SUPERCHARGER STATION

2724 SHOWPLACE DRIVE (TESLA SUPERCHARGER)

1

NAPERVILLE, IL 60564

TRT4007413

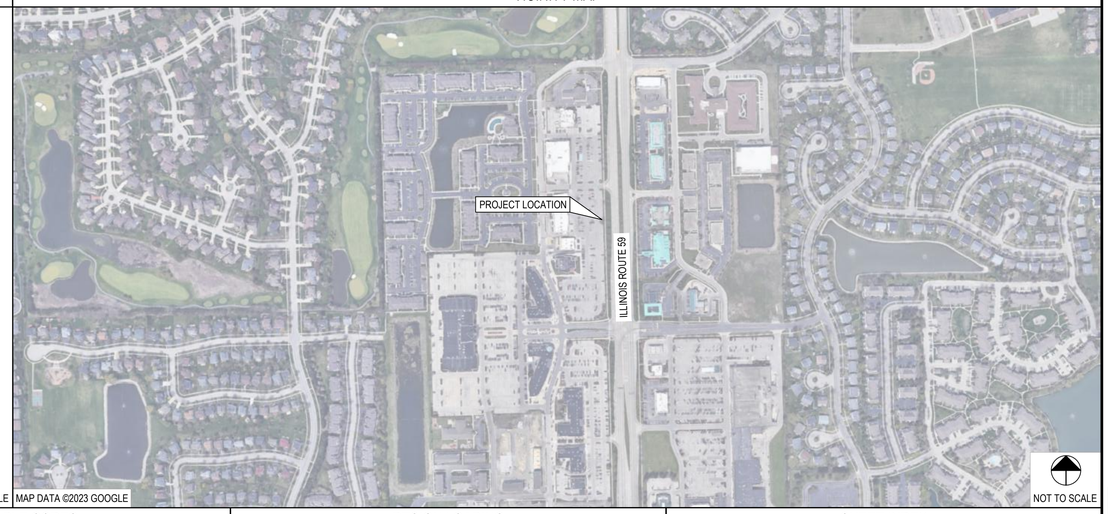
JB-6051973-00

SITE LAYOUT

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

NOT TO SCALE

VICINITY MAP



MAP DATA ©2023 GOOGLE

NOT TO SCALE

SITE INFORMATION

APN
0701044100710000,
CLARK PROJ #: 230250

COUNTY
WILL

LATITUDE (NAV88)
N 41° 42' 53.53"
41.714870°

LONGITUDE (NAV88)
W 88° 12' 22.99"
-88.206386°

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
JULIE, Inc.
811 or 1-800-892-0123

PROJECT CONTACTS

UTILITY COMPANY
NAPERVILLE DPU-E
CONTACT: GIOVANNI HERNANDEZ
(630) 548-1212
GIOVANNI.HERNANDEZ@NAPERVILLE.IL.US

1

PROPERTY OWNER
NAPERVILLE XING / FAE NAPERVILLE

PERMITTING JURISDICTION
CITY OF NAPERVILLE
CONTACT: TBD

EOR CONTACTS:

PROJECT MANAGER
ISAAC MAHAM, PE - OH# 82452
(614) 588-8946
IMAHAM@GPDGROUP.COM

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

2018 INTERNATIONAL BUILDING CODE
2017 NATIONAL ELECTRICAL CODE

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

AS USED HEREIN, IBC SHALL REFER TO INTERNATIONAL BUILDING CODE AND NEC SHALL REFER TO NATIONAL ELECTRIC CODE

IL DEPT OF TRANSPORTATION SPECIFICATIONS
THE STANDARD SPECIFICATIONS OF THE STATE OF IL, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THIS IMPROVEMENT.

PROJECT DESCRIPTION

- INSTALL (5) SUPERCHARGER CABINETS
- INSTALL (20) SUPERCHARGER POSTS
- INSTALL (1) SWITCHGEAR ASSEMBLY WITH INTEGRATED TESLA SITE CONTROLLER AND PRIMARY BROADCAST UNIT
- INSTALL (1) UTILITY TRANSFORMER, (1) METER, (1) CT CABINET, AND OTHER ASSOCIATED UTILITY EQUIPMENT
- INSTALLATION OF (1) SECONDARY BROADCAST UNIT

FLOOD HAZARD NOTE

THE SITE IS LOCATED IN FLOOD ZONE "X" (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FLOOD INSURANCE MAP NUMBER 17197C0030G, EFFECTIVE DATE - 02/15/2019.

PLAN REPRODUCTION WARNING

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

DESIGN LOADING

SNOW LOADS:

GROUND SNOW LOAD (P_g)	25 PSF

LATERAL LOAD DESIGN DATA:

WIND DESIGN DATA (ASCE 7-16):

BASIC WIND SPEED (V_{ULT})	107 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	C

1

SEISMIC DESIGN DATA (ASCE 7-16):

1.0 SEISMIC IMPORTANCE FACTOR (I)	1.0
RISK CATEGORY	II
SITE CLASS (ASSUMED)	D
MAPPED SPECTRAL RESPONSE	
SHORT PERIODS (S_S)	0.138
1 SEC. PERIODS (S_1)	0.067
SPECTRAL RESPONSE COEFF.	
SHORT PERIODS (S_{DS})	0.147
1 SEC. PERIODS (S_{D1})	0.107
SEISMIC DESIGN CATEGORY	B
FROST DEPTH	42 IN

2

REFERENCED DOCUMENTS

- SUPERCHARGER INSTALLATION MANUAL
- SUPERCHARGER POST INSTALLATION MANUAL
- UTILITY DESIGN DOCUMENTS
- ELECTRICAL EQUIPMENT CUTSHEETS

SHEET INDEX

CIVIL	SHEET TITLE
C-001	COVER SHEET
	ENGINEERING DESIGN SURVEY (BY OTHERS)
C-003	CIVIL CONSTRUCTION NOTES
C-004	CITY OF NAPERVILLE STANDARD CONSTRUCTION PLAN NOTES
C-005	CITY OF NAPERVILLE STANDARD CONSTRUCTION PLAN NOTES
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN
C-110	OVERALL CIVIL SITE PLAN
C-111	CIVIL SITE PLAN
C-112	DIMENSION SITE PLAN
C-201	CIVIL DETAILS
C-202	CIVIL DETAILS
C-203	CITY OF NAPERVILLE DETAILS
L-101	LANDSCAPE PLAN
L-201	LANDSCAPE NOTES AND DETAILS
ELECTRICAL	SHEET TITLE
E-001	ELECTRICAL GENERAL NOTES
E-100	OVERALL ELECTRICAL SITE PLAN
E-101	ELECTRICAL SITE PLAN
E-102	PHOTOMETRIC PLAN
E-201	SINGLE LINE DIAGRAM & PANEL SCHEDULE
E-301	ELECTRICAL DETAILS
E-302	UTILITY CUT SHEETS
E-303	UTILITY CUT SHEETS
	EXISTING PHOTOMETRIC PLAN (BY OTHERS)

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

GPD GROUP, INC.®
LIC. # - 184-007100
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
B	07/27/2023	ISSUED FOR 90% REVIEW
C	08/21/2023	REVISED FOR 90% REVIEW
D	09/29/2023	ISSUED FOR SIGN & SEAL
0	11/27/2023	REVISED SS& PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS

Signature 04/12/24
Date 11/30/2025
Exp. Date

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

0

COVER SHEET

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

C-001
PLANNING#: 23-23-100000100
BUILDING#: 24-340

2

Drawing Name: C:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:19 AM - shoneycutt

LEGEND

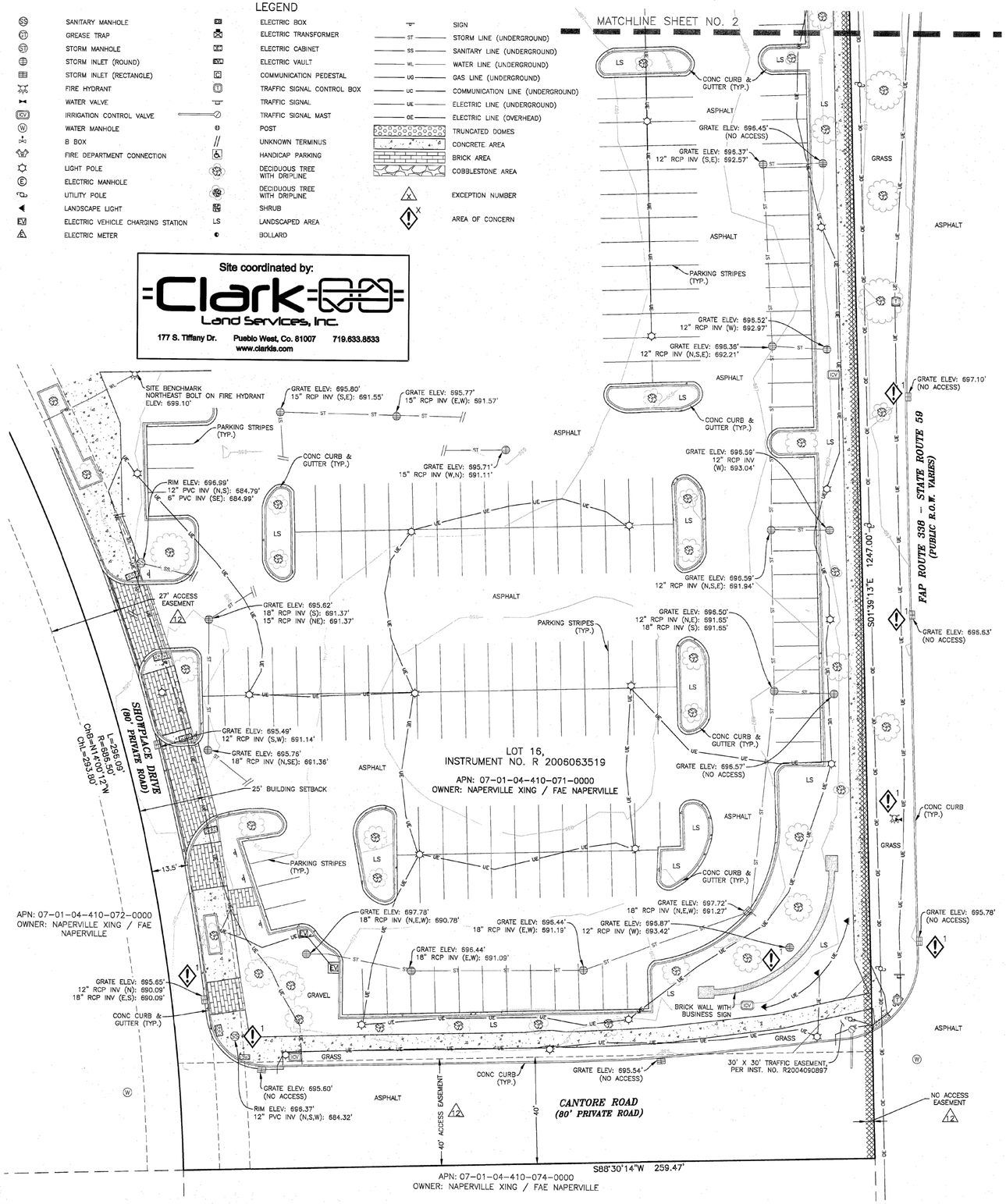
SANITARY MANHOLE	ELECTRIC BOX	SIGN	
GREASE TRAP	ELECTRIC TRANSFORMER	ST	STORM LINE (UNDERGROUND)
STORM MANHOLE	ELECTRIC CABINET	SS	SANITARY LINE (UNDERGROUND)
STORM INLET (ROUND)	ELECTRIC VAULT	WL	WATER LINE (UNDERGROUND)
STORM INLET (RECTANGLE)	COMMUNICATION PEDESTAL	UG	GAS LINE (UNDERGROUND)
FIRE HYDRANT	TRAFFIC SIGNAL CONTROL BOX	UC	COMMUNICATION LINE (UNDERGROUND)
WATER VALVE	TRAFFIC SIGNAL	UE	ELECTRIC LINE (UNDERGROUND)
IRRIGATION CONTROL VALVE	TRAFFIC SIGNAL MAST	OE	ELECTRIC LINE (OVERHEAD)
WATER MANHOLE	POST		TRUNCATED DOMES
B BOX	UNKNOWN TERMINUS		CONCRETE AREA
FIRE DEPARTMENT CONNECTION	HANDICAP PARKING		BRICK AREA
LIGHT POLE	DECIDUOUS TREE WITH DRIPLINE		COBBLESTONE AREA
ELECTRIC MANHOLE	DECIDUOUS TREE WITH DRIPLINE		EXCEPTION NUMBER
UTILITY POLE	SHRUB		AREA OF CONCERN
LANDSCAPE LIGHT	LANDSCAPED AREA		
ELECTRIC VEHICLE CHARGING STATION	BOLLARD		
ELECTRIC METER			

Site coordinated by:

Clark Land Services, Inc.

177 S. Tiffany Dr. Pueblo West, Co. 81007 719.633.8533

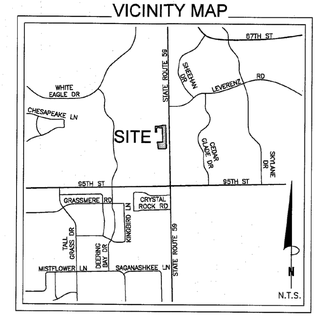
www.clarkls.com



GRAPHIC SCALE

NOT TO SCALE
FOR REFERENCE ONLY

VICINITY MAP



PARENT PARCEL DESCRIPTION:

Lot 16, as shown on Plat of Resubdivision & 2nd Amended Planned Unit Development Plat for Lots 2, 3, 5 and 6 of Naperville Crossings, recorded on April 18, 2006, under Instrument No. R 2006063519, of the Official Public Records of Will County, Illinois.

EASEMENTS & ENCUMBRANCES:

Item No.

1. Subject to Declaration of Easements, Covenants and Restrictions, recorded in Instrument number R2004039599 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE. NOTE: EASEMENTS DESCRIBED HEREIN ARE ALSO SHOWN IN ENCUMBRANCE NO. 12.
2. Subject to Amendment and Restatement of Declaration of Easements, Covenants and Restrictions, recorded in Instrument number R2004108477 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE
3. Subject to Declaration of Easements, Covenants and Restrictions, recorded in Instrument number R2004108480 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
4. Subject to Sign Easement Declaration, recorded in Instrument number R2006084903 in the official records of the Will County Recording Office. –IS NOT LOCATED ON THE SURVEY AREA.
5. Subject to Grant of Temporary Construction Easement, recorded in Instrument number 2006084905 in the official records of the Will County Recording Office. –IS NOT LOCATED ON THE SURVEY AREA.
6. Subject to Temporary Construction Easement Agreement, recorded in Instrument number R2004108481 in the official records of the Will County Recording Office. –IS NOT LOCATED ON THE SURVEY AREA.
7. Subject to An Ordinance Authorizing the execution of an Annexation Agreement, recorded in Instrument number R2004090891 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
8. Subject to First Amendment to the Annexation Agreement, recorded in Instrument number R2004090895 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
9. Subject to Second Amendment to the Annexation Agreement, recorded in Instrument number R2005162802 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
10. Subject to Third Amendment to the Annexation Agreement, recorded in Instrument number R2005211710 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
11. Subject to Fourth Amendment to the Annexation Agreement, recorded in Instrument number R2012088391 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
12. Subject to Plat, recorded in Instrument number R2006063519 in the official records of the Will County Recording Office. –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE AND AS SHOWN HEREON.

Items not listed above are determined non–survey related items and are not plotted hereon.

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 for graphical reference only.
2. Any underground utilities shown have been depicted 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 designated as accurately as possible from the information available. Public utility locate request was made under Ticket No. A230801991. This site was designated by standard RF and GPR methods.
3. FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMette published June 13, 2023, referencing Flood Insurance Rate Map, Map Number 17197C0030G effective date February 15, 2019, indicates this survey area is located in Zone X (Area of minimal flood hazard).
4. This survey does not constitute a title search to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, the surveyor relied upon a Search Report, prepared by Nationwide Abstrax, LLC. with a file number of 2022–0110542–IL, with an index date of March 17, 2022.
5. BENCHMARK: Northeast bolt on fire hydrant, as shown. Elevation: 699.10' (NAVD 88).
6. BASIS OF BEARINGS: Bearings are relative to NAD83, Illinois State Plane Coordinate System, East Zone (1201).
7. Field work for this survey was completed on June 6, 2023.
8. 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.
9. This site is zoned "B2 PUD" (Community Shopping Center District: Planned Unit Developments) per City of Naperville Planning and Zoning Commission.
   "B2" Minimum Yard Setbacks:
   Front: 25', equal to minimum front yard of the abutting Residence district,
   Side and Rear yard abutting R3 zone: 12'
   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 Naperville Planning and Zoning Commission at (630)420–6694.

AREAS OF CONCERN:

1. Unable to determine location of underground utility lines near above ground utility features.

Surveyor can revise if provided with as–built surveys or utility maps.

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 Illinois 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.

George H. Skulavik
6-21-2023

George H. Skulavik
Illinois Professional Land Surveyor No. 2580

PROFESSIONAL LAND SURVEYOR GEORGE H. SKULAVIK 035-002580 MONTGOMERY, ILLINOIS STATE OF ILLINOIS

Ridgeline Consultants — Consulting Engineers • Land Surveyors

No.	Revisions Description	By	Date
1	ADDITIONAL SURVEY	VMP	6/14/2023

SITE NAME: Naperville Crossings

ENGINEERING DESIGN SURVEY

A PORTION OF THE SE1/4 OF SECTION 4, TOWNSHIP 37 NORTH, RANGE 9 EAST, THIRD PRINCIPAL MERIDIAN, CITY OF NAPERVILLE, WILL COUNTY, STATE OF ILLINOIS.

Project No. 230250

Drawn By: CMP | Date: 03/28/2023

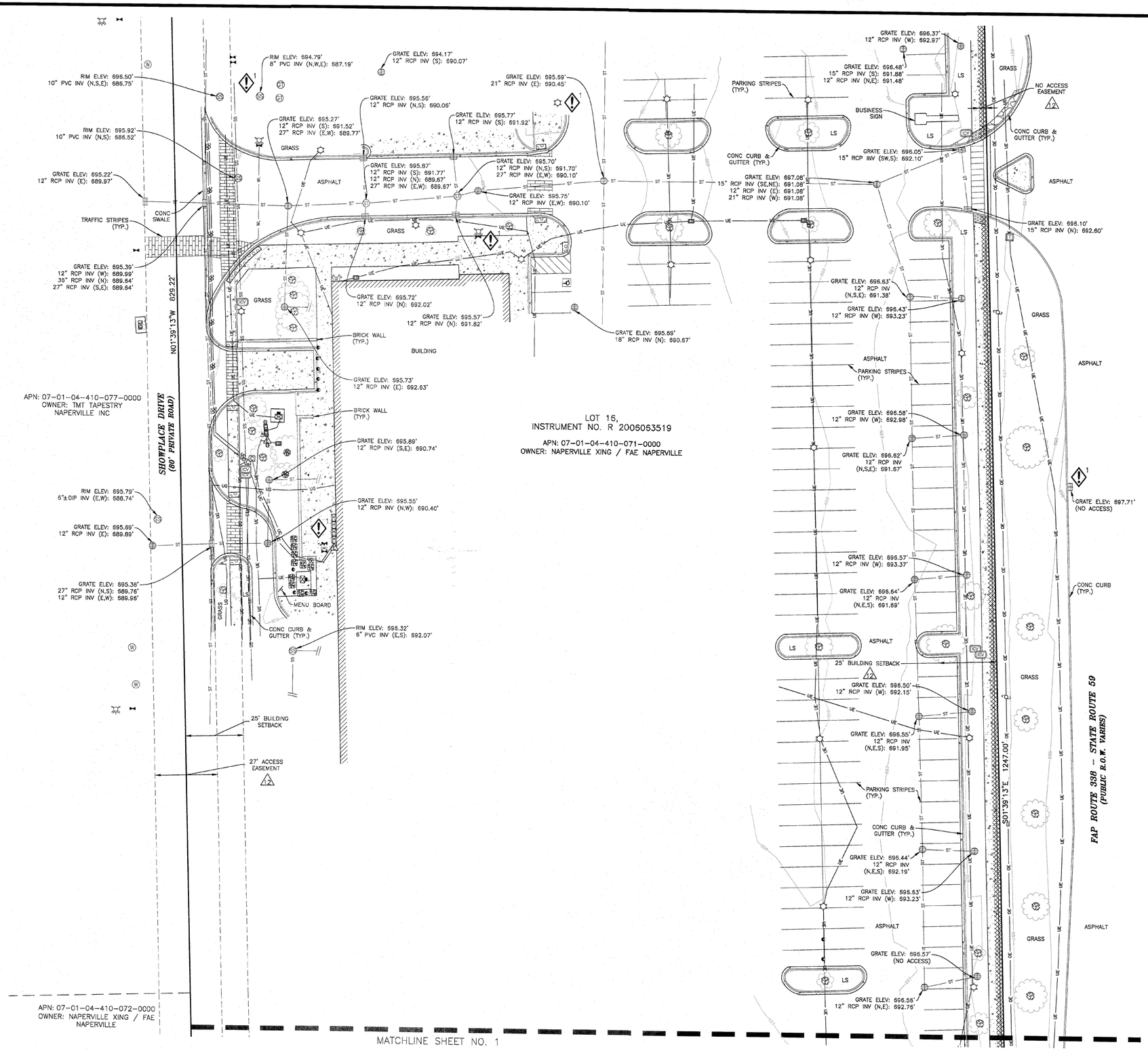
Checked By: GHS | Sheet 1 of 2

GRAPHIC SCALE

NOT TO SCALE
FOR REFERENCE ONLY

LEGEND

- SANITARY MANHOLE
- GREASE TRAP
- STORM MANHOLE
- STORM INLET (ROUND)
- STORM INLET (RECTANGLE)
- FIRE HYDRANT
- WATER VALVE
- IRRIGATION CONTROL VALVE
- WATER MANHOLE
- B BOX
- FIRE DEPARTMENT CONNECTION
- LIGHT POLE
- ELECTRIC MANHOLE
- UTILITY POLE
- LANDSCAPE LIGHT
- ELECTRIC VEHICLE CHARGING STATION
- ELECTRIC METER
- ELECTRIC BOX
- ELECTRIC TRANSFORMER
- ELECTRIC CABINET
- ELECTRIC VAULT
- COMMUNICATION PEDESTAL
- TRAFFIC SIGNAL CONTROL BOX
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL MAST
- POST
- UNKNOWN TERMINUS
- HANDICAP PARKING
- DECIDUOUS TREE WITH DRIPLINE
- DECIDUOUS TREE WITH DRIPLINE
- SHRUB
- LANDSCAPED AREA
- BOLLARD
- SIGN
- ST — STORM LINE (UNDERGROUND)
- SS — SANITARY LINE (UNDERGROUND)
- WL — WATER LINE (UNDERGROUND)
- UG — GAS LINE (UNDERGROUND)
- UC — COMMUNICATION LINE (UNDERGROUND)
- UE — ELECTRIC LINE (UNDERGROUND)
- OE — ELECTRIC LINE (OVERHEAD)
- TRUNCATED DOMES
- CONCRETE AREA
- BRICK AREA
- COBBLESTONE AREA
- EXCEPTION NUMBER
- AREA OF CONCERN



Site coordinated by:

Clark Land Services, Inc.

177 S. Tiffany Dr. Pueblo West, Co. 81007 719.633.8533
www.clarkls.com

Ridgeline CONSULTANTS
CONSULTING ENGINEERS – LAND SURVEYORS

No.	Description	By	Date
1	ADDITIONAL SURVEY	VMP	6/14/2023

Revisions

SITE NAME:
Naperville Crossings

ENGINEERING DESIGN SURVEY

A PORTION OF THE SE1/4 OF SECTION 4,
TOWNSHIP 37 NORTH, RANGE 9 EAST, THIRD PRINCIPAL MERIDIAN,
CITY OF NAPERVILLE, WILL COUNTY, STATE OF ILLINOIS.

Project No. 230250

Drawn By: CMP
Checked By: GHS

Date: 03/28/2023
Sheet 2 of 2

DEFINITIONS

FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:

OWNER: TESLA
PROPERTY OWNER: NAPERVILLE XING / FAE NAPERVILLE

GENERAL CONSTRUCTION NOTES

1. THE TOPOGRAPHIC SURVEY BY OTHERS SHALL BE REFERENCED WITH THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING PROPOSED IMPROVEMENTS PER THESE PLANS.
2. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS. DUE TO THE LIMITATIONS IN TECHNOLOGY AND GROUND CONDITIONS, NOT ALL UNDERGROUND UTILITIES ARE ABLE TO BE LOCATED. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.
3. ALL PROPERTY LINES, RIGHT OF WAYS, CENTERLINES, DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON A TOPOGRAPHIC SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
4. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN CHARGE FOR THE OWNER OF ANY DISCREPANCIES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT THE CONTRACTOR'S SOLE EXPENSE.
5. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE OWNER FOR APPROVAL BEFORE MAKING ANY CHANGES. DEVIATION FROM PLANS BEFORE WRITTEN APPROVAL FROM OWNER PLACES LIABILITY ON THE CONTRACTOR.
6. UNLESS OTHERWISE NOTED, ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND THE PROPOSED IMPROVEMENTS TO MATCH EXISTING FINISHES.
7. APPROVALS FROM BUILDING INSPECTORS SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS.
8. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE ARRANGEMENTS FOR THE PROPOSED SCOPE OF WORK. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD DOCUMENTS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
9. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
10. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND FEDERAL, STATE AND LOCAL JURISDICTION CODES, ORDINANCES AND APPLICABLE REGULATIONS.
11. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
12. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
13. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
14. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE OWNER PRIOR TO PROCEEDING.
15. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
16. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
17. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
18. 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 PROPERTY OWNER.
19. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
20. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
21. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION. 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. GRAFFITI ON TEMPORARY FENCING SHALL BE PAINTED OVER WITHIN ONE DAY OF DISCOVERY. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
22. 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.
23. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
24. ONLY ITEMS SPECIFICALLY CALLED OUT TO BE REMOVED OR DEMOLISHED SHALL BE AFFECTED. ANY ITEMS INCLUDING, BUT NOT LIMITED TO, CURBS, PAVEMENT, UTILITY ITEMS, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AFFECTED ITEMS AT OWNERS DISCRETION.
25. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
26. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
27. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE EPA AND FEDERAL, STATE, LOCAL JURISDICTIONS FOR EROSION AND SEDIMENT CONTROL. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.
28. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
29. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 98 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT, SIDEWALKS, STRUCTURES AND OPEN SPACES. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
30. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
31. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
32. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
33. AT THE END OF EACH WORK DAY AND FINAL TURNOVER TO OWNER, THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS IN A LAWFUL MANNER AND LEAVE PREMISES IN A CLEAN CONDITION. CONTRACTOR SHALL REMOVE ANY METAL SHAVING FROM WORK SITE WHERE OXIDIZED OR CONDUCTIVE SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.
34. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR AND OWNER IMMEDIATELY.
35. CONTRACTOR IS RESPONSIBLE FOR CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.
36. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE CONTRACTOR.
37. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE STAKEHOLDER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
38. GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION PER THE TABLE BELOW:

SIEVE SIZE	TOTAL PERCENT PASSING
1-1/2" (37.50 MM)	100
1" (25.00 MM)	75 TO 100
3/4" (19.00 MM)	80 TO 100
3/8" (9.50 MM)	35 TO 75
No. 4 (4.75 MM)	30 TO 60
No. 30 (0.60 MM)	7 TO 30
No. 200 (0.75 MM)	3 TO 15

39. GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SW-SM).
40. UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTICS SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.
41. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
42. NO STRUCTURAL ELEMENTS ARE TO BE CUT UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER.

PAVEMENT MARKING NOTES

1. ALL PAVEMENT MARKINGS TO MATCH EXISTING CONDITIONS, UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL OR WHERE LOCAL AHJ CODE DICTATES OTHERWISE.
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. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3723, D1475, D562 AND D711.
4. PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.
5. APPLY 2 COATS WITHIN THE SAME DAY, UTILIZING STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.

GENERAL FOUNDATION NOTES

1. THE CONTRACTOR SHALL RETAIN AN OWNER APPROVED AND QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE OWNER SHALL RECEIVE COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY SAID GEOTECHNICAL ENGINEER. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND.
2. AT A MINIMUM ALL FILLED AND SUBGRADE AREAS SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM.
3. 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.
4. 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.
5. CONTRACTOR SHALL COMPACT SUBGRADE. SEE FROST/NO FROST DESIGN NOTES THIS SHEET.
6. FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF UNLESS NOTED OTHERWISE.
7. NEW FOOTINGS PLACED ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.
8. STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.
9. 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.
10. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
11. 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.
12. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES PRIOR TO EXCAVATION. IF NECESSARY, UTILITIES SHALL BE RELOCATED PRIOR TO FOUNDATION INSTALLATION.

FROST DESIGN NOTES

(BOTTOM OF FOUNDATIONS 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 LATERALLY 2/3RD 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. LOCAL FROST DEPTH IS LISTED ON SHEET C-001. CONTRACTOR SHALL VERIFY LOCAL FROST DEPTH WITH AHJ PRIOR TO CONSTRUCTION.
3. GEOTEXTILE (FILTER FABRIC) SHOULD BE PLACED BETWEEN THE GRANULAR BACKFILL AND COHESIVE SOILS TO PRECLUDE THE INFILTRATION OF FINES. SPEC AS FOLLOWS:

   SEPARATION GEOTEXTILE: WOVEN GEOTEXTILE FABRIC, MANUFACTURED FOR SEPARATION APPLICATIONS, MADE FROM POLYOLEFINS OR POLYESTERS; WITH ELONGATION LESS THAN 50 PERCENT; COMPLYING WITH AASHTO M 288 AND THE FOLLOWING, MEASURED PER TEST METHODS REFERENCED:
   - SURVIVABILITY: CLASS 2; AASHTO M 288.
   - GRAB TENSILE STRENGTH: 247 LBF (1100 N); ASTM D 4632.
   - SEWN SEAM STRENGTH: 222 LBF (990 N); ASTM D 4632.
   - TEAR STRENGTH: 90 LBF (400 N); ASTM D 4533.
   - PUNCTURE STRENGTH: 90 LBF (400 N); ASTM D 4833.
   - APPARENT OPENING SIZE: NO. 60 (0.250-MM) SIEVE, MAXIMUM; ASTM D 4751.
   - PERMITTIVITY: 0.02 PER SECOND, MINIMUM; ASTM D 4491.
   - UV STABILITY: 50 PERCENT AFTER 500 HOURS' EXPOSURE; ASTM D 4355.

NO FROST DESIGN NOTES

(BOTTOM OF FOUNDATIONS 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.

SPECIAL INSPECTIONS

THE CLIENT 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.

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-16, "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.
3. 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.
4. 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.
5. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS: ALL CONCRETE - 4500 PSI. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (± 1%) AIR ENTRAINMENT.
6. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
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.
    REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4500 PSI CONCRETE.

	OTHER		TOP*	
	ANCHORAGE	SPLICE	ANCHORAGE	SPLICE
#3	15	19	19	24
#4	19	25	25	33
#5	24	31	31	41
#6	29	37	37	49

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

11. NON-SHRINK GROUT SHALL MEET A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6000 PSI.
12. ADD 100% TIES FOR REBAR OVERLAY. NO COLD JOINTS SHALL BE PERMITTED DURING CONSTRUCTION.

STRUCTURAL STEEL

1. MATERIAL PROPERTIES:
   PLATE: ASTM A36 UNO
   PIPE: ASTM A53, TYPE E OR S, GRADE
   TUBE: ASTM A1085 GRADE A (Fy = 50 KSI)
   WIDE FLANGE: ASTM A992 (Fy = 50 KSI)
2. DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2016 AISC (360-16) SPECIFICATIONS.
3. ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS.
4. FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.
5. ALL EXPOSED STRUCTURAL STEEL, ANCHOR RODS AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
6. UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 Gr 55 WITH HEAVY HEXAGONAL NUT.
7. 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.

TRAFFIC CONTROL NOTES

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

LEGEND					
EX. PROPERTY LINE	P/L	EX. UG SANITARY SEWER LINE	SAN	EX. STORM MANHOLE	EX. ELECTRIC HANDHOLE/VAULT
EX. FENCING		EX. UG STORM SEWER LINE	ST	EX. FIRE HYDRANT	EX. TELEPHONE MANHOLE
EX. UG ELECTRICAL LINE	E E	EX. TELEPHONE LINE	T T	EX. GAS VALVE	EX. FIRE DEPARTMENT CONNECTION
EX. OH ELECTRICAL LINE	OH	EX. UG WATER LINE	W W	EX. GAS METER	EX. ELECTRIC TRANSFORMER
EX. UG FIBER LINE	F F	EX. WATER VALVE	EX. UTILITY POLE	EX. WATER MANHOLE	EX. A/C UNIT AC EX. BOLLARD
EX. UG GAS LINE	GAS	EX. CATCH BASIN	EX. IRRIGATION VALVE ICV	EX. WATER VAULT	EX. SIGN EX. CLEANOUT
		EX. LIGHT POLE	EX. SANITARY MANHOLE	EX. WATER METER	EX. TREE EX. SHRUB

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REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
B	07/27/2023	ISSUED FOR 90% REVIEW
C	08/21/2023	REVISED FOR 90% REVIEW
D	09/29/2023	ISSUED FOR SIGN & SEAL
0	11/27/2023	REVISED S&S PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS

Signature
Date 04/12/24
Exp. Date 11/30/2025

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

CIVIL
CONSTRUCTION NOTES

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

C-003
PLANNING#: 23-23-100000100
BUILDING#: 24-340
2

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Transportation, Engineering and Development Business Group
Standard Construction Plan Notes for Development Projects
AUGUST 2023

The City of Naperville Transportation, Engineering and Development (TED) Business Group has established Standard Notes, which should be included in the final engineering plans for private development projects. The Standard Notes are broken out by type of work. The Consultant designing the final engineering plans should review the lists below to determine which Standard Notes should be included.

Please note that the City of Naperville Department of Public Utilities – Water/Wastewater (DPU-W) has their own Standard Notes they require for water and sanitary sewer work in private development final engineering plans. Please contact DPU-W for the Water/Wastewater Standard Notes.

General Notes
The General Notes in this section should be included in all final engineering plans regardless of the type of project.

1	THE OWNER OR THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).
3	ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
4	THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5	THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
6	PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
7	THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.
8	A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.

9	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
10	THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6100 OPTION 1 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
11	RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
12	FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.

General Notes (Project Specific)
The Consultant should review the following General Notes to determine if they are applicable to the work to be completed with the project. Those Notes that are applicable should be included in the engineering plans.

1	TRAFFIC SIGNALS AND THEIR ASSOCIATED EQUIPMENT UNDER THE JURISDICTION OF DUPAGE COUNTY ARE NOT INCLUDED IN THE JULIE SYSTEM. THE CONTRACTOR SHALL CONTACT DUPAGE COUNTY DOT AND IDOT DIRECTLY REGARDING THE LOCATION OF TRAFFIC SIGNALS (CABLING AND ASSOCIATED SYSTEMS) UNDER DUPAGE COUNTY OR IDOT JURISDICTION.

Storm Sewer Notes (General)
The Storm Sewer Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
2	THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.

Storm Sewer Notes (Storm Sewer Work in Plans)
The Storm Sewer Notes in this section are intended to be included when a project includes storm sewer work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

The first note provided below includes information regarding all the allowable storm sewer pipe materials. Only those materials that are identified on the plans are required to be included. However, if the contractor requests a change to the pipe material and the associated pipe material information is not included in the engineering plans, the applicable Storm Sewer Note will need to be added to final engineering plans the as part of the Field Change request.

1	THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:
1a	REINFORCED CONCRETE PIPE (RCP) - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.
1b	NON-REINFORCED CONCRETE PIPE - NON-REINFORCED CONCRETE PIPE SHALL BE ALLOWED FOR PIPES WITH A 10 INCH OR SMALLER DIAMETER. NON-REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 14, CLASS 3. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433.

1c	DUCTILE IRON PIPE (DIP) - DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151), CLASS THICKNESS DESIGNED PER ANSI A 21.50 (AWWA C-150), TAR (SEAL) COATED AND CEMENT LINED PER ANSI A 21.4 (AWWA C-104), WITH MECHANICAL OR RUBBER RING (SLIP SEAL OR PUSH ON) JOINTS. ALL DUCTILE IRON PIPE SHALL BE WRAPPED WITH POLYETHYLENE.
1d	POLYVINYL CHLORIDE PIPE (PVC) - POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. THE MINIMUM STANDARD DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH (317 KPA). JOINTS FOR PVC PIPE SHALL BE FLEXIBLE ELASTOMETRIC SEALS PER ASTM D 3212.
1e	HIGH DENSITY POLYETHELYNE PIPE (HDPE) - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED.
1f	FULLY GALVANIZED CORRUGATED STEEL PIPE - FULLY GALVANIZED CORRUGATED STEEL PIPE MAY BE USED FOR RESIDENTIAL DRIVEWAY CROSSINGS ONLY WHEN A DITCH SECTION IS PRESENT. THE MINIMUM CULVERT SIZE IS 12" DIAMETER.
2	BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.
3	BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
4	JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS; CASCADE CSS, ROMAC LSS, FERNCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.
5	MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.
6	MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.

7	MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.
8	CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. A) PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, NEENAH R-2502, OR APPROVED EQUAL FOR OPEN GRATES. EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE A SOLID COVER, NEENAH R-1772, OR APPROVED EQUAL FOR CLOSE LIDS. B) BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, NEENAH R-3278-A, OR APPROVED EQUAL. C) DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, NEENAH R-3225-L, OR APPROVED EQUAL. D) MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, NEENAH R-3501-P, OR APPROVED EQUAL. E) NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, NEENAH R-4340-B, OR APPROVED EQUAL. ALTERNATELY, IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.
9	THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, AND SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE NAPERVILLE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS. THE STEEL CASING PIPE SHALL HAVE MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A139/A139M-04 (OR LATEST EDITION), GRADE B. RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVELED ENDS TO FACILITATE FIELD WELDING.
10	ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER AND SANITARY SEWER BE ALLOWED.
11	FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1-FOOT BY 1-FOOT

	SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.
12	ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NON-SHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING. WHEN ADJUSTMENTS ARE NECESSARY, NO MORE THAN 12 INCHES OF VERTICAL ADJUSTMENT MAY BE MADE USING THE MINIMUM PRACTICAL NUMBER OF INDIVIDUAL RINGS. ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY. A RESILIENT, FLEXIBLE, NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSEAL 102 B OR APPROVED EQUAL, SHALL BE USED BETWEEN THE CONE OR TOP BARREL SECTION OF THE STRUCTURE AND THE ADJUSTING RINGS. A THICK BEAD OF NON-HARDENING ELASTOMERIC JOINT SEALANT CONFORMING TO ASTM C-920, TYPE S, GRADE NS, SHALL BE APPLIED BETWEEN ALL INDIVIDUAL RINGS, AND BETWEEN THE ADJUSTING RINGS AND THE FRAME. THE SEALANT OR MASTIC MATERIAL SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE STRUCTURE.

Erosion Control and Drainage Notes (General)
The Erosion Control and Drainage Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2	DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
3	DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

Erosion Control and Drainage Notes (Project Specific)
The Erosion Control and Drainage Notes in this section are intended to be included when a project includes erosion control work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

1	ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
2	ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
3	ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. STRAW BALES SHALL NOT BE USED.
4	STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.
5	ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH OR GREATER RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

Erosion Control and Drainage Notes (NPDES Permit)
The Erosion Control and Drainage Note in this section should be included if the project requires an NPDES permit.

1	IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

Geometric and Paving Notes (General)
The Geometric and Paving Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.
2	ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
3	THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
4	THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
5	WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.
6	ALL PAVEMENT PATCHES WITHIN THE PUBLIC RIGHT-OF-WAY MUST CONFORM TO CITY STANDARDS. REFERENCE NAPERVILLE STANDARD DETAILS 590.12 AND 590.13.

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LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS
Signature 04/12/24
Date 11/30/2025
Exp. Date

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CITY OF NAPERVILLE STANDARD CONSTRUCTION PLAN NOTES

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

C-004
PLANNING#: 23-23-100000100
BUILDING#: 24-340
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Traffic Control and Protection Notes (General)
The Traffic Control and Protection Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET-UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.
2	PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE. SAID PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.
3	THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.
4	ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

Traffic Control and Protection Notes (Arterial Roads)
The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project involves work either in or adjacent to arterial roadways.

1	LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE NOT PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION.
2	ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROW BOARD AS PART OF THE TRAFFIC CONTROL.

3	AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC. ANY OPEN HOLES MUST BE PLATED OR COLD PATCHED; THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.

Traffic Control and Protection Notes (Downtown)
The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project is located in downtown Naperville.

1	PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN THE DOWNTOWN. IF A PEDESTRIAN DETOUR CANNOT BE ACCOMMODATED, THE CITY MAY REQUIRE THE CONTRACTOR TO PROVIDE A PROTECTED COVERED WALKWAY.
2	ANY WORK IMPACTING THE PUBLIC RIGHT-OF-WAY SHALL NOT BE ALLOWED IN THE DOWNTOWN ON A FRIDAY, SATURDAY, SUNDAY, AND/OR HOLIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER.
3	ALL WORK IN THE DOWNTOWN SHALL BE COORDINATED WITH THE DOWNTOWN NAPERVILLE ALLIANCE (DNA) TO AVOID CONFLICT WITH SPECIAL EVENTS.
4	UNLESS REQUIRED TO SUPPORT THE CURRENT WORK EFFORT, WORKERS' PERSONAL VEHICLES MAY NOT BE PARKED ON-STREET. CONTRACTORS MAY REQUEST HANGTAGS FROM THE CITY TO ALLOW WORKERS TO PARK IN DESIGNATED AREAS WITHIN THE CITY PARKING DECKS.

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LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS

Signature 04/12/24
Date
11/30/2025
Exp. Date

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CITY OF NAPERVILLE STANDARD CONSTRUCTION PLAN NOTES

PROJECT MANAGER	DESIGNER
IM	NSE

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C-005
PLANNING#: 23-23-100000100
BUILDING#: 24-340
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GENERAL SHEET NOTES

1. EXISTING PROPERTY LINES, RIGHT-OF-WAY BOUNDARIES, EASEMENT BOUNDARIES, SETBACKS, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY.
2. WHEN REQUIRED, CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS OR PAVEMENT MODIFICATIONS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS AND/OR MODIFICATIONS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.

PLAN KEYNOTES

1. EXISTING CURB AND GUTTER TO BE REMOVED.
2. EXISTING TREE TO BE REMOVED. APPROXIMATELY 12" DBH. CONTRACTOR SHALL VERIFY EXACT SIZE AND TYPE IN FIELD.
3. EXISTING TREE TO BE REMOVED (TYPICAL OF 2). APPROXIMATELY 8" DBH. CONTRACTOR SHALL VERIFY EXACT SIZE AND TYPE IN FIELD.
4. EXISTING LIGHT POLE TO BE RELOCATED (TYPICAL OF 2). CONTRACTOR SHALL BACKFILL WITH COMPACTED MATERIAL. SEE SITE PLAN FOR PROPOSED LOCATION.
5. ALL EXISTING PAVEMENT MARKINGS TO BE REMOVED. CONTRACTOR SHALL REMOVE MARKINGS WITH SMALL HANDHELD GRINDERS, SCARIFIERS, BEAD BLASTING, SAND BLASTING, WATER BLASTING OR OTHER METHODS, WITH THE APPROVAL OF THE ENGINEER OF RECORD. TAKE CARE DURING MARKING REMOVAL TO NOT SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT SURFACE. DO NOT OVER PAINT OR USE OTHER METHODS OF COVERING MARKINGS IN LIEU OF REMOVAL. WATER BLASTING METHOD SHALL NOT BE USED DURING FREEZING WEATHER CONDITIONS.

LEGEND

(SEE SHEET C-003 FOR EXISTING LEGEND)

- EXISTING ASPHALT TO BE REMOVED. TRENCHING NOT INCLUDED.
- EXISTING LANDSCAPING TO BE REMOVED.
- # L.F.± — DENOTES LIMITS OF PAVEMENT DISTURBANCE IN LINEAR FOOT (L.F.)
- PROPOSED INLET PROTECTION. CONTRACTOR TO VERIFY PER LOCAL JURISDICTION'S BEST MANAGEMENT PRACTICES.
- APPROXIMATE LIMITS OF DISTURBANCE

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EXISTING CONDITIONS AND DEMOLITION PLAN

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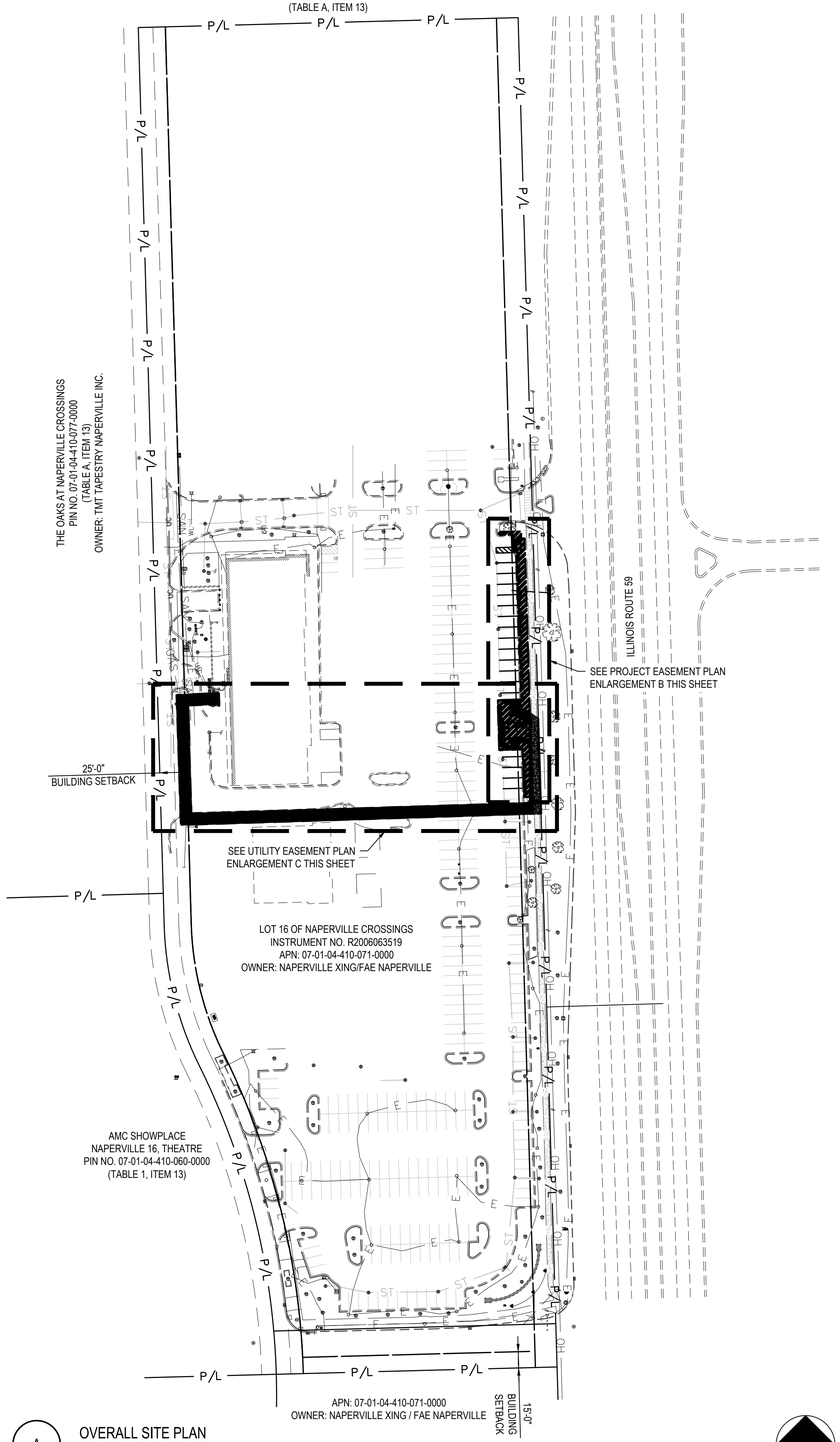
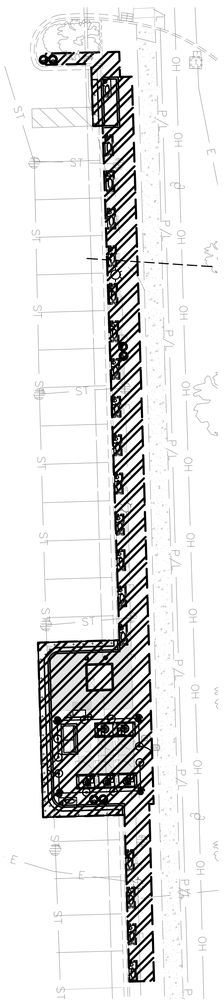
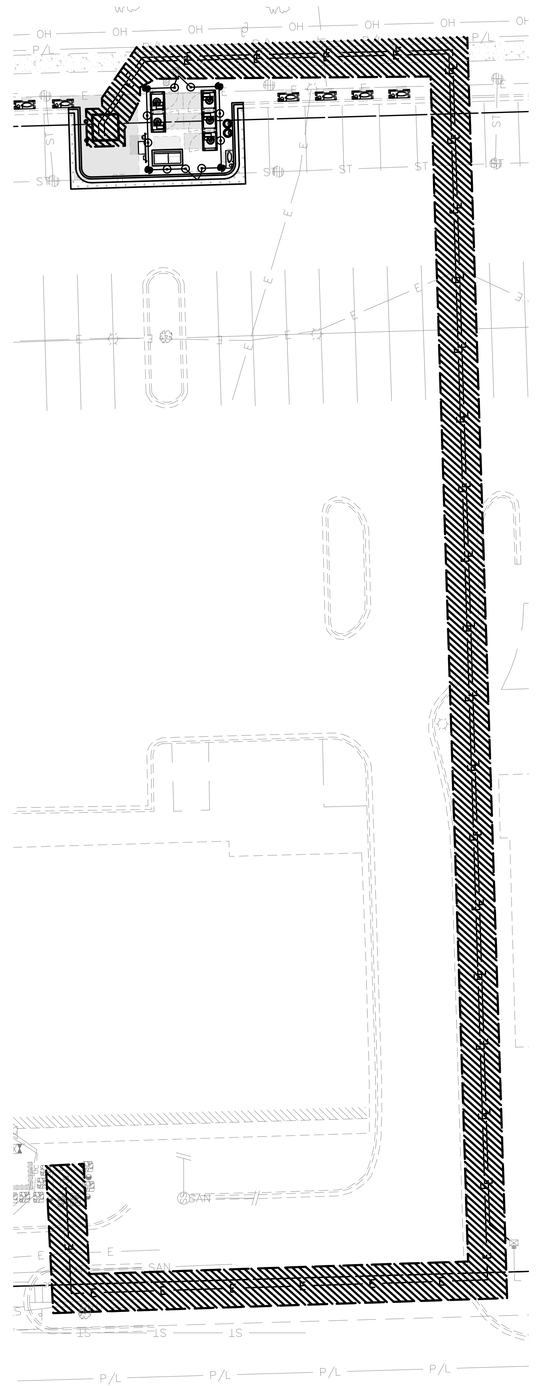


A OVERALL SITE PLAN
1" = 70'



B PROJECT EASEMENT PLAN
1" = 20'



C UTILITY EASEMENT PLAN
1" = 20'

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

GPD GROUP, INC.®
LIC. # - 184-007100
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
B	07/27/2023	ISSUED FOR 90% REVIEW
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D	09/29/2023	ISSUED FOR SIGN & SEAL
0	11/27/2023	REVISED S&S PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS

Signature
Date 04/12/24
Exp. Date 11/30/2025

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

OVERALL
CIVIL SITE PLAN

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

C-110
PLANNING#: 23-23-100000100
BUILDING#: 24-340
1

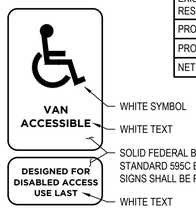
Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:20 AM - shoneycutt

SUPERCHARGER POST SCHEDULE

CABINET	POST	SIGN TYPE
1	1A	VAN ACCESSIBLE
	1B	N/A
	1C	N/A
	1D	N/A
2	2A	N/A
	2B	N/A
	2C	N/A
	2D	N/A
3	3A	N/A
	3B	N/A
	3C	N/A
	3D	N/A
4	4A	N/A
	4B	N/A
	4C	N/A
	4D	N/A
5	5A	N/A
	5B	N/A
	5C	N/A
	5D	N/A

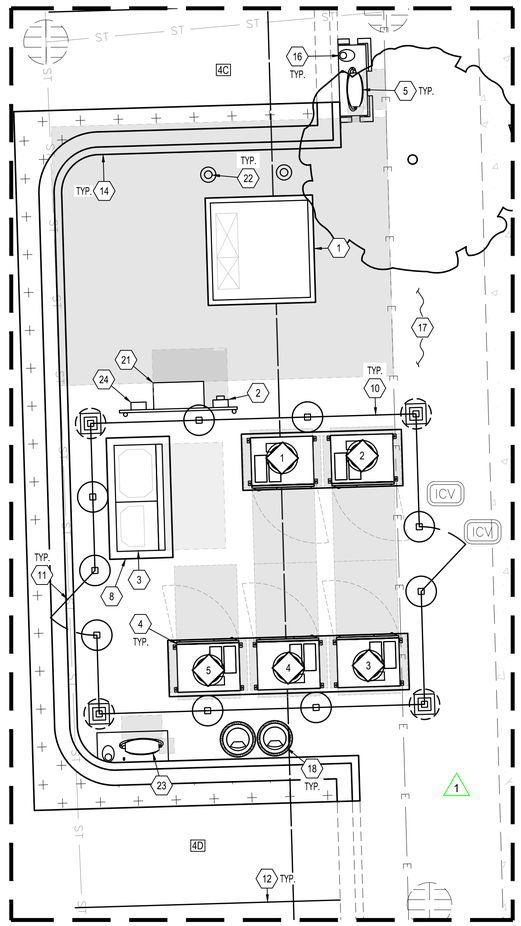
SIGNAGE

VAN ACCESSIBLE

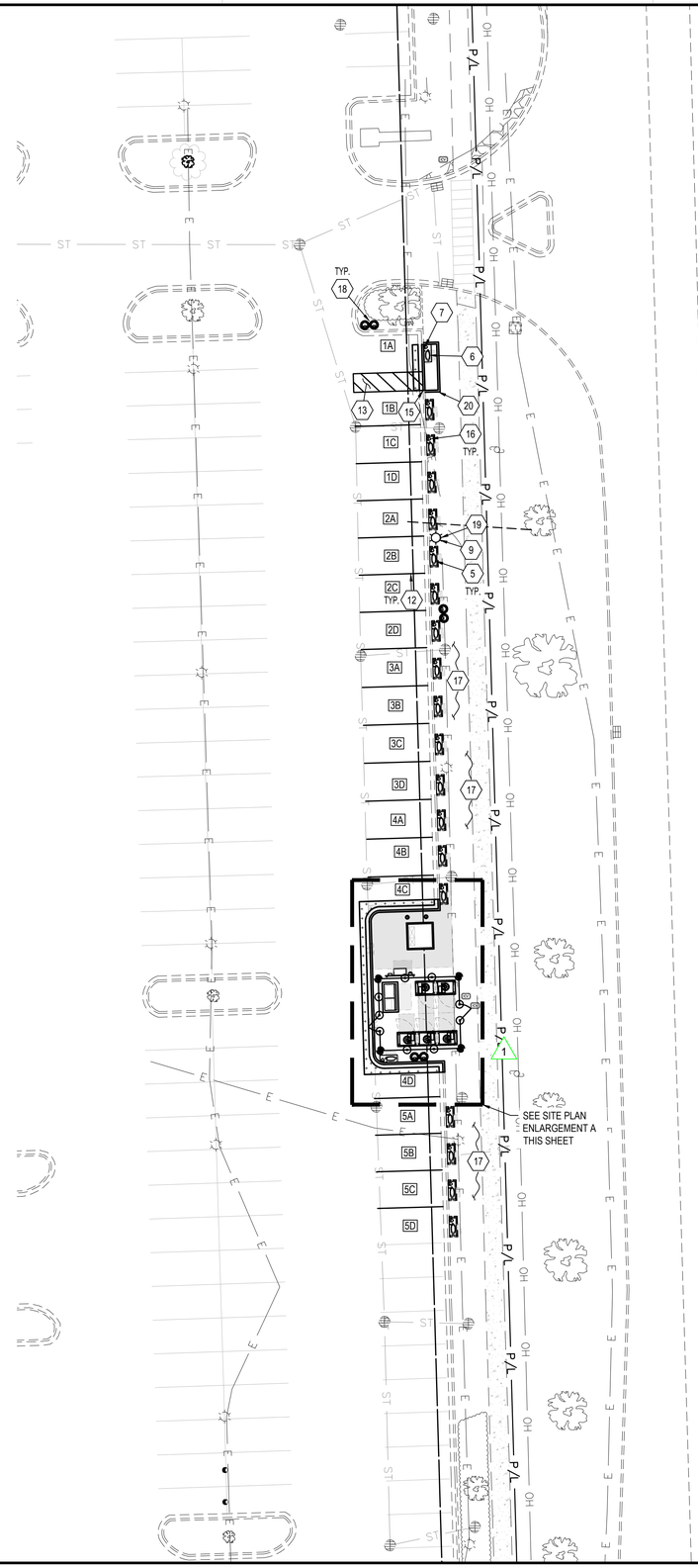


PARKING STALL ANALYSIS

EXISTING STALLS UTILIZED AS A RESULT OF THIS PROJECT	25
PROPOSED DCFC TESLA STALLS	20
PROPOSED NON-EV STALLS	0
NET STALL COUNT	-5



A SITE PLAN ENLARGEMENT
1" = 5'



GENERAL SHEET NOTES

1. EXISTING PROPERTY LINES, RIGHT-OF-WAY BOUNDARIES, EASEMENT BOUNDARIES, SETBACKS, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY.
2. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
3. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SLOPES AND GRADES PRIOR TO CONSTRUCTION. FINAL GRADES SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR AND APPROVED BY THE CONSTRUCTION MANAGER.
5. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TOWARDS THE NEAREST EXISTING DRAINAGE STRUCTURE AND ENSURE NO PONDING OCCURS ON SITE.
6. CONTRACTOR SHALL ENSURE SLOPES OF PARKING STALL 1A AND ADJACENT TRANSVERSE STRIPED AREA(S) ARE COMPLIANT WITH NATIONAL ADA STANDARDS. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN PARKING STALL 1A AND ADJACENT TRANSVERSE STRIPED AREA(S). CONTRACTOR SHALL REMOVE AND REGRADE AREA(S) AS REQUIRED TO ACHIEVE NECESSARY SLOPES. CONTRACTOR SHALL INSTALL FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH THE CURRENT AHJ'S REGULATIONS.

PLAN KEYNOTES

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.
2. PROPOSED UTILITY METER MOUNTED ON H-FRAME PER ELECTRIC COMPANY SPECIFICATIONS AND DETAILS ON ELECTRICAL SHEETS.
3. PROPOSED SWITCHGEAR ASSEMBLY WITH INTEGRATED TESLA SITE CONTROLLER AND PRIMARY BROADCAST UNIT PER ELECTRICAL DRAWINGS. SEE SHEET C-201, DETAIL B-4.
4. PROPOSED TESLA SUPERCHARGER CABINET (TYPICAL OF 5). SEE CIVIL DETAILS.
5. PROPOSED TESLA SUPERCHARGER POST WITH INDIVIDUAL PRECAST CONCRETE FOUNDATION (TYPICAL OF 18). SEE SHEET C-201, DETAIL C-2.
6. PROPOSED TESLA SUPERCHARGER POST WITH CAST-IN-PLACE CONCRETE FOUNDATION (TYPICAL OF 1). INSTALL POST FLUSH WITH PAVEMENT. SEE SHEET C-202, DETAIL A-1.
7. PROPOSED NON-ILLUMINATED PARKING SIGN (TYPICAL OF 1). SEE SHEET C-201, DETAIL B-2. SEE SUPERCHARGER POST SCHEDULE, THIS SHEET. MOUNT SIGN POST IN BOLLARD AS NOTED.
8. PROPOSED CONCRETE EQUIPMENT PAD. SEE SHEET C-201, DETAIL C-4.
9. PROPOSED RELOCATED LIGHT POLE (TOTAL OF 1), SEE SHEET C-202, DETAIL B-1. SEE ELECTRICAL DRAWINGS FOR POLE AND FIXTURE SPECIFICATIONS AND WIRING.
10. PROPOSED TREX 'SECLUSION' FENCING WITH BRICK/STEEL PILLARS. SEE SHEET C-202, DETAIL C-4.
11. PROPOSED TREX "SECLUSION" SINGLE GATE WITH KEYPAD AND PANIC HARDWARE (TYPICAL OF 2). SEE SHEET C-202, DETAIL B-3 & C-2.
12. PROPOSED PAINTED 4" WIDE SOLID STRIPE TO MATCH EXISTING STRIPING IN COLOR. SEE PAVEMENT MARKING NOTES ON SHEET C-003.
13. PROPOSED PAINTED 4" WIDE TRANSVERSE STRIPING TO MATCH EXISTING STRIPING IN COLOR. STRIPING SHALL BE 3'-0" O.C. SEE PAVEMENT MARKING NOTES ON SHEET C-003 AND SHEET C-201, DETAIL A-5.
14. PROPOSED CONCRETE CURB AND REVERSE PITCH GUTTER. SEE SHEET C-201, DETAIL A-3.
15. PROPOSED FLUSH CONCRETE CURB AND REVERSE PITCH GUTTER WITH INTEGRATED CONCRETE WALK. SEE SHEET C-201, DETAIL A-4.
16. PROPOSED REBOUNDING DETERRENT BOLLARD (TYPICAL OF 20). SEE SHEET C-201, DETAIL A-2.
17. PROPOSED LANDSCAPE SEE SHEET L-101.
18. PROPOSED TRASH CAN AND RECYCLING BIN (TYPICAL OF 3 EACH) MOUNTED ON CONCRETE PAD. SEE SHEET C-201, DETAIL C-1.
19. PROPOSED SECONDARY BROADCAST UNIT (TYPICAL OF 1). MOUNT PER MANUFACTURER'S SPECIFICATIONS AT MINIMUM 10'-0" ABOVE GRADE. WHERE APPLICABLE, CONTRACTOR SHALL MOUNT TO EXISTING LIGHT POLE.
20. PROPOSED 6" CONCRETE CURB. SEE SHEET C-201, DETAIL C-5.
21. PROPOSED CT CABINET ON H-FRAME PER UTILITY SPECIFICATIONS.
22. PROPOSED DETERRENT BOLLARD PER UTILITY SPECIFICATIONS (TYPICAL OF 2).
23. PROPOSED TESLA SUPERCHARGER POST WITH CAST-IN-PLACE CONCRETE FOUNDATION (TYPICAL OF 1). SEE SHEET C-201, DETAIL B-2.
24. PROPOSED REMOTE POWER SWITCH MOUNTED ON H-FRAME. SEE ELECTRICAL DETAILS.

LEGEND

(SEE SHEET C-003 FOR EXISTING LEGEND)

PROPOSED EQUIPMENT CLEAR SPACE

PROPOSED ASPHALT PAVEMENT TO MATCH EXISTING IN TYPE AND DEPTH. INCLUDE ENGINEERED COMPACTED BACKFILL BELOW PAVEMENT SECTION. TRENCHING NOT INCLUDED. FOR FULL DEPTH REPLACEMENT, CONTRACTOR SHALL REPLACE ANY FABRIC ENCOUNTERED DURING EXCAVATION INCLUDING BUT NOT LIMITED TO; GEOTEXTILE, WATER-PROOFING, PAVING FABRICS, ETC. THE REPLACEMENT MATERIAL(S) SHALL BE EQUAL TO OR BETTER THAN EXISTING AND SHALL BE CONFIRMED BY THE MANUFACTURER'S REPRESENTATIVE TO BE COMPATIBLE WITH THE EXISTING INSTALLATION. IN LIEU OF FULL DEPTH REPLACEMENT, CONTRACTOR CAN MILL AND OVERLAY (1.5" MIN.) PROPOSED ASPHALT PROVIDED THAT THE FINAL ASPHALT SECTION IS EQUAL TO OR GREATER THAN THE EXISTING SECTION AND DRAINAGE AND ADA COMPLIANCE IS NOT NEGATIVELY AFFECTED.

0 20 10 1"=20' 40
Horizontal Scale in Feet

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062.069126
STATE OF ILLINOIS
Signature
Date 04/12/24
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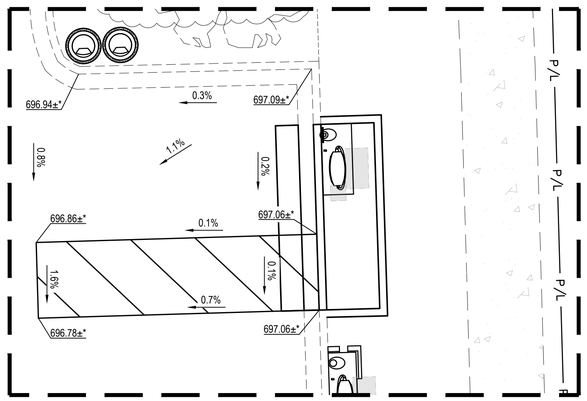
CIVIL SITE PLAN

PROJECT MANAGER	DESIGNER
IM	NSE

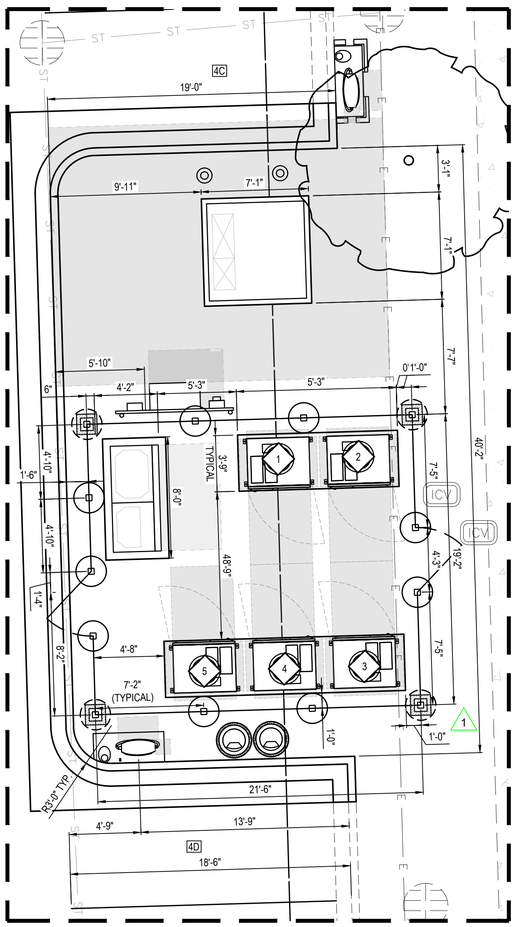
JOB NO.
2023141.99

C-111
PLANNING#: 23-23-100000100
BUILDING#: 24-340

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:20 AM - shoneycutt



B ADA STALL ENLARGEMENT
1" = 5'



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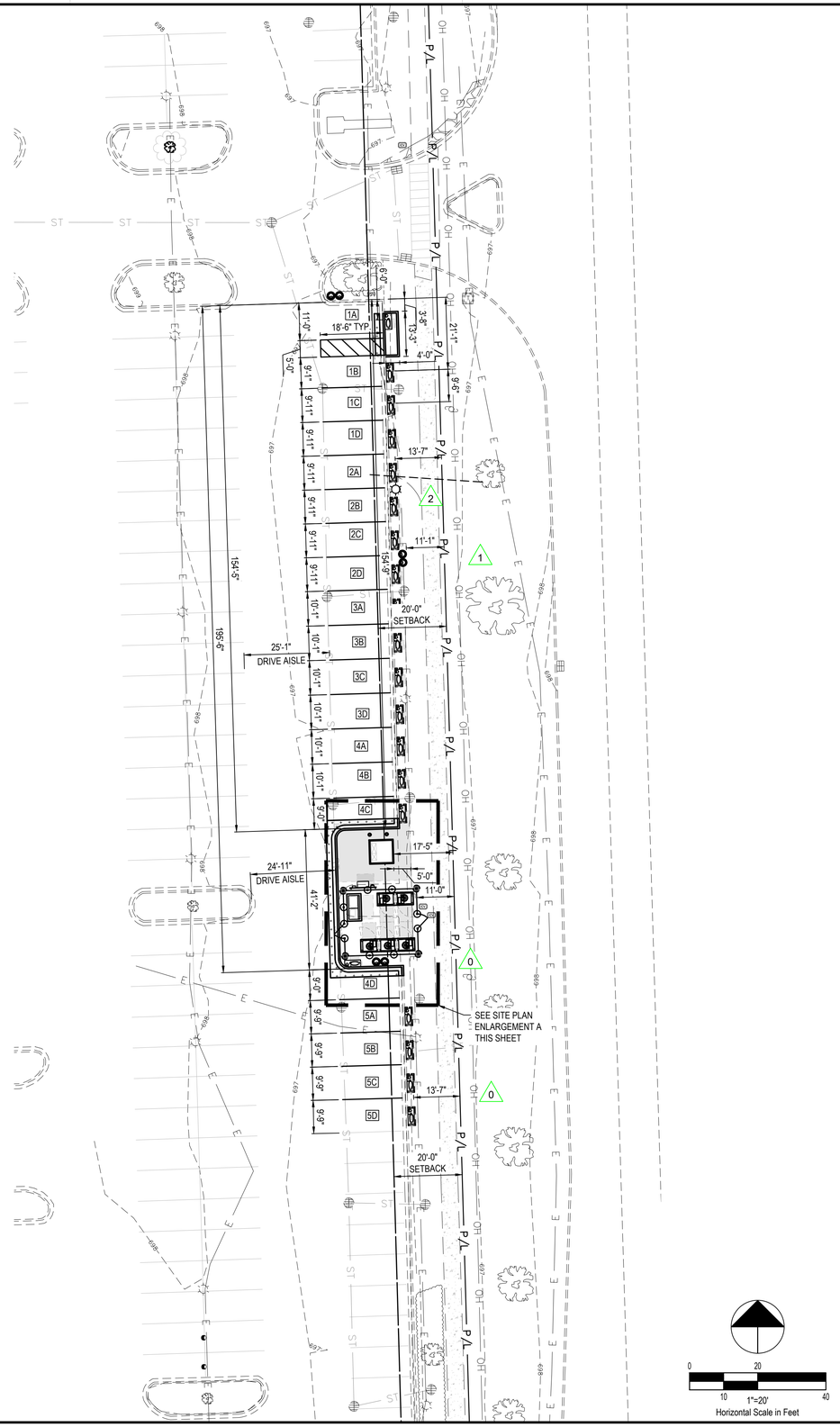
1" = 5'



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GRADING LEGEND

000.00±* *MATCH EXISTING ELEVATION

0.0% EXISTING DRAINAGE SLOPE & ARROW

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LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS
Signature 04/12/24
Date 11/30/2025
Exp. Date

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

DIMENSION SITE PLAN

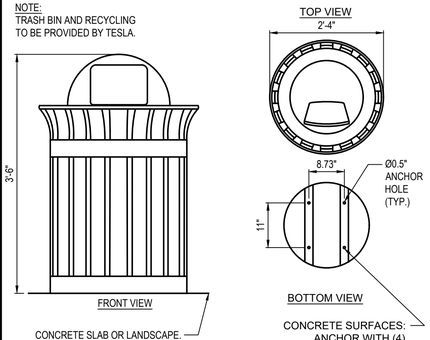
PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

C-112 2
PLANNING#: 23-23-100000100
BUILDING#: 24-340

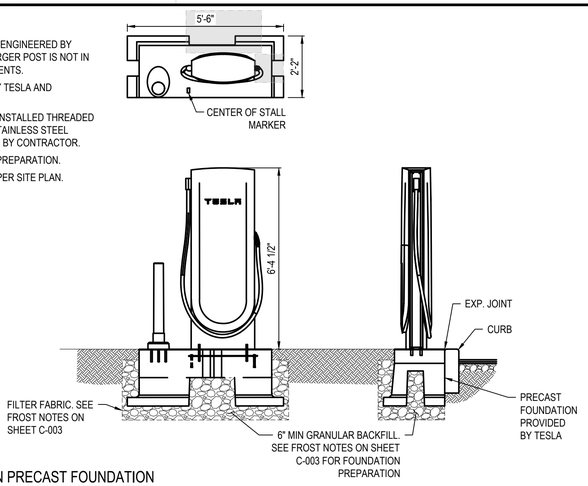
Drawing Name: O:\2023\2023141.99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:20 AM - stoneycutt

NOTE:
TRASH BIN AND RECYCLING TO BE PROVIDED BY TESLA.

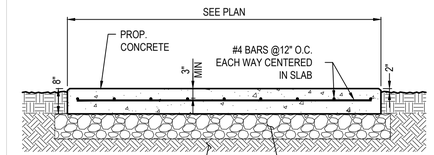


C-1 TRASH CAN AND RECYCLING BIN
N.T.S.

NOTES
1. PRECAST CONCRETE FOUNDATION DESIGNED & ENGINEERED BY OTHERS. FOUNDATION DESIGN FOR SUPERCHARGER POST IS NOT IN CONTRACT FOR THESE CONSTRUCTION DOCUMENTS.
2. PRECAST CONCRETE FOUNDATION SUPPLIED BY TESLA AND INSTALLED BY CONTRACTOR.
3. CHARGING POST SHALL BE ANCHORED TO PRE-INSTALLED THREADED INSERTS ON PRECAST FOUNDATION WITH 1/2" STAINLESS STEEL HARDWARE SUPPLIED BY TESLA AND INSTALLED BY CONTRACTOR.
4. SEE FROST NOTES ON C-003 FOR FOUNDATION PREPARATION.
5. PROVIDE SIGN AND/OR BOLLARD AS REQUIRED PER SITE PLAN.



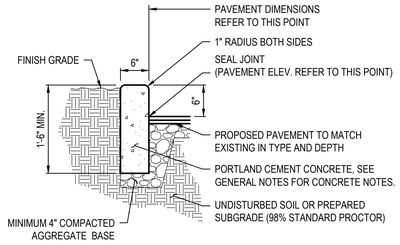
C-2 TESLA SUPERCHARGER ON PRECAST FOUNDATION
N.T.S.



CONCRETE PAD NOTES & CONCRETE SPECIFICATIONS:

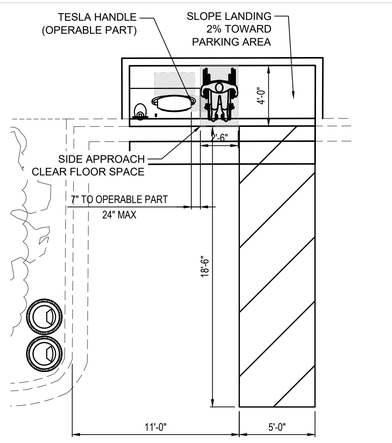
1. FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING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

C-4 EQUIPMENT PAD
N.T.S.



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

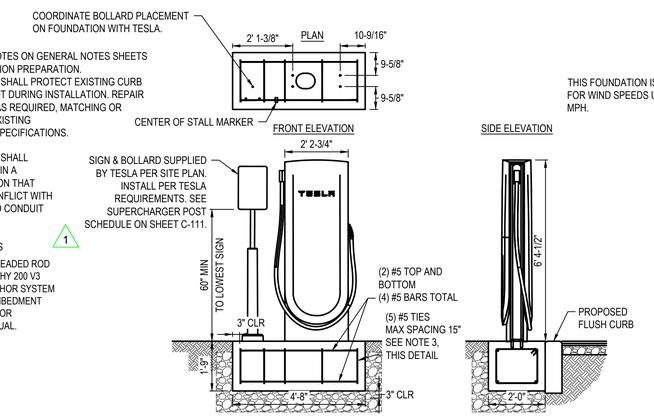
C-3 CONCRETE CURB
N.T.S.



B-1 ACCESSIBLE REACH PLAN
N.T.S.

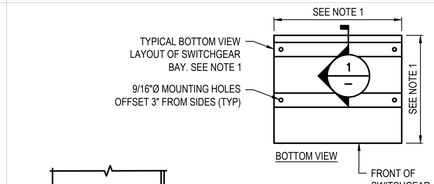
NOTES
1. SEE FROST NOTES ON GENERAL NOTES SHEETS FOR FOUNDATION PREPARATION.
2. CONTRACTOR SHALL PROTECT EXISTING CURB AND PAVEMENT DURING INSTALLATION. REPAIR OR REPLACE AS REQUIRED, MATCHING OR EXCEEDING EXISTING CONDITIONS/SPECIFICATIONS.
3. CONTRACTOR SHALL PLACE REBAR IN A CONFIGURATION THAT DOES NOT CONFLICT WITH ANCHORS AND CONDUIT WINDOW

ANCHORAGE NOTES
1. 1/2" DIA SS THREADED ROD WITH HILTI HIT-HY 200 V3 ADHESIVE ANCHOR SYSTEM WITH 6" MIN EMBEDMENT PER ESR-4868, OR APPROVED EQUAL.



THIS FOUNDATION IS RATED FOR WIND SPEEDS UP TO 107 MPH.

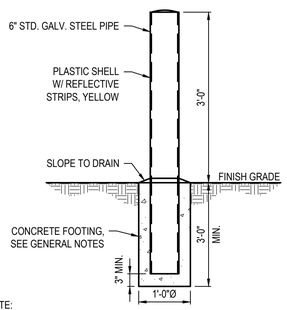
B-2 TESLA SUPERCHARGER CAST-IN-PLACE FOUNDATION
N.T.S.



1. REFER TO SWITCHGEAR MANUFACTURER DRAWINGS FOR MOUNTING HOLE LOCATIONS, SWITCHGEAR BAY DIMENSIONS, AND BASE CHANNEL DIMENSIONS.
2. MINIMUM EDGE DISTANCE FOR PROPOSED ANCHORAGE SHALL BE 8".

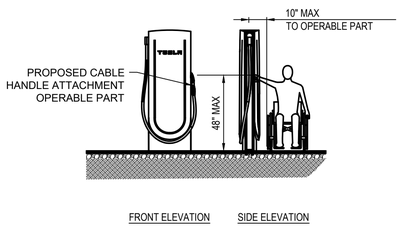
B-4 MOUNTING FOR LINCOLN EV-2 SWITCHGEAR
NTS

MCCUE PART #: 1B617307



NOTE:
DETERRENT BOLLARD IS INTENDED TO PROVIDE A VISUAL DETERRENT AND REDUCE POTENTIAL IMPACT ON EQUIPMENT.

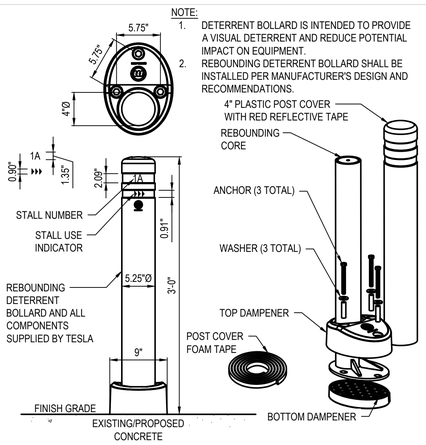
B-5 DEEP MOUNT DETERRENT BOLLARD
N.T.S.



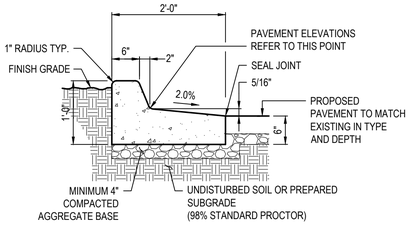
THIS ELEVATION IS A REFERENCE TO THE 2017 ICC A117.1 STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES; SEE SECTION 308, FIGURE 308.3.1, UNOBSTRUCTED SIDE REACH, 48" MAX REACH HEIGHT.

A-1 ACCESSIBLE REACH PLAN
N.T.S.

NOTE:
1. DETERRENT BOLLARD IS INTENDED TO PROVIDE A VISUAL DETERRENT AND REDUCE POTENTIAL IMPACT ON EQUIPMENT.
2. REBOUNDING DETERRENT BOLLARD SHALL BE INSTALLED PER MANUFACTURER'S DESIGN AND RECOMMENDATIONS.

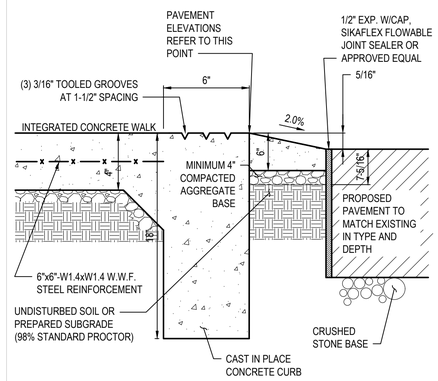


A-2 REBOUNDING DETERRENT BOLLARD
N.T.S.



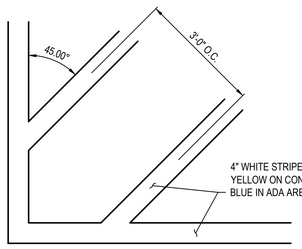
NOTE:
CONTRACTOR SHALL ASSESS LOCAL ZONING ORDINANCES AND EXISTING CONDITIONS TO MATCH. ABOVE DETAIL TO BE USED AS MINIMUM STANDARDS.

A-3 CONCRETE CURB AND REVERSE PITCH GUTTER
N.T.S.



NOTES:
1. REFER TO GENERAL NOTES FOR CONCRETE SPECIFICATION.
2. SIDEWALK WIDTH AS SHOWN ON SITE PLAN.

A-4 FLUSH CURB AND REVERSE PITCH GUTTER WITH INTEGRATED CONCRETE WALK
N.T.S.



NOTE:
REFER TO GENERAL NOTES FOR ADDITIONAL PAVEMENT MARKING NOTES AND SPECIFICATIONS.

A-5 TRANSVERSE STRIPING
N.T.S.

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

GPD GROUP, INC.®
LIC. # - 184-007100
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
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1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS
Signature
Date 04/12/24
Exp. Date 11/30/2025

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

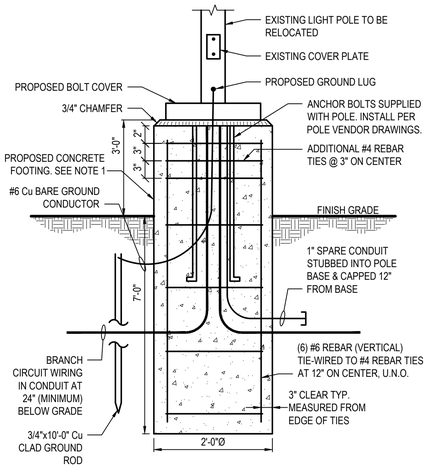
CIVIL DETAILS

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

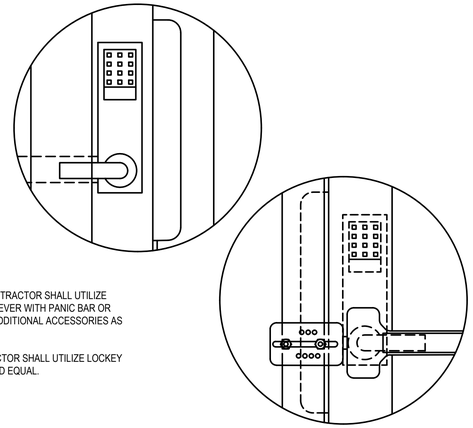
C-201
PLANNING#: 23-23-100000100
BUILDING#: 24-340
2

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:20 AM - smeyssott



NOTE:
1. RUB CONCRETE TO REMOVE SONOTUBE FORM LINES AND FILL ALL HOLES FOR SMOOTH FINISH. WEATHERSEAL ALL EXPOSED CONCRETE.
2. SEE GENERAL NOTES FOR CONCRETE SPECIFICATIONS.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING LIGHT POLE MOUNTING CONDITION AND CONFIGURATION. PROPOSED NEW FOUNDATION SHALL BE ADAPTED TO BE COMPATIBLE WITH EXISTING POLE / MOUNTING REQUIREMENTS.

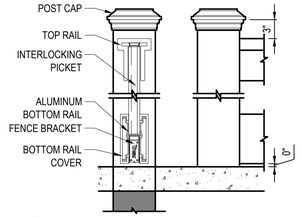
B-1 LIGHT POLE FOUNDATION
N.T.S.



NOTES
1. FOR SOLID GATES & DOORS, CONTRACTOR SHALL UTILIZE LOCKEY STYLE 285P MED DUTY LEVER WITH PANIC BAR OR APPROVED EQUAL. PURCHASE ADDITIONAL ACCESSORIES AS REQUIRED.
2. FOR CHAINLINK GATES, CONTRACTOR SHALL UTILIZE LOCKEY PS11-SECURITY KIT OR APPROVED EQUAL.

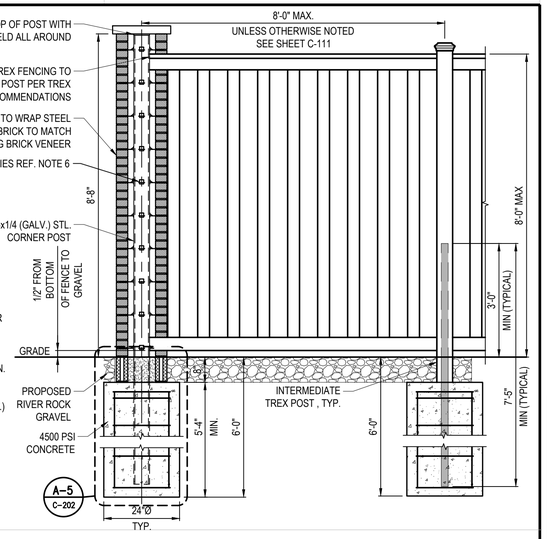
C-2 SINGLE GATE KEYPAD W/ PANIC HARDWARE
N.T.S.

NOTE:
FENCING SHALL BE TREX "SECLUSION" TYPE WITH "SADDLE" COLOR.



NOTES:
1. INSTALLATION TO BE COMPLETED PER MANUFACTURER'S SPECIFICATION.
2. THIS DRAWING IS PROVIDED FOR PLANNING PURPOSES. REFER TO MANUFACTURER'S INSTALLATIONS FOR CONSTRUCTION DETAILS.
3. REFER TO MANUFACTURER'S WEBSITE FOR PRODUCT INFORMATION.
4. DRAWING NOT TO SCALE.
5. OWNER SHALL BE CONTACTED IMMEDIATELY IF GROUND WATER IS ENCOUNTERED DURING CONSTRUCTION.
6. BRICK VENEER ANCHORS: HOHMANN & BARNARD HB-213 OR WIRE-BOND RJ-711 WITH 3/16" DIAMETER PINTLE. HOT-DIPPED GALVANIZED PER ASTM A153 CLASS B. VERTICAL DISTANCE BETWEEN HORIZONTAL PINTLE WIRE AND CLIP PLATE SHALL NOT EXCEED 3/4 INCH. (FLAT CORRUGATED TIES ARE NOT PERMITTED.) SCREWS SHALL BE MINIMUM #10 SIZE AND SHALL BE CADMIUM-PLATED OR HOT-DIPPED GALVANIZED. (STAINLESS STEEL AND COPPER-COATED SCREWS ARE NOT PERMITTED.) ANCHORS SHALL BE ATTACHED WITH FASTENERS TO THE STEEL FRAMING. PROVIDE BRICK VENEER ANCHORS AT ALL FOURT SIDE OF STEEL COLUMN AND MAXIMUM VERTICAL SPACING OF 16". BRICK VENEER ANCHORS SHALL BE EMBEDDED 2" MINIMUM INTO BRICK.

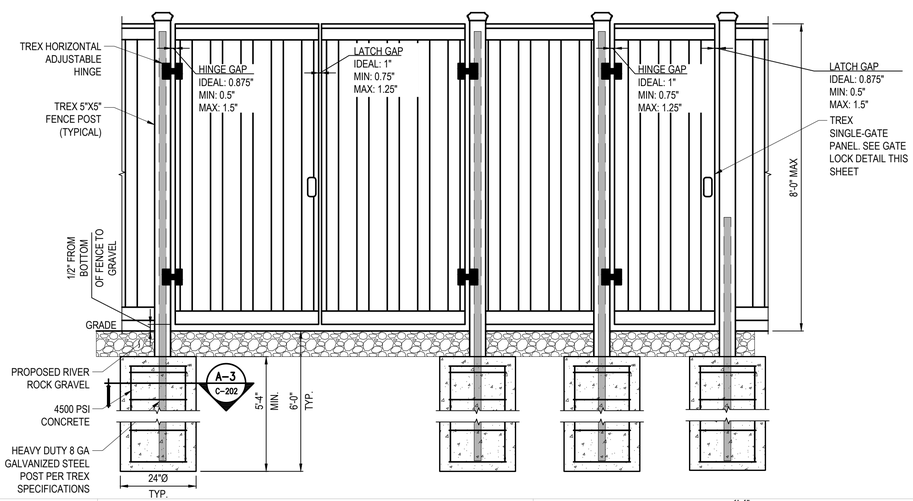
C-4 TREX FENCE
N.T.S.



GATE NOTES:
- TREX SECLUSION SINGLE GATE OPENING AT 46-1/4" BETWEEN EDGE OF COMPOSITE POSTS
- TREX SECLUSION DOUBLE GATE OPENING AT 130-1/2" BETWEEN EDGE OF COMPOSITE POSTS
- REFER TO SITE PLAN FOR APPLICABLE GATE TYPES AND QUANTITIES

INSTALLATION NOTES:
1. INSTALLATION TO BE COMPLETED PER MANUFACTURER'S RECOMMENDATIONS.
2. THIS DRAWING IS PROVIDED FOR PLANNING PURPOSES. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR CONSTRUCTION DETAILS.
3. REFER TO MANUFACTURER'S WEBSITE FOR PRODUCT INFORMATION.
4. DRAWING NOT TO SCALE.

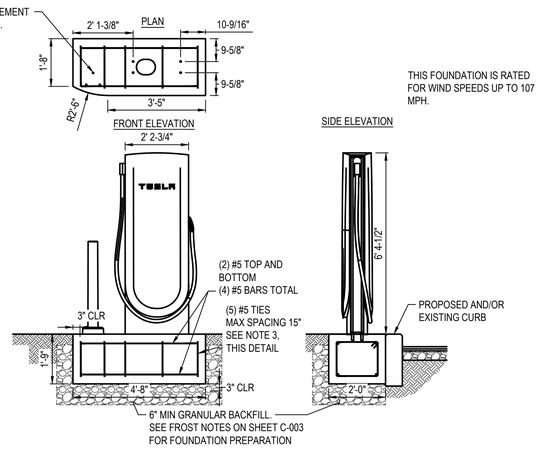
B-3 TREX GATE
N.T.S.



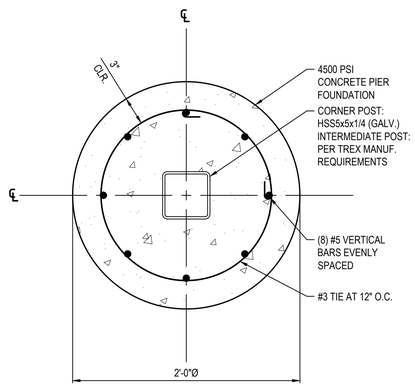
NOTE:
1. RUB CONCRETE TO REMOVE SONOTUBE FORM LINES AND FILL ALL HOLES FOR SMOOTH FINISH. WEATHERSEAL ALL EXPOSED CONCRETE.
2. SEE GENERAL NOTES FOR CONCRETE SPECIFICATIONS.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING LIGHT POLE MOUNTING CONDITION AND CONFIGURATION. PROPOSED NEW FOUNDATION SHALL BE ADAPTED TO BE COMPATIBLE WITH EXISTING POLE / MOUNTING REQUIREMENTS.

NOTES
1. SEE FROST NOTES ON GENERAL NOTES SHEETS FOR FOUNDATION PREPARATION.
2. CONTRACTOR SHALL PROTECT EXISTING CURB AND PAVEMENT DURING INSTALLATION. REPAIR OR REPLACE AS REQUIRED, MATCHING OR EXCEEDING EXISTING CONDITIONS/SPECIFICATIONS.
3. CONTRACTOR SHALL PLACE REBAR IN A CONFIGURATION THAT DOES NOT CONFLICT WITH ANCHORS AND CONDUIT WINDOW

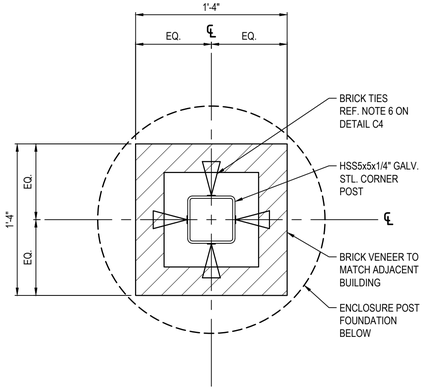
ANCHORAGE NOTES
1. 1/2" DIA SS THREADED ROD WITH HILTI HIT-HY 200 V3 ADHESIVE ANCHOR SYSTEM WITH 6" MIN EMBEDMENT PER ESR-4868, OR APPROVED EQUAL.



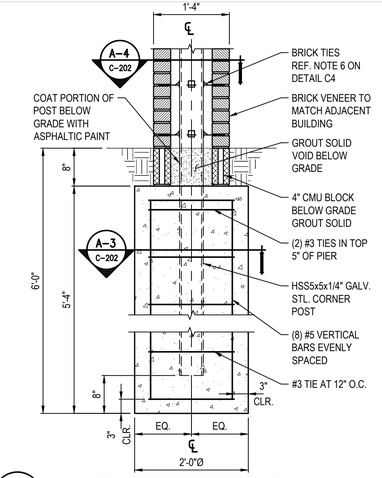
A-1 TESLA SUPERCHARGER CAST-IN-PLACE FOUNDATION
N.T.S.



A-3 TYP. FENCE POST FOUNDATION SECTION
N.T.S.



A-4 CORNER POST SECTION
N.T.S.



A-5 CORNER POST FOUNDATION SECTION
N.T.S.

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

GPD GROUP, INC.®
LIC. # - 184-007100
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

LICENSED PROFESSIONAL ENGINEER
LEONARDO A. SFERRA
062.069126
STATE OF ILLINOIS
Signature
Date 04/12/24
Exp. Date 11/30/2025

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

CIVIL DETAILS

PROJECT MANAGER	DESIGNER
IM	NSE

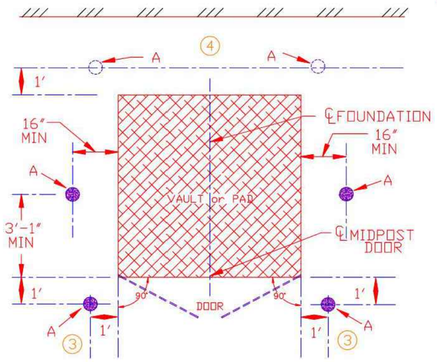
JOB NO.
2023141.99

C-202
PLANNING#: 23-23-100000100
BUILDING#: 24-340

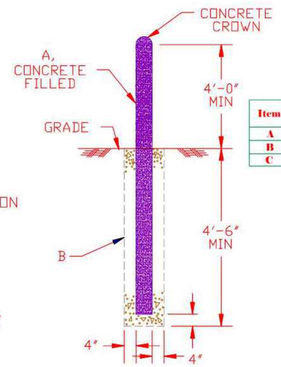
Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:20 AM sfonseyoutt

APPLICATION

- THIS STANDARD SHALL BE USED BY THE CUSTOMER/CONTRACTOR FOR THE INSTALLATION OF VEHICLE BARRIERS.



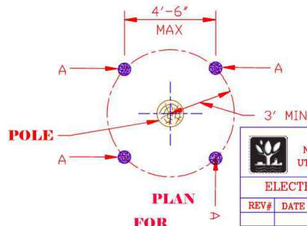
PLAN FOR FOUNDATION



Item	* MATERIAL SHOWN FOR INSTALLING ONE BARRIER *	Unit	Qty
A	Conduit, Rigid, Steel; 8 In. Ips X 10 Ft. Long, Hot Dipped Galvanized, Threaded	EA	1
B	Concrete, Mixture; 80 Lb. Bag, Dry, 1 Part Cement, 2-1/4 Parts #2 Pea Gravel	BG	8
C	Cover, Plastic, Removable; Safety Yellow Color for 8 Inch Rigid Steel Pipe	EA	1

INFORMATION

1. THIS TYPE OF BARRIER SHOULD BE USED WERE DAMAGE TO EQUIPMENT, CUBICLES, OR POLES, BY A VEHICLE IS PROBABLE.
2. OTHER TYPES OF BARRIERS MAY BE USED UPON APPROVAL OF THE CITY OF NAPERVILLE, DPU - ELECTRIC.
3. PROVIDE ADEQUATE CLEARANCE FOR OPENING EQUIPMENT DOORS AND FOR PULLING CABLE BY PLACING BARRIERS AT 45 DEGREE ANGLE FROM VAULT OR PAD AND NO LESS THAN 1 FOOT AWAY.
4. BARRIERS NOT REQUIRED ON SIDE WHERE EQUIPMENT FACES A BUILDING OR OTHER STRUCTURE WHICH RESTRICTS TRAFFIC.
5. SMALLER TRANSFORMER & SECTIONALIZER FOUNDATIONS MAY REQUIRE FEWER BARRIERS BUT SPACING SHOULD BE AS SHOWN.



NAPERVILLE PUBLIC UTILITIES DEPARTMENT
ELECTRIC STANDARDS

VEHICULAR BARRIER
(CUSTOMER/CONTRACTOR ONLY)

DATE: 04-22-06
PAGE 1 OF 1
STD. NO. C10-2222

REV#	DATE	DESCRIPTION	REV BY	APPVD BY	REV#	DATE	DESCRIPTION	REV BY	APPVD BY

Digitally signed by diabm
Date: 2014.12.22 08:34:35 -06'00'

SK

B-3 CITY BOLLARD DETAIL
N.T.S.

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

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0	11/27/2023	REVISED S&S PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

FOR REFERENCE ONLY

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

CITY OF NAPERVILLE DETAILS

PROJECT MANAGER	DESIGNER
IM	NSE

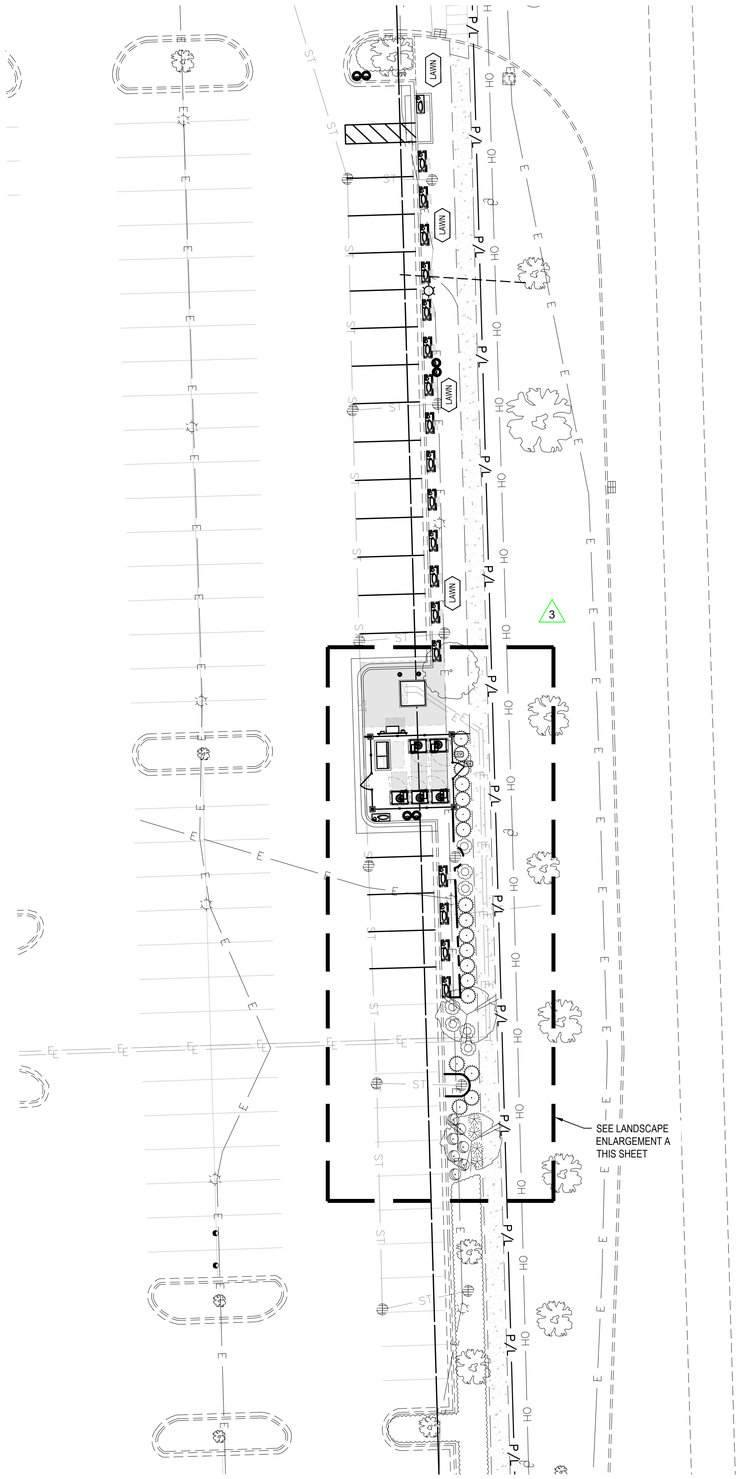
JOB NO.
2023141.99

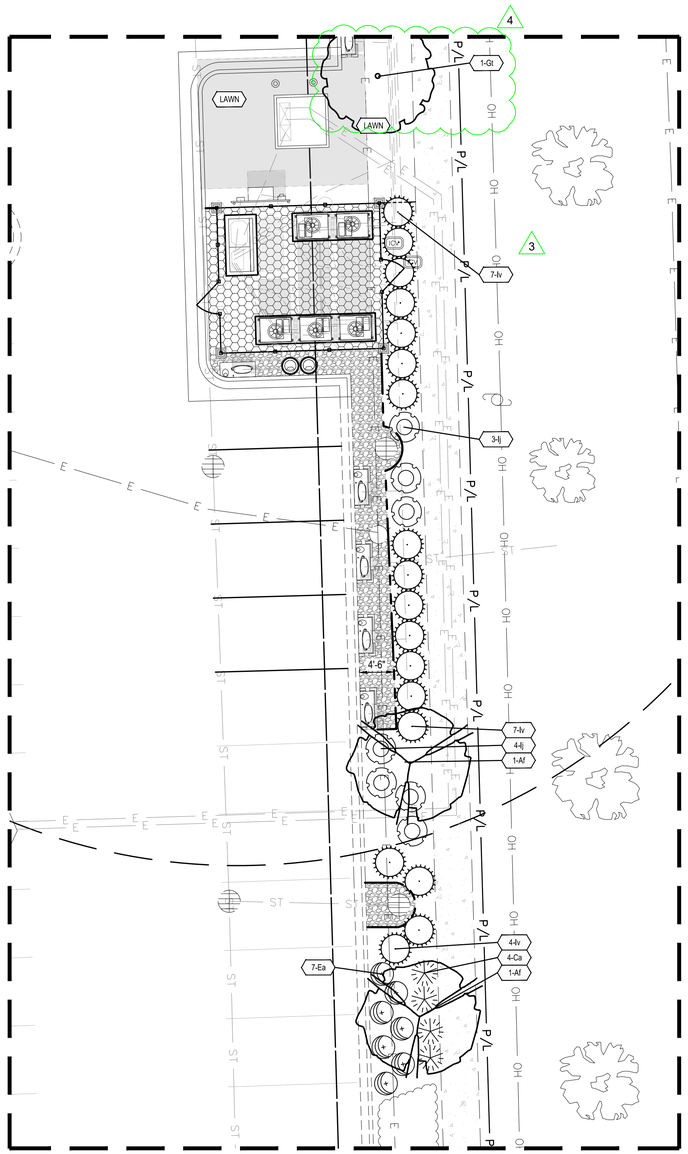
C-203
PLANNING#: 23-23-100000100
BUILDING#: 24-340
2

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:21 AM sbeveyout

PLANT LIST

Symbol	Botanical Name	Common Name	Quantity	Size	Condition	Remarks
Af	Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	2	2" Cal.	B&B	Per Plan
Ca	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	4	No. 2	Cont.	3' o/c
Ea	Euonymus alatus 'Compacta'	Compact Burning Bush	7	30" Ht., No. 5	Cont.	4' o/c
Gt	Gleditsia triacanthos var. inermis	Thornless Honeylocust	1	2" Cal.	B&B	Per Plan
Iv	Ilex verticillata 'Shaver'	Shaver Winterberry	0	30" Ht., No. 5	Cont.	4' o/c
Ij	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry	4	30" Ht., No. 5	Cont.	4' o/c





A LANDSCAPE ENLARGEMENT
1" = 10'

LEGEND
(SEE SHEET C-003 FOR EXISTING LEGEND)

- EXISTING TREE TO REMAIN
- EXISTING SHRUBS/PERENNIALS TO REMAIN
- PROPOSED TREE
- PROPOSED SHRUB/PERENNIAL
- PROPOSED LANDSCAPE STONE A
- PROPOSED LANDSCAPE STONE B
- LAWN — PROPOSED SEEDED AREA
- ##-Xx — PROPOSED PLANT QUANTITY AND SYMBOL
- MULCH — PROPOSED MULCHED AREA
- PROPOSED TRENCHED BED EDGE
- PROPOSED METAL BED EDGE

GENERAL NOTES

1. ALL DISTURBED LANDSCAPE AREAS NOT TO BE SEEDED SHALL BE MULCHED PER ORGANIC MULCH SPECIFICATIONS.
2. SEE SHEET L-201 FOR LANDSCAPE NOTES AND DETAILS.

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

GPD GROUP, INC.®
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2	03/07/2024	ADDED LANDSCAPE PLAN
3	04/02/2024	REVISION FOR PETITION DEVELOPMENT
4	04/11/2024	REVISION FOR PETITION DEVELOPMENT

LICENSED LANDSCAPE ARCHITECT
IVAN VALENTIC
157-00158
STATE OF ILLINOIS

04/12/24

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

LANDSCAPE PLAN

PROJECT MANAGER	DESIGNER
IM	JRA

JOB NO.
2023141.99

L-101
PLANNING#: 23-23-100000100
BUILDING#: 24-340

Drawing Name: O:\2022\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 1:21 AM - stoneycutt

LANDSCAPE NOTES

GENERAL

1. LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED FOR LANDSCAPE CONSTRUCTION AND PLANNING IN THE STANDARDIZED LANDSCAPE SPECIFICATIONS (ASLA) AND ANY LOCAL LANDSCAPE ORDINANCE.

2. PLANT GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.

3. ALL DISTURBED AND PROPOSED LANDSCAPE PLANTING BED AREAS SHALL MATCH EXISTING GROUND CONDITIONS IN TYPE AND DEPTH UNLESS OTHERWISE STATED ON PLANS.

4. IF NECESSARY, CONTRACTOR SHALL PRUNE EXISTING TREES TO MAINTAIN NECESSARY CLEARANCES, EQUIPMENT MANUFACTURER CLEARANCES, AND UTILITY REQUIRED CLEARANCES. CONTRACTOR SHALL MAKE TREE SHAPELY AND TYPICAL OF SPECIES PER ANSI A300 AND HORTICULTURAL STANDARDS.

5. IF NECESSARY, CONTRACTOR SHALL ROOT PRUNE EXISTING TREES AS FOLLOWS: ENDS OF BROKEN ROOTS OVER 1/4" IN DIAMETER SHOULD BE PRUNED WITH A CLEAN CUT, REMOVING OVER INJURED PORTION.

MATERIALS

1. LAWN SEED MIX: ALL SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATE OF OFFICIAL AND SEED ANALYSIS "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCE. ALL AREAS TO BE SEEDED SHALL RECEIVE SEED MIX CONSISTING OF THE FOLLOWING:

	NAME	PURE GERM.	MAX.% WEED SEED	PROP.% SEED
70%	TALL FESCUE (FESTUCA ARUNDINACEA	80	85	0.50
20%	KENTUCKY BLUEGRASS (POA PRATENSIS)	85	98	0.50
10%	PERENNIAL RYE GRASS (LOLIUM PERENNE)	90	98	0.50

2. WOOD CELLULOSE FIBER MULCH: DEGRADABLE GREEN DYED WOOD CELLULOSE FIBER OR 100% RECYCLED LONG FIBER PULP, FREE FROM WEEDS OR OTHER FOREIGN MATTER TOXIC TO SEED GERMINATION AND SUITABLE FOR HYDRO-MULCHING.

3. TACKIFIER: LIQUID CONCENTRATE DILUTED WITH WATER FORMING A TRANSPARENT 3-DIMENSIONAL FILM LIKE CRUST PERMEABLE TO WATER AND AIR AND CONTAINING NO AGENTS TOXIC TO SEED GERMINATION FOR STABILIZING STRAW MULCH

4. SEED FERTILIZER: FERTILIZER SHALL BE SLOW RELEASE STARTER MIX (18-24-6) APPLIED AT THE TIME OF PLANTING WITH A SECOND APPLICATION AFTER 4-5 WEEKS. FERTILIZER SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT DELIVERED TO THE SITE IN BAGS OR OTHER CONVENIENT CONTAINERS, EACH FULLY LABELED, CONFORMING TO APPLICABLE STATE FERTILIZER LAWS, AND BEARING THE NAME, TRADE NAME OR TRADEMARK, AND WARRANTY OF THE PRODUCER. EACH APPLICATION SHOULD BE APPLIED TO EQUAL ONE (1) POUND OF NITROGEN PER 1000 SQUARE FEET (SQ. FT.) OF LAWN AREA.

5. BED EDGING

5.A. TRENCHED EDGING: TRENCH AROUND LANDSCAPE BEDS TO CREATE SHARP, 45 DEGREE EDGE. TYPICAL AT ALL PLANTING BED EDGES WHERE THEY MEET LAWNS.

5.B. METAL EDGING: SHALL BE 4" STEEL EDGING WITH THREE (3) METAL ANCHOR STAKES PER 20 FOOT SECTION. ALL MASS PLANTING BEDS SHALL HAVE EDGING PLACED BETWEEN LANDSCAPE STONE AND ADJACENT LANDSCAPE AREA NOT TO CONTAIN STONE.

6. LANDSCAPE STONE:

6.A. TYPE A. RIVER ROCK SHALL BE ¾"- 2" IN SIZE, WASHED AND ROUNDED. SHALL BE TAN IN COLOR. RIVER ROCK SHALL BE INSTALLED AT A MINIMUM DEPTH OF 3 INCHES.

6.B. TYPE B. RIVER ROCK SHALL BE MIN. 2" IN SIZE, MAXIMUM 3", WASHED AND ROUNDED. SHALL BE TAN IN COLOR. RIVER TOCK SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES.

7. ORGANIC MULCH: ALL PROPOSED AND DISTURBED LANDSCAPE PLANTING BEDS (NOT TO BE STONE) SHALL RECEIVE SHREDDED WOOD MULCH TO MATCH EXISTING. SHALL BE INSTALLED AT A MINIMUM DEPTH OF 3 INCHES.

8. WEED BARRIER - POLYETHYLENE FILTER FABRIC DESIGNED TO PERMIT WATER INFILTRATION WHILE PREVENTING WEED GROWTH-TO BE INSTALLED IN ALL PLANTING BEDS UNDER LANDSCAPE STONE.

9. PLANTING SOIL MIX - SHALL BE CLEAR OF ALL STONES AND DEBRIS 1" OR LARGER, AND CONSIST OF THE FOLLOWING: 25% ORGANIC COMPOST, 75% ACCEPTABLE TOPSOIL.

HYDROSEEDING

1. SEED SHALL BE APPLIED PER HYDROSEED METHOD AS FOLLOWS. CONTRACTOR SHALL SEED AT A RATE OF 5-8 LBS. OF SEED PER 1,000 SQUARE FEET WHEN SOIL TEMPERATURES ARE BETWEEN 50-65 DEGREES FOR OPTIMAL GERMINATION .

2. MIX SPECIFIED SEED, COMMERCIAL FERTILIZER, AND FIBER MULCH IN WATER, USING EQUIPMENT SPECIFICALLY DESIGNED FOR HYDROSEED APPLICATION. CONTINUE MIXING UNTIL UNIFORMLY BLENDED INTO HOMOGENEOUS SLURRY SUITABLE FOR HYDRAULIC APPLICATION.

2.A. MIX SLURRY WITH FIBER-MULCH MANUFACTURER'S RECOMMENDED TACKIFIER.

2.B. ONE STEP PROCESS: APPLY SLURRY AT A RATE SO THAT MULCH COMPONENT IS DEPOSITED AT NOT LESS THAN 1500-LB/ACRE DRY WEIGHT, AND SEED COMPONENT IS DEPOSITED AT NOT LESS THAN THE SPECIFIED SEED-SOWING RATE. APPLY THE SLURRY UNIFORMLY TO ALL AREAS TO BE SEEDED.

2.C. TWO-STEP PROCESS: APPLY FIRST SLURRY COAT AT A RATE SO THAT MULCH COMPONENT IS DEPOSITED AT NOT LESS THAN 500-LB/ACRE DRY WEIGHT, AND SEED COMPONENT IS DEPOSITED AT NOT LESS THAN THE SPECIFIED SEED-SOWING RATE. APPLY SLURRY COVER COAT OF FIBER MULCH (HYDROMULCHING) AT A RATE OF 1000 LB/ACRE. APPLY THE SLURRY UNIFORMLY TO ALL AREAS TO BE SEEDED.

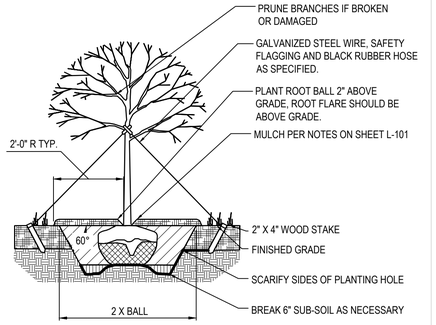
MAINTENANCE

(MAINTENANCE PERIOD TO COMMENCE AFTER FINAL INSPECTION.)

1. MAINTENANCE PERIOD FOR THIS CONTRACT SHALL BE 90 CALENDAR DAYS COMMENCING AFTER FINAL INSPECTION OF CONSTRUCTION.

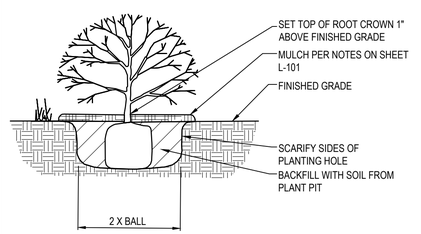
IRRIGATION

1. IRRIGATION RELOCATION: CONTRACTOR SHALL 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. 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 FIXTURES BY THE SAME SUPPLIER. CONTRACTOR SHALL ENSURE PROPOSED UTILITY EQUIPMENT 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 OWNER FOR APPROVAL. UPON APPROVAL OF SHOP DRAWINGS, THE UPDATED IRRIGATION SYSTEM SHALL BE APPROVED BY OWNER FOR FINAL ACCEPTANCE.



GENERAL NOTES:
WHEN BACKFILLING PLANT PIT, PLACE PLANTING SOIL IN TWO LIFTS. AFTER FIRST LIFT, PUDDLE SOIL IN WITH WATER TO REMOVE ALL AIR POCKETS. PLACE SECOND LIFT AND REPEAT. CONTINUE TO PUDDLE AND FILL AS NECESSARY.

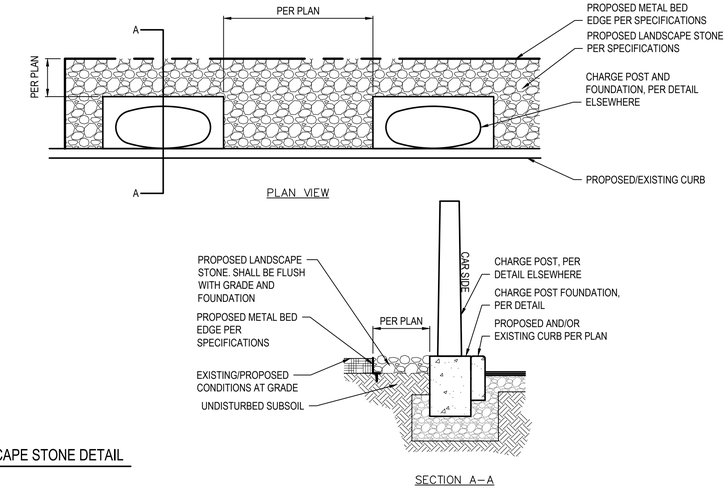
C-4 TREE PLANTING DETAIL
N.T.S.



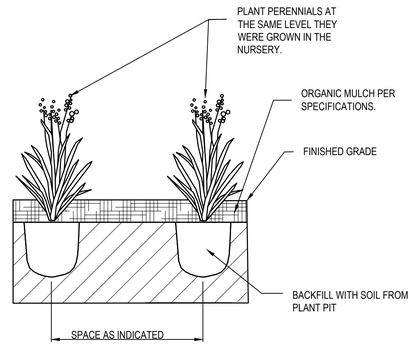
GENERAL NOTES:

1. PRUNE ROOTS IF BALL IS ROOTBOUND. REMOVE ALL CONTAINERS AND NON-BIODEGRADABLE BURLAP. WHEN BACKFILLING PLANT PIT, PLACE PLANTING SOIL IN TWO LIFTS. AFTER FIRST LIFT, PUDDLE SOIL IN WITH WATER TO REMOVE ALL AIR POCKETS. PLACE SECOND LIFT AND CONTINUE TO PUDDLE AND FILL AS NECESSARY.
2. CONTRACTOR SHALL LOCATE NEW CHARGE POST CONDUITS PRIOR TO INSTALLING TREES AND SHRUBS. PLANT INSTALLATION SHALL NOT DAMAGE CONDUIT.

C-5 SHRUB PLANTING DETAIL
N.T.S.



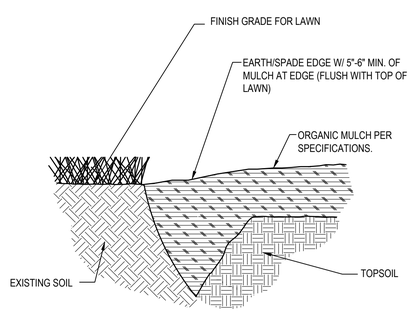
B-4 LANDSCAPE STONE DETAIL
NTS



GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE NEW CHARGE POST CONDUITS PRIOR TO INSTALLING TREES AND SHRUBS. PLANT INSTALLATION SHALL NOT DAMAGE CONDUIT.

A-4 PERENNIAL PLANTING DETAIL
NTS



GENERAL NOTES:

USE WHEREVER MULCHED PLANTINGS TRANSITION TO TURF AREAS, INCLUDING ALL TREE MULCH RINGS,SHRUB BEDS, MASS PLANTING BEDS, ETC...

A-5 TRENCHED BED EDGE
NTS

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

GPD GROUP, INC.®
LIC. # - 184-007100
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
B	07/27/2023	ISSUED FOR 90% REVIEW
C	08/21/2023	REVISED FOR 90% REVIEW
D	09/29/2023	ISSUED FOR SIGN & SEAL
0	11/27/2023	REVISED S&S PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

LICENSED LANDSCAPE ARCHITECT
IVAN VALENTIC
157-00158
STATE OF ILLINOIS

04/12/24

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

LANDSCAPE NOTES AND DETAILS

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

L-201
PLANNING#: 23-23-100000100
BUILDING#: 24-340
2

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:23 AM - stoneycutt

GENERAL ELECTRICAL SPECIFICATION

1. THE FOLLOWING ARE ABBREVIATED SPECIFICATIONS. ALL ITEMS NECESSARY FOR A COMPLETE AND OPERABLE JOB (TO THE SATISFACTION OF OWNER) WHETHER SHOWN OR IMPLIED SHALL BE HELD AS THE RESPONSIBILITY OF THE CONTRACTOR

2. IMPORTANT NOTE: "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS CONTRACTORS UNLESS NOTED OTHERWISE.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS THAT ARE TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.

4. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

5. CONTRACTOR SHALL NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.

6. CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: THE CONTRACT, SPECIFICATIONS, AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND TO PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF OWNER.

7. CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION AT ALL TIMES WHILE THE WORK IS BEING PERFORMED AND SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

8. INSTALLATION OF ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUITS, ETC. MUST BE COORDINATED WITH ALL OTHER TRADES. COORDINATE SHUTDOWN TIMES AND WORKING HOURS WITH BUILDING OWNER, INCLUDING OFF HOURS, WEEKEND, AND HOLIDAY WORK AS REQUIRED.

9. ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE AWARD OF THE CONTRACT AND AN ADDENDUM WILL BE ISSUED TO COVER SAME.

10. GUARANTEE - CONTRACTOR SHALL FURNISH OWNER WITH A WRITTEN GUARANTEE TO PROMPTLY REMEDY ALL DEFECTS OF WORK OR MATERIALS WITHOUT CHARGE FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE AND INSPECTION.

11. MATERIALS - ALL MATERIALS AND EQUIPMENT SHALL BE NEW, IN ORIGINAL CONTAINERS/WRAPPINGS, SHALL BE SPECIFICATION GRADE, AND LABELED OR LISTED BY U.L. OR AN ACCREDITED TESTING ORGANIZATION AS REQUIRED BY LOCAL INSPECTORS.

12. CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK

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

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

15. ANY METAL SHAVINGS FROM SITE WORK SHALL BE CLEANED FROM ALL SURFACES WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGES.

LICENSES, CERTIFICATIONS OF INSPECTION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK.

2. CONTRACTOR AND ALL OF HIS CONTRACTORS THAT PERFORM ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED BY ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO TAKE PLACE. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AS REQUIRED, ALL COSTS SHALL BE BORNE BY CONTRACTOR.

3. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS INCIDENTAL TO WORK UNDER THIS CONTRACT. WHEN THE WORK IS COMPLETED, THE REQUIRED CERTIFICATES OF APPROVAL SHALL BE FURNISHED TO THE BUILDING OWNER. CONTRACTOR MUST BE LICENSED IN THE STATE, COUNTY AND CITY OF THE PROJECT SITE.

CODES AND ORDINANCES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST EDITION OF NEC AND ALL APPLICABLE CODES AND ORDINANCES, INCLUDING SUCH AS PERTAIN TO THE SAFETY AND HEALTH RELATIONS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS ONLY IN CASE OF CONFLICT AND SHALL INCLUDE BUT NOT BE LIMITED TO:
   A. UL - UNDERWRITERS LABORATORIES
   B. NEC - NATIONAL ELECTRICAL CODE
   C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
   D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
   E. SBC - STANDARD BUILDING CODE
   F. NFPA - NATIONAL FIRE CODES

POST CONSTRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

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

EXISTING CONDITIONS AND DEMOLITION

1. ALL ELECTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE SALVAGED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED OFF THE PREMISES.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.

3. EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.

4. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST WITH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE OWNER IN ORDER TO RESOLVE ANY CONFLICTS. EXISTING ELECTRICAL CONDUIT, WIRING, ETC. DAMAGED DURING RENOVATION SHALL BE REPLACED IN LIKE KIND AND CHARACTER, AND AT THE EXISTING UTILITY LINES, DRAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND AND CHARACTER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING CONDUITS, CONTROL WIRING, ETC., WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

5. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.

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

BASIC ELECTRICAL MATERIALS AND METHODS

1. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL OR CUT CHASES IN WALLS AND FLOORS AS REQUIRED. ALL NEW OPENINGS SHALL BE COORDINATED WITH THE ENGINEER. ALL PENETRATIONS OF THE BUILDING WALLS, CEILING AND FLOORS, THE CONTRACTOR SHALL SEAL WITH QUALITY CAULK, FIRE RATED AND WATERTIGHT, SUBMITTED FOR APPROVAL BY THE OWNER.

2. TRASH REMOVAL: CONTRACTOR SHALL REMOVE ALL TRASH CREATED BY HIMSELF OR HIS CONTRACTORS DUE TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL ALSO REMOVE TRASH CREATED BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. PROMPTLY CLEAN-UP ALL SOILING, DEBRIS AND OTHER UNSIGHTLY OR HAZARDOUS CONDITIONS, CAUSED BY WORK OR DELIVERIES UNDER THIS CONTRACT, FROM THE BUILDING GROUNDS, ENTRIES, CORRIDORS, STAIRWAYS, ELEVATORS OR OTHER PUBLIC AREAS. ALL SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL FACILITY.

3. SIGNAGE: CONTRACTOR SHALL MAINTAIN SECURITY AROUND PERIMETER OF CONSTRUCTION SITE DURING ALL HOURS BY INSTALLING A TEMPORARY RIBBON FOR INTERIOR WORK TO IDENTIFY CONSTRUCTION AREAS AS REQUIRED. SIGNAGE SHALL BE POSTED WITH NOTIFICATIONS OF "NO TRESPASSING" AND "CONSTRUCTION AREA".

4. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING, SUBSEQUENT PATCHING, AND REQUIRED FLASHING FOR ALL ITEMS NECESSARY FOR ELECTRICAL PART OF THE CONTRACT. PATCH, PAINT, AND REPAIR ANY AREA DAMAGED TO THE SATISFACTION OF THE BUILDING OWNER.

6. THE EXACT LOCATIONS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND CONDUIT, AS SHOWN ON THE DRAWING, IS APPROXIMATE. WHEN NOT SHOWN IN DETAIL, THE EXACT LOCATION OR ROUTING SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.

7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR THE MOUNTING AND SUPPORT OF ALL ITEMS REQUIRING THE SAME AS REQUIRED BY N.E.C.

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

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

10. ALL BOLTS SHALL BE STAINLESS STEEL.

11. FOR UNDERGROUND RACEWAYS, PROVIDE ADDITIONAL SLACK IN CONDUCTORS AND CONDUIT EXPANSION JOINTS IN ORDER TO ALLOW FOR EARTH MOVEMENT FROM SETTLEMENT, FROST, ETC. IN ORDER TO PREVENT DAMAGE TO THE CONDUCTORS OR TO THE EQUIPMENT CONNECTED TO THE RACEWAYS PER THE NEC.

ELECTRICAL EQUIPMENT

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

2. 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

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

2. PROVIDE SHOP DRAWINGS OF EACH CONDITION REQUIRING PENETRATION SEALS AND THE PROPOSED UL SYSTEMS MATERIALS, ANCHORAGE, METHODS OF INSTALLATION, AND ACTUAL ADJACENT CONSTRUCTION. SUBMITTAL PACKAGE SHALL ALSO INCLUDE A COPY OF THE UL ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.

3. FIRESTOPPING MATERIALS SHALL BE INTUMESCENT SAFETY BARRIERS DESIGNED TO BLOCK THE SPREAD OF FIRE AND SMOKE THROUGH PENETRATIONS CREATED BY ELECTRICAL INSTALLATIONS IN FIRE RATED WALLS AND FLOORS. MATERIALS SHALL BE FLAME, TOXIC FUME, AND WATER RESISTANT AND SHALL HAVE A MINIMUM 3 HOUR FIRE RATING. FIRE RATING SHALL BE DEFINED BY TESTS CONDUCTED BY ASTM, UL OR OTHER TESTING AND INSPECTION AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

4. PROVIDE MATERIALS BY THE FOLLOWING MANUFACTURERS TO SUIT THE APPLICATION: SPECIFIED TECHNOLOGIES, INC (STI), SOMERVILLE, NJ; TREMCO, INC., BEACHWOOD, OH; OR 3M INC., MINNEAPOLIS, MN

FAULT CURRENT, COORDINATION STUDY, AND ARC FLASH

1. REFER TO SHEET E-201 FOR FAULT CURRENT CALCULATIONS. CONTRACTOR SHALL MARK ON ALL EQUIPMENT AS REQUIRED PER NEC

2. REFER TO SHEET E-301 FOR ARC FLASH LABEL DETAILS. CONTRACTOR SHALL LABEL ALL EQUIPMENT AS REQUIRED PER NEC

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1. ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ANY LOCAL CODES.

2. ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.

3. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.

4. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.

5. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.

6. 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 AND PRIOR TO EQUIPMENT ENERGIZATION PER NEC 230.95. 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.

7. 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.

8. 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.

9. 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.

10. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

11. ALL GROUNDING HARDWARE SUPPLIED AND INSTALLED BY CONTRACTOR.

ELECTRICAL IDENTIFICATION

1. PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.

2. PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.

3. COLOR CODING OF CONDUCTORS SHALL BE PER NEC REQUIREMENTS.

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

CONDUCTORS AND CABLES

1. WIRING - ALL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG FOR POWER, #14 AWG FOR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER, 600V, COLOR CODED, UNLESS NOTED ALUMINUM (AL). REFER TO "ALUMINUM CONDUCTOR REQUIREMENTS" THIS SHEET. PROVIDE 75°C RATED CONDUCTORS FOR AMPACITIES ABOVE 100A AND 60°C RATED CONDUCTORS FOR AMPACITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER. UNLESS NOTED OTHERWISE ON DRAWINGS.

2. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY N.E.C. (NOT TO EXCEED 3%).

3. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.

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

5. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.

6. CABLES - MC CABLE IS NOT PERMITTED.

7. PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.

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

ALUMINUM CONDUCTOR REQUIREMENTS

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

2. THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.

3. ALUMINUM CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. CONTRACTOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF WORK FOR RATED ALUMINUM CONNECTORS.

4. ALL ALUMINUM (AI) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.

5. THE CONTRACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS REQUIRED BY THE NEIS (NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION). THE CONTRACTOR SHALL ABIDE BY ALL STANDARDS IN THE NECA / AA - 2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:
   A. TERMINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP ONLY WITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER.
   B. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
   C. TERMINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
   D. NECA / AA RECOMMENDS BELLVILLLE WASHERS WHEN CONNECTING ALUMINUM CONNECTORS TO COPPER BUS BARS. ABIDE BY ALL NECA / AA RECOMMENDATIONS.
   E. DO NOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE ALL/ANY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF USED, FOLLOW UL GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS REQUIRED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED.

RACEWAY AND BOXES

1. RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE R.G.S. AND COVERED 6" BELOW FINISHED GRADE TO BE PVC, HDPE, OR LFNC. SEE NOTES A & B BELOW. PROVIDE WEATHERPROOF FLEX CONNECTIONS WHERE REQUIRED. CONTRACTOR SHALL PROVIDE JUNCTION AND/OR PULL BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SIZED PER N.E.C. PROVIDE NON-METALLIC ENCLOSURE WITH OPEN BOTTOM AND GASKETED COVER MANUFACTURED BY QUAZITE OR EQUIVALENT WITH DRIVE-OVER COVER ABLE TO WITHSTAND OCCASIONAL NON-DELIBERATE LIGHT VEHICULAR TRAFFIC. LABEL COVER TO SUIT INSTALLATION (I.E. "POWER" "COMMUNICATIONS", "LIGHTING", ETC.) AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
   A. OUTDOOR:
      - ABOVE GRADE: R.M.C.
      - BELOW GRADE: DURALINE SMOOTH-COR FLEX, SCH 40 PVC, SCH 40 HDPE, OR NON-METALLIC FLEXIBLE CONDUIT LISTED FOR DIRECT BURIAL. ALL UNDERGROUND CONDUIT SHALL BE 90°C WET RATED AND INSTALLED 24" MIN. BELOW GRADE. VERIFY APPROVED USE OF HDPE WITH AHJ PRIOR TO ROUGH-IN AND INSTALL PER NEC & MFR RECOMMENDATIONS.
   B. PARKING GARAGES:
      - RMC: 8'-0" OR LESS ABOVE GRADE OR PARKING GARAGE FLOOR LEVEL
      - EMT: 8'-0" MINIMUM ABOVE PARKING GARAGE FLOOR LEVEL AND WHERE NOT SUBJECT TO DAMAGE. CONTRACTOR SHALL VERIFY WITH ELECTRICAL INSPECTOR IF EMT IS APPROVED AT THIS PROJECT PRIOR TO ROUGH-IN.

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

3. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. CONTRACTOR SHALL PROVIDE MANUFACTURED LONG RADIUS BENDS FOR ALL CONDUITS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.

4. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

5. PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED, ANACONDA METAL HOSE; ANIXTER BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.

6. PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; CONDUX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED, RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.

7. PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; EMERSON ELECTRIC COMPANY, APPLETON ELECTRIC COMPANY; HUBBELL INCORPORATED, KILLARK ELECTRIC MANUFACTURING COMPANY; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.

8. PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.

9. PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY, FEDERAL-HOFFMAN INCORPORATED; HUBBELL INCORPORATED, RACO INCORPORATED; THOMAS & BETTS, CARLON ELECTRICAL PRODUCTS; O-Z/GEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED, ELECTRICAL DIVISION; OR SCOTT FETZER COMPANY, ADALET-PLM.

SAFETY SWITCHES

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

FUSES

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

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LICENSED PROFESSIONAL ENGINEER
STEVEN P. SCHAUB
062-065050
STATE OF ILLINOIS

Signature
Date 04/12/24
11/30/2025
exp. date

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

ELECTRICAL
GENERAL NOTES

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

E-001
PLANNING#: 23-23-100000100
BUILDING#: 24-340
2

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
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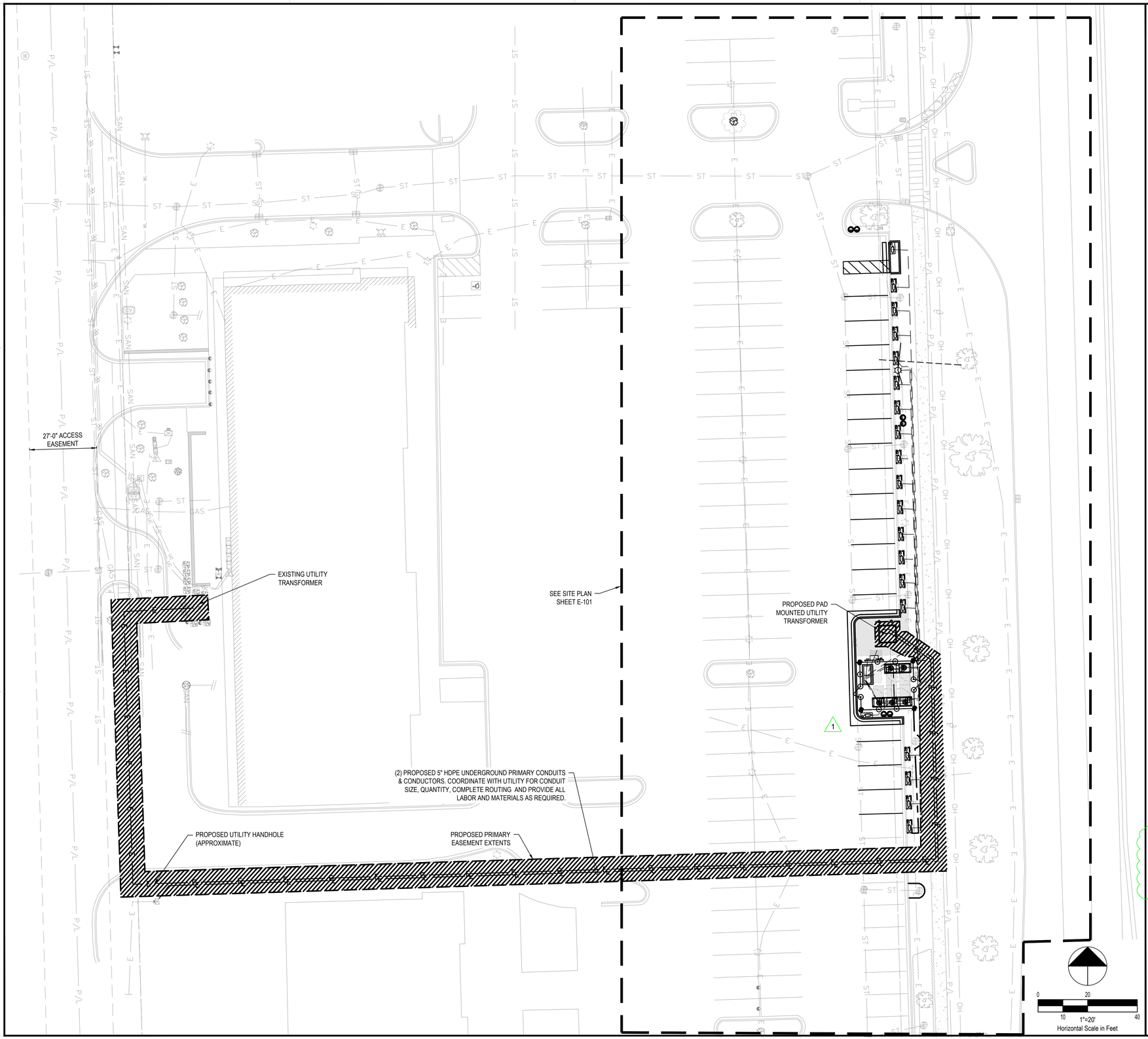

GENERAL SHEET NOTES

1. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY CONTRACTOR IN FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR SHALL ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY RIVIAN PROJECT MANAGER).
2. THE CONDUIT ROUTING SHOWN IS DIAGRAMMATICAL ONLY, CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO LAYING CONDUIT.

ELECTRICAL SCOPE OF WORK RESPONSIBILITIES

SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY SIDE TRENCHING/BORING	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 AND UTILITY TRANSFORMER (PRIMARY)	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY)	X	
PROVIDE METER BASE		X
INSTALL METER BASE		X
PROVIDE METER	X	
INSTALL METER	X	
PROVIDE CT CABINET		X
INSTALL CT CABINET		X
PROVIDE CTs	X	
INSTALL CTs (INSIDE CT CABINET)	X	
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS		X
PROVIDE ROAD CUTS / ROAD BORES		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY NAPERVILLE DPU-E. FIELD VERIFY PRIOR TO CONSTRUCTION.

DEPARTMENT OF PUBLIC UTILITIES - ELECTRIC GENERAL NOTES

1. THE DEVELOPER SHALL SUPPLY THE DPU-E ENGINEER WITH CATALOG CUTS FOR ALL CT/METER EQUIPMENT (INCLUDING BUT NOT LIMITED TO METER SOCKETS, PT CABINET, CT CABINET, DISCONNECT CABINET) AND TRANSFORMER PAD/VAULT. THE CATALOG CUTS SHALL BE APPROVED BY DPU-E PRIOR TO PURCHASING.
2. DPUE WILL PROVIDE, INSTALL, AND MAINTAIN THE TRANSFORMERS, ALL PRIMARY (15KV) CABLE AND CONDUIT, AND THE METERS AND INSTRUMENT TRANSFORMERS. DPUE WILL ALSO MAKE THE FINAL CONNECTIONS IN THE TRANSFORMERS ONCE THE INSPECTION IS COMPLETE AND THE SERVICE IS READY TO BE ENERGIZED.
3. THE DEVELOPER IS RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE TRANSFORMER PAD/VAULT, ALL SERVICE LATERAL (480V) CABLE AND CONDUIT, THE SERVICE ENTRANCE EQUIPMENT INCLUDING THE CT/METER CABINET AND ALL BANKED METER SOCKETS.
4. THE DEVELOPER SHALL COORDINATE SITE CONSTRUCTION WITH DPU-E TO ALLOW ELECTRIC FACILITIES TO BE INSTALLED PRIOR PAVING AND CURBING. DPU-E REQUIRES 30 WORKING DAYS ADVANCE WRITTEN NOTICE PRIOR TO PAVEMENT INSTALLATION TO ALLOW FOR THE INSTALLATION OF ELECTRIC FACILITIES. GRADE ELEVATION MUST BE WITHIN 4" OF FINAL GRADING BEFORE ELECTRIC FACILITIES CAN BE INSTALLED.
5. ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8-1C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE.
6. AT ALL TIMES, THE CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING A SUITABLE APPROACH TO THE METER LOCATION, WITH NO OBSTRUCTIONS WITHIN FOUR (4') FEET OF THE FRONT AND TWO (2') FEET OF THE SIDES OF THE METER. PER NAPERVILLE SERVICE RULES AND POLICIES 22.2.F.
7. CLEARANCE TO TRANSFORMER PAD SHALL BE 5' FROM ALL SIDES, 10' FROM FRONT, AND THE AREA ABOVE MUST BE COMPLETELY CLEAR OF OBSTRUCTION. NO TREES, SHRUBS, OR OTHER OBSTACLES WILL BE ALLOWED WITHIN THIS AREA. TRANSFORMER PAD SHALL MAINTAIN MINIMUM CLEARANCE OF 20' FROM EGRESS POINTS PER DPU-E SPECIFICATIONS C10-2130 AND C30-0016.
8. MAINTAIN MINIMUM 5' OF SEPARATION BETWEEN PROPOSED ELECTRICAL FACILITIES AND ANY FIRE HYDRANDS, STORM DRAINS, STORM SEWERS, WATER MAINS, GAS MAINS, ETC. THAT RUN PARALLEL TO DPU-E FACILITIES PER DPUE SPECIFICATIONS.
9. APPROVAL OF METERING EQUIPMENT BY DPU-E DOES NOT REMOVE YOUR RESPONSIBILITY TO COMPLY WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY OF NAPERVILLE. DETERMINATION OF COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE WILL BE MADE BY THE TRANSPORTATION, ENGINEERING AND DEVELOPMENT DEPARTMENT.
10. THE CUSTOMER GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO DPU-E DISTRIBUTION EQUIPMENT.

2

UTILITY COMPANY CONTACT

NAPERVILLE DPU-E
CONTACT: GIOVANNI HERNANDEZ
(630) 548-1212
GIOVANNI.HERNANDEZ@NAPERVILLE.IL.US

1

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LICENSED PROFESSIONAL ENGINEER
STEVEN P SCHAUB
062-065050
STATE OF ILLINOIS

Signature 04/12/24
Date
11/30/2025
exp. date

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

OVERALL ELECTRICAL SITE PLAN

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

E-100
PLANNING#: 23-23-100000100
BUILDING#: 24-340

2

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - C0100_rev2.dwg
April 12, 2024 11:21 AM - showpsolt

DC CHARGING POST LENGTHS			
CABINET	POST	LF	***EST***
1	1A	184	206
	1B	173	195
	1C	163	185
	1D	153	175
2	2A	135	157
	2B	126	148
	2C	116	138
	2D	106	128
3	3A	108	130
	3B	91	113
	3C	81	103
	3D	71	93
4	4A	72	94
	4B	62	84
	4C	52	74
	4D	13	35
5	5A	43	65
	5B	53	75
	5C	63	85
	5D	73	95
EST CONDUIT LENGTH			2378

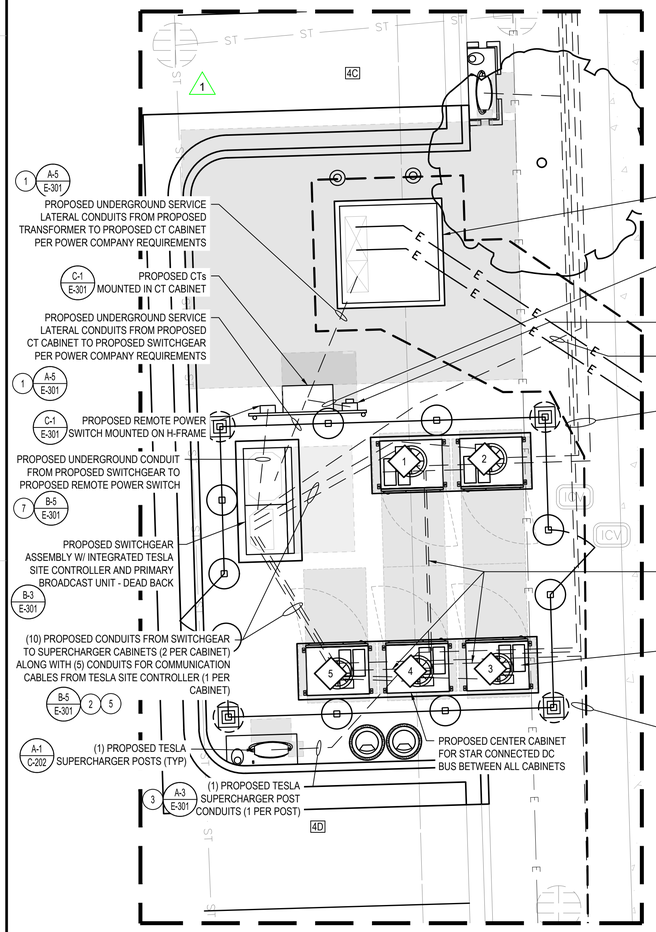
AC CHARGING CABINET LENGTHS			
CIRCUIT	CABINET	LF	**EST**
1	1	11	27
2	2	16	32
3	3	21	37
4	4	16	32
5	5	11	27
TOTAL LENGTH OF AC WIRE			1240
TOTAL LENGTH OF GND Cu WIRE			310

SEE SHEET E-201 FOR FEEDER SCHEDULE
TOTAL LENGTH OF AC WIRE
SUM OF EST LENGTH x 8 WIRES PER CABINET
TOTAL LENGTH OF GND Cu
SUM OF EST LENGTHS x (2) SETS

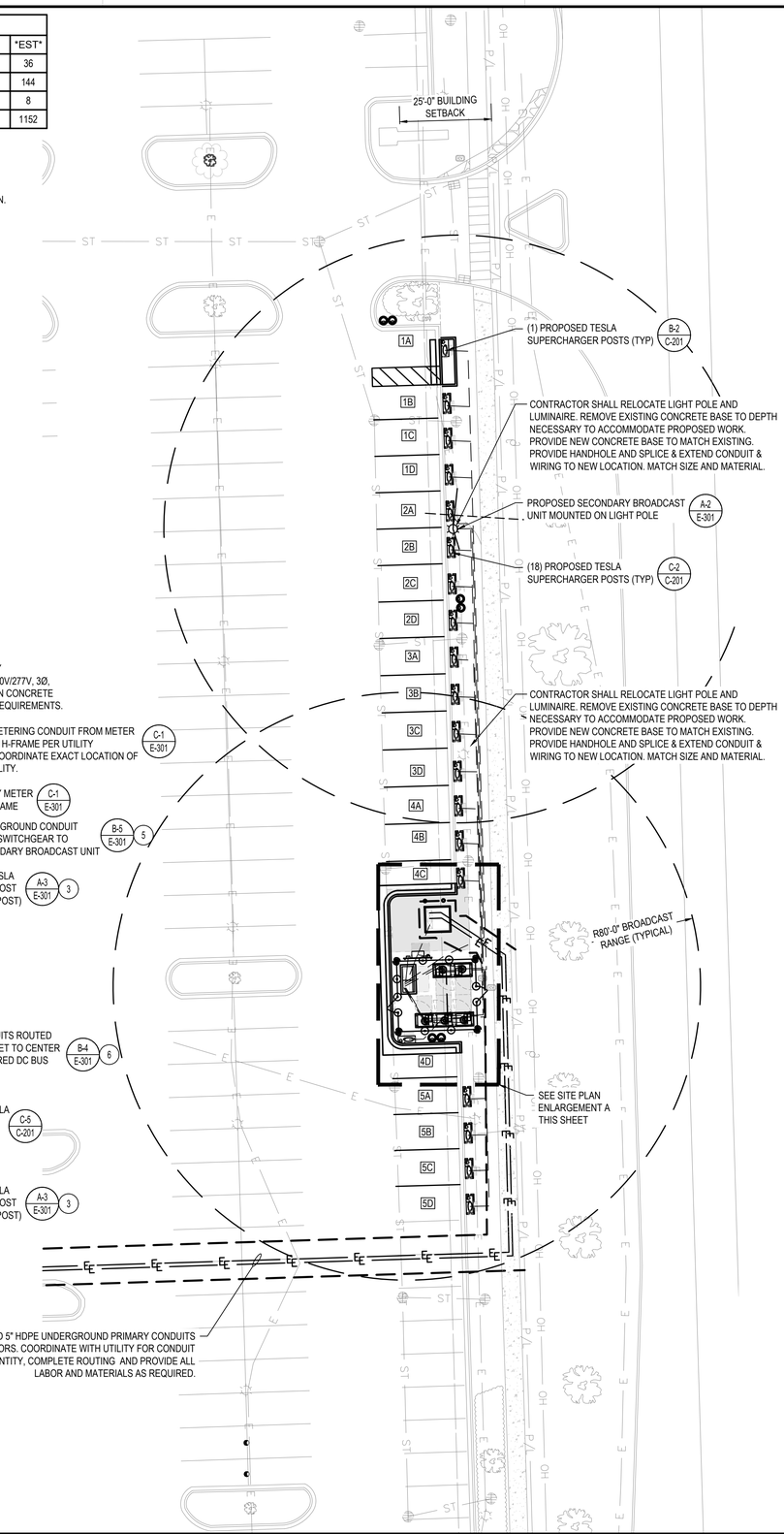
NOTE:
CONDUIT ROUTING SHOWN ON THE PLAN VIEW ARE APPROXIMATE LOCATIONS. CONDUIT PLACEMENT AND RUN LENGTHS TO BE VERIFIED BY CONTRACTOR BASED ON EXISTING SITE CONDITIONS AND PHYSICAL MEASUREMENTS PRIOR TO MATERIAL ORDERING.

UTILITY SERVICE LENGTHS		
UTILITY TRANSFORMER TO SWITCHGEAR	LF	*EST*
	14	36
TOTAL LENGTH OF WIRE PER CONDUIT		144
NUMBER OF WIRE FILLED CONDUIT		8
TOTAL LENGTH OF WIRE		1152

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



A SITE PLAN ENLARGEMENT
1" = 5'



0 20
10 1"=20' 40
Horizontal Scale in Feet

GENERAL SHEET NOTES

1. "(#)" DENOTES FEEDER REFERENCE. REFER TO SHEET E-201 FOR FEEDER/CIRCUIT SCHEDULE.
2. CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
3. CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
4. 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.
5. ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
6. PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
7. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
8. 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.
9. FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET C-003.

LEGEND

(#) FEEDER SCHEDULE REFERENCE
SEE SHEET E-201 FOR FEEDER/CIRCUIT SCHEDULE

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LICENSED PROFESSIONAL ENGINEER
STEVEN P SCHAUB
062-065050
STATE OF ILLINOIS
Signature
Date 04/12/24
exp. date 11/30/2025

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ELECTRICAL SITE PLAN

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
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E-101
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BUILDING#: 24-340
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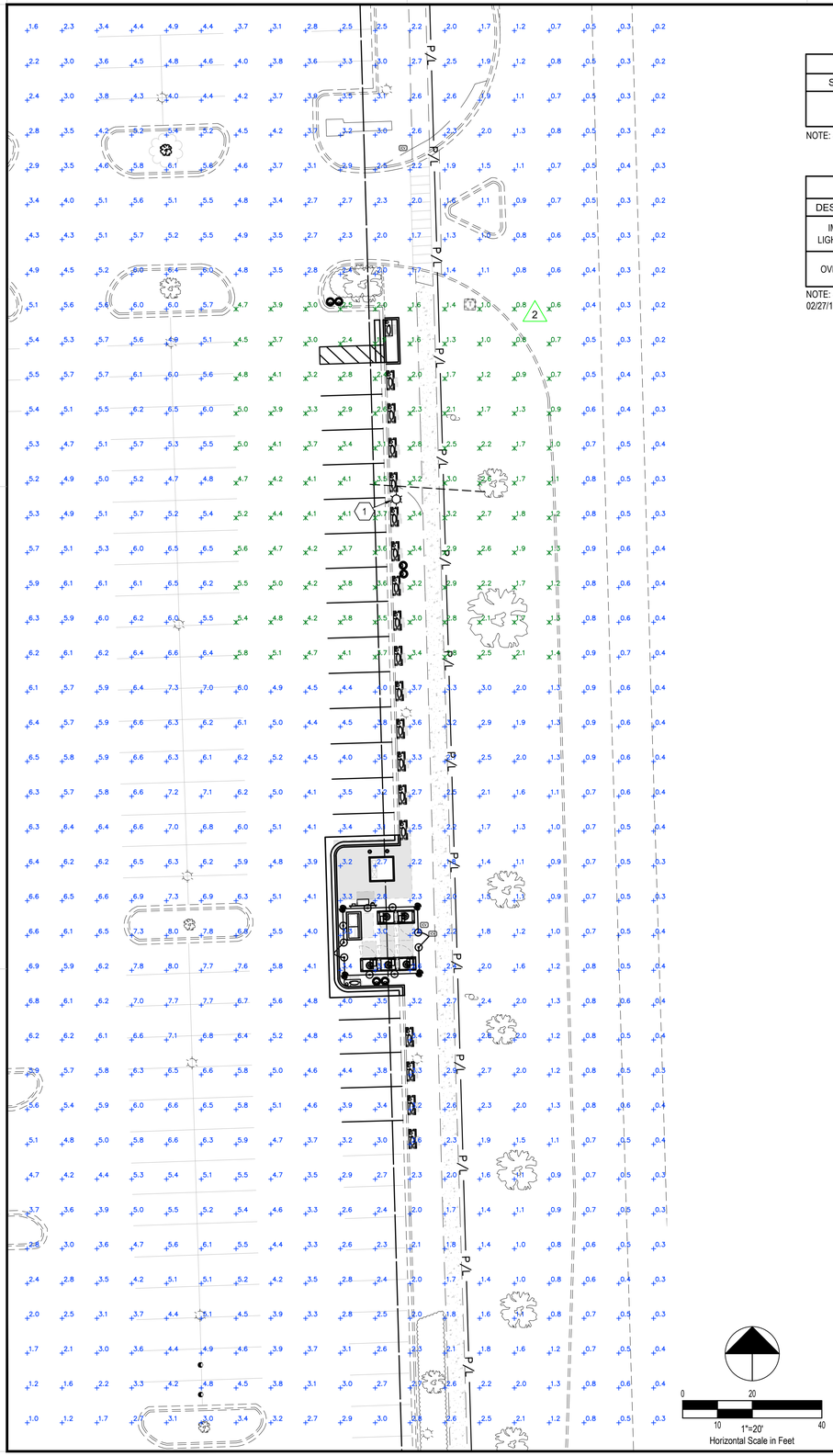

0 10 20 40
1"=20'
Horizontal Scale in Feet

FIXTURE SCHEDULE							
SYMBOL	QTY.	MFR.	SERIES	LUMENS	LLF	DESCRIPTION	LUM. WATTS
	1	PHILIPS	GARDCO EH19	40,000	0.500	GARDCO-EH19-VS-400-MH 25' MOUNTING HEIGHT	455

NOTE: SEE 'LUMINAIRE SCHEDULE' ON PHOTOMETRIC PLAN DATED 02/27/19 FOR FULL EXISTING CONDITIONS.

STATISTICS					
DESCRIPTION	AVERAGE	MAX.	MIN.	MAX/MIN	AVG/MIN
IMPACTED LIGHTING AREA	2.9 FC	5.8 FC	0.6 FC	9.7:1	4.8:1 2
OVERALL SITE	3.0 FC	8.0 FC	0.1 FC	80.0:1	30.0:1

NOTE: SEE 'EXISTING CONDITIONS CALCULATION SUMMARY' ON PHOTOMETRIC PLAN DATED 02/27/19 FOR FULL EXISTING CONDITIONS.

GENERAL SHEET NOTES

1. PROPOSED PHOTOMETRIC PLAN IS BASED ON EXISTING CONDITIONS SHOWN IN PHOTOMETRIC PLAN DATED 02/27/19 BY OTHERS, SEE SHEET E-305.
2. GREEN INDICATES LIGHTING AREAS IMPACTED BY PROPOSED IMPROVEMENTS. BLUE INDICATES EXISTING CONDITIONS.

PLAN KEYNOTES

1. PROPOSED RELOCATED LIGHT POLE (TOTAL OF 1).

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PHOTOMETRIC PLAN

PROJECT MANAGER	DESIGNER
IM	NSE

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2023141.99

E-102 2
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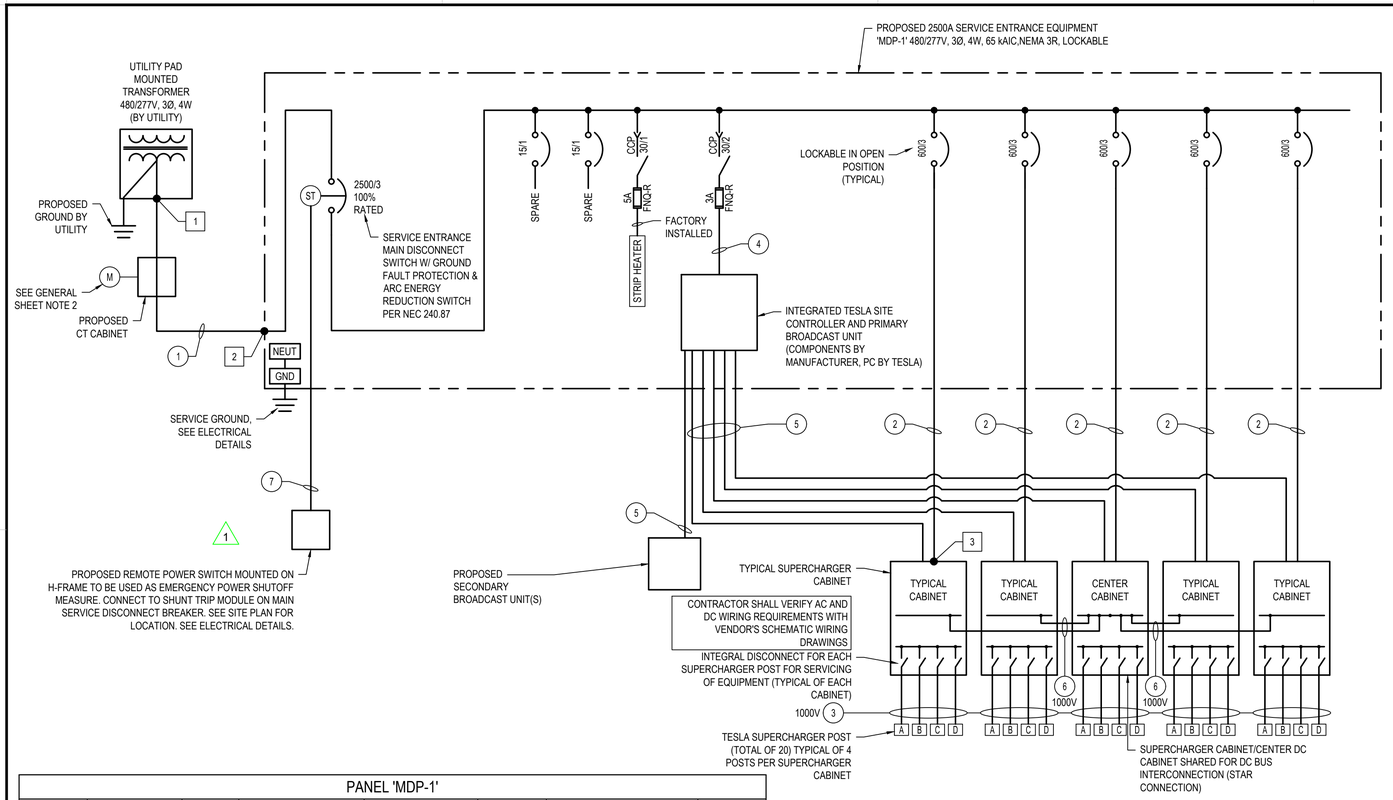


GENERAL SHEET NOTES

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 CT CABINET. PROPOSED METER SHALL BE MOUNTED ON H-FRAME.
3. ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR.
4. ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. SEE SHEET E-101 FOR UTILITY/CONTRACTOR SCOPE OF WORK.
5. THE TESLA PROVIDED SUPERCHARGER CABINETS AND SUPERCHARGER POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
   - TUV CERTIFIED TO UL 2202
6. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
7. REFER TO THIS SHEET FOR FAULT CURRENT CALCULATIONS. CONTRACTOR SHALL MARK ON ALL EQUIPMENT AS REQUIRED PER N.E.C.
8. REFER TO SHEET E-301 FOR ARC FLASH LABEL DETAILS. CONTRACTOR SHALL LABEL ALL EQUIPMENT AS REQUIRED PER N.E.C.

FEEDER / CIRCUIT SCHEDULE

NO	CONFIGURATION
1	(8) SETS OF 4" CONDUIT EACH WITH (3) 600 MCM AI (1) 600 MCM AI NEUT
2	(2) SETS OF 4" CONDUIT EACH WITH (3) 500 MCM AI (1) 500 MCM AI NEUT (1) #1 AWG Cu GND
3	(1) SET IN 4" CONDUIT (HDPE 90°C CONDUIT IS ACCEPTABLE) WITH (4) 600 MCM AI (TWO +, TWO -) (1) #2/0 AWG Cu GND (1) 1.25" CONDUIT (DURALINE IS ACCEPTABLE**) WITH (1) 1000V, CLASS 1, COMM CABLE (2) #8 AWG Cu (LVDC) - 6' MIN COIL AT EACH END **SEE DETAIL ON SHEET E-301 FOR DURALINE TO PVC TRANSITION AND ADDITIONAL NOTES
4	FACTORY INSTALLED WIRING
5	OUTDOOR RATED/SHIELDED CAT6 CABLE IN 1" CONDUIT.
6	(2) SETS OF 3" CONDUIT EACH WITH (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 1" CONDUIT WITH (1) #12 AWG Cu (THWN-2) (1) #12 AWG Cu NEUT (THWN-2) (1) #12 AWG Cu GND (THWN-2)

NOTES:
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 E-001 FOR CONDUIT USE TYPES FOR ABOVE AND BELOW GRADE APPLICATIONS
4. DURALINE PRODUCT WILL BE USED FOR "DC-POST" CONDUIT RUN ONLY.

PANEL 'MDP-1'

STATUS:	NEW		VOLTAGE:	480Y/ 277 3Ø 4W	RATED FAULT CURRENT:	65 kAIC
LOCATION:	OUTDOOR		MAINS RATING (AMPS):	2500 100% RATED	RATING TYPE:	FULLY RATED
SUPPLY:	UTILITY XFMR		BUS RATING (AMPS):	2500 100% RATED	MOUNTING:	PAD
ENCLOSURE:	NEMA 3R		MAINS:	MCB	SERVICE ENTRANCE RATED:	YES
					ISOLATED GROUND BAR:	NO

CKT #	DESCRIPTION	LOAD	AMPS/POLES	A	B	C	AMPS/POLES	LOAD	DESCRIPTION	CKT #
		TOTAL PER PHASE (kVA)								
1	TESLA SUPERCHARGER CABINET	129.00	600/3	258.00			600/3	129.00	TESLA SUPERCHARGER CABINET	2
3		129.00			258.00			129.00		4
5		129.00				258.00		129.00		6
7	TESLA SUPERCHARGER CABINET	129.00	600/3	258.00			600/3	129.00	TESLA SUPERCHARGER CABINET	8
9		129.00			258.00			129.00		10
11		129.00				258.00		129.00		12
13	TESLA SUPERCHARGER CABINET	129.00	600/3	129.00				0.00	SPACE	14
15		129.00			129.00			0.00		16
17		129.00				129.00		0.00		18
19	SPACE	0.00		0.00				0.00	SPACE	20
21		0.00			0.00			0.00		22
23		0.00				0.00		0.00		24
25	SPACE	0.00		0.00				0.00	SPACE	26
27		0.00			0.00			0.00		28
29		0.00				0.00		0.00		30
31	SPACE	0.00		0.00				0.00	SPACE	32
33	SPARE	0.00	15/1		0.00			0.00		34
35	SPARE	0.00	15/1			0.00		0.00		36
37	STRIP HEATER	0.30	30/1	0.30				0.00	SPACE	38
39	TESLA SITE CONTROLLER	0.10	30/2		0.10			0.00		40
41		0.10				0.10		0.00		42
		TOTAL kVA		645.30	645.10	645.10	TOTAL CONN kVA		1935.50	
		TOTAL AMPS		2329.60	2328.88	2328.88	TOTAL CONN AMPS		2328.04	
		% UNBALANCE		0.0%	0.0%	0.0%				

AVAILABLE FAULT CURRENT (AMPS)

1	44,522
2	43,684
3	42,018

BREAKER SETTINGS

USE	SIZE	LONG TIME PICKUP	LONG TIME DELAY	SHORT TIME PICKUP	SHORT TIME DELAY	INST	GROUND FAULT PICKUP	GROUND FAULT DELAY
MCB - ABB E2.2 BKR	2500A	1.0 (2,500A)	24 (I^2T ON)	2.00	0.2 (I^2T OFF)	15	0.4	0.4 (I^2T OFF)
MCB - SQUARE D NW BKR	2500A	1.0 (2,500A)	4	1.50	0.2 (I^2T OFF)	15	J	0.4 (I^2T OFF)
MCB - SQUARE D MTZ BKR	3000A	0.8 (2,400A)	4	1.50	0.2 (I^2T OFF)	15	0.4	0.4 (I^2T OFF)
BRANCH CIRCUIT - ABB	600A	MAX (600A)	X	X	X	MIN (3,000A)	X	X
BRANCH CIRCUIT - SQUARE D	600A	X	X	X	X	2	X	X

NOTE: CONTRACTOR SHALL VERIFY BREAKER MAKE/MODEL AND SET PER THE ABOVE TABLE. NOTIFY TESLA IMMEDIATELY OF ANY DISCREPANCIES.

TESLA SUPERCHARGER CABINET AND 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
V4	380V - 480V	387kVA	465A	0V - 500V	615A	640A	85 kAIC

PANEL BOARD NOTES

1. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. PROVIDE TYPED PANEL DIRECTORY MOUNTED PER MANUFACTURERS RECOMMENDATIONS WITH SERVICE EQUIPMENT.
2. OCPD FOR POWER CABINETS ARE CALCULATED AS FOLLOWS: 465A AC INPUT TO CABINET x 1.25 = 581.25A ⇨ 600A BRANCH REQUIRED
3. CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO DETERMINE MAXIMUM SHORT CIRCUIT AMPS (SCA), AND PROVIDE CALCULATIONS IN ORDER TO PROVIDE PROPERLY RATED EQUIPMENT. PROVIDE LABELS ON ELECTRICAL EQUIPMENT PER NEC 110.16 AND LOCAL JURISDICTION REQUIREMENTS.
4. PER NEC 230.42(A)(1) EXCEPTION 2: THE SUM OF THE TOTAL CONNECTED LOADS (NON-CONTINUOUS LOAD PLUS THE CONTINUOUS LOAD) TERMINATE IN AN OVERCURRENT DEVICE WHERE BOTH THE OVERCURRENT DEVICE AND ITS ASSEMBLY ARE LISTED FOR OPERATION AT 100% OF THEIR RATING, SIZED PER CONNECTED LOAD.

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

GPD GROUP, INC.®
LIC. # - 184-007100
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
B	07/27/2023	ISSUED FOR 90% REVIEW
C	08/21/2023	REVISED FOR 90% REVIEW
D	09/29/2023	ISSUED FOR SIGN & SEAL
0	11/27/2024	REVISED S&S PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

LICENSED PROFESSIONAL ENGINEER
STEVEN P. SCHAUB
062-065050
STATE OF ILLINOIS
Signature
Date 04/12/24
exp. date 11/30/2025

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

SINGLE LINE DIAGRAM & PANEL SCHEDULE

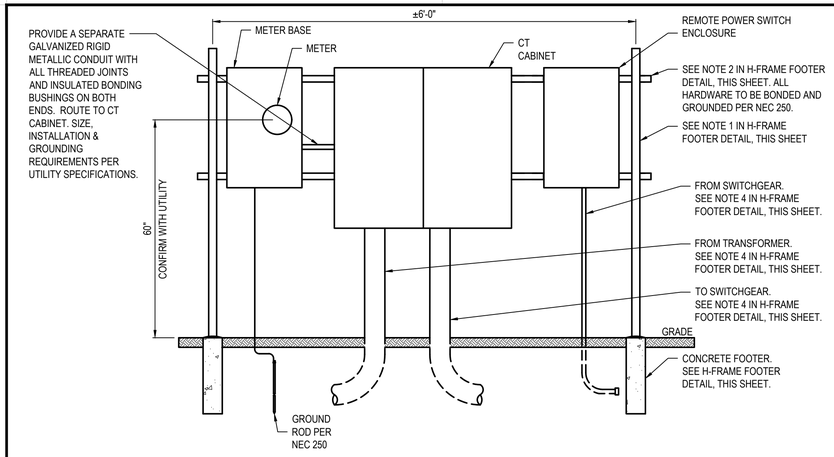
PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO. 2023141.99

E-201 2

PLANNING#: 23-23-10000100
BUILDING#: 24-340

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:21 AM - shoneycutt

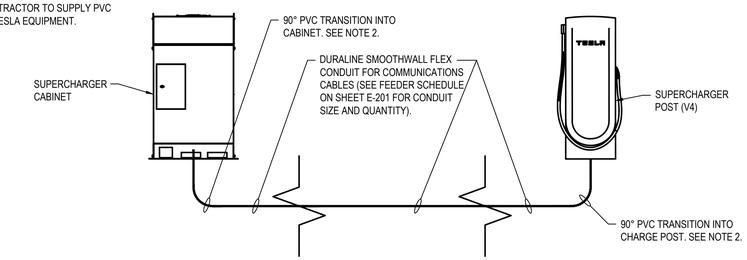


C-1 METER, TOP FED CT CABINET AND REMOTE POWER SWITCH ON H-FRAME

NTS

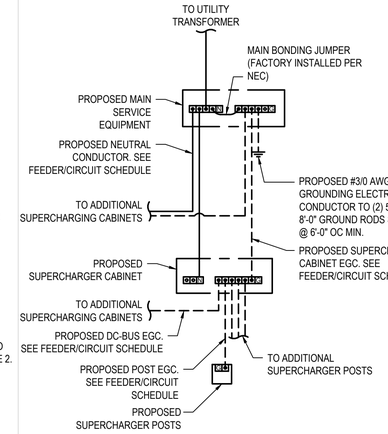
NOTES

1. DURALINE FLEX CONDUIT HAS BEEN CERTIFIED AS A CRITICAL COMPONENT OF THE SUPERCHARGER POST BY TUV. TESTING REPORTS SHOWING HOW THIS PRODUCT MEETS UL STANDARDS ARE AVAILABLE UPON REQUEST. PRODUCT WILL BE USED FOR "DC-POST" CONDUIT RUN ONLY.
2. DURALINE FLEX CONDUITS REQUIRE THE USE OF 90° PVC TRANSITIONS AT EACH END AND/OR HARD BENDS. CONTRACTOR TO SUPPLY PVC TRANSITIONS TO TESLA EQUIPMENT.



C-3 DURALINE TO PVC TRANSITION

NTS



C-5 TYPICAL GROUNDING DIAGRAM

N.T.S.

DANGER

NO SAFE PPE EXISTS
ENERGIZED WORK PROHIBITED

FLASH PROTECTION		SHOCK PROTECTION	
Incident Energy at Min. Arc Rating:	18 in 144.5 cal/cm^2	Shock risk when cover is removed	480 VAC
Arc Flash Boundary:	361 in	Limited Approach	42 in
Glove Class:	00	Restricted Approach	12 in

DO NOT WORK ON LIVE!

Bus: INCOMING SECTION-MAIN Prot: MaxTripTime @2.0s

INCOMING UTILITY SECTION

WARNING

Arc Flash and Shock Risk
Appropriate PPE Required

FLASH PROTECTION		SHOCK PROTECTION	
Incident Energy at Min. Arc Rating:	18 in 4.22 cal/cm^2	Shock risk when cover is removed	480 VAC
Arc Flash Boundary:	40 in	Limited Approach	42 in
Glove Class:	00	Restricted Approach	12 in

Bus: CHARGING CABINETS Prot: 600A BREAKER

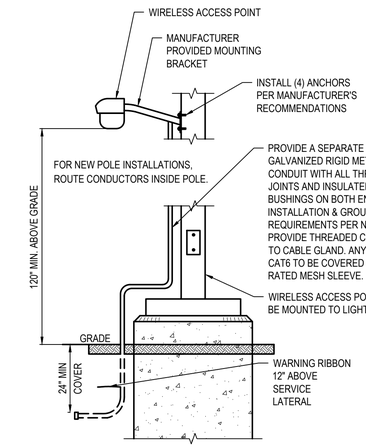
CHARGING CABINETS

NOTES:

1. FOR ANY QUESTIONS OR CLARIFICATIONS REGARDING LABELS, CONTACT TESLA.
2. ARC FLASH INCIDENT ENERGY ANALYSIS COMPLETED PER NFPA 70E 2018.
3. ARC FLASH CALCULATIONS PER IEEE 1584, 2018.
4. LABELS SHALL BE PRINTED WITH PERMANENT INK ON WEATHERPROOF LABELS WITH SELF STICKING ADHESIVE.
5. INSTALL LABELS PER NEC SECTION 110.16.
6. 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).
7. CONTRACTOR SHALL PROVIDE LABELS WITH ANY ADDITIONAL INFORMATION AS REQUIRED BY LOCAL JURISDICTION, STATE AND FEDERAL CODES AND LAWS.

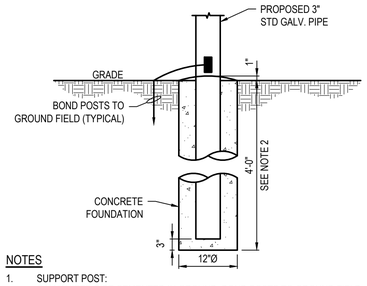
A-1 ARC FLASH LABELS

N.T.S.



A-2 SECONDARY BROADCAST UNIT

NTS



NOTES

1. SUPPORT POST:
   GALVANIZED PIPE CEMENTED IN GROUND. BOND POSTS TO GROUND FIELD.
2. 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 SECURELY MOUNTED TO SUPPORT POSTS.
3. REFER TO FEEDER/CIRCUIT SCHEDULE FOR CONDUIT SPECIFICATION
4. ALL ABOVE GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL. PROVIDE PVC TO RGS COUPLER FOR TRANSITION.
5. ALL CUT POST & UNISTRUT ENDS SHALL BE FILED, GALVANIZED AND CAPPED.
6. IF FROST DEPTH EXCEEDS 4'-0", FOOTER TO EXCEED FROST DEPTH.
7. ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY IF GROUND WATER IS ENCOUNTERED DURING CONSTRUCTION.

B-2 H-FRAME FOOTER

NTS

TESLA SUPERCHARGER
2724 SHOWPLACE
DRIVE 1-877-798-3752

PLACE ON FRONT SWITCHBOARD

TESLA EV SYSTEM DISCONNECT

PLACE ON SWITCHBOARD MAIN DISCONNECT

PLACARD NOTES:
PLACARDS TO BE MADE OF RED PHENOLIC PLASTIC W/ 1" WHITE LETTERING, ATTACH PLACARDS WITH RIVETS OR SELF TAPPING SCREWS

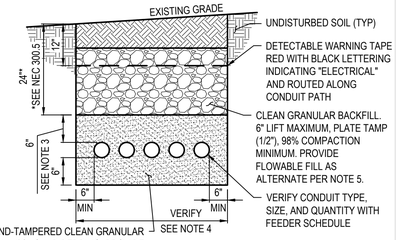
ADDITIONAL PLACARDS REQUIRED FOR ARC FLASH LABELS

CONTRACTOR SHALL VERIFY FAULT CURRENT CONTRIBUTION WITH UTILITY AND UPDATE PLACARD DETAIL PRIOR TO GENERATING AND INSTALLING PLACARD. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES

MAXIMUM AVAILABLE FAULT CURRENT
44,522 A
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

B-3 PLACARD DETAIL

N.T.S.

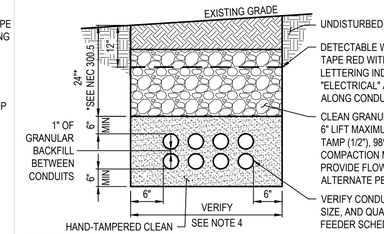


*IF DIRECT BURIAL METHOD IS DESIRED, PLEASE REFERENCE DIRECT BURIAL NOTES, THIS SHEET.

1. ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF. ALL TRENCHING SHALL BE ACCORDING TO THE LATEST OSHA STANDARDS.
2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
3. CONTRACTOR SHALL INSTALL CONDUITS BELOW LOCAL FROST LINE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH TESLA CONTACT LISTED ON C-001.
4. VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING FOR APPROXIMATE ROUTING.
5. THE CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.
6. DC BUS CONDUITS ARE NOT TO BE STACKED UNDER ANY CIRCUMSTANCES.

B-4 DC BUS CIRCUIT TRENCH*

N.T.S.



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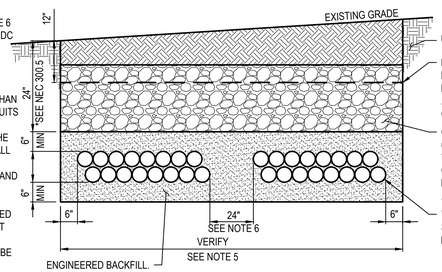
2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRECONSTRUCTION CONDITIONS OR BETTER.
3. CONTRACTOR SHALL INSTALL CONDUITS BELOW LOCAL FROST LINE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH CONTACT ENGINEER LISTED ON SHEET C-001.
4. VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING ON SHEET E-101 FOR ROUTING.
5. THE CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.

B-5 TYPICAL FEEDER TRENCH*

N.T.S.

NOTES

1. DUCT BANK DESIGNED AND CERTIFIED BY TESLA, SEE NOTE 6 FOR ADDITIONAL INFORMATION. TRENCHES WITH UP TO 16 DC POST CONDUITS MAY BE INSTALLED WITH NO CONDUIT SPACING. ENGINEERED BACKFILL WITH A RHO VALUE LESS THAN 100 MUST BE USED FOR BACKFILL. TRENCHES WITH MORE THAN 16 DC POST CONDUITS MUST INCLUDE A 24" SEPARATION BETWEEN CONDUIT GROUPS OF NOT MORE THAN 16 CONDUITS. GROUPINGS OF 4 OR FEWER DC POST CONDUITS MAY BE INSTALLED WITHOUT ENGINEERED BACKFILL. THIS CONDUIT CONFIGURATION HAS NOT BEEN REVIEWED BY THE STAMPING PARTY. THEREFORE, THE STAMPING PARTY SHALL NOT BE HELD LIABLE FOR ITS USE. ANY RELIANCE ON THIS DETAIL SHALL BE AT THE RELYING PARTY(IES)'S OWN RISK AND HEREBY WAIVES ANY AND ALL CLAIM(S) RELATED TO THE EXISTENCE OF THE STAMP OR OTHERWISE.
2. ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF. ALL TRENCHING SHALL BE ACCORDING TO THE LATEST OSHA STANDARDS.
3. ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
4. CONTRACTOR SHALL 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 TRENCH PER THE NEC. SHOULD FIELD CONDITIONS VARY OR CONFLICTS OCCUR, CONTRACTOR SHALL COORDINATE WITH TESLA CONTACT LISTED ON SHEET C-001.
5. FIELD VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING FOR ROUTING.
6. CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.
7. THIS DETAIL REQUIRED FOR USE WITH 350MCM AI DC CONDUCTORS ONLY. WHEN INSTALLING LARGER DC CONDUCTORS, USE REQUIREMENTS DETAILED IN TYPICAL TRENCH DETAIL, THIS SHEET.

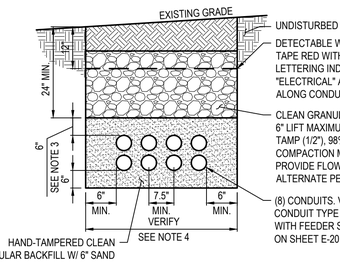


*CONTRACTOR TO VERIFY IF LOCAL JURISDICTION HAS SPECIAL REQUIREMENTS PRIOR TO CONSTRUCTION.

**IF DIRECT BURIAL METHOD IS DESIRED, PLEASE REFERENCE DIRECT BURIAL NOTES, THIS SHEET.

A-3 DC POST CONDUIT TRENCH**

N.T.S.



1. ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF.
2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRECONSTRUCTION CONDITIONS OR BETTER.
3. CONTRACTOR SHALL INSTALL CONDUITS BELOW LOCAL FROST LINE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH CONTACT ENGINEER LISTED ON SHEET C-001.
4. VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING ON SHEET E-101 FOR ROUTING.
5. VERIFY ALL REQUIREMENTS WITH POWER COMPANY
6. THE CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.

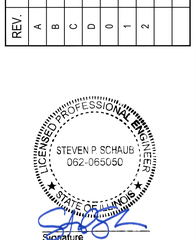
A-5 SECONDARY FEEDER TRENCH

N.T.S.

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

GPD GROUP, INC.®
LIC. # - 184-007100
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
B	07/27/2023	ISSUED FOR 90% REVIEW
C	08/21/2023	REVISED FOR 90% REVIEW
D	09/29/2023	ISSUED FOR SIGN & SEAL
0	11/27/2023	REVISED S&S PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN



Signature 04/12/24

Date 11/30/2025
exp. date

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

ELECTRICAL DETAILS

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

E-301 2

PLANNING#: 23-23-10000100
BUILDING#: 24-340

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
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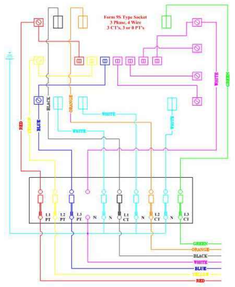
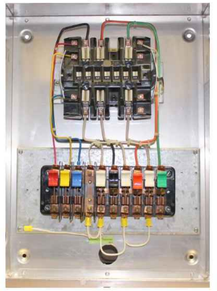




Notes:

1. Height to center of meter must be between 40"-60"
2. Meter socket must be labeled with address with 1" permanent labels (No markers)
3. 1"continues conduit to meter socket from CT/PT cabinet (No condulets)

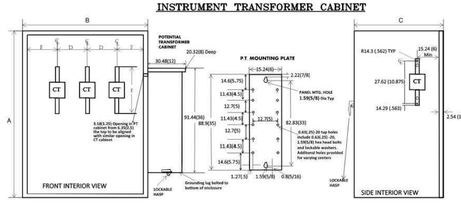
NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS	METER SOCKET FOR INSTRUMENT TRANSFORMER INSTALLATIONS 3PHASE, 4WIRES, 13 TERMINALS	DATE: 6-24-04 Page 1 of 2 C50-6310

STANDARD REVISION HISTORY

Revision	Date	Description	Revised by	Checked by	Approved by
1	9-21-15	Added neutral jumper note	M. Diab	M. Diab	S. Khan
2	8-03-18	Replaced with correct picture and dimensions	R. Arshed SEE(AMI)	S. Khan SEE	T. Fernbee Manager Planning
3	6-18-19	Neutral connections	C. Renteria/R. Arshed EE(AMI) SEE(AMI)	S. Khan SEE	T. Fernbee Manager Planning

NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS	METER SOCKET FOR INSTRUMENT TRANSFORMER INSTALLATIONS 3PHASE, 4WIRES, 13 TERMINALS	DATE: 6-24-04 Page 2 of 2 C50-6310

INSTRUMENT TRANSFORMER CABINET



CT cabinet Dimensions (Minimum)

Service Amps Rating	Voltage	A (HEIGHT	B (WIDTH)	C (DEPTH)	D	E	F
400	208/120	106.68(42)	60.96(24)	27.94(11)	12.70(5)	30.48(12)	7.62(3)
400	480/277	106.68(42)	60.96(24)	27.94(11)	12.70(5)	30.48(12)	12.7(5)
600	208/120	106.68(42)	66.04(26)	27.94(11)	15.24(6)	30.48(12)	8.89(3.5)
600	480/277	106.68(42)	66.04(26)	27.94(11)	15.24(6)	30.48(12)	8.89(3.5)
800	208/120	106.68(42)	66.04(26)	27.94(11)	15.24(6)	30.48(12)	8.89(3.5)
800	480/277	106.68(42)	66.04(26)	27.94(11)	15.24(6)	30.48(12)	8.89(3.5)

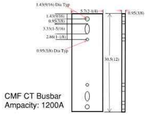
All accessible compartments with service entrance cables must be lockable. Enclosure must be locked by DPU-E, not by the customer.
Cabinets must be labelled with Line side (top) and Load side (bottom).
One inch continuous conduit (no condulets) run from cabinet to the meter socket within 100ft.
Neutral connection required (indicate location on catalog cut sheet).
No splicing of service entrance conductor allowed in cabinet

Service Size		CT Specifications				Busbar Specifications					
Amps	Phases	CT Type	CT Catalog #	CT ratio	CT Qty	Busbar Catalog Number	Manufact	Material	Length	Thick	Width	Total Busbar
400	1	CBT-H	7882A78G04	200:5	2	BB Included	ABB	Cu	BB Included			
400	3	CBT-H	7882A78G04	200:5	3	BB Included	ABB	Cu	BB Included			
600	1	CBT-H	7882A78G10	400:5	2	BB Included	ABB	Cu	BB Included			
600	3	CBT-H	7882A78G10	400:5	3	BB Included	ABB	Cu	BB Included			
800	3	CMF	7525A85G02	400:5	3	9628A95G20	ABB	Cu	12"	3/8"	2.25"	3

All mounting and dimensions must be pre-approved. Dimensions are in cm(inches).
Fault current rating must meet NEC 110.10 requirement.

Bar Type CT

CMF Type CT.



CMF CT Busbar
Ampacity: 1200A

NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS	INSTRUMENT TRANSFORMER CABINET up to 800A	DATE: 10-24-04 Page 2 of 2 C50-6330

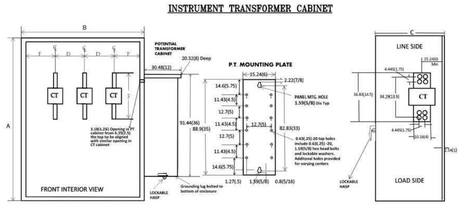
STANDARD REVISION HISTORY

Revision	Date	Description	Written	Checked	Approved
01	9/8/2014	Updated Dimensions	M. Diab	M. Diab	S. khan
02	1/23/2018	Updated CTs, PTs and Bus Bars data	R. Arshed SEE	S. Khan SEE	T. Fernbee Manager Planning
03	10/15/2018	Corrected/Formated Dimensions	S. khan SEE	L. Slate SEE	T. Fernbee Manager Planning
04	01/05/2019	Updated PT Mounting Plate and Enclosure and dimensions	S. Khan SEE	L. Slate SEE	T. Fernbee Manager Planning

STANDARD REVISION HISTORY

Revision	Date	Description	Written	Checked	Approved
01	9/8/2014	Updated Dimensions	M. Diab	M. Diab	S. khan
02	1/23/2018	Updated CTs, PTs and Bus Bars data	R. Arshed SEE	S. Khan SEE	T. Fernbee Manager Planning
03	10/15/2018	Corrected/Formated Dimensions	S. khan SEE	L. Slate SEE	T. Fernbee Manager Planning
04	01/05/2019	Updated PT Mounting Plate and Enclosure and dimensions	S. Khan SEE	L. Slate SEE	T. Fernbee Manager Planning

INSTRUMENT TRANSFORMER CABINET



THREE PHASE CURRENT TRANSFORMER CABINET	A (HEIGHT	B (WIDTH)	C (DEPTH)	D	E	F
1000-1200 Amps	167.64(66)	91.44(36)	38.1(15)*	22.86(9)	36.83(14.5)	12.7(5)
1600 Amps	167.64(66)	91.44(36)	38.1(15)*	22.86(9)	36.83(14.5)	12.7(5)
2000 Amps	167.64(66)	101.60(40)	38.1(15)*	22.86(9)	36.83(14.5)	12.7(5)
2500 Amps	167.64(66)	101.60(40)	53.34(21)	22.86(9)	36.83(14.5)	12.7(5)
3000 Amps and above	167.64(66)	101.60(40)	53.34(21)	25.4(10)	36.83(14.5)	13.97(5.5)

* Depth will be 21 inches without side gutters
All accessible compartments with service entrance cables must be lockable. Enclosure must be locked by DPU-E, not by the customer.
Cabinets must be labelled with Line side (top) and Load side (bottom).
One inch continuous conduit (no condulets) run from cabinet to the meter socket within 100ft.
Neutral connection required (indicate location on catalog cut sheet).

Service Size		CT Specifications				Busbar Specifications					
Amps	Phase	CT Type	CT Catalog #	CT ratio	CT Qty	Busbar Catalog #	Manufacturer	Material	Length	Thick	Width	Total Busbar
1000 Thru 1600	3	CLC	7526A85G01	800:5	3	9628A05G2(3-6)	ABB	Cu	14.5"	1/4"	4"	3
2000	3	CLC	7526A85G03	1200:5	3	9628A05G2(3-6)	ABB	Cu	14.5"	1/4"	4"	6
2500 Thru 4000	3	CLC	7526A85G04	1500:5	3	9628A05G2(3-6)	ABB	Cu	14.5"	1/4"	4"	9

Set of Bus bars on each phase must be equidistant with a minimum distance equivalent to the thickness of a single busbar.
Installed bus bars must be of identical catalog number (manufacturer, conductor, length, and cross section size).
CLC type bus bar rating is 1950A. For parallel bus bar arrangements, the AMPACITY will change as follows:
•Two bars will be 3200A
•Three bars will be 4200A
•Four bars will be 5100A
All mounting and dimensions must be pre-approved. Dimensions are in cm(inches).
Fault current rating must meet NEC 110.10 requirement.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT ELECTRIC STANDARDS	INSTRUMENT TRANSFORMER CABINET OVER 800	DATE: 10-24-04 Page 1 C50-6335

REV.	DATE	DESCRIPTION
A	06/13/2023	ISSUED FOR SITE SKETCH
B	07/27/2023	ISSUED FOR 90% REVIEW
C	08/21/2023	REVISED FOR 90% REVIEW
D	09/29/2023	ISSUED FOR SIGN & SEAL
0	11/27/2023	REVISED S&S PER COMMENTS
1	01/12/2024	ADDED PHOTOMETRIC PLAN
2	03/07/2024	ADDED LANDSCAPE PLAN

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

FOR REFERENCE ONLY

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

UTILITY CUT SHEETS

PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

E-302
PLANNING#: 23-23-100000100
BUILDING#: 24-340
2

Drawing Name: O:\2023\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 1:21 AM - shoneycutt

JANUARY 1, 2007

BULLETIN

CT-07A

ERICKSON ELECTRICAL EQUIPMENT CO.

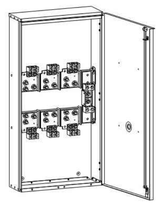
WALL MOUNTED

METERING TRANSFORMER CABINETS

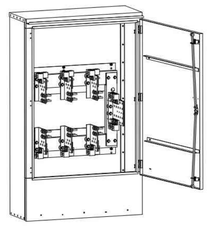
APPROVED 400 - 2000 AMP

600 VOLT MAXIMUM

FOR INDOOR OR OUTDOOR USE (TYPE 3R CONSTRUCTION)



400 AMP. Thru 800 AMP.



1200 AMP. Thru 2000 AMP.

LISTED

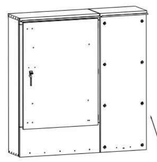
FILE NO. E62784

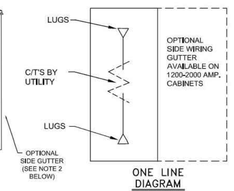
www.ericksonelectric.com

ERICKSON ELECTRICAL EQUIPMENT CO.
475 BONNIE LANE • ELK GROVE VILLAGE, IL 60007
TELEPHONE: (847) 640-7701 / 1-800-952-7225
FAX: (847) 640-0565

GENERIC CATALOG NUMBERS

AMPACITY	1Ø 3W	3Ø 3W	3Ø 4W	NO.OF LUGS PER PHASE #4-600 MCM	UNPROTECTED FAULT CURRENT RATING	ENCLOSURE SIZE WIDTH	HEIGHT	DEPTH	SHIPPING WEIGHTS
400	1182-1	1182-1	1182-2	1	42,000 Amp	20"	45½"	7¼"	65#
600-800	283-1	283-1	283-2	2	65,000 Amp	24"	48"	8"	3W-85# 4W-90#
1200	CT121	CT123	CT124	3	85,000 Amp	36"	64"	15"	3W-240# 4W-260#
1600	CT161	CT163	CT164	4	85,000 Amp	36"	64"	15"	3W-260# 4W-280#
2000	CT201	CT203	CT204	5	85,000 Amp	40"	64"	15"	3W-280# 4W-300#





ONE LINE DIAGRAM

1. ENCLOSURES ARE ALUMINUM TYPE 3R FOR INDOOR OR OUTDOOR USE.
2. CABINETS RATED 1200 AND ABOVE MAY BE ORDERED WITH AN OPTIONAL SIDE WIRING GUTTER ON THE LEFT OR RIGHT. THE SIDE GUTTER ALLOWS CONDUCTORS TO ENTER AND EXIT THE BOTTOM. ADD SUFFIX -SG TO CATALOG NUMBER AND SPECIFY LOCATION AT TIME OF ORDER.
3. THESE CABINETS CAN BE PROVIDED WITH CURRENT TRANSFORMER LINKS & SUPPORTS WHEN WINDOW TYPE CURRENT TRANSFORMERS ARE PROVIDED BY THE UTILITY.
4. AVAILABLE WITH OPTIONAL ENCLOSURE FOR MOUNTING UTILITY-PROVIDED POTENTIAL TRANSFORMERS WHEN REQUIRED BY THE UTILITY FOR SERVICE VOLTAGES ABOVE 240V.

ERICKSON ELECTRICAL EQUIPMENT CO.
475 BONNIE LANE • ELK GROVE VILLAGE, IL 60007
TELEPHONE: (847) 640-7701 / 1-800-952-7225
FAX: (847) 640-0565

JANUARY 1, 2007

BULLETIN

CT-07E

ERICKSON ELECTRICAL EQUIPMENT CO.

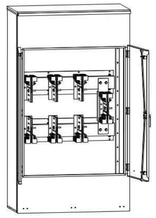
WALL MOUNTED

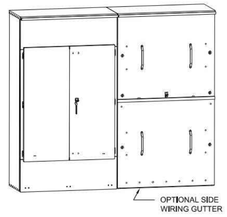
METERING TRANSFORMER CABINETS

APPROVED 2500 - 4000 AMP

600 VOLT MAXIMUM

FOR INDOOR OR OUTDOOR USE (TYPE 3R CONSTRUCTION)





LISTED

FILE NO. E62784

www.ericksonelectric.com

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475 BONNIE LANE • ELK GROVE VILLAGE, IL 60007
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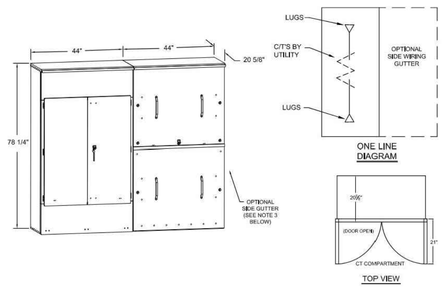
FAX: (847) 640-0565

METERING TRANSFORMER CABINET
600 V MAX CATALOG NUMBERS

AMPACITY	3Ø 4W	LUGS PER PHASE 300-600 KCM	UNPROTECTED FAULT CURRENT RATING
2500	CT254	7	85,000 Amp
3000	CT304	8	85,000 Amp
4000	CT404	10	85,000 Amp



1. ENCLOSURES ARE ALUMINUM TYPE 3R FOR INDOOR OR OUTDOOR USE.
2. METERING TRANSFORMER CABINETS ARE EQUIPPED WITH REMOVABLE BUS SECTIONS WITH MOUNTING SUPPORTS TO ACCOMODATE WINDOW TYPE CURRENT TRANSFORMERS.
3. METERING TRANSFORMER CABINETS MAY BE ORDERED WITH AN OPTIONAL SIDE WIRING GUTTER ON THE LEFT OR RIGHT. THE SIDE GUTTER ALLOWS CONDUCTORS TO ENTER AND EXIT THE BOTTOM. ADD SUFFIX -SG TO CATALOG NUMBER AND SPECIFY LOCATION AT TIME OF ORDER.

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FOR REFERENCE ONLY

TESLA SUPERCHARGER STATION
2724 SHOWPLACE DRIVE
NAPERVILLE, IL 60564

UTILITY CUT SHEETS

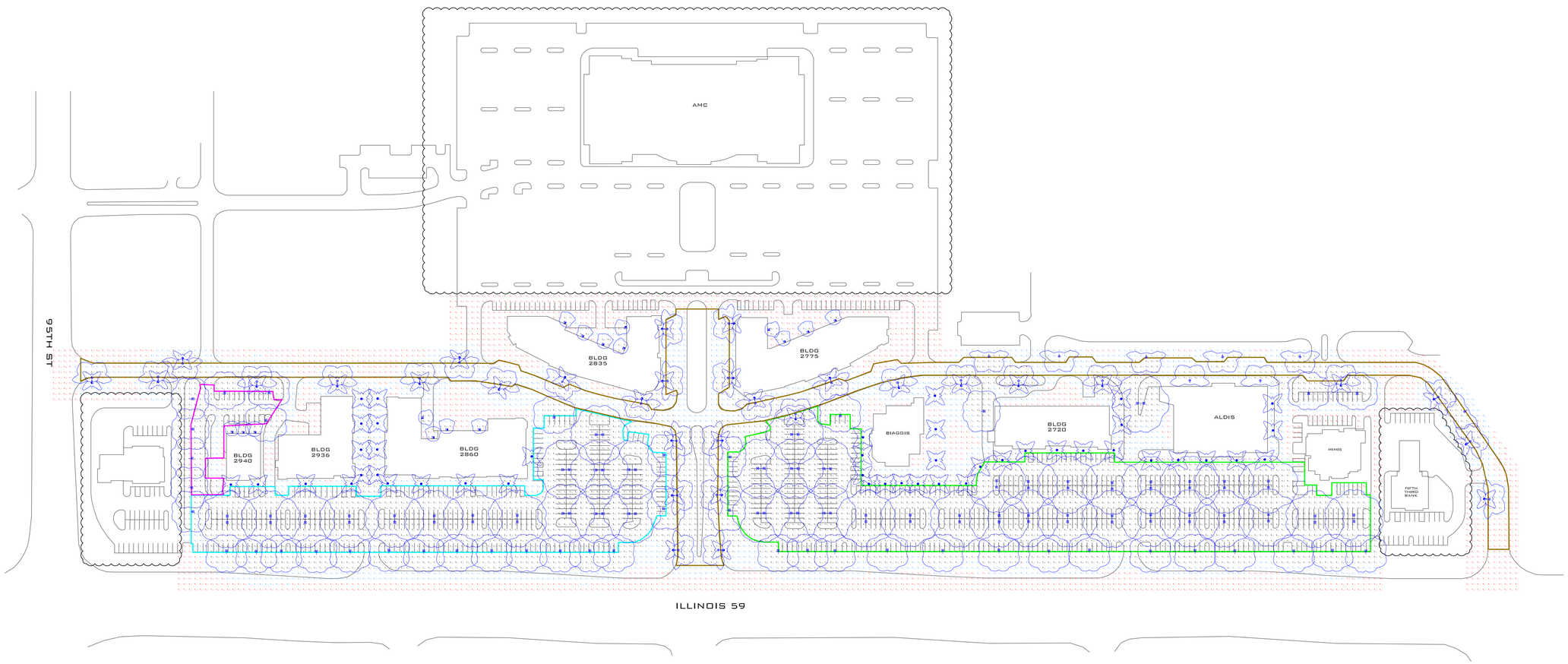
PROJECT MANAGER	DESIGNER
IM	NSE

JOB NO.
2023141.99

E-303
PLANNING#: 23-23-100000100
BUILDING#: 24-340
1

Drawing Name: O:\2022\2023141\99 - TRT 4007413 - Naperville, IL\dwg\2023141.99 - Naperville, IL - CD100_rev2.dwg
April 12, 2024 11:21 AM - stoneycutt

REVISIONS		
Rev #	Date	BY:



Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions.

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions.

EXISTING CONDITIONS

Calculation Summary							
Label	Avg	Max	Min	Avg/Min	Max/Min	PtSpcLr	PtSpcTb
BIAGGIS - ALDI PARKING SUMMARY	4.6	8.4	0.6	7.6	14.0	10	10
BLDG 2860-2940 PARKING	4.2	7.3	0.9	4.6	8.1	10	10
BLDG 2940 REAR OF BLDG	2.7	4.5	0.8	3.4	5.6	10	10
ROADWAY	2.2	6.2	0.2	11.0	31.0	10	10

Luminaire Schedule

W;S14671 NAPERVILLE CROSSING NAPERVILLE, IL PM: ROBBY PLEASE EMAIL ROBBY AT RRUDASILL@WLSLIGHTING.COM FOR PRICING.

Symbol	Qty	Label	Lumens	LLF	Description	Lum. Watts
	44	X1	40000	0.500	GARDCO-EH19-VS-400-MH 25' MOUNTING HEIGHT	455
	44	X2	40000	0.500	GARDCO-EH19-VS-400-MH 25' MOUNTING HEIGHT	455
	39	X3	36000	0.500	LUMEC--RN20--400-MH-THB3-GL 25' MOUNTING HEIGHT	455
	31	X4	12500	0.500	LUMEC--L80-PCCS-150-MH-SE5 12' MOUNTING HEIGHT	188
	44	X5	12500	0.500	LUMEC--L80-PCCS-150-MH-SE5 12' MOUNTING HEIGHT	188
	16	X6	12800	0.500	LITH-TWR1-175-MH ASST MOUNTING HEIGHT	208

WLS LIGHTING
a WLS company
1919 WINDSOR PLACE
FORT WORTH, TX 76110
WWW.WLSLIGHTING.COM
800-633-8711

SHEET 1 OF 2

BY: TO

PM: ROBBY

SCALE: 1"=100'

DATE - 2/27/19

WLS- 14671X

NAPERVILLE CROSSING
NAPERVILLE, IL