Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with 30 TAC 213.

Administrative Review

1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

   To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: http://www.tceq.texas.gov/field/eapp.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

   An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.

4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: HEB AUSTIN 14						**2. Regulated Entity No.:** RN102734506			
3. Customer Name: TESLA, INC.						**4. Customer No.:** TBD			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension	(Exception)		
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	(EXP)	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		(Non-residential)			**8. Site (acres):**		4.10 ACRES	
9. Application Fee:	$500.00		**10. Permanent BMP(s):**			NONE TO BE INSTALLED			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A			
13. County:	WILLIAMSON		**14. Watershed:**			TURKEY CREEK - BRUSHY CREEK			

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	__	__	__
Region (1 req.)	__	__	__
County(ies)	__	__	__
Groundwater Conservation District(s)	__Edwards Aquifer Authority __Barton Springs/ Edwards Aquifer __Hays Trinity __Plum Creek	__Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	__Austin __Buda __Dripping Springs __Kyle __Mountain City __San Marcos __Wimberley __Woodcreek	__Austin __Bee Cave __Pflugerville __Rollingwood __Round Rock __Sunset Valley __West Lake Hills	__Austin __Cedar Park __Florence __Georgetown __Jerrell __Leander __Liberty Hill __Pflugerville __Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	__	__	__	__	__
Region (1 req.)	__	__	__	__	__
County(ies)	__	__	__	__	__
Groundwater Conservation District(s)	__ Edwards Aquifer Authority __Trinity-Glen Rose	__Edwards Aquifer Authority	__Kinney	__EAA __Medina	__EAA __Uvalde
City(ies) Jurisdiction	__Castle Hills __Fair Oaks Ranch __Helotes __Hill Country Village __Hollywood Park __San Antonio (SAWS) __Shavano Park	__Bulverde __Fair Oaks Ranch __Garden Ridge __New Braunfels __Schertz	NA	__San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

David Whelan (Dewberry)

Print Name of Customer/Authorized Agent

09/06/23

Signature of Customer/Authorized Agent Date

FOR TCEQ INTERNAL USE ONLY				
Date(s)Reviewed:		Date Administratively Complete:		
Received From:		Correct Number of Copies:		
Received By:		Distribution Date:		
EAPP File Number:		Complex:		
Admin. Review(s) (No.):		No. AR Rounds:		
Delinquent Fees (Y/N):		Review Time Spent:		
Lat./Long. Verified:		SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):			Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

Contributing Zone Exception Request Form

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Contributing Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Tesla, Inc. / David Whelan (Dewberry

Date: 09/06/23

Signature of Customer/Agent:

Regulated Entity Name: HEB AUSTIN 14

Project Information

1. County: Williamson
2. Stream Basin: Turkey Creek - Bushy Creek
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

   Contact Person: Jacob Finley
   Entity: Tesla, Inc.
   Mailing Address: 3500 Deer Creek Rd.
   City, State: Palo Alto, CA Zip: 94304
   Telephone: (346) 546-7527 Fax: N/A
   Email Address: jfinley@tesla.com

5. Agent/Representative (If any):

   Contact Person: David Whelan
   Entity: Dewberry
   Mailing Address: 2835 Brandywine Rd. #100
   City, State: Atlanta, GA Zip: 30341
   Telephone: (919)656-7513 Fax: N/A
   Email Address: dwhelan@dewberry.com

6. Project Location

   ☒ This project is inside the city limits of Cedar Park.
   ☐ This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
   ☐ This project is not located within any city limits or ETJ.

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

   A portion of parcel R427550, located at 2800 East Whitestone Blvd., Cedar Park, TX 78613, is to undergo construction. When coming from TX-183A, turn east on E. Whitestone Blvd. The project site will be on the right in 1.8 miles. It is the curved part of the shopping area near the entrance to the gas station from the parking lot.

8. ☒ **Attachment A - Road Map**. A road map showing directions to and location of the project site is attached. The map clearly shows the boundary of the project site.

9. ☒ **Attachment B - USGS Quadrangle Map**. A copy of the USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) should clearly show:

   ☒ Project site boundaries.
   ☒ USGS Quadrangle Name(s).

10. ☒ **Attachment C - Project Narrative**. A detailed narrative description of the proposed project is provided at the end of this form. The project description is consistent throughout the application and contains, at a minimum, the following details:

    ☒ Area of the site
    ☐ Offsite areas
    ☒ Impervious cover
    ☐ Permanent BMP(s)
    ☒ Proposed site use
    ☒ Site history
    ☒ Previous development
    ☒ Area(s) to be demolished

11. Existing project site conditions are noted below:

    ☒ Existing commercial site

☐ Existing industrial site
☐ Existing residential site
☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☐ Undeveloped (Undisturbed/Not cleared)
☐ Other: _____

12. ☒ **Attachment D - Nature Of Exception**. A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter B for which an exception is being requested have been identified in the description.

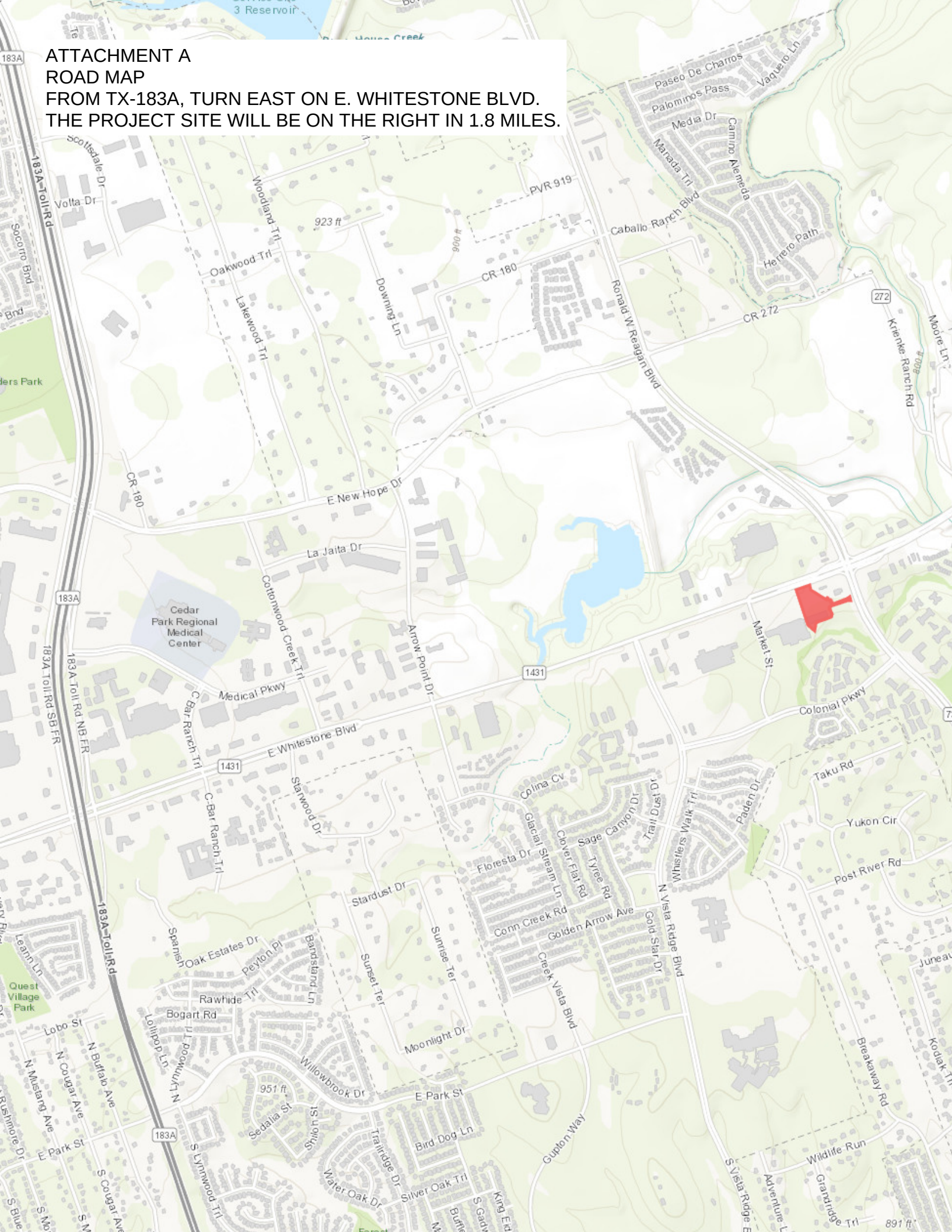
13. ☒ **Attachment E - Equivalent Water Quality Protection**. Documentation demonstrating equivalent water quality protection for surface streams which enter the Edwards Aquifer is attached.

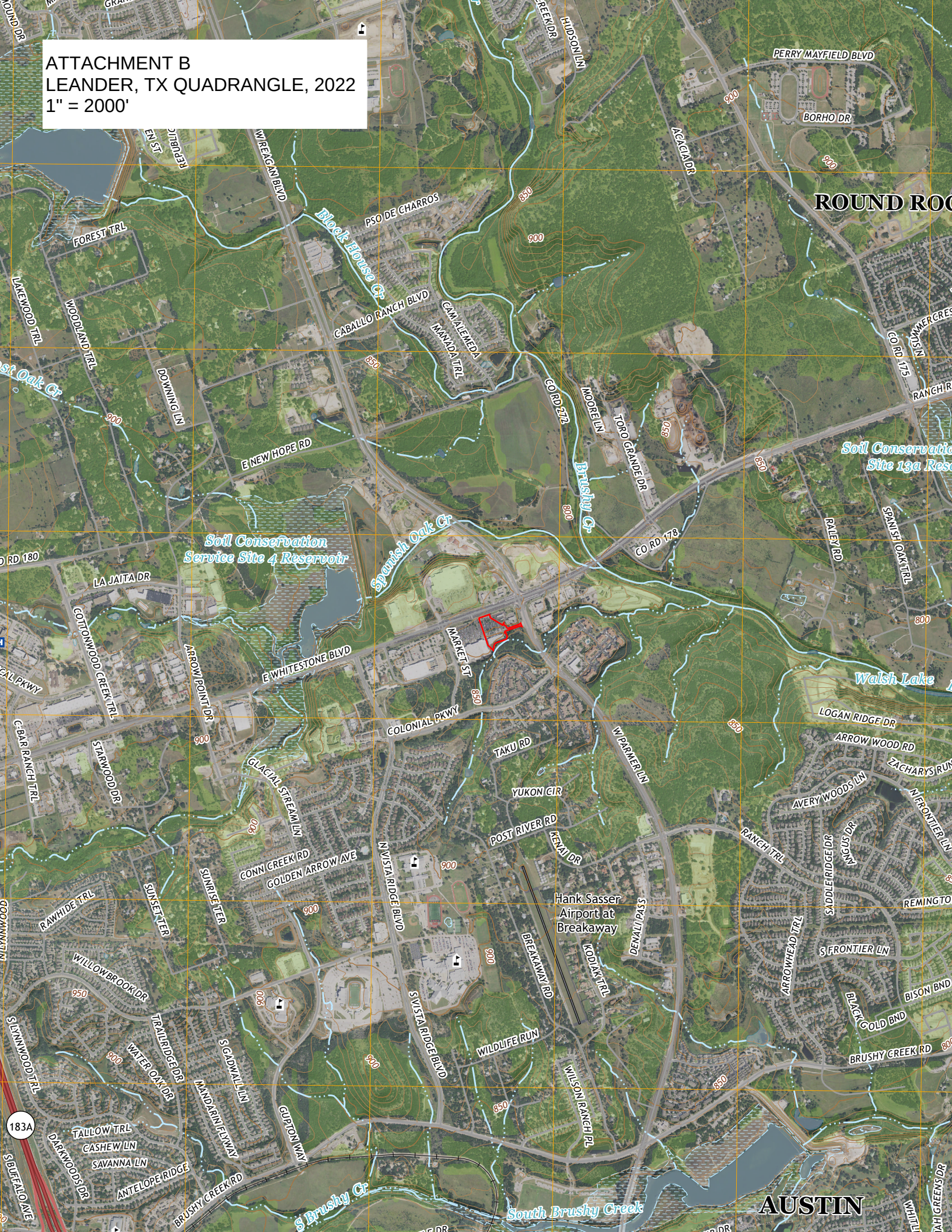
Administrative Information

14. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.

15. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

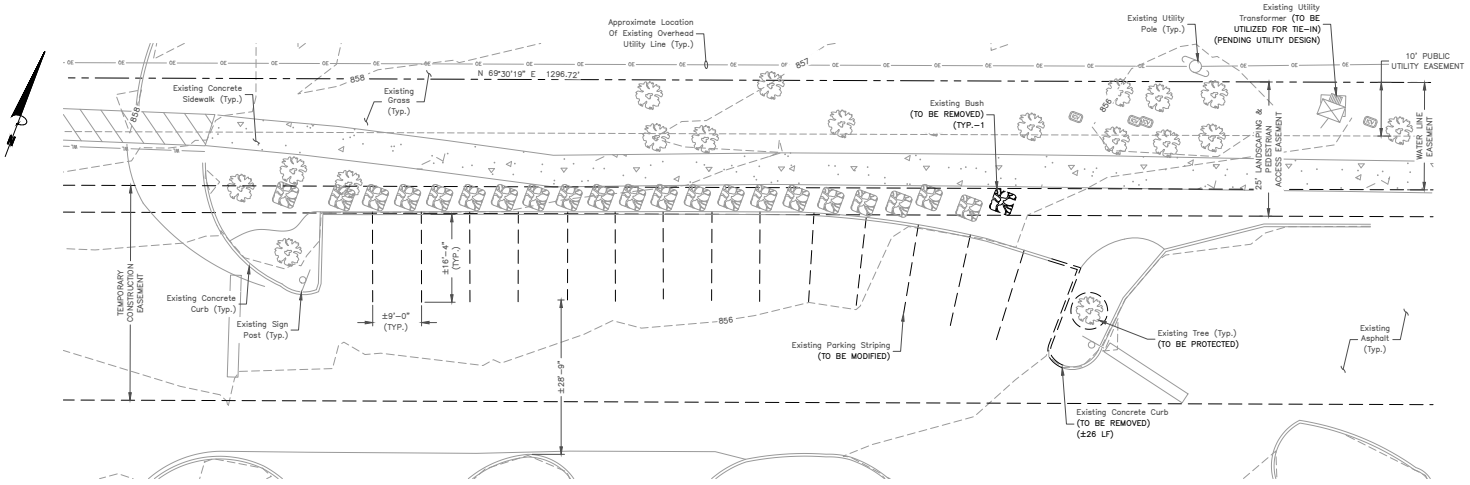
ATTACHMENT A
ROAD MAP
FROM TX-183A, TURN EAST ON E. WHITESTONE BLVD.
THE PROJECT SITE WILL BE ON THE RIGHT IN 1.8 MILES.



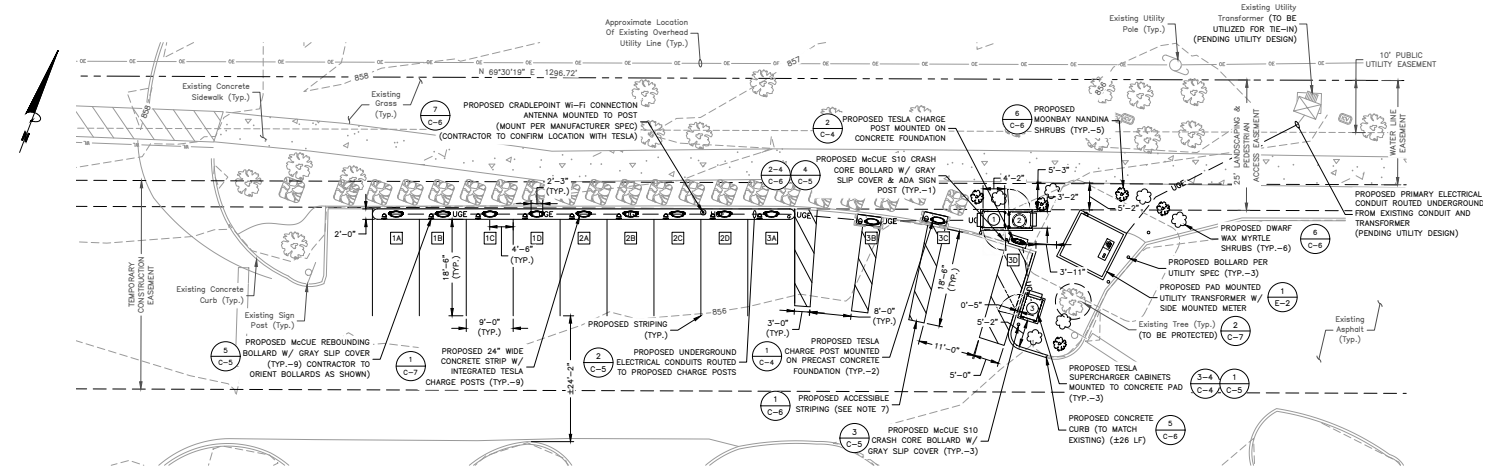

ATTACHMENT B
LEANDER, TX QUADRANGLE, 2022
1" = 2000'
ROUND ROC
AUSTIN
Hank Sasser Airport at Breakaway
Soil Conservation Service Site 4 Reservoir
Soil Conservation Site 13a Rese
Walsh Lake
Block House Cr
Brushy Cr
Spanish Oak Cr
South Brushy Creek
PERRY MAYFIELD BLVD
BORHO DR
ACACIA DR
HUDSON LN
W REAGAN BLVD
PSO DE CHARROS
FOREST TRL
LAKEWOOD TRL
WOODLAND TRL
DOWNING LN
CABALLO RANCH BLVD
CAM ALEMEDA
MANADA TRL
CO RD 272
MOORE LN
TORO GRANDE DR
CO RD 175
E NEW HOPE RD
CO RD 178
RALEY RD
SPANISH OAK TRL
LA JAITA DR
COTTONWOOD CREEK TRL
ARROW POINT DR
E WHITESTONE BLVD
MARKET ST
COLONIAL PKWY
C-BAR RANCH TRL
STARWOOD DR
GLACIAL STREAM LN
TAKU RD
YUKON CIR
W PARMER LN
LOGAN RIDGE DR
ARROW WOOD RD
ZACHARYS RUN
AVERY WOODS LN
N FRONTIER LN
POST RIVER RD
KENAI DR
RANCH TRL
SADDLERIDGE DR
ANGUS DR
CONN CREEK RD
GOLDEN ARROW AVE
N VISTA RIDGE BLVD
SUNRISE TER
SUNSET TER
RAWHIDE TRL
DENALI PASS
BREAKAWAY RD
KODIAK TRL
ARROWHEAD TRL
S FRONTIER LN
BISON BND
BLACK GOLD BND
WILLOWBROOK DR
S LYNNWOOD TRL
TRAILRIDGE DR
WATER OAK DR
S GADWALL LN
MANDARIN FLYWAY
S VISTA RIDGE BLVD
WILDLIFE RUN
WILSON RANCH PL
BRUSHY CREEK RD
GUPTON WAY
TALLOW TRL
CASHEW LN
SAVANNA LN
ANTELOPE RIDGE
DARKWOODS DR
S BUFFALO AVE
183A

ATTACHMENT C
PROJECT NARRATIVE

A portion of parcel R427550, located at 2800 East Whitestone Blvd., Cedar Park, TX 78613, is to undergo construction to add 12 electric vehicle charge posts and supporting equipment near East Whitestone Blvd. The parcel is approximately 178,600 square feet (4.10 acres) and the limits of the project are approximately 3,115 square feet. This site is currently in use as a commercial grocery store with 3.570 acres of the parcel having impervious cover. This project will add 300 square feet (0.009 acres) of impervious cover and convert 100 square feet (0.002 acres) of existing paved parking lot to infiltrating soil. No permanent BMPs are to be used, beyond those which are already present on site. This parcel will continue to be used as a commercial store, but will offer electric vehicle charging. No significant demolition is to take place beyond the 100 square feet of pavement and adjoining curb, which will then expand the existing island. See project drawings 1 & 2 below for existing and proposed conditions.



EXISTING CONDITIONS PLAN 1



EQUIPMENT & PARKING PLAN 2

PLANT SCHEDULE

QUANT	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
SHRUBS				
6		MYRICA PUSILLA	DWARF WAX MYRTLE	5 GAL.
5		NANDINA MOONBAY	MOONBAY NANDINA	5 GAL.

NOTE: See plan view for planting layout. Most of the material can be field located. Contractor to confirm plants with Tesla Construction Manager.

ATTACHMENT D
NATURE OF EXCEPTION

An exemption is being requested due to the small size of the area being disturbed and low net change to the amount of impervious surface. The parcel currently has approximately 3.570 of 4.100 acres imperviously covered and will have 3.577 acres imperviously covered at project completion. The net change of 0.007 acres is significantly under the 5 acres stated in 30 TAC §213 Subchapter B as the intended target for this regulation.

ATTACHMENT E
EQUIVALENT WATER QUALITY PROTECTION

Not applicable due to area of impact exemption.

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Tesla, Inc. / David Whelan (Dewberry)

Date: 09/06/23

Signature of Customer/Agent:

Regulated Entity Name: HEB Austin 14

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

   ☐ The following fuels and/or hazardous substances will be stored on the site: _____

   These fuels and/or hazardous substances will be stored in:

   ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☐ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. ☒ **Attachment C - Sequence of Major Activities**. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Turkey Creek - Brushy Creek

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

7. ☒ **Attachment D – Temporary Best Management Practices and Measures**. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices**. A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of 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.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

ATTACHMENT A

SPILL RESPONSE ACTION

Spill Preparedness and Practices

Materials necessary for possible spill cleanup (e.g. absorbent pads, personal protective equipment/devices, gloves, brooms, bags, etc) shall be kept in the material storage area, and their use and intention shall be clearly marked.

Personnel at the site shall be trained in the use and procedures regarding spill containment.

Spills shall be immediately addressed. In the event of a large spill, contact the local fire department for assistance.

Areas of hazardous spill shall be contained, and isolated from public/worker access.

Any hazardous spill shall be appropriately reported to local, state, and Federal officials, as required.

Any spills shall be the responsibility of the site superintendent or project manager, including daily inspections. Other back-up personnel shall be appointed and shall have full authority to implement or modify any response to prevent future spills.

The spill containment plan, and responsible parties, with contact information, shall be posted at the site.

The Reportable Quantities depends on the substance released and where released. See site specific spill responses below.

In Texas, upon determining that a reportable discharge or spill has occurred, the responsible person must notify the state. The threshold quantity that triggers the requirement to report a spill is called the **reportable quantity** (**RQ**). The reportable quantity depends on the type of substance released and where released (e.g. into water vs. on land); different kinds of spills are subject to different provisions of state and federal rules.

1. Hazardous Substances – Spilled onto Land – See “Final RQ” in Table 302.4 Title 40 CFR
2. Petroleum product, used oil – Spilled onto Land by non-exempt PST facility - 25 Gallons
3. From petroleum storage tanks, underground or aboveground – into water – enough to create a sheen.

ATTACHMENT B

POTENTIAL SOURCES OF CONTAMINATION

Though construction will be limited to the construction of electrical equipment pads and resurfacing a section of parking, the site itself will likely receive additional visitors which could lead to an increase in trash at the location. Particulate matter from increased automobile traffic is a potential source for increased contamination of the ground water. However, in general there the development is not expected to expand the potential sources of contamination at the site.

ATTACHMENT C

SEQUENCE OF MAJOR ACTIVITIES

1. INSTALL EROSION CONTROL MEASURES (BMPS) PER APPROVED PLANS.
   [0.00 AC+/- DISTURBED]
2. EXCAVATE, GRADE, AND COMPACT SUB-BASE.
   [0.01 AC+/- DISTURBED]
3. INSTALL ELECTRICAL CONDUIT.
   [0.00 AC+/- DISTURBED]
4. INSTALL/PLACE CONCRETE FOUNDATIONS
   [0.00 AC+/- DISTURBED]
5. INSTALL CONDUCTORS
   [0.00 AC+/- DISTURBED]
6. REMOVE BMPS
   [0.00 AC+/- DISTURBED]
7. REVEGETATE ANY VEGETATED AREAS DISTURBED FROM CONSTRUCTION.
   [0.00 AC+/- DISTURBED]

ATTACHMENT D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

1. FIBER ROLLS
    - FIBER ROLLS SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM AND ALONG A CONSTANT ELEVATION TO FILTER SEDIMENT FROM THE RUNOFF OF THE DISTURBED AREAS.
    - ADDITIONAL FIBER ROLLS SHALL BE PLACED ALONG THE DOWNSTREAM SHALLOW CONCENTRATED FLOW PATH TO FURTHER FILTER ANY SEDIMENT FROM THE RUNOFF.
    - FIBER ROLLS SHALL BE PLACED SUCH THAT THEY ARE AT A CONSTANT ELEVATION AND ARE PERPENDICULAR TO THE SHEET FLOW AND SHALLOW CONCENTRATED FLOW. FIBER ROLLS SHALL NOT REDIRECT RUNOFF, BUT INSTEAD ALLOW RUNOFF TO FOLLOW EXISTING DRAINAGE PATTERNS.

ATTACHMENT E

REQUEST TO TEMPORARILY SEAL A FEATURE

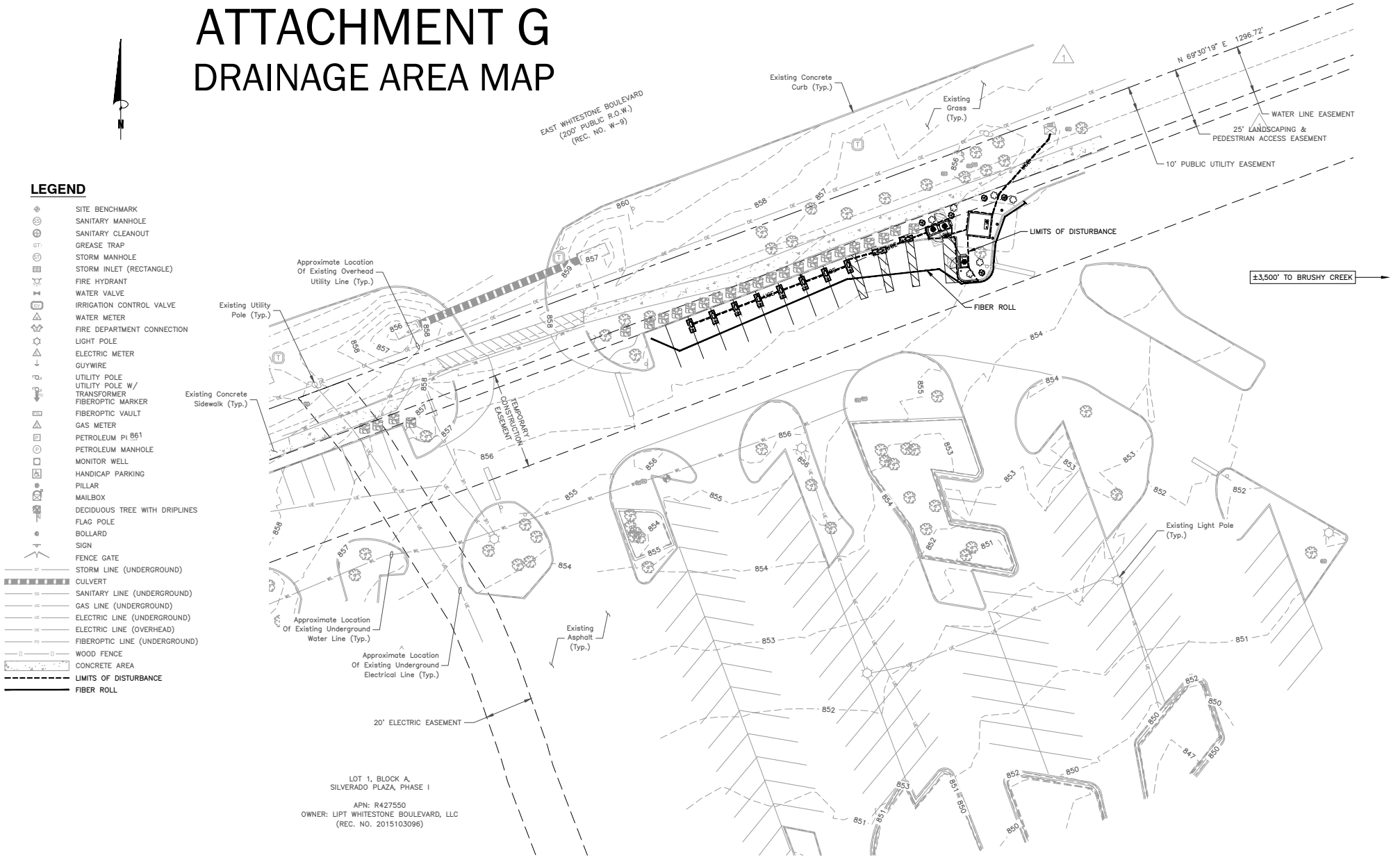
1. NOT APPLICABLE - NO TEMPORARY SEALING OF NATURALLY-OCCURING SENSITIVE FEATURES ON THE SITE ARE PROPOSED

ATTACHMENT F

STRUCTURAL PRACTICES

1. FIBER ROLLS WILL BE PLACED ALONG AREAS RECEIVING SHEET FLOW DISCHARGE FROM THE DISTURBED AREAS.

ATTACHMENT G
DRAINAGE AREA MAP



ATTACHMENT H

TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS

1. NOT APPLICABLE - NO TEMPORARY SEDIMENT PONDS ARE PROPOSED.

ATTACHMENT I

INSPECTION AND MAINTENANCE FOR BMPS

GENERAL FOR ALL BMPS.

- ALL CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. IF PERIODIC INSPECTIONS BY THE APPLICANT OR THE EXECUTIVE DIRECTOR, OR OTHER INFORMATION INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS.
- IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS TO WATER QUALITY (E.G., FUGITIVE SEDIMENT IN STREET BEING WASHED INTO SURFACE STREAMS OR SENSITIVE FEATURES BY THE NEXT RAIN).
- SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE WILL BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES (E.G., SCREENING OUTFALLS, PICKED UP DAILY).

SITE SPECIFIC BMPS.

1. FIBER ROLLS
    - INSPCT FIBER ROLLS DAILY AND IMMEDIATELY AFTER PRECIPITATION UNTIL SITE IS FULLY STABILIZED.
    - REMOVE AND DISPOSE OF DEBRIS AND ACCUMULATED SEDIMENT.
    - REPLACE/REINSTALL ANY WORN, DAMAGED, DISTURBED ROLLS.
    - MAINTAIN AND SECURE A DAILY INSPECTION LOG ONSITE AT ALL TIMES.
    - INSPECTIONS SHALL BE PERFORMED BY PERSONNEL THAT UNDERSTANDS FUNCTION AND OPERATION OF BMPS. PERSONNEL SHALL BE COMPETENT AT IDENTIFYING AND REPAIRING AREAS OF CONCERN.

ATTACHMENT J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

GENERAL FOR ALL BMPS.

- RECORDS MUST BE KEPT AT THE SITE OF 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.
- STABILIZATION PRACTICES MUST BE INITIATED AS SOON AS PRACTICABLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

SITE SPECIFIC BMPS.

1. TEMPORARY VEGETATION
    - ALL DISTURBED AREAS LEFT EXPOSED SHALL BE COVERED IN TEMPORARY VEGETATION OR MULCH.
    - TEMPORARY SEEDING SHALL CONFORM TO LOCAL GERMINATION CONDITIONS.
2. PERMANENT VEGETATION
    - ALL DISTURBED AREAS SHALL BE FULLY STABILIZED WITH LOCAL CLIMATIC APPROPRIATE VEGETATION OR LANDSCAPING.
    - ALL PERMANENT VEGETATION SHALL BE GUARANTEED FOR A MINIMUM OF 2 YEARS OR REPLACED AT NO CHARGE BY THE CONTRACTOR.

*** Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days.

ATTACHMENT K

ADMINISTRATIVE INFORMATION

- ALL STRUCTURAL CONTROLS WILL BE INSPECTED AND MAINTAINED ACCORDING TO THE SUBMITTED AND APPROVED OPERATION AND MAINTENANCE PLAN FOR THE PROJECT.
- IF ANY GEOLOGIC OR MANMADE FEATURES, SUCH AS CAVES, FAULTS, SINKHOLES, ETC., ARE DISCOVERED, ALL REGULATED ACTIVITIES NEAR THE FEATURE WILL BE IMMEDIATELY SUSPENDED. THE APPROPRIATE TCEQ REGIONAL OFFICE SHALL BE IMMEDIATELY NOTIFIED. REGULATED ACTIVITIES MUST CEASE AND NOT CONTINUE UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE AQUIFER FROM ANY ADVERSE IMPACTS.
- SILT FENCES, DIVERSION BERMS, AND OTHER TEMPORARY EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED AND MAINTAINED AS APPROPRIATE TO PREVENT POLLUTANTS FROM ENTERING SENSITIVE FEATURES DISCOVERED DURING CONSTRUCTION.

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Jacob Finley,
Print Name

Design Manager,
Title - Owner/President/Other

of Tesla Inc.,
Corporation/Partnership/Entity Name

have authorized Agent: David Whelan
Print Name of Agent/Engineer

of Dewberry
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

09/07/2023
Date

THE STATE OF Texas §

County of Montgomery §

BEFORE ME, the undersigned authority, on this day personally appeared Jacob M. Finley known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 7th day of Sept. 2023.

NOTARY PUBLIC

SANDRA PRIM
Notary Public, State of Texas
Comm. Expires 08-02-2027
Notary ID 134487802

Sandra Prim
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 08-02-2027

Owner Authorization Form

Texas Commission on Environmental Quality
for Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

Land Owner Authorization

I, Steven Schnur, Vice President of LIPT Whitestone Boulevard, LLC
Land Owner Signatory Name — Land Owner Name (Legal Entity or Individual)

am the owner of the property located at
2800 E Whitestone Blvd, Cedar Park, TX
Legal description of the property referenced in the application

and am duly authorized in accordance with §213.4(c)(2) and §213.4(d)(1) or §213.23(c)(2) and §213.23(d) relating to the right to submit an application, signatory authority, and proof of authorized signatory.

I do hereby authorize Tesla Inc.
Applicant Name (Legal Entity or Individual)

to conduct Contributing Zone Exception Request
Description of the proposed regulated activities

at 2800 E Whitestone Blvd.
Precise location of the authorized regulated activities

Land Owner Acknowledgement

I understand that LIPT Whitestone Boulevard, LLC
Land Owner Name (Legal Entity or Individual)

Is ultimately responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation even if the responsibility for compliance and the right to possess and control the property referenced in the application has been contractually assumed by another legal entity. I further understand that any failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Land Owner Signature

Land Owner Signature

10/31/23
Date

THE STATE OF § Maryland

County of § Baltimore City

BEFORE ME, the undersigned authority, on this day personally appeared Steven Schnur known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 31 day of October

NOTARY PUBLIC

CATHERINE IRWIN
Notary Public - State of Maryland
Baltimore City
My Commission Expires Jul 26, 2027

Catherine J. Irwin
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: July 26, 2027

Attached: (Mark all that apply)

- ☐ Lease Agreement
- ☐ Signed Contract
- ☐ Deed Recorded Easement
- ■ Other legally binding document

Applicant Acknowledgement

I, Jacob Finley (Applicant Signatory Name) of Tesla Inc. (Applicant Name (Legal Entity or Individual))

acknowledge that LIPT Whitestone Boulevard, LLC (Land Owner Name (Legal Entity or Individual))

has provided Tesla Inc. (Applicant Name (Legal Entity or Individual))

with the right to possess and control the property referenced in the Edwards Aquifer protection plan.

I understand that Tesla Inc. (Applicant Name (Legal Entity or Individual))

is contractually responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation. I further understand that failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Applicant Signature

Applicant Signature

11/02/2023
Date

THE STATE OF § Texas

County of § Montgomery

BEFORE ME, the undersigned authority, on this day personally appeared Jacob Finley known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 2 day of November 2023

Jessica Relle
NOTARY PUBLIC

JESSICA RELLE
Notary Public, State of Texas
Comm. Expires 08-23-2025
Notary ID 128622301

Jessica Relle
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 08/23/2025

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: HEB AUSTIN 14
Regulated Entity Location: 2800 E Whitestone Blvd.
Name of Customer: Tesla, Inc.
Contact Person: Jacob Finley Phone: (346) 546-7527
Customer Reference Number (if issued):CN _____
Regulated Entity Reference Number (if issued):RN 102734506

Austin Regional Office (3373)

☐ Hays ☐ Travis ☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☐ Austin Regional Office
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☒ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	1 Each	$ 500.00
Extension of Time	Each	$

Signature: _____ Date: 09/06/23

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

Project	*Project Area in Acres*	*Fee*
One Single Family Residential Dwelling	< 5	$650
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	$1,500 $3,000 $4,000 $6,500 $8,000 $10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	$3,000 $4,000 $5,000 $6,500 $8,000 $10,000

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)*

☒ Other **Exemption Due to size of work area.**

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN		**RN 102734506**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	09/06/23

☒ New Customer ☐ Update to Customer Information ☒ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
Tesla, Inc.	

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
	19121977292		

11. Type of Customer:	☒ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship	☐ Other:

12. Number of Employees	**13. Independently Owned and Operated?**
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher	☐ **Yes** ☒ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:	3500 Deer Creek Rd.						
	City	Palo Alto	**State**	CA	**ZIP**	94304	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	jfinley@tesla.com

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(346) 546-7527		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

HEB Austin 14

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	2800 E Whitestone Blvd.							
	City	Cedar Park	**State**	TX	**ZIP**	78613	**ZIP + 4**	
24. County	USA							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Grocery Store

34. Mailing Address:	**Attn: LIPT Whitestone Boulevard LLC**							
	PO Box 839999							
	City	**San Antonio**	**State**	**TX**	**ZIP**	**78283**	**ZIP + 4**	**3999**
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
( ) -		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
		11-01083101 11-01083101A 11-08063001 11-13052301		
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	David Whelan	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(919 **)** 656-7513		**( )** -	dwhelan@dewberry.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Dewberry	**Job Title:**	Project Manager	
Name *(In Print):*	David Whelan		**Phone:**	**(** 919 **)** 656- **7513**
Signature:			**Date:**	09/06/23

CEDAR PARK, TX - H-E-B

SITE ADDRESS:
2800 E WHITESTONE BLVD.
CEDAR PARK, TX 78613
TRT ID: 58811
JB-7864358-00

TCEQ INFORMATION

TCEQ EDWARD AQUIFER PROTECTION PROGRAM ID NO. – TBD

PROPERTY SITE DEVELOPMENT PERMITS

1. SD–02–00030 – ORIGINAL SD PERMIT HEB SILVERADO PLAZA PHASE I
2. SD–02–00049 – HEB FUEL STATION SILVERADO PLAZA PHASE I
3. SD–08–00020 – HEB AUSTIN NO. 2 CAR WASH
4. SD–11–00018 – HEB NO. 26 EXPANSION
5. SD–17–00010 – HEB AUSTIN 26 CURBSIDE EXPANSION
6. 2023–15–SD – ADDITIONAL OF TESLA CHARGING STATIONS

CITY OF CEDAR PARK NOTES

1. ALL RESPONSIBILITY FOR THE ACCURACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF CEDAR PARK MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. ALL DISTURBED AREAS SHALL BE RE–VEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF CEDAR PARK'S ORDINANCES.
3. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING POND DURING ALL CONSTRUCTION ACTIVITY PRIOR TO FINAL CERTIFICATE OF OCCUPANCY. COORDINATE WITH CITY OF CEDAR PARK'S STORMWATER COORDINATOR , DENNIS NIELSEN – (512) 401–5359

SITE INFORMATION

PROPOSED TESLA EV SITE ADDRESS:
2800 E WHITESTONE BLVD.
CEDAR PARK, TX 78613

PROPERTY OWNER:
LIPT WHITESTONE BOULEVARD LLC
PO BOX 839999
SAN ANTONIO, TX 78283–3999

PARCEL ID:
APN: R550756

POWER COMPANY:
PEC
CONTACT: BEN WOODS
Ben.Woods@peci.com
ACCOUNT #: 3001571973

COUNTY:
WILLIAMSON, TX

LATITUDE*:
30° 32' 1.59" N

LONGITUDE*:
97° 47' 3.48" W
*BASED ON GOOGLE EARTH

CONTACT PROJECT MANAGER:
DAVID WHELAN
DEWBERRY ENGINEERS INC.
(617) 531–0765
DWHELAN@DEWBERRY.COM

TDLR REFERENCE:
JEFF GUTKNECHT
(214) 808–9284
TDLR#: 2023017065

CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

CITY OF CEDAR PARK BUILDING & ENERGY CODES, CONSISTENT WITH THE FOLLOWING CODES:

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRIC CODE (NEC)

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

PROJECT DESCRIPTION

- INSTALL (11) TESLA CHARGING POSTS
- INSTALL (3) TESLA SUPERCHARGER CABINETS WITH EV LITE MOUNTED BREAKERS/DISCONNECTS
- INSTALL (1) UTILITY TRANSFORMER FOUNDATION

FLOOD ZONE INFORMATION

FEMA FLOOD INSURANCE RATE MAP NO. 48491C0470F WITH EFFECTIVE DATE 12/20/2019 INDICATES THIS SURVEY AREA IS LOCATED IN ZONE X (AREA OF MINIMAL FLOOD HAZARD)

ZONING INFORMATION

JURISDICTION: CITY OF CEDAR PARK, TX

APN: R550756

LAND USE: COMMERCIAL

LEGAL DESCRIPTION: LOT 1, BLOCK A, SILVERADO PLAZA PHASE I

DOCUMENT NO.: CABINET W, SLIDES 9 & 10

IMPERVIOUS COVER NET CHANGE: +0.20% (3.570 TO 3.577 AC)

AERIAL MAP

LOCATION MAP

DRAWING INDEX

SHT. NO.	SHEET TITLE
T–1	TITLE SHEET
GN–1	GENERAL NOTES I
GN–2	GENERAL NOTES II
C–0	EXISTING SITE PLAN
C–1	SITE PLAN
C–2	EXISTING CONDITIONS PLAN
C–3	EQUIPMENT & PARKING PLAN
C–4	CONSTRUCTION DETAILS I
C–5	CONSTRUCTION DETAILS II
C–6	CONSTRUCTION DETAILS III
C–7	CONSTRUCTION DETAILS IV
E–1	ONE–LINE DIAGRAM & SCHEDULES I
E–2	ELECTRICAL DETAILS
G–1	GROUNDING PLAN, SCHEMATIC & DETAILS

BEFORE SCALING

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE TESLA REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL BEFORE YOU DIG

Texas 811

TEXAS ONE CALL
811 OR 1–800–344–8377

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry®
Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
DALLAS, TX 75244
TX FIRM #: F-6548
PHONE: 469.232.5200

STATE OF TEXAS
DAVID S. WHELAN
150120
LICENSED
PROFESSIONAL ENGINEER
10/10/23

DAVID S. WHELAN
TX P.E. LICENSE 150120
EXP. 06/30/2024

DRAWN BY:	FG
CHECKED BY:	DSW
APPROVED BY:	JG
PROJECT #:	50123704
JOB #:	50159211

SUBMITTALS

REV.	DATE	DESCRIPTION
4	10/10/23	CITY COMMENTS
3	08/28/23	CITY COMMENTS
2	06/20/23	REVISED PER COMMENTS
1	05/19/23	REVISED PER COMMENTS
0	04/18/23	ISSUED AS FINAL
B	04/07/23	ISSUED FOR 90% REVIEW
A	03/27/23	ISSUED FOR 90% REVIEW

SITE NAME:
CEDAR PARK, TX – H–E–B
TRT ID: 58811
JB–7864358–00

SITE ADDRESS:
2800 E WHITESTONE BLVD
CEDAR PARK, TX 78613

CASE NO. 2023–15–SD

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T–1

SHEET 1 OF 14

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   GENERAL CONTRACTOR(s) OR SUB–CONTRACTOR(s) – CIVIL CONTRACTOR AND/OR ELECTRICIAN CONTRACTOR
   PROJECT OWNER/CONSTRUCTION MANAGER – TESLA
   PROJECT HOST – LEGAL PROPERTY OWNER
   ENGINEER – DEWBERRY ENGINEERS INC.

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT OWNER PRIOR TO THE COMMENCEMENT OF WORK.

3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE INSTALLATION AS INDICATED ON THE DRAWINGS FOR A FULLY FUNCTIONAL CHARGING STATION AND COMPLETE PROJECT.

6. THE SUB–CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON DRAWINGS, THE GENERAL CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE PROJECT ENGINEER. ONLY WRITTEN APPROVALS SHALL BE DEEMED TO CONFIRM ANY SUCH CHANGES AS BEING APPROVED.

8. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT UNIQUE JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK.

9. THE GENERAL CONTRACTOR SHALL REVIEW ROUTING OF CONDUIT, POWER AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING PLAN DRAWING. THE GENERAL CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONSTRUCTION MANAGER AND PROJECT HOST.

10. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE PROJECT HOST. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF GENERAL CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.

12. APPLICABLE BUILDING CODES:
    THE GENERAL CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
    THE GENERAL CONTRACTOR WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

    AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
    AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
    MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION

13. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

14. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.

15. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER GENERAL CONTRACTOR(S) AND/OR SUB–CONTRACTOR(S).

16. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.

17. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND GENERAL CONTRACTOR(S) AND/OR SUB–CONTRACTOR(S) TO THE SITE AND/OR BUILDING.

18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.

19. THE GENERAL CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

20. THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE PROJECT HOST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

21. THE GENERAL CONTRACTOR AND SUB–CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.

22. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2–A OR 2–A:10–B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.

23. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE PROJECT OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.

24. GENERAL CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS–BUILT REDLINES AND ALL SPECIFIED CLOSE–OUT DOCUMENTATION TO THE PROJECT OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.

25. THE GENERAL CONTRACTOR SHALL LEAVE THE WORK AREA AND SURROUNDING PREMISES IN A CLEAN CONDITION.

26. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).

27. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.

SITE WORK NOTES:

PART 1 – GENERAL

1.1 REFERENCES:
- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION–CURRENT EDITION).
- B. AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS)
- C. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- D. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:
- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE GENERAL CONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND VERIFIED FOR CONFORMANCE AND RELEASED BY THE ENGINEER WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE GENERAL CONTRACTOR(S) RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:
- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
- B. AVOID DAMAGE AND TAKE PROTECTIVE MEASURES TO THE SITE AND TO EXISTING FACILITIES, IMPROVEMENTS, STRUCTURES, PAVEMENTS, CURBS, AND LANDSCAPING DESIGNATED TO REMAIN. ANY DAMAGED PART SHALL BE REPAIRED AT SUB–CONTRACTOR(S) EXPENSE TO THE SATISFACTION OF THE PROJECT HOST.
- C. KEEP SITE FREE OF ALL PONDING OR STANDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES, IF REQUIRED, SHALL BE IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUB–CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE GENERAL CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- G. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE PROJECT OWNER AND/OR LOCAL UTILITIES.
- H. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE PROJECT HOST OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE PROJECT HOST AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- I. PROVIDE A MINIMUM 48–HOUR NOTICE TO THE PROJECT HOST AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
- J. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
- K. THE GENERAL CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS, RUBBISH, DEBRIS, STUMPS, STICKS, AND STONES.
- L. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH DEBRIS FROM THE SITE ON A DAILY BASIS.
- M. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT TREES, VEGETATION, AND ROOT SYSTEMS DURING CONSTRUCTION.
- N. CONTRACTOR TO COORDINATE POST CONSTRUCTION LANDSCAPING FINISHES WITH OWNER AND TESLA.

PART 2 – PRODUCTS

2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE	TOTAL PERCENT PASSING
1–1/2 INCH	100
1 INCH	75 TO 100
3/4 INCH	80 TO 100
3/8 INCH	35 TO 75
NO. 4	30 TO 60
NO. 30	7 TO 30
NO. 200	3 TO 15

2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL–GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW–SM).

2.3 ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS SHALL BE SELECT STRUCTURAL FILL MEETING THE GRADATION AND SOUNDNESS REQUIREMENTS IN ACCORDANCE WITH THE FOLLOWING:

SIEVE SIZE	TOTAL PERCENT PASSING
4 INCH	100
NO. 40	0 TO 70
NO. 200	0 TO 40

2.4 MATERIALS SHALL BE SUBSTANTIALLY FREE OF SHALE OR OTHER SOFT, POOR DURABILITY PARTICLES. IF TESTING IS ELECTED BY PROJECT OWNER, MATERIAL WITH A MAGNESIUM SULFATE SOUNDNESS LOSS EXCEEDING 30% WILL BE REJECTED.

2.5 COARSE AGGREGATE FOR SUBBASE COURSE SHALL CONFORM TO ASTM D2940.

2.6 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE ENGINEER. TYPICALLY THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

PART 3 – EXECUTION

3.1 GENERAL:
- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF A RAIN EVENT, NO SEDIMENT WILL LEAVE THE WORK SITE.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR UNDESIRABLE MATERIALS.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH GRANULAR FILL.
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE ENGINEER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF–SITE IN A LEGAL MANNER.
- J. DURING EXCAVATION, THE SUB–CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- K. WHEN DIRECTIONAL BORING IS REQUIRED, SUB–CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.

3.2 BACKFILL:
- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST–IN–PLACE CONCRETE, BACKFILL THE EXCAVATION WITH SPECIFIED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 12–INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12–INCHES IN LOOSE DEPTH AND COMPACTED.
- E. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.
- F. WHENEVER THE DENSITY TESTING INDICATES THAT THE SUB–CONTRACTOR(S) HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE SUB–CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- G. THE SUB–CONTRACTOR SHALL OBTAIN GRAB SAMPLES OF SUFFICIENT QUANTITY TO PROVIDE TO LAB FOR PURPOSE OF DETERMINING MAX DRY DENSITY. ALL LOOSE AND/OR ORGANIC MATERIAL SHALL BE REMOVED PRIOR TO PREPARATION OF THE AREA FOR PLACEMENT OF STRUCTURAL BACKFILL. OVERALL PLAN AREA OF WORK SHALL EXTEND 3'–0" MINIMUM BEYOND THE FINAL DIMENSIONS.
- H. SCARIFY THE EXISTING SOILS TO A DEPTH OF 6" AND RE–COMPACT USING A VIBRATING PLATE OR TAMPER, ANY SOFT AREAS SHALL BE OVEREXCAVATED 12" AND BACKFILLED WITH MATERIALS AND COMPACTION REQUIREMENTS SHOWN ON THE DRAWINGS.
- I. PLACEMENT AND COMPACTION OF STRUCTURAL BACKFILL AND SUBBASE SHALL BE IN 12" LIFTS. EXCAVATE FOR THE FOOTING EDGE AS SHOWN ON THE DRAWINGS.

3.3 TRENCHING EXCAVATION:
- J. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- K. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- L. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR MATERIAL.

3.4 TRENCHING BACKFILL:
- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6–INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS AND HAUNCHES.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 12–INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.
- H. PER LOCAL REGULATORY AUTHORITY AND AS APPLICABLE, ALL TRENCHES IN PUBLIC RIGHT–OF–WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE–APPROVED BY THE LOCAL JURISDICTION.

3.5 FINISH GRADING:

A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL MATCH SURROUNDING TOPOGRAPHY AND STRUCTURES.

B. UTILIZE GRANULAR FILL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.

C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL OR BETTER CONDITION.

D. AREAS OF THE PROJECT HOST'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR PARKING/DRIVING AREAS SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.

3.6 ASPHALT PAVING ROAD:
A. AASHTO
B. STATE SPECIFIC ASPHALT SPECIFICATIONS FOR HIGHWAYS
C. THE SUB–CONTRACTOR IS RESPONSIBLE FOR RE–STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry®
Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
DALLAS, TX 75244
TX FIRM #: F-6548
PHONE: 469.232.5200

STATE OF TEXAS
DAVID S. WHELAN
150120
LICENSED
PROFESSIONAL ENGINEER
10/10/23

DAVID S. WHELAN
TX P.E. LICENSE 150120
EXP. 06/30/2024

DRAWN BY:	FG
CHECKED BY:	DSW
APPROVED BY:	JG
PROJECT #:	50123704
JOB #:	50159211

SUBMITTALS

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2800 E WHITESTONE BLVD
CEDAR PARK, TX 78613

CASE NO. 2023–15–SD

SHEET TITLE
GENERAL NOTES I

SHEET NUMBER
GN–1

SHEET 2 OF 14

ELECTRICAL NOTES:

1. THE GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS. ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, SUB–CONTRACTOR SHALL NOTIFY THE PROJECT HOST AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE PROJECT HOST HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.

2. THE GENERAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE SUB–CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE THE SUBCONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.

3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:

A. UL – UNDERWRITERS LABORATORIES
B. NEC – NATIONAL ELECTRICAL CODE
C. NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA – OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
E. SBC – STANDARD BUILDING CODE
F. NFPA – NATIONAL FIRE PROTECTION ASSOCIATION

4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH ENGINEER ANY SIZES AND LOCATIONS WHEN NEEDED.

5. EXISTING SERVICES: THE GENERAL CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE PROJECT HOST.

6. THE GENERAL CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE GENERAL CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.

7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL, UNLESS OTHERWISE SPECIFIED BY CONSTRUCTION MANAGER OR BY PROJECT DEVELOPER.

8. THE GENERAL CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE PROJECT HOST'S CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.

9. CONDUCTORS: THE CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN–2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.

10. ALL (THWN–2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

11. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. SUB–CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.

13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL SUB–CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY THE CONSTRUCTION MANGER.

14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

15. THE GENERAL CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.

16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.

17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.

18. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.

19. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

20. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE CONTRACTOR(S) RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER UPON FINAL ACCEPTANCE.

21. THE SUBCONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.

22. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY–DUTY, QUICK–MAKE AND QUICK–BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.

23. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI–OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED – NO SUBSTITUTIONS.

24. ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED STEEL UNLESS SPECIFIED OTHERWISE. RACEWAYS: ALL CONDUITS SHALL BE SCHEDULE 40 EMT MEETING OR EXCEEDING NEMA TC2 – 1990 UNLESS SPECIFIED OTHERWISE. THE SUB–CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS – 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS. EMT CONDUITS WHEN SPECIFIED, SHALL MEET UL–6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.

25. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.

26. CONNECTORS FOR POWER CONDUCTORS: SUB–CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST–ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.

27. THE SUB–CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC".

28. WHEN DIRECTIONAL BORING IS REQUIRED, SUB–CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.

29. ALL BOLTS SHALL BE STAINLESS STEEL.

30. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE SUBCONTRACTOR SHOULD BE NEW AND UNUSED.

31. PER NEC 625.22 – THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL EQUIPMENT (SUPERCHARGER CABINET) AND THE FOLLOWING PRECAUTIONS HAVE BEEN TAKEN TO ENSURE THE SAFETY OF CUSTOMERS AND THOSE AROUND THE EQUIPMENT. BEFORE ANY VOLTAGE OR CURRENT IS APPLIED TO THE CHARGE POST, THE CABINET MUST COMMUNICATE WITH THE TESLA VEHICLE. THERE IS A "HANDSHAKE" BETWEEN THE CAR AND THE CABINET CONFIRMING THAT THE VEHICLE IS ACTUALLY A TESLA AND THAT THE VEHICLE CAN HANDLE THE SUPERCHARGING. VOLTAGE IS THEN APPLIED TO THE POWER SOCKETS IN THE CHARGE POST AND ONCE THE VOLTAGE READING FROM THE CAR IS VERIFIED AS THE SAME IN THE CHARGING CABINET, THEN CURRENT BEGINS TO FLOW. IF AT ANY POINT IN THIS PROCESS A FAULT IS DETECTED, THE CHARGING WILL STOP IMMEDIATELY, WITHIN A MATTER OF MILLISECONDS. DURING THE NORMAL CHARGING CYCLE, IF ANY FAULT OR IRREGULARITY IS DETECTED, THE CHARGING WILL AGAIN STOP WITHIN MILLISECONDS OF DETECTION. BEYOND THIS LOGIC PROTECTION, THERE IS PHYSICAL PROTECTION FROM OVER–CURRENT OR OVER–VOLTAGE WITHIN EACH OF THE CHARGERS. BEYOND THAT, FAST ACTING FUSES ALSO PROTECT THE VEHICLE OUTPUTS FROM OUTPUTTING TOO HIGH OF A CURRENT.

REINFORCED CONCRETE NOTES:

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

2. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY–MIX CONCRETE AT THE JOB SITE. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.

3. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR–ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4".

5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 615, GRADE 60
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON–CHLORIDE CONTAINING

6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH "DETAILING MANUAL–2004 PUBLICATION SP–66" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI–318–08.

7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B"; ALL HOOKS SHALL BE STANDARD, UNO.

8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH:	3 IN.	
CONCRETE EXPOSED TO EARTH OR WEATHER:	#6 AND LARGER	2 IN.
	#5 AND SMALLER & WWF	1–1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	SLAB AND WALL	3/4 IN.
	BEAMS AND COLUMNS	1–1/2 IN.

9. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

10. INSTALLATION OF CONCRETE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.

11. CURING COMPOUNDS SHALL CONFORM TO ASTM C–309.

12. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI–301.

13. DO NOT WELD OR TACKWELD REINFORCING STEEL.

14. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

15. LOCATE ADDITIONAL EXPANSION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.

16. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.

17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.

18. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.

19. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.

20. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT. FOR COLD–WEATHER AND HOT–WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

21. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.

22. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

TRAFFIC MANAGEMENT NOTES:

1. ALL TEMPORARY CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.

2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.

3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.

5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).

6. CONTRACTORS SHALL NOTIFY THE OWNER AND ALL TENANTS OF THIS PROPERTY AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.

7. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.

8. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

9. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.

10. EXISTING PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES THROUGH A COMBINATION OF PEDESTRIAN DETOURS OR PROTECTED SAFE ROUTES. ALL PEDESTRIAN ROUTES SHALL MEET APPLICABLE ACCESSIBILITY REQUIREMENTS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION AT THIS LOCATION. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNS, DRUMS, CONES, OR OTHER TRAFFIC CONTROL DEVICES TO DIRECT VEHICLES AND PEDESTRIANS AROUND THE WORK ZONE.

HORIZONTAL DIRECT DRILLING NOTES:

1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING AND INSTALLING UNDERGROUND UTILITIES USING THE DIRECTIONAL BORING (HORIZONTAL DIRECTIONAL DRILLING, HDD) METHOD OF INSTALLATION, ALSO COMMONLY REFERRED TO AS GUIDED HORIZONTAL BORING. THIS WORK SHALL INCLUDE ALL SERVICES, EQUIPMENT, MATERIALS, AND LABOR FOR THE COMPLETE AND PROPER INSTALLATION, TESTING, RESTORATION OF UNDERGROUND UTILITIES AND ENVIRONMENTAL PROTECTION AND RESTORATION.

2. WORK PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MUST SUBMIT TO THE ENGINEER A GENERAL WORK PLAN OUTLINING THE PROCEDURE AND SCHEDULE TO BE USED TO EXECUTE THE PROJECT. PLAN SHOULD DOCUMENT THE THOUGHTFUL PLANNING REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT.

3. ENVIRONMENTAL PROTECTION: CONTRACTOR SHALL PLACE SILT FENCE BETWEEN ALL BORING OPERATIONS AND ANY DRAINAGE, WETLAND, WATERWAY OR OTHER AREA DESIGNATED FOR SUCH PROTECTION BY CONTRACT DOCUMENTS, STATE, FEDERAL AND LOCAL REGULATIONS. ADDITIONAL ENVIRONMENTAL PROTECTION NECESSARY TO CONTAIN ANY HYDRAULIC OR BORING FLUID SPILLS SHALL BE PUT IN PLACE, INCLUDING BERMS, LINERS, TURBIDITY CURTAINS AND OTHER MEASURES. CONTRACTOR SHALL ADHERE TO ALL APPLICABLE ENVIRONMENTAL REGULATIONS. FUEL OR OIL MAY NOT BE STORED IN BULK CONTAINERS WITHIN 200' OF ANY WATER–BODY OR WET–LAND.

4. UTILITY LOCATES: CONTRACTOR SHALL NOTIFY ALL COMPANIES WITH UNDERGROUND UTILITIES IN THE WORK AREA VIA THE STATE OR LOCAL "ONE–CALL" TO OBTAIN UTILITY LOCATES. ONCE THE UTILITIES HAVE BEEN LOCATED CONTRACTOR SHALL PHYSICALLY IDENTIFY THE EXACT LOCATION OF THE UTILITIES BY VACUUM OR HAND EXCAVATION, WHEN POSSIBLE, IN ORDER TO DETERMINE THE ACTUAL LOCATION AND PATH OF ANY UNDERGROUND UTILITIES WHICH MIGHT BE WITHIN 20 FEET OF THE BORE PATH. CONTRACTOR SHALL NOT COMMENCE BORING OPERATIONS UNTIL THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA HAVE BEEN VERIFIED.

5. SAFETY: CONTRACTOR SHALL ADHERE TO ALL APPLICABLE STATE, FEDERAL AND LOCAL SAFETY REGULATIONS AND ALL OPERATIONS SHALL BE CONDUCTED IN A SAFE MANNER. SAFETY MEETINGS SHALL BE CONDUCTED AT LEAST WEEKLY WITH A WRITTEN RECORD OF ATTENDANCE AND TOPIC SUBMITTED TO ENGINEER.

6. SITE RESTORATION: FOLLOWING BORING OPERATIONS, CONTRACTOR WILL DE–MOBILIZE EQUIPMENT AND RESTORE THE WORK–SITE TO ORIGINAL CONDITION. ALL EXCAVATIONS WILL BE BACKFILLED AND COMPACTED TO 95% OF ORIGINAL DENSITY. LANDSCAPING WILL BE RESTORED TO ORIGINAL.

7. RECORD KEEPING: CONTRACTOR SHALL MAINTAIN A DAILY PROJECT LOG OF BORING OPERATIONS AND A GUIDANCE SYSTEM LOG WITH A COPY GIVEN TO ENGINEER AT COMPLETION OF PROJECT. AS–BUILT DRAWINGS SHALL BE CERTIFIED AS TO ACCURACY BY CONTRACTOR.

TESLA

3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry®

Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
DALLAS, TX 75244
TX FIRM #: F-6548
PHONE: 469.232.5200

STATE OF TEXAS
DAVID S. WHELAN
150120
LICENSED PROFESSIONAL ENGINEER
10/10/23

DAVID S. WHELAN
TX P.E. LICENSE 150120
EXP. 06/30/2024

DRAWN BY: FG

CHECKED BY: DSW

APPROVED BY: JG

PROJECT #: 50123704

JOB #: 50159211

SUBMITTALS

REV.	DATE	DESCRIPTION
4	10/10/23	CITY COMMENTS
3	08/28/23	CITY COMMENTS
2	06/20/23	REVISED PER COMMENTS
1	05/19/23	REVISED PER COMMENTS
0	04/18/23	ISSUED AS FINAL
B	04/07/23	ISSUED FOR 90% REVIEW
A	03/27/23	ISSUED FOR 90% REVIEW

SITE NAME:
CEDAR PARK, TX – H–E–B
TRT ID: 58811
JB–7864358–00

SITE ADDRESS:
2800 E WHITESTONE BLVD
CEDAR PARK, TX 78613

CASE NO. 2023–15–SD

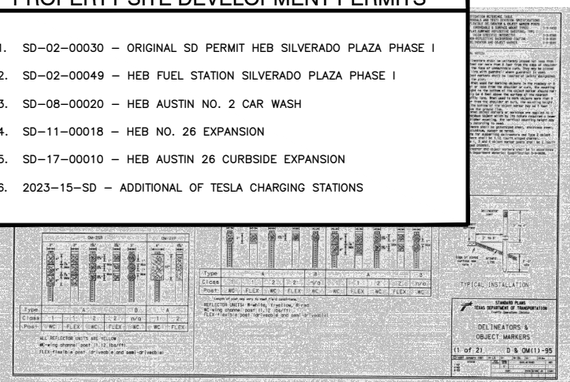
SHEET TITLE
GENERAL NOTES II

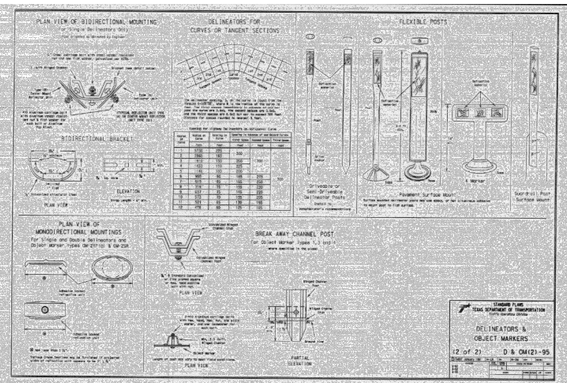
SHEET NUMBER
GN–2

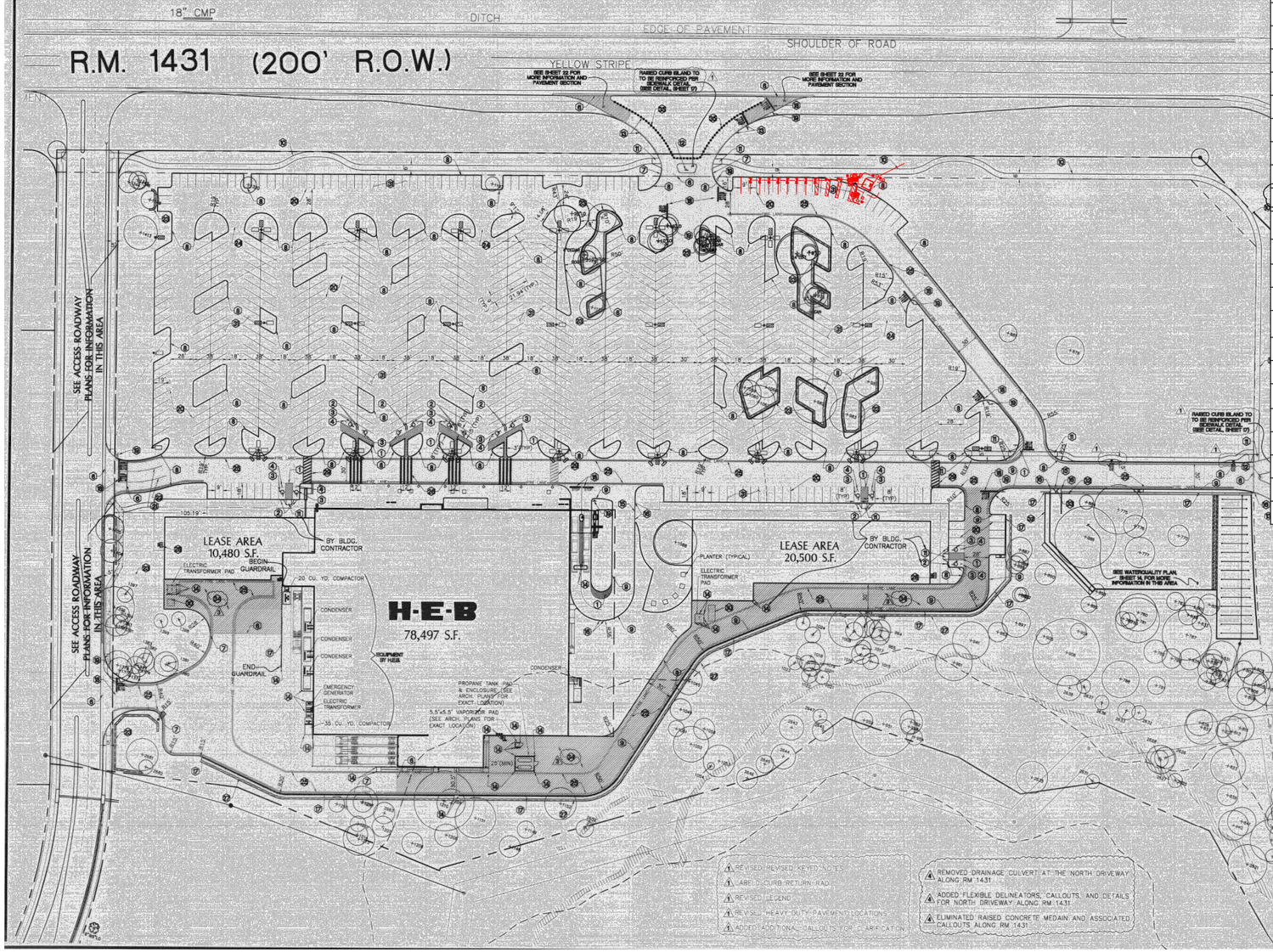
SHEET 3 OF 14

PROPERTY SITE DEVELOPMENT PERMITS

1. SD-02-00030 – ORIGINAL SD PERMIT HEB SILVERADO PLAZA PHASE I
2. SD-02-00049 – HEB FUEL STATION SILVERADO PLAZA PHASE I
3. SD-08-00020 – HEB AUSTIN NO. 2 CAR WASH
4. SD-11-00018 – HEB NO. 26 EXPANSION
5. SD-17-00010 – HEB AUSTIN 26 CURBSIDE EXPANSION
6. 2023-15-SD – ADDITIONAL OF TESLA CHARGING STATIONS







1. REVISED REVISED KEYED NOTE
1. LABELED CURB RETURN RAD
1. REVISED LEGEND
1. REVISED HEAVY DUTY PAVEMENT LOCATIONS
1. ADDED ADDITIONAL CALLOUTS FOR CLARIFICATION
4. REMOVED DRAINAGE CULVERT AT THE NORTH DRIVEWAY ALONG RM 1431
4. ADDED FLEXIBLE DELINEATORS, CALLOUTS, AND DETAILS FOR NORTH DRIVEWAY ALONG RM 1431
4. ELIMINATED RAISED CONCRETE MEDIAN AND ASSOCIATED CALLOUTS ALONG RM 1431

BINS WILL BE PROVIDED.
2. LOCATION OF BINS ARE STILL UNDETERMINED.
3. TWELVE (12) SPACES HAVE BEEN REMOVED FROM THE PARKING COUNT.
4. THIS SITE STILL EXCEEDS CITY OF CEDAR PARK PARKING REQUIREMENTS.
5. SEE SHEET 17 FOR TYPICAL PAVEMENT SECTIONS.
6. ALL ITEMS WITHIN THE 70' PUBLIC ROW WEST OF THE SITE INCLUDING, BUT NOT LIMITED TO, DRIVEWAY APRONS, SIDEWALK, CURBING, ARE TO BE BID UNDER THE PUBLIC ACCESS ROADWAY PLANS.
7. DRIVEWAYS SHOWN ARE INTERIM ONLY. SEE DRIVEWAY PLANS, SHEET 22, FOR ULTIMATE DEVELOPMENT ALIGNMENT.
8. A FEE OF $126.26 PER PEAK HOUR TRIP FROM THIS DEVELOPMENT IS REQU PRIOR TO THE ISSUANCE OF PERMIT AS PER THE REQUIR ASSOCIATED WITH THE DEVE AREA.
9. APPROVAL OF THE LOCA THE ACCESS ONTO COLLECT CONTINGENT ON THE APPRO COLLECTOR #6 TO INCLUDE ALLOWING FULL ACCESS FOR POINTS SHOWN ON THIS PLA
10. CONSTRUCTION PLANS INTERSECTION BETWEEN THE SITES ARE TO BE SUBMITTE COMMERCIAL COLLECTOR (AC ROADWAY PLANS.
11. CONSTRUCTION PLANS COMMERCIAL COLLECTOR (AC ROADWAY MUST BE REVIEWE THE CITY OF CEDAR PARK. THE COMMERCIAL COLLECTOR ROADWAY MUST BE COMPLE PLANS PRIOR TO THE ISSUA OF COMPLETION AND/OR OC
12. ALL SIGNAGE WITHIN Tx SHALL CONFORM TO TxDOT SHEET 18 FOR "BREAK-AWA INSTALLATION ON SIGNS.

PARKING SUMMARY

TENANT	BUSINESS	SIZE	RATIO	REQUIRED SPACES	PROVIDED SPACES
1	TOMLINSON'S	3,010 SF	1 TO 250	12	12
2	WHITESTONE FAMILY DENTAL	2,568 SF	1 TO 200	13	13
3	THE JOINT CHIROPRACTIC	1,120 SF	1 TO 200	6	6
4	TGF HAIRCUTTERS	1,540 SF	1 TO 200	8	8
5	FINE EYEWEAR	2,301 SF	1 TO 250	9	9
6	HEB GROCERY	104,612 SF	1 TO 250	418	504 (-14) 6
7	HEB CURBSIDE EXPANSION	1,426 SF	1 TO 250	5	18
8	VACANT	3,000 SF	1 TO 250	12	12
9	TWIN LIQUORS	3,300 SF	1 TO 250	13	13
10	LA VIDA MASSAGE	2,450 SF	1 TO 200	12	12
11	JACK BROWN CLEANERS	1,540 SF	1 TO 250	6	6
12	POSTNET	1,348 SF	1 TO 250	5	5
13	KOKO FIT CLUB	1,400 SF	1 TO 200	7	7
14	SPA PRO NAILS	2,856 SF	1 TO 200	14	14
15	AUSTIN'S PIZZA	1,520 SF	1 TO 100	15	15
16	SUBWAY	1,400 SF	1 TO 100	14	14
17	STARBUCKS	1,488 SF	1 TO 100	15	15
18	HEB FUEL STATION	2,308 SF	N/A	0	4
19	HEB CAR WASH	995 SF	N/A	0	0
20	BANK OF AMERICA	4,762 SF	1 TO 250	19	34
21	TESLA CHARGING STATION	N/A	N/A	0	11 6
			TOTAL PARKING	605 REQUIRED	721 (-3) PROVIDED 6

PROJECT SITE SUMMARY

HEB ORIGINAL BUILDING AREA	78,497 SF
HEB EXPANSION AREA	26,115 SF
HEB CURBSIDE EXPANSION BUILDING AREA	1,426 SF
TOTAL HEB BUILDING AREA	106,038 SF
TOTAL RETAIL BUILDING AREA	30,980 SF

HEB AND ADA PARKING SUMMARY

PARKING REQUIRED	605 SPACES
PARKING PROVIDED	721 (-3) SPACES 6
ADA PARKING REQUIRED	12 SPACES
ADA PARKING PROVIDED	19 (+3) SPACES 6
PARKING RATIO (OVERALL HEB)	1:146 6

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry®
Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
DALLAS, TX 75244
TX FIRM #: F-6548
PHONE: 469.232.5200

STATE OF TEXAS
DAVID S. WHELAN
150120
LICENSED PROFESSIONAL ENGINEER
10/10/23

DAVID S. WHELAN
TX P.E. LICENSE 150120
EXP. 06/30/2024

DRAWN BY:	FG
CHECKED BY:	DSW
APPROVED BY:	JG
PROJECT #:	50123704
JOB #:	50159211

SUBMITTALS

REV.	DATE	DESCRIPTION
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A	03/27/23	ISSUED FOR 90% REVIEW

SITE NAME:
CEDAR PARK, TX – H-E-B
TRT ID: 58811
JB-7864358-00

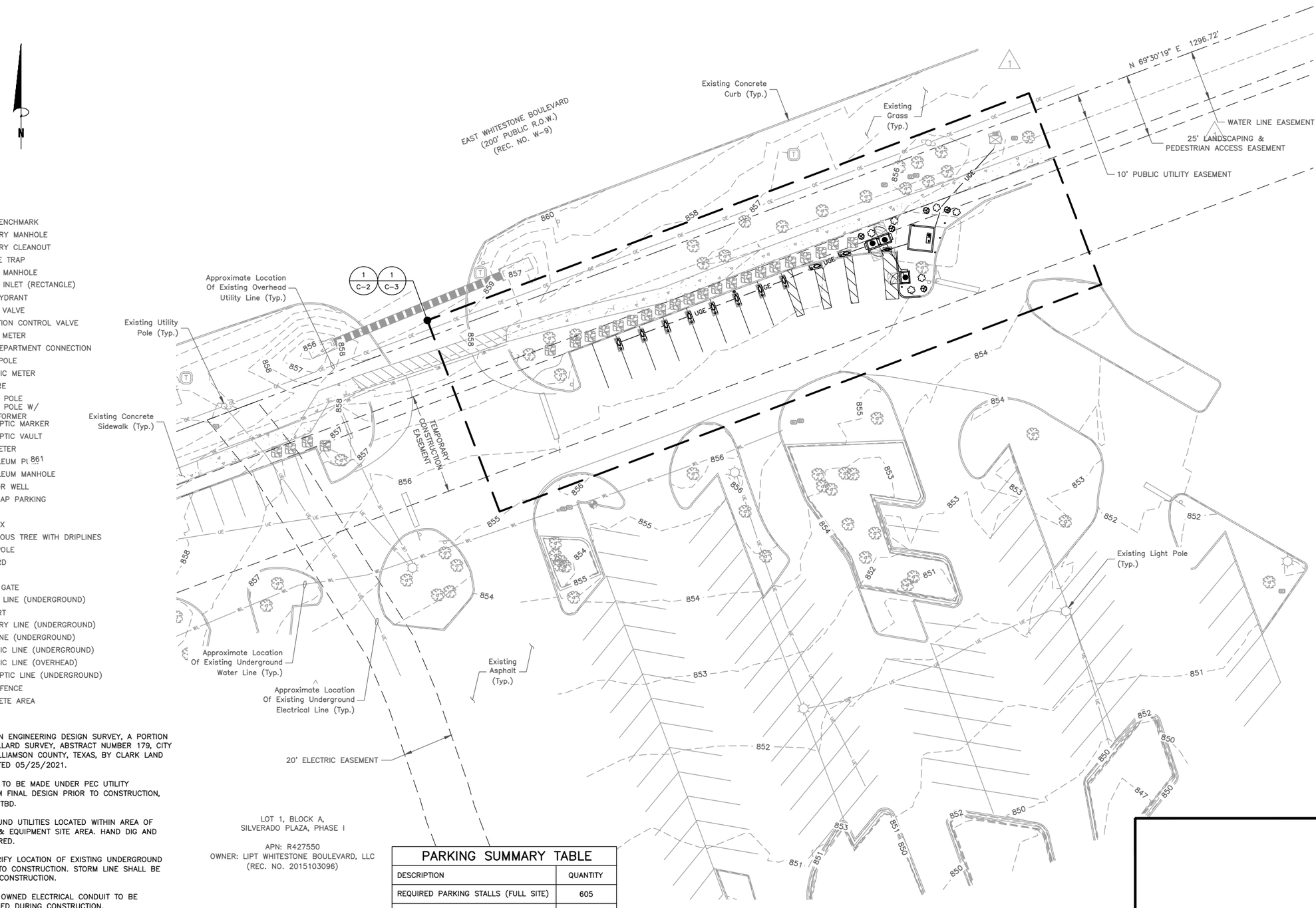
SITE ADDRESS:
2800 E WHITESTONE BLVD
CEDAR PARK, TX 78613

CASE NO. 2023-15-SD

SHEET TITLE
EXISTING SITE PLAN

SHEET NUMBER
C-0

SHEET 4 OF 14



LEGEND

- SITE BENCHMARK
- SANITARY MANHOLE
- SANITARY CLEANOUT
- GREASE TRAP
- STORM MANHOLE
- STORM INLET (RECTANGLE)
- FIRE HYDRANT
- WATER VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- FIRE DEPARTMENT CONNECTION
- LIGHT POLE
- ELECTRIC METER
- GUYWIRE
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- FIBEROPTIC MARKER
- FIBEROPTIC VAULT
- GAS METER
- PETROLEUM PI
- PETROLEUM MANHOLE
- MONITOR WELL
- HANDICAP PARKING
- PILLAR
- MAILBOX
- DECIDUOUS TREE WITH DRIPLINES
- FLAG POLE
- BOLLARD
- SIGN
- FENCE GATE
- STORM LINE (UNDERGROUND)
- CULVERT
- SANITARY LINE (UNDERGROUND)
- GAS LINE (UNDERGROUND)
- ELECTRIC LINE (UNDERGROUND)
- ELECTRIC LINE (OVERHEAD)
- FIBEROPTIC LINE (UNDERGROUND)
- WOOD FENCE
- CONCRETE AREA

NOTES:

1. SITE PLAN BASED ON ENGINEERING DESIGN SURVEY, A PORTION OF THE JOHN H. DILLARD SURVEY, ABSTRACT NUMBER 179, CITY OF CEDAR PARK, WILLIAMSON COUNTY, TEXAS, BY CLARK LAND SURVEYING, INC. DATED 05/25/2021.
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5. EXISTING CUSTOMER OWNED ELECTRICAL CONDUIT TO BE RELOCATED AS NEEDED DURING CONSTRUCTION.
6. EXISTING STORM DRAIN INLETS TO BE COVERED WITH SILT BAG.
7. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.
8. CONTRACTOR TO SEED & STRAW ALL DISTURBED AREA AFTER CONSTRUCTION HAS BEEN COMPLETED.
9. ANY TREES, SHRUBS OR LANDSCAPING THAT IS REMOVED DUE TO CONSTRUCTION SHALL BE REPLACED IN KIND.

LOT 1, BLOCK A,
SILVERADO PLAZA, PHASE I

APN: R427550
OWNER: LIPT WHITESTONE BOULEVARD, LLC
(REC. NO. 2015103096)

PARKING SUMMARY TABLE	
DESCRIPTION	QUANTITY
REQUIRED PARKING STALLS (FULL SITE)	605
EXISTING PARKING STALLS (FULL SITE)	724
EXISTING PARKING STALLS UTILIZED	15
PROPOSED TESLA PARKING STALLS	12
NET STALL CHANGE	-3
PROPOSED PARKING STALLS (FULL SITE)	721

SITE PLAN (1)
SCALE: 1"=40' FOR 11"x17"
1"=20' FOR 22"x34"

0' 20' 40'

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry®
Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
DALLAS, TX 75244
TX FIRM #: F-6548
PHONE: 469.232.5200

STATE OF TEXAS
DAVID S. WHELAN
150120
LICENSED
PROFESSIONAL ENGINEER
10/10/23
JOSEPH GIANNELLO
TX P.E. LICENSE 150120
EXP. 06/30/2024

DRAWN BY:	FG
CHECKED BY:	DSW
APPROVED BY:	JG
PROJECT #:	50123704
JOB #:	50159211

SUBMITTALS

REV.	DATE	DESCRIPTION
4	10/10/23	CITY COMMENTS
3	08/28/23	CITY COMMENTS
2	06/20/23	REVISED PER COMMENTS
1	05/19/23	REVISED PER COMMENTS
0	04/18/23	ISSUED AS FINAL
B	04/07/23	ISSUED FOR 90% REVIEW
A	03/27/23	ISSUED FOR 90% REVIEW

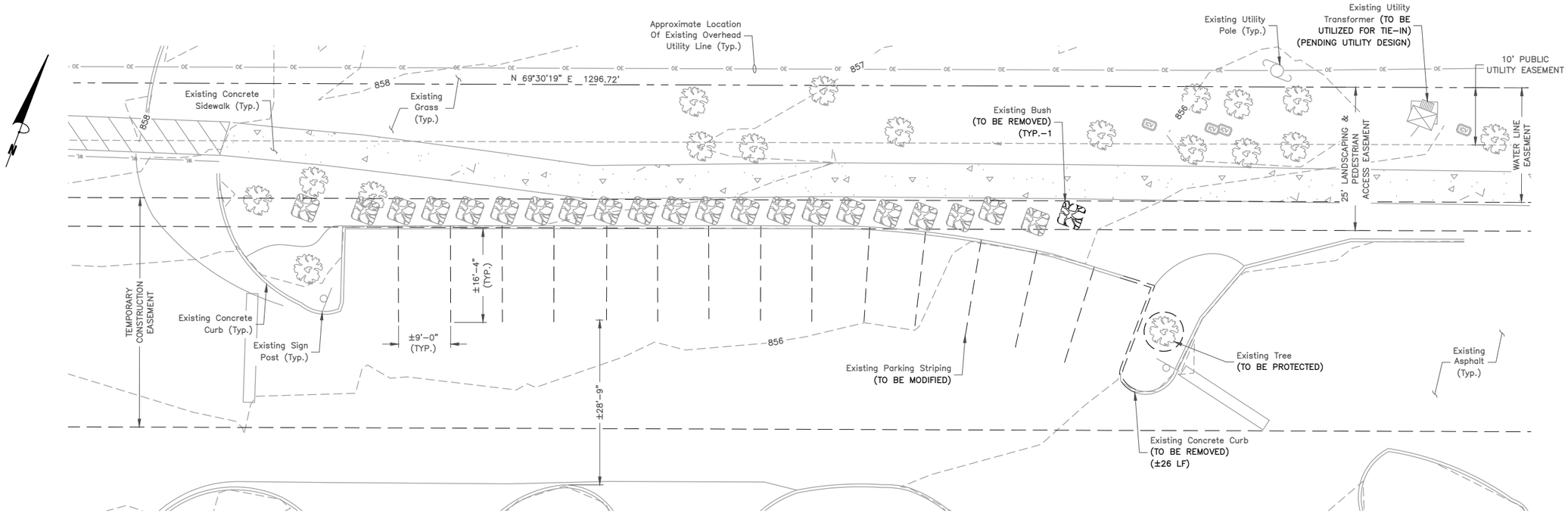
SITE NAME:
CEDAR PARK, TX – H-E-B
TRT ID: 58811
JB-7864358-00

SITE ADDRESS:
2800 E WHITESTONE BLVD
CEDAR PARK, TX 78613

CASE NO. 2023-15-SD

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1



EXISTING CONDITIONS PLAN

SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"

1

0' 10' 20'

NOTES:

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TX FIRM #: F-6548
PHONE: 469.232.5200

STATE OF TEXAS
DAVID S. WHELAN
150120
LICENSED PROFESSIONAL ENGINEER
10/10/23

DAVID S. WHELAN
TX P.E. LICENSE 150120
EXP. 06/30/2024

DRAWN BY:	FG
CHECKED BY:	DSW
APPROVED BY:	JG
PROJECT #:	50123704
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TRT ID: 58811
JB-7864358-00

SITE ADDRESS:
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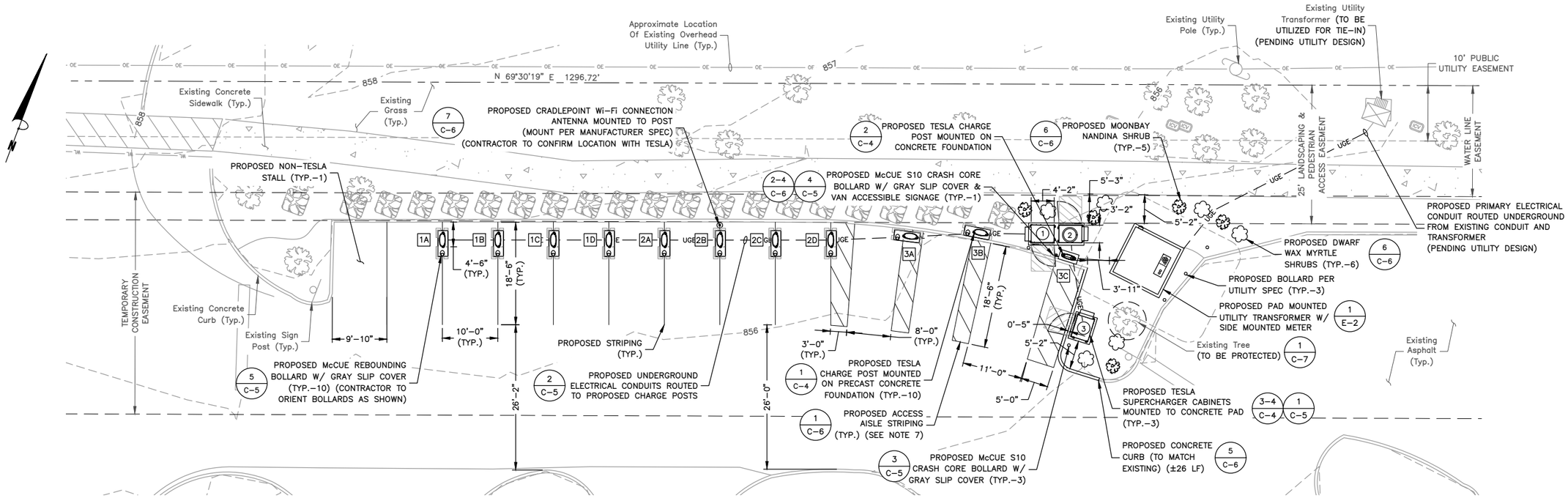
CEDAR PARK, TX 78613

CASE NO. 2023-15-SD

SHEET TITLE
EXISTING CONDITIONS PLAN

SHEET NUMBER
C-2



EQUIPMENT & PARKING PLAN (1)

SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"

0' 10' 20'

PLANT SCHEDULE

QUANT	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
SHRUBS				
6		MYRICA PUSILLA	DWARF WAX MYRTLE	5 GAL.
5		NANDINA MOONBAY	MOONBAY NANDINA	5 GAL.

(2) NOTE: See plan view for planting layout. Most of the material can be field located. Contractor to confirm plants with Tesla Construction Manager.

LEGEND	
(#)	TESLA SUPERCHARGER #
(#)	'STAR CENTER' MASTER CABINET #
1A	TESLA CHARGE POST

PARKING STALL SCHEDULE	
DESCRIPTION	QUANTITY
EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	15
PROPOSED TESLA STALLS	11
PROPOSED STANDARD STALLS	1
NET STALL COUNT	-3

NOTES:

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DRAWN BY: FG
CHECKED BY: DSW
APPROVED BY: JG
PROJECT #: 50123704
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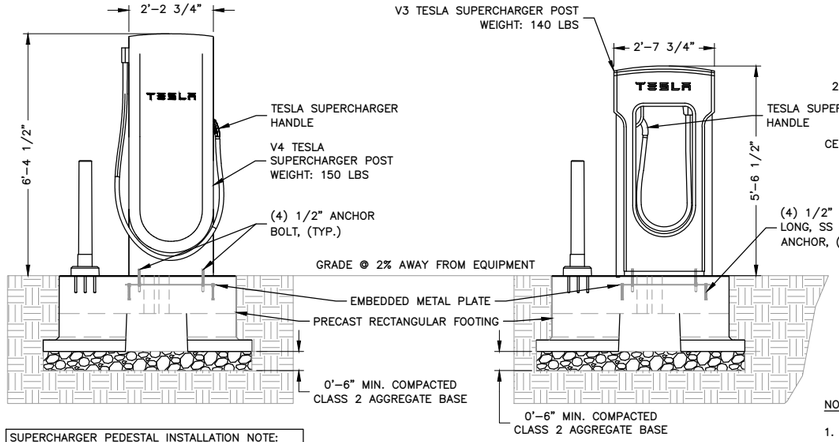
CASE NO. 2023-15-SD

SHEET TITLE
EQUIPMENT & PARKING PLAN

SHEET NUMBER
C-3



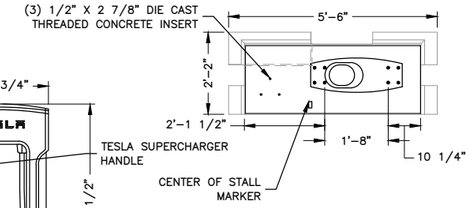
SUPERCHARGER PEDESTAL INSTALLATION NOTE:

PROPOSED TESLA SUPERCHARGER FOOTING TO BE INSTALLED SO THAT THE TOP OF THE PEDESTAL IS FLUSH WITH EXISTING GRADE. TOP OF THE PEDESTAL NOT TO EXCEED FINISHED GRADE.

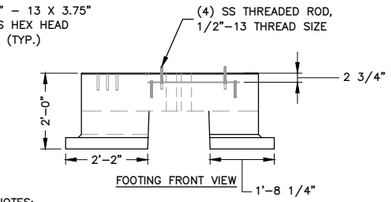
TESLA SUPERCHARGER POST DETAIL 1

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"

0' 1' 2' 4'



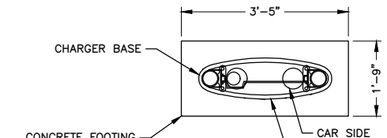
FRONT FOOTING TOP VIEW



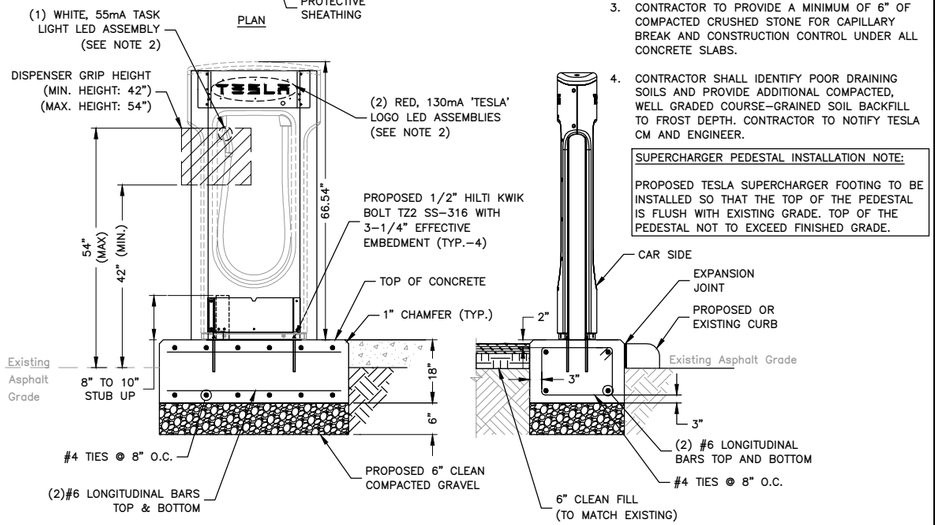
FOOTING FRONT VIEW

NOTES:

1. PRECAST FOOTING REINFORCED WITH STRUCTURAL FIBER
   VOLUME: 0.483 CU YDS
   WEIGHT: 1,990 LBS
   SEE CUTSHEETS FOR ADDITIONAL INFORMATION
2. S501.1333 SUPERCHARGER POST CENTER ON CENTER PRECAST FOOTING DETAIL RA
   WIND RATING (WITHOUT SIGN) = 134 MPH
   WIND RATING (WITH SIGN) = 120 MPH
3. BACKFILL FOOTING WITH EXCAVATED SOIL COMPACTED TO SAME DENSITY AS UNDISTURBED SOIL.
4. THE 4.33W, 315mA COMBINED TESLA LOGO AND TASK LIGHT LED ASSEMBLIES DRAW POWER FROM THE PROPOSED SUPERCHARGER.



PLAN



ILLUMINATED CHARGING STATION FOOTING DETAIL 2

SCALE: N.T.S.

NOTES:

1. BACKFILL FOOTING WITH EXCAVATED SOIL COMPACTED TO SAME DENSITY AS UNDISTURBED SOIL.
2. THE 4.33W, 315mA COMBINED TESLA LOGO AND TASK LIGHT LED ASSEMBLIES DRAW POWER FROM THE PROPOSED SUPERCHARGER.
3. CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF COMPACTED CRUSHED STONE FOR CAPILLARY BREAK AND CONSTRUCTION CONTROL UNDER ALL CONCRETE SLABS.
4. CONTRACTOR SHALL IDENTIFY POOR DRAINING SOILS AND PROVIDE ADDITIONAL COMPACTED, WELL GRADED COURSE-GRAINED SOIL BACKFILL TO FROST DEPTH. CONTRACTOR TO NOTIFY TESLA CM AND ENGINEER.

SUPERCHARGER PEDESTAL INSTALLATION NOTE:

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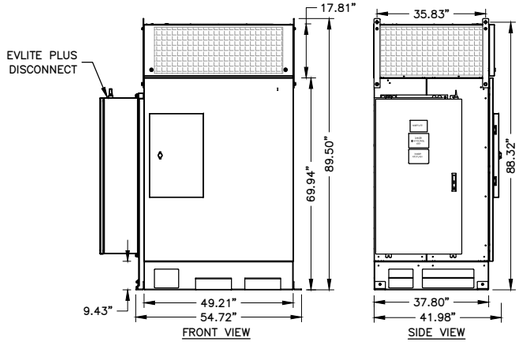
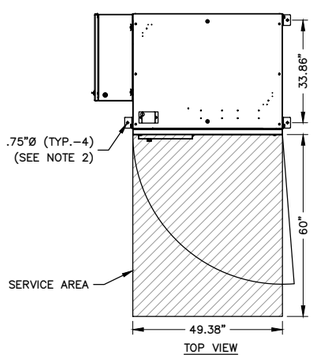


FRONT VIEW SIDE VIEW



TOP VIEW

TESLA SUPERCHARGER
ENCLOSURE DATA: IP67 - NEMA 4

WEIGHT: 2448 LBS.

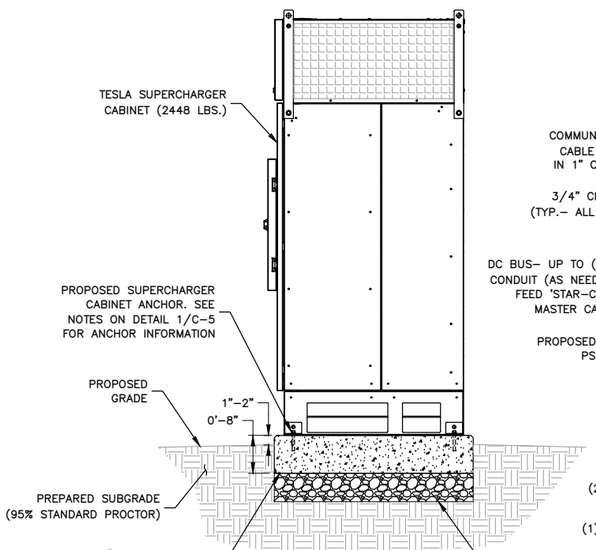
MINIMUM CLEARANCE:
OVERHEAD: 3'-0"
SIDE: 0'-6"
FRONT: 5'-0"
REAR : 0'-6"

NOTES:

1. SEE NOTE #31 ON SHEET GN-2 FOR CABINET NOTES.
2. ANCHOR TO CIP CONCRETE WITH (4) 1/2"Ø HILTI KWIK BOLT TZ2 WITH 3-1/4" EFFECTIVE EMBEDMENT W/ OVERSIZE WASHER.
3. ANCHOR TO PRECAST SLAB WITH (4) 5/8"Ø HEAVY HEX BOLT WITH 1/1/2" THREAD LENGTH, ASTM 320 GRADE B AND LOCK WASHER (OR APPROVED EQUIVALENT)

TESLA SUPERCHARGER CABINET DETAIL 3

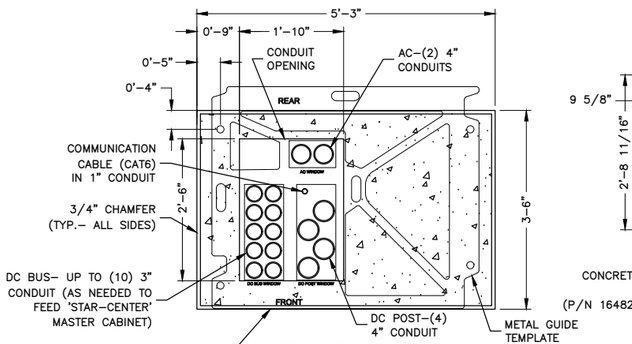
SCALE: N.T.S.



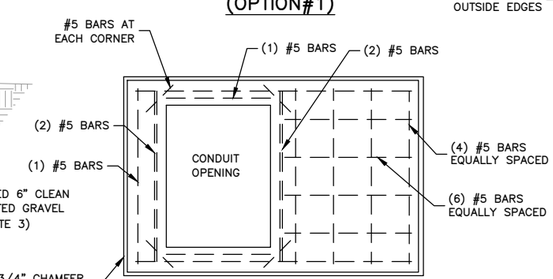
CAST IN PLACE (OPTION#1) & PRECAST (OPTION#2)

NOTES:

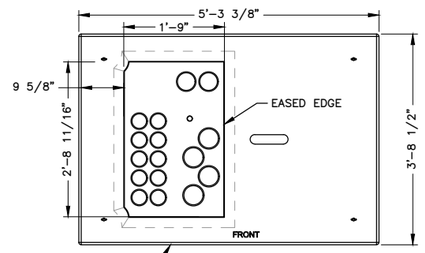
1. SEE CONCRETE NOTES ON SHEET GN-2.
2. DETAIL SHOWN AS TYPICAL FOR (1) TESLA SUPERCHARGER CABINET. PAD TO BE INCREASED AS NEEDED FOR ADDITIONAL CABINETS OR ELECTRICAL EQUIPMENT.
3. CONTRACTOR TO PROVIDE A MIN OF 6" OF COMPACTED CRUSHED STONE FOR CAPILLARY BREAK AND CONSTRUCTION CONTROL UNDER ALL CONCRETE SLABS. CONTRACTOR SHALL IDENTIFY POOR DRAINING SOILS AND PROVIDE ADDITIONAL COMPACTED, WELL GRADED COURSE-GRAINED SOIL BACKFILL TO FROST DEPTH. CONTRACTOR TO NOTIFY TESLA CM AND ENGINEER.



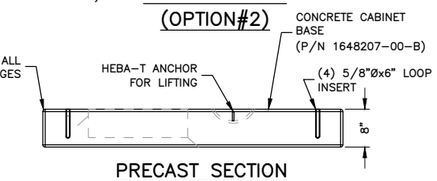
CAST IN PLACE PLAN (OPTION#1)



CAST IN PLACE REBAR PLAN (OPTION#1)



PRECAST PLAN (OPTION#2)



PRECAST SECTION (OPTION#2)

CABINET FOUNDATION PLAN 4

SCALE: 3/8"=1' FOR 11"x17"
3/4"=1' FOR 22"x34"

0' 1' 2' 3'

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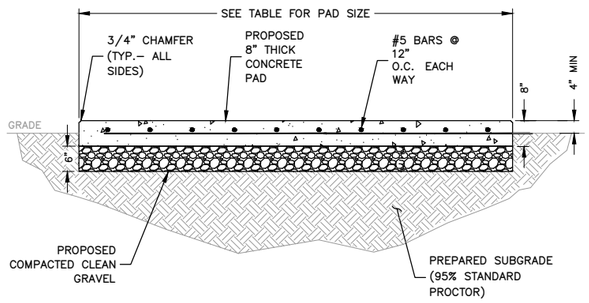
CASE NO. 2023-15-SD

SHEET TITLE
CONSTRUCTION DETAILS I

SHEET NUMBER
C-4



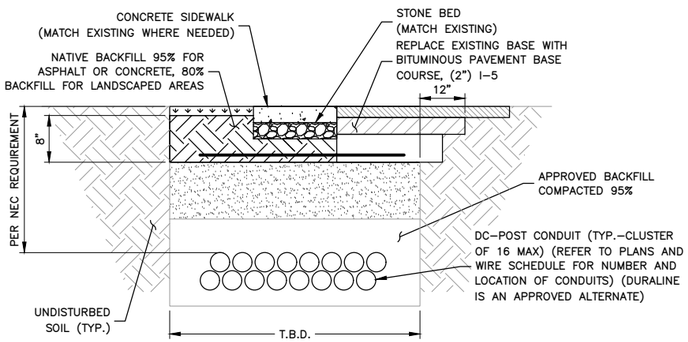
CONCRETE PAD DIMENSIONS					
PAD TYPE	CONCRETE	L	W	t (THICKNESS)	AREA
CABINET 1 & 2	4000 PSI	10'–0"	4'–0"	8"	40.0 S.F.
CABINET 3	4000 PSI	5'–0"	4'–0"	8"	20.0 S.F.

NOTE:

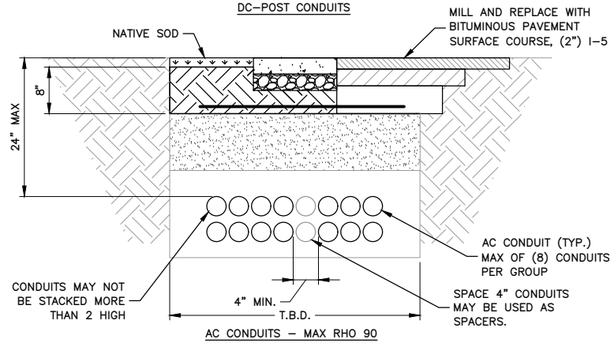
1. SEE CONCRETE NOTES ON SHEET GN–2.

CONCRETE PAD DETAIL 1

SCALE: N.T.S.



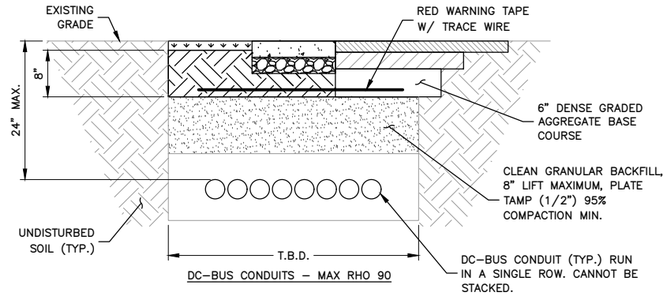
DC–POST CONDUITS



AC CONDUITS – MAX RHO 90

NOTES:

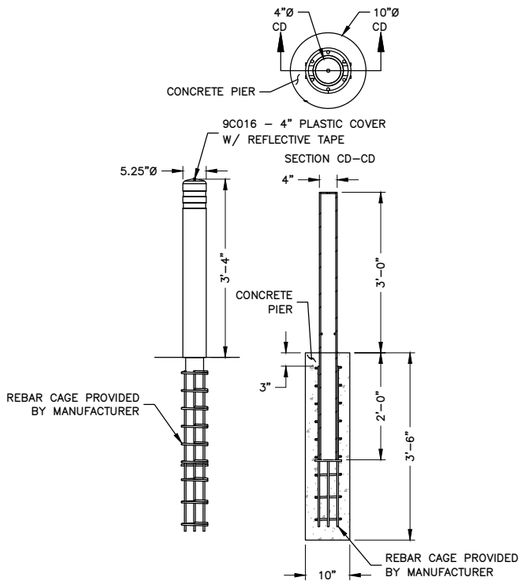
1. THE TRENCH DESIGNS FOR 'AC–CONDUITS' AND 'DC–BUS CONDUITS' ARE THE RESULT OF A THERMAL ANALYSIS OF THE CONDUCTORS UNDER LOAD. FOR PROPER PROTECTION, THEY MUST BE FOLLOWED.
2. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTABLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE–CONSTRUCTION CONDITIONS OR BETTER.
4. CONDUIT TO BE INSTALLED TO A MAX COVER OF 24". COVER MAY BE REDUCED PER NEC TABLE 300.5
5. CONDUIT ARE PERMITTED TO HAVE GREATER THAN 24" COVER FOR SHORT DISTANCES WHERE REQUIRED TO CROSS UNDER EXISTING UTILITY LINES, TO ALLOW FOR NEC REQUIRED MIN. RADIUS FOR CONDUIT TURN–UPS INTO PAD–MOUNTED EQUIPMENT, AVOIDING OBSTRUCTIONS, ETC.
6. FOR TRENCHES WITH MIXED CIRCUIT TYPES, APPLY THE CONDUIT SPACING FOR THE CIRCUIT TYPE WITH THE LARGER SPACING REQUIREMENT.
7. APPROVED BACKFILL IS REQUIRED TO MEET THE DESIGNED RHO VALUES. USE THE SPECIFIED BACKFILL LISTED BELOW OR TEST NATIVE SOIL CONDITIONS TO CONFIRM MAX DEFINED RHO VALUES. MINIMUM 2" OF APPROVED BACKFILL COVERAGE AROUND CONDUITS IS REQUIRED.
8. RHO 90 BACKFILL – LOW STRENGTH FLUIDIZED THERMAL (SLURRY) BACKFILL WITH MIN 28 DAY COMPRESSIVE STRENGTH OF 150 PSI MUST BE USED TO ACHIEVE MAX RHO 90.



DC–BUS CONDUITS – MAX RHO 90

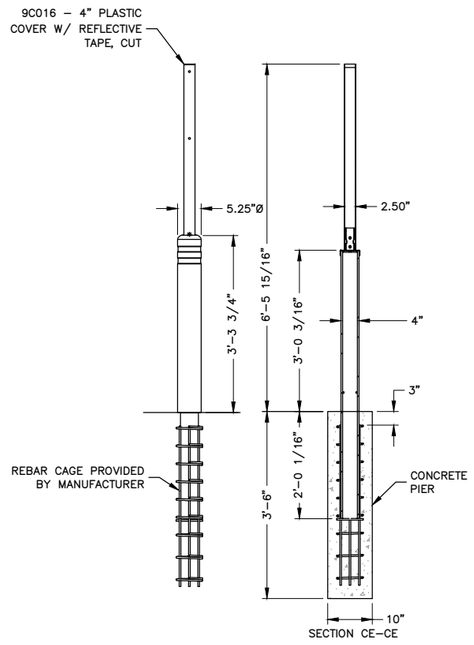
TYP. BURIED CONDUIT TRENCH DETAILS 2

SCALE: N.T.S.



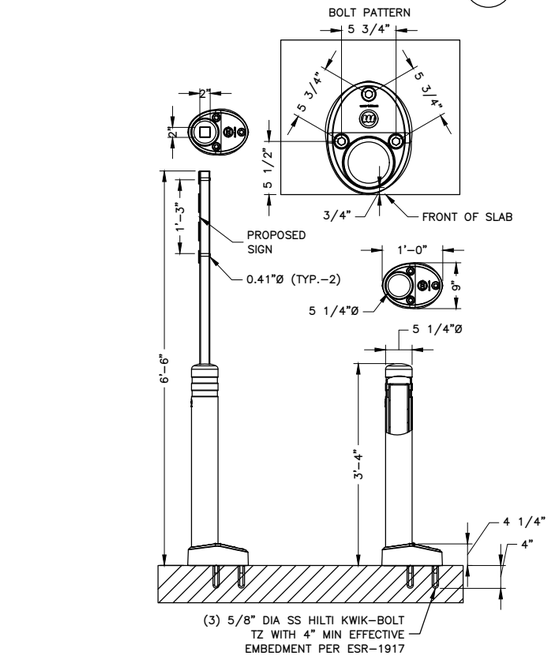
McCUE CRASH CORE DETAIL 3

SCALE: N.T.S.



McCUE CRASH CORE SIGN DETAIL 4

SCALE: N.T.S.



McCUE REBOUNDING BOLLARD & SIGN 5

SCALE: N.T.S.

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3500 DEER CREEK ROAD
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Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
DALLAS, TX 75244
TX FIRM #: F-6548
PHONE: 469.232.5200

STATE OF TEXAS
DAVID S. WHELAN
150120
LICENSED PROFESSIONAL ENGINEER
10/10/23

DAVID S. WHELAN
TX P.E. LICENSE 150120
EXP. 06/30/2024

DRAWN BY:	FG
CHECKED BY:	DSW
APPROVED BY:	JG
PROJECT #:	50123704
JOB #:	50159211

SUBMITTALS

REV.	DATE	DESCRIPTION
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3	08/28/23	CITY COMMENTS
2	06/20/23	REVISED PER COMMENTS
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B	04/07/23	ISSUED FOR 90% REVIEW
A	03/27/23	ISSUED FOR 90% REVIEW

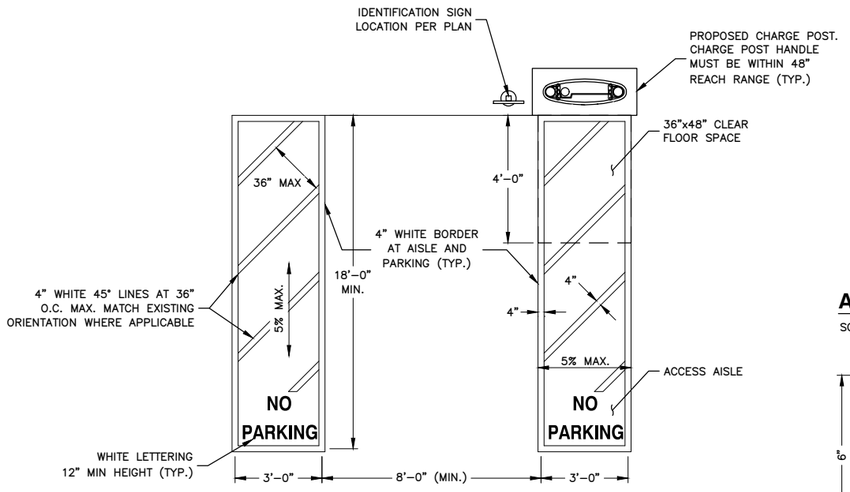
SITE NAME:
CEDAR PARK, TX – H–E–B
TRT ID: 58811
JB–7864358–00

SITE ADDRESS:
2800 E WHITESTONE BLVD
CEDAR PARK, TX 78613

CASE NO. 2023–15–SD

SHEET TITLE
CONSTRUCTION DETAILS II

SHEET NUMBER
C–5



EV CHARGE STALL STRIPING - STANDARD TDLR STALL 1

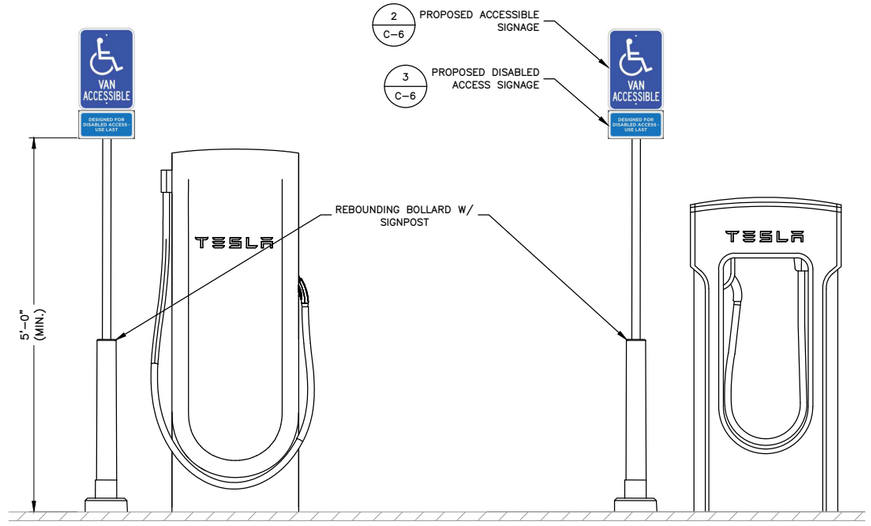
SCALE: N.T.S.

ACCESSIBLE SIGNAGE DETAIL 2

SCALE: N.T.S.

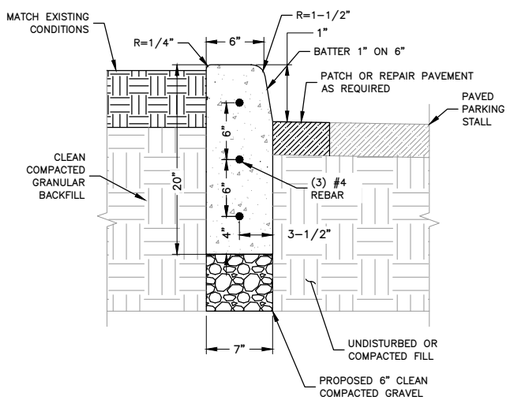
DISABLED ACCESS SIGN 3

SCALE: N.T.S.



TESLA PARKING SIGN DETAIL 4

SCALE: N.T.S.

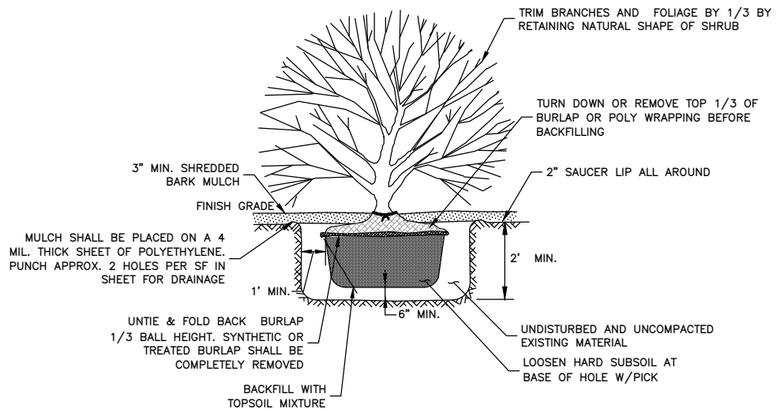


NOTES:

1. SAW CUT AREA TO BE REPAIRED/REPLACED. DISPOSE OF DEBRIS PROPERLY OFF SITE.
2. INSTALL FORMS AS NECESSARY.
3. COMPACT EXISTING SUBGRADE MATERIAL TO ACHIEVE 95% COMPACTION.
4. CONCRETE TO BE 4000 PSI AIR ENTRAINED CONCRETE.
5. INSTALL CONTROL JOINTS EVERY 10 LINEAR FEET.

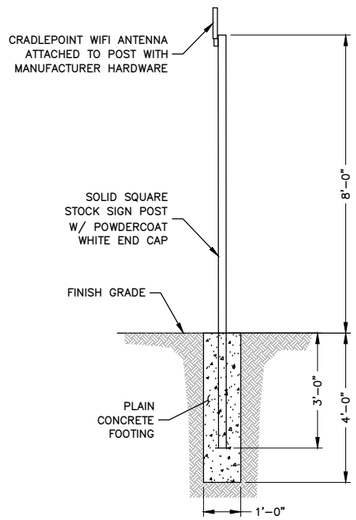
CONCRETE CURB DETAIL 5

SCALE: N.T.S.



SHRUB PLANTING 6

SCALE: N.T.S.



CRADLEPOINT WIFI POST DETAIL 7

SCALE: N.T.S.

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3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry
Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
DALLAS, TX 75244
TX FIRM #: F-6548
PHONE: 469.232.5200

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10/10/23

DAVID S. WHELAN
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EXP. 06/30/2024

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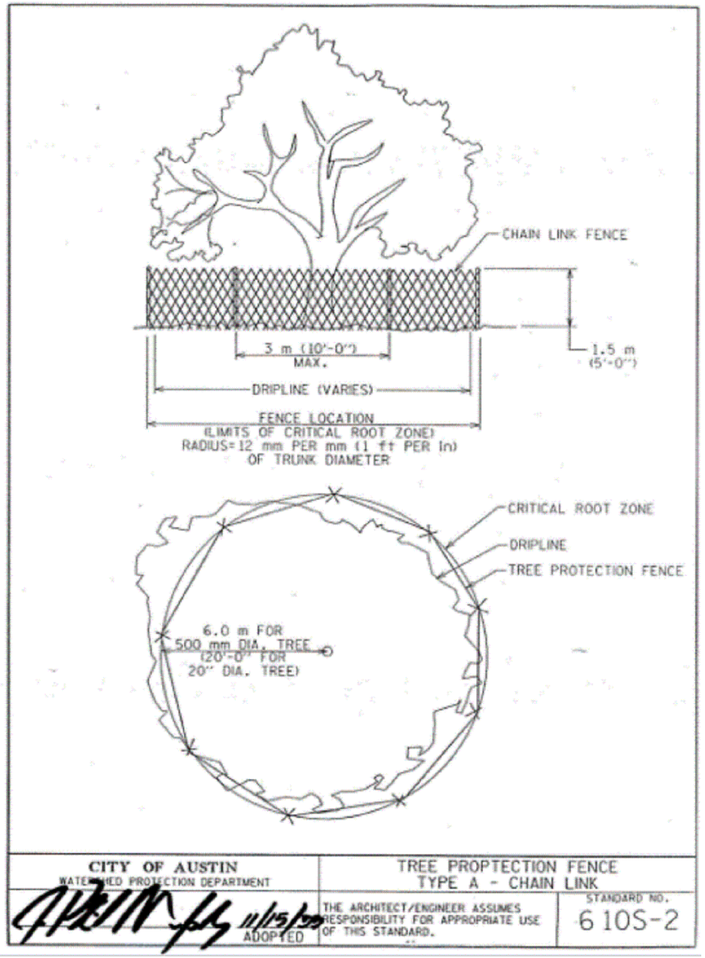
CASE NO. 2023-15-SD

SHEET TITLE
CONSTRUCTION DETAILS III

SHEET NUMBER
C-6



CITY OF AUSTIN STANDARD TREE PROTECTION DETAIL 1

SCALE: N.T.S.

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PALO ALTO, CA 94304
(650) 681-5000

Dewberry®

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4835 LBJ FREEWAY
SUITE 475
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TX FIRM #: F-6548
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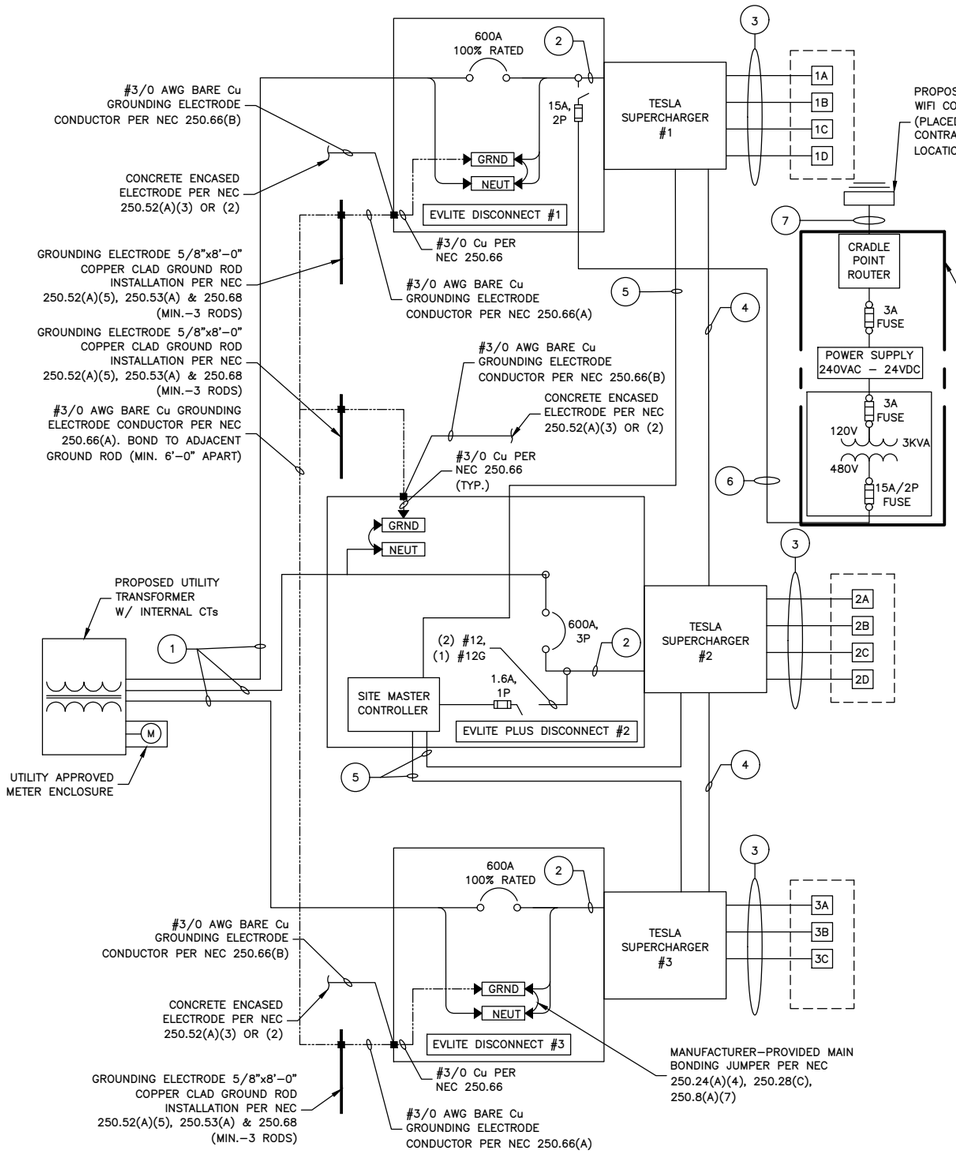
CASE NO. 2023–15–SD

SHEET TITLE
CONSTRUCTION DETAILS IV

SHEET NUMBER
C–7



SYSTEM ONE-LINE DIAGRAM

SCALE: N.T.S.

1

NOTES:

1. CONDUCTOR LENGTHS ARE ESTIMATES ONLY. FINAL CONDUCTOR ROUTING PATH AND LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FILED BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
2. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PREFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AND UTILITY COMPANY STANDARDS.
3. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
4. DC RUN LENGTH MAXIMUM IS 340' INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS OVER THE MAXIMUM SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF TESLA.
5. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATION.
6. UTILITY CONDUITS, CONNECTORS, TRANSFORMER PAD & TRANSFORMER FOUNDATION TO BE INSTALLED PER UTILITY SPECIFICATION. CONFIRM LATEST SPECIFICATIONS PRIOR TO CONSTRUCTION.
7. EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
8. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC SAFETY MEASURES THROUGHOUT DURATION OF CONSTRUCTION. COORDINATE ANY ACCESS ROAD CLOSURES W/OWNER.
9. SYSTEM GROUNDING RESISTANCE SHALL BE LESS THAN 25Ω PER NEC. ADD ADDITIONAL GROUND RODS AS NEEDED TO SYSTEM UNTIL RESISTANCE IS MET. COORDINATE WITH VENDOR FOR REQUIRED SYSTEM GROUNDING RESISTANCE BEYOND 25Ω.
10. GROUND-FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SOLIDLY GROUNDED WYE ELECTRICAL SERVICES OF MORE THAN 150 VOLTS TO GROUND, BUT NOT EXCEEDING 1000 VOLTS PHASE-TO-PHASE FOR EACH SERVICE DISCONNECT RATED 1000 AMPERES OR MORE. REFERENCE 2020 NEC ART 230.95.
11. GFPE TESTING REQUIRED. REFERENCE 2020 NEC 230.95(C).

BREAKER TRIP SETTINGS

EASTON LGH3600FAG – 600A BREAKER W/ADJUSTABLE MAGNETIC (INSTANTANEOUS TRIP) SETTINGS GO FROM 5-10 SET BREAKER TO 5
EASTON PD33GM3600TFAN – 600A BREAKER W/ADJUSTABLE MAGNETIC (INSTANTANEOUS TRIP) SETTINGS GO FROM 1-5 SET BREAKER TO 3
SQUARE-D LIL36600U31XYP – 600A BREAKER W/ADJUSTABLE MAGNETIC (INSTANTANEOUS TRIP) SETTINGS GO FROM 5-9, SET BREAKER TO 5
ABB XT5HU360BBFF000XXX – 600A BREAKER W/ADJUSTABLE MAGNETIC (INSTANTANEOUS TRIP) SETTINGS: MIN-MED-MAX SET BREAKER TO MED

UTILITY FAULT CURRENT

TRANSFORMER: 1,000 KVA
SECONDARY VOLTAGE: 277/480V
SECONDARY FAULT CURRENT: 26,729 A

* FAULT CURRENT INFORMATION PROVIDED BY PEC 04/18/23.

UTILITY S.O.W. RESPONSIBILITIES

SCOPE OF WORK	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY TRENCH (OPENING & CLOSING)	X	
PROVIDE & INSTALL PRIMARY CONDUITS & CONDUCTORS	X	
PROVIDE & INSTALL UTILITY TRANSFORMER	X	
INSTALL UTILITY TRANSFORMER PAD & ASSOCIATED GROUNDING		X
PROVIDE & INSTALL SECONDARY CONDUITS & CONDUCTORS		X
TERMINATE SECONDARY CONDUCTORS W/IN TRANSFORMER	X	
PROVIDE & INSTALL CTS W/IN SWITCHGEAR	X	
PROVIDE & INSTALL UTILITY METER W/IN SOCKET	X	

SERVICE ELECTRICAL CIRCUIT SCHEDULE

NO:	FROM	TO	CONFIGURATION
1	UTILITY TRANSFORMER	PROPOSED SERVICE EQUIPMENT	[2 SETS] (3) 500MCM AL (THWN-2) & (1) 500MCM AL (THWN-2) NEUT IN 4" CONDUIT
2	PROPOSED SERVICE EQUIPMENT	PROPOSED TESLA SUPERCHARGER (TYP.-3)	[2 SETS] (3) 500MCM AL (THWN-2) (1) 500MCM AL (THWN-2) NEUT (1) #1 AWG CU ECG OR 2/0 AL EGC* IN PRE-INSTALLED FACTORY PROVIDED RACEWAY
3A	PROPOSED TESLA SUPERCHARGER	V3 POST: PROPOSED TESLA POST (TYP.-11)***	[1 SET PER POST] (4) 350MCM AL (XHHW-2) (1000V RATED), (1) #1 AWG CU EGC OR 2/0 AL EGC (1000V RATED) & SHIELDED CAT6+ COMM CABLE (1000V RATED) IN 4" PVC/HDPE CONDUIT*** ADD 1" CONDUITS FOR COMMS PER DESIGN GUIDE
3B	PROPOSED TESLA SUPERCHARGER	V4: PROPOSED TESLA POST (TYP.-11)***	[1 SET PER POST] (4) 600MCM AL (XHHW-2) (1000V RATED), (1) 2/0 AWG CU EGC, (2) #6 CU (1000V RATED) & SHIELDED CAT6+ COMM CABLE (1000V RATED) IN 4" PVC/HDPE CONDUIT***
4	DC BUS BETWEEN PROPOSED SUPERCHARGERS	DC BUS BETWEEN PROPOSED SUPERCHARGERS	[2 SETS] (2) 600MCM AL (XHHW-2) (1) 1/0 CU GROUND & (1) 3/0 AWG AL DC MID (1000V RATED) IN 3" PVC/HDPE CONDUIT**
5	SITE CONTROLLER	SUPERCHARGER (TYP.)	SHIELDED CAT6+ COMM CABLE (1000V RATED) W/ PROPOSED AC FEEDERS IN 4" PVC/HDPE CONDUIT** (SEE FEEDER SCHEDULE #3)
6	PROPOSED SERVICE EQUIPMENT	PROPOSED STEPDOWN ENCLOSUURE	[1 SETS] (2) #12 AL (THWN-2) (1) #12 AL (THWN-2) GRND IN 3/4" PVC/HDPE CONDUIT**
7	PROPOSED CRADLEPOINT ROUTER	PROPOSED CRADLEPOINT WIFI ANTENNA	(1) CAT6 COMM CABLE IN 1" PVC/HDPE CONDUIT **

* MODIFIED PER NEC 250364(A)(2)
** PER UL 615A AND NEC 253, LISTED HDPE CONDUIT PERMITTED. CONTRACTOR TO CONFIRM USE W/ TESLA CM
*** INSTALL APPLICABLE WIRING CONFIGURATION CORRESPONDING WITH CHARGE POST VERSION INSTALLED.
**** CONTRACTOR SHALL TRANSITION SMOOTH-COR FLEXIBLE CONDUIT TO PVC CONDUIT AND SWEEP PVC CONDUIT INTO THE SUPERCHARGER CABINETS OR POSTS.

NOTES:

USE OD DURALINE FOR SUPERCHARGER TO CHARGE POST DC CONDUITS AS AN APPROVED ASSEMBLY (SEE TUV CERTIFICATION ON SHEET E-2)

AC SUPERCHARGER LENGTHS

SUPERCHARGER	LINEAR LENGTH BREAKER PANEL TO SUPERCHARGER	ESTIMATED LENGTH*
1	5'	30'
LENGTH OF AC AL WIRE PER CONDUIT**:		120'
TOTAL NUMBER OF CONDUITS:		2
LENGTH OF AC AL WIRE ***:		240'
2	18'	43'
LENGTH OF AC AL WIRE PER CONDUIT**:		172'
TOTAL NUMBER OF CONDUITS:		2
LENGTH OF AC AL WIRE***:		344'
3	22'	47'
LENGTH OF AC AL WIRE PER CONDUIT**:		188'
TOTAL NUMBER OF CONDUITS:		2
LENGTH OF AC AL WIRE***:		376'
TOTAL LENGTH OF AC AL WIRE****:		960'
TOTAL LENGTH OF EGC*****:		240'

NOTES:

* AC CONDUCTORS: 25 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.

** ESTIMATED LENGTH OF AI WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SUPERCHARGER

*** LENGTH = LENGTH OF AC AL WIRE PER CONDUIT X # OF CONDUITS

**** TOTAL LENGTH = SUM OF AC LENGTHS

***** TOTAL LENGTH OF EGC = LENGTH X # SETS

DC CHARGING POST LENGTHS

SUPERCHARGER	CHARGE POST	LINEAR LENGTH	ESTIMATED DC WIRE LENGTH*
1	1A	106'	128'
	1B	97'	119'
	1C	88'	110'
	1D	84'	106'
2	2A	75'	97'
	2B	69'	91'
	2C	62'	84'
	2D	62'	84'
3	3A	46'	68'
	3B	33'	55'
	3C	18'	40'
CONDUIT LENGTH:			982'
TOTAL CONDUCTOR LENGTH**:			3928'
TOTAL LENGTH OF EGC & COMM CABLE:			982'

NOTES:

1. ANY DC RUN OVER 340' SHALL BE BROUGHT TO THE ATTENTION OF TESLA CM.

* 22 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.

** ESTIMATED LENGTH OF DC AL WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SUPERCHARGER

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 681-5000

Dewberry®
Dewberry Engineers Inc.
4835 LBJ FREEWAY
SUITE 475
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TX FIRM #: F-6548
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STATE OF TEXAS
JOSEPH GIGANTIELLO
115108
LICENSED
PROFESSIONAL ENGINEER

10/10/23

JOSEPH GIGANTIELLO
TX P.E. LICENSE 115108
EXP. 06/30/2024

DRAWN BY: FG
CHECKED BY: DSW
APPROVED BY:
PROJECT #: 50123704
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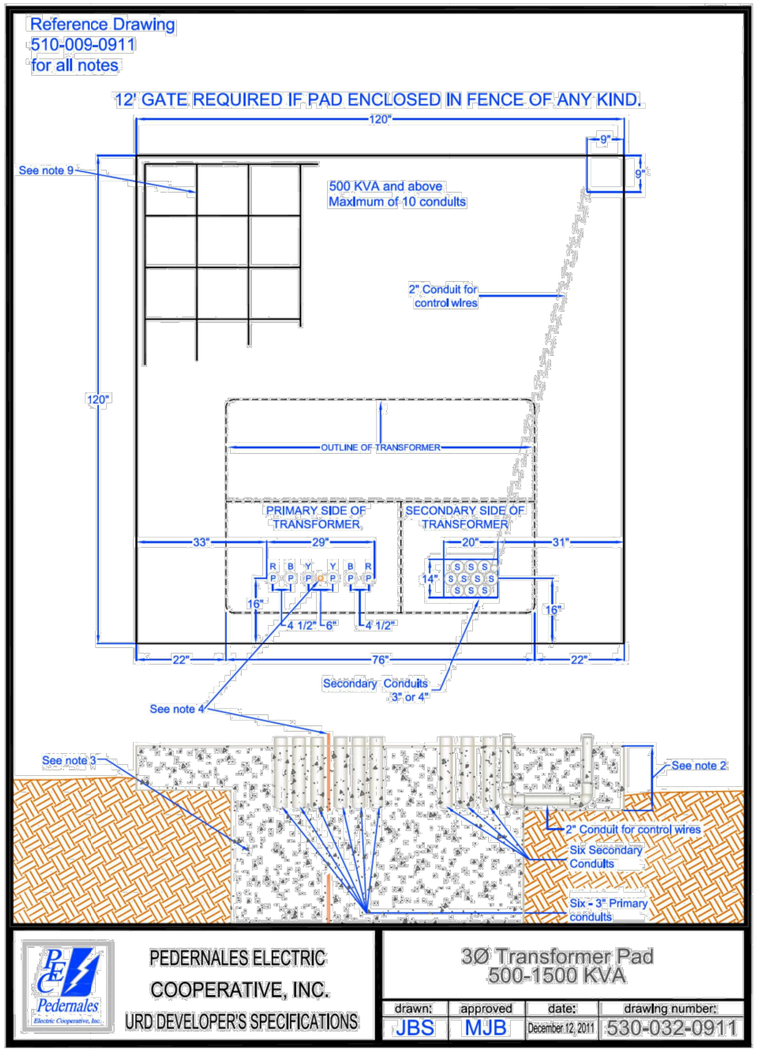
SHEET TITLE
ELECTRICAL
ONE-LINE DIAGRAM

SHEET NUMBER
E-1

SHEET 12 OF 14



32

TRANSFORMER PAD DETAIL 1

SCALE: N.T.S.

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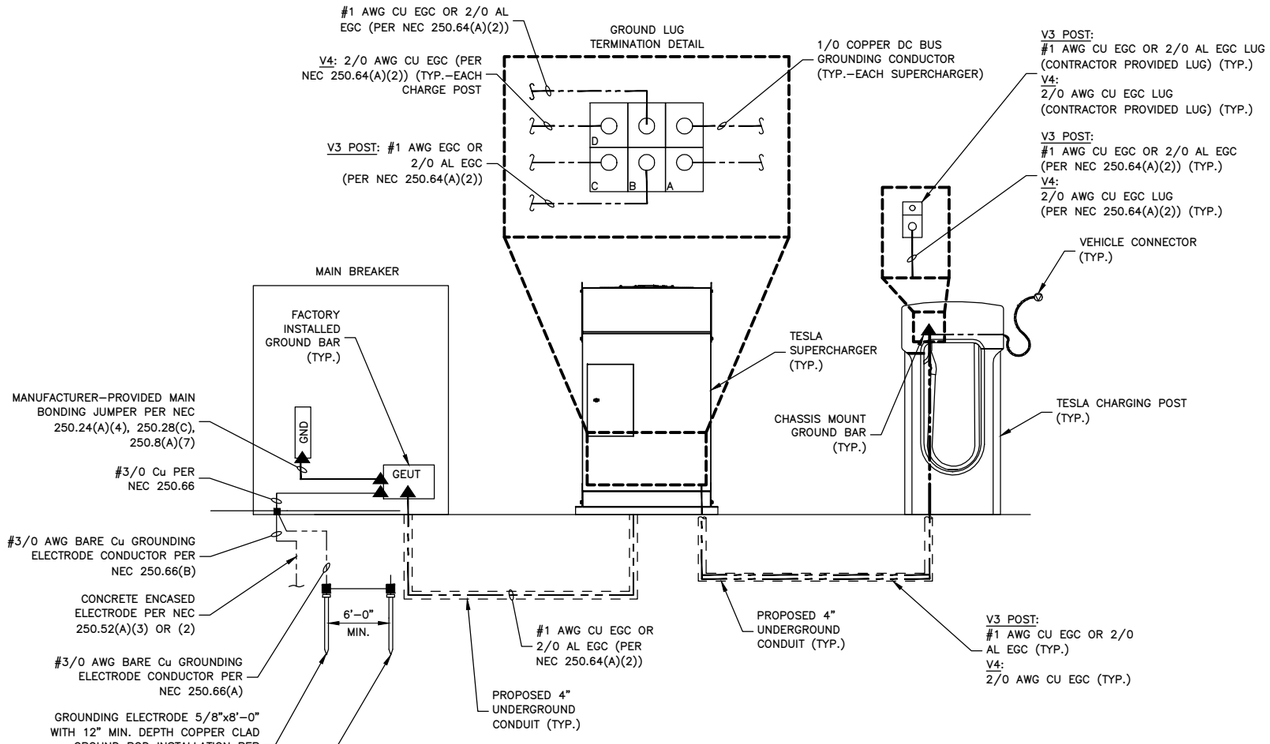
CASE NO. 2023-15-SD

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-2

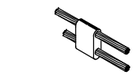
SHEET 13 OF 14



GROUNDING SCHEMATIC 1

SCALE: N.T.S.

CADWELD CONNECTIONS
(OR APPROVED EQUAL)



PARALLEL HORIZONTAL CONDUCTORS
PARALLEL THROUGH CONNECTION OF HORIZONTAL TYPE PT

HORIZONTAL STEEL SURFACE
TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS

BURNDY CONNECTIONS
(OR APPROVED EQUAL)

"C" CONNECTOR
HYPRESS TYPE YGHC

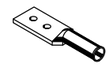
THROUGH CABLE TO GROUND ROD
THROUGH CABLE TO TOP OF GROUND ROD TYPE GT

VERTICAL STEEL SURFACE
CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS

BOND JUMPER
FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2–YA–2

HORIZONTAL SPLICE
SPLICE OF HORIZONTAL CABLES

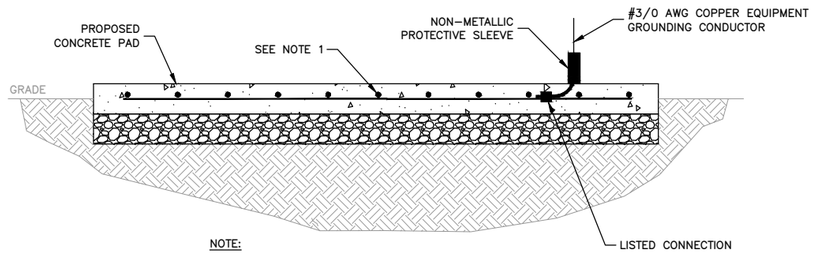
VERTICAL PIPE
CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS



COPPER LUGS
TWO HOLE – LONG BARREL LENGTH TYPE YA–2

GROUND CONNECTION DETAILS 2

SCALE: N.T.S.



NOTE:

1. REBAR BONDED TOGETHER WITH STEEL TIE WIRES.

CONCRETE ENCASED ELECTRODE DETAIL 3

SCALE: N.T.S.

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GROUNDING PLAN, SCHEMATIC & DETAILS

SHEET NUMBER
G–1

SHEET 14 OF 14