



PROJECT NUMBER: CO210134
INSTALLATION OF ELECTRIC VEHICLES CHARGING EQUIPMENT
WALMART 1689
5650 S. CHAMBERS RD.
AURORA, CO 80015



ELECTRIFY AMERICA, LLC.
 2003 EDMUND HALLEY DRIVE
 SUITE 200
 RESTON, VA 20191



4582 S. ULSTER STREET
 SUITE 1500
 DENVER, CO 80237
 303-286-2300

Job Name:
**AURORA
 WALMART 1689**

5650 S CHAMBERS RD
 AURORA, CO 80015

SITE INFORMATION

EV SITE ADDRESS:
 5650 S. CHAMBERS RD.
 AURORA, CO 80015

PROPERTY OWNER:
 WALMART

EQUIPMENT SUPPLIER:
 ELECTRIFY AMERICA, LLC.
 2003 EDMUND HALLEY DRIVE SUITE 200
 RESTON, VIRGINIA 20191

POWER COMPANY:
 XCEL ENERGY
 SHAUN HUGHES
 P: 303-571-3169
 SHAUN.M.HUGHES@XCELENERGY.COM

COUNTY:
 ARAPAHOE

LATITUDE (NAD83):
 39° 36' 49"

LONGITUDE (NAD83):
 104° 48' 48"

CONTACT ENGINEER:
 KIMLEY-HORN & ASSOCIATES
 BRYCE.CHRISTENSEN@KIMLEY-HORN.COM
 P: 303-228-2339
 BRYCE CHRISTENSEN, P.E.

BENCHMARK & BASIS OF BEARING

BENCHMARK: ELEVATIONS ARE BASED UPON NAVD88. REBAR WITH CONTROL CAP, AS SHOWN HEREON. ELEVATION: 5673.92.

BASIS OF BEARINGS: BEARINGS ARE BASED UPON THE COLORADO STATE PLANE COORDINATE SYSTEM, NAD83, CENTRAL ZONE.

APPLICABLE CODES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE BUILDING/DWELLING, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE/LIFE SAFETY CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THE LOCAL GOVERNING AUTHORITIES CODES

ZONING INFORMATION

PERMITTING JURISDICTION: CITY OF AURORA
ZONING CLASS: PD (COMMERCIAL)

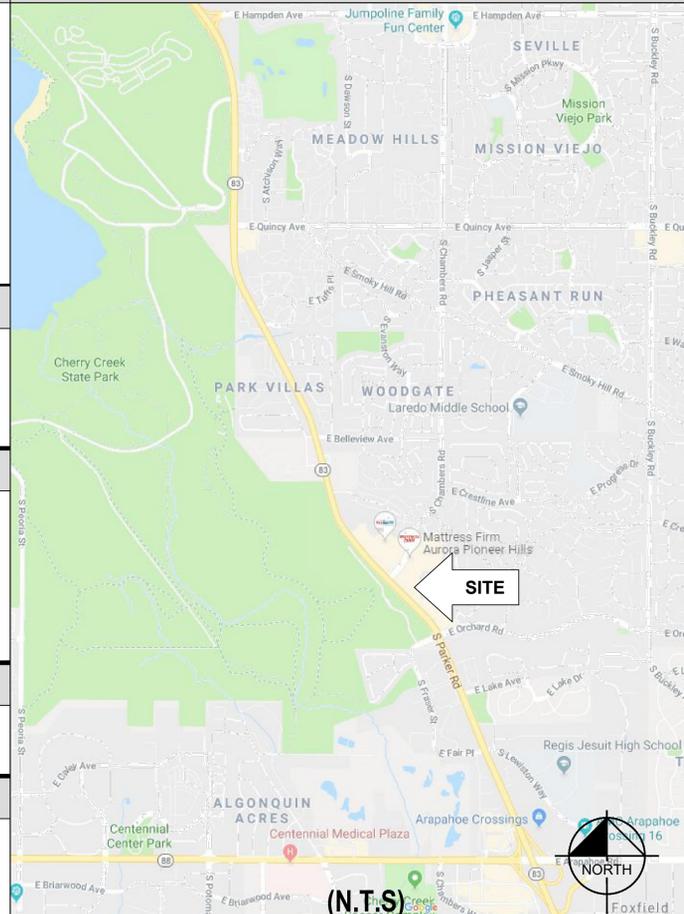
FLOOD HAZARD AREA NOTE

THIS SITE IS LOCATED IN FLOOD ZONE "X" PER FEMA FLOOD MAP FIRM 08005C0477L AND 08005C0481L. EFFECTIVE DATE: FEBRUARY 17, 2017.

CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND THE SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

VICINITY MAP



AERIAL MAP



PROJECT DESCRIPTION

- INSTALL (1) UTILITY TRANSFORMER (BY OTHERS)
- INSTALL (1) SWITCHBOARD ASSEMBLY
- INSTALL (4) 150 KW SIGNET DISPENSERS
- INSTALL (4) 150 KW SIGNET POWER UNITS

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FOR REFERENCE ONLY DRAWINGS
 PROPERTY SURVEY
 STAGING PLAN

CALL BEFORE YOU DIG



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

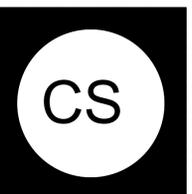
ENGINEER OF RECORD

BRYCE CHRISTENSEN
 PE NUMBER: 47935
 KIMLEY-HORN AND ASSOCIATES, INC.

SHEET DESCRIPTION:
 COVER SHEET & PROJECT INFORMATION



Project #: CO210134
 File: CONSTRUCTION DOCUMENTS
 Drawn by: JAR
 Date(s): 09/19/2019
 09/24/2019 REV#1 CD90 PLAN
 10/08/2019 REV#2 CD100 PLAN
 12/02/2019 REV#3 RFI #1



GENERAL CONSTRUCTION NOTES

FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY
GENERAL CONTRACTOR: PENDING OWNER SELECTION
OWNER: ELECTRIFY AMERICA

- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
- THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD 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.
- 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.
- 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.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 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.
- THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 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.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 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.
- THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 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.
- 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.

GENERAL CONSTRUCTION NOTES CONT.

- 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.
- 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.
- 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.
- 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.
- 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 JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 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.
- THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- 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.
- THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 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.

ELECTRICAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH 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.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. THE CONDITION OF EXISTING 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.
- 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:
 - UL - UNDERWRITERS LABORATORIES
 - NEC - NATIONAL ELECTRICAL CODE
 - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - SBC - STANDARD BUILDING CODE
 - NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
- DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, BUT CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING THE EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.

ELECTRICAL NOTES CONT.

- THE 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.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
- ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- 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.
- 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. CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL 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.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- 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.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- TRENCHING AND BACKFILL: THE CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO GENERAL SITE WORK NOTES.
- 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.
- 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.
- 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.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS EXCEPT THE EV CHARGE CABLE TERMINATION IN THE CHARGE POST SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC., COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC, MEETING OR EXCEEDING NEMA TC2 - 1990. THE 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 3 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'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 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.
- THE CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC".
- WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- ALL BOLTS SHALL BE STAINLESS STEEL.
- ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.



**electrify
america**

ELECTRIFY AMERICA, LLC,
2003 EDWIND HALLEY DRIVE
SUITE 200
RESTON, VA 20191

Kimley»Horn

4582 S. ULSTER STREET
SUITE 1500
DENVER, CO 80237
303-288-2300

Job Name:

**AURORA
WALMART 1689**

5650 S CHAMBERS RD
AURORA, CO 80015

SHEET DESCRIPTION:
GENERAL NOTES



Project #: CC210134
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GN-1

GENERAL SITE WORK 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. REFERENCES:
 - A. COLORADO DOT STANDARD SPECIFICATIONS CURRENT EDITION.
 - B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
 - C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).
2. INSPECTION AND TESTING:
 - A. GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. PERFORM INSPECTIONS BEFORE CONCEALING WORK WITH FOLLOW-ON ACTIVITIES (BACKFILL, CONCRETE POUR, ETC).
3. SITE MAINTENANCE AND PROTECTION:
 - A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
 - 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, LOCAL PERMITTING AGENCY 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 CONSTRUCTION MANAGER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
 - G. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
 - H. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.

PART 2 - PRODUCTS

1. SUITABLE MATERIAL SUITABLE MATERIAL ARE USED FOR GRADING AND BACKFILL. SUITABLE MATERIALS ARE ON SITE SOILS REMOVED FROM EXCAVATIONS THAT EXCLUDE FROZEN SOIL, ROOTS OR ORGANIC MATERIAL, DEBRIS, TRASH, REFUSE, OR PARTICLES SIZE GREATER THAN 3-INCH. SUITABLE SOILS HAVE MOISTURE CONTENTS THAT ALLOW THEM TO BE COMPACTED TO THE SAME DENSITY AS THE NATIVE SOILS.
2. UNSUITABLE MATERIAL SOILS THAT ARE FROZEN, CONTAIN ROOTS OR ORGANIC MATERIAL, DEBRIS, TRASH, REFUSE, OR PARTICLES SIZES GREATER THAN 3-INCH. SOILS THAT ARE TOO WET OR TOO DRY TO BE COMPACTED TO THE SAME DENSITY AS THE NATIVE SOILS ARE UNSUITABLE.
3. GRANULAR BACKFILL SHALL MEET THE FOLLOWING GRADATION

SIEVE SIZE	TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM)	100
NO. 4 (4.75 MM)	30 TO 60
NO 200 (0.075 MM)	3 TO 15

4. GRANULAR BEDDING WELL-GRADED SAND MEETING THE GRADATION REQUIREMENT OF ASTM C 33 FINE AGGREGATE.
5. CONTROLLED LOW STRENGTH MATERIAL (CLSM) A SELF LEVELING AND SELF COMPACTING CEMENTITIOUS MATERIAL COMPOSED OF SAND, COARSE AGGREGATE, CEMENT, FLY ASH, WATER AND ADMIXTURES. CLSM SHALL BE EXCAVATABLE AND SHALL HAVE A DESIGNED UNCONFINED COMPRESSIVE STRENGTH OF BETWEEN 50 TO 100 PSI.
6. BACKFILL PRODUCTS MEETING THE REQUIREMENTS OF SUITABLE MATERIAL, GRANULAR BEDDING, GRANULAR BACKFILL OR CLSM.
7. TOPSOIL SOIL WITH AN ORGANIC CONTENT SUFFICIENT TO ALLOW VEGETATIVE GROWTH.

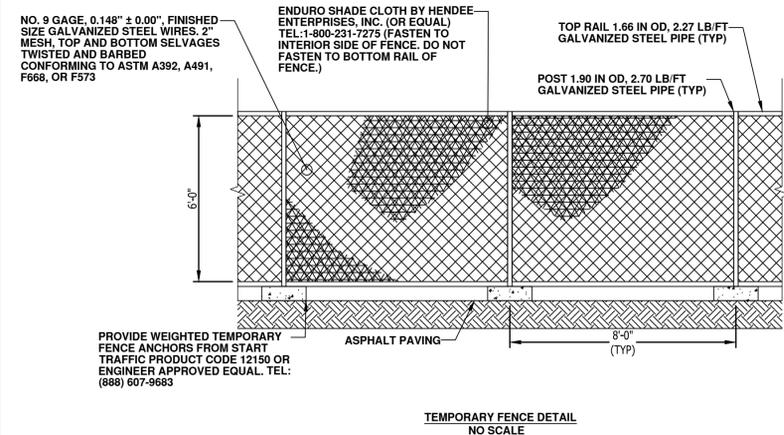
GENERAL SITE WORK NOTES CONT.

PART 3 - EXECUTION

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 ALL TIMES.
 - B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK. CONDUCT UTILITY LOCATE IN ACCORDANCE WITH THE ONE-CALL NOTIFICATION 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.
 - C. 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.
 - E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS. SUFFICIENT TOPSOIL MAY BE STOCKPILED ON SITE FOR USE DURING FINAL SITE GRADING.
 - F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE MATERIAL.
 - G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
 - H. 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.
 - I. 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.
 - J. DURING EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
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.
 - B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
 - C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.
 - D. PLACE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACT TO THE SAME DENSITY AS NATIVE SOIL. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
 - E. WHENEVER TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE COMPACTION REQUIREMENTS.
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.

GENERAL SITE WORK NOTES CONT.

- 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, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR BEDDING MATERIAL.
4. TRENCH BACKFILL:
 - A. PROVIDE GRANULAR BEDDING MATERIAL OR FLOWABLE FILL 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.
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. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.
6. ASPHALT PAVING ROAD:
 - A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE NOTED.
 - B. COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION CURRENT EDITION.
7. STAGING:
 - A. WORK / STAGING AREA TO BE CONFIRMED AT PRE-CONSTRUCTION SITE MEETING AND SURROUNDED BY TEMPORARY FENCE (SEE DETAIL BELOW) DURING CONSTRUCTION.
 - B. POSSIBLE LOCATION FOR TEMPORARY DRIVE AISLE CLOSURE DURING CONSTRUCTION.
 - C. CONTRACTOR TO PROVIDE TEMPORARY SIGNS TO DIRECT TRAFFIC FLOW.
 - D. SHORT TERM FENCING TO BE PROVIDED OUTSIDE OF TEMPORARY FENCE FOR ANY OPEN TRENCHES LEFT OVER NIGHT OR UNATTENDED.
 - E. TEMPORARY FENCE SHALL BE CLOSED AND LOCKED AT ALL TIMES. IF GATE MUST BE OPEN FOR MOVING EQUIPMENT OR MATERIALS, A SPOTTER SHALL BE PROVIDED TO TO PREVENT UNAUTHORIZED ENTRY.
 - F. NO EQUIPMENT OR MATERIALS SHALL BE STORED OUTSIDE THE TEMPORARY FENCE FOR ANY AMOUNT OF TIME.



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Job Name:
**AURORA
WALMART 1689**

5650 S CHAMBERS RD
AURORA, CO 80015

SHEET DESCRIPTION:
GENERAL NOTES



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STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE: WIDE FLANGE SHAPE: A992, 50KSI
ANGLE AND CHANNEL SHAPE: ASTM A36, 36 KSI PLATE: ASTM A36, 36KSI
PIPE: ASTM A53 GRADE B, 35 KSI
HSS: ASTM A500 GRADE B, 46KSI
- HIGH-STRENGTH 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.
- WELDING ELECTRODES SHALL COMPLY WITH AWS D1.1 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.
- UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.
- FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
- ALL EXPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- 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.
- PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11

REINFORCED CONCRETE NOTES

- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED CONTINUOUS INSPECTION IS NOT REQUIRED. SLUMP: 4" MIN / 6" MAX.
i. 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".
- REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI 318 FOR MINIMUM CLEARANCES AND CONCRETE COVER.
- 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.
- MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
- DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.7.
- 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.
- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66 AND " BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ", ACI 318.
- PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.
- EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE CONCRETE PAD ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PRE-FABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

GROUNDING NOTES

- COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- ALL BELOW GRADE BONDS TO BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION-TYPE CONNECTIONS LISTED FOR USE IN THE APPLICATION WHICH THEY ARE INSTALLED.

ANCHORAGE INSTALLATION NOTES

- DRILLING THROUGH EXISTING SLAB REBAR DURING POST-INSTALLED ANCHOR BOLTS INSTALLATION IS NOT PERMITTED.
- POST-INSTALLED ANCHOR BOLT INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGING.
- EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS USING STANDARD EMBEDMENTS AND EDGE DISTANCES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

CONCRETE SIDEWALK CONSTRUCTION REQUIREMENTS

- PLACING AND FINISHING CONCRETE**
THE CONTRACTOR SHALL PROVIDE ADEQUATE TOOLS AND EQUIPMENT TO PRODUCE QUALITY WORKMANSHIP IN PLACING AND FINISHING CONCRETE. THE SIDEWALK AND RAMPS SHALL BE FINISHED TO THE TOP OF THE FORMS AND THE SURFACE FINISHED WITH A WOOD OR STEEL FLOAT AND SURFACE TEXTURE SHALL BE A COURSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE SIDEWALK OR RAMP. NO PLASTERING OF THE SURFACE SHALL BE PERMITTED.
- CONTRACTION JOINTS**
THE SIDEWALK SURFACE SHALL BE MARKED OFF INTO NOMINAL SQUARES OF DIMENSION TO THE WIDTH OF THE SIDEWALK WITH A MAXIMUM DISTANCE BETWEEN JOINTS OF SEVEN FEET SAWING JOINTS, THE CONTRACTOR SHALL BEGIN AS SOON AS THE CONCRETE HARDENS SUFFICIENTLY TO PREVENT EXCESSIVE RAVELING ALONG THE SAW CUT AND SHALL FINISH BEFORE CONDITIONS INDUCE UNCONTROLLED CRACKS, REGARDLESS OF THE TIME OR WEATHER.
- EXPANSION JOINTS**
EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE SIDEWALK ABUTS EXISTING CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND EVERY TWO HUNDRED FIFTY FEET AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF.

SITE HOST SPECIFIC NOTES - WALMART

- WALMART DESIGN GUIDELINES:**
 - REFER TO THE PROJECT AREA STALL COUNT TABLE ON SHEET C-3 FOR THE PRE-APPROVED WALMART STALL COUNT.
 - IF EXISTING LIGHTING IS DETERMINED TO FALL BELOW THE 2.0-4.5 FC RANGE, ADDITIONAL LIGHTING WILL BE ADDED. REFER TO SHEET C-3 FOR PROPOSED LIGHT POLES (IF APPLICABLE).
 - REFER TO THE NOTES SECTION OF WALMART STAGING PLAN REFERENCE SHEET AND SHEET E-1 FOR TRENCHING/BORING INSTRUCTIONS. REFER TO SHEET E-4 FOR TRENCHING UNDER ASPHALT WITH FLOWABLE BACKFILL DETAIL.
 - REFER TO NOTES SECTION OF SHEET C-3 FOR SLOPE REQUIREMENTS (IF ACCESSIBLE STALL IS CLEARLY IDENTIFIED).
- IRRIGATION NOTES:**
 - CONTRACTOR TO INSTALL IRRIGATION FOR PROPOSED LANDSCAPING BY TYING INTO NEAREST IRRIGATION SYSTEM. NEW LANDSCAPING TO BE INSTALLED AFTER INSTALLATION OF IRRIGATION SYSTEM.
 - INSTALLING ELECTRIC VEHICLE CHARGING STATIONS WILL MOST LIKELY AFFECT THE SITE'S IRRIGATION SYSTEM FOR A PERIOD OF TIME. TO ENSURE THE IRRIGATION SYSTEM IS WORKING AS WELL AS POSSIBLE, THE COMPANY INSTALLING THE EV CHARGING STATION MUST NOTIFY WALMART'S IRRIGATION MONITORING COMPANY AT THREE POINTS DURING CONSTRUCTION.
 - BEFORE DEMO BEGINS, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO LET THEM KNOW THAT CONSTRUCTION IS STARTING AND DAMAGES MAY BE DONE TO THE IRRIGATION SYSTEM, AS WELL AS PROVIDE AN APPROXIMATE COMPLETION DATE.
 - WHEN IRRIGATION REPAIRS HAVE BEEN COMPLETED, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO HAVE THE IRRIGATION SYSTEM TESTED REMOTELY TO MAKE SURE IT IS IN PROPER WORKING CONDITION.
 - WHEN CONSTRUCTION IS COMPLETE, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO HAVE THE IRRIGATION SYSTEM TESTED REMOTELY TO MAKE SURE IT IS IN PROPER WORKING CONDITION.
 - AT ANY OF THE ABOVE TIMES, WALMART'S IRRIGATION MAINTENANCE CONTRACTOR MAY BE CONTACTED TO MEET THE INSTALLER ON SITE TO ENSURE PROPER WORKING OF THE IRRIGATION SYSTEM BEFORE THE INSTALLATION CAN BE CONSIDERED COMPLETE.
 - THE INSTALLING COMPANY AND THEIR IRRIGATION SUBCONTRACTOR WILL NOT HAVE ACCESS TO THE IRRIGATION CONTROLLER ON SITE. IF A STATION NEEDS TO BE TURNED ON OR OFF, TESTED, OR RUN, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO HAVE THESE THINGS DONE REMOTELY.
 - THE INSTALLING COMPANY CANNOT TURN OFF THE IRRIGATION SYSTEM OR THE WATER WITHOUT NOTIFYING SC&A (615-469-0943). WALMART HAS THE RIGHT TO PROTECT THEIR PLANT MATERIAL BY USING THE IRRIGATION SYSTEM AND THE INSTALLER CANNOT IMPEDE THAT PROTECTION. THE MONITORING COMPANY WILL BE ALERTED BY THE CONTROLLER IF THE WATER OR THE CONTROLLER IS TURNED OFF.

NOTE: PHOTOMETRICS PROVIDED BY WALMART HAVE BEEN REVIEWED AND THE PROJECT DOES NOT MEET WALMART'S MINIMUM FOOTCANDLE REQUIREMENT IN NOTE 1B. REFER TO SHEET C-3 FOR PROPOSED LIGHT POLE(S).



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303-288-2300

Job Name:

**AURORA
WALMART 1689**

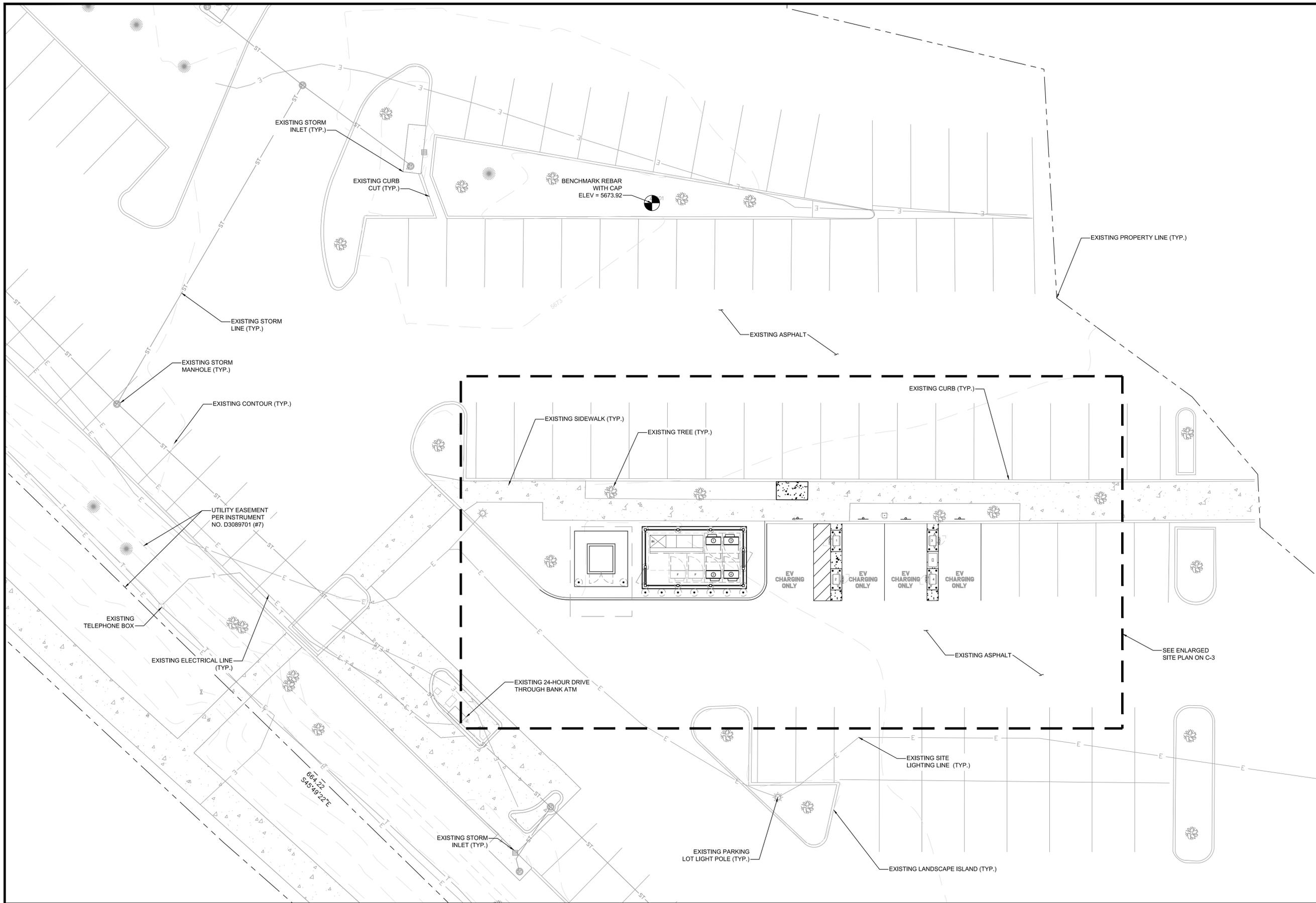
5650 S CHAMBERS RD
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SHEET DESCRIPTION:
GENERAL NOTES



Project #: CC210134
File: CONSTRUCTION DOCUMENTS
Drawn by: JAR
Date(s): 09/19/2019
09/24/2019 REV#1 CD90 PLAN
10/08/2019 REV#2 CD100 PLAN
12/02/2019 REV#3 RFI #1





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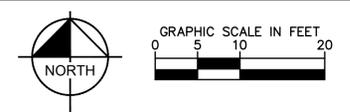
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SHEET DESCRIPTION:
OVERALL SITE PLAN

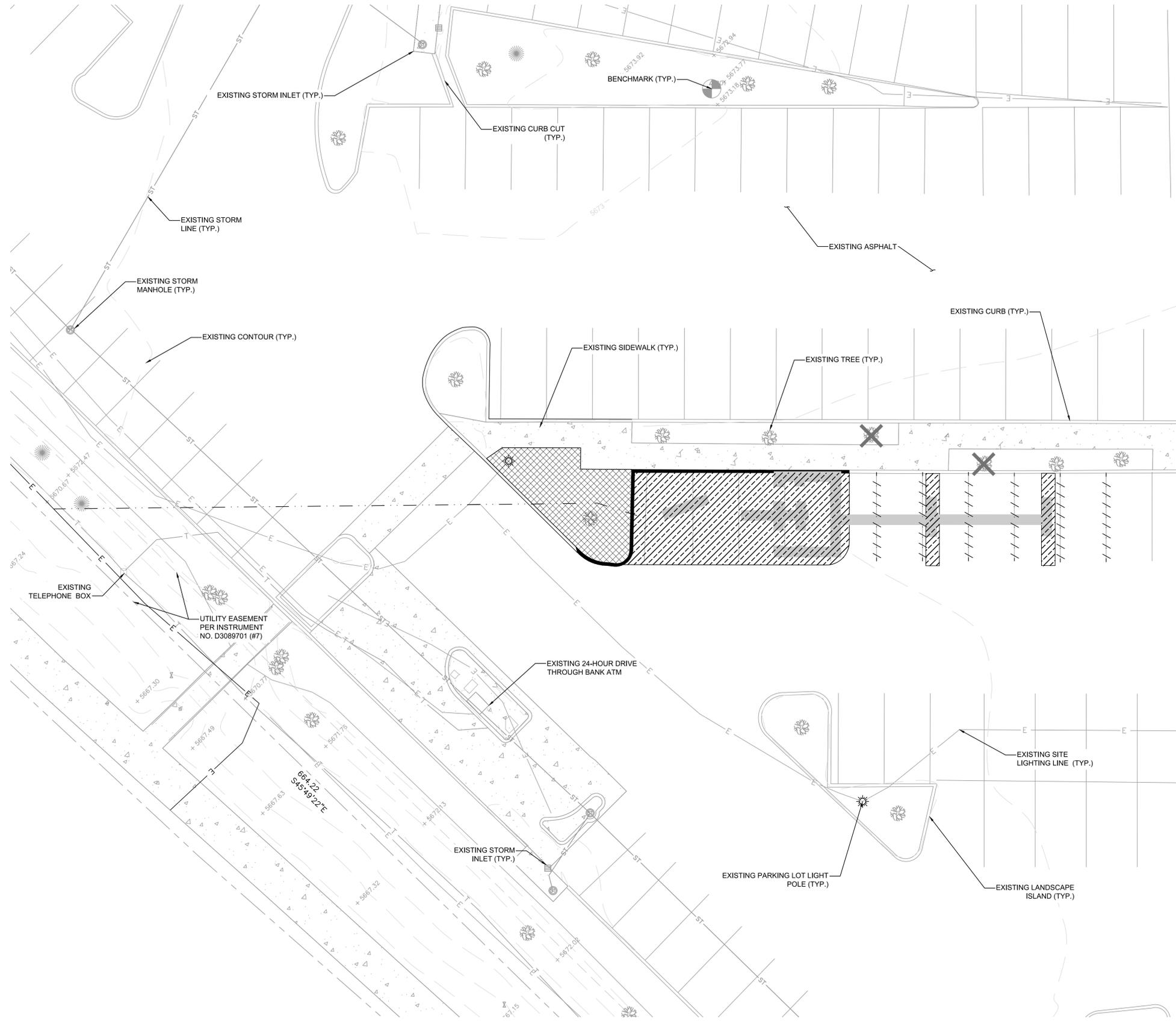


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A
C-1 **OVERALL SITE PLAN**



C-1



DEMO QUANTITIES TABLE

	ASHPALT	757 SQ FT
	PARKING LINES	GRINDING
	CURB	71 LF
	LANDSCAPING	318 SQ FT
	UTILITY TRENCH	±130 LF
	UTILITY BORE	±115 LF
	TREE REMOVAL	2 EA

NOTES

1. THE CONTRACTOR SHALL RETURN SIDEWALKS, LANDSCAPING, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITION THAN EXISTED PRIOR TO THE COMMENCEMENT OF THE WORK.
2. ALL QUANTITIES LISTED IN DEMOLITION PLAN SHEET ARE ONLY APPROXIMATIONS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES BEFORE BIDDING.
3. TRENCHING IS TO BE USED EXCEPT IN HEAVY TRAFFIC AREAS, MAIN DRIVE AISLES AND ACROSS STORE ENTRANCE.
4. THE CONTRACTOR SHALL PROTECT EXISTING INFRASTRUCTURE IN PLACE WITHIN THE AREA OF IMPROVEMENTS



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Job Name:
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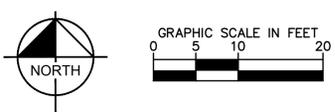
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SHEET DESCRIPTION:
DEMOLITION PLAN



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A
C-2
DEMOLITION PLAN



C-2

NOTES

- SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
- THE CONTRACTOR SHALL RETURN SIDEWALKS, LANDSCAPING, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITION THAN EXISTED PRIOR TO THE COMMENCEMENT OF THE WORK.

PROJECT AREA STALL COUNT

EXISTING STALL COUNT	10
PROPOSED STALL COUNT	4
WALMART APPROVED STALL COUNT	10

PROPOSED DISPENSER

DISPENSER NUMBER	150 KW	CABLE TYPE
1	X	CHAdEMO/CCS
2	X	CCS
3	X	CCS
4	X	CCS

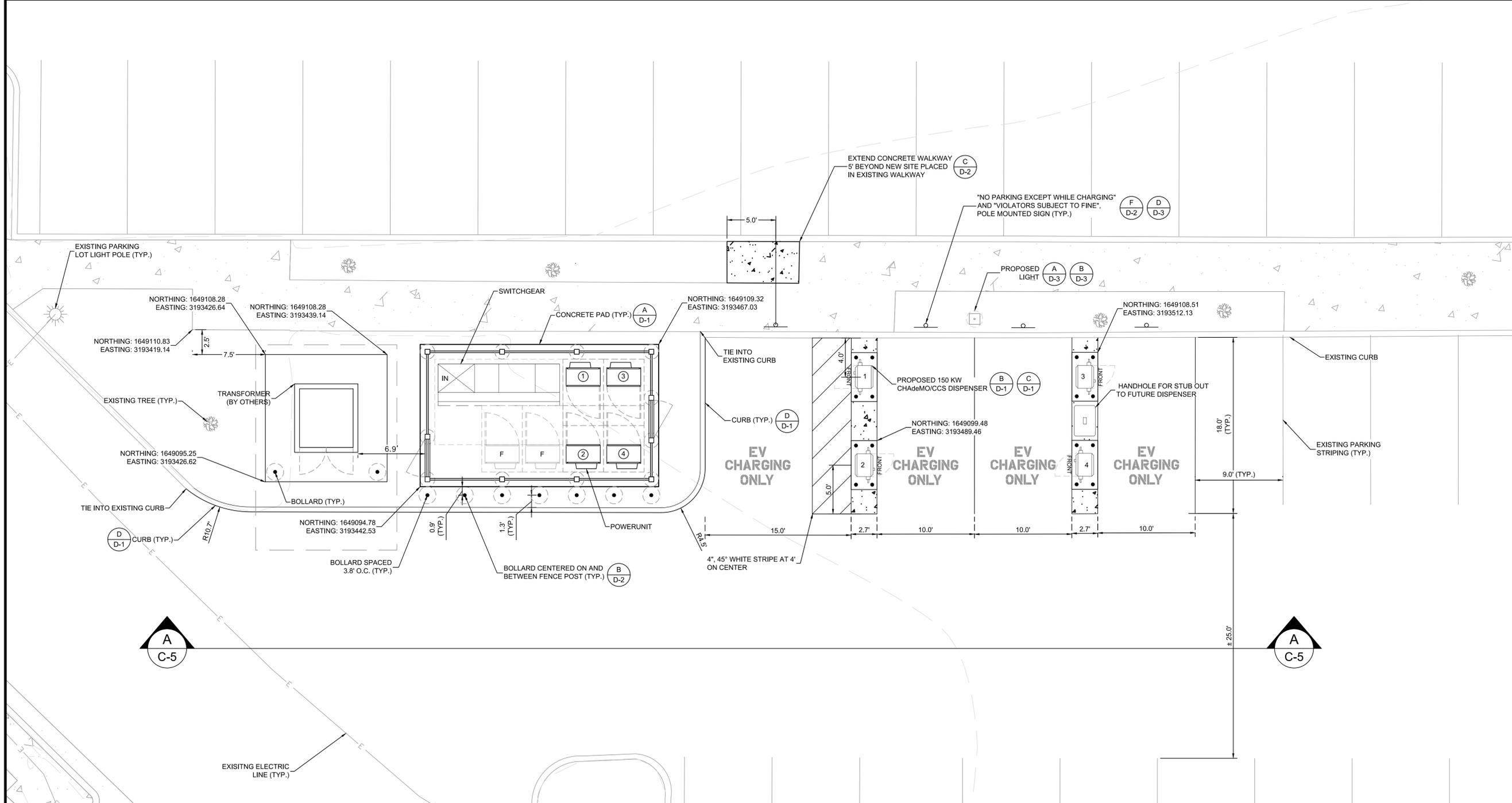
DECIMAL FEET TO ARCHITECTURAL CONVERSIONS

DECIMAL (FT)	ARCH. (IN)	DECIMAL (FT)	ARCH. (IN)
0.04'	1/2"	0.5'	6"
0.08'	1"	0.58'	7"
0.1'	1-1/4"	0.6'	7-1/4"
0.17'	2"	0.67'	8"
0.2'	2-1/2"	0.7'	8-1/2"
0.25'	3"	0.75'	9"
0.3'	3-1/2"	0.8'	9-1/2"
0.33'	4"	0.83'	10"
0.4'	4-3/4"	0.9'	10-3/4"
0.42'	5"	0.92'	11"

CURB LEGEND

TYPE C HEADER CURB

*CONVERSION FROM DECIMAL ARE TO THE NEAREST USABLE 1/4" FRACTION



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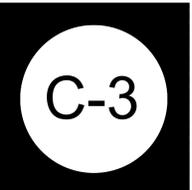
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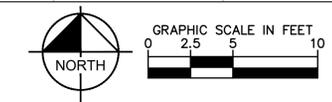
SHEET DESCRIPTION:
ENLARGED SITE PLAN



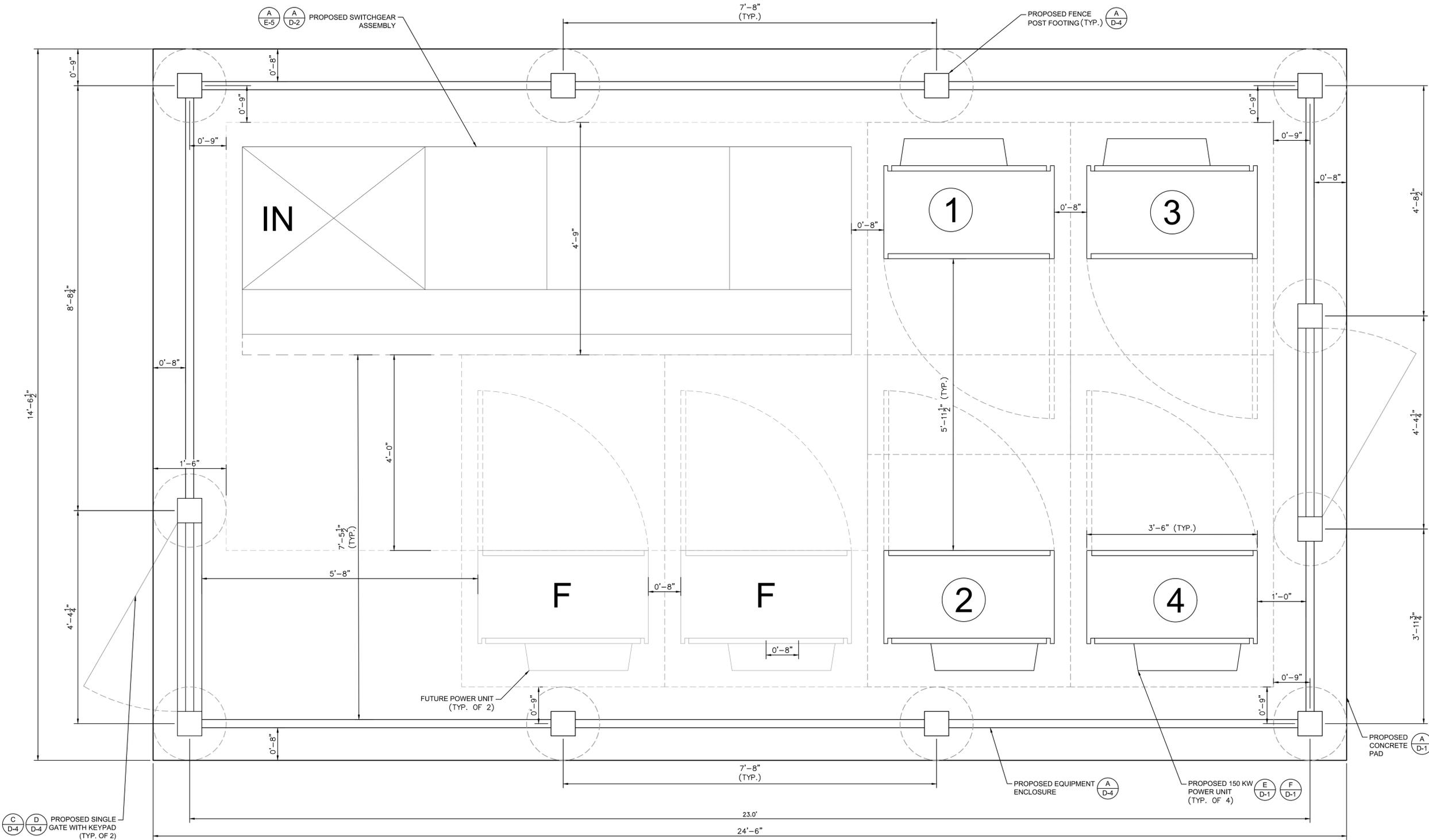
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ENLARGED SITE PLAN



NOTES
 1. CONTRACTOR TO SLOPE PAD 1-2% TO PROVIDE POSITIVE DRAINAGE.



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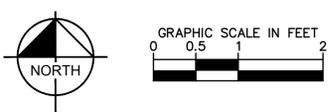
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SHEET DESCRIPTION:
 ENLARGED EQUIPMENT
 LAYOUT



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 09/24/2019 REV#1 CD90 PLAN
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 12/02/2019 REV#3 RFI #1

A ENLARGED EQUIPMENT LAYOUT





**electrify
america**

ELECTRIFY AMERICA, LLC.
2003 EDMUND HALLEY DRIVE
SUITE 200
RESTON, VA 20191

Kimley»Horn

4582 S. ULSTER STREET
SUITE 1500
DENVER, CO 80237
303-288-2300

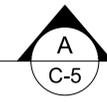
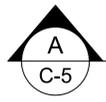
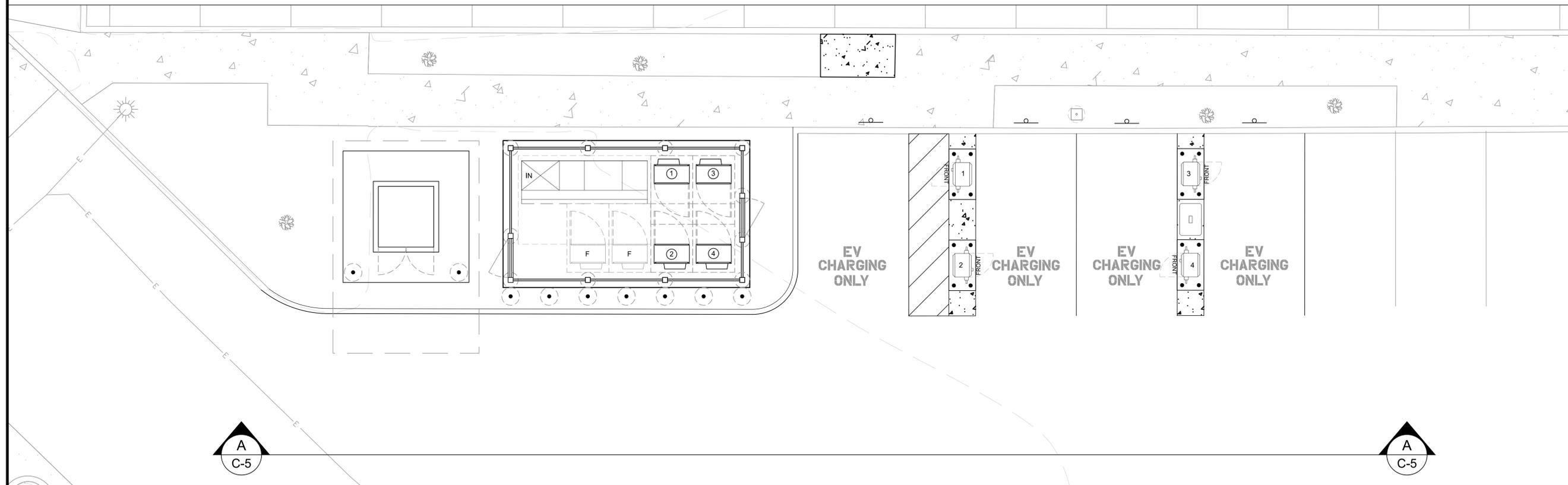
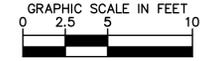
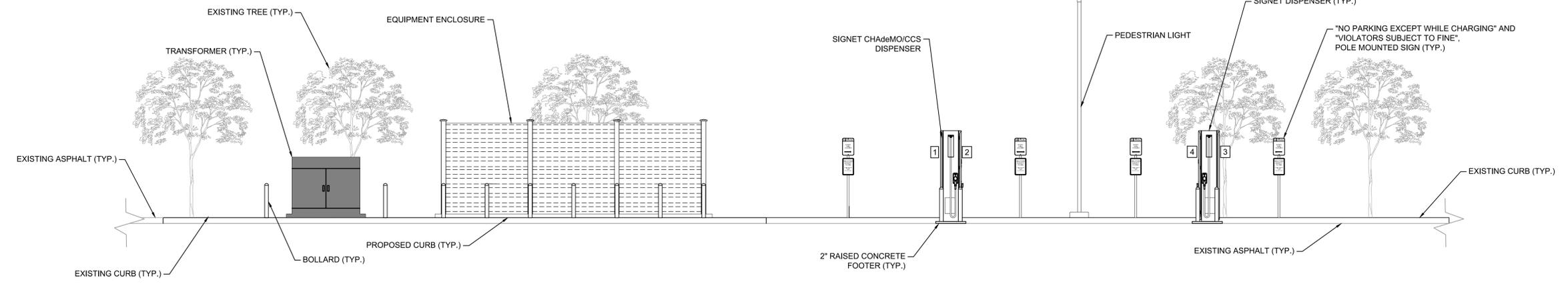
Job Name:
**AURORA
WALMART 1689**

5650 S CHAMBERS RD
AURORA, CO 80015

SHEET DESCRIPTION:
SITE ELEVATIONS

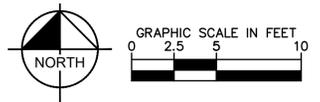


Project #: G0210134
File: CONSTRUCTION DOCUMENTS
Drawn by: JAR
Date(s): 09/19/2019
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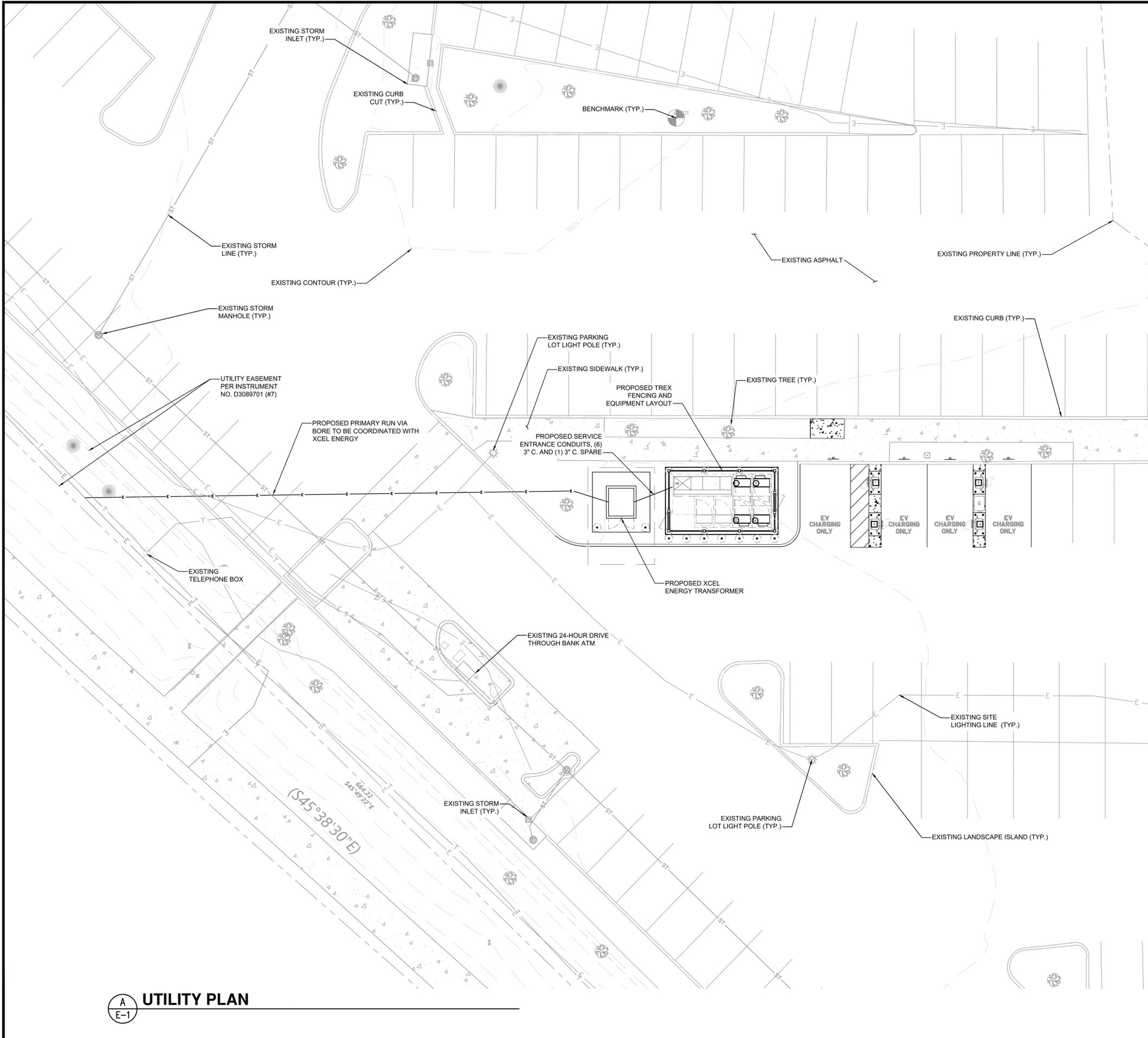


A
C-5
SITE ELEVATIONS

PLAN VIEW INSET FOR REFERENCE ONLY



C-5



A
E-1
UTILITY PLAN

KEYNOTES

1. THE UTILITY DESIGN DETAILS SUMMARIZED ON THIS SHEET ARE FOR PROPERTY OWNER REVIEW. THE CONTRACTOR SHALL REFERENCE THE UTILITY DESIGN PACKAGE (UDP), PROVIDED WITH THE ISSUED FOR CONSTRUCTION DRAWINGS FOR BIDDING. THE CONTRACTOR SHALL INSTALL THE UTILITY RELATED SCOPE OF WORK PER UTILITY CONSTRUCTION SPECIFICATION REQUIREMENTS.
2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK AND TERMINATION OF SERVICE CONDUCTORS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE-CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
3. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATION. ADDITIONAL BOLLARD PROTECTION MAY BE REQUIRED AT THE DISCRETION OF THE UTILITY FIELD INSPECTION PERSONNEL.



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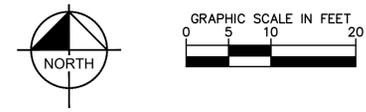
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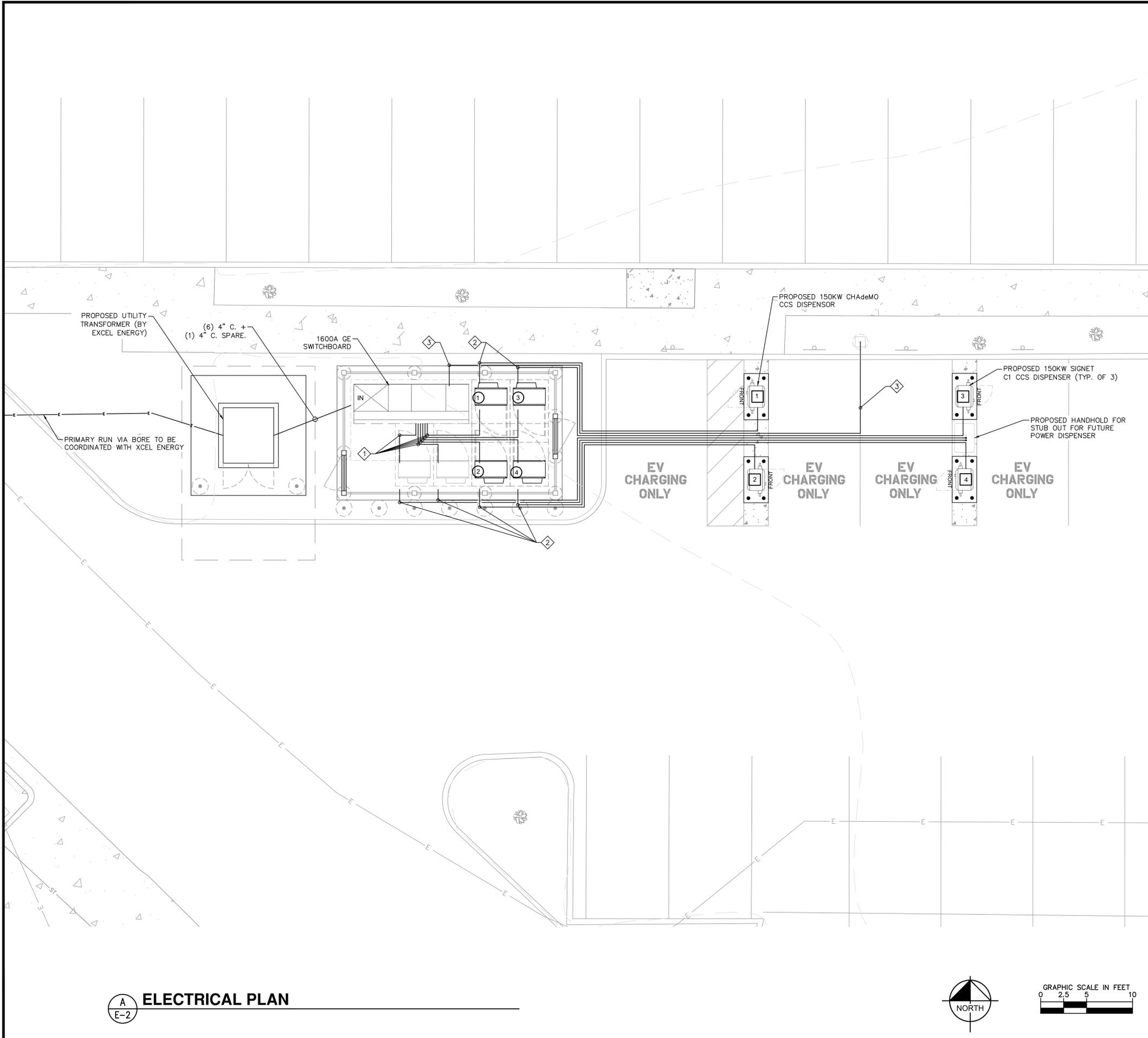
SHEET DESCRIPTION:
UTILITY PLAN



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E-1



PROPOSED DISPENSERS

CHARGE POST NUMBER	150KW	350KW	CABLE TYPE
1	X		CHAdEMO/CCS
2	X		CCS/CCS
3	X		CCS/CCS
4	X		CCS/CCS

POWER UNIT LENGTHS

POWER UNIT	LINEAR LENGTH SWBD TO POWER UNIT	** ESTIMATED LENGTH (FT)
1	10	13
2	10	13
3	15	18
4	15	18
TOTAL ESTIMATED LENGTH		62
TOTAL LENGTH OF WIRE		248

TOTAL LENGTH OF AC WIRE = SUM OF ESTIMATED LENGTH x 4 WIRES PER POWER UNIT
 TOTAL LENGTH GND WIRE = SUM OF ESTIMATED LENGTHS

DC CHARGING POST LENGTHS

POWER UNITS	DISPENSER	LINEAR LENGTH (FT)	*** ESTIMATED LENGTH (FT)
1	1	45	67
2	2	41	63
3	3	63	85
4	4	60	82

GENERAL NOTES

- (SEE SHEET E-3 FOR WIRE CONFIGURATION)
- ** AC CONDUCTOR: 16 FEET IS ADDED TO HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH
 - *** DC CONDUCTORS: 22 FEET IS ADDED TO HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH
- 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.
 - ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ONSITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT TIME OF CONSTRUCTION.
 - UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATIONS.

KEYNOTES

- 1 (1) 3" C.
- 2 (1) 3" C., (1) 3/4" C., (1) 1-1/2" C.
- 3 (1) 3/4" C.



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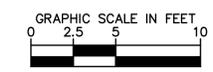
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5650 S CHAMBERS RD
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SHEET DESCRIPTION:
 ELECTRICAL PLAN



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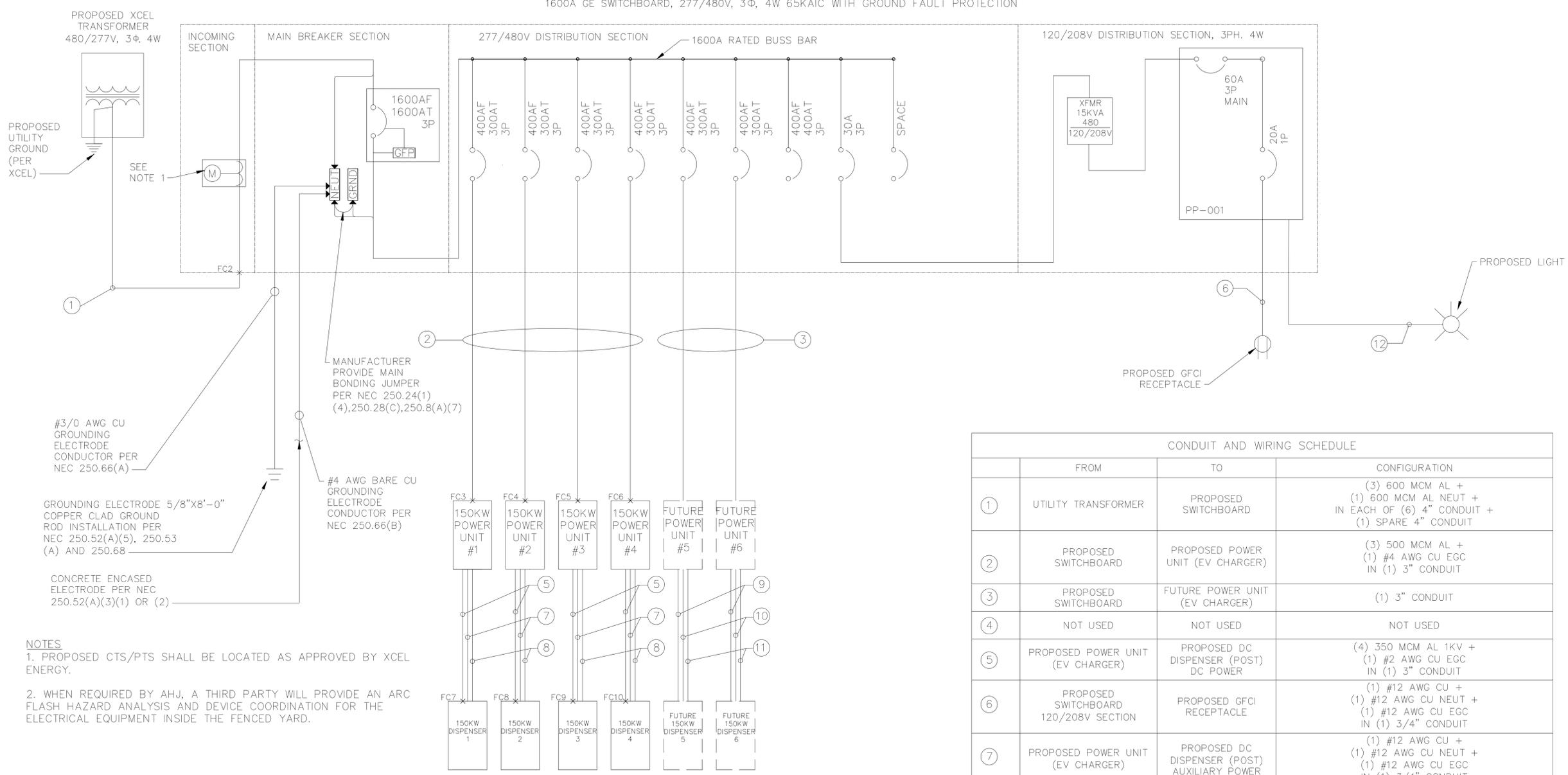
5650 S CHAMBERS RD
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SHEET DESCRIPTION:
SINGLE LINE DIAGRAM



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1600A GE SWITCHBOARD, 277/480V, 3Φ, 4W 65KAIC WITH GROUND FAULT PROTECTION



- NOTES**
- PROPOSED CTS/PTS SHALL BE LOCATED AS APPROVED BY XCEL ENERGY.
 - WHEN REQUIRED BY AHJ, A THIRD PARTY WILL PROVIDE AN ARC FLASH HAZARD ANALYSIS AND DEVICE COORDINATION FOR THE ELECTRICAL EQUIPMENT INSIDE THE FENCED YARD.

CONDUIT AND WIRING SCHEDULE			
	FROM	TO	CONFIGURATION
①	UTILITY TRANSFORMER	PROPOSED SWITCHBOARD	(3) 600 MCM AL + (1) 600 MCM AL NEUT + IN EACH OF (6) 4" CONDUIT + (1) SPARE 4" CONDUIT
②	PROPOSED SWITCHBOARD	PROPOSED POWER UNIT (EV CHARGER)	(3) 500 MCM AL + (1) #4 AWG CU EGC IN (1) 3" CONDUIT
③	PROPOSED SWITCHBOARD	FUTURE POWER UNIT (EV CHARGER)	(1) 3" CONDUIT
④	NOT USED	NOT USED	NOT USED
⑤	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) DC POWER	(4) 350 MCM AL 1KV + (1) #2 AWG CU EGC IN (1) 3" CONDUIT
⑥	PROPOSED SWITCHBOARD 120/208V SECTION	PROPOSED GFCI RECEPTACLE	(1) #12 AWG CU + (1) #12 AWG CU NEUT + (1) #12 AWG CU EGC IN (1) 3/4" CONDUIT
⑦	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) AUXILIARY POWER	(1) #12 AWG CU + (1) #12 AWG CU NEUT + (1) #12 AWG CU EGC IN (1) 3/4" CONDUIT
⑧	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) COMMUNICATION	(1) MULTIMODE FIBER (ST/ST CONN) + (1) 2 CONDUCTOR #16 AWG(TW/SH PAIR) IN (1) 1-1/2" CONDUIT
⑨	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) DC POWER	(1) 3" CONDUIT
⑩	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) AUXILIARY POWER	(1) 3/4" CONDUIT
⑪	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) COMMUNICATION	(1) 1-1/2" CONDUIT
⑫	PROPOSED SWITCHBOARD 120/208V SECTION	PROPOSED LIGHT POLE	(2) #10 AWG CU + (1) #10 AWG CU GND IN (1) 3/4" CONDUIT

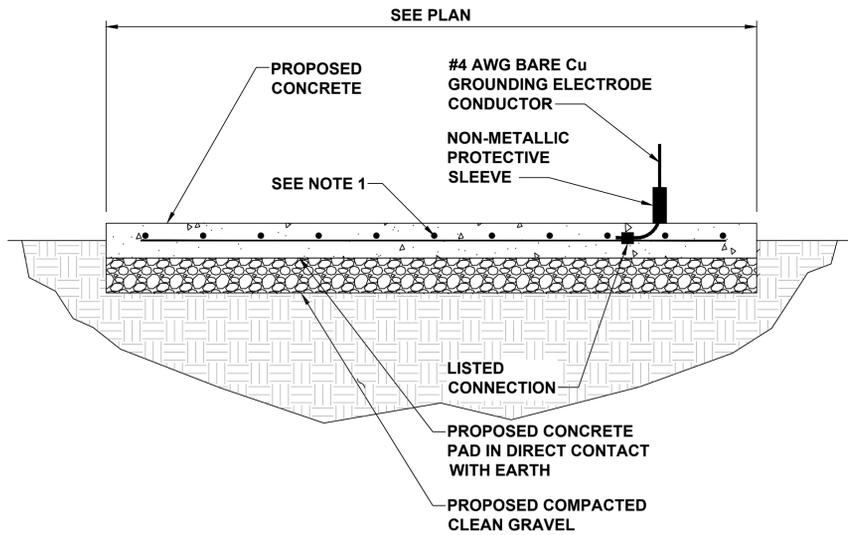
FAULT CURRENT CALCULATIONS														
Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity		Distance	Voltage	Phase	"C" Value	"f" Value	"M" Value	Isc
1	Utility Published Data	33900	33,900											33,900
2	SES	1	33,900	NM	Aluminum	6	Set of 600 KCML	25	480	3	23451	0.02173	0.978728	33,179
3	PU 1	2	33,179	NM	Aluminum	1	Set of 500 KCML	15	480	3	120500	0.01490	0.985315	32,692
4	PU2	2	33,179	NM	Aluminum	1	Set of 500 KCML	20	480	3	120500	0.01987	0.980516	32,532
5	PU3	2	33,179	NM	Aluminum	1	Set of 500 KCML	15	480	3	120500	0.01490	0.985315	32,692
6	PU 4	2	33,179	NM	Aluminum	1	Set of 500 KCML	20	480	3	120500	0.01987	0.980516	32,532
7	Disp 1	3	32,692	NM	Aluminum	1	Set of 350 KCML	60	920	1	16813	0.12681	0.887461	29,013
8	Disp 2	4	32,532	NM	Aluminum	1	Set of 350 KCML	45	920	1	16813	0.09464	0.913539	29,720
9	Disp 3	5	32,692	NM	Aluminum	1	Set of 350 KCML	50	920	1	16813	0.10568	0.904425	29,567
10	Disp 4	6	32,532	NM	Aluminum	1	Set of 350 KCML	40	920	1	16813	0.08413	0.9224	30,008

SIGNET POWER UNITS		
AVAILABLE FAULT CURRENT BY LOCATION	REACTOR RESULT	AVAILABLE FAULT CURRENT PROVIDED BY UTILITY
AFC @ TRANSFORMER	AWAITING UTILITY INPUT	25KA OR LOWER NO REACTORS REQUIRED

LOAD SUMMARY			
	KVA	QTY	TOTAL KVA
150KW POWER UNIT	150 KVA	4	600
FUTURE 150KW	150 KVA	2	300
	25% CONTINUOUS DUTY		225
	15 KVA TRANSFORMER		15
	TOTAL		1,140
	AMPS (480V, 3-PH)		1,372A

NOTE

1. REBAR BONDED TOGETHER WITH STEEL TIE WIRES OR EXOTHERMIC WELDING



A CONCRETE ENCASED ELECTRODE DETAIL
N.T.S.

CADWELD CONNECTIONS
OR ENGINEER APPROVED EQUAL

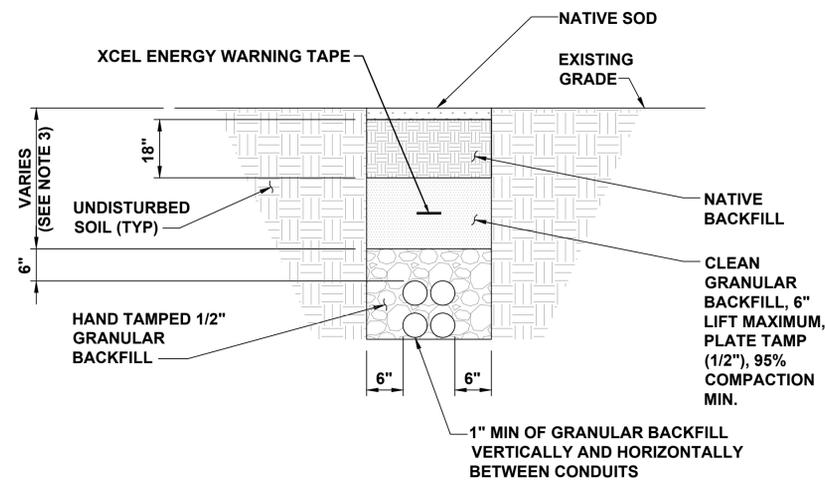
<p>CABLE TO REBAR TEE CONNECTION HORIZONTAL CABLE TAP TO VERTICAL REBAR TYPE RJ</p>	<p>HORIZONTAL SPLICE SPLICE OF HORIZONTAL CABLES TYPE SS</p>	<p>PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT</p>
<p>BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2</p>	<p>VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS</p>	<p>VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS</p>
<p>COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2</p>	<p>HORIZONTAL TEE TEE OF HORIZONTAL RUN AND TAP CABLES TYPE TA</p>	<p>THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT</p>

B CADWELD CONNECTION DETAIL
N.T.S.

NOTES:

1. 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.
2. 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.
3. 2014 NEC 250.121 EXCEPTION: A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN COMPLIANCE WITH 250.6(A) AND THE APPLICABLE REQUIREMENTS FOR BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR IN PARTS II, III, AND VI OF THIS ARTICLE SHALL BE PERMITTED TO SERVE AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR.

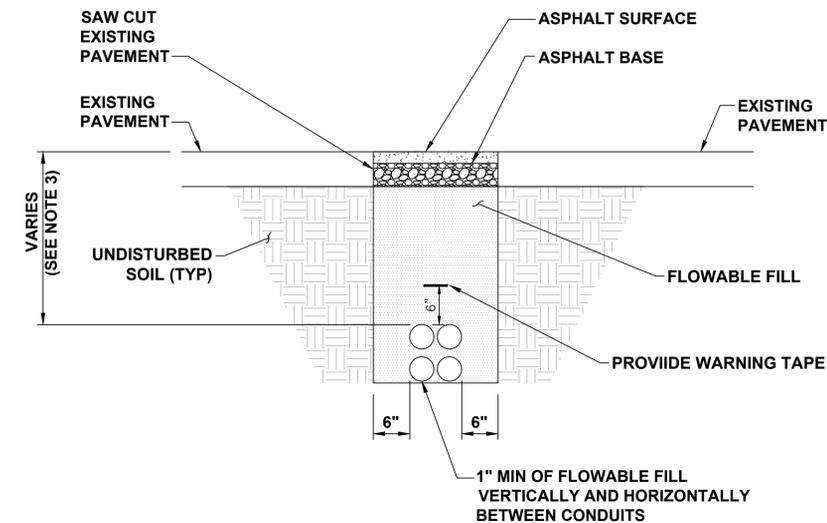
C GROUNDING NOTES
N.T.S.



NOTES

1. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
4. EXACT NUMBER OF CONDUITS SHALL BE DETERMINED BY SHEET E-1 & E-2, EXACT CONDUIT PLACEMENT IN TRENCH SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.

D TYPICAL NON-UTILITY CONDUIT UNDER SOIL TRENCH
N.T.S.



NOTES

1. ASPHALT SHALL COMPLY WITH STANDARD DOT OR LOCAL JURISDICTION SPEC. FOR HMA SURFACE COURSE.
2. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
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E TYPICAL NON-UTILITY CONDUIT UNDER ASPHALT TRENCH
N.T.S.

F DETAIL NOT USED
N.T.S.



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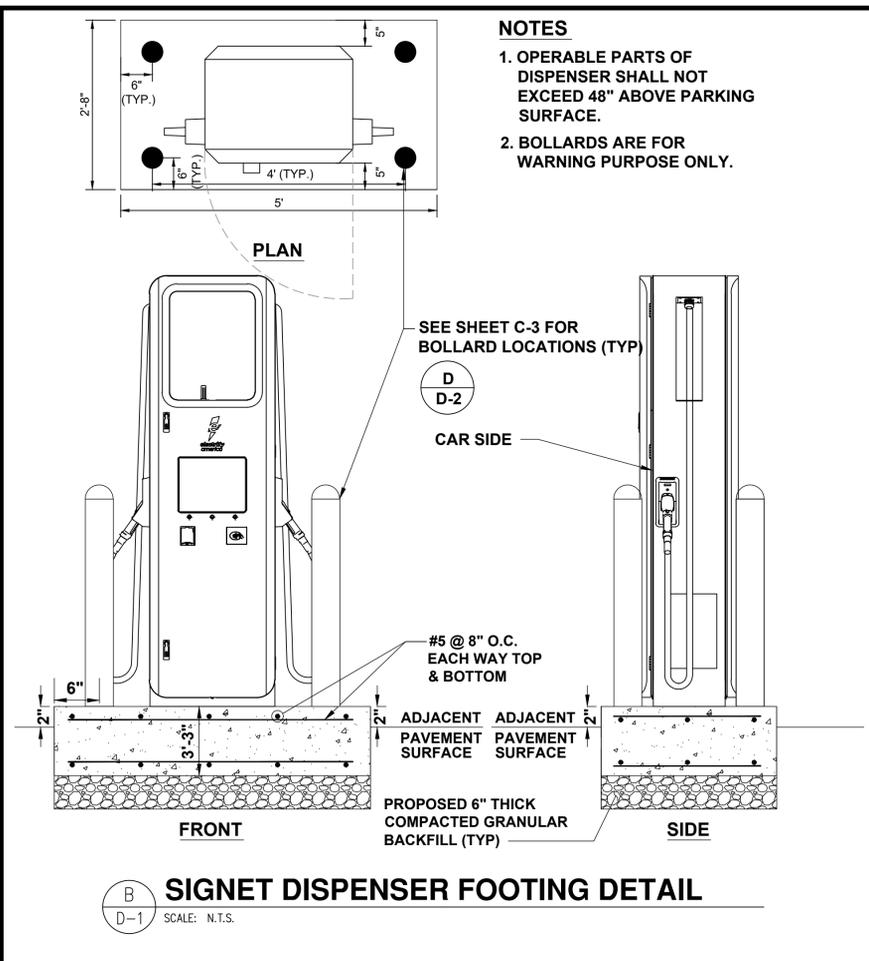
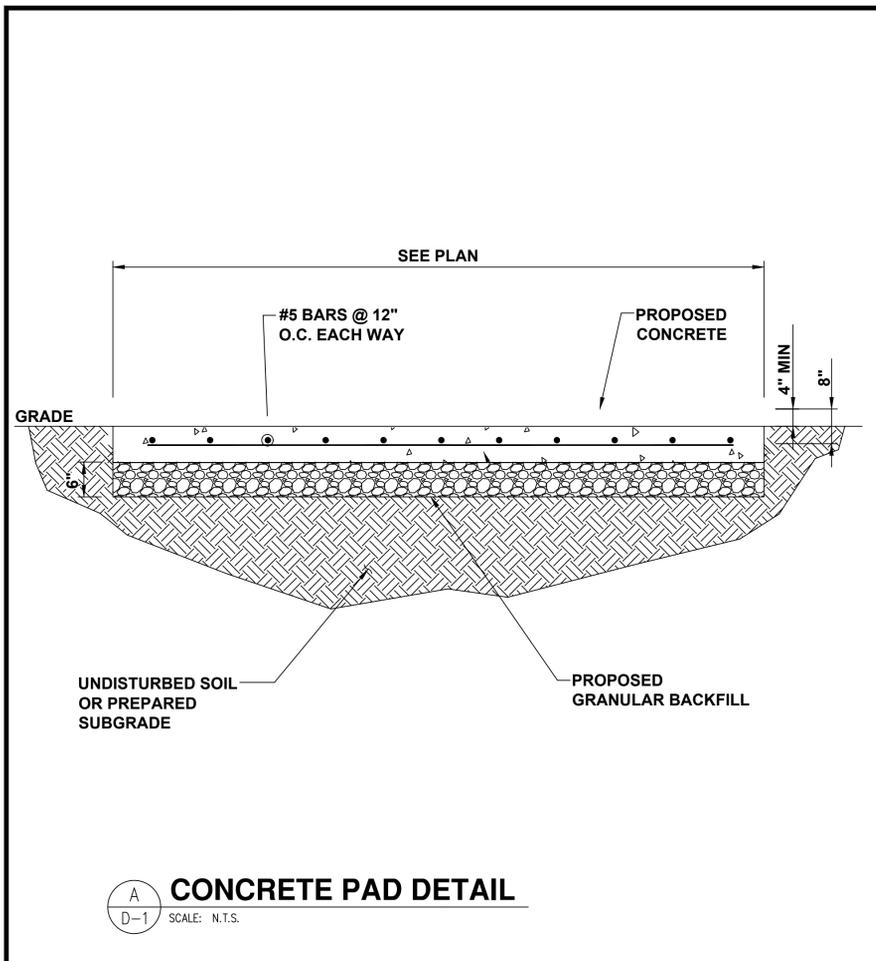
5650 S CHAMBERS RD
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SHEET DESCRIPTION:
ELECTRICAL DETAILS

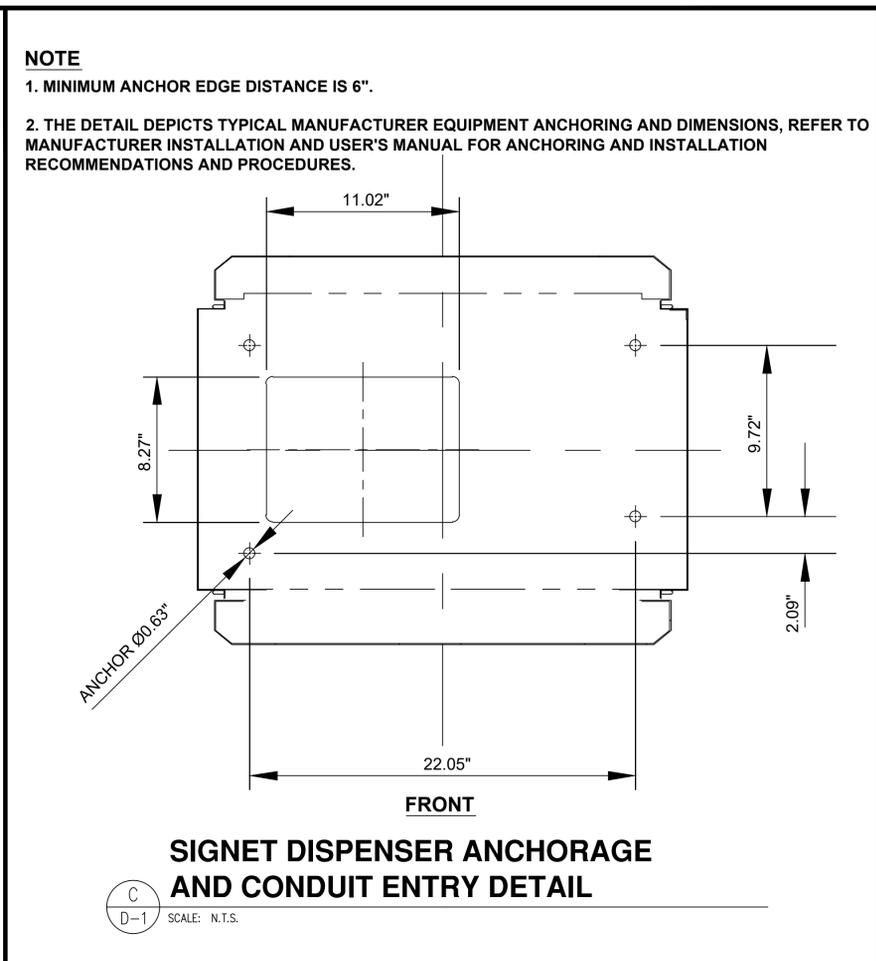


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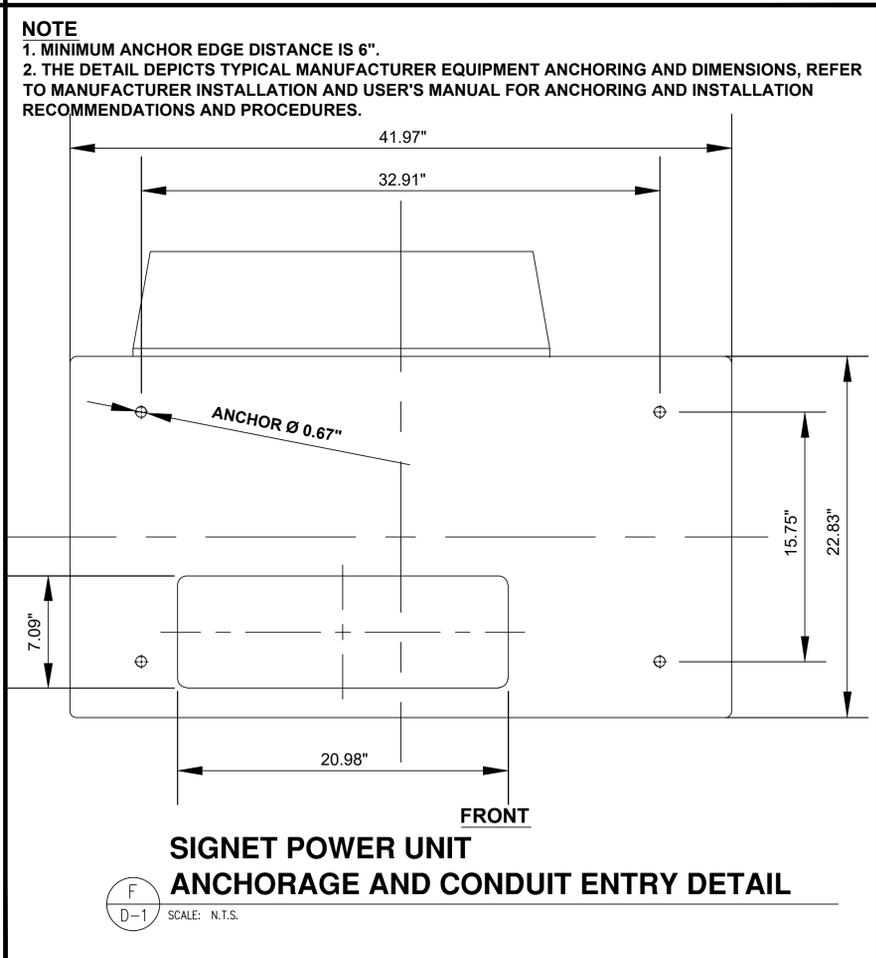
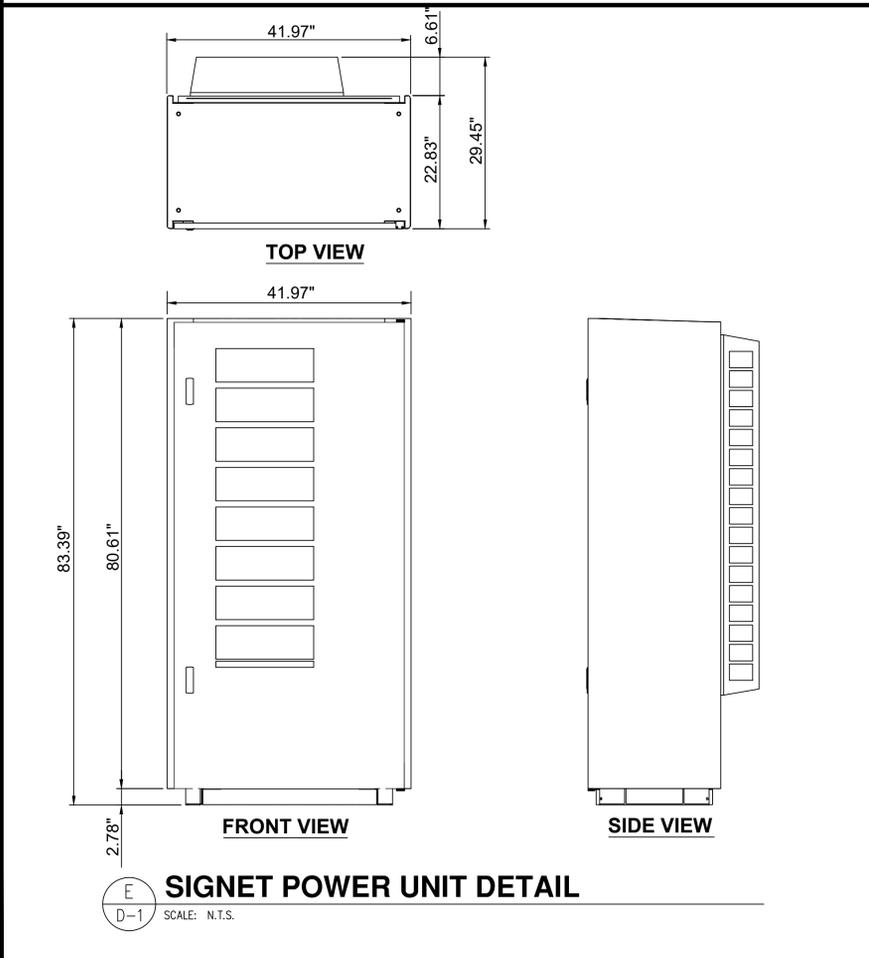
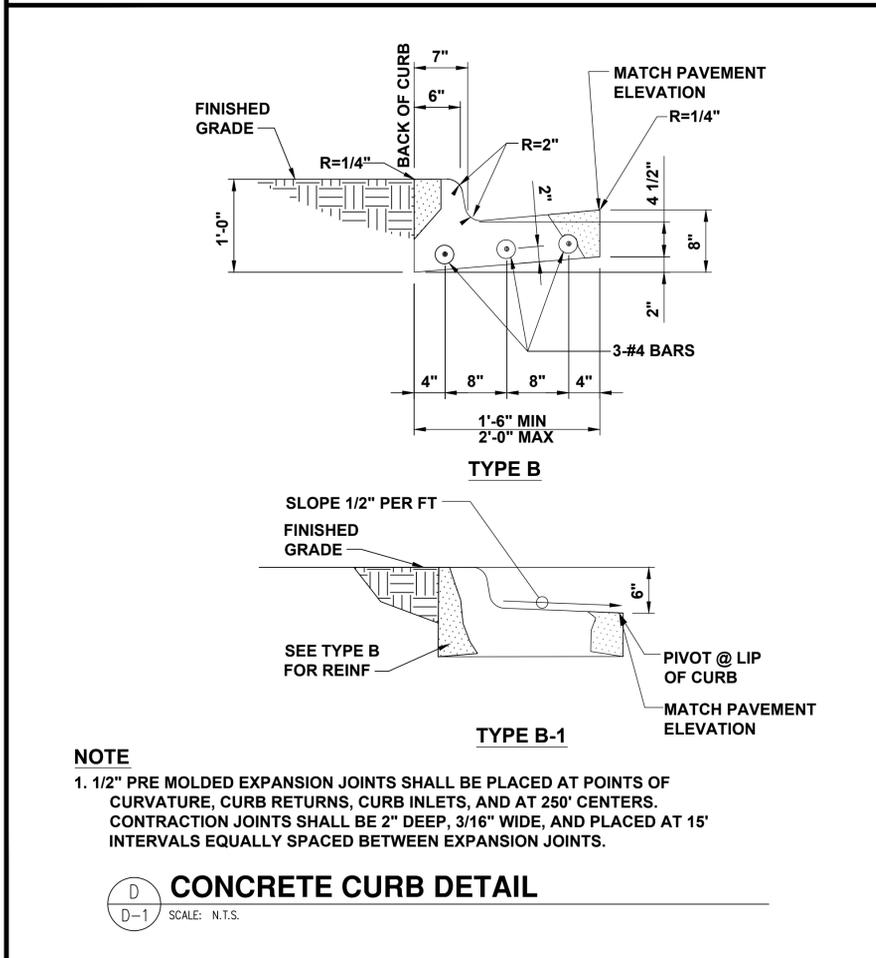
E-4



- NOTES**
- OPERABLE PARTS OF DISPENSER SHALL NOT EXCEED 48" ABOVE PARKING SURFACE.
 - BOLLARDS ARE FOR WARNING PURPOSE ONLY.



- NOTE**
- MINIMUM ANCHOR EDGE DISTANCE IS 6".
 - THE DETAIL DEPICTS TYPICAL MANUFACTURER EQUIPMENT ANCHORING AND DIMENSIONS, REFER TO MANUFACTURER INSTALLATION AND USER'S MANUAL FOR ANCHORING AND INSTALLATION RECOMMENDATIONS AND PROCEDURES.



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DETAILS

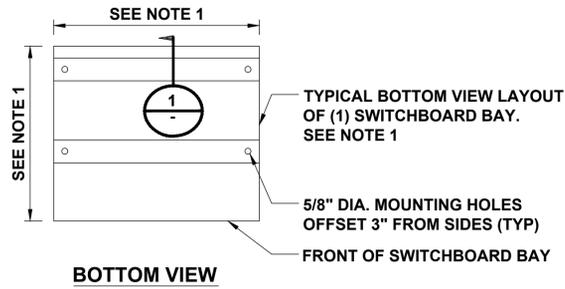


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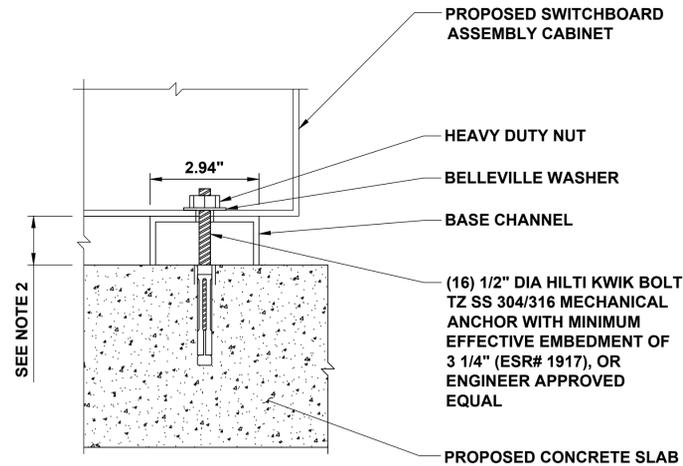


NOTES

- SEE FLOOR PLAN IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR MOUNTING HOLE LOCATION AND SWITCHBOARD BAY DIMENSIONS.
- SEE ELEVATION IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR BASE CHANNEL DIMENSION.
- MINIMUM 10 1/2" CONCRETE EDGE DISTANCE REQUIRED FOR PROPOSED ANCHORAGE.



BOTTOM VIEW

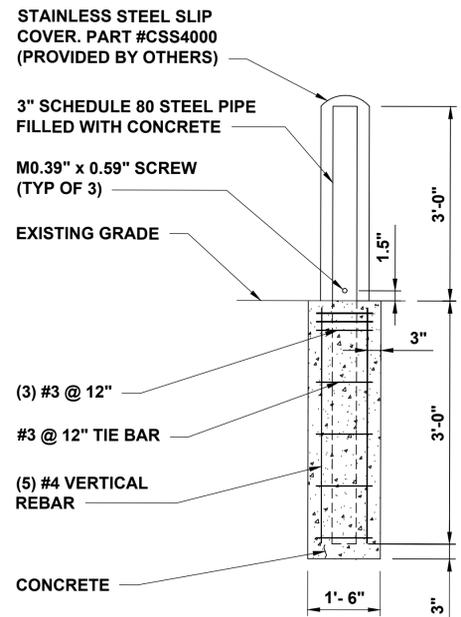


SECTION 1

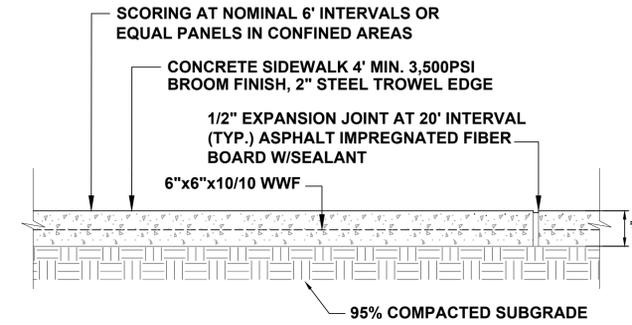
A SWITCHBOARD MOUNTING DETAIL
SCALE: N.T.S.

NOTES

- BOLLARD IS FOR WARNING PURPOSES ONLY.
- BOLLARD DETAIL FOR BOLLARDS AROUND ELECTRIFY AMERICA EQUIPMENT.
- CONTRACTOR TO PROVIDE (2) 6' LONG, 1/2" THICK FOAM STRIPS CROSSED OVER TOP OF STEEL PIPE TO STABILIZE SLIP COVER.



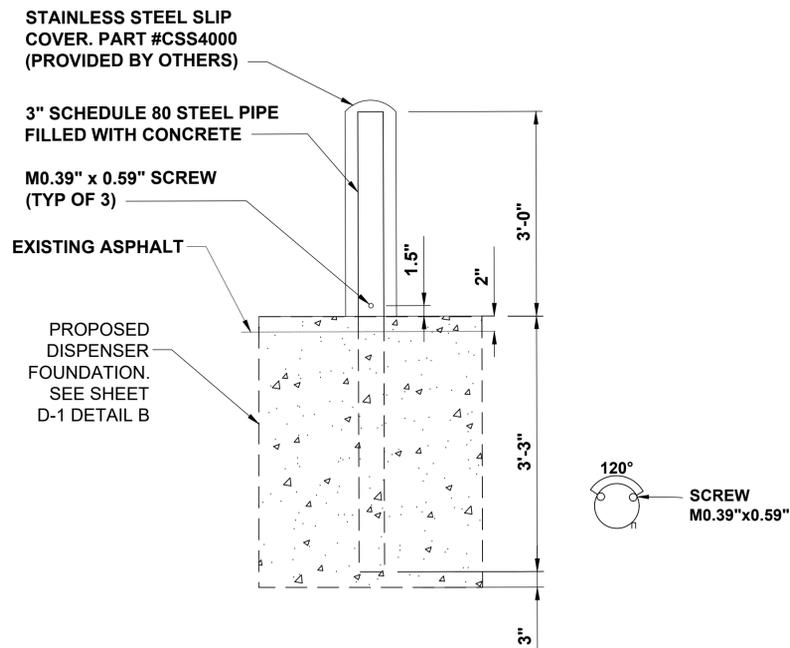
B WARNING BOLLARD DETAIL
SCALE: N.T.S.



C TYPICAL SIDEWALK DETAIL
SCALE: N.T.S.

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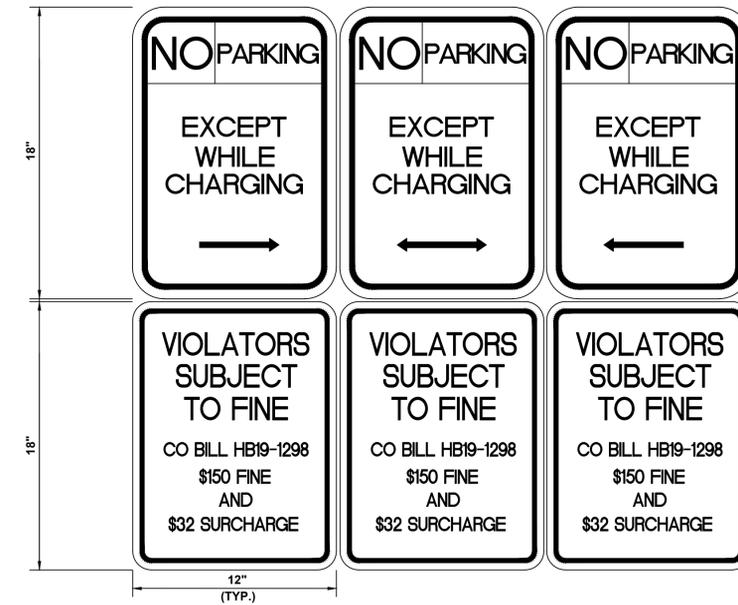


D DISPENSER WARNING BOLLARD DETAIL
SCALE: N.T.S.

E NOT USED
SCALE:

NOTES

- BOTTOM OF LOWEST SIGN SHALL BE INSTALLED 66" ABOVE GRADE.



F NO PARKING SIGN
SCALE:



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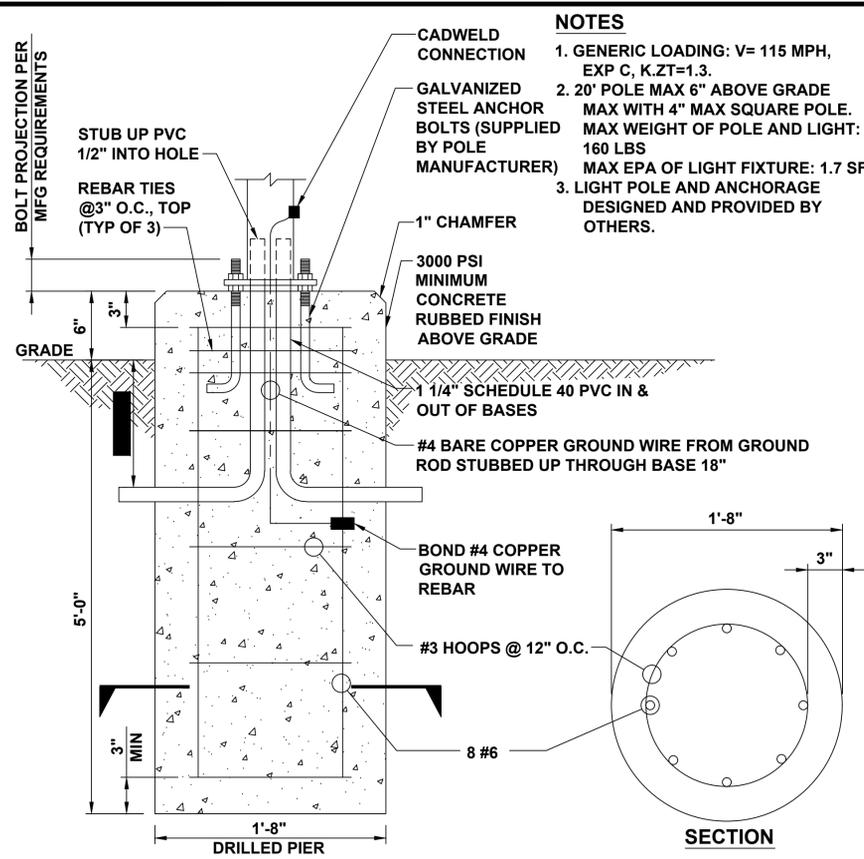
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D-2

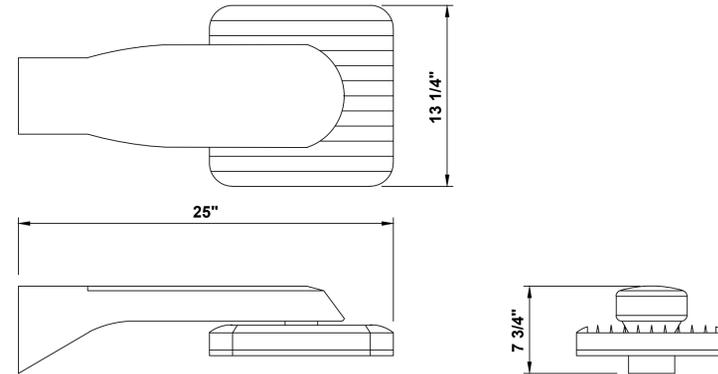


NOTES

1. GENERIC LOADING: V= 115 MPH, EXP C, K.ZT=1.3.
2. 20' POLE MAX 6" ABOVE GRADE MAX WITH 4" MAX SQUARE POLE. MAX WEIGHT OF POLE AND LIGHT: 160 LBS. MAX EPA OF LIGHT FIXTURE: 1.7 SF
3. LIGHT POLE AND ANCHORAGE DESIGNED AND PROVIDED BY OTHERS.

LITHONIA LIGHTING/ KAX LED SIZE 1 LED AREA LUMINAIRE
LITHONIA KAX1 LED P1 30K R3 MVOLT RPA DBLXD
PHOTOCELL: DLL127F 1.5 JU

LITHONIA LIGHTING ANCHOR BASE POLE
RSS 15 4-5B DM19AS DBL



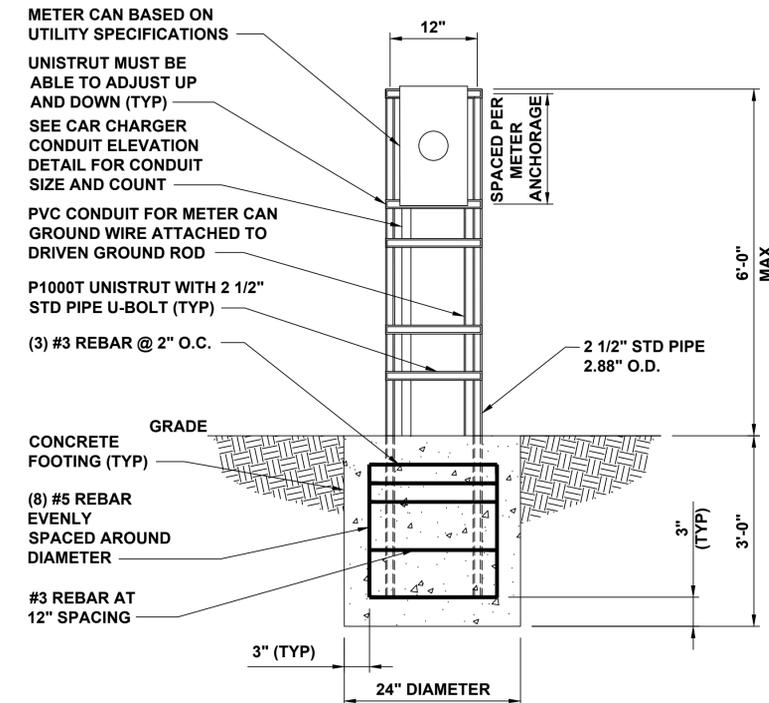
B PEDESTRIAN LIGHT FIXTURE

SCALE: N.T.S.

STANDALONE CUSTOMER PROVIDED TUV INSTRUMENT RATED METER CAN ON UNISTRUT SUPPORT

NOTE

1. GENERIC LOADING: V=115 MPH, EXP C, KZ=0.85, SS=3.73g, SITE CLASS=D, SDS=2.64, (2) 1-1/4" CONDUIT, METER MAX WIND AREA = 540 SQ IN.



C STANDALONE METER CAN UNISTRUT SUPPORT

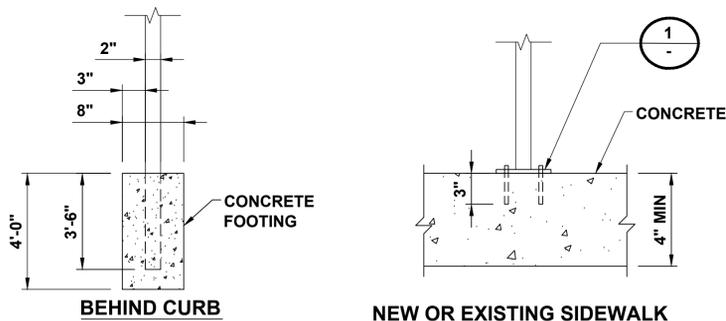
SCALE:

NOTES

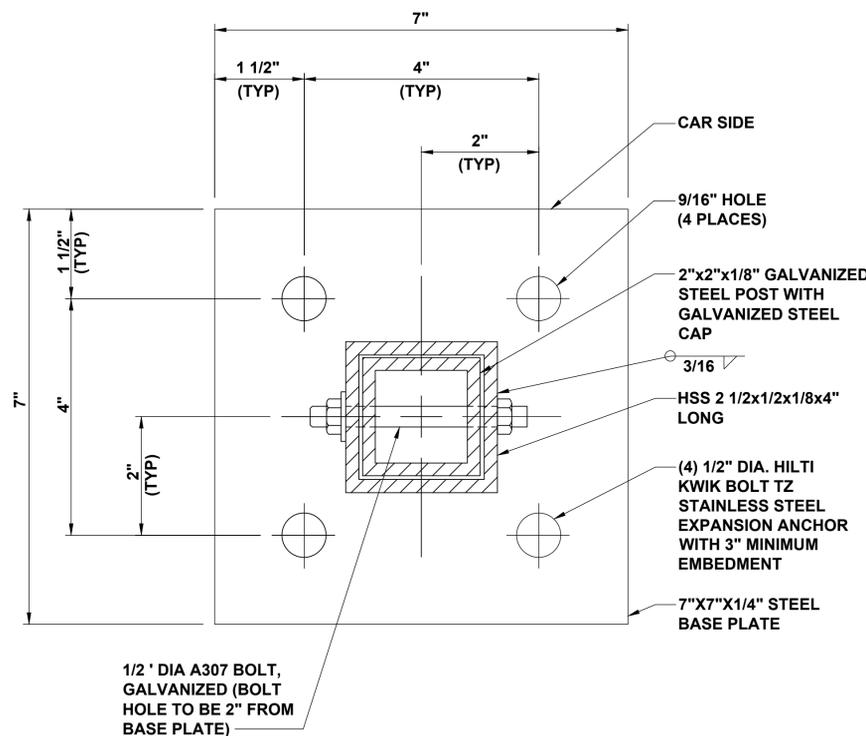
1. CONTRACTOR TO SELECT CONCRETE FOOTING OR BOLT DOWN BASED ON EXISTING CONDITIONS.
2. SEE SHEET C-3 FOR PLACEMENT.
3. BOTTOM OF LOWEST SIGN TO BE INSTALLED 66" ABOVE GRADE.
4. ADDITIONAL PARKING SIGNS TO BE INSTALLED 2" ABOVE TOP OF PREVIOUS SIGN.
5. SIGN, SIGN POST, AND SIGN FASTENERS TO BE PROVIDED BY CONTRACTOR. CONTRACTOR TO PROVIDE SIGN POST FASTENERS IF REQUIRED AND PAINTED TO MATCH.
6. IF PAINT FINISH IS DAMAGED DURING INSTALLATION, CONTRACTOR SHALL REPAINT AS REQUIRED.

BOLT DOWN BASE PLATE NOTES

1. CONTRACTOR TO PROVIDE AND INSTALL SIGN POST, BASE PLATE ASSEMBLY, EXPANSION ANCHORS, AND 1/2" DIA A307 BOLT.
2. BASE PLATE ASSEMBLY TO BE HOT DIPPED GALVANIZED. PAINT TO MATCH SIGN POST.
3. PROVIDE 1/4" DIA. DRAIN HOLE TO PREVENT WATER FROM COLLECTING IN HSS.



1 SIGN POST INSTALLATION DETAIL



BASE PLATE DETAIL -DETAIL 1

D NOT USED

SCALE: N.T.S.

D SIGN POST INSTALLATION DETAIL

SCALE:

B NOT USED

SCALE: N.T.S.



ELECTRIFY AMERICA, LLC.
2003 EDMUND HALLEY DRIVE
SUITE 200
RESTON, VA 20191



4582 S. ULSTER STREET
SUITE 1500
DENVER, CO 80237
303-286-2300

Job Name:
AURORA WALMART 1689

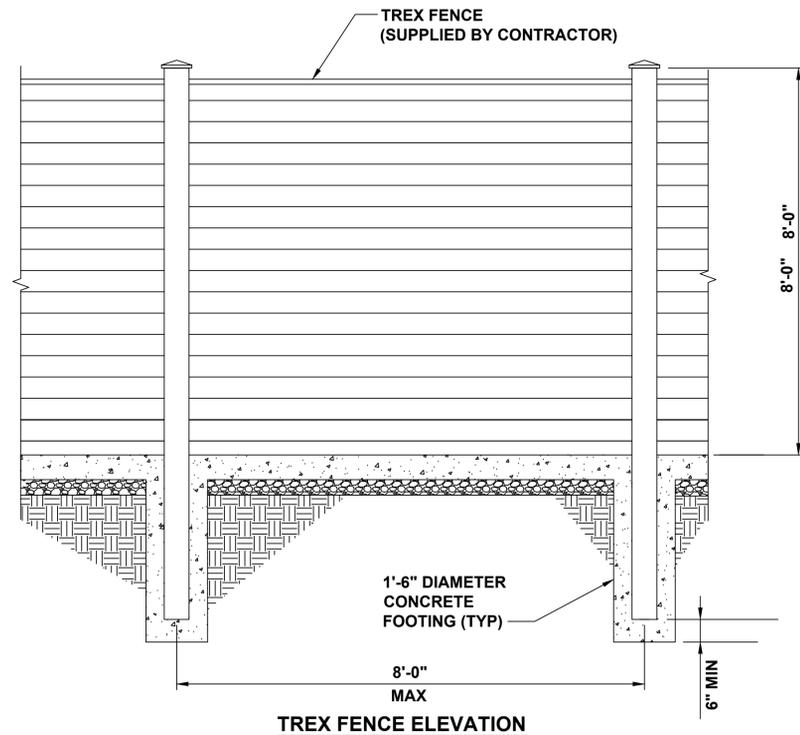
5650 S CHAMBERS RD
AURORA, CO 80015

SHEET DESCRIPTION:
DETAILS

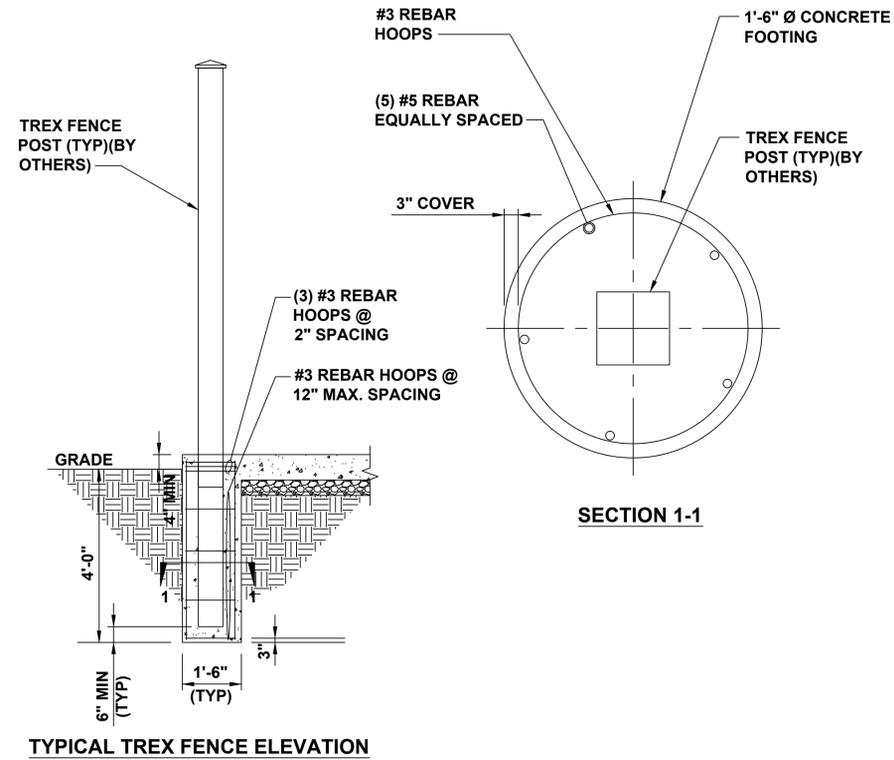


Project #: CC210134
File: CONSTRUCTION DOCUMENTS
Drawn by: JAR
Date(s): 09/19/2019
09/24/2019 REV#1 CD90 PLAN
10/08/2019 REV#2 CD100 PLAN
12/02/2019 REV#3 RFI #1

NOTES:
1. COLOR: WINCHESTER GREY

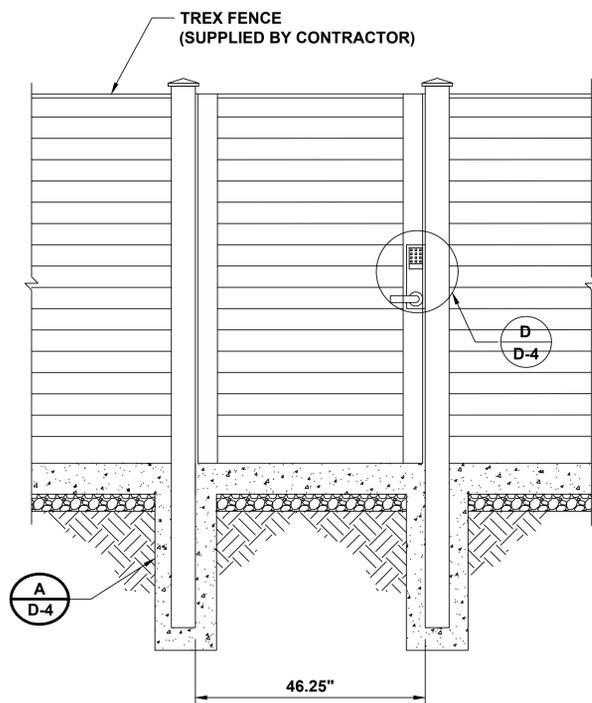


A
D-4
TYPICAL TREX FENCE DETAIL
SCALE: N.T.S.

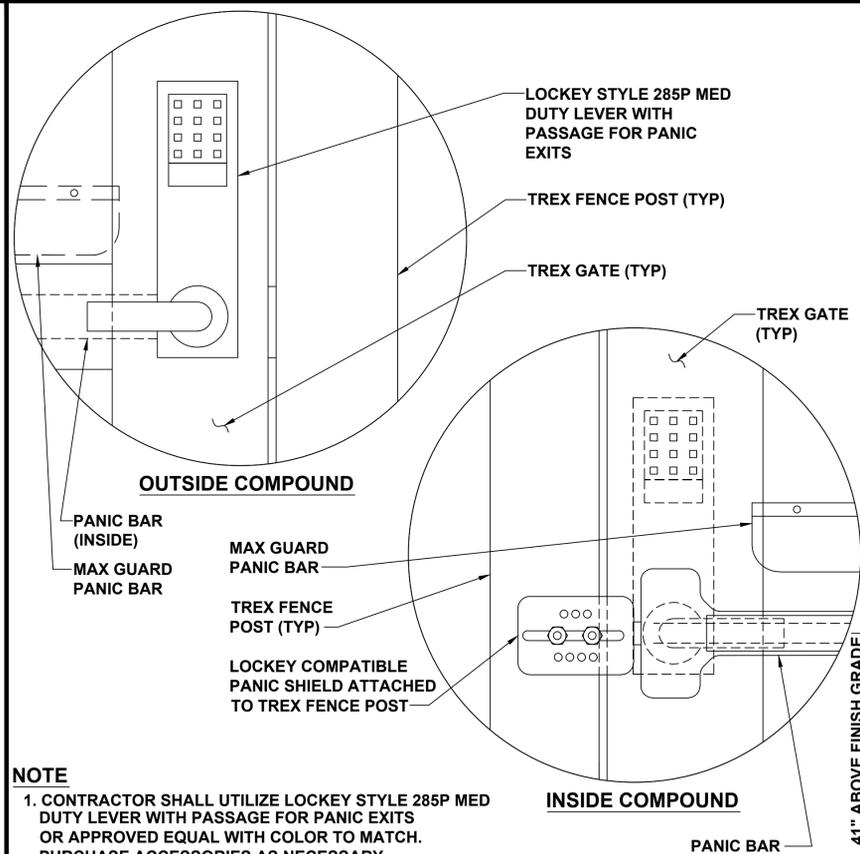


TYPICAL TREX FENCE ELEVATION

B
D-4
NOT USED
SCALE: N.T.S.



C
D-4
SINGLE GATE DETAIL
SCALE: N.T.S.



NOTE
1. CONTRACTOR SHALL UTILIZE LOCKEY STYLE 285P MED DUTY LEVER WITH PASSAGE FOR PANIC EXITS OR APPROVED EQUAL WITH COLOR TO MATCH. PURCHASE ACCESSORIES AS NECESSARY.

D
D-4
LOCK DETAIL WITH KEYPAD
SCALE: N.T.S.

E
D-4
NOT USED
SCALE: N.T.S.



electrify america

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AURORA, CO 80015

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DETAILS

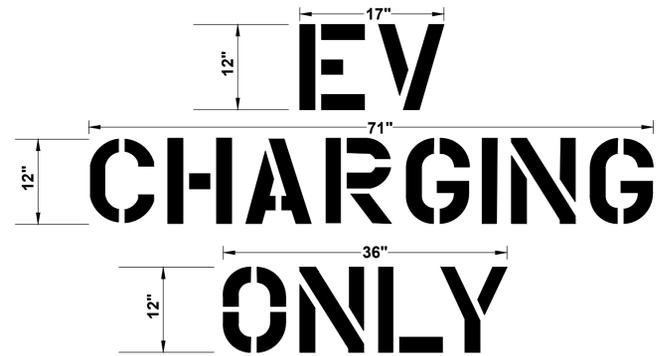


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D-4

NOTES

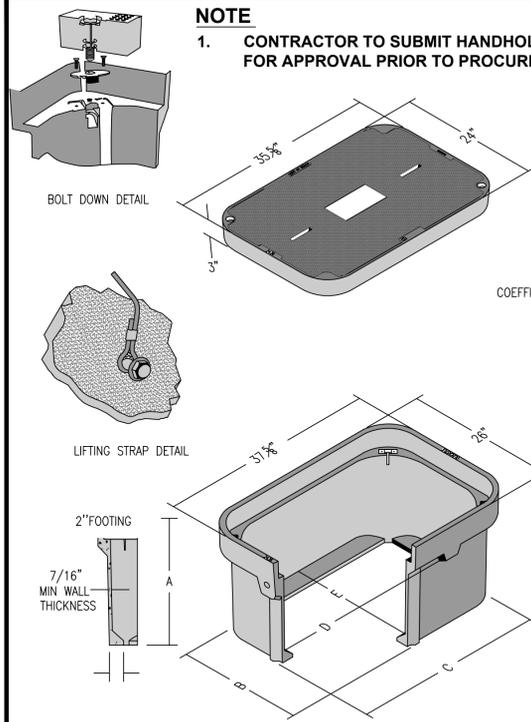
1. BOTTOM OF STENCIL TO BE PLACED AT THE LEADING EDGE OF THE PROPOSED PARKING STALL
2. STENCIL TO FIT WITHIN DIMENSIONS SHOWN
3. PAVEMENT MARKING TO BE PAINTED WHITE



A EV PAVEMENT MARKING DETAIL
D-5 SCALE: N.T.S.

NOTE

1. CONTRACTOR TO SUBMIT HANDHOLE DETAIL TO ELECTRIFY AMERICA FOR APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION



COVER:
 STYLE: FLUSH SOLD
 MATERIAL: POLYMER CONCRETE
 MODEL: 24"x30"
 WEIGHT: TIER 15: 150 LBS
 TIER 22: 204 LBS
 STD.FASTENERS: 1/2-13 STAINLESS STEEL HEX HEAD BOLT, WASHER AND FLOATING NUT
 OPTIONS: LOGOS AND SPECIAL MARKINGS
 SURFACE: SLIP RESISTANT & MARKED*
 COEFFICIENT OF FRICTION: >0.6ASTM 1028
 PERFORMANCE: ANSI/SCTE-77 TIER 15, WUC 3.6
 ASTM C857A-12
 ANSI/SCTE-77 TIER22, WUC3.6,
 ASTM C857A-16

BODY:
 MATERIAL: POLYMER CONCRETE
 MODEL: 24"x36"
 WEIGHT: 18" DEPTH: 142LBS
 24" DEPTH: 175LBS
 36" DEPTH: 242LBS
 WALL TYPE: STRAIGHT
 PERFORMANCE: ANSI/SCTE-77 TIER22, WUC3.6,
 ASTM C857A-16

	A	B	C	D	E
2436-18	18	23-5/8	35-1/4	33-3/15	21-9/16

MEDIUM DUTY:
NON-DELIBERATE TRAFFIC

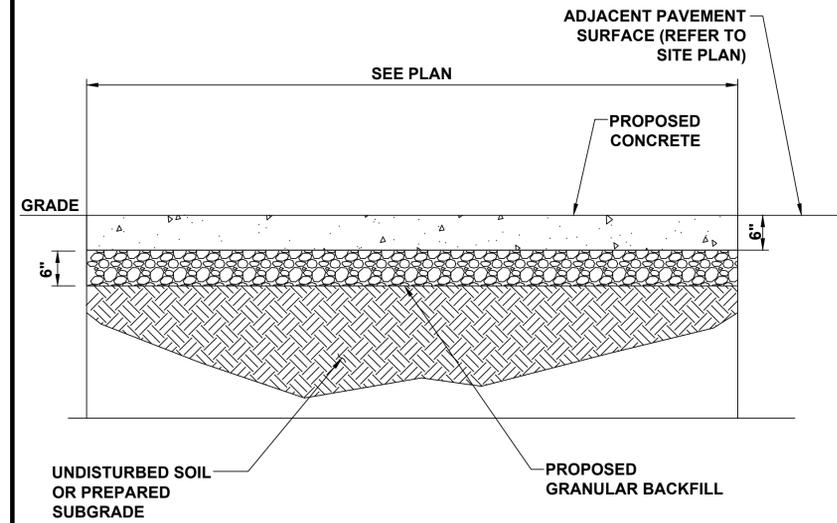
HEAVY DUTY:INCIDENTA,
NON-DELIBERATE TRAFFIC

FOR USE IN NON-VEHICULAR TRAFFIC

B HANDHOLE DETAIL
D-5 SCALE: N.T.S.

NOTE

1. REFER TO REINFORCED CONCRETE NOTE FOR CONCRETE REQUIREMENTS



C PARKING LOT CONCRETE DETAIL
D-5 SCALE: N.T.S.



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SHEET DESCRIPTION:
 D-5 - DETAILS



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D NOT USED
D-5 SCALE: N.T.S.

E NOT USED
D-5 SCALE: N.T.S.

F NOT USED
D-5 SCALE: N.T.S.

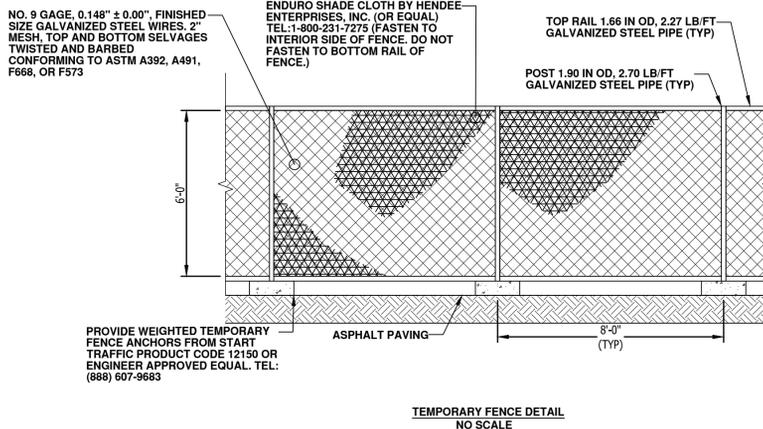
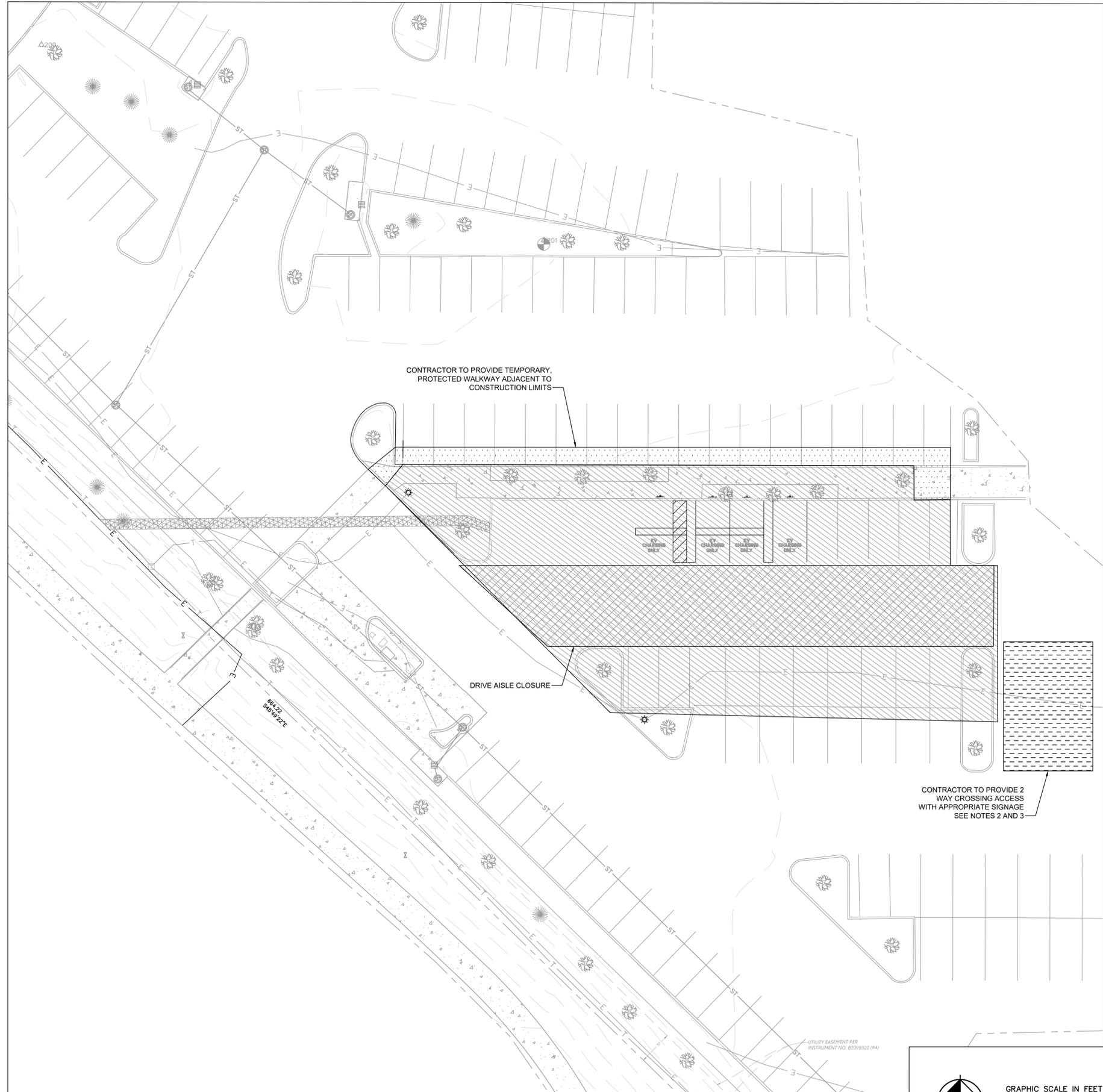


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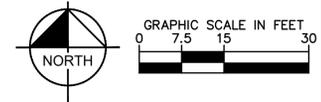
1. WORK / STAGING AREA TO BE CONFIRMED AT PRE-CONSTRUCTION SITE MEETING AND SURROUNDED BY TEMPORARY FENCE DURING CONSTRUCTION.
2. POSSIBLE LOCATION FOR TEMPORARY DRIVE AISLE CLOSURE DURING CONSTRUCTION.
3. CONTRACTOR TO PROVIDE TEMPORARY SIGNS TO DIRECT TRAFFIC FLOW.
4. SHORT TERM FENCING TO BE PROVIDED OUTSIDE OF TEMPORARY FENCE FOR ANY OPEN TRENCHES LEFT OVER NIGHT OR UNATTENDED.
5. THE CONTRACTOR SHALL RETURN SIDEWALKS, LANDSCAPING, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITION THAN EXISTED PRIOR TO THE COMMENCEMENT OF THE WORK.

LEGEND

-  WORKING/STAGING AREA
-  DRIVE AISLE CLOSURE
-  UTILITY LINE TO BE BORED (OUTSIDE OF WORKING/STAGING AREA)
-  UTILITY LINE TO BE TRENCHED (OUTSIDE OF WORKING/STAGING AREA)



STAGING PLAN



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