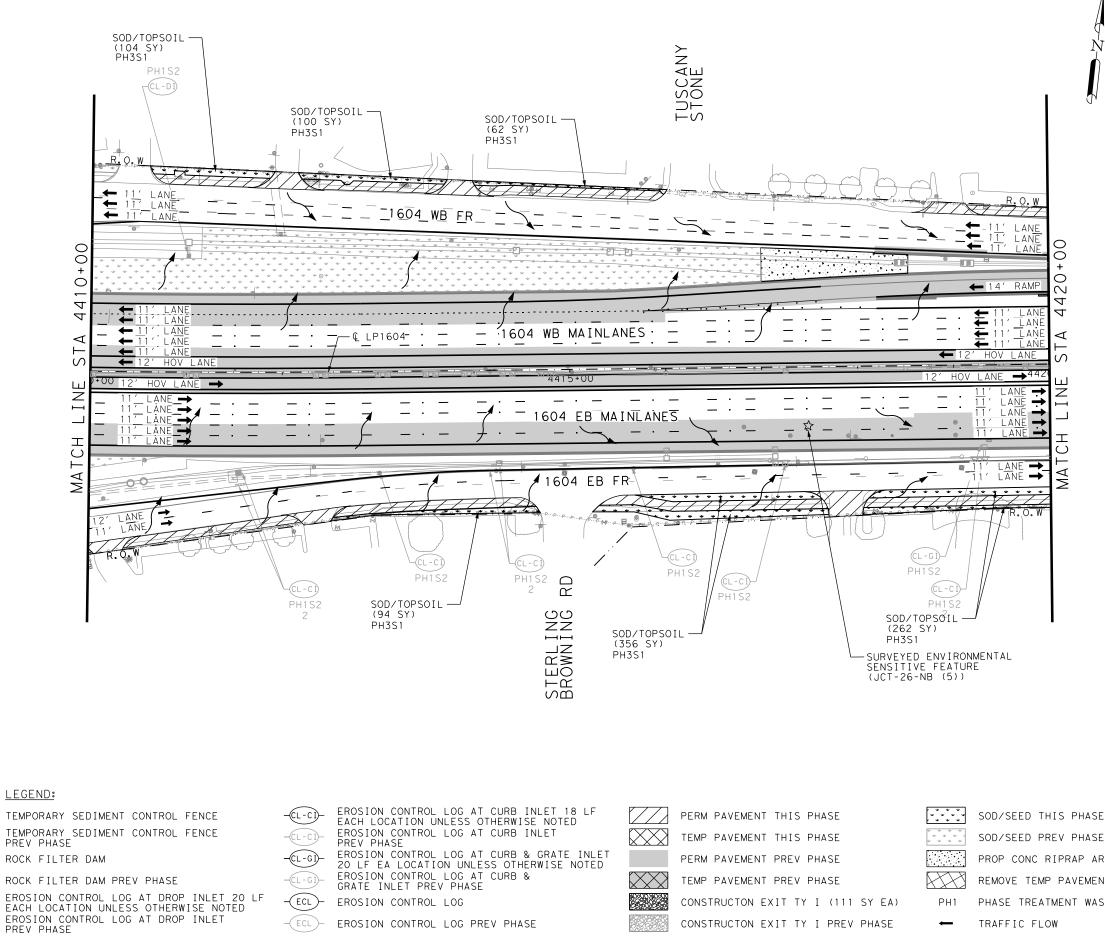


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ITEM	QUANTITY SUMMARY CSJ 0072-08-130,ET DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	144	
162	BLOCK SODDING	SY	144	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	2.2	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	144	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0	
* FOR CONTRACTOR'S INFORMATION ONLY				
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	QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	978		
162	BLOCK SODDING	SY	978		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	15.3		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	978		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0		
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* FOR CONTRACTOR'S INFORMATION ONLY

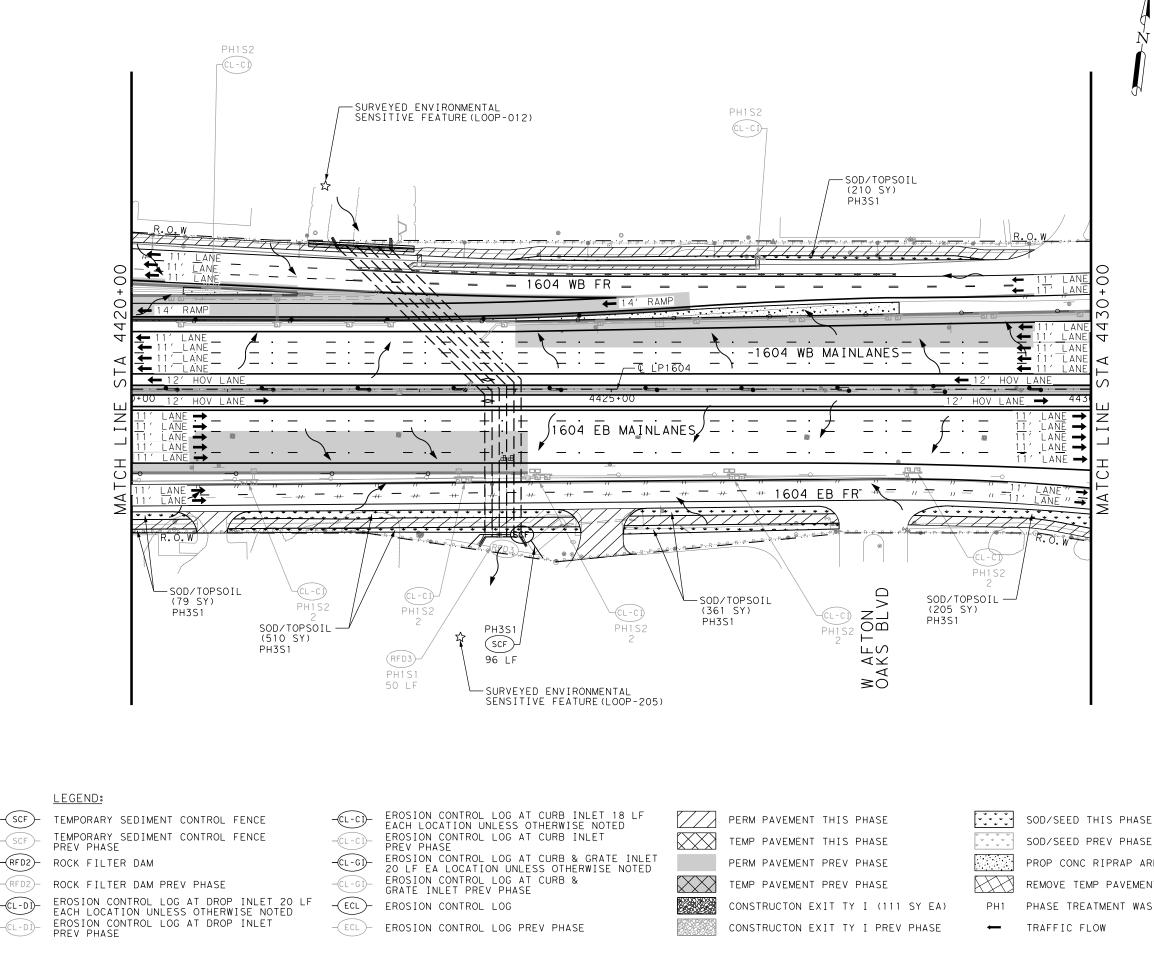
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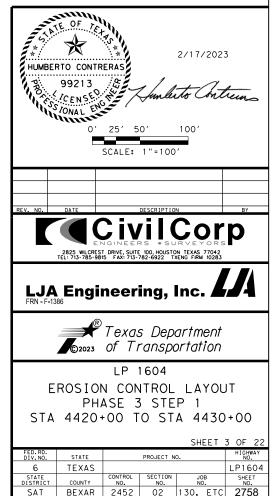
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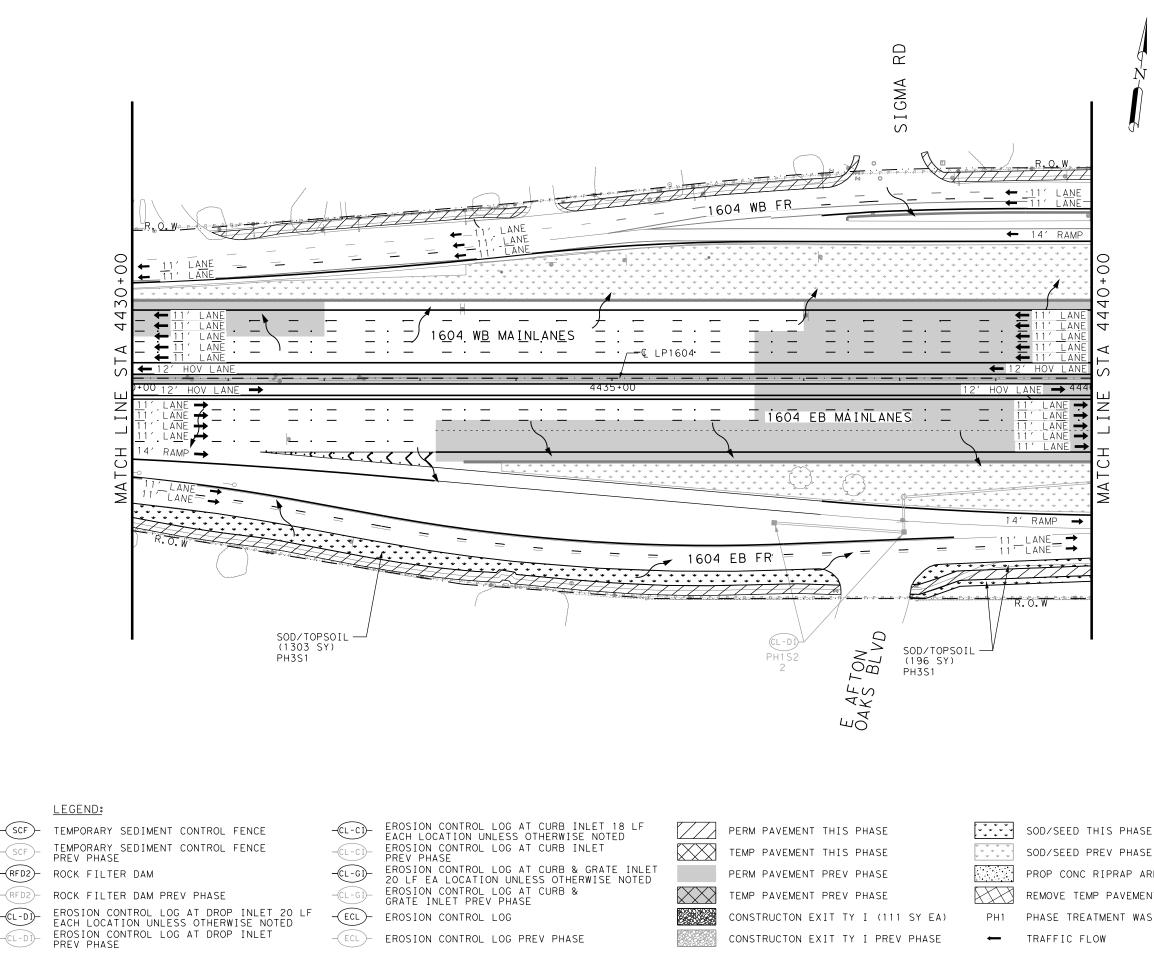
DESCRIPTION DESCRIPTION EURNISHING AND PLACING TOPSOIL (4") BLOCK SODDING DRILL SEEDING (PERM) (URBAN) (CLAY) DRILL SEED (TEMP) (WARM OR COOL)	UNIT SY SY SY	01Y 1365 1365		
BLOCK SODDING DRILL SEEDING (PERM)(URBAN)(CLAY)	SY SY	1365		
DRILL SEEDING (PERM) (URBAN) (CLAY)	SY			
DRILL SEED (TEMP) (WARM OR COOL)		0		
	SY	0		
VEGETATIVE WATERING	MG	21.3		
SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1365		
ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
ROCK FILTER DAMS (REMOVE)	LF	0		
CONSTRUCTION EXITS (INSTALL) (TY 1)		0		
CONSTRUCTION EXITS (REMOVE)		0		
		0		
		0		
TEMP SEDMT CONT FENCE (INSTALL)		96		
TEMP SEDMT CONT FENCE (REMOVE)		96		
		0		
BIODEG EROSN CONT LOGS (REMOVE)	LF	0		
	-			
* FOR CONTRACTOR'S INFORMATION ONLY				
	OCK FILTER DAMS (INSTALL) (TY 4) OCK FILTER DAMS (REMOVE) ONSTRUCTION EXITS (REMOVE) INSTRUCTION EXITS (REMOVE) INSTRUCTION EXITS (REMOVE) INTERCHOE MORK (EROSION & SEDWT CONT) ANDBAGS FOR EROSION CONTROL (6") EMP SEDWT CONT FENCE (INSTALL) EMP SEDWT CONT FENCE (REMOVE) IDDEG EROSN CONT LOGS (INSTL) (12") IDDEG EROSN CONT LOGS (REMOVE) CONTRACTOR'S INFORMATI	OCK FILTER DAMS (INSTALL) (TY 4) LF IOCK FILTER DAMS (REMOVE) LF IONSTRUCTION EXITS (INSTALL) (TY 1) SY IONSTRUCTION EXITS (REMOVE) SY IACKHOE WORK (EROSION & SEDWT CONT) HR ANDBAGS FOR EROSION CONTROL (6") LF EMP SEDMT CONT FENCE (INSTALL) LF IDDEG EROSN CONTLOGS (INSTL) (12") LF IDDEG EROSN CONT LOGS (INSTL) (12") LF IDDEG EROSN CONT LOGS (INSTL) (12") LF IDDEG CROSN CONT LOGS (REMOVE) LF IDDEG CONTRACTOR'S INFORMATION ON N		

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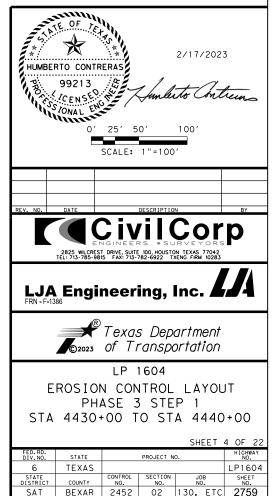
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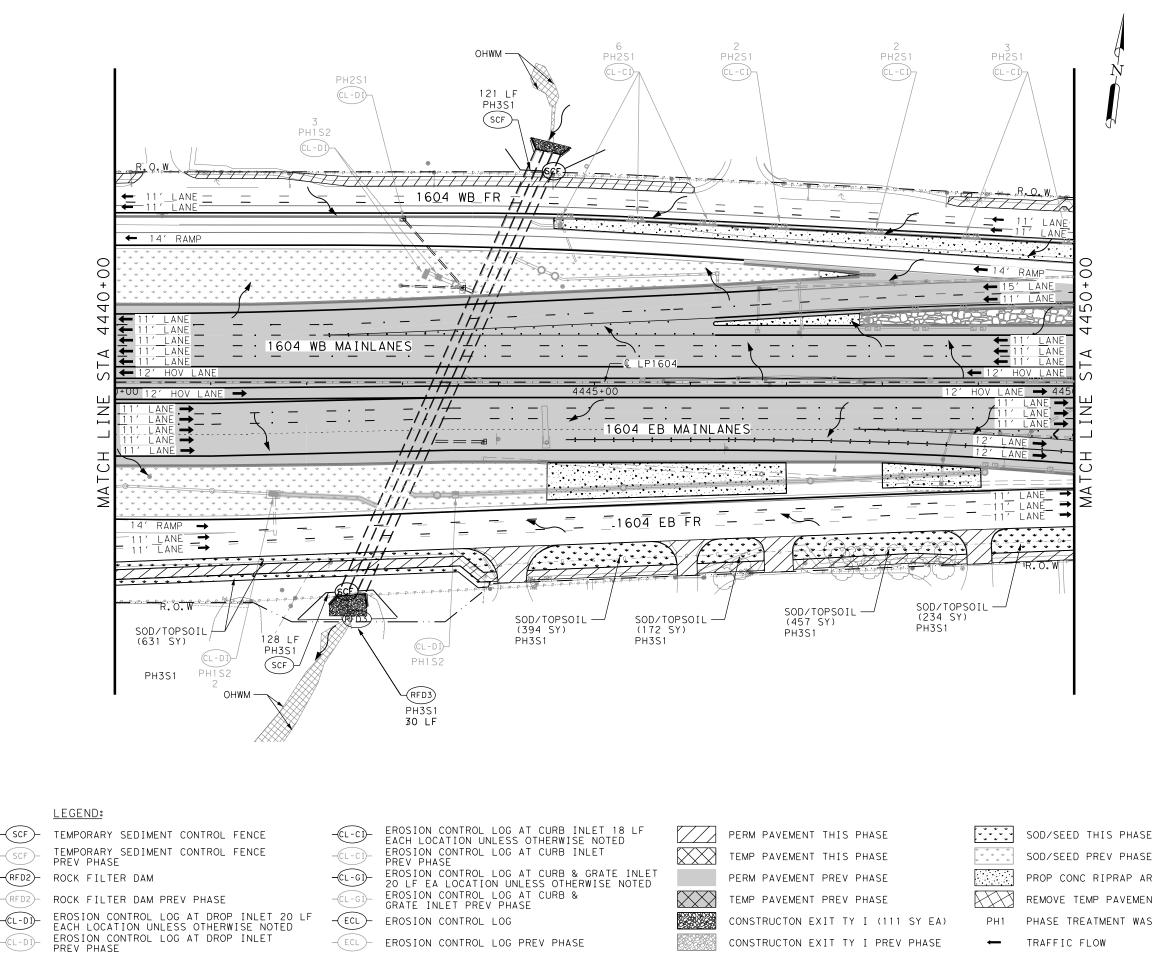


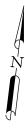
	QUANTITY SUMMARY CSJ 0072-08-130, ETC			
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1499	
162	BLOCK SODDING	SY	1499	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	23.4	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1499	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0	
* F	FOR CONTRACTOR'S INFORMATIO	N OI	VL Y	

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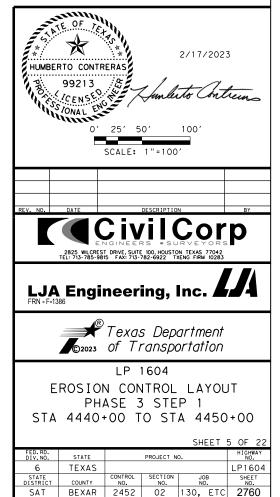
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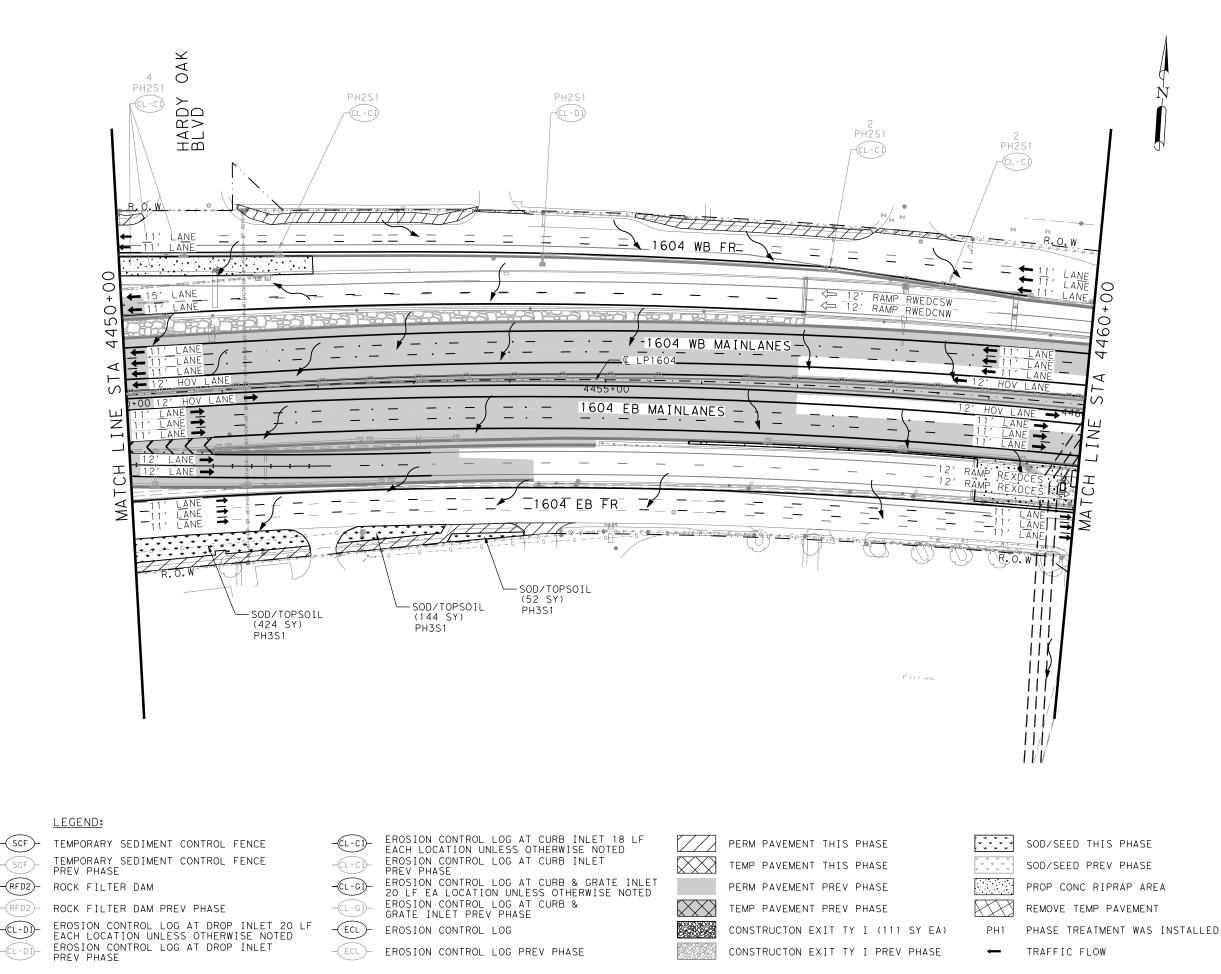




ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1888
162	BLOCK SODDING	SY	1888
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	29.5
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1888
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	70
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	70
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	249
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	249
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0
* f	I FOR CONTRACTOR'S INFORMATI	ON ON	ILY

- 1. REFER TO SW3P NARRATIVE SHEET FOR
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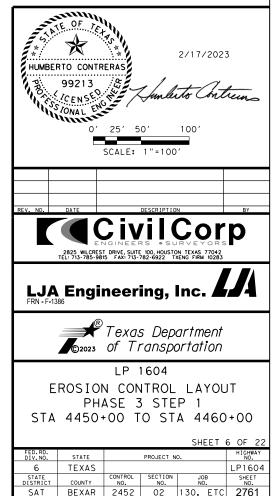
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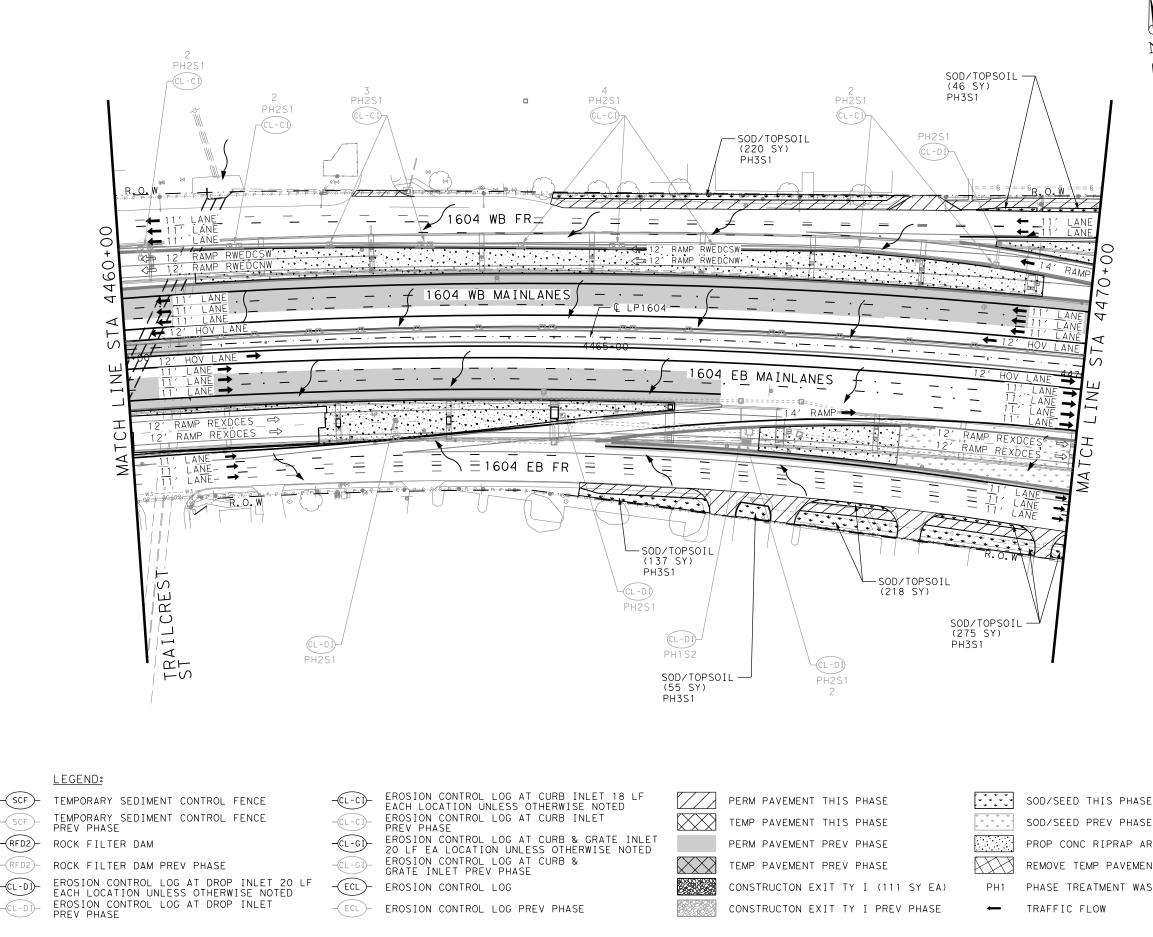
	QUANTITY SUMMARY CSJ 0072-08-130.ET	C	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	620
162	BLOCK SODDING	SY	620
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	9.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	620
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

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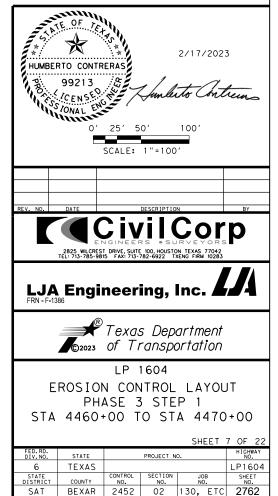




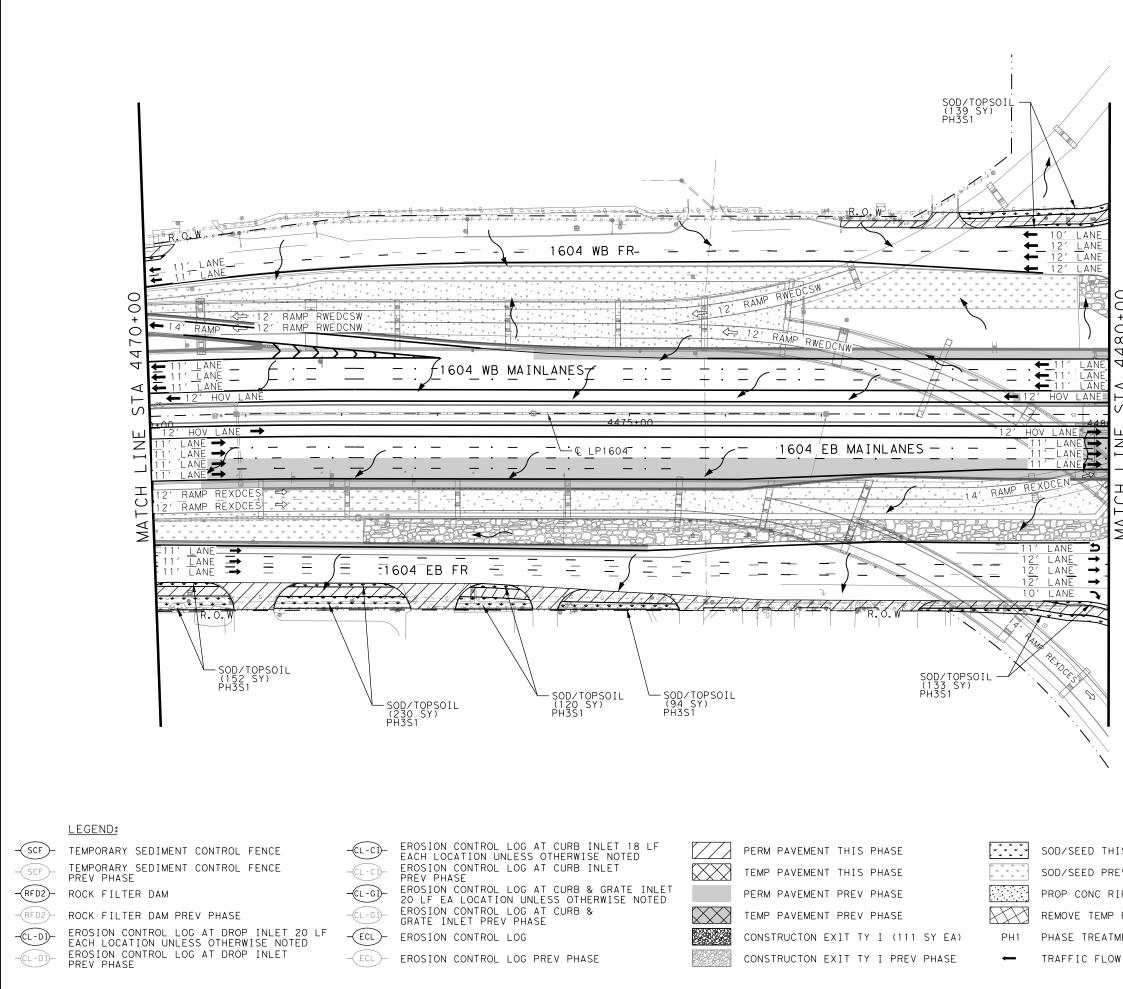
	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	951
162	BLOCK SODDING	SY	951
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	14.8
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	951
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

NOTES:

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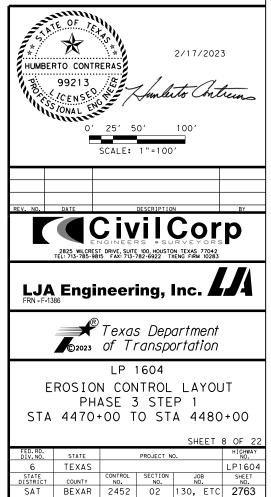
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ITEM	QUANTITY SUMMARY CSJ 0072-08-130,ET DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	868
162	BLOCK SODDING	SY	868
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	13.5
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	868
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

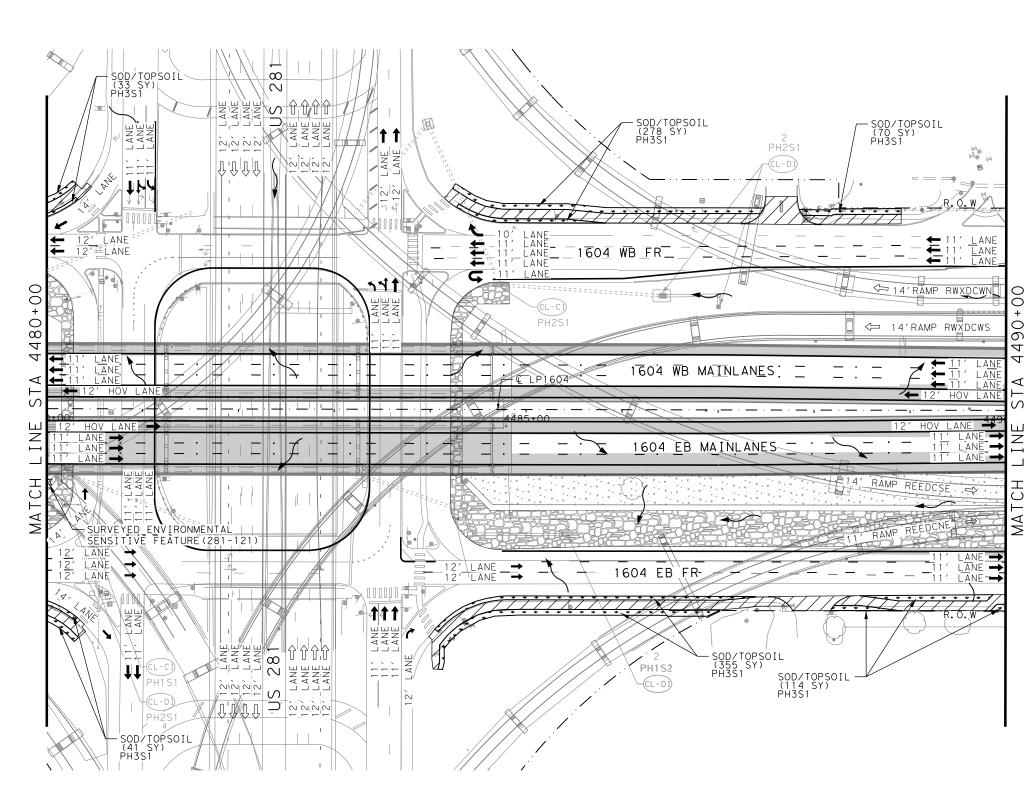
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-(scf) TEMPORARY SEDIMENT CONTROL FENCE TEMPORARY SEDIMENT CONTROL FENCE PREV PHASE -(RFD2)-ROCK FILTER DAM -(RFD2) ROCK FILTER DAM PREV PHASE EROSION CONTROL LOG AT DROP INLET 20 LF -(CL-D])-

EACH LOCATION UNLESS OTHERWISE NOTED EROSION CONTROL LOG AT DROP INLET PREV PHASE

EROSION CONTROL LOG AT CURB INLET 18 LF EACH LOCATION UNLESS OTHERWISE NOTED EROSION CONTROL LOG AT CURB INLET -(cl - cl)--(CL - C Ì) PRFV PHASE

EROSION CONTROL LOG AT CURB & GRATE INLET -(CL - G Ì)-20 LF EA LOCATION UNLESS OTHERWISE NOTED EROSION CONTROL LOG AT CURB & -(CL - G Ì)-GRATE INLET PREV PHASE

-(ECL)-EROSION CONTROL LOG

-(ECL) EROSION CONTROL LOG PREV PHASE



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PERM PAVEMENT THIS PHASE TEMP PAVEMENT THIS PHASE PERM PAVEMENT PREV PHASE



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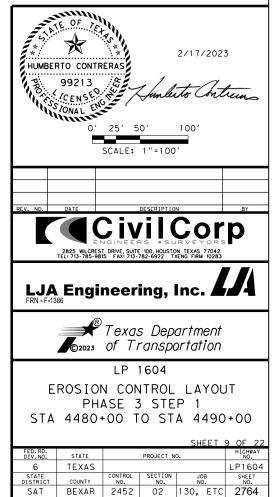


	QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	891		
162	BLOCK SODDING	SY	891		
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0		
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0		
168	VEGETATIVE WATERING	MG	13.9		
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	891		
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0		
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0		
506	ROCK FILTER DAMS (REMOVE)	LF	0		
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0		
506	CONSTRUCTION EXITS (REMOVE)	SY	0		
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0		
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0		
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0		
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0		
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0		
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0		
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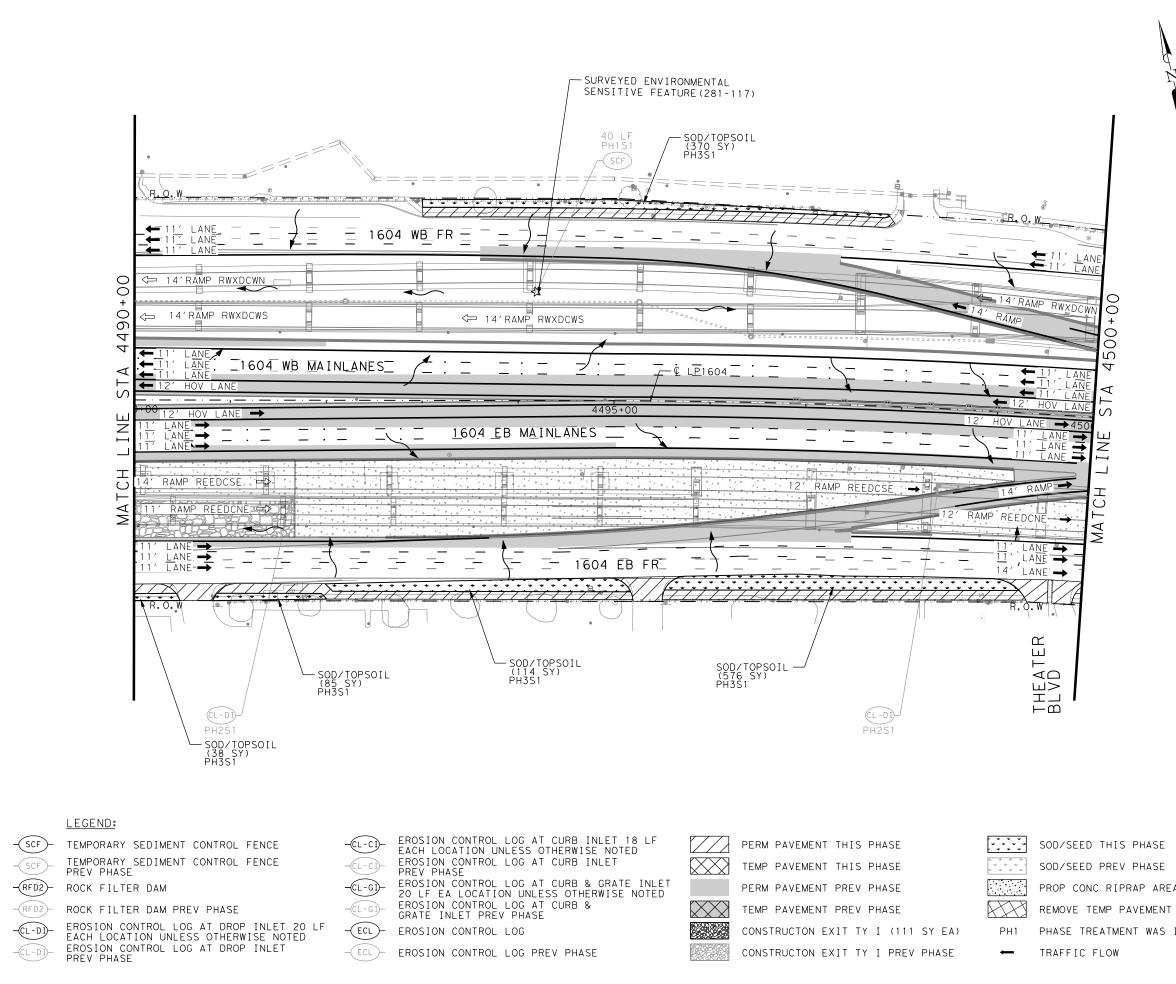
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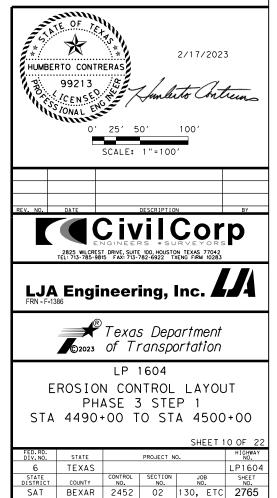
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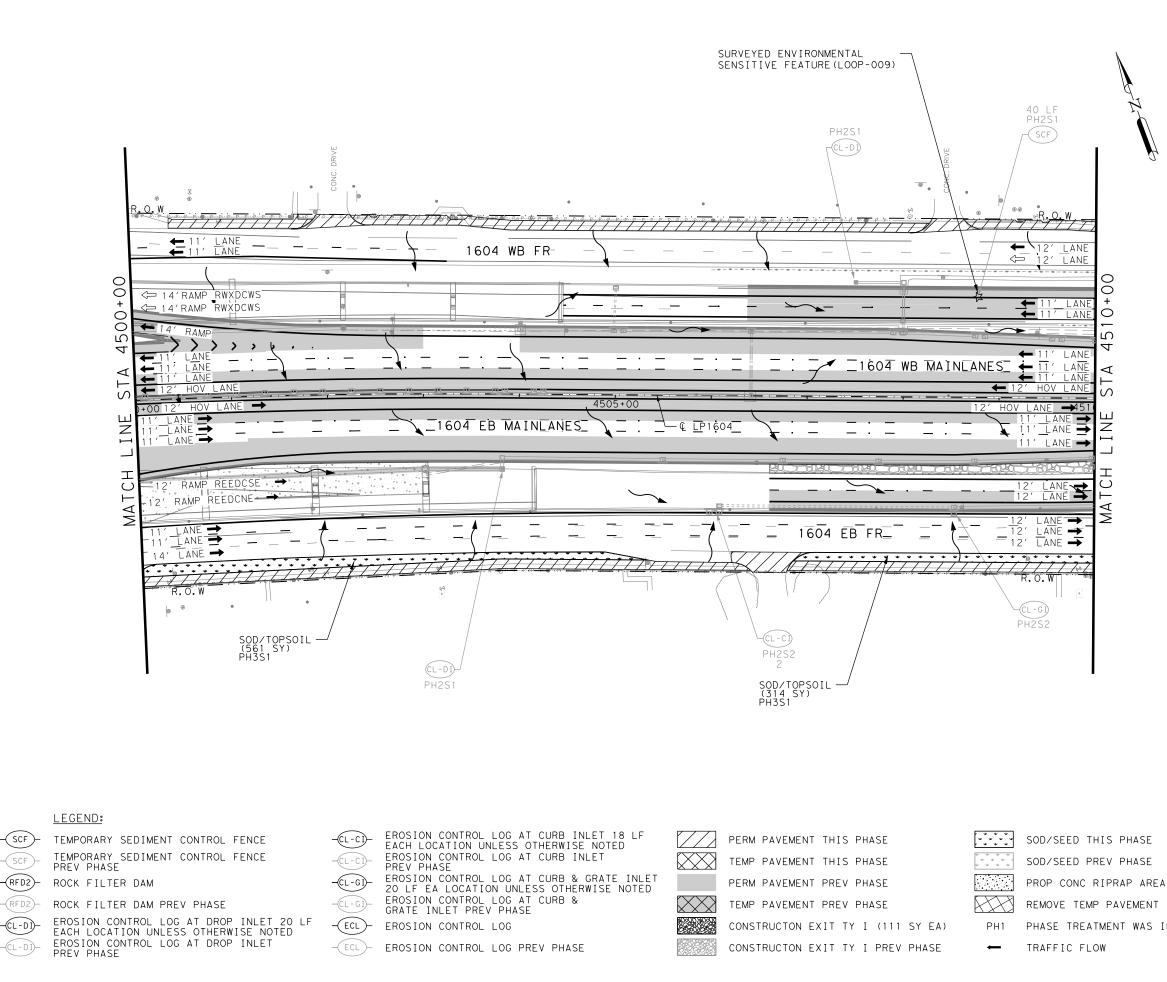


	QUANTITY SUMMARY CSJ 0072-08-130, ET	С	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1183
162	BLOCK SODDING	SY	1183
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	18.5
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1183
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0
* F	FOR CONTRACTOR'S INFORMATIO	N OI	NLY

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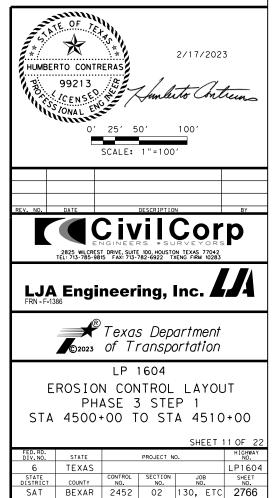




	QUANTITY SUMMARY CSJ 0072-08-130, ET	2	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	875
162	BLOCK SODDING	SY	875
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	13.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	875
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0
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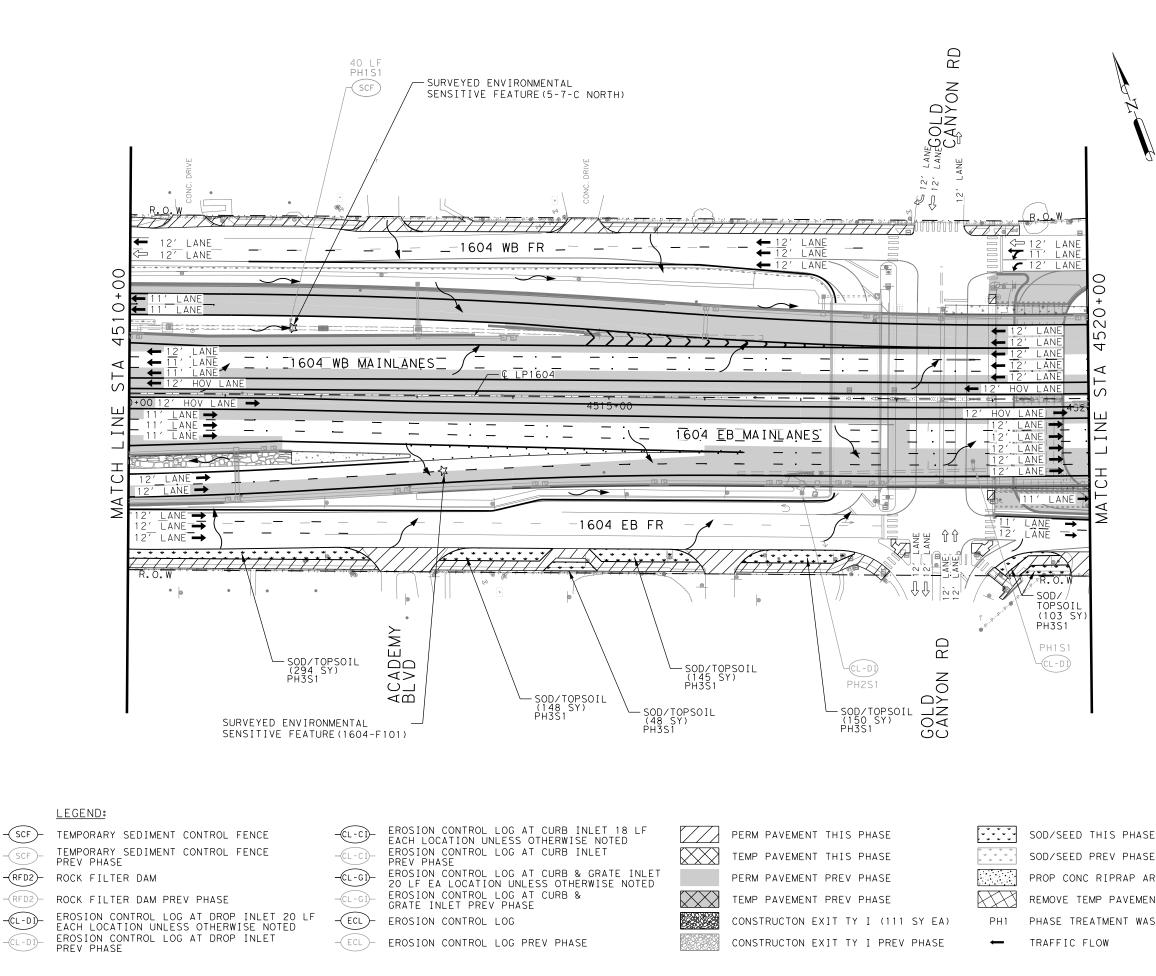
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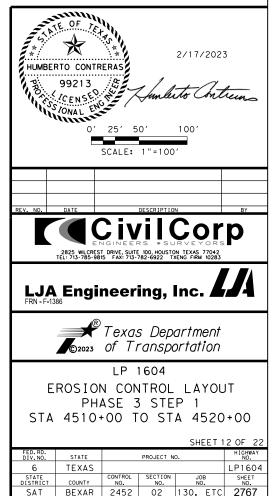


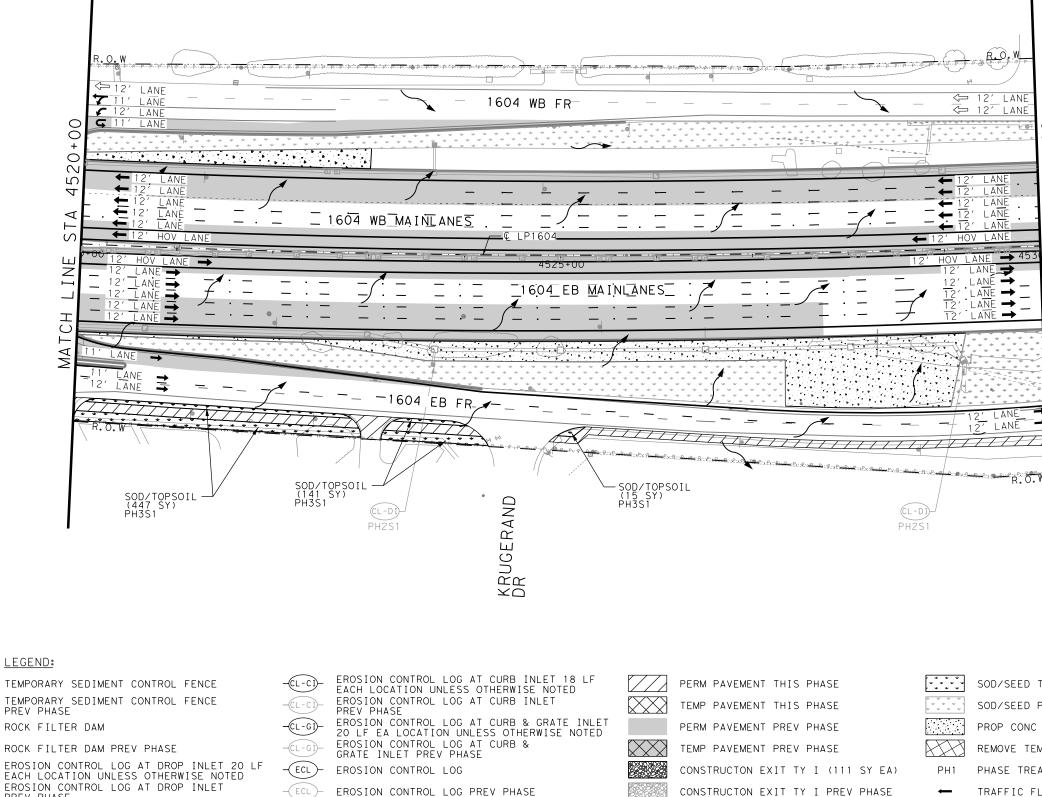


	QUANTITY SUMMARY CSJ 0072-08-130, ET	C	
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	888
162	BLOCK SODDING	SY	888
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	13.9
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	888
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

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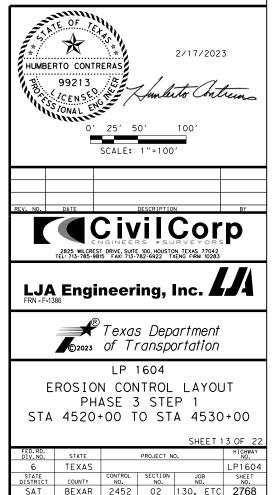
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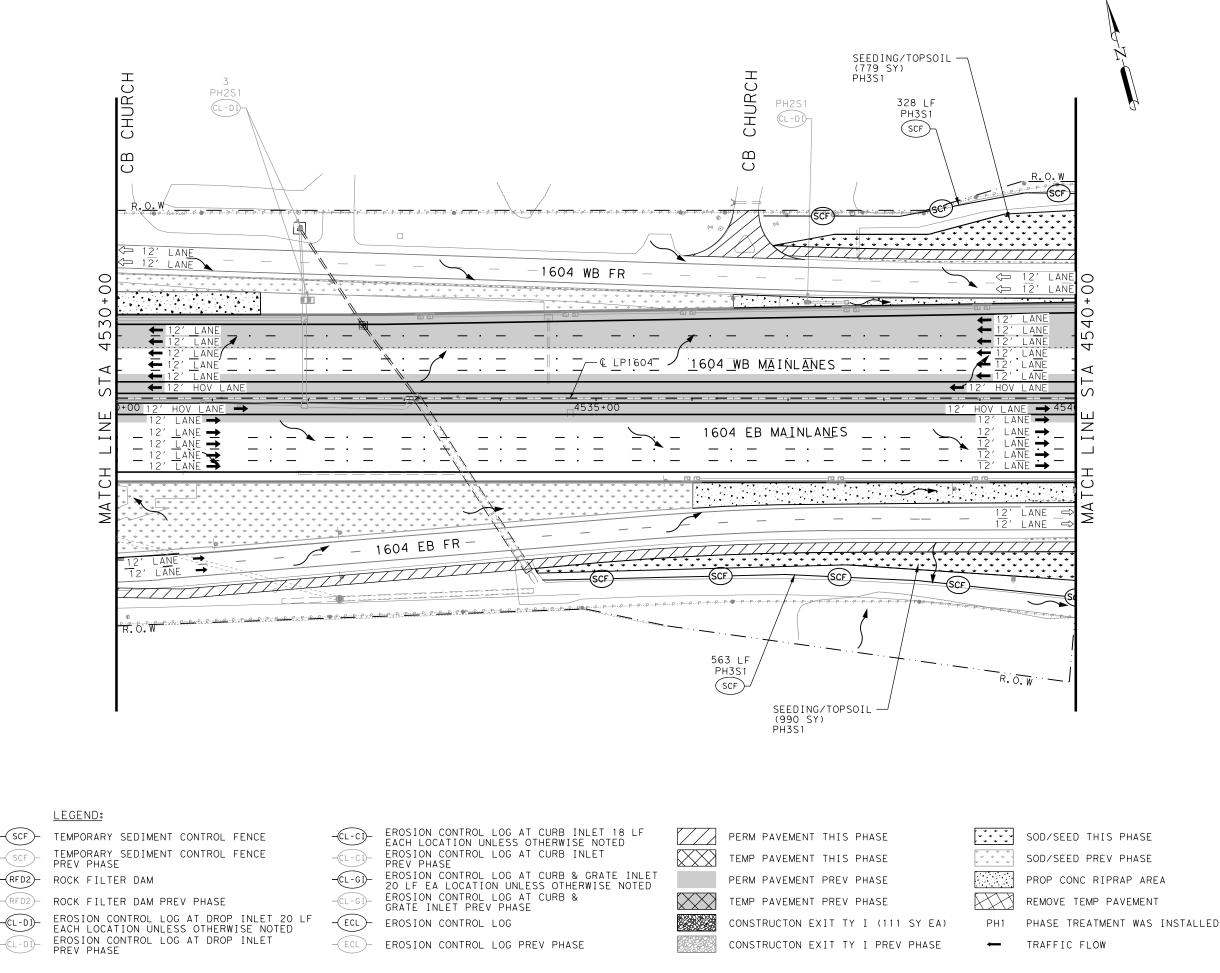
QUANTITY SUMMARY CSJ 0072-08-130,ETC			
ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	603
162	BLOCK SODDING	SY	603
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	9.4
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	603
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0
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NOTE	C.		
NOTES:			

- REFER TO SW3P NARRATIVE SHEET FOR 1.
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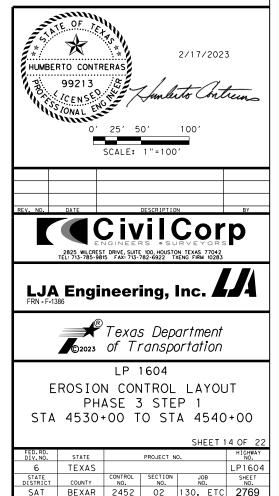
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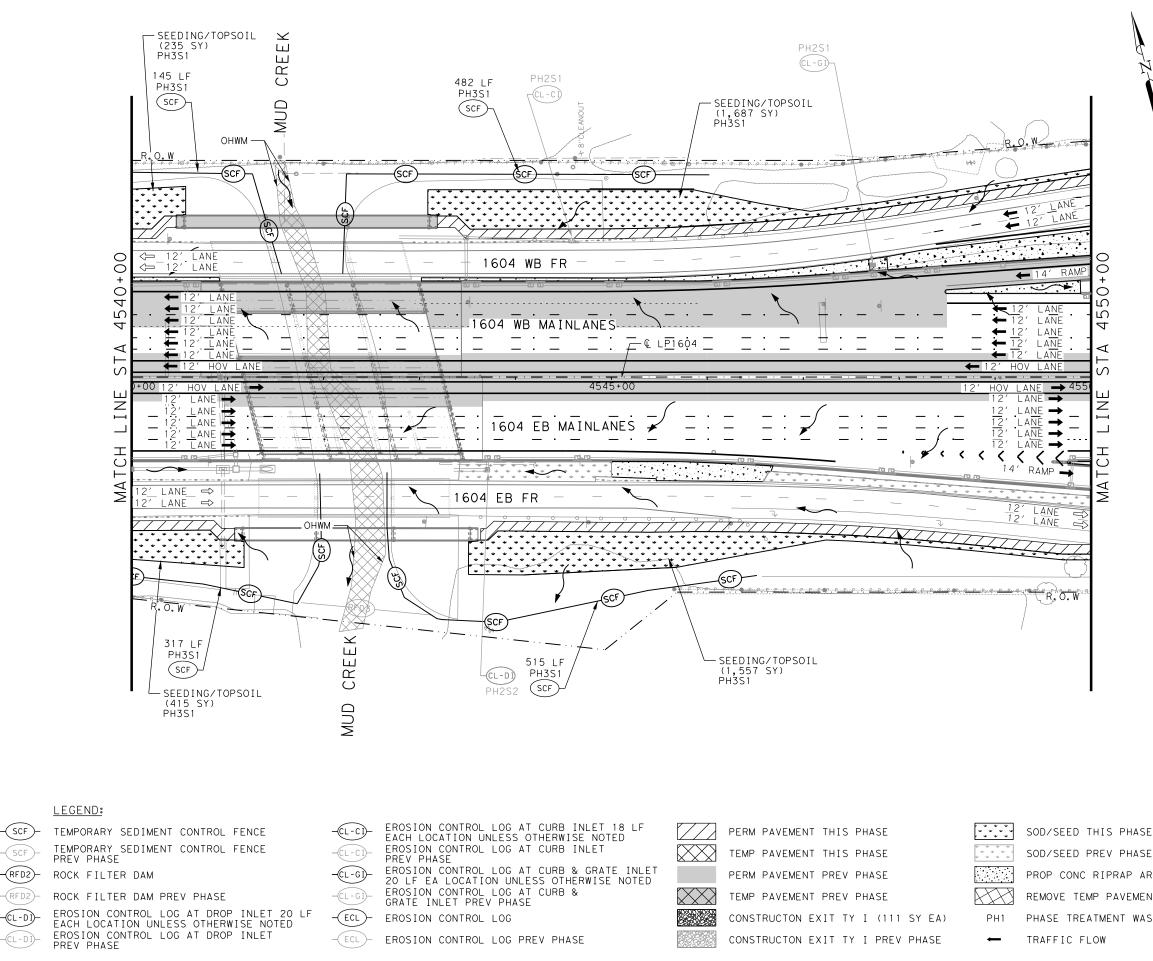
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QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1769	
162	BLOCK SODDING	SY	0	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	27.6	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1769	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	4	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	891	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	891	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0	
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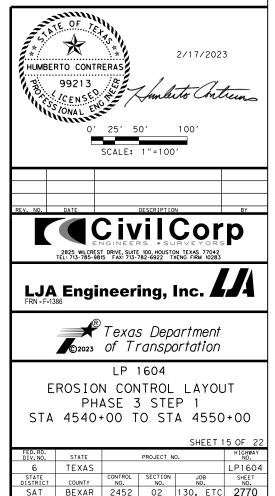


QUANTITY SUMMARY CSJ 0072-08-130, ETC				
ITEM	DESCRIPTION	UNIT	QTY	
160	FURNISHING AND PLACING TOPSOIL (4")	SY	3881	
162	BLOCK SODDING	SY	0	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	60.5	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	3881	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	4	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	1459	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	1459	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0	
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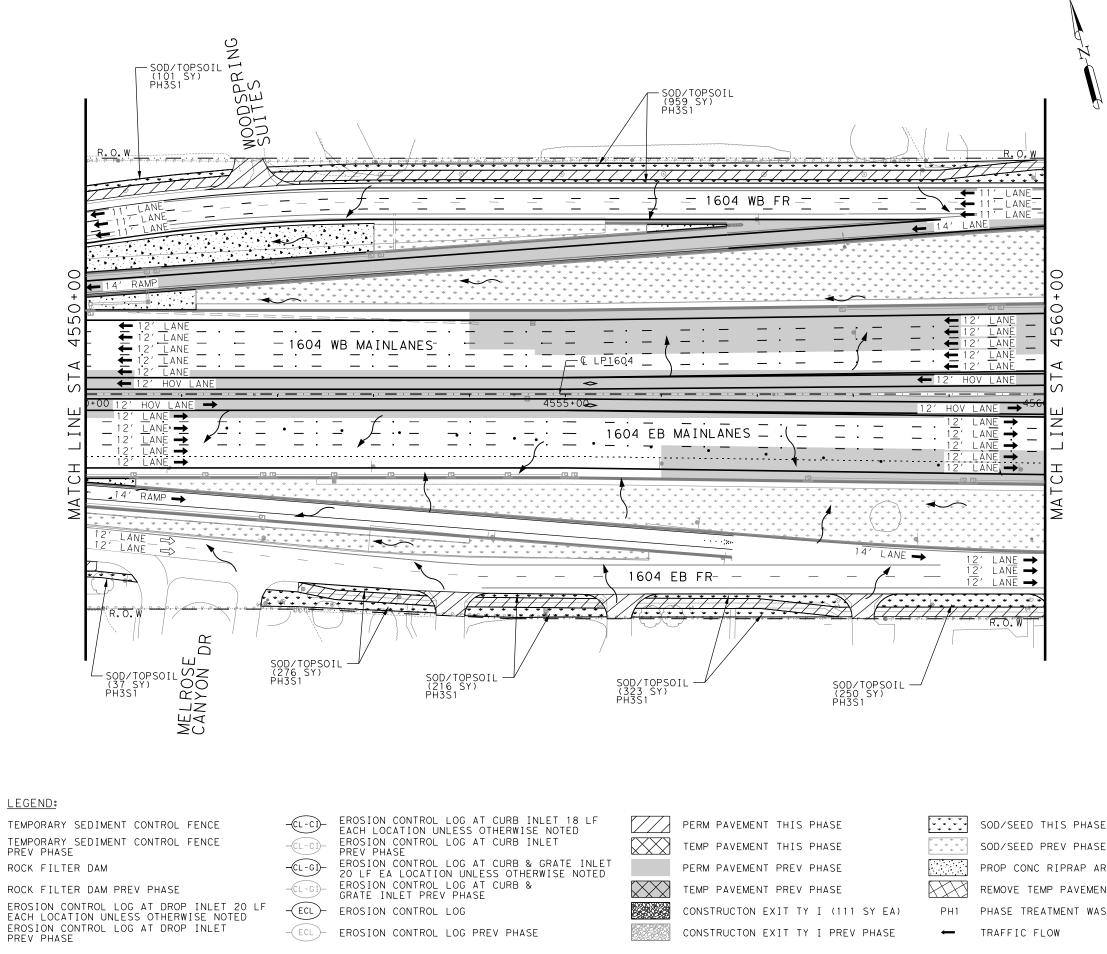
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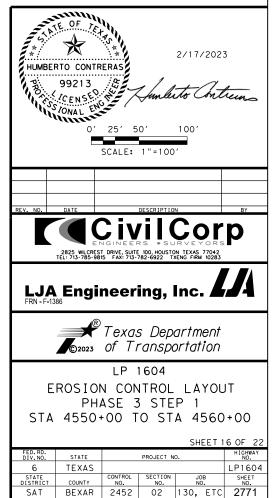
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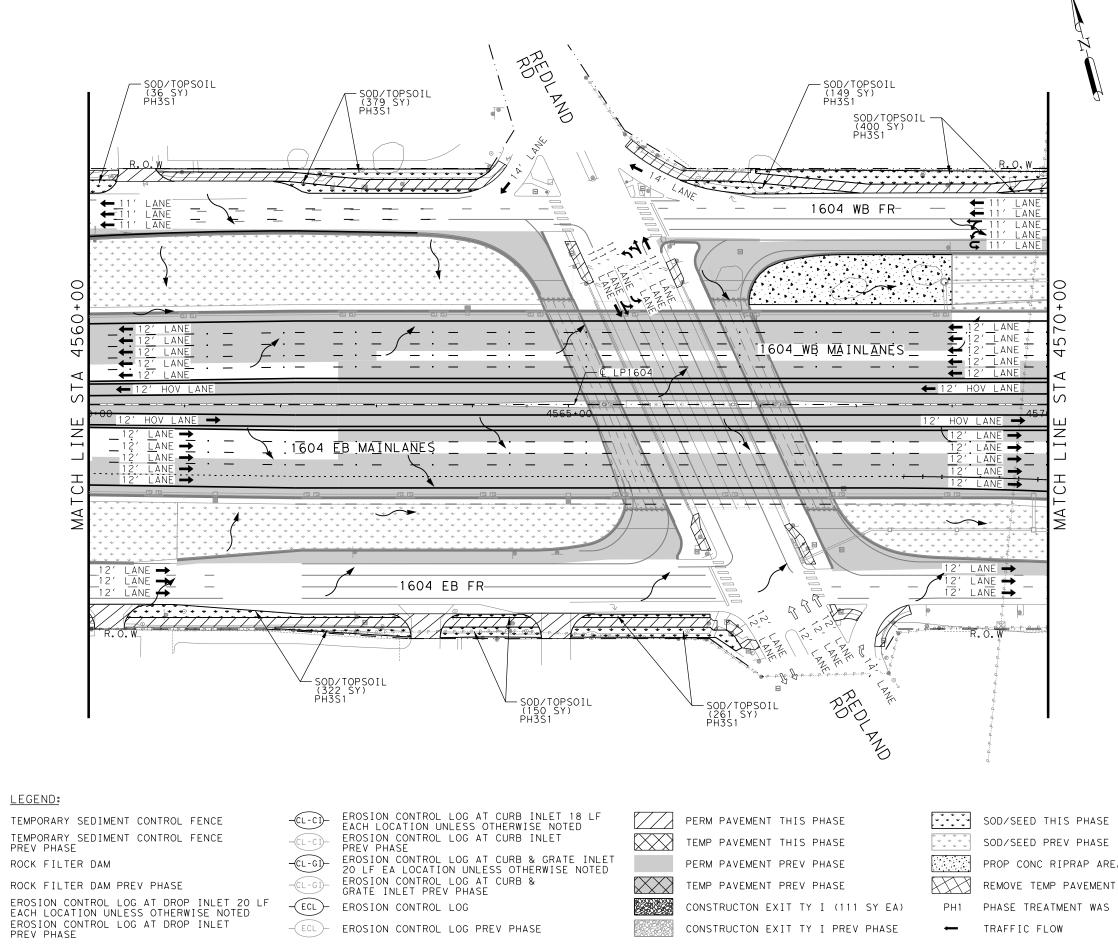
QUANTITY SUMMARY CSJ 0072-08-130, ETC				
		UNIT		
160	FURNISHING AND PLACING TOPSOIL (4")	SY	2162	
162	BLOCK SODDING	SY	2162	
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0	
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0	
168	VEGETATIVE WATERING	MG	33.7	
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	2162	
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0	
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0	
506	ROCK FILTER DAMS (REMOVE)	LF	0	
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0	
506	CONSTRUCTION EXITS (REMOVE)	SY	0	
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0	
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0	
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0	
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0	
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0	
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0	
* F	FOR CONTRACTOR'S INFORMATIO	N ON	V L Y	

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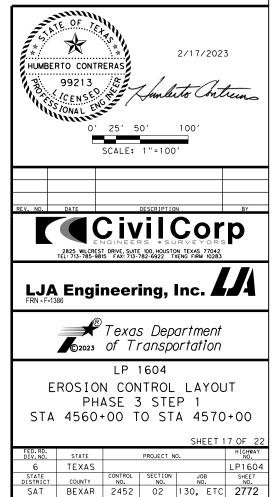


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1697
162	BLOCK SODDING	SY	1697
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	26.5
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1697
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

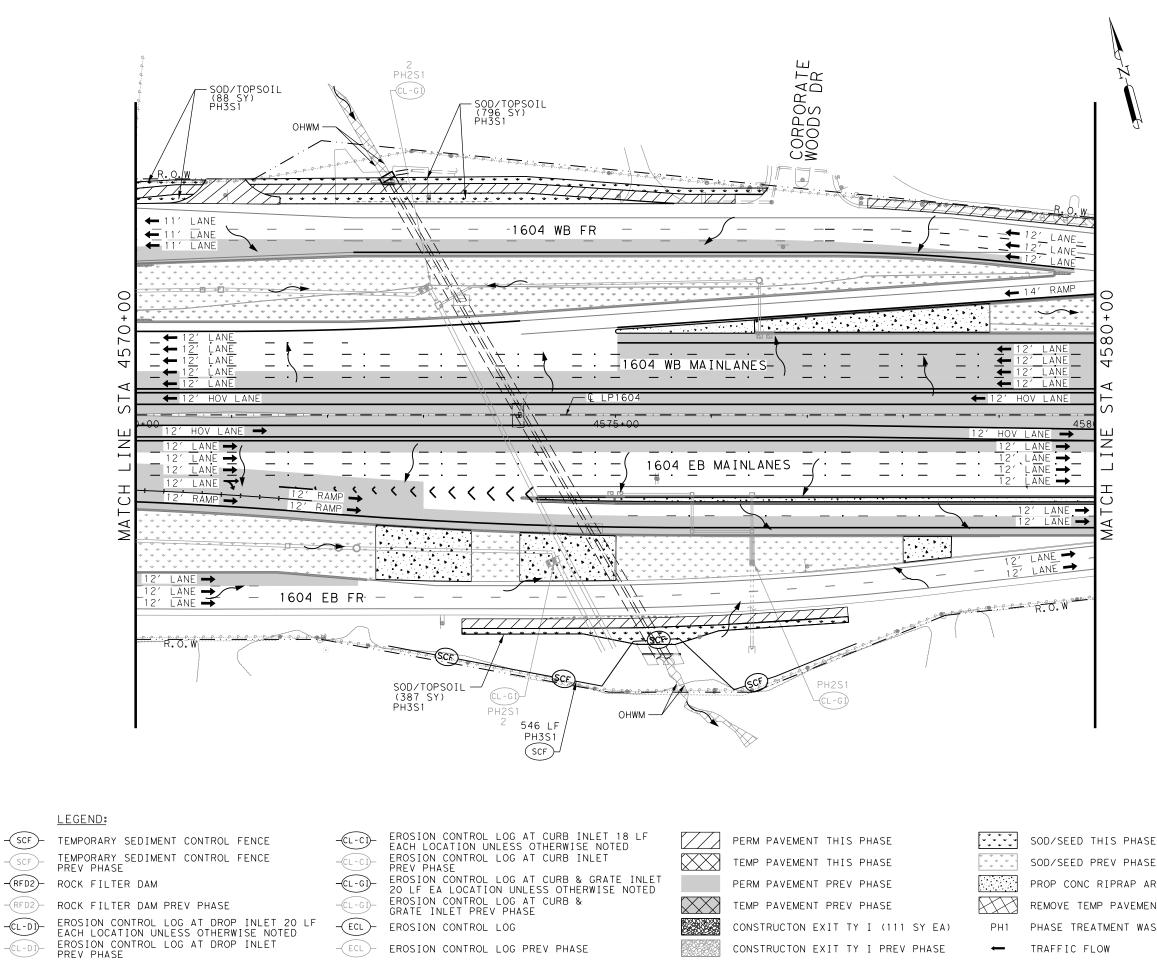
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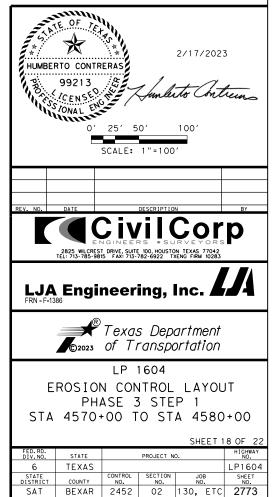


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	1271
162	BLOCK SODDING	SY	1271
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	19.8
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	1271
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	546
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	546
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

* FOR CONTRACTOR'S INFORMATION ONLY

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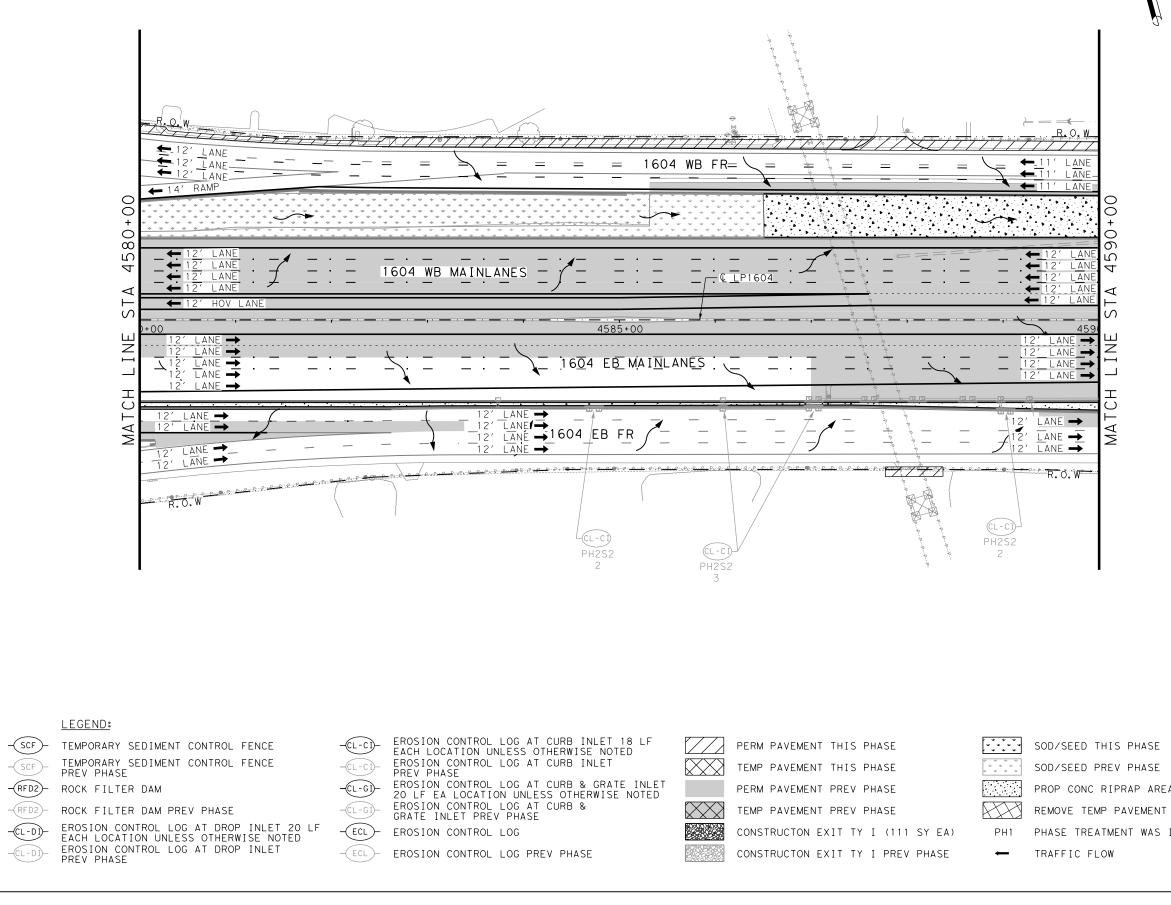
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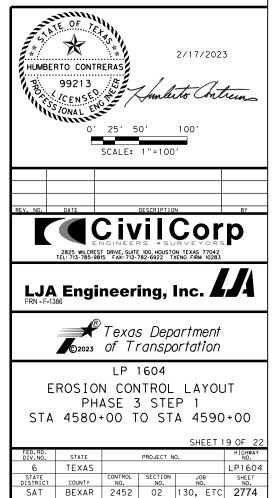


ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0
162	BLOCK SODDING	SY	0
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	0.0
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	0
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

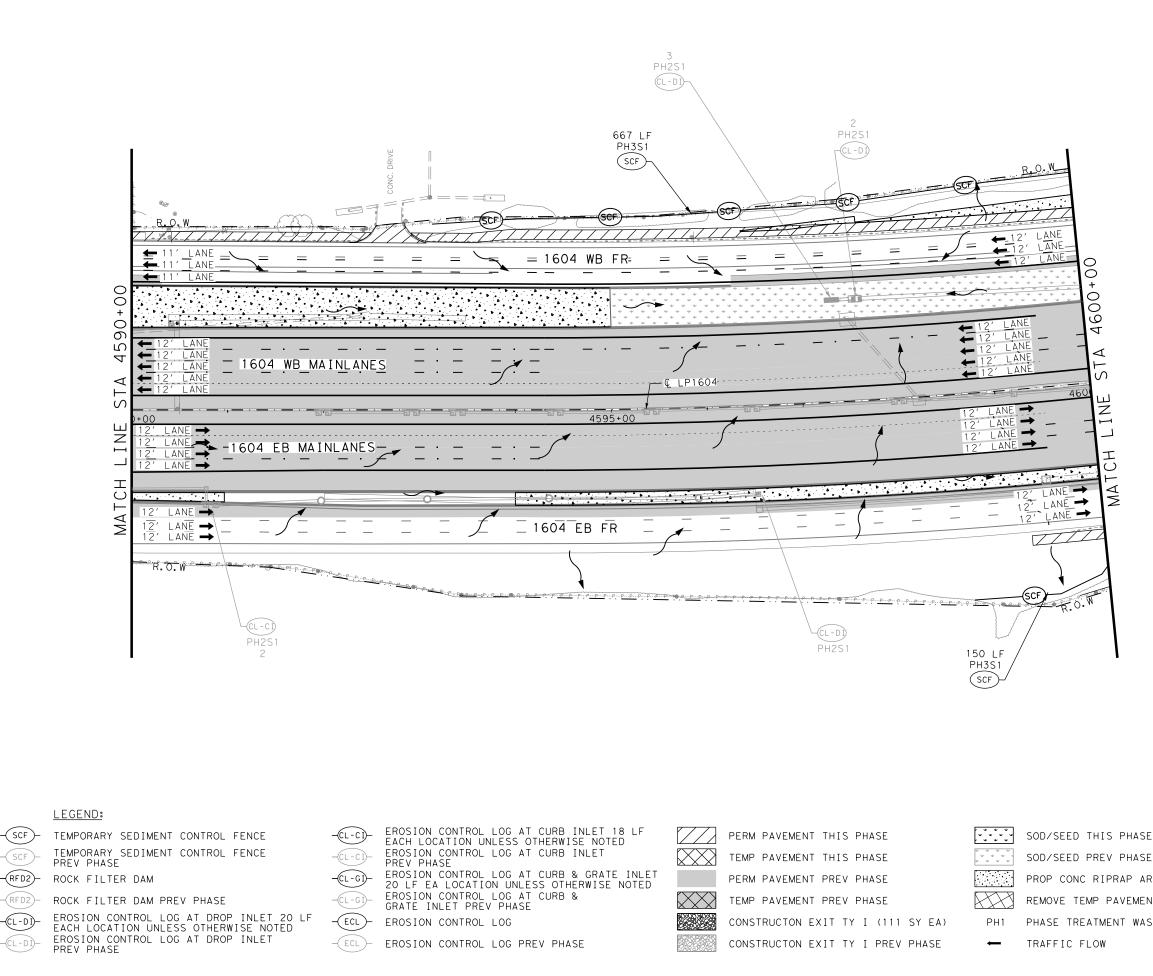
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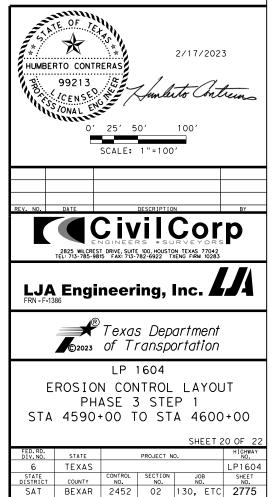


QUANTITY SUMMARY CSJ 0072-08-130, ETC							
ITEM	DESCRIPTION	UNIT	QTY				
160	FURNISHING AND PLACING TOPSOIL (4")	SY	0				
162	BLOCK SODDING	SY	0				
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0				
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0				
168	VEGETATIVE WATERING	MG	0.0				
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0				
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0				
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0				
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0				
506	ROCK FILTER DAMS (REMOVE)	LF	0				
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0				
506	CONSTRUCTION EXITS (REMOVE)	SY	0				
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2				
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0				
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	554				
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	554				
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0				
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0				
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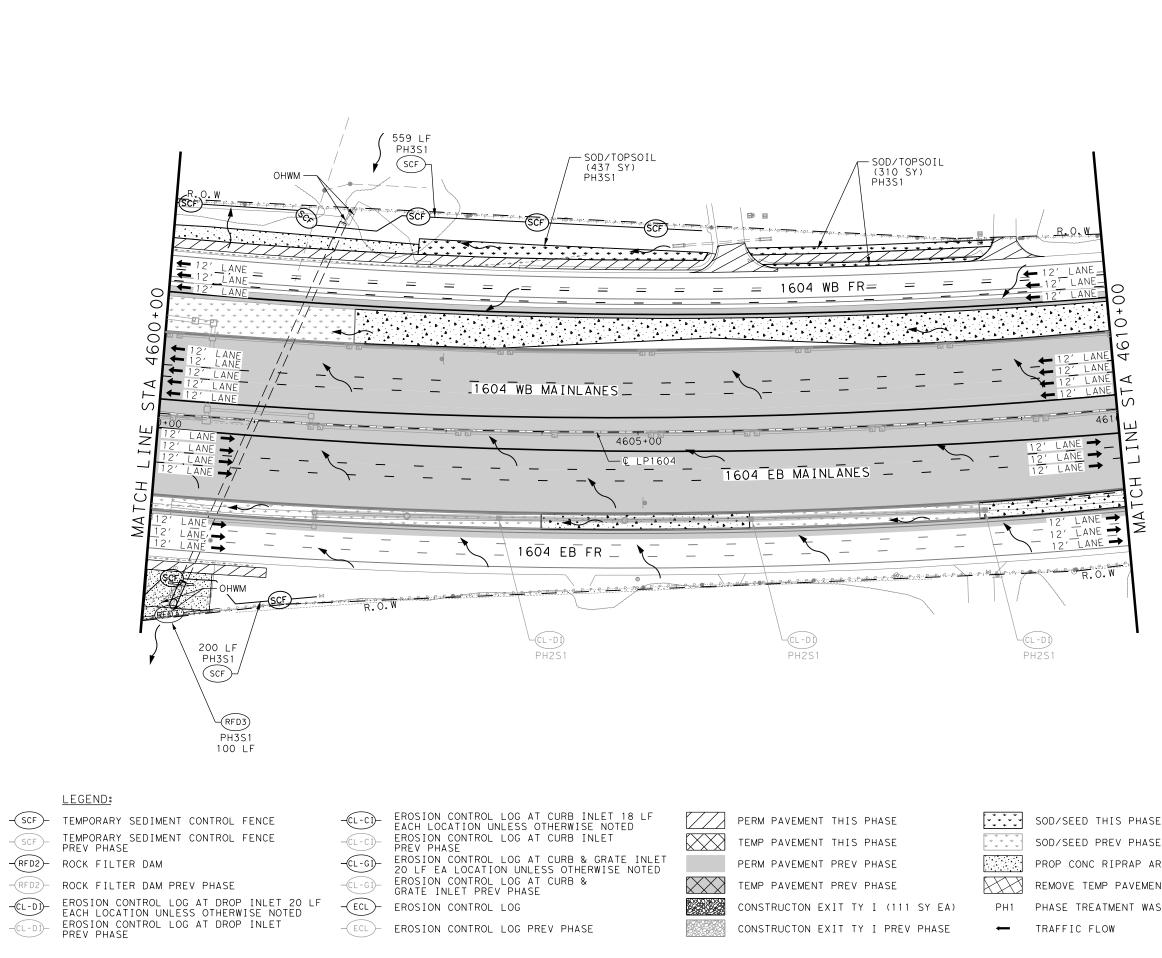
REFER TO SW3P NARRATIVE SHEET FOR 1.

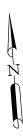
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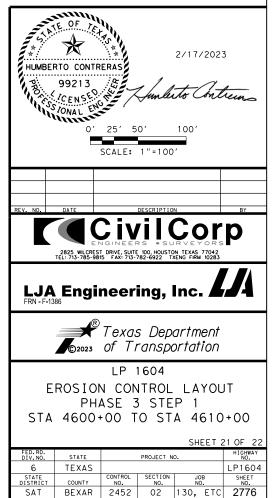
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ITEM	DESCRIPTION	UNIT	QTY
160	FURNISHING AND PLACING TOPSOIL (4")	SY	747
162	BLOCK SODDING	SY	747
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0
168	VEGETATIVE WATERING	MG	11.7
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	747
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	100
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0
506	ROCK FILTER DAMS (REMOVE)	LF	100
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0
506	CONSTRUCTION EXITS (REMOVE)	SY	0
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	2
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	759
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	759
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0

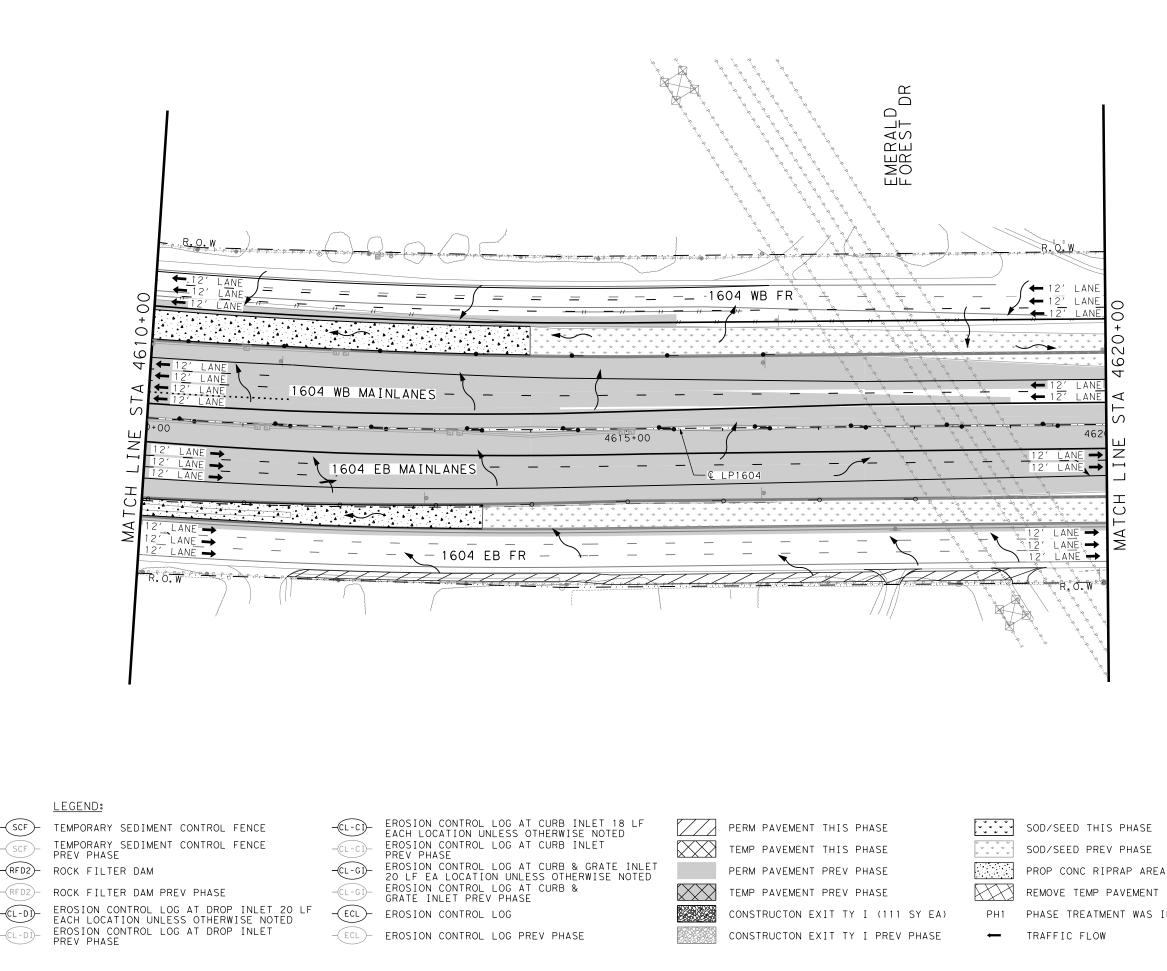
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PROP CONC RIPRAP AREA REMOVE TEMP PAVEMENT PHASE TREATMENT WAS INSTALLED

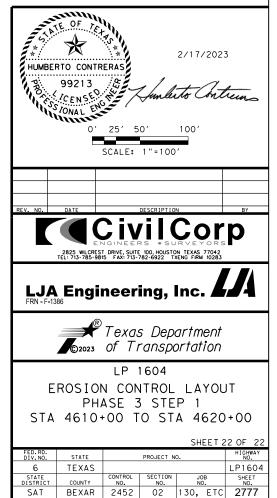


	QUANTITY SUMMARY CSJ 0072-08-130, ETC								
ITEM	DESCRIPTION	UNIT	QTY						
160	FURNISHING AND PLACING TOPSOIL (4")	SY SY	0						
162	162 BLOCK SODDING								
*164	DRILL SEEDING (PERM) (URBAN) (CLAY)	SY	0						
*164	DRILL SEED (TEMP) (WARM OR COOL)	SY	0						
168	VEGETATIVE WATERING	MG	0.0						
169	SOIL RETENTION BLANKETS (CL1) (TY A)	SY	0						
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	0						
506	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	0						
506	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	0						
506	ROCK FILTER DAMS (REMOVE)	LF	0						
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	0						
506	CONSTRUCTION EXITS (REMOVE)	SY	0						
506	BACKHOE WORK (EROSION & SEDMT CONT)	HR	0						
506	SANDBAGS FOR EROSION CONTROL (6")	LF	0						
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	0						
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	0						
506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	0						
506	BIODEG EROSN CONT LOGS (REMOVE)	LF	0						

* FOR CONTRACTOR'S INFORMATION ONLY

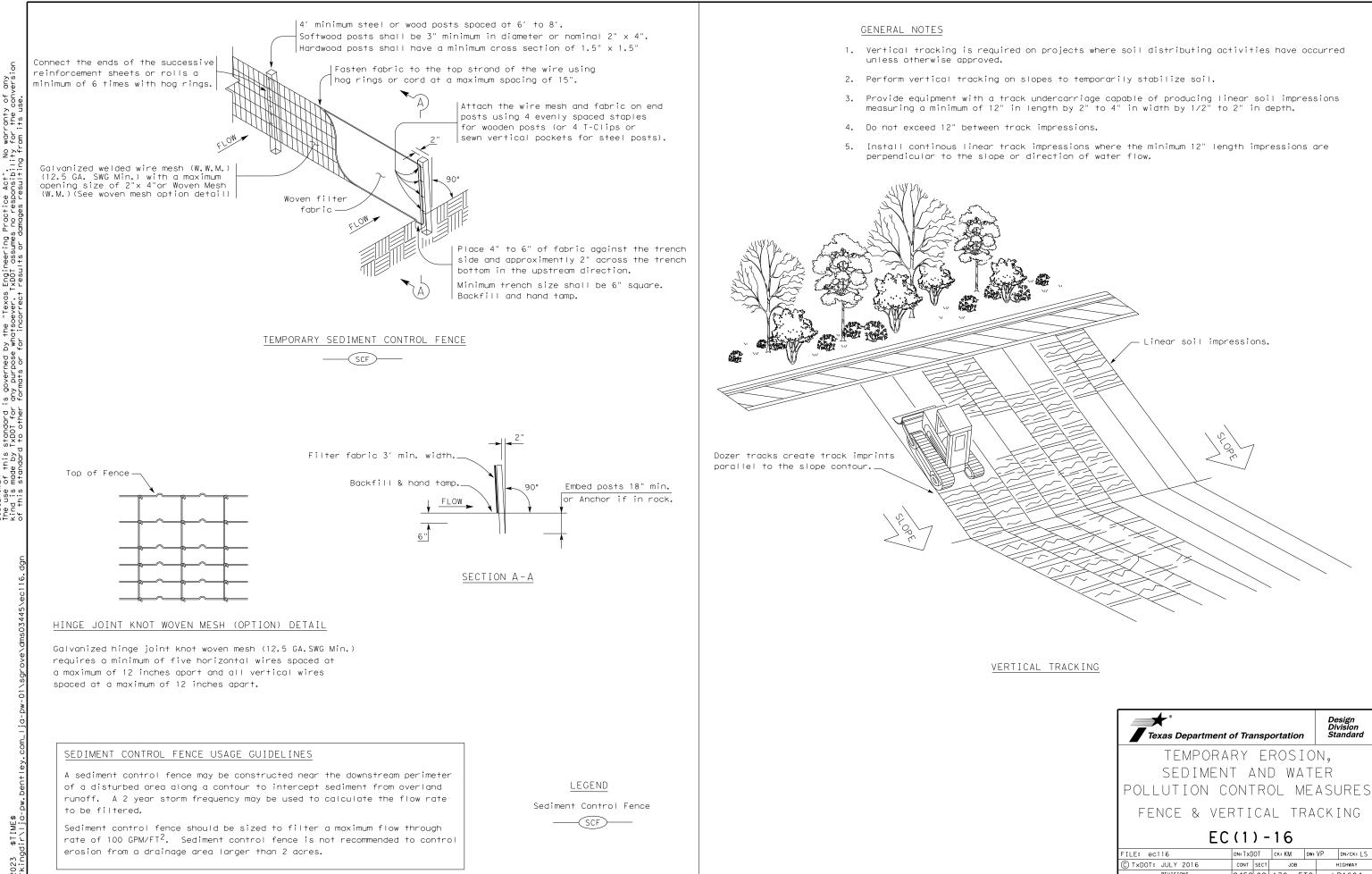
NOTES:

- REFER TO SW3P NARRATIVE SHEET FOR 1.
- ALL STRUCTURES TO BE PLACED WITHIN TXDOT RIGHT OF WAY AND AS SHOWN ON 2. STANDARDS EC(1)-EC(3).
- REFER TO SW3P STANDARD SHEETS FOR 3. DETAILS.
- 4.
- DETAILS. EXISTING STORM DRAINS/CULVERTS ARE SHOWN AS DASHED. INSTALLED MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED THROUGHOUT DURATION OF PROJECT OR 5. AS DIRECTED BY THE ENGINEER. BACKHOE WORK ESTIMATED AT 2 HOURS 6.
- BACKHOE WORK ESTIMATED AT 2 HOUR PER SEDIMENT CONTROL FENCE AND ROCK FILTER DAM INSTALLATION. SW3P MEASURES SHOWN ARE MINIMUM REQUIREMENTS BASED UPON PROJECT DESIGN. INSTALLATION OF SW3P MEASURES WILL BE AS SHOWN AND MODIFIED TO ACCOMMODATE ACTUAL EICLD CONDITIONS 7. FIELD CONDITIONS.
- CONSTRUCTION EXITS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. ALL CONSTRUCTION EXITS WILL BE MOVED AND RESET DURING EACH CONTRUCTION 8. PHASE.



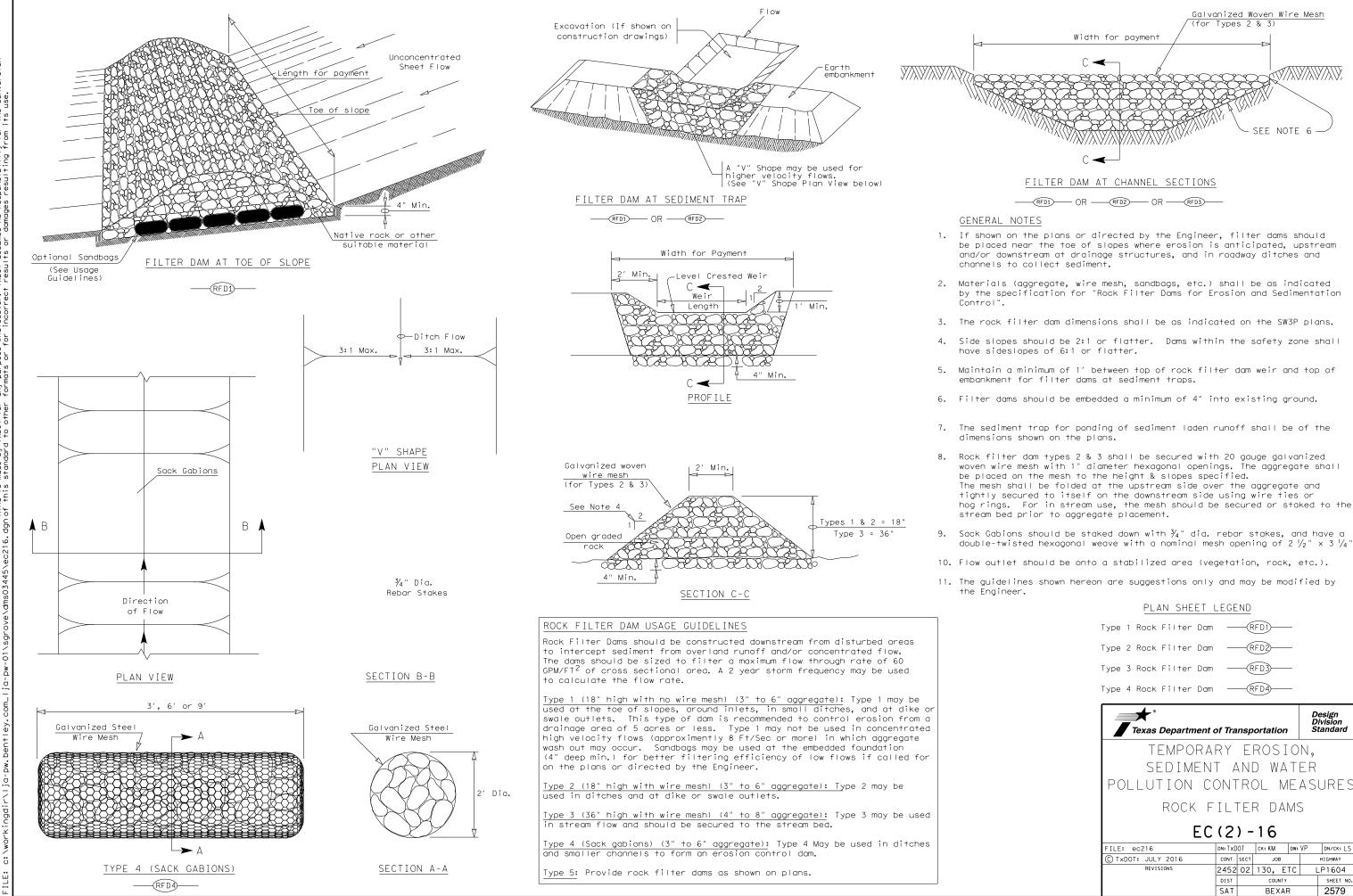
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PHASE TREATMENT WAS INSTALLED



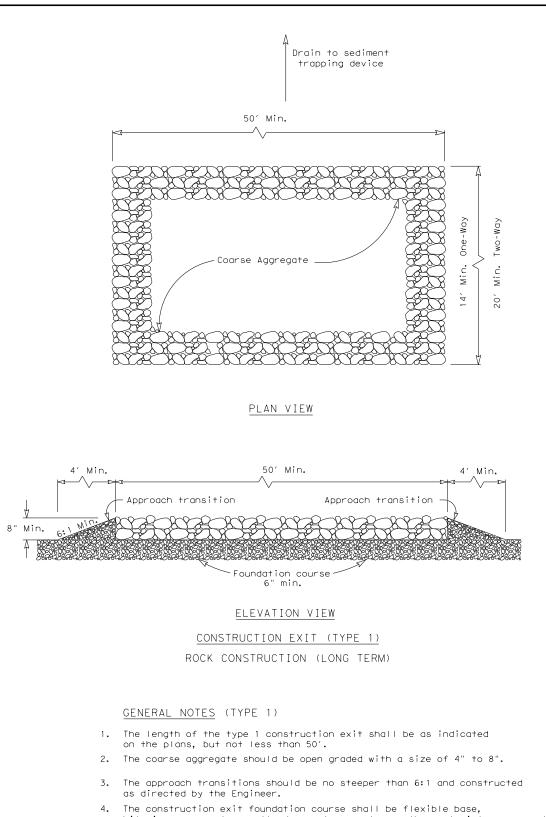
of the t r of a SCLAIMER: Less of this standard is governed by the "Texas Engineering Practice Act". No nd is made by IXD01 for any purpose whotsoever. IXD01 assumes no responsibility this standard to other formats or for incorrect results or damages resulting fr

Texas Department of Transportation						Design Division Standard			
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING									
EC(1)-16									
FILE: ec116	DN: T x [OT	ск:КМ	DW:	VP	DN/CK: LS			
C TxDOT: JULY 2016	CONT	SECT	JO	в		HIGHWAY			
REVISIONS	2452	52 02 130, ETC			C LP1604				
	DIST COUNTY					SHEET NO.			
	SAT BEXAR 2578					2578			

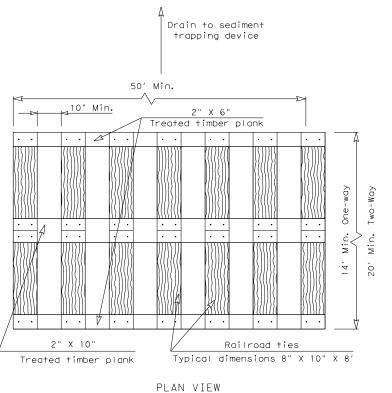


Туре	1	Rock	Filter	Dam	
Туре	2	Rock	Filter	Dam	
Туре	3	Rock	Filter	Dam	
Туре	4	Rock	Filter	Dam	

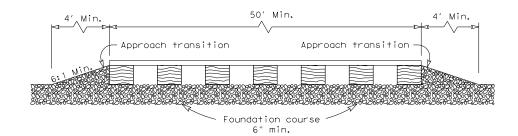
Texas Department of	of Tra	nsp	ortatio	n	DI	esign ivision candard
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES ROCK FILTER DAMS						
EC	EC(2)-16					
FILE: ec216	dn:TxD	OT	ск:КМ	DW:	VP	DN/CK: LS
C TxDOT: JULY 2016	CONT	SECT	JOB			HIGHWAY
REVISIONS	2452	02 130, ETC		TC	L	P1604
	DIST	ST COUNTY				SHEET NO.
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- 4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other materialas approved by the Engineer.
- 5. The construction exit shall be graded to allow drainage to a sediment trapping device.
- 6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- 7. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.



PLAN VIEW



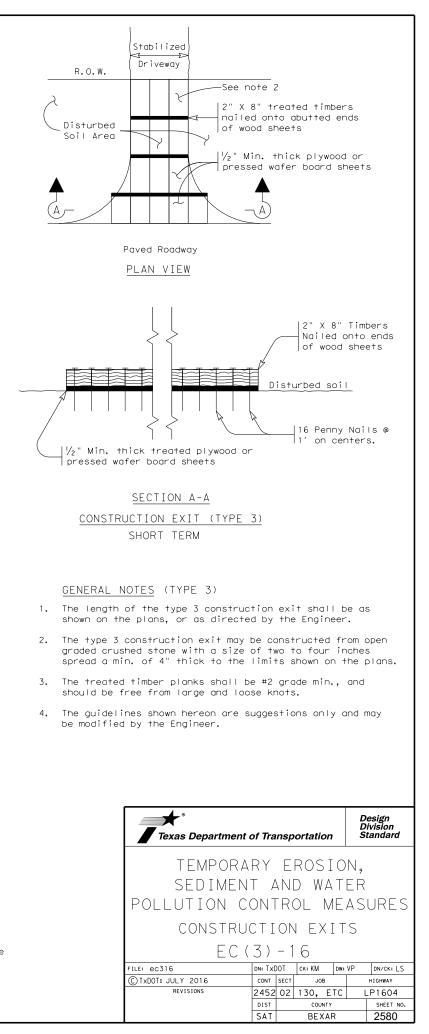
ELEVATION VIEW

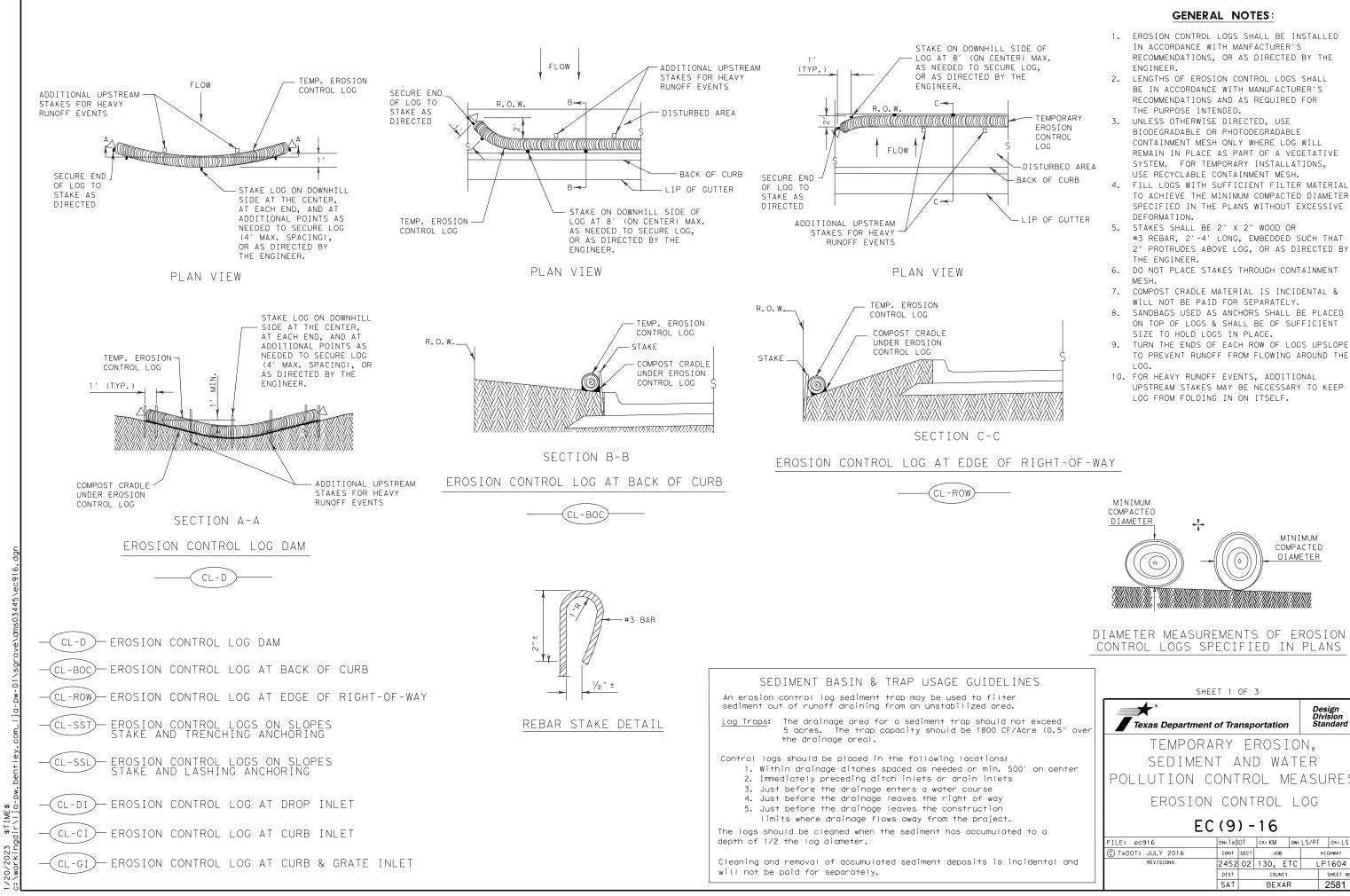
CONSTRUCTION EXIT (TYPE 2)

TIMBER CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 2)

- 1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
- 2. The treated timber planks shall be attached to the railroad ties with $l_2^{\prime} x$ 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
- 3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- 4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
- 5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
- 6. The construction exit should be graded to allow drainage to a sediment trapping device.
- 7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- 8. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.



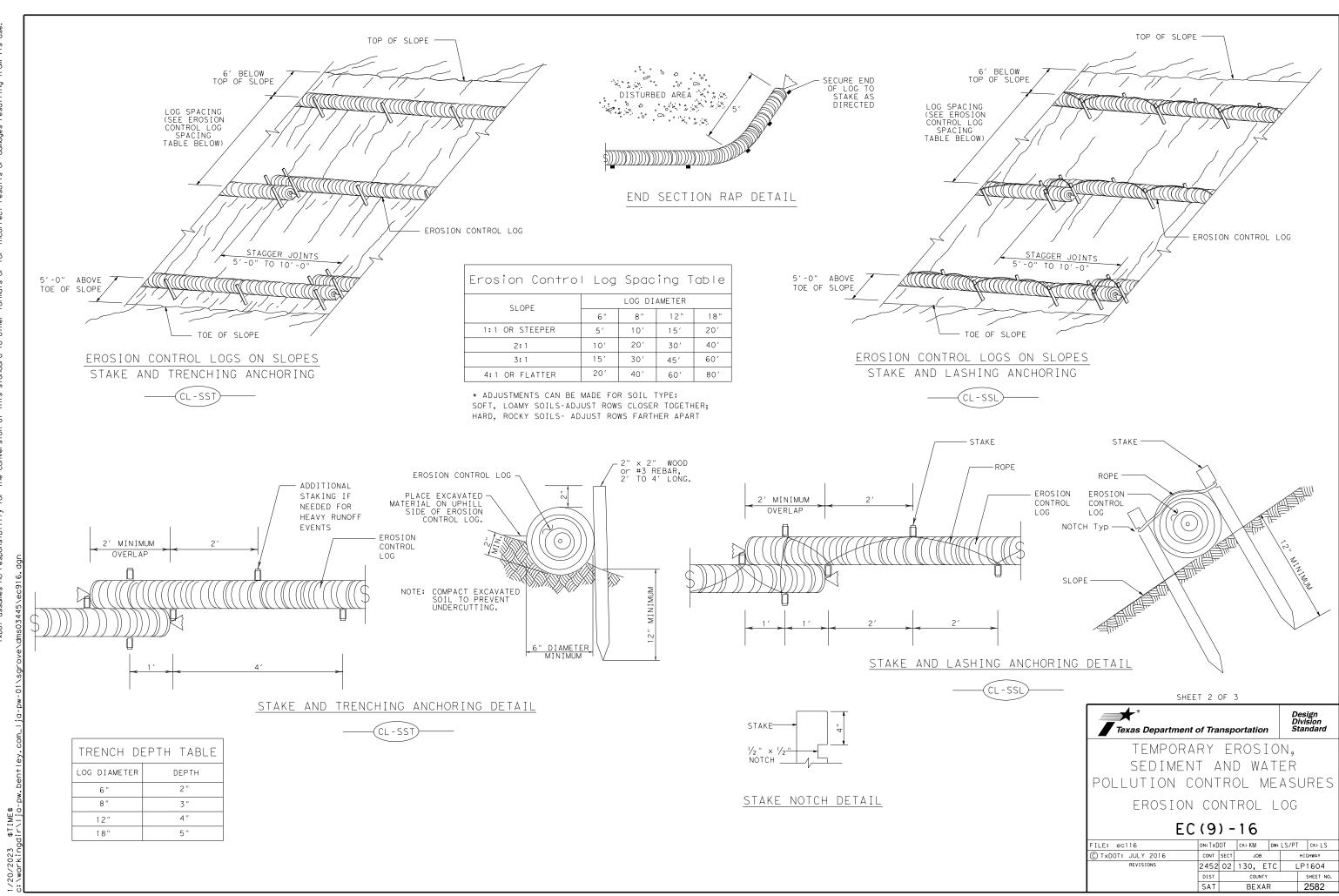


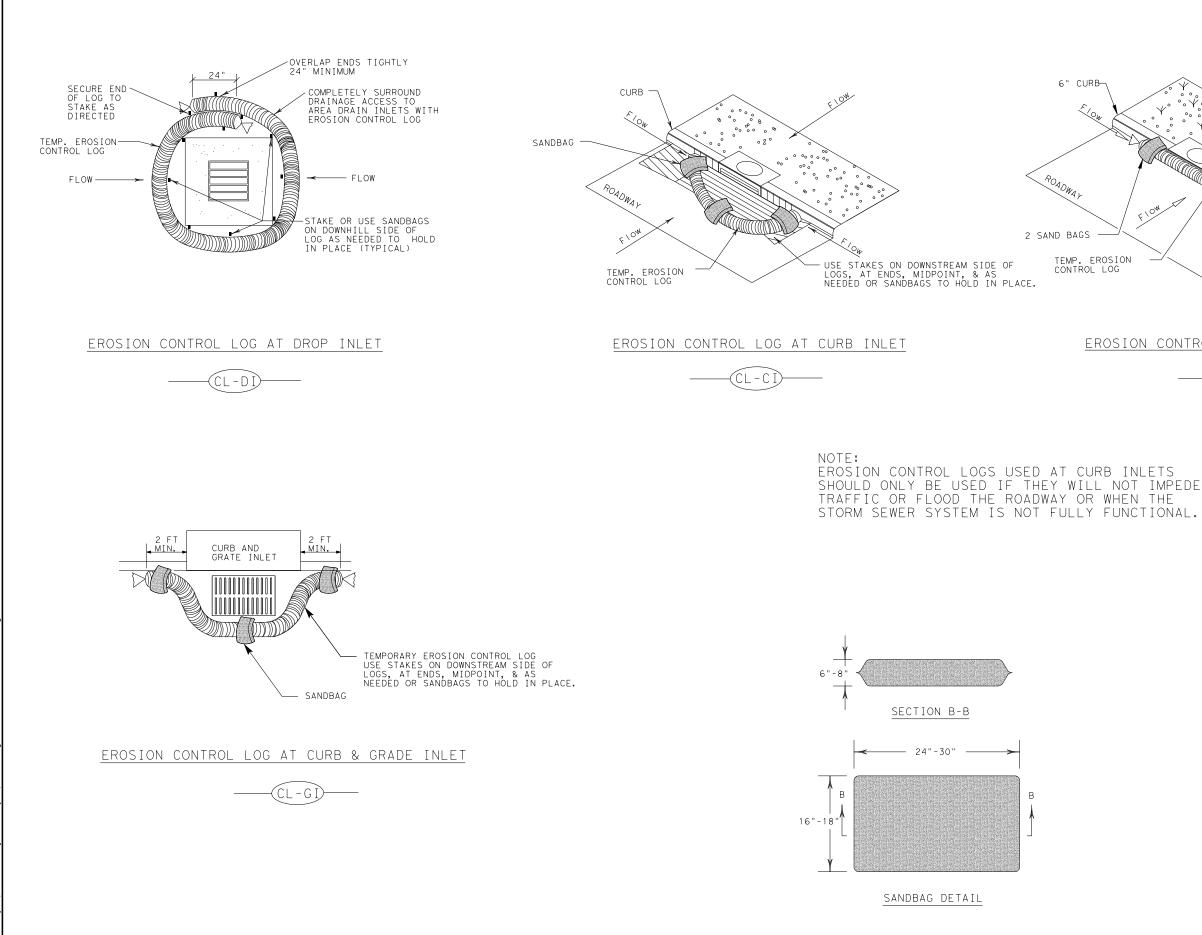
- #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY

- SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT
- TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE
- UPSTREAM STAKES MAY BE NECESSARY TO KEEP

DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

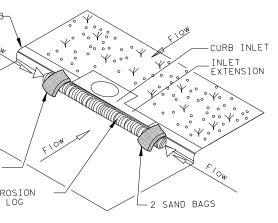
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ilter area.	SHEE	110	JF .	J		Desi	ign
uld not exceed D CF/Acre (0.5" over	Texas Department of	of Tran	nsp	ortation		Divis Star	sion ndard
ons: n. 500' on center lets	TEMPORA SEDIMEN POLLUTION CO	ТΑ	N[) WA	ΤE	Ŕ	RES
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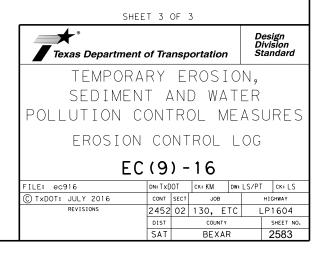
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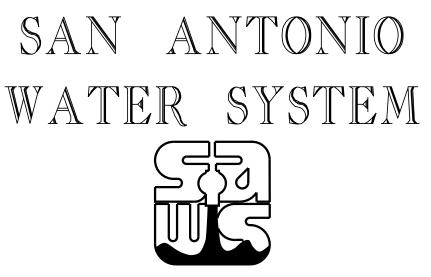
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EROSION CONTROL LOG AT CURB INLET





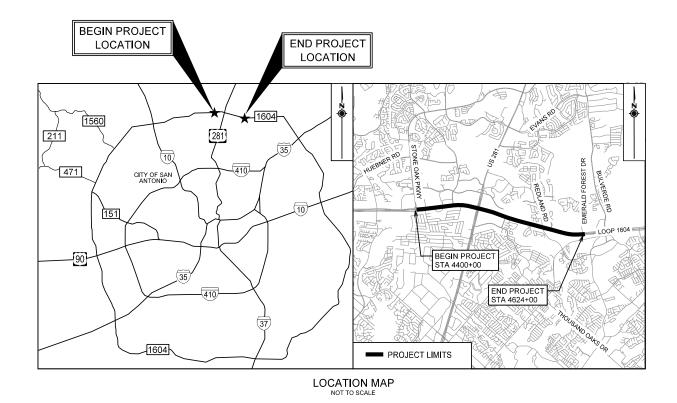


SAWS WATER JOB NO: 22-5017 LOOP 1604 SEGMENT 4 STONE OAK PARKWAY TO EMERALD FOREST CSJ : 2452-02-130

SUBMITTAL PREPARED BY:



K • FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING MULTIC PROJECT ENGINEERING PUBLIC PROJECT ENGINEERING



FEBRUARY 2023



SHEET LIST

SHT NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	QUANTITY SUMMARY TABLE
4	SURFACE ADJUSTMENTS (SHEET 1 OF 5)
5	SURFACE ADJUSTMENTS (SHEET 2 OF 5)
6	SURFACE ADJUSTMENTS (SHEET 3 OF 5)
7	SURFACE ADJUSTMENTS (SHEET 4 OF 5)
8	SURFACE ADJUSTMENTS (SHEET 5 OF 5)
9	DETAILS (SHEET 1 OF 4)
10	DETAILS (SHEET 2 OF 4)
11	DETAILS (SHEET 3 OF 4)
12	DETAILS (SHEET 4 OF 4)



GENERAL NOTES INLE MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS SPECIFICATIONS GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE

- CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS Α.
- ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."
- CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."
- CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
- THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, HTTPS://APPS.SAWS.ORG/BUSINESS_CENTER/SPECS/CONSTSPECS/ 2. UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS
- THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 (DURING REGULAR SAWS WORKING HOURS), AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS TWO (2) WEEKS PRIOR TO EXCAVATION. OUTSIDE OF REGULAR SAWS WORKING HOURS THE SAWS EOC SHOULD BE CONTACTED AT 210-704-7297
- IF NECESSARY, CONTRACTOR WILL COORDINATE USE OF SAWS PREMISES AT NO ADDITIONAL COST TO SAWS. SUCH EFFORTS INCLUDE, BUT ARE NOT 4 LIMITED TO, OBTAINING SECURITY IDENTIFICATION BADGES REQUIRED FOR ACCESS TO SAWS FACILITIES
- LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL 5. LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES PRIOR TO CONSTRUCTION 6 WHETHER SHOWN ON PLANS OR NOT. AS BUILTS FOR SAWS INFRASTRUCTURE CAN BE OBTAINED AT WEBSITE BELOW. CONTRACTOR SHALL COORDINATE PHYSICAL LOCATES FOR SAWS INFRASTRUCTURE THROUGH THE SAWS INSPECTOR. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS INFRASTRUCTURE. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES
 - SAN ANTONIO WATER SYSTEM: REQUEST AS-BUILTS: HTTPS://WWW.SAWS.ORG/SERVICE/LOCATES-SERVICE/ COSA DRAINAGE 210-206-8433 COSA TRAFFIC SIGNAL OPERATIONS 210-207-7720 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.
- CONTRACTOR SHALL NOT MAKE USE OF DUMPSTERS OR WASTE BINS THAT ARE INTENDED TO SERVE RESIDENTS AND/OR BUSINESSES.
- ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE 9. CONSTRUCTION SPECIFICATIONS AND PERMIT
- THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR 10.
- 11. ALL WORK WITHIN THE 100-YEAR FLOODPLAIN SHALL BE DONE IN ACCORDANCE WITH FLOODPLAIN DEVELOPMENT PERMIT.
- 12. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.
- 13. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS.

WEEKEND WORK: CONTRACTORS ARE REQUIRED TO SUBMIT REQUEST TO THE SAWS INSPECTION CONSTRUCTION DEPARTMENT BY 12:00PM ON THE WEDNESDAY PRIOR TO THE WEEKEND BEING REQUESTED. REQUEST SHOULD BE SENT TO CONSTWORK REQ @SAWS ORG

ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION AT NO COST TO SAWS

- PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS (NSPI). 14.
- POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. 15. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLIES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS
- 16. CONSTRUCTION SEQUENCING: IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SCHEDULE SEQUENCING FOR REMOVAL AND INSTALLATION OF EXISTING AND PROPOSED SAWS UTILITIES IN CONJUNCTION WITH GENERAL PROJECT CONSTRUCTION. SEQUENCE OF CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED IN ORDER TO MINIMIZE THE EXTENT AND DURATION OF DISTURBANCES.
- 17. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS INCLUDING, BUT NOT LIMITED TO THOSE OVERSEEN BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA INFORMATION AND RELATED MATERIALS MAY BE OBTAINED AT HTTPS://WWW.OSHA.GOV/ OR AT THE OSHA SAN ANTONIO OFFICE LOCATED AT FOUNTAINHEAD TOWER, SUITE 605 8200 W. INTERSTATE 10 SAN ANTONIO, TX 78230 WHICH IS ALSO REACHABLE BY PHONE AT (210) 472-5040
- TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND 18. THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREAS IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION
- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS INSPECTION AND/OR SAWS 19. PRODUCTION GROUPS AT LEAST TWENTY-FIVE (25) CALENDAR DAYS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS. THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY. SAWS PRODUCTION CONTROL CENTER 210-233-2016
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAYBE 20. LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS, PAYMENT FOR SUCH WORK IS TO BE MADE UNDER ITEM NO. 3000, "HANDLING

AC PIPE REMOVED ON CONSTRUCTION PROJECTS FOR TIE-IN(S) SHOULD BE IN LENGTH OF 26 LINEAR FEET (LF). IENGTHS OF 13 LF SHOULD BE REMOVED WHERE AC PIPE IS BEING REMOVED AND CROSSING PIPES, CONDUITS, OR BOXES.

VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)

WATER SECTION 22. DIVISION VALVES: DIVISION VALVES SHWON ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTFICATION TO THE INSPECTOR A MINIMUM OF TWENTY-FIVE (25) CALENDAR DAYS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF, THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREAK OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALAVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VLAVE CAN TAKE SEVERAL WEEKS FOR APPROVAL, DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF

CPS ENERGY NOTES CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-545-6005. 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192, 181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES, THE CONTRACTOR 2
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO 3. WORK AREAS
- CONTRACTOR TO FIELD VERIFY THE DEPTH OF GAS MAINS BEFORE BEGINNING OF CONSTRUCTION.

MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN PROJECT AREA.

CONTACT GREGORY LEE FROM CPS INSPECTIONS AT (210) 353-5285 AT LEAST 48 HOURS PRIOR TO UNCOVERING THE HIGH PRESSURE GAS MAIN SO 5. CPS CAN VISUALLY INSPECT THE LINE

AT&T NOTES

- THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE
- 2. THE CONTRACTOR SHOULD CALL FOR LOCATES THROUGH THE "ONE CALL" UTILITY LOCATE SERVICE (1-800-545-6005) 48 HOURS PRIOR TO CONSTRUCTION/EXCAVATION WORK, CONTRACTORS HAVE THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION

NOTES:

- CONTRACTOR SHALL RESTRAIN PROPOSED PIPES, VALVES AND FITTINGS AT NO ADDITIONAL COST (RL=RESTRAINT LENGTH)
- CONTRACTOR TO MAINTAIN WATER SERVICE CONNECTIONS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL ALSO MAINTAIN ACCESS 2. TO ALL EXISTING AND PROPOSED WATER VALVES AT ALL TIMES (NSPI).
- NSPI NOT A SEPARATE PAY ITEM
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF ALL EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION.
- CONTRACTOR SHALL BACKFILL THE TRENCH AT THE END OF EACH DAY, INCLUDING TRENCH OUTSIDE OF PAVEMENT, CONTINUOUS ACCESS MUST 5 BE MAINTAINED FOR RESIDENTS.
- ALL PROPOSED WATER LINES SHALL BE INSTALLED WITH AT LEAST 5 FEET OF COVER TO FINISHED GRADE, UNLESS OTHERWISE NOTED IN PLANS. 6. CONTRACTOR SHALL BE AWARE THAT THIS INCLUDES AREAS WHERE MAINS, FIRE HYDRANTS LEADS, AND SERVICES CROSS PROPOSED DITCHES.
- 7. MAIL AND TRASH SERVICE IS TO BE MAINTAINED AT ALL TIMES (NSPI)
- THE CONTRACTOR SHALL RE-ESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL 8. LOCATION AND ELEVATION. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VERTICAL AND HORIZONTAL CONTROL SHOWN ON THE PLANS THROUGHOUT THE PROJECT. CONTRACTOR SHALL RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS AT NO ADDITIONAL COST TO SAWS
- SAWS SHALL MACHINE CHLORINATE NEW MAINS UNLESS OTHERWISE STATED 9
- ALL POWER POLES AND OVERHEAD ELECTRIC WILL BE MOVED BY OTHERS PRIOR TO ANY WATER AND SEWER WORK EXCEPT FOR THE WATER 10. MAIN ADJUSTMENTS BETWEEN SONTERRA PLACE AND JHM WAY
- WHERE INDICATED IN THE PLANS, STATION AND OFFSETS FOR PROPOSED FIRE HYDRANTS ARE TO TEE ON THE MAIN. FIRE HYDRANT TO BE INSTALLED IN ACCORDANCE WITH SAWS STD DWG DD-834-01 AND THE SPECIFICATIONS.
- CONTRACTOR CAN OPEN CUT DRIVEWAYS AND ROADWAY CROSSINGS TO LAY PIPE. HOWEVER TWO WAY TRAFFIC MUST BE MAINTAINED AND 12. WORK NEEDS TO TAKE PLACE DURING OFFPEAK HOURS. SEE TXDOT TRAFFIC CONTROL PHASING AND TCP FOR REQUIREMENTS.
- CUSTOMER SHUT OFF VALVES ARE INCLUDED AS PART OF SERVICE RELAYS (NSPI) 13.
- 14. CONTRACTOR TO INSTALL ISOLATION GASKETS AT LOCATIONS WHERE PROPOSED DUCTILE IRON MAINS CONNECT TO EXISTING DUCTILE IRON MAINS. (NSPI
- 15 CONTRACTOR SHALL MAINTAIN AT LEAST 5' OF COVER OVER THE PROPOSED WATER MAINS AT ALL TIMES DURING CONSTRUCTION
- EXISTING GAS LINES THAT ARE TO BE REMOVED SHALL BE REMOVED BY OTHERS. 16.
- TRENCH EXCAVATION PROTECTION SHALL NOT BE PAID FOR SEPARATELY WHEN INSTALLING CONCRETE CAPS, SADDLES, OR ENCASEMENT. IT 17. SHALL BE INCLUSIVE TO THE WORK PERFORMED UNDER ITEM 7196 6012 CONCRETE SADDLE. (NSPI)





DISTRICT

SAT



o.	Revision	Drawn	Approved	Date				
	REVISIONS							

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		LO (ST	OP 1604 SEGMEN ONE OAK PARKWAY EMERALD FOREST GENERAL NOTES SAWS JOB NO: 22-5017	(TO			
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CONTROL NO.

2452

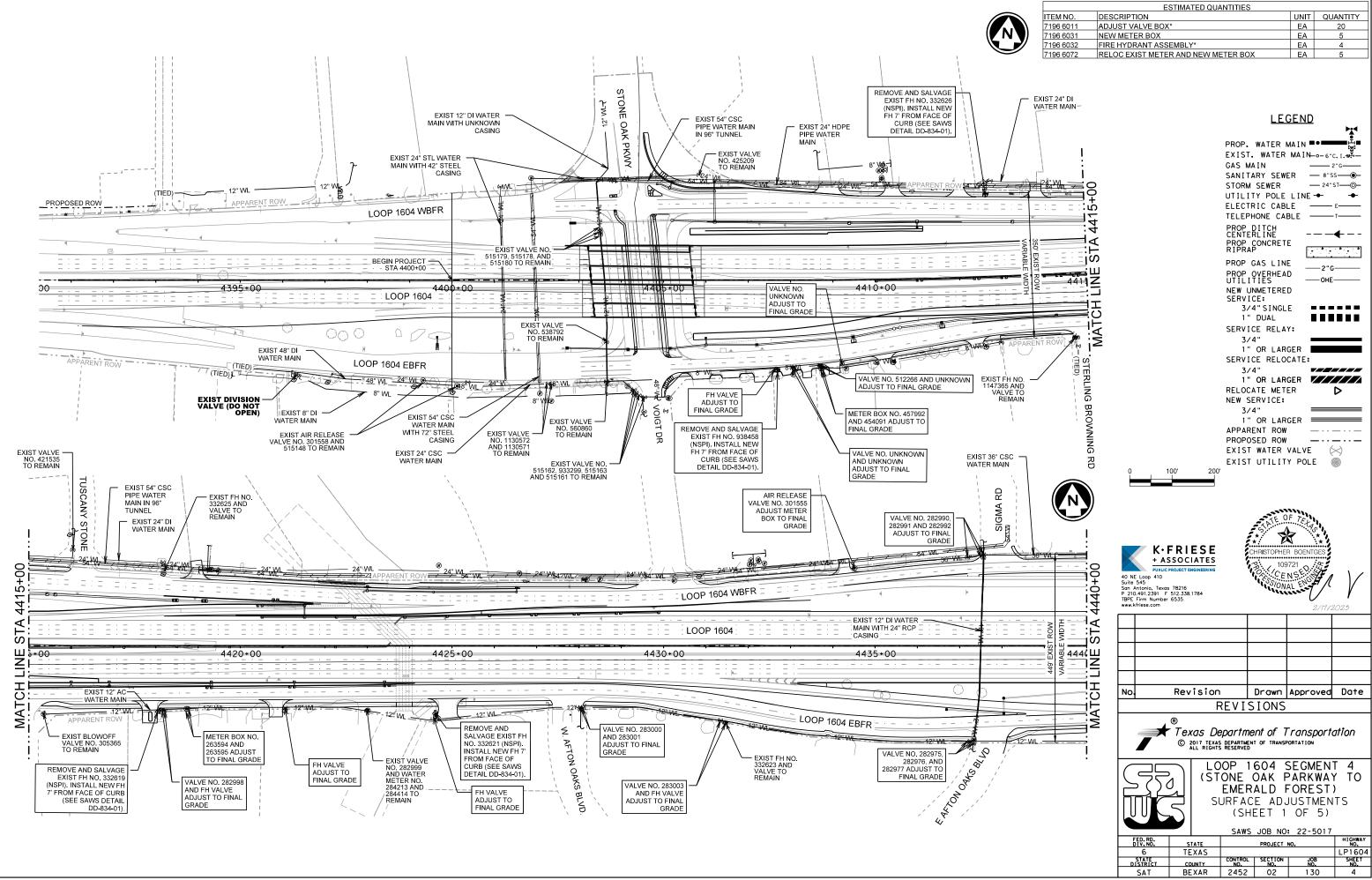
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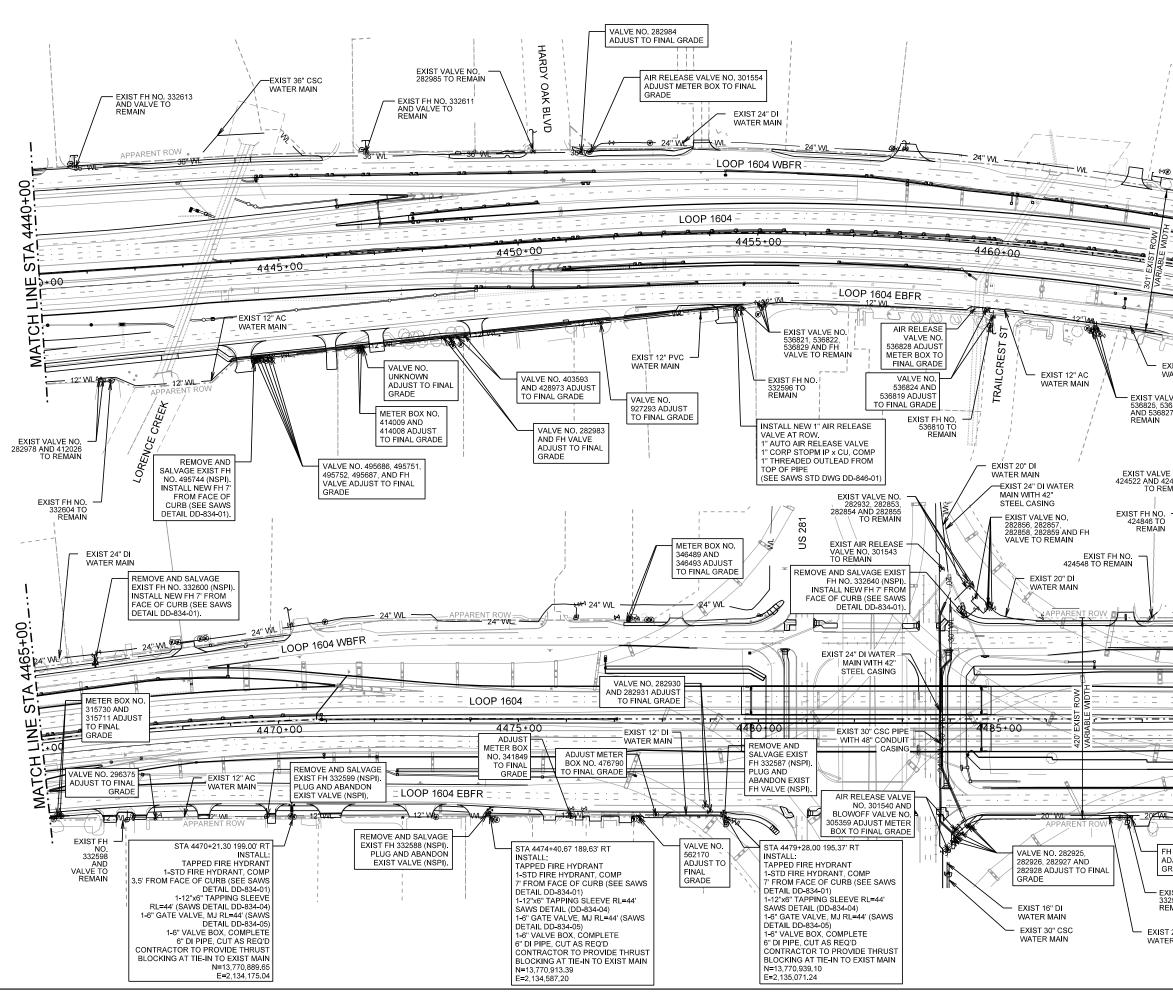
COUNTY BEXAR

ITEM NO.	DESCRIPTION	UNIT	SHEET 4 OF 12	SHEET 5 OF 12	SHEET 6 OF 12	SHEET 7 OF 12	SHEET 8 OF 12	TOTAL QUANTITY
500 6001	MOBILIZATION	LS						1
7196 6002	DUCTILE IRON FITTINGS**	TN				0.3		0.3
7196 6011	ADJUST VALVE BOX*	EA	20	23	12	17	5	77
7196 6031	NEW METER BOX	EA	5	12	5	5	1	28
7196 6032	FIRE HYDRANT ASSEMBLY*	EA	4	3	2	7		16
7196 6037	AIR RELEASE VALVE (COMPLETE) (1")*	EA		1				1
7196 6042	RELOCATE FIRE HYDRANT*	EA				3	1	4
7196 6072	RELOC EXIST METER AND NEW METER BOX	EA	5	12	5	5	1	28
7196 6088	TAPPED FIRE HYDRANT*	EA		3	3	1	1	8
7196 6095	CUT-IN TEE (COMPLETE) (8"x8")*	EA				3		3

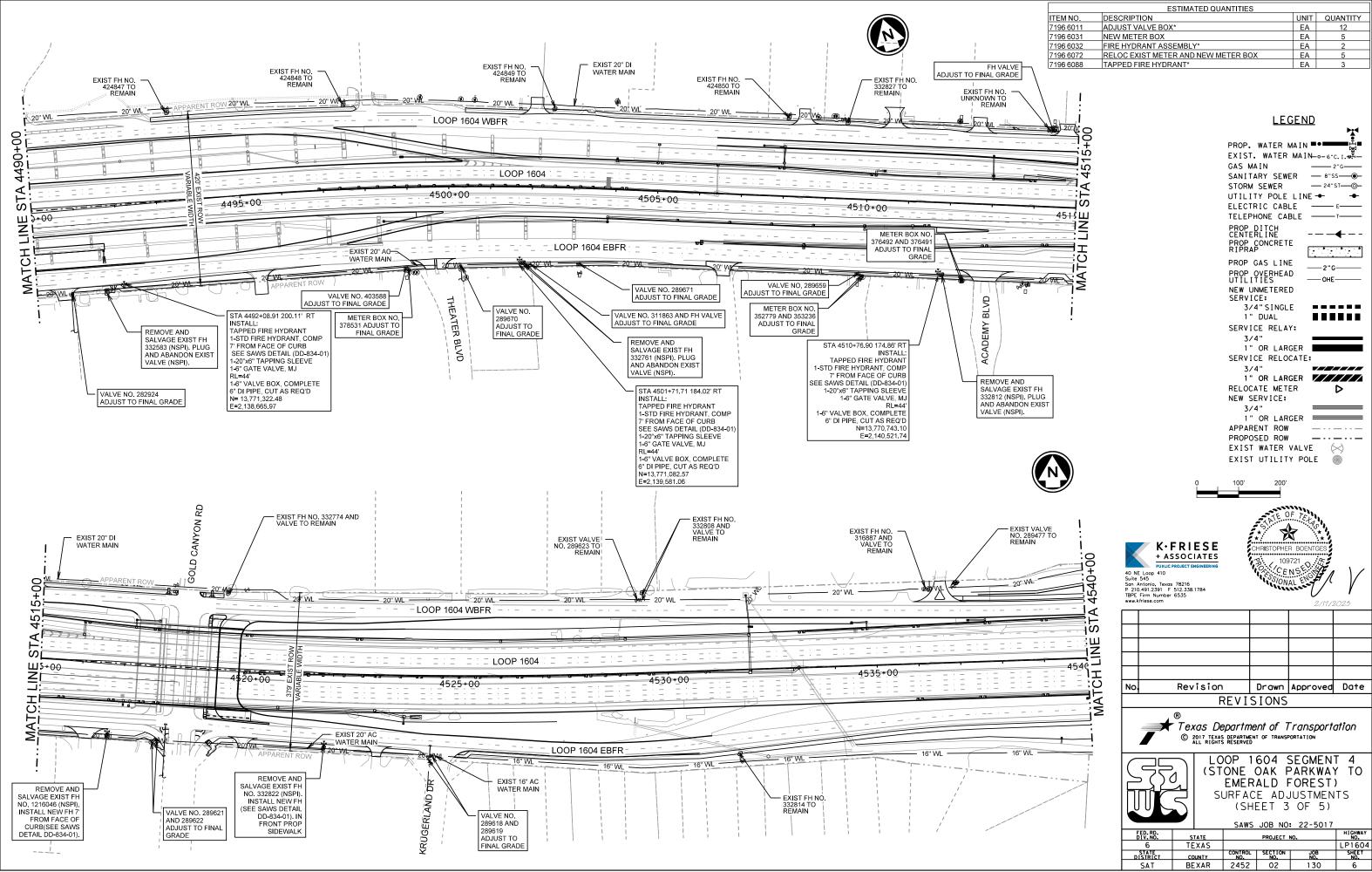
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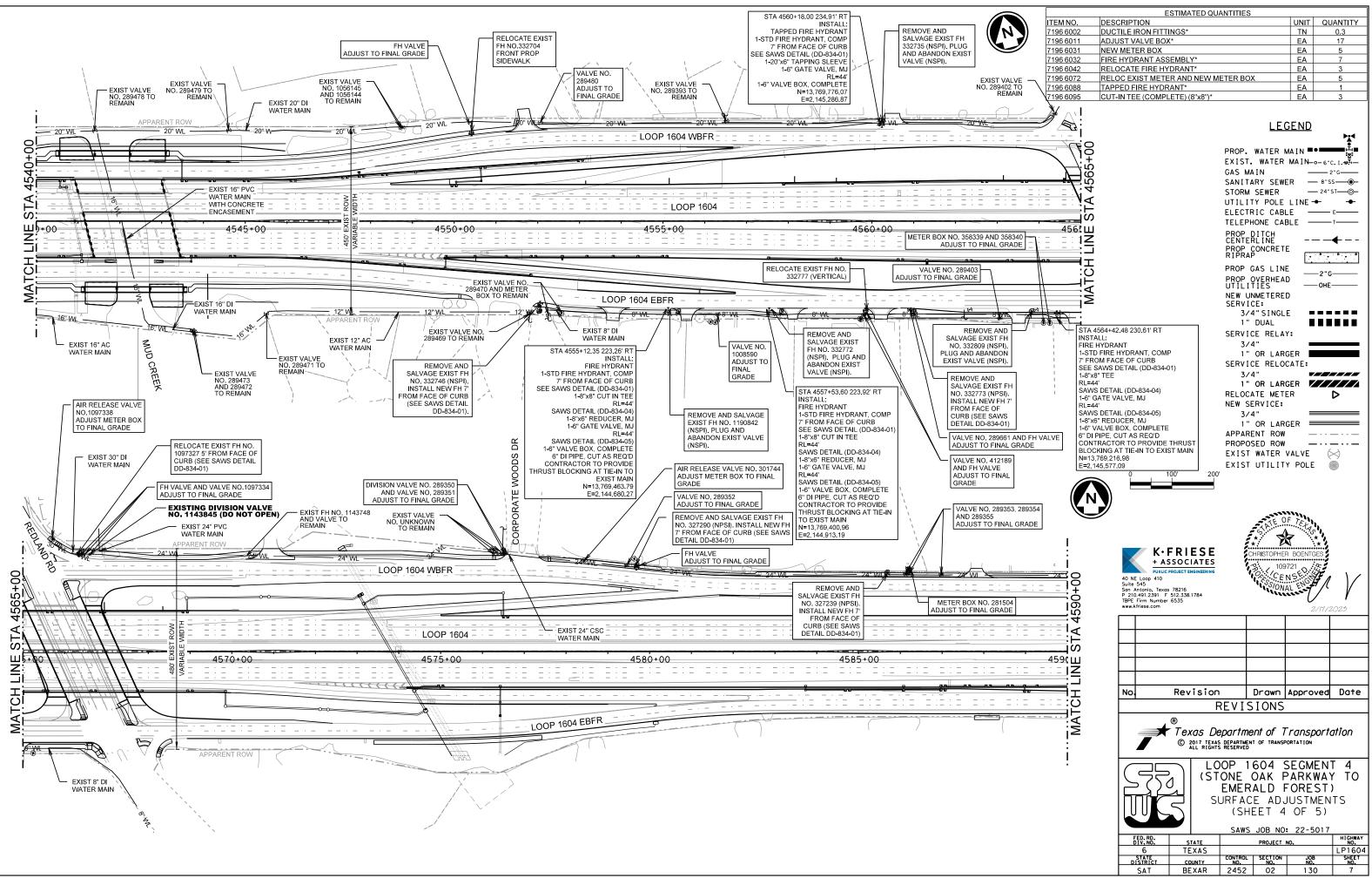
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/*	© 2021 TEXAS DEPARTMENT OF TRANSPORTATION C 2021 TEXAS DEPARTMENT OF TRANSPORTATION ALL RIGHTS RESERVED								
LOOP 1604 SEGMENT 4 (STONE OAK PARKWAY TO EMERALD FOREST) QUANTITY SUMMARY TABLE									
		SAWS	JOB NO	22-5017					
FED. RD. DIV. NO.	STATE		PROJECT	NO.	HIGHWAY NO.				
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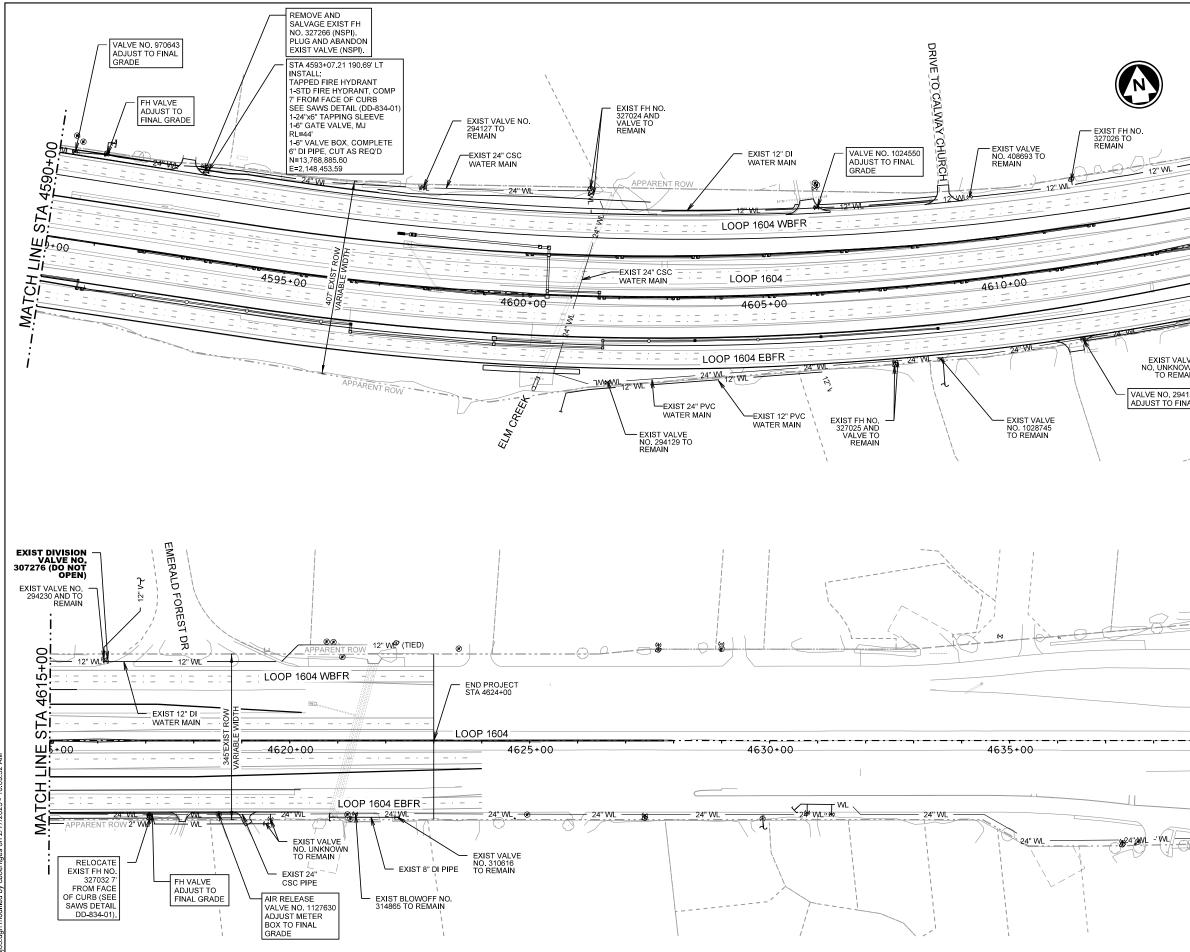




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	ITEM NO.	DESCRIPTION				UNIT	QUANTITY
	7196 6011	ADJUST VALVE BOX	〈 *			EA	23
	7196 6031	NEW METER BOX				EA	12
	7196 6032	FIRE HYDRANT ASS				EA	3
	7196 6037	AIR RELEASE VALV				EA	1
r	7196 6072	RELOC EXIST METE		IETER BOX		EA	12
1	7196 6088	TAPPED FIRE HYDR	RANT*			EA	3
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7196 6031	NEW METER BOX	EA	<u>5</u> 1
7196 6042	RELOCATE FIRE HYDRANT*	EA	1
7196 6072	RELOC EXIST METER AND NEW METER BOX	EA	1
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7196 6088	TAPPED FIRE HYDRANT*	ER MAIN-0-6°C. EWER - 8°SS R - 24°SD LE LINE - 24°SD CABLE - E CABLE - T CABLE - C CABLE - C C CABLE - C C C C C C C C C C C C C C	
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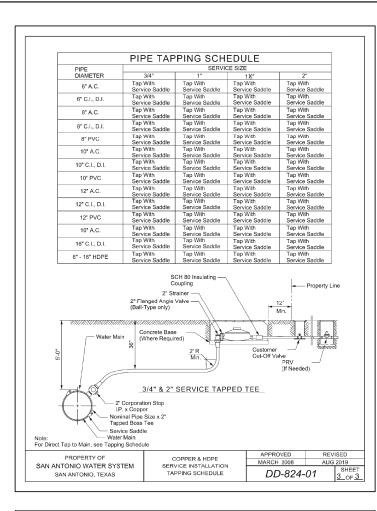
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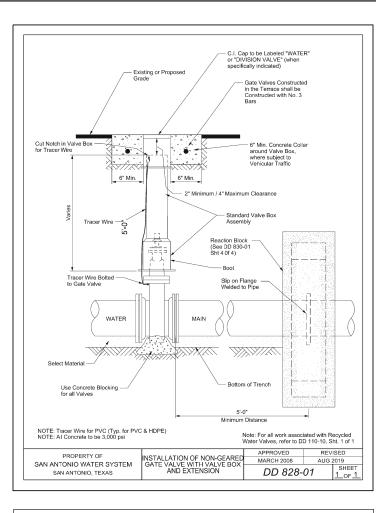
Texas Department of Transportation © 2017 TEXAS DEPARTMENT OF TRANSPORTATION ALL RIGHTS RESERVED LOOP 1604 SEGMENT 4 (STONE OAK PARKWAY TO EMERALD FOREST) SURFACE ADJUSTMENTS (SHEET 5 OF 5)

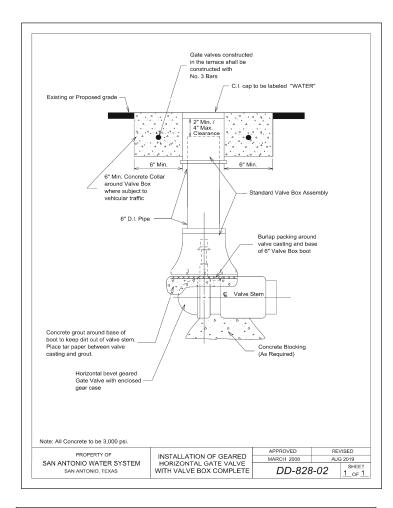
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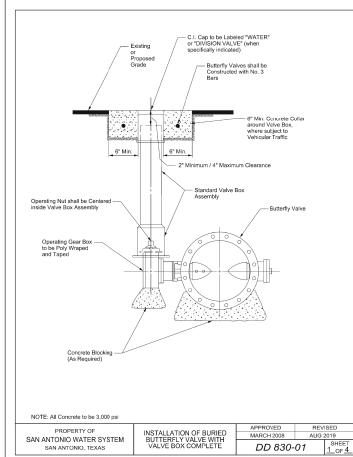
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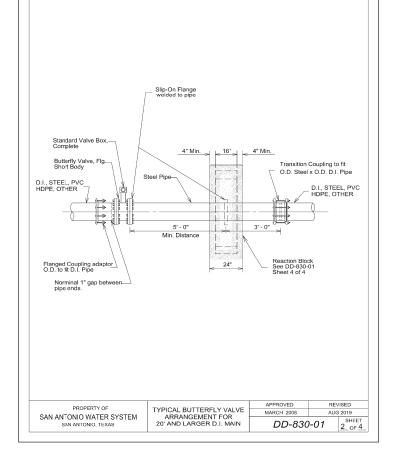
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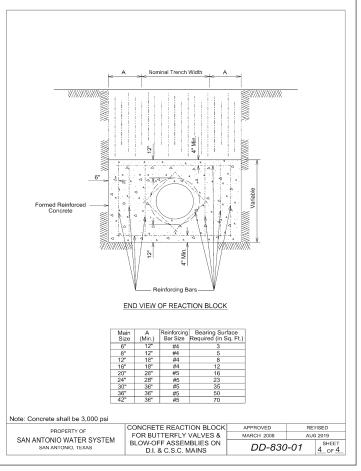


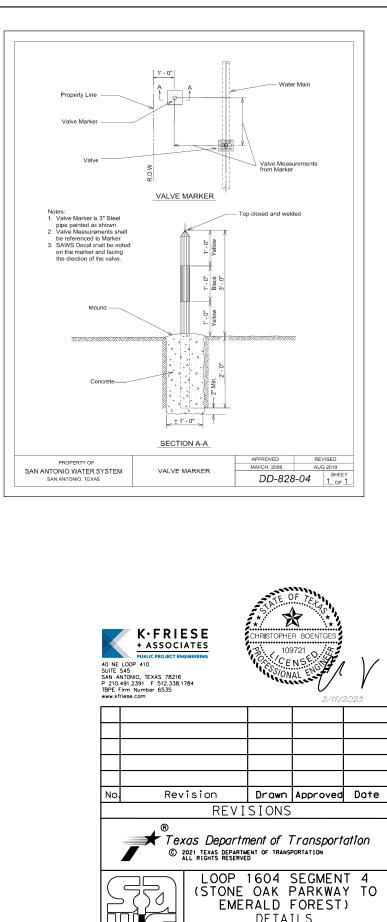




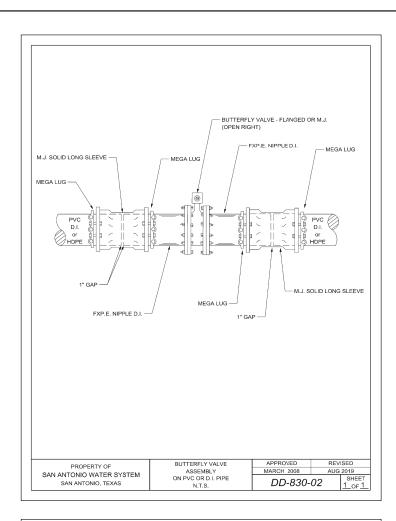


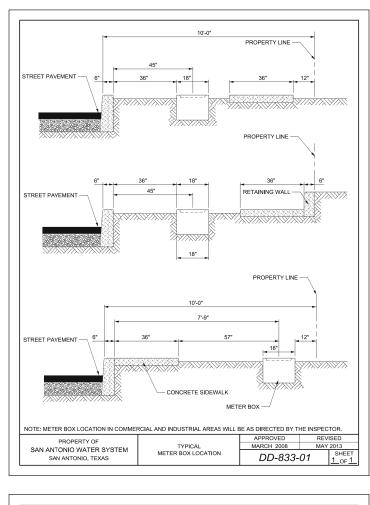


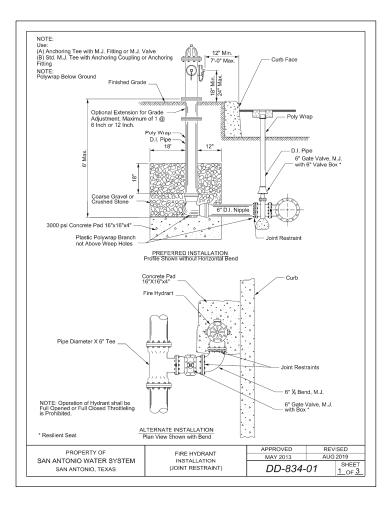


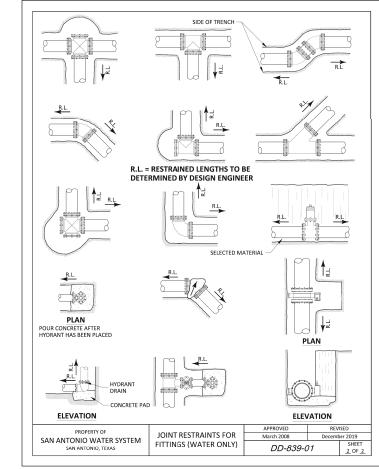


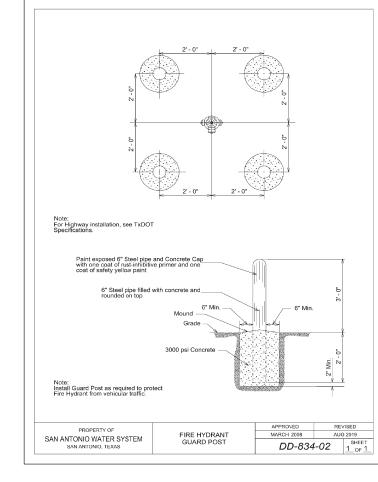
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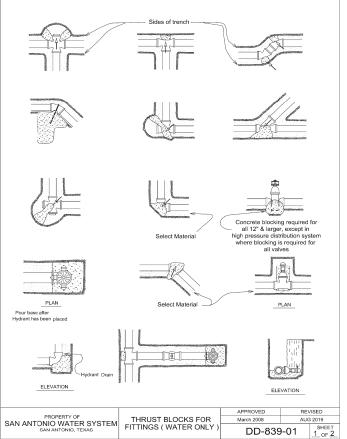


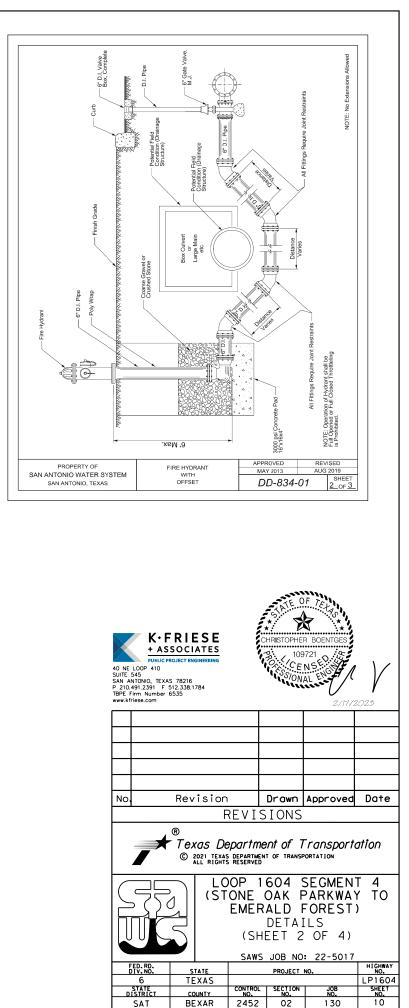


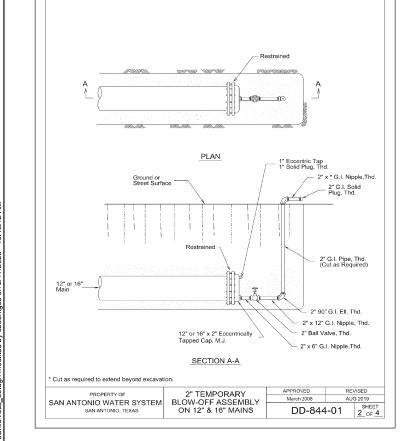


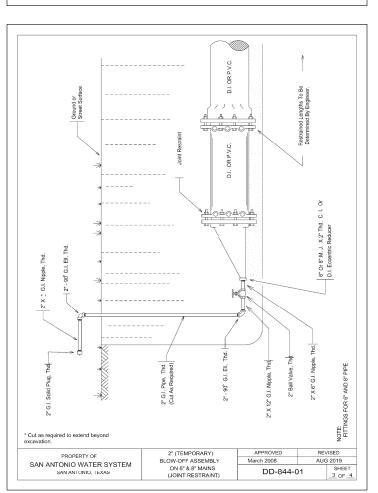


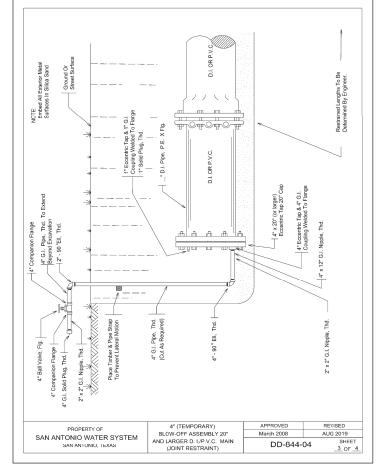












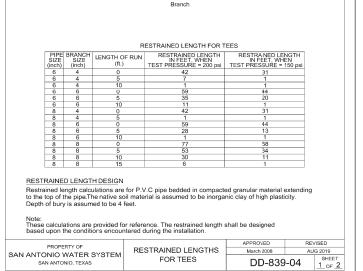
RESTRAINED LENGTHS FOR DEAD ENDS / INLINE VALVES

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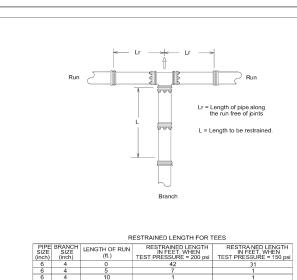
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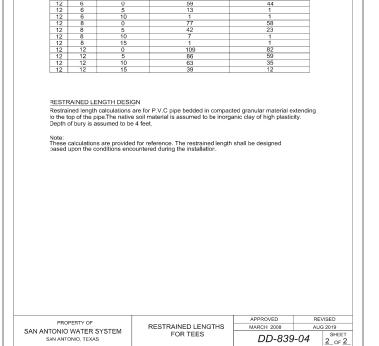
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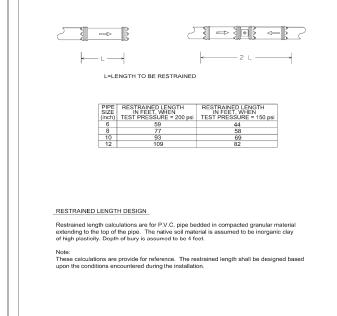
SAN ANTONIO, TEXAS





RESTRAINED LENGTH FOR TEES (Cont'd)
 BRANCH SIZE (inch)
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 RESTRAINED LENGTH IN FEET, WHEN TEST PRESSSURE = 200 psi TEST PRESS
 RESTRAINED IN FEET, TEST PRESS

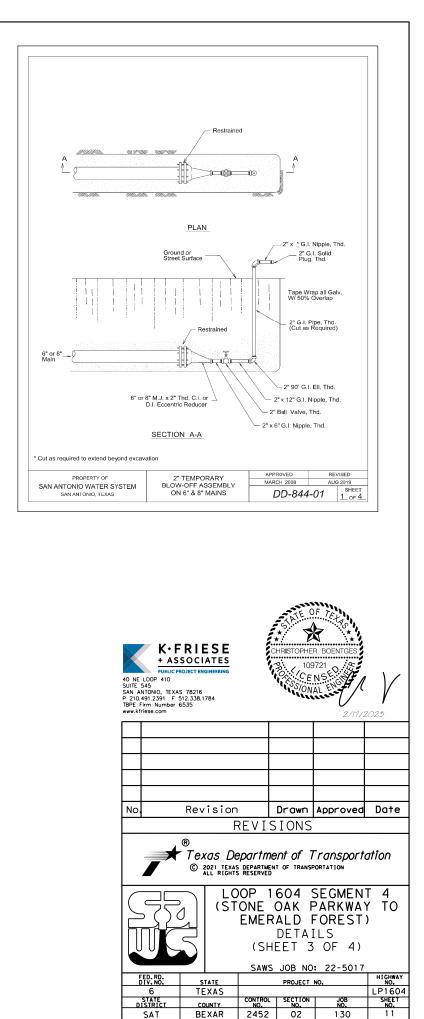
150 psi

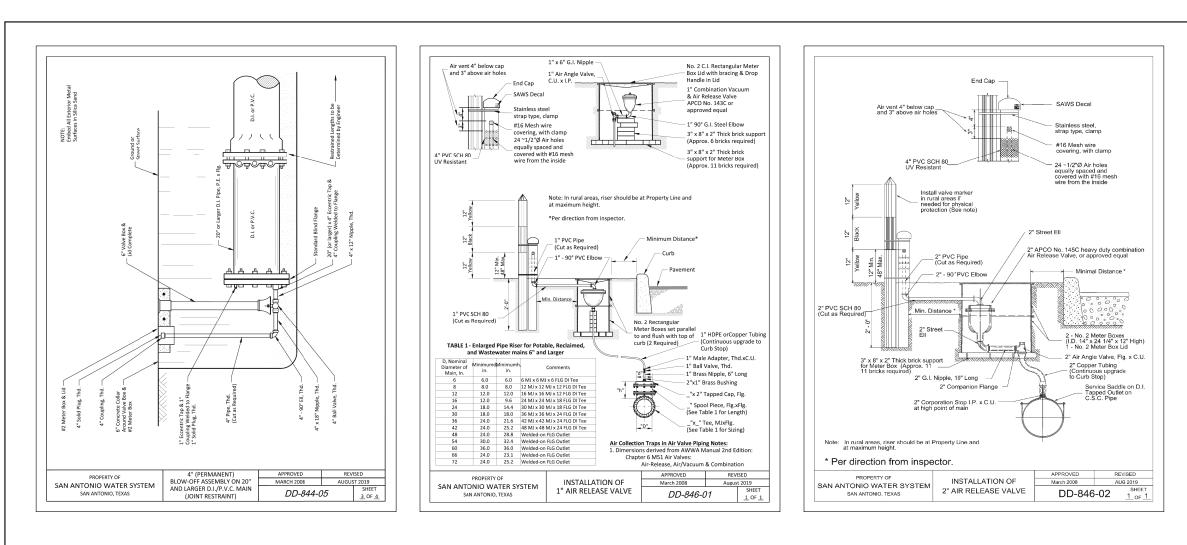


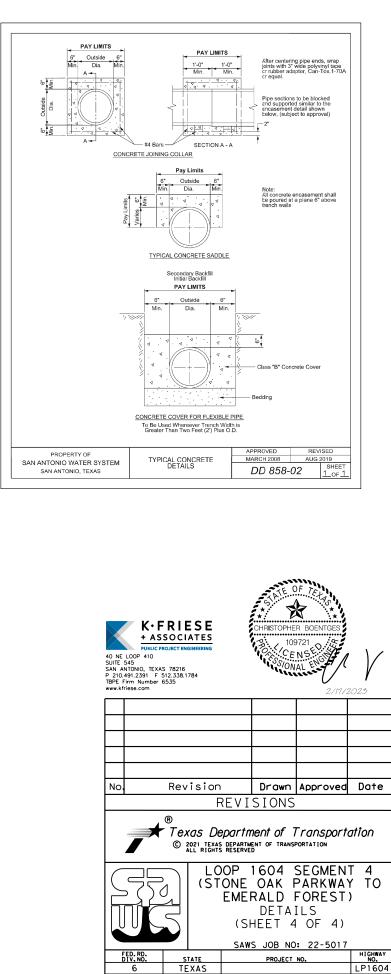
PROPERTY OF

SAN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS







STATE

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COUNTY

SHEET NO.

CONTROL SECTION

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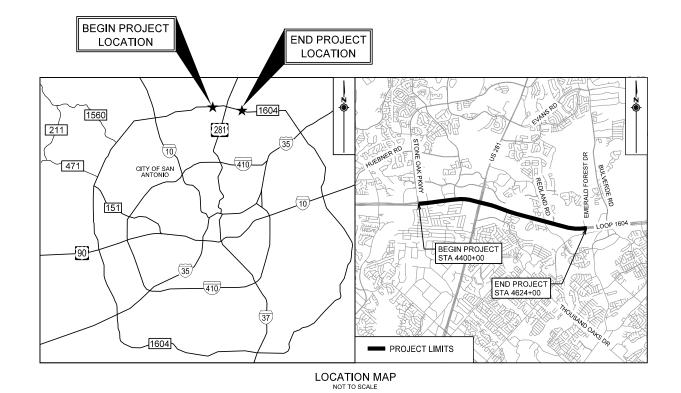
SAN ANTONIO WATER SYSTEM

SAWS SEWER JOB NO: 22-5514 LOOP 1604 SEGMENT 4 STONE OAK PARKWAY TO EMERALD FOREST CSJ : 2452-02-130

SUBMITTAL PREPARED BY:



K • FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING H 40 NE LOOP 410 SUITE 545 SAN ANTONIO, TEXAS 78216 P - 210,491,2391 F - 512,338,1784 TBPE Firm #6535 www.kfriese.com



FEBRUARY 2023



SHEET LIST

1 COVER SHEET	SHT NO.	DESCRIPTION
2 GENERAL NOTES 3 TCEQ NOTES (SHEET 1 OF 2) 4 TCEQ NOTES (SHEET 2 OF 2) 5 QUANTITY SUMMARY TABLE 6 SURFACE ADJUSTMENTS (SHEET 1 OF 5 7 SURFACE ADJUSTMENTS (SHEET 2 OF 5 8 SURFACE ADJUSTMENTS (SHEET 4 OF 5 9 SURFACE ADJUSTMENTS (SHEET 5 9 SURFACE ADJUSTMENTS (SHEET 5 9 SURFACE ADJUSTMENTS (SHEET 5 9 SURFACE ADJUSTMENTS (SHEET 5 9 SURFACE ADJUSTMENTS (SHEET 5 9 SURFACE	3 4 5 6 7 8 9	TCEQ NOTES (SHEET 1 OF 2) TCEQ NOTES (SHEET 2 OF 2) QUANTITY SUMMARY TABLE SURFACE ADJUSTMENTS (SHEET 1 OF 5) SURFACE ADJUSTMENTS (SHEET 2 OF 5) SURFACE ADJUSTMENTS (SHEET 2 OF 5) SURFACE ADJUSTMENTS (SHEET 4 OF 5) SURFACE ADJUSTMENTS (SHEET 5 OF 5)



GENERAL SECTION

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE: A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS
- ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."
- CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION." CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR CONSTRUCTION."
- CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM)
- THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE HTTP://APPS.SAWS.ORG/BUSINESS_CENTER/SPECS/CONSTSPECS/ UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.
- THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 (DURING REGULAR SAWS WORKING HOURS), AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS TWO (2) WEEKS PRIOR TO EXCAVATION, OUTSIDE OF REGULAR SAWS WORKING HOURS THE SAWS ROC SHOULD BE CONTACTED AT
- IF NECESSARY, CONTRACTOR WILL COORDINATE USE OF SAWS PREMISES AT NO ADDITIONAL COST TO SAWS. SUCH EFFORTS INCLUDE, BUT ARE NOT LIMITED TO, OBTAINING SECURITY IDENTIFICATION BADGES REQUIRED FOR ACCESS TO SAWS FACILITIES.
- LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO
- THE CONTRACTOR SHALL VERIEV THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES PRIOR TO CONSTRUCTION WHETHER HE GOLD AND AN A SAULTS FOR SAWS INFRASTRUCTURE CAN BE OBTAINED AT WEBSITE BELOW. CONTRACTOR SHALL COORDINATE PHYSICAL LOCATES FOR SAWS INFRASTRUCTURE THROUGH THE SAWS INSPECTOR, PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE OCATION MARKERS ON SAWS INFRASTRUCTURE. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES

SAN ANTONIO WATER SYSTEM: REQUEST AS-BUILTS: HTTPS://WWW.SAWS.ORG/SERVICE/LOCATES-SERVICE/ COSA DRAINAGE 210-206-8433 COSA TRAFFIC SIGNAL OPERATIONS 210-207-7720 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.
- CONTRACTOR SHALL NOT MAKE USE OF DUMPSTERS OR WASTE BINS THAT ARE INTENDED TO SERVE RESIDENTS AND/OR BUSINESSES
- ALL WORK IN TEXAS HIGHWAY DEPARTMENT AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT
- 10. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- 12. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.
- HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO 13. CONSTWORKREQ@SAWS.ORG
- WEEKEN WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK, REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG. ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
- 14. PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED D SAWS INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS (NSPI)
- POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.
- 16. CONSTRUCTION SEQUENCING: IT IS THE CONTRACTOR SOLE RESPONSIBILITY TO SCHEDULE SEQUENCING FOR REMOVAL AND INSTALLATION OF EXISTING AND PROPOSED SAWS UTILITIES IN CONJUNCTION WITH GENERAL PROJECT CONSTRUCTION. SEQUENCE OF CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED IN ORDER TO MINIMIZE THE EXTENT AND DURATION OF DISTURBANCES.
- CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE OVERSEEN BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) OSHA INFORMATION AND RELATED MATERIALS MAY BE OBTAINED AT HTTPS://WWW.OSHA GOV/ OB AT THE OSHA SAN ANTONIO OFFICE LOCATED AT FOUNTAINHEAD TOWER, SUITE 605 8200 W. INTERSTATE 10 SAN ANTONIO, TX 78230 WHICH IS ALSO REACHABLE BY PHONE AT (210) 472-5040
- 18. TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREAS IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES, THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION

SEWER SECTION: 19. THE CONTRA

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSELE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR
- IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT 210-704-SAWS (210-704-7297). Α. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.
- CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED D. SOIL/MATERIALS
- CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.

MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED SEWER MAINS AT SAWS DIRECTION) WITHIN 24 HOURS

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS INCLUDING ANY FINES FROM FR

NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND

- THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND FACH SEGMENT OF PIPE TO BE REPLACED. IN ACCORDANCE WITH SAWS 20 SPECIFICATION TIEM NO. 865, "BYPASS PUMPING SMALL DIAMETER SANITARY SEWER MAINS" AND ITEM NO. 864, "BYPASS PUMPING LARGE DIAMETER SANITARY SEWER MAINS" AS APPLICABLE. PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE APPROPIATE BID ITEM ASSOCIATED WITH SANITARY SEWER BYPASS PUMPING IN ACCORDANCE WITH SAWS SPECIFICATION 865 AND 864.
- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

- SEWER SECTION CONT. 22. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS (NSPI)
- 23. MANHOLE REMOVAL: WHERE EXISTING MANHOLES ARE TO BE REPLACED BY THE CONTRACTOR, THE EXISTING MANHOLES SHALL BE REMOVED
- 24. SMART MANHOLE COVERS: THE CONTRACTOR SHALL NOTIFY SAWS EOC AT 210-704-SAWS (210-233-7297) AND EITHER AMERICA ESPINOZA AT 210-233-2934 OR JOSE A. MARTINEZ AT 210-233-3071 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE SMART COVER. ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.
- 25. FLOW METERS IN MANHOLES: THE CONTRACTOR SHALL NOTIFY BOBBY JOHNSON AT 210-233-3493 OR ABEL BORUNDA AT 210-233-3704 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE. IN ORDER TO HAVE SAWS REMOVE THE FLOW METER IN THE MANHOLE. ANY DAMAGE DONE TO THE FLOW METER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER

NOTES:

- 1. CONTRACTOR TO VERIFY EXISTING TIE-IN ELEVATIONS BEFORE STARTING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY AND CONTACT SAWS IF THERE ARE ANY LATERALS CONNECTING TO THE MAIN NOT SHOWN 2. ON THE PLANS
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF ALL EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION
- IF SANITARY SEWER LATERALS ARE WITHIN 9 FEET OF PROPOSED WATER SERVICE LINES, THE SANITARY SEWER LATERALS SHALL BE ENCASED WITH FLOWABLE FILL. THE ENCASEMENT SHALL BE 6-INCHES BELOW THE LATERAL, 6-INCHES ABOVE 4 THE LATERAL, AND 12-INCHES ON EITHER SIDE OF THE LATERAL.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO FEET OF VERTICAL SEPARATION DISTANCE BETWEEN ALL PROPOSED 5. SEWER LINES (MAINS AND LATERALS) AND EXISTING AND PROPOSED GAS MAINS.
- THE CONTRACTOR SHALL RE-ESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL LOCATION AND ELEVATION. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. THE CONTRACTOR 6. SHALL BE RESPONSIBLE FOR MAINTAINING THE VERTICAL AND HORIZONTAL CONTROL SHOWN ON THE PLANS THROUGHOUT THE PROJECT. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS AT NO ADDITIONAL COST TO SAWS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PUBLIC AND PRIVATE FACILITIES DURING CONSTRUCTION. 7
- CONTRACTOR MAY ENCOUNTER CONCRETE ENCASEMENT IN THE IMMEDIATE VICINITY OF EXISTING MANHOLES. ANY 8. CONCRETE REMOVAL REQUIRED FOR THE PROPER INSTALLATION OF PROPOSED SEWER MAIN AND TIE-INS SHALL BE AT NO ADDITIONAL COST TO THE OWNER (NSPI)
- ALL SAWS WORK SHALL REMAIN WITHIN THE LIMITS OF THE PROPOSED TXDOT ROADWAY WORK 9
- 10. ALL POWER POLES AND OVERHEAD ELECTRIC WILL BE MOVED BY OTHERS PRIOR TO ANY WATER AND SEWER WORK. CPS ENERGY NOTES
- CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-545-6005, 48 HOURS BEFORE BEGINNING ANY **EXCAVATION**
- DUE TO FEDERAL REGULATIONS TITLE 49. PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL 2
- THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN PROJECT AREA. 3
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC 4. FACILITIES IF ADJACENT TO WORK AREAS.

AT&T NOTES:

- THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE
- CONTRACTOR IS TO CONTACT THE TELEPHONE COMPANY LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-545-6005. 2. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION



40 NE Loop 410 Suite 545 Suite 545 San Antonio, Texas 78216 P 210.491.2391 F 512.338.1784 TBPE Firm Number 6535

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TCEQ ORGANIZED SEWAGE COLLECTION SYSTEM GENERAL CONSTRUCTION NOTES

- THIS ORGANIZED SEWAGE COLLECTION SYSTEM (SCS) MUST BE CONSTRUCTED IN ACCORDANCE WITH 30 TEXAS ADMINISTRATIVE CODE (TAC) 213.5(C), THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) EDWARDS AQUIFER RULES AND ANY LOCAL GOVERNMENT STANDARD SPECIFICATIONS.
- ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROPOSED REGULATED PROJECT MUST BE PROVIDED WITH COPIES OF THE SCS PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS MUST BE REQUIRED TO KEEP ON-SITE COPIES OF THE PLAN AND THE APPROVAL LETTER.
- A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE PRESIDING TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE: 3. - THE NAME OF THE APPROVED PROJECT,
 - THE ACTIVITY START DATE: AND
 - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
- 4. ANY MODIFICATION TO THE ACTIVITIES DESCRIBED IN THE REFERENCED SCS APPLICATION FOLLOWING THE DATE OF APPROVAL MAY REQUIRE THE SUBMITTAL OF AN SCS APPLICATION TO MODIFY THIS APPROVAL, INCLUDING THE PAYMENT OF APPROPRIATE FEES AND ALL INFORMATION NECESSARY FOR ITS REVIEW AND APPROVAL.
- 5 PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- IF ANY SENSITIVE FEATURES ARE DISCOVERED DURING THE WASTEWATER LINE TRENCHING ACTIVITIES, ALL REGULATED 6 ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPLICANT MUST IMMEDIATELY NOTIFY THE APPROPRIATE REGIONAL OFFICE OF THE TCEQ OF THE FEATURE DISCOVERED. A GEOLOGIST'S ASSESSMENT OF THE LOCATION AND EXTENT OF THE FEATURE DISCOVERED MUST BE REPORTED TO THAT REGIONAL OFFICE IN WRITING AND THE APPLICANT MUST SUBMIT A PLAN FOR ENSURING THE STRUCTURAL INTEGRITY OF THE SEWER LINE OR FOR MODIFYING THE PROPOSED COLLECTION SYSTEM ALIGNMENT AROUND THE FEATURE. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY WHILE MAINTAINING THE STRUCTURAL INTEGRITY OF THE LINE.
- SEWER LINES LOCATED WITHIN OR CROSSING THE 5-YEAR FLOODPLAIN OF A DRAINAGE WAY WILL BE PROTECTED FROM INUNDATION AND STREAM VELOCITIES WHICH COULD CAUSE EROSION AND SCOURING OF BACKFILL. THE TRENCH MUST BE CAPPED WITH CONCRETE TO PREVENT SCOURING OF BACKFILL, OR THE SEWER LINES MUST BE ENCASED IN CONCRETE. ALL CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES.
- 8. BLASTING PROCEDURES FOR PROTECTION OF EXISTING SEWER LINES AND OTHER UTILITIES WILL BE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION CRITERIA. SAND IS NOT ALLOWED AS BEDDING OR BACKFILL IN TRENCHES THAT HAVE BEEN BLASTED. IF ANY EXISTING SEWER LINES ARE DAMAGED. THE LINES MUST BE REPAIRED AND RETESTED.
- ALL MANHOLES CONSTRUCTED OR REHABILITATED ON THIS PROJECT MUST HAVE WATERTIGHT SIZE ON SIZE RESILIENT CONNECTORS ALLOWING FOR DIFFERENTIAL SETTLEMENT. IF MANHOLES ARE CONSTRUCTED WITHIN THE 100-YEAR FLOODPLAIN, THE COVER MUST HAVE A GASKET AND BE BOLTED TO THE RING. WHERE GASKETED MANHOLE COVERS ARE REQUIRED FOR MORE THAN THREE MANHOLES IN SEQUENCE OR FOR MORE THAN 1500 FEET, ALTERNATE MEANS OF VENTING WILL BE PROVIDED. BRICKS ARE NOT AN ACCEPTABLE CONSTRUCTION MATERIAL FOR ANY PORTION OF THE MANHOLE.

THE DIAMETER OF THE MANHOLES MUST BE A MINIMUM OF FOUR FEET AND THE MANHOLE FOR ENTRY MUST HAVE A MINIMUM CLEAR OPENING DIAMETER OF 30 INCHES. THESE DIMENSIONS AND OTHER DETAILS SHOWING COMPLIANCE WITH THE COMMISSION'S RULES CONCERNING MANHOLES AND SEWER LINE/MANHOLE INVERTS DESCRIBED IN 30 TAC 217.55 ARE INCLUDED ON PLAN SHEETS 11 OF 11.

IT IS SUGGESTED THAT ENTRANCE INTO MANHOLES IN EXCESS OF FOUR FEET DEEP BE ACCOMPLISHED BY MEANS OF A PORTABLE LADDER. THE INCLUSION OF STEPS IN A MANHOLE IS PROHIBITED

- WHERE WATER LINES AND NEW SEWER LINE ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC 217.53(D) (PIPE DESIGN) AND 30 TAC 290.44(E) (WATER DISTRIBUTION)
- 11. WHERE SEWERS LINES DEVIATE FROM STRAIGHT ALIGNMENT AND UNIFORM GRADE ALL CURVATURE OF SEWER PIPE MUST BE ACHIEVED BY THE FOLLOWING PROCEDURE WHICH IS RECOMMENDED BY THE PIPE MANUFACTURER: NOT APPLICABLE.

IF PIPE FLEXURE IS PROPOSED, THE FOLLOWING METHOD OF PREVENTING DEFLECTION OF THE JOINT MUST BE USED: NOT APPLICABLE

SPECIFIC CARE MUST BE TAKEN TO ENSURE THAT THE JOINT IS PLACED IN THE CENTER OF THE TRENCH AND PROPERLY BEDDED IN ACCORDANCE WITH 30 TAC 217.54.

NEW SEWAGE COLLECTION SYSTEM LINES MUST BE CONSTRUCTED WITH STUB OUTS FOR THE CONNECTION OF ANTICIPATED 12. EXTENSIONS. THE LOCATION OF SUCH STUB OUTS MUST BE MARKED ON THE GROUND SUCH THAT THEIR LOCATION CAN BE EASILY DETERMINED AT THE TIME OF CONNECTION OF THE EXTENSIONS. SUCH STUB OUTS MUST BE MANUFACTURED WYES OR TEES THAT ARE COMPATIBLE IN SIZE AND MATERIAL WITH BOTH THE SEWER LINE AND THE EXTENSION. AT THE TIME OF ORIGINAL CONSTRUCTION, NEW STUB-OUTS MUST BE CONSTRUCTED SUFFICIENTLY TO EXTEND BEYOND THE END OF THE STREET PAVEMENT. ALL STUB-OUTS MUST BE SEALED WITH A MANUFACTURED CAP TO PREVENT LEAKAGE. EXTENSIONS THAT WERE NOT ANTICIPATED AT THE TIME OF ORIGINAL CONSTRUCTION OR THAT ARE TO BE CONNECTED TO AN EXISTING SEWER LINE NOT FURNISHED WITH STUB OUTS MUST BE CONNECTED USING A MANUFACTURED SADDLE AND IN ACCORDANCE WITH ACCEPTED PLUMBING TECHNIQUES

IF NO STUB-OUT IS PRESENT AN ALTERNATE METHOD OF JOINING LATERALS IS SHOWN IN THE DETAIL ON PLAN SHEET NA OF <u>N/A</u>.

THE PRIVATE SERVICE LATERAL STUB-OUTS MUST BE INSTALLED AS SHOWN ON THE PLAN AND PROFILE SHEETS ON PLAN SHEET N/A OF N/A AND MARKED AFTER BACKFILLING AS SHOWN IN THE DETAIL ON PLAN SHEET N/A OF N/A

- TRENCHING, BEDDING AND BACKFILL MUST CONFORM WITH 30 TAC 217.54. THE BEDDING AND BACKFILL FOR FLEXIBLE PIPE 13. MUST COMPLY WITH THE STANDARDS OF ASTM D-2321, CLASSES IA, IB, II OR III. RIGID PIPE BEDDING MUST COMPLY WITH THE REQUIREMENTS OF ASTM C 12 (ANSI A 106.2) CLASSES A, B OR C.
- SEWER LINES MUST BE TESTED FROM MANHOLE TO MANHOLE, WHEN A NEW SEWER LINE IS CONNECTED TO AN EXISTING STUB OR CLEANOUT, IT MUST BE TESTED FROM EXISTING MANHOLE TO NEW MANHOLE. IF A STUB OR CLEANOUT IS USED AT THE END OF THE PROPSOED SEWER LINE, NO PRIVATE SERVICE ATTACHMENTS MAY BE CONNECTED BETWEEN THE LAST MANHOLE AND THE CLEANOUT UNLESS IT CAN BE CERTIFIED AS CONFORMING WITH THE PROVISIONS OF 30 TAC 213.5(C)(3)(E).

- 15. ALL SEWER LINES MUST BE TESTED IN ACCORDANCE WITH 30 TAC 217.57. THE ENGINEER MUST RETAIN COPIES OF ALL TEST RESULTS WHICH MUST BE MADE AVAILABLE TO THE EXECUTIVE DIRECTOR UPON REQUEST. THE ENGINEER MUST CERTIFY IN WRITING THAT ALL WASTEWATER LINES HAVE PASSED ALL REQUIRED TESTING TO THE APPROPRIATE REGIONAL OFFICE WITHIN 30 DAYS OF TEST COMPLETION AND PRIOR TO USE OF THE NEW COLLECTION SYSTEM. TESTING METHOD WILL BE:
 - FOR A COLLECTION SYSTEM PIPE THAT WILL TRANSPORT WASTEWATER BY GRAVITY FLOW, THE DESIGN MUST SPECIFY AN INFILTRATION AND EXFILTRATION TEST OR A LOW-PRESSURE AIR TEST A TEST MUST CONFORM TO THE FOLLOWING REQUIREMENTS:

(1) LOW PRESSURE AIR TEST.

- (A) A LOW PRESSURE AIRTEST MUST FOLLOW THE PROCEDURES DESCRIBED IN AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C-828, ASTM C-924, OR ASTM F-1417 OR OTHER PROCEDURE APPROVED BY THE EXECUTIVE DIRECTOR, EXCEPT AS TO TESTING TIMES AS REQUIRED IN TABLE C.3 IN SUBPARAGRAPH (C) OF THIS PARAGRAPH OR EQUATION C.3 IN SUBPARAGRAPH (B)(II) OF THIS PARAGRAPH.
- FOR SECTIONS OF COLLECTION SYSTEM PIPE LESS THAN 6 INCH AVERAGE INSIDE DIAMETER, THE FOLLOWING ROCEDURE MUST APPLY, UNLESS A PIPE IS TO BE TESTED AS REQUIRED BY PARAGRAPH (2) OF THIS SUBSECTION.
 - A PIPE MUST BE PRESSURIZED TO 3.5 POUNDS PER SQUARE INCH (PSI) GREATER THAN (I) THE PRESSURE EXERTED BY GROUNDWATER ABOVE THE PIPE. ONCE THE PRESSURE IS STABILIZED. THE MINIMUM TIME ALLOWABLE FOR THE
 - (II)PRESSURE TO DROP FROM 3.5 PSI GAUGE TO 2.5 PSI GAUGE IS COMPUTED FROM THE FOLLOWING EQUATION:

EQUATION C.3

$T = \frac{0.085 \times D \times K}{2}$

WHERE

- T = TIME FOR PRESSURE TO DROP 1.0 POUND PER SQUARE INCH GAUGE IN SECONDS
- K = 0.000419 x D x L, BUT NOT LESS THAN 1.0
- D = AVERAGE INSIDE PIPE DIAMETER IN INCHES
- L = LENGTH OF LINE OF SAME SIZE BEING TESTED, IN FEET
- Q = RATE OF LOSS, 0.0015 CUBIC FEET PER MINUTE PER SQUARE FOOT INTERNAL SURFACE
- SINCE A K VALUE OF LESS THAN 1.0 MAY NOT BE USED, THE MINIMUM TESTING TIME FOR EACH PIPE DIAMETER IS SHOWN IN THE FOLLOWING TABLE C.3:

PIPE DIAMETER (INCHES)	MINIMUM TIME (SECONDS)	MAXIMUM LENGTH FOR MINIMUM TIME (FEET)	TIME FOR LONGER LENGTH (SECONDS/FOOT)
6	340	398	0.855
8	454	298	1.520
10	567	239	2.374
12	680	199	3.419
15	850	159	5.342
18	1020	133	7.693
21	1190	114	10.471
21	1360	100	13.676
27	1530	88	17.309
30	1700	80	21.369
33	1870	72	25.856

- AN OWNER MAY STOP A TEST IF NO PRESSURE LOSS HAS OCCURRED DURING THE FIRST 25% OF THE CALCULATED TESTING TIME
- IF ANY PRESSURE LOSS OR LEAKAGE HAS OCCURRED DURING THE FIRST 25% OF A TESTING PERIOD. THEN THE TEST MUST CONTINUE FOR THE ENTIRE TEST DURATION AS OUTLINED ABOVE OR UNTIL FAILURE.
- WASTEWATER COLLECTION SYSTEM PIPES WITH A 27 INCH OR LARGER AVERAGE INSIDE (F) DIAMETER MAY BE AIR TESTED AT EACH JOINT INSTEAD OF FOLLOWING THE PROCEDURE OUTLINED IN THIS SECTION.
- A TESTING PROCEDURE FOR PIPE WITH AN INSIDE DIAMETER GREATER THAN 33 INCHES MUST BE APPROVED BY THE EXECUTIVE DIRECTOR.

(2) INFILTRATION/EXFILTRATION TEST.

- THE TOTAL EXELL TRATION AS DETERMINED BY A HYDROSTATIC HEAD TEST, MUST NOT (A) EXCEED 50 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF 2.0 FEET ABOVE THE CROWN OF A PIPE AT AN UPSTREAM MANHOLE.
- AN OWNER SHALL USE AN INFILTRATION TEST IN LIEU OF AN EXFILTRATION TEST WHEN PIPES (B) ARE INSTALLED BELOW THE GROUNDWATER LEVEL.
- THE TOTAL EXFILTRATION, AS DETERMINED BY A HYDROSTATIC HEAD TEST, MUST NOT (C) EXCEED 50 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF TWO FEET ABOVE THE CROWN OF A PIPE AT AN UPSTREAM MANHOLE. OR AT LEAST TWO FEET ABOVE EXISTING GROUNDWATER LEVEL, WHICHEVER IS GREATER.
- (D) FOR CONSTRUCTION WITHIN A 25-YEAR FLOOD PLAIN, THE INFILTRATION OR EXFILTRATION MUST NOT EXCEED 10 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT THE SAME MINIMUM TEST HEAD AS IN SUBPARAGRAPH (C) OF THIS PARAGRAPH
- IF THE QUANTITY OF INFILTRATION OR EXFILTRATION EXCEEDS THE MAXIMUM QUANTITY SPECIFIED, AN OWNER SHALL UNDERTAKE REMEDIAL ACTION IN ORDER TO REDUCE THE INFILTRATION OR EXFILTRATION TO AN AMOUNT WITHIN THE LIMITS SPECIFIED. AN OWNER SHALL RETEST A PIPE FOLLOWING A REMEDIATION ACTION.

(b)

IF A GRAVITY COLLECTION PIPE IS COMPOSED OF FLEXIBLE PIPE. DEFLECTION TESTING IS ALSO REQUIRED. THE FOLLOWING PROCEDURES MUST BE FOLLOWED: (1) FOR A COLLECTION PIPE WITH INSIDE DIAMETER LESS THAN 27 INCHES, DEFLECTION MEASUREMENT REQUIRES A RIGID MANDREL.

- (A) MANDREL SIZING.
 - (I) A RIGID MANDREL MUST HAVE AN OUTSIDE DIAMETER (OD) NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER (ID) OR AVERAGE ID OF A PIPE, AS SPECIFIED IN THE APPROPRIATE STANDARD BY THE ASTMS, AMERICAN WATER WORKS ASSOCIATION, UNI-BELL, OR AMERICAN NATIONAL STANDARDS INSTITUTE, OR ANY RELATED APPENDIX.
 - (II) IF A MANDREL SIZING DIAMETER IS NOT SPECIFIED IN THE APPROPRIATE STANDARD, THE MANDREL MUST HAVE AN OD EQUAL TO 95% OF THE ID OF A PIPE. IN THIS CASE, THE ID OF THE PIPE, FOR THE PURPOSE OF DETERMINING THE OD OF THE MANDREL, MUST EQUAL BE THE AVERAGE OUTSIDE DIAMETER MINUS TWO MINIMUM WALL THICKNESSES FOR OD CONTROLLED PIPE AND THE AVERAGE INSIDE DIAMETER FOR ID CONTROLLED PIPE.
 - (III) ALL DIMENSIONS MUST MEET THE APPROPRIATE STANDARD.
- (B) MANDREL DESIGN.
 - (I) A RIGID MANDREL MUST BE CONSTRUCTED OF A METAL OR A RIGID PLASTIC MATERIAL THAT CAN WITHSTAND 200 PSI WITHOUT BEING DEFORMED
 - (II) A MANDREL MUST HAVE NINE OR MORE ODD NUMBER OF RUNNERS OR LEGS
 - (III) A BARREL SECTION LENGTH MUST EQUAL AT LEAST 75% OF THE INSIDE DIAMETER OF A PIPE.
 - (IV) EACH SIZE MANDREL MUST USE A SEPARATE PROVING RING.



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TCEQ ORGANIZED SEWAGE COLLECTION SYSTEM

GENERAL CONSTRUCTION NOTES (CON.'T)

- (A) METHOD OPTIONS.
 - (I) AN ADJUSTABLE OR FLEXIBLE MANDREL IS PROPHIBITED.
 - (II) A TEST MAY NOT USE TELEVISION INSPECTION AS A SUBSTITUTE FOR A DEFLECTION TEST.
 - (III) IF REQUESTED, THE EXECUTIVE DIRECTOR MAY APROVE THE USE OF A DEFLECTOMETER OF A MANDREL WITH REMOVABLE LEGS OR RUNNERS ON A CASE-BY-CASE BASIS.
- (2) FOR A GRAVITY COLLECTION SYSTEM PIPE WITH AN INSIDE DIAMETER 27 INCHES AND GREATER, OTHER TEST METHODS MAY BE USED TO DETERMINE VERTICAL DEFLECTION.
- (3) A DEFLECTION TEST METHOD MUST BE ACCURATE TO WITHIN PLUS OR MINUS 0.2% DEFLECTION.
- (4) AN OWNER SHALL NOT CONDUCT A DEFLECTION TEST UNTIL AT LEAST 30 DAYS AFTER THE FINAL BACKFILL.
- (5) GRAVITY COLLECTION SYSTEM PIPE DEFLECTION MUST NOT EXCEED FIVE PERCENT (5%).
- (6) IF A PIPE SECTION FAILS A DEFLECTION TEST, AN OWNER SHALL CORRECT THE PROBLEM AND CONDUCT A SECOND TEST AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
- 16. ALL MANHOLES MUST BE TESTED TO MEET OR EXCEED THE REQUIREMENTS OF 30 TAC 217.58.
 - (a) ALL MANHOLES MUST PASS A LEAKAGE TEST.
 - (b) AN OWNER SHALL TEST EACH MANHOLE (AFTER ASSEMBLY AND BACKFILLING) FOR LEAKAGE, SEPARATE AND INDEPENDENT OF THE COLLECTION SYSTEM PIPES, BY HYDROSTATIC EXFILTRATION TESTING, VACUUM TESTING, OR OTHER METHOD APPROVED BY THE EXECUTIVE DIRECTOR.

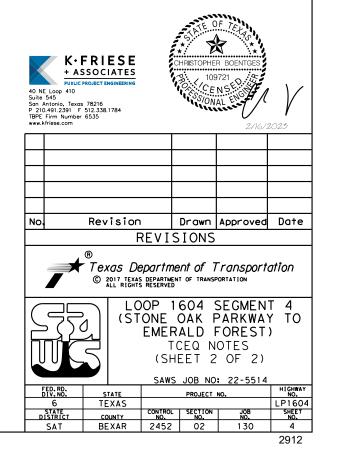
(1) HYDROSTATIC TESTING

- (A) THE MAXIMUM LEAKAGE FOR HYDROSTATIC TESTING OR ANY ALTERNATIVE TEST METHODS IS 0.025 GALLONS PER FOOT DIAMETER PER FOOT OF MANHOLE DEPTH PER HOUR.
- (B) TO PERFORM A HYDROSTATIC EXFILTRATION TEST, AN OWNER SHALL SEAL ALL WASTEWATER PIPES COMING INTO A MANHOLE WITH AN INTERNAL PIPE PLUG, FILL THE MANHOLE WITH WATER, AND MAINTAIN THE TEST FOR AT LEAST ONE HOUR.
- (C) A TEST FOR CONCRETE MANHOLES MAY USE A 24-HOUR WETTING PERIOD BEFORE TESTING TO ALLOW SATURATION OF THE CONCRETE.

(2) VACUUM TESTING

- (A) TO PERFORM A VACUUM TEST, AN OWNER SHALL PLUG ALL LIFT HOLES AND EXTERIOR JOINTS WITH A NON-SHRINK GROUT AND PLUG ALL PIPES ENTERING A MANHOLE.
- (B) NO GROUT MUST BE PLACED IN HORIZONTAL JOINTS BEFORE TESTING.
- (C) STUB-OUTS, MANHOLE BOOTS, AND PIPE PLUGS MUST BE SECURED TO PREVENT MOVEMENT WHILE A VACUUM IS DRAWN.
- (D) AN OWNER SHALL USE A MINIMUM 60 INCH/LB TORQUE WRENCH TO TIGHTEN THE EXTERNAL CLAMPS THAT SECURE A TEST COVER TO THE TOP OF A MANHOLE.
- (E) A TEST HEAD MUST BE PLACED AT THE INSIDE OF THE TOP OF A CONE SECTION, AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- (F) THERE MUST BE A VACUUM OF 10 INCHES OF MERCURY INSIDE A MANHOLE TO PERFORM A VALID TEST.
- (G) A TEST DOES NOT BEGIN UNTIL AFTER THE VACUUM PUMP IS OFF.
- (H) A MANHOLE PASSES THE TEST IF AFTER 2.0 MINUTES AND WITH ALL VALVES CLOSED, THE VACUUM IS AT LEAST 9.0 INCHES OF MERCURY.
- 17. ALL PRIVATE SERVICE LATERALS MUST BE INSPECTED AND CERTIFIED IN ACCORDANCE WITH 30 TAC 213.5(C)(3)I). AFTER INSTALLATION OF, AND PRIOR TO COVERING AND CONNECTING A PRIVATE SERVICE LATERAL TO AN EXISTING ORGANIZED SEWAGE COLLECTION SYSTEM, A TEXAS LICENSED PROFESSIONAL ENGINEER, TEXAS REGISTERED SANITARIAN, OR APPROPRIATE CITY INSPECTOR MUST VISUALLY INSPECT THE PRIVATE SREVICE LATERAL AND THE CONNECTION TO THE SEWAGE COLLECTION SYSTEM AND CERTIFY THAT IT IS CONSTRUCTED IN CONFORMITY WITH THE APPLICABLE PROVISIONS OF THIS SECTION. THE OWNER OF THE COLLECTION SYSTEM MUST MAINTAIN SUCH CERTIFICATIONS FOR FIVE YEARS AND FORWARD COPIES TO THE APPROPRIATE REGIONAL OFFICE UPON REQUEST. CONNECTIONS MAY ONLY BE MADE TO AN APPROVED SEWAGE COLLECTION SYSTEM.

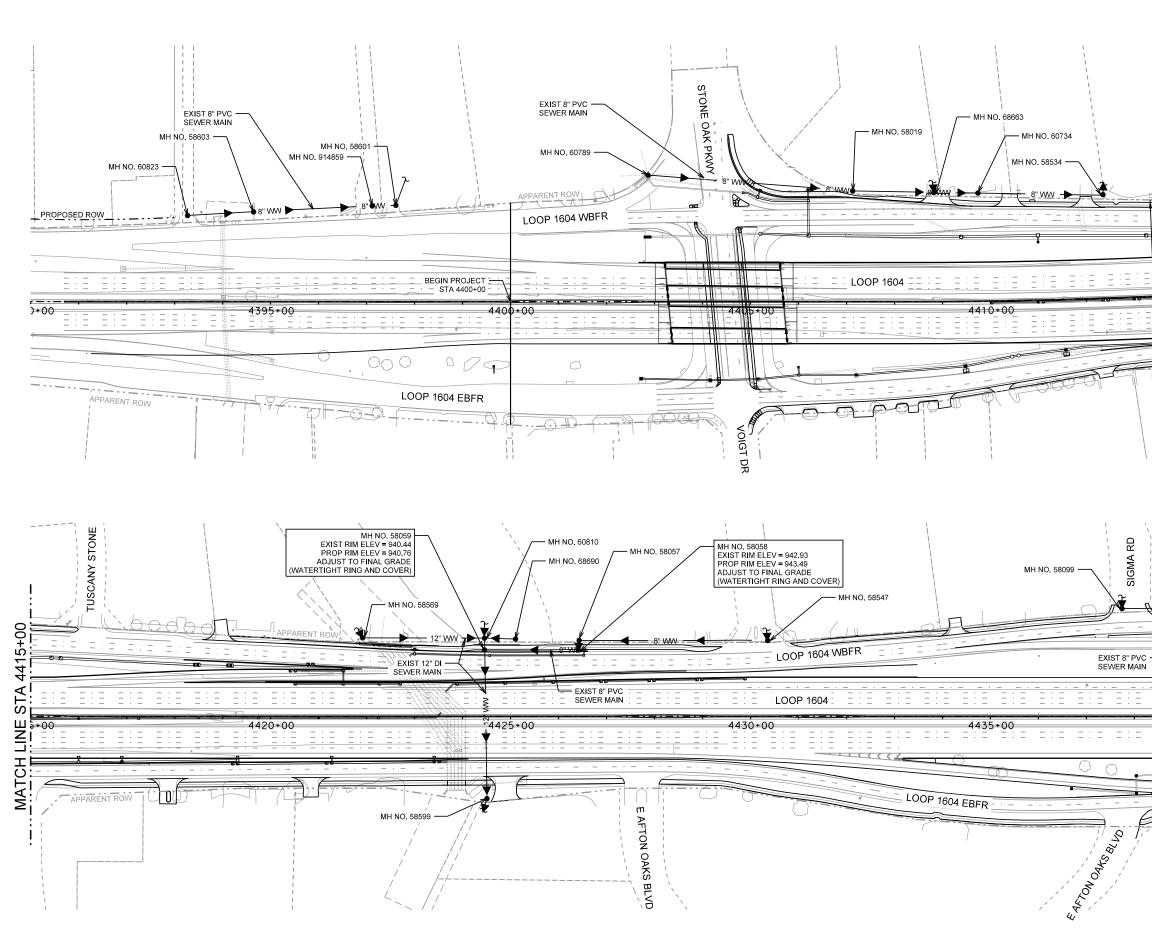
AUSTIN REGIONAL OFFICE 12100 PARK 35 CIRCLE, BUILDING A AUSTIN, TX 78753-1808 PHONE (512) 339-2929 FAX (512) 339-3795 SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TX 78233-4480 PHONE (210) 290-3096 FAX (210) 545-4329



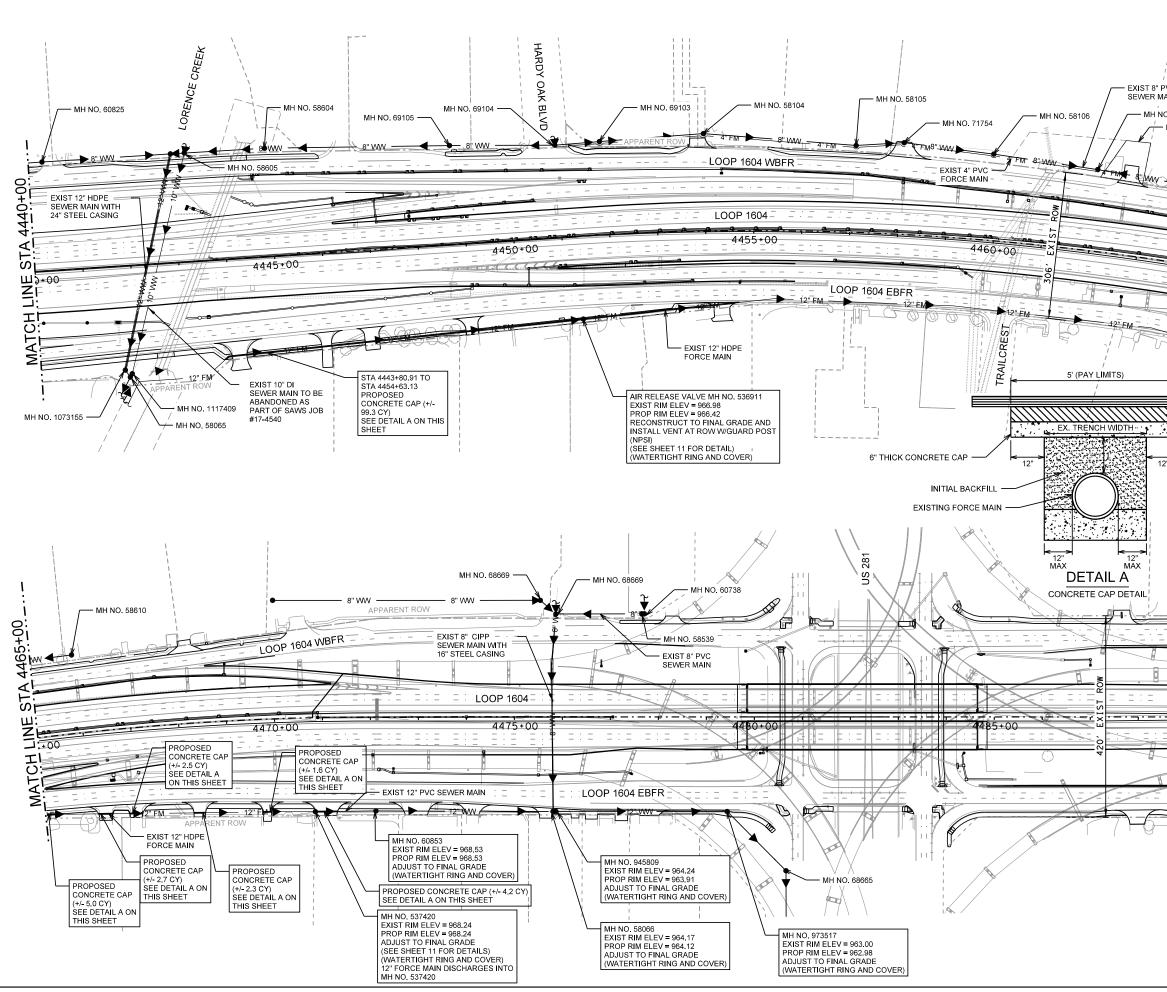
ITEM NO.	DESCRIPTION	UNIT	SHEET 6 OF 11	SHEET 7 OF 11	SHEET 8 OF 11	SHEET 9 OF 11	SHEET 10 OF 11	TOTAL QUANTITIES
500 6001	MOBILIZATION	LS						1
7194 6001	SAN SWR TRENCH EXCAVATION PROTECTION	LF		1269				1269
7194 6016	SAN SWR STRUCTURES (RECONSTRUCT EX MH)*	EA		1				1
7194 6018	EXISTING MANHOLE ADJUSTMENTS*	EA	2	5	1			8
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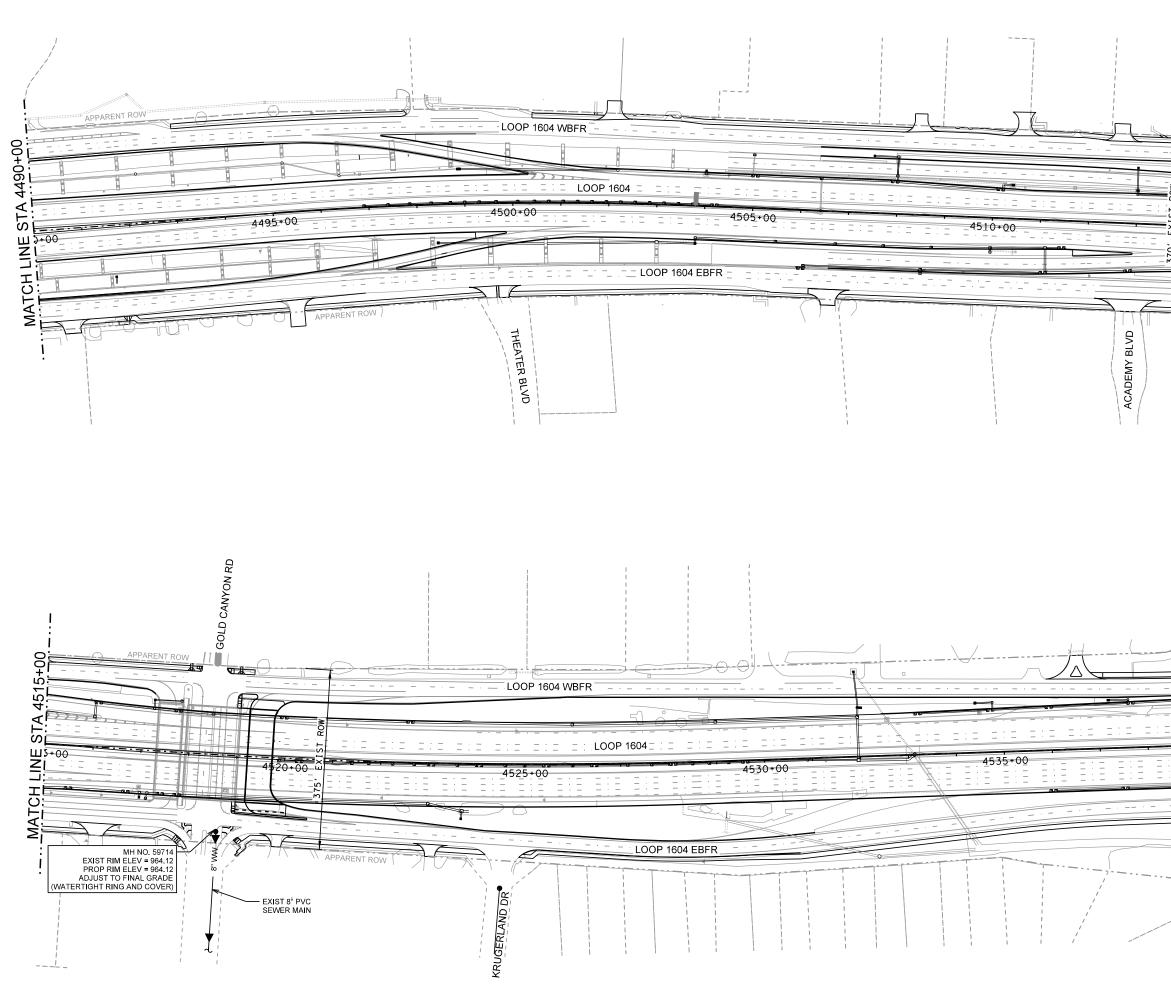
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	LOOP 1604 SEGMENT 4 (STONE OAK PARKWAY TO EMERALD FOREST) QUANTITY SUMMARY TABLE							
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6 STATE DISTRICT	STATE COUNTY NO.				JOB NO. 130	LP1604 SHEET NO. 5		
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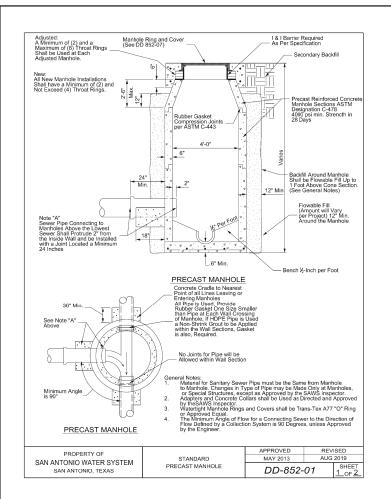
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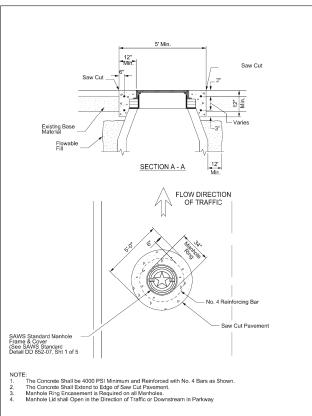


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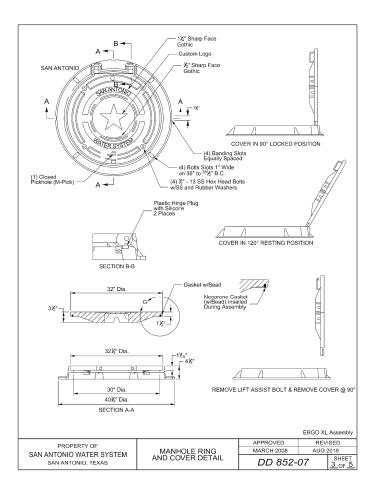


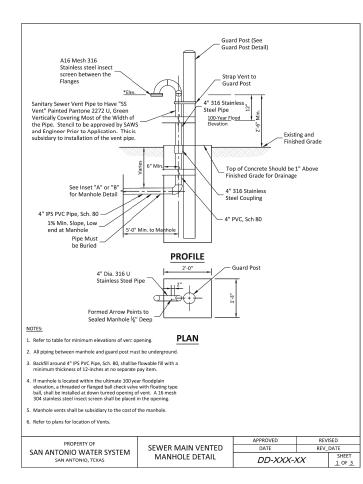
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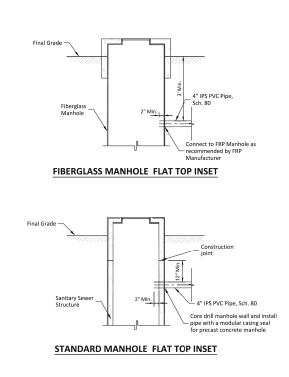




PROPERTY OF		APPROVED	REVISED	
SAN ANTONIO WATER SYSTEM	MANHOLE RING ENCASEMENT DETAIL	AUGUST 2009	AUG 2019	
SAN ANTONIO WATER STSTEM SAN ANTONIO, TEXAS		DD 852-	03 <u></u>	HEET OF 2







PROPERTY OF	SEWER MAIN VENTED MANHOLE DETAIL	APPROVED	REVISED	
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