

SITE INF	ORMATION		APPLICABLE
ADDRESS: 465 MAPLE AVE. (TESLA STATION) VIENNA, VA 22180 POWER COMPANY: DOMINION ENERGY CONTACT: DUNCAN COCKERILL (703) 934-2594 PROPERTY OWNER: WAWA CONTACT: VINCENT CIPOLLONE (610) 306-5462	LATITUDE (NAD83) N 38°53'43.41" 38.8953616 LONGITUDE (NAD83) W 77°16'27.38" -77.2742721 PERMITTING JURISDICTION: FAIRFAX COUNTY BUILDING PERMITS 12055 GOVERNMENT CENTER PKWY, FAIRFAX, VA 22035 CONTACT: TBD (703) 222-0801	2015 VIRGINIA UNIF 2014 NATIONAL ELE	COMPLY WITH THE FOLLOWI FORM STATEWIDE BUILDING ECTRICAL CODE CONFLICT, THE MOST RESTR
EQUIPMENT SUPPLIER: TESLA, INC.	<u>COUNTY:</u> FAIRFAX	DESIGN CRITERIA:	
6900 DUMBARTON CIRCLE FREMONT, CA 94555 (650) 681-5000 GPD GROUP, INC. CONTACTS:	ΓΑΙΚΓΑΛ	WIND SPEED = EXPOSURE = CATEGORY = FROST DEPTH =	115 MPH 3-SECOND GUS C II 30"
<u>PROJECT MANAGER:</u> ZACHERY SHEETS, PE - OH# 77870			LOCATION
(330)572-2148 ZSHEETS@GPDGROUP.COM			
PROJECT COORDINATOR: TROY EVESLAGE, PE - IN# PE11500164 (317) 295-3179 TEVESLAGE@GPDGROUP.COM	ł		
UTILITY COORDINATOR: BRIAN GUTHRIDGE. (330) 572-2249			
BGUTHRIDGE@GPDGROUP.COM <u>PERMIT COORDINATOR:</u> SARAH HONEYCUTT	MISS_UTILITY serving delaware, maryland, northern virginia, and washington, d.c.		
(330) 572-3508 SHONEYCUTT@GPDGROUP.COM			
	THREE FULL WORKING DAYS BEFORE YOU DIG, CALL THE MISS DIG SYSTEM AT		
	1-(800)-257-7777 THE MISS UTILITY MEMBER UTILITIES WILL MARK THE APPROXIMATE LOCATION OF THEIR UNDERGROUND PUBLIC UTILITY LINES AT NO		
	CHARGE.		
	RD AREA NOTE	- Summer and summer	nTrust 🂱 👘 🖓 nTrust
OUTSIDE THE 0.2% ANNU	ZONE "X" (AREA DETERMINED TO BE AL CHANCE FLOODPLAIN) PER 059C0145E, EFFECTIVE DATE - 09/17/2010.		
BEFORE SCALING & PLAN	N REPRODUCTION WARNING		
CONDITIONS ON THE JOB SITE AND SH	ANS, EXISTING DIMENSIONS, AND FIELD HALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK OR	Vienna Animal Hospital	

	NERAL CONSTRUCTION NOTES		SAFE PROT
1.	FOR THE PURPOSE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR: TBD CONTRACTOR: TBD OWNER: TESLA	22.	ONLY ITEMS REMA OR RI
1.	THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE BASED ON EXISTING FILES PROVIDED BY WAWA. 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/HER WORK FORCE.	23.	ALL E THE DISCO DIREO UTILIT
2.	ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON EXISTING FILES PROVIDED BY WAWA. 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	24.	THE EQUIF EROS
	HAVING TO BE REDONE DUE TO INFORMATION SHALL BE FAID TO THE CONTRACTOR FOR WORK NOTIFICATION HAS NOT BEEN GIVEN.	25.	CONT CONT FEDE
3.	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	26.	NO F SNOV
	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.	27.	THE STAN
4.	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.	28.	WITH
5.	ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTION CODES, ORDINANCES AND APPLICABLE REGULATIONS.	29.	ALL E DOCU CONS
6.	UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATION ON THE DRAWINGS.	30.	
7.	PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY	31.	THE
	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	32.	THE SER\ EQUI
	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.	33. 34.	
8.	THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.		FOR CON
9.	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.	35 <i>.</i> 36.	INFO PROV
10.	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.		PRIO
11.	THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.		
12.	CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.		
13.	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.		
14.	THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.		$\bigcap$
15.	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.		$\bigcirc$
16.	THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.		Ce
17.	THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.		
18.	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.		E
19.	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.		8
20.	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.		
21.	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		U E C

Y TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL CTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.

TEMS SPECIFICALLY CALLED OUT TO BE REMOVED OR DEMOLISHED SHALL BE AFFECTED. ANY INCLUDING, BUT NOT LIMITED TO, CURBS, PAVEMENT, UTILITY ITEMS, LANDSCAPING, ETC. SHALL N AND BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR PLACE ANY AFFECTED ITEMS AT OWNERS DISCRETION.

KISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE INNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS TED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL IES.

REAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE MENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT ON.

RACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION ROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE RAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.

L OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

JBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT OARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD FOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.

ECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED THE SITE AND DISPOSED OF IN A LAWFUL MANNER.

ROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER MENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF FRUCTION AND PRIOR TO PAYMENT.

CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL RACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.

ONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.

ROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER CE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED FOR SERVICE MENT). HANDICAP ACCESS MAY BE REQUIRED FOR CHARGING POSTS. SEE PLAN.

TDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.

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

ONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.

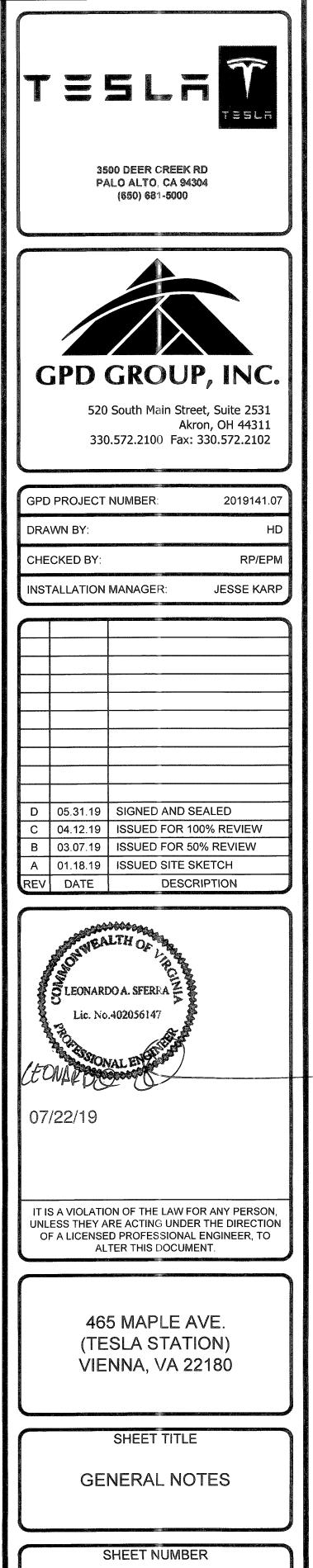
MATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS' AND/OR DRAWINGS DED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

				<b>e</b> ELECTR
	PROPOSED	TRANSF		
_				
स्ते	SIGN ON POST		CURB	
-@-	SIGN ON POST IN BOLLARD		CURB AND GUTTER	
	LIGHT POLE		TRANSVERSE STRIPING	
	METED		PROPOSED CONCRETE	1. DURING THE CONSTRUCTION
		· · · · · · · · · · · · · · · · · · ·	PROPOSED ASPHALT	HAVE TO BE TEMPORARILY OR AS A RESULT OF (
CHARGING POST	CHARGING POST		PROPOSED RIVER ROCK	RESPONSIBILITY TO COORD CLOSURES AND MUST OBTA IMPLEMENTING SUCH CLOS
		WM	WATER MAIN	WITH THE STATE MANUAL (LATEST EDITION AND REVI COUNTY REQUIREMENTS.
		—— w ——	WATER LINE	CONTROL / MOT PLAN TO CONSTRUCTION TRAFFIC M
		IR	IRRIGATION LINE	AND ULTIMATELY REMOVED
	CHARGING CABINET	GAS	GAS LINE	2. THE CONTRACTOR SHALL M AND INTERSECTING STREE
		ST	STORM LINE	ANTICIPATED. DRIVEWAYS END OF EACH WORK DAY. F
		SAN	SANITARY LINE	REQUIREMENTS, THE COI BARRICADES, SATISFACTO
ENTRANCE DISCO	CT CABINET, SERVICE ONNECTS, & MASTER	——— E ———	ELECTRIC MAIN	FLAGMEN, LAW ENFORCEM
JONTROLLER MC		UE	ELECTRIC LINE	
		L/P	LIGHT POLE CONDUIT	

·/i	PROPERTY LINE		CATCH BASIN
	RIGHT OF WAY		CURB INLET
•	CENTERLINE		
	WATER MAIN	(sf)	STORM MANHOLE
	WATER LINE	(sa)	SANITARY MANHOLE
	IRRIGATION LINE	um	UNKNOWN MANHOLE
GAS —	GAS LINE	(SA)	SANITARY VALVE
ST	STORM LINE	(sep tnk	SEPTIC TANK
SAN	SANITARY LINE	Ť	FIRE HYDRANT
ОН	OVERHEAD ELECTRIC	W	WATER METER
E	ELECTRIC MAIN	÷	
UE	ELECTRIC LINE	Ŵ	WATER VALVE
_/P	LIGHT POLE CONDUIT	$(\mathbf{I})$	SPRINKLER HEAD
	EXISTING BUILDING	(W)	WATER MANHOLE
L /	LIGHT POLE	ġ	GAS VALVE
R		g	GAS METER
$\mathcal{P}_{\overline{5}}$	POWER POLE	(g)	GAS MANHOLE
f	POWER/TELEPHONE POLE	(ġs	GAS SERVICE METER
7	LIGHT/TELEPHONE POLE	t	TELEPHONE PEDESTAL
Ľ		(t)	TELEPHONE MANHOLE
$\phi$	TELEPHONE POLE	tv	CABLE TV PEDESTAL
R	POWER/LIGHT POLE	$\bigcirc$	BOLLARD
			SIGN
$\int dr$	POWER/LIGHT/TELE POLE	÷¢-	LUMINESCENT SIGN
$\overline{\mathcal{A}}$	UNKNOWN POLE	CO	CLEANOUT
<b>e</b>	ELECTRIC METER		YARD LIGHT
<i>e</i>	ELECTRIC MANHOLE		FLAG POLE
318	TRANSFORMER	g pmp	GAS PUMP
<i>e</i>	ELECTRIC PULLBOX	mb	MAIL BOX
			UL
	ROL NOTES		BUILDING DUR

CLOSED OR RESTRICTED FOR THE UNLOADING / LOADING OF EQUIPMENT CONSTRUCTION ACTIVITIES THEMSELVES. IT IS THE CONTRACTOR'S DINATE DIRECTLY WITH THE LOCAL GOVERNING AUTHORITIES ON ANY SUCH AIN WRITTEN PERMISSION FROM THE APPROPRIATE AUTHORITIES PRIOR TO SURES OR RESTRICTIONS. ANY CLOSURE OR RESTRICTION MUST COMPLY OF UNIFORM CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS ISION), AND WITH ANY AND ALL ADDITIONAL APPLICABLE CITY, VILLAGE, OR THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL TRAFFIC D THE LOCAL GOVERNING AUTHORITIES IF REQUESTED. ALL REQUIRED WAINTENANCE DEVICES SHALL BE PROVIDED, ERECTED AND MAINTAINED, D BY THE CONTRACTOR.

MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES EET AT ALL TIMES DURING THE CONSTRUCTION OF THE IMPROVEMENTS S MUST BE MAINTAINED AND ALL TRENCHES SHALL BE BACKFILLED AT THE PER THE STATE MUTCD AND OTHER APPLICABLE APPROPRIATE GOVERNING ONTRACTOR SHALL PROVIDE ALL NECESSARY SAFEGUARDS SUCH AS ORY BARRIERS, CONES, SIGNAGE, BARRELS, MESSAGE BOARDS, LIGHTING, MENT OFFICERS, ETC. TO AVOID DAMAGE AND / OR INJURY TO VEHICLES AND E CONSTRUCTION AREA.



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GEN	IERAL SITE WORK I	NOTES CONTINUED		1		THE DEF MATERIAL
PART	1 - GENERAL				F.	EXCEPT V
		PING, EROSION CONTROL, SURVEY D TO COMPLETE THE PROPOSED WC		TION AND	G.	CLEARING
1.1	REFERENCES					
•	STATE DEPARTMENT CONSTRUCTION-CURREN	OF TRANSPORTATION STANDA TEDITION).	RD SPECIFICATIONS FOR	HIGHWAY	H.	PRIOR TO VERIFY 1 EXISTENC
B. A	ASTM (AMERICAN SOCIET	Y FOR TESTING AND MATERIALS).				SHOWN T MANAGEF
C. C	SHA (OCCUPATION SAFE	TY AND HEALTH ADMINISTRATION).				INDICATE
1.2	INSPECTION AND TESTIN	IG:			Ι.	SEPARAT EXCAVAT
		WORK COMPACTION AND CONCRE G LAB. THIS WORK TO BE COORDINA		DRMED BY	J.	DURING REQUIRE
C C R	OUT THE GENERAL INSPE OF THE WORK AS SPEC RESPONSIBILITY TO REQ	PECTED AND RELEASED BY THE GE ECTION OF THE WORK WITH SPECIF IFIED AND/OR CALLED FOR ON TH UEST TIMELY INSPECTIONS PRIOR S OF WORK INACCESSIBLE OR DIFFI	FIC CONCERN TO PROPER PERF IE DRAWINGS. IT IS THE CONT TO PROCEEDING WITH FURTH	ORMANCE RACTOR'S	K.	THE BASE PLACING MINIMIZE DRY, SAT PRIOR TC
	SITE MAINTENANCE AND				3.2	BACKFIL
	PROVIDE ALL NECESSA	RY JOB SITE MAINTENANCE FRONTRACT.	OM COMMENCEMENT OF WO	RK UNTIL		AS SO
D	SESIGNATED TO REMAIN.	SITE AND TO EXISTING FACILITI TAKE PROTECTIVE MEASURES TO MOVAL FROM BEING DAMAGED BY T	PREVENT EXISTING FACILITIES		Λ.	STRUCTU CONCRET FINISHED
С. К	EEP SITE FREE OF ALL P	ONDING WATER.			Β.	PRIOR TO EXCAVAT
		TROL MEASURES IN ACCORDANCE	E WITH STATE DOT, LOCAL PE	ERMITTING	C.	DO NOT P
		ALL TEMPORARY FENCING, BARRI	CADES. WARNING SIGNALS AND	D SIMII AR	D.	BACKFILL
	DEVICES NECESSARY TO CONSTRUCTION. REMOVE	PROTECT AGAINST THEFT FROM PI ALL SUCH DEVICES UPON COMPLET	ROPERTY DURING THE ENTIRE F TION OF THE WORK.	PERIOD OF		BACKFILL 8-INCHES THE FILL COMPAC
C T G. P	OWNER OR OTHERS, EXO THEN ONLY AFTER ACCEP PROVIDE A MINIMUM 48-	CEPT WHEN PERMITTED IN WRITING PTABLE TEMPORARY UTILITY SERVIC HOUR NOTICE TO THE CONSTRUCT ORE INTERRUPTING ANY UTILITY SE	B BY THE CONSTRUCTION MANA ES HAVE BEEN PROVIDED. CTION MANAGER AND RECEIVE	AGER AND	E.	WHENEVI SPECIFIE REQUIRE CONTRAC
	2 - PRODUCTS					DRYING, COMPAC <sup>-</sup>
2.1	GRANULAR BACKFILL: SH	HALL MEET THE FOLLOWING GRADA	ΓΙΟΝ:		F.	THOROUG
	GRANULAR BEDDING A REQUIREMENTS OF AST	AND TRENCH BACKFILL: WELL-GR	ADED SAND MEETING THE G	RADATION	3.3	TRENCH
	UNSUITABLE MATERIAL CONTAINING REFUSE, F	HIGH AND MODERATELY PLASTIC	MINOUS MATERIAL, VEGETATIVE	E MATTER,	A.	UTILITY T AS DIREC REQUIRE
		ESS OF 3 INCHES IN ANY DIMENSION ER. TYPICAL THESE WILL BE SOILS C			B.	EXTEND T CONDUIT
		TOTAL PERCENT PASSING			C.	WHEN SO
	1 1/2 INCH (37.5 MM) 1 INCH (25.0 MM)	100 75 TO 100			3.4	TRENCH
	3/4 INCH (19.00 MM)	80 TO 100			A.	PROVIDE
	3/8 INCH (9.5 MM)	35 TO 75			·	REQUIRE
	NO. 4 (4.75 MM) NO. 30 (0.600 MM)	30 TO 60 7 TO 30			B.	NOTIFY T
	NO. 200 (0.75 MM)	3 TO 15			C.	CONDUC <sup>®</sup> ACCEPTA
	<u>3 - EXECUTION</u>				D.	PLACE G UNCOMP/ SPACE AF
	ENERAL:				E.	PROTECT
C	CONTROL MEASURES. TH	IERAL SITE PREPARATION ACTIVITE WORK AREA SHALL BE CONSTRUCT	TED AND MAINTAINED IN SUCH (		F.	ABOVE T
B. B	BEFORE ALL SURVEY, LAY	AIN THE SITE WILL BE DRAINED AT AI	ABLISH AND MAINTAIN ALL LINES	, GRADES,		8-INCH M
C. C	LEVATIONS AND BENCH	MARKS NEEDED FOR EXECUTION OF AREA WITHIN THE LIMITS OF THE BRIS AND VEGETATION RESTING ON	THE WORK. SITE. REMOVE TREES, BRUSH	, STUMPS,	J.	UNDISTUI 95 PERCE 698.
	OF THE SITE AREA TO BE				3.5	FINISH (
C F	GROUND SURFACE: ROC PROTRUDING THROUGH	S MATERIALS TO A DEPTH OF NO LE DTS, STUMPS, AND OTHER DEBRIS, THE GROUND SURFACE, RAKE, DISP ND REMOVE TO A DEPTH OF 12	BRUSH, AND REFUSE EMBEDD ( OR PLOW THE AREA TO A DEF	DED IN OR PTH OF NO	A.	PERFORI EVEN SU SHALL BE
Т	THEREBY EXPOSED.	RIAL COMPLETELY FROM THE SURF			B.	UTILIZE CONSTRU MATERIA

INITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE

WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM G, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.

FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM G AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.

D EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE CE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION R OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS D ON THE DRAWINGS.

E AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS ED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS D TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.

E OF ALL FOUNDATION EXCAVATIONS SHOULD BE FREE OF WATER AND LOOSE SOIL PRIOR TO CONCRETE. CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATING TO BEARING SOIL DISTURBANCE. SHOULD THE SOILS AT BEARING LEVEL BECOME EXCESSIVELY URATED, DISTURBED OR OTHERWISE ALTERED, THE AFFECTED SOIL SHOULD BE REMOVED ) PLACING CONCRETE.

ON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED JRE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE TE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED GRADE.

O PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE TION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.

PLACE FROZEN MATERIAL IN AS BACKFILL

BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN LOOSE THICKNESS AND COMPACTED, WHERE HAND OPERATED COMPACTORS ARE USED, . MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND ΓED.

ER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE D DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION MENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM TION REQUIREMENTS.

GHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM ISITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

H EXCAVATION:

RENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR CTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS ED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.

THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST

OFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, CONTACT R IMMEDIATELY.

HBACKFILL:

GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY MENTS.

HE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.

T UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ANCE TESTING.

GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH ACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO ROUND CONDUITS.

CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.

HE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN AXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.

CT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING RBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF ENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D

### GRADING:

M ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH. IRFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING E COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.

SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE JCTION OF FILLS. EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE

- THEIR ORIGINAL CONDITION.
- D. CONTRACTOR TO GRADE SITE TO DRAIN AND NOT POND WATER.
- 3.6 ASPHALT PAVING:
- SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.

# SIGN POST NOTES

- 1. ACCEPTABLE COLOR SUBSTITUTIONS:
- 2. OTHER ACCEPTABLE COLORS CAN BE FOUND ON ENCYCOLORPEDIA.COM
- INSTALLATION.

PAINT COL	BSTITUTIONS	
BRAND		COLOR
PANTONE		COOL GRAY #7 #a6a19e
BENJAMIN MOORE		FUSION / Af-675 #a6a3a1
BEHR		EQUINOX FF31-1 #9fa29d
SHERWIN - WILLIAMS	STAMPED CONCRETE - 765 #a2a29b	
VALSPAR		STONE MASON GRAY #a19c99

# LANDSCAPE/IRRIGATION NOTES

- EXISTING CONDITIONS AND SODDED AT A 3:1 MAXIMUM SLOPE.
- 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

- MATCH EXISTING CONDITIONS.
- ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.
- SHALL BE APPROVED BY OWNER FOR FINAL ACCEPTANCE.

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

A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING PER LOCAL DOT

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

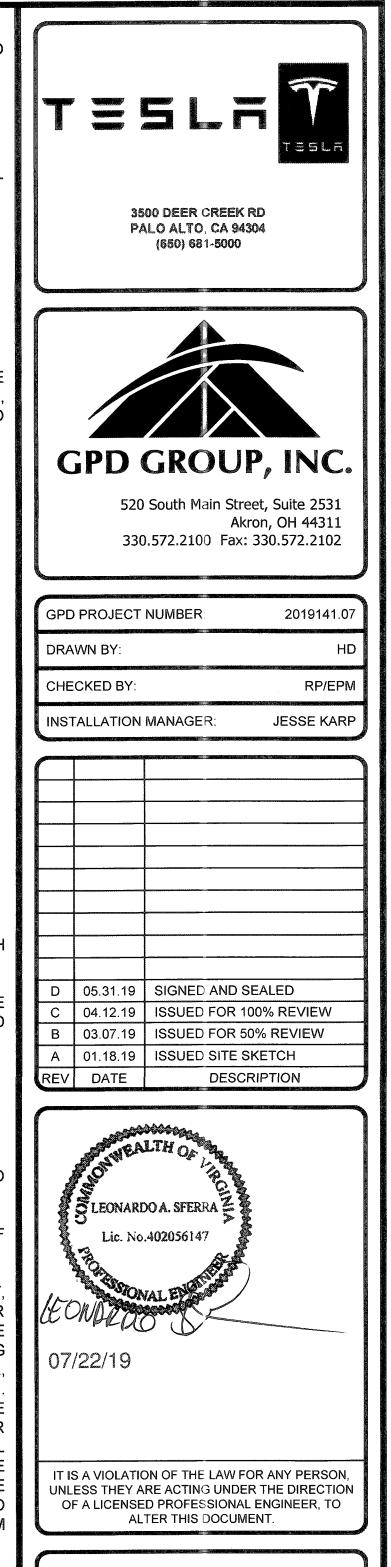
ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR MULCHED SHALL BE GRADED TO MATCH

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

ALL DISTURBED AND PROPOSED LANDSCAPE AREAS SHALL RECEIVE 3" OF PINE STRAW MULCH TO

4. PLANT GUARANTEE (IF APPLICABLE): CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF

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 APPARATUSES 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



465 MAPLE AVE. (TESLA STATION) VIENNA, VA 22180

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

LIFE SAFETY BLDG BUILDING ON

COUNT

KRIJEWED'

JUL 3 0 2019

GN-2

# GOVERNING BUILDING CODE:

GOVERNING BUILDING CODE: 2015 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (2015 IBC w/ AMENDMENTS)

# DESIGN LOADINGS:

SNOW LOADS: GROUND \$NOW LOAD (Pg)	25 PSF
LATERAL LOAD DESIGN DATA:	
WIND DESIGN DATA (ASCE 7-10):	
BASIC WIND SPEED (V <sub>ult</sub> )	115 MPH
BASIC WIND SPEED (V <sub>asd</sub> )	89 MPH
IMPORTANCE FACTOR	1.0
EXPOSURE CATEGORY	С
SEISMIC DESIGN DATA (ASCE 7-10)	
SEISMIC IMPORTANCE FACTOR	k (I) 1.0
RISK CATEGORY	
SITE CLASS	D (ASSUMED)
MAPPED SPECTRAL RESPONSE	
SHORT PERIODS (Ss)	0.121
1 SEC. PERIODS (S <sub>1</sub> )	0.052
SPECTRAL RESPONSE COEFF.	
SHORT PERIODS (S <sub>DS</sub> )	0.129
1 SEC. PERIODS (S <sub>D1</sub> )	0.083
SEISMIC DESIGN CATEGORY	В

### **GENERAL PROVISIONS:**

TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS OTHERWISE NOTED

DRAWINGS ARE NOT TO BE SCALED.

THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED, VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS, AND DETERMINE THE EXTENT OF WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.

EXISTING CONDITIONS, AS SHOWN ON THESE PLANS, ARE FOR REFERENCE ONLY. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL ASSUME THE MOST STRINGENT REQUIREMENTS APPLY IN CASE OF CONFLICT AMONG SPECIFICATIONS, STANDARDS, CODES AND DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO RESOLVE THE CONFLICT.

ANY DEVIATION, MODIFICATION, OR SUBSTITUTION FROM THE BID SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS. WITHOUT SUCH PRIOR APPROVAL, DEVIATIONS, MODIFICATIONS, OR SUBSTITUTIONS WILL BE REJECTED. COSTS FOR DEMOLITION AND REWORK OF SUCH ITEMS WILL BE BORNE BY THE CONTRACTOR.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED FOR IN-SERVICE LOADS ONLY. THE MEANS, METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHICH INCLUDE THE DETERMINATION OF ALLOWABLE CONSTRUCTION LOADING OF THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE, DESIGN, MONITOR, AND MAINTAIN ALL NECESSARY TEMPORARY AND PERMANENT SYSTEMS (SHORING, BRACING, GUYS, FALSEWORK, FORMWORK, SHEETING, ETC.) TO ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. ANY SYSTEMS SHOWN ON THE DOCUMENTS ARE PARTIAL AND SCHEMATIC IN NATURE AND EXTENTS ARE NOT ALL INCLUSIVE. ALL WORK SHALL BE PERFORMED WITHOUT DAMAGE TO ADJACENT EXISTING WORK.

THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW THE STRUCTURAL CONTRACT DOCUMENTS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS BETWEEN THOSE DOCUMENTS AND ANY SAFETY REGULATIONS. SUCH REVIEW AND NOTIFICATION SHALL OCCUR PRIOR TO PRODUCTION OF SHOP DRAWINGS.

THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS, AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.

SITE VISITS PERFORMED BY THE ARCHITECT/ENGINEER DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY THE CONTRACTOR.

STRUCTURAL OBSERVATIONS PERFORMED BY THE ARCHITECT/ENGINEER DURING CONSTRUCTION ARE NOT THE CONTINUOUS AND SPECIAL INSPECTION SERVICES AND DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING DEPARTMENT INSPECTOR OR THE TESTING AGENCY. ALSO, OBSERVATIONS DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.

NO STRUCTURAL ELEMENTS ARE TO BE CUT UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

# FOUNDATION SYSTEMS:

GENERAL

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL VERIFY ANY EXISTING FIELD CONDITION THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM.

THE CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION. UNDERGROUND UTILITY LOCATIONS, IF SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL PREDETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE SUPPORT OF UTILITIES ACROSS EXCAVATIONS.

SHEETING, SHORING, AND DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR

NO GEOTECHNICAL REPORT WAS PROVIDED AT THE TIME OF FOUNDATION DESIGN. A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PROVIDE CONSTRUCTION REVIEW TO ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATIONS, BACKFILL, AND FOUNDATION PHASES OF THE PROJECT.

DETERMINATION OF FINAL BEARING ELEVATIONS, TOPSOIL AND EXCAVATION STRIPPING DEPTH, INSPECTION OF ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, EXCAVATION OPERATIONS, APPROVAL OF FILL MATERIALS, DENSITY TESTING OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS, INSPECTION OF FOUNDATION BEARING SURFACES, AND VERIFICATION OF ALLOWABLE BEARING PRESSURES ARE THE TESTING LABORATORY'S RESPONSIBILITY.

ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC MATTER. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT FOUNDATION DEPTHS SHOWN, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION

CONTRACTOR SHALL COMPACT SUBGRADE. SEE FROST/NO FROST DESIGN NOTES BELOW.

FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF.

NEW FOOTINGS PLACED ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.

STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.

INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.

UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.

GROUNDWATER ASSUMED TO BE BELOW EXCAVATION DEPTH. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION ON SITE, CONTRACTOR SHALL PROVIDE FOR ANY SITE DRAINAGE AND DE-WATERING REQUIRED.

CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES PRIOR TO EXCAVATION. IF NECESSARY, UTILITIES SHALL BE RELOCATED PRIOR TO FOUNDATION INSTALLATION.

CHARGING CABINET PRE-FABRICATED ASSEMBLY FOUNDATION & ALL CHARGING POST FOUNDATIONS -FROST DESIGN NOTES (I.E. BOTTOM OF FOUNDATION ABOVE FROST LEVEL):

CONCRETE FOUNDATIONS SHOULD BEAR DIRECTLY ON A PROPERLY COMPACTED FREE-DRAINING GRANULAR FILL CONSISTING OF NO. 57 STONE OR AN APPROVED EQUIVALENT.

GRANULAR FILL SHOULD EXTEND VERTICALLY TO THE MINIMUM RECOMMENDED REGIONAL FROST DEPTH AND LATERALLY 2/3D FROM THE FOUNDATION PERIMETER (EXCLUDING SIDE OF PERIMETER ADJACENT TO CURB). GRANULAR FILL SHOULD BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED WITH A VIBRATORY COMPACTOR. THE COMPACTION EQUIPMENT SHOULD BE OPERATED OVER THE FULL WIDTH OF THE FOUNDATION UNDERCUT AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES, SEE SHEET T-1 FOR LOCAL FROST DEPTH.

GEOTEXTILE (FILTER FABRIC) SHOULD BE PLACED BETWEEN THE GRANULAR BACKFILL AND COHESIVE SOILS TO PRECLUDE THE INFILTRATION OF FINES.

CHARGING CABINET PRE-FABRICATED ASSEMBLY FOUNDATION & ALL CHARGING POST FOUNDATIONS -NO FROST DESIGN NOTES (I.E. BOTTOM OF FOUNDATION BELOW FROST LEVEL):

APPROVED MATERIAL SHOULD BE COMPACTED OVER THE FULL WIDTH OF THE INFILL AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES.

CONTRACTOR SHALL VERIFY POST TENSIONING AND REINFORCEMENT LOCATION IN EXISTING CONCRETE SLAB PRIOR TO DRILLING

#### SPREAD/TRENCH FOOTINGS:

CONCRETE FOUNDATIONS SHOULD BE SUPPORTED ON A 6 INCH COMPACTED LAYER OF APPROVED FREE-DRAINING GRANULAR MATERIAL

### SPECIAL INSPECTIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND OVERSEEING OF ALL SPECIAL INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. SPECIAL INSPECTIONS MUST BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.

#### EXISTING SLAB REINFORCEMENT INVESTIGATION/X-RAY:

# CONCRETE:

### **GENERAL**:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.

ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE.

SAFETY AND PERFORMANCE OF THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INSOFAR AS THEY ARE AFFECTED BY THE LOCATION AND DETAILS OF CONSTRUCTION JOINTS. SHOP DRAWINGS OF THE PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS ARE TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL

MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.

ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:

ALL CONCRETE - 4000 PSI

ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (± 1%) AIR ENTRAINMENT.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.

NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.

PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.

PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.

REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE

	OTHER		
BAR SIZE	ANCHORAGE	SPLICE	
#3	15	19	
# 4	19	25	
#5	24	31	
#6	29	37	

\* HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW BAR

NON-SHRINK GROUT SHALL MEET A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6000 PSI.

# STRUCTURAL STEEL

### GENERAL:

MATERIAL PROPERTIES:

PLATE:

PIPE:

TUBE:

ASTM A36 UNO
ASTM A53, TYPE
ASTM A500 GRA

ANCHORAGE

19

DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2010 AISC (360-10) SPECIFICATIONS.

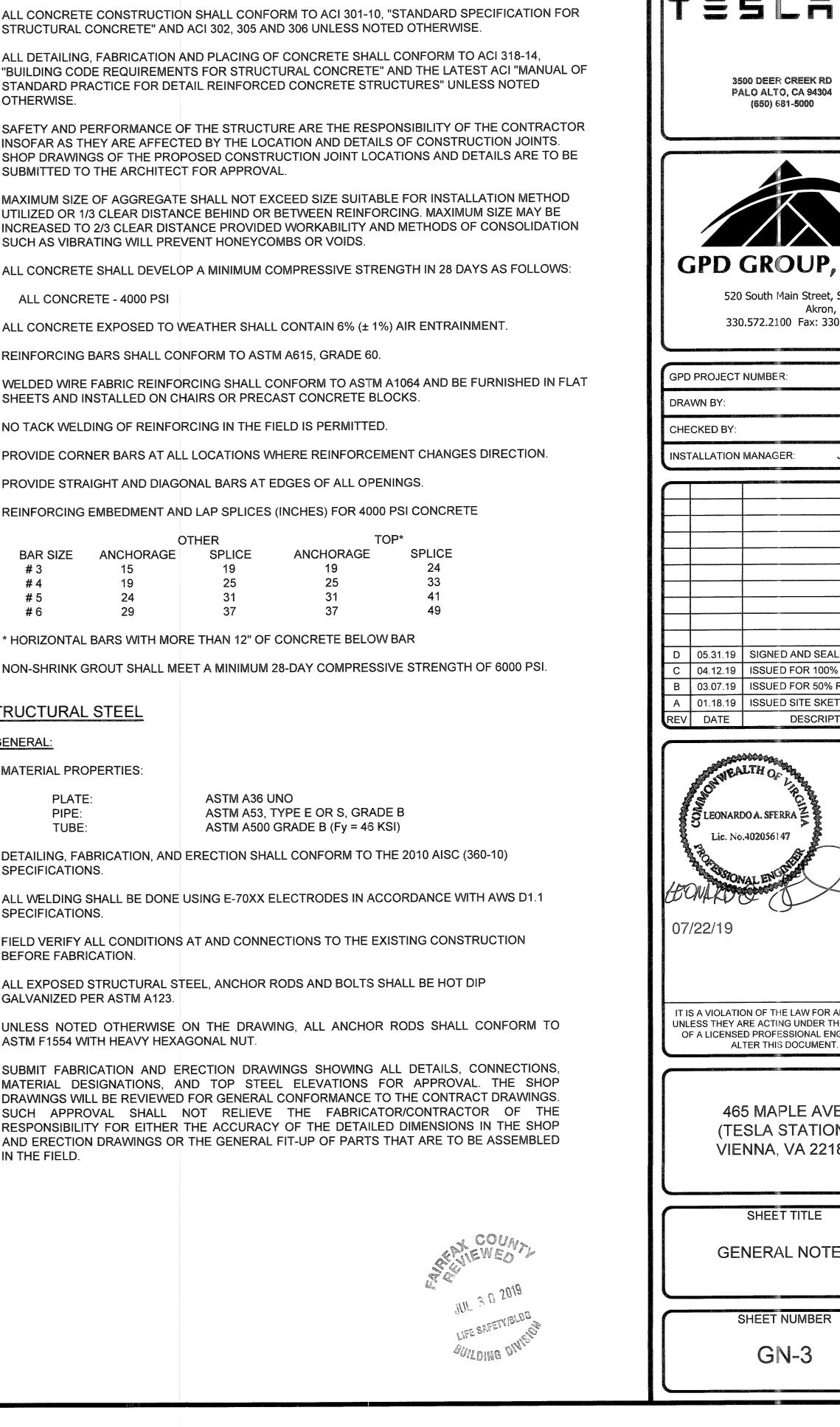
ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS.

FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION **BEFORE FABRICATION.** 

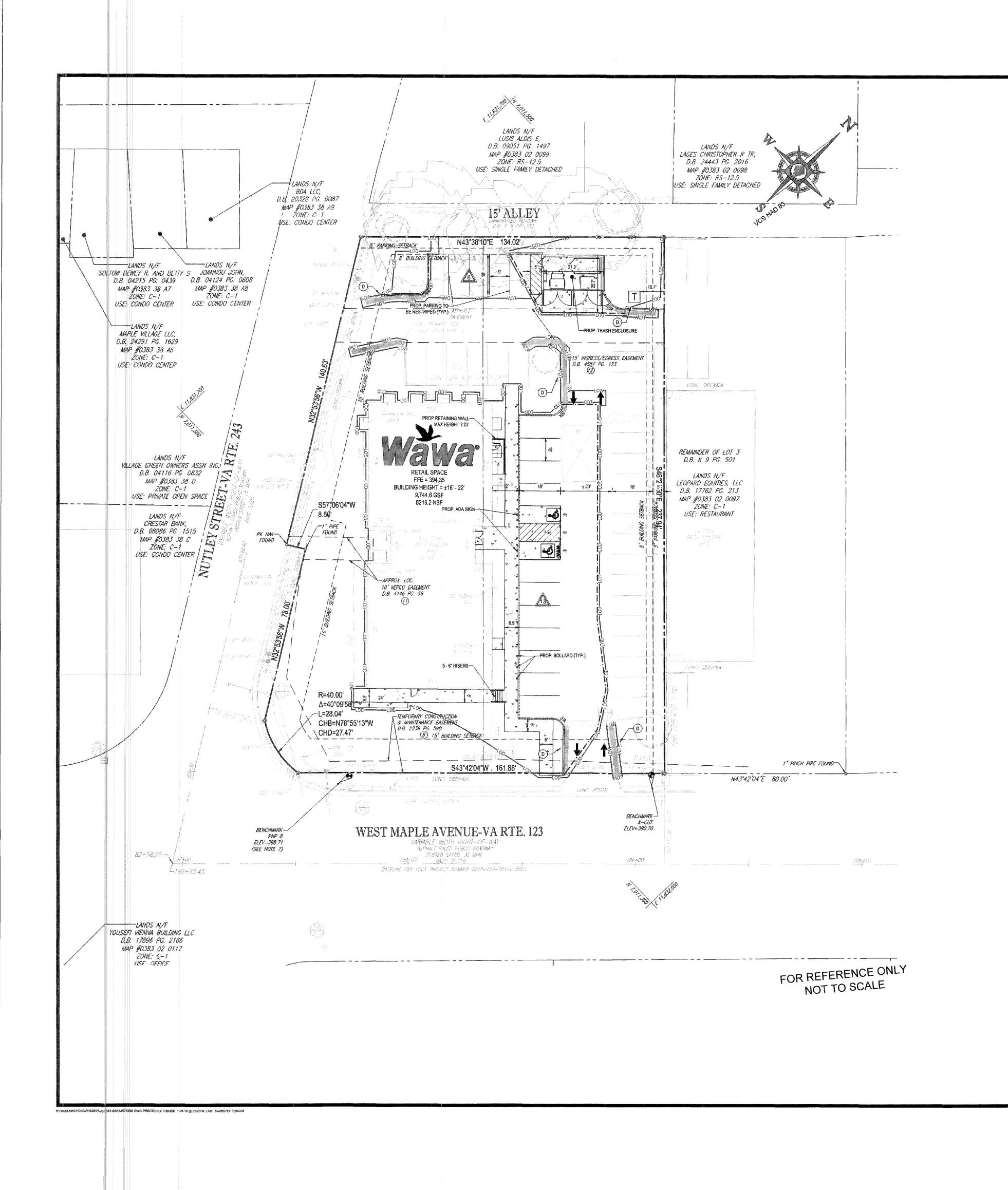
ALL EXPOSED STRUCTURAL STEEL, ANCHOR RODS AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.

UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.

SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.

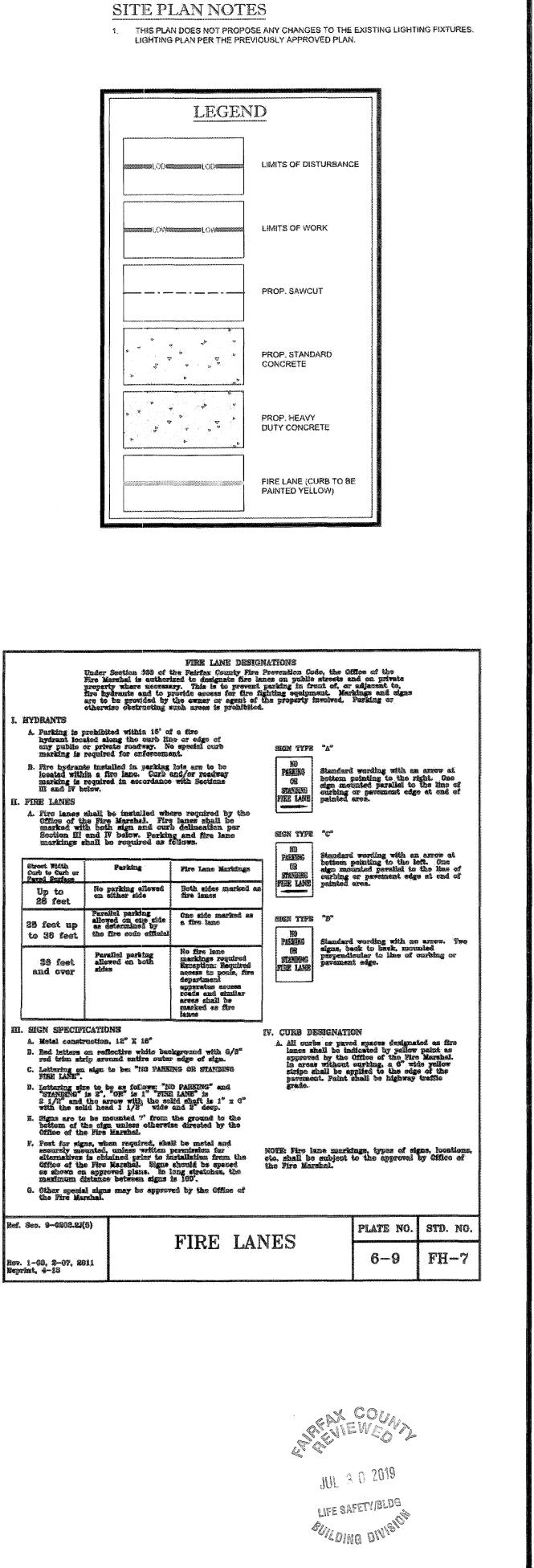


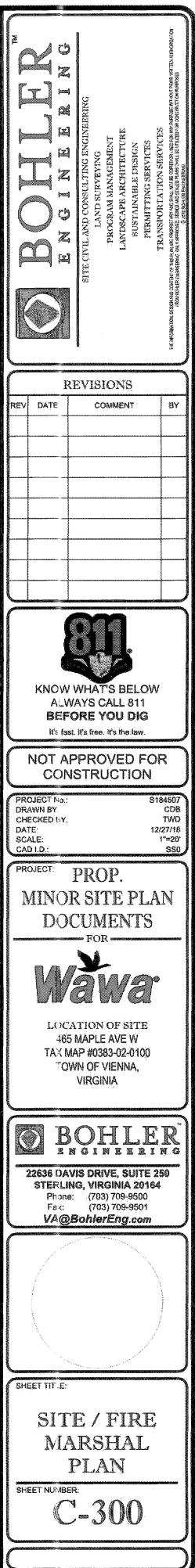
TESLA **GPD GROUP, INC.** 520 South Main Street, Suite 2531 Akron, OH 44311 330.572.2100 Fax: 330.572.2102 2019141.07 **RP/EPM** JESSE KARP D 05.31.19 SIGNED AND SEALED C 04.12.19 ISSUED FOR 100% REVIEW B 03.07.19 ISSUED FOR 50% REVIEW A 01.18.19 ISSUED SITE SKETCH DESCRIPTION IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO 465 MAPLE AVE. (TESLA STATION) **VIENNA, VA 22180 GENERAL NOTES** 

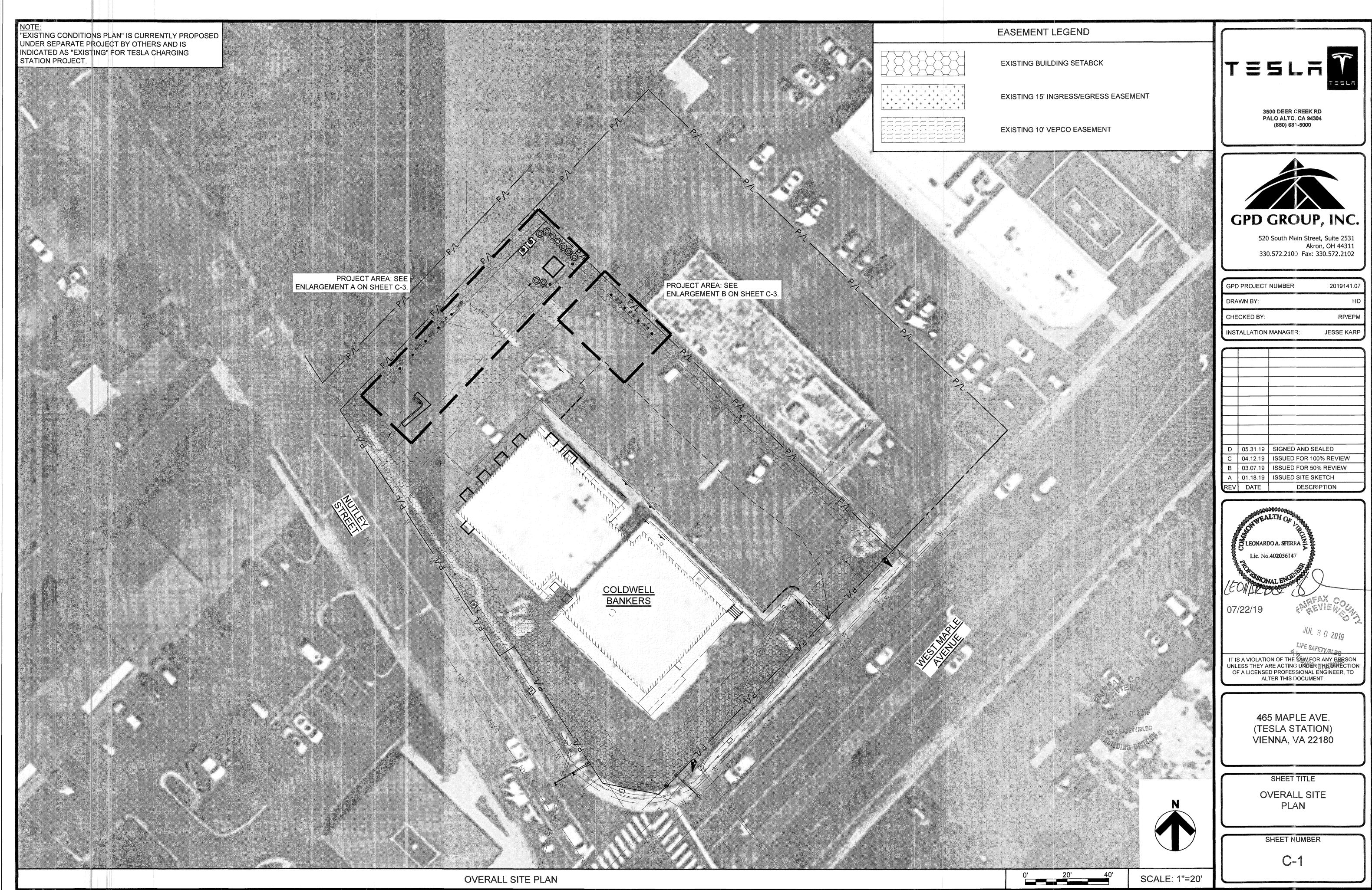


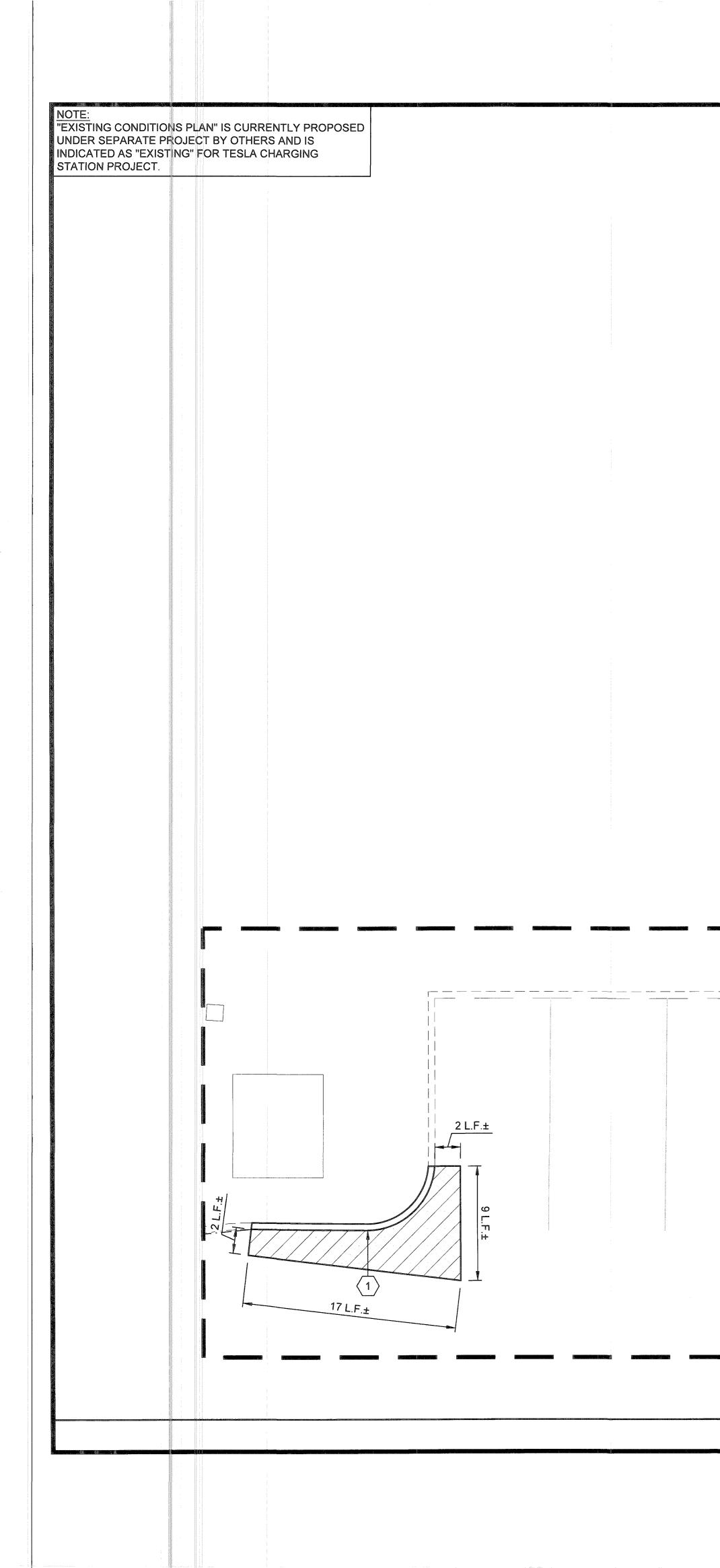
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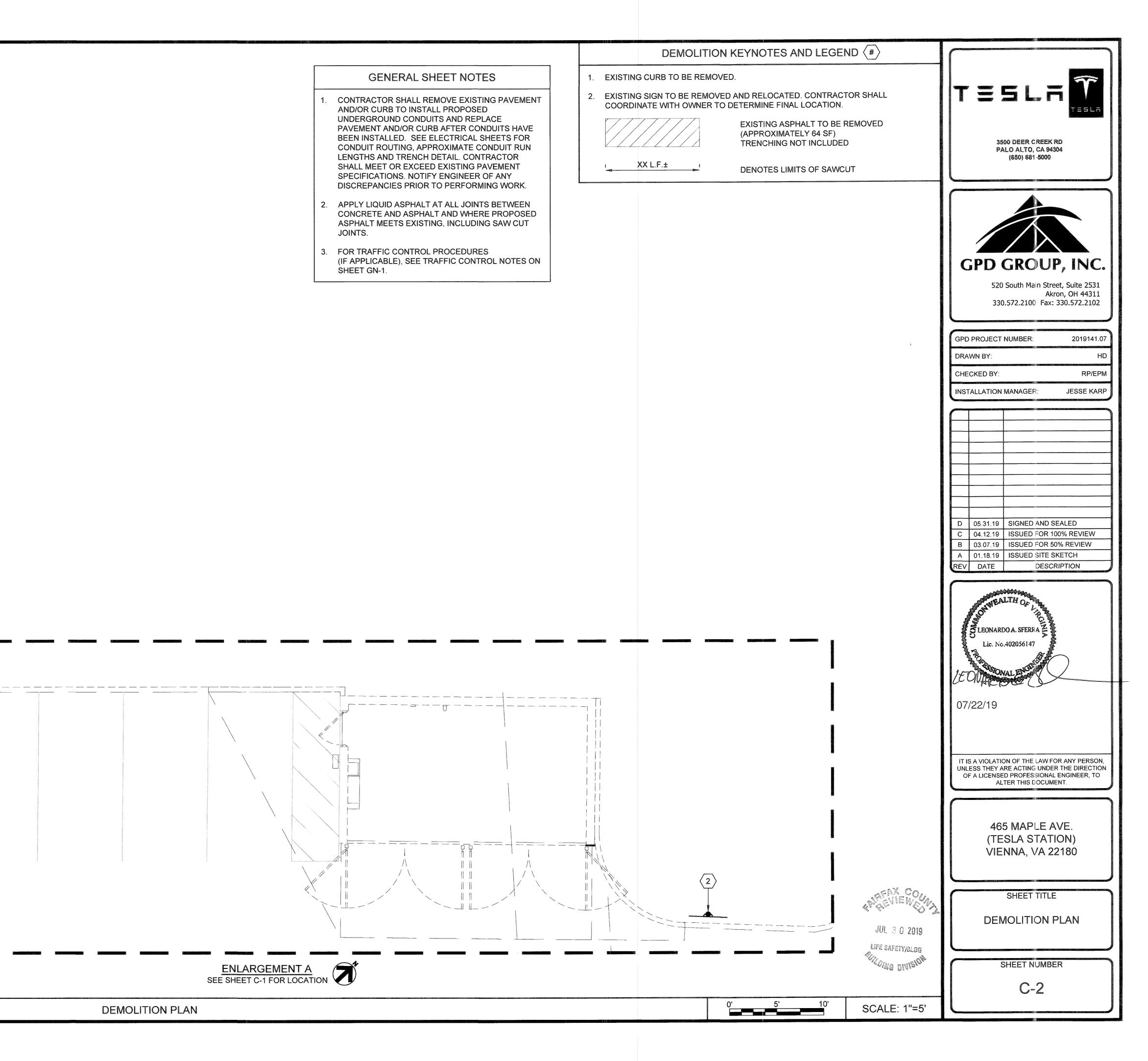
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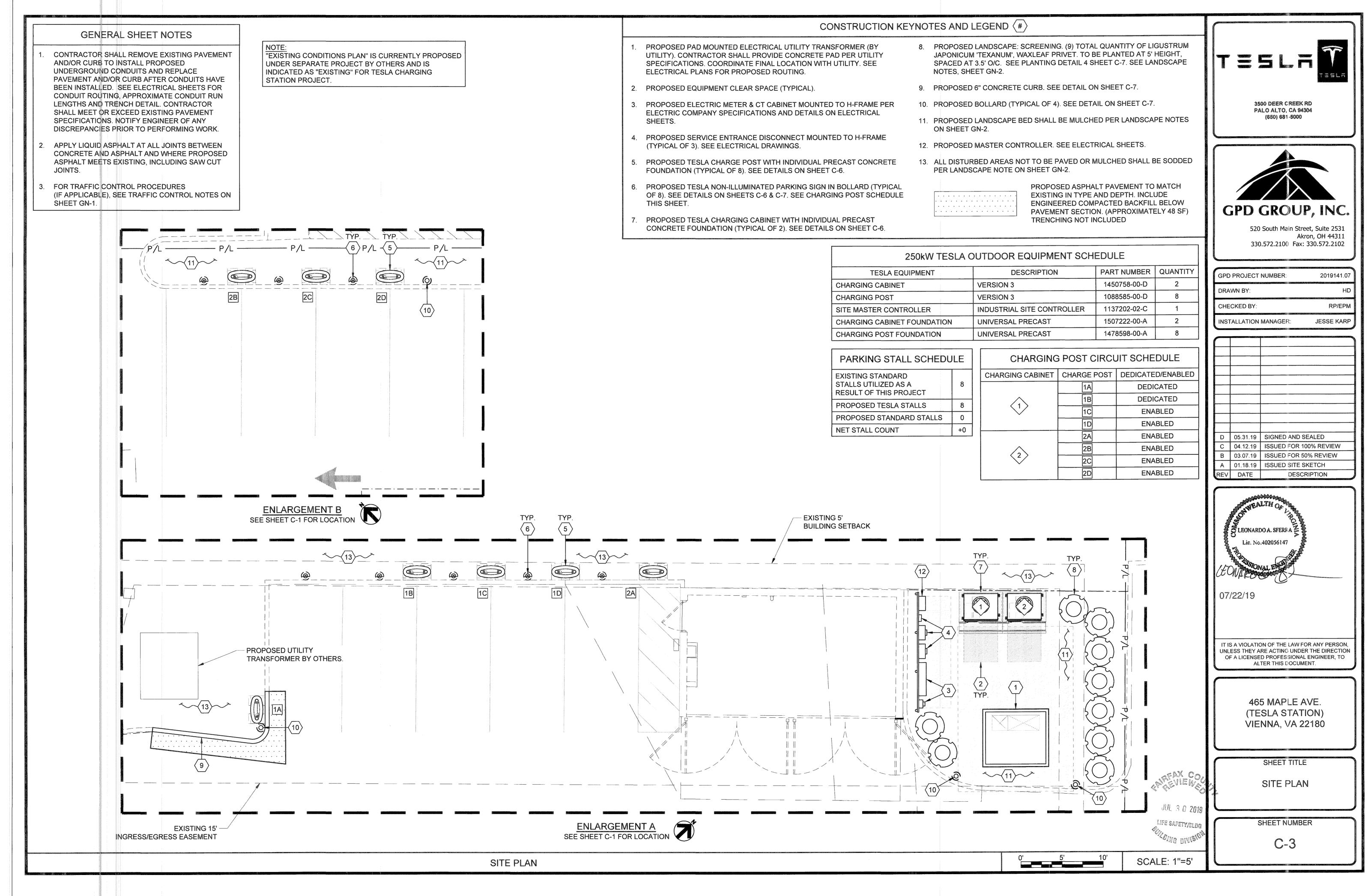








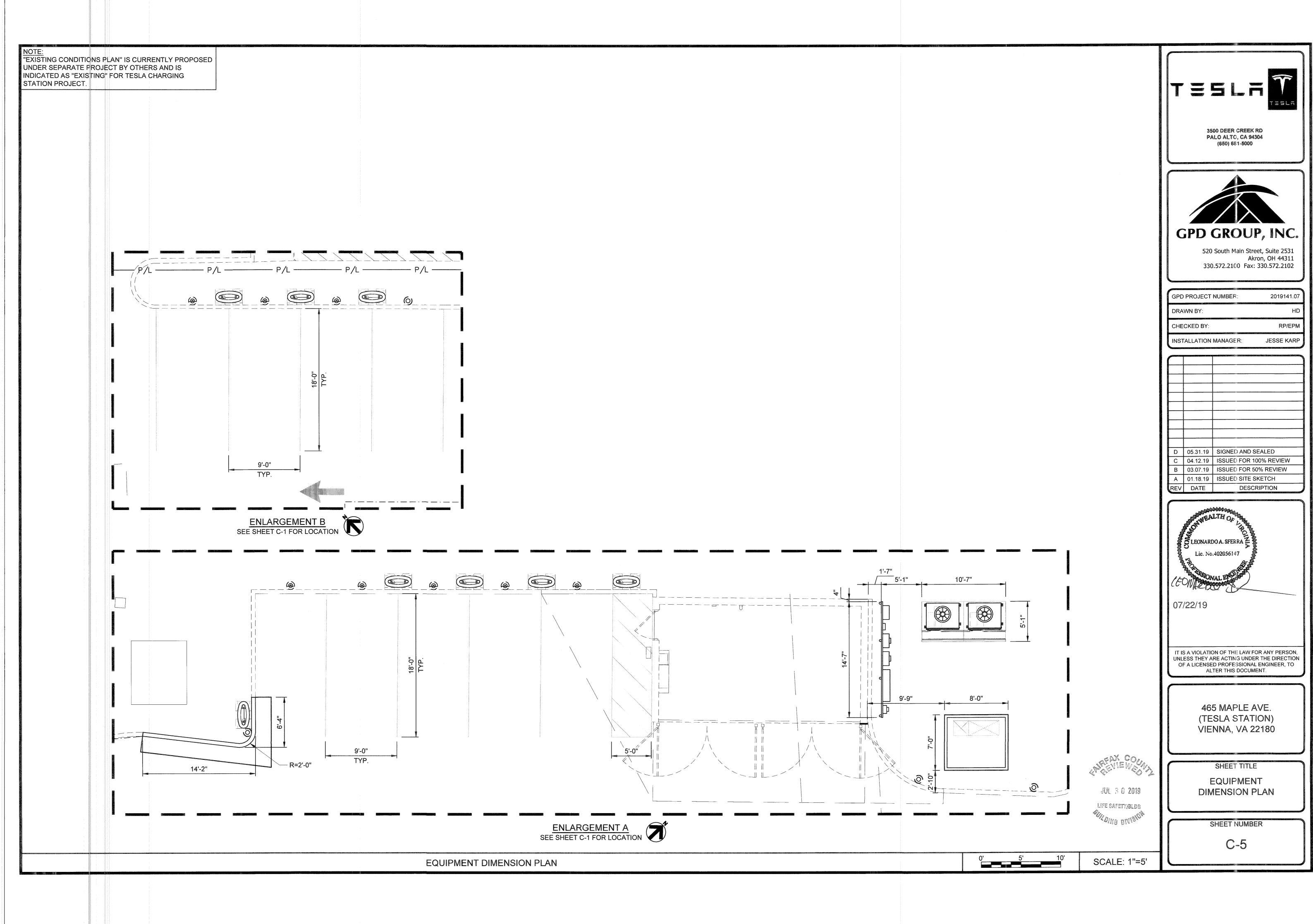


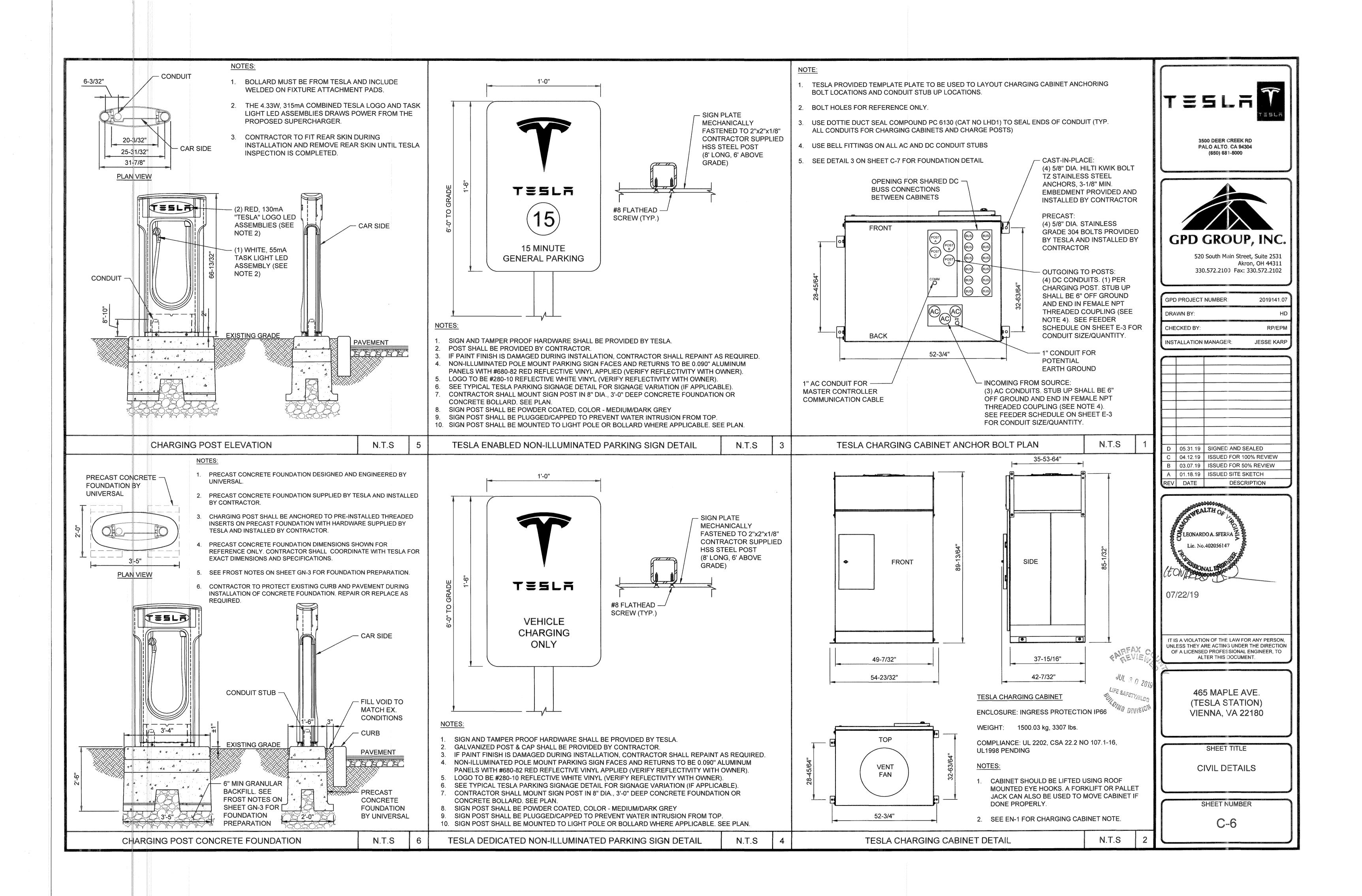


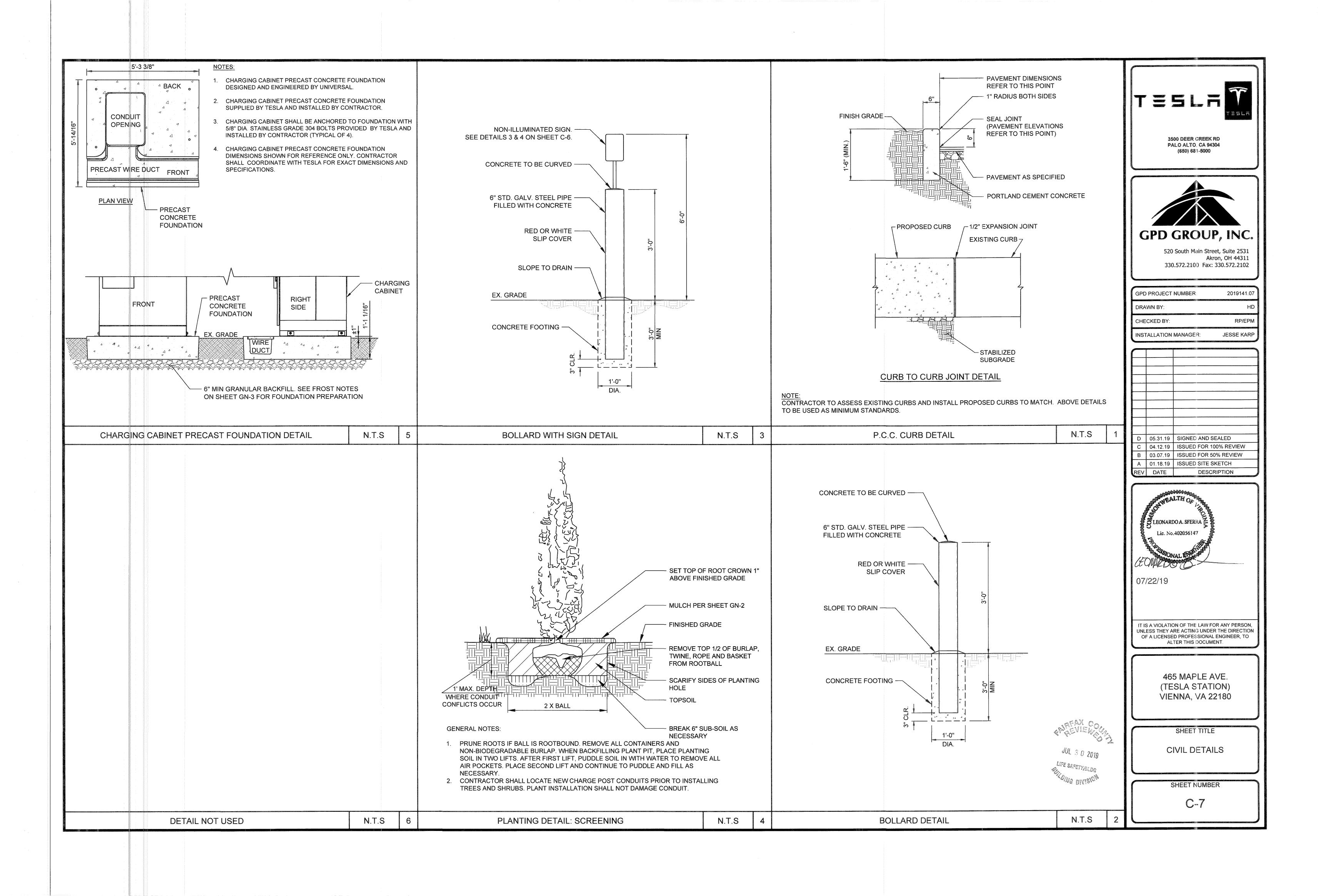
	CONSTRUCTION I	KEYNO <sup>-</sup>	TES AND LEGE
1.	PROPOSED PAD MOUNTED ELECTRICAL UTILITY TRANSFORMER (BY UTILITY). CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY SPECIFICATIONS. COORDINATE FINAL LOCATION WITH UTILITY. SEE ELECTRICAL PLANS FOR PROPOSED ROUTING.	8.	PROPOSED LANDS JAPONICUM 'TEXA SPACED AT 3.5' O/0 NOTES, SHEET GN
2.	PROPOSED EQUIPMENT CLEAR SPACE (TYPICAL).	9.	PROPOSED 6" CON
3.	PROPOSED ELECTRIC METER & CT CABINET MOUNTED TO H-FRAME PER ELECTRIC COMPANY SPECIFICATIONS AND DETAILS ON ELECTRICAL SHEETS.		PROPOSED BOLLA
4.	PROPOSED SERVICE ENTRANCE DISCONNECT MOUNTED TO H-FRAME (TYPICAL OF 3). SEE ELECTRICAL DRAWINGS.	12.	ON SHEET GN-2. PROPOSED MASTE
5.	PROPOSED TESLA CHARGE POST WITH INDIVIDUAL PRECAST CONCRETE FOUNDATION (TYPICAL OF 8). SEE DETAILS ON SHEET C-6.	13.	ALL DISTURBED AN PER LANDSCAPE N
6.	PROPOSED TESLA NON-ILLUMINATED PARKING SIGN IN BOLLARD (TYPICA OF 8). SEE DETAILS ON SHEETS C-6 & C-7. SEE CHARGING POST SCHEDUL THIS SHEET.		
7.	PROPOSED TESLA CHARGING CABINET WITH INDIVIDUAL PRECAST		

TESLA EQUIPMENT	DESCRIPTION	PART NUMBER	QUANTITY
CHARGING CABINET	VERSION 3	1450758-00-D	2
CHARGING POST	VERSION 3	1088585-00-D	8
SITE MASTER CONTROLLER	INDUSTRIAL SITE CONTROLLER	1137202-02-C	1
CHARGING CABINET FOUNDATION	UNIVERSAL PRECAST	1507222-00-A	2
CHARGING POST FOUNDATION	UNIVERSAL PRECAST	1478598-00-A	8

PARKING STALL SCHEDULE		CHARGING POST CIRCUIT SCHEDULE		
EXISTING STANDARD		CHARGING CABINET	CHARGE POST	DEDICATED/ENABLED
STALLS UTILIZED AS A RESULT OF THIS PROJECT	8		1A	DEDICATED
PROPOSED TESLA STALLS	8		1B	DEDICATED
	0		1C	ENABLED
PROPOSED STANDARD STALLS			1D	ENABLED
NET STALL COUNT	+0		2A	ENABLED
			2B	ENABLED
			2C	ENABLED
			2D	ENABLED







		an a	
GE	NERAL ELECTRICAL SPECIFICATIONS		HARGIN
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	1.	PER NE Equipi Ensur Or cui
2.	<u>IMPORTANT NOTE:</u> "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS SUBCONTRACTORS UNLESS NOTED OTHERWISE.		VEHICI VEHICI VOLTA
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.		READIN BEGINS STOP I ANY FA
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.		OF DET OVER-( FUSES
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.	<u>PC</u> 1.	ST CO
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.		PROTE FIRE-R REFER BLACK ACTUA ORIGIN AND A
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.		CORRI CONCI MARK VARIA IMPOR DRAW
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.		RECOF ONE (1 OWNE
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.	EX	WITHI
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.	1.	ALL EI RESPO CONT SALVA
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.	2.	OFF T
12.	CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK	3.	COMP EXIST
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.	4.	ARE N CONT CONT WITH
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.		RESO RENO LINES AND C COND FROM
LIC	ENSES, CERTIFICATIONS OF INSPECTION		PROP
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.	5.	THE C CONT CONT UNSO PERF(
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 CONSTRUCT ON IS TO TAKE PLACE. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AS REQUIRED, <u>ALL COSTS SHALL BE BORNE BY CONTRACTOR</u> .	6.	INTEN SUIT J SITE \ AFFEC
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.		COND
<u></u>	DDES AND ORDINANCES		
1. A.	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: UL - UNDERWRITERS LABORATORIES		
B. C. D. E.	NEC - NATIONAL ELECTRICAL CODE NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT SBC - STANDARD BUILDING CODE		
L. F.	NFPA - NATIONAL FIRE CODES		
pagaing And Malan			and the second

# **G CABINET NOTE**

625.22 - THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL ENT (CHARGING CABINET) AND THE FOLLOWING PRECAUTIONS HAVE BEEN TAKEN TO THE SAFETY OF CUSTOMERS AND THOSE AROUND THE EQUIPMENT. BEFORE ANY VOLTAGE RENT IS APPLIED TO THE CHARGE POST, THE CABINET MUST COMMUNICATE WITH THE TESLA THERE IS A 'HANDSHAKE' BETWEEN THE CAR AND THE CABINET CONFIRMING THAT THE IS ACTUALLY A TESLA AND THAT THE VEHICLE CAN HANDLE THE SUPERCHARGING. E IS THEN APPLIED TO THE POWER SOCKETS IN THE CHARGE POST AND ONCE THE VOLTAGE G FROM THE CAR IS VERIFIED AS THE SAME IN THE CHARGING CABINET, THEN CURRENT TO FLOW. IF AT ANY POINT IN THIS PROCESS A FAULT IS DETECTED, THE CHARGING WILL MEDIATELY, WITHIN A MATTER OF MILLISECONDS. DURING THE NORMAL CHARGING CYCLE, IF ILT OR IRREGULARITY IS DETECTED, THE CHARGING WILL AGAIN STOP WITHIN MILLISECONDS CTION. BEYOND THIS LOGIC PROTECTION, THERE IS PHYSICAL PROTECTION FROM JRRENT OR OVER-VOLTAGE WITHIN EACH OF THE CHARGERS. BEYOND THAT, FAST ACTING LSO PROTECT THE VEHICLE OUTPUTS FROM OUTPUTTING TOO HIGH OF A CURRENT.

# STRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

REQUIREMENTS: DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. TO **TRECORD DOCUMENTS FROM DETERIORATION AND LOSS, STORE IN A SECURE,** SISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE OWNER'S NCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR INE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS LLY SHOWN. MARK DRAWINGS THAT ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY CURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE PONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO LED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. ECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN ONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS ANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP GS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT COMPLETE SET OF RECORD DOCUMENTS TO THE CONSTRUCTION MANAGER FOR THE S RECORDS. CONTRACTOR SHALL SUBMIT AS-BUILT SET OF PLANS TO THE ENGINEER 7 DAYS OF COMPLETION OF CONSTRUCTION.

# CONDITIONS AND DEMOLITION

CTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE SIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE ED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED PREMISES.

CTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM ISTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE TION OF WORK.

G UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS AND NECESSARILY COMPLETE OR ACCURATE. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CTOR BEFORE START OF CONSTRUCTION.

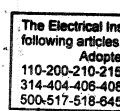
CTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST E PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE OWNER IN ORDER TO E ANY CONFLICTS. EXISTING ELECTRICAL CONDUIT, WIRING, ETC. DAMAGED DURING TION SHALL BE REPLACED IN LIKE KIND AND CHARACTER, AND AT THE EXISTING UTILITY RAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND ARACTER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING TS, CONTROL WIRING, ETC., WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM AMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF TY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

NTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE CT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION. THE CTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF DETAILS ARE CONSIDERED ID, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS MED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE D TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO 3 CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.

IT - CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS ING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING ONS. QUANTITIES OF MATERIALS SHALL BE PER CONTRACTOR'S MEASUREMENTS.

# BASIC ELECTRICAL MATERIALS AND METHODS

- APPROVAL BY THE OWNER.
- 3 -TRESPASSING" AND "CONSTRUCTION AREA".
- 4. DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
- 5.
- 6 BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.
- 7. REQUIRED BY N.E.C.
- 9.
- 10. ALL BOLTS SHALL BE STAINLESS STEEL.
- RACEWAYS PER THE NEC.



The Electrical Installation shall comply withe following articles of the NEC currently. Adopted by the VUSBC. 10-200-210-215-220-230-240-250-300 314-404-406-408-410-422-424-430-440-460 500-517-518-645-695-700 PLANS REVIEWED BY ELECTRICAL PLAN REVIEW AS NOTED: DAPPROVED D APPROVED FOR BUILDING PERMIT ONLY E REVISIONS APPROVED ( DATE: 8 1 19 BY:\_\_\_\_

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

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.

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

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

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.

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

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

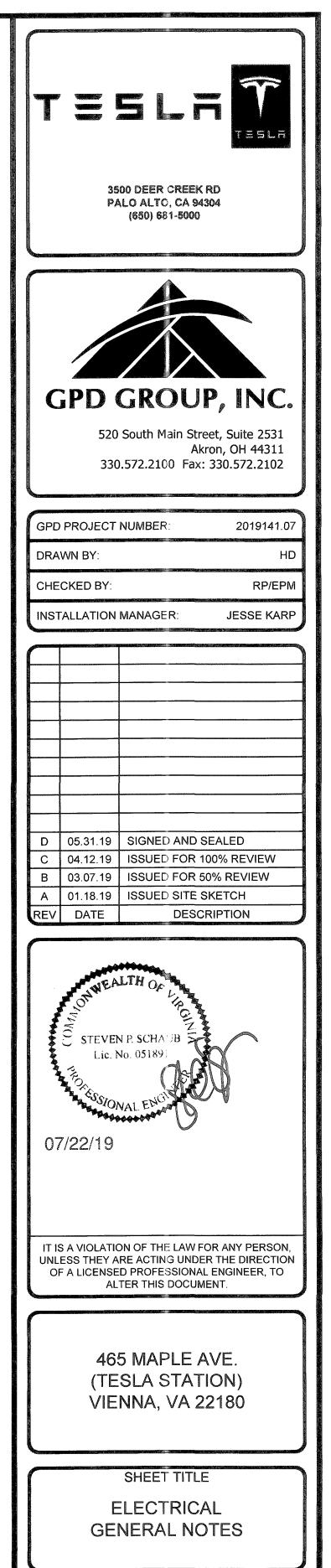
TRENCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION.

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

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

> BRANCH CIRCUITS SHALL **COMPLY WITH ARTICLE 220**

ELECTRICAL CIRCUITS AND EQUIPMENT SUBJECT TO FIELD INSPECTION



SHEET NUMBER

EN-1

ELECTRICAL EQUIPMENT	<u>CO</u>	NDUCTOF
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.	1.	WIRING - AI #14 AWG F UNLESS NO PROVIDE 7 FOR AMPA SMALLER, S
FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS	2.	WIRE SIZE
1. CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.	۷.	BASED UPC RECOMMEN
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	3.	PROVIDE A PERMITTED
ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.	4.	CONNECTO TWIST-ON ( LUGS FOR )
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	5. 6.	ALL CONNE SUCH AS "N CONNECTII SUBSTITUT CABLES - N
AUTHORITIES HAVING JURISDICTION.		
<ol> <li>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</li> </ol>	7.	PROVIDE W WIRE CORF
FAULT CURRENT, COORDINATION STUDY, AND ARC FLASH	8.	PROVIDE C GENERAL S
	AL	UMINUM C
1. CONTRACTOR SHALL CONDUCT A FAULT CURRENT CALCULATION AND COORDINATION STUDY TO ENSURE THE CORRECT AIC RATING OF NEW ELECTRICAL PANELBOARDS AND THE SETTINGS OF ANY ADJUSTABLE BREAKERS. THE RESULTS OF THESE STUDIES SHALL BE SUBMITTED WITH THE PANELBOARD SHOP DRAWINGS. ANY PANELS SUBMITTED WITHOUT THIS DOCUMENTATION WILL BE	1.	ALUMINUM
REJECTED WITHOUT BEING REVIEWED AT THE CONTRACTOR'S EXPENSE.	2.	THE CONTR LATEST ISS
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	3.	ALUMINUM
		WORK FOR
1. ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ANY LOCAL CODES.	4.	THE CONTR REQUIRED NECA ( NAT
2. ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.		ALL STAND
3. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.		WORKMAN
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.		A. TERM ONLY W
5. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.		B. ALL C
ELECTRICAL IDENTIFICATION		C. TERM ONLY A
<ol> <li>PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.</li> </ol>		D. NECA TO COPI
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.		E. DO N ALL / AN USED, F
3. COLOR CODING OF CONDUCTORS SHALL BE PER OWNERS REQUIREMENTS.		REQUIRI
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"		

# RS AND CABLES

LL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG FOR POWER, OR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER, 600V, COLOR CODED, OTED ALUMINUM (AL). REFER TO "ALUMINUM CONDUCTOR REQUIREMENTS" THIS SHEET. 5°C RATED CONDUCTORS FOR AMPACITIES ABOVE 100A AND 60°C RATED CONDUCTORS CITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND STRANDED FOR #8 AWG AND LARGER. UNLESS NOTED OTHERWISE ON DRAWINGS.

OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP ON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS NDED BY N.E.C. (NOT TO EXCEED 3%).

SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT D TO BE SHARED.

ORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL NO. 8 AWG AND LARGER.

ECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE NG. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO TIONS.

IC CABLE IS NOT PERMITTED.

VIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED PORATION: NEXANS: CERROWIRE: SOUTHWIRE: OR ENCORE WIRE.

CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; SIGNAL, O-Z/GEDNEY UNIT; SQUARE D COMPANY, ANDERSON; ILSCO; OR BURNDY.

# CONDUCTOR REQUIREMENTS

CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR THE NEWEST ALUMINUM OR SPECIFICATION BEING USED BY THE INDUSTRY.

RACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE SUE OF THE NEC.

I CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. TOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF R RATED ALUMINUM CONNECTORS.

RACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS BY THE NEIS (NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE TIONAL ELECTRICAL CONTRACTORS ASSOCIATION). THE CONTRACTOR SHALL ABIDE BY DARDS IN THE NECA / AA - 2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND ISHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:

VINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP /ITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER.

CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.

WINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING TORQUE WRENCH.

A / AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS PPER BUS BARS. ABIDE BY ALL NECA / AA RECOMMENDATIONS.

IOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE VY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF FOLLOW U.L. GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS ED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED.

# RACEWAY AND BOXES

BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE PER MANUFACTURER'S RECOMMENDATIONS.

A. ABOVE GRADE: R.G.S.

- B. BELOW GRADE: SCHEDULE 40 PVC (UNLESS NOTED OTHERWISE)
- ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
- 3. WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
- SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- CORPORATION; ANAMET INCORPORATED, ANACONDA METAL HOSE; ANIXTER BROTHERS OR WHEATLAND TUBE COMPANY.
- CONDUX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED, RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
- PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING: GENERAL SIGNAL.
- COMPANY: KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.
- 9 CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY,

### SAFETY SWITCHES

FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

# FUSES

- 1. FUSES SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL
- 2. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.

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 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

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

4. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND

5. PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT;

PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION;

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

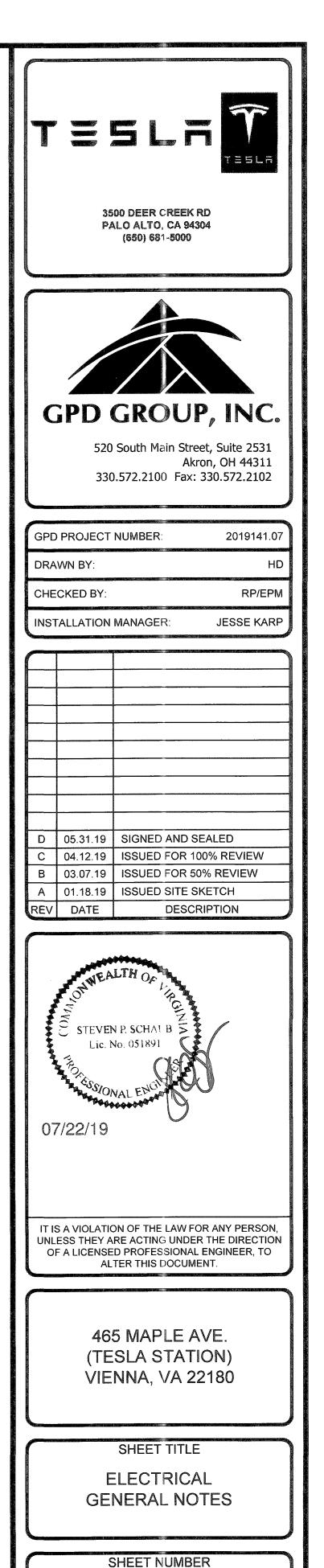
8. PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING

PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING: 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.

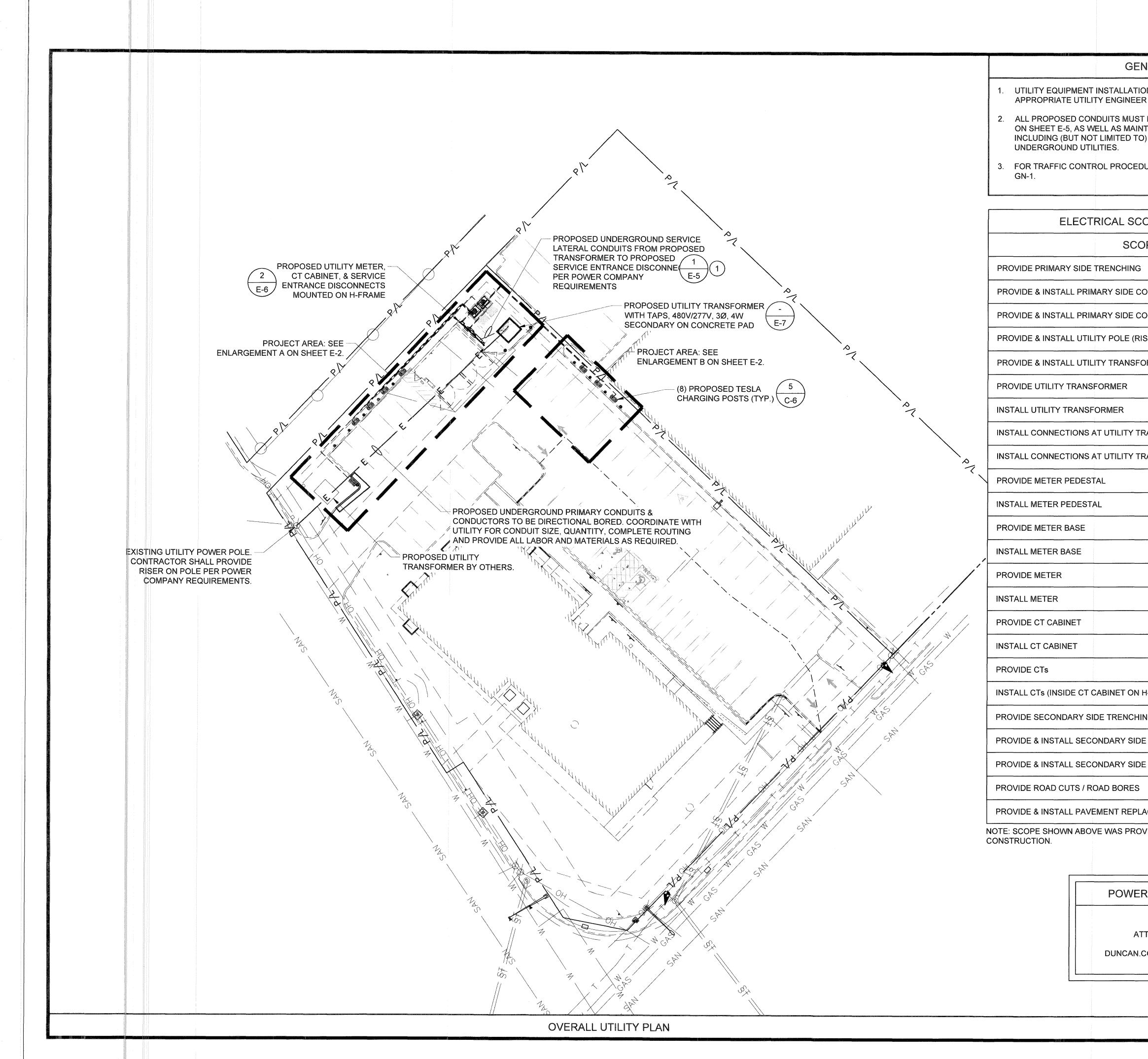
1. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS AND/OR RISER DIAGRAM. PROVIDE NEMA ENCLOSURE AS REQUIRED BY EXPOSURE TYPE. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT

COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE N.E.C.

and the second se	NOTE: ALL ELECTRICAL NOTATIONS
l	SHALL COMPLY AS NOTED.



**EN-2** 



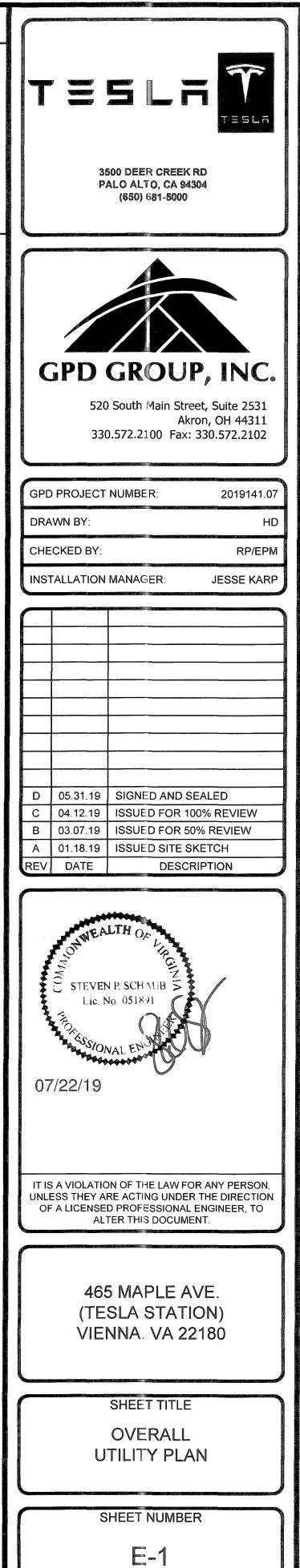
# GENERAL SHEET NOTES

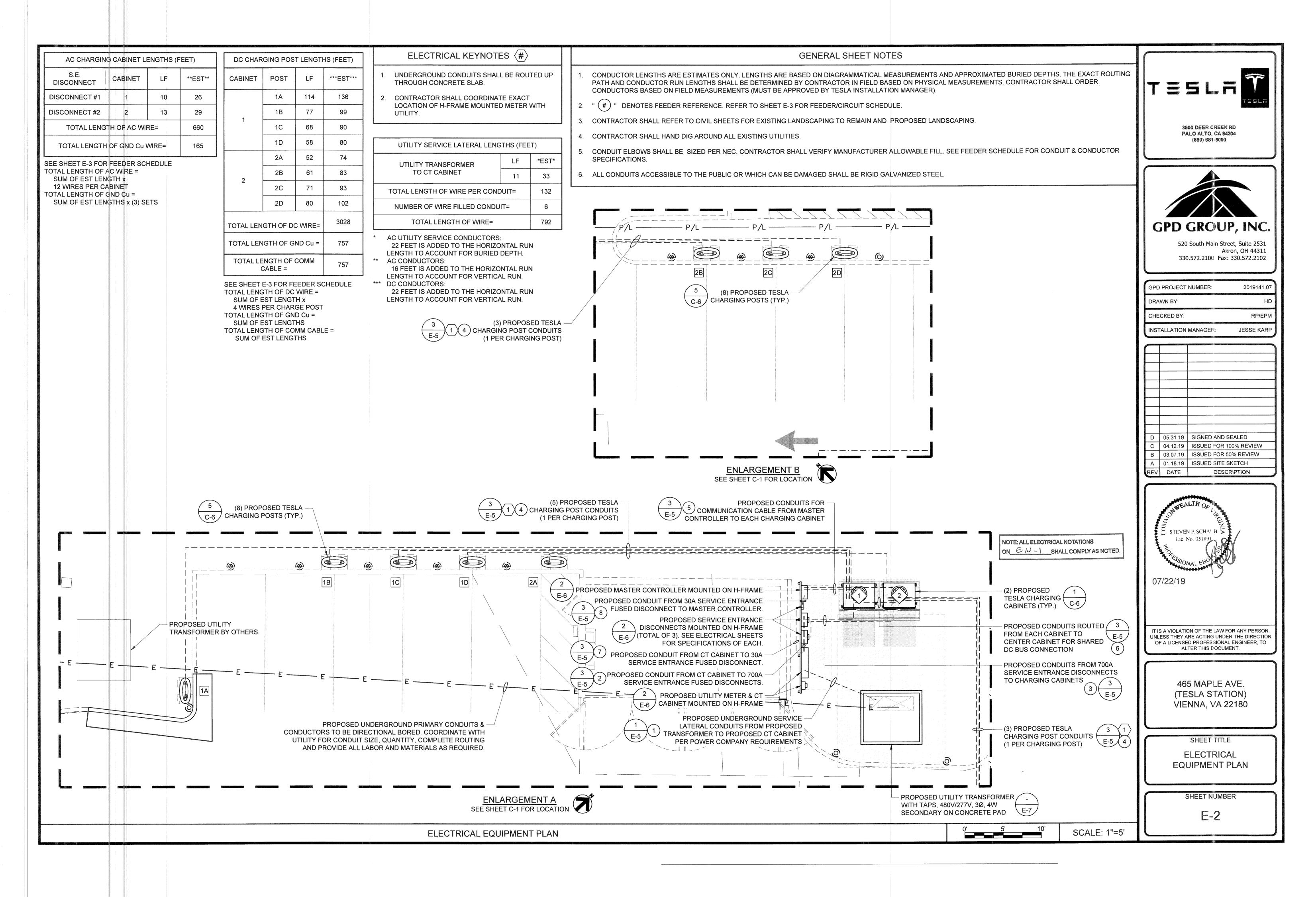
UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.

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

3. FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET

ngggan dididilan na ang ang ang ang ang ang ang ang an			
OPE OF WORK RESPONS	SIBILITIES		
DPE	BY UTILITY	BY CONTRACTOR	
·		X	
ONDUITS W/ PULLWIRE		X	
ONDUCTORS	×	-	
SER BY CONTRACTOR)	x		
ORMER PAD	X		GF
	X		DF Cł
му	X		IN
RANSFORMER (PRIMARY)			
RANSFORMER (SECONDARY)	X		
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	X		A RE
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	X		
H-FRAME)		X	
NG		X	
E CONDUITS W/ PULLWIRE		X	
ECONDUCTORS		X	
	BORES	CUTS	TI PU
ACEMENT		X	
VIDED BY DOMINION ENERGY. FI	L IELD VERIFY P	RIOR TO	
NOTE: A	ALL ELECTRICAL I	NOTATIONS L COMPLY AS NOTED.	
R COMPANY CONTACTS			
DOMINION ENERGY TN: DUNCAN COCKERILL (703) 934-2594 COCKERILL@DOMINIONENERGY		N	
0' 20'	40'	SCALE: 1''=20'	





NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION O	OF TESLA
SUPERCHARGERS.	

- PROPOSED UTILITY CTs SHALL BE LOCATED IN UTILITY APPROVED CT COMPARTMENTS MOUNTED ON H-FRAME. PROPOSED METER SHALL BE MOUNTED ON H-FRAME.
- 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.
- ALL BUSHINGS AND INTERNAL WIRING OF PROPOSED SERVICE EQUIPMENT PROVIDED BY MANUFACTURER. ANY MODIFICATIONS SHALL REQUIRE ENGINEERING APPROVAL PRIOR TO ANY CHANGES BEING MADE.
- 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.
- 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 LEVELS, AND SHALL DETERMINE MINIMUM PPE REQUIREMENTS FOR COMPLETING THE WARNING LABELS. PROVIDE WARNING LABELS

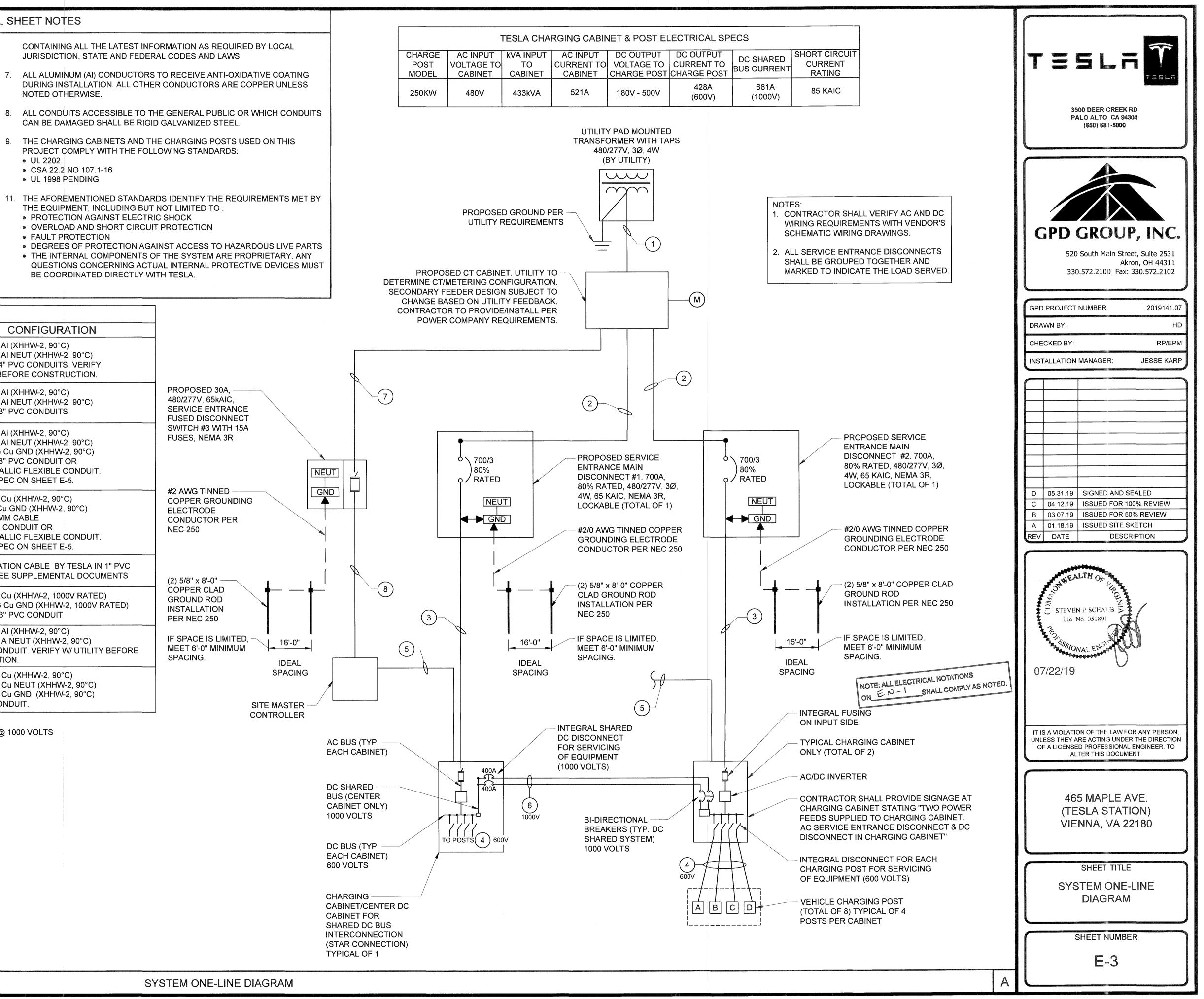
- CONTAINING ALL THE LATEST INFORMATION AS REQUIRED BY LOCAL JURISDICTION, STATE AND FEDERAL CODES AND LAWS
- DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
- CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
- 9. THE CHARGING CABINETS AND THE CHARGING POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS: UL 2202
- CSA 22.2 NO 107.1-16

**GENERAL SHEET NOTES** 

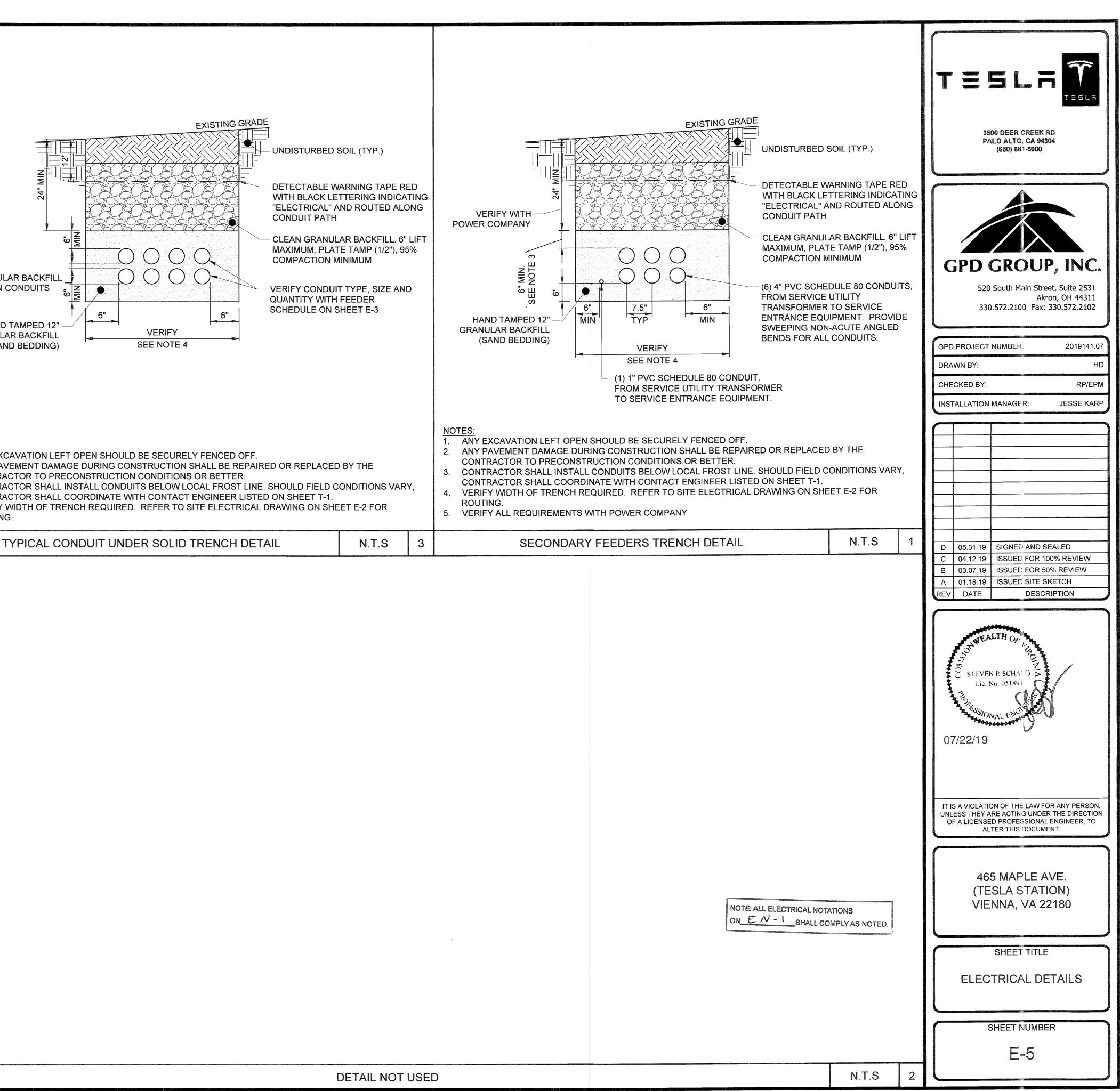
- UL 1998 PENDING
- 11. THE AFOREMENTIONED STANDARDS IDENTIFY THE REQUIREMENTS MET BY THE EQUIPMENT, INCLUDING BUT NOT LIMITED TO : PROTECTION AGAINST ELECTRIC SHOCK
- OVERLOAD AND SHORT CIRCUIT PROTECTION
- FAULT PROTECTION
- BE COORDINATED DIRECTLY WITH TESLA.

FEEDER/CIRCUIT SCHEDULE						
NO	FROM	ТО	CONFIGURATION			
1	UTILITY TRANSFORMER/ METERING	PROPOSED CT CABINET	(3) 300 MCM AI (XHHW-2, 90°C) (1) 300 MCM AI NEUT (XHHW-2, 90°C) IN EACH (6) 4" PVC CONDUITS. VERIFY W/ UTILITY BEFORE CONSTRUCTION.			
2	PROPOSED CT CABINET	PROPOSED SERVICE ENTRANCE DISCONNECT. 700A, 80% RATED BREAKER	(3) 300 MCM AI (XHHW-2, 90°C) (1) 300 MCM AI NEUT (XHHW-2, 90°C) IN EACH (3) 3" PVC CONDUITS			
3	PROPOSED SERVICE ENTRANCE DISCONNECT. 700A, 80% RATED BREAKER	PROPOSED TESLA CHARGING CABINETS 1-2	<ul> <li>(3) 300 MCM AI (XHHW-2, 90°C)</li> <li>(1) 300 MCM AI NEUT (XHHW-2, 90°C)</li> <li>(1) #1/0 AWG Cu GND (XHHW-2, 90°C)</li> <li>IN EACH (3) 3" PVC CONDUIT OR</li> <li>3" NON-METALLIC FLEXIBLE CONDUIT.</li> <li>SEE FLEX SPEC ON SHEET E-5.</li> </ul>			
4	PROPOSED TESLA CHARGING CABINETS 1-2	PROPOSED TESLA CHARGING POSTS 1-8	<ul> <li>(4) 350 MCM Cu (XHHW-2, 90°C)</li> <li>(1) #1 AWG Cu GND (XHHW-2, 90°C)</li> <li>(1) 600V COMM CABLE</li> <li>IN (1) 4" PVC CONDUIT OR</li> <li>4" NON-METALLIC FLEXIBLE CONDUIT.</li> <li>SEE FLEX SPEC ON SHEET E-5.</li> </ul>			
5	SITE MASTER CONTROLLER	PROPOSED TESLA CHARGING CABINETS 1-2	COMMUNICATION CABLE BY TESLA IN 1" PVC CONDUIT. SEE SUPPLEMENTAL DOCUMENTS			
6	CENTER CHARGING CABINET (SHARED DC BUS CABINET, 1000V)	DC SHARED BUS OF EACH CHARGING CABINET (1000 VOLTS)	(2) 600 MCM Cu (XHHW-2, 1000V RATED) (1) #1/0 AWG Cu GND (XHHW-2, 1000V RATED) EACH IN (2) 3" PVC CONDUIT			
7	PROPOSED CT CABINET	PROPOSED SERVICE ENTRANCE FUSED DISCONNECT	(3) #10 AWG AI (XHHW-2, 90°C) (1) #10 AWG A NEUT (XHHW-2, 90°C) IN 1" PVC CONDUIT. VERIFY W/ UTILITY BEFORE CONSTRUCTION.			
8	PROPOSED SERVICE ENTRANCE FUSED DISCONNECT	PROPOSED MASTER CONTROLLER	(1) #10 AWG Cu (XHHW-2, 90°C) (1) #10 AWG Cu NEUT (XHHW-2, 90°C) (1) #10 AWG Cu GND (XHHW-2, 90°C) IN 1" PVC CONDUIT.			
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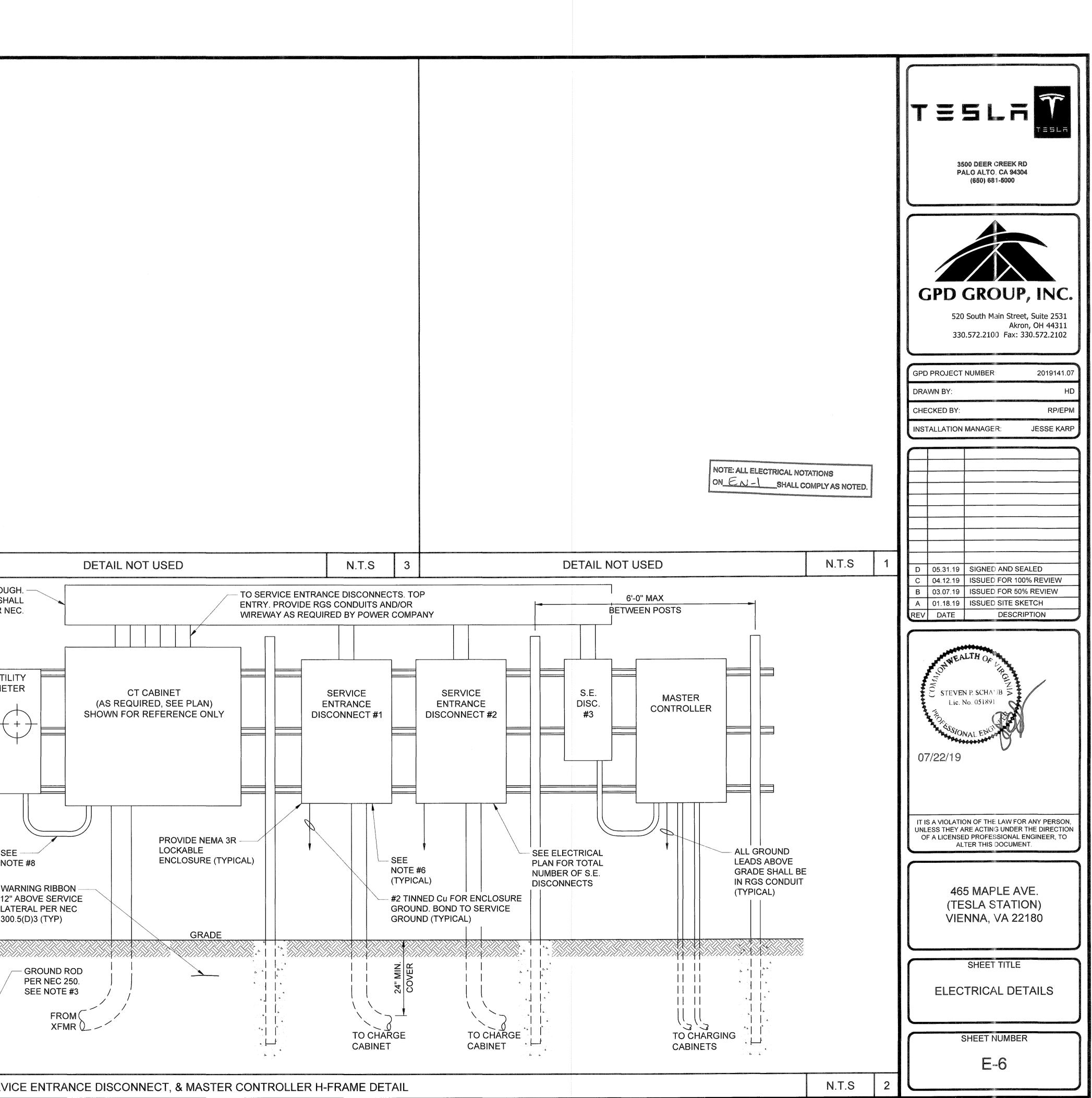
NOTE: ALL CONDUCTORS ARE RATED @ 600 VOLTS, EXCEPT THOSE CONDUCTORS NOTED @ 1000 VOLTS



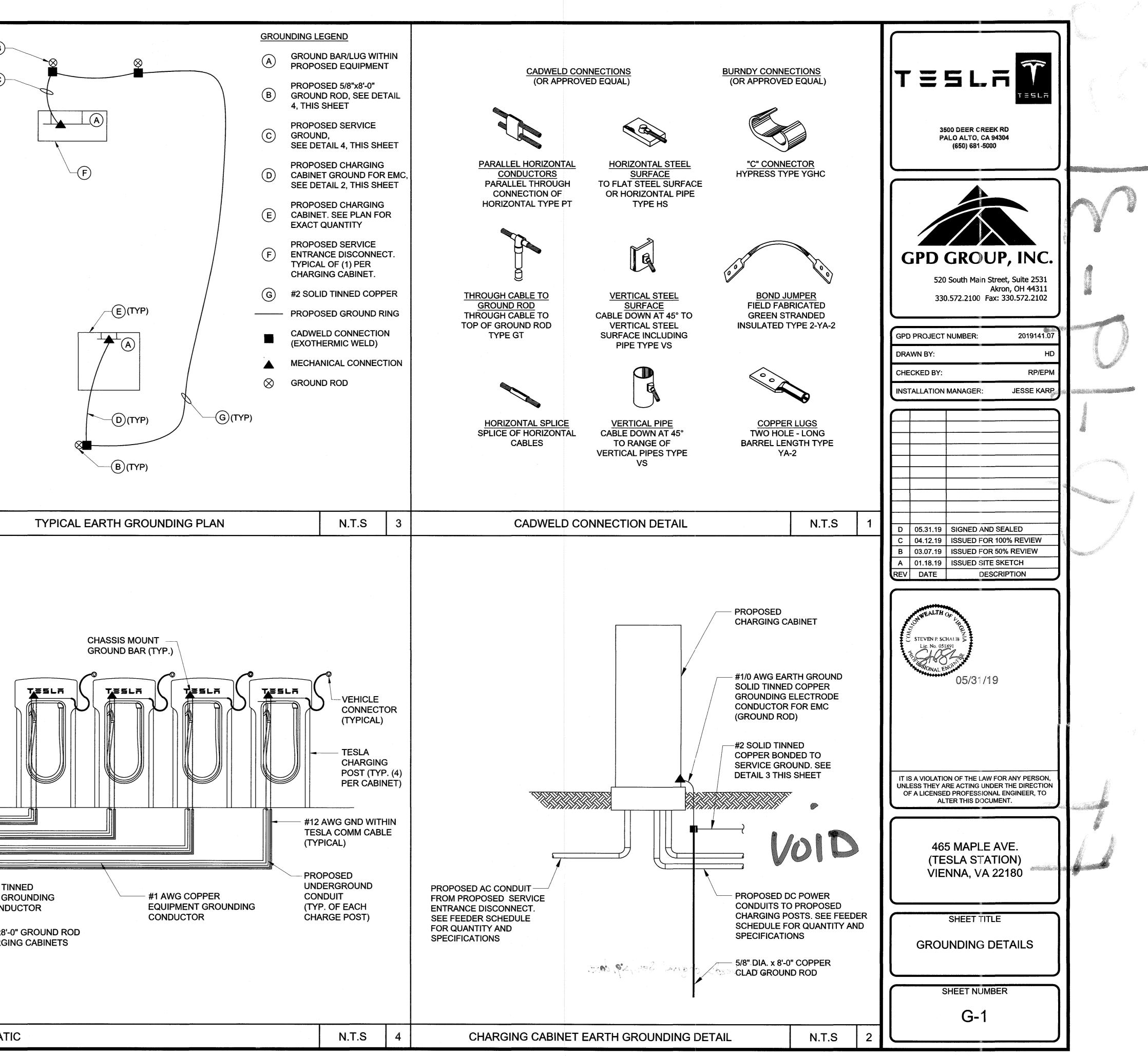
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	44th STREET	No los los los los los los los los los lo				
BRC	OKLYN, NY 112 : 718 768-1400	32				
FAX	: 718 768-5065					
July	· 26, 2018					
Re:	Sealproof non-m	netallic liquid tight conduit, 9	00c Wet Rating			
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			<ul> <li>established requirements</li> </ul>	for non-		
Sup	allic liquid tight c erflex has obtain duit. We have no	onduit to be "listed and mar ned this listing for our trader	ked" for use at 90c wet temp narked Sealproof non-metall onstructions, or processing c	peratures. lic liquid tight		
mal			e the change in print legend vorinted as 60c wet. Until that			
exh	austed, products	may be installed that are n		-		1" OF ( BET
brar	nd Sealproof and	a 105c dry temperature rai	ting, whether marked 60c we			
		er the UL listing for 90c wet	temperatures.			
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	e President, Ope erflex Ltd.	rations				
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* <b>* *</b>			BER DESCRIPTION OD	ID	BEND RADIUS	1. <i>A</i> 2. <i>A</i>
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PRODUCT INFO:	er's Laboratories					
Cen PRODUCT INFO: Listed under the Underwrite CSA Certified by Canadian S 3 inch trade size Use with SEALPROOP* zinc	er's Laboratories	• connectors.	Outdoor, sunlight resistant, direct t CSA rating - 18°C to 105°C	st. snife er PVC cutter,		
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DETAIL NOT USED	N.T.S 5	
HOLE LOCAT	NEMA 3R PROVIDE A STRUT WITH MOUNTING	POSED WIRE TROU CONTRACTOR SH AND INSTALL PER I
PROPOSED CONCRETE PIER 12" Ø (4000 PSI CONCRETE) SEE NOTE #2. ALL	SEE	ME
NOTES 1. SUPPORT POST: 3" STD GALVANIZED PIPE CEMENTED IN GROUND. BOND POSTS	NEC 250	
<ol> <li>TO GROUND FIELD.</li> <li>MOUNTING HARDWARE- 12 GAUGE 1-5/8" X 1-5/8" CONTINUOUS SLOT HOT DIPPED GALVANIZED CHANNEL (e.g., UNISTRUT) COMPLETE WITH 1-1/4" X 5/16" DIA. 13 THD SPRING NUT (2 PER CHANNEL), 5/16" HEX NUT, AND LOCK WASHER</li> </ol>	)+/-60"	
<ol> <li>SECURELY MOUNTED TO SUPPORT POSTS.</li> <li>METER SOCKET(S) MAY BE CONNECTED TO AN EXTERNAL GROUND ROD IF REQUIRED BY LOCAL INSPECTION AUTHORITIES.</li> </ol>		
<ol> <li>REFER TO FEEDER/CIRCUIT SCHEDULE ON SHEET E-3.</li> </ol>		1. L
5. ALL ABOVE GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL. PROVIDE PVC TO RGS COUPLER FOR TRANSITION.		
6. REFER TO ONE-LINE DIAGRAM ON SHEET E-3 AND TYPICAL EQUIPMENT GROUNDING SCHEMATIC ON SHEET G-1 FOR ADD'L GROUNDING DETAILS.	CEMENT POSTS - INTO GROUND	
7. ALL CUT POST & UNISTRUT ENDS SHALL BE FILED, GALVANIZED AND CAPPED.	SEE ENLARGED DETAIL (TYP.)	
8. PROVIDE A SEPARATE GALVANIZED RIGID METALLIC CONDUIT (SIZE PER UTILITY SPECS) WITH ALL THREADED JOINTS AND INSULATED BONDING BUSHINGS ON BOTH ENDS. ROUTE PER UTILITY SPECIFICATIONS OF METERING CONDUIT TO H-FRAME WITH CT'S LOCATED INSIDE ENCLOSURE. CONDUIT SHALL BE GROUNDED AT THE H-FRAME		
	METER, CT C	ABINET, SER\
	,	· · · · · · · · · · · · · · · · · · ·



NOTES:				(TYP)B
		NED SOLID COPPER CONDUCTORS TO G AND PROVIDE PARALLEL EXOTHERM		G.
2. ALL GROUND BARS SHAI	LL BE STAMPED IN TO T	HE METAL "IF STOLEN DO NOT RECYC	L <b>E</b> ."	(TYP)(C
		B" DIAMETER OR LARGER. ALL HARDW/ URFACES WITH AN ANTI-OXIDANT COM		
		CADMIUM FLAT WASHER BETWEEN LU OMPOUND BEFORE MATING.	G AND STEEL,	
5. DO NOT INSTALL CABLE GROUND BUS.	GROUND KIT AT A BEND	O AND ALWAYS DIRECT GROUND COND	OUCTOR DOWN TO	2
	AT-SHRINKING TUBE, 60	NT SIDE OF THE GROUND BAR AND BO 00 VOLT INSULATION, ON ALL GROUND RESSION CONNECTION.		
7. THE CONTRACTOR SHAL PROVIDING 50% SPARE (		R INSTALLING ADDITIONAL GROUND BA	AR AS REQUIRED	9
8. ENSURE THE WIRE INSU	LATION TERMINATION IS	S WITHIN 1/8" OF THE BARREL (NO SHIN	NERS).	
9. TESLA CHARGERS HAVE	INTERNAL HIGH IMPED	ANCE GROUND FAULT PROTECTION (1	0ΜΩ).	
10. EMC - ELECTROMAGNET	IC COMPATIBILITY.			
11. ALL GROUNDING HARDW	VARE SUPPLIED AND INS	STALLED BY CONTRACTOR.		
			-	
	GROUNDING NO	OTES	N.T.S	5
			I, ,,	<u> </u>
	[]			}
PROPOSED SERVICE				
DISCONNECT.				
TYPICAL OF (1) PER CHARGING CABINET		PROPOSED TESLA CHARGING		
FACTORY INSTALLED		CABINET (TYP.)	•	
MAIN BONDING	GRNDA			
				1
JUMPER				
FACTORY INSTALLED				
FACTORY INSTALLED				
FACTORY INSTALLED GROUND BAR(S)				
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING				
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED		#1/0 AWG TINNED		
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING ELECTRODE CONDUCTOR		COPPER EQUIPMENT		COPPER EARTH
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING				COPPER EARTH ELECTRODE COM
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING ELECTRODE CONDUCTOR PROPOSED 5/8"x8'-0"		COPPER EQUIPMENT GROUNDING CONDUCTOR		COPPER EARTH ELECTRODE CON
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING ELECTRODE CONDUCTOR PROPOSED 5/8"x8'-0" GROUND ROD (PER		COPPER EQUIPMENT		COPPER EARTH ELECTRODE CON
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING ELECTRODE CONDUCTOR PROPOSED 5/8"x8'-0" GROUND ROD (PER		COPPER EQUIPMENT GROUNDING CONDUCTOR #2/0 TINNED COPPER IF SPACE IS LIMITED,		COPPER EARTH ELECTRODE CON
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING ELECTRODE CONDUCTOR PROPOSED 5/8"x8'-0" GROUND ROD (PER	IDEAL SPACING	COPPER EQUIPMENT GROUNDING CONDUCTOR #2/0 TINNED COPPER		COPPER EARTH ELECTRODE CON
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING ELECTRODE CONDUCTOR PROPOSED 5/8"x8'-0" GROUND ROD (PER		COPPER EQUIPMENT GROUNDING CONDUCTOR #2/0 TINNED COPPER IF SPACE IS LIMITED, THEN MEET 6'-0"		COPPER EARTH ELECTRODE COM
FACTORY INSTALLED GROUND BAR(S) #2/0 AWG TINNED COPPER GROUNDING ELECTRODE CONDUCTOR PROPOSED 5/8"x8'-0" GROUND ROD (PER		COPPER EQUIPMENT GROUNDING CONDUCTOR #2/0 TINNED COPPER IF SPACE IS LIMITED, THEN MEET 6'-0" MINIMUM SPACING		#1/0 AWG SOLID COPPER EARTH ELECTRODE CON PROPOSED 5/8"x4 (1) PER (2) CHAR



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