

REFERENCE

PROJECT# - 2021-005575

CASE# - SI-2021-01835

FOR ALL DOCUMENTATION

(FINAL SIGN OFF IS STAMPED INCORRECTLY – PR-2020-005575)



Please check the appropriate box and refer to supplemental forms for submittal requirements. All fees must be paid at the time of application.

Administrative Decisions	Decisions Requiring a Public Meeting or Hearing	Policy Decisions
<input type="checkbox"/> Archaeological Certificate (Form P3)	<input type="checkbox"/> Site Plan – EPC including any Variances – EPC (Form P1)	<input type="checkbox"/> Adoption or Amendment of Comprehensive Plan or Facility Plan (Form Z)
<input type="checkbox"/> Historic Certificate of Appropriateness – Minor (Form L)	<input type="checkbox"/> Master Development Plan (Form P1)	<input type="checkbox"/> Adoption or Amendment of Historic Designation (Form L)
<input type="checkbox"/> Alternative Signage Plan (Form P3)	<input type="checkbox"/> Historic Certificate of Appropriateness – Major (Form L)	<input type="checkbox"/> Amendment of IDO Text (Form Z)
<input checked="" type="checkbox"/> Minor Amendment to Site Plan (Form P3)	<input type="checkbox"/> Demolition Outside of HPO (Form L)	<input type="checkbox"/> Annexation of Land (Form Z)
<input type="checkbox"/> WTF Approval (Form W1)	<input type="checkbox"/> Historic Design Standards and Guidelines (Form L)	<input type="checkbox"/> Amendment to Zoning Map – EPC (Form Z)
	<input type="checkbox"/> Wireless Telecommunications Facility Waiver (Form W2)	<input type="checkbox"/> Amendment to Zoning Map – Council (Form Z)
		Appeals
		<input type="checkbox"/> Decision by EPC, LC, ZHE, or City Staff (Form A)

APPLICATION INFORMATION

Applicant: GPD Group on behalf of Tesla, Inc.		Phone: 330-572-3575
Address: 520 South Main Street		Email: gpdchargepermits@gpdgroup.com
City: Akron	State: OH	Zip: 44311
Professional/Agent (if any): Ian Russell		Phone: 330-572-3575
Address: 520 S. Main Street		Email: gpdchargepermits@gpdgroup.com
City: Akron	State: OH	Zip: 44311
Proprietary Interest in Site: Authorized Agent		List all owners: ABQ Uptown, LLC.

BRIEF DESCRIPTION OF REQUEST

Request for minor administrative site plan amendment for Tesla electric vehicle charging station in existing parking lot.

SITE INFORMATION (Accuracy of the existing legal description is crucial! Attach a separate sheet if necessary.)

Lot or Tract No.: Tract A-1 Plat of Tract A-1	Block: ABQ Uptown Site	Unit: N/A
Subdivision/Addition:	MRGCD Map No.: N/A	UPC Code: 101905905506030134
Zone Atlas Page(s): H-19-Z	Existing Zoning: MX-H	Proposed Zoning: MX-H
# of Existing Lots: 1	# of Proposed Lots: 1	Total Area of Site (acres): 17.6729

LOCATION OF PROPERTY BY STREETS

Site Address/Street: 2200 Louisiana Blvd. NE	Between: Arvada Ave. NE	and: Indian School Road
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CASE HISTORY (List any current or prior project and case number(s) that may be relevant to your request.)

Signature: <i>Ian Russell</i>	Date: 10/29/2021
Printed Name: Ian Russell	<input type="checkbox"/> Applicant or <input checked="" type="checkbox"/> Agent

FOR OFFICIAL USE ONLY

Case Numbers	Action	Fees	Case Numbers	Action	Fees
SI-2021-01835	AA				

Meeting/Hearing Date:	Fee Total:
Staff Signature:	Date:
	Project # PR-2021-005575

FORM P3: ADMINISTRATIVE DECISIONS AND MINOR AMENDMENTS

A single PDF file of the complete application including all plans and documents being submitted must be emailed to PLNDRS@cabq.gov prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided on a CD.

INFORMATION REQUIRED FOR ALL ADMINISTRATIVE DECISIONS OR AMENDMENTS

- Letter of authorization from the property owner if application is submitted by an agent
- Zone Atlas map with the entire site clearly outlined and labeled

ARCHEOLOGICAL CERTIFICATE

- Archaeological Compliance Documentation Form with property information section completed
- Only the information above is required unless the City Archaeologist determines that the application does not qualify for a Certificate of No Effect, in which case a treatment plan prepared by a qualified archaeologist that adequately mitigates any archeological impacts of the proposed development must be submitted and reviewed for a Certificate of Approval per the criteria in IDO Section 14-16-6-5(A)(3)(b)

MINOR AMENDMENT TO SITE PLAN – ADMIN, EPC, or DRB

- Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-4(Y)(2)
- The approved Site Plan being amended
- Copy of the Official Notice of Decision associated with the prior approval
- The proposed Site Plan, with changes circled and noted
Refer to the Site Plan Checklist for information needed on the proposed Site Plan.
- Completed Site & Building Design Considerations Form in accordance with IDO Section 5-2(D) for new commercial and multifamily development except if the development is industrial or the multifamily is less than 25 units

Minor Amendments must be within the thresholds established in IDO TABLE 6-4-4. Any amendment beyond these thresholds is considered a Major Amendment and must be processed through the original decision-making body for the request.

MINOR AMENDMENT TO SITE DEVELOPMENT PLAN APPROVED PRIOR TO THE EFFECTIVE DATE OF THE IDO

- Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-4(Z)(1)(a)
- The approved Site Development Plan being amended
- Copy of the Official Notice of Decision associated with the prior approval
- The proposed Site Development Plan, with changes circled and noted
Refer to the Site Plan Checklist for information needed on the proposed Site Plan.

Completed Site & Building Design Considerations Form in accordance with IDO Section 5-2(D) for new commercial and multifamily development except if the development is industrial or the multifamily is less than 25 units

Minor Amendments must be within the thresholds established in IDO TABLE 6-4-4. Any amendment beyond these thresholds is considered a Major Amendment and must be processed through the original decision-making body for the request.

ACCELERATED EXPIRATION SITE PLAN

- Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-4(X)(2)(c)
- Site Plan to be Expired

ALTERNATIVE SIGNAGE PLAN


- Proposed Alternative Signage Plan compliant with IDO Section 14-16-5-12(F)(5)
- Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-6-5(C)(3)(b)
- Required notices with content per IDO Section 14-16-6-4(K)
 - Office of Neighborhood Coordination notice inquiry response and proof of emailed notice to affected Neighborhood Association representatives
 - Sign Posting Agreement

ALTERNATIVE LANDSCAPE PLAN

- Justification letter describing, explaining, and justifying the request per the criteria in IDO Section 14-16-5-6(C)(16)
- Landscape Plan

I, the applicant or agent, acknowledge that if any required information is not submitted with this application, the application will not be scheduled for a public meeting or hearing, if required, or otherwise processed until it is complete.

Signature: <i>Ian Russell</i>	Date: 10/29/2021
Printed Name: Ian Russell	<input type="checkbox"/> Applicant or <input checked="" type="checkbox"/> Agent

FOR OFFICIAL USE ONLY	
Project Number:	Case Numbers
PR-2021-005575	SI-2021-01835
	-
	-
Staff Signature:	
Date:	

LETTER OF AUTHORIZATION

APPLICATION FOR ZONING/USE/BUILDING PERMITS

ABQ UPTOWN, LLC, a Delaware limited liability company, owner of the below described property ("Owner"), does hereby authorize Tesla Inc. ("Tesla") and/or Glaus, Pyle, Schomer, Burns & DeHaven, Inc ("GPD") and their respective employees, agents and contractors, as Owner's agent for a period of ninety (90) days following the date of this Letter of Authorization, for the sole purpose of filing and completing any forms or applications for land use and permitting processes that are necessary to ensure its ability to use the leased property for the purpose of constructing a charging facility for electric vehicles, including charging posts and related equipment on the property as required for the electric vehicle charging facility.

We understand that any such application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by Tesla and/or GPD only of conditions related to Tesla's and/or GPD's equipment installation, provided that any such conditions of approval or modification will be the sole responsibility of Tesla and/or GPD.

The above authorization does not permit Tesla and/or GPD to modify or alter any existing permit(s) and/or zoning or land-use conditions or impose any additional conditions unrelated to Tesla's and/or GPD's installation of an electric vehicle charging facility without the prior written approval of Owner.

Tesla and/or GPD will be responsible for all costs, fees and expenses incurred in securing any required approvals and satisfying any conditions thereto.

Tesla Site Name: **ABQ Uptown**

Property Located at: **Indian School Rd. and Louisiana Blvd., Albuquerque, New Mexico**

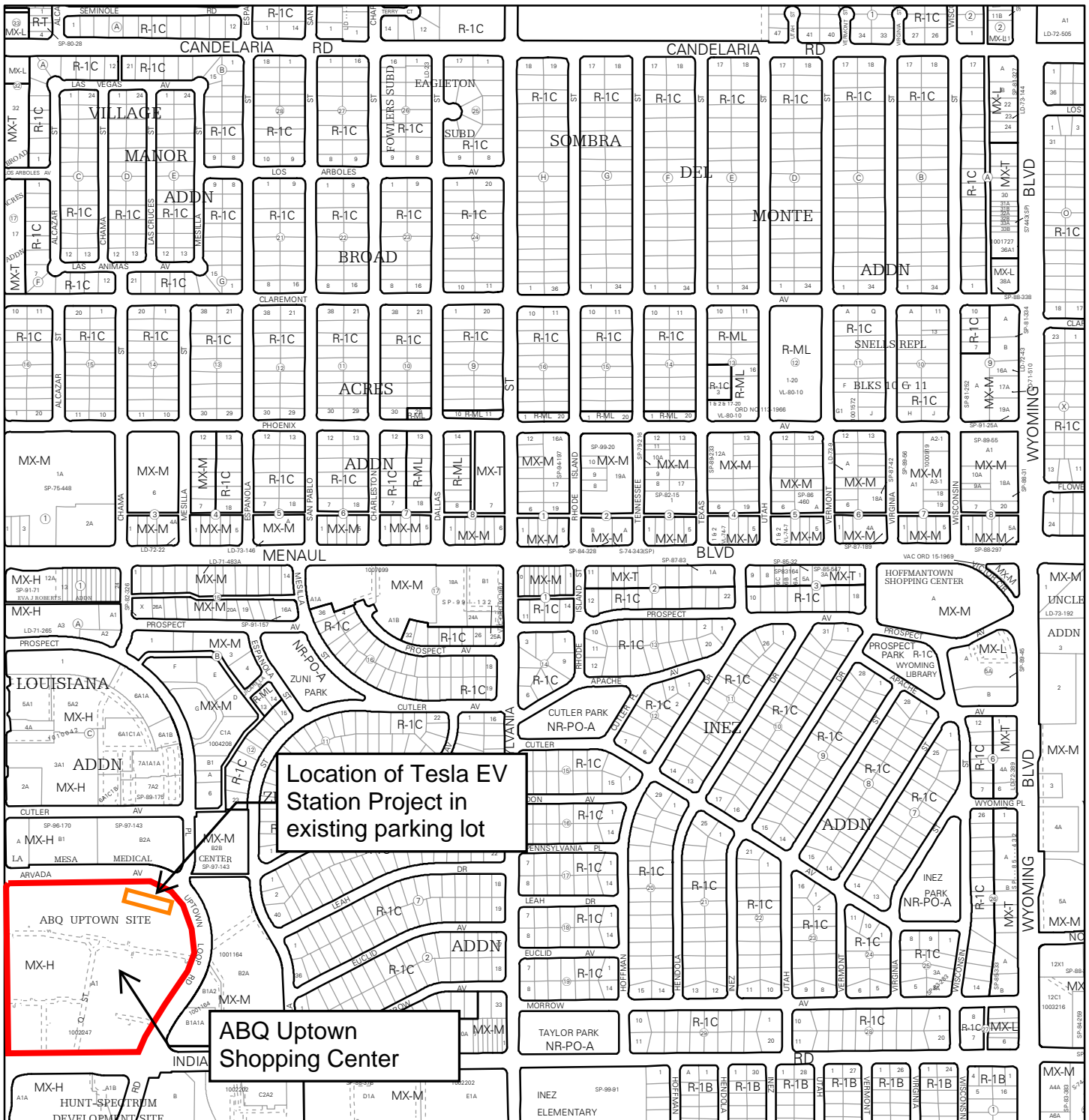
ABQ UPTOWN, LLC, a Delaware limited liability company

By: 

Printed: Dillon Francois

Title: General Manager

Date: 10/27/2021



For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>

IDO Zone Atlas May 2018

IDO Zoning information as of May 17, 2018
The Zone Districts and Overlay Zones
are established by the
Integrated Development Ordinance (IDO).

Zone Atlas Page:
H-19-Z

- Easement
- Petroglyph National Monument
- Areas Outside of City Limits
- Airport Protection Overlay (APO) Zone
- Character Protection Overlay (CPO) Zone
- Historic Protection Overlay (HPO) Zone
- View Protection Overlay (VPO) Zone

- Escarpment

Gray Shading
Represents Area Outside
of the City Limits

Feet
0 250 500 1,000

TESLA

SUPERCHARGER NETWORK



Justification Letter Tesla Supercharger Station Albuquerque, NM

Project Contact

Namiq Ahmadov
Tesla Installation Program Manager
nahmadov@tesla.com
(443)540-7273

Permit Coordinator

Ian Russell
GPD Planning Specialist
gpdchargepermits@gpdgroup.com
(330)-572-3575

Statement of Proposal

Tesla, Inc. (Tesla) is requesting a minor administrative site plan amendment for the proposed installation of an electric vehicle charging station on land zoned as Mixed-Use High Intensity (MX-H). The use is in conformance with all required standards and criteria of the local code. This project will not have an adverse impact on the surrounding area as detailed in the below narrative.



At A Glance: Albuquerque, NM Supercharger Installation	
Location	2200 Louisiana Blvd NE, Albuquerque, NM 87110
Land Owner	Dillon Francois, General Manager – ABQ Uptown, LLC.
Utility Service Territory	PNM
# of Dedicated Charging Stalls	16 Present, 4 Future
# of Enabled Charging Stalls	0

Existing Conditions

Location and Access

Located in the northeastern parking lot of the ABQ Uptown development along Uptown Loop NE, this project involves the installation of a new electric vehicle charging station that will serve the Tesla community travelling through Albuquerque or along the Coronado Freeway. The site is located within the MX-H zone. The project address is 2200 Louisiana Blvd. NE (Lat. 35.104239, Long. -106.566). The listed UPC number for the property is 101905905506030134. This site is accessed via the existing entrance along Arvada Ave. NE to the North and the existing shopping center drive to the South.

Property Owner

The site is owned by ABQ Uptown, LLC.

Zoning

All parcels associated with the Project are zoned as MX-H, Mixed-Use High Intensity , by the City of Albuquerque. This use is consistent with the zone’s permitted uses as outlined in the Albuquerque Integrated Development Ordinance.

Tesla will comply with all local, state, and federal requirements in the permitting required for this project.

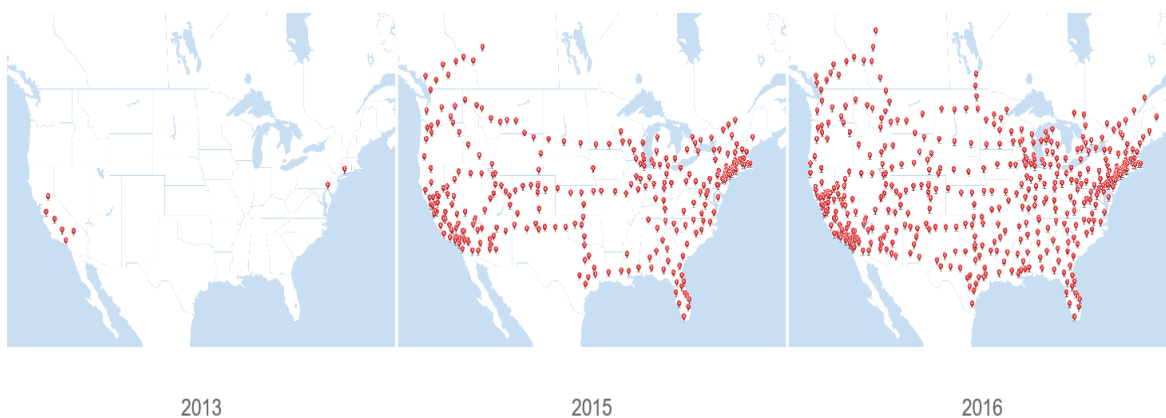
Current Use of Land and Adjacent Areas

The location is an existing parking lot for the adjacent ABQ Uptown shopping center. The surrounding area is home to the many shops and offerings of the ABQ Uptown center that will be utilized by Tesla owners while charging. This area offers an excellent location for Tesla’s supercharging infrastructure due to its proximity to the Coronado Freeway and its central location within the City of Albuquerque. This project will result in a premium charging experience for customers as well as bolster the growing electric vehicle charging infrastructure of the Albuquerque area.

Supercharger Basics

The Supercharger network is our answer to long distance electric vehicle travel. Superchargers enable travel to popular destinations and charge Model S, Model 3, Model Y and Model X in minutes, giving owners the confidence to travel near or far. Tesla Superchargers are 480-volt fast-charging stations built to allow quick charging (45-90 minutes) for Tesla vehicles. This type of charging infrastructure allows for

SUPERCHARGER NETWORK | NORTH AMERICA



longer trips for Tesla owners. As electric vehicles become more popular amongst drivers, there has been an increased demand for charging infrastructure.

Project Overview

This is an ideal location for Supercharger due to its location near the Coronado Freeway and central Albuquerque. This site will run 24 hours a day, 7 days a week.

When exploring potential Supercharger locations, Tesla searches for locations that offer amenities matching the needs of our owners and their expected dwell-time. The goal is to provide a safe and enjoyable environment while providing sufficient utility infrastructure to accommodate the load requirements of the station.

Location

Within the shopping center, Tesla has specifically chosen stalls located in a section of the parking lot that contains what are to be considered less-prime parking stalls as they are located further from the facilities that serve this area. This ensures that the existing clientel base does not experience any adverse impacts from the installation and disincentivizes non-electric vehicles from parking in the Tesla Supercharger stalls. Tesla has worked with the land owner to find the best installation location for the shopping center while still providing a premium charging experience for electric vehicle owners.

Interconnection

The Project is located in PNM's service territory. The electricity required for this project will be supplied from a newly installed transformer located on site as shown in the site design.

To accommodate 20 Charging Posts, Tesla will install 3 present and 1 future PSU Supercharger Cabinets as well as one freestanding V3 Supercharger cabinet and 4 freestanding V3 charging stations. Electrical details for the charging units can be found in the electrical portion of the project plans. The installation will also include 1 utility transformer.

Justification

The Tesla Supercharger installation will add to the overall stable and desirable environment on site and the proposed installation maintains consistency with the stated objectives of the Albuquerque Integrated Development Ordinance. The intended use of this site is for Tesla electric vehicles to charge quickly while traveling, while also providing Tesla users with an ample number of amenities to enjoy while charging.

This project is being coordinated with PNM and will include the installation of a new utility transformer on site. The only public utilities needed to support this project are electrical through PNM.

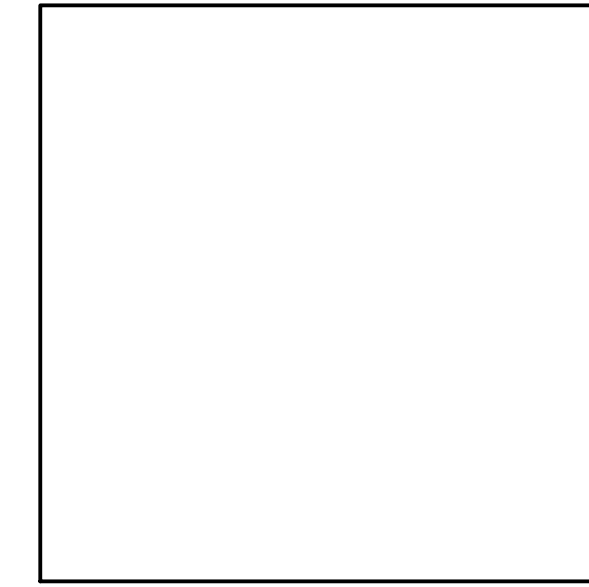
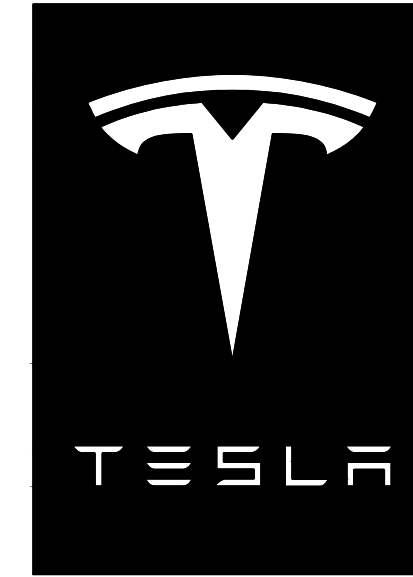
This installation is located in the existing parking lot and will not have adverse impacts on surrounding properties. The surrounding properties to the North, West and South are all defined as Mixed-Use High Intensity (MX-H) by the IDO while the property to the East is defined as Mixed-Use Moderate Intensity (MX-M).

Justification as Minor Amendment to Site Plan

The proposed Tesla installation meets all of the criteria that defines a minor administrative amendment per the requirements listed in IDO Section 14-16-6-4(Z)(1)(a). This section applies as the site plan to be amended was approved prior to the implementation of the updated IDO. The amendment is necessary due to unforeseen user requirements that, at the time of the original site plan approval, could not have anticipated the need for electric vehicle charging within on-site parking. Furthermore, the addition of EV charging on site will not impact the requirements in place at the time of initial site plan approval. The proposed installation is very small in scope with the addition of only 689 square feet of impervious surface in the form of foundations for the charging posts and equipment which is well under the thresholds established by the IDO. The location of the charging station is adjacent to other mixed-use properties and as such will not affect property defined as residential by the IDO nor will it affect any residential dwelling units on site. The installation of the equipment will have no impact on the existing parking layout on site, will not result in the reduction of major landscaping, nor will it impact or adjust building design standards for the area. Finally, the project will have minimal impact on traffic as the site is already used for parking for the shopping center. There will be no creation of, or changes made to, the existing traffic circulation pattern or parking lot. All the charging stations will be located so as to maintain the existing layout on-site. The overall impact of the project to the existing site is minimal and will seek to offer an exciting amenity for Tesla drivers in and around the Albuquerque area.

TESLA

CHARGING STATION
 2200 LOUISIANA BLVD NE (TESLA STATION)
 ALBUQUERQUE, NM 87110

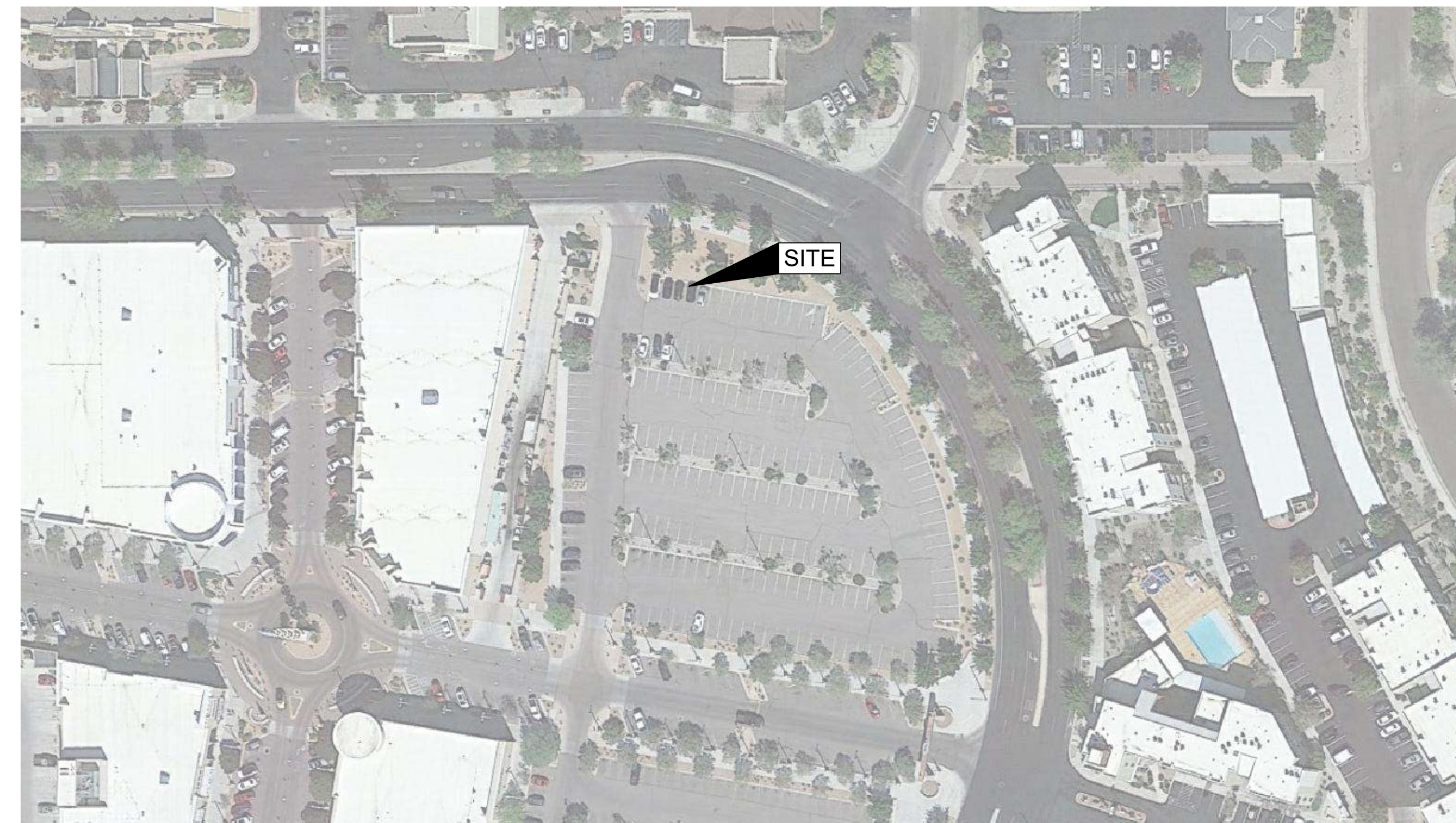


SITE LAYOUT

NOTE:
 PROPERTY LINE AND RIGHT-OF-WAY
 BOUNDARIES ARE SHOWN FOR
 REFERENCE ONLY. REFER TO SURVEY
 BY OTHERS FOR EXACT LOCATION.



AERIAL MAP



MAP DATA ©2021 GOOGLE

REV.	DATE	DESCRIPTION
A	08/30/21	ISSUED FOR 90% REVIEW
B	10/14/21	RE-ISSUED FOR 90% REVIEW
C	10/18/21	SIGNED AND SEALED



2200 LOUISIANA BLVD NE
 (TESLA STATION)
 ALBUQUERQUE, NM 87110

TITLE SHEET &
 PROJECT DATA

SITE INFORMATION

ADDRESS:
 2200 LOUISIANA BLVD NE
 (TESLA STATION)
 ALBUQUERQUE, NM 87110

POWER COMPANY:
 PNM
 CONTACT: DAVID MARTINEZ
 (505) 241-0502

PROPERTY OWNER:
 T.B.D.
 CONTACT: T.B.D.
 T.B.D.

EQUIPMENT SUPPLIER:
 TESLA, INC.
 3500 DEER CREEK ROAD
 PALO ALTO, CA 94304
 (650) 681-5000

LATITUDE (NAVD88)
 N 35°6'15.26"
 35.104239°

LONGITUDE (NAVD88)
 W 106°33'57.60"
 -106.566°

PERMITTING JURISDICTION:
 CITY OF ALBUQUERQUE
 600 2ND NW
 ALBUQUERQUE, NM 87102
 CONTACT: RICK DE REYES
 (505) 924-3860

COUNTY:
 BERNALILLO

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
 2015 NEW MEXICO COMMERCIAL BUILDING CODE
 2017 NEW MEXICO ELECTRICAL CODE

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

DESIGN LOADING

SNOW LOADS:
 GROUND SNOW LOAD (P_g) 10 PSF

LATERAL LOAD DESIGN DATA:
 WIND DESIGN DATA (ASCE 7-10):

BASIC WIND SPEED (V_{ult}): 115 MPH
 BASIC WIND SPEED (V_{std}): 89 MPH
 IMPORTANCE FACTOR: 1.0
 EXPOSURE CATEGORY: C

SEISMIC DESIGN DATA (ASCE 7-10):
 1.0 SEISMIC IMPORTANCE FACTOR (I)
 RISK CATEGORY: II
 SITE CLASS (ASSUMED): D
 MAPPED SPECTRAL RESPONSE
 SHORT PERIODS (S_s): 0.439
 1 SEC. PERIODS (S): 0.133

SPECTRAL RESPONSE COEFF.
 SHORT PERIODS (S_{s1}): 0.44
 1 SEC. PERIODS (S_{s1}): 0.201

SEISMIC DESIGN CATEGORY: D

FROST DEPTH: 20"

DRAWING INDEX

	TITLE SHEET & PROJECT DATA
CIVIL	SHEET TITLE
GN-1	GENERAL NOTES
-	TOPOGRAPHIC SURVEY
C-1	DEMOLITION PLAN
C-2A	SITE PLAN
C-2B	GRADING PLAN
C-3	CIVIL DETAILS
C-4	CIVIL DETAILS
C-5	VEHICLE TRACKING PLAN
ELECTRICAL	SHEET TITLE
EN-1	ELECTRICAL GENERAL NOTES
E-1	ELECTRICAL EQUIPMENT PLAN
E-2	ONE-LINE DIAGRAM & PANEL SCHEDULE
E-3	ELECTRICAL DETAILS

REFERENCED DOCUMENTS
 SUPERCHARGER DATASHEET
 SUPERCHARGER INSTALLATION MANUAL
 SUPERCHARGER POST INSTALLATION MANUAL
 UTILITY DESIGN DOCUMENTS
 ELECTRICAL EQUIPMENT CUTSHEETS
 PSU DATASHEET AND MANUALS

PROJECT DESCRIPTION

- INSTALL (3) PRE-ASSEMBLED SUPERCHARGING UNITS (PSU) WITH (3) V3 SUPERCHARGER CABINETS AND (12) V3 CHARGING POSTS
- INSTALL (1) SWITCHGEAR ASSEMBLY W/ INTEGRATED MASTER CONTROLLER
- INSTALL (1) UTILITY TRANSFORMER
- INSTALL (1) FUTURE PRE-ASSEMBLED SUPERCHARGING UNITS (PSU) WITH (1) V3 SUPERCHARGER CABINETS AND (4) V3 CHARGING POSTS

FLOOD HAZARD AREA NOTE

THE SITE IS LOCATED IN FLOOD ZONE "X" (AREA OF MINIMAL FLOOD HAZARD) PER FLOOD INSURANCE MAP NUMBER 35001C0352H, EFFECTIVE DATE - 08/16/2012.

BEFORE SCALING & PLAN REPRODUCTION WARNING

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

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

JOB NO.
2021095.64

T-1

GOVERNING BUILDING CODE

GOVERNING BUILDING CODE: 2015 NEW MEXICO COMMERCIAL BUILDING CODE
GENERAL CONSTRUCTION NOTES

- 1. ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND ANY OTHER REGULATING AUTHORITIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
2. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FROM TESLA OF ANY DISCREPANCIES...

- 25. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
26. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION...

GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION PER THE TABLE BELOW:

Table with 2 columns: SIEVE SIZE, TOTAL PERCENT PASSING. Rows include 1 1/2 INCH (37.5 MM), 1 INCH (25.0 MM), 3/4 INCH (19.00 MM), 3/8 INCH (9.5 MM), NO. 4 (4.75 MM), NO. 30 (0.600 MM), NO. 200 (0.75 MM).

- 29. GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
30. UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES...

GENERAL FOUNDATION NOTES

- 1. 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...
2. ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC MATTER...

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.
2. 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...

- 7. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A1064 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.
8. NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.
9. PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.
10. PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.
11. REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 2500 PSI CONCRETE

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

- 1. CONCRETE FOUNDATIONS SHOULD BEAR DIRECTLY ON A PROPERLY COMPACTED FREE-DRAINING GRANULAR FILL CONSISTING OF NO. 57 STONE OR AN APPROVED EQUIVALENT.
2. GRANULAR FILL SHOULD EXTEND VERTICALLY TO THE MINIMUM RECOMMENDED REGIONAL FROST DEPTH AND LATERSL 2/3D FROM THE FOUNDATION PERIMETER (EXCLUDING SIDE OF PERIMETER ADJACENT TO CURB)...

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

- 1. CONCRETE FOUNDATIONS SHOULD BE SUPPORTED ON A 6 INCH COMPACTED LAYER OF APPROVED FREE-DRAINING GRANULAR MATERIAL.
2. APPROVED MATERIAL SHOULD BE COMPACTED OVER THE FULL WIDTH OF THE INFILL AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES.

STRUCTURAL STEEL

MATERIAL PROPERTIES:

PLATE: ASTM A36 UNO
PIPE: ASTM A53, TYPE E OR S, GRADE B (Fy = 35 KSI)
TUBE: ASTM A1085 GRADE A (Fy = 50 KSI)

- 1. DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2010 AISC (360-10) SPECIFICATIONS.
2. ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS.
3. FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.

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...
2. THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ADJUTTING PROPERTIES AND INTERSECTING STREET AT ALL TIMES DURING THE CONSTRUCTION OF THE IMPROVEMENTS ANTICIPATED...

SPECIAL INSPECTIONS

- 1. 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.

PAVEMENT MARKING NOTES

- 1. ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL.
2. MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:
3. PAVEMENT MARKINGS PAINT SHALL BE WATER BASE FAST DRYING 100% ACRYLIC TYPE: WATER BASE TO MEET FEDERAL SPECIFICATION TTP-01952B...

EXISTINGSLABREINFORCEMENTINVESTIGATION/X-RAY

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

LANDSCAPE/IRRIGATION NOTES

- 1. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR MULCHED SHALL BE GRADED TO MATCH EXISTING CONDITIONS.
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 X" OF XX 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 THEN IT SHALL BE MODIFIED TO PROVIDE 100% COVERAGE OF THE LANDSCAPE AREA...

EXISTING LEGEND table with columns for symbol, description, and symbol. Includes entries for P/L, R/W, C/L, WATER MAIN, WATER LINE, IRRIGATION LINE, GAS LINE, STORM LINE, SANITARY LINE, OVERHEAD ELECTRIC, ELECTRIC MAIN, ELECTRIC LINE, LIGHT POLE CONDUIT, EXISTING BUILDING, LIGHT POLE, POWER POLE, POWER/TELEPHONE POLE, LIGHT/TELEPHONE POLE, TELEPHONE POLE, POWER/LIGHT POLE, POWER/LIGHT/TELE POLE, UNKNOWN POLE, ELECTRIC METER, ELECTRIC MANHOLE, TRANSFORMER, ELECTRIC PULLBOX, CATCH BASIN, CURB INLET, STORM MANHOLE, SANITARY MANHOLE, UNKNOWN MANHOLE, SANITARY VALVE, SEPTIC TANK, FIRE HYDRANT, WATER METER, WATER VALVE, SPRINKLER HEAD, WATER MANHOLE, GAS VALVE, GAS METER, GAS MANHOLE, GAS SERVICE METER, TELEPHONE PEDESTAL, TELEPHONE MANHOLE, CABLE TV PEDESTAL, BOLLARD, SIGN, LUMINESCENT SIGN, CLEANOUT, YARD LIGHT, FLAG POLE, GAS PUMP, MAIL BOX.

GPD GROUP Professional Corporation
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Akron, OH 44311
330.572.2100 Fax 330.572.2101
TESLA logo
3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 991-6000

Table with columns: REV., DATE, DESCRIPTION. Rows A, B, C with dates 08/30/21, 10/14/21, 10/18/21 and descriptions: ISSUED FOR 90% REVIEW, RE-ISSUED FOR 90% REVIEW, SIGNED AND SEALED.

Professional Engineer seal for LEONARDO A. SERRA, NEW MEXICO, No. 24262, dated 10/19/2021.

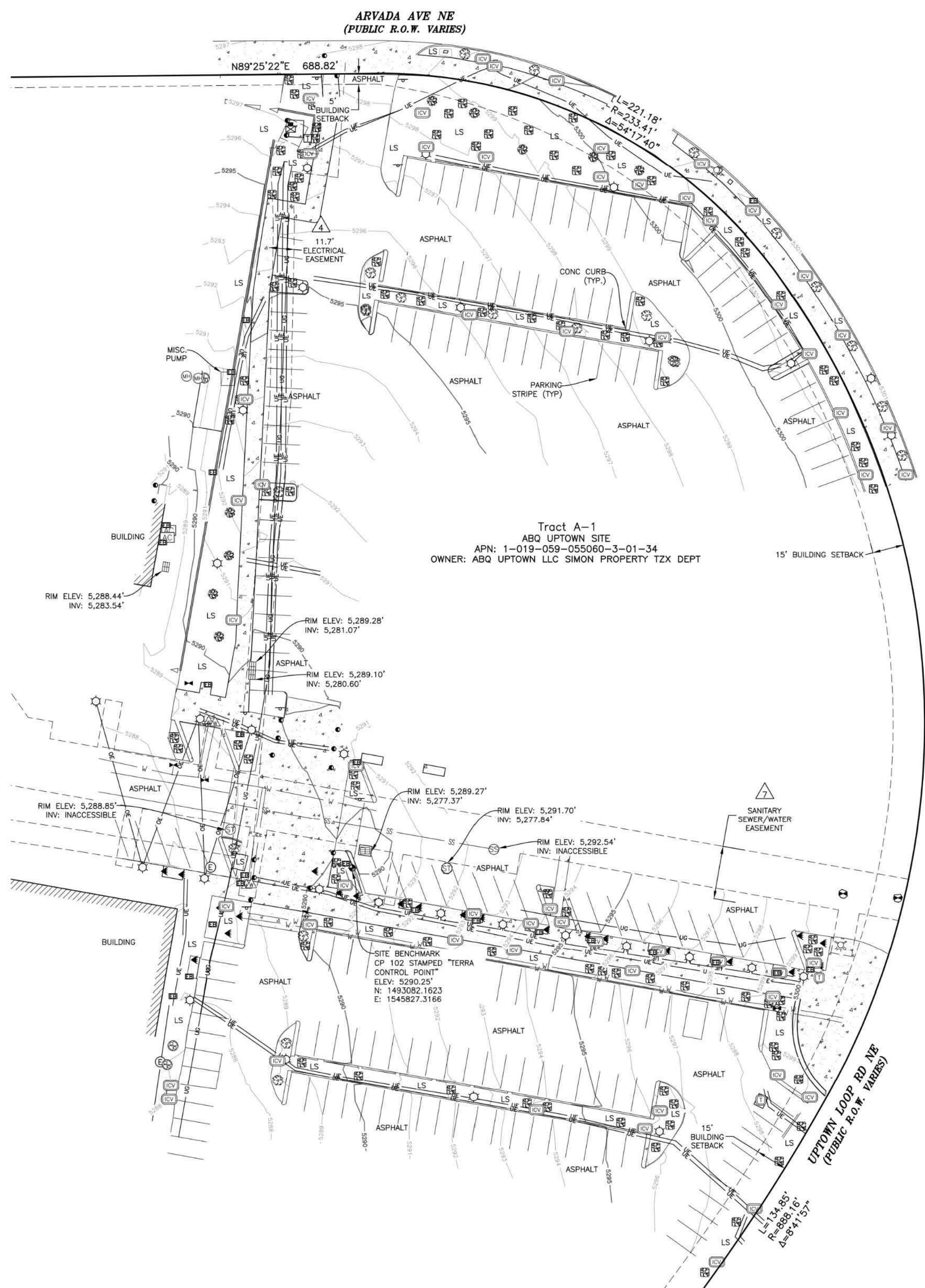
2200 LOUISIANA BLVD NE (TESLA STATION) ALBUQUERQUE, NM 87110
GENERAL NOTES

Table with columns: ISSUED FOR, PERMIT, BID, CONSTRUCTION, RECORD. Values: xxx, xxx, xxx, xxx.

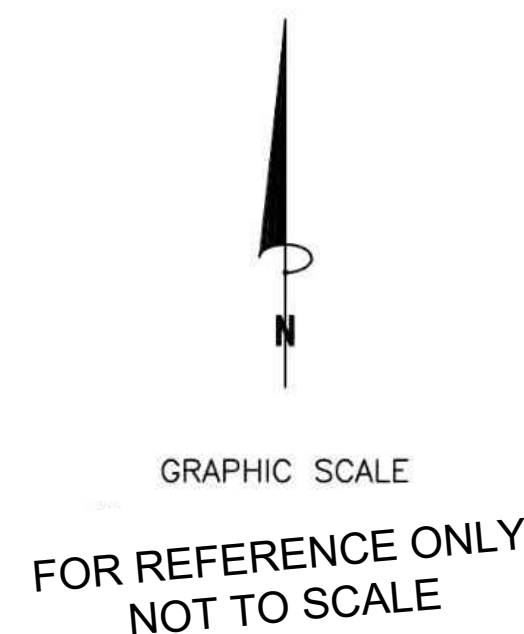
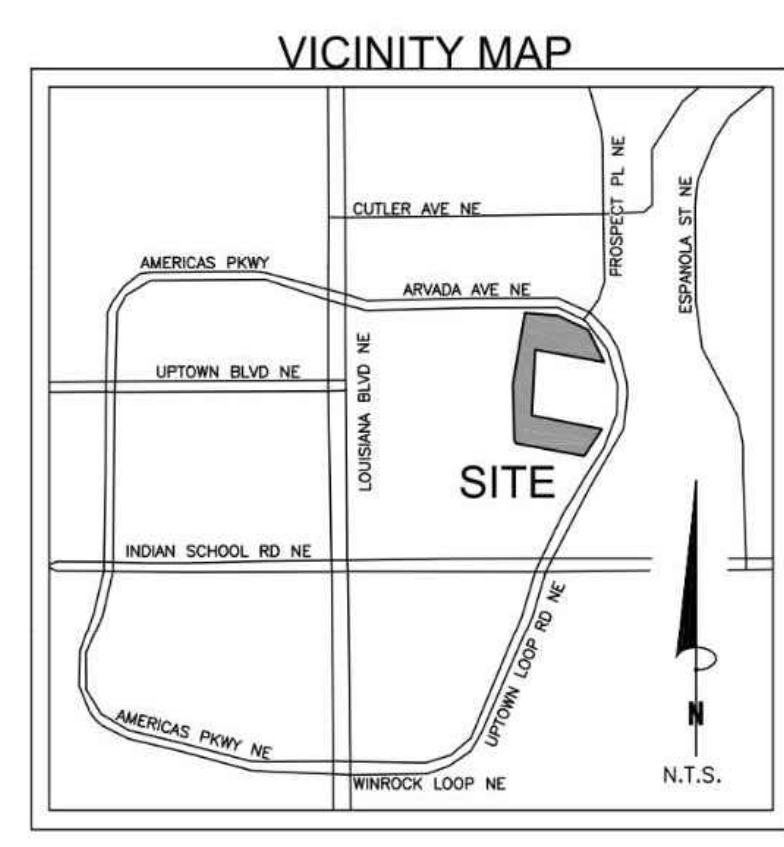
Table with columns: INSTALL MANAGER, DESIGNER. Values: NAMIQ AHMADOV, KSB.

JOB NO. 2021095.64

GN-1



Tract A-1
 ABQ UPTOWN SITE
 APN: 1-019-059-055060-3-01-34
 OWNER: ABQ UPTOWN LLC SIMON PROPERTY TZX DEPT



LEGEND

⊕	SITE BENCHMARK
⊙	SANITARY MANHOLE
⊕	SANITARY CLEANOUT
⊕	STORM MANHOLE
▭	STORM INLET (RECTANGLE)
⊕	FIRE HYDRANT
⊕	WATER VALVE
⊕	IRRIGATION CONTROL VALVE
⊕	WATER METER
⊕	LIGHT POLE
⊕	ELECTRIC MANHOLE
⊕	ELECTRIC TRANSFORMER
⊕	ELECTRIC BOX
⊕	LANDSCAPE LIGHT
⊕	TELEPHONE PEDESTAL
⊕	A/C UNIT
⊕	UNKNOWN MANHOLE
⊕	TRAFFIC SIGNAL CONTROL BOX
⊕	CONIFEROUS TREE
⊕	DECIDUOUS TREE
⊕	SHRUB
LS	LANDSCAPED AREA
●	BOLLARD
+	SIGN
SS	SANITARY LINE (UNDERGROUND)
WL	WATER LINE (UNDERGROUND)
UG	GAS LINE (UNDERGROUND)
UE	ELECTRIC LINE (UNDERGROUND)
OE	ELECTRIC LINE (OVERHEAD)
CA	CONCRETE AREA
△	EXCEPTION NUMBER

LEGAL DESCRIPTION:

Tract A-1 as shown on plat of ABQ Uptown Site filed in map book 2006C, page 20, on 02/24/2006, in the office of the county clerk of Bernalillo, New Mexico.
 Per special warranty deed recorded in document number 2011065463, on 07/09/2001, in the office of the county clerk of Bernalillo, New Mexico.

SCHEDULE B2 EXCEPTIONS:

This is not a boundary survey and is not sufficient for the removal of survey exceptions from the owners title policy or the accurate determination of the effect of title documents listed in the schedule B2 exceptions. It does not reveal encroachments, overlaps, conflicts in boundary line, shortages in areas, accurate locations of easements or other matters which would be disclosed by an accurate boundary survey.

- Item No
1. Revocable Permit by City of Albuquerque to Hunt Uptown, LLC, Dated June 01, 2010, Recorded June 02, 2010, in Instrument No: 2010049778.
 Notes: Building maintenance permit; Please see Assignment in Instrument No: 201102465.
 -IS NOT LOCATED ON THE SURVEY AREA.
 2. Easement by Hunt Uptown, LLC to Public Service Company of New Mexico, Dated February 12, 2010, Recorded March 05, 2010, in Instrument No: 2010018796.
 Notes: Utility Easement
 -IS NOT LOCATED ON THE SURVEY AREA.
 3. Easement by Hunt Uptown, LLC to New Mexico Gas Company, Recorded March 02, 2010, in Instrument No: 2010017815.
 Notes: Utility Easement
 -IS NOT LOCATED ON THE SURVEY AREA.
 4. Public Service Company of New Mexico by Hunt Uptown, LLC to Public Service Company of New Mexico and Qwest Corporation, Dated January 10, 2007, Recorded January 30, 2007, in Instrument No: 2007015842.
 Notes: Utility Easement; Please see quitclaims in Instrument No: 2010020616 and Instrument No: 2010018635.
 -IS LOCATED ON THE SURVEY AREA, APPROXIMATE LOCATION SHOWN HEREON.
 5. Declaration of Covenants, Conditions, Restrictions and Easements and Parcel Declaration for ABQ Uptown by Hunt Uptown, LLC Dated July 27, 2005, Recorded July 27, 2005, in Instrument No: 2005107652.
 Notes: Easements
 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
 6. Permanent Easement by Hunt Uptown, LLC to City of Albuquerque, Dated June 02, 2005, Recorded June 13, 2005, in instrument No: 2005083915.
 Notes: Sanitary Sewer Easement
 -IS NOT LOCATED ON THE SURVEY AREA.
 7. Plat of Tract A-1, ABQ Uptown Site Recorded January 24, 2006, in Book 2006C, Page 20.
 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE AND SHOWN HERON.

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 orientation 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. This site was located by standard RF methods and GPR.
3. FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMeTte published 06/15/2021, referencing Flood Insurance Rate Map, Map Number 35001C0352H effective date 08/16/2012, indicates this parcel of land is located in Zone X (Area of minimal flood hazard).
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 Search Report, prepared by US Title Solutions with an order number of UST68874, dated 07/12/2021.
5. Elevations are based on NAVD 88 datum.
6. PROJECT BENCHMARK: City of Albuquerque survey control station "20-H18" being 3 1/4 inch aluminum disc set flush with the top of the curb located at the intersection of Louisiana Boulevard and Uptown Boulevard NE in the median on the south side of the intersection. Elevation: 5283.22' (NAVD 88)
 TEMPORARY BENCHMARK: Terra control point "CP 102" being a 5/8 inch rebar with a plastic cap stamped "Terra Control Point". Elevation: 5920.25' (NAVD 88)
7. BASIS OF BEARINGS: Bearings are relative to NAD83, New Mexico State Plane Coordinate System, Central Zone (3002).
8. Field work for this survey was completed on June 11, 2021.
9. The owner names and tax parcel data shown hereon are based upon the public records available at the original date of this survey. Current ownership and tax parcel data should be verified for accuracy.
10. This site is zoned "MX-H" (Mixed-Use) per City of Albuquerque Planning Department.
 Building Setbacks:
 Front: 5', Side: 5', Rear: 15'
 No zoning information provided by the client. Any Zoning setbacks shown hereon are the interpretation of the surveyor. For clarification of exact zoning designations and setback locations, please, contact the City of Albuquerque Planning and Zoning Department at (505) 924-3860.
11. Topographic survey referenced to NAD 83 New Mexico Central Zone State Plane Coordinates modified to the surface utilizing City of Albuquerque control stations and GNSS RTK methods combined ground to grid factor= 0.999660120866 scaled around CP 100 (N:1493262.3761, E: 1545976.7285)

AREAS OF CONCERN:

No apparent areas of concern.

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 New Mexico 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.



Christopher A. Medina
 New Mexico Professional Land Surveyor No. 15702
 For and on behalf of Clark Land Surveying, Inc.



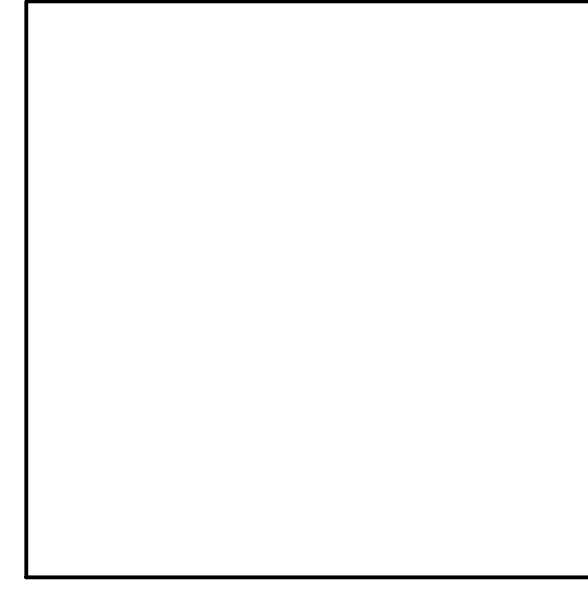
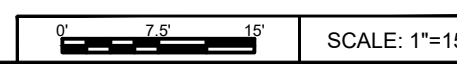
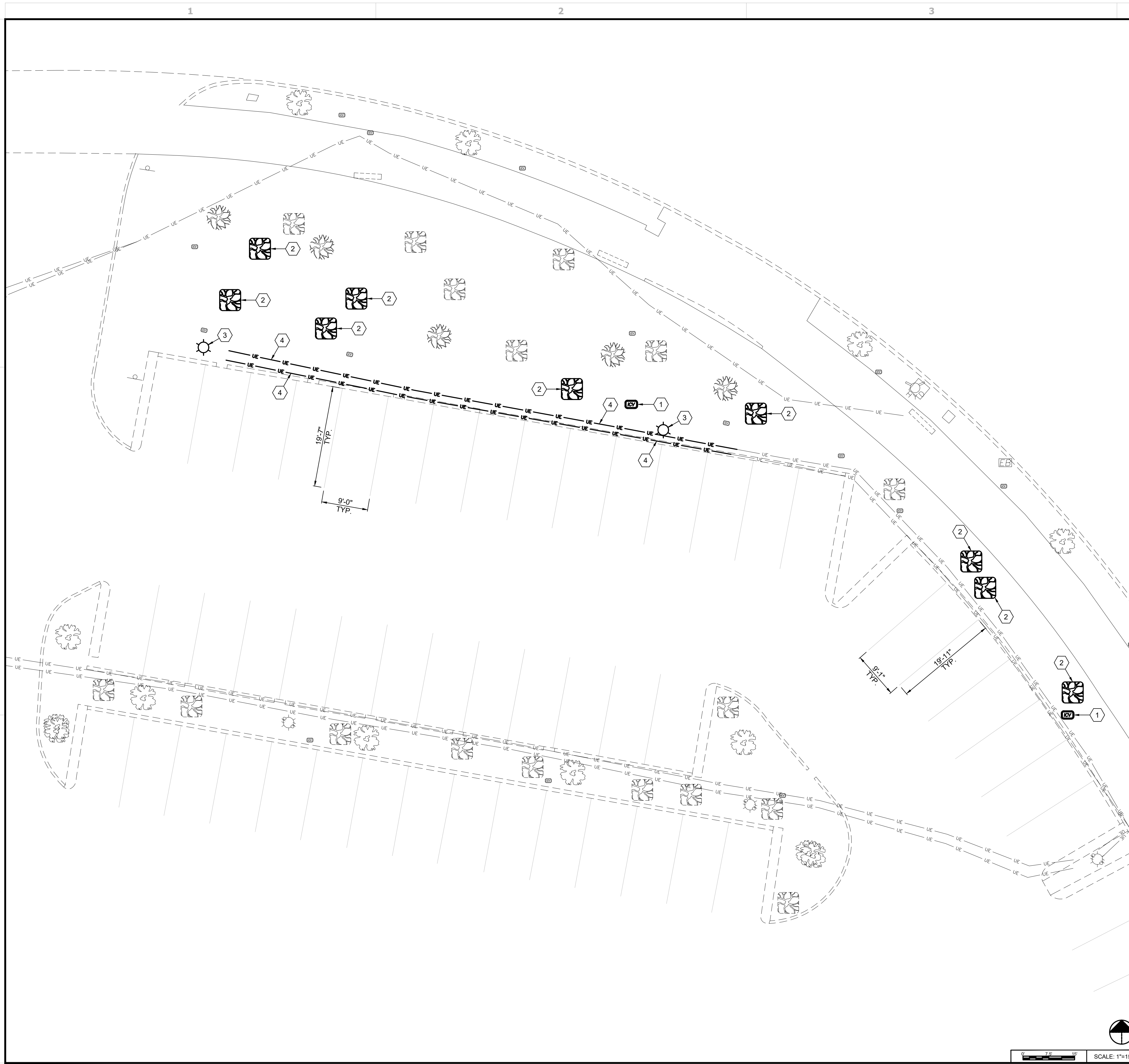
No.	Description	By	Date

SITE NAME:
 Uptown

ENGINEERING DESIGN SURVEY
 A PORTION OF
 TRACT A-1 ABQ UPTOWN SITUATE WITHIN,
 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

Project No. **210823**
 Drawn By: LJV
 Checked By: CAM
 Date: 06/15/2021
 Sheet: 1 of 1

Drawing Name: O:\2021\202109564 - Albuquerque, NM\dwg\202109564 - Albuquerque, NM - CD100.dwg
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DEMOLITION KEYNOTES AND LEGEND (#)

1. EXISTING IRRIGATION CONTROL VALVE TO BE REMOVED.
2. EXISTING LANDSCAPING TO BE REMOVED (SHRUB, PERENNIALS, GROUNDCOVER, ETC.). CONTRACTOR SHALL VERIFY EXACT SIZE AND TYPE IN FIELD.
3. EXISTING LIGHT POLE TO BE RELOCATED BEHIND THE PSU'S, CONTRACTOR SHALL BACKFILL WITH COMPACTED MATERIAL. REFER TO SHEET C-2 FOR PROPOSED LOCATION.
4. EXISTING UNDERGROUND ELECTRIC LINE TO BE RELOCATED, AS NEEDED.

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 TESLA 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.
4. PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY CLARK LAND SURVEYING, INC. DATED 06/15/21 FOR EXACT LOCATION.

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 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

TESLA

3500 DEER CREEK RD
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 (650) 991-6000

REV.	DATE	DESCRIPTION
A	08/30/21	ISSUED FOR 90% REVIEW
B	10/14/21	RE-ISSUED FOR 90% REVIEW
C	10/18/21	SIGNED AND SEALED



2200 LOUISIANA BLVD NE
 (TESLA STATION)
 ALBUQUERQUE, NM 87110

DEMOLITION PLAN

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

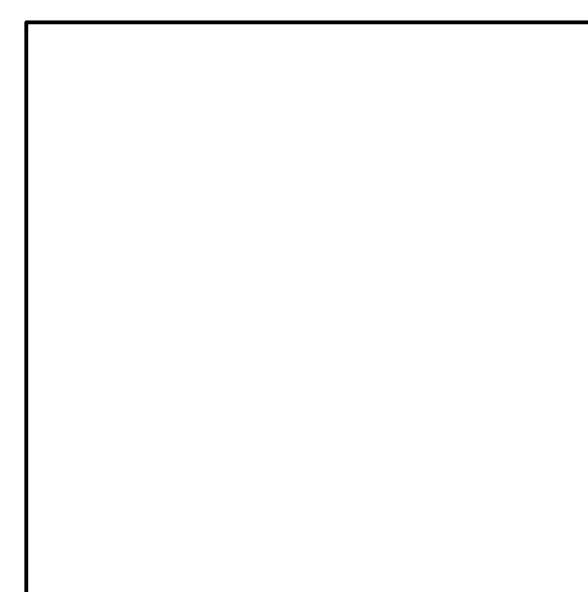
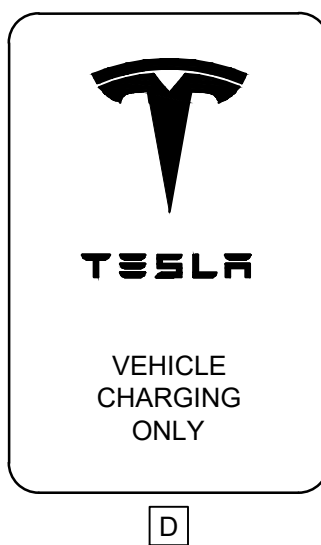
JOB NO.
2021095.64

C-1

CHARGING STALL DETAILS

SIGNAGE SCHEDULE					
CABINET #	POST #	SIGN TYPE	CABINET #	POST #	SIGN TYPE
1	1A	D	4	4A	D
	1B	D		4B	D
	1C	D		4C	D
	1D	D		4D	D
2	2A	D	5	5A	FUTURE
	2B	D		5B	FUTURE
	2C	D		5C	FUTURE
	2D	D		5D	FUTURE
3	3A	D			
	3B	D			
	3C	D			
	3D	D			

PARKING STALL ANALYSIS	
EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	20
PROPOSED TESLA STALLS	20
PROPOSED STANDARD STALLS	0
NET STALL COUNT	+0



CONSTRUCTION KEYNOTES AND LEGEND

- 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.
- PROPOSED EQUIPMENT CLEAR SPACE (TYPICAL).
- PROPOSED ELECTRIC METER MOUNTED TO TRANSFORMER PER ELECTRIC COMPANY SPECIFICATIONS AND DETAILS ON ELECTRICAL SHEETS.
- PROPOSED SERVICE ENTRANCE DISCONNECT MOUNTED ON SIDE OF TESLA CHARGING CABINET (TYP. OF 1). SEE DETAILS ON SHEET C-4.
- PROPOSED TESLA CHARGE POST WITH INDIVIDUAL PRECAST CONCRETE FOUNDATION (TYPICAL OF 4). SEE DETAILS ON SHEET C-3.
- PROPOSED TESLA NON-ILLUMINATED PARKING SIGN (TYPICAL OF 16). SEE DETAILS ON SHEET C-3. SEE CHARGING POST SCHEDULE THIS SHEET FOR SIGN TYPE. WHERE APPLICABLE, CONTRACTOR SHALL MOUNT SIGN TO LIGHT POLE IN LIEU OF POST.
- PROPOSED TESLA CHARGING CABINET (TYPICAL OF 1). SEE DETAILS ON SHEETS C-3 & C-4.
- PROPOSED CONCRETE PAD. SEE DETAIL ON SHEET C-3.
- PROPOSED TESLA PRE-ASSEMBLED SUPERCHARGING UNIT (PSU) CONSISTING OF (1) SERVICE ENTRANCE DISCONNECT, (1) CHARGING CABINET, (4) CHARGE POSTS, AND (4) SIGN POSTS PER PSU, ALL FACTORY INSTALLED ON PRECAST CONCRETE FOUNDATION. TOTAL OF (3) PSU SERVICE ENTRANCE DISCONNECTS, (3) PSUS W/ (1) TOTAL CABINETS AND (12) TOTAL POSTS. SEE CHARGING POST SCHEDULE THIS SHEET FOR SIGN TYPE. SEE ADDITIONAL DETAILS ON SHEET C-4.
- FUTURE TESLA PRE-ASSEMBLED SUPERCHARGING UNIT (PSU) CONSISTING OF (1) SERVICE ENTRANCE DISCONNECT, (1) CHARGING CABINET, (4) CHARGE POSTS, AND (4) SIGN POSTS PER PSU, ALL FACTORY INSTALLED ON PRECAST CONCRETE FOUNDATION. TOTAL OF (1) PSU SERVICE ENTRANCE DISCONNECTS, (1) PSUS W/ (1) TOTAL CABINETS AND (4) TOTAL POSTS. SEE CHARGING POST SCHEDULE THIS SHEET FOR SIGN TYPE. SEE ADDITIONAL DETAILS ON SHEET C-4.
- ALL DISTURBED AREAS SHALL BE SAND UNLESS OTHERWISE NOTED. SEE LANDSCAPE/IRRIGATION NOTES ON SHEET GN-2.
- PROPOSED WHEELSTOP (TYP. OF 15). SEE DETAIL ON SHEET C-3.
- RELOCATED LIGHT POLE (TYP. OF 2). SEE DETAIL ON SHEET C-3. SEE ELECTRICAL DRAWINGS FOR POLE AND FIXTURE SPECIFICATIONS AND WIRING.

RIVER ROCK MULCH AREA; POLYETHYLENE FABRIC SHALL BE LAID UNDER AGGREGATE MULCH, 3/4"-1-1/2" IN SIZE, WASHED AND ROUNDED, SHALL BE INSTALLED WITHIN THE RIVER ROCK MULCH AREA PER THE PLAN. RIVER ROCK MULCH SHALL BE INSTALLED AT 4 INCH DEPTH.

GENERAL SHEET NOTES

- 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 TESLA OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
- APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY OR DESIGN DRAWINGS BY CLARK LAND SURVEYING, INC. DATED 06/15/21 FOR EXACT LOCATION.
- SEE CLARK SURVEY FOR ALL APPLICABLE BENCHMARKS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SLOPES AND GRADES PRIOR TO CONSTRUCTION. FINAL GRADES SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TOWARDS THE NEAREST EXISTING DRAINAGE STRUCTURE AND ENSURE NO PONDING OCCURS ON SITE.

REV.	DATE	DESCRIPTION
A	08/30/21	ISSUED FOR 90% REVIEW
B	10/14/21	RE-ISSUED FOR 90% REVIEW
C	10/18/21	SIGNED AND SEALED



2200 LOUISIANA BLVD NE
(TESLA STATION)
ALBUQUERQUE, NM 87110

SITE PLAN

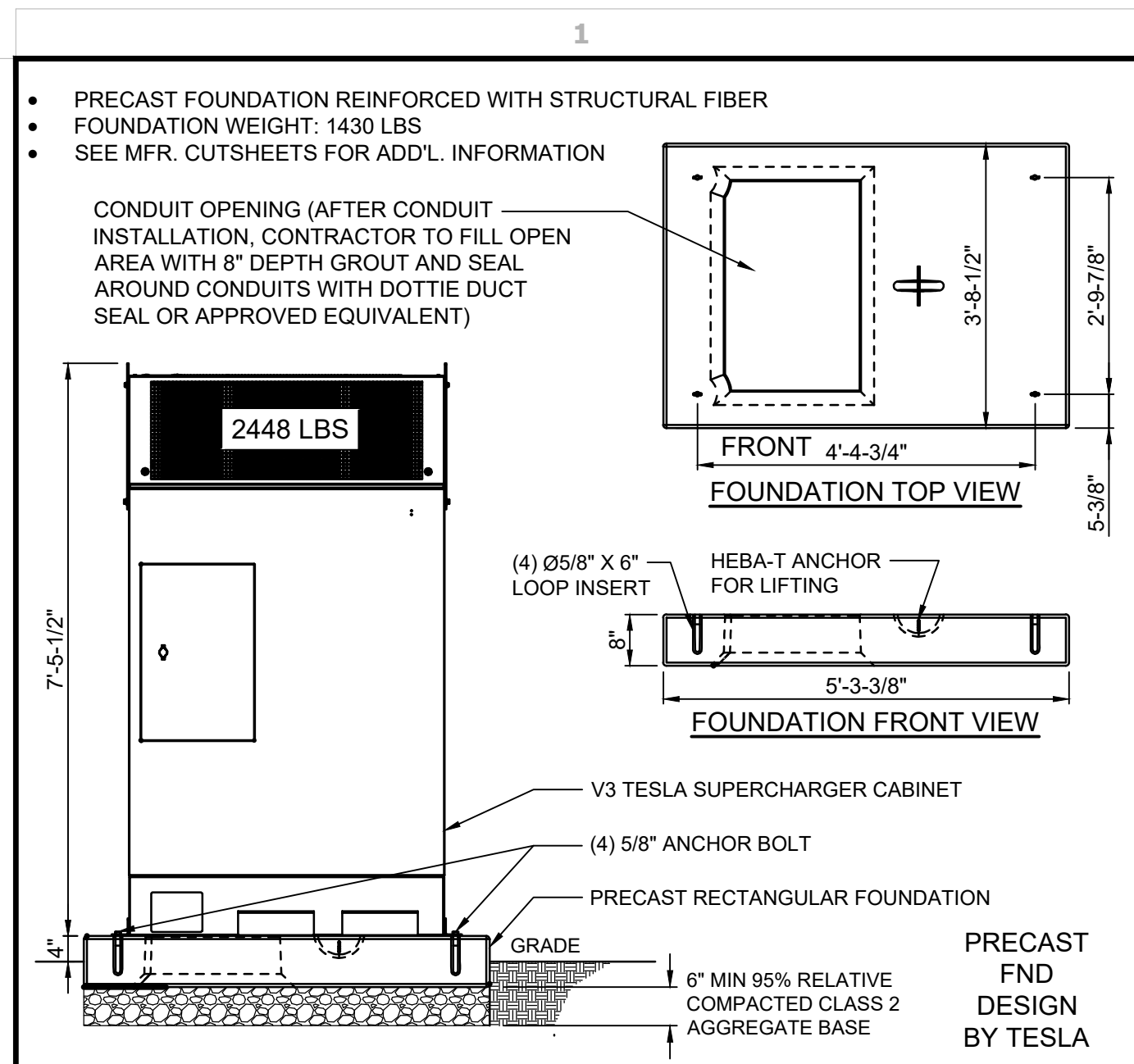
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PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

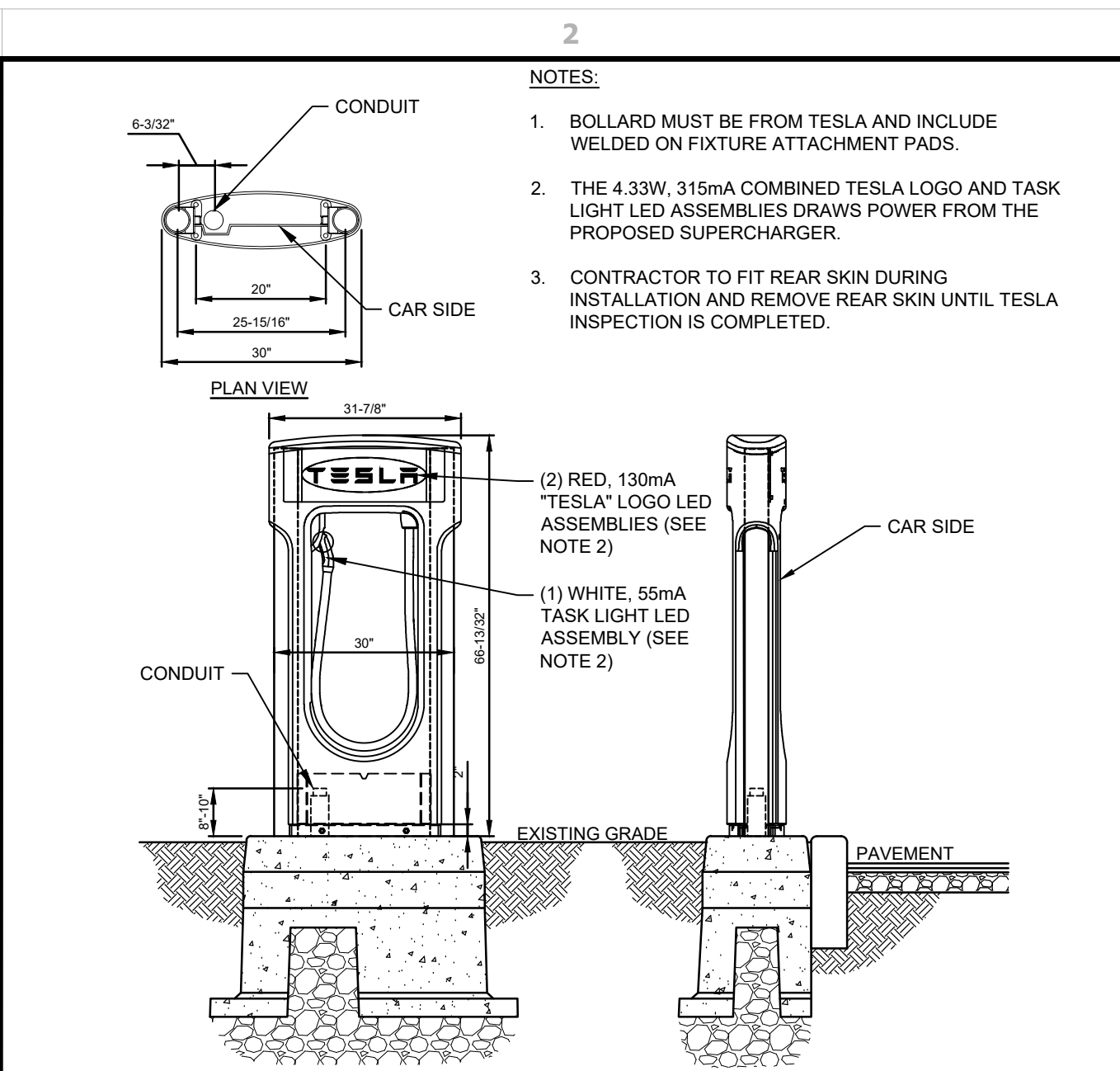
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C-2A

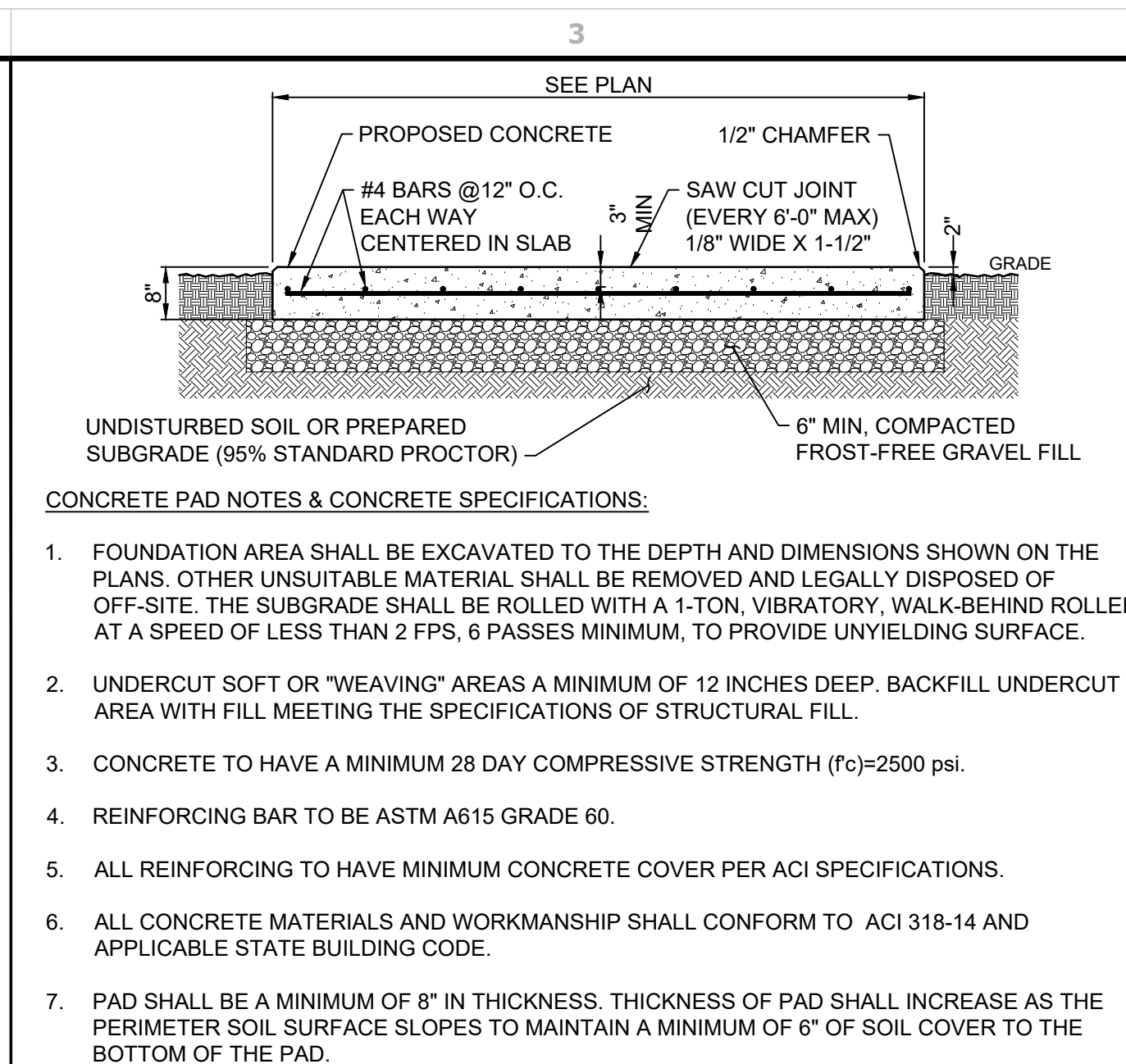
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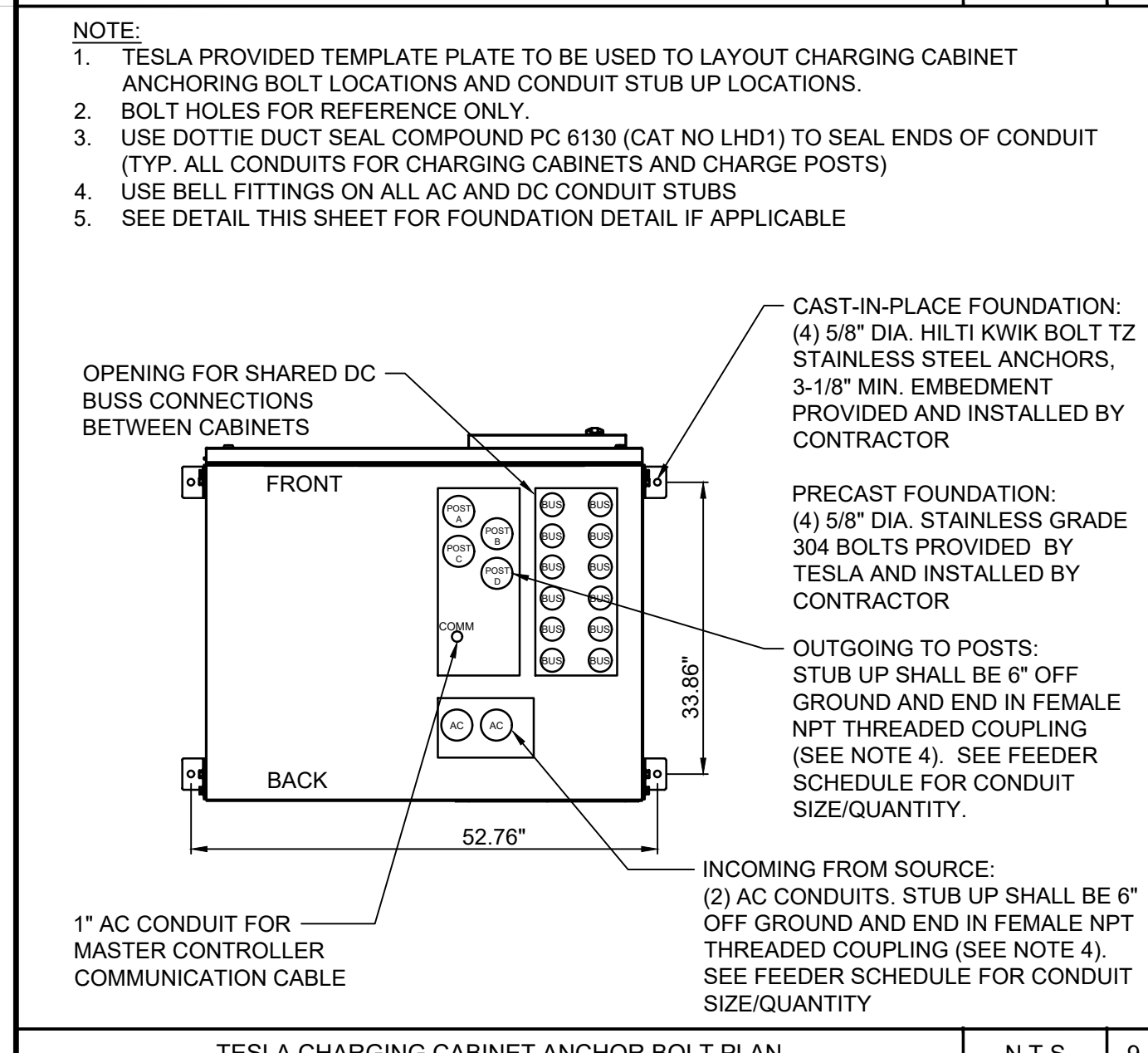
CABINET AND PRECAST FOUNDATION DETAIL N.T.S 8



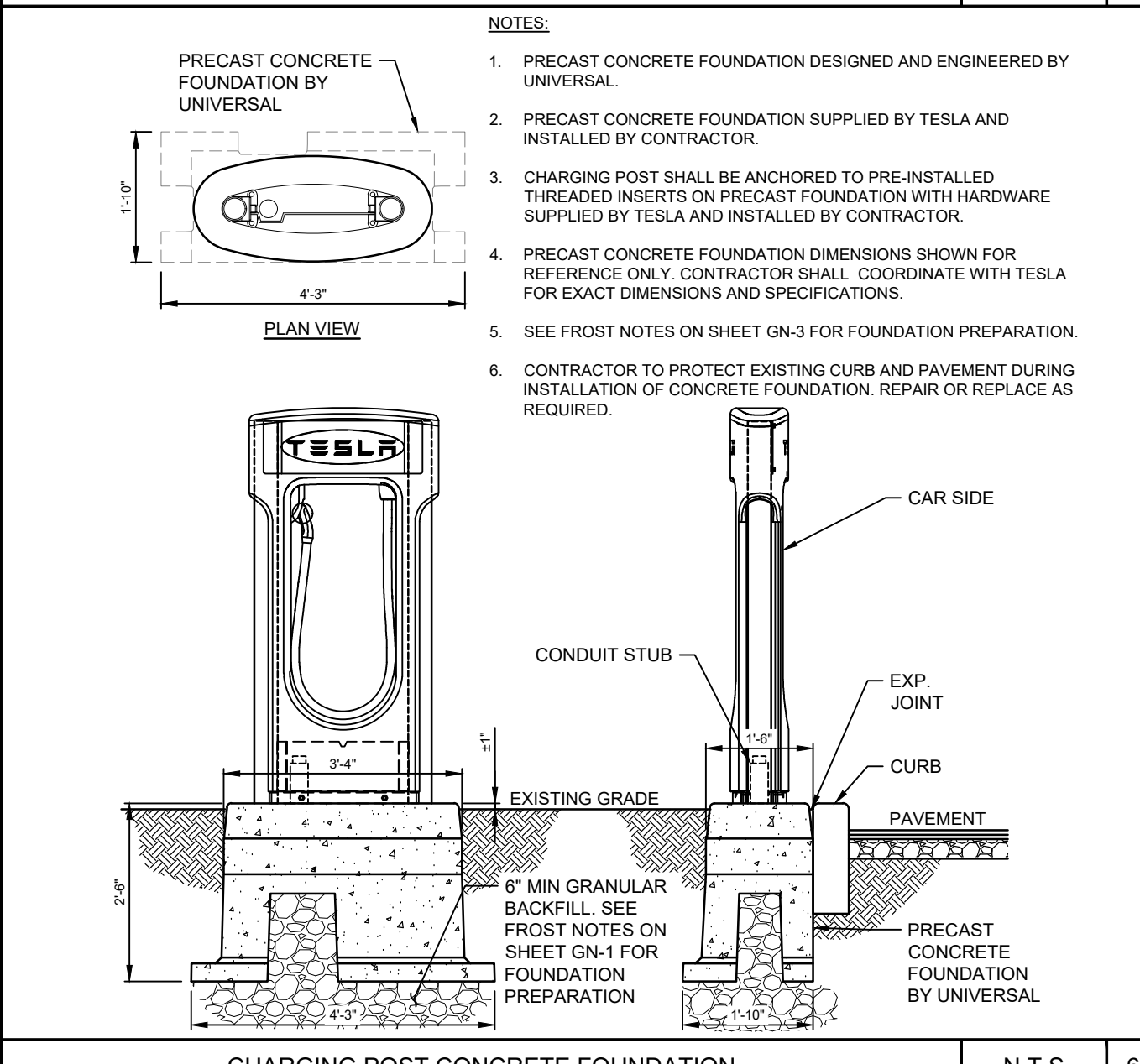
CHARGING POST ELEVATION N.T.S 5



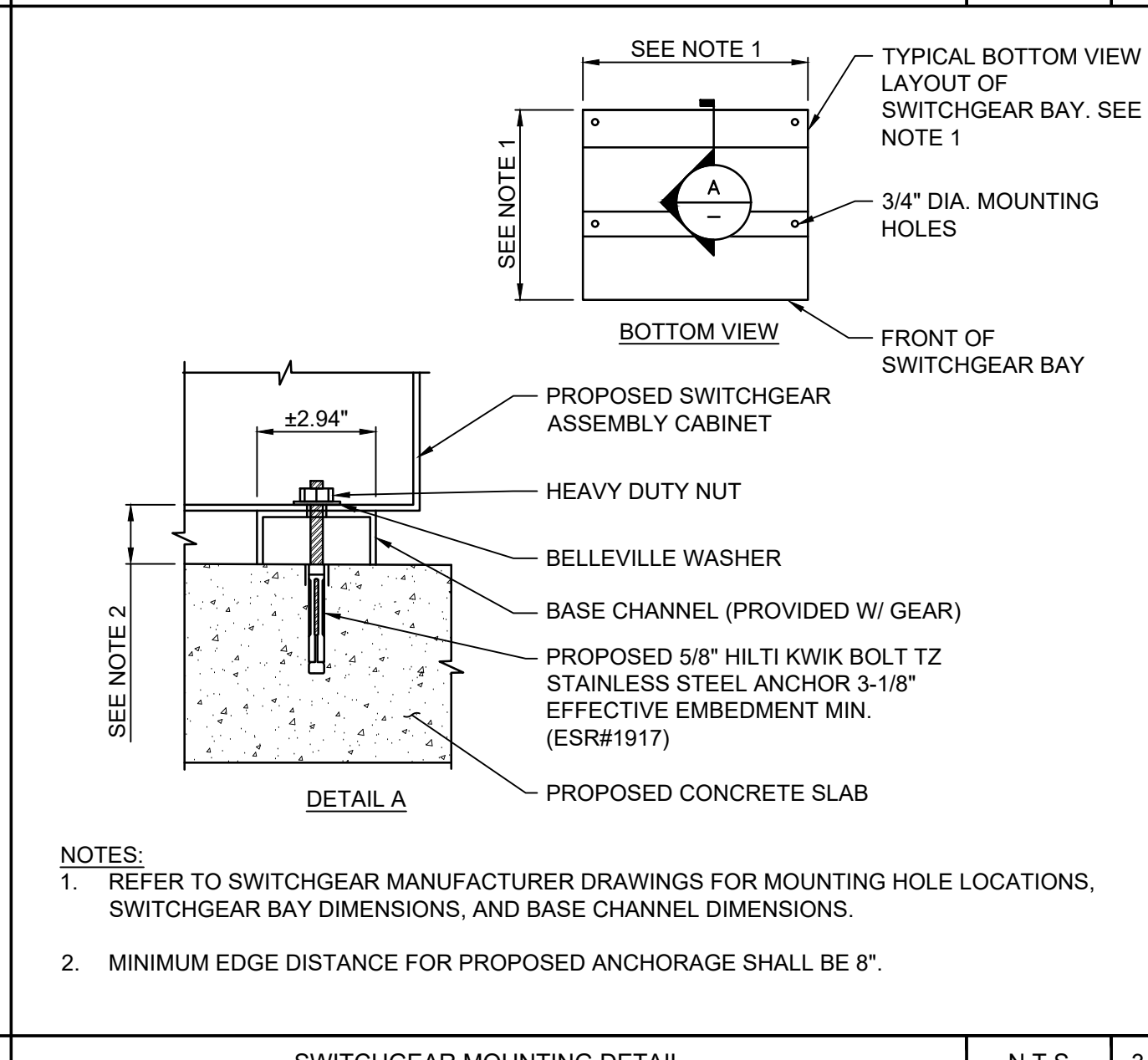
CONCRETE PAD DETAIL N.T.S 2



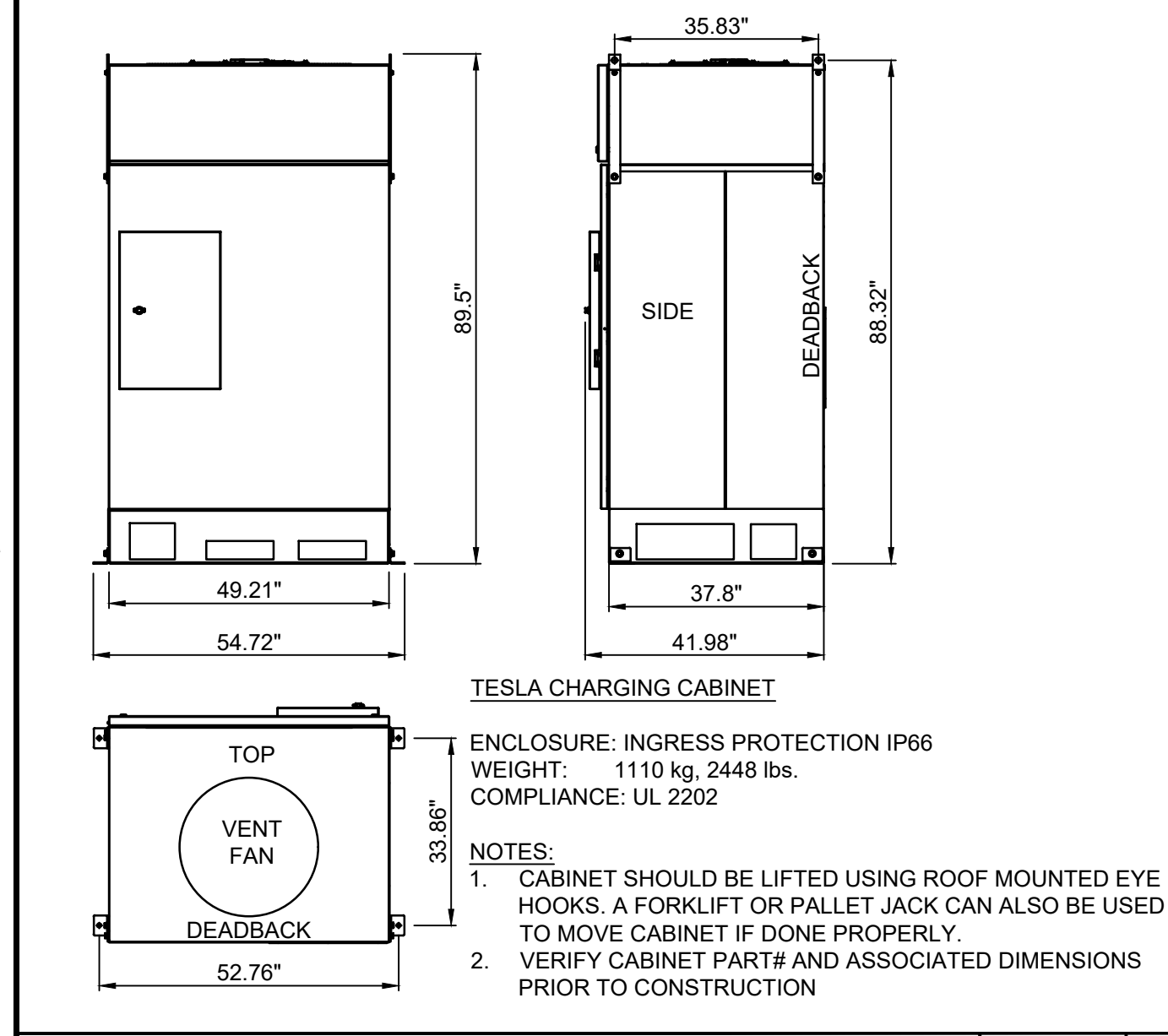
TESLA CHARGING CABINET ANCHOR BOLT PLAN N.T.S 9



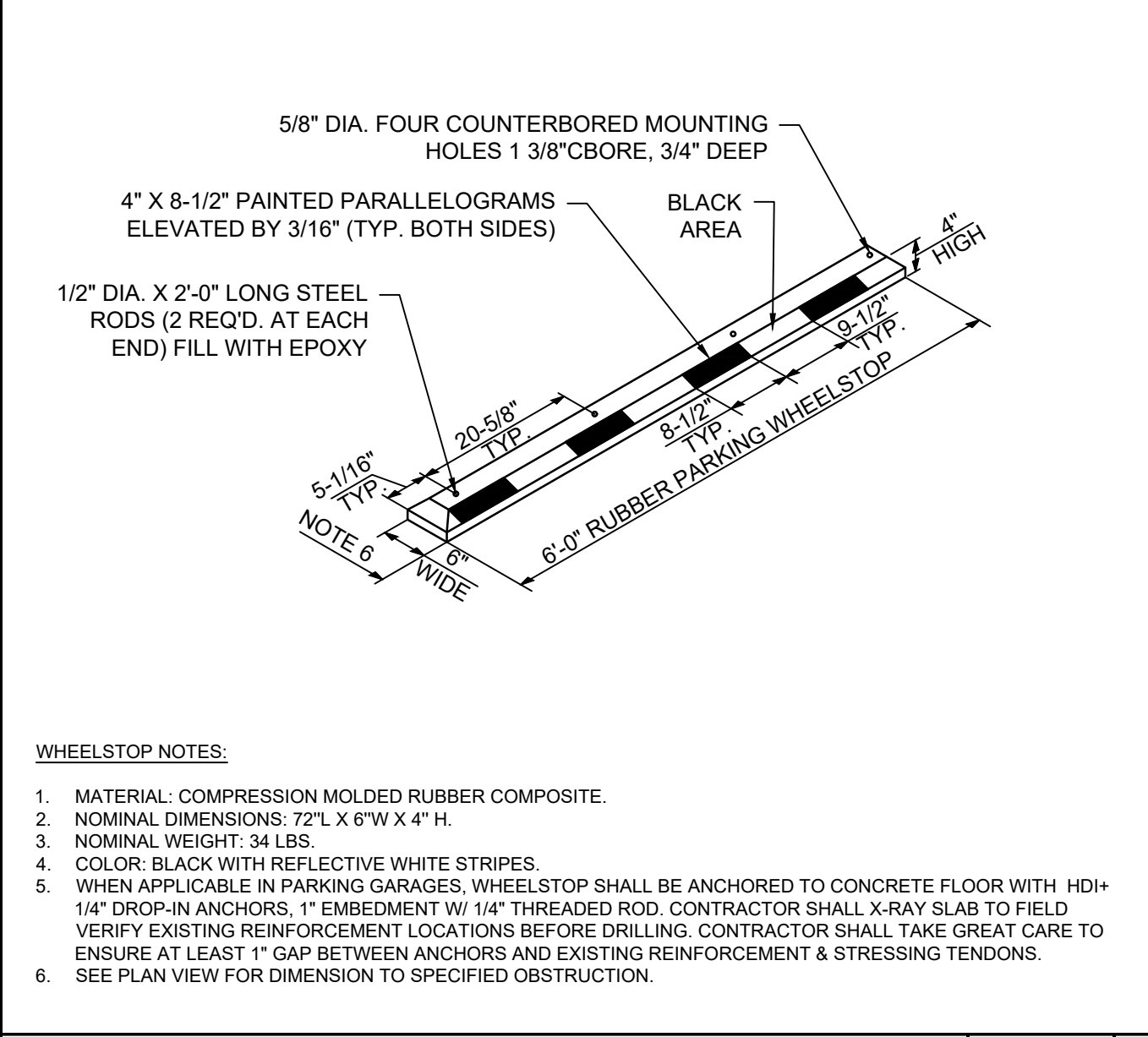
CHARGING POST CONCRETE FOUNDATION N.T.S 6



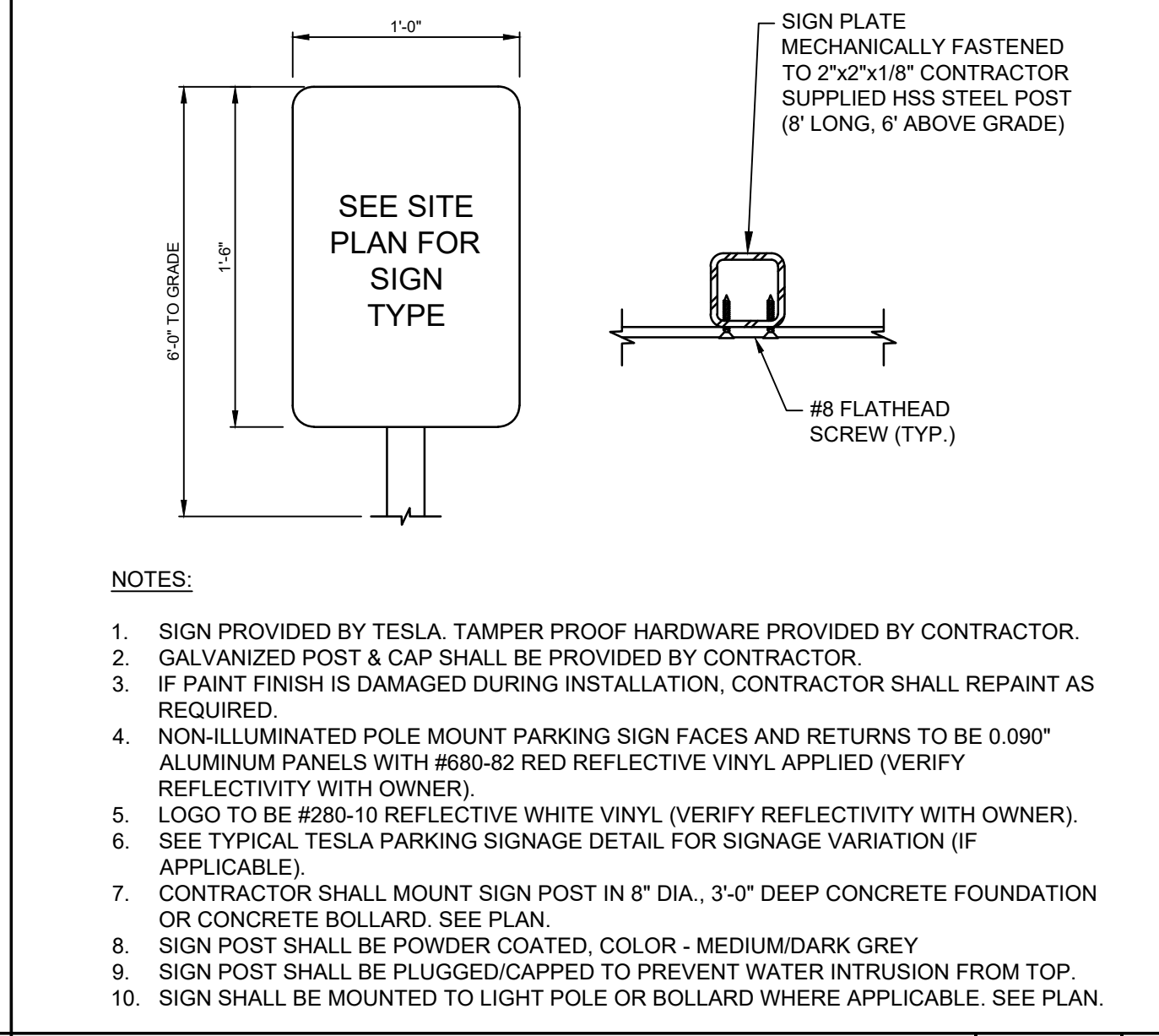
SWITCHGEAR MOUNTING DETAIL N.T.S 3



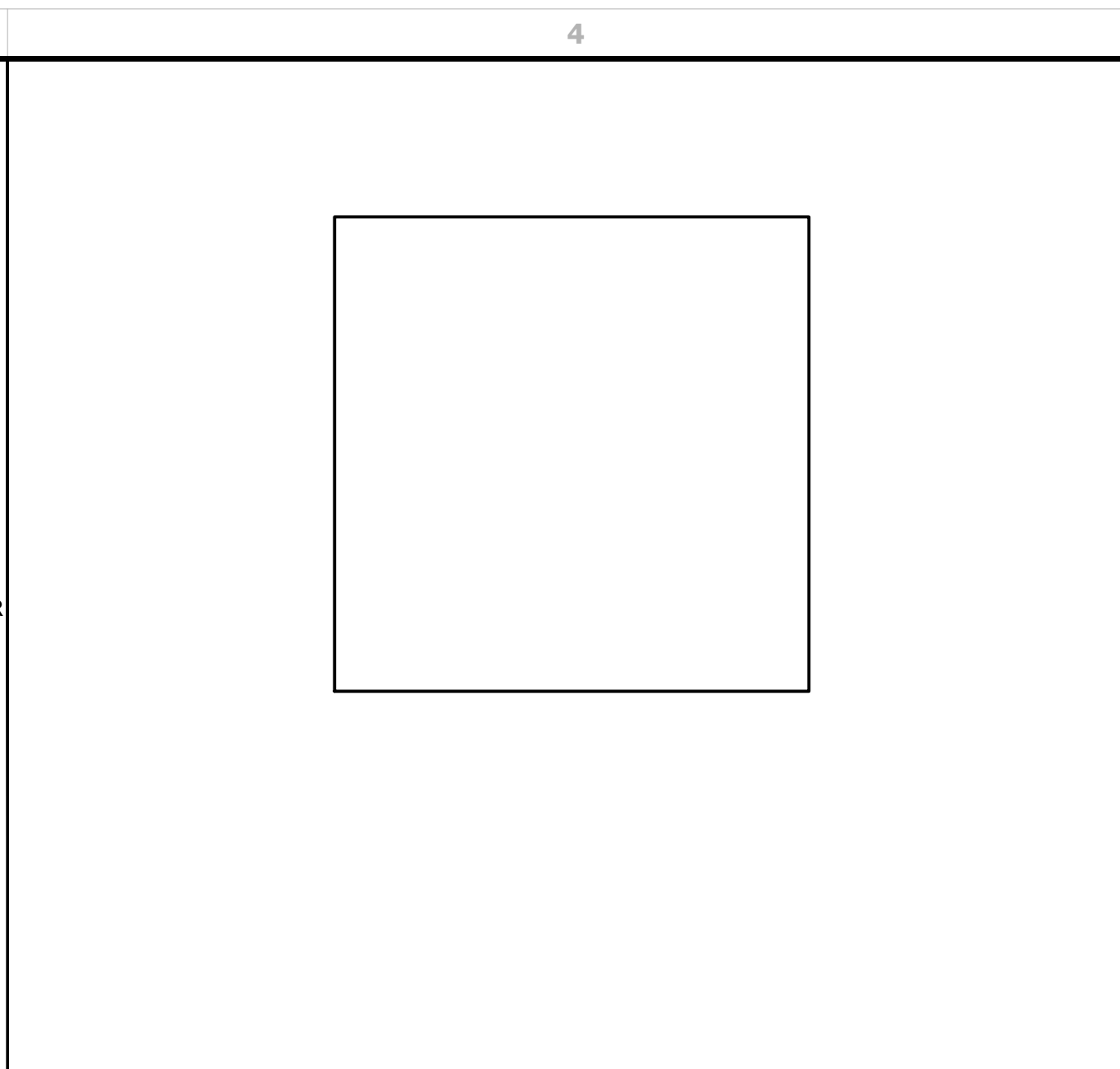
TESLA CHARGING CABINET DIMENSIONS N.T.S 10



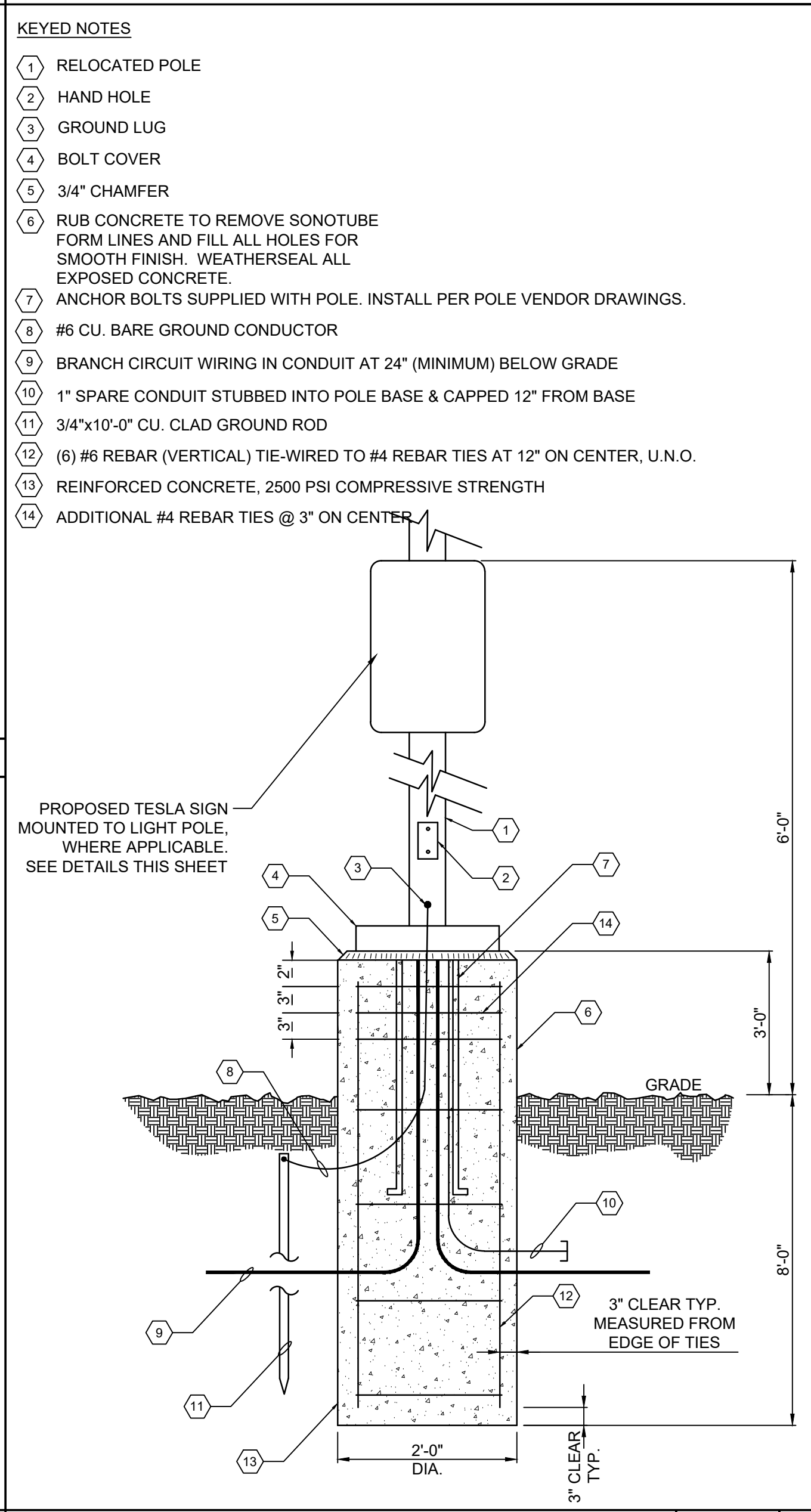
RUBBER WHEELSTOP N.T.S 7



TYPICAL PARKING SIGN DETAIL N.T.S 6



LIGHT POLE FOUNDATION DETAIL N.T.S 1



GPD GROUP
 Professional Corporation

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 Akron, OH 44311
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TESLA

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REV.	DATE	DESCRIPTION
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LEONARDO A. SERRA
 NEW MEXICO
 24262
 PROFESSIONAL ENGINEER
 10/19/2021

2200 LOUISIANA BLVD NE
 (TESLA STATION)
 ALBUQUERQUE, NM 87110

CIVIL DETAILS

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

JOB NO.
2021095.64

C-3



REV.	DATE	DESCRIPTION
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C	10/18/21	SIGNED AND SEALED



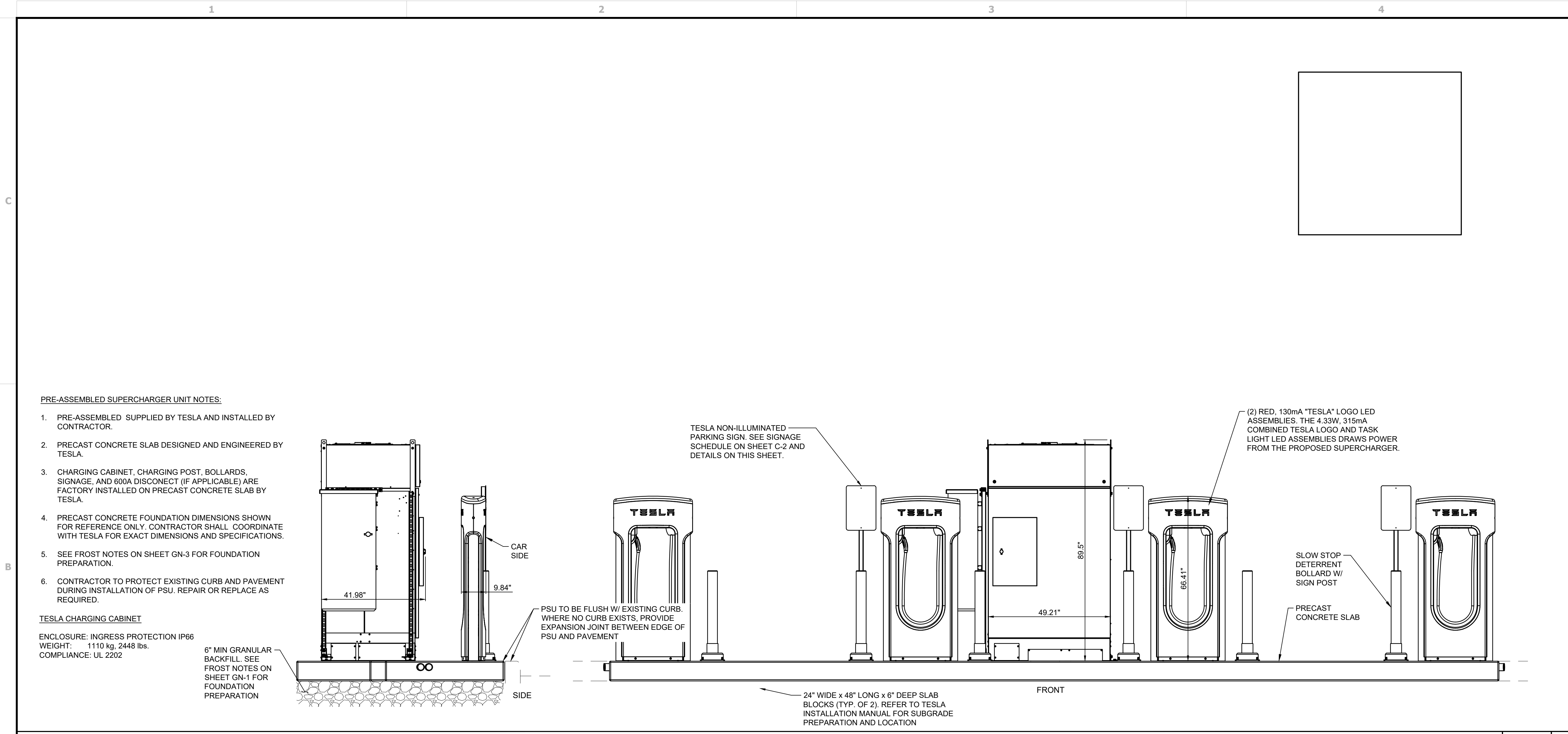
2200 LOUISIANA BLVD NE
(TESLA STATION)
ALBUQUERQUE, NM 87110

ISSUED FOR:	
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BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
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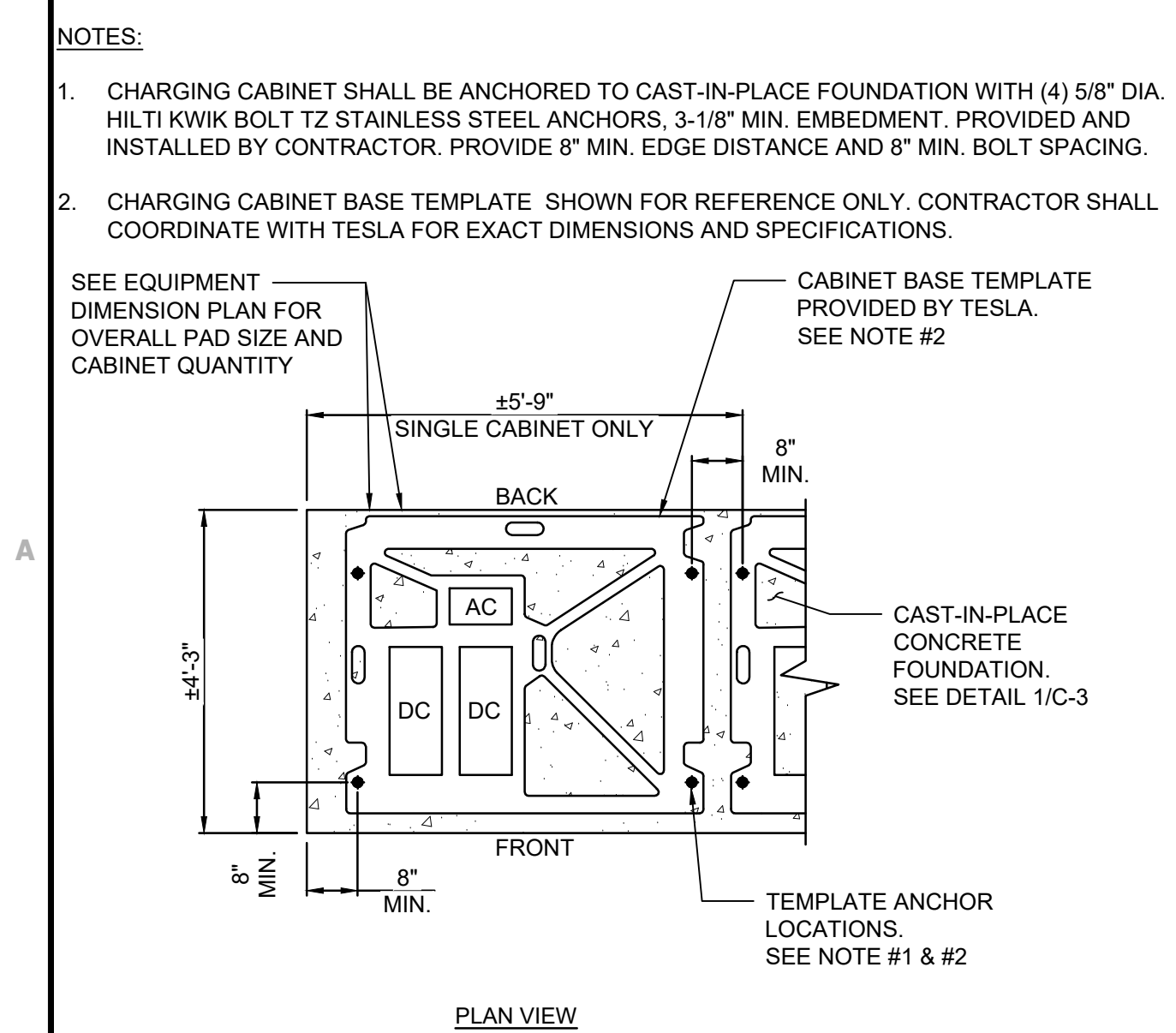
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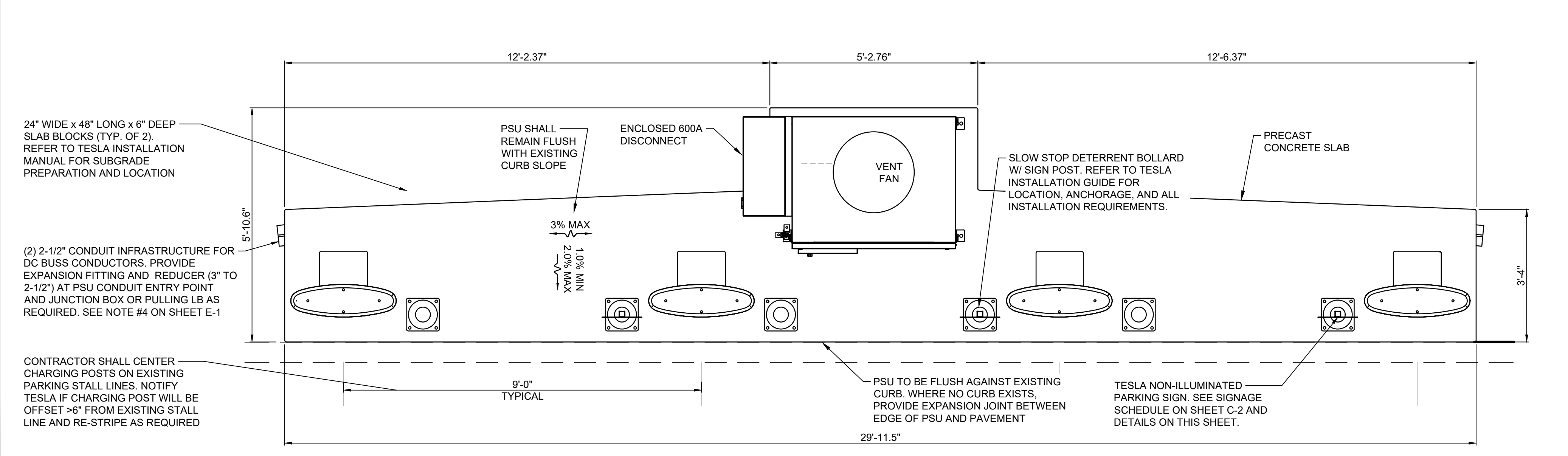
PRE-ASSEMBLED SUPERCHARGER UNIT (PSU) ELEVATION DETAIL

N.T.S 1



CHARGING CABINET FOUNDATION TEMPLATE DETAIL

N.T.S 3



PRE-ASSEMBLED SUPERCHARGER UNIT (PSU) PLAN VIEW DETAIL

N.T.S 2

PRE-ASSEMBLED SUPERCHARGER UNIT NOTES:

1. PRE-ASSEMBLED SUPPLIED BY TESLA AND INSTALLED BY CONTRACTOR.
2. PRECAST CONCRETE SLAB DESIGNED AND ENGINEERED BY TESLA.
3. CHARGING CABINET, CHARGING POST, BOLLARDS, SIGNAGE, AND 600A DISCONNECT (IF APPLICABLE) ARE FACTORY INSTALLED ON PRECAST CONCRETE SLAB BY TESLA.
4. PRECAST CONCRETE FOUNDATION DIMENSIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH TESLA FOR EXACT DIMENSIONS AND SPECIFICATIONS.
5. SEE FROST NOTES ON SHEET GN-3 FOR FOUNDATION PREPARATION.
6. CONTRACTOR TO PROTECT EXISTING CURB AND PAVEMENT DURING INSTALLATION OF PSU. REPAIR OR REPLACE AS REQUIRED.

TESLA CHARGING CABINET

ENCLOSURE: INGRESS PROTECTION IP66
WEIGHT: 1110 kg, 2448 lbs.
COMPLIANCE: UL 2202

NOTES:

1. 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.
2. CHARGING CABINET BASE TEMPLATE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH TESLA FOR EXACT DIMENSIONS AND SPECIFICATIONS.

SEE EQUIPMENT DIMENSION PLAN FOR OVERALL PAD SIZE AND CABINET QUANTITY

CABINET BASE TEMPLATE PROVIDED BY TESLA. SEE NOTE #2

CAST-IN-PLACE CONCRETE FOUNDATION. SEE DETAIL 1/C-3

TEMPLATE ANCHOR LOCATIONS. SEE NOTE #1 & #2

24\" WIDE x 48\" LONG x 6\" DEEP SLAB BLOCKS (TYP. OF 2). REFER TO TESLA INSTALLATION MANUAL FOR SUBGRADE PREPARATION AND LOCATION

PSU SHALL REMAIN FLUSH WITH EXISTING CURB SLOPE

ENCLOSED 600A DISCONNECT

SLOW STOP DETERRENT BOLLARD W/ SIGN POST. REFER TO TESLA INSTALLATION GUIDE FOR LOCATION, ANCHORAGE, AND ALL INSTALLATION REQUIREMENTS.

PRECAST CONCRETE SLAB

PSU TO BE FLUSH AGAINST EXISTING CURB. WHERE NO CURB EXISTS, PROVIDE EXPANSION JOINT BETWEEN EDGE OF PSU AND PAVEMENT

TESLA NON-ILLUMINATED PARKING SIGN. SEE SIGNAGE SCHEDULE ON SHEET C-2 AND DETAILS ON THIS SHEET.

(2) 2-1/2\" CONDUIT INFRASTRUCTURE FOR DC BUSS CONDUCTORS. PROVIDE EXPANSION FITTING AND REDUCER (3\" TO 2-1/2\") AT PSU CONDUIT ENTRY POINT AND JUNCTION BOX OR PULLING LB AS REQUIRED. SEE NOTE #4 ON SHEET E-1

CONTRACTOR SHALL CENTER CHARGING POSTS ON EXISTING PARKING STALL LINES. NOTIFY TESLA IF CHARGING POST WILL BE OFFSET >6\" FROM EXISTING STALL LINE AND RE-STRIP AS REQUIRED

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GENERAL ELECTRICAL SPECIFICATIONS

- 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
- IMPORTANT NOTE:** "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS SUBCONTRACTORS UNLESS NOTED OTHERWISE.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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. CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- 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.
- 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

- 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.
- 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.
- 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

- 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
 - NEC - NATIONAL ELECTRICAL CODE
 - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - SBC - STANDARD BUILDING CODE
 - NFPA - NATIONAL FIRE CODES

POST CONSTRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

- 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

- 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.
- 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.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTEXIST 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.
- 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.
- 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

- 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.
- 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.
- 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", 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.
- 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 BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.
- 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.
- 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.
- ALL BOLTS SHALL BE STAINLESS STEEL.
- 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.

ELECTRICAL EQUIPMENT

- 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.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

- CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.
- 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. 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.
- 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

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

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C.

- AND ANY LOCAL CODES.
- ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.
- GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.
- MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.
- GROUND-FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SERVICE DISCONNECTS RATED 1000A OR MORE. THE GROUND-FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED WHEN FIRST INSTALLED ON SITE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH INSTRUCTIONS THAT SHALL BE PROVIDED WITH THE EQUIPMENT. A WRITTEN RECORD OF THIS TEST SHALL BE MADE AND SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.
- 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.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- ALL GROUNDING HARDWARE SUPPLIED AND INSTALLED BY CONTRACTOR.

ELECTRICAL IDENTIFICATION

- PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.
- 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.
- COLOR CODING OF CONDUCTORS SHALL BE PER NEC REQUIREMENTS.
- 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

- 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.
- 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%).
- PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.
- 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.
- 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.
- CABLES - MC CABLE IS NOT PERMITTED.
- PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.
- 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

- ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR THE NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.
- THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.
- 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.
- ALL ALUMINUM (A) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
- 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:

- 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.
- ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
- TERMINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
- NECA / AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS TO COPPER BUS BARS. ABIDE BY ALL NECA / AA RECOMMENDATIONS. 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

- RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE R.G.S. 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.

- ABOVE GRADE: R.G.S.
- BELOW GRADE: SCHEDULE 40 PVC (UNLESS NOTED OTHERWISE)

- ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
- 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'.

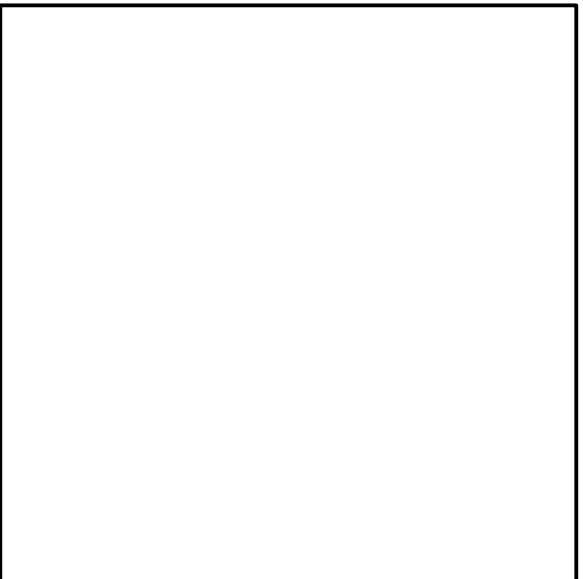
- OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED; ANACONDA METAL HOSE; ANIXTER BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.
- PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; 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: 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.
- PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.
- 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

- 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

- 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.
- PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.



REV.	DATE	DESCRIPTION
A	08/30/21	ISSUED FOR 90% REVIEW
B	10/14/21	RE-ISSUED FOR 90% REVIEW
C	10/18/21	SIGNED AND SEALED



2200 LOUISIANA BLVD NE
(TESLA STATION)
ALBUQUERQUE, NM 87110

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

JOB NO.
2021095.64

EN-1

**ELECTRICAL
GENERAL NOTES**

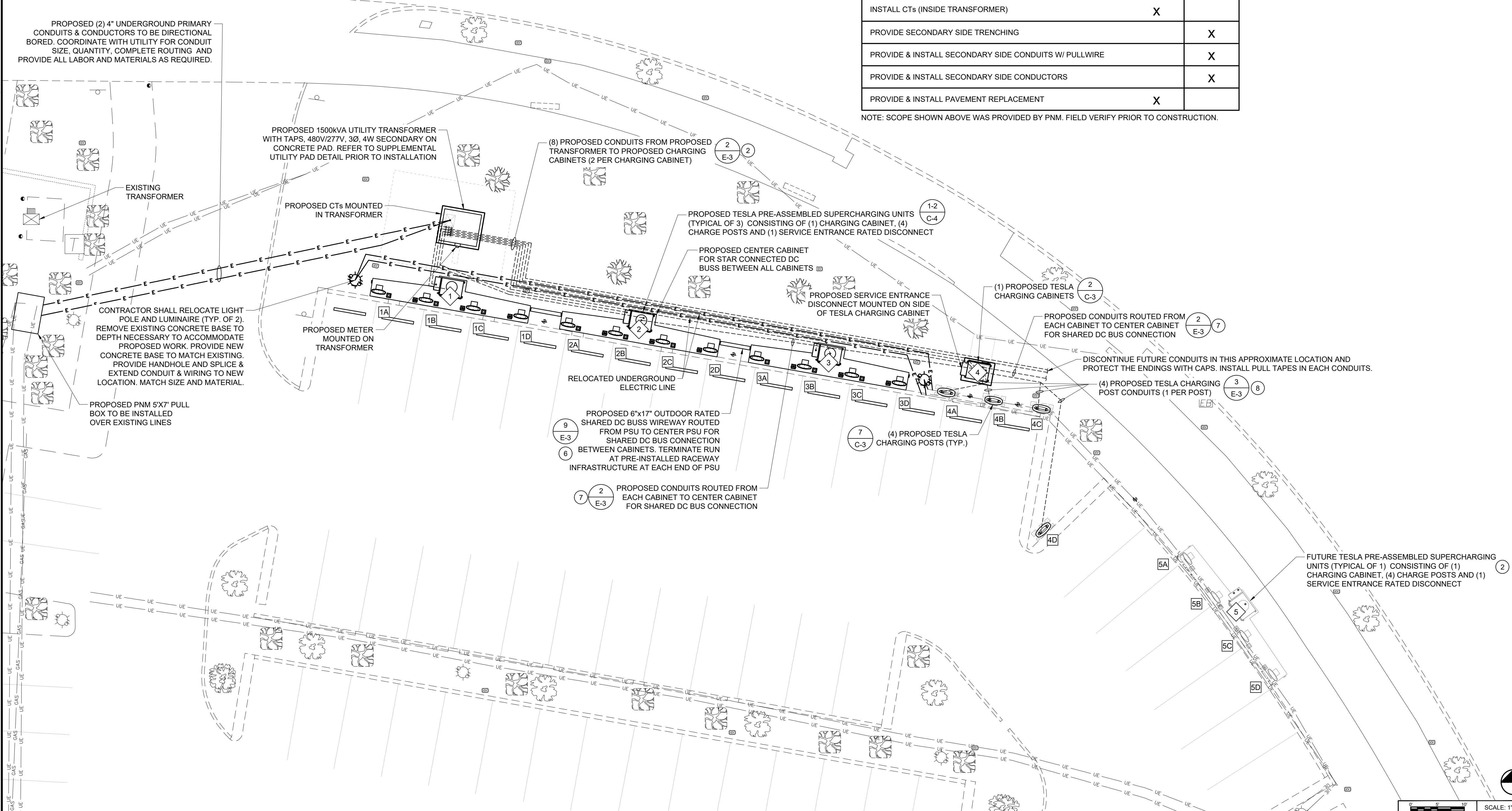
GENERAL SHEET NOTES

- " # " DENOTES FEEDER REFERENCE. REFER TO SHEET E-2 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 AND MINIMUM CONDUCTOR BENDING RADIUS. SEE FEEDER SCHEDULE FOR CONDUIT & CONDUCTOR SPECIFICATIONS.
- ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
- ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN TRENCH DETAILS, 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.
- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
- FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.

ELECTRICAL SCOPE OF WORK RESPONSIBILITIES

SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY SIDE TRENCHING	X	
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE	X	
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	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	
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 & INSTALL PAVEMENT REPLACEMENT	X	

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY PNM. FIELD VERIFY PRIOR TO CONSTRUCTION.



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2200 LOUISIANA BLVD NE
(TESLA STATION)
ALBUQUERQUE, NM 87110

ELECTRICAL
EQUIPMENT PLAN

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

JOB NO.
2021095.64

E-1



3500 DEER CREEK RD
 PALO ALTO, CA 94304
 (650) 991-6000

REV.	DATE	DESCRIPTION
A	08/30/21	ISSUED FOR 90% REVIEW
B	10/14/21	RE-ISSUED FOR 90% REVIEW
C	10/18/21	SIGNED AND SEALED



10/19/2021

2200 LOUISIANA BLVD NE
 (TESLA STATION)
 ALBUQUERQUE, NM 87110

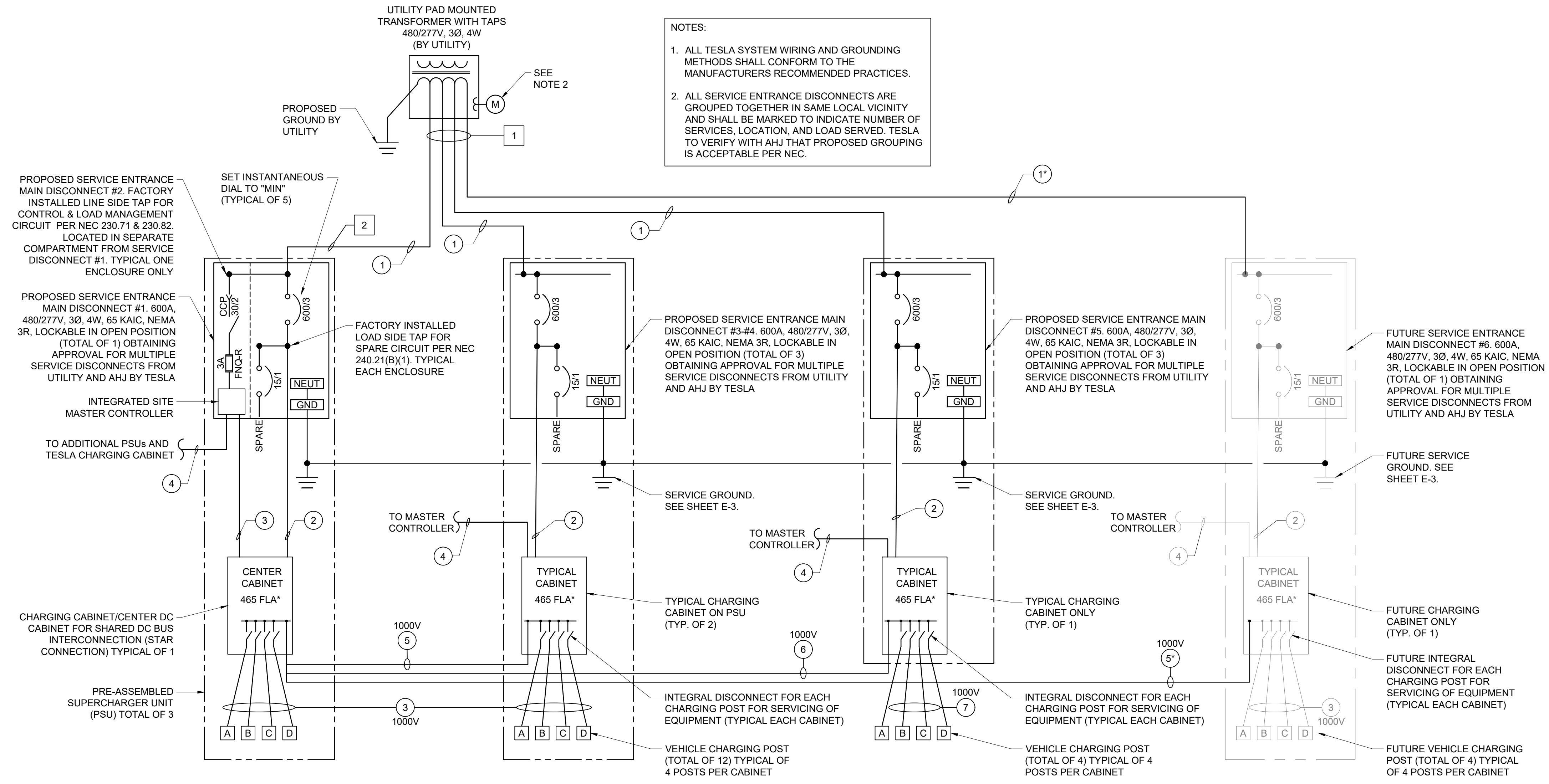
ONE-LINE DIAGRAM
 & PANEL SCHEDULE

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

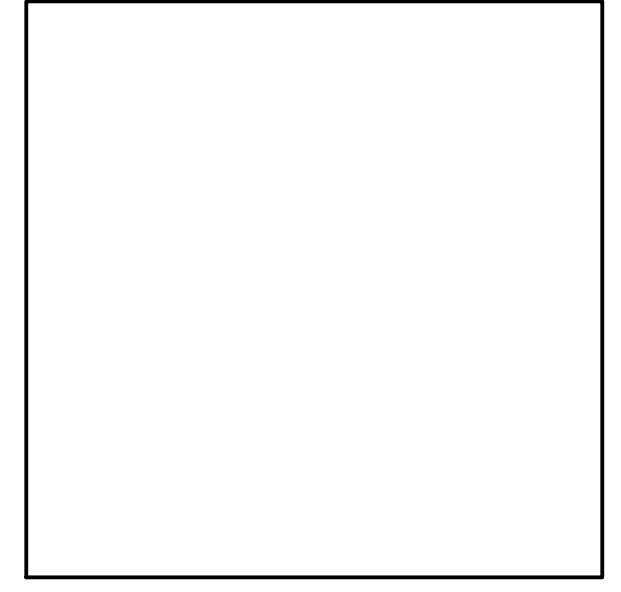
JOB NO.
2021095.64

E-2



NOTES:

1. ALL TESLA SYSTEM WIRING AND GROUNDING METHODS SHALL CONFORM TO THE MANUFACTURERS RECOMMENDED PRACTICES.
2. ALL SERVICE ENTRANCE DISCONNECTS ARE GROUPED TOGETHER IN SAME LOCAL VICINITY AND SHALL BE MARKED TO INDICATE NUMBER OF SERVICES, LOCATION, AND LOAD SERVED. TESLA TO VERIFY WITH AHJ THAT PROPOSED GROUPING IS ACCEPTABLE PER NEC.



FEEDER/CIRCUIT SCHEDULE	
NO	CONFIGURATION
1	(2) SETS - EACH IN 4" CONDUIT (3) 500 MCM AI (1) 500 MCM AI NEUT
2	FACTORY INSTALLED WIRING
3	FACTORY INSTALLED WIRING
4	OUTDOOR RATED/SHIELDED CAT5e OR CAT6 COMMUNICATION CABLE IN 1" CONDUIT.
5	(2) SETS IN 17" WIREWAY. (2) 500 MCM AI (ONE +, ONE -) (1) #3/0 AWG AI DC MID (1) #1/0 AWG Cu GND TERMINATIONS/ASSEMBLIES ARE 90° RATED PROVIDE EXPANSION FITTING BETWEEN PSU AND WIREWAY CONNECTION
6	(2) SETS - EACH IN 3" CONDUIT. (2) 600 MCM AI (ONE +, ONE -) (1) #3/0 AWG AI DC MID (1) #1/0 AWG Cu GND (1) #3/0 AWG AI DC MID DISC. 36" LONG IN EA. CABINET, NOT Routed IN CONDUIT
7	(1) SET IN 4" CONDUIT (4) 350 MCM AI (TWO +, TWO -) (1) #1 AWG Cu GND OR #2/0 AWG AI GND (1) 1000V, CLASS 1, COMM CABLE

NOTE:

1. ALL AC CONDUCTORS SHALL BE XHHW-2, 600V RATED, U.N.O.
2. ALL DC CONDUCTORS SHALL BE XHHW-2, 1000V RATED, U.N.O.
3. SEE "RACEWAY AND BOXES" NOTES ON SHEET EN-1 FOR CONDUIT USE TYPES FOR ABOVE AND BELOW GRADE APPLICATIONS.

FEEDER SCHEDULE REFERENCE DENOTED WITH AN ASTERISK * (*) * REPRESENTS PROPOSED CONDUITS W/ PULLSTRING ONLY FOR FUTURE EQUIPMENT TO MATCH CONDUIT SPECIFIED FOR PROPOSED EQUIPMENT.

GENERAL SHEET NOTES

1. NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
2. PROPOSED UTILITY CTs SHALL BE LOCATED IN UTILITY APPROVED CT COMPARTMENTS MOUNTED IN TRANSFORMER. PROPOSED METER SHALL BE MOUNTED ON TRANSFORMER.
3. ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR.
4. ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. SEE SHEET E-1 FOR UTILITY/CONTRACTOR SCOPE OF WORK.
5. THE TESLA PROVIDED CHARGING CABINETS AND THE CHARGING POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
 - TUV CERTIFIED TO UL 2202
6. THE AFOREMENTIONED STANDARDS IDENTIFY THE REQUIREMENTS MET BY THE TUV CERTIFIED EQUIPMENT, INCLUDING BUT NOT LIMITED TO:
 - 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.
 - INTERLOCK THAT DE-ENERGIZES THE ELECTRIC VEHICLE CONNECTOR WHENEVER THE ELECTRICAL CONNECTOR IS UNCOUPLED FROM THE ELECTRIC VEHICLE
 - AUTOMATIC DE-ENERGIZATION OF CHARGING POST CABLE UPON EXPOSURE TO STRAIN
7. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
8. REFER TO THIS SHEET FOR FAULT CURRENT CALCULATIONS. CONTRACTOR SHALL MARK ON ALL EQUIPMENT AS REQUIRED PER N.E.C.
9. REFER TO SHEET E-3 FOR ARC FLASH LABEL DETAILS. CONTRACTOR SHALL LABEL ALL EQUIPMENT AS REQUIRED PER N.E.C.

SERVICE LOAD SUMMARY

600A S.E. DISCONNECT #1 CONNECTED LOAD: 465A
 600A S.E. DISCONNECT #2 CONNECTED LOAD: 465A
 600A S.E. DISCONNECT #3 CONNECTED LOAD: 465A
 600A S.E. DISCONNECT #4 CONNECTED LOAD: 465A
 600A S.E. DISCONNECT #5 CONNECTED LOAD: 465A
 30A S.E. DISCONNECT #6 CONNECTED LOAD: 0.41A
 TOTAL SERVICE LOAD: 2,325.41A x 1.25 = 2,906A

*OCPD FOR CHARGING CABINETS IS CALCULATED AS FOLLOWS:
 465A AC INPUT TO CABINET x 1.25 = 581.25A ==> 600A BREAKER REQUIRED

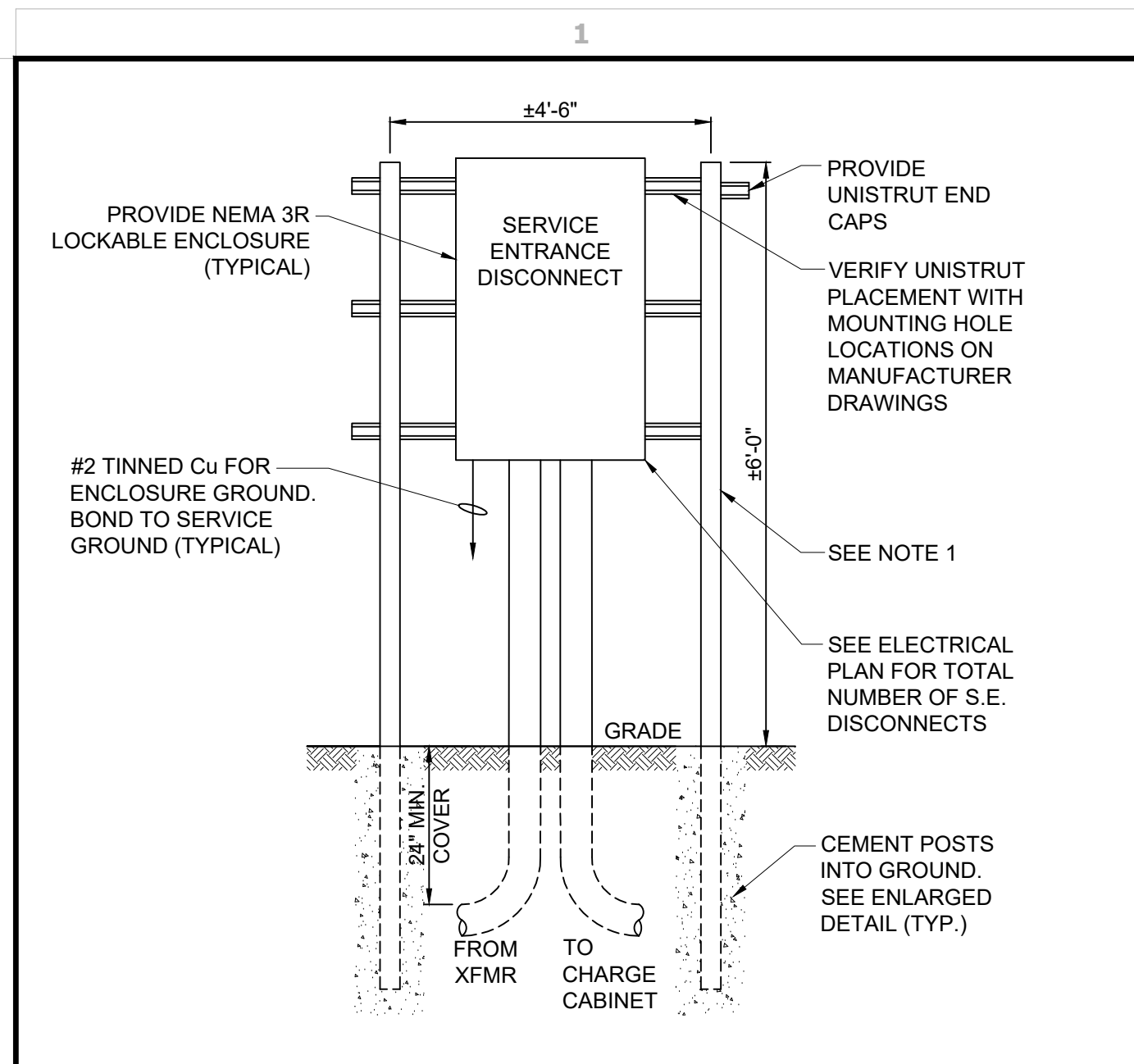
AVAILABLE FAULT CURRENT (AMPS)	
1	60,000
2	55,355

FAULT CURRENT NOTE:
 FAULT CURRENT SHOWN AT PSU, LOCATION #2, REPRESENTS SHORTEST CONDUCTOR LENGTH FROM TRANSFORMER TO PSU(S).

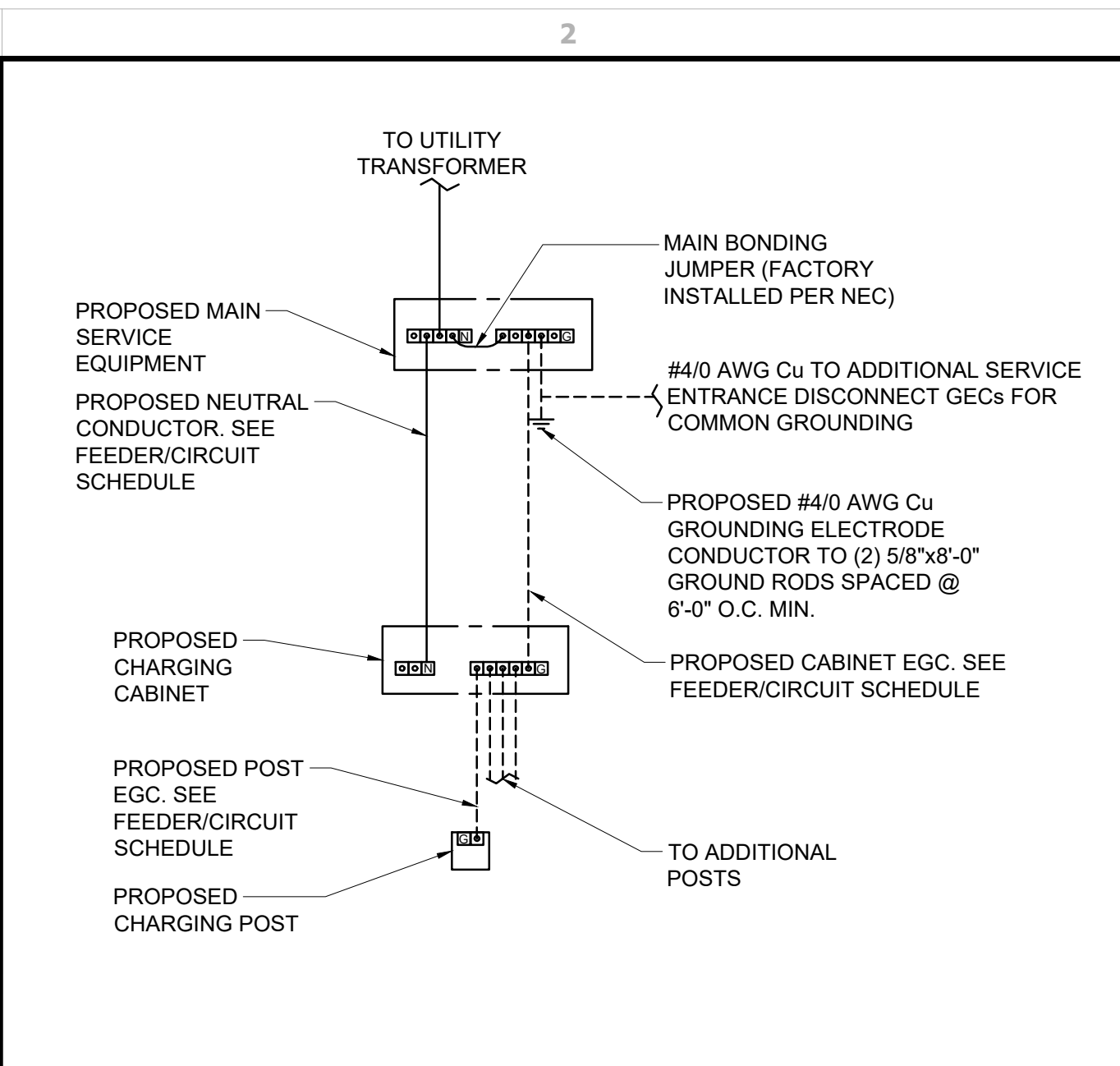
TESLA V3 CHARGING CABINET & POST ELECTRICAL SPECS							
CHARGE POST MODEL	AC INPUT VOLTAGE TO CABINET	KVA INPUT TO CABINET	AC INPUT CURRENT TO CABINET	DC OUTPUT VOLTAGE TO CHARGE POST	DC OUTPUT CURRENT TO CHARGE POST	DC SHARED BUS CURRENT	SHORT CIRCUIT CURRENT RATING
V3	380V-480V	387kVA	465A	0V - 500V	350A	640A	85 KAIC

BREAKER SETTINGS								
BREAKER USE	BREAKER SIZE	LONG DELAY	LONG DELAY TIME	SHORT DELAY	SHORT DELAY TIME	INSTANTANEOUS	GROUND SETTING	GROUND TIME
V3 BRANCH CIRCUIT	600A	X	X	X	X	5	X	X

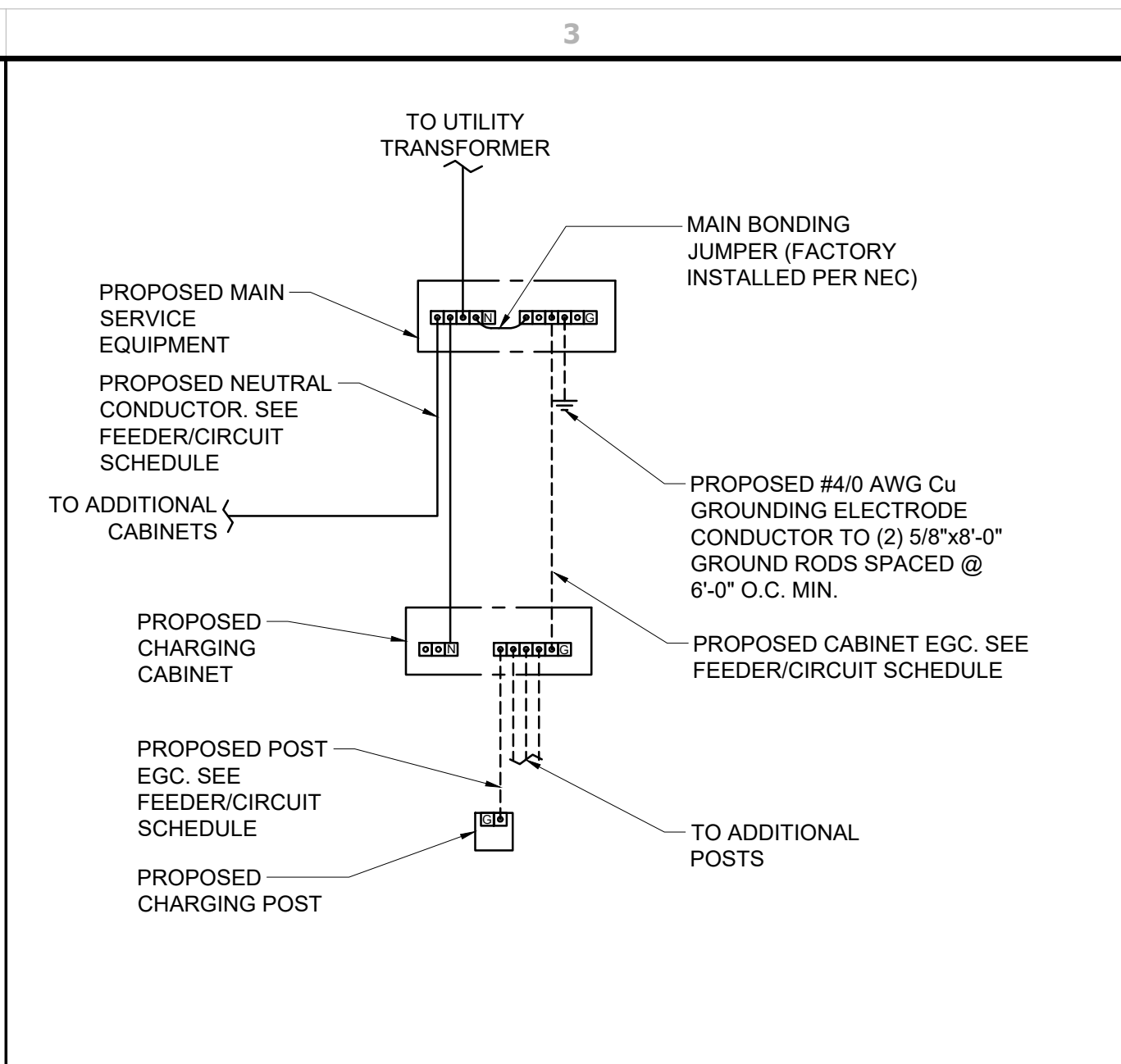
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October 19, 2021 3:2 PM - Dbraun



ENCLOSED 600A DISCONNECT MOUNTED TO H-FRAME DETAIL N.T.S 8



TYPICAL PSU GROUNDING DIAGRAM N.T.S 5



TYPICAL GROUNDING DIAGRAM N.T.S 3

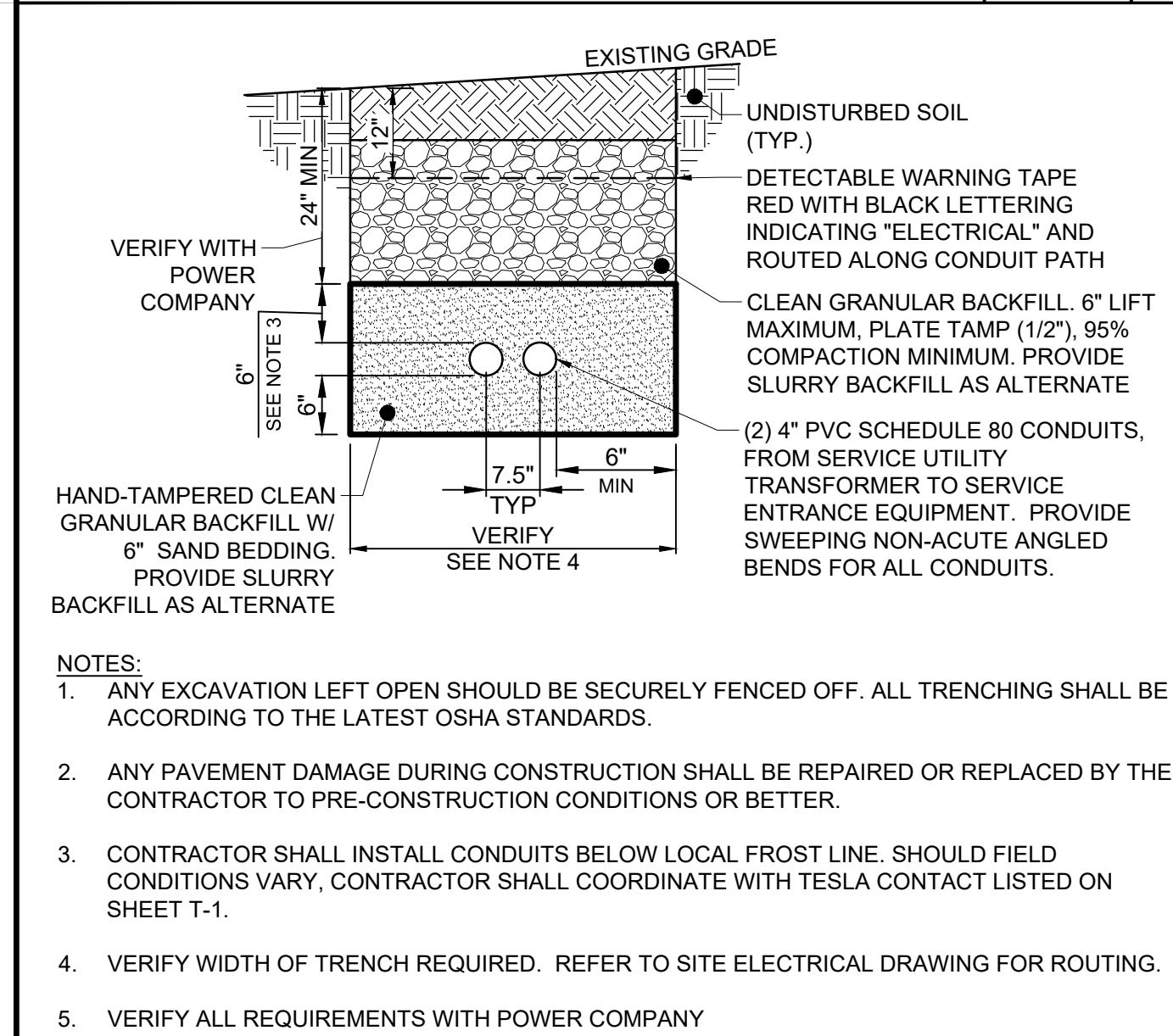
DANGER

NO SAFE PPE EXISTS
ENERGIZED WORK PROHIBITED

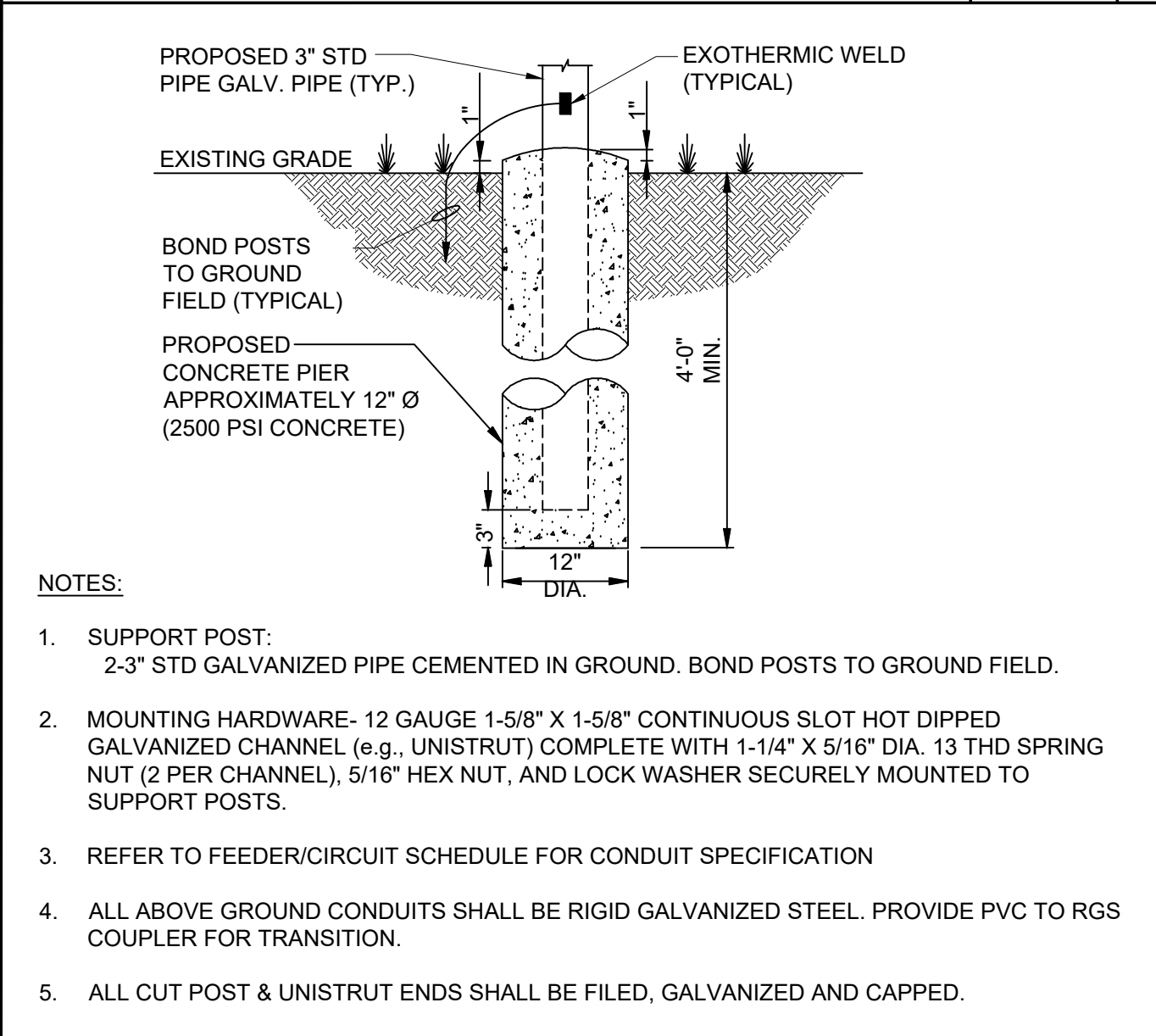
<p>FLASH PROTECTION</p> <p>Incident Energy at 18 in Min. Arc Rating: 167.9 cal/cm² Arc Flash Boundary: 396 in Glove Class: 00</p> <p>DO NOT WORK ON LIVE!</p>	<p>SHOCK PROTECTION</p> <p>Shock risk when cover is removed 480 VAC</p> <p>Limited Approach 42 in Restricted Approach 12 in</p>
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Bus: PSU CHARGING CABINETS Prot: MaxTripTime @2.0s

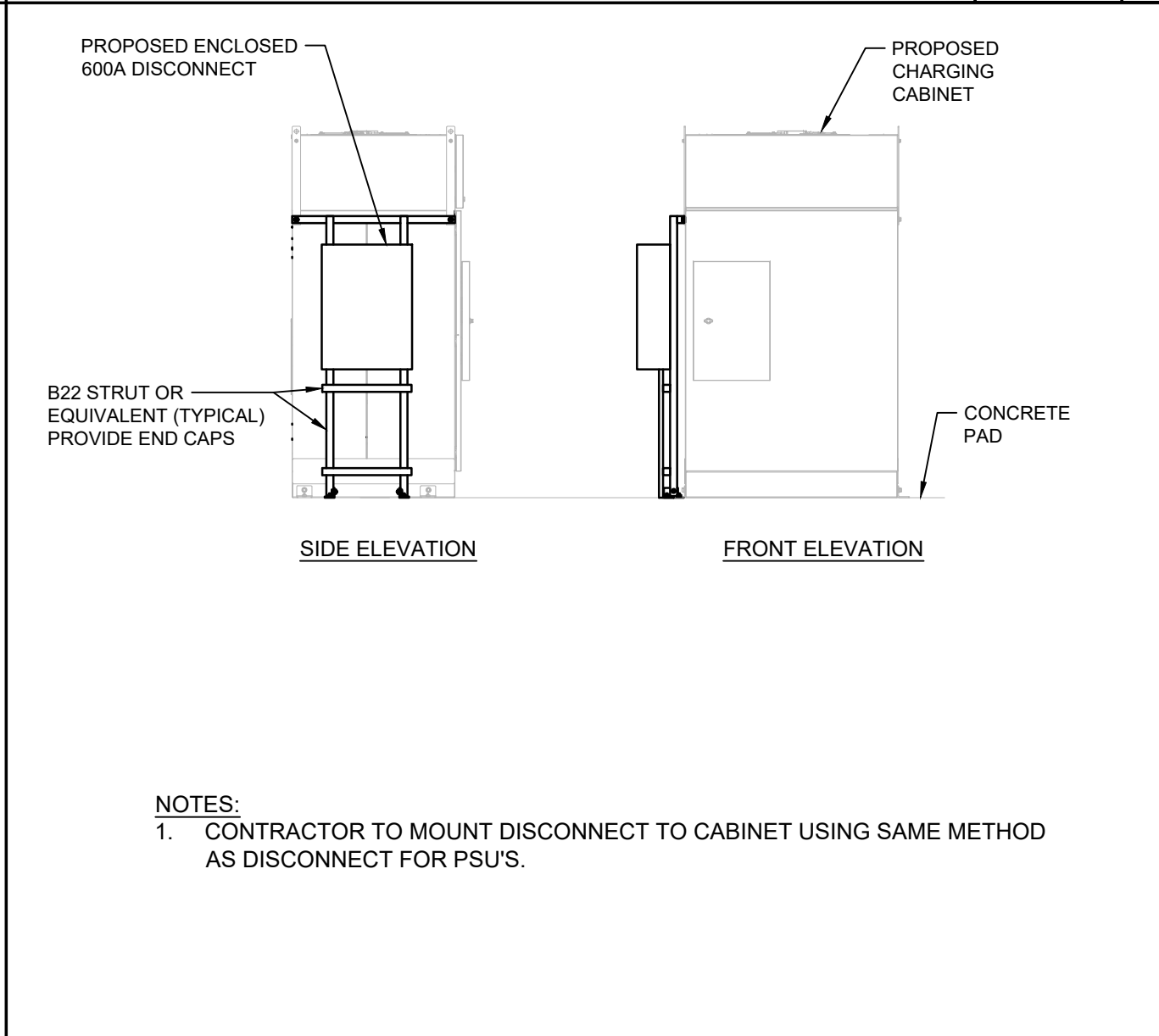
- PSU CHARGING CABINETS - INCOMING UTILITY
- NOTES:
- FOR ANY QUESTIONS OR CLARIFICATIONS REGARDING LABELS, CONTACT MIKE GREEN, GPD GROUP, AT 330-572-2267.
 - ARC FLASH INCIDENT ENERGY ANALYSIS COMPLETED PER NFPA 70E 2018.
 - ARC FLASH CALCULATIONS PER IEEE 1584, 2018.
 - LABELS SHALL BE PRINTED WITH PERMANENT INK ON WEATHERPROOF LABELS WITH SELF STICKING ADHESIVE.
 - INSTALL LABELS PER NEC SECTION 110.16.
 - FOR EACH SWITCHGEAR SECTION, CONTRACTOR SHALL PROVIDE (1) APPLICABLE LABEL ON EXTERIOR DOOR AND (1) APPLICABLE LABEL ON INTERIOR FRONT FACING SECTION. CONTRACTOR SHALL FIELD VERIFY SPECIFIC LOCATION FOR LABEL PLACEMENT(S).
 - CONTRACTOR SHALL PROVIDE LABELS WITH ANY ADDITIONAL INFORMATION AS REQUIRED BY LOCAL JURISDICTION, STATE AND FEDERAL CODES AND LAWS.



SECONDARY FEEDERS TRENCH DETAIL N.T.S 9

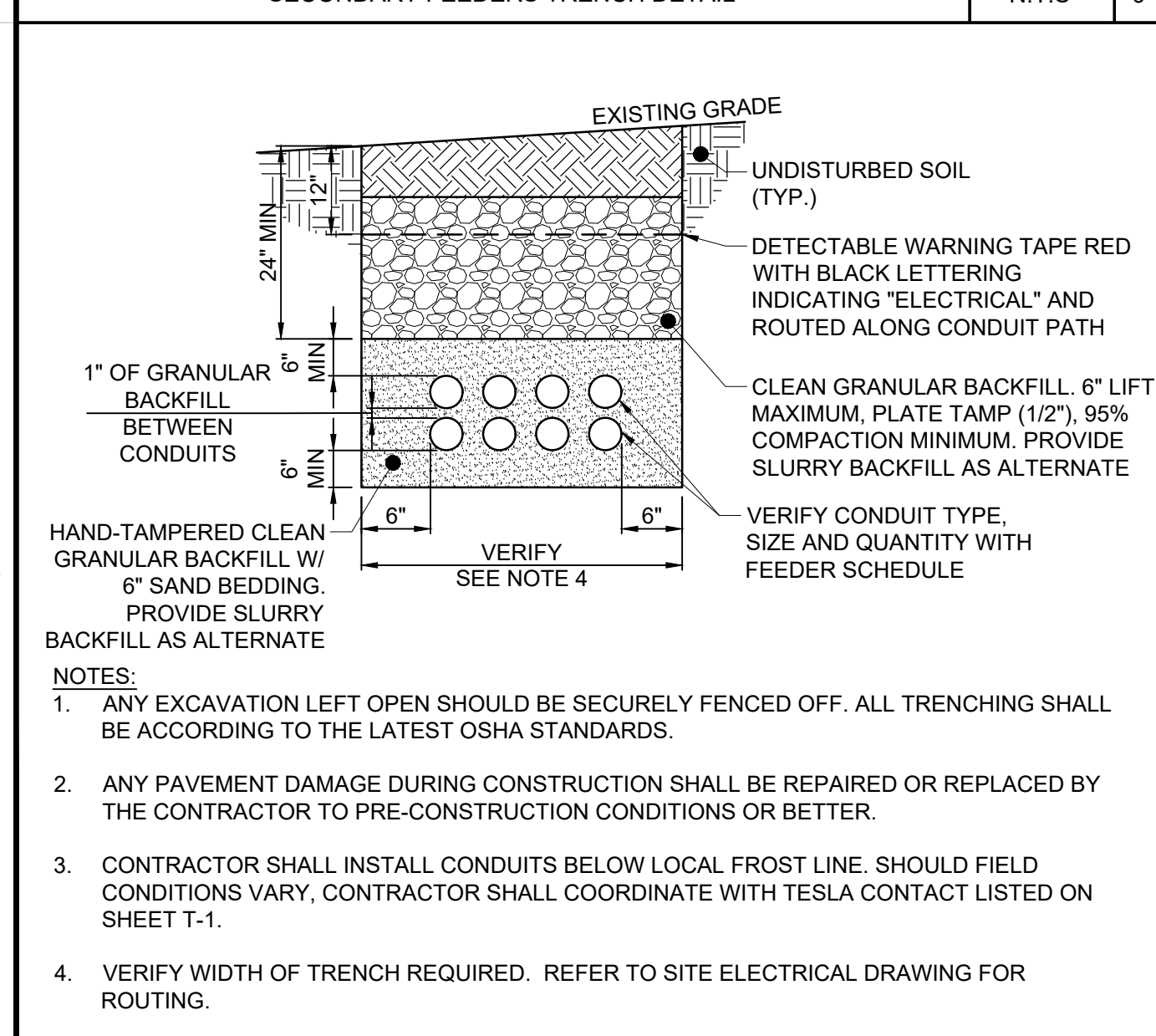


H-FRAME FOUNDATION DETAIL N.T.S 6

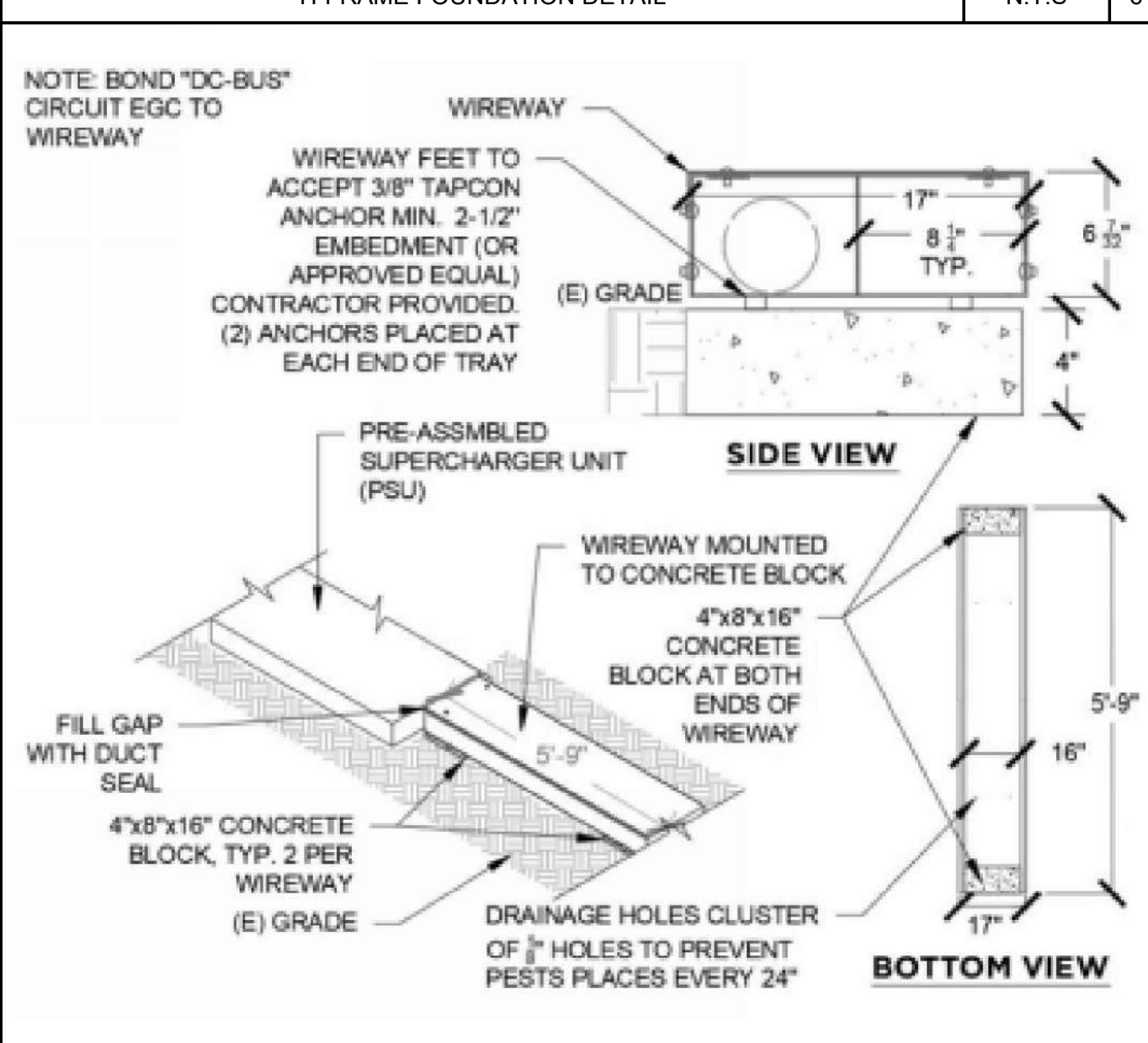


ENCLOSED 600A DISCONNECT MOUNTED TO CABINET DETAIL N.T.S 4

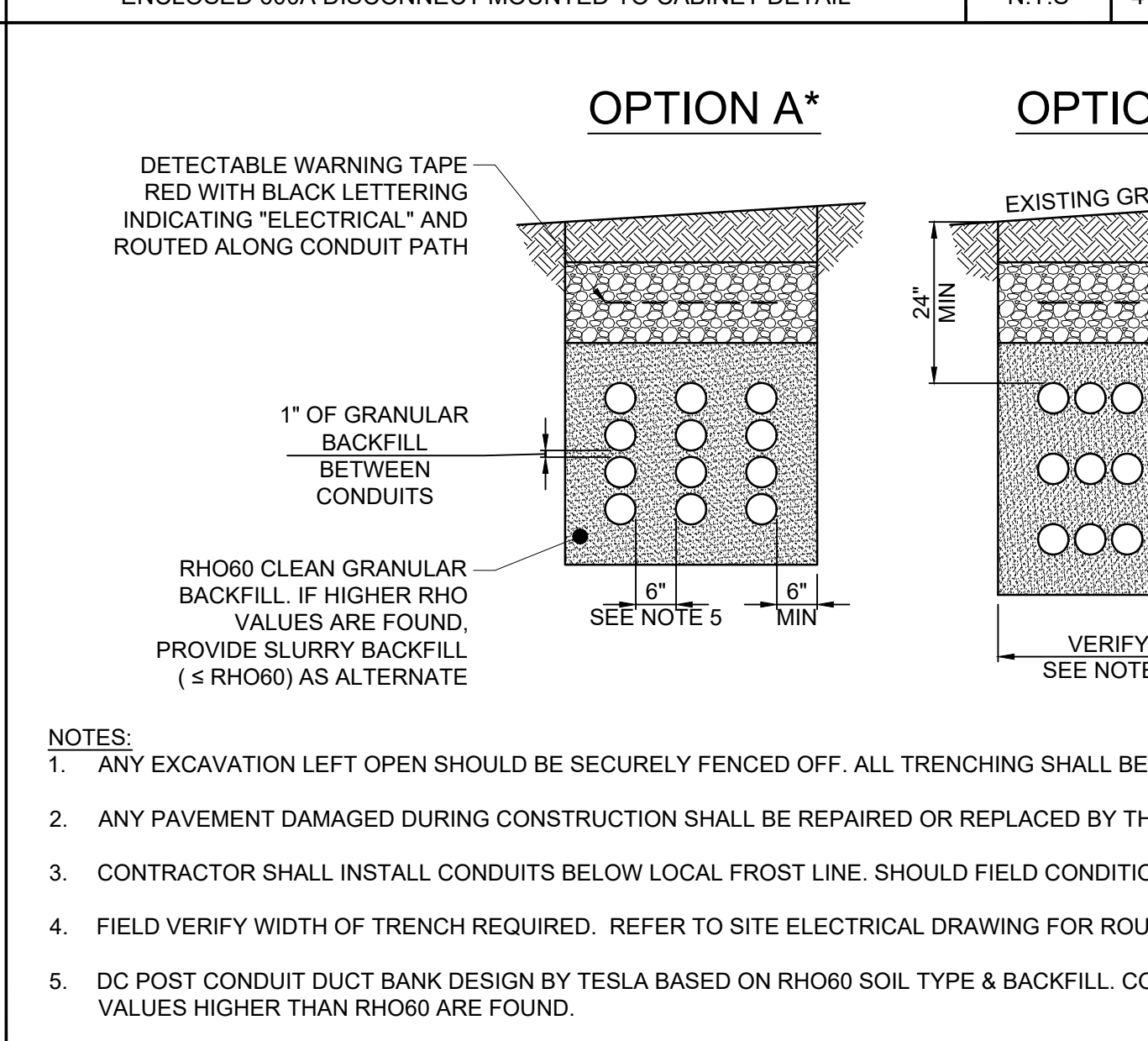
ARC FLASH LABELS N.T.S 1



TYPICAL TRENCH DETAIL N.T.S 10



DC BUS WIREWAY MOUNTING DETAIL N.T.S 7



DC POST CONDUIT TRENCH DETAIL N.T.S 2

- NOTES:
- ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF. ALL TRENCHING SHALL BE ACCORDING TO THE LATEST OSHA STANDARDS.
 - ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
 - CONTRACTOR SHALL INSTALL CONDUITS BELOW LOCAL FROST LINE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH TESLA CONTACT LISTED ON SHEET T-1.
 - FIELD VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING FOR ROUTING.
 - DC POST CONDUIT DUCT BANK DESIGN BY TESLA BASED ON RHO60 SOIL TYPE & BACKFILL. CONTRACTOR SHALL FIELD VERIFY RHO VALUE AND PROVIDE SLURRY BACKFILL (\leq RHO60) IF VALUES HIGHER THAN RHO60 ARE FOUND.

GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

TESLA

3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 991-6000

REV.	DATE	DESCRIPTION
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C	10/18/21	SIGNED AND SEALED

STEVEN P. SCHALIS
NEW MEXICO
21768
PROFESSIONAL ENGINEER
10/19/2021

2200 LOUISIANA BLVD NE
(TESLA STATION)
ALBUQUERQUE, NM 87110

ELECTRICAL
DETAILS

ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
NAMIQ AHMADOV	KSB

JOB NO.
2021095.64

E-3



CITY OF ALBUQUERQUE INVOICE

IAN RUSSELL

520 SOUTH MAIN STREET, SUITE 2531

Reference NO: SI-2021-01835

Customer NO: CU-141210233

Date	Description	Amount
11/04/21	2% Technology Fee	\$1.00
11/04/21	Application Fee	\$50.00

Due Date: **11/04/21**

Total due for this invoice:

\$51.00

Options to pay your Invoice:

1. Online with a credit card: <http://posse.cabq.gov/posse/pub/lms/Default.aspx>
2. In person: Plaza Del Sol, 600 2nd St. NW, Albuquerque, NM 87102

PLEASE RETURN THE BOTTOM PORTION OF THIS INVOICE NOTICE WITH PAYMENT



City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

Date: 11/04/21
Amount Due: **\$51.00**
Reference NO: SI-2021-01835
Payment Code: 130
Customer NO: CU-141210233

IAN RUSSELL
520 SOUTH MAIN STREET, SUITE 2531
AKRON, OH 44311



130 0000SI2021018350009935511480724210000000000005100CU141210233