



CO200026 AURORA
INSTALLATION OF ELECTRIC VEHICLE CHARGING EQUIPMENT
WALMART 1492
14000 E. EXPOSITION AVE.
AURORA, CO 80012



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



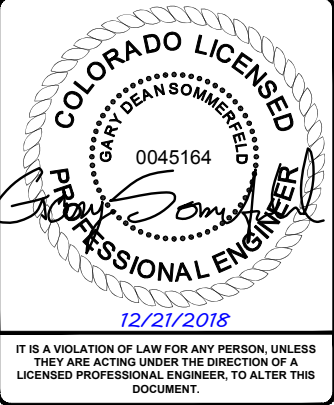
BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

SITE INFORMATION		AREA MAP	LOCATION MAP	PROJECT DESCRIPTION																																																												
<div>EV SITE ADDRESS: 14000 E. EXPOSITION AVE. AURORA, CO 80012</div> <div>PROPERTY OWNER: WALMART REAL ESTATE BUSINESS TRUST.</div> <div>EQUIPMENT SUPPLIER: ELECTRIFY AMERICA, LLC. 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON, VIRGINIA 20191</div> <div>POWER COMPANY: XCEL ENERGY JEREMY VAN DENACK (720) 240-5255</div> <div>COUNTY: ARAPAHOE</div> <div>LATITUDE (NAD83): 39° 42' 11.60" N 39.703209°</div> <div>LONGITUDE (NAD83): 104° 49' 32.40" W -104.825657°</div> <div>CONTACT ENGINEER: RUSSELL POLLOM (913) 458-6274 POLLOMRE@BV.COM</div>				<ul style="list-style-type: none">• INSTALL (1) UTILITY TRANSFORMER• INSTALL (1) UTILITY METER• INSTALL (1) SWITCHBOARD ASSEMBLY• INSTALL (3) 150KW BTC POWER UNITS• INSTALL (3) 150KW BTC DISPENSERS• INSTALL (1) LEVEL 2 CHARGER																																																												
APPLICABLE CODES		DRAWING INDEX																																																														
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: <div>2015 INTERNATIONAL BUILDING CODE (IBC) 2015 INTERNATIONAL RESIDENTIAL CODE (IRC) 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2015 INTERNATIONAL FUEL GAS CODE (IFGC) 2015 INTERNATIONAL PLUMBING CODE (IPC) 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2015 INTERNATIONAL MECHANICAL CODE (IMC) 2017 NATIONAL ELECTRIC CODE (NEC) 2015 INTERNATIONAL FIRE CODE</div> <div>IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.</div>		<table><tr><th>SHEET NO:</th><th>SHEET TITLE</th><th>REV NO:</th></tr><tr><td>T-1</td><td>TITLE SHEET & PROJECT DATA</td><td>1</td></tr><tr><td>GN-1</td><td>GENERAL NOTES 1</td><td>0</td></tr><tr><td>GN-2</td><td>GENERAL NOTES 2</td><td>0</td></tr><tr><td>GN-3</td><td>GENERAL NOTES 3</td><td>1</td></tr><tr><td>C-1</td><td>OVERALL SITE PLAN</td><td>1</td></tr><tr><td>C-2</td><td>DEMOLITION SITE PLAN</td><td>0</td></tr><tr><td>C-3</td><td>ENLARGED SITE PLAN</td><td>1</td></tr><tr><td>C-4</td><td>ENLARGED PROPOSED EQUIPMENT LAYOUT</td><td>1</td></tr><tr><td>C-5</td><td>SITE ELEVATION</td><td>1</td></tr><tr><td>E-1</td><td>UTILITY PLAN</td><td>1</td></tr><tr><td>E-2</td><td>ELECTRICAL PLAN</td><td>1</td></tr><tr><td>E-3</td><td>SINGLE LINE DIAGRAM</td><td>0</td></tr><tr><td>E-4</td><td>ELECTRICAL DETAILS</td><td>1</td></tr><tr><td>E-5</td><td>ELECTRICAL DETAILS</td><td>1</td></tr><tr><td>G-1</td><td>GROUNDING DETAILS</td><td>1</td></tr><tr><td>D-1</td><td>EQUIPMENT DETAILS</td><td>0</td></tr><tr><td>D-2</td><td>EQUIPMENT DETAILS</td><td>0</td></tr><tr><td>D-3</td><td>EQUIPMENT DETAILS</td><td>0</td></tr><tr><td>LS-1</td><td>LANDSCAPING PLAN, DETAILS & PLANT SCHEDULE</td><td>1</td></tr></table>			SHEET NO:	SHEET TITLE	REV NO:	T-1	TITLE SHEET & PROJECT DATA	1	GN-1	GENERAL NOTES 1	0	GN-2	GENERAL NOTES 2	0	GN-3	GENERAL NOTES 3	1	C-1	OVERALL SITE PLAN	1	C-2	DEMOLITION SITE PLAN	0	C-3	ENLARGED SITE PLAN	1	C-4	ENLARGED PROPOSED EQUIPMENT LAYOUT	1	C-5	SITE ELEVATION	1	E-1	UTILITY PLAN	1	E-2	ELECTRICAL PLAN	1	E-3	SINGLE LINE DIAGRAM	0	E-4	ELECTRICAL DETAILS	1	E-5	ELECTRICAL DETAILS	1	G-1	GROUNDING DETAILS	1	D-1	EQUIPMENT DETAILS	0	D-2	EQUIPMENT DETAILS	0	D-3	EQUIPMENT DETAILS	0	LS-1	LANDSCAPING PLAN, DETAILS & PLANT SCHEDULE	1
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PERMITTING JURISDICTION: CITY OF AURORA ZONING CLASS: CCZD - CORE		PROPERTY SURVEY STAGING PLAN																																																														
FLOOD HAZARD AREA NOTE		ENGINEER OF RECORD																																																														
THIS SITE IS LOCATED IN FLOOD ZONE "X". AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN.		GARY SOMMERFELD PE # 0045164 BLACK & VEATCH CORPORATION																																																														
CONTRACTOR NOTE		CALL BEFORE YOU DIG	DO NOT SCALE DRAWINGS	11"x17" PLOT WILL BE HALF SCALE UNLESS NOTED																																																												
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.		<div>UNDERGROUND SERVICE ALERT UTILITY NOTIFICATION CENTER OF COLORADO 811 OR 1-800-922-1987</div> <div>3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION</div>	<div>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.</div>																																																													

PROJECT NO:	197479
DRAWN BY:	TMJ
CHECKED BY:	NMB

REV	DATE	DESCRIPTION
1	12/21/18	REISSUED FOR CONSTRUCTION
0	11/27/18	ISSUED FOR CONSTRUCTION



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T-1

GENERAL CONSTRUCTION NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY
GENERAL CONTRACTOR: OVERLAND CONTRACTING INC. (BLACK & VEATCH)
CONTRACTOR: (CONSTRUCTION)
OWNER: ELECTRIFY AMERICA
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
3. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD 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.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. 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 ENGINEER PRIOR TO PROCEEDING.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
13. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEViate FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
14. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
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. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
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 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.
21. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN 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.

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 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 GROUND. 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 JURISDICTION.
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. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
30. THE 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 HABITATION (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. THE 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.

STRUCTURAL STEEL NOTES

1. 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
2. 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.
3. 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.
4. UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36, WITH HEAVY HEXAGONAL NUT.
5. FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
6. ALL EXPOSED STRUCTURAL STEEL, BOLTS, AND HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A123.
7. SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.
8. PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11

CONCRETE MASONRY NOTES

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F'M=1,500 PSI). MEDIUM WEIGHT. (115 PCF)
2. MORTAR SHALL BE TYPE "S" ABOVE GRADE, TYPE "M" BELOW GRADE CONFORMING TO ASTM C270. (MINIMUM 2,000 PSI AT 28 DAYS)
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS CONFORMING TO ASTM C476.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS, ALL CELLS IN RETAINING WALLS, AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.
5. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
6. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
7. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
8. PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
9. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
10. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
11. REINFORCING BARS - SEE NOTES UNDER "REINFORCED CONCRETE NOTES" FOR REQUIREMENTS. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING. LAP SPLICES SHALL BE 48 BAR DIAMETERS, MINIMUM.
12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
14. HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104 OF IBC.
15. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
16. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
17. REFER TO DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
18. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.
19. ALL MORTAR FIN OBSTRUCTIONS AND DEBRIS SHALL BE CLEANED FROM INSIDE OF CELLS PRIOR TO GROUTING.

REINFORCED CONCRETE NOTES

1. 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.
AIR ENTRAINMENT: 4 1/2% - 7% BY VOLUME
2. 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 AND CONCRETE COVER.
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 FAHRENHEIT.
6. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.
7. WELDED WIRE FABRIC SHALL CONFORM TO 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", PUBLICATION SP-66 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.
10. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.
11. 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.



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

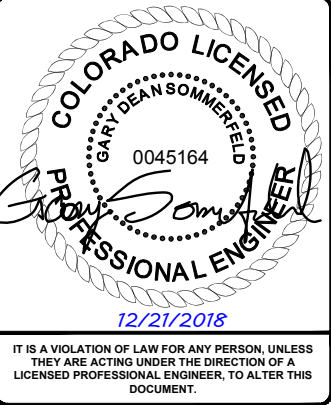


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OVERLAND PARK, KS 66211
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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AURORA, CO 80012

SHEET TITLE
GENERAL NOTES 1

SHEET NUMBER
GN-1

ANCHORAGE INSTALLATION NOTES

1. DRILLING THROUGH EXISTING SLAB REBAR DURING POST-INSTALLED ANCHOR BOLTS INSTALLATION IS NOT PERMITTED.
2. 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.
3. 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

1. **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.
2. **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.
3. **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 INCH PREFABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

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.

1.1 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. 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).

1.3 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.

GENERAL SITE WORK NOTES CONT.

PART 2 - PRODUCTS

- 2.1 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.
- 2.2 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 .
- 2.3 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
- 2.4 GRANULAR BEDDING – WELL-GRADED SAND MEETING THE GRADATION REQUIREMENT OF ASTM C 33 FINE AGGREGATE.
- 2.5 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 .
- 2.6 BACKFILL – PRODUCTS MEETING THE REQUIREMENTS OF SUITABLE MATERIAL, GRANULAR BEDDING, GRANULAR BACKFILL OR CLSM.
- 2.7 TOPSOIL – SOIL WITH AN ORGANIC CONTENT SUFFICIENT TO ALLOW VEGETATIVE GROWTH.

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 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
- 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.
- D. 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.

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.

GENERAL SITE WORK NOTES CONT.

- 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.

3.3 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, 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.

3.4 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

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

3.6 ASPHALT PAVING ROAD:

COLORADO STANDARD SPECIFICATIONS

DIVISION 400 - CDOT PAVEMENT

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.



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

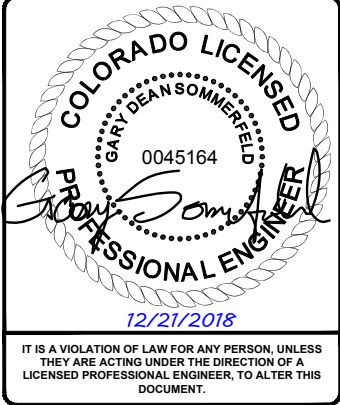


BLACK & VEATCH

6800 W 115th ST, SUITE 2922
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO:	197479
DRAWN BY:	TMJ
CHECKED BY:	NMB

1	12/21/18	REISSUED FOR CONSTRUCTION
0	11/27/18	ISSUED FOR CONSTRUCTION
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.

CO200026 AURORA
WALMART 1492
14000 E. EXPOSITION AVE.
AURORA, CO 80012

SHEET TITLE
GENERAL NOTES 2

SHEET NUMBER
GN-2

ELECTRICAL NOTES

1.

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.
2.

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.
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 PROTECTION ASSOCIATION
4.

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.
5.

EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6.

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.
7.

THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
8.

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.
9.

CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
10.

ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
11.

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.
12.

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.
13.

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.
14.

ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15.

CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
16.

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.
17.

ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18.

PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19.

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.
20.

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.
21.

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.

ELECTRICAL NOTES CONT.

22.

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.
23.

THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
24.

DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25.

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.
26.

ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE.
27.

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'.
28.

SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
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.

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".
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 MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.

GROUNDING 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.

ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
4.

ALL BELOW GRADE BONDS TO BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION TYPE CONNECTIONS LISTED FOR USE IN THE APPLICATION WHICH THEY ARE INSTALLED.

IRRIGATION NOTES

1.

CONTRACTOR TO INSTALL IRRIGATION FOR PROPOSED LANDSCAPING BY TYING INTO NEAREST IRRIGATION SYSTEM. NEW LANDSCAPING TO BE INSTALLED AFTER INSTALLATION OF IRRIGATION SYSTEM.
2.

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.
3.

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.
4.

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 INSTALLED CANNOT IMPEDE THAT PROTECTION. THE MONITORING COMPANY WILL BE ALERTED BY THE CONTROLLER IF THE WATER OR THE CONTROLLER IS TURNED OFF.

WALMART DESIGN GUIDELINES

1.

REFER TO THE PROJECT AREA STALL COUNT TABLE ON SHEET C-3 FOR THE PRE-APPROVED WALMART STALL COUNT.
2.

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).
3.

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.
4.

REFER TO NOTES SECTION OF SHEET C-3 FOR SLOPE REQUIREMENTS (IF ACCESSIBLE STALL IS CLEARLY IDENTIFIED.)

TREE PROTECTION NOTES

- SITE CONSTRUCTION SHALL TAKE INTO ACCOUNT THE LIFE AND GOOD HEALTH OF TREES PRESERVED ON THE SITE. THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR TREE PROTECTION. IF THESE GUIDELINES ARE NOT FOLLOWED, THE FULL VALUE OF THE TREE WILL BE USED IN CALCULATIONS TO DETERMINE MITIGATION REQUIREMENTS.
1.

PROTECTIVE FENCING SHALL BE SET UP TO VISIBLY SHOW THE TREE PROTECTION ZONE.
2.

ALL EQUIPMENT, INCLUDING FOOT TRAFFIC SHALL REMAIN OUTSIDE OF THE TREE PROTECTION ZONE
3.

IF ROOTS GREATER THAN 1-INCH IN DIAMETER REQUIRE REMOVAL, A CLEAN CUT SHALL BE ACCOMPLISHED USING A SHARP HAND TOOL. A MAXIMUM OF TWO 3-INCH DIAMETER ROOTS PER TREE ARE PERMITTED FOR REMOVAL. THE REMOVAL OF ADDITIONAL ROOTS 3-INCHES OR GREATER IN DIAMETER REQUIRES APPROVAL OF THE CITY FORESTER OR DESIGNEE.
4.

LIMB REMOVAL SHALL BE ACCOMPLISHED BEFORE CONSTRUCTION BEGINS. A PROFESSIONAL COMPANY THAT IS LICENSED BY THE CITY OF AURORA FORESTRY DIVISION SHALL COMPLETE ALL PRUNING.
5.

DESIGNATE CONCRETE WASHOUT AREAS. THESE AREAS SHALL NOT FLOW INTO OR ACROSS THE TREE PROTECTION ZONE.
6.

NO STOCKPILING OF SOIL IS PERMITTED WITHIN THE TREE PROTECTION ZONE AND CHANGE THE APPLICABLE CODES
7.

NO VEHICLE PARKING IS PERMITTED WITHIN THE TREE PROTECTION ZONE.
8.

THE SOIL SHALL NOT BE COMPACTED WITHIN THE TREE PROTECTION ZONE.

EXISTING TREES DAMAGED THROUGH THE CONSTRUCTION PROCESS SHALL BE IMMEDIATELY REPAIRED AND IF DAMAGED BEYOND REPAIR, REPLACED PER THE MITIGATION SPECIFICATIONS OUTLINED IN SECTION IV, SUBSECTION A, ITEM 3. THE RESTORATION PLAN FOR THESE TREES SHALL FOLLOW THAT APPROVED THROUGH THE SITE PLAN SUBMITTAL 01530



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

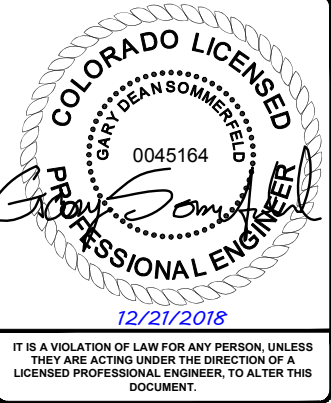


BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO:	197479
DRAWN BY:	TMJ
CHECKED BY:	NMB

1	12/21/18	REISSUED FOR CONSTRUCTION
0	11/27/18	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION



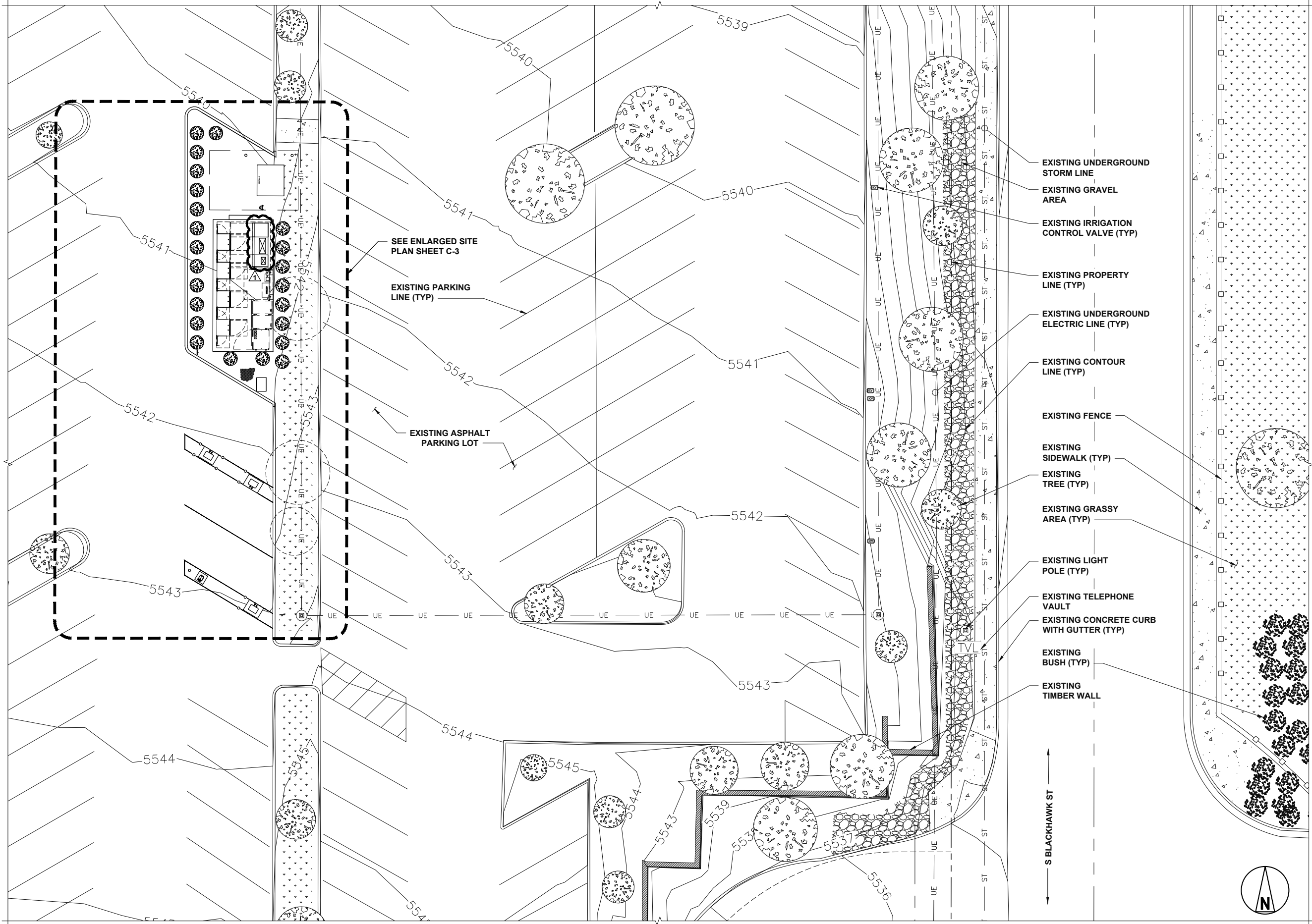
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

CO200026 AURORA
WALMART 1492
14000 E. EXPOSITION AVE.
AURORA, CO 80012

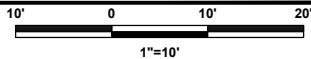
SHEET TITLE
GENERAL NOTES 3

SHEET NUMBER
GN-3

NOTE
1. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATION. ADDITIONAL BOLLARD PROTECTION MAY BE REQUIRED AT THE DISCRETION OF THE UTILITY FIELD INSPECTION PERSONNEL.



OVERALL SITE PLAN



ELECTRIFY AMERICA, LLC.
2003 EDMUND HALLEY DRIVE
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COLORADO LICENSED
GARY DEANSOMMERFELD
0045164
PROFESSIONAL ENGINEER
12/21/2018
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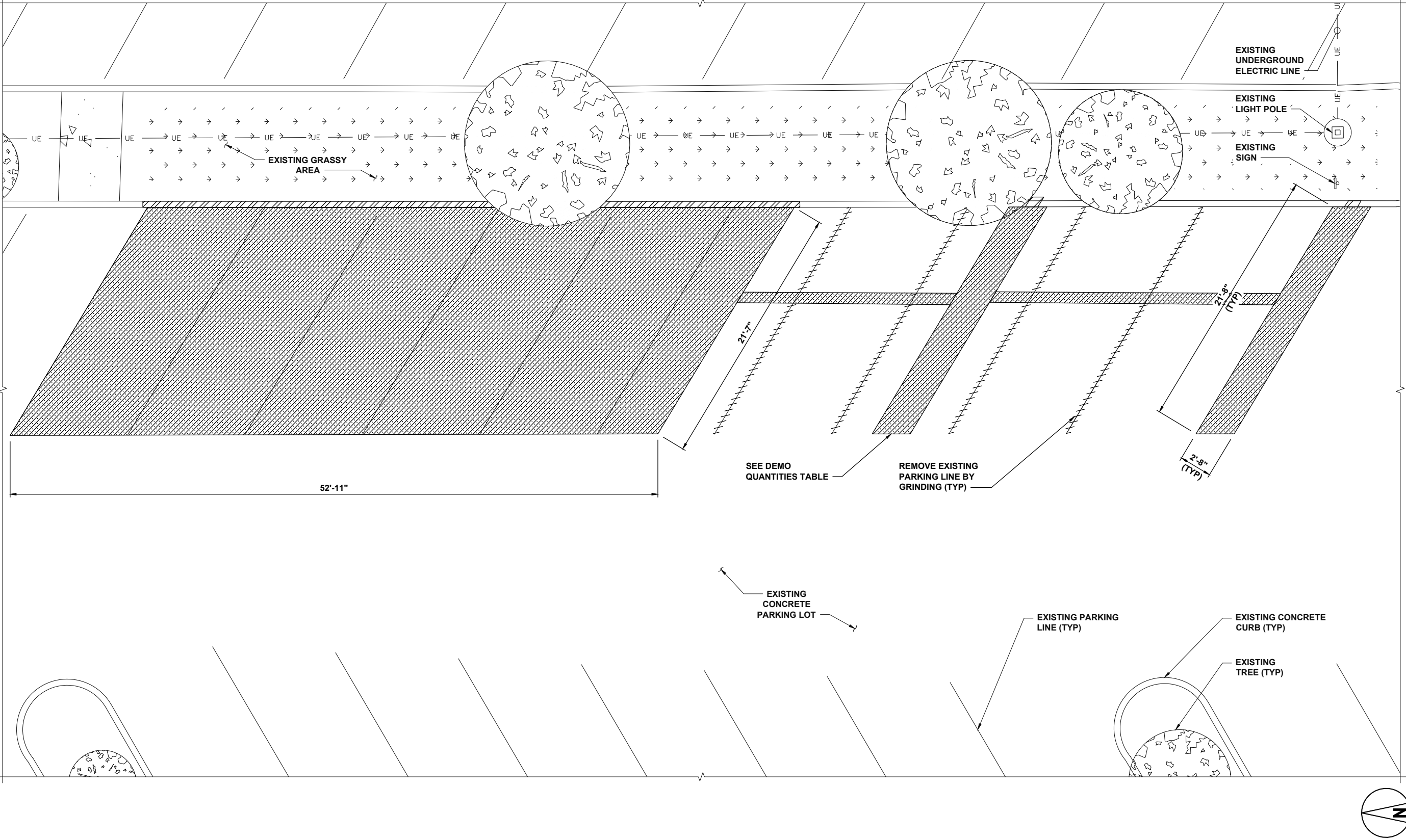
CO200026 AURORA
WALMART 1492
14000 E. EXPOSITION AVE.
AURORA, CO 80012

SHEET TITLE
OVERALL SITE PLAN

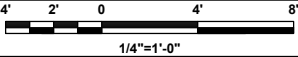
SHEET NUMBER
C-1


- 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.

DEMO QUANTITIES TABLE		
	ASPHALT	127 SQ YDS
	CURB	26 SQ FT
	PARKING LINES	GRINDING



DEMOLITION SITE PLAN





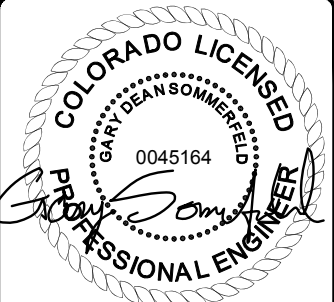
ELECTRIFY AMERICA, LLC.
2003 EDMUND HALLEY DRIVE
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SHEET TITLE
DEMOLITION SITE PLAN

SHEET NUMBER
C-2

NOTES

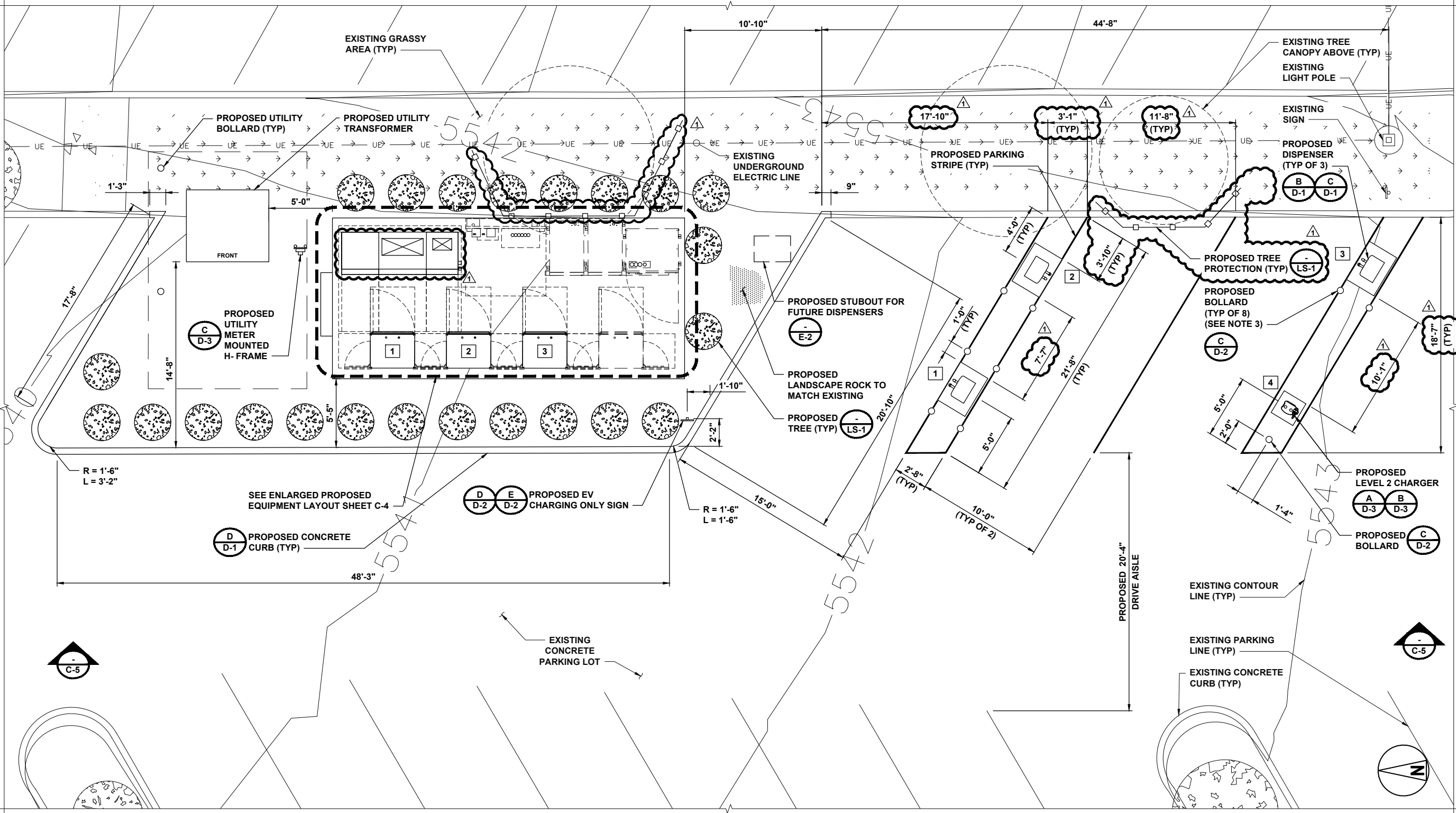
- SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
- 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.
- BOLLARD TO BE CENTERED ON PARKING STRIPE.
- CONTRACTOR SHALL PROVIDE PROTECTION FOR EXISTING TREES FOR THE DURATION OF CONSTRUCTION PER CITY OF AURORA PARKS, RECREATION AND OPEN SPACE DEDICATION AND DEVELOPMENT CRITERIA MANUAL.

PROJECT AREA STALL COUNT

EXISTING STALL COUNT	9
PROPOSED STALL COUNT	3
APPROVED STALL COUNT	8

PROPOSED DISPENSER

DISPENSER NUMBER	150 KW	LEVEL 2	CABLE TYPE
1	1		CHAdcMO/ CCS
2	1		CCS
3	1		CCS
4		1	J1772



ENLARGED SITE PLAN



ELECTRIFY AMERICA, LLC.
2003 EDMUND HALLEY DRIVE
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SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-3



ELECTRIFY AMERICA, LLC.
2003 EDMUND HALLEY DRIVE
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RESTON, VIRGINIA 20191

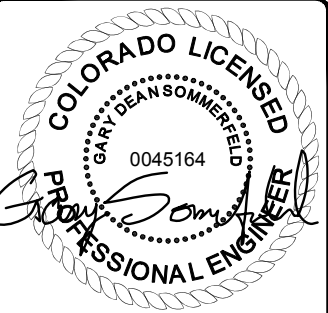


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(913) 458-2000

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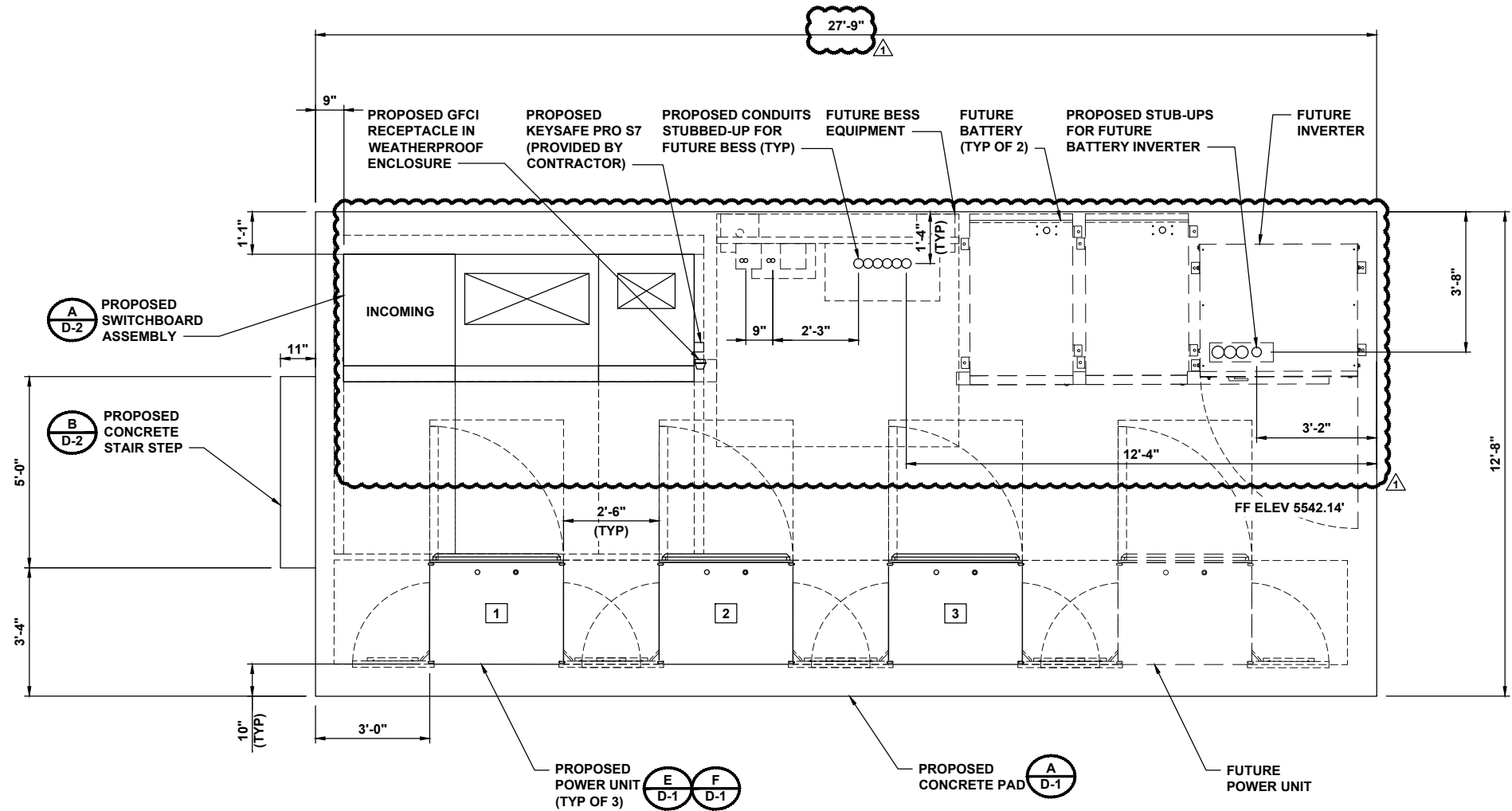


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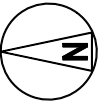
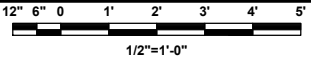
CO200026 AURORA
WALMART 1492
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AURORA, CO 80012

SHEET TITLE
**ENLARGED PROPOSED
EQUIPMENT LAYOUT**

SHEET NUMBER
C-4



ENLARGED PROPOSED EQUIPMENT LAYOUT





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2003 EDMUND HALLEY DRIVE
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RESTON, VIRGINIA 20191

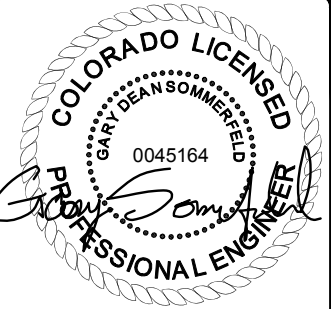


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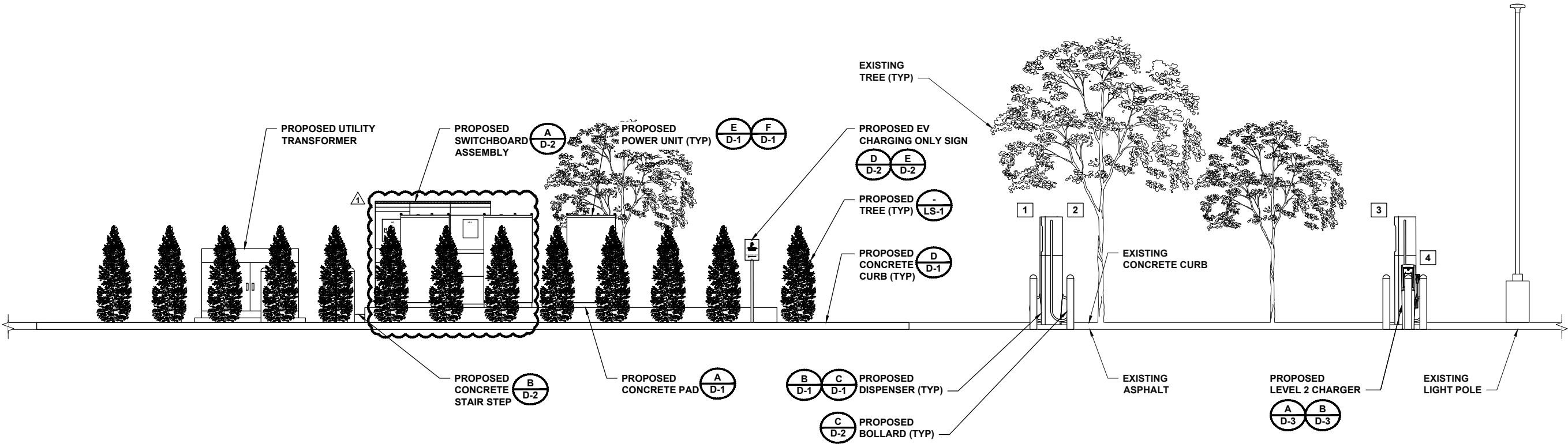


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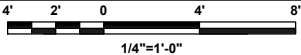
CO200026 AURORA
WALMART 1492
14000 E. EXPOSITION AVE.
AURORA, CO 80012

SHEET TITLE
SITE ELEVATION

SHEET NUMBER
C-5



SITE ELEVATION



1. FINISHED ELEVATIONS ARE APPROXIMATE. FOR GRADING ISSUES CONTACT ENGINEER OF RECORD.



NO SCALE

A

**1. BROADBAND TELCO POWER INC./ BTC
POWER DC POWER DISPENSER**



NO SCALE

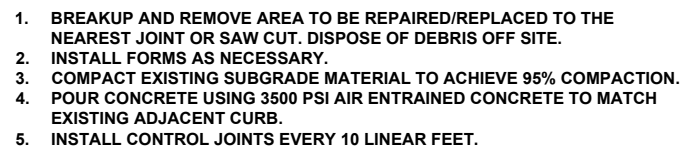
B

1. MINIMUM CONCRETE EDGE DISTANCE FOR PROPOSED ANCHORAGE IS 6".
2. CONTRACTOR TO FIELD VERIFY THE ANCHOR SPACING PER MANUFACTURER'S INSTALLATION MENU.



NO SCALE

C



STRAIGHT CURB DETAIL

NO SCALE

D



NO SCALE

E

1. MINIMUM CONCRETE EDGE DISTANCE FOR PROPOSED ANCHORAGE IS 6".
2. ALL DIMENSIONS ARE IN INCHES.



NO SCALE

F



1. SEE FLOOR PLAN IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR MOUNTING HOLE LOCATION AND SWITCHBOARD BAY DIMENSIONS.

2. SEE ELEVATION IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR BASE CHANNEL DIMENSION.

3. MINIMUM 9" CONCRETE EDGE DISTANCE REQUIRED FOR PROPOSED ANCHORAGE.

TYPICAL BOTTOM VIEW LAYOUT OF (1) SWITCHBOARD BAY. SEE NOTE 1

5/8" DIA. MOUNTING HOLES OFFSET 3" FROM SIDES (TYP)

FRONT OF SWITCHBOARD BAY

BOTTOM VIEW

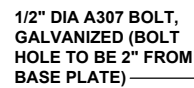


1. BOLLARD IS FOR WARNING PURPOSES ONLY.
2. BOLLARD DETAIL FOR BOLLARDS AROUND ELECTRIFY AMERICA EQUIPMENT.
3. CONTRACTOR TO PROVIDE (2) 6' LONG, 1/2" THICK FOAM STRIPS CROSSED OVER TOP OF STEEL PIPE TO STABILIZE SLIP COVER.

C

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 54" ABOVE GRADE.
4. ADDITIONAL PARKING SIGNS TO BE INSTALLED 2" ABOVE TOP OF PREVIOUS SIGN.
5. SIGN, SIGN POST, POST CAP, 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.
7. CONTRACTOR SHALL COORDINATE WITH CITY WHEN SPECIAL JURISDICTIONAL/CITY REQUESTS
ARE NECESSARY FOR ANY SIGN POST INSTALLATION, I.E. POST MATERIAL, PAINT COLORS,
HARDWARE, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING CITY APPROVES ALL MATERIALS
PRIOR TO INSTALLATION.

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.

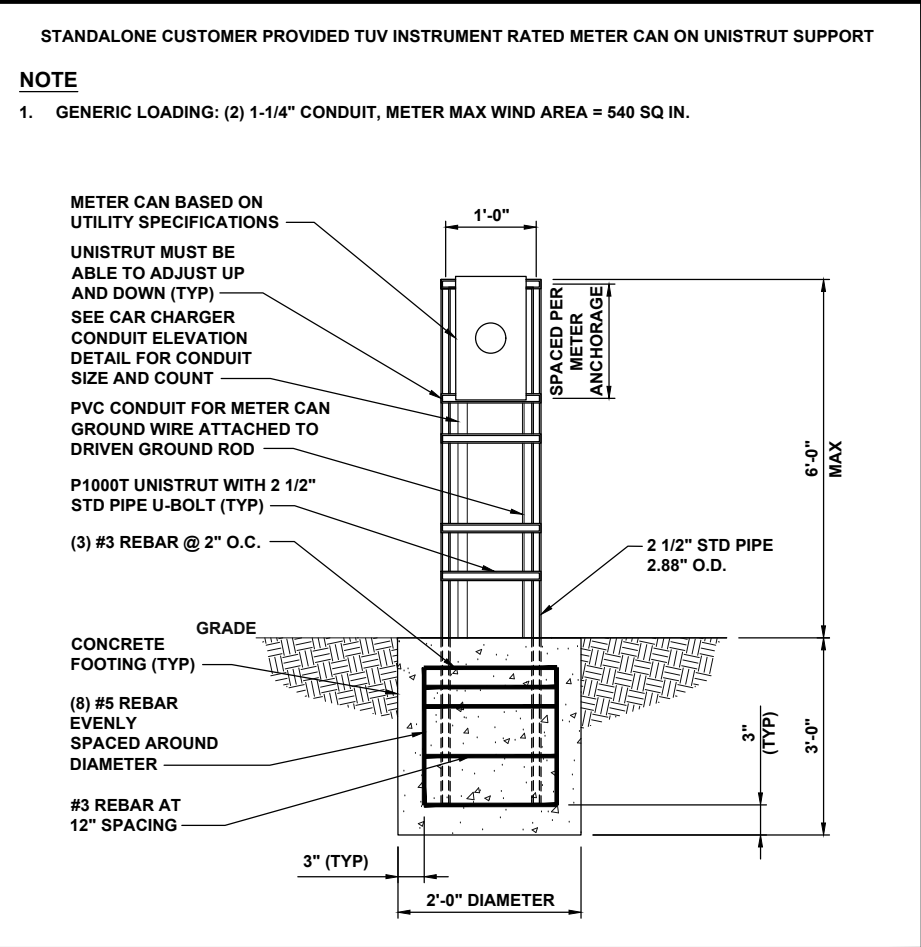
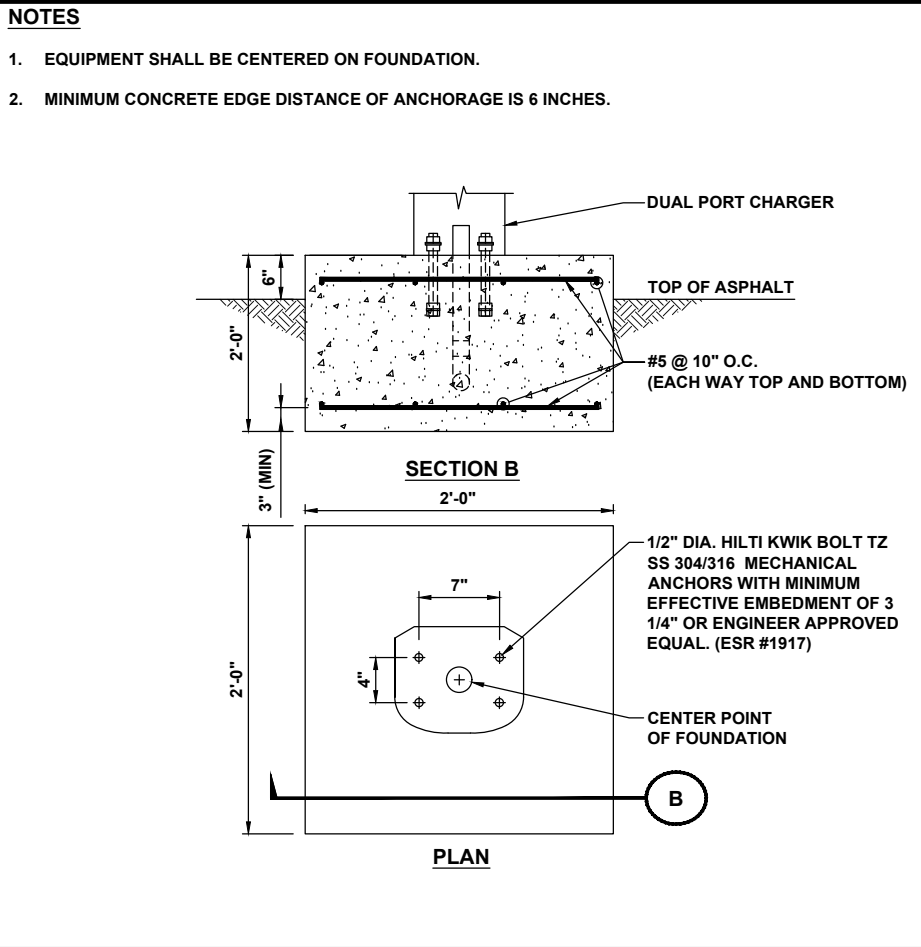
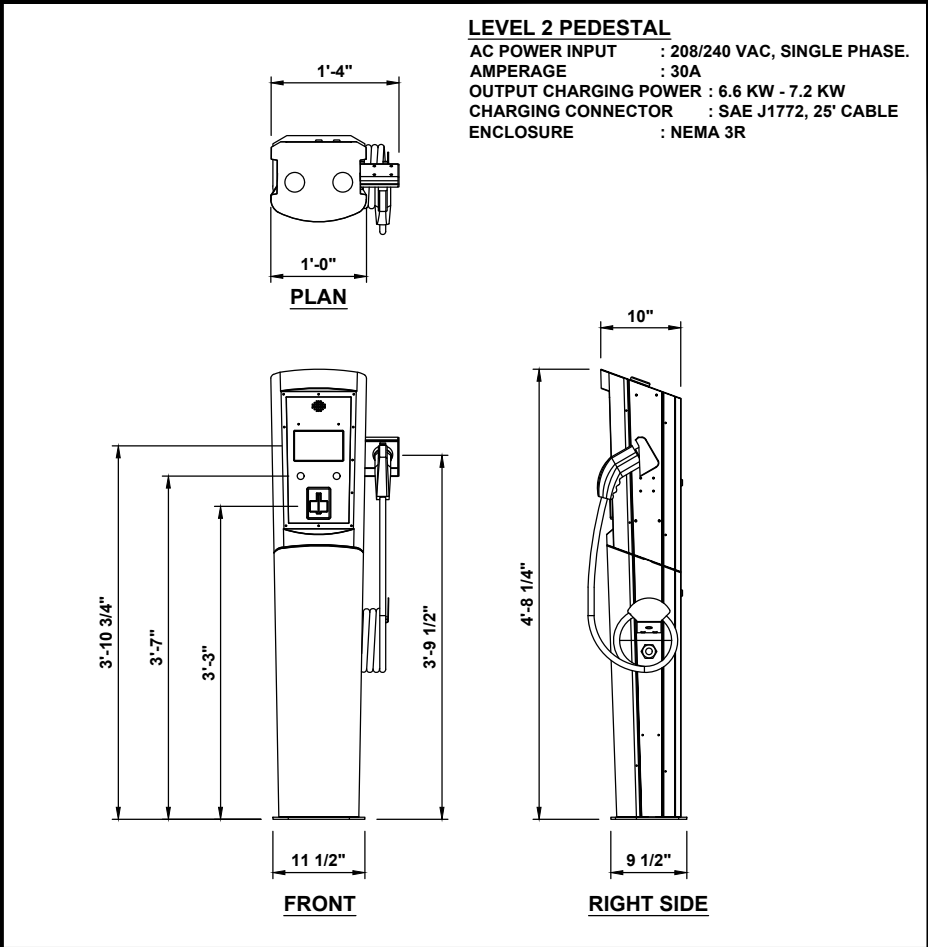


D

1. CONTRACTOR TO SELECT APPROPRIATE SIGN PER PROPOSED SIGN LOCATION.
2. BOTTOM OF LOWEST SIGN TO BE INSTALLED 54" ABOVE GRADE.

COMPANY: SETON
CONTACT: MOLLY YARGER
PHONE: 844-580-3349
EMAIL: MOLLY_YARGER@SETON.COM
*REFERENCE QUOTE #25289757 (14 DAY LEAD TIME)





electrify america

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

BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

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COLORADO LICENSED
GARY DEANSOMMERFELD
0045164
PROFESSIONAL ENGINEER
12/21/2018

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WALMART 1492
14000 E. EXPOSITION AVE.
AURORA, CO 80012

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
D-3

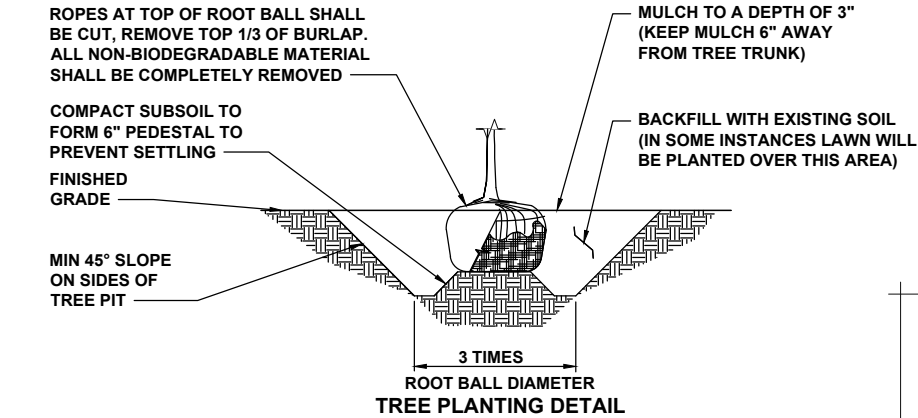
LEVEL 2 CHARGER	NO SCALE	A
DETAIL NOT USED	NO SCALE	D

LEVEL 2 CHARGER FOUNDATION DETAIL	NO SCALE	B
DETAIL NOT USED	NO SCALE	E

STANDALONE METER CAN UNISTRUT SUPPORT	NO SCALE	C
DETAIL NOT USED	NO SCALE	F

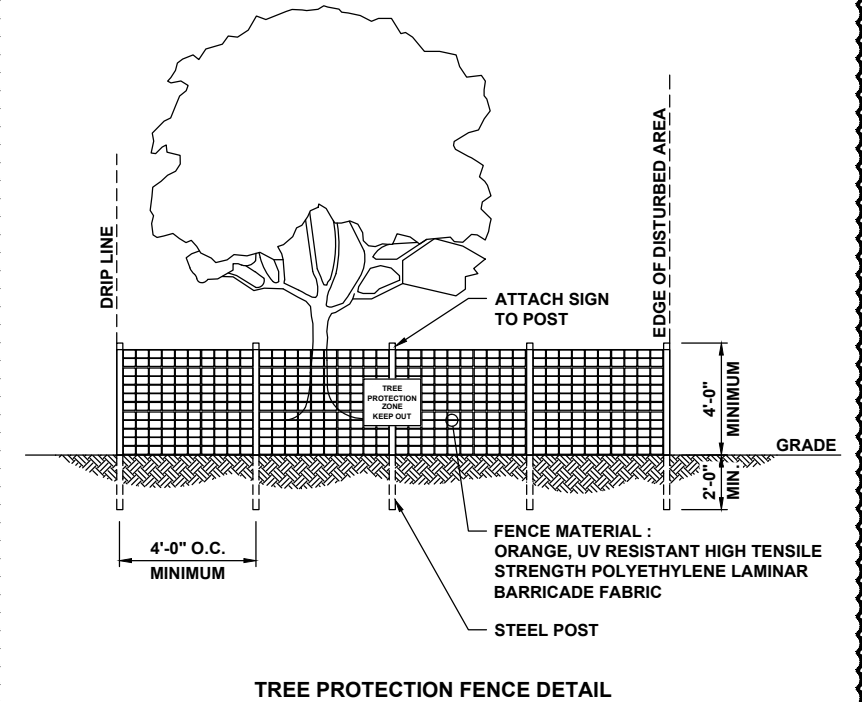
TREE PLANTING NOTES

- SITUATE ROOT BALL SO THAT TOP OF ROOT BALL IS 2" ABOVE FINISHED GRADE.
- SCARIFY SIDES AND BOTTOM OF TREE PIT.
- BACKFILL TREE PIT WITH EXISTING SOIL AND WATER UNTIL NO MORE WATER IS ABSORBED.
- DO NOT ALLOW AIR POCKETS TO FORM WHILE BACKFILLING.
- INSTALL A MIN. 4'-0" DIAMETER MULCH RING AT A MIN. DEPTH OF 3" FOR TREES IN LAWN AREA.
- TREES NEED TO BE STAKED ONLY WHEN EXTREME WIND MAKES SUCH SUPPORT NECESSARY. IF STAKING IS NECESSARY CONTACT THIS OFFICE AND A DETAIL WILL BE PROVIDED.



NOTES

- ALL PLANTS DESIGNED TO BE SAVED SHALL BE PROTECTED BY FENCING, AS ILLUSTRATED.
- INSTALL TREE PROTECTION FENCE AT TREE DRIP LINE OR AT EDGE OF DISTURBED AREA , AS SHOWN ON PLANS, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- SPACE TREE PROTECTION ZONE SIGNS A MINIMUM OF ONE EVERY 300 FEET. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 2'x2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE. THE SIGN MUST CONTAIN THE FOLLOWING LANGUAGE IN BOTH ENGLISH & SPANISH; "TREE PROTECTION ZONE, KEEP OUT".
- THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
- TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.



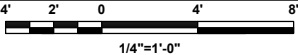
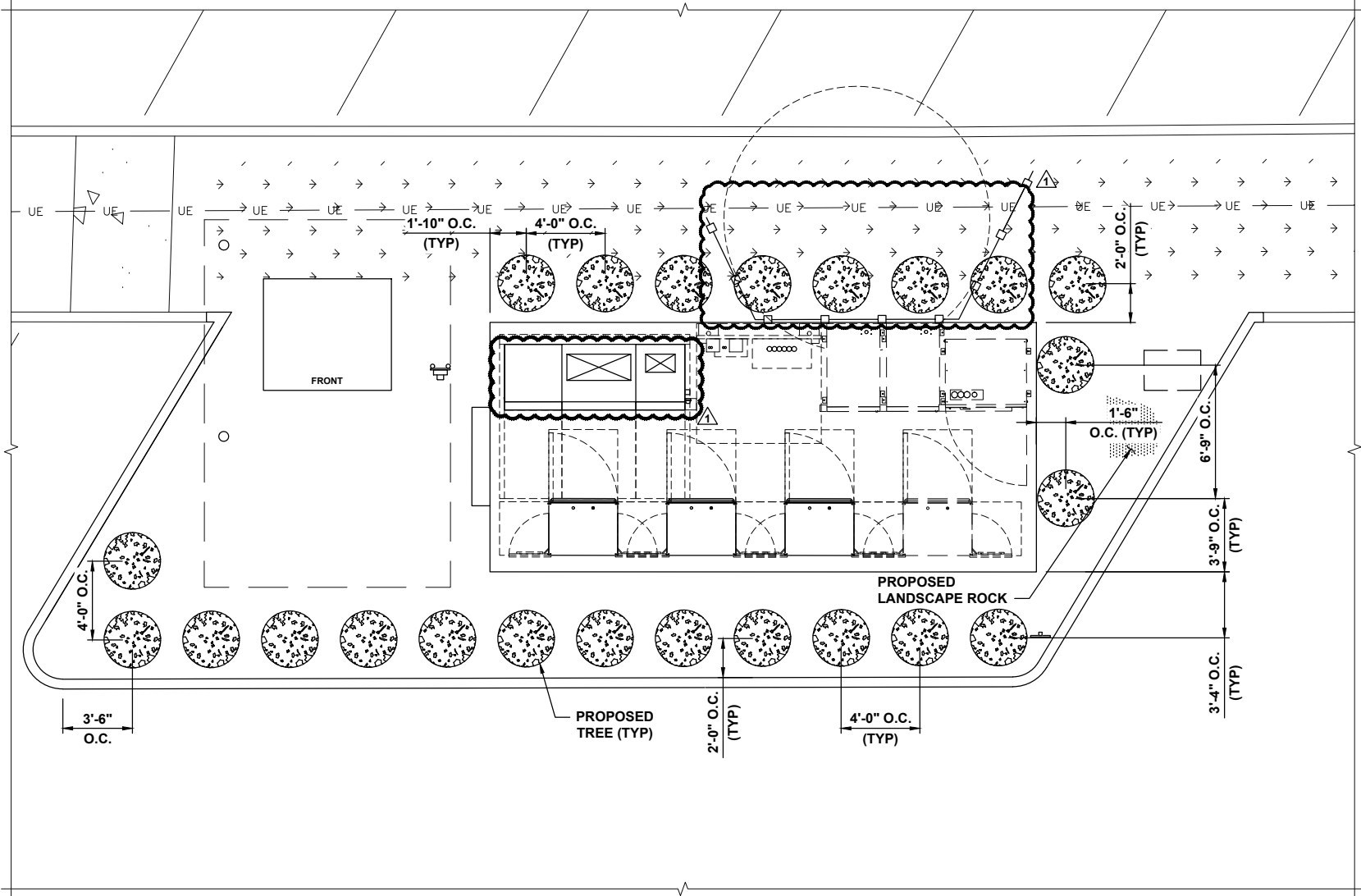
GENERAL NOTE

- ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, AND MORE FREQUENTLY DURING TIMES OF EXTREME HEAT, FOR THE DURATION OF THE FIRST GROWING SEASON.

PLANT SCHEDULE						
CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE (AT CONSTRUCTION)	SPACING	SPECIFICATIONS (AT FULL SIZE)
TREES	THUJA OCCIDENTAL 'SMARAGD'	EMERALD GREEN ARBORVITAE	23	8' - 10' FT TALL	AS SHOWN	10-12 FT TALL, 3-4 FT WIDE
SHRUBS						
GROUND COVER	-	ROCK	-	-	-	TO MATCH EXISTING
OTHER						

LANDSCAPE NOTES

- PROVIDE MINIMUM FOUR CUBIC YARDS OF ORGANIC MATERIAL PER 1,000 SF OF AREA
- ALL UTILITY EASEMENT SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT ENTRY.
- THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS, SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED SITE PLAN OR LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DELINEATED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATES OF OCCUPANCY.
- ALL LANDSCAPED AREAS AND PLANT MATERIAL, EXCEPT FOR NON-IRRIGATED NATIVE, RESTORATIVE, AND DRYLAND GRASS AREAS THAT COMPLY WITH REQUIREMENTS FOUND IN SEC. 146-1429 AND/OR SEC. 146-1435 MUST BE WATERED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. IRRIGATION SYSTEM DESIGN, INSTALLATION, OPERATION, AND MAINTENANCE SHALL CONFORM TO REQUIREMENTS FOUND IN THE CITY OF AURORA IRRIGATION ORDINANCE.



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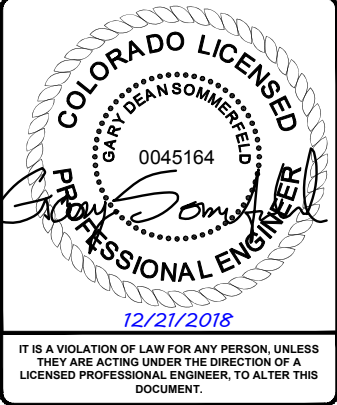


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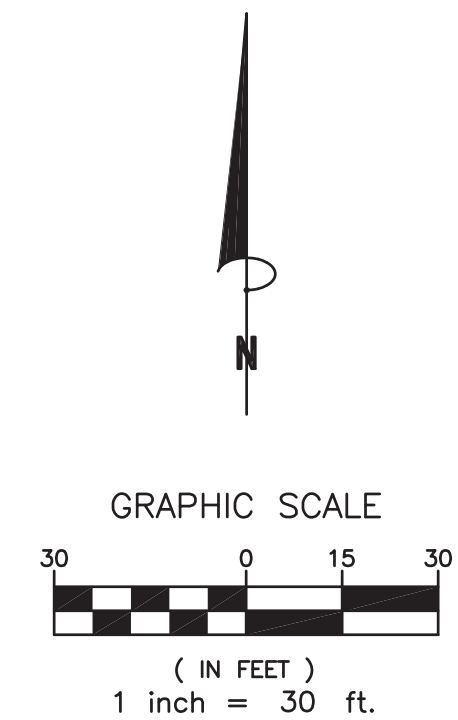
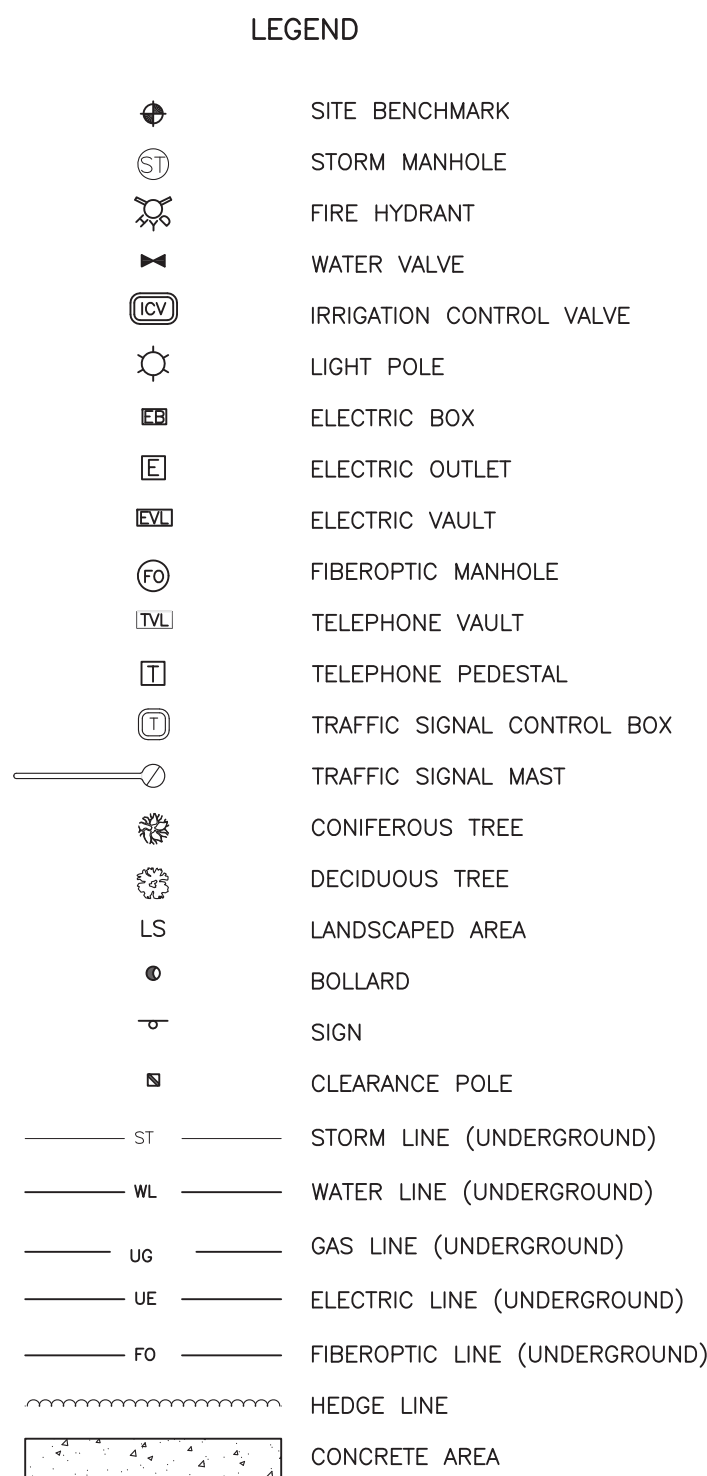
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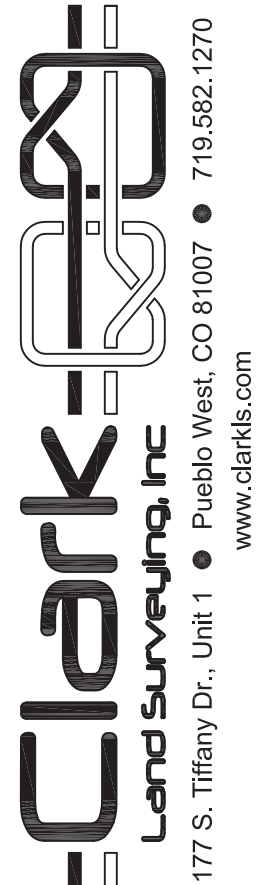
SHEET TITLE
LANDSCAPING PLAN
DETAILS & PLANT SCHEDULE

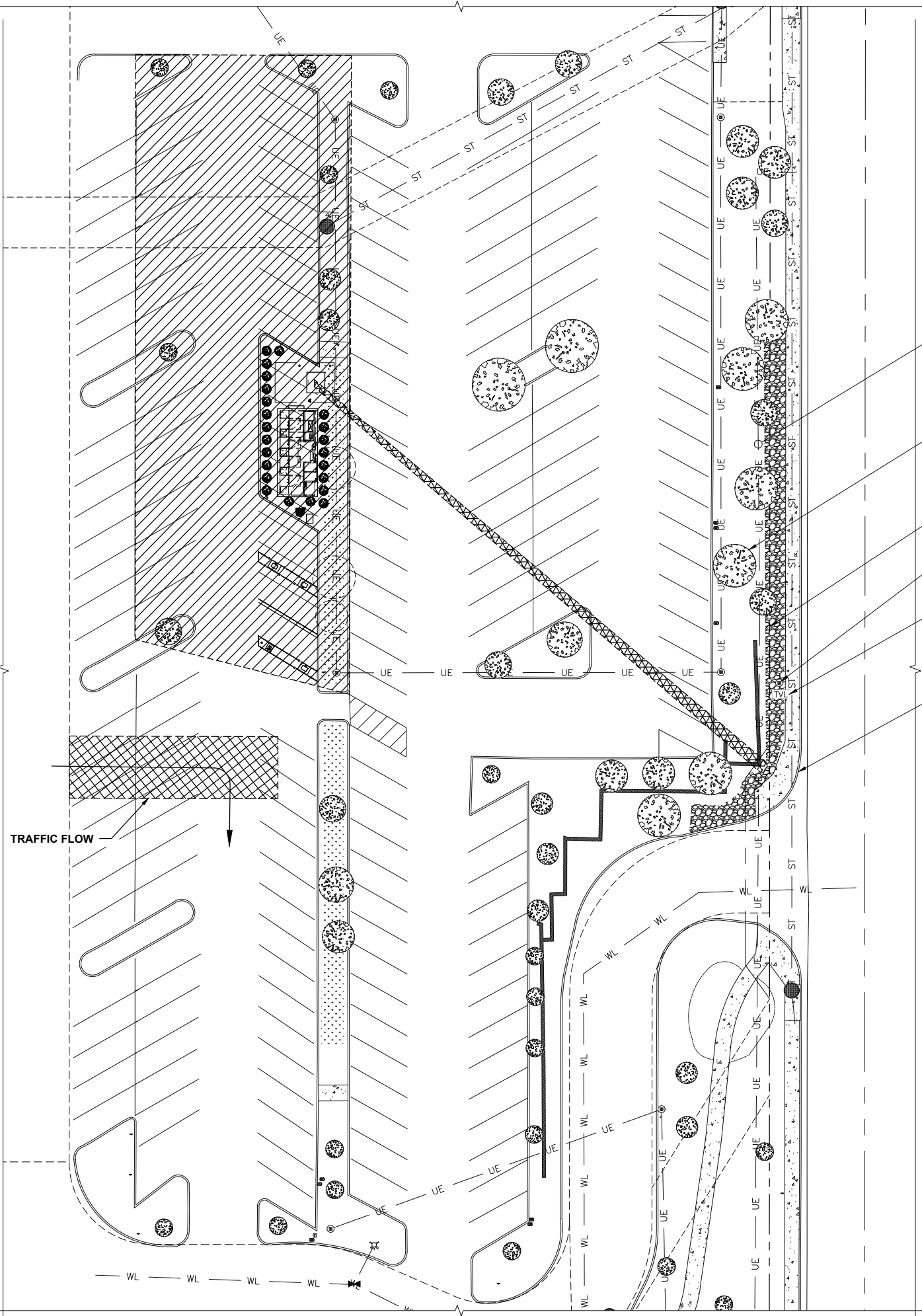
SHEET NUMBER
LS-1



Notice: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

Sheet	181173	Drawn By: AMF Checked By: NIM	Date: 10/15/2018
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- NOTES**
- 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.

LEGEND	
	WORK / STAGING AREA
	DRIVE AISLE CLOSURE
	UTILITY LINE TO BE BORED
	UTILITY LINE TO BE TRENCHED

EXISTING UNDERGROUND
ELECTRIC LINE (TYP)

EXISTING
TREE (TYP)

EXISTING PROPERTY
LINE (TYP)

EXISTING LIGHT
POLE (TYP)

EXISTING TELEPHONE
VAULT

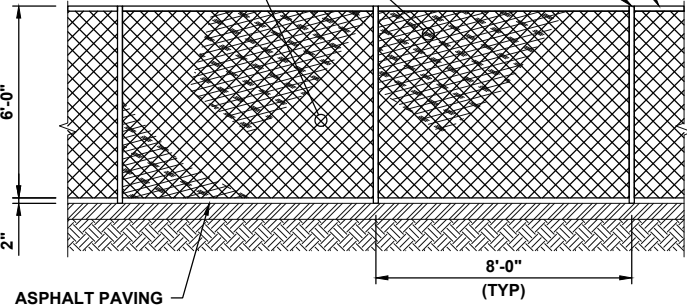
EXISTING CONCRETE CURB
WITH GUTTER (TYP)

ENDURO SHADE CLOTH BY
HENDEE ENTERPRISES, INC.
(OR EQUAL) TEL: 1-800-231-7275

NO. 9 GAGE, 0.148" ± 0.00", FINISHED
SIZE GALVANIZED STEEL WIRES. 2"
MESH, TOP AND BOTTOM SELVAGES
TWISTED AND BARBED CONFORMING
TO ASTM A392, A491, F668, OR F573

TOP RAIL 1.66 IN
OD, 2.27 LB/FT
GALVANIZED
STEEL PIPE (TYP)

POST 1.90 IN OD,
2.70 LB/FT
GALVANIZED
STEEL PIPE (TYP)



TEMPORARY FENCE DETAIL
NO SCALE



FOR REFERENCE ONLY



ELECTRIFY AMERICA, LLC.
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REV	DATE	DESCRIPTION
1	12/21/18	REISSUED FOR CONSTRUCTION
0	11/27/18	ISSUED FOR CONSTRUCTION

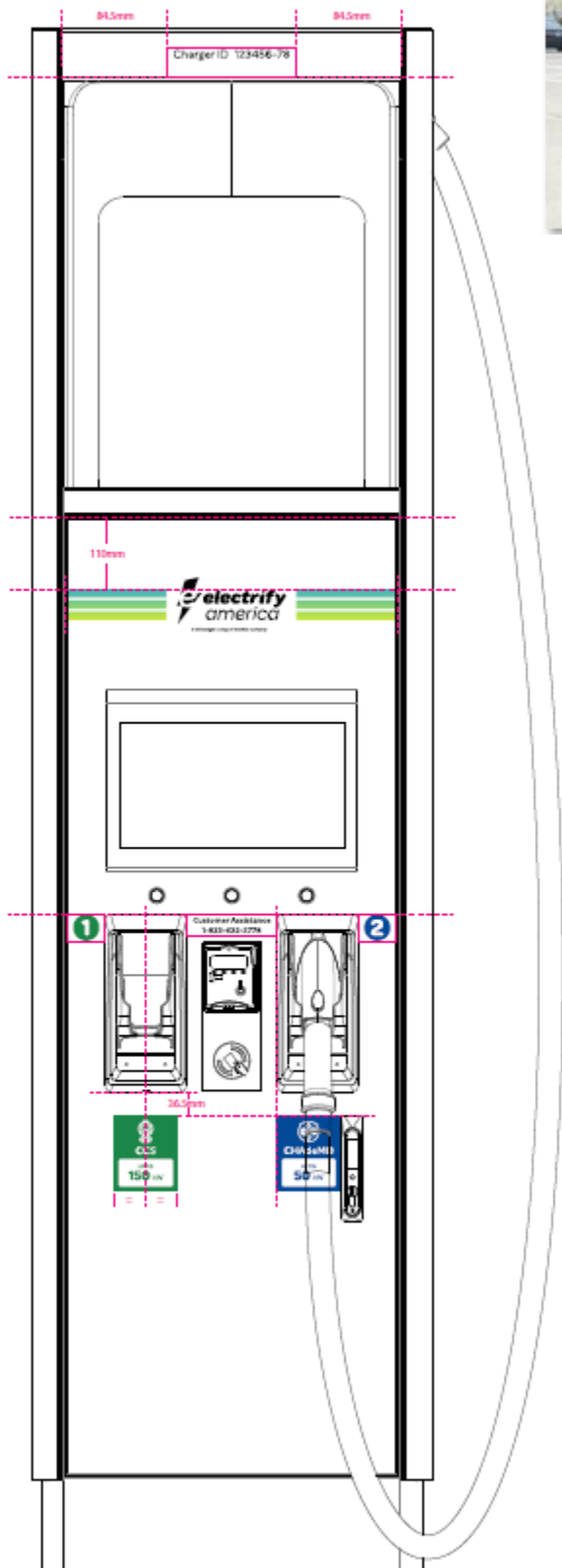
CO200026 AURORA
WALMART 1492
14000 E. EXPOSITION AVE.
AURORA, CO 80012

SHEET TITLE
STAGING PLAN

SHEET NUMBER

-

ABB



Detailed dimensions:

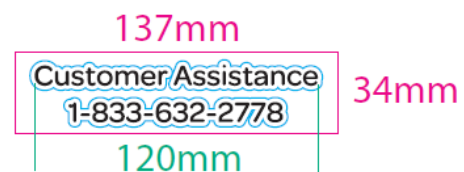
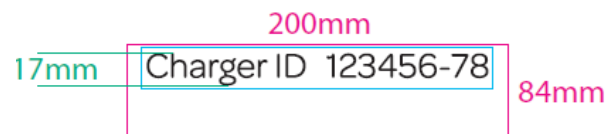
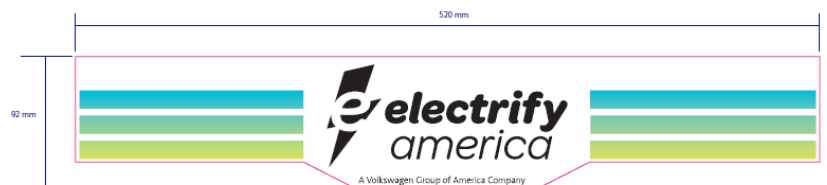


ABB – Specifications

	Unit	ABB
AC Input Voltage	V(ac)	480 3-AC
AC Input Voltage Range	%	+/-10
AC Input Voltage Frequency	Hz	59 to 61
AC Input Full load amps (Nameplate)	A(ac)	231
DC Output minimum conductor ampacity (Nameplate)	A(dc)	375
DC Output Voltage	V(dc)	150-920
Power Factor		0.95
Efficiency	%	95
Recommended overcurrent protection	A(ac)	300
Power Cabinet weight	lbs	3000
Power cabinet dimensions	inches	82x46x52
Dispenser weight	lbs	780
Dispenser dimensions	inches	94x25x18
Total Harmonic distortion	%	4
Operating Temperature	deg C	-35 to +45
IP / NEMA rating		54
IK rating		10
Humidity	%	
Short Circuit Rating @ 480V	kA	25
Altitude	m	2000
Light output	lumen	2x 660
NRTL certified UL2202, UL2231-1, UL2231-2		cTUVus


ELAM Operations

ELAM Engineering

