

City of Madison

Conditional Use

Location 89 East Towne Mall

Project Name Tesla Supercharger Station

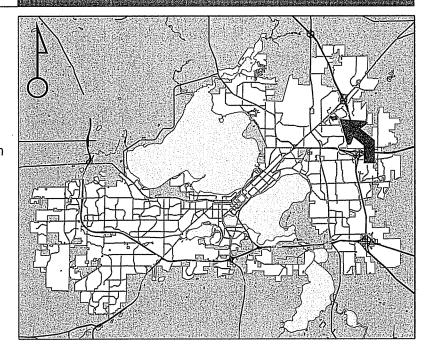
Applicant

James J. Gudin – Madison Joint Venture/ Carmen Klecker – Black & Veatch Corporation

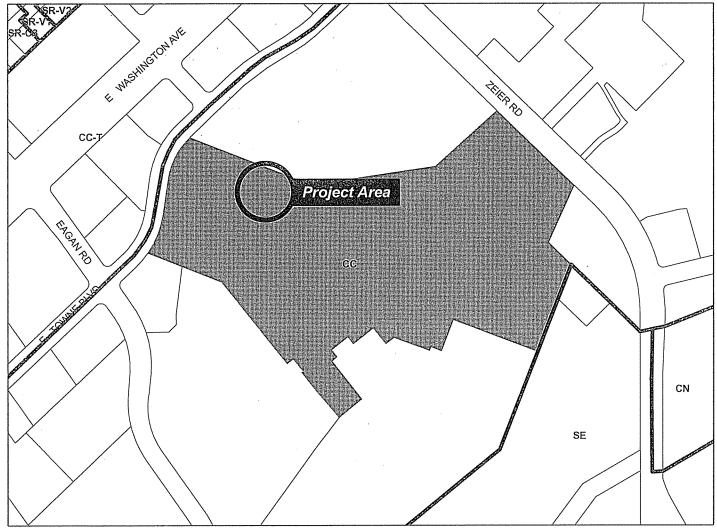
Existing Use Surface parking lot at East Towne Mall

Proposed Use Construct electric vehicle charging station in East Towne Mall parking lot

Public Hearing Date Plan Commission 30 September 2013



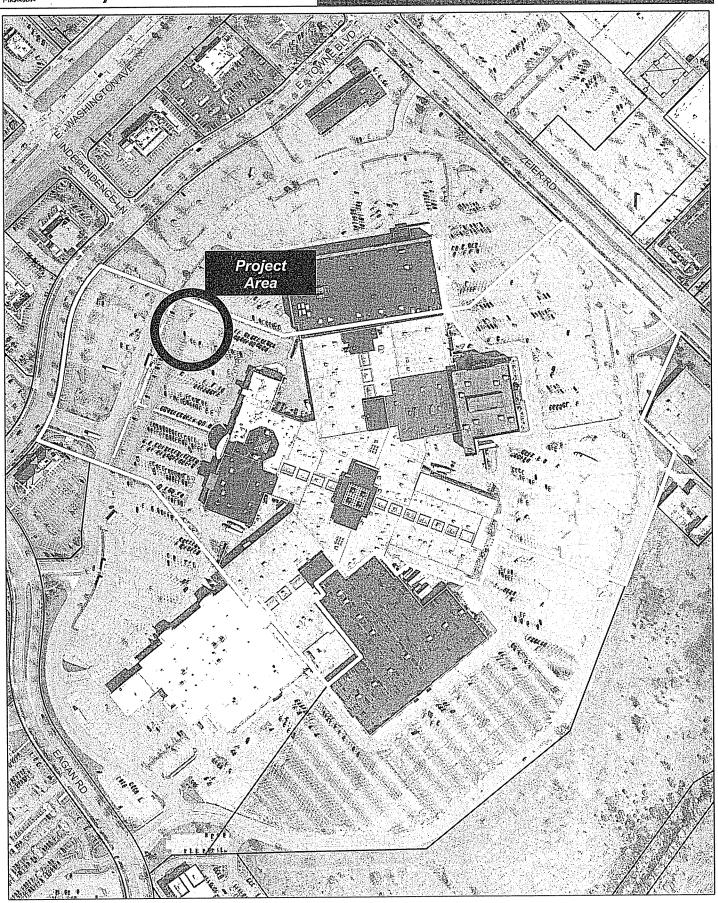
For Questions Contact: Kevin Firchow at: 267-1150 or kfirchow@cityofmadison.com or City Planning at 266-4635



Scale: 1" = 400'

City of Madison, Planning Division: RPJ: Date: 26 September 2013





Date of Aerial Photography: Spring 2010



AND USE APPLICATION

CITY OF MADISON

- All Land Use Applications should be filed with the Zoning Administrator at the above address.
- The following information is required for all applications for Commission review except subdivisions or land divisions, w should be filed using the Subdivision Application.
- This form may also be completed online at: www.citvofmadison.com/developmentcenter/landdevelop

Madison _p	CITI OI MINUSON
215 Martin Luther King Jr. Blvd; Room LL-100 PO Box 2985; Madison, Wisconsin 53701-2985 Phone: 608.266.4635 Facsimile: 608.267.8739 • All Land Use Applications should be filed with the Zoning Administrator at the above address.	FOR OFFICE USE ONLY: Amt. Paid 600 Receipt No. 146 23 Data Received 844 2013 Received By PA Parcel No. 0810 -2730 - 0962 Aldermanic District 17 - Clusius
 The following information is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed using the <u>Subdivision Application</u>. This form may also be appreciated out to the form may also be appreciated out. 	Zoning District Special Requirements Review Required By:
 This form may also be completed online at: <u>www.citvofmadison.com/developmentcenter/landdevelopment</u> 	Urban Design Commission Common Council Form Effective: Pebruary 21, 2013
Project Address: 89 East Towne Mall, Madison, WI 53704 Project Title (if any): Tesla Supercharger Station WI001 Mad	
Review of Alteration to Planned Development (By Plan Com Conditional Use, or Major Alteration to an Approved Conditional Use)	to Wajor Amendment to Approved PD-SIP Zoning mission)
Demolition Permit Other Requests:	
3. Applicant, Agent & Property Owner Information: Applicant Name: Drew Bennett Compan Street Address: 3500 Deer Creek Rd.	y: Tesla Motors, Inc. c/o Black & Veatch
Telephone: (650) 796-8530 F	Salo Alto, CA zip: 94304 Email: drbennett@teslamotors.com
	v: Black & Veatch Corporation
Telephone A13 458-6776	ingham Farms, MI zip: 48025 mail: klecklerc@bv.com
Property Owner (If not applicant): Madison Joint Venture - James J. Gr Street Address: 3418 Pelhan Place City/State: A	udin Avon, OH zip: 44011
4. Project Information:	
Provide a brief description of the project and all proposed uses of the	sire: Install supercharging station for planting

Provide a brief description of the project and all proposed uses of the site: Install supercharging station for electric vehicles in the parking lot of the East Towne Mall. Upon receipt of zoning approval Completion Development Schedule: Commencement 3 weeks

5. Required Submittal Information

All Land Use applications are required to include the following:

Project Plans including:*

- Site Plans (fully dimensioned plans depicting project details including all lot lines and property setbacks to buildings; demolished/proposed/altered buildings; parking stalls, driveways, sidewalks, location of existing/proposed signage; HVAC/Utility location and screening details; useable open space; and other physical improvements on a property)
- Grading and Utility Plans (existing and proposed)
- Landscape Plan (including planting schedule depicting species name and planting size)
- Building Elevation Drawings (fully dimensioned drawings for all building sides, labeling primary exterior materials)
- Floor Plans (fully dimensioned plans including interior wall and room location)

Provide collated project plan sets as follows:

- Seven (7) copies of a full-sized plan set drawn to a scale of 1 inch = 20 feet (folded or rolled and stapled)
- Twenty Five (25) copies of the plan set reduced to fit onto 11 X 17-inch paper (folded and stapled)
- One (1) copy of the plan set reduced to fit onto 8 ½ X 11-inch paper
- * For projects requiring review by the Urban Design Commission, provide Fourteen (14) additional 11x17 copies of the plan set. In addition to the above information, all plan sets should also include: 1) Colored elevation drawings with shadow lines and a list of exterior building materials/colors; 2) Existing/proposed lighting with photometric plan & fixture cutsheet; and 3) Contextual site plan information including photographs and layout of adjacent buildings and structures. The applicant shall bring samples of exterior building materials and color scheme to the Urban Design Commission meeting.

а 4 Ф	Project Team Existing Conditions Project Schedule Proposed Uses (and ft ² of each) Hours of Operation	 Building Square Footage Number of Dwelling Units Auto and Bike Parking Stalls Lot Coverage & Usable Open Space Calculations 	 Public Subsidy Requested
Ad	en concentration; All applicants are	rentificed to rubmit contain as all re-	flake checks payable to: City Treosurer. submitted in hard copy with their application as their application materials, or by e-mail to
☐ At	iditional information may be requir		to the <u>Supplemental Submittal Requirements.</u>
6. An	plicant Declarations		
河 Pro	plicant Declarations e-application Notification: The Zo ighborhood and business associations ferperson, neighborhood associations	ining Code requires that the array	ant notify the district alder and any nearby
Property Pro	e-application Notification: The Zo Ighborhood and business associa Ierperson, neighborhood association	oning Code requires that the applications in writing no later than 30 con(s), and business association(s) An	ant notify the <u>district alder</u> and any nearby days prior to FILING this request. List the ND the dates you sent the notices:
pro ne ald — → > > > > > > > > > > > > > > > > > >	e-application Notification: The Zo ighborhood and business association for the Zo ighborhood association is a waiver has been granted to the application Meeting with Staff: poosed development and review proposed developmen	oning Code requires that the applications in writing no later than 30 con(s), and business association(s) And the requirement, please attach any confirmation of this properties.	ant notify the <u>district alder</u> and any nearby days prior to <u>FILING</u> this request. List the ND the dates you sent the notices: orrespondence to this effect to this form.
pro ne ald — → > > > > > > > > > > > > > > > > > >	e-application Notification: The Zo ighborhood and business associated in the Ighborhood associated in the Ighborhood associated in the Ighborhood associated in the Ighborhood in Ighborhood associated in Ighborhood associated in Ighborhood i	oning Code requires that the applications in writing no later than 30 con(s), and business association(s) And the requirement, please attach any confider to preparation of this application costs with Zoning and Planning Divine	ant notify the district alder and any nearby days prior to FILING this request. List the ND the dates you sent the notices: orrespondence to this effect to this form.

City of Madison **Letter of Intent**

Project Team: Tesla Motors, Inc. c/o Black & Veatch Corporation.

Existing Conditions: The proposed site is in a mall parking lot. Project will utilize six (6) existing parking spaces and area for equipment enclosure.

Project Schedule: Construction will begin upon receipt of zoning approval and building and electrical permits. The construction will take approximately three (3) weeks.

Proposed Uses (and ft² of each): Supercharging station.

Transformer = 64 Sq ft

Equipment Enclosure = 280 Sq ft

Chargers = 30 Sq ft

Signage Post = 6 Sq ft

Parking Spaces = 1100 Sq ft

The new curbing that contains the proposed transformer is a total of 295 Sq ft.

Hours of Operation: The proposed charging station will be available for motorists 24/7.

Building Square Footage: NA. There is no building, but the entire charging station will consist of approximately 1,444 square feet.

Number of Dwelling Units: None.

Auto and Bike Parking Stalls: The proposed charging station will utilize six (6) parking spaces, each equipped with one (1) charging post.

Lot Coverage & Usable Open Space Calculations: NA

Value of land: NA

Estimated Project Cost: \$100,000

Number of Construction & Full Time Equivalent Jobs Created: NA

Public Subsidy Requested: NA





SUPERCHARGING STATION

EAST TOWNE MALL

WI001_MADISON **89 EAST TOWNE MALL MADISON, WI 53704**

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TESLA APPROVAL SIGNATURE BLOCK

SITE ENGINEERING	DATE
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SITE INSTALLATION	DATE
SITE DEVELOPER	DATE

SITE INFORMATION	APPLICABLE CODES	PI	ROJECT DESCRIPTION	ZONING INFORMATION		DRAWING INDEX	
SITE ADDRESS: 99 EAST TOWNE MALL	ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:	INSTALL (6) TESLA	SUPERCHARGER CABINETS CHARGING STATIONS VITCHGEAR ASSEMBLY	PERMITTING JURISDICTION: CITY OF MADISON ZONING CLASS: C3L	SHEET NO:	SHEET TITLE	REV NO:
MADISON, WI 53704	IBC 2009 WISCONSIN MECHANICAL CODE	INSTALL (1) UTILITY			T-1	TITLE SHEET & PROJECT DATA	G
PROPERTY OWNER:	NEC 2008 WISCONSIN ELECTRICAL CODE	, ,		DO NOT SCALE DRAWINGS	GN-1	GENERAL NOTES 1	G
MADISON JOINT VENTURE	IBC 2009 WISCONSIN STRUCTURAL CODE			CONTRACTOR SHALL VERIFY ALL PLANS.	GN-2	GENERAL NOTES 2	G
JAMES J. GUDIN	IBC 2009 MFPA-1 WISCONSIN FIRE/LIFE SAFETY CODE			EXISTING DIMENSIONS & CONDITIONS ON THE	GN-3	GENERAL NOTES 3	G
8418 PELHAN PL AVON, OH 44011	WISCONSIN COMMERCIAL BUILDING CODE ADA STANDARDS (WISCONSIN COMMERCIAL BUILDING CODE)	FLO	OD HAZARD AREA NOTE	JOB SITE & SHALL IMMEDIATELY NOTIFY THE	A-1	OVERALL SITE PLAN	G
·	ADA STANDARDS (WISCONSIN COMMIENCIAE BUIEDING CODE)			ENGINEER IN WRITING OF ANY DISCREPANCIES	A-2	EXISTING SITE PLAN	G
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FESLA MOTORS, INC.	PREVAIL	AREA DETERMINED TO	BE OUTSIDE 500-YEAR FLOOD PLAIN.		A-4	PROPOSED SITE PLAN	G
8500 DEER CREEK RD PALO ALTO, CA 94304	AREA MAP		LOCAT	TION MAP	A-5	ENLARGED PROPOSED EQUIPMENT LAYOUT	G
650) 681-5000		المناسسة المناسسة ال			A-6	SITE ELEVATIONS	G
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COUNTY:	Mörrisonville	[] Jan []	MEADOW.	C BLY D	A-10	EQUIPMENT DETAILS	G
DANE	Sauk City Dane DeForest		MEADOW MALE CT	A TOWNER	A-11	FENCE DETAILS	G
•					E-1	ELECTRICAL PLAN	G
LATITUDE (NAD83):	Windsor	1 1 2 7	LUKKEN CT		E-2	ELECTRICAL DETAILS	G
43° 7' 36.33" N	Sun Prairie	Waterloo			E-3	ELECTRICAL DETAILS	G
43.12676°	Mazomanie Waunakee	Marshall			E-4	ELECTRICAL DETAILS	G
LONGITUDE (NAD83):	Black Earth 159	Warshall ()	[151]		E-5	ELECTRICAL DETAILS	G
89° 18' 25.09" W		Crawfish River		Le A	E-6	ELECTRICAL DETAILS	G
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	Madison -cottage Grov	LakeMills		Thurs	G-2	GROUNDING DETAILS	G
CONTACT ENGINEER:		Deerfield		EAST	S-1	STRUCTURAL DETAILS	G
RUSSELL POLLOM				- new	LS-1	LANDSCAPING PLAN	G
(913) 458-6274	Blue Mounds McFarland			ESPRING	PS-1	PROPERTY SURVEY	G
POLLOMRE@BV.COM	Cambri	oge (18))) \[\(\)			
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	DRIVING D	RECTIONS FROM DA	NE COUNTY REGIONAL AIRPORT			CALL BEFORE YOU DIG	

HEAD NORTH ON INTERNATIONAL LANE FOR 1.3 MILES, TURN LEFT ONTO ANDERSON STREET FOR 1.4 MILES, TURN RIGHT ONTO NORTH STOUGHTON ROAD FOR 0.3 MILES, TURN LEFT ONTO EAST

WASHINGTON AVENUE FOR 1.1 MILES, TURN RIGHT ONTO INDEPENDENCE LANE FOR 495 FEET, TURN RIGHT FOR 66 FEET, ARRIVE AT TOWNE MALL.





PROJECT NO: DRAWN BY: NMB MBG

BLACK & VEATCH

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

ı	\frown		
	G	08/12/13	ISSUED FOR 100% REVIEW
	F	07/31/13	REISSUED FOR 90% REVIEW
	E	07/29/13	REISSUED FOR 30% REVIEW
	D	07/29/13	REISSUED FOR 30% REVIEW
	С	07/19/13	REISSUED FOR 90% REVIEW
	В	06/28/13	ISSUED FOR 90% REVIEW
	Α	06/27/13	ISSUED FOR 30% REVIEW
	REV	DATE	DESCRIPTION



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

WI001 MADISON EAST TOWNE MALL **89 EAST TOWNE MALL** MADISON, WI 53704

TITLE SHEET & PROJECT DATA

T-1 12

UNDERGROUND SERVICE ALERT UTILITY NOTIFICATION CENTER OF WISCONSIN 811 OR 1-800-242-8511

3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

GENERAL CONSTRUCTION NOTES

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY GENERAL CONTRACTOR: OVERLAND CONTRACTING INC. (B&V) CONTRACTOR: (CONSTRUCTION)
 OWNER: TESI A
- 2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
- 3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, 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.
- 4. 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.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 7. 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.
- 8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE FINGINEER PRIOR TO PROCEEDING.
- 10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL HISBOCTION
- 11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 12. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 13. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- 14. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 15. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 16. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 17. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- 18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 19. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 20. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- 21. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER AND RF. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. 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.

GENERAL CONSTRUCTION NOTES CONT.

- 22. 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 RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- 23. 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
- 24. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL
- 25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- 26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL HURSDICTION
- 27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- 29. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 30. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION
- 31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- 32. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- 33. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 34. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 35. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 36. ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

ELECTRICAL NOTES

- 1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- 2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:

A. UL - UNDERWRITERS LABORATORIES

B. NEC - NATIONAL ELECTRICAL CODE

C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.

D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT

E. SBC - STANDARD BUILDING CODE

- F. NFPA NATIONAL FIRE CODES
- 4. DO 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.
- 5. EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING.
 CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- 7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.

ELECTRICAL NOTES CONT.

- 8. 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.
- 9. ALL CONDUCTORS SHALL BE COPPER WITH (THWN-2) INSULATION.
- 10. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- 12. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 14. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- 15. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION. WHICH MAY HAVE BEEN DAMAGED THEREIN.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- 17. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- 18. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS 'EXCAVATION, AND BACKFILLING.
- 19. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC. NEMA AND IEEE.
- 20. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 21. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- 22. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 23. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- 24. 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
- 25. ALL EXTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS OTHERWISE SPECIFIED. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS OTHERWISE SPECIFIED. ALL INTERIOR CONDUITS SHALL BE EMT UNLESS OTHERWISE SPECIFIED.
- 26. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. 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'.
- 27. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 28. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED. UNLESS SPECIFIED DIFFERENT ON DRAWINGS.
- 29. 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.
- 30. 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".
- 31. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- 32. ALL BOLTS SHALL BE STAINLESS STEEL.
- 33. ALL ELECTRICAL CIRCUITS INSTALLED SHALL UTILIZE (THWN-2) CONDUCTOR AND SHEATHING.



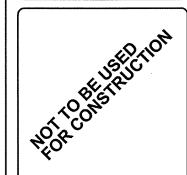
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GENERAL NOTES 1

GN-1

REINFORCED CONCRETE NOTES

- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS; CONTINUOUS INSPECTION IS NOT REQUIRED. SLUMP: 4" MIN./6" MAX.
 - AIR ENTRAINMENT: 4 1/2% 7% BY VOLUME
- REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60, MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
- 3. REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI-318 FOR MINIMUM CLEARANCES.
- 4. ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
- 5. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES EAHRENHEIT
- 6. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB
- 7. WELDED WIRE FABRIC: ASTM A185.
- 8. EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE
- 9. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL 2004, PUBLICATION SP-66" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318-08.
- 10. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

GENERAL SITE WORK AND DRAINAGE NOTES

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

- 1.1 REFERENCES:
- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).
- 1.2 INSPECTION AND TESTING:
- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO
- 1.3 SITE MAINTENANCE AND PROTECTION:
- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- C. KEEP SITE FREE OF ALL PONDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- 2. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

GENERAL SITE WORK AND DRAINAGE NOTES CONT.

PART 2 - PRODUCTS

- 2.1. SUITABLE BACKFILL: ASTM D2321 (CLASS I, II, III OR IVA) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.2. NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS III, IVA OR IVB)
 COARSE AGGREGATE. FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3
 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL
 UNSUITABLE FOR BACKFILL.
- 2.3. POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS IA, IB OR II) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKEII I
- 2.4. SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850-95. FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
- 2.5. GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
- 2.6. COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940.
- 2.7. UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

PART 3 - EXECUTION

3.1 GENERAL:

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ANY TIME.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE
 ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE
 EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA
 TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND
 OTHER DEBRIS THEREBY EXPOSED.
- 2. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER LINDES HAD BEING A MATERIAL S.
- 3. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- A. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- B. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- C. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL, ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- 1. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.

- 3. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- B. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

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

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 4 INCHES OF 1/2" 3/4" CRUSHED STONE ON TOP SOIL STABILIZER FABRIC.
- D. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

3.6 ASPHALT PAVING ROAD:

WISCONSIN STANDARD SPECIFICATION

PART 4 - WISCONSIN DEPARTMENT OF TRANSPORTATION PAVEMENT



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GENERAL NOTES 2

GN-2

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL SHAPES, PLATES, AND BARS SHALL CONFORM TO ASTM A36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B.
- 2. HIGH-STRNGTH BOLTS SHALL CONFORM TO ASTM A325: ONE HIGH-STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.
- 3. WELDING ELECTRODES SHALL COMPLY WITH AWS S1.1 USING A5.1 OR A5.5 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS SELECTED. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.
- 4. UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.
- 5. PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11.
- 6. FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION AND AS INDICATED ON THE APPROVED SHOP DRAWINGS.
- 7. ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- 8. SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND A;; TOP OF STEEL ELEVATIONS FOR APPROVAL.



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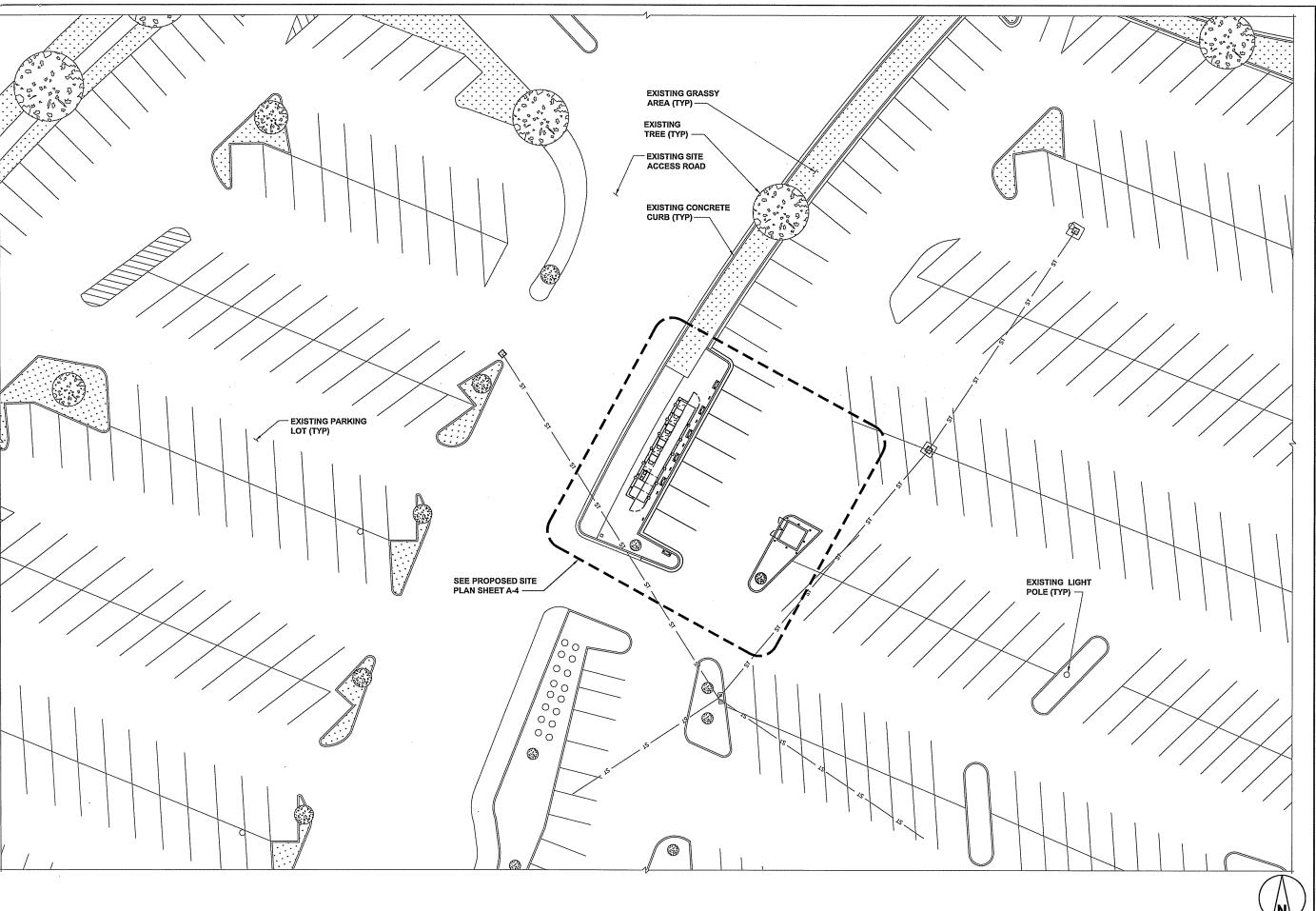
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GENERAL NOTES 3

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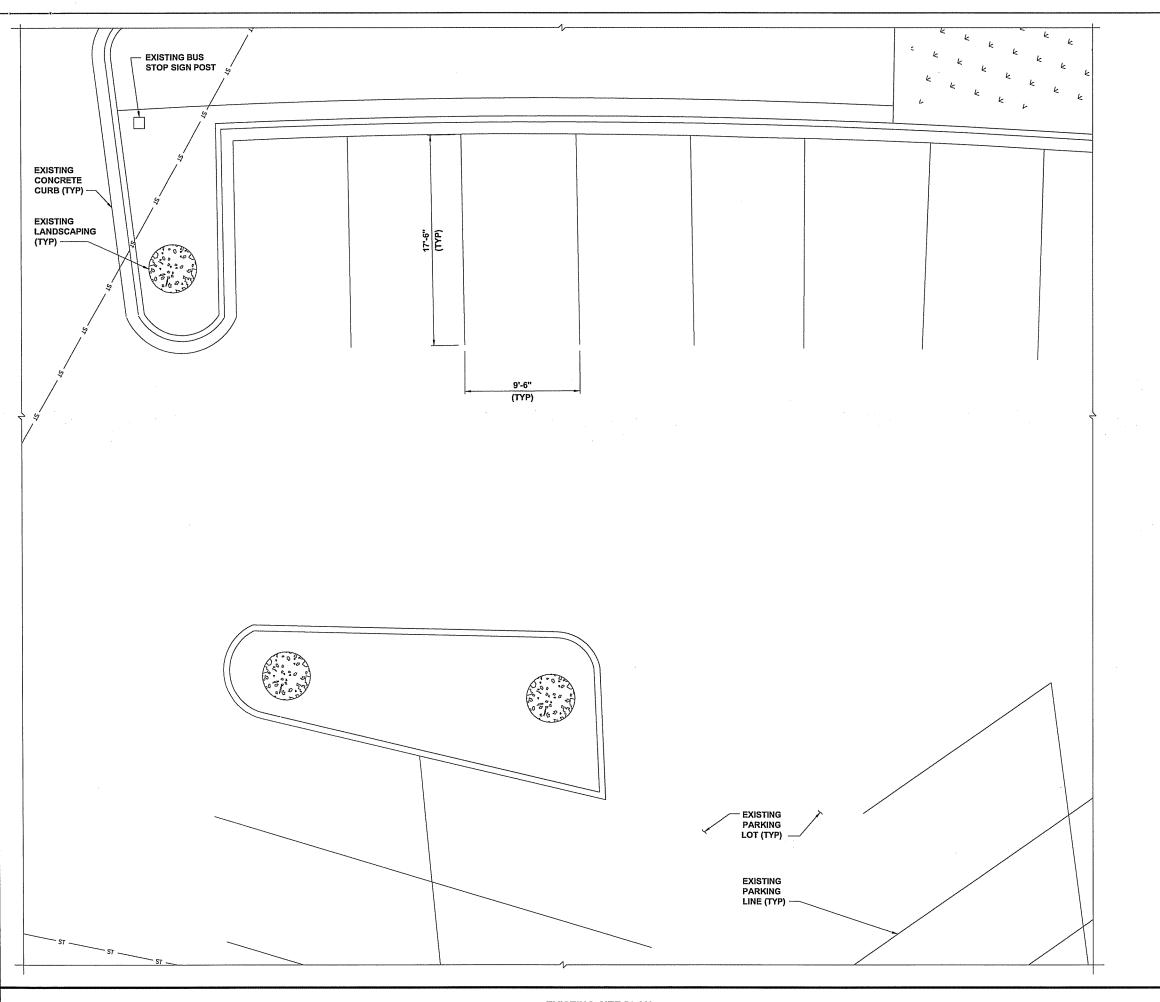
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A-1

OVERALL SITE PLAN



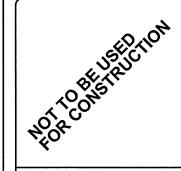




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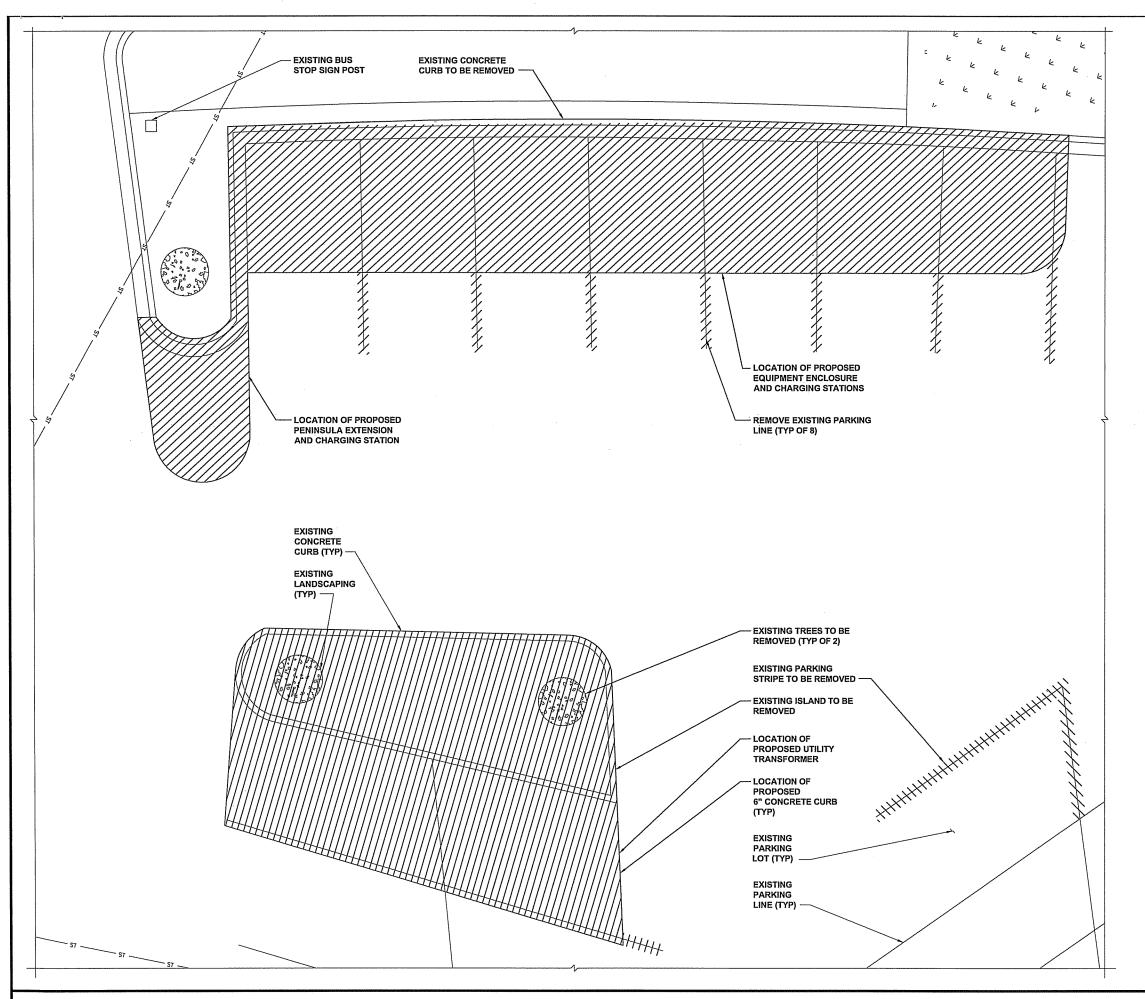
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REV	DATE	DESCRIPTION



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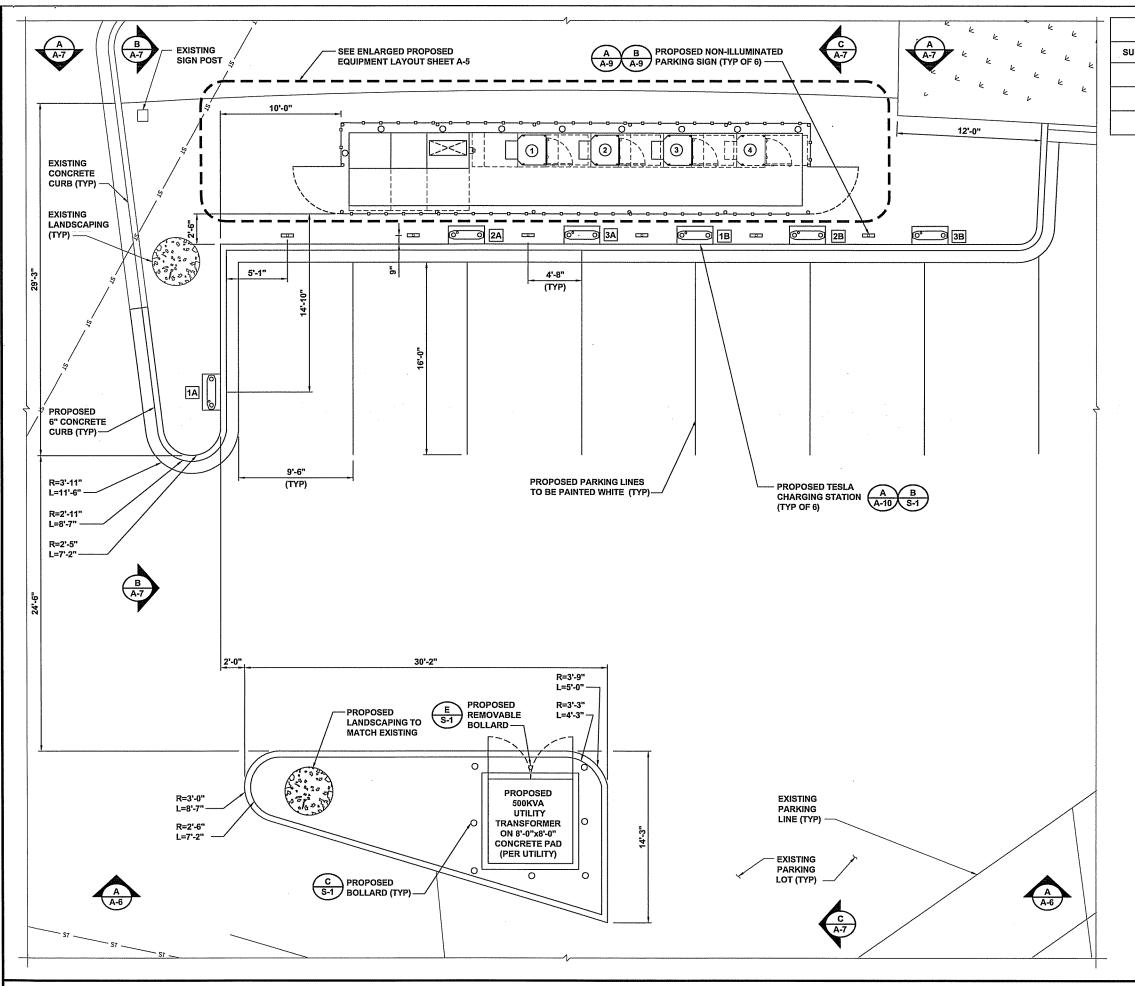
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DEMOLITION SITE PLAN

SHEET NUMBER

A-3

4' 2' 0 4' 8'



PROPOSED SITE PLAN

	CHARGING POST CIRCUIT SCHEDULE			
	SUPERCHARGER	DEDICATED FEED CHARGING POST	ENABLED FEED CHARGING POST	
	1	1A	1B	
	2	2A	2B	
-	3	ЗА	3B	



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



10950 GRANDVIEW DRIVE OVERLAND PARK, KS 66210 (913) 458-2000

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C	07/19/13	REISSUED FOR 90% REVIEW
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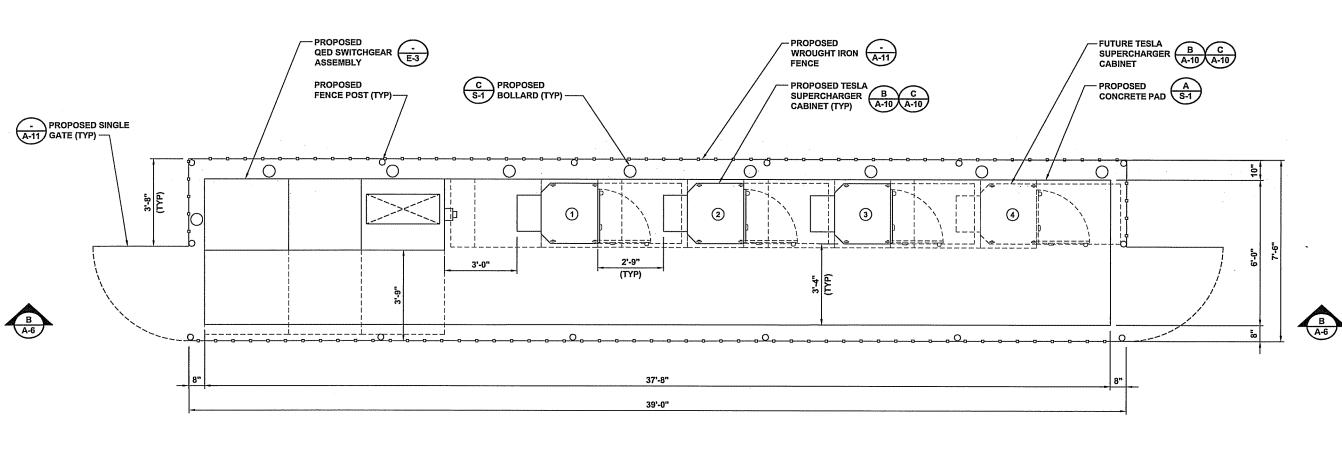
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PROPOSED SITE PLAN

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A-4

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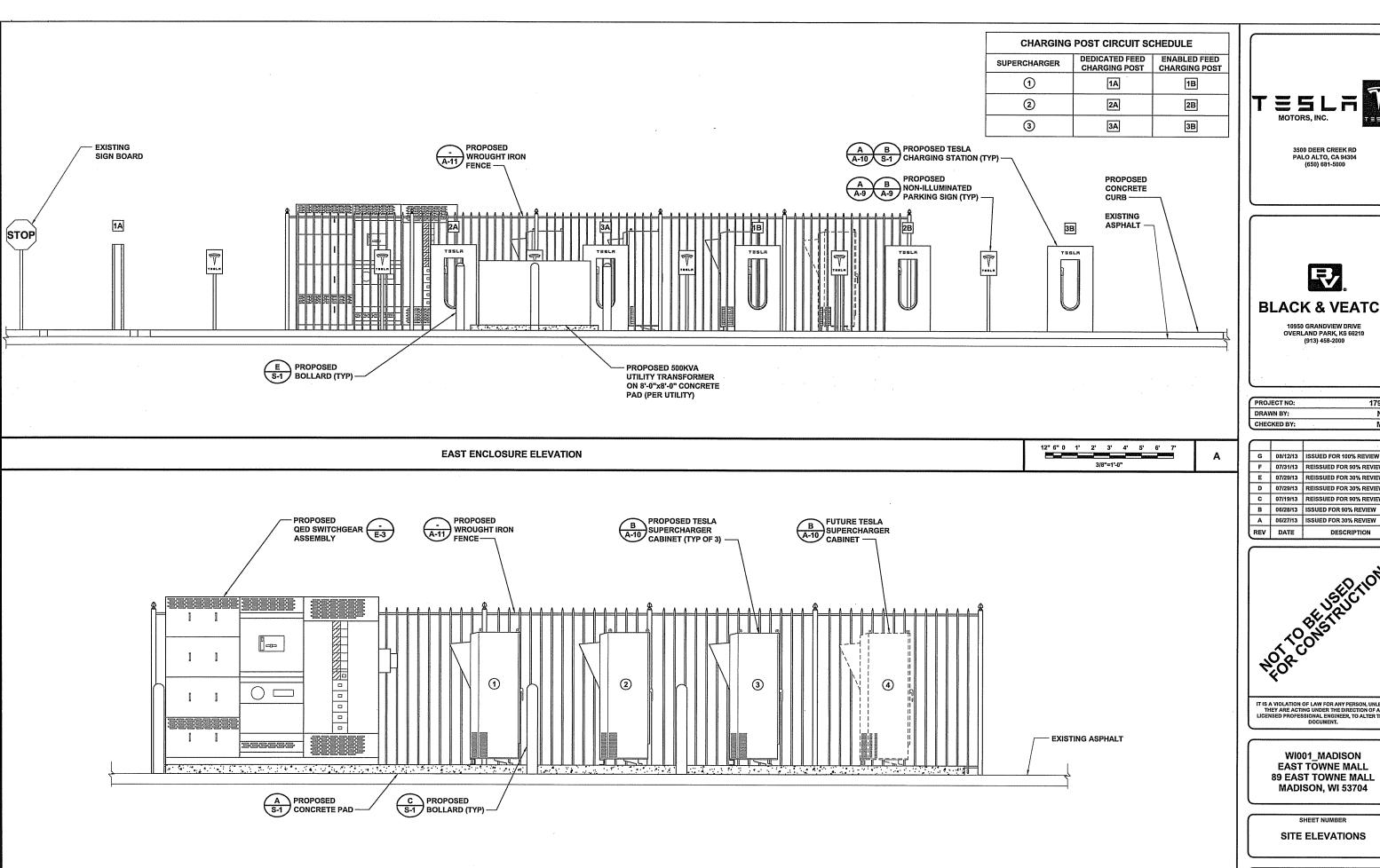
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ENLARGED PROPOSED EQUIPMENT LAYOUT

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A-5

12" 6" 0 1' 2' 3' 4' 5'



EAST ENCLOSURE ELEVATION





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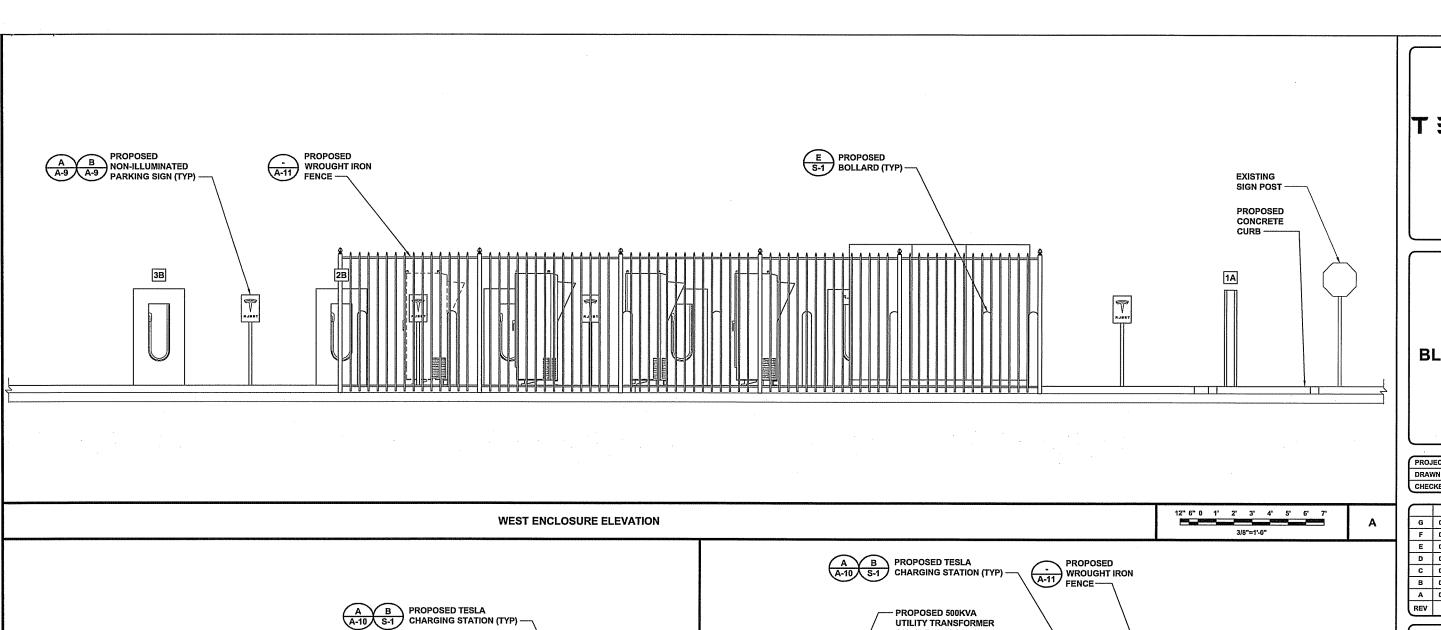
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SITE ELEVATIONS

SHEET NUMBER

A-6

1/2"=1'-0"



PROPOSED WROUGHT IRON A-11

SOUTH ENCLOSURE ELEVATION

PROPOSED CONCRETE CURB

EXISTING CONCRETE CURB

1A

1/2"=1'-0"



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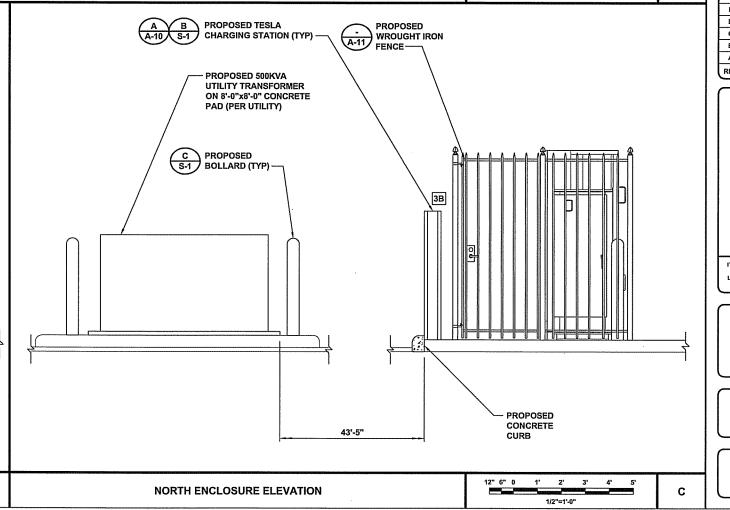
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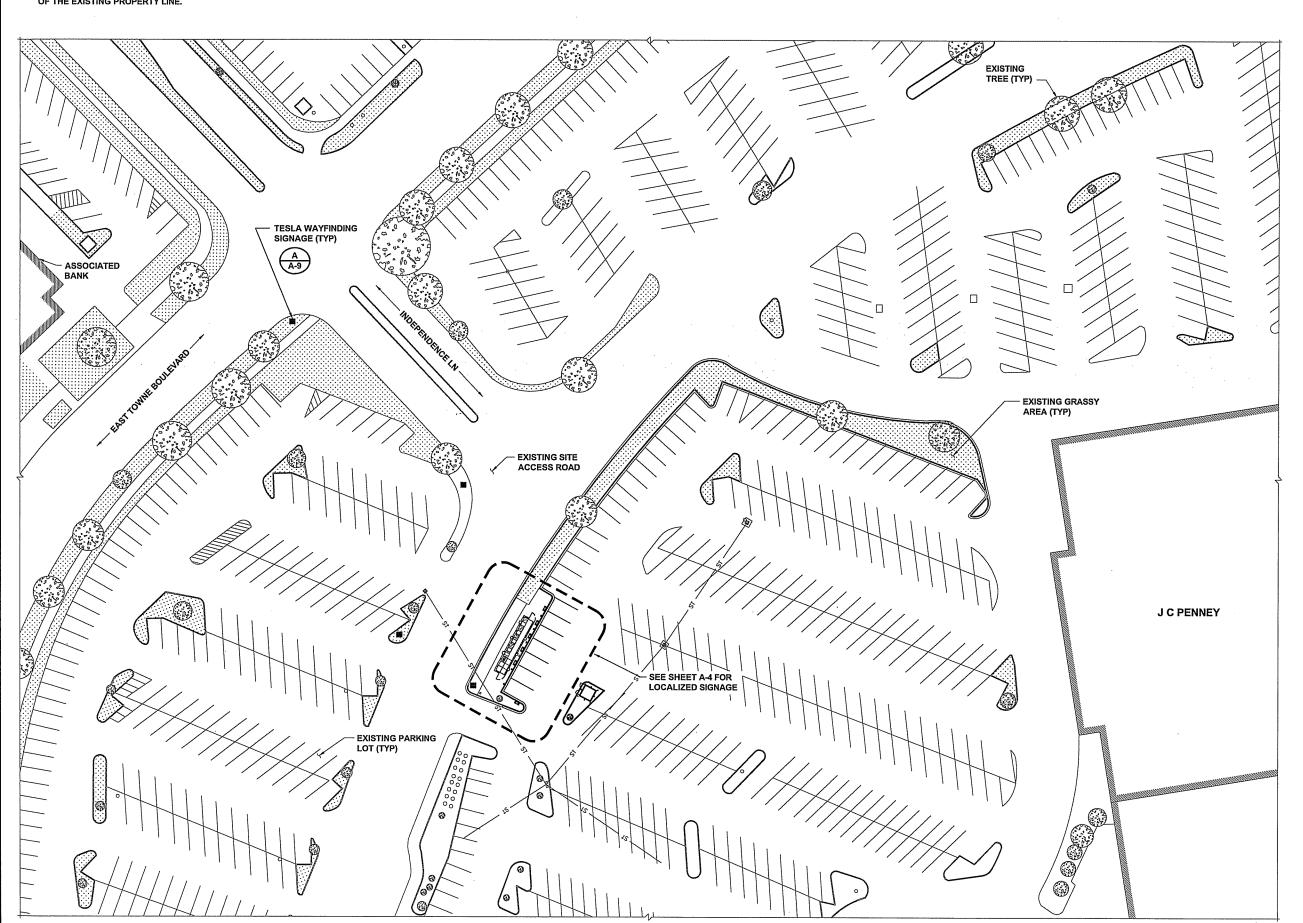
SITE ELEVATIONS

A-7





1. FINAL LOCATION OF THE TESLA NON-ILLUMINATED PARKING SIGNS WILL BE DETERMINED AFTER CONSULTATION WITH THE PROPERTY OWNER AND VERIFICATION OF THE EXISTING PROPERTY LINE.





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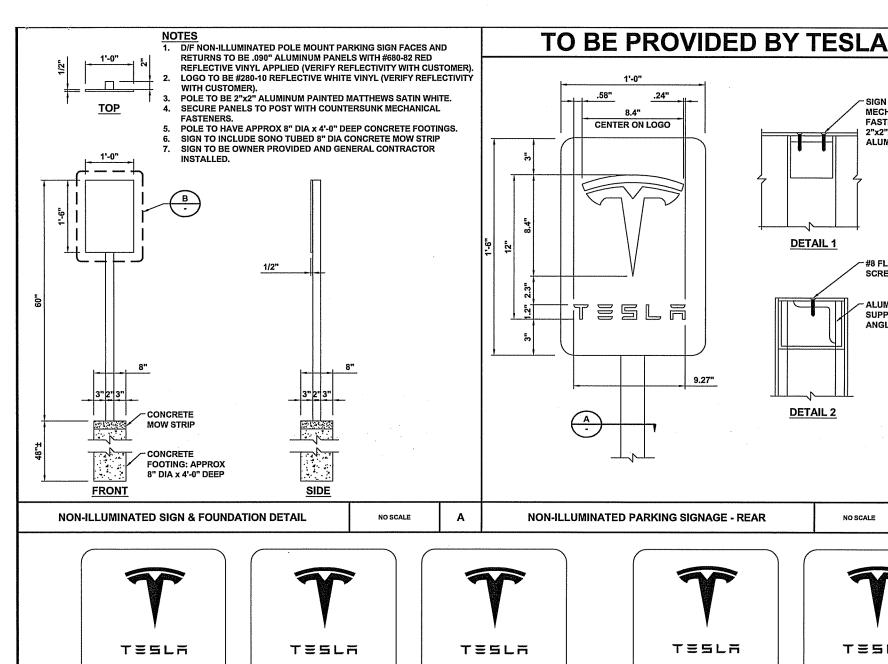
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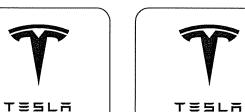
SIGNAGE SITE PLAN

SHEET NUMBER

A-8

30, 50, 10, 0 30, 60,





В

SIGN PLATE
MECHANICALLY

FASTENED TO

2"x2"x1/8"

ALUM TUBE

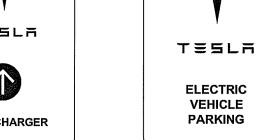
-#8 FLATHEAD

- ALUM

NO SCALE

SUPPORT **ANGLE**





DETAIL NOT USED



VEHICLE PARKING





179056

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SHEET NUMBER

SIGNAGE DETAILS

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A-9



15 MINUTE

PARKING

TESLA



20 MINUTE

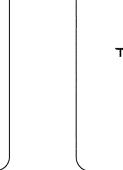
PARKING

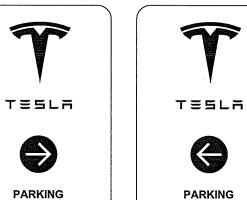




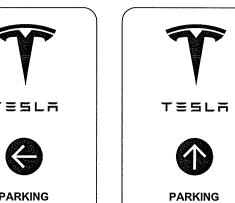
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PARKING



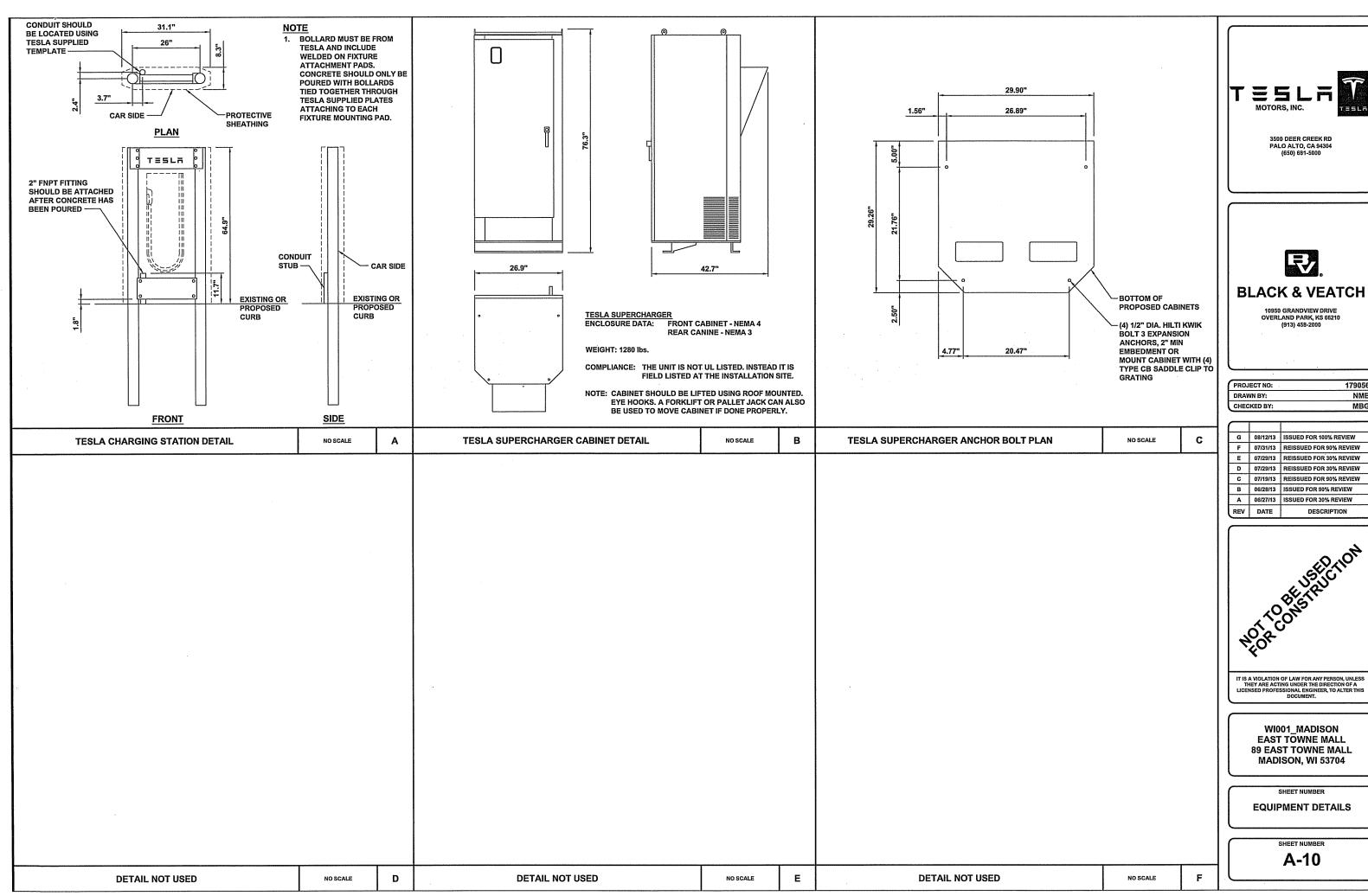


SUPERCHARGER







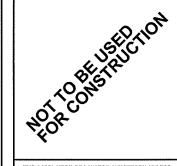






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EAST TOWNE MALL **89 EAST TOWNE MALL** MADISON, WI 53704

WROUGHT IRON FENCE NOTES:

1.1 SUBMITTALS

- A. SUBMIT PRODUCT DATA IN THE FORM OF MANUFACTURER'S TECHNICAL DATA,
 SPECIFICATIONS, AND INSTALLATION INSTRUCTIONS FOR FENCES AND GATES, INCLUDING
 HARDWARE AND GATE OPERATORS.
- B. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS SHOWING LOCATION OF FENCE AND GATES, INCLUDING EACH POST, DETAILS OF POST INSTALLATION, HARDWARE, AND ACCESSORIES. SHOW SIZES AND THICKNESS OF ALL MEMBERS, TYPES OF MATERIALS, METHODS OF CONNECTION AND ASSEMBLY, COMPLETE DIMENSIONS, CLEARANCES, ANCHORAGE, RELATIONSHIP TO SURROUNDING WORK, AND OTHER PERTINENT DETAILS OF FABRICATION AND INSTALLATION.
- C. SAMPLES FOR VERIFICATION: SUBMIT SAMPLES FOR EACH PROFILE AND PATTERN OF FABRICATED METAL AND FOR EACH TYPE OF METAL FINISH REQUIRED, PREPARED ON METAL OF SAME THICKNESS AND ALLOY INDICATED FOR THE WORK. INCLUDE SAMPLES OF THE FOLLOWING:
 - 1. POST CAP INCLUDING 12 INCH (300_MM) LONG SECTION OF POST.
 - 2. FULL-SIZE SAMPLE OF FENCE, 2 FEET WIDE BY FULL HEIGHT.
 - 3. GATE HARDWARE INCLUDING HINGES AND LATCH.
- D. QUALIFICATION DATA: SUBMIT QUALIFICATION DATA FOR FABRICATOR.

1.2 QUALITY ASSURANCE

- A. INSTALLER QUALIFICATIONS: ARRANGE FOR INSTALLATION OF ORNAMENTAL METAL FENCES SPECIFIED IN THIS SECTION BY THE SAME FIRM THAT FABRICATED IT.
- B. FABRICATOR QUALIFICATIONS: A FIRM EXPERIENCED IN PRODUCING ORNAMENTAL METAL FENCES AND GATES SIMILAR TO THAT INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS.
- C. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. AND MARKED FOR INTENDED USE.
- D. UL STANDARD: PROVIDE GATE OPERATORS THAT COMPLY WITH UL 325.
- E. WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1, "STRUCTURAL WELDING CODE-STEEL."

1.3 MANUFACTURER

A. PROVIDE ORNAMENTAL METAL FENCES AND GATES AS MANUFACTURED BY CASSIDY BROS. FORGE, INC., U.S. ROUTE 1, ROWLEY, MA 01969 (TELEPHONE 978-948-7303.) OR APPROVED FOULA

1.4 MATERIALS

- A. STEEL AND IRON: PROVIDE STEEL AND IRON IN FORM INDICATED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - 1. STEEL PLATE, SHAPES, AND BARS: ASTM A 36/A 36M.
- 2. STEEL SHEET: COMMERCIAL-QUALITY, COLD-ROLLED, STRETCHER-LEVELED, CARBON-STEEL SHEET COMPLYING WITH ASTM A 366/A 366M, CLASS I, MATTE FINISH.
- 3. GRAY-IRON CASTINGS: ASTM A 48, CLASS 30 (ASTM A 48M, CLASS 200).
- 4. MALLEABLE-IRON CASTINGS: ASTM A 47 (ASTM A 47M), GRADE AS RECOMMENDED BY FABRICATOR FOR TYPE OF USE INDICATED.
- DUCTILE IRON CASTINGS: ASTM A 536, GRADE AS RECOMMENDED BY FABRICATOR FOR TYPE OF USE INDICATED.
- B. STAINLESS STEEL:
 - 1. SHEET, STRIP, PLATE, AND FLAT BAR: ASTM A 666, TYPE 304.
- 2. BARS AND SHAPES: ASTM A 276, TYPE 304
- C. FASTENERS: TYPE 304 STAINLESS-STEEL. SELECT FASTENERS FOR TYPE, GRADE, AND CLASS REQUIRED.
- D. EXTERIOR EROSION-RESISTANT ANCHORING CEMENT: SUPER POR-ROK BY MINWAX CONSTRUCTION PRODUCTS, MONTVALE, NJ OR APPROVED EQUAL.
- E. PAINT:
 - PRIMER: INTERTUF (MODIFIED EPOXY, HIGH BUILD, HIGH SOLIDS) PRIMER BY INTERNATIONAL COATINGS LTD OR APPROVED EQUAL.
 - TOPCOAT: INTERTHANE 990HS (POLYURETHANE) BY INTERNATIONAL COATINGS LTD OR APPROVED EQUAL.

1.5 ORNAMENTAL METAL FENCES

- A. FENCE DESIGN: MONTVALE
- B. FENCE HEIGHT: 8 FEET
- C. PICKETS: SOLID 5/8 INCH SQUARE PICKETS WITH EITHER FORGED OR CAST IRON FINIALS. FINIAL: TYPE F_3, BULLET
- D. RAILS: STEEL CHANNELS, 3/4 INCH BY 1-1/2 INCH BY 1/8 INCH THICK.
- E. POSTS: SQUARE STEEL TUBES, 2 INCHES BY 2 INCHES BY 3/16 INCH THICK, WITH CAST IRON POST CAPS
 - 1. POST CAPS: TYPE C-4, BULLET

- F. SCROLLS: HAND FORGED WITH TAPERED ENDS FROM 1/4 INCH BY 1/2 INCH SOLID MATERIAL.
- G. PROVIDE DECORATIVE COLLARS WITH SCROLLS AND RINGS.

1.6 PEDESTRIAN GATES

- A. PEDESTRIAN GATE DESIGN: MATCH FENCES DESIGN.
- B. GATE HARDWARE:
 - 1. HINGES: SIZE AND MATERIAL TO SUIT GATE SIZE, NON-LIFT-OFF TYPE, OFF-SET TO PERMIT 180 DEGREE OPENING.
 - 2. LATCH: SIZE AND TYPE TO SUIT GATE SIZE, OPERABLE FROM BOTH SIDES OF GATE. ALL STRIKE SURFACES SHALL BE STAINLESS STEEL.

1.7 FABRICATION, GENERAL

- A. SHOP ASSEMBLY: PRE-ASSEMBLE FENCE IN SHOP TO GREATEST EXTENT POSSIBLE TO MINIMIZE FIELD SPLICING AND ASSEMBLY. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES. CLEARLY MARK UNITS FOR REASSEMBLY AND COORDINATED INSTALL ATION.
- ATTACH CAST IRON PICKET FINIALS AND POST CAPS WITH STAINLESS STEEL SET SCREWS AFTER PAINTING AND FINISHING OF PICKETS, POSTS, FINIALS, AND CAPS. WELDING OF FINIALS TO PICKETS AND CAPS TO POSTS WILL NOT BE ACCEPTED.
- B. STRAIGHTEN PICKETS. MAXIMUM DEVIATION FROM STRAIGHT SHALL BE 1/8 INCH IN 4 FEET.
- C. SHEAR AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS.
- D. EASE EXPOSED EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH (1 MM), UNLESS OTHERWISE INDICATED. FORM BENT-METAL CORNERS TO SMALLEST RADIUS POSSIBLE WITHOUT CAUSING GRAIN SEPARATION OR OTHERWISE IMPAIRING WORK.
- E. ALL FORGING SHALL BE COAL FORGED
- F. PROVIDE CASTINGS THAT ARE SOUND AND FREE OF WARP OR DEFECTS WHICH IMPAIR STRENGTH OR APPEARANCE.
- G. WELD PICKETS TO RAILS AND WELD BRACKETS TO POSTS. MAKE ALL WELDS CONTINUOUS, TO COMPLY WITH THE FOLLOWING:
- USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE OF BASE METALS.
- 2. OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP.
- 3. AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS AND SURFACES SMOOTH AND BLENDED SO NO ROUGHNESS SHOWS AFTER FINISHING AND CONTOUR OF WELDED SURFACE MATCHES THAT OF ADJACENT SURFACE.
- H. PROVIDE FOR ANCHORAGE OF TYPE INDICATED; COORDINATE WITH SUPPORTING STRUCTURE. FABRICATE AND SPACE ANCHORING DEVICES TO SECURE METAL FENCE RIGIDLY IN PLACE.
- I. ALLOW FOR THERMAL MOVEMENT RESULTING FROM THE FOLLOWING MAXIMUM CHANGE (RANGE) IN AMBIENT AND SURFACE TEMPERATURES BY PREVENTING BUCKLING, OPENING UP OF JOINTS, OVERSTRESSING OF COMPONENTS, FAILURE OF CONNECTIONS, AND OTHER DETRIMENTAL EFFECTS. BASE ENGINEERING CALCULATION ON SURFACE TEMPERATURES OF MATERIALS DUE TO BOTH SOLAR HEAT GAIN AND NIGHTTIME-SKY HEAT LOSS.
 - TEMPERATURE CHANGE (RANGE): 120 DEG F (67 DEG C), AMBIENT; 180 DEG F (100 DEG C), MATERIAL SURFACES.

1.8 FINISHES, GENERAL

- A. COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATING FINISHES.
- B. FINISH ORNAMENTAL METAL FENCES AND GATES AFTER ASSEMBLY.

1.9 STEEL AND IRON FINISHES

- A. PREPARATION FOR SHOP PRIMING: PREPARE UNCOATED FERROUS-METAL SURFACES TO COMPLY WITH MINIMUM REQUIREMENTS INDICATED BELOW AND SSPC-SP 6/NACE NO. 3, "COMMERCIAL BLAST CLEANING" FOR SURFACE PREPARATION SPECIFICATIONS AND ENVIRONMENTAL EXPOSURE CONDITIONS OF INSTALLED METAL FABRICATIONS:
 - REMOVE ALL LOOSE SCALE BY BLASTING IN ACCORDANCE WITH SSPC-SP6. PERFORM BLASTING WITH AN AIR COMPRESSOR HAVING A MINIMUM CAPACITY OF 200 C.F.M. AND AN AIR DRYER WITH A MINIMUM CAPACITY OF 250 C.F.M.. USE CAST STEEL GRIT BLAST MEDIA G25, G40, OR G50 IN ACCORDANCE WITH SAE J1993.
 - APPLY COATING SYSTEM WITHIN FOUR HOURS OF BLASTING, IN A SUITABLY DESIGNED SPRAY BOOTH CAPABLE OF CONTROLLING ENVIRONMENTAL CONDITIONS. DO NOT APPLY PAINT WHEN THE AIR, STEEL OR PAINT MATERIALS ARE BELOW 50 DEGREES F. OR THE HUMIDITY IS ABOVE 80 PERCENT.
 - 2.1. DO NOT APPLY PAINT WHEN THE RELATIVE HUMIDITY EXCEEDS 80 PERCENT OR WHEN THE TEMPERATURE IS LESS THAN 5 DEGREES ABOVE THE DEW POINT. THE TEMPERATURE OF THE MATERIAL TO BE COATED MUST BE WITHIN 5 DEGREES OF THE AMBIENT TEMPERATURE WITH MINIMUM MATERIAL TEMPERATURE TO BE ABOVE 50 DEGREES. MONITOR AND RECORD TEMPERATURE AND RELATIVE HUMIDITY ON A DAILY BASIS DURING EACH APPLICATION.
- SHOP PRIMING: SHOP APPLY EPOXY PRIMER, WITHIN FOUR HOURS OF BLASTING, TO UNCOATED SURFACES OF METAL AT 4.0 TO 6.0 MILS DFT. COMPLY WITH SSPC_PA 1, "PAINT APPLICATION SPECIFICATION NO. 1: SHOP, FIELD, AND MAINTENANCE PAINTING OF STEEL," FOR SHOP PAINTING.

- 1. PRIME SURFACES PRIOR TO APPLICATION OF FINISH COAT. SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF OIL AND DIRT. FILL CRACKS AND CREVICES AT SCROLLS, CIRCLES, AND AT SANDWICHED COMPONENTS, WITH DYMONIC POLYURETHANE CAULKING AFTER PRIMING HAS CURED AND PRIOR TO APPLICATION OF THE FINISH PAINT COAT.
- 2. STRIPE PAINT CORNERS, CREVICES, BOLTS, WELDS, AND SHARP EDGES.
- C. FINISH COAT: SHOP APPLY ONE FINISH COAT OF POLYURETHANE APPLIED AT 2.0 TO 3.0 MILS DFT.
 - 1. COLOR: BLACK, HIGH GLOSS.
- D. PROVIDE FINISHED PRODUCT FREE OF RUNS, SAGS, PINHOLES AND HOLIDAYS. ALLOW PAINT TO FULLY CURE BEFORE INSTALLATION.

1.10 FENCE INSTALLATION

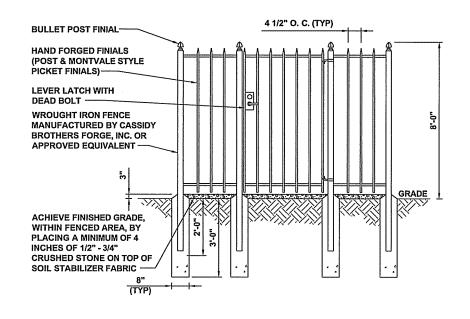
- A. INSTALL ORNAMENTAL METAL FENCES AND GATES IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. DO NOT BEGIN INSTALLATION AND ERECTION BEFORE FINAL GRADING IS FSTAB I ISHED.
- B. EXCAVATION: DRILL OR HAND-EXCAVATE (USING POST-HOLE DIGGER) HOLES FOR POSTS TO DIAMETERS AND SPACING INDICATED, IN FIRM, UNDISTURBED OR COMPACTED SOIL.
- IF NOT INDICATED ON DRAWINGS, EXCAVATE HOLES FOR EACH POST 6 TO 8 INCHES IN DIAMETER.
- 2. UNLESS OTHERWISE INDICATED, EXCAVATE HOLE DEPTHS NOT LESS THAN 36 INCHES BELOW THE FINISH GRADE SURFACE.
- C. SETTING POSTS IN EARTH: CENTER AND ALIGN POSTS IN HOLES, SPACE AS REQUIRED BY MANUFACTURER. BRACE TERMINAL POST AGAINST STRUCTURE AS REQUIRED.
- PROTECT PORTION OF POSTS ABOVE GROUND FROM CONCRETE SPLATTER. PLACE CONCRETE AROUND POSTS AND VIBRATE OR TAMP FOR CONSOLIDATION. CHECK EACH POST FOR VERTICAL AND TOP ALIGNMENT, AND HOLD IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS.
- 1.1. UNLESS OTHERWISE INDICATED, SET TOP OF CONCRETE FOOTINGS 4 INCHES BELOW FINISH GRADE.

1.11 GATE INSTALLATION

- A. INSTALL GATES ACCORDING TO MANUFACTURER'S APPROVED SHOP DRAWINGS, LEVEL, PLUMB, AND SECURE FOR FULL OPENING WITHOUT INTERFERENCE.
- B. INSTALL GATE HARDWARE AND OPERATORS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, ALIGNED AND TRUE TO FENCE LINE AND GRADE.

1.12 CLEANING AND PROTECTION

- A. TOUCHUP PAINTING: IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS OF SHOP PAINT, AND PAINT EXPOSED AREAS WITH SAME MATERIAL.
- B. RESTORE FINISHES DAMAGED DURING INSTALLATION AND CONSTRUCTION PERIOD SO NO EVIDENCE REMAINS OF CORRECTION WORK.



WROUGHT IRON FENCE AND GATE DETAIL



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OVERLAND PARK, KS 66210 (913) 458-2000

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SHEET NUMBER

FENCE DETAILS

A-11

NOTES

- CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING PATHS SHALL BE FIELD VERIFIED AND INSTALLED PER JURISDICTIONAL REQUIREMENTS.
- 2. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ONSITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT TIME OF CONSTRUCTION.
- 3. SUPERCHARGER CABINET CIRCUITS BETWEEN VEHICLE CHARGING STATIONS EXTENDING BEYOND 80'-0" SHALL BE ADDRESSED WITH THE APPROPRIATE ENGINEERING TEAMS AS SOON AS THE SITUATION ARISES.
- 4. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATIONS.

	(CHARGING POST	CIRCUIT SCHEDULI	=
SUPERCHARGER	DEDICATED FEED CHARGING POST	ENABLED FEED CHARGING POST	*CHARGER LENGTHS*	FEEDER CONFIGURATION (PER CHARGING POST)
1	1A	1B	DEDICATED- 46' ENABLED- 26'	(2) 250MCM AWG (THWN-2)+ COMM CABLE (PER TESLA) IN 2" CONDUIT
2	2A	2B	DEDICATED- 14' ENABLED- 29'	(2) 250MCM AWG (THWN-2)+ COMM CABLE (PER TESLA) IN 2" CONDUIT
3	ЗА	3B	DEDICATED- 12' ENABLED- 33'	(2) 250MCM AWG (THWN-2)+ COMM CABLE (PER TESLA) IN 2" CONDUIT
4	4A)	4B	DEDICATED- TBD ENABLED- TBD	(2) 2" SPARE CONDUITS

CHARGER CABLE LENGTHS ARE BASED ON DIAGRAMMATICAL MEASUREMENTS NOT INCLUDING BEND RADIUS' & BURIED DEPTHS. CONTRACTOR TO VERIFY ACTUAL LENGTHS ON SITE.



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10950 GRANDVIEW DRIVE OVERLAND PARK, KS 66210 (913) 458-2000

PROJECT NO:	179056
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CHECKED BY:	MBG

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REV	DATE	DESCRIPTION



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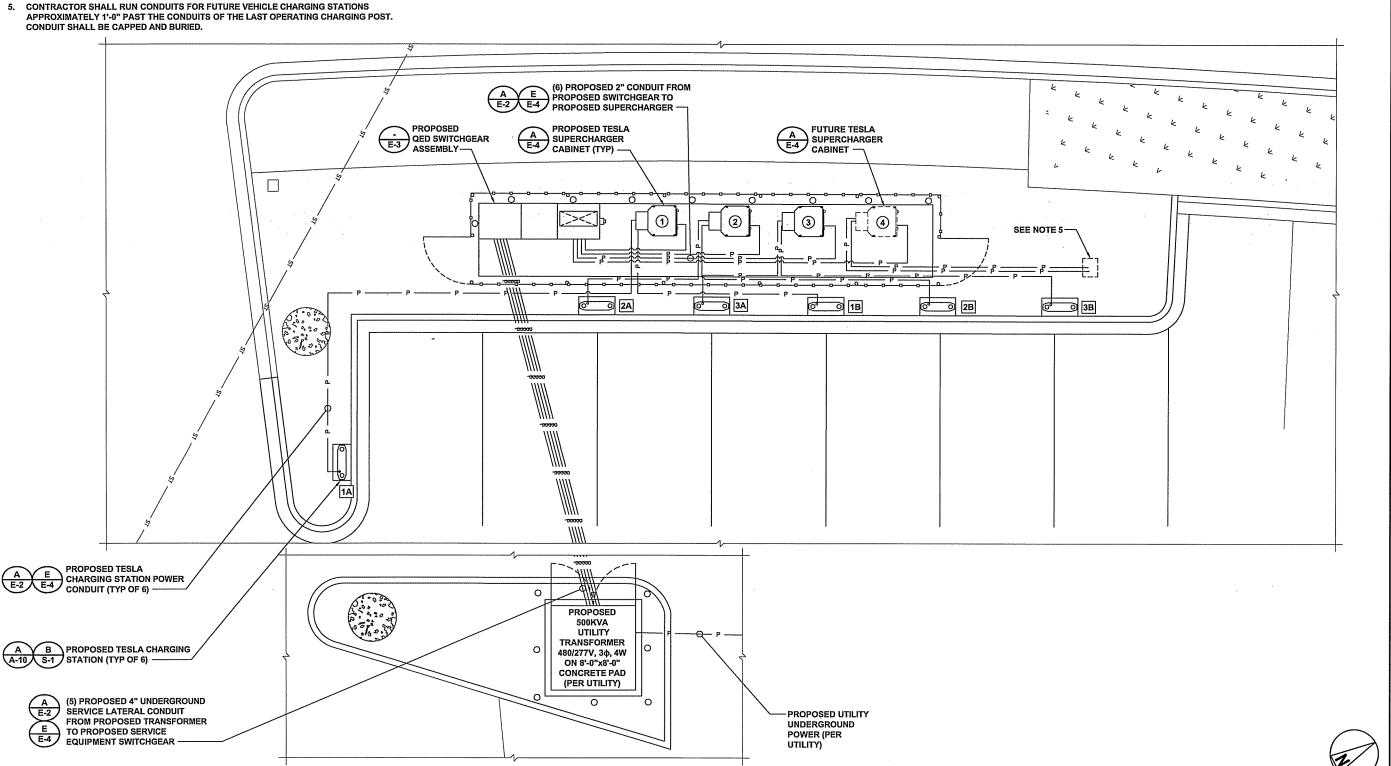
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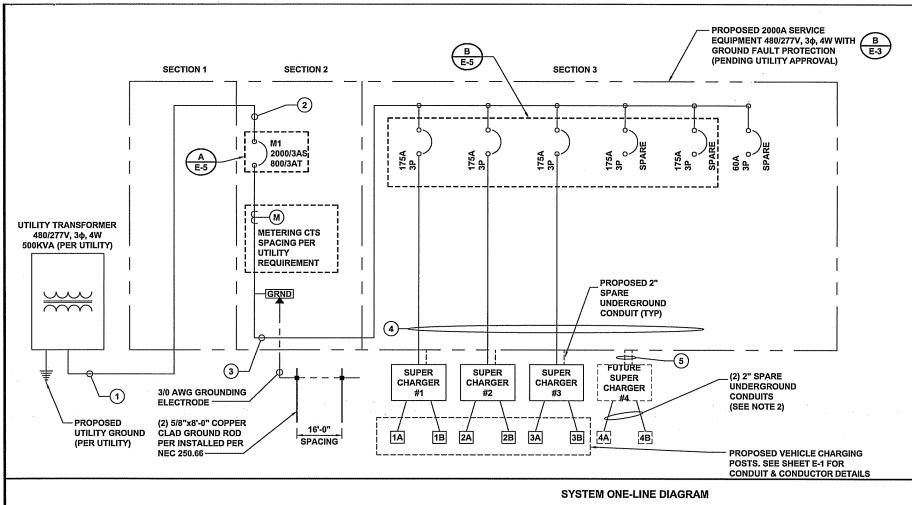
> > SHEET NUMBER

ELECTRICAL PLAN

SHEET NUMBER

E-1





	AC SERVICE ELECTRICAL CIRCUIT SCHEDULE				
NO	FROM	то	CONFIGURATION		
①	UTILITY TRANSFORMER	PROPOSED SERVICE EQUIPMENT; SECTION 1	(3) 4" CONDUITS W/ (4) 500MCM (THWN-2) PER CONDUIT+(2) SPARE 4" CONDUITS		
2	PROPOSED SERVICE EQUIPMENT; SECTION 1	PROPOSED SERVICE EQUIPMENT; METERING/ 800A MAIN BREAK SECTION 2	FACTORY INSTALLED 2000A BUSS		
3	PROPOSED SERVICE EQUIPMENT; METERING/ 800A MAIN BREAK SEC 2	PROPOSED SERVICE EQUIPMENT; BRANCH CIRCUIT DISTRIBUTION SECTION 3	FACTORY INSTALLED 2000A BUSS		
	PROPOSED SERVICE EQUIPMENT; CURCUIT 1 SECTION 3 (175 AMP)	PROPOSED TESLA SUPER CHARGER #1	(4) 3/0 (THWN-2) AWG, (1) #6 AWG GND IN 2" CONDUIT		
4	PROPOSED SERVICE EQUIPMENT; CURCUIT 2 SECTION 3 (175 AMP)	PROPOSED TESLA SUPER CHARGER #2	(4) 3/0 (THWN-2) AWG, (1) #6 AWG GND IN 2" CONDUIT		
	PROPOSED SERVICE EQUIPMENT; CURCUIT 3 SECTION 3 (175 AMP)	PROPOSED TESLA SUPER CHARGER #3	(4) 3/0 (THWN-2) AWG, (1) #6 AWG GND IN 2" CONDUIT		
(5)	PROPOSED SERVICE EQUIPMENT; CURCUIT 4 SECTION 3 (175 AMP)	FUTURE PROPOSED TESLA SUPER CHARGER#4	(2) SPARE 2" CONDUIT (SEE NOTE 2)		

NOTE

- 1. NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPER CHARGERS.
- 2. FUTURE SUPER CHARGER/VEHICLE CHARGING POST CONDUITS SHALL BE INSTALLED AND CAPPED AT THE APPROXIMATE LOCATIONS OF THE PROPOSED FUTURE EQUIPMENT.



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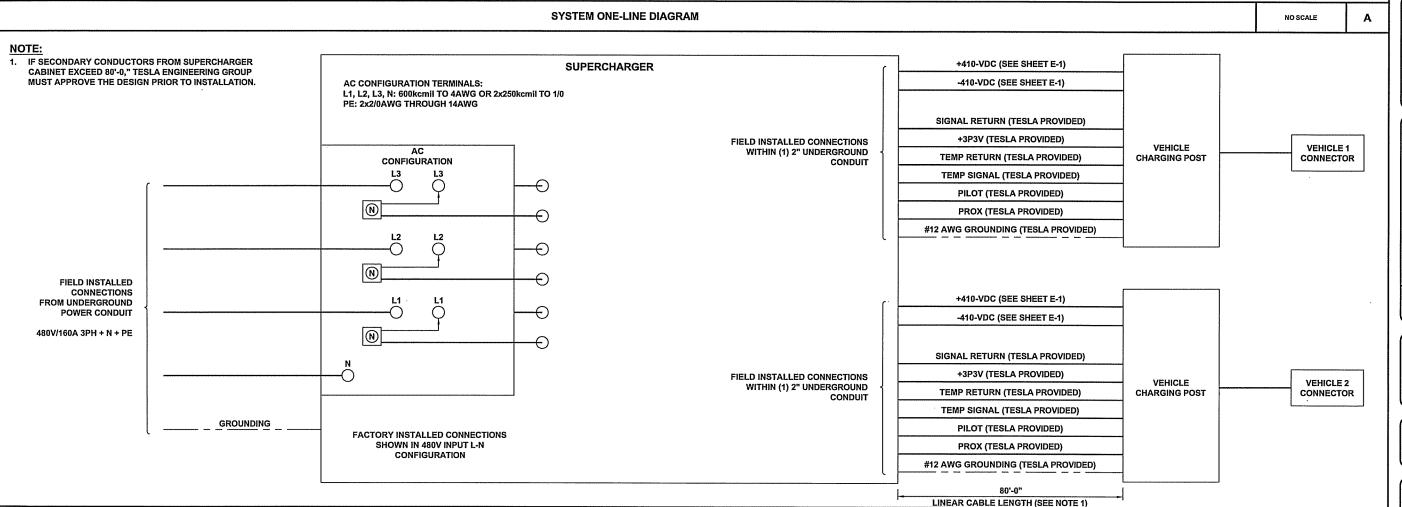
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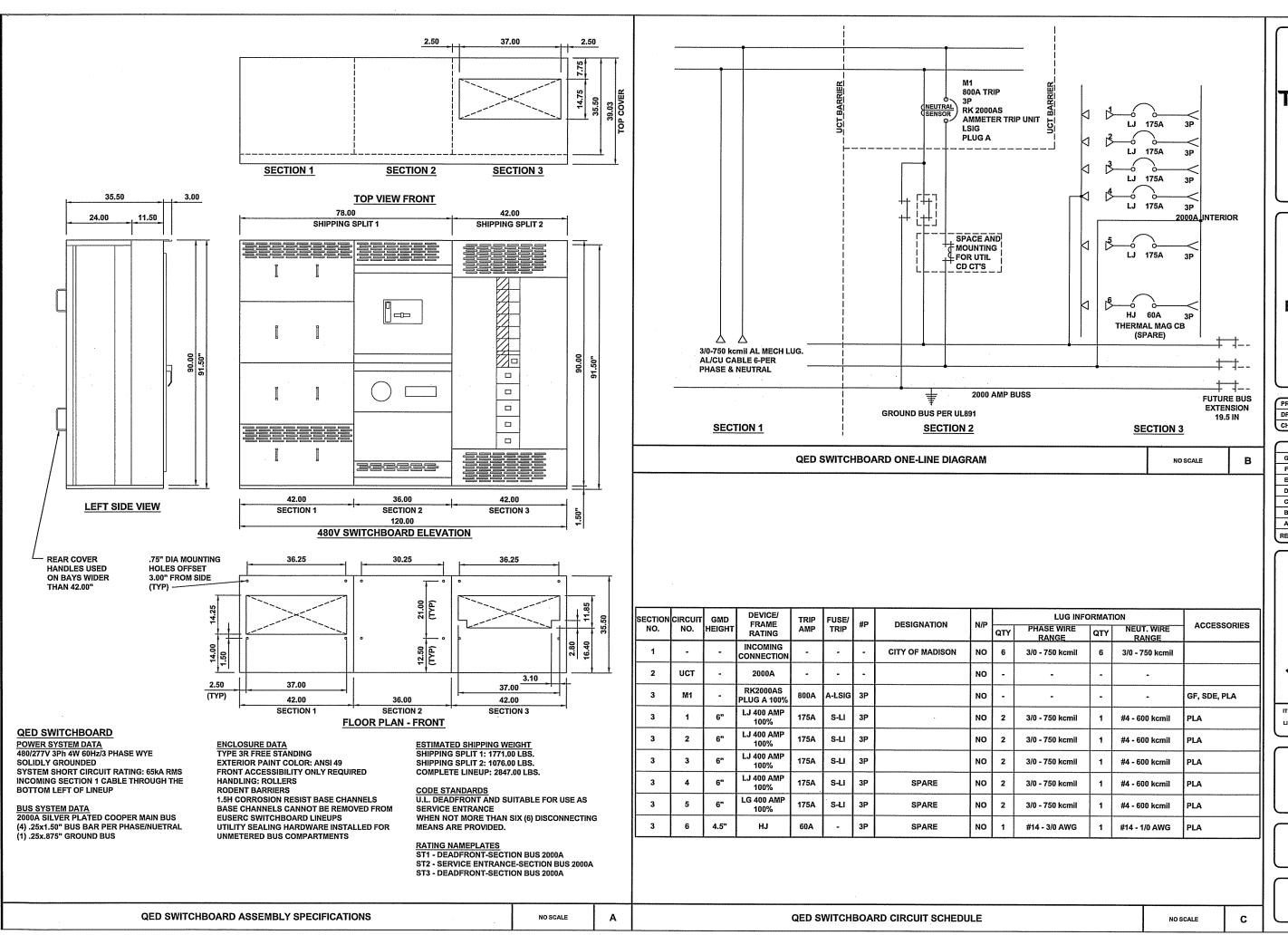
ELECTRICAL DETAILS

SHEET NUMBER

E-2



SUPERCHARGER CONNECTION ONE-LINE DIAGRAM





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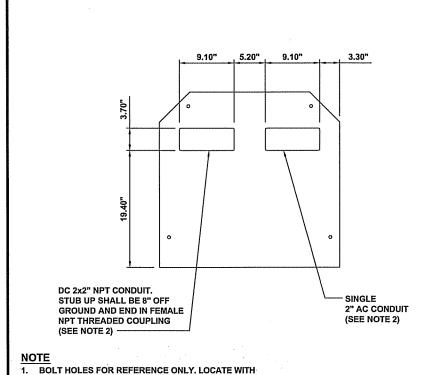
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ELECTRICAL DETAILS

SHEET NUMBER

E-3



SUPERCHARGER TEMPLATE, TO BE PROVIDED BY TESLA.

TO SEAL ENDS OF CONDUIT (TYP. ALL CONDUITS FOR

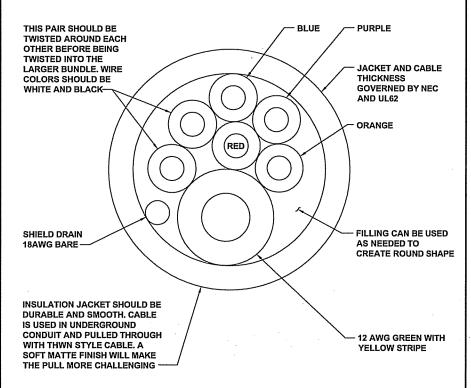
SUPERCHARGES AND CHARGE STATIONS)

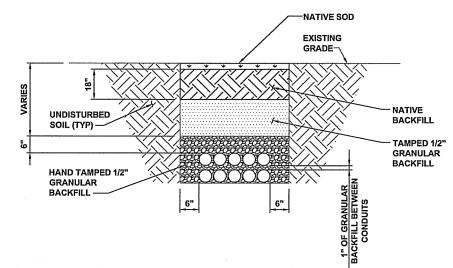
USE DOTTIE DUCT SEAL COMPOUND PC1630 (CAT NO LHD1)

TESLA SUPERCHARGER CONDUIT

ENTRY DETAIL

TO BE PROVIDED BY TESLA





В

NO SCALE

- ASPHALT SHALL COMPLY WITH STANDARD DOT OR LOCAL JURISDICTION SPEC. FOR HMA SURFACE COURSE.
- ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF.

TYPICAL CONDUIT UNDER SOIL TRENCH DETAIL

ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.

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DESCRIPTION

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ELECTRICAL DETAILS

E-4

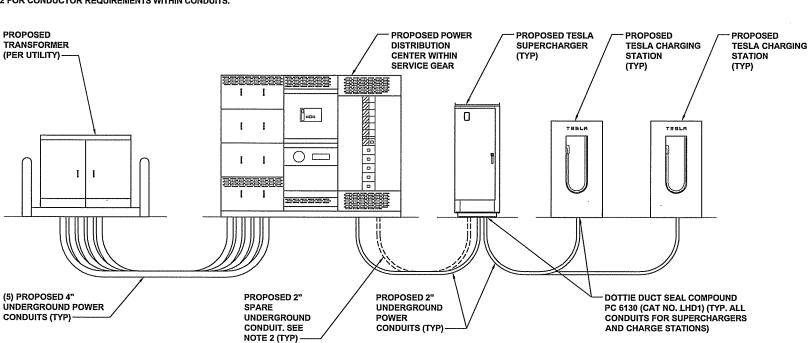
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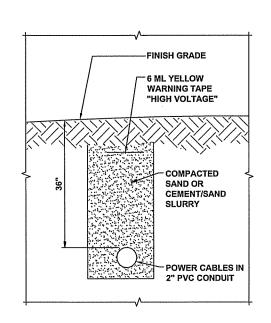
NO SCALE

1. CONDUITS SHALL BE BURIED BELOW FROST LINE AND IN COMPLIANCE

CONDUIT DETAIL

- WITH LOCAL AND NATIONAL CODE REQUIREMENTS. ONE ADDITIONAL CONDUIT SHALL BE INSTALLED IN PARALLEL OF
- PROPOSED POWER CONDUITS FOR FUTURE EXPANSION.
- 3. REFER TO SHEET E-2 FOR CONDUCTOR REQUIREMENTS WITHIN CONDUITS.





1. RESTORE GRADE TO ITS ORIGINAL CONDITION OR BETTER. FILL WITH WELL COMPACTED BACKFILL. IF TRENCH IS UNDER CONCRETE PAD, BACKFILL WITH AASHTO 57 STONE.

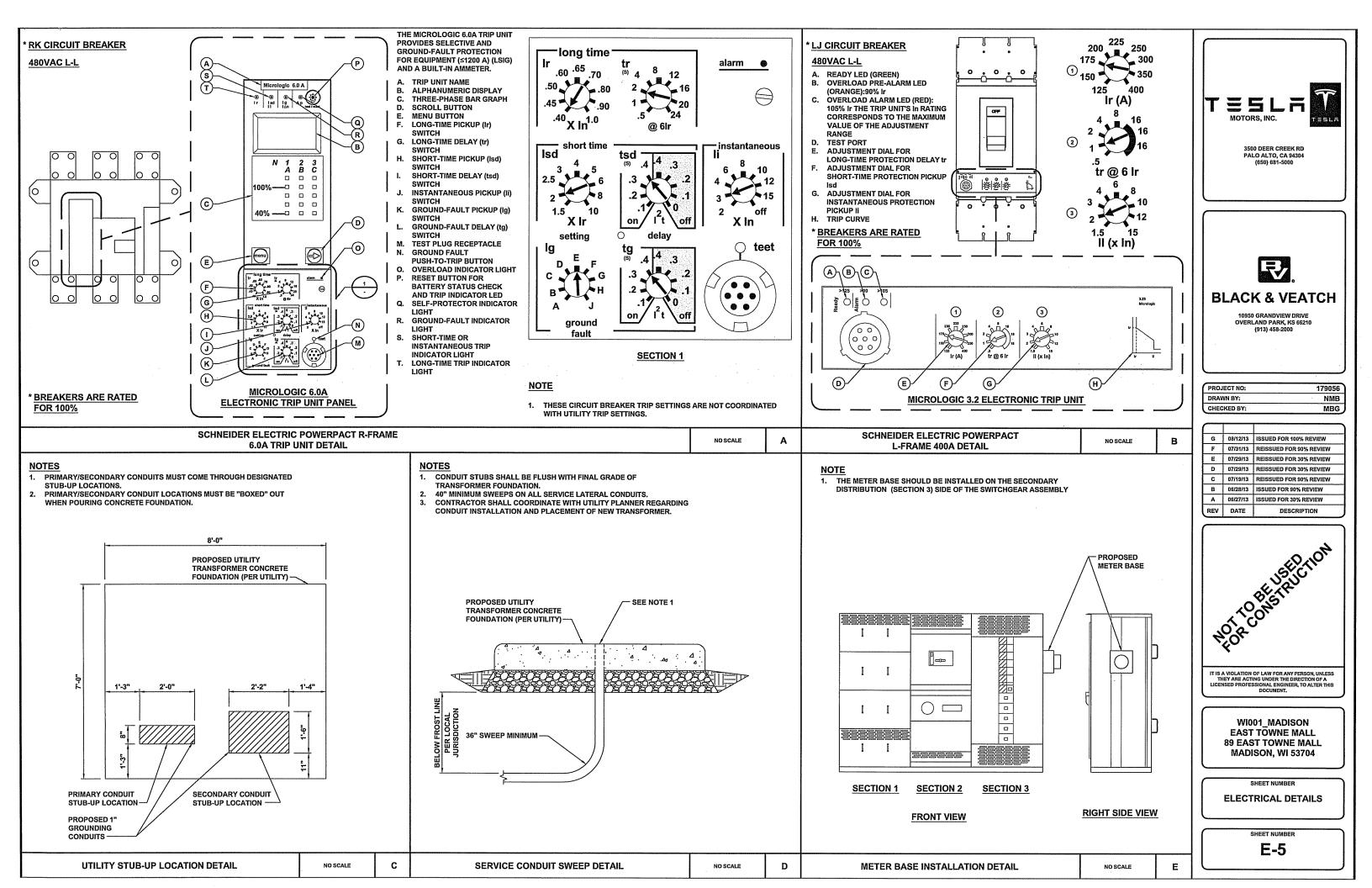
BURIED CABLE DETAIL

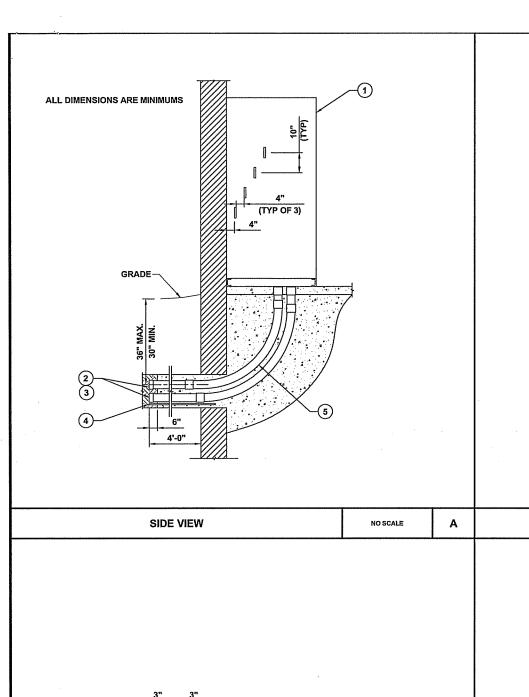
NO SCALE

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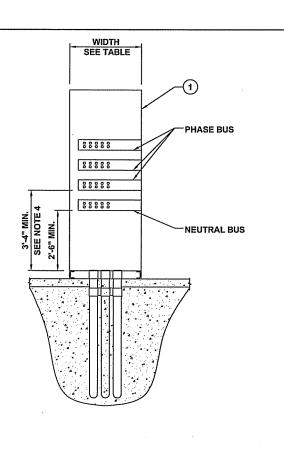
CAR CHARGER CONDUIT ELEVATION

Ε





9/16" DIA. HOLES - 2 REQUIRED PER CONDUCTOR.
SEE TABLE FOR SETS REQUIRED



CUSTOMER FURNISHES AND INSTALLS:

- COMPLETELY ENCLOSED TERMINATION COMPARTMENT WITH RIGIDLY SUPPORTED BUS BARS LOCATED AND DRILLED AS SHOWN.
- (2) 4"SHCEDULED 40 PVC CONDUIT, CONCRETE ENCASED. SEE TABLE FOR MINIMUM NUMBER OF CONDUITS REQUIRED. ALL METALLIC MUST BE BONDED.
- (3) TEMPORARY WATERTIGHT END CAPS.
- 4 REINFORCING RODS (EPOXY COATED RE-BAR).
- (5) 4" SCHEDULED 40PVC, 90" ELBOWS WITH 36" RADIUS.

NOTES



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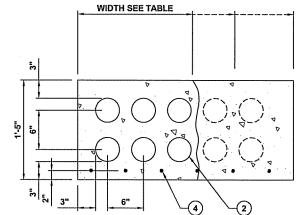
ELECTRICAL DETAILS

E-6

NO SCALE

SEE TABLE FOR NUMBER OF CONDUITS REQUIRED

В



FRONT VIEW

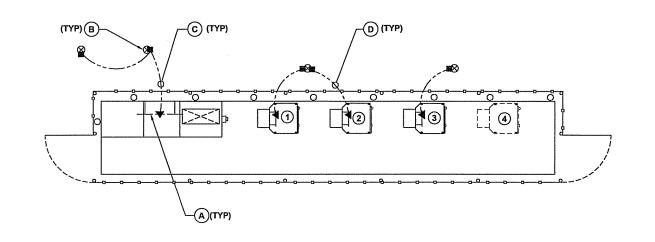
SWITCHGEAR REQUIREMENTS 2000, 3000 AND 4000 AMPERES					
SWITCHGEAR AMPERAGE	MINIMUM WIDTH OF TERMINATION COMPARTMENT	SETS OF HOLES REQUIRED	MINIMUM NUMBERS OF DUCTS	WIDTH OF CONDUIT PACKAGE	
2000	24 INCHES	6	6	24 INCHES	
3000	30 INCHES	8	8	30 INCHES	
4000	36INCHES	10	10	36 INCHES	

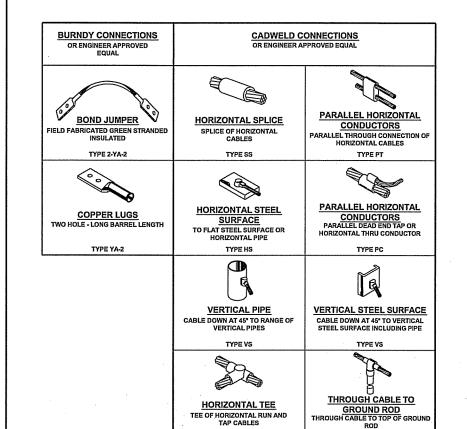
THE SHOWN ABOVE ARE MINIMUMS AND SHOULD NOT BE USED FOR DESIGN PURPOSES. FOR ACTUAL DIMENSIONS CONTACT THE SWITCHGEAR MANUFACTURER.

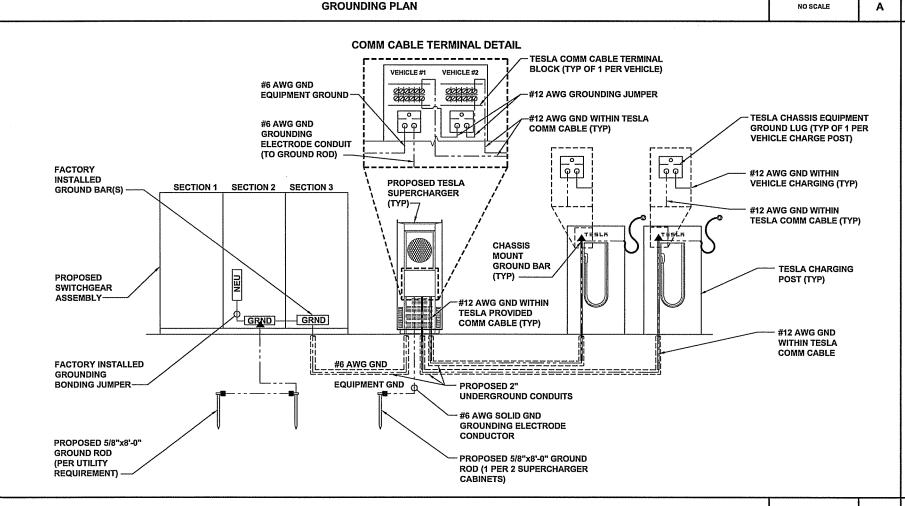
BUS DRILLING DETAILS NO SCALE D **CONDUIT DETAILS** NO SCALE

FRONT VIEW

F







GROUNDING SCHEMATIC

NOTES

GROUNDING LEGEND

A GROUND BAR WITHIN PROPOSED EQUIPMENT

D CABINET GROUND,

B PROPOSED 5/8"x8"-0" GROUND ROD, SEE DETAIL D, SHEET G-2

C PROPOSED SERVICE GROUND, SEE DETAIL C, THIS SHEET

PROPOSED SUPERCHARGER

PROPOSED GROUND RING
CADWELD CONNECTION
(EXOTHERMIC WELD)

MECHANICAL CONNECTION

NO SCALE

SEE DETAIL C, THIS SHEET

GROUND ROD

EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER
CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO BURIED GROUND
RING AND PROVIDE PARALLEL EXOTHERMIC WELD.

TYPE TA

- 2. ALL GROUND BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE." THE CONTRACTOR SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.
- 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.
- 4. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUND BUS.
- 6. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- 7. SUPPLIED AND INSTALLED BY CONTRACTOR.

CADWELD CONNECTION DETAIL

- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR
 AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- 9. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL
- 10. TESLA CHARGERS HAVE INTERNAL HIGH IMPEDANCE GROUND FAULT PROTECTION (10M Ω).



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GROUNDING DETAILS

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G-1

GROUNDING NOTES

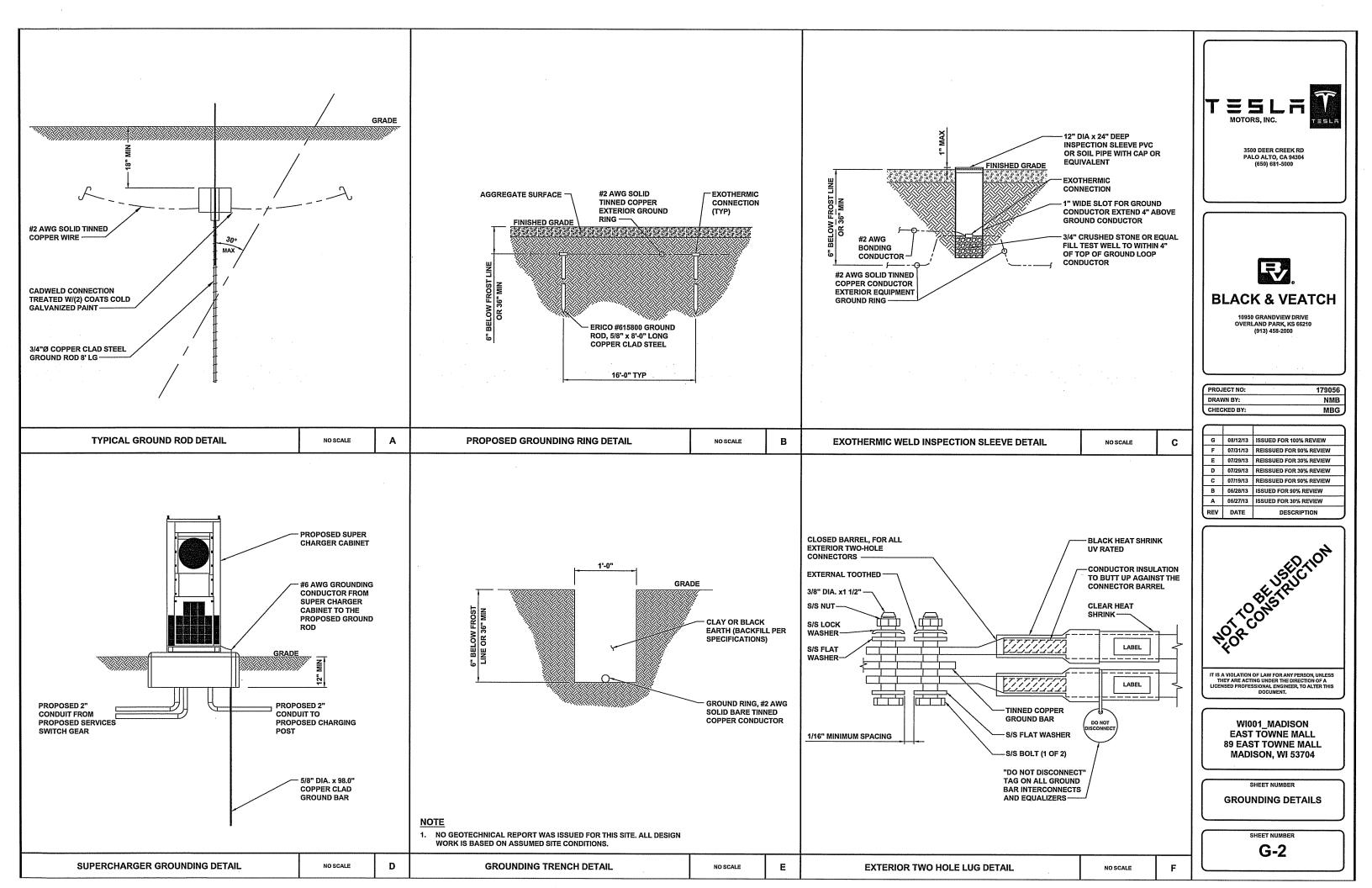
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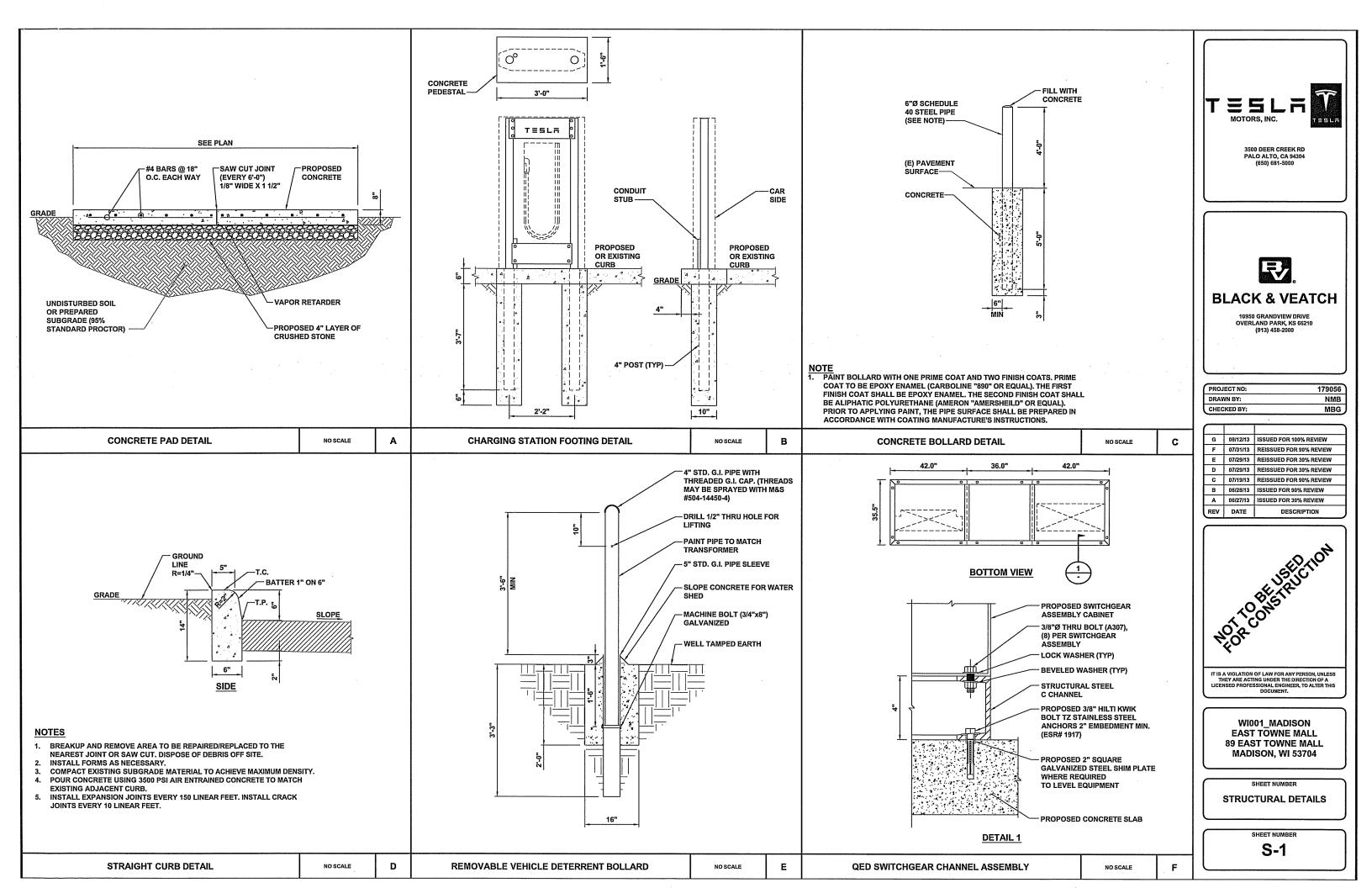
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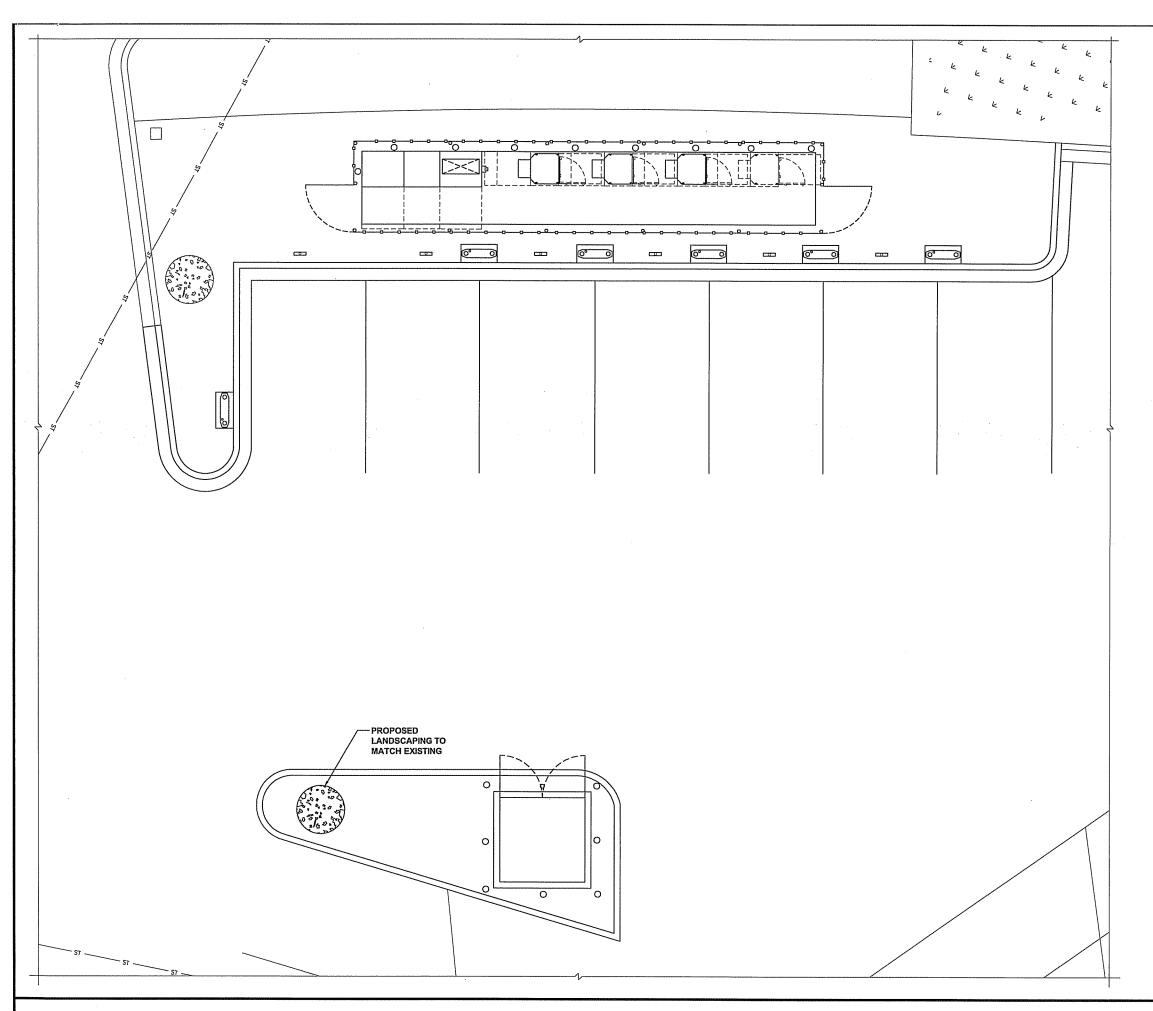
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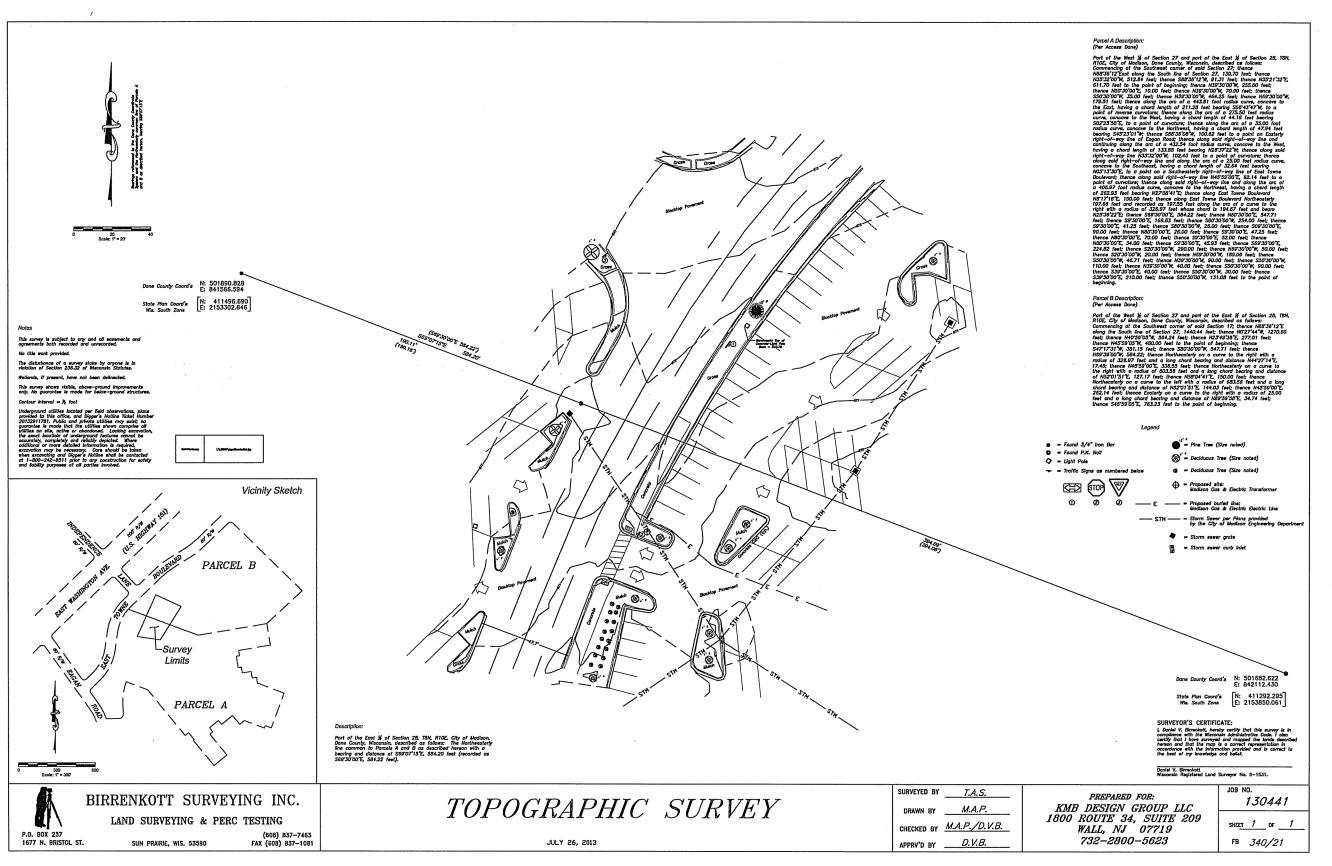
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LANDSCAPING PLAN

SHEET NUMBER

LS-1

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FOR REFERENCE ONLY

PROPERTY SURVEY

NO SCALE

PROPERTY SURVEY

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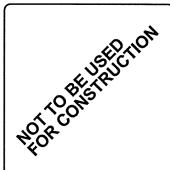
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