

Addressing:
1013 W UNIVERSITY AVE UNIT 99,
Revise.

Electric:
At this time, the City of Georgetown will not allow retail sale of electric power in the city limits of Georgetown. Please contact the Electric Department or the Planning Department to discuss this matter.

Revise Legal Description:
Wolf Ranch Block A
Lot 2 Resubdivision

Sec 1.11 In Title Block:
Display Original Date and any Revision Dates

Sec 1.11. Following is required on the Cover Sheet.

General Notes:

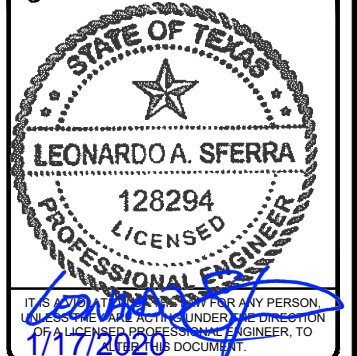
1. It is the responsibility of the property owner, and successors to the current property owner, to ensure the subject property and any improvements are maintained in conformance with this Site Development Plan.
2. This development shall comply with all standards of the Unified Development Code (UDC), the City of Georgetown Construction Standards and Specifications Manual, the Development Manual and all other applicable City standards.
3. This Site Development Plan shall meet the UDC Stormwater requirements.
4. All signage requires a separate application and approval from the Inspection Services Department. No signage is approved with the Site Development Plan.
5. Sidewalks shall be provided in accordance with the UDC.
6. Driveways will require approval by the Development Engineer of the City of Georgetown.
7. Outdoor lighting shall comply with Section 7.04 of the UDC.
8. Screening of mechanical equipment, dumpsters and parking shall comply with Chapter 8 of the UDC. The screening is shown on the Landscape and Architectural Plans, as applicable.
9. The companion Landscape Plan has been designed and plant materials shall be installed to meet all requirements of the UDC.
10. All maintenance of required landscape shall comply with the maintenance standards of Chapter 8 of the UDC.
11. A separate Irrigation Plan shall be required at the time of building permit application.
12. Fire flow requirements of _____ per minute (include amount) are being met by this plan.
13. Any Heritage Tree noted on this Site Development Plan is subject, in perpetuity, to the maintenance, care, pruning and removal requirements of the Unified Development Code.
14. The construction portion of these plans were prepared, sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the construction plans for construction of the proposed project are hereby approved subject to the Standard Construction Specifications and Details Manual and all other applicable City, State and Federal Requirements and Codes.
15. This project is subject to all City Standard Construction Specifications and Details in effect at the time of submittal of the project to the City.

Sec 1.11 Display:
Proposed Use
Proposed Impervious Coverage (or existing)
Final Plat Case Number

CIVIL	SHEET TITLE
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
GN-3	GENERAL NOTES
--	TOPOGRAPHIC SURVEY (BY OTHERS)
C-1	OVERALL SITE PLAN
C-2	DEMOLITION PLAN
C-3	SITE PLAN
C-4	GRADING PLAN
C-5	EQUIPMENT DIMENSION PLAN
C-6	CIVIL DETAILS
C-7	CIVIL DETAILS
C-8	CIVIL DETAILS
C-9	CIVIL DETAILS
ELECTRICAL	SHEET TITLE
EN-1	ELECTRICAL GENERAL NOTES
EN-2	ELECTRICAL GENERAL NOTES
E-1	OVERALL UTILITY PLAN
E-2	ELECTRICAL EQUIPMENT PLAN
E-3	SYSTEM ONE-LINE DIAGRAM
E-4	PANEL SCHEDULES
E-5	ELECTRICAL DETAILS
E-6	ELECTRICAL DETAILS
E-7	UTILITY DETAILS
E-8	UTILITY DETAILS
G-1	GROUNDING DETAILS
EBS-1	ELECTRICAL BREAKER SETTINGS
AF-1	ELECTRICAL ARC FLASH LABELS

T NUMBER:		2019141.80																					
		LMJ																					
		RP/EPM																					
N MANAGER:		RUSSEL SHEPPARD																					
<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>F</td><td>01.16.20</td><td>SIGNED AND SEALED</td></tr> <tr><td>E</td><td>12.19.19</td><td>SIGNED AND SEALED</td></tr> <tr><td>D</td><td>10.28.19</td><td>ISSUED FOR 100% REVIEW</td></tr> <tr><td>C</td><td>10.10.19</td><td>ISSUED FOR 100% REVIEW</td></tr> <tr><td>B</td><td>10.04.19</td><td>ISSUED FOR 100% REVIEW</td></tr> <tr><td>A</td><td>08.01.19</td><td>ISSUED FOR 50% REVIEW</td></tr> </tbody> </table>			REV	DATE	DESCRIPTION	F	01.16.20	SIGNED AND SEALED	E	12.19.19	SIGNED AND SEALED	D	10.28.19	ISSUED FOR 100% REVIEW	C	10.10.19	ISSUED FOR 100% REVIEW	B	10.04.19	ISSUED FOR 100% REVIEW	A	08.01.19	ISSUED FOR 50% REVIEW
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GPD Group, Professional Corporation
Texas Registration No. 16477



1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE

TITLE SHEET &
PROJECT DATA

SHEET NUMBER

T-1

Sec 1.11
"Project 2020-1-SDP", display on each
sheet in the bottom right hand corner.

Sec 1.11
Provide scale and north arrow for each map.

FLOOD HAZARD AREA NOTE

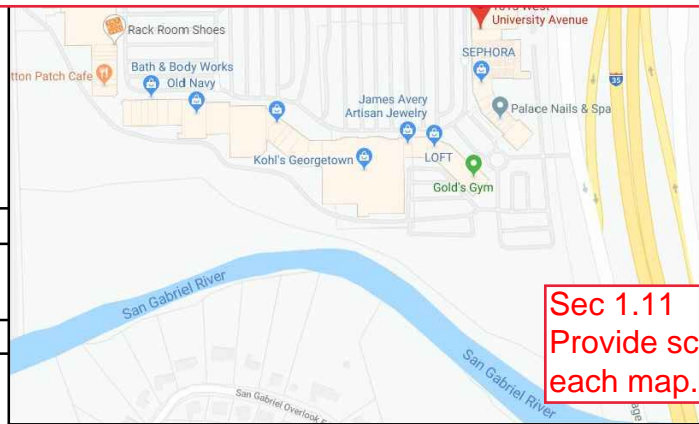
THE SITE IS LOCATED IN FLOOD ZONE "X" (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FLOOD INSURANCE MAP NUMBER 48491C0290E, EFFECTIVE DATE - 09/26/2008.

BEFORE SCALING & PLAN REPRODUCTION WARNING

CONTRACTORS SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND FIELD CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



Call 2 Working Days Before You Dig



MAP DATA ©2019 GOOGLE



MAP DATA ©2019 GOOGLE

V3 SUPERCHARGER DATASHEET



R2.2 OCTOBER 2019

CHARGING INFRASTRUCTURE DEPLOYMENT

SUPERCHARGER CABINET V3 (PN 1450758-00-C)							
AC INPUT [POWER]	Peak AC Input Power	Input [V _{AC}]	480	440	415	400	380
		Power [kVA]	433	TBD	TBD	TBD	TBD
	AC Input Voltage	380 V _{AC} - 480 V _{AC} (-5%, +10%), 4-wire 3AC+N					
	AC Input Current	521 A _{AC} Max.					
	Frequency	50 Hz / 60 Hz					
	Power Factor	≥ 0.99					
	Current THD	2.376%					
	Voltage THD	1.135%					
AC INPUT [MECHANICAL]	Conductor Size Range	L1, L2, L3, N: 150 – 400mm ² , 250MCM – 750MCM					
		PE: #14 AWG - 2/0					
	Conductor Material Type	L1, L2, L3, N: Cu, Al PE: Cu					
DC BUS [POWER]	Mfr. Termination Temp Rating	90° C					
	Peak DC Bus Power	Input [V _{AC}]	480	440	415	400	380
		Power [kW]	575	TBD	TBD	TBD	TBD
	DC Bus Voltage Range	880 - 1000 V _{DC}					
DC BUS [MECHANICAL]	Peak DC Bus Current	Input [V _{AC}]	480	440	415	400	380
		Current [A _{DC}]	640	TBD	TBD	TBD	TBD
	Conductor Size Range	Post, Neg: 150 – 300mm ² , 250MCM – 600MCM					
		Mid: 2.5 – 35mm ² , 14 AWG – 1 AWG					
DC POST [POWER]	Conductor Material Type	PE: #14 AWG - 2/0					
	Conductor Voltage Rating	Pos, Neg. Mid: Cu, Al PE: Cu					
	Mfr. Termination Temp Rating	1000V					
	Peak Post Output Power	90° C					
	Post Output Voltage Range	250 kW					
DC POST [MECHANICAL]	Peak Post Output Current	0-500 V _{DC}					
	Number of Charge Posts	631 A _{DC}					
	Max voltage drop	1 - 4					
	Power Conductors	10 V _{DC}					
	PE Conductor	V+, V- : 2x 350MCM or 185mm ² Aluminum (certified equipment wiring)					
SYSTEM	Conduit	#14 AWG - 2/0					
	Conductor Material Type	1x 4 inch inner diameter conduit fit for underground electrical application per charge post. Up to 4 conduits clustered directly adjacent. Minimum of 24 inches (center-center) between clusters.					
	Conductor Voltage Rating	Pos., Neg. : Cu, Al PE: Cu					
	Mfr. Termination Temp Rating	1000V					
	Efficiency	90°C					
PROTECTION	AC Input side: Class 1	96%					
	Over Voltage/Current/Temperature, Surge Protection, Isolation Monitoring	DC Output side: Isolated DC Output					
	Short-Circuit Protection	External Electronic Trip Circuit Breaker					
	Short Circuit Current Rating	85 kA RMS symmetrical					
ENVIRONMENTAL	Operating Temperature	-30°C to 50°C, -22°F to 122°F					
	Ingress Protection	IP66 (Cabinet), IP2X (Cooling)					
	Ventilation Requirements	Ventilation Not Required					
NOISE	Typical noise at 1m	<i>Pending test</i>					
CERTIFICATIONS	UL 2202, CSA C22.2#107.1, FCC, ICES-003-B						
LAYOUT	Max. Distance to Charge Post	100 m, 340 ft.					
WEIGHT	Supercharger Cabinet Weight	1500 kg, 3307 lbs. <i>approximate</i>					
DIMENSIONS	Depth, Width, Height	1000, 1250, 2200 mm; 39 ¹² / ₃₂ , 49 ⁷ / ₈ , 86 ²⁰ / ₃₂ in.					
MOUNTING	Per-anchor min. Shear Strength	4 kN					

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V3 SUPERCHARGER DATASHEET



R2.2 OCTOBER 2019

CHARGING INFRASTRUCTURE DEPLOYMENT

SUPERCHARGER CHARGE POST VER. 3 (PN 1088585-00-E)		
POST INPUT/OUTPUT [POWER]	Peak Post Power	250 kW
	Peak Post Voltage	500 V _{DC}
	Post Continuous Current	350 A _{DC} @ 35°C
DC INPUT [MECHANICAL]	Power Conductors	V+, V- : 2x 350MCM or 185mm ² Aluminum (certified equipment wiring)
	PE Conductor	PE: 25 - 50mm ² , 3AWG – 1/0
	Conduit	1x 4 inch inner diameter conduit fit for underground electrical application per charge post. Up to 4 conduits clustered directly adjacent. Minimum of 24 inches (center-center) between clusters.
	Conductor Material Type	V+, V- : Cu, Al PE: Cu
	Conductor Voltage Rating	1000V
	Mfr. Termination Temp Rating	90° C
PROTECTION	Over Current/Temperature, Uneven Current Split	
ENVIRONMENTAL	Operating Temperature	-40°C to 50°C, -40°F to 122°F
	Ingress Protection	IP44
CERTIFICATIONS	cTUVus to UL 2202, CSA 22.2 NO 107.1-16	
LAYOUT	Max. Distance to Cabinet	100 m, 340 ft.
WEIGHT	Charge Post Weight	64 kg, 140 lbs. <i>approximate</i>
DIMENSIONS	Depth, Width, Height	250, 810, 1687 mm; 9 ²⁷ / ₃₂ , 31 ⁷ / ₈ , 66 ¹³ / ₃₂ in.
MOUNTING	Per-anchor min. Shear Strength	1 kN
	Per-anchor min. Tension Strength	11 kN

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

GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER: RUSSEL SHEPPARD	

F	01.16.20	SIGNED AND SEALED
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REV	DATE	DESCRIPTION

FOR
REFERENCE
ONLY

IT IS A VIOLATION OF THE LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER, TO
ALTER THIS DOCUMENT.

1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE

TESLA V3
DATASHEET





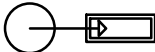


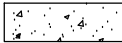

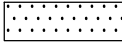

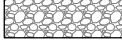
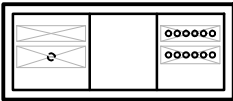










SHEET NUMBER

GENERAL CONSTRUCTION NOTES

1. FOR THE PURPOSE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR: TBD
CONTRACTOR: TBD
OWNER: TESLA
2. THE TOPOGRAPHIC SURVEY BY CLARK LANDSURVEYING, INC., DATED 07/15/2019 SHALL BE CONSIDERED A PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING IMPROVEMENTS PER THESE PLANS.
3. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS AND CITY RECORDS. DUE TO THE LIMITATIONS IN TECHNOLOGY AND GROUND CONDITIONS, NOT ALL UNDERGROUND UTILITIES ARE ABLE TO BE LOCATED. IF AN EXISTING UTILITY LINE IS DAMAGED DURING CONSTRUCTION, IT SHALL BE DETERMINED IF SAID UTILITY LINE WAS ABLE TO BE LOCATED WITH CURRENT TECHNOLOGY BEFORE THE UTILITY LOCATES WOULD TAKE RESPONSIBILITY. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.
4. ALL PROPERTY LINES, RIGHT OF WAYS, CENTERLINES, DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON A TOPOGRAPHIC SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD DOCUMENTS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
6. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUES ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
7. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND FEDERAL, STATE AND LOCAL JURISDICTION CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATION ON THE DRAWINGS.
9. 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 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 JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
11. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
12. THE GENERAL CONTRACTOR 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.
13. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
14. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
15. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEViate FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
16. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
17. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
18. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
19. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
20. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
21. 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.
22. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 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 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 CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE 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.
24. ONLY ITEMS SPECIFICALLY CALLED OUT TO BE REMOVED OR DEMOLISHED SHALL BE AFFECTED. ANY ITEMS INCLUDING, BUT NOT LIMITED TO, CURBS, PAVEMENT, UTILITY ITEMS, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AFFECTED ITEMS AT OWNERS DISCRETION.
25. 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 OWNER AND/OR LOCAL UTILITIES.
26. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
27. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
28. 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.
29. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT, SIDEWALKS AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
30. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
31. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
32. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
33. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
34. 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 FOR SERVICE EQUIPMENT). HANDICAP ACCESS MAY BE REQUIRED FOR CHARGING POSTS. SEE PLAN.
35. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

PROPOSED LEGEND

	SIGN ON POST		CURB
	SIGN ON POST IN BOLLARD		CURB AND GUTTER
	LIGHT POLE		TRANSVERSE STRIPING
	METER		PROPOSED CONCRETE
	CHARGING POST		PROPOSED ASPHALT
	CHARGING CABINET		PROPOSED RIVER ROCK
	SWITCHGEAR	 WM	WATER MAIN
	MASTER CONTROLLER	 W	WATER LINE
		 IR	IRRIGATION LINE
		 GAS	GAS LINE
		 ST	STORM LINE
		 SAN	SANITARY LINE
		 E	ELECTRIC MAIN
		 UE	ELECTRIC LINE
		 L/P	LIGHT POLE CONDUIT

EXISTING LEGEND

	APPARENT PROPERTY LINE		CATCH BASIN
	APPARENT RIGHT OF WAY		CURB INLET
	APPARENT CENTERLINE		STORM MANHOLE
	WATER MAIN		SANITARY MANHOLE
	WATER LINE		UNKNOWN MANHOLE
	IRRIGATION LINE		SANITARY VALVE
	GAS LINE		SEPTIC TANK
	STORM LINE		FIRE HYDRANT
	SANITARY LINE		WATER METER
	OVERHEAD ELECTRIC		WATER VALVE
	ELECTRIC MAIN		SPRINKLER HEAD
	ELECTRIC LINE		WATER MANHOLE
	LIGHT POLE CONDUIT		GAS VALVE
	EXISTING BUILDING		GAS METER
	LIGHT POLE		GAS MANHOLE
	POWER POLE		GAS SERVICE METER
	POWER/TELEPHONE POLE		TELEPHONE PEDESTAL
	LIGHT/TELEPHONE POLE		TELEPHONE MANHOLE
	TELEPHONE POLE		CABLE TV PEDESTAL
	POWER/LIGHT POLE		BOLLARD
	POWER/LIGHT/TELE POLE		SIGN
	UNKNOWN POLE		LUMINESCENT SIGN
	ELECTRIC METER		CLEANOUT
	ELECTRIC MANHOLE		YARD LIGHT
	TRANSFORMER		FLAG POLE
	ELECTRIC PULLBOX		GAS PUMP
			MAIL BOX

TRAFFIC CONTROL NOTES

1. DURING THE CONSTRUCTION PERIOD; SIDEWALKS, SHOULDERS, TRAVEL LANE(S), OR STREETS MAY HAVE TO BE TEMPORARILY CLOSED OR RESTRICTED FOR THE UNLOADING / LOADING OF EQUIPMENT OR AS A RESULT OF CONSTRUCTION ACTIVITIES THEMSELVES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DIRECTLY WITH THE LOCAL GOVERNING AUTHORITIES ON ANY SUCH CLOSURES AND MUST OBTAIN WRITTEN PERMISSION FROM THE APPROPRIATE AUTHORITIES PRIOR TO IMPLEMENTING SUCH CLOSURES OR RESTRICTIONS. ANY CLOSURE OR RESTRICTION MUST COMPLY WITH THE STATE MANUAL OF UNIFORM CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION AND REVISION), AND WITH ANY AND ALL ADDITIONAL APPLICABLE CITY, VILLAGE, OR COUNTY REQUIREMENTS. THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL TRAFFIC CONTROL / MOT PLAN TO THE LOCAL GOVERNING AUTHORITIES IF REQUESTED. ALL REQUIRED CONSTRUCTION TRAFFIC MAINTENANCE DEVICES SHALL BE PROVIDED, ERECTED AND MAINTAINED, AND ULTIMATELY REMOVED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES AND INTERSECTING STREET AT ALL TIMES DURING THE CONSTRUCTION OF THE IMPROVEMENTS ANTICIPATED. DRIVEWAYS MUST BE MAINTAINED AND ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WORK DAY. PER THE STATE MUTCD AND OTHER APPLICABLE APPROPRIATE GOVERNING REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRIERS, CONES, SIGNAGE, BARRELS, MESSAGE BOARDS, LIGHTING, FLAGMEN, LAW ENFORCEMENT OFFICERS, ETC. TO AVOID DAMAGE AND / OR INJURY TO VEHICLES AND PERSONS TRAVERSING THE CONSTRUCTION AREA.



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



GPD GROUP
Professional Corporation

520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER: RUSSEL SHEPPARD	

F	01.16.20	SIGNED AND SEALED
E	12.19.19	SIGNED AND SEALED
D	10.28.19	ISSUED FOR 100% REVIEW
C	10.10.19	ISSUED FOR 100% REVIEW
B	10.04.19	ISSUED FOR 100% REVIEW
A	08.01.19	ISSUED FOR 50% REVIEW
REV	DATE	DESCRIPTION

GPD Group, Professional Corporation
Texas Registration No. 16477



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

PART 1 - GENERAL

1.1 REFERENCES:

- ## 1.2 INSPECTION AND TESTING

- ### 1.3 SITE MAINTENANCE AND PROTECTION:

- ## PART 2 - PRODUCTS

- | SIEVE SIZE | TOTAL PERCENT PASSING |
|----------------------|-----------------------|
| 1 1/2 INCH (37.5 MM) | 100 |
| 1 INCH (25.0 MM) | 75 TO 100 |
| 3/4 INCH (19.00 MM) | 80 TO 100 |
| 3/8 INCH (9.5 MM) | 35 TO 75 |
| NO. 4 (4.75 MM) | 30 TO 60 |
| NO. 30 (0.600 MM) | 7 TO 30 |
| NO. 200 (0.75 MM) | 3 TO 15 |

3.1 GENERAL:

- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE 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.

- ### 3.2 BACKFILL:

- ### 3.3 TRENCH EXCAVATION:

- A. 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.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, CONTACT ENGINEER IMMEDIATELY.

- 3.4 TRENCH BACKFILL:
- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.

- D. PLACE GRANULAR TRENCH 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.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-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 PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

- ### 3.5 FINISH GRADING

- ## MATERIALS.

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

- D. CONTRACTOR TO GRADE SITE TO DRAIN AND NOT POND WATER.

- ### 3.6 ASPHALT PAVING:

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING PER LOCAL DOT SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.

SIGN POST NOTES.

1. ACCEPTABLE COLOR SUBSTITUTIONS:
2. OTHER ACCEPTABLE COLORS CAN BE FOUND ON [ENCYCOLORPEDIA.COM](http://encycolorpedia.com)
3. CONTRACTOR SHALL COORDINATE WITH CITY WHEN SPECIAL JURISDICTIONAL/CITY REQUESTS ARE NECESSARY FOR ANY SIGN POST INSTALLATIONS, I.E. POST MATERIAL, PAINT COLORS, HARDWARE, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING CITY APPROVES ALL MATERIALS PRIOR TO INSTALLATION.

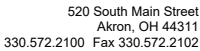
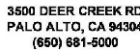
PAINT COLOR SUBSTITUTIONS	
<u>BRAND</u>	<u>COLOR</u>
PANTONE	COOL GRAY #7 #a6a19e
BENJAMIN MOORE	FUSION / AF-675 #a6a3a1
BEHR	EQUINOX FF31-1 #9fa29d
SHERWIN - WILLIAMS	STAMPED CONCRETE - 7655 #a2a29b
VALSPAR	STONE MASON GRAY #a19c99

LANDSCAPE/IRRIGATION NOTES

1. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR MULCHED SHALL BE GRADED TO MATCH EXISTING CONDITIONS AND SODDED AT A 3:1 MAXIMUM SLOPE.
2. SOD SHALL BE SELECTED PER ZONE AND MATCHED TO EXISTING SITE. SOD SHALL BE A FIRST GRADE CERTIFIED BLEND CONTAINING NO MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS.

ZONES 3, 4 & 5: APPROVED BLUE GRASS BLEND
 ZONE 6: APPROVED FESCUE BLEND
 ZONES 7 & 8: APPROVED BERMUDA BLEND
 ZONES 9 & 10: APPROVED ST AUGUSTINE FLORATAM BLEND

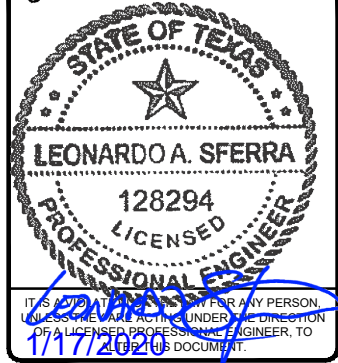
3. ALL DISTURBED AND PROPOSED LANDSCAPE AREAS SHALL RECEIVE 3" OF DOUBLE SHREDDED BARK MULCH TO MATCH EXISTING CONDITIONS.
4. PLANT GUARANTEE (IF APPLICABLE): CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.
5. IRRIGATION RELOCATION: CONTRACTOR FIELD VERIFY IF EXISTING IRRIGATION IS PRESENT, DETERMINE POINT OF CONNECTION, SYSTEM PRESSURE, FIXTURE TYPES, AND POTENTIAL FOR EXPANSION. IF FOUND THAT THE EXISTING IRRIGATION SYSTEM IS CAPABLE OF EXPANSION AND REUSE THAN IT SHALL BE MODIFIED TO PROVIDE 100% COVERAGE OF THE LANDSCAPE AREA. IF THE EXISTING IRRIGATION SYSTEM IS NOT CAPABLE OF EXPANSION, CONTRACTOR TO INSTALL A NEW CONTROLLER, BOOSTER PUMP, AND OTHER APPARATUSSES NEEDED FOR A COMPLETE IRRIGATION SYSTEM. IRRIGATED AREAS SHALL BE IRRIGATED BY DRIP IRRIGATION OR SIMILAR FIXTURES BY THE SAME SUPPLIER. CONTRACTOR SHALL ENSURE BUILDING WALLS AND WINDOWS WILL NOT BE DAMAGED OR STAINED BY IMPROPER IRRIGATION INSTALLATION OR POOR SELECTION OF FIXTURES. SYSTEM SHALL INCLUDE ALL SPRINKLER FIXTURES, DRIP TUBING, PIPING, VALVES, WIRING AND CONTROLS TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM THAT SHALL COMPLY WITH CITY CODE. PRIOR TO UPDATING THE IRRIGATION SYSTEM, A CERTIFIED IRRIGATION DESIGNER SHALL PROVIDE SHOP DRAWINGS TO ENGINEER FOR APPROVAL. UPON APPROVAL OF SHOP DRAWINGS, THE UPDATED IRRIGATION SYSTEM SHALL BE APPROVED BY OWNER FOR FINAL ACCEPTANCE.



GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER: RUSSEL SHEPPARD	

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GPD Group, Professional Corporation
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1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-2

LEGEND



SCHEDULE B2 EXCEPTIONS:

- Item No.
1. ALL MATTERS SHOWN ON PLAT Recorded Cabinet AA Slide 220
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
2. EASEMENT ESTABLISHED ON PLAT Recorded Cabinet Y Slide 112
-DOCUMENT NOT PROVIDED.
3. EASEMENT DOCUMENT NO: 2003113780
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: CITY OF GEORGETOWN
-IS NOT LOCATED ON OR AFFECT SURVEY AREA.
4. EASEMENT DOCUMENT NO: 2003113781
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: CITY OF GEORGETOWN
-IS LOCATED ON SURVEY AREA, SHOWN HEREON.
5. EASEMENT DOCUMENT NO: 2003113782
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: CITY OF GEORGETOWN
-IS LOCATED ON SURVEY AREA, SHOWN HEREON.
6. EASEMENT DOCUMENT NO: 2003113783
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: CITY OF GEORGETOWN
-IS LOCATED ON SURVEY AREA, SHOWN HEREON.
7. OPERATION AND EASEMENT AGREEMENT DOCUMENT
NO: 2003124160
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: TARGET CORPORATION
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
8. SUPPLEMENT AGREEMENT DOCUMENT NO: 2004073657
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: KOHL'S TEXAS, L.P.
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
9. AMENDMENT DOCUMENT NO: 2007096288
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: TARGET CORPORATION
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
10. AMENDMENT DOCUMENT NO: 2011087599
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: TARGET CORPORATION
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
11. ASSIGNMENT DOCUMENT NO: 2014079108
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: WPG WOLF RANCH LLC
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
12. SIGN EASEMENT DOCUMENT NO: 2004073659
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: KOHL'S TEXAS, L.P.
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
13. ACCESS EASEMENT DOCUMENT NO: 2009091677
GRANTOR: SPG WOLF RANCH L.P.
GRANTEE: STEAK N SHAKE OPERATIONS, INC.
-IS NOT LOCATED ON OR AFFECT SURVEY AREA.
14. RESTRICTION DOCUMENT NO: 2014097954
GRANTOR: WPG WOLF RANCH, LLC
GRANTEE: NET3 (GEORGETOWN II), LLC
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
15. RESTRICTION DOCUMENT NO: 2015048063
GRANTOR: WPG WOLF RANCH, LLC
GRANTEE: EVC GEORGETOWN, L.P.
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
16. AMENDMENT DOCUMENT NO: 2016030815
GRANTOR: WPG WOLF RANCH, LLC
GRANTEE: EVC GEORGETOWN, L.P.
-IS NOT LOCATED ON OR AFFECT SURVEY AREA.
17. WASTEWATER EASEMENT DOCUMENT NO: 2016078607
GRANTOR: WPG WOLF RANCH, LLC
GRANTEE: EVC GEORGETOWN, L.P.
-IS NOT LOCATED ON OR AFFECT SURVEY AREA.
18. RESTRICTION DOCUMENT NO: 2017013539
GRANTOR: WPG WOLF RANCH, LLC
GRANTEE: EP GEORGETOWN, L.P.
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
19. LEASE DOCUMENT NO: 2018070271
GRANTOR: WPG WOLF RANCH, LLC
GRANTEE: ULTA SALON, COSMETICS & FRAGRANCE, INC.
-IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
- Items not listed above are determined non-survey related items and are not plotted hereon.

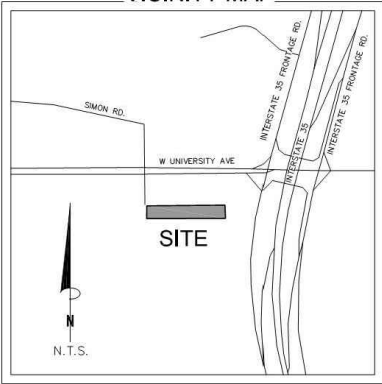
PROPERTY DESCRIPTION:

APN: R000001579
LOT 2A, BLOCK "A", AMENDED PLAT OF LOT 2 AND 8 "A" WOLF RANCH SUBDIVISION, ACCORDING TO MAP OR PLAT THEREFORE RECORDED IN CABINET AA, SLIDE 220, OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS.

NOTES:

1. This is a topographic map. This is not a boundary survey and is only intended to depict those topographic features or improvements shown. The property lines shown are record lines only and are shown for graphical reference only.
2. Any underground utilities shown have been located from field survey information. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available.
3. FEDERAL EMERGENCY MANAGEMENT AGENCY, Flood Insurance Rate Map, Map Number effective date September 26, 2008, indicates this parcel of land is located in Zone X (Areas determined to be outside the 0.2% annual chance floodplain).
4. This survey does not constitute a title search by Clark Land Surveying, Inc. to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, Clark Land Surveying, Inc. relied upon a Title Search, prepared by Hollerbach & Associates, inc., order numbers HA301730, dated July 03, 2019.
5. BENCH MARK: X Chiseled in conc curb, as shown. Elevation: 796.34' (NAVD 88).
6. BASIS OF BEARINGS: Bearings are based on Texas State Plane, Zone 4203 (Central)
7. Field work for this survey was completed on July 10, 2019.
8. This site is zoned "C-3" (General Commercial District) per City of Georgetown Planning Department.
Building Setback:
Front- 25'
Side- 10'
Side- 15' (abutting residential district)
Rear- 10'
Rear- 25' (abutting residential district)
- No zoning information provided by the client. Zoning setbacks shown hereon are the interpretation of the surveyor. For clarification of exact zoning designations and setback locations, please, contact the City of george Planning and Zoning Department at (512) 930-3575.

VICINITY MAP



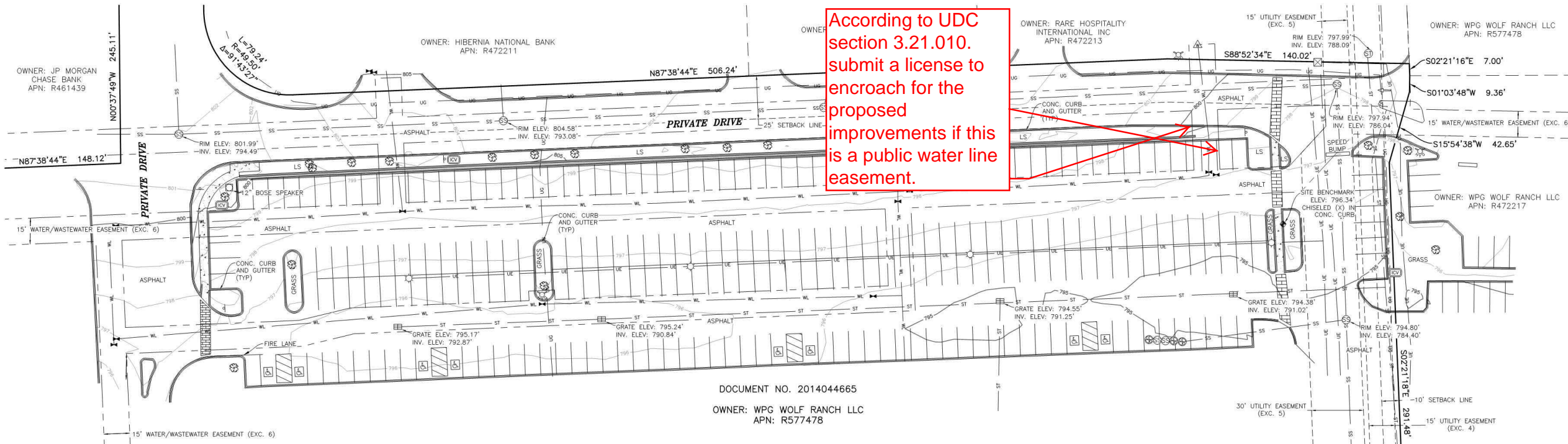
SURVEYOR'S STATEMENT:

On the basis of my knowledge, information and belief, I hereby state and declare that this drawing was prepared under my direct supervision to the standard of care of surveyors practicing in the State of Texas and that the information shown hereon is true and correct to the best of my knowledge and belief.

This statement is neither a warranty nor a guarantee, either expressed or implied.

R.L. McCrary
Registered Professional Land Surveyor No. 5384
For and on behalf of Clark Land Surveying, Inc.

FOR REFERENCE ONLY
NOT TO SCALE



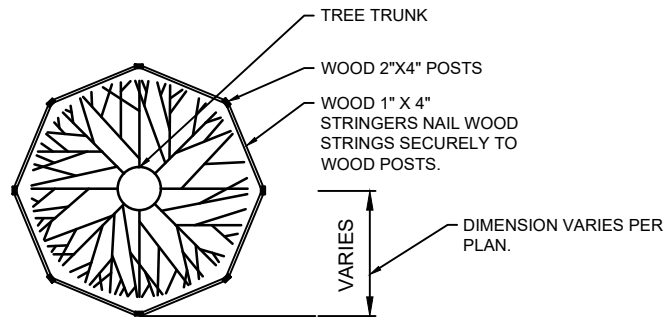
DOCUMENT NO. 2014044665
OWNER: WPG WOLF RANCH LLC
APN: R577478



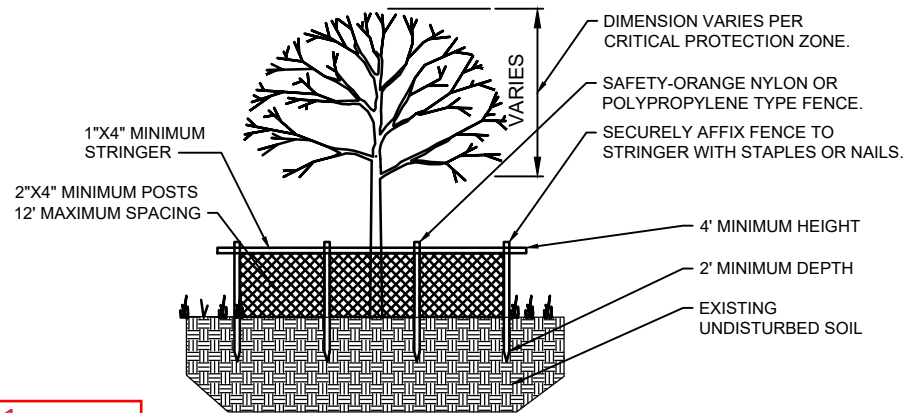
No.	Description	By	Date

SITE NAME:
GEORGETOWN, TX.
WOLF RANCH

TOPOGRAPHIC SURVEY	Project No.
A PORTION OF THE C. STUBBLEFIELD SURVEY	190537
SURVEY ABSTRACT NUMBER 558	
CITY OF GEORGETOWN, WILLAMSON COUNTY, TEXAS	
Drawn By: DKL	Date: 07/15/2019
Checked By: RLM	Sheet 1 of 1



NOTE: FOR GROUPS OF TREES PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY.
*TREE PROTECTIONS BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE.



TREE PRESERVATION FENCE

N.T.S

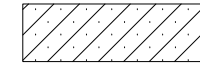
Per Sec 1.11
- Show existing trees
in this area on all
sheets where
landscape is shown

GENERAL SHEET NOTES

1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
2. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
3. FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.

DEMOLITION KEYNOTES AND LEGEND

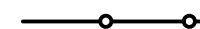
1. EXISTING CURB AND GUTTER TO BE REMOVED. CONTRACTOR SHALL TAKE GREAT CARE IN REMOVAL OF CURB AS TO NOT IMPACT THE INTEGRITY OF THE EXISTING RETAINING WALL.
2. EXISTING PAVEMENT MARKINGS TO BE REMOVED. CONTRACTOR SHALL REMOVE MARKINGS WITH SMALL HANDHELD GRINDERS, SCARIFIERS, BEAD BLASTING OR OTHER METHODS, WITH THE APPROVAL OF THE ENGINEER OF RECORD. TAKE CARE DURING MARKING REMOVAL TO NOT SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT SURFACE. DO NOT OVER PAINT OR USE OTHER METHODS OF COVERING MARKINGS IN LIEU OF REMOVAL.
3. EXISTING TREE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.



EXISTING ASPHALT TO BE REMOVED
(APPROXIMATELY 2020 SF)
TRENCHING NOT INCLUDED

XX L.F. ±

DENOTES LIMITS OF SAWCUT



PROPOSED TREE PROTECTION FENCE



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



520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

GPD PROJECT NUMBER: 2019141.80

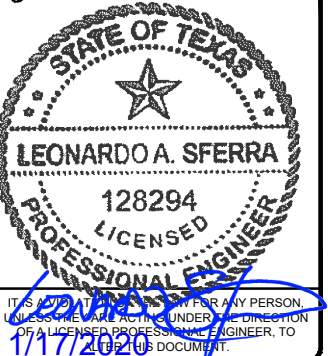
DRAWN BY: LMJ

CHECKED BY: RP/EPM

INSTALLATION MANAGER: RUSSEL SHEPPARD

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F	01.16.20	SIGNED AND SEALED
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GPD Group, Professional Corporation
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1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C-2

DEMOLITION PLAN

0' 7.5' 15'

SCALE: 1"=15'

GENERAL SHEET NOTES
1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND

V3 (250kW) TESLA OUTDOOR EQUIPMENT SCHEDULE			
TESLA EQUIPMENT	DESCRIPTION	PART NUMBER	QUANTITY
CHARGING CABINET	VERSION 3	1450758-00-D	4
CHARGING POST	VERSION 3	1088585-00-D	16

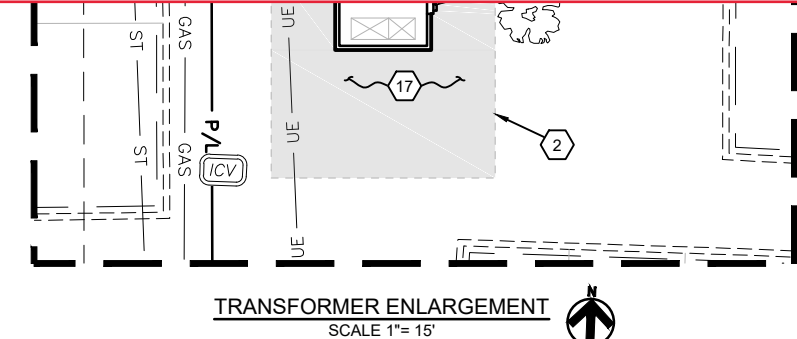
CONSTRUCTION KEYNOTES AND LEGEND	
1. PROPOSED PAD MOUNTED ELECTRICAL UTILITY TRANSFORMER (BY UTILITY). CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY SPECIFICATIONS. COORDINATE FINAL LOCATION WITH UTILITY. SEE ELECTRICAL PLANS FOR PROPOSED ROUTING.	10. PROPOSED TREX "SECLUSION" SINGLE GATE WITH KEYPAD AND PANIC HARDWARE (TYPICAL OF 2). SEE DETAILS ON SHEET C-8.
2. PROPOSED 6" CONCRETE CURB. SEE DETAIL ON SHEET C-6.	11. PROPOSED PAINTED 4" WIDE WHITE TRANSVERSE STRIPING. STRIPING SHALL BE 3'-0" O.C. SEE DETAIL ON SHEET C-7.
3. PROPOSED WHEELSTOPS (TYPICAL OF 16). SEE DETAIL ON SHEET C-8.	12. PROPOSED 6" CONCRETE CURB. SEE DETAIL ON SHEET C-6.
4. PROPOSED AND DISTURBED LANDSCAPE AREAS NOT TO BE PAVED SHALL BE MULCHED PER LANDSCAPE/IRRIGATION NOTES ON SHEET GN-2.	13. PROPOSED MASTER CONTROLLER MOUNTED ON H-FRAME. SEE ELECTRICAL SHEETS.
5. PROPOSED ADA SIGNAGE (TYPICAL OF 4). SEE DETAIL ON SHEET C-7.	14. DISTURBED LAWN AREA SHALL BE SODDED PER LANDSCAPE/IRRIGATION NOTES ON SHEET GN-2.
6. PROPOSED 6" CONCRETE CURB & GUTTER. SEE DETAIL ON SHEET C-9.	
7. PROPOSED ASPHALT (APPROXIMATELY 1390 SF). TRENCHING NOT INCLUDED	

Sec 1.11 Required Site Plan Notes

1. All lighting fixtures shall be designed to completely conceal and fully shield, within an opaque housing, the light source from visibility from any street right-of-way. The cone of light shall not cross any adjacent property line. The illumination shall not exceed 2 foot candles at a height of three feet at the property line. Only incandescent, fluorescent, color-corrected high-pressure sodium or metal halide may be used. All vehicle or pedestrian access shall be sufficiently lighted to ensure security of property and persons

2. All roof, wall and ground mounted mechanical equipment must be screened in accordance with Chapter 8 of the UDC. If roof and wall mounted equipment of any type including duct work and large vents is proposed it shall be shown on the Site Plan and screening identified. Screening of mechanical equipment shall result in the mechanical equipment blending in with the primary building and not appearing separate from the building and shall be screened from view of any rights-of-way or adjoining properties.

3. Per Chapter 8, the dumpster enclosures must be one (1) foot above the height of the waste container. Use protective poles in corners and at impact areas. Fence posts shall be of of rust protected metal or concrete. A minimum 6" slab is required and must be sloped to drain; the enclosure must have steel framed gates with spring loaded hinges and fasteners to keep closed. Screening must be on all four sides by masonry wall or approved fence or screening with opaque gates.



4C	ENABLED
4D	ENABLED

EXISTING TOTAL PARKING SPACES*	3,088
PROPOSED TOTAL PARKING SPACES	3,068

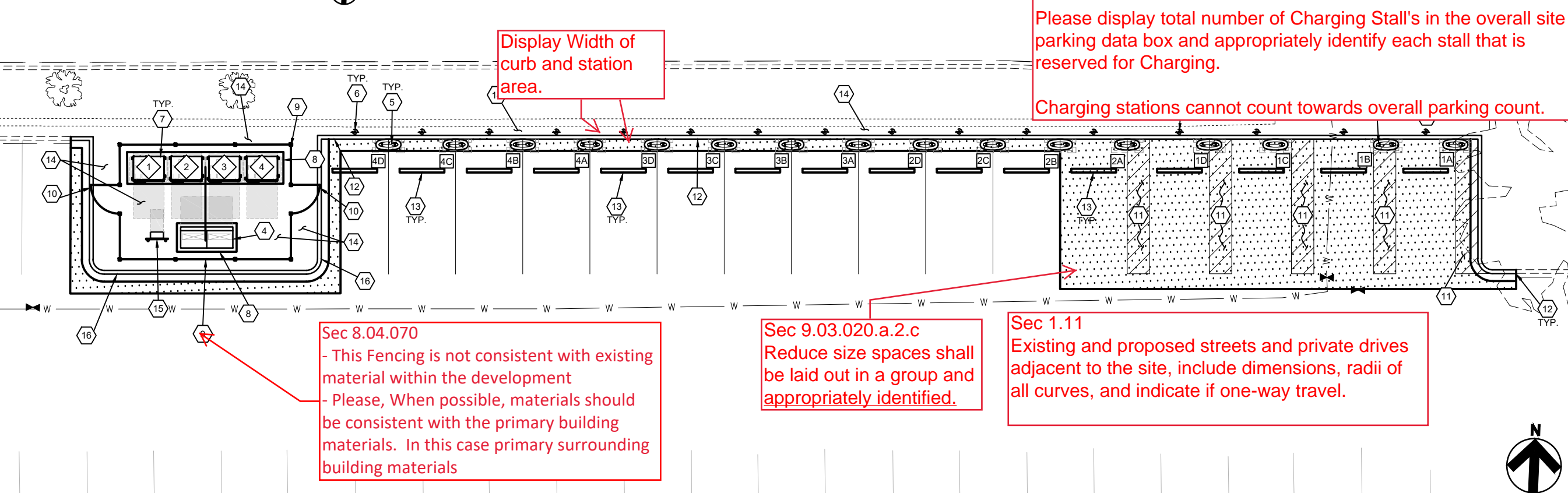
*DETERMINED FROM SHEET 10 OF THE EXISTING OVERALL SITE PLANS FOR WOLF RANCH, GEORGETOWN, TX FROM SIMON PROPERTY GROUP (PROJECT #: 1262-01.00 REV. 3R & C-15, DATED 03-15-05)

Sec. 10.16.090. - Electric vehicle charging stations.

A. No person shall stop, stand or park any vehicle in areas designated for electric vehicle charging for any purpose except charging of an electric vehicle.

Please display total number of Charging Stall's in the overall site parking data box and appropriately identify each stall that is reserved for Charging.

Charging stations cannot count towards overall parking count.



TESLA

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

GPD GROUP
Professional Corporation

520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	RUSSEL SHEPPARD

REV	DATE	DESCRIPTION
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C	10.10.19	ISSUED FOR 100% REVIEW
B	10.04.19	ISSUED FOR 100% REVIEW
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Leonardo A. Sferra, Professional Corporation
Registration No. 16477

STATE OF TEXAS

LEONARDO A. SFERRA
128294
LICENSED PROFESSIONAL ENGINEER

1/17/2020

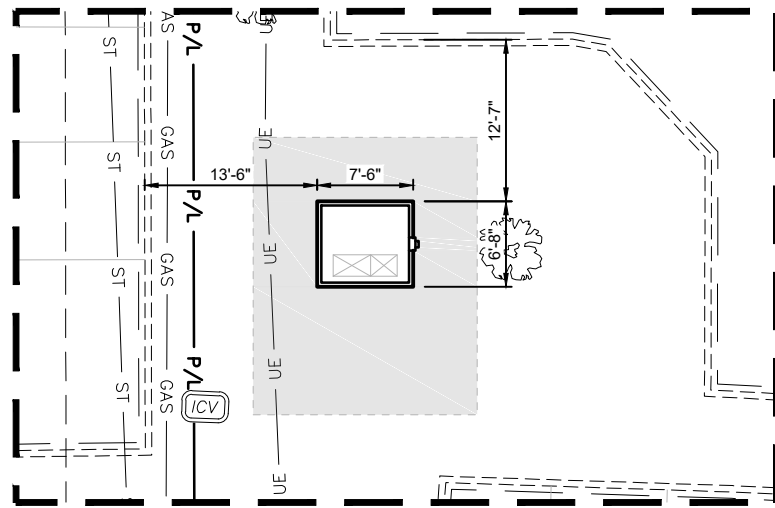
1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-3

SITE PLAN

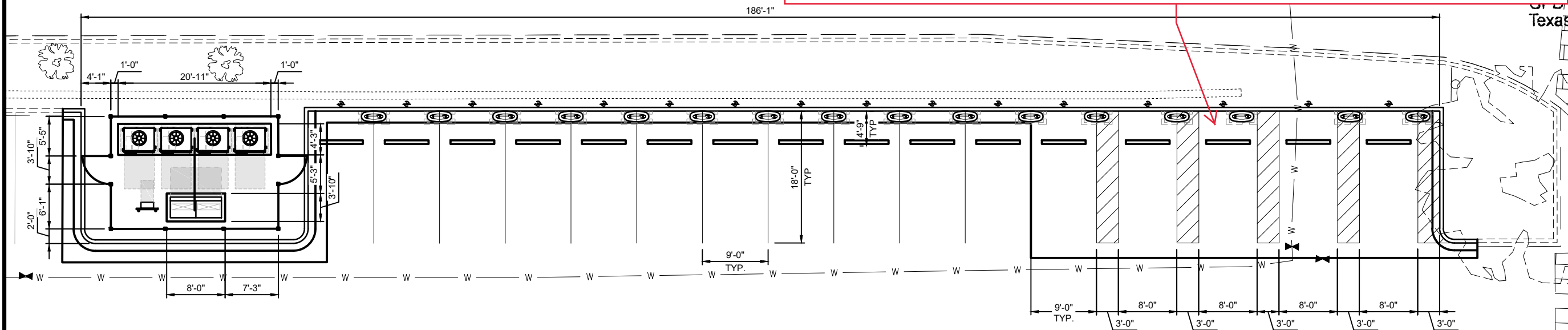
0' 7.5' 15' SCALE: 1"=15'



TRANSFORMER ENLARGEMENT
SCALE 1"= 15'

Sec 1.11
Display square footage of each transformer.

Sec 9.03.020.a.1 Parking space min size: 9' x 18'.
Sec 9.03.020.a.2.c Reduce size spaces shall be laid out in a group and appropriately identified.



EQUIPMENT DIMENSION PLAN

0' 7.5' 15'

SCALE: 1"=15'



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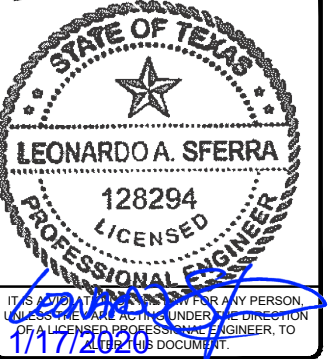


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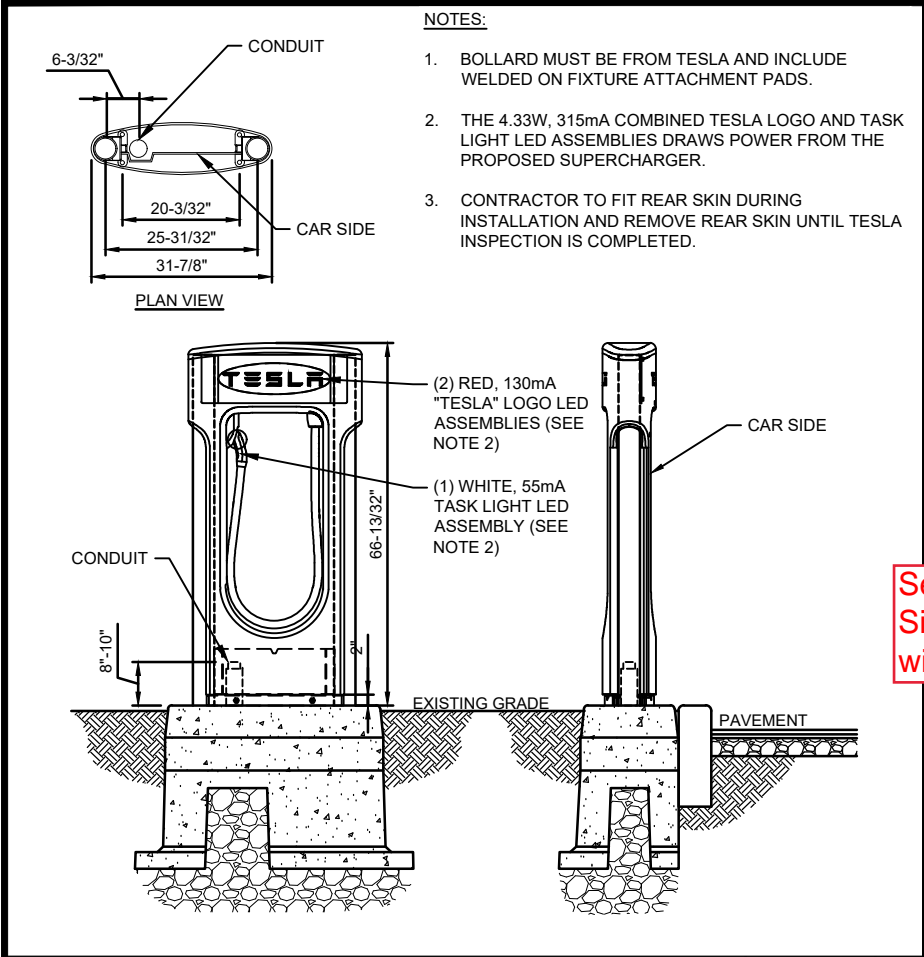


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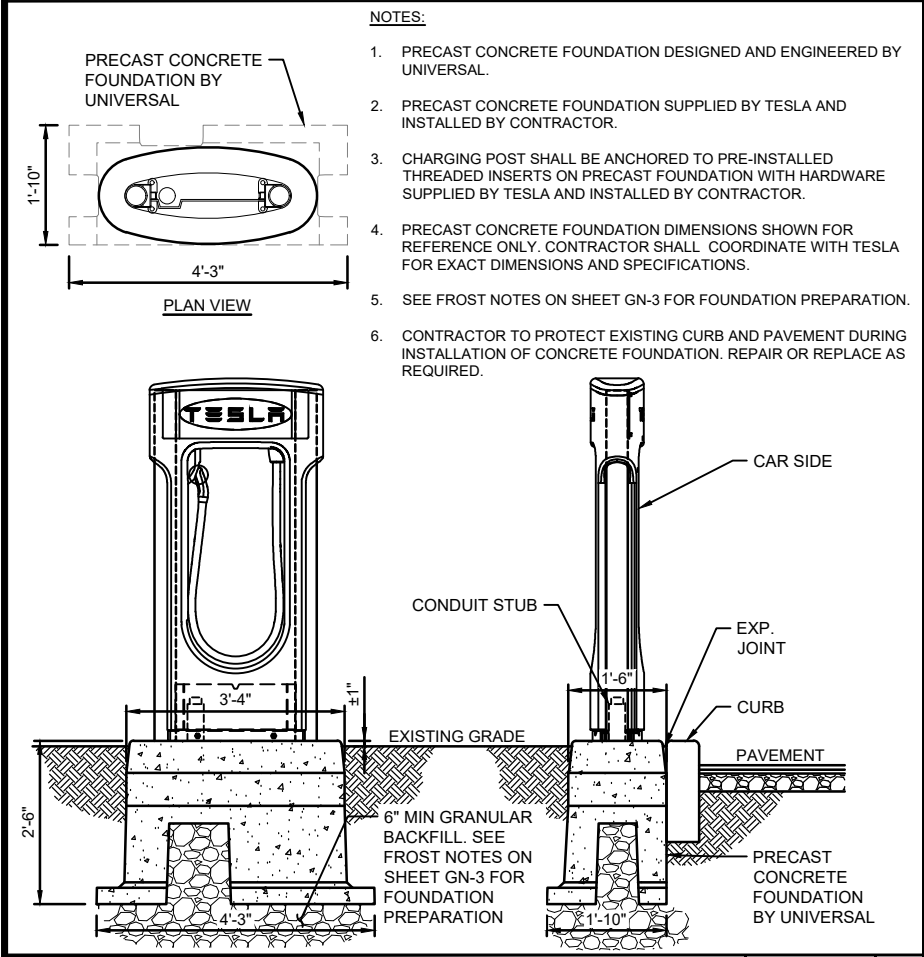
SHEET TITLE
EQUIPMENT
DIMENSION PLAN

SHEET NUMBER

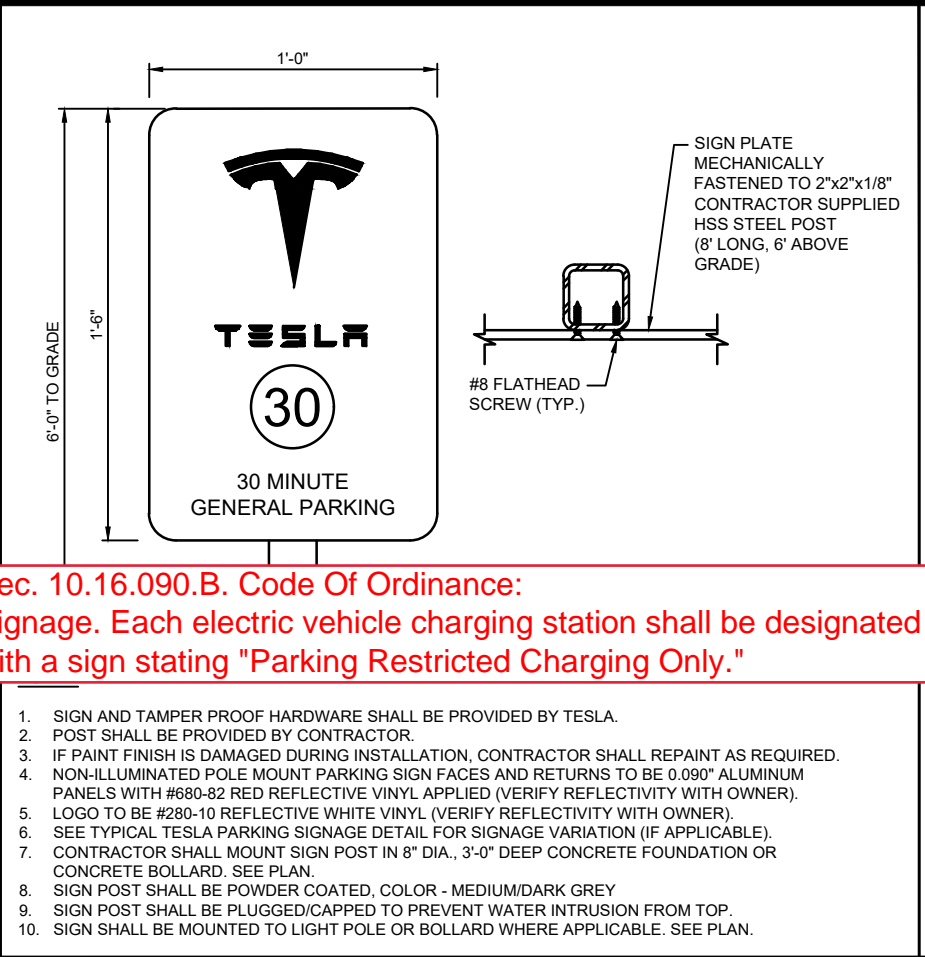
C-5



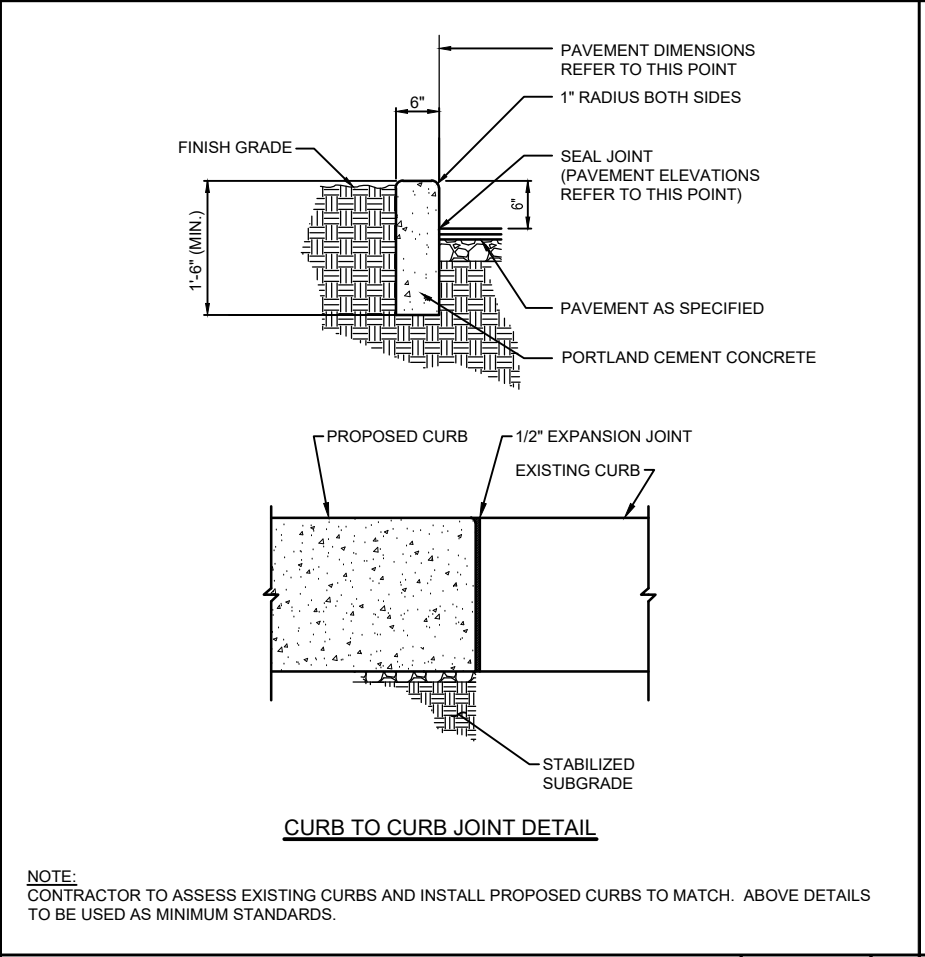
CHARGING POST ELEVATION



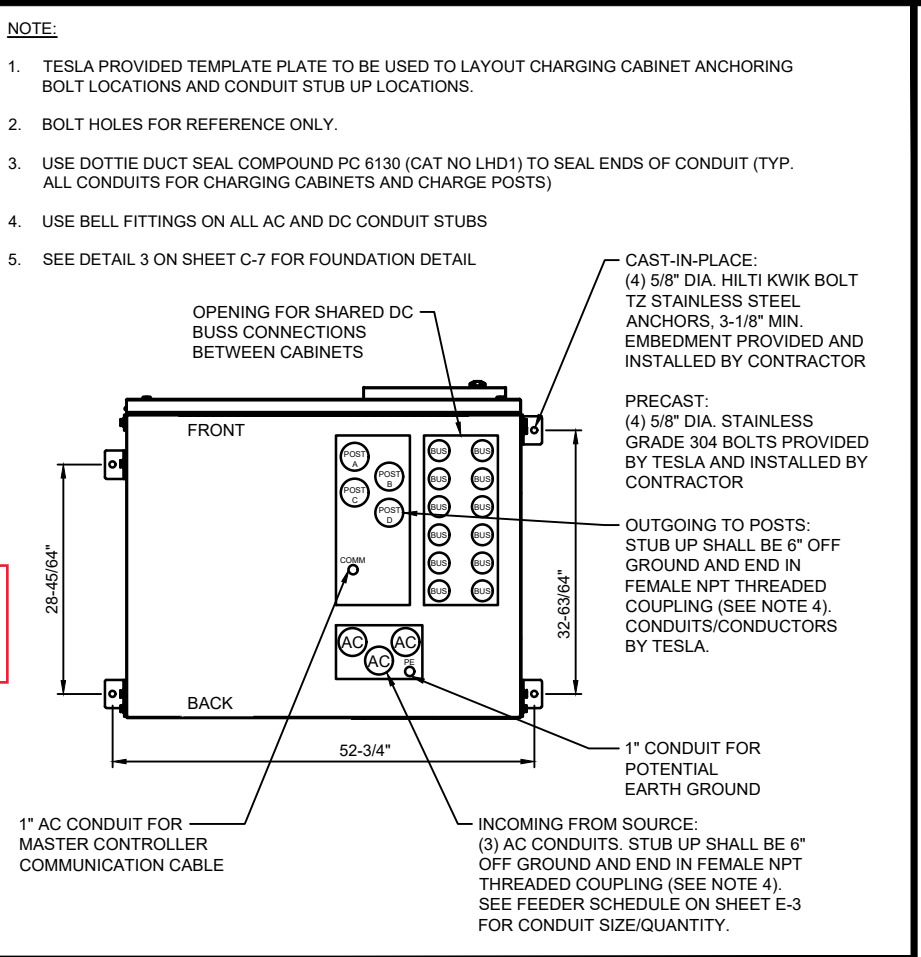
CHARGING POST CONCRETE FOUNDATION



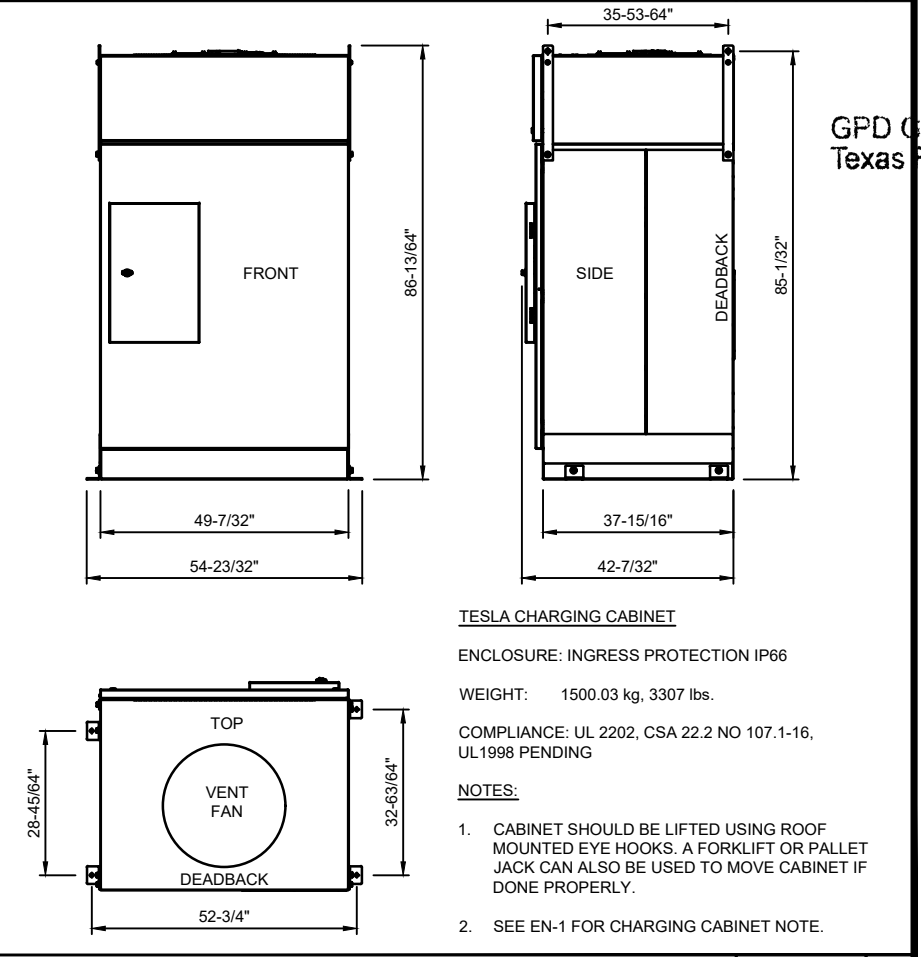
TESLA ENABLED NON-ILLUMINATED PARKING SIGN DETAIL



P.C.C. CURB DETAIL



TESLA CHARGING CABINET ANCHOR BOLT PLAN



TESLA CHARGING CABINET DETAIL

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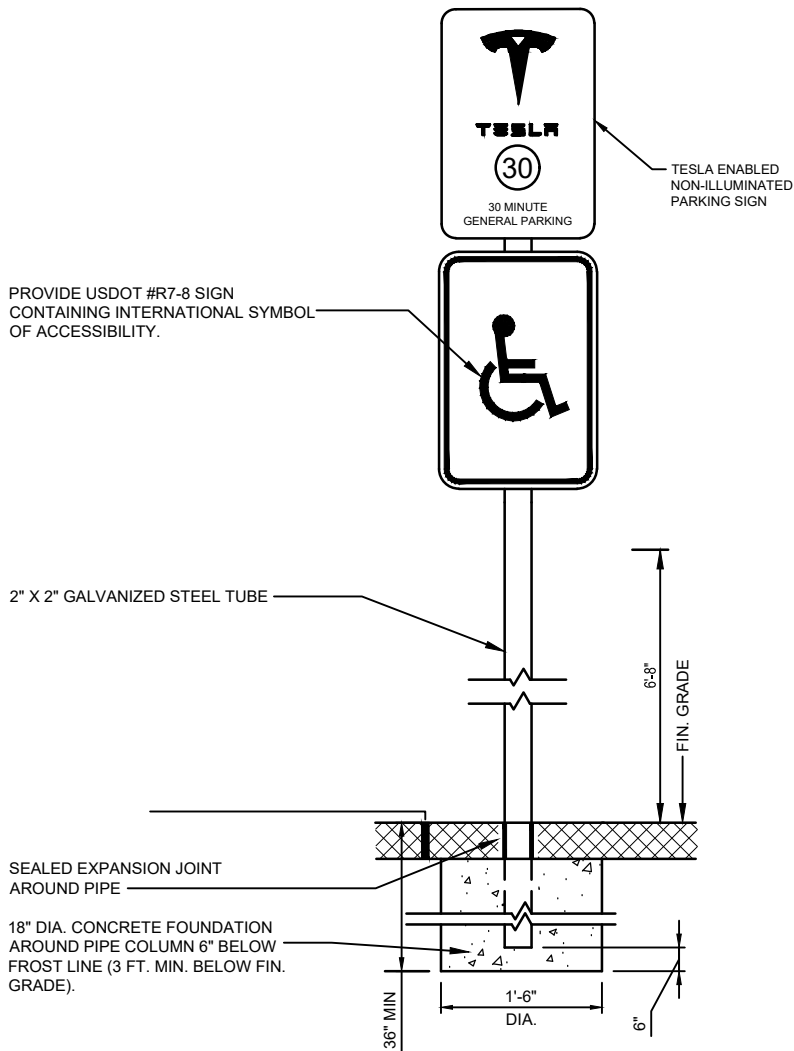
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Texas Registration No. 16477

1015 W UNIVERSITY AVE.
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SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
C-6

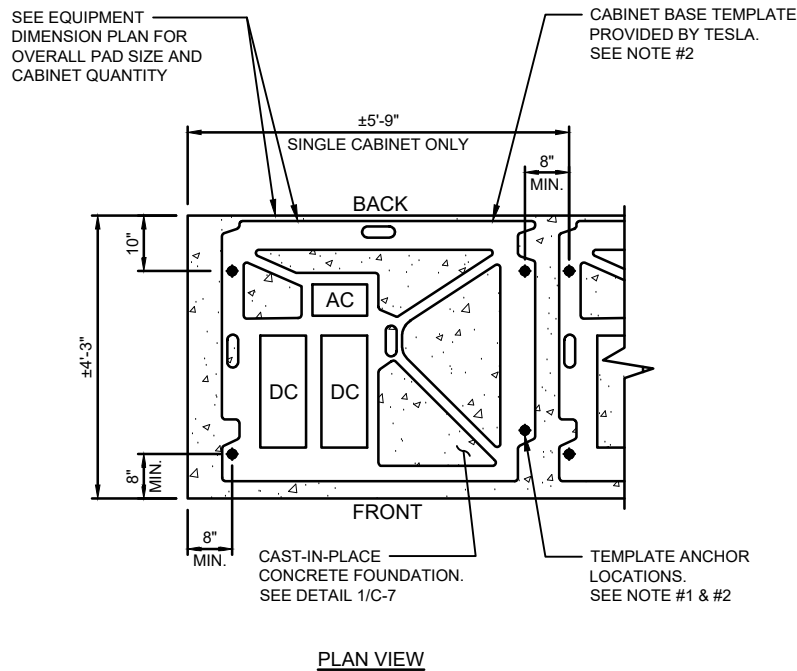


NOTES:

- CONTRACTOR SHALL VERIFY SIGN WITH LOCAL AND ADA REQUIREMENTS AND SPECIFICATIONS BEFORE INSTALLATION. LOCAL JURISDICTION SIGN REQUIREMENTS SHALL TAKE PRECEDENCE OVER THIS DETAIL.
- SIGNS SHALL BE LOCATED SO THAT THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
- SIGN TO BE PROVIDED AT ALL ACCESSIBLE PARKING SPACES AS PER ADA REGULATIONS.

NOTES:

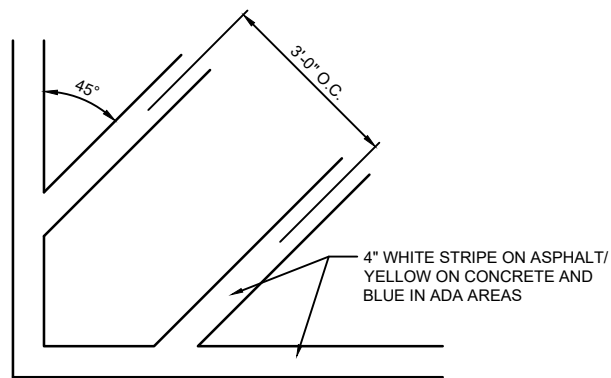
- CHARGING CABINET SHALL BE ANCHORED TO CAST-IN-PLACE FOUNDATION WITH (4) 5/8" DIA. HILTI KWIK BOLT TZ STAINLESS STEEL ANCHORS, 3-1/8" MIN. EMBEDMENT. PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE 8" MIN. EDGE DISTANCE AND 8" MIN. BOLT SPACING.
- CHARGING CABINET BASE TEMPLATE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH TESLA FOR EXACT DIMENSIONS AND SPECIFICATIONS.



CHARGING CABINET FOUNDATION DETAIL

N.T.S

3



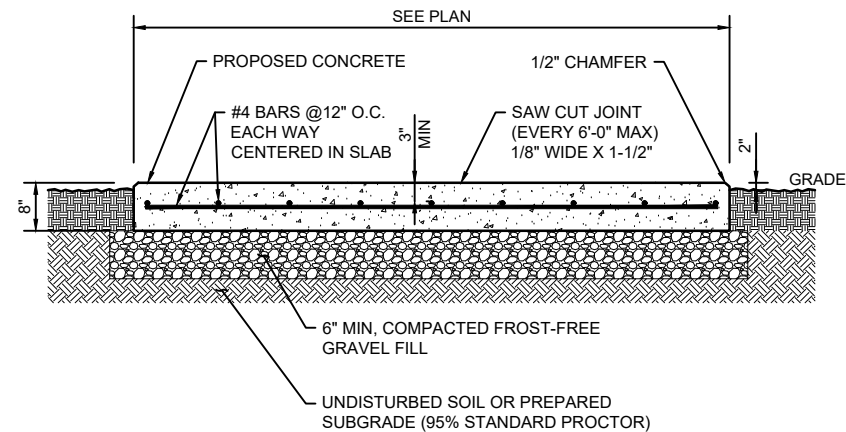
NOTES:

- ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE.
- MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC, PER LOCAL REQUIREMENTS AND AS FOLLOWS:
 - EXISTING SURFACES WITHOUT ANY SEAL COATING: OIL BASE (ALKYD RESIN TYPE TO MEET FEDERAL SPECIFICATION TTP-1952
 - NEW OR EXISTING SURFACES WITH A TOP COATING OR SEAL COATING (USUALLY WATER BASE FAST DRYING 100% ACRYLIC TYPE): WATER BASE TYPE TO MEET FEDERAL SPECIFICATION TTP-01952. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D3723, D1475, D562 AND D711.
- PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.
- APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.

TRANSVERSE STRIPING DETAIL

N.T.S

4



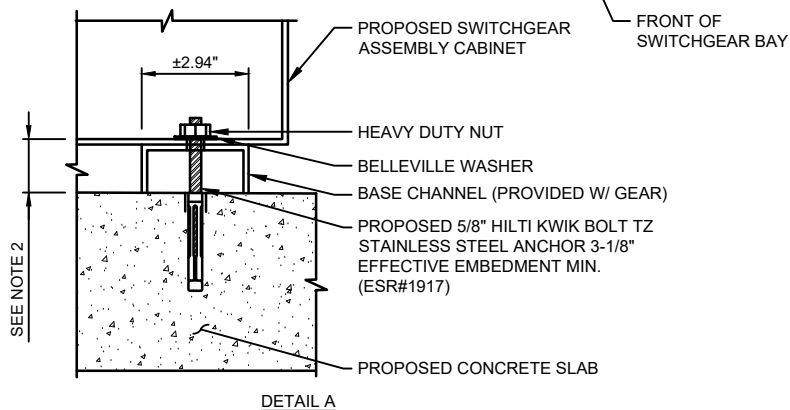
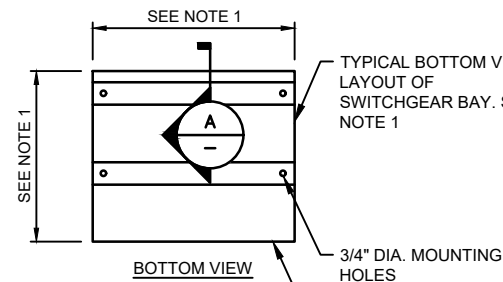
CONCRETE PAD NOTES & CONCRETE SPECIFICATIONS:

- FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
- UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
- CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4000 psi.
- REINFORCING BAR TO BE ASTM A615 GRADE 60.
- ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO ACI 318-14 AND APPLICABLE STATE BUILDING CODE.
- PAD SHALL BE A MINIMUM OF 8" IN THICKNESS. THICKNESS OF PAD SHALL INCREASE AS THE PERIMETER SOIL SURFACE SLOPES TO MAINTAIN A MINIMUM OF 6" OF SOIL COVER TO THE BOTTOM OF THE PAD.

CONCRETE PAD DETAIL

N.T.S

1



NOTES:

- SEE FLOOR PLAN ON ELECTRICAL SHEETS FOR MOUNTING HOLE LOCATION AND SWITCHGEAR BAY DIMENSIONS.
- SEE ELEVATION ON ELECTRICAL SHEETS FOR BASE CHANNEL DIMENSION.
- MINIMUM EDGE DISTANCE FOR PROPOSED ANCHORAGE SHALL BE 8".

SWITCHGEAR MOUNTING DETAIL

N.T.S

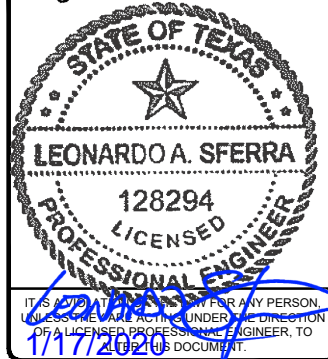
2



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Texas Registration No. 16477



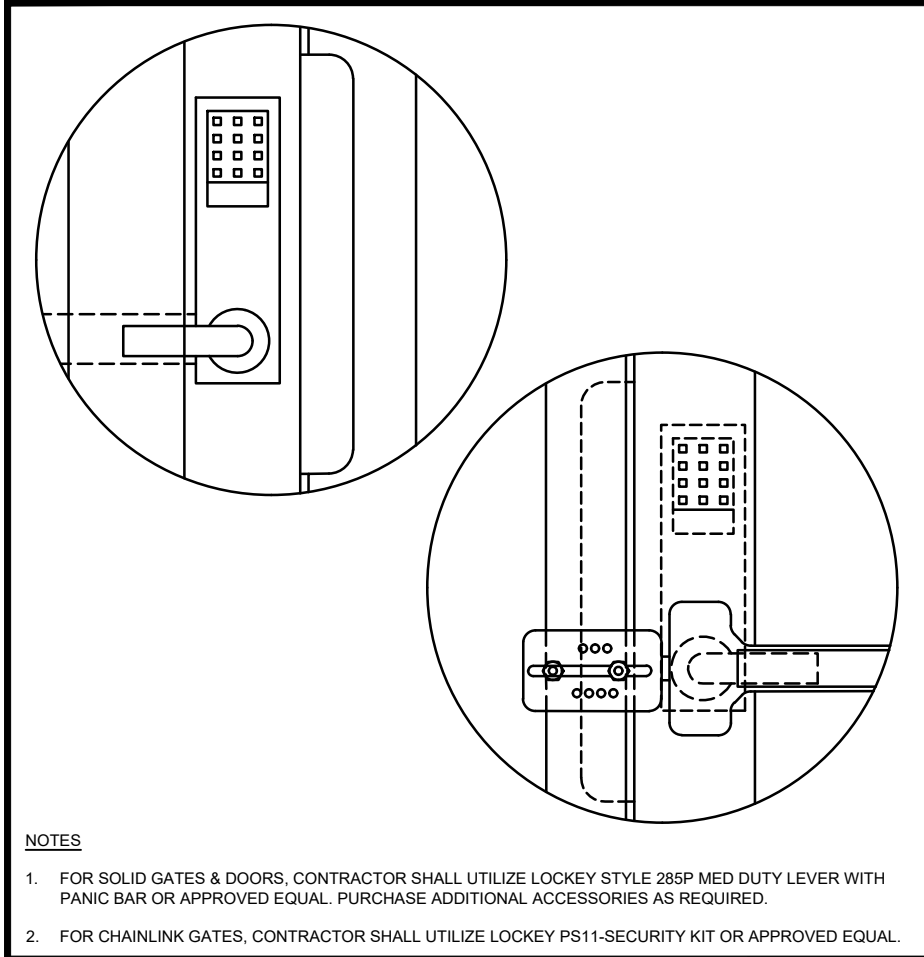
1015 W UNIVERSITY AVE.
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SHEET TITLE

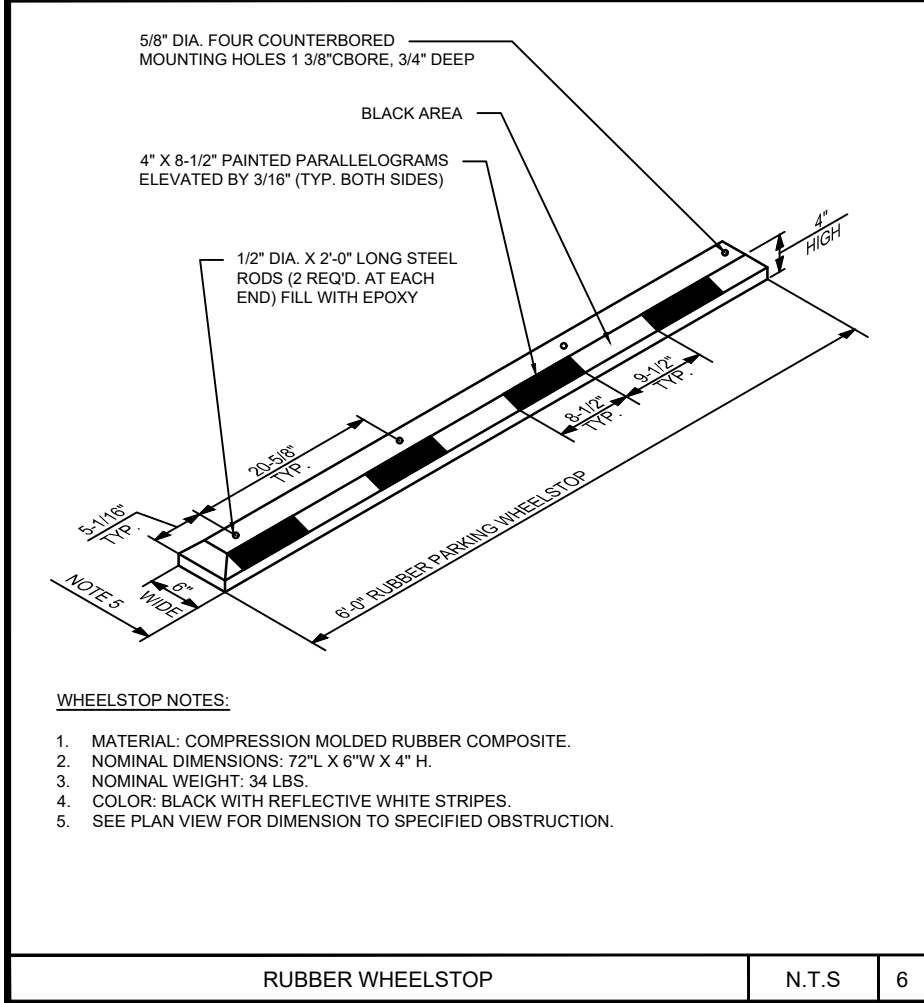
CIVIL DETAILS

SHEET NUMBER

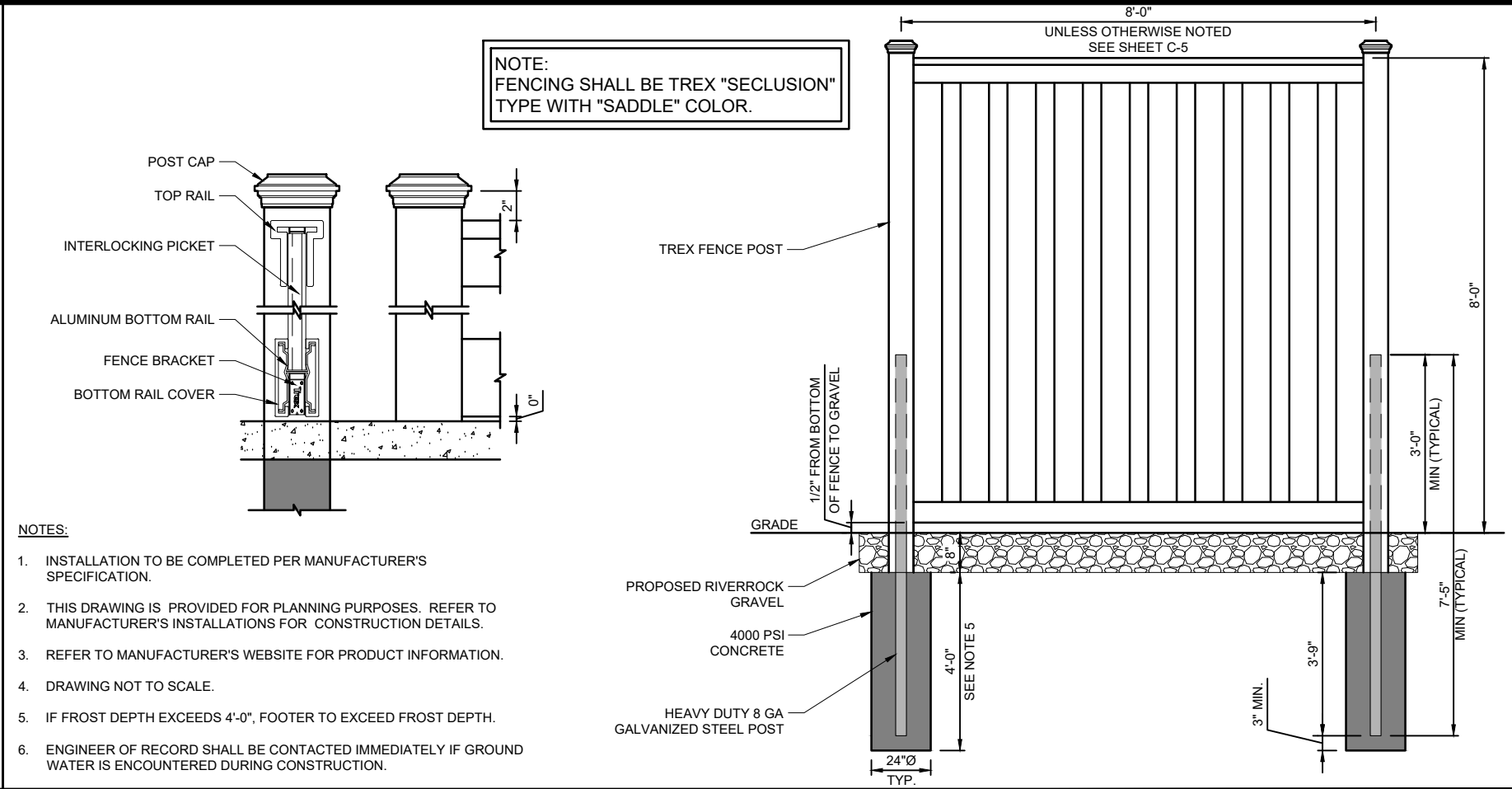
C-7



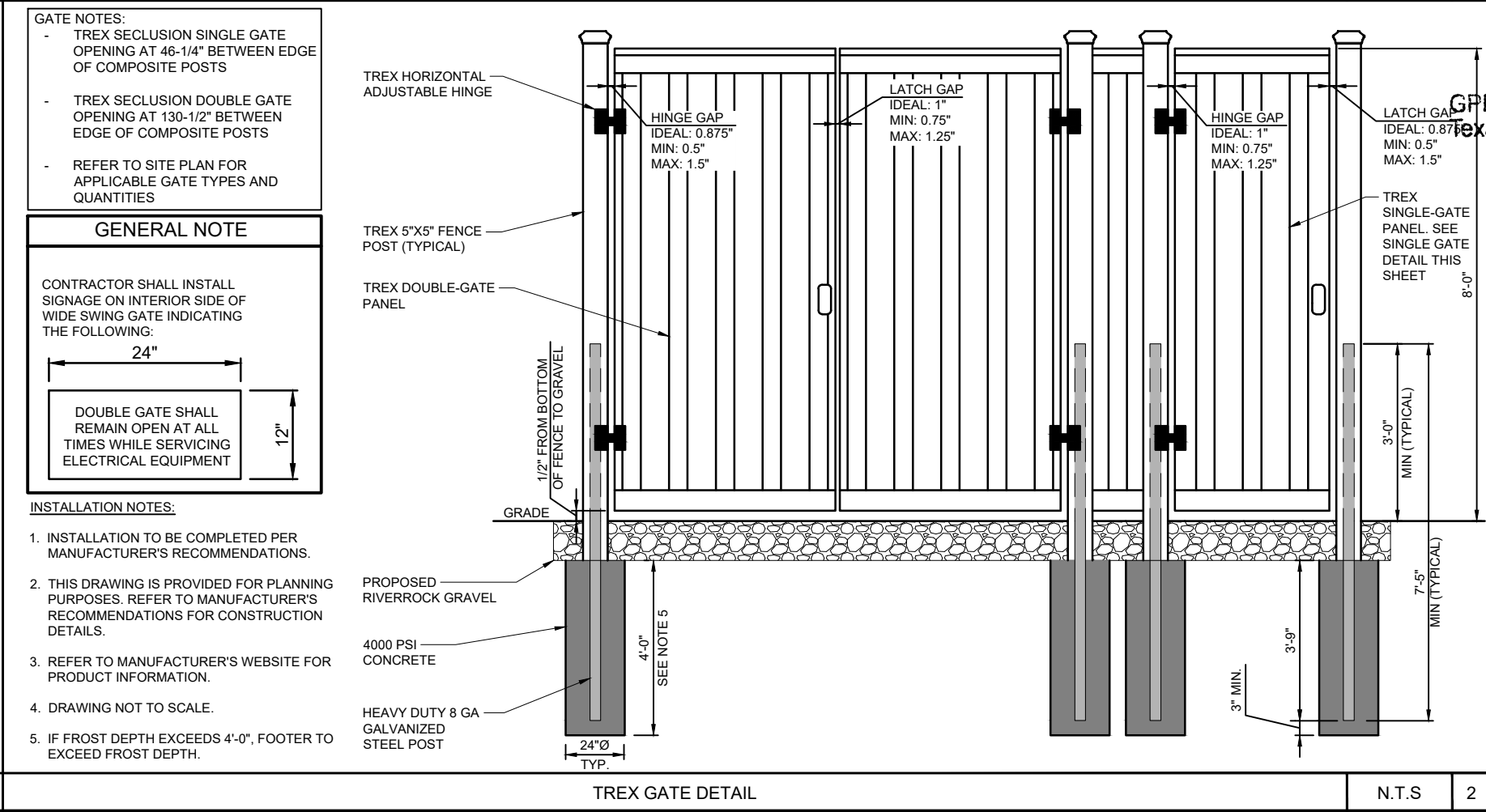
SINGLE GATE KEYPAD DETAIL W/ PANIC HARDWARE



RUBBER WHEELSTOP



TREX FENCE DETAIL



TREX GATE DETAIL

TESLA

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GPD Group, Professional Corporation
Texas Registration No. 16477

STATE OF TEXAS

LEONARDO A. SFERRA

128294

PROFESSIONAL ENGINEER

IT IS MY DUTY TO CERTIFY FOR ANY PERSON, UNLESS WE ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO THE ACCURACY OF THIS DOCUMENT.

1/17/2020

1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
C-8



3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-6000

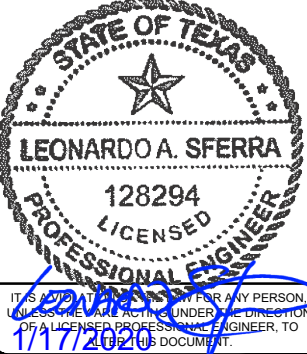


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SHEET TITLE

CIVIL DETAILS

SHEET NUMBER

C-9

DETAIL NOT USED

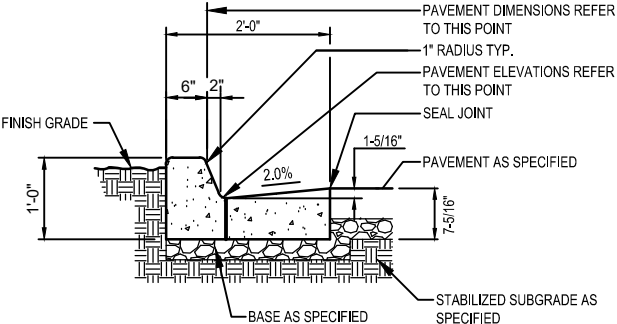
N.T.S

3

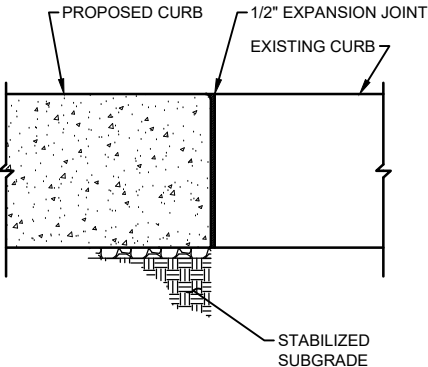
DETAIL NOT USED

N.T.S

1



NOTE:
CONTRACTOR SHALL PROVIDE A TRANSITION FROM THE PROPOSED INVERT CURB AND GUTTER TO THE EXISTING CURB AND GUTTER AT THE BEGIN AND END OF THE PROPOSED CURB WORK.



CURB TO CURB JOINT DETAIL

NOTE:
CONTRACTOR TO ASSESS EXISTING CURBS AND INSTALL PROPOSED CURBS TO MATCH. ABOVE DETAILS TO BE USED AS MINIMUM STANDARDS.

DETAIL NOT USED

N.T.S

6

DETAIL NOT USED

N.T.S

4

P.C.C. CURB & GUTTER DETAIL

N.T.S

2

GENERAL ELECTRICAL SPECIFICATIONS

1. THE FOLLOWING ARE ABBREVIATED SPECIFICATIONS. ALL ITEMS NECESSARY FOR A COMPLETE AND OPERABLE JOB (TO THE SATISFACTION OF OWNER) WHETHER SHOWN OR IMPLIED SHALL BE HELD AS THE RESPONSIBILITY OF THE CONTRACTOR
2. IMPORTANT NOTE: "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS SUBCONTRACTORS UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS THAT ARE TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
4. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL NOTE SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
6. CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: THE CONTRACT, SPECIFICATIONS, AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND TO PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF OWNER.
7. CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION AT ALL TIMES WHILE THE WORK IS BEING PERFORMED AND SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
8. INSTALLATION OF ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUITS, ETC. MUST BE COORDINATED WITH ALL OTHER TRADES. COORDINATE SHUTDOWN TIMES AND WORKING HOURS WITH BUILDING OWNER, INCLUDING OFF HOURS, WEEKEND, AND HOLIDAY WORK AS REQUIRED.
9. ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE AWARD OF THE CONTRACT AND AN ADDENDUM WILL BE ISSUED TO COVER SAME.
10. GUARANTEE - CONTRACTOR SHALL FURNISH OWNER WITH A WRITTEN GUARANTEE TO PROMPTLY REMEDY ALL DEFECTS OF WORK OR MATERIALS WITHOUT CHARGE FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE AND INSPECTION.
11. MATERIALS - ALL MATERIALS AND EQUIPMENT SHALL BE NEW, IN ORIGINAL CONTAINERS/WRAPPINGS, SHALL BE SPECIFICATION GRADE, AND LABELED OR LISTED BY U.L. OR AN ACCREDITED TESTING ORGANIZATION AS REQUIRED BY LOCAL INSPECTORS.
12. CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
13. ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
14. 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 OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.

LICENSES, CERTIFICATIONS OF INSPECTION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK.
2. CONTRACTOR AND ALL OF HIS SUBCONTRACTORS THAT PERFORM ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED BY ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO TAKE PLACE. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AS REQUIRED, ALL COSTS SHALL BE BORNE BY CONTRACTOR.
3. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS INCIDENTAL TO WORK UNDER THIS CONTRACT. WHEN THE WORK IS COMPLETED, THE REQUIRED CERTIFICATES OF APPROVAL SHALL BE FURNISHED TO THE BUILDING OWNER. CONTRACTOR MUST BE LICENSED IN THE STATE, COUNTY AND CITY OF THE PROJECT SITE.

CODES AND ORDINANCES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST EDITION OF NEC AND ALL APPLICABLE CODES AND ORDINANCES, INCLUDING SUCH AS PERTAIN TO THE SAFETY AND HEALTH RELATIONS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS ONLY IN CASE OF CONFLICT 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 ACT
- E. SBC - STANDARD BUILDING CODE
- F. NFPA - NATIONAL FIRE CODES

CHARGING CABINET NOTE

1. PER NEC 625.22 - THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL EQUIPMENT (CHARGING 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.

POST CONSTRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

1. AS-BUILT REQUIREMENTS: DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. TO PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS, STORE IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE OWNER'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK DRAWINGS THAT ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CONSTRUCTION MANAGER FOR THE OWNER'S RECORDS. CONTRACTOR SHALL SUBMIT AS-BUILT SET OF PLANS TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION.

EXISTING CONDITIONS AND DEMOLITION

1. ALL ELECTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE SALVAGED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED OFF THE PREMISES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.
3. EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST WITH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE OWNER IN ORDER TO RESOLVE ANY CONFLICTS. EXISTING ELECTRICAL CONDUIT, WIRING, ETC. DAMAGED DURING RENOVATION SHALL BE REPLACED IN LIKE KIND AND CHARACTER, AND AT THE EXISTING UTILITY LINES, DRAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND AND CHARACTER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING CONDUITS, CONTROL WIRING, ETC., WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
5. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
6. SITE VISIT - CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. QUANTITIES OF MATERIALS SHALL BE PER CONTRACTOR'S MEASUREMENTS.

BASIC ELECTRICAL MATERIALS AND METHODS

1. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL OR CUT CHASES IN WALLS AND FLOORS AS REQUIRED. ALL NEW OPENINGS SHALL BE COORDINATED WITH THE ENGINEER. ALL PENETRATIONS OF THE BUILDING WALLS, CEILING AND FLOORS, THE CONTRACTOR SHALL SEAL WITH QUALITY CAULK, FIRE RATED AND WATERTIGHT, SUBMITTED FOR APPROVAL BY THE OWNER.
2. TRASH REMOVAL: CONTRACTOR SHALL REMOVE ALL TRASH CREATED BY HIMSELF OR HIS SUBCONTRACTORS DUE TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL ALSO REMOVE TRASH CREATED BY OTHER SUBCONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. PROMPTLY CLEAN-UP ALL SOILING, DEBRIS AND OTHER UNSIGHTLY OR HAZARDOUS CONDITIONS, CAUSED BY WORK OR DELIVERIES UNDER THIS CONTRACT, FROM THE BUILDING GROUNDS, ENTRIES, CORRIDORS, STAIRWAYS, ELEVATORS OR OTHER PUBLIC AREAS. ALL SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL FACILITY.
3. SIGNAGE: CONTRACTOR SHALL MAINTAIN SECURITY AROUND PERIMETER OF CONSTRUCTION SITE DURING ALL HOURS BY INSTALLING A TEMPORARY RIBBON FOR INTERIOR WORK TO IDENTIFY CONSTRUCTION AREAS AS REQUIRED. SIGNAGE SHALL BE POSTED WITH NOTIFICATIONS OF "NO TRESPASSING" AND "CONSTRUCTION AREA".
4. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING, SUBSEQUENT PATCHING, AND REQUIRED FLASHING FOR ALL ITEMS NECESSARY FOR ELECTRICAL PART OF THE CONTRACT. PATCH, PAINT, AND REPAIR ANY AREA DAMAGED TO THE SATISFACTION OF THE BUILDING OWNER.
6. THE EXACT LOCATIONS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND CONDUIT, AS SHOWN ON THE DRAWING, IS APPROXIMATE. WHEN NOT SHOWN IN DETAIL, THE EXACT LOCATION OR ROUTING SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.
7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR THE MOUNTING AND SUPPORT OF ALL ITEMS REQUIRING THE SAME AS REQUIRED BY N.E.C.
8. TRENCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION.
9. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
10. ALL BOLTS SHALL BE STAINLESS STEEL.
11. FOR UNDERGROUND RACEWAYS, PROVIDE ADDITIONAL SLACK IN CONDUCTORS AND CONDUIT EXPANSION JOINTS IN ORDER TO ALLOW FOR EARTH MOVEMENT FROM SETTLEMENT, FROST, ETC. IN ORDER TO PREVENT DAMAGE TO THE CONDUCTORS OR TO THE EQUIPMENT CONNECTED TO THE RACEWAYS PER THE NEC.

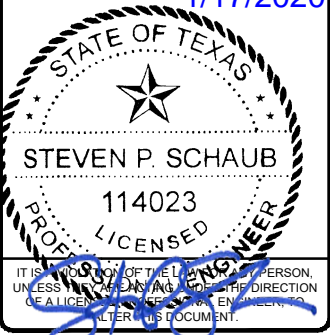


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INSTALLATION MANAGER:	RUSSEL SHEPPARD

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GPD Group, Professional Corporation
Texas Registration No. 16477

1/17/2020



1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE

ELECTRICAL
GENERAL NOTES

SHEET NUMBER

EN-1

ELECTRICAL EQUIPMENT

1. ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.

FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

1. CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.
2. PROVIDE SHOP DRAWINGS OF EACH CONDITION REQUIRING PENETRATION SEALS AND THE PROPOSED UL SYSTEMS MATERIALS, ANCHORAGE, METHODS OF INSTALLATION, AND ACTUAL ADJACENT CONSTRUCTION. SUBMITTAL PACKAGE SHALL ALSO INCLUDE A COPY OF THE UL ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.
3. FIRESTOPPING MATERIALS SHALL BE INTUMESCENT SAFETY BARRIERS DESIGNED TO BLOCK THE SPREAD OF FIRE AND SMOKE THROUGH PENETRATIONS CREATED BY ELECTRICAL INSTALLATIONS IN FIRE RATED WALLS AND FLOORS. MATERIALS SHALL BE FLAME, TOXIC FUME, AND WATER RESISTANT AND SHALL HAVE A MINIMUM 3 HOUR FIRE RATING. FIRE RATING SHALL BE DEFINED BY TESTS CONDUCTED BY ASTM, UL OR OTHER TESTING AND INSPECTION AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
4. PROVIDE MATERIALS BY THE FOLLOWING MANUFACTURERS TO SUIT THE APPLICATION: SPECIFIED TECHNOLOGIES, INC (STI), SOMERVILLE, NJ; TREMCO, INC., BEACHWOOD, OH; OR 3M INC., MINNEAPOLIS, MN

FAULT CURRENT, COORDINATION STUDY, AND ARC FLASH

1. CONTRACTOR SHALL CONDUCT A FAULT CURRENT CALCULATION ON ALL EQUIPMENT AND MARK AS REQUIRED PER THE N.E.C.
2. CONTRACTOR SHALL PROVIDE AN ARC-FLASH STUDY AND LABEL ALL EQUIPMENT AS REQUIRED PER THE N.E.C.

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1. ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ANY LOCAL CODES.
2. ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.
3. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.
5. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.

ELECTRICAL IDENTIFICATION

1. PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.
2. PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.
3. COLOR CODING OF CONDUCTORS SHALL BE PER OWNERS REQUIREMENTS.
4. 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"

CONDUCTORS AND CABLES

1. WIRING - ALL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG FOR POWER, #14 AWG FOR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER, 600V, COLOR CODED, UNLESS NOTED ALUMINUM (AL). REFER TO "ALUMINUM CONDUCTOR REQUIREMENTS" THIS SHEET. PROVIDE 75°C RATED CONDUCTORS FOR AMPACITIES ABOVE 100A AND 60°C RATED CONDUCTORS FOR AMPACITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER. UNLESS NOTED OTHERWISE ON DRAWINGS.
2. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY N.E.C. (NOT TO EXCEED 3%).
3. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.
4. CONNECTORS FOR POWER CONDUCTORS: 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.
5. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
6. CABLES - MC CABLE IS NOT PERMITTED.
7. PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.
8. PROVIDE CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; GENERAL SIGNAL, O-Z/GEDNEY UNIT; SQUARE D COMPANY, ANDERSON; ILSCO; OR BURNDY.

ALUMINUM CONDUCTOR REQUIREMENTS

1. ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR THE NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.
2. THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.
3. ALUMINUM CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. CONTRACTOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF WORK FOR RATED ALUMINUM CONNECTORS.
4. THE CONTRACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS REQUIRED BY THE NEIS (NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION). THE CONTRACTOR SHALL ABIDE BY ALL STANDARDS IN THE NECA / AA - 2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:
- A. TERMINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP ONLY WITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER.
- B. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
- C. TERMINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
- D. NECA / AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS TO COPPER BUS BARS. ABIDE BY ALL NECA / AA RECOMMENDATIONS.
- E. DO NOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE ALL / ANY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF USED, FOLLOW U.L. GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS REQUIRED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED.

RACEWAY AND BOXES

1. RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE R.G.S., SCHEDULE 80 AND COVERED 6" BELOW FINISHED GRADE TO BE PVC, SCHEDULE 40. PROVIDE WEATHERPROOF FLEX CONNECTIONS WHERE REQUIRED. CONTRACTOR SHALL PROVIDE JUNCTION AND/OR PULL BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SIZED PER N.E.C. PROVIDE NON-METALLIC ENCLOSURE WITH OPEN BOTTOM AND GASKETED COVER MANUFACTURED BY QUAZITE OR EQUIVALENT WITH DRIVE-OVER COVER ABLE TO WITHSTAND OCCASIONAL NON-DELIBERATE LIGHT VEHICULAR TRAFFIC. LABEL COVER TO SUIT INSTALLATION (I.E. "POWER" "COMMUNICATIONS", "LIGHTING", ETC.) AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- A. ABOVE GRADE: R.G.S.
- B. BELOW GRADE: SCHEDULE 40 PVC (UNLESS NOTED OTHERWISE)
2. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
3. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. CONTRACTOR SHALL PROVIDE MANUFACTURED LONG RADIUS BENDS FOR ALL CONDUITS. RGS 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'.
4. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
5. PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED, ANACONDA METAL HOSE; ANIXTER BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.
6. PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; CONDEX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED, RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
7. PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; EMERSON ELECTRIC COMPANY, APPLETON ELECTRIC COMPANY; HUBBELL INCORPORATED, KILLARK ELECTRIC MANUFACTURING COMPANY; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
8. PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.
9. PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY, FEDERAL-HOFFMAN INCORPORATED; HUBBELL INCORPORATED, RACO INCORPORATED; THOMAS & BETTS, CARLON ELECTRICAL PRODUCTS; O-Z/GEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED, ELECTRICAL DIVISION; OR SCOTT FETZER COMPANY, ADALET-PLM.

SAFETY SWITCHES

1. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS AND/OR RISER DIAGRAM. PROVIDE NEMA ENCLOSURE AS REQUIRED BY EXPOSURE TYPE. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

FUSES

1. FUSES SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE N.E.C.
2. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.



3500 DEER CREEK RD
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GPD GROUP
Professional Corporation


520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	RUSSEL SHEPPARD

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IT IS THE DUTY OF THE ENGINEER, UNLESS HE IS ACTUALLY IN THE DIRECTION OF A LICENSEE, TO SEE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE RULES OF THE BOARD OF ENGINEERING.

1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE
ELECTRICAL
GENERAL NOTES

SHEET NUMBER
EN-2



OVERALL UTILITY PLAN

GENERAL SHEET NOTES

- 1. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
- 2. ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN DETAILS ON SHEET E-5, AS WELL AS MAINTAIN A MINIMUM OF 18" CLEAR OF ALL EXISTING OBSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) STORM PIPES, SANITARY PIPES, WATER LINES AND OTHER UNDERGROUND UTILITIES.
- 3. FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.
- 4. " # " DENOTES FEEDER REFERENCE. REFER TO SHEET E-3 FOR FEEDER/CIRCUIT SCHEDULE.

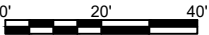
ELECTRICAL SCOPE OF WORK RESPONSIBILITIES

SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE & INSTALL PRIMARY SIDE OVERHEAD CONDUCTORS	X	
PROVIDE PRIMARY SIDE TRENCHING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	X	
PROVIDE & INSTALL UTILITY POLE (RISER BY CONTRACTOR)	X	
PROVIDE & INSTALL UTILITY TRANSFORMER PAD		X
PROVIDE UTILITY TRANSFORMER	X	
INSTALL UTILITY TRANSFORMER	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (PRIMARY)	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY)	X	
PROVIDE METER	X	
INSTALL METER	X	
PROVIDE CTs	X	
INSTALL CTs (INSIDE TRANSFORMER)	X	
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS		X
PROVIDE ROAD CUTS / ROAD BORES		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY GEORGETOWN UTILITY SYSTEMS. FIELD VERIFY PRIOR TO CONSTRUCTION.

POWER COMPANY CONTACTS

GEORGETOWN UTILITY SYSTEMS
ATTN: MIKE BEZNER
(512) 930-6102
MIKE.BEZNER@GEORGETOWN.ORG



SCALE: 1"=40'



3500 DEER CREEK RD
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SHEET TITLE
OVERALL
UTILITY PLAN

SHEET NUMBER
E-1

DC CHARGING POST LENGTHS (FEET)			
CABINET	POST	LF	***EST***
1	1A	182	204
	1B	173	195
	1C	157	179
	1D	148	170
2	2A	132	154
	2B	123	145
	2C	113	135
	2D	104	126
3	3A	90	112
	3B	80	102
	3C	71	93
	3D	62	84
4	4A	48	70
	4B	39	61
	4C	30	52
	4D	31	53
EST. CONDUIT LENGTH=			1935

AC CHARGING CABINET LENGTHS (FEET)			
SWITCHGEAR	CABINET	LF	**EST**
CIRCUIT 1	1	13	29
CIRCUIT 2	2	8	24
CIRCUIT 3	3	12	28
CIRCUIT 4	4	16	32
TOTAL LENGTH OF AC WIRE=			1356
TOTAL LENGTH OF GND Cu WIRE=			339

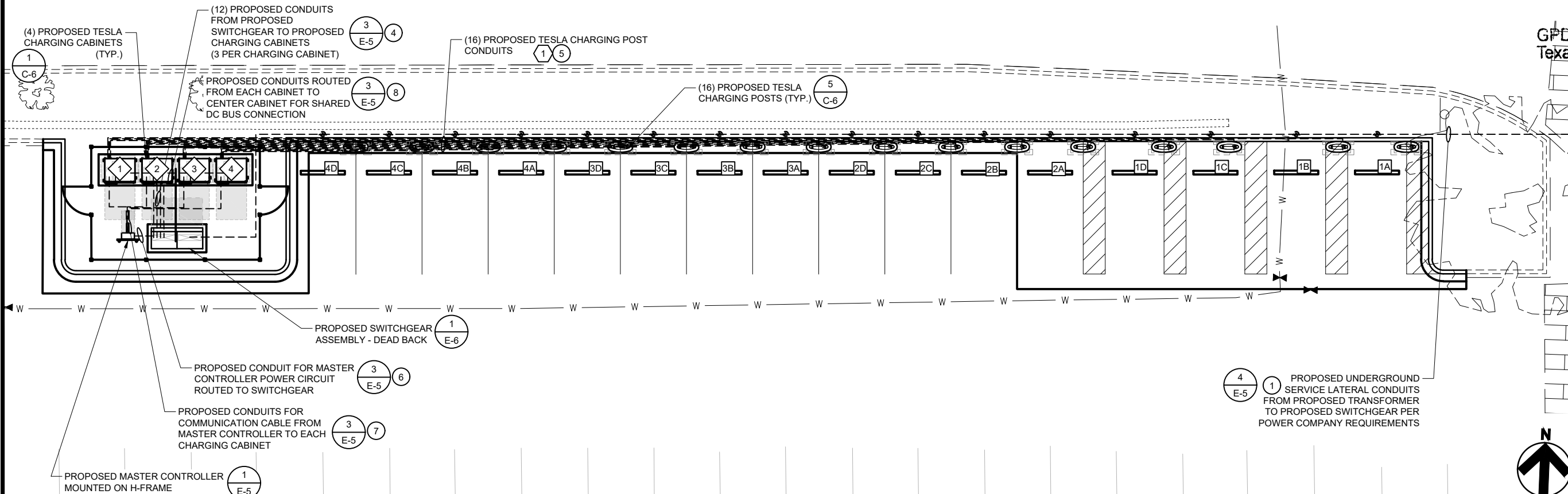
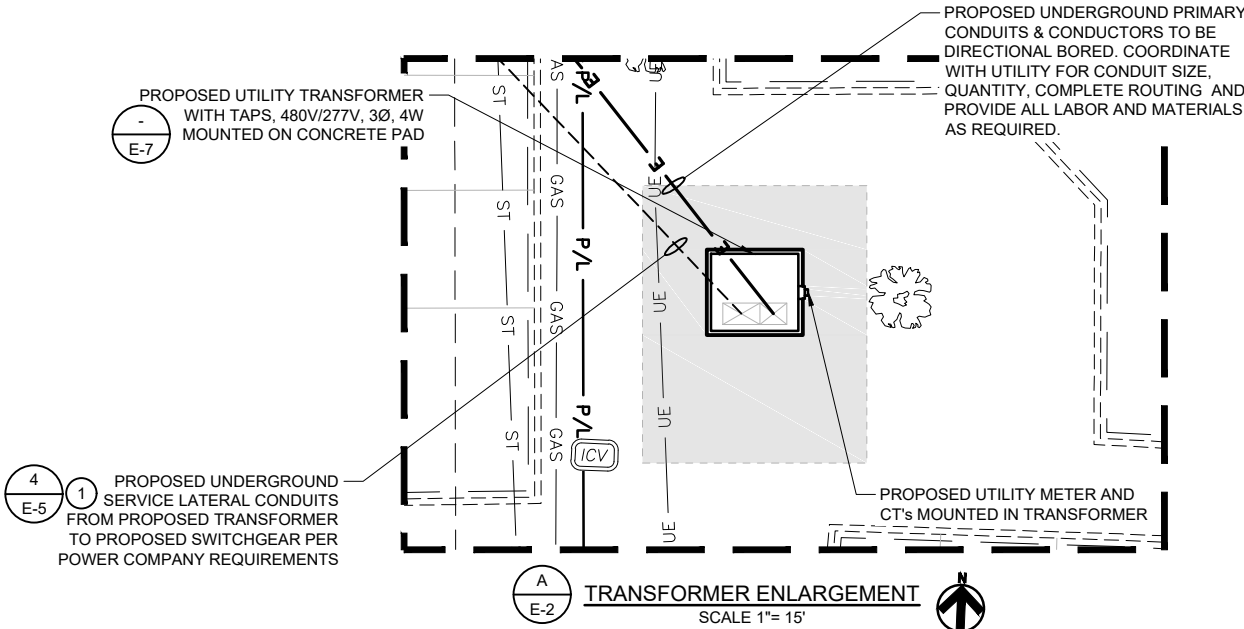
SEE SHEET E-3 FOR FEEDER SCHEDULE
TOTAL LENGTH OF AC WIRE =
SUM OF EST LENGTH x
12 WIRES PER CABINET
TOTAL LENGTH OF GND Cu =
SUM OF EST LENGTHS x (3) SETS

ELECTRICAL KEYNOTES (#)		
1. UNDERGROUND CONDUITS SHALL BE ROUTED UP THROUGH CONCRETE SLAB.		
UTILITY SERVICE LATERAL LENGTHS (FEET)		
UTILITY TRANSFORMER TO SWITCHGEAR	LF	*EST*
	310	332
TOTAL LENGTH OF WIRE PER CONDUIT=		1328
NUMBER OF WIRE FILLED CONDUIT=		8
TOTAL LENGTH OF WIRE=		10624

* AC UTILITY SERVICE CONDUCTORS:
22 FEET IS ADDED TO THE HORIZONTAL RUN
LENGTH TO ACCOUNT FOR BURIED DEPTH.
** AC CONDUCTORS:
16 FEET IS ADDED TO THE HORIZONTAL RUN
LENGTH TO ACCOUNT FOR VERTICAL RUN.
*** DC CONDUCTORS:
22 FEET IS ADDED TO THE HORIZONTAL RUN
LENGTH TO ACCOUNT FOR VERTICAL RUN.

GENERAL SHEET NOTES

- CONDUCTOR LENGTHS ARE ESTIMATES ONLY. LENGTHS ARE BASED ON DIAGRAMMATICAL MEASUREMENTS AND APPROXIMATED BURIED DEPTHS. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY CONTRACTOR IN FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR SHALL ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
- " (#)" DENOTES FEEDER REFERENCE. REFER TO SHEET E-3 FOR FEEDER/CIRCUIT SCHEDULE.
- CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
- CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
- CONDUIT ELBOWS SHALL BE SIZED PER NEC. CONTRACTOR SHALL VERIFY MANUFACTURER ALLOWABLE FILL. SEE FEEDER SCHEDULE FOR CONDUIT & CONDUCTOR SPECIFICATIONS.
- ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.



ELECTRICAL EQUIPMENT PLAN

0' 7.5' 15'

SCALE: 1"=15'



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



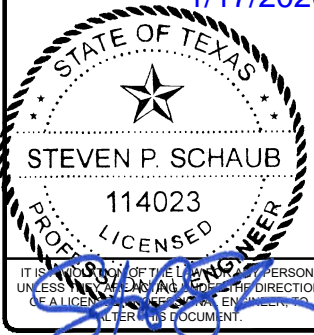
520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	RUSSEL SHEPPARD

REV	DATE	DESCRIPTION
F	01.16.20	SIGNED AND SEALED
E	12.19.19	SIGNED AND SEALED
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C	10.10.19	ISSUED FOR 100% REVIEW
B	10.04.19	ISSUED FOR 100% REVIEW
A	08.01.19	ISSUED FOR 50% REVIEW

GPD Group, Professional Corporation
Texas Registration No. 16477

1/17/2020



1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE
ELECTRICAL
EQUIPMENT PLAN

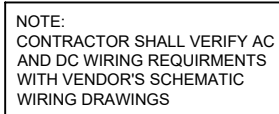
SHEET NUMBER

E-2

GENERAL SHEET NOTES	
1. NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.	LEVELS, AND SHALL DETERMINE MINIMUM PPE REQUIREMENTS FOR COMPLETING THE WARNING LABELS. PROVIDE WARNING LABELS CONTAINING ALL THE LATEST INFORMATION AS REQUIRED BY LOCAL JURISDICTION, STATE AND FEDERAL CODES AND LAWS
2. PROPOSED UTILITY CTs SHALL BE LOCATED IN UTILITY APPROVED CT COMPARTMENTS MOUNTED IN TRANSFORMER. PROPOSED METER SHALL BE MOUNTED ON TRANSFORMER.	8. ALL ALUMINUM (AI) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
3. SEE SHEET E-4 FOR PANEL SCHEDULES.	9. ALL CONDUITS ACCESSIBLE TO THE GENERAL PUBLIC OR WHICH CONDUITS CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
4. ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR. ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. SEE SHEET E-1 FOR UTILITY/CONTRACTOR SCOPE OF WORK.	10. THE CHARGING CABINETS AND THE CHARGING POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
5. ALL BUSHINGS AND INTERNAL WIRING OF PROPOSED SERVICE EQUIPMENT PROVIDED BY MANUFACTURER. ANY MODIFICATIONS SHALL REQUIRE ENGINEERING APPROVAL PRIOR TO ANY CHANGES BEING MADE.	<ul style="list-style-type: none"> • ETL (PENDING) • FCC (PENDING) • UL2202 (PENDING)
6. VERIFY AVAILABLE FAULT CURRENT AT THE SECONDARY OF THE UTILITY TRANSFORMER WITH THE POWER COMPANY. CONDUCT A FAULT CURRENT ANALYSIS TO DETERMINE THE INTERRUPTING CAPACITY (AIC RATING) OF THE ELECTRICAL EQUIPMENT.	11. THE AFOREMENTIONED STANDARDS IDENTIFY THE REQUIREMENTS MET BY THE EQUIPMENT, INCLUDING BUT NOT LIMITED TO :
7. CONTRACTOR SHALL PERFORM ARC FLASH CALCULATIONS AS REQUIRED IN THE FOLLOWING: NFPA 70; NFPA 70E; OSHA 29; AND IEEE STANDARDS 1584. CONTRACTOR SHALL OBTAIN ALL NECESSARY INFORMATION FROM POWER COMPANY TO CALCULATE FLASH PROTECTION BOUNDARIES, INCIDENT ENERGY	<ul style="list-style-type: none"> • PROTECTION AGAINST ELECTRIC SHOCK • OVERLOAD AND SHORT CIRCUIT PROTECTION • FAULT PROTECTION • DEGREES OF PROTECTION AGAINST ACCESS TO HAZARDOUS LIVE PARTS • THE INTERNAL COMPONENTS OF THE SYSTEM ARE PROPRIETARY. ANY QUESTIONS CONCERNING ACTUAL INTERNAL PROTECTIVE DEVICES MUST BE COORDINATED DIRECTLY WITH TESLA.

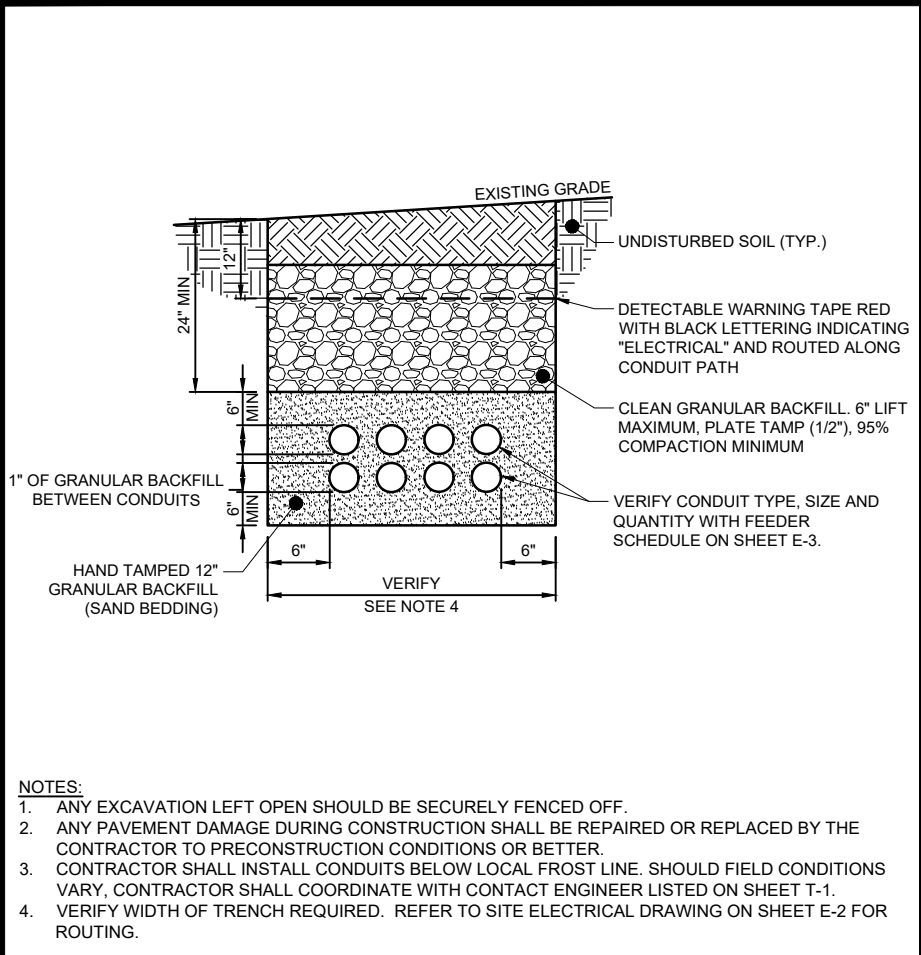
NOTE: AN ADDITIONAL SET OF LUGS IS REQUIRED FOR SQUARE-D 2500A SWITCHGEAR WHEN UTILIZING (8) SETS OF 600 MCM AI	FEEDER/CIRCUIT SCHEDULE			
	NO	FROM	TO	CONFIGURATION
	①	UTILITY TRANSFORMER/ METERING	PROPOSED SERVICE EQUIPMENT; INCOMING	(3) 600 MCM AI (XHHW-2, 90°C) (1) 600 MCM AI NEUT (XHHW-2, 90°C) IN EACH (8) 4" PVC CONDUITS
	②	PROPOSED SERVICE EQUIPMENT; INCOMING	PROPOSED SERVICE EQUIPMENT; 2500A TRIP MAIN BREAKER	FACTORY INSTALLED 2500A BUSS (BY MANUFACTURER)
	③	PROPOSED SERVICE EQUIPMENT; 2500A TRIP MAIN BREAKER	PROPOSED SERVICE EQUIPMENT; BRANCH CIRCUIT DISTRIBUTION I-LINE PANEL	FACTORY INSTALLED 2500A BUSS (BY MANUFACTURER)
	④	PROPOSED SERVICE EQUIPMENT; I-LINE PANEL	PROPOSED TESLA CHARGING CABINETS 1-4	(3) 350 MCM AI (XHHW-2, 90°C) (1) 350 MCM AI NEUT (XHHW-2, 90°C) (1) #1/0 AWG Cu GND (XHHW-2, 90°C) IN EACH (3) 3" PVC CONDUIT OR 3" NON-METALLIC FLEXIBLE CONDUIT. SEE FLEX SPEC ON SHEET E-6.
	⑤	PROPOSED TESLA CHARGING CABINETS 1-4	PROPOSED TESLA CHARGING POSTS 1-16	EQUIPMENT WIRING & CONDUIT BY TESLA. SEE V3 SUPERCHARGER DATASHEET FOR SPECIFICATIONS

AVAILABLE FAULT CURRENT (AMPS)	
1	43,745
2	36,190
3	35,166
4	8,346

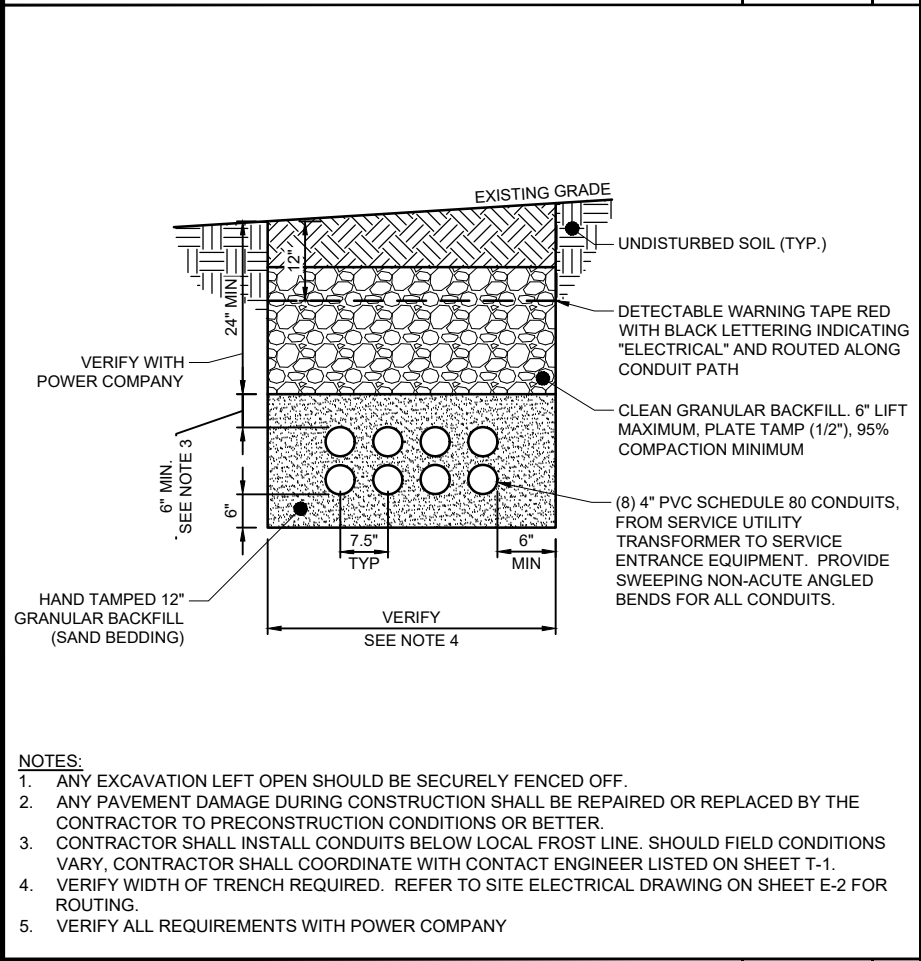


A

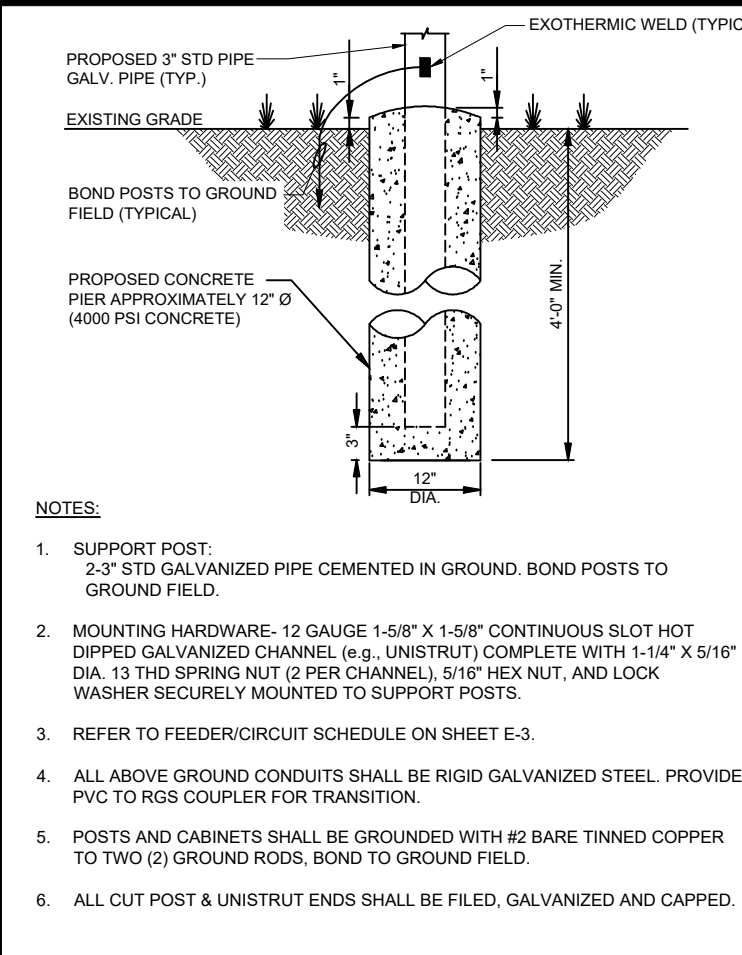




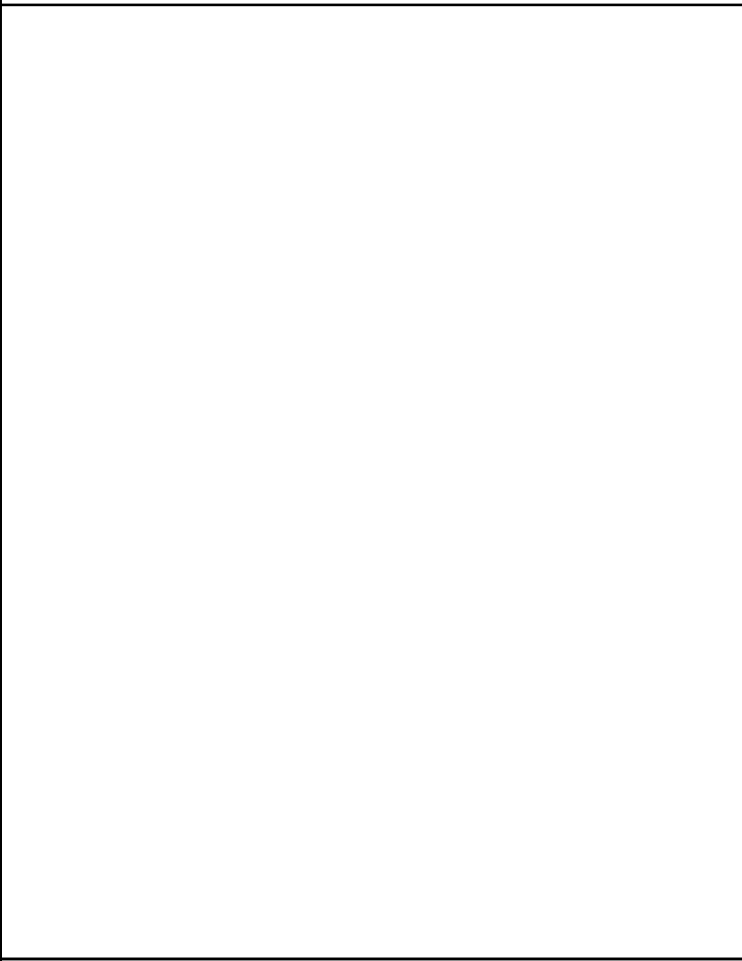
TYPICAL CONDUIT UNDER SOLID TRENCH DETAIL



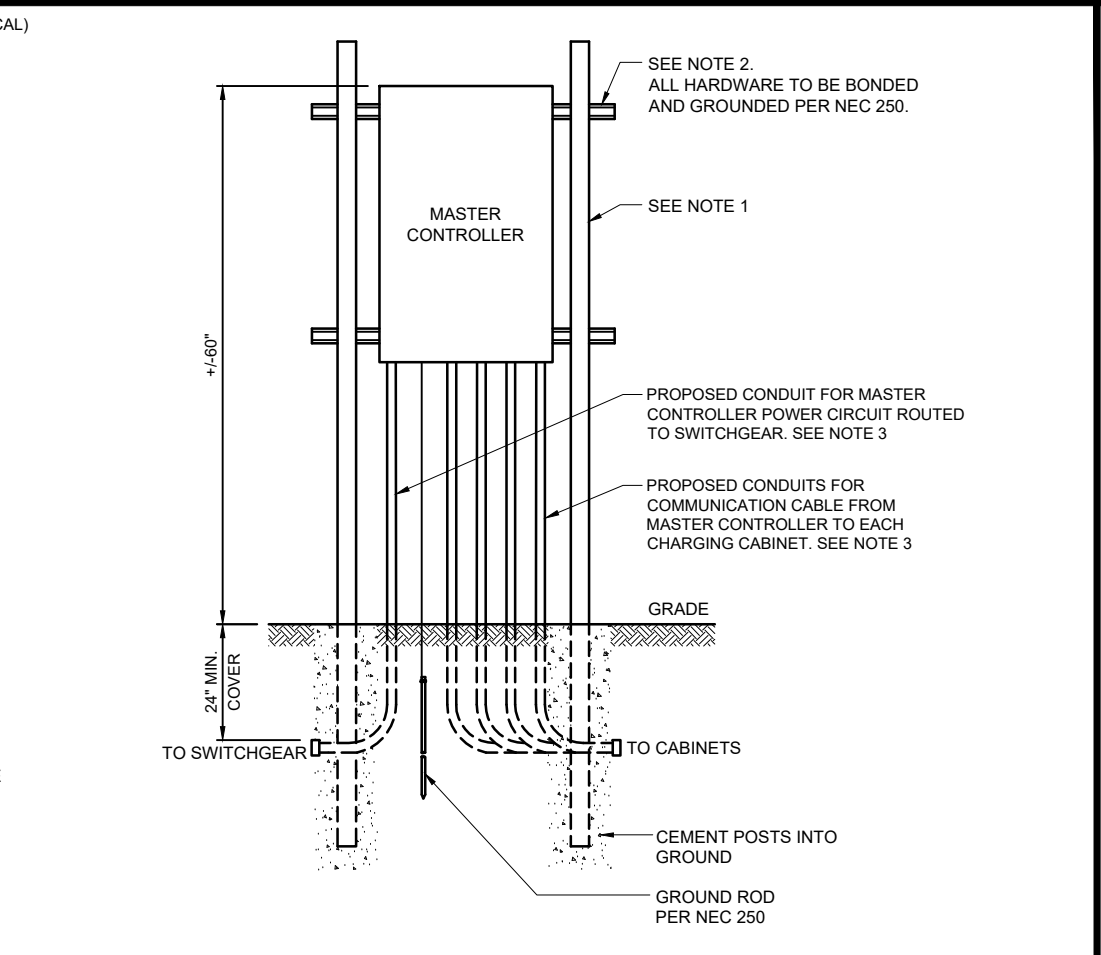
SECONDARY FEEDERS TRENCH DETAIL



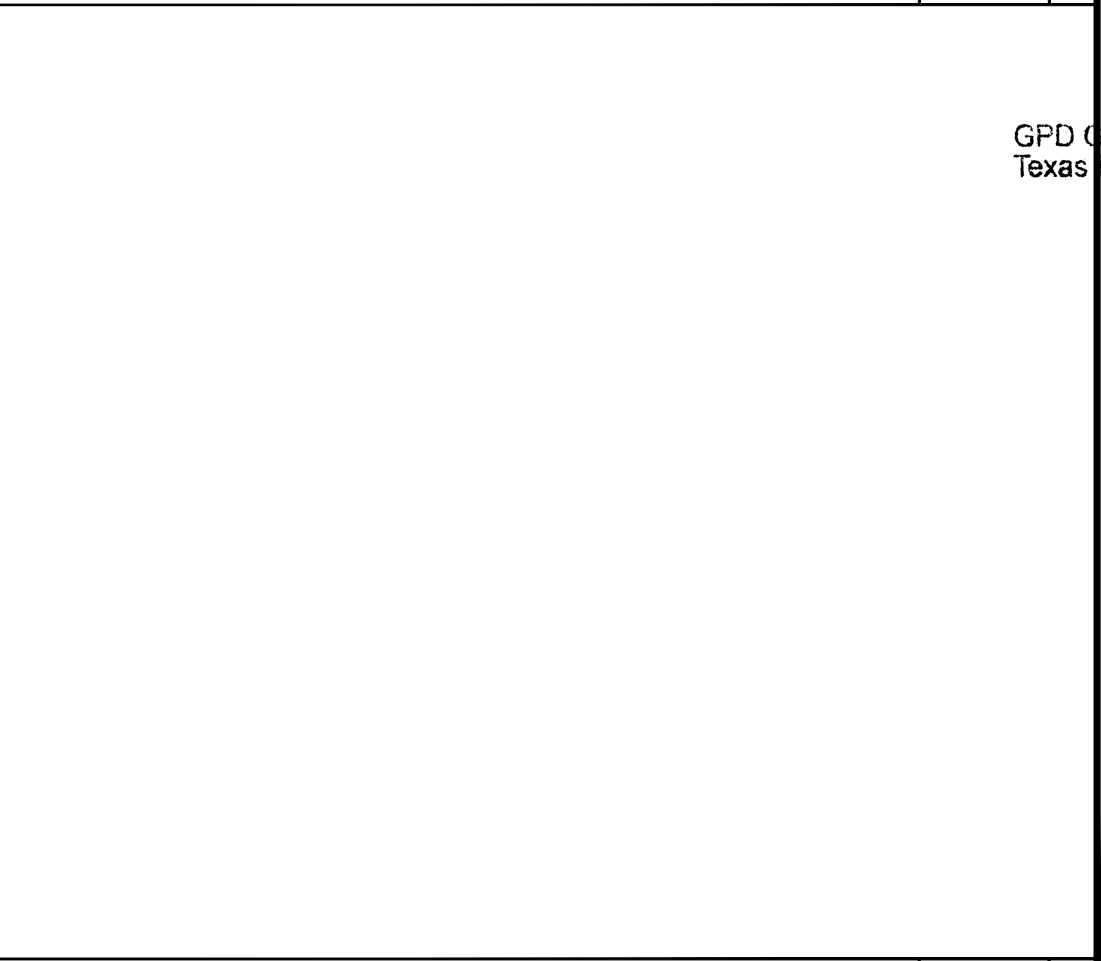
MASTER CONTROLLER H-FRAME DETAIL



DETAIL NOT USED



MASTER CONTROLLER H-FRAME DETAIL



DETAIL NOT USED



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




520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

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GPD Group, Professional Corporation
Texas Registration No. 16477
1/17/2020



1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-5

July 26, 2018

Re: Sealproof non-metallic liquid tight conduit, 90c Wet Rating

To Whom it May Concern,

Recently, Underwriters Laboratories (UL®) established requirements for non-metallic liquid tight conduit to be "listed and marked" for use at 90c wet temperatures. Superflex has obtained this listing for our trademarked Sealproof non-metallic liquid tight conduit. We have not changed any materials, constructions, or processing conditions to meet the requirements of UL for 90c wet temperatures on these products.

However, identical products made before the change in print legend was made may remain in our or our customers' inventory printed as 60c wet. Until that inventory is exhausted, products may be installed that are not marked 90c wet. Any non-metallic liquid tight conduit that is printed with Superflex's trademarked brand Sealproof and a 105c dry temperature rating, whether marked 60c wet or 90c wet, is covered under the UL listing for 90c wet temperatures.

Sincerely,

Michael Elbaz
Vice President, Operations
Superflex Ltd.

A technical cross-section diagram of a 3-inch LFNC-B conduit. The diagram shows an outer diameter (O.D.) and an inner diameter (I.D.). The wall thickness is indicated by a hatched pattern. The conduit is shown with a slight bend, and the dimensions are given in inches.

PART NUMBER	DESCRIPTION	OD	ID	BEND RADIUS
9438	3" LFNC-B	3.460 - 3.500"	3.070 - 3.150"	18 in

For Custom Orders :

- Available in Black
- Custom cut lengths available.


Consult factory for details

PRODUCT INFO:

Listed under the Underwriter's Laboratories
CSA Certified by Canadian Standards Association
3 inch trade size
Use with SEALPROOF® zinc die cast straight or right angle connectors
May also be used with metallic connectors for liquid-tight conduit
Resists corrosion, abrasion, oil, water, acid, metal shavings, and rough environments
Smooth inside for easier wire pulling, no hazardous sharp edges or burrs, will not damage conductors

COLOR: NA

Outdoor, sunlight resistant, direct burial
CSA rating - 18°C to 105°C
Light weight and lower installed cost
Quick installation, cuts with utility knife or PVC cutter
Integral rigid & flexible PVC construction
Resists abuse, pull and crushing
UL Rating: 105°C dry, 90°C wet, 70°C oil resistant

MATERIAL:	PVC	 PROPERTY OF SUPERFLEX LTD SUPERFLEX LTD BROOKLYN, NY	DESCRIPTION:	PART NO REV: 1	REV DATE 07/25/2018
CERTIFICATIONS:	UL 1660				
MARKING:	UL & CSA				
CERT#	E129973				
	LL-84705				
	UL94-V0				
			SPECIFICATION SHEET FOR SEALPROOF Liquid Tight Conduit Type B 3" size		

A technical cross-section diagram of a 4-inch Liquid Tight Flexible Non-Conductive (LFNC-B) conduit. The diagram shows the outer diameter (O.D.) and inner diameter (I.D.) with dimension lines. The conduit has a thick, multi-layered wall structure, with a dashed line indicating the internal bore.

PART NUMBER	DESCRIPTION	OD	ID	BEND RADIUS
9440	4" LFNC-B	4.460 - 4.500"	4.000 - 4.090"	24 in

For Custom Orders :

- a. Available in Black
- b. Custom cut lengths available.


Consult factory for details

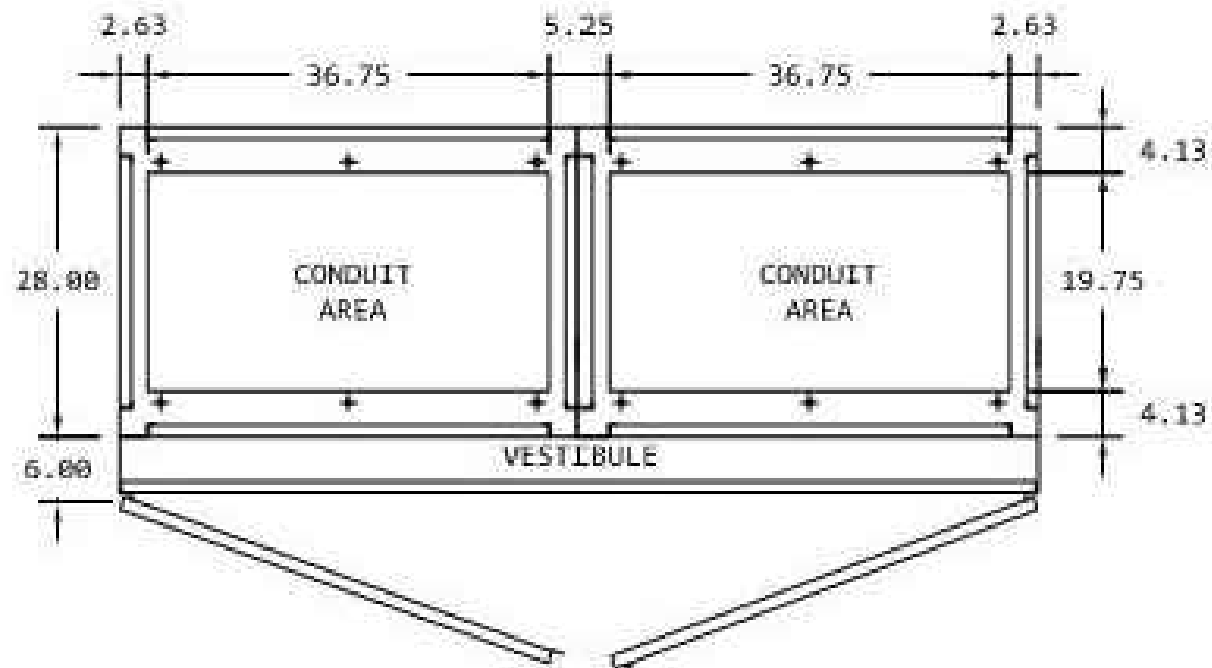
PRODUCT INFO:

Listed under the Underwriter's Laboratories
CSA Certified by Canadian Standards Association
4 inch trade size
Use with SEALPROOF® zinc die cast straight or right angle connectors
May also be used with metallic connectors for liquid-tight conduit
Resists corrosion, abrasion, oil, water, acid, metal shavings, and rough environments
Smooth inside for easier wire pulling, no hazardous sharp edges or burrs, will not damage conductors

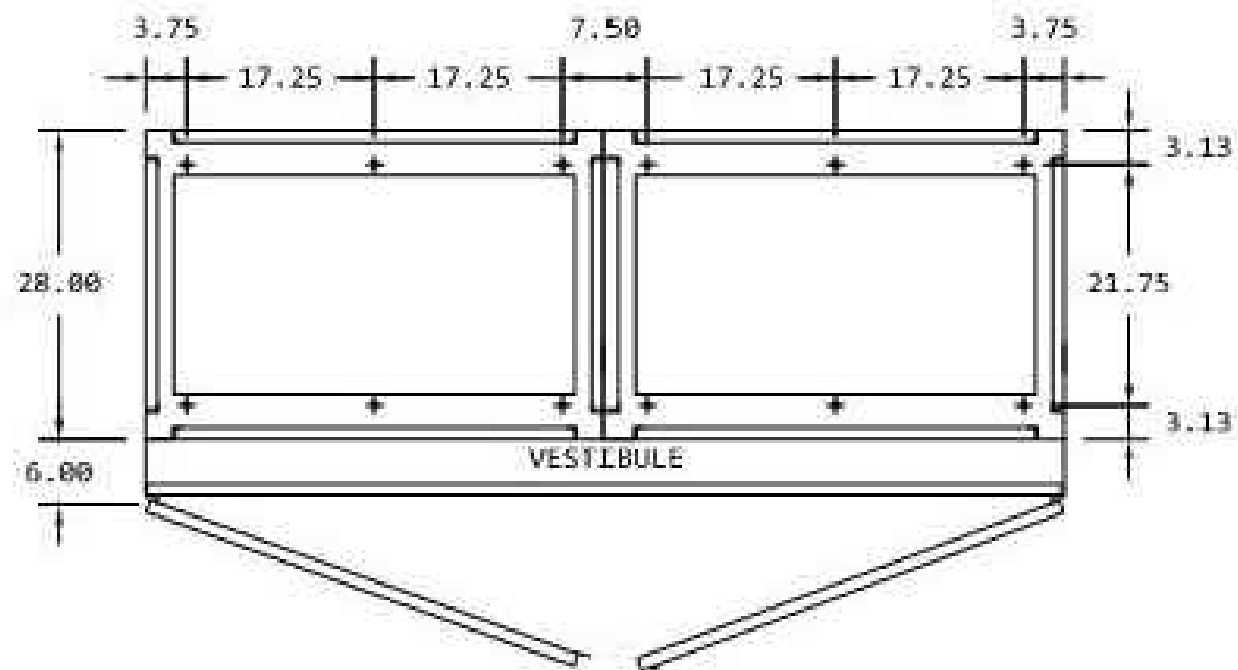
COLOR: NA

Outdoor, sunlight resistant, direct burial
CSA rating - 18°C to 105°C
Light weight and lower installed cost
Quick installation, cuts with utility knife or PVC cutter
Integral rigid & flexible PVC construction
Resists abuse, pull and crushing
UL Rating: 105°C dry, 90°C wet, 70°C oil resistant

MATERIAL:	PVC	 PROPERTY OF SUPERFLEX LTD SUPERFLEX LTD BROOKLYN, NY	DESCRIPTION:	PART NO 9440 REV: 2	REV DATE 04/11/2019
CERTIFICATIONS:	UL 1660				
MARKING:	UL & CSA				
CERT#	E129973				
	LL-84705				
	UL94-V0				
			SPECIFICATION SHEET FOR SEALPROOF Liquid Tight Conduit Type B 4" size		



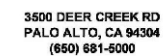
BASE PLAN, CONDUIT ENTRANCE DETAILS

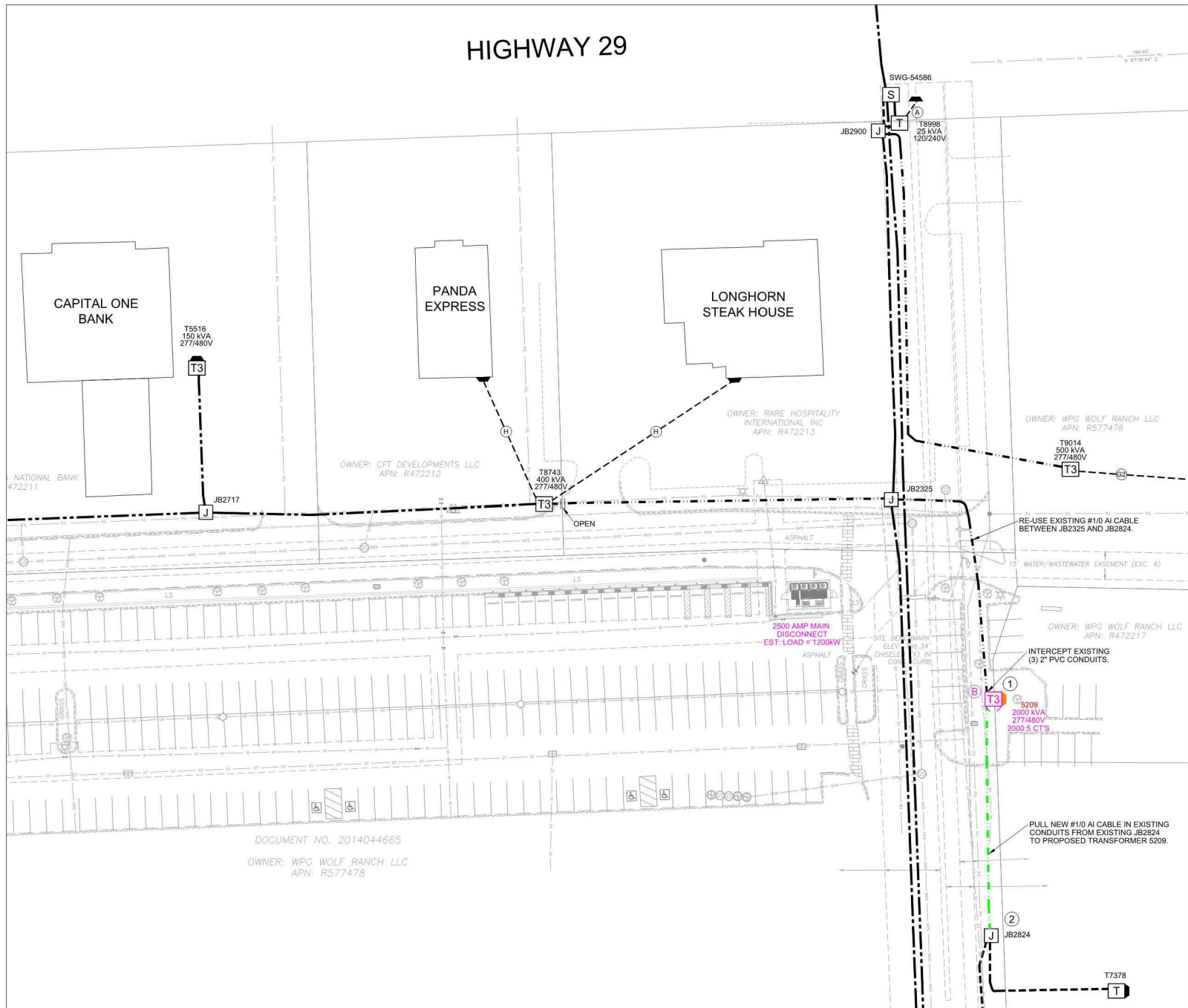
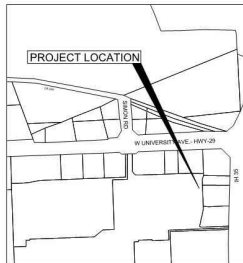
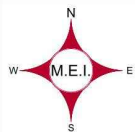


GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	RUSSEL SHEPPARD

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FOR
REFERENCE
ONLYIT IS A VIOLATION OF THE LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER, TO
ALTER THIS DOCUMENT.1015 W UNIVERSITY AVE.
(TESLA STATION)
GEORGETOWN, TX 78628SHEET TITLE
ELECTRICAL DETAILSSHEET NUMBER
E-6





- LEGEND**
- EXISTING SINGLE-PHASE #10 AI 25 KV UNDERGROUND PRIMARY IN (1) 2" PVC CONDUIT
 - EXISTING THREE-PHASE #10 AI 25 KV UNDERGROUND PRIMARY IN (3) 2" PVC CONDUITS
 - EXISTING THREE-PHASE #40 AI 25 KV UNDERGROUND PRIMARY IN (3) 2" PVC CONDUITS
 - EXISTING THREE-PHASE #500 MCM Cu 25 KV UNDERGROUND PRIMARY IN (6) 2" PVC CONDUITS
 - EXISTING #350 MCM AI 600 V QPLX UNDERGROUND SECONDARY SERVICE IN (1) 4" PVC CONDUIT WITH (1) SPARE 4" PVC CONDUIT
 - EXISTING #10 AI 600 V TLX UNDERGROUND SECONDARY SERVICE IN (1) 2" PVC CONDUIT
 - EXISTING #500 MCM AI 600 V QPLX UNDERGROUND SECONDARY SERVICE IN (1) 4" PVC CONDUIT WITH (1) SPARE 4" PVC CONDUIT
 - PROPOSED THREE-PHASE #10 AI 25 KV UNDERGROUND PRIMARY IN EXISTING (3) 2" PVC CONDUITS
 - PROPOSED THREE-PHASE PAD-MOUNT TRANSFORMER (DEVELOPER TO PROVIDE AND INSTALL CONCRETE PAD)
 - EXISTING THREE-PHASE PAD-MOUNT PRIMARY JUNCTION BOX
 - EXISTING THREE-PHASE PAD-MOUNT SWITCHGEAR
 - EXISTING THREE-PHASE PAD-MOUNT TRANSFORMER
 - EXISTING SINGLE-PHASE PAD-MOUNT TRANSFORMER
 - PROPOSED METER LOCATION (CITY TO PROVIDE AND INSTALL)
 - EXISTING METER LOCATION
 - PROPOSED BOLLARDS PER CITY SPECIFICATIONS
 - EXISTING ELECTRIC FACILITIES
 - EXISTING OR FUTURE DEVELOPMENT
 - PROPOSED ELECTRIC FACILITIES
 - RETIRED EXISTING ELECTRIC FACILITIES
 - DEVELOPER TO GRANT EASEMENT

- KEY NOTES**
- N GUDVG7-21 2000KVA (1)
N GUM1-6C-TA3 (1)
N GUM6-1 1/0 (6)
N GUM6-4 XFMR (3)
N GUM52-3" (6)
N GUM8-12A 2000:5 (1)
 - R GUM6-1 1/0 (3)
R GUM52-3" (3)
N GUM6-1 1/0 (3)
N GUM52-3" (3)

*CITY TO FIELD VERIFY PHASING AND TAG UNDERGROUND ACCORDINGLY.

REVISION #1:
REVISED TRANSFORMER LOCATION DUE TO THE PROXIMITY OF THE EXISTING UNDERGROUND GAS LINE.

- DEVELOPER CONSTRUCTION NOTES**
- Before construction starts, Contractor shall meet with the Electrical Division Representative.
 - According to City policy, the Developer is required to provide all labor, equipment, and material for trenching, and installing electrical conduit, pull boxes, man holes, secondary junction boxes, pedestals, and concrete pads for all pad-mount equipment to City specifications.
 - According to City policy, the Developer is required to provide all labor, equipment, and material for installing streetlights and their foundations, conduit, trenching, wire, fixtures, and poles to City specifications.
 - Contractor to contact GUS for conduit location on riser pole.
 - Developer shall provide GUS access to all pad-mounted equipment. This shall be at minimum an "All weather surface road".
 - Developer is only to trim or remove existing trees and vegetation within their property as required for the installation of the GUS underground and overhead power lines. All vegetation, to be cut or trimmed by the City at developer's expense.
 - Service conduit stub-outs required to be installed from all transformers and pedestals as shown on detail. Temporary service stubs also required to be installed from all transformers and pedestals as shown on detail.
 - Secondary service cable run quantities will vary depending on the transformer size. See transformer pad detail for said quantities. Developer is to provide the required 2-hole NEMA compression splice lugs for all secondary cable installed on the GUS transformer. City to terminate service conductors at transformer. A minimum separation of 2' horizontal and 2' vertical shall be maintained between all proposed electric facilities and all other proposed or existing utility facilities except for communication facilities where the minimum separation is 1' horizontal and 1' vertical.
 - 1-800-DIG-TESS - Contractor to call for the locating of existing underground utility facilities. All conduits are to include 2500lbs Mule Tape for primary and secondary runs, stub-out conduits included.
 - For all 277/480V electric services, Developer is to install a disconnect on the building for each meter. When meter is on the building, disconnect shall be located on the line side. When meter is on the transformer, the disconnect shall be on the load side.
 - For all secondary pedestal installations, Developer is responsible for all stickers required by GUS on the exterior of each pedestal.

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INITIAL REVIEW UNDER THE AUTHORITY OF:
REX N. WOODS, P.E. 87089
OCTOBER 29, 2019
IT IS NOT TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

FOR REVIEW
REVISION #1



TESLA CHARGING STATION
- VWR TC

DATE OF THE DEVELOPERS
SITE PLAN OR BASE MAP
UTILIZED FOR THIS DRAWING:
08-10-19



GUS WS#	11095
JOB CODE:	GEO-42-T.13
DRAFTER:	MRC
DATE:	08-12-19
SCALE:	1"=30'
DRAWING#	MEI-14431
SHEET #	1 OF 2
REV DATE:	10-29-19
REV:	PEP



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

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SHEET TITLE

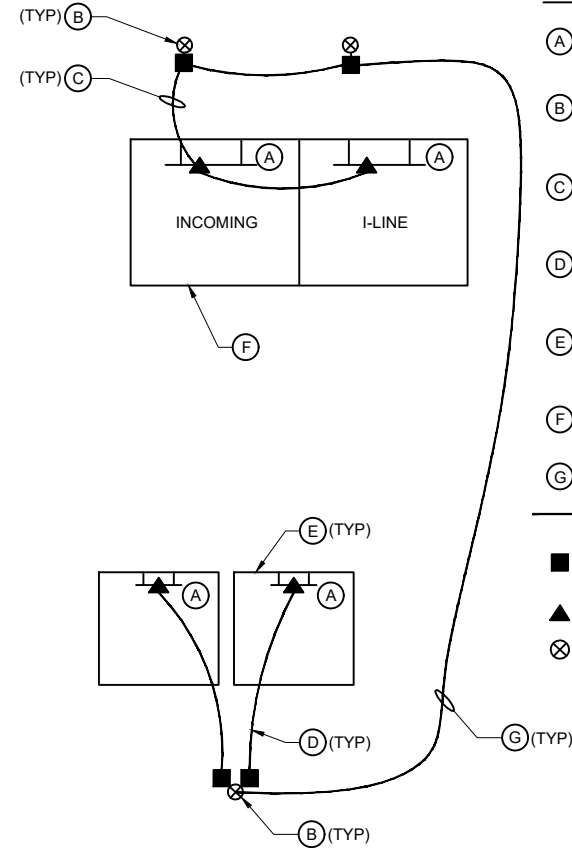
UTILITY DETAILS

SHEET NUMBER

E-8

NOTES:

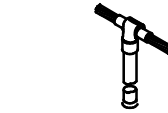
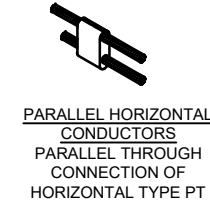
- EXOTHERMIC WELD (2) TWO, #6 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR/LUG. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- ALL GROUND BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE."
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUND BUS.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- TESLA CHARGERS HAVE INTERNAL HIGH IMPEDANCE GROUND FAULT PROTECTION (10MΩ).
- EMC - ELECTROMAGNETIC COMPATIBILITY.
- ALL GROUNDING HARDWARE SUPPLIED AND INSTALLED BY CONTRACTOR.



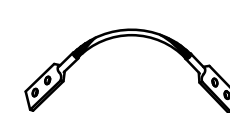
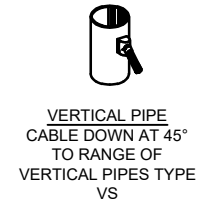
GROUNDING LEGEND

- (A) GROUND BAR/LUG WITHIN PROPOSED EQUIPMENT
- (B) PROPOSED 5/8"x8'-0" GROUND ROD, SEE DETAIL 4, THIS SHEET
- (C) PROPOSED SERVICE GROUND, SEE DETAIL 4, THIS SHEET
- (D) PROPOSED CHARGING CABINET GROUND FOR EMC, SEE DETAIL 2, THIS SHEET
- (E) PROPOSED CHARGING CABINET. SEE PLAN FOR EXACT QUANTITY
- (F) PROPOSED SWITCHGEAR. SEE PLAN FOR EXACT SIZE AND CONFIGURATION
- (G) #2 SOLID TINNED COPPER
- PROPOSED GROUND RING
- CADWELD CONNECTION (EXOTHERMIC WELD)
- MECHANICAL CONNECTION
- GROUND ROD

CADWELD CONNECTIONS
(OR APPROVED EQUAL)



BURNDY CONNECTIONS
(OR APPROVED EQUAL)



GROUNDING NOTES

N.T.S

5

TYPICAL EARTH GROUNDING PLAN

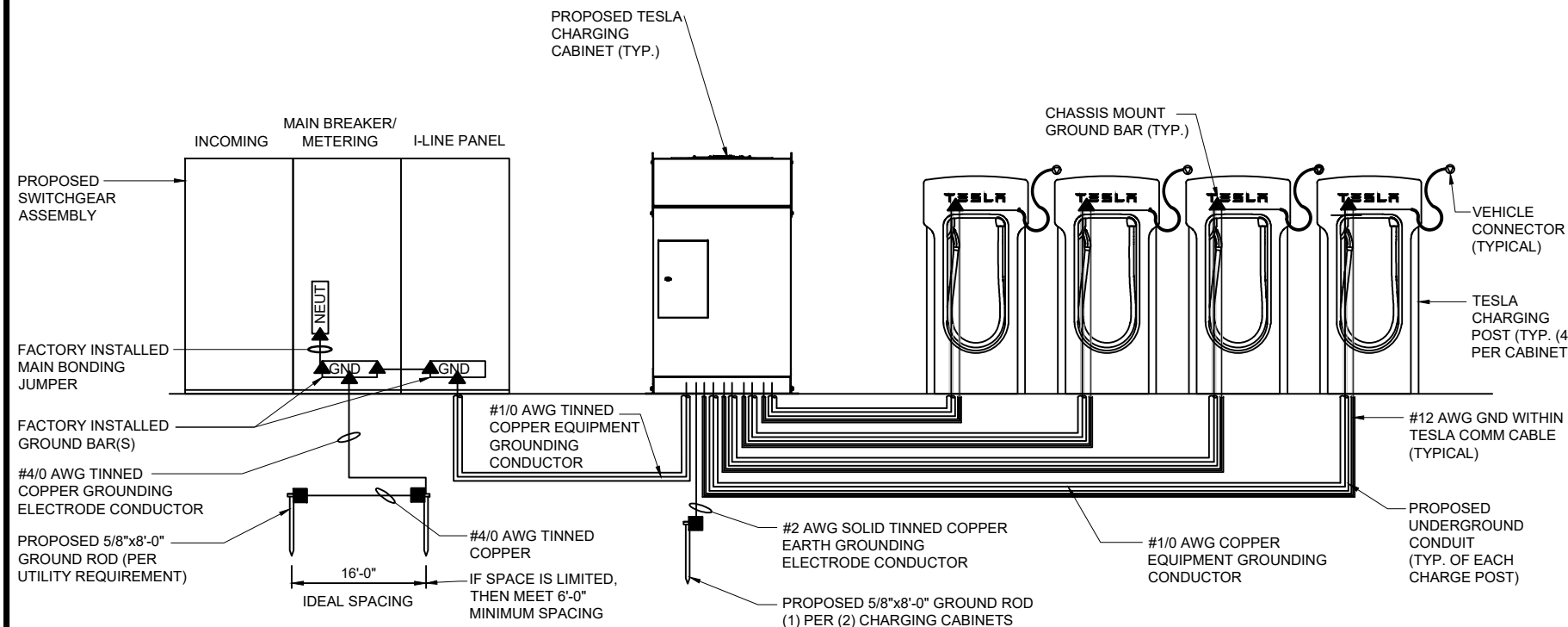
N.T.S

3

CADWELD CONNECTION DETAIL

N.T.S

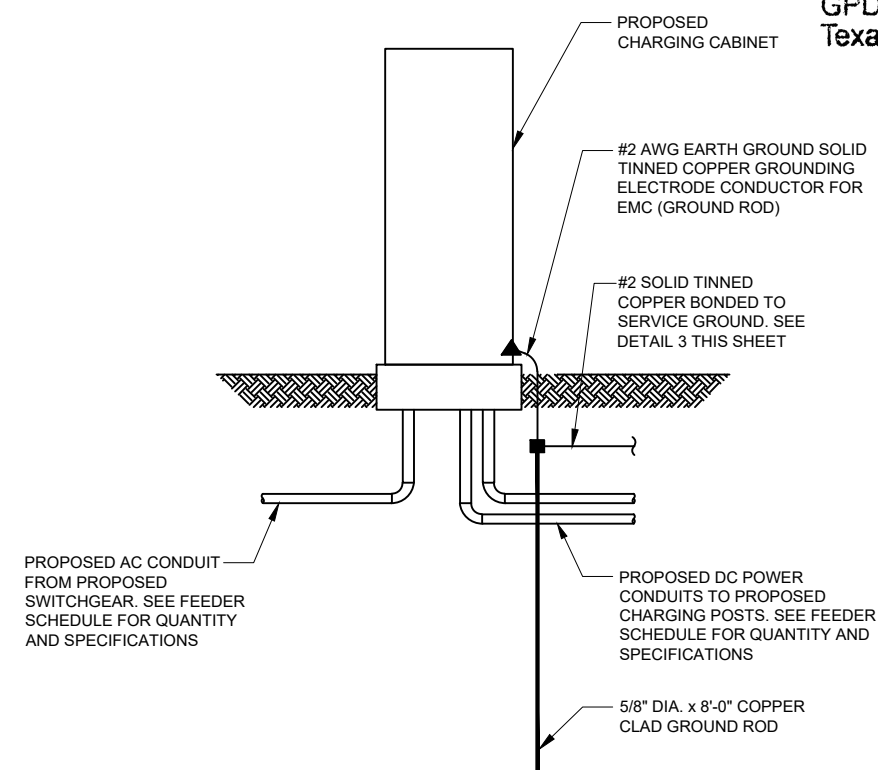
1



TYPICAL EQUIPMENT GROUNDING SCHEMATIC

N.T.S

4



CHARGING CABINET EARTH GROUNDING DETAIL

N.T.S

2

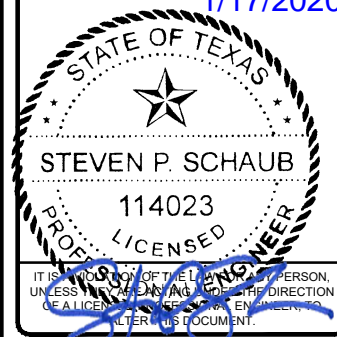


GPD PROJECT NUMBER:	2019141.80
DRAWN BY:	LMJ
CHECKED BY:	RP/EPM
INSTALLATION MANAGER:	RUSSEL SHEPPARD

REV	DATE	DESCRIPTION
F	01.16.20	SIGNED AND SEALED
E	12.19.19	SIGNED AND SEALED
D	10.28.19	ISSUED FOR 100% REVIEW
C	10.10.19	ISSUED FOR 100% REVIEW
B	10.04.19	ISSUED FOR 100% REVIEW
A	08.01.19	ISSUED FOR 50% REVIEW

GPD Group, Professional Corporation
Texas Registration No. 16477

1/17/2020



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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

