

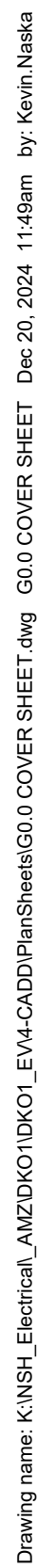
TOWN OF LITTLETON
151 TAYLOR STREET, LITTLETON, MA 01460

PARCEL APN: R10-14-1

EV PARKING DATA TABLE		
TYPE	REQUESTED QTY.	PROPOSED QTY.
L2 STALLS	151 STALLS	154 STALLS
L3 STALLS	4 STALLS	4 STALLS
NOTE: ALL QUANTITIES REPRESENT THE NUMBER OF L2 & L3 STALLS.		

VICINITY MAP
NOT TO SCALE

SITE CODE	SHEET NUMBER	TOTAL SHEETS
DK01	G0.0	32



This document, together with the contracts and designs presented herewith, is an instrument of service, is intended only for the specific purpose and date for which it was prepared. Release of said instrument, release of this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LEGEND	
ITEM	DESCRIPTION
	PROPERTY LINE
	SETBACK LINE
	BUFFER LINE
	EASEMENT LINE
	NHESP BOUNDARY LINE
	FEMA FLOOD BOUNDARY LINE
	WETLAND BOUNDARY LINE
	EXISTING UNDERGROUND POWER CONDUIT LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING STORM AND DRAINAGE LINE
	EXISTING SANITARY SEWER LINE
	EXISTING GUARD RAIL
	EXISTING SPEED BUMP
	EXISTING LIGHT POLE
	EXISTING BOLLARD
	EXISTING FENCE LINE
	EXISTING FIRE HYDRANT
	EXISTING SIGN
	EXISTING STRUCTURE
	EXISTING TREE
	EXISTING TREE LINE
	EXISTING L2 ELECTRIC VEHICLE CHARGING STATION
	LIMITS OF DISTURBANCE = 43,415 SF (±0.08 AC)
	LIMITS OF WORK = 430,000 SF (±0.69 AC)
	EXISTING PARKING STRIPING TO BE REMOVED
	PERVIOUS AREA REMOVAL
	FULL-DEPTH CONCRETE PAVEMENT / CURBING REMOVAL
	FULL-DEPTH ASPHALT PAVEMENT REMOVAL
	ASPHALT / CONCRETE PAVEMENT SAW CUT LINE
	STORMWATER FLOW DIRECTION ARROW
	Ⓢ SILT FENCE
	ⓔ EROSION EEL / FILTER SOCK
	Ⓜ INLET PROTECTION
	Ⓣ TREE PROTECTION
	Ⓢ CONCRETE WASHOUT AREA
	CONDUIT AND CONDUCTOR FEEDER CALLOUT
	EV VAN STALL PARKING COUNT
	POWER CONDUIT - UNDERGROUND
	EXISTING UTILITY MANHOLE
	UTILITY SWITCHING CABINET - PAD MOUNTED
	UTILITY METER
	UTILITY TRANSFORMER - PAD MOUNTED
	ELECTRICAL MANHOLE
	480V LV SWITCHBOARD - PAD MOUNTED
	LV TRANSFORMER - PAD MOUNTED
	LV PANEL - UNISTRUT MOUNTED (U.O.N.)
	NEMA 3R JUNCTION BOX
	L3 DC FAST CHARGING STATION (DCFC)
	L2 EVCS - POST MOUNTED W/ JUNCTION BOX
	EMBEDDED BOLLARD
	POST INSTALLED BOLLARD
	ENLARGEMENT
	SHEET NUMBER
	PARKING STRIPING (SEE PLANS FOR REVISED PARKING LAYOUT)
	REGRADE & RESTORE CONCRETE CURBING
	CONCRETE PAD / REGRADE & RESTORE CONCRETE PAVEMENT
	REGRADE & RESTORE ASPHALT PAVEMENT
	Ⓡ REGRADE AND RESTORE PERVIOUS / LANDSCAPE AREA

- PROJECT NOTES**
- THIS PROJECT PROPOSES LEVEL 2 CHARGERS AND DC FAST CHARGERS (LEVEL 3) AS SHOWN IN THE EV CHARGING QUANTITIES BY TYPE TABLE ABOVE. THESE CHARGERS ARE PROPOSED TO SERVE A PRIVATE FLEET.
 - EV CHARGING MANUFACTURER WILL BE TRITUM, SIEMENS, PIHONG, OR OWNER-APPROVED ALTERNATIVE.

GEOTECHNICAL NOTE

THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT GEOTECHNICAL REPORT. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS TO BE IN CONFORMANCE WITH THE CURRENT GEOTECHNICAL REPORT AND NOTIFY ENGINEER AND PROJECT TEAM OF ANY DISCREPANCIES PRIOR TO THE SCHEDULING OF ANY SITE DISTURBANCE ACTIVITIES. CONTRACTOR SHALL COORDINATE UPDATING THE CURRENT GEOTECHNICAL REPORT AS REQUIRED OR SHALL EMPLOY THE GEOTECHNICAL RECOMMENDATIONS OF THE PREVIOUSLY APPROVED PLAN.

SETBACK NOTE

CONTRACTOR TO VERIFY THAT LOCATIONS OF ALL PROPOSED EV ELECTRICAL EQUIPMENT AND INFRASTRUCTURE ARE IN COMPLIANCE WITH ALL LOCAL CODES, SETBACKS, AND BUFFERS.

- DEMOLITION NOTES**
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE INFORMATION PROVIDED BY AMAZON AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR MARKING ON-SITE LOCATIONS OF EXISTING UTILITIES.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
 - ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME, IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY. THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
 - THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS AND INSPECTION REPORTS (SWPPP).
 - ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER / ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
 - QUANTITIES SHOWN HERE ARE APPROXIMATE AND ARE PROVIDED FOR CONVENIENCE ONLY AND NOT FOR BID PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES NECESSARY TO DEMO FACILITIES SHOWN.

- PAVING NOTES**
- PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS.
 - ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS, LATEST EDITION.
 - CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND PAVEMENT MARKINGS SHALL ADHERE TO AHJ AND OWNER STANDARDS.
 - THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
 - BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE AREAS, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESSIBLE AREAS SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
 - EXISTING ASPHALT / CONCRETE PAVEMENT SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF A MINIMUM 2" WIDE SECTION FOR CONSTRUCTION AND REPLACEMENT OF CONCRETE FORMS WHERE ADJACENT TO NEW CONCRETE. CONTRACTOR SHALL MATCH EXISTING ASPHALT SECTION.

DISTURBANCE NOTE

FOR THE PURPOSE OF THIS PLAN, THE LIMITS OF WORK (LOW) REFER TO THE APPROXIMATE BOUNDARY WITHIN WHICH THE INSTALLATION OF THE EV INFRASTRUCTURE WILL OCCUR. THE LIMITS OF DISTURBANCE (LOD) IS THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, CLEARING, EXCAVATION, GRADING, AND RELATED ACTIVITIES SHALL OCCUR. THE LOW ENCOMPASSES THE LOD SHOWN ON THIS PLAN.

EXISTING UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED UPON RECORD DRAWINGS PROVIDED BY AMAZON AND ARE ILLUSTRATIVE IN NATURE. THE CONTRACTOR SHALL FIELD DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED INFRASTRUCTURE TO ENGINEER PRIOR TO CONSTRUCTION.

EV PARKING DATA TABLE		
TYPE	REQUESTED QTY.	PROPOSED QTY.
L2 STALLS	151 STALLS	154 STALLS
L3 STALLS	4 STALLS	4 STALLS

NOTE: ALL QUANTITIES REPRESENT THE NUMBER OF L2 & L3 STALLS.

EV CHARGER QUANTITIES BY TYPE		
CHARGER TYPE	SINGLE CHARGERS	DUAL CHARGERS
L2s	2 EVCS	76 EVCS
L3s	N/A	2 DCFC

NOTE: ALL QUANTITIES REPRESENT THE NUMBER OF SINGLE AND DUAL CHARGERS INSTALLED

VAN PARKING DATA TABLE		
TOTAL EXISTING VAN STALLS	450 STALLS	
TOTAL PROPOSED VAN STALLS	445 STALLS	
CHANGE	1 VAN STALL(S) TO BE DEDICATED TO EV INFRASTRUCTURE	

- ELECTRICAL NOTES**
- PART ONE - GENERAL**
- THE WORK, ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE THE WORK SHOWN ON THE DRAWINGS AND SPECIFIED FOR ITS INDIVIDUAL SECTIONS OF WORK. THE WORD "WORK" IS DEFINED AS ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS, WHICH SHALL BE PROVIDED BY THIS CONTRACTOR WHETHER OR NOT SPECIFICALLY INDICATED OR NOTED.
 - RESPONSIBILITY: THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ACTIONS OF ITS PERSONNEL, SUPPLIERS, AND SUB-CONTRACTORS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK AS MAY BE REQUIRED TO ACCOMMODATE OR SUPPORT THE ELECTRICAL WORK. EXAMPLES: PAINTING, STRUCTURAL SUPPORTS, CUTTING AND PATCHING, EXCAVATION AND BACKFILL, CONCRETE PADS, ROOF JACKS, ETC. REQUIRING THE CONTRACTORS ENGAGEMENT OF APPROPRIATE TRADES TO PERFORM SUCH WORK FOR THE PROPER INSTALLATION AND OPERATION OF COMPLETE ELECTRICAL SYSTEMS.
 - MINIMUM REQUIREMENTS: THESE SPECIFICATIONS ESTABLISH THE MINIMUM REQUIREMENTS FOR THE WORK AND MATERIALS, EQUIPMENT AND METHODS TO BE PROVIDED. THE DRAWINGS MAY INDICATE REQUIREMENTS THAT EXCEED THESE MINIMUMS. GENERAL CONDITIONS: ALL GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.
 - DEFINITIONS:
 - AHJ: AUTHORITY HAVING JURISDICTION.
 - AN: AN INSTALLATION OR SYSTEM OF MULTIPLE COMPONENTS REQUIRING MULTIPLE CONNECTIONS. (I.E. TRASH COMPACTOR, MOTORIZED DOOR, HVAC SPLIT SYSTEM, ETC.)
 - EQUAL: ACCEPTED BY THE ENGINEER AS EQUAL.
 - FF&E: FURNISHINGS, FIXTURES, AND EQUIPMENT - PROVIDED BY OTHERS AT JOBSITE. RECEIVE, PROTECT, STORE, ASSEMBLE, INSTALL AND CONNECT. PROVIDE MINIMUM OF 5x STRUCTURAL BACKING. (EXAMPLES: CHAMBLERS, PROJECTORS, ETC.)
 - PROVIDE: FURNISH, INSTALL, ACTIVATE, AND COMMISSION.
 - CODES: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED CODE PER THE AHJ INCLUDING THE NEC, IECC, AND ALL OTHER ADOPTED APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
 - AMZ STANDARDS: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST AMAZON SPECIFICATIONS AND STANDARDS.
 - PERMITS: PAY ALL FEES AND OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
 - DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE, AND INDICATE THE TYPE, SIZE, ARRANGEMENT, AND LOCATIONS OF MATERIALS AND EQUIPMENT. WORK INCLUDES CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES THAT MAY NOT BE SHOWN. PROVIDE ALL NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO REQUIRE FINISHED WORK, TESTED, AND READY FOR OPERATION. DO NOT SCALE DRAWINGS. ARRANGEMENT OF EQUIPMENT AND ROUTING OF FEEDERS AND BRANCH CIRCUITING SHALL BE PLUMB AND AT RIGHT ANGLES TO BUILDING CONSTRUCTION, AND MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS REQUIRING ON-SITE REVISIONS DURING CONSTRUCTION. (SEE ALSO "BIDDING").
 - COORDINATION: THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION AND COOPERATION WITH THE OWNER, VENDORS, AND SPECIALTY CONTRACTORS. MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES IN ORDER TO PROVIDE ACCESS FOR THE PROPER EXECUTION OF THE WORK.
 - VERIFICATION: CHECK AND VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK, ANY DEVIATIONS (OR PROBLEMS) SHALL BE TRANSMITTED TO THE ENGINEER FOR REVIEW.
 - CONNECTIONS: CONNECT ALL EQUIPMENT, SYSTEMS, AND ASSEMBLIES PROVIDED BY OTHERS INCLUDING CONTROLS, SAFETY DEVICES, AND INTERCONNECTIONS.
 - SUBMITTAL: SUBMIT TO THE ENGINEER COMPLETE ELECTRONIC SETS OF SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN. PRIOR TO COMMENCEMENT OF WORK, THE ENGINEER SHALL REVIEW SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER. THE ENGINEERS FAILURE TO CORRECT ERRORS IN THE SUBMITTAL SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK AS SHOWN AND/OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENGINEERING FEES NECESSARY TO CHANGE PROJECT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGE/EQUIPMENT SUBSTITUTIONS.
 - AS-BUILT: UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH AS-BUILT DOCUMENTS ACCURATELY SHOWING THE MATERIALS AND EQUIPMENT AS INSTALLED. PROVIDE OPERATION AND MAINTENANCE MANUAL(S) CONTAINING APPROVED SHOP DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS FOR SWITCHGEAR, LIGHTING FIXTURES, CONTROLS, AND SPECIALTY EQUIPMENT.
 - GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER (LONGER IF REQUIRED BY GENERAL AND/OR SPECIAL CONDITIONS). IN ADDITION, THE INSTALLATION SHALL BE GUARANTEED TO PERFORM AS SPECIFIED AND FULFILL EACH AND EVERY REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS WHEN OPERATED IN ACCORDANCE WITH THE CONTRACTORS INSTRUCTIONS. SHOULD THE INSTALLATION IN ANY WAY FAIL TO DO SO, THE CONTRACTOR WILL, WITHOUT DELAY AND WITHOUT COST TO THE OWNER, PROVIDE WHATEVER ADDITIONAL EQUIPMENT, MATERIAL, AND LABOR REQUIRED TO CORRECT THE DEFICIENCY AND COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. WHERE SPECIFIED EQUIPMENT HAS A LONGER GUARANTEE PERIOD, THE TERM OF THAT GUARANTEE SHALL GOVERN (EXAMPLE: LED SYSTEM WITH 5-YEAR GUARANTEE). INCANDESCENT LAMPS ARE EXEMPT BUT SHALL BE NEW AND UNUSED AT THE TIME OF FINAL ACCEPTANCE.
 - BIDDING:
 - SITE VISIT: CONTRACT DOCUMENTS INDICATE NEW WORK TO BE PERFORMED AND DO NOT EXPECT TO SHOW ALL EXISTING CONDITIONS. VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS, COMPARE THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS AGAINST EXISTING CONDITIONS, AND IDENTIFY AND ANNOTATE ALL WORK OR CONDITIONS THAT ARE DIFFERENT FROM THE CONTRACT DOCUMENTS OR THEIR INTENT. UPON DISCOVERY, IMMEDIATELY NOTIFY AND REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER. NO EXTRAS OR CHANGE ORDERS WILL BE ALLOWED FOR FAILING TO PERFORM THE PRE-BID SITE VISIT.
 - BASIS OF PROPOSAL: THE PROPOSAL SHALL BE BASED ON MANUFACTURERS AND MODELS AS LISTED UNLESS "OR EQUAL" IS INDICATED. PROVIDE SUBSTITUTION REQUESTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING TO ALLOW TIME FOR DUE CONSIDERATION OF PROPOSED ALTERNATE AND SUBSEQUENT NOTIFICATION TO ALL OTHER BIDDERS IN THE EVENT SUBSTITUTION IS DEEMED ACCEPTABLE. THE DETERMINATION OF SUBSTITUTION EQUALITY RESTS SOLELY WITH THE ENGINEER.
 - BIDDING: THE CIVIL, ARCHITECTURAL, MECHANICAL, AND/OR INTERIOR DRAWINGS CONTAIN DETAILED DESCRIPTIONS, CIRCUITING, AND CONNECTION REQUIREMENTS WHICH ARE PART OF THIS CONTRACTOR'S RESPONSIBILITIES. DO NOT SUBMIT BIDS ON THIS PROJECT PRIOR TO REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS, AND ADDENDA.

- PART TWO - EXECUTION**
- UTILITY SERVICES: PROVIDE POWER SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. KIMLEY-HORN TO PROVIDE APC FLASH STUDY AND LABELING FOR CONTRACTOR INSTALLATION ON ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM AIR RATING SHALL EXCEED THE MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID. (UTILITY SERVICE AND LINE EXTENSION CHARGES PAID BY OTHERS).
 - LOCATIONS: INDICATED LOCATIONS OF EQUIPMENT ARE SUBJECT TO CHANGE. SHIFTER/LOCATER/CONFIGURE ANY OUTLET, EQUIPMENT, OR CONNECTION POINT UP TO 5' AS DIRECTED BY THE ENGINEER AT NO ADDED COST.
 - WORKMANSHIP: THE WORK SHALL BE WELL-SUPPORTED AND SOLIDLY MOUNTED. DRESS AND TIE WIRING IN PANELBOARDS AND SWITCHGEAR. THE WORK SHALL BE LEFT CLEAN WITH NO DIRT, DENTS, ABRASIONS, PAINT SPATTERS, OR OTHER IRREGULARITIES.
 - SLEEVES AND PENETRATIONS: PENETRATIONS OF ALL SURFACES SHALL BE PROVIDED WITH SLEEVES THAT SHALL BE SEALED WITH LIKE MATERIALS AND SHALL BE FINISHED WITH ESCUTCHEON PLATES. PENETRATIONS BELOW GRADE LEVEL SHALL BE WATER-TIGHT.
 - ELECTRICALLY-OPERATED EQUIPMENT: VERIFICATION AND SUBSTITUTION, FEEDERS AND OVER-CURRENT DEVICES INCLUDING STARTERS, DISCONNECTS, ETC.) HAVE BEEN DESIGNED BASED ON INFORMATION PROVIDED BY THE RESPONSIBLE CONSULTANT AND/OR DESIGNATED SUPPLIER. PRIOR TO PURCHASING, COORDINATE WITH THE APPROPRIATE TRADE AND/OR INSTALLER TO DETERMINE THAT THE ACTUAL NAMEPLATE ELECTRICAL REQUIREMENTS MATCH THIS DESIGN. ALL ADDITIONAL ELECTRICAL COSTS RELATED TO THE CONTRACT VARIATION FROM THE ORIGINAL SPECIFICATIONS SHALL BE RESOLVED BY THE CONSTRUCTION TEAM AT NO ADDITIONAL COST TO THE OWNER.
 - HOURS OF OPERATION: CONDUCT WORK TO MINIMIZE DISRUPTION OF THE OWNER'S ONGOING BUSINESS OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT, AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER, COMMUNICATIONS, AND/OR FIRE ALARM SYSTEMS SHALL BE PERFORMED ONLY AT SUCH TIMES AS DIRECTED BY THE OWNER OR RESIDENT ENGINEER. OUTAGES SHALL BE MOMENTARY IN NATURE. EACH SUCH OUTAGE (OR OPERATION WHICH MAY POSE A RISK OF AN ACCIDENTAL OUTAGE) SHALL BE SCHEDULED A MINIMUM OF FORTY- EIGHT (48) HOURS IN ADVANCE.

PROJECT RESPONSIBILITY MATRIX						
#	ITEM	CSI SPECIFICATION REFERENCE	FURNISHED BY	INSTALLED BY	NOTES	
1	EQUIPMENT WIRING	26 0509	C	C		
2	MEDIUM VOLTAGE CABLES	26 0513	C	C		
3	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	26 0519	C	C		
4	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	26 0526	C	C		
5	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	26 0529	C	C		
6	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	26 0533	C	C		
7	CABLE TRAYS FOR ELECTRICAL SYSTEMS	26 0536	C	C		
8	UNDERGROUND RACEWAYS	26 0543	C	C		
9	IDENTIFICATION FOR ELECTRICAL SYSTEMS	26 0553	C	C		
10	ELECTRICAL DISTRIBUTION SYSTEM STUDIES	26 0573	E	C	THE ELECTRICAL POWER SYSTEM STUDIES COMPLETED BY THE EOR AND DELIVERED TO THE CONTRACTOR DURING CONSTRUCTION.	
11	COMMISSIONING OF ELECTRICAL SYSTEMS	26 0800	A	A	COMMISSIONING COMPLETED BY A THIRD PARTY VENDOR MANAGED AND CONTRACTED BY AMAZON.	
12	ELECTRICAL TESTING	26 0805	A	A	ELECTRICAL TESTING COMPLETED BY A THIRD PARTY VENDOR MANAGED AND CONTRACTED BY AMAZON.	
13	MEDIUM-VOLTAGE TRANSFORMERS	26 1200	A	C	ALL ELECTRICAL GEAR PROCURED BY AMAZON - LUGS, T-BODIES, ELBOWS, AND BUSHING CONTRACTOR PROCURED.	
14	MEDIUM-VOLTAGE PAD MOUNTED SWITCHGEAR	26 1300	A	C	ALL ELECTRICAL GEAR PROCURED BY AMAZON.	
15	MEDIUM-VOLTAGE METERING	26 1600	U / A	U / C	FURNISHING OF UTILITY METERING EQPT VARIES PER PROJECT. COORDINATE WITH UTILITY REP FOR INSTALLATION SCOPE OF WORK.	
16	MEDIUM-VOLTAGE CIRCUIT PROTECTION DEVICES	26 1600	A	C	ALL ELECTRICAL GEAR PROCURED BY AMAZON.	
17	LOW-VOLTAGE TRANSFORMERS	26 2200	A	C	ALL ELECTRICAL GEAR PROCURED BY AMAZON.	
18	SWITCHBOARDS	26 2400	A	C	ALL ELECTRICAL GEAR PROCURED BY AMAZON.	
19	PANELBOARDS	26 2416	A	C	ALL ELECTRICAL GEAR PROCURED BY AMAZON.	
20	ELECTRICAL VEHICLE CHARGING EQUIPMENT	26 2713	A	C	ELECTRIC VEHICLE CHARGING EQUIPMENT PROCURED BY AMAZON.	
21	WIRING DEVICES	26 2726	C	C		
22	LOW-VOLTAGE CIRCUIT PROTECTION DEVICES	26 2800	A	C		
23	MANUFACTURED METAL BOLLARDS	32 3913	C	C	BOLLARDS FURNISHED BY CONTRACTOR VIA OWNER CERTIFIED VENDOR. COORDINATE WITH AMAZON TEAM FOR PROCUREMENT.	
24	EV CHARGER WITH PEDESTAL	34 8013	A	C		

ACRONYMS:
C = CONTRACTOR
A = AMAZON (OWNER)
U = UTILITY
E = ENGINEER OF RECORD

GENERAL NOTES:
1. FURNISH IS TO MEAN PROCURE AND DELIVER TO THE PROJECT SITE READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR ACTIVITIES.
2. INSTALL MEANS TO SET IN POSITION FOR SERVICE OR USE. INCLUDES ACTIVITIES AT SITE, SUCH AS UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, PROTECTING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING.
3. THE TABLE SHALL NOT BE CONSIDERED A COMPREHENSIVE LIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ANY ITEMS NOT LISTED IN THE TABLE ABOVE THAT ARE REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
4. FOR THE PURPOSE OF THE TABLE ABOVE, MATERIALS ARE TO BE FURNISHED BY THE INDICATED PARTY UNLESS OTHERWISE NOTED WITHIN THE CONTRACT DOCUMENTS.
5. ALL CIVIL WORK FURNISHED AND INSTALLED BY THE CONTRACTOR.

SCOPE ITEM	UTILITY RESPONSIBILITY MATRIX					COMMENTS
	UTILITY RESPONSIBILITY		ELECTRICAL CONTRACTOR		AMAZON	
	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	
EASEMENT OR RIGHT OF WAY				X	X	for to provide easement exhibit and survey. LEVWD to provide legal language. Amazon to provide recorded easement to LEVWD before construction. Language is found in LEVWD Construction Handbook
PRIMARY VOLTAGE INFRASTRUCTURE	*INCOMING VOLTAGE (PRIMARY SIDE): 24.98kV					
TERMINAL POLE AND FRAMING						N/A
PRIMARY FEEDER						N/A
PRIMARY TRENCHING			X	X		Per LEVWD Construction Handbook
PRIMARY CONDUIT			X	X		Per LEVWD Construction Handbook
PRIMARY CABLE	X	X	X	X		Per LEVWD Construction Handbook
PULLING WIRE (TENSION) STRING OR ROPE IN CONDUITS	X	X				
PRIMARY CABLE TERMINATION	X	X				Per LEVWD Construction Handbook
TRANSFORMER PAD	X	X				Per LEVWD Construction Handbook
UTILITY TRANSFORMER	X	X	X	X		Per LEVWD Construction Handbook
TRANSFORMER PRIMARY PROTECTION			X	X		Per LEVWD Construction Handbook
GROUNDING OF TRANSFORMER			X	X		Per LEVWD Construction Handbook
LOADBREAK CONNECTORS (ELBOWS)	X	X				
METERING						
*MOUNTING TYPE	X	X				Conduit style CTS installed in secondary of transformer. Meter socket installed per LEVWD Construction Handbook
*TRANSFORMER SECONDARY			X	X		Per LEVWD Construction Handbook
*CT CABINET						N/A
*INSTRUMENTATION ENCLOSURE	X	X				
POT SEQUENCE		X	X			
COLD SEQUENCE						N/A
METERING SOCKET	X			X		Per LEVWD Construction Handbook
METER BASE			X	X		Per LEVWD Construction Handbook
METER WIRE FROM METERING TRANSFORMERS TO METER SOCKET	X	X				
METERING CONDUIT FROM TRANSFORMERS TO METER JCT BOX		X	X	X		Per LEVWD Construction Handbook
TERMINATION	X	X	X	X		Per LEVWD Construction Handbook
METER BASE H-FRAME / PEDESTAL			X	X		Per LEVWD Construction Handbook
PROTECTION BARRIERS	X	X				
SECONDARY VOLTAGE INFRASTRUCTURE						
SECONDARY CONDUIT				X	X	
SECONDARY CONDUCTORS				X	X	
SECONDARY TERMINATIONS (TRANSFORMER SIDE)				X	X	
TRANSFORMER SECONDARY PROTECTION				X	X	

NOTE: IF NOT USED, ITEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

AMAZON APPLICABLE STANDARDS	
AMZL ENERGY - NA EV INFRASTRUCTURE - AOR DESIGN GUIDELINES REV2.0	PUBLISHED: 02/08/2023
AMZL ENERGY - ELECTRICAL DESIGN STANDARDS - REV1.3	PUBLISHED: 04/28/2023
AMZL EV CHARGING ELECTRICAL DESIGN STANDARDS - REV1.2	PUBLISHED: 07/14/2023
AMZL DESIGN CRITERIA AND OUTLINE SPECIFICATIONS - VERSION 9	ISSUED: 06/02/2023
AMZL SITE DESIGN GUIDELINE - VERSION 6	ISSUED: 08/08/2022
AMZL DESIGN DELIVERABLE REQUIREMENTS - VERSION 3	ISSUED: 02/11/2022

TYPICAL ABBREVIATIONS	
A	AMPERE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ART	ARTICLE
AUX	AUXILIARY
BAY	BAYONET FUSE
BLDG	BUILDING STRUCTURE
CL	CENTER LINE
CLF	CURRENT LIMITING FUSE
CLR	CLEARANCE
CONC	CONCRETE
CU	COPPER
DC	DIRECT CURRENT
EXIST	EXISTING
EGC	EQUIPMENT GROUNDING CONDUCTOR
ESA	ENVIRONMENTAL SITE ASSESSMENT
EMT	ELECTRIC METALLIC TUBING
EQPT	EQUIPMENT
EV	ELECTRIC VEHICLE
EVCS	ELECTRIC VEHICLE CHARGING STATION
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT
EVSS	ELECTRIC VEHICLE SWITCH GEAR
EAS	EROSION AND SEDIMENT CONTROL
FSC	FUTURE SERVICE CENTER
GALV	GALVANIZED
GND	GROUND
HDS	HOT DIPPED GALVANIZED
I	CURRENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LV	LOW VOLTAGE ENCLOSURE
M	METER
MAX	MAXIMUM
MIN	MINIMUM
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NOT TO SCALE	NOT TO SCALE
ON CENTER	ON CENTER
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
RMC	RIGID METALLIC CONDUIT
SCHED	SCHEDULE
SS	STAINLESS STEEL
SSWR	SANITARY SEWER
TYPE	TYPE
UNLESS OTHERWISE NOTED	UNLESS OTHERWISE NOTED
UV	ULTRAVIOLET
V	VOLT
TRANSFORMER	TRANSFORMER

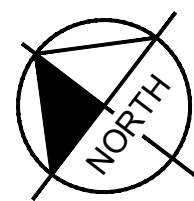
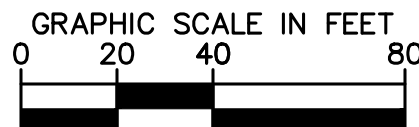
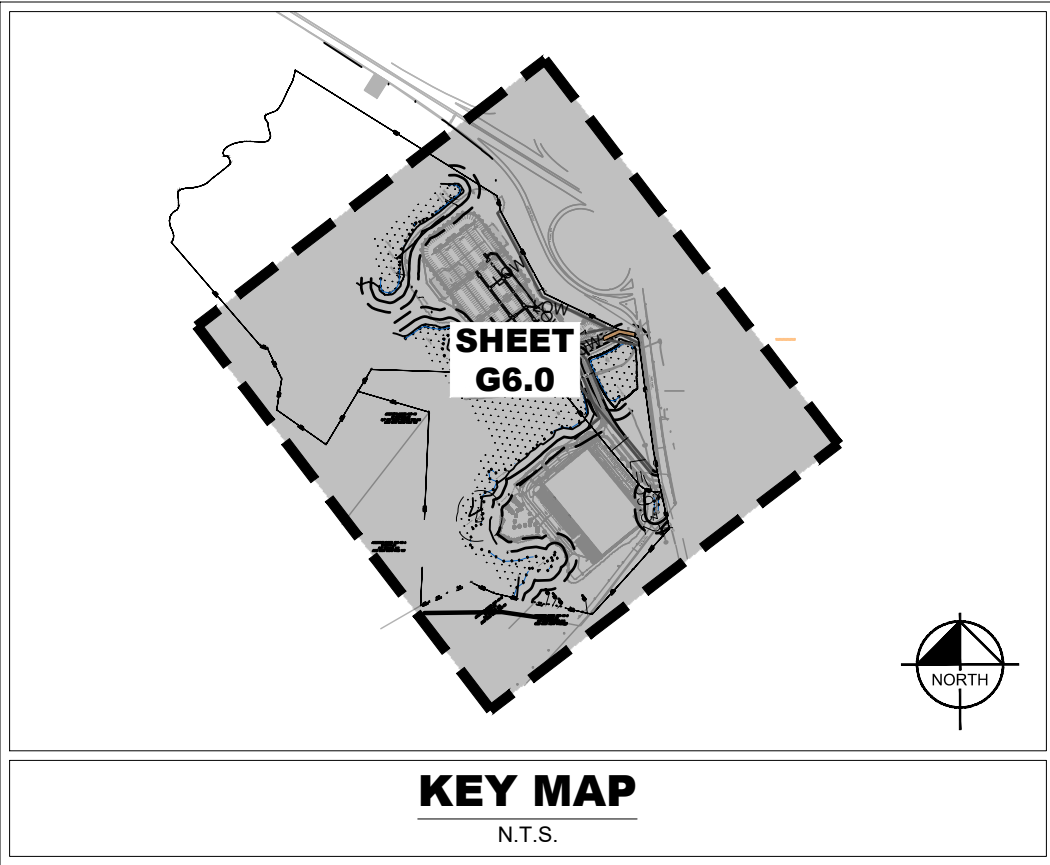
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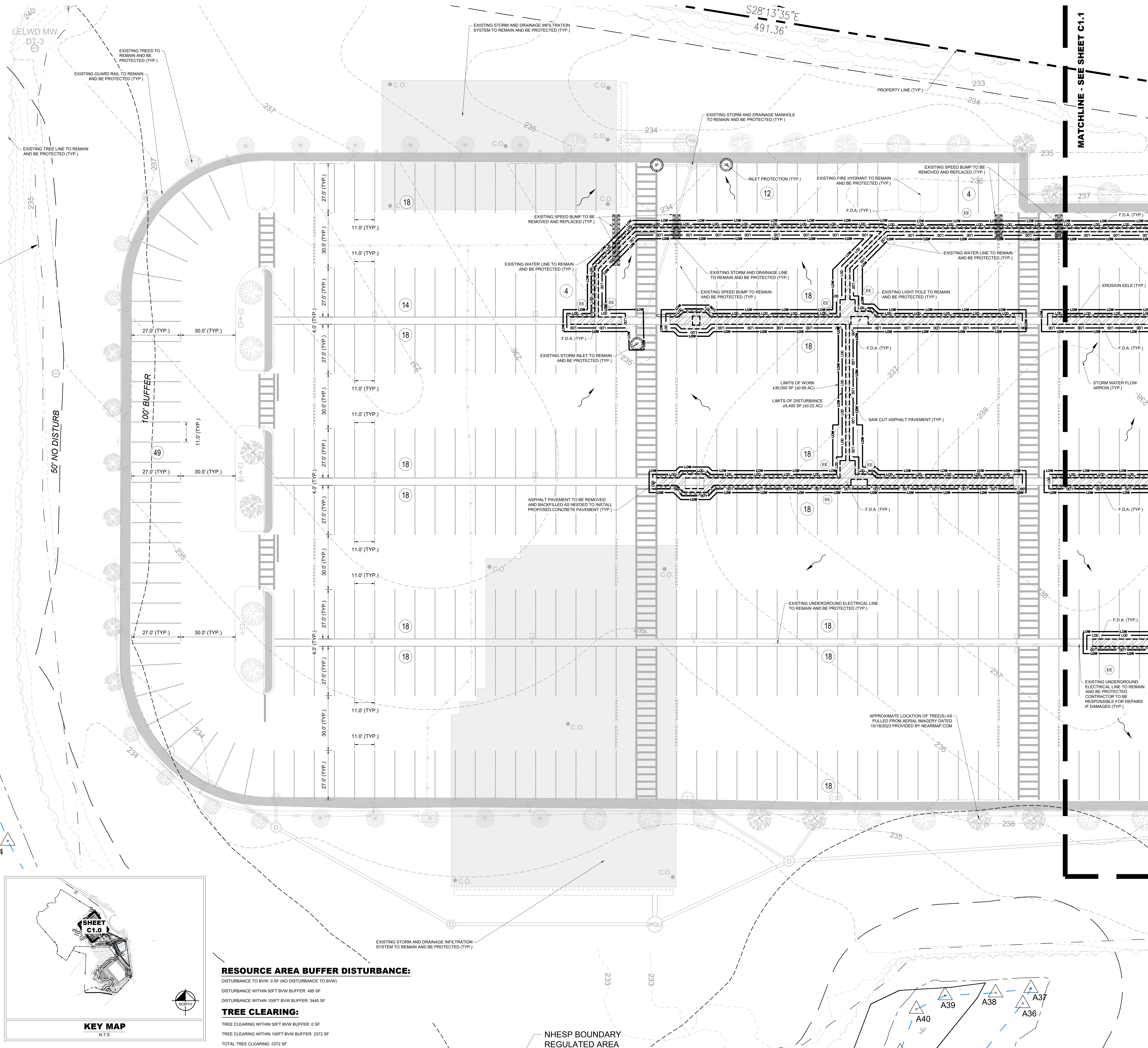
UTILITY NOTE:

THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED UPON RECORD DRAWINGS PROVIDED BY AMAZON AND BY A UTILITY LOCATING IN NATURE. THE CONTRACTOR SHALL FIELD DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT ANY DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED INFRASTRUCTURE TO ENGINEER PRIOR TO CONSTRUCTION. REFER TO DEMOLITION SECTION OF GEOTECH REPORT FOR FURTHER RECOMMENDATIONS.

SETBACK NOTE:

THE CONTRACTOR TO VERIFY THAT LOCATIONS OF ALL PROPOSED EVGS ELECTRICAL EQUIPMENT ARE IN COMPLIANCE WITH ALL LOCAL CODES, SETBACKS, AND BUFFERS.





NHESP BOUNDARY
REGULATED AREA

LEGEND	
ITEM	DESCRIPTION
	PROPERTY LINE
	SETBACK LINE
	BUFFER LINE
	EASEMENT LINE
	N/HESP BOUNDARY LINE
	FEMA FLOOD BOUNDARY LINE
	WETLAND BOUNDARY LINE
	EXISTING UNDERGROUND POWER CONDUIT LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING STORM AND DRAINAGE LINE
	EXISTING SANITARY SEWER LINE
	EXISTING SPEED BUMP
	EXISTING LIGHT POLE
	EXISTING BOLLARD
	EXISTING FENCE LINE
	EXISTING FIRE HYDRANT
	EXISTING GUARD RAIL
	EXISTING SIGN
	EXISTING STRUCTURE
	EXISTING TREE
	EXISTING TREE LINE
	EXISTING L2 ELECTRIC VEHICLE CHARGING STATION
	LIMITS OF DISTURBANCE = ±3.415 SF (±0.08 AC)
	LIMITS OF WORK = ±30,000 SF (±0.69 AC)
	EXISTING PARKING STRIPING TO BE REMOVED
	PERVIOUS AREA REMOVAL
	FULL-DEPTH CONCRETE PAVEMENT / CURBING REMOVAL
	FULL-DEPTH ASPHALT PAVEMENT REMOVAL
	ASPHALT / CONCRETE PAVEMENT SAW CUT LINE
	STORMWATER FLOW DIRECTION ARROW
	SE [®] SILT FENCE
	EROSION EEL / FILTER SOCK
	INLET PROTECTION
	TREE PROTECTION
	CONCRETE WASHOUT AREA
	BORING LOCATION INDICATOR
	REGRADE & RESTORE PERVIOUS AREA - BUFFER DISTURBANCE
	REGRADE & RESTORE PERVIOUS AREA - TREE CLEARING
	REGRADE & RESTORE PERVIOUS AREA - BUFFER & TREE CLEARING

FOR THE PURPOSE OF THIS PLAN, THE LIMITS OF WORK (LOW) REFER TO THE APPROXIMATE BOUNDARY WITHIN WHICH THE INSTALLATION OF THE EV INFRASTRUCTURE WILL OCCUR. THE LIMITS OF DISTURBANCE (LOD) IS THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, CLEARING, EXCAVATION, GRADING, AND RELATED ACTIVITIES SHALL OCCUR. THE LOW ENCOMPASSES THE LOD SHOWN ON THIS PLAN.

THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED UPON RECORD DRAWINGS PROVIDED BY AMAZON AND ARE ILLUSTRATIVE IN NATURE. THE CONTRACTOR SHALL FIELD DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED INFRASTRUCTURE TO ENGINEER PRIOR TO CONSTRUCTION. REFER TO DEMOLITION SECTION OF GEOTECH REPORT FOR FURTHER RECOMMENDATIONS.

2. SEE ADDITIONAL DEMOLITION NOTES ON SHEET G1.0.
3. CONTRACTOR SHALL PHASE WORK SO THAT EMPLOYEE ACCESS TO BUILDING ENTRANCES WILL REMAIN OPEN.
4. CONTRACTOR SHALL REMOVE EXISTING CURB AND GUTTER TO EXISTING ASPHALT PAVEMENT.
5. CONTRACTOR TO LOCATE ALL PRIVATE AND PUBLIC UTILITIES ON SITE WITHIN WORK AREAS.
6. CONTRACTOR TO TAKE EXTRA CAUTION TO AVOID DAMAGE TO ELECTRICAL, TELEPHONE, CABLE, GAS, WATER, AND SEWER LINES.
7. CONTRACTOR SHALL REMOVE ANY DAMAGED OR DESTROYED UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL REMOVE TREE ROOTS AS NECESSARY TO PERFORM REMEDIALS INDICATED. WHEN ROOT CUTTING IS UNAVOIDABLE, A CLEAN SHARP CUT SHALL BE MADE TO AVOID DAMAGE TO TRUNK AND BRANCHES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLANTING TO A SIMILAR, WHENEVER POSSIBLE. TREE ROOTS SHOULD BE CUT BETWEEN LATE FALL AND BUD OPENING. WHEN ROOT ENERGY SUPPLIES ARE HIGH AND CONDITIONS ARE LEAST FAVORABLE FOR FOSIDATION, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ROOTS IMMEDIATELY TO PREVENT DEHYDRATION. ROOTS SHALL BE COVERED WITH SOIL OR BURLAP AND KEPT MOIST.
9. EXISTING ASPHALT AND CONCRETE PAVEMENT SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF A MINIMUM 4" WIDE SECTION FOR CONSTRUCTION AND PLACEMENT OF NEW ASPHALT OR CONCRETE PAVEMENT PLACED TO NEW CONCRETE. CONTRACTOR SHALL MATCH EXISTING ASPHALT SECTION.
10. ASPHALT PAVEMENT TO BE REMOVED AND BACKFILLED AS NECESSARY TO INSTALL PROPOSED CURB AND GUTTER. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ALL OTHER CONCRETE AND ASPHALT PAVEMENT SHALL BE COMPLETED PRIOR TO BEGINNING SEAL COAT OPERATIONS.
11. ALL DIMENSIONS SHALL BE THE FACE OF CURB UNLESS NOTED OTHERWISE.

DEMOLITION QUANTITIES TABLE		
ID	DESCRIPTION	QTY.
F.D.A.	FULL-DEPTH REMOVAL OF ASPHALT PAVEMENT	±5,500 SQ YD
F.D.C.	FULL-DEPTH REMOVAL OF EXISTING CONCRETE PAVEMENT	±30 SQ YD
P.A.	REMOVAL OF PERVIOUS AREA	±4,050 SQ YD
C.C.	REMOVAL OF CONCRETE CURBING	±10 LBS

NOTE: THE DEMOLITION QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE CLIENT AND ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BIDDING AND CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

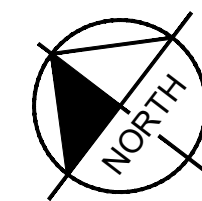
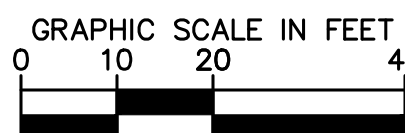
1. ALL 3:1 OR STEEPER SLOPES TO BE STABILIZED WITHIN 7 DAYS.
2. ALL DISTURBED AREAS TO BE LOAMED AND SEEDED WITH 'NEW ENGLAND SEMI-SHADY GRASS AND FORBS MIX' BY NEW ENGLAND WETLAND PLANTS, 15 PEARL LANE, SOUTH HADLEY, MA 01075 OR APPROVED EQUAL.

TREE PROTECTION FENCING IS TO REMAIN IN PLACE UNTIL FINAL INSPECTION AND SIGN-OFF ON THE MASTER BUILDING PERMIT AND CERTIFICATE OF OCCUPANCY BY THE URBAN FORESTER. STORMWATER SIGN-OFF AND REMOVAL OF EROSION CONTROL MEASURES IS NOT JUSTIFICATION TO REMOVE TREE PROTECTION FENCING.

- CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCES, SILT FENCE, TREE PROTECTION FENCING, FIBER ROLLS, AND CONCRETE WASHOUTS ON-SITE PRIOR TO DEMOLITION BEGINNING.
- SILT FENCE IS TO BE INSTALLED AROUND ALL BIORETENTION AREAS TO PROTECT FROM SOIL COMPACTION DURING CONSTRUCTION.
- AFTER PERIMETER MEASURES ARE INSTALLED, CONTRACTOR SHALL SUBMIT A PRE-CONSTRUCTION EROSION CONTROL PLAN TO THE CITY.
- CONTRACTOR TO CONTACT AHA TO OBTAIN STORMWATER PERMIT. THE CONTRACTOR SHALL CONTACT APPROPRIATE PARTY FOR INSPECTION OF EROSION CONTROL DEVICES.
- ALL 3:1 OR STEEPER SLOPES TO BE STABILIZED WITHIN 7 DAYS.

- CONTRACTOR TO CLEAR, GRUB, EXCAVATE EXISTING UTILITIES ON-SITE AND GRADE REMAINING SITE.
- INSTALL PROPOSED UTILITIES.
- CONSTRUCT REMAINING SITE ACCORDING TO THE APPROVED PLANS, OR AS INSTRUCTED BY THE EROSION CONTROL INSPECTOR.
- PERMANENTLY STABILIZE SITE.
- UPON PERMANENT SITE STABILIZATION, REMOVE ALL TEMPORARY EROSION SEDIMENT CONTROL MEASURES.
- FINISH INSTALLING PERMANENT STORMWATER BMP'S SHOWN ON PLANS.

DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED INFRASTRUCTURE TO ENGINEER PRIOR TO CONSTRUCTION. REFER TO DEMOLITION SECTION OF GEOTECH REPORT FOR FURTHER RECOMMENDATIONS.

DKO1_EV
EV INFRASTRUCTURE PLAN

Kimley»»Horn

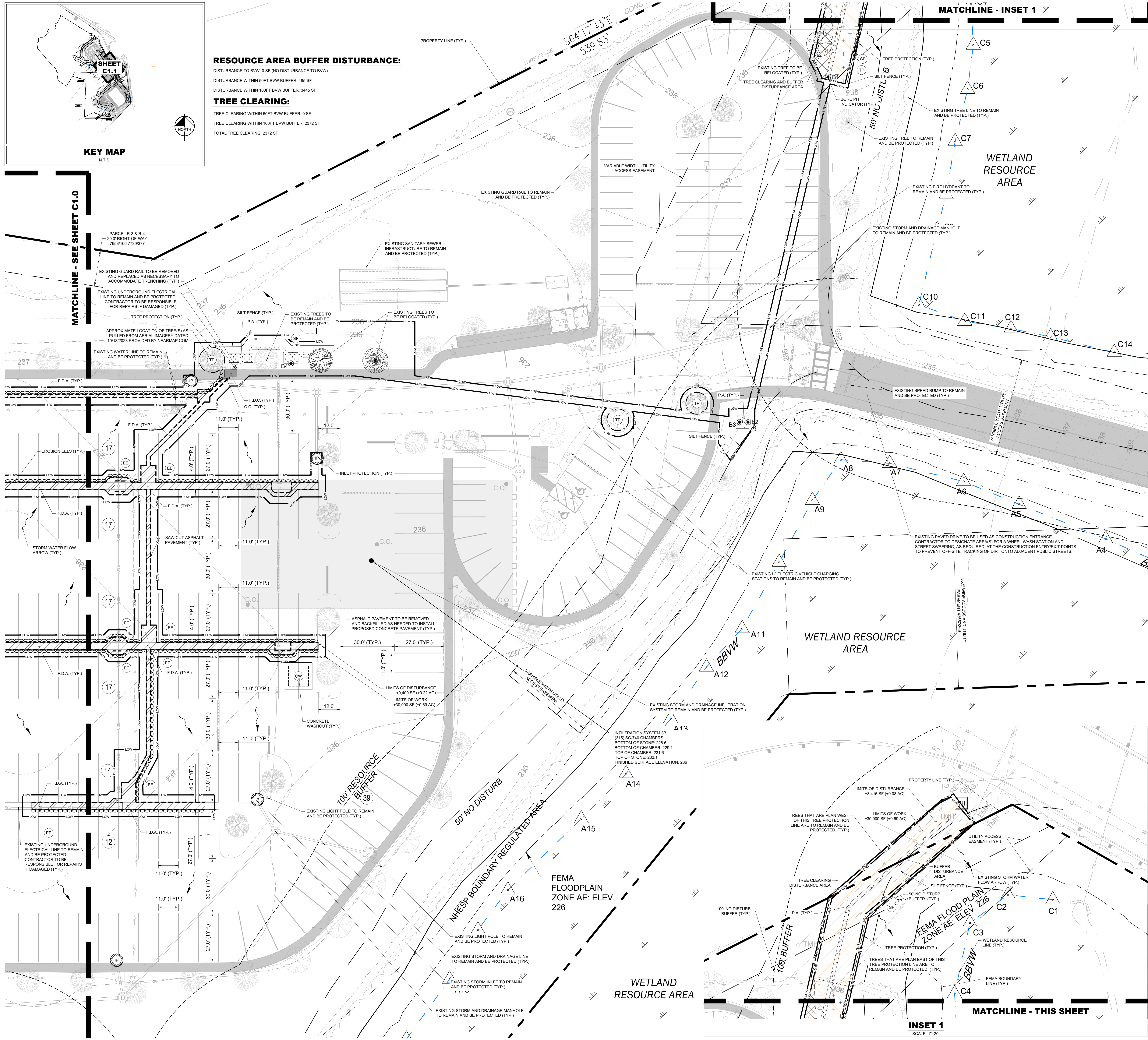
404 WYMAN ST, SUITE 385, WALTHAM, MASSACHUSETTS 02451
Main: 781-328-0676 | www.kimley-horn.com

ST, SUITE 385, WALTHAM, MASSACHUSETTS
Main: 781-328-0676 | www.kimley-horn.com

FIBER

C1.0

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LEGEND	
ITEM	DESCRIPTION
---	PROPERTY LINE
---	SETBACK LINE
---	BUFFER LINE
---	EASEMENT LINE
---	NHESP BOUNDARY LINE
---	FEMA FLOOD BOUNDARY LINE
---	WETLAND BOUNDARY LINE
---	EXISTING UNDERGROUND POWER CONDUIT LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING WATER LINE
---	EXISTING STORM AND DRAINAGE LINE
---	EXISTING SANITARY SEWER LINE
---	EXISTING SPEED BUMP
---	EXISTING LIGHT POLE
---	EXISTING BOLLARD
---	EXISTING FENCE LINE
---	EXISTING FIRE HYDRANT
---	EXISTING GUARD RAIL
---	EXISTING SIGN
---	EXISTING STRUCTURE
---	EXISTING TREE
---	EXISTING TREE LINE
---	EXISTING L2 ELECTRIC VEHICLE CHARGING STATION
---	EV VAN STALL PARKING COUNT
---	LIMITS OF DISTURBANCE = ±3,415 SF (±0.08 AC)
---	LIMITS OF WORK = ±30,000 SF (±0.69 AC)
---	EXISTING PARKING STRIPING TO BE REMOVED
---	PERVIOUS AREA REMOVAL
---	FULL-DEPTH CONCRETE PAVEMENT / CURBING REMOVAL
---	FULL-DEPTH ASPHALT PAVEMENT REMOVAL
---	ASPHALT / CONCRETE PAVEMENT SAW CUT LINE
---	STORMWATER FLOW DIRECTION ARROW
---	SILT FENCE
---	EROSION EEL / FILTER SOCK
---	INLET PROTECTION
---	TREE PROTECTION
---	CONCRETE WASHOUT AREA
---	BORING LOCATION INDICATOR
---	REGRADE & RESTORE PERVIOUS AREA - BUFFER DISTURBANCE
---	REGRADE & RESTORE PERVIOUS AREA - TREE CLEARING
---	REGRADE & RESTORE PERVIOUS AREA - BUFFER & TREE CLEARING

DISTURBANCE NOTE:
FOR THE PURPOSE OF THIS PLAN, THE LIMITS OF WORK (LOW) REFER TO THE APPROXIMATE BOUNDARY WITHIN WHICH THE INSTALLATION OF THE EV INFRASTRUCTURE WILL OCCUR. THE LIMITS OF DISTURBANCE (LOD) IS THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, CLEARING, EXCAVATION, GRADING, AND RELATED ACTIVITIES SHALL OCCUR. THE LOW ENCOMPASSES THE LOD SHOWN ON THIS PLAN.

UTILITY NOTE:
THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED UPON RECORD DRAWINGS PROVIDED BY AMAZON AND ARE ILLUSTRATIVE IN NATURE. THE CONTRACTOR SHALL FIELD DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED INFRASTRUCTURE TO ENGINEER PRIOR TO CONSTRUCTION. REFER TO DEMOLITION SECTION OF GEOTECH REPORT FOR FURTHER RECOMMENDATIONS.

- DEMOLITION NOTES:**
- SEE ADDITIONAL DEMOLITION NOTES ON SHEET C1.0.
 - CONTRACTOR SHALL PHASE WORK SO THAT EMPLOYEE ACCESS TO BUILDING ENTRANCES REMAIN OPEN AT ALL TIMES.
 - CONTRACTOR TO LOCATE ALL PRIVATE AND PUBLIC UTILITIES ON SITE WITHIN WORK AREAS. CONTRACTOR TO TAKE EXTRA CAUTION TO AVOID DAMAGE TO ELECTRICAL, TELEPHONE, IRRIGATION, AND OTHER CONDUITS TYPICALLY FOUND IN THE UPPER FEW FEET OF GROUND. CONTRACTOR SHALL REPLACE ANY DAMAGED OR DESTROYED UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR TO REMOVE TREE ROOTS AS NECESSARY TO PERFORM REPAIRS INDICATED. WHEN ROOT CUTTING IS UNAVOIDABLE, A CLEAN SHARP CUT SHALL BE MADE TO AVOID SHREDDING OR SMASHING. ROOT CUTS SHOULD BE MADE BACK TO A LATERAL ROOT. WHENEVER POSSIBLE, TREE ROOTS SHOULD BE CUT BETWEEN LATE FALL AND BUD OPENING, WHEN ROOT ENERGY SUPPLIES ARE HIGH AND CONDITIONS ARE LEAST FAVORABLE FOR DISEASE-CAUSING AGENTS. EXPOSED ROOTS SHALL BE COVERED IMMEDIATELY TO PREVENT DEHYDRATION. ROOTS SHALL BE COVERED WITH SOIL OR MULCH AND KEPT MOIST.
 - EXISTING ASPHALT / CONCRETE PAVEMENT SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF A MINIMUM 2" WIDE SECTION FOR CONSTRUCTION AND PLACEMENT OF CONCRETE FORMS WHERE ADJACENT TO NEW CONCRETE. CONTRACTOR SHALL MATCH EXISTING ASPHALT SECTION.
 - ASPHALT PAVEMENT TO BE REMOVED AND BACKFILLED AS NEEDED TO INSTALL PROPOSED CONCRETE EQUIPMENT PADS(S) / PAVEMENT WHERE APPLICABLE.
 - ALL OTHER CONCRETE AND ASPHALT REPAIRS SHALL BE COMPLETED PRIOR TO BEGINNING SEAL COAT OPERATIONS.
 - ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.

DEMOLITION QUANTITIES TABLE		
ID	DESCRIPTION	QTY.
F.D.A.	FULL-DEPTH REMOVAL OF ASPHALT PAVEMENT	±5,500 SF
F.D.C.	FULL-DEPTH REMOVAL OF EXISTING CONCRETE PAVEMENT	±30 SF
P.A.	REMOVAL OF PERVIOUS AREA	±4,050 SF
C.C.	REMOVAL OF CONCRETE CURBING	±10 LF

NOTE: THE DEMOLITION QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE CLIENT AND ARE TO BE CONSIDERED APPROXIMATE. ACTUAL QUANTITIES FOR BIDDING AND CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SLOPE STABILIZATION NOTE:

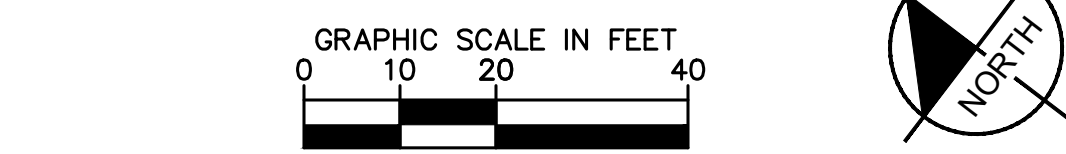
- ALL 3:1 OR STEEPER SLOPES TO BE STABILIZED WITHIN 7 DAYS.
- ALL DISTURBED AREAS TO BE LOADED AND SEEDED WITH "NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX" BY NEW ENGLAND WETLAND PLANTS, 15 PEARL LANE, SOUTH HADLEY, MA 01075 OR APPROVED EQUAL.

TREE PROTECTION NOTE:
TREE PROTECTION FENCING IS TO REMAIN IN PLACE UNTIL FINAL INSPECTION AND SIGN-OFF ON THE MASTER BUILDING PERMIT AND CERTIFICATE OF OCCUPANCY BY THE URBAN FORESTER. STORMWATER SIGN-OFF AND REMOVAL OF EROSION CONTROL MEASURES IS NOT JUSTIFICATION TO REMOVE TREE PROTECTION FENCING.

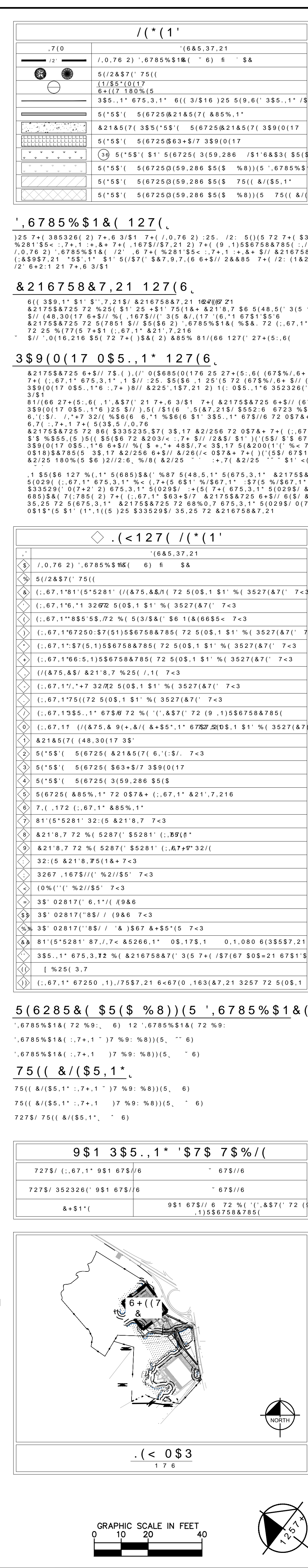
E&S CONSTRUCTION SEQUENCE	
INITIAL E&S	
<ul style="list-style-type: none">CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCES, SILT FENCE, TREE PROTECTION FENCING, FIBER OPTICS, AND CONCRETE WASHOUTS ON-SITE PRIOR TO DEMOLITION BEGINNING.SILT FENCE IS TO BE INSTALLED AROUND ALL BIOTRENTAL AREAS TO PROTECT FROM SOIL COMPACTION DURING CONSTRUCTION.AFTER PERIMETER MEASURES ARE INSTALLED, CONTRACTOR SHALL SCHEDULE PRE-CONSTRUCTION MEETING WITH AHI.CONTRACTOR TO CONTACT AHI TO OBTAIN STORMWATER PERMIT. THE CONTRACTOR SHALL CONTACT APPROPRIATE PARTY FOR INSPECTION OF EROSION CONTROL DEVICES.ALL 3:1 OR STEEPER SLOPES TO BE STABILIZED WITHIN 7 DAYS.	
FINAL E&S	
<ul style="list-style-type: none">CONTRACTOR TO CLEAR, GRUB, EXCAVATE EXISTING UTILITIES ON-SITE AND GRADE REMAINING SITE.INSTALL PROPOSED UTILITIES.CONSTRUCT REMAINING SITE ACCORDING TO THE APPROVED PLANS, OR AS INSTRUCTED BY THE EROSION CONTROL INSPECTOR.PERMANENTLY STABILIZE SITE.UPON PERMANENT SITE STABILIZATION, REMOVE ALL TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.FINISH INSTALLING PERMANENT STORMWATER BMP'S SHOWN ON PLANS.	

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED INFRASTRUCTURE TO ENGINEER PRIOR TO CONSTRUCTION. REFER TO DEMOLITION SECTION OF GEOTECH REPORT FOR FURTHER RECOMMENDATIONS.

SETBACK NOTE:



REVISIONS		DATE	BY
OVERALL TREE PLANTING PLAN		10/22/2024	FM
CLIENT DIRECTED CHANGES		10/11/2024	JG
CLIENT DIRECTED CHANGES		12/20/2024	KN
DESIGNED BY:		LKC	
DRAWN BY:		JWG	
CHECKED BY:		AA	
DATE:		12/20/2024	
KIMLEY-HORN PROJECT NO.		115319907	
EXISTING CONDITIONS, DEMOLITION, AND E&S PLAN			
SHEET NUMBER			
C1.1			

[illegible]

[illegible]

DISBURSANCE NOTE:

FOR THE DURATION OF THIS PLAN, THE LIMITS OF WORK (LOW) REFER TO THE APPROXIMATE BOUNDARY WITHIN WHICH THE INSTALLATION OF THE EV INFRASTRUCTURE WILL OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, CONSTRUCTION, CLEANING, EXCAVATION, GRADING, AND RELATED ACTIVITIES SHALL OCCUR. THE LOW ENCOMPASSES THE LOW SHOWN ON THIS PLAN.

CONSTRUCTION NOTES:

- 1. SEE PAYMENT AND ADDITIONAL CONSTRUCTION NOTES ON SHEET G10.
- 2. CONTRACTOR TO BORE AND HAND-TENDRITCH CONDUIT AS REQUIRED PER NEC.
- 3. ALL EQUIPMENT SHALL BE INSTALLED PER CLIENT DESIGN STANDARDS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISBURSANCE BACK TO EXISTING GRADE AND UP TO OR BETTER THAN EXISTING CONDITIONS.
- 5. ALL DIVISIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.

PAVEMENT MARKING NOTES:

- 1. CONTRACTOR SHALL TAKE FIELD MEASUREMENTS OR OTHERWISE ESTABLISH A SURVEY OF THE EXISTING STRIPING IN ALL WORK AREAS IN ORDER TO ESTABLISH EXISTING STRIPING AND PAVEMENT MARKINGS TO BE MAINTAINED OR REPRODUCED ON THIS PLAN.
- 2. FOR OTHER MARKINGS INDICATED ON THIS PLAN, THE CONTRACTOR SHALL ESTABLISH PAVEMENT MARKINGS FOR ALL FIRE LINES, DIRECTIONAL ARROWS, STOP BARS, CURBS, SIDEWALK, LIGHT POLE BASES, SIGN BASES AND PARKING STALLS TO MATCH THE EXISTING STRIPING AND PAVEMENT MARKINGS.
- 3. CONTRACTOR TO USE APPROPRIATE PAINT COLORS TO MATCH THE EXISTING FEATURES.
- 4. ALL PAINT SHALL BE FEDERAL SPECIFICATION TYPE 1 AND FEDERAL AASHTO STANDARDS.
- 5. PAVEMENT MARKINGS SHALL BE A HIGH QUALITY PAINT RECOMMENDED BY THE STATE OF CALIFORNIA.
- 6. PAVEMENT MARKING SHALL MEET THE FEDERAL SPECIFICATION 559B COLOR NUMBER AS FOLLOWS: BLUE-COLOR 1510B, WHITE-COLOR 3725B AND YELLOW-COLOR 3335B.
- 7. PAVEMENT SHALL NOT BE RESURFACED BUT REQUIRING RESTRIPESTRIP, CONTRACTOR SHALL REMOVE EXISTING STRIPING BY EITHER SAND BLASTING, WATER BLASTING, OR BY ANOTHER MEANS OF REMOVED MATERIALS TO EXPOSE THE EXISTING PAVEMENT SURFACE.
- 8. SURFACE TEXTURE OF THE EXISTING ASPHALT, CONTRACTOR SHALL SEAL COAT THE AREA TO BE REPAIRED, CONTRACTOR TO SUBMIT PROPOSAL FOR SEAL COAT TO PROPERTY MANAGER AND ENGINEER FOR APPROVAL, PRIOR TO CONSTRUCTION.

RESOURCE AREA BUFFER DISTURBANCE:

DISTURBANCE TO BVW: 0 SF (NO DISTURBANCE TO BVW)

DISTURBANCE WITHIN 50FT BVW BUFFER: 495 SF

DISTURBANCE WITHIN 100FT BVW BUFFER: 3445 SF

TREE CLEARING:

TREE CLEARING WITHIN 50FT BVW BUFFER: 0 SF

TREE CLEARING WITHIN 100FT BVW BUFFER: 2372 SF

TOTAL TREE CLEARING: 2372 SF

KEY MAP

N.T.S.

BY		DATE	REVISIONS	
No.	1	10/02/2024	FM	OVERALL TREE PLANTING PLAN
2	10/11/2024	JG	CLIENT DIRECTED CHANGES	
3			CLIENT DIRECTED CHANGES	
4	12/20/2024	KN	CLIENT DIRECTED CHANGES	
5				
6				
7				
8				
9				
10				
11				

DESIGNED BY: LKC

DRAWN BY: JWG

CHECKED BY: JWG

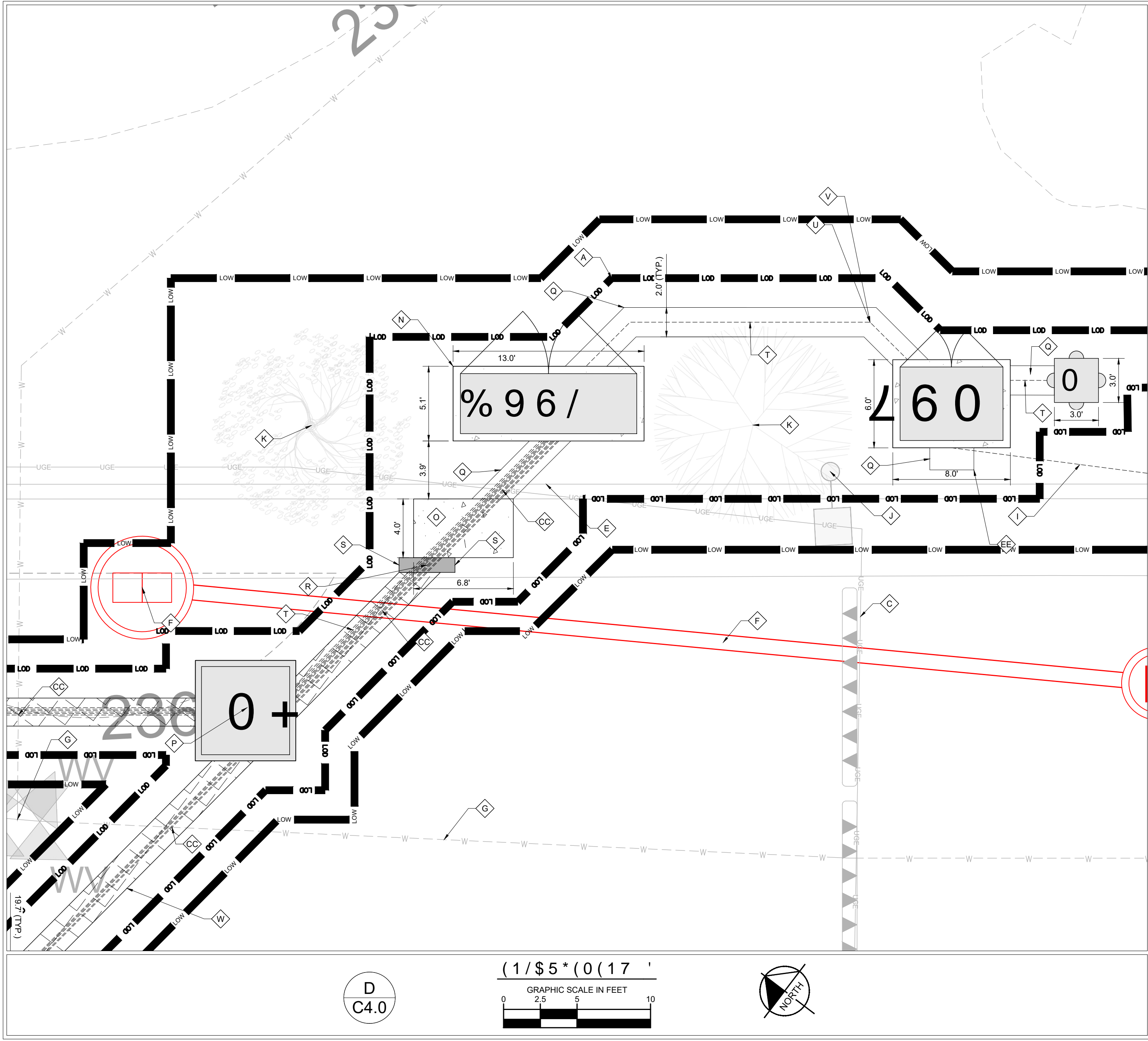
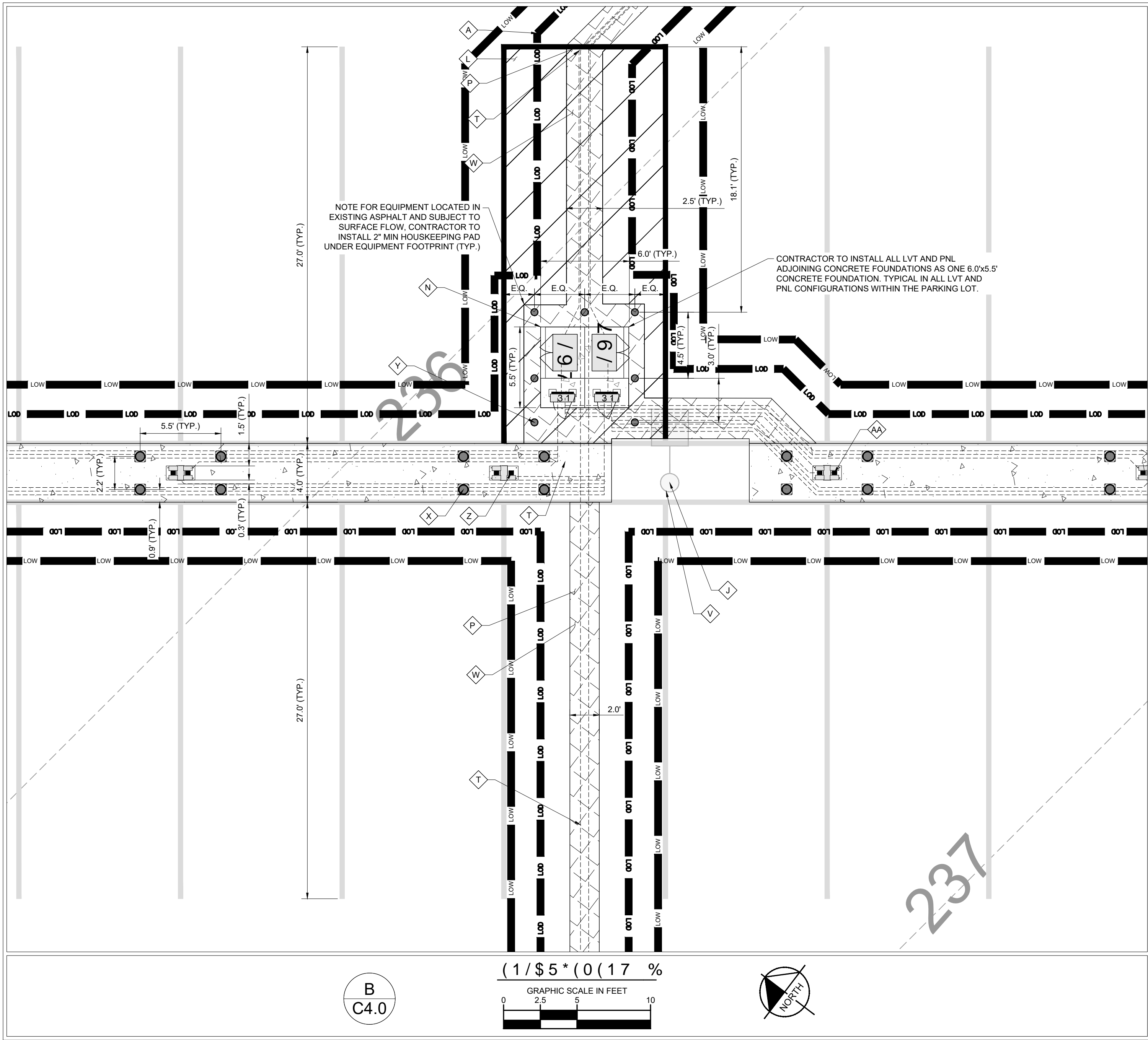
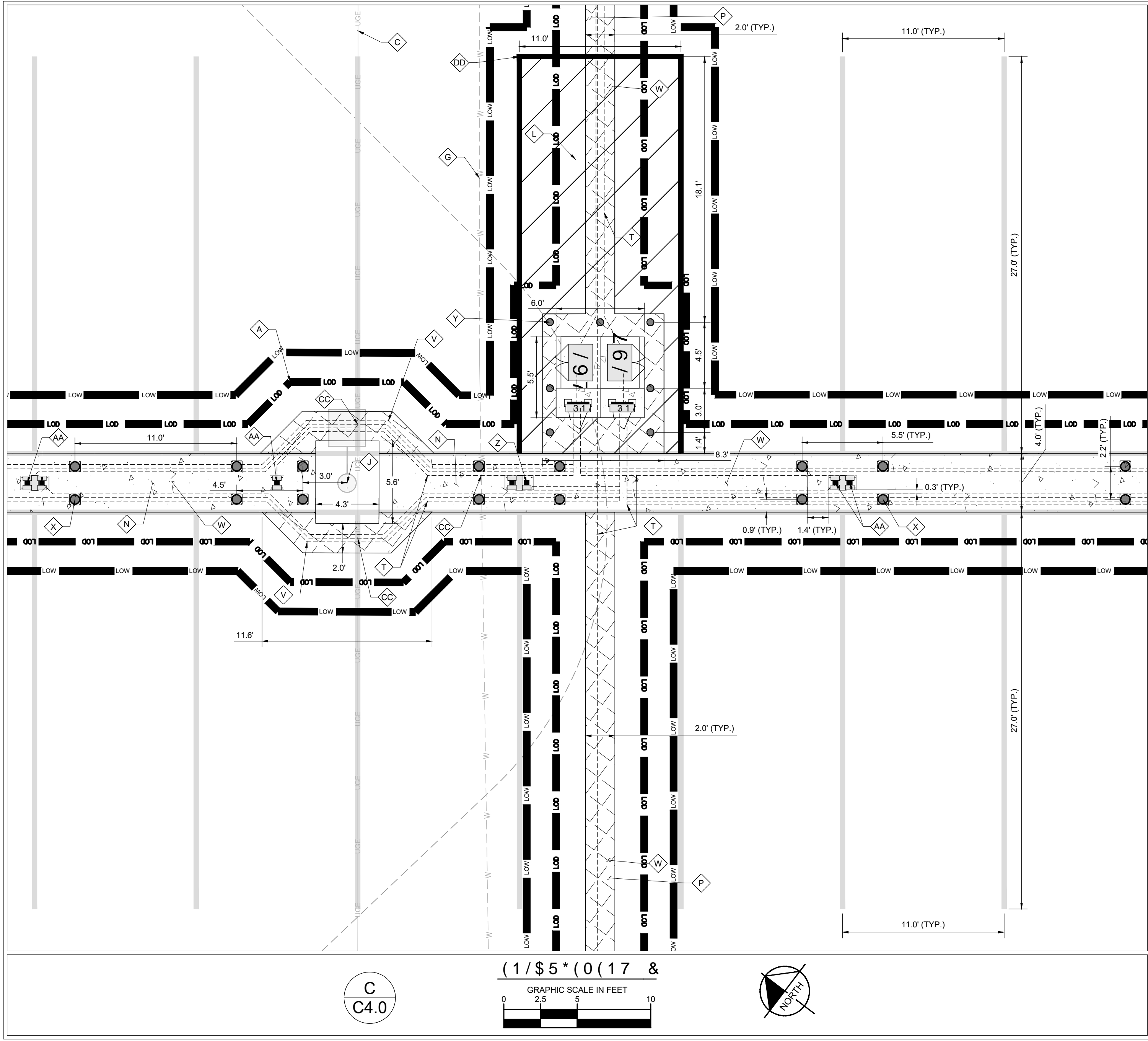
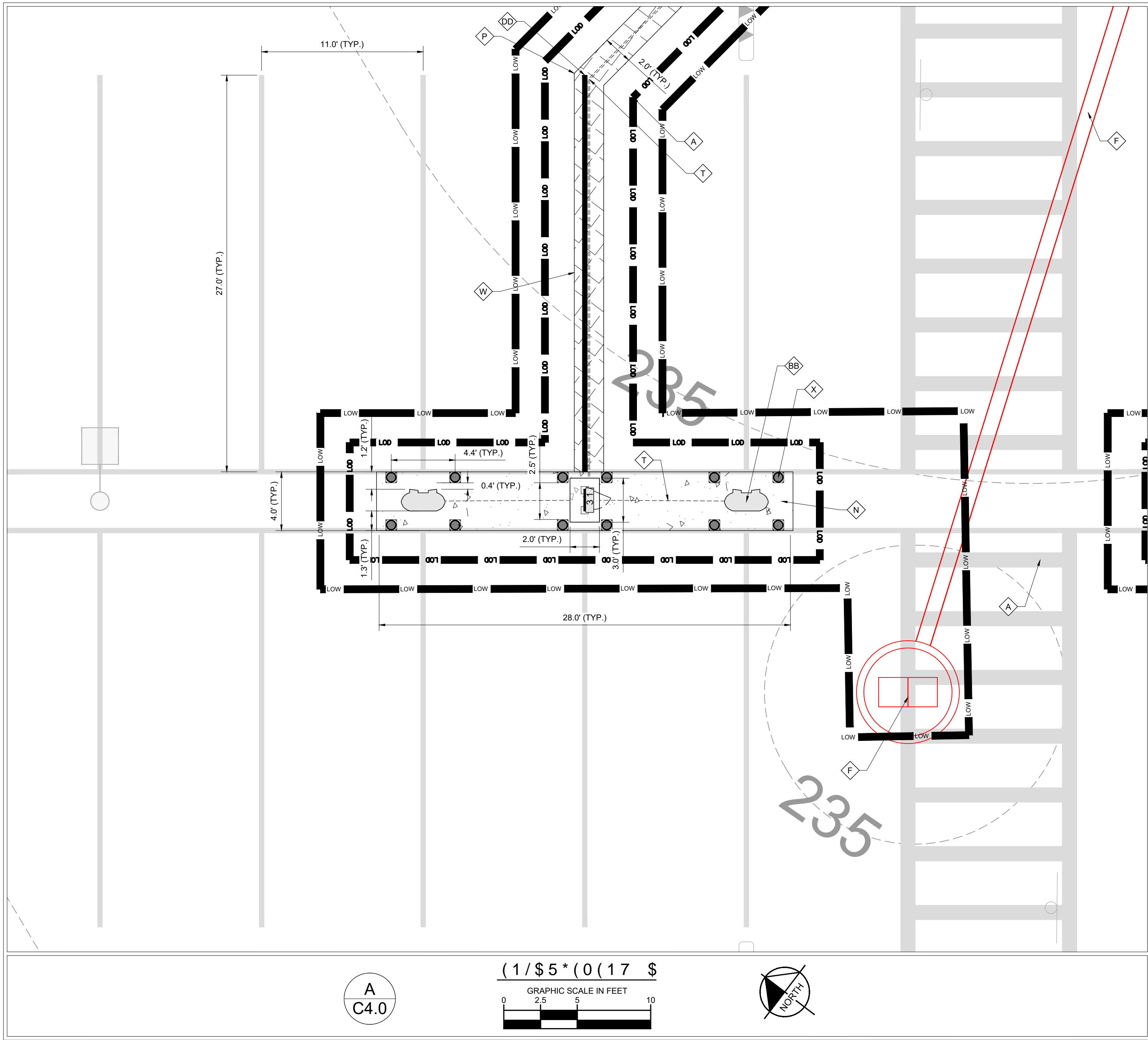
DATE: 12/20/2024

KIMLEY-HORN PROJECT NO. 115319667

CIVIL PLAN

SHEET NUMBER 31

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ITEM	DESCRIPTION
1.00	LIMITS OF DISTURBANCE = ±3,415 SF (±0.08 AC)
2.00	RELOCATED TREE
3.00	ENLARGEMENT
4.00	SHEET NUMBER
5.00	PARKING STRIPING (SEE PLANS FOR REVISED PARKING LAYOUT)
6.00	REGRADE & RESTORE CONCRETE CURBING
7.00	CONCRETE PAD / REGRADE & RESTORE CONCRETE PAVEMENT
8.00	REGRADE & RESTORE ASPHALT PAVEMENT
9.00	REGRADE AND RESTORE PERVIOUS / LANDSCAPE AREA
10.00	REGRADE & RESTORE PERVIOUS AREA - BUFFER DISTURBANCE
11.00	REGRADE & RESTORE PERVIOUS AREA - TREE CLEARING
12.00	REGRADE & RESTORE PERVIOUS AREA - BUFFER & TREE CLEARING

1.6785%\$1&(127(

FOR THE PURPOSE OF THIS PLAN, THE LIMITS OF WORK (LOW) REFER TO THE APPROXIMATE BOUNDARY WITHIN WHICH THE INSTALLATION OF THE EV INFRASTRUCTURE WILL OCCUR. THE LIMITS OF DISTURBANCE (LOD) IS THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, CLEARING, EXCAVATION, GRADING, AND RELATED ACTIVITIES SHALL OCCUR. THE LOW ENCOMPASSES THE LOD SHOWN ON THIS PLAN.

8216758&7,21127(6.

1. SEE PAVING AND ADDITIONAL CONSTRUCTION NOTES ON SHEET G1.0.
2. CONTRACTOR TO BORE AND/OR HAND-TRENCH CONDUIT AS REQUIRED PER NEC.
3. ALL EQUIPMENT SHALL BE INSTALLED PER CLIENT DESIGN STANDARDS.
4. CONTRACTOR TO RETURN ALL AREAS OF DISTURBANCE BACK TO EXISTING GRADE AND UP TO OR BETTER THAN EXISTING CONDITIONS.
5. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.

3\$9(0(170\$5,1*127(6.

1. CONTRACTOR SHALL TAKE FIELD MEASUREMENTS OR OTHERWISE ESTABLISH A SURVEY OF THE EXISTING STRIPING IN ALL WORK AREAS IN ORDER TO ESTABLISH ALL EXISTING PAVEMENT MARKINGS WITH FULL COORDINATION OF NEW MARKINGS PROPOSED ON THIS PLAN.
2. UNLESS OTHERWISE INDICATED ON THIS PLAN, THE CONTRACTOR SHALL ESTABLISH PAVEMENT MARKINGS FOR ALL FIRE LANES, DIRECTIONAL ARROWS, STOP BARS, CURBS, SIDEWALK, LIGHT POLE BASES, SIGN BASES AND PARKING STALLS TO MATCH THE EXISTING SITE WITHIN THE REPAIR LIMITS.
3. CONTRACTOR TO USE APPROPRIATE PAINT COLORS TO MATCH THE EXISTING FEATURES. ADA BARRIER FREE AREAS TO COMPLY WITH ALL LOCAL AND FEDERAL ADA STANDARDS. PAVEMENT MARKINGS SHALL BE A HIGH QUALITY PAINT RECOMMENDED BY THE PAINT MANUFACTURER. PAINT COLORS SHALL CLOSELY MATCH THE FEDERAL STANDARD 5995 COLOR NUMBER AS FOLLOWS: BLUE-COLOR 15180, WHITE-COLOR 37925 AND YELLOW-COLOR 33938.
4. IN AREAS NOT BEING RESURFACED BUT REQUIRING RESTRICTION, CONTRACTOR SHALL REMOVE EXISTING STRIPING BY EITHER SAND-BLASTING, WATER-BLASTING, OR BY ANOTHER APPROVED METHOD OF STRIPING REMOVAL WHERE THE STRIPING REMOVAL CHANGES THE SURFACE TEXTURE OF THE EXISTING ASPHALT, CONTRACTOR SHALL SEAL COAT THE AREA PRIOR TO RESTRICTION. CONTRACTOR TO SUBMIT STRIPING REMOVAL METHOD TO PROPERTY MANAGER AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

ID	DESCRIPTION
1.00	LIMITS OF DISTURBANCE = ±9,400 SF (±0.22 AC)
2.00	RELOCATED TREE
3.00	EXISTING UNDERGROUND ELECTRICAL LINE TO REMAIN AND BE PROTECTED (TYP.)
4.00	EXISTING SIGN POST TO REMAIN AND BE PROTECTED (TYP.)
5.00	EXISTING GUARDRAIL TO BE REPLACED AS NECESSARY (TYP.)
6.00	EXISTING STORMWATER INFRASTRUCTURE TO REMAIN AND BE PROTECTED (TYP.)
7.00	EXISTING WATER INFRASTRUCTURE TO REMAIN AND BE PROTECTED (TYP.)
8.00	EXISTING SSWR INFRASTRUCTURE TO REMAIN AND BE PROTECTED (TYP.)
9.00	ELECTRICAL CONDUIT BORE LINE (TYP.)
10.00	EXISTING LIGHT POLE TO REMAIN AND BE PROTECTED (TYP.)
11.00	EXISTING TREE TO REMAIN AND BE PROTECTED (TYP.)
12.00	EXISTING PARKING STALL(S) TO BE DEDICATED TO EV INFRASTRUCTURE
13.00	EXISTING L3 ELECTRIC VEHICLE CHARGING STATION TO REMAIN AND BE PROTECTED
14.00	CONCRETE EQUIPMENT PAD
15.00	REGRADE & RESTORE CONCRETE SIDEWALK (TYP.)
16.00	REGRADE & RESTORE ASPHALT PAVEMENT
17.00	REGRADE & RESTORE PERVIOUS AREA
18.00	RESTORE CURBING TO MATCH EXISTING CONDITIONS
19.00	TIE INTO EXISTING CURBING
20.00	UNDERGROUND POWER CONDUIT (TYP.)
21.00	CONDUIT TO BE ROUTED AROUND EXISTING TREE
22.00	CONDUIT TO BE ROUTED AROUND EXISTING LIGHT POLE
23.00	POWER CONDUIT TRENCH (TYP.)
24.00	POST-INSTALLED BOLLARD (TYP.)
25.00	EMBEDDED BOLLARD (TYP.)
26.00	PAD-MOUNTED SINGLE L2 EVCS
27.00	PAD-MOUNTED DUAL L2 EVCS (TYP.)
28.00	PAD-MOUNTED DUAL L3 DC FAST CHARGER (TYP.)
29.00	UNDERGROUND UTILITY CROSSING. (MAINTAIN 12" MINIMUM SEPARATION)
30.00	PARKING STRIPING TO BE CONSTRUCTED PER THE LATEST AMAZON STANDARDS
31.00	3X3 BORE PIT
32.00	EXISTING STORM INFILTRATION SYSTEM INSPECTION PORT TO REMAIN & BE PROTECTED

5(6285&(\$5(\$%8))(5'1,6785%\$1&.

DISTURBANCE TO BVW: 0 SF (NO DISTURBANCE TO BVW)

DISTURBANCE WITHIN 50FT BVW BUFFER: 495 SF

DISTURBANCE WITHIN 100FT BVW BUFFER: 3445 SF

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TREE CLEARING WITHIN 50FT BVW BUFFER: 0 SF

TREE CLEARING WITHIN 100FT BVW BUFFER: 2372 SF

TOTAL TREE CLEARING: 2372 SF

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TOTAL EXISTING VAN STALLS	450 STALLS
TOTAL PROPOSED VAN STALLS	445 STALLS
CHANGE	1 VAN STALL(S) TO BE DEDICATED TO EV INFRASTRUCTURE

REVISIONS	DATE	BY
OVERALL TREE PLANTING PLAN	10/22/2024	FM
CLIENT DIRECTED CHANGES	10/11/2024	JG
CLIENT DIRECTED CHANGES	12/20/2024	KN
1		
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6		
7		
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12		
DESIGNED BY:	LYC	
DRAWN BY:	JWG	
CHECKED BY:	AA	
DATE:	12/20/2024	
KIMLEY-HORN PROJECT NO. 115319967		

CIVIL PLAN - ENLARGEMENTS

SHEET NUMBER &

Kimley»Horn

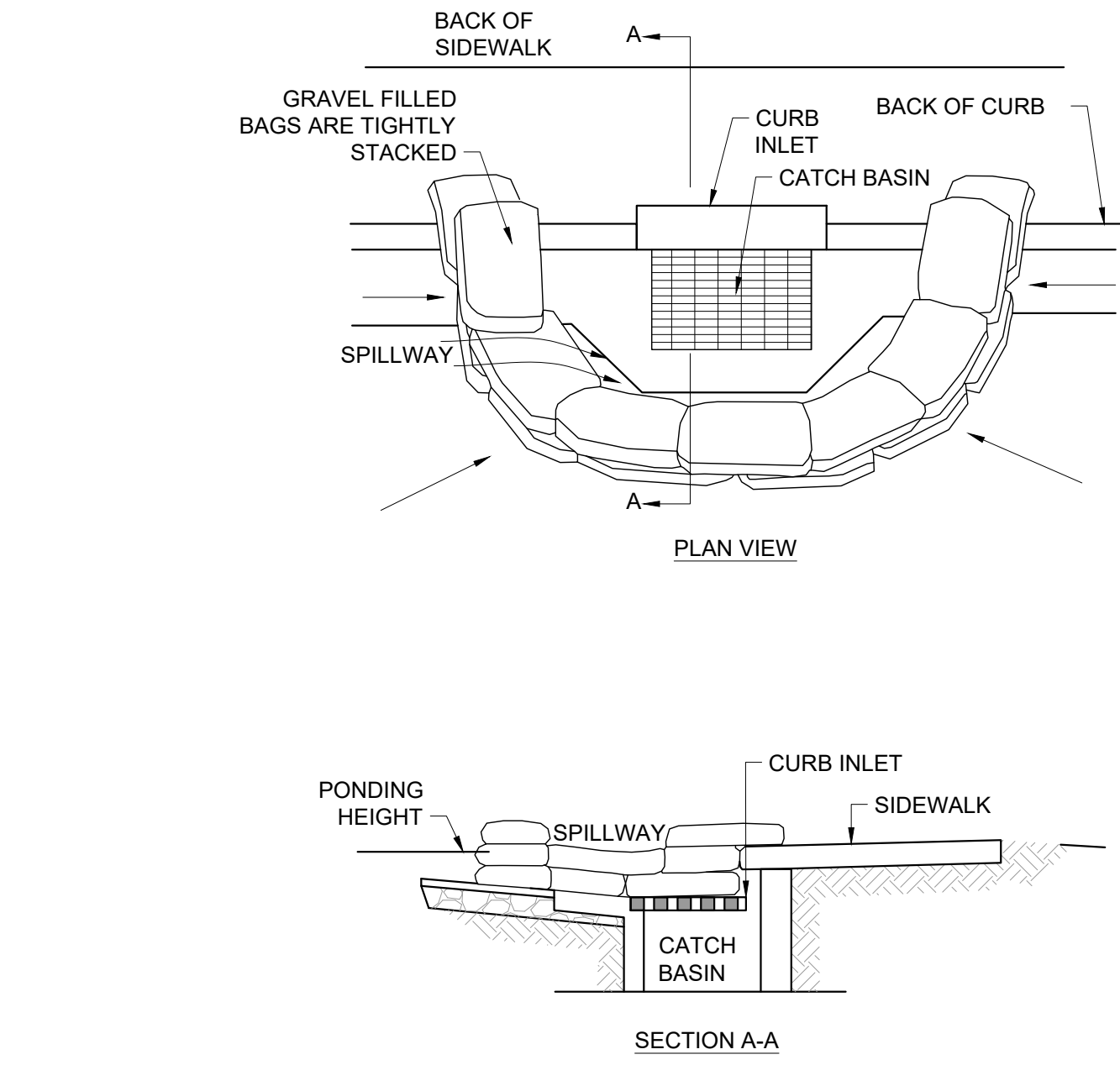
DKO1_EV
EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460

RYAN GRAM
CIVIL
No. 55741
12/20/2024

12/20/2024

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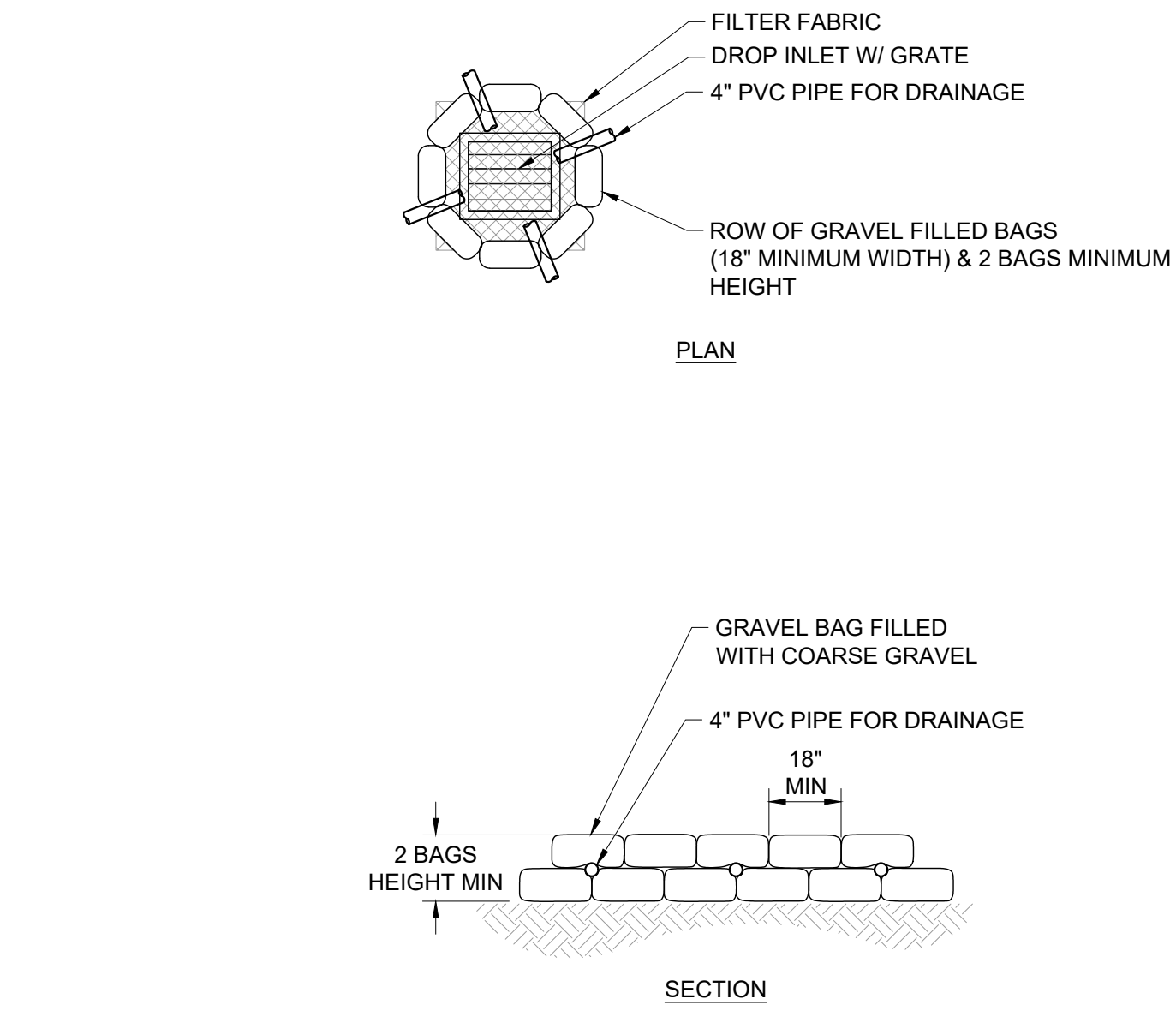


- NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 2. GRAVEL BAG MATERIAL: POLYPROPYLENE, POLYETHYLENE OR POLYIMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.
 3. GRAVEL BAG SHALL BE FILLED WITH 3/4" ROCK OR 1/4" PEA GRAVEL.
 4. PLACE SEVERAL LAYERS OF SAND BAGS (12" MINIMUM HIGH) OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
 5. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY.
 6. PLACE FILTER FABRIC OVER WIRE MESH. FILTER FABRIC SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH AN EQUIVALENT OPENING SIZE NOT GREATER THAN 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/MINUTE/SQ. FT.
 7. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET SEDIMENT BARRIER

SCALE
N.T.S.

1

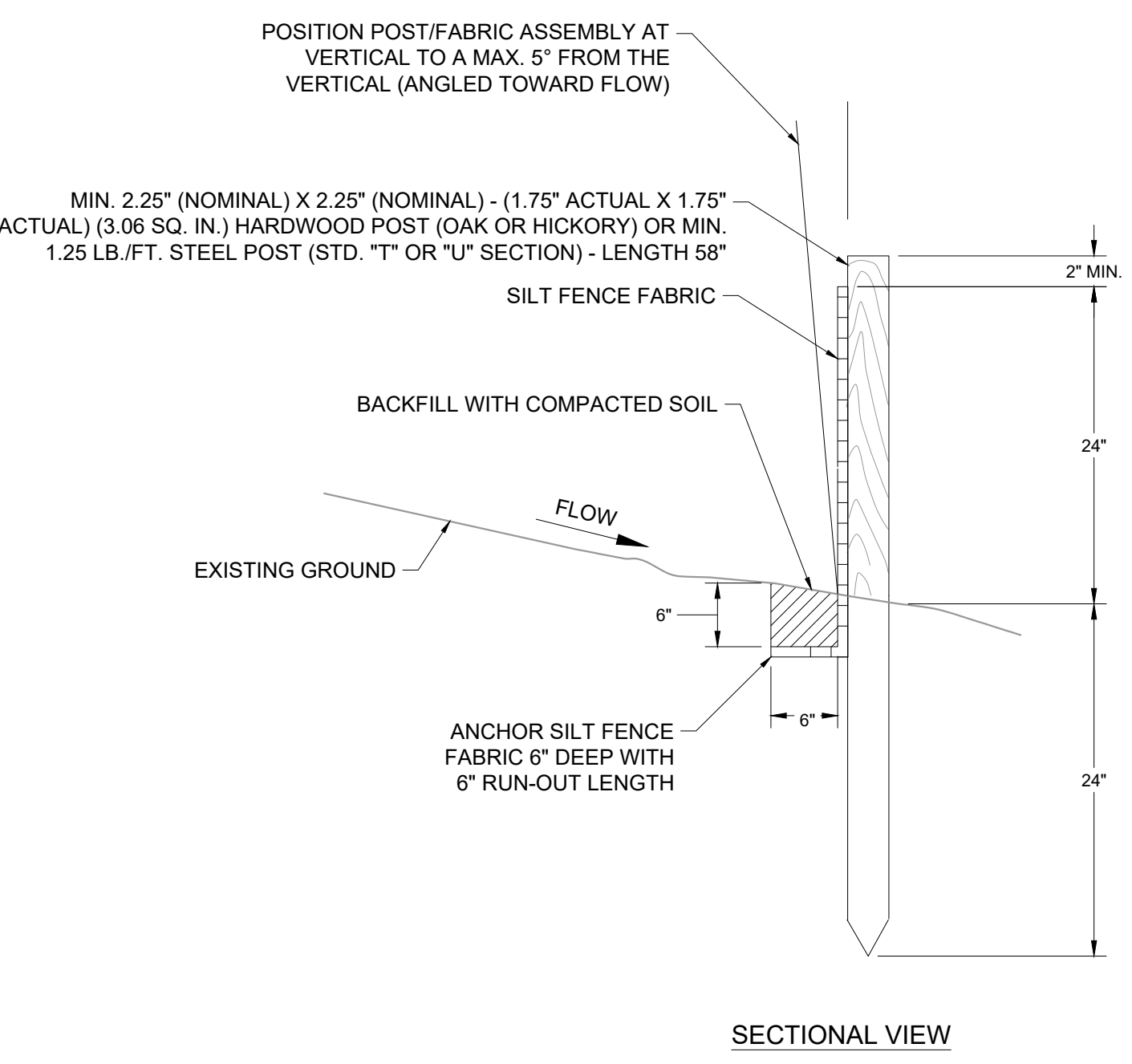


- NOTES:
1. GRAVEL BAG MATERIAL: POLYPROPYLENE, POLYETHYLENE OR POLYIMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.
 2. GRAVEL BAG SHALL BE FILLED WITH 3/4" ROCK OR 1/4" PEA GRAVEL.
 3. PLACE SEVERAL LAYERS OF SAND BAGS (12" MINIMUM HIGH) OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
 4. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY.
 5. PLACE WIRE MESH OVER AND 1" (MINIMUM) BEYOND THE INLET STRUCTURE.
 6. PLACE FILTER FABRIC OVER WIRE MESH. FILTER FABRIC SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH AN EQUIVALENT OPENING SIZE NOT GREATER THAN 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/MINUTE/SQ. FT.
 7. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT.

DROP INLET SEDIMENT BARRIER

SCALE
N.T.S.

2

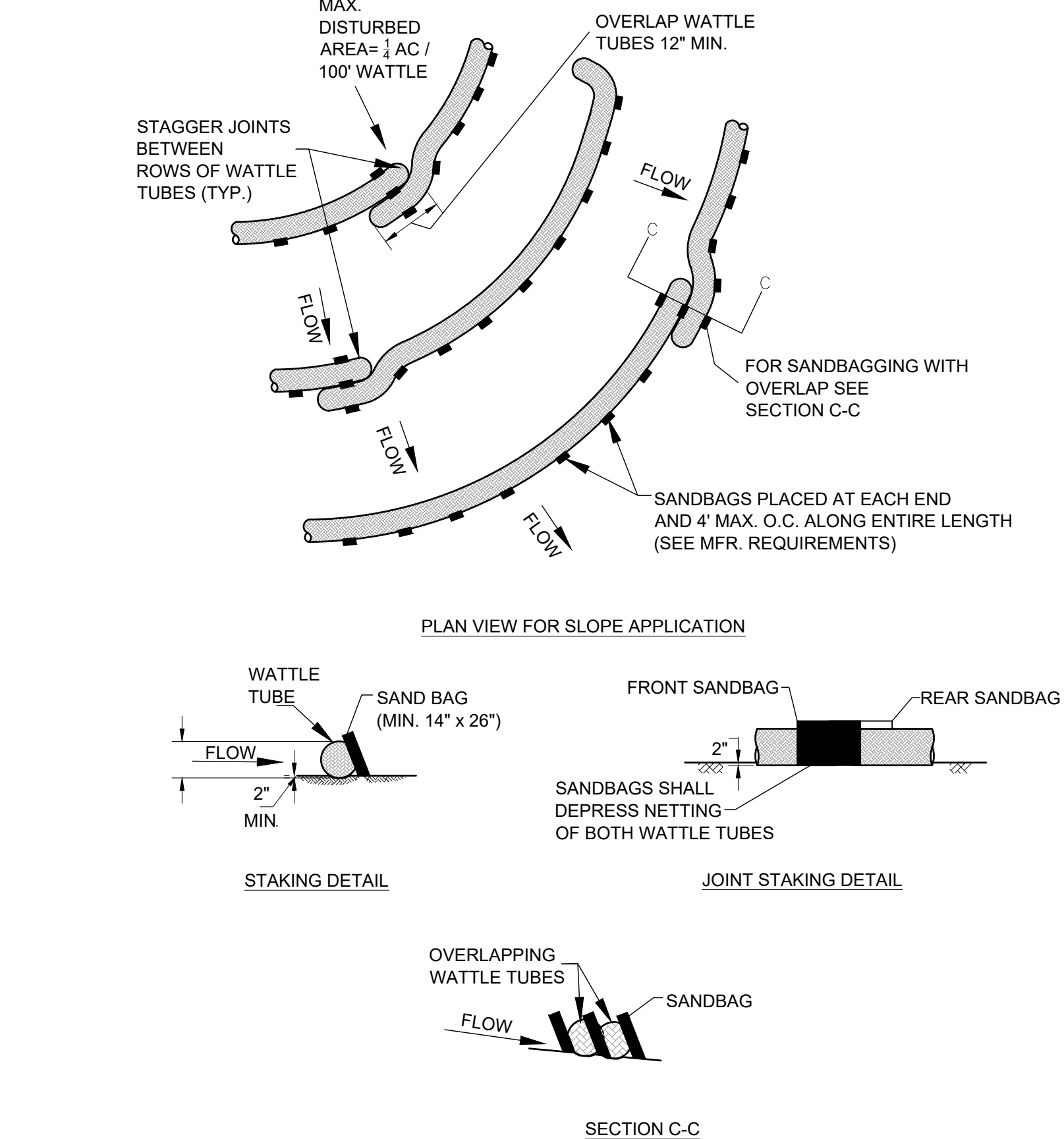


- NOTES:
1. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 2. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE OR WHEN CAPACITY NEARS 50%.

SILT FENCE INSTALLMENT

SCALE
N.T.S.

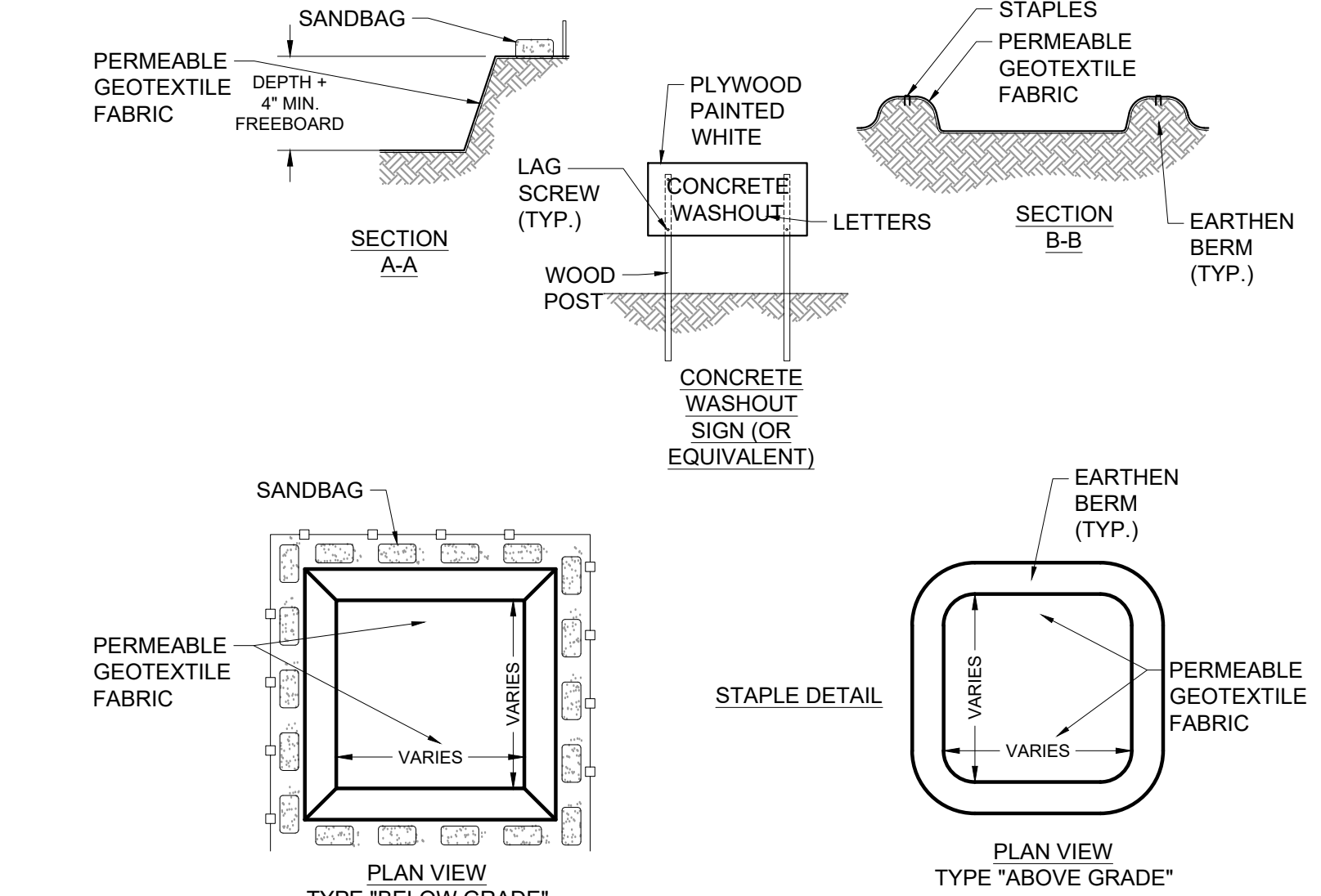
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EROSION EELS

SCALE
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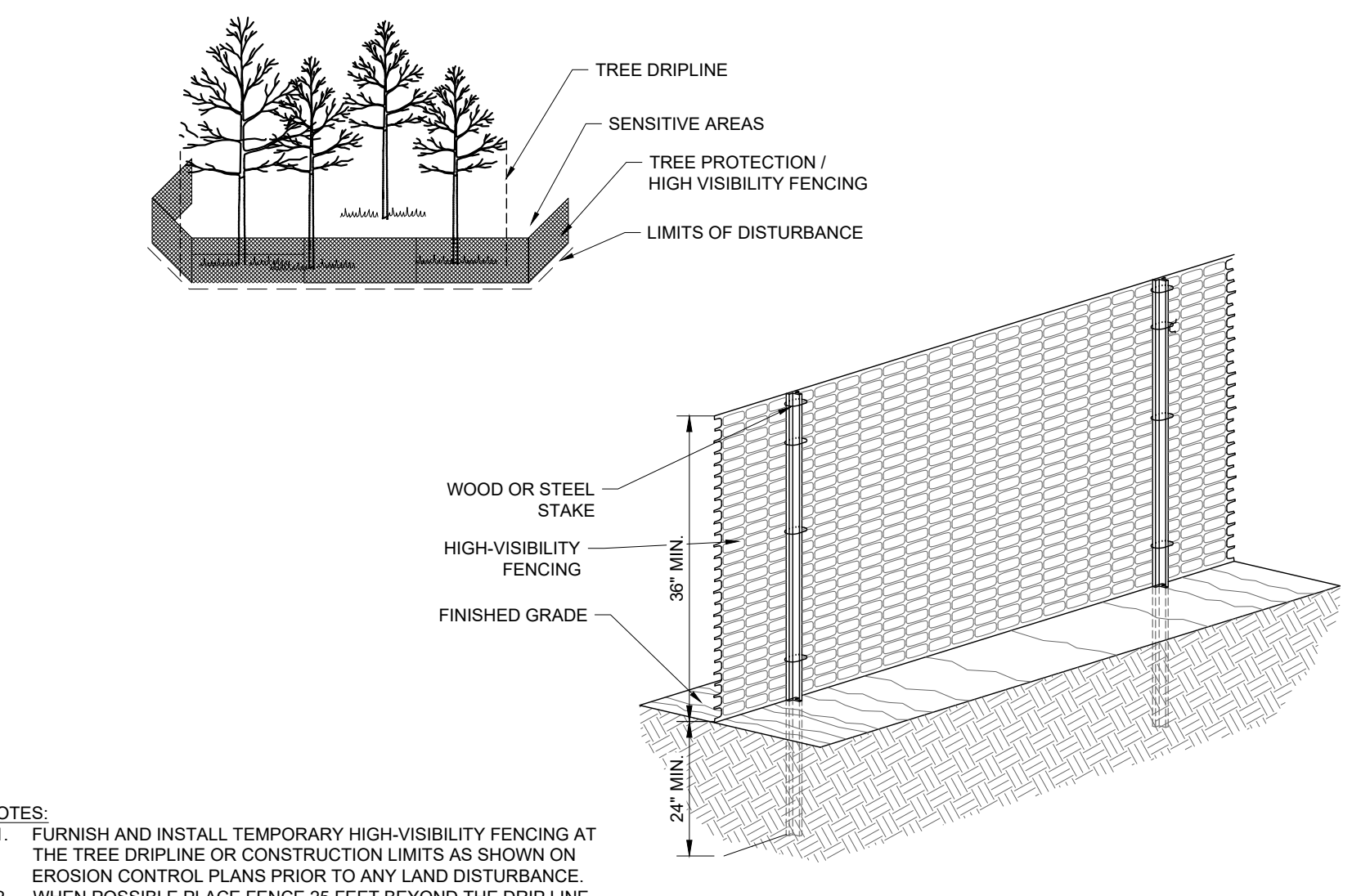
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CONCRETE WASHOUT

SCALE
N.T.S.

5



- NOTES:
1. FURNISH AND INSTALL TEMPORARY HIGH-VISIBILITY FENCING AT THE TREE DRIP LINE OR CONSTRUCTION LIMITS AS SHOWN ON EROSION CONTROL PLANS PRIOR TO ANY LAND DISTURBANCE.
 2. WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE.

TREE PROTECTION

SCALE
N.T.S.

6

PERMANENT STABILIZATION MEASURES SHALL BE DONE IN ACCORDANCE WITH LOCAL EROSION AND SEDIMENT CONTROL REQUIREMENTS

PERMANENT STABILIZATION

SCALE
N.T.S.

8

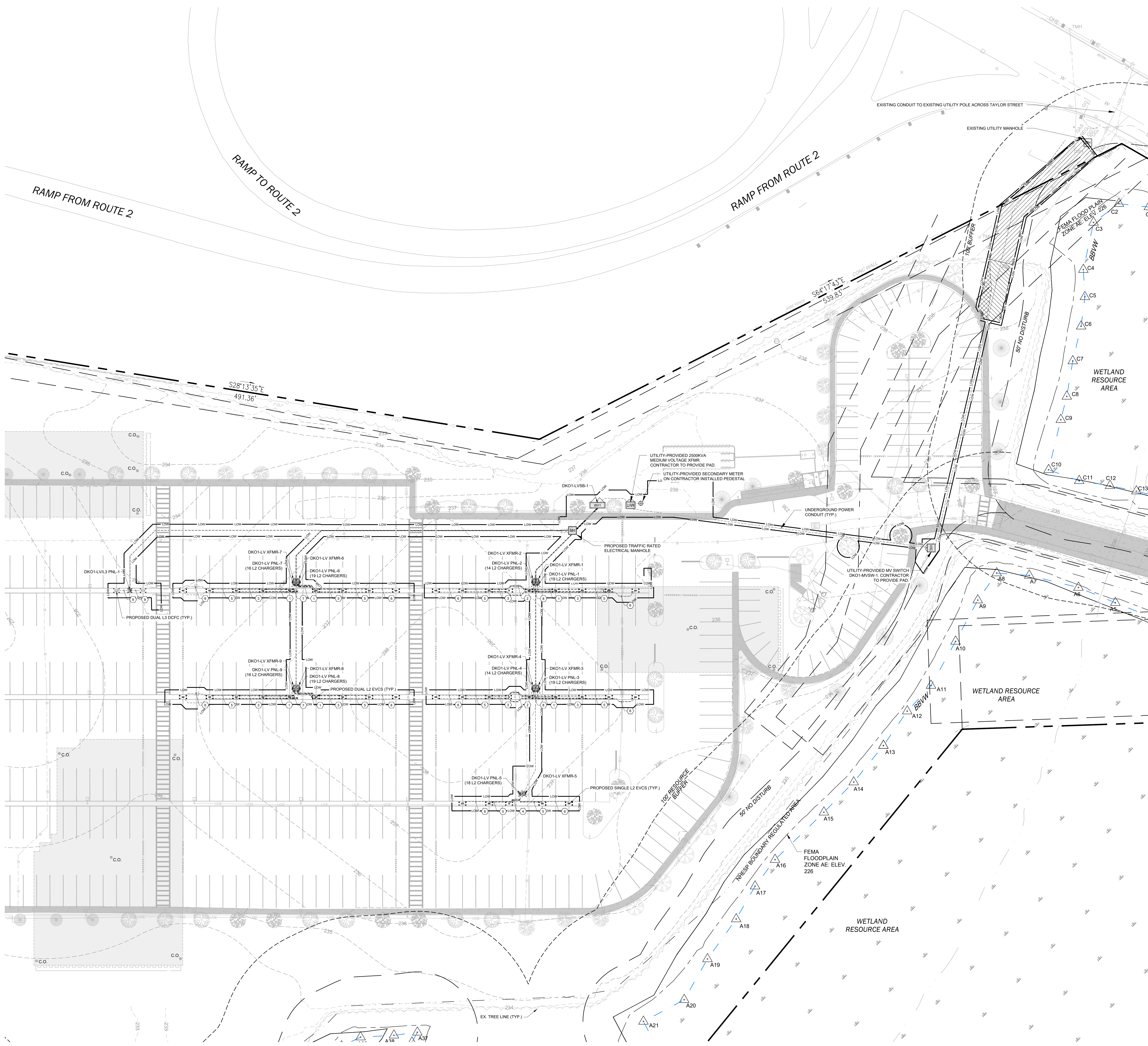
NOT USED

SCALE
N.T.S.

9

NOT USED	SCALE	8
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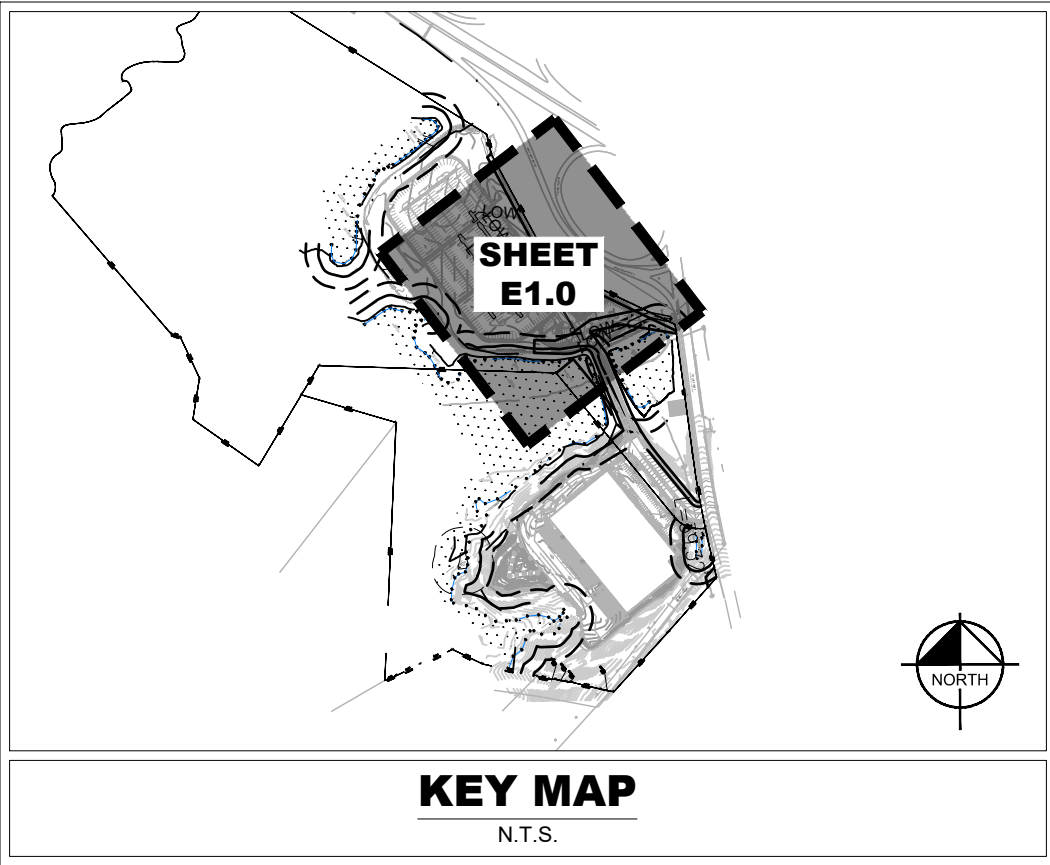


LEGEND	
ITEM	DESCRIPTION
	CONDUIT AND CONDUCTOR FEEDER CALLOUT
	EV VAN STALL PARKING COUNT
	POWER CONDUIT - UNDERGROUND
	EXISTING UTILITY MANHOLE
	UTILITY SWITCHING CABINET - PAD MOUNTED
	UTILITY METER
	UTILITY TRANSFORMER - PAD MOUNTED
	ELECTRICAL MANHOLE
	480V LV SWITCHBOARD - PAD MOUNTED
	LV TRANSFORMER - PAD MOUNTED
	LV PANEL - UNISTRUT MOUNTED (U.O.N.)
	NEMA 3R JUNCTION BOX
	L3 DC FAST CHARGING STATION (DCFC)
	L2 EVCS - POST-MOUNTING STATION (DCFC)
	EMBEDDED BOLLARD
	POST INSTALLED BOLLARD

SETBACK NOTE:
CONTRACTOR TO VERIFY THAT LOCATIONS OF ALL PROPOSED EV ELECTRICAL EQUIPMENT ARE IN COMPLIANCE WITH ALL LOCAL CODES, SETBACKS, AND BUFFERS.

- CONSTRUCTION NOTES:**
- SEE ADDITIONAL ELECTRICAL NOTES AND SPECIFICATIONS ON SHEET G1.0.
 - CONTRACTOR TO BORE OR HAND TRENCH CONDUIT AS REQUIRED PER NEC.
 - ALL EQUIPMENT SHALL BE INSTALLED PER CLIENT DESIGN STANDARDS.
 - LOW VOLTAGE SWITCHBOARD (277/480V-3PH), CONDUITS STUBBED TO THIS LOCATION SHALL BE GROUPED TOGETHER TO SUPPORT SWITCHBOARD CONFIGURATION (SECONDARY ENTRANCE WINDOW AND DISTRIBUTION WINDOWS). REFER TO ELECTRICAL SHEETS FOR PROPOSED AMPACITY RATINGS OF SWITCHBOARD EQUIPMENT.
 - PAD MOUNTED TRANSFORMER (277/480V-3PH SECONDARY), CONDUITS STUBBED TO THIS LOCATION SHALL BE GROUPED TOGETHER TO SUPPORT TRANSFORMER CONFIGURATION (SECONDARY ENTRANCE WINDOW AND PRIMARY WINDOW). REFER TO ELECTRICAL SHEETS FOR PROPOSED RATINGS OF TRANSFORMER EQUIPMENT.

- EV GENERAL NOTES:**
- CONTRACTOR SHALL ROUTE A MAXIMUM OF 4 CIRCUITS IN A CONDUIT FROM LV PANELBOARD TO CHARGING STATION LOCATIONS.



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Main: 781-322-0676 | www.kimley-horn.com
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DKO1_EV
EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460

12/10/2024

REVISIONS	DATE	BY
OVERALL TREE PLANTING PLAN	10/02/2024	FM
CLIENT DIRECTED CHANGES	10/17/2024	JG
CLIENT DIRECTED CHANGES	12/20/2024	KN

No.

1

2

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12

DESIGNED BY: LKC

DRAWN BY: JWG

CHECKED BY: AA

DATE: 12/20/2024

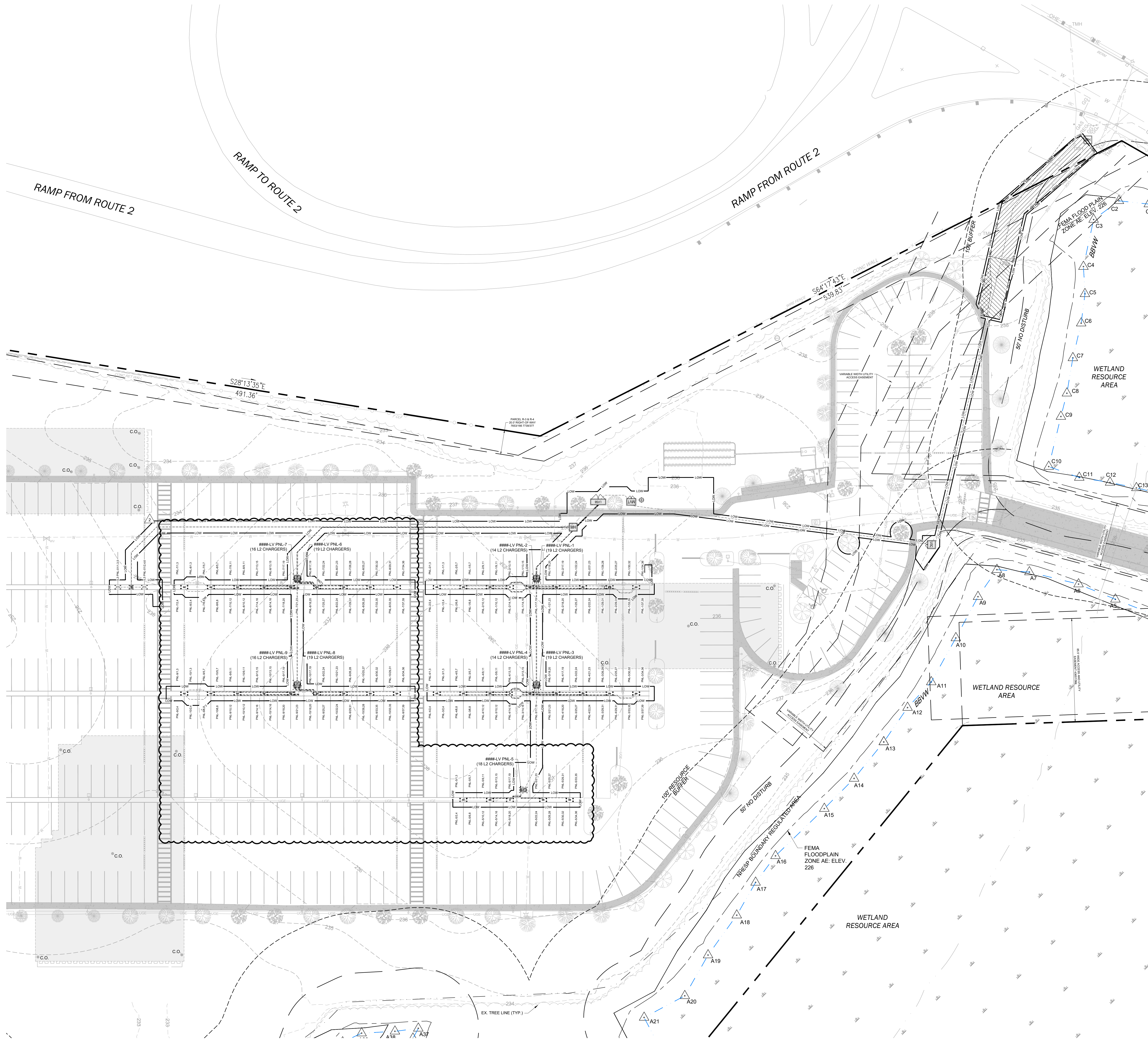
KIMLEY-HORN PROJECT NO. 115319967

ELECTRICAL SITE PLAN

SHEET NUMBER

E1.0

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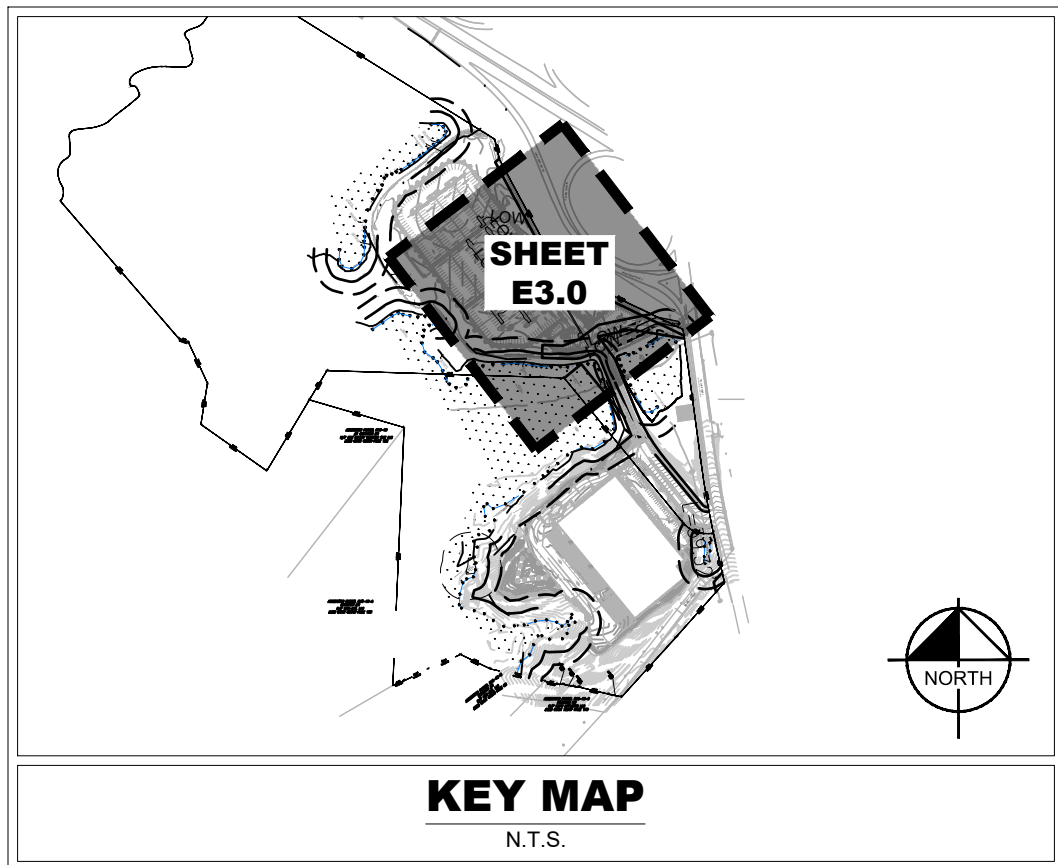


LEGEND	
ITEM	DESCRIPTION
Ⓢ	CONDUIT AND CONDUCTOR FEEDER CALLOUT
Ⓢ	EV VAN STALL PARKING COUNT
---	POWER CONDUIT - UNDERGROUND
Ⓢ	EXISTING UTILITY MANHOLE
Ⓢ	UTILITY SWITCHING CABINET - PAD MOUNTED
Ⓢ	UTILITY METER
Ⓢ	UTILITY TRANSFORMER - PAD MOUNTED
Ⓢ	ELECTRICAL MANHOLE
Ⓢ	480V LV SWITCHBOARD - PAD MOUNTED
Ⓢ	LV TRANSFORMER - PAD MOUNTED
Ⓢ	LV PANEL - UNISTRUT MOUNTED (U.O.N.)
Ⓢ	NEMA 3R JUNCTION BOX
Ⓢ	L3 DC FAST CHARGING STATION (DCFC)
Ⓢ	L2 EVCS - POST-MOUNTING STATION (DCFC)
Ⓢ	EMBEDDED BOLLARD
Ⓢ	POST INSTALLED BOLLARD

SETBACK NOTE:
CONTRACTOR TO VERIFY THAT LOCATIONS OF ALL PROPOSED EV ELECTRICAL EQUIPMENT ARE IN COMPLIANCE WITH ALL LOCAL CODES, SETBACKS, AND BUFFERS.

CONSTRUCTION NOTES:
1. SEE ADDITIONAL ELECTRICAL NOTES AND SPECIFICATIONS ON SHEET G1.0.
2. CONTRACTOR TO BORE OR HAND TRENCH CONDUIT AS REQUIRED PER NEC.
3. ALL EQUIPMENT SHALL BE INSTALLED PER CLIENT DESIGN STANDARDS.
4. LOW VOLTAGE SWITCHBOARD (277/480V-3PH), CONDUITS STUBBED TO THIS LOCATION SHALL BE GROUPED TOGETHER TO SUPPORT SWITCHBOARD CONFIGURATION (SECONDARY ENTRANCE WINDOW AND DISTRIBUTION WINDOWS). REFER TO ELECTRICAL SHEETS FOR PROPOSED AMPACITY RATINGS OF SWITCHBOARD EQUIPMENT.
5. PAD MOUNTED TRANSFORMER (277/480V-3PH SECONDARY), CONDUITS STUBBED TO THIS LOCATION SHALL BE GROUPED TOGETHER TO SUPPORT TRANSFORMER CONFIGURATION (SECONDARY ENTRANCE WINDOW AND PRIMARY WINDOW). REFER TO ELECTRICAL SHEETS FOR PROPOSED RATINGS OF TRANSFORMER EQUIPMENT.

EV GENERAL NOTES:
1. CONTRACTOR SHALL ROUTE A MAXIMUM OF 4 CIRCUITS IN A CONDUIT FROM LV PANELBOARD TO CHARGING STATION LOCATIONS.



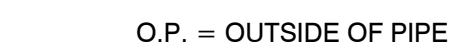
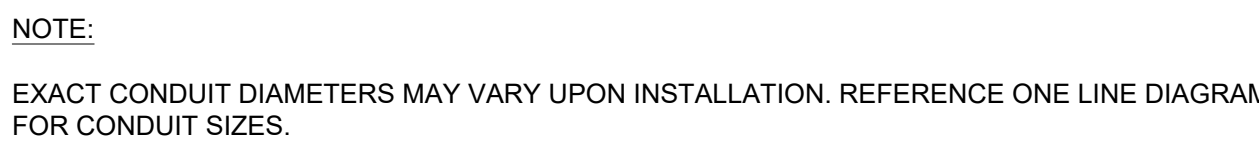
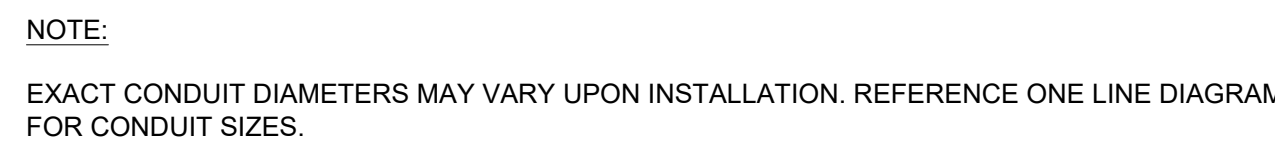
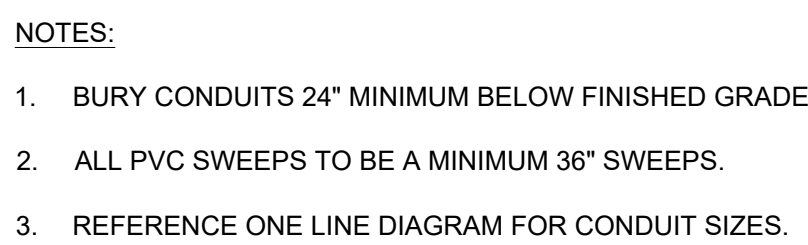
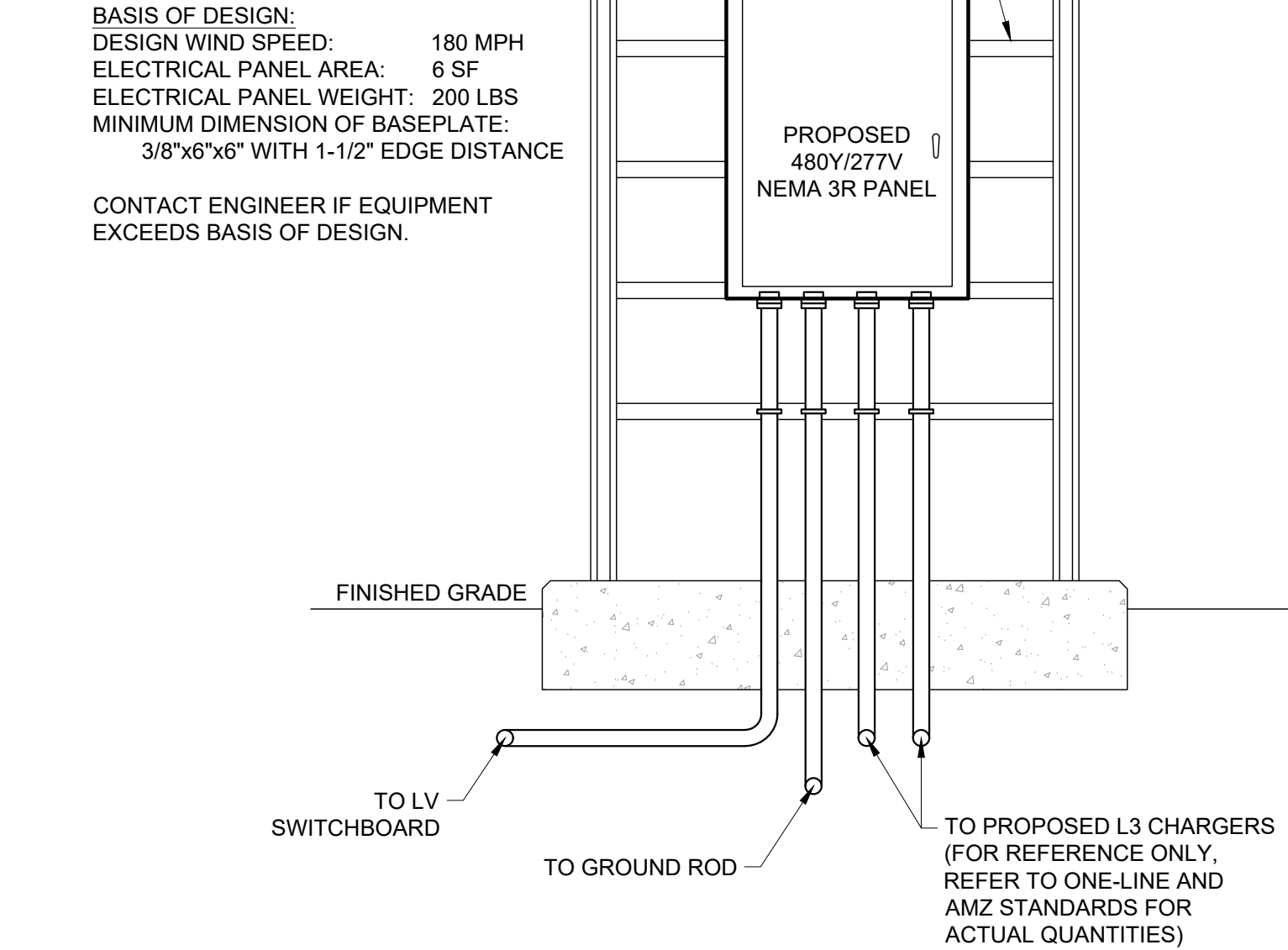
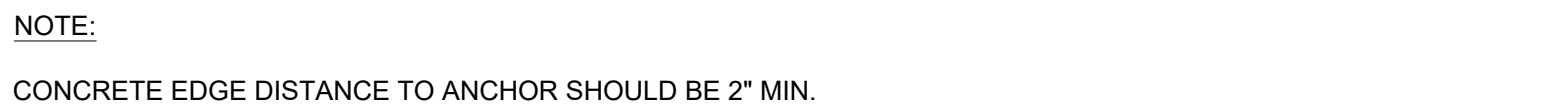
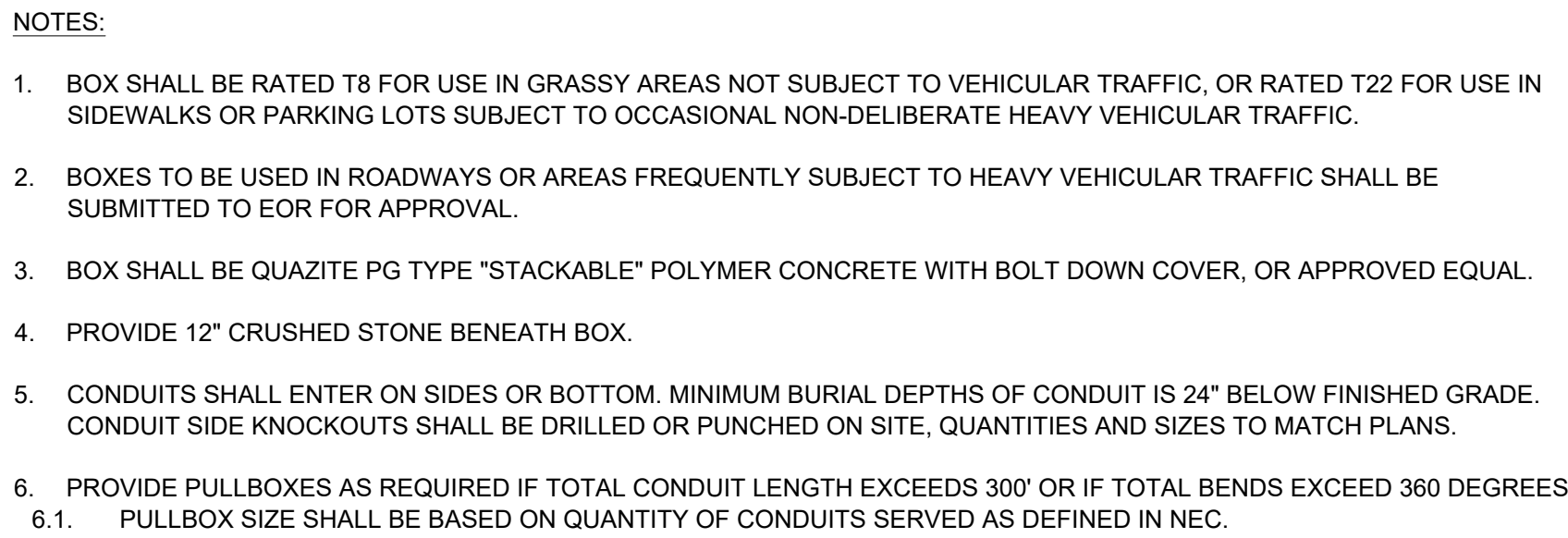
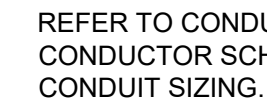
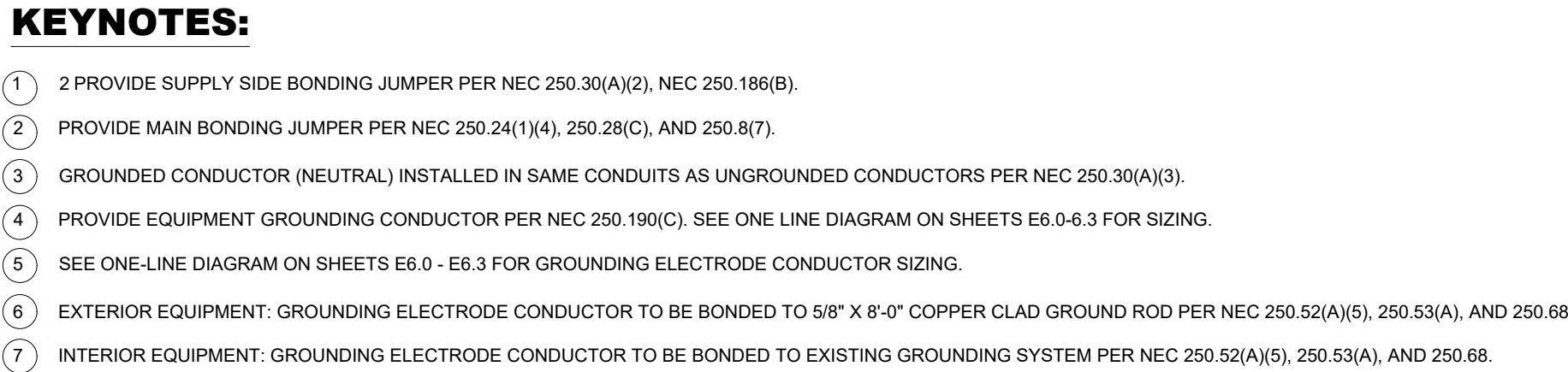
DKO1_EV EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460

REVISIONS		DATE	BY
No.	DATE	BY	
1	10/02/2024	FM	
2	10/17/2024	JG	
3	12/20/2024	KN	
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DESIGNED BY:		LKC	
DRAWN BY:		JWG	
CHECKED BY:		AA	
DATE:		12/20/2024	
KIMLEY-HORN PROJECT NO. 115319967			

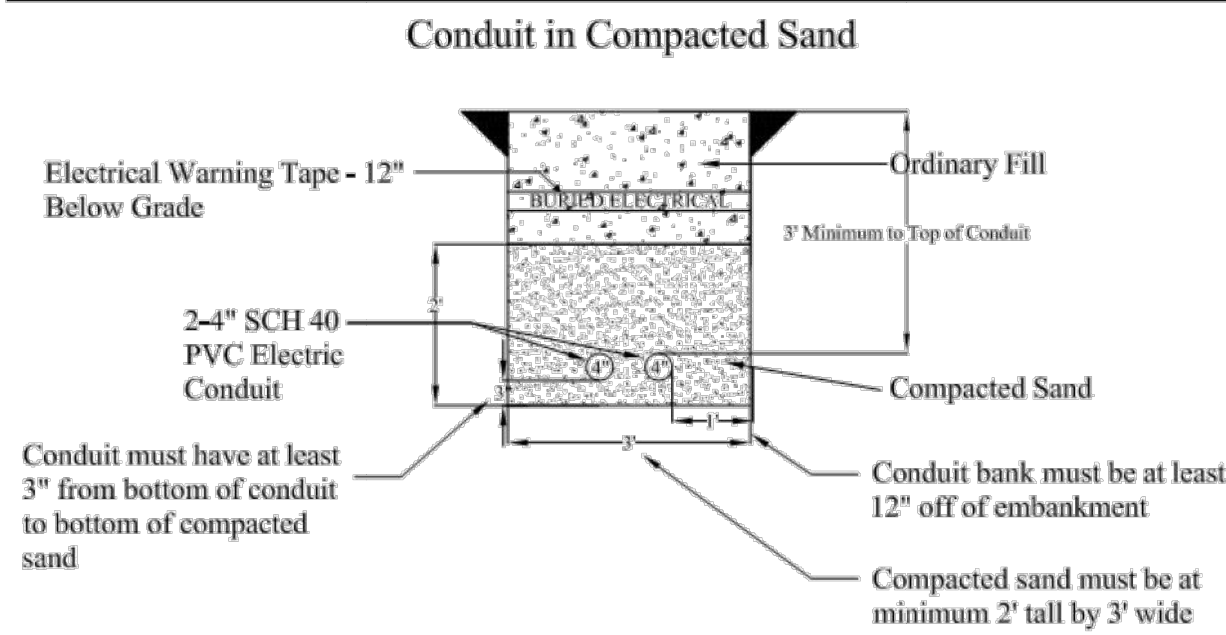
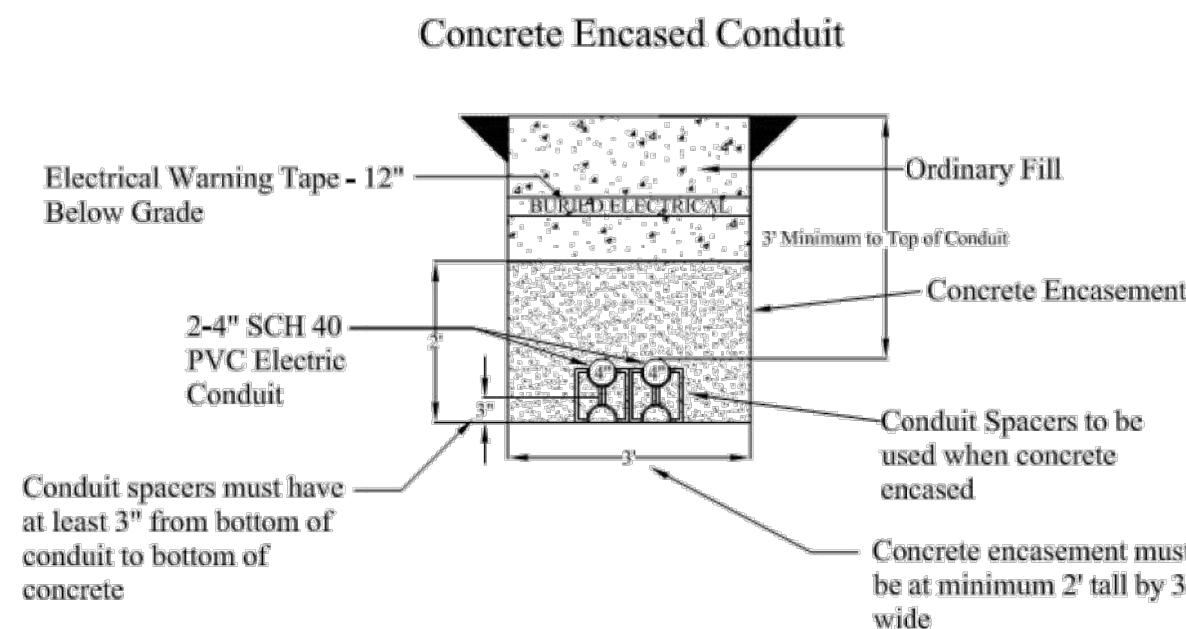
ELECTRICAL CIRCUITING
PLAN

SHEET NUMBER
E3.0

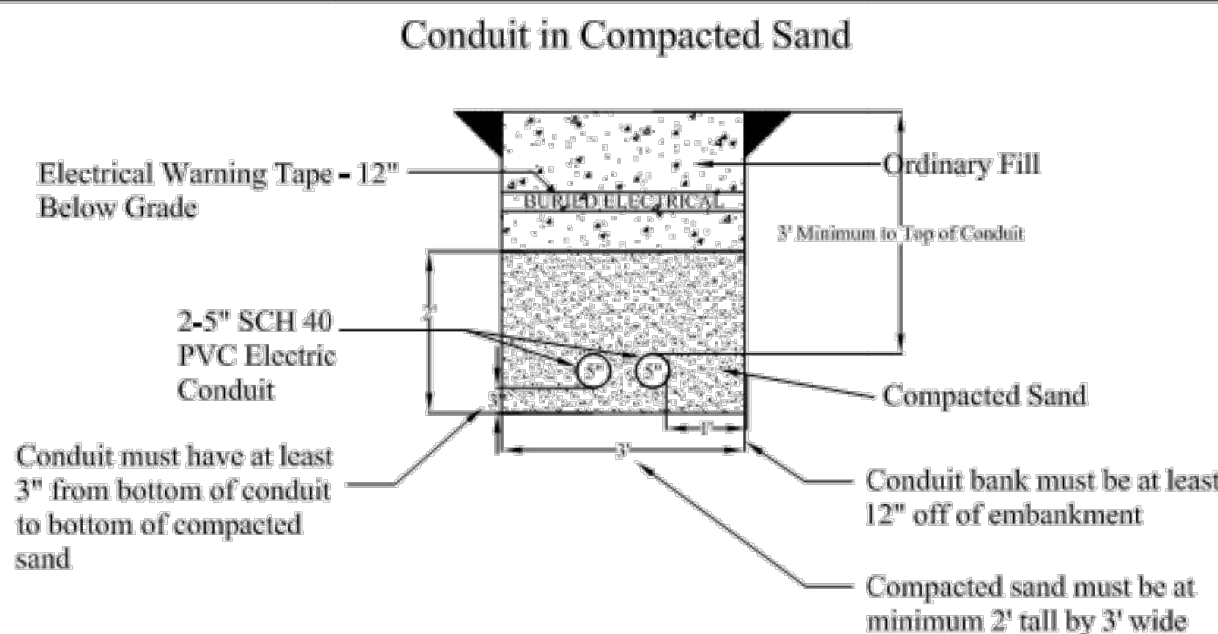
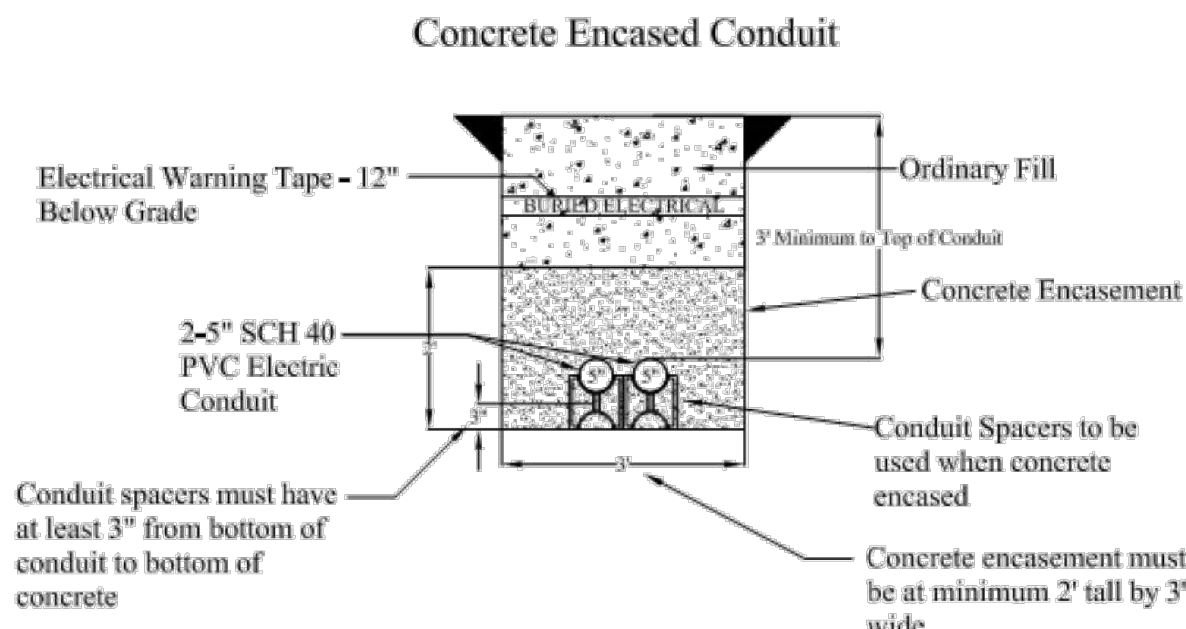


ELECTRICAL DETAILS

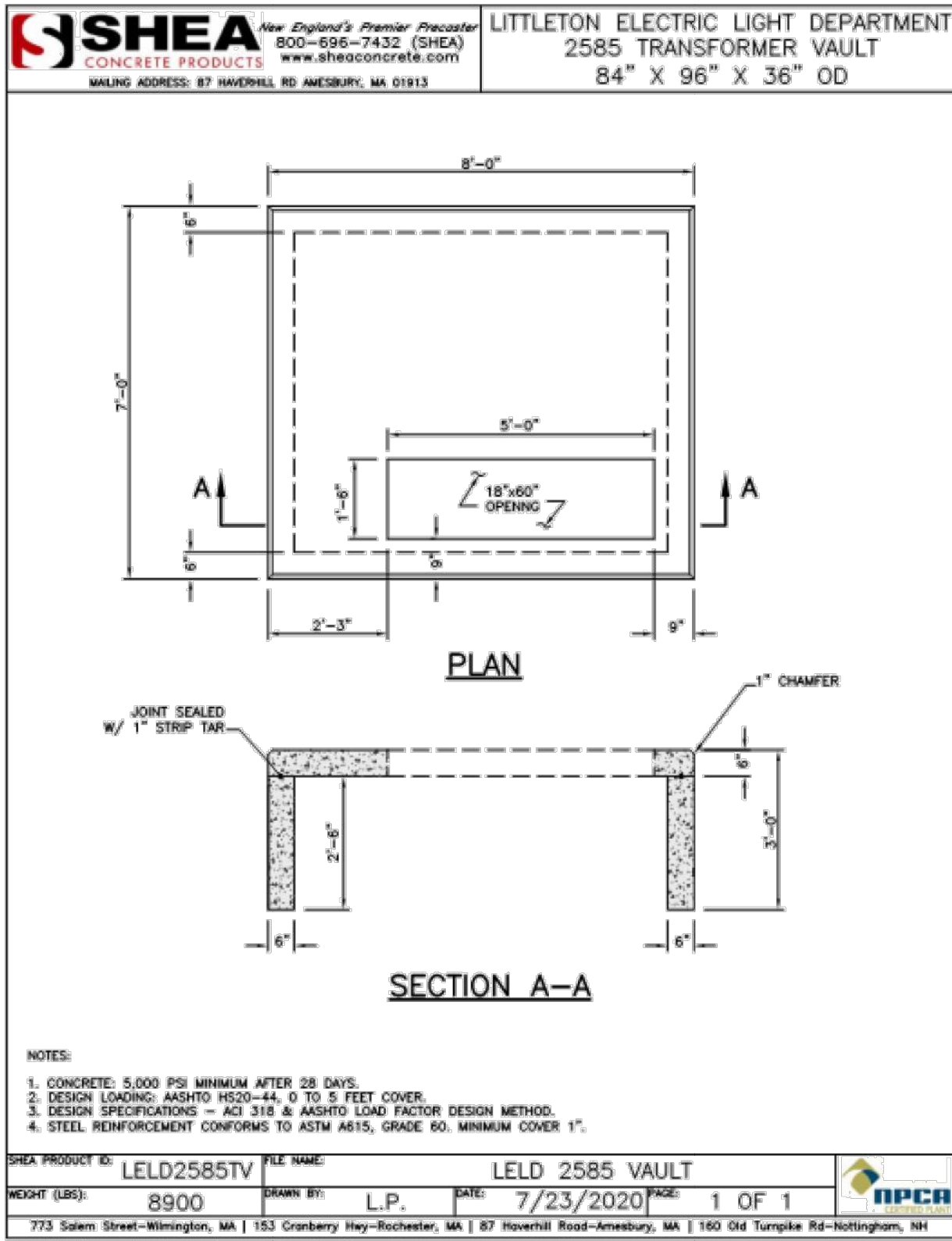
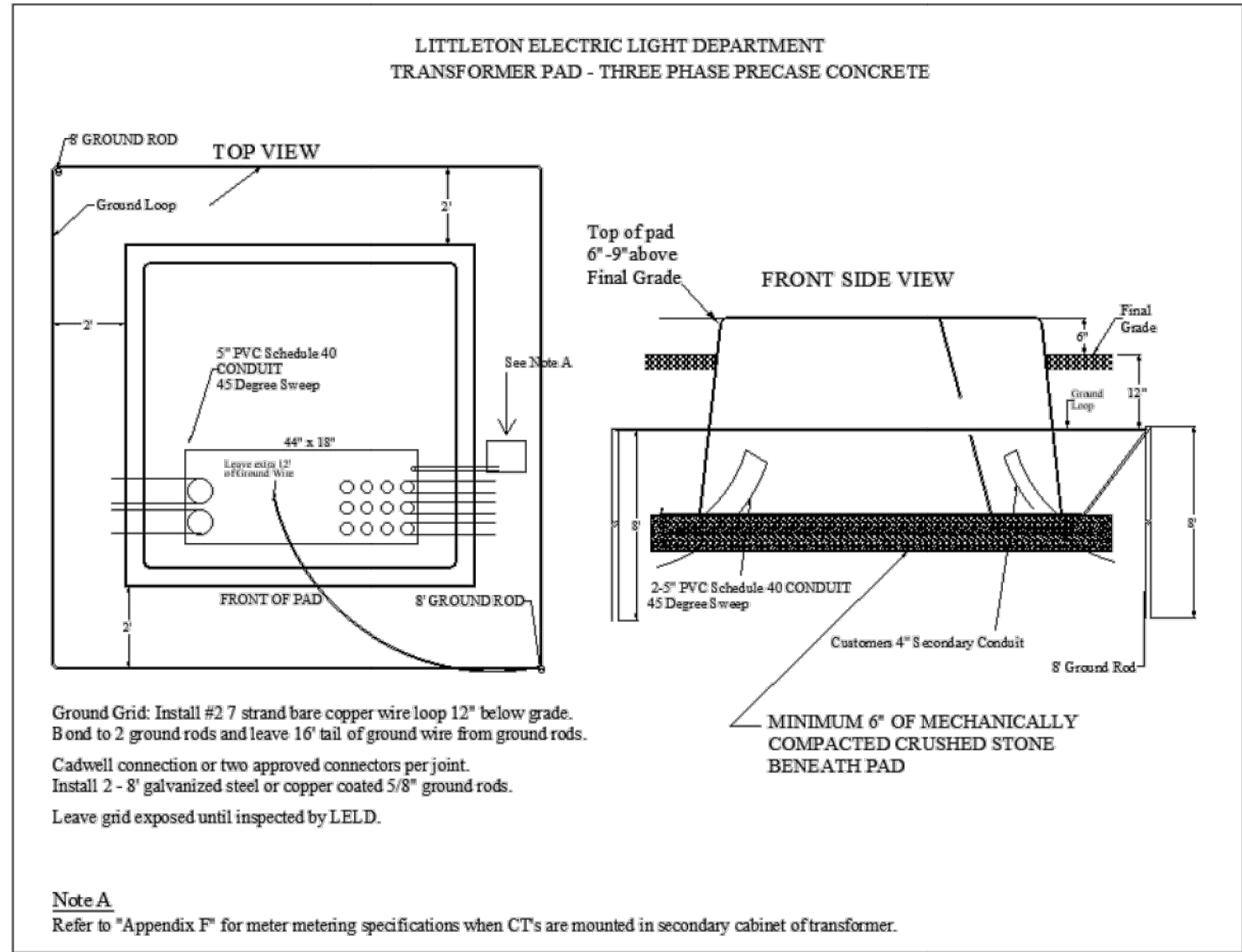
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Note: Under a traveled way, conduit bank to be concrete encased using 2500 PSI mix with a minimum cover of 6", galvanized rigid steel, or SCH 80 PVC conduit



Note: Under a traveled way, conduit bank to be concrete encased using 2500 PSI mix with a minimum cover of 6", galvanized rigid steel, or SCH 80 PVC conduit



75(1&+ '(7\$,/ % < 27+(56

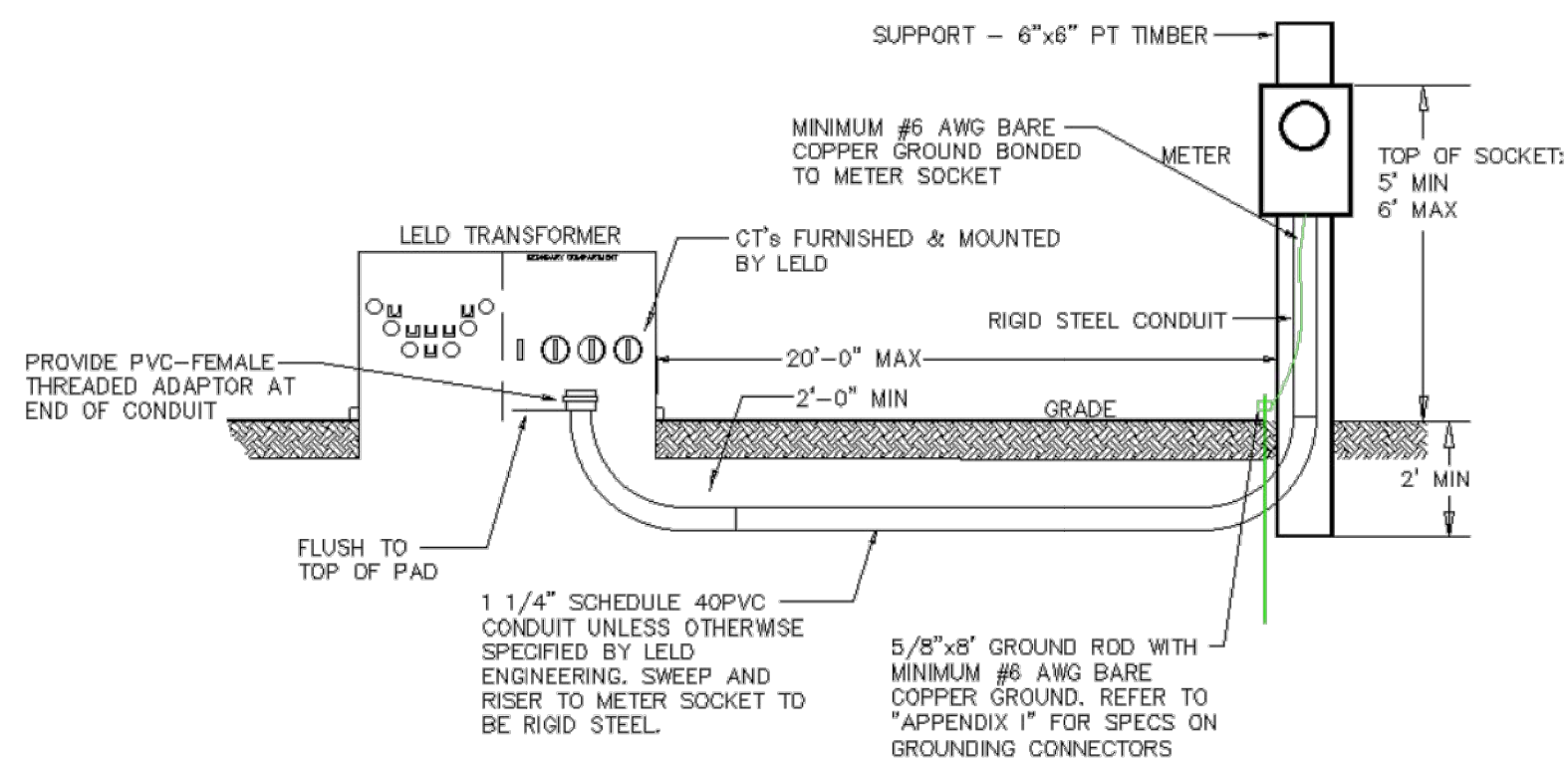
SCALE
N.T.S.

75(1&+ '(7\$,/ % < 27+(56

SCALE
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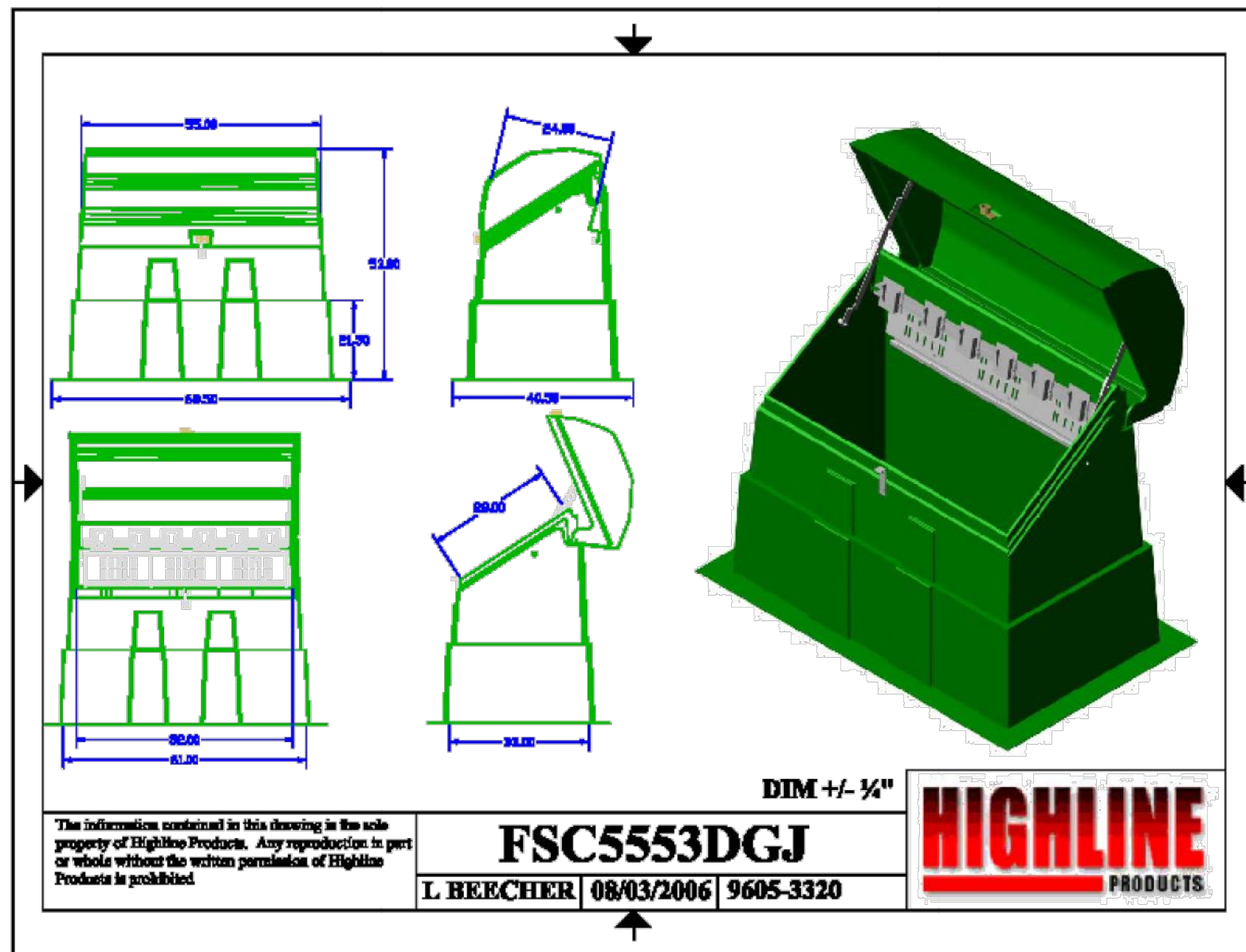
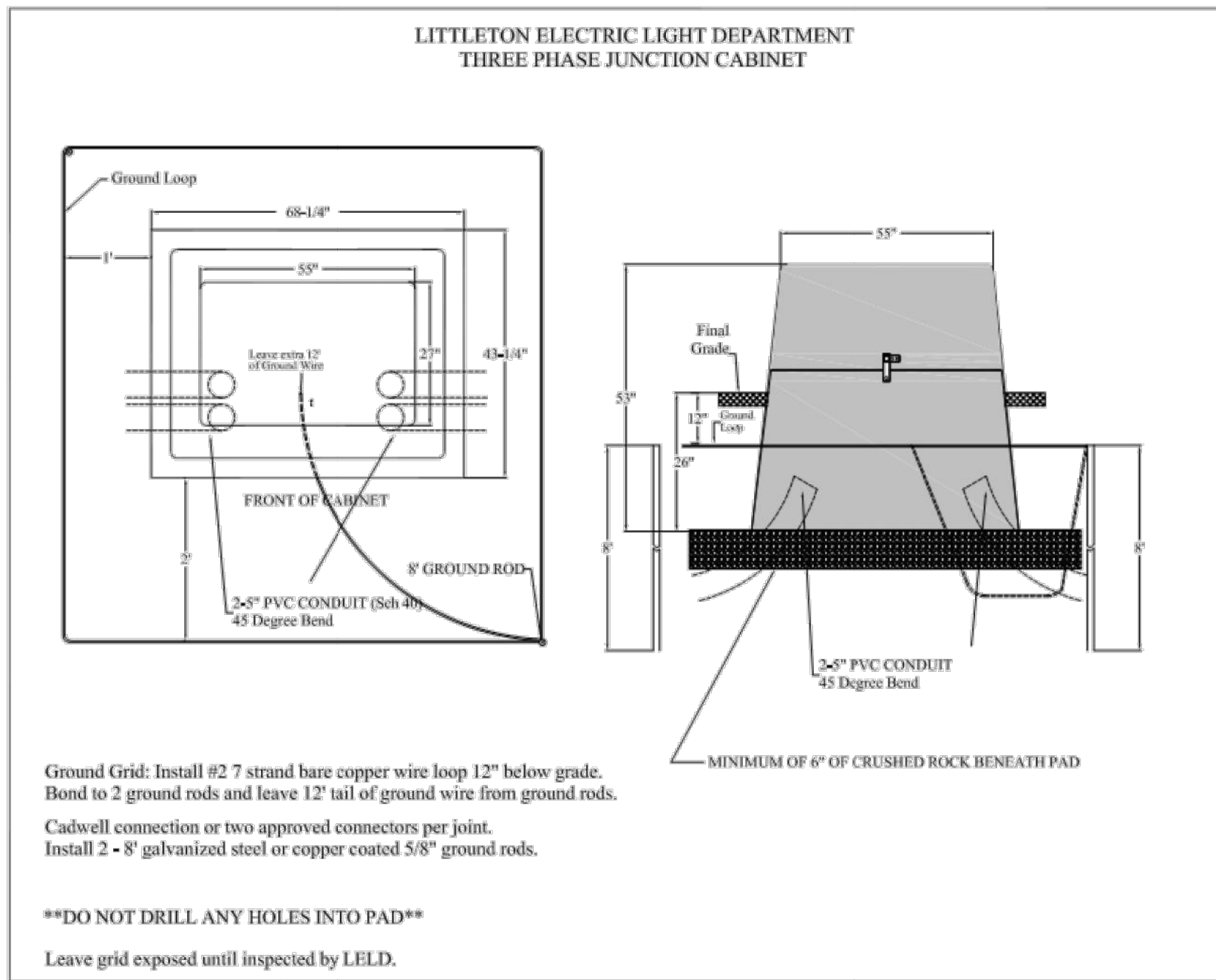
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Notes:

1. Refer to Appendix D & E details for location of conduit within pad.
2. Meter socket location to be approved by LELD engineering.



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Kimley»Horn

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DKO1_EV
EV INFRASTRUCTURE PLAN
151 TAYLOR STREET
LITTLETON, MA 01460

DESIGNED
AND PROVIDED
BY OTHERS

REVISONS	No.	DATE	BY	REVISIONS									
				OVERALL TREE PLANTING PLAN	10/02/2024	FM	1	CLIENT DIRECTED CHANGES	10/17/2024	JG	2	CLIENT DIRECTED CHANGES	12/20/2024
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												
DESIGNED BY:				N/A									
DRAWN BY:				N/A									
CHECKED BY:				N/A									
DATE:				12/20/2024									
				KIMLEY-HORN PROJECT NO. 115319967									

UTILITY DETAILS (BY OTHERS)

SHEET NUMBER

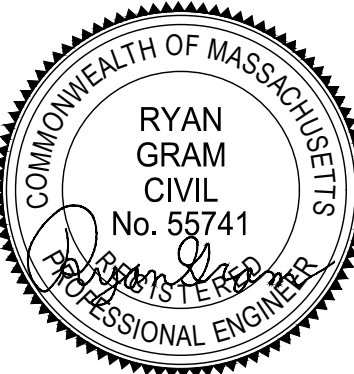
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G5.1	329113	SOIL PREPARATION
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SUBMITTAL REGISTER		
SUBMITTAL	NAME	TYPE
015000-01	SITE UTILIZATION PLAN	I
017419-01	WASTE MANAGEMENT PLAN	I
024119-01	PROPOSED DEMOLITION PROTECTION MEASURES	I
024119-02	DEMOLITION SCHEDULE	I
024119-03	PRE-DEMOLITION DOCUMENTATION	I
031000-01	CONCRETE FORM PRODUCT DATA AND SHOP DRAWINGS	A
031000-02	CONCRETE FORM FIELD QUALITY-CONTROL REPORTS	I
032000-01	CONCRETE REINFORCEMENT PRODUCT DATA AND SHOP DRAWINGS	A
032000-02	CONCRETE REINFORCEMENT FIELD QUALITY CONTROL REPORTS	I
033000-01	CONCRETE PRODUCT DATA, DESIGN MIXTURES, SCHEDULES, AND SHOP DRAWINGS	A
033000-02	CONCRETE FIELD QUALITY CONTROL REPORTS	I
260513-01	MEDIUM-VOLTAGE CABLE AND ACCESSORIES PRODUCT DATA	A
260519-01	LOW-VOLTAGE CONDUCTORS AND CABLE AND ACCESSORIES PRODUCT DATA	A
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260529-01	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS PRODUCT DATA AND SHOP DRAWINGS	A
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260546.16-01	SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS PRODUCT DATA	A
260553-01	IDENTIFICATION FOR ELECTRICAL SYSTEMS PRODUCT DATA	A
260553-02	IDENTIFICATION FOR ELECTRICAL SYSTEMS SAMPLES	I
262816-01	ENCLOSED SWITCHES AND CIRCUIT BREAKERS PRODUCT DATA	A
312000-01	EARTH MOVING MATERIAL TEST REPORTS	I
315000-02	UNDERGROUND UTILITY RECORD DRAWINGS	C
321216-01	ASPHALT HOT-MIX DESIGN	A
321313-01	CONCRETE PAVEMENT DESIGN MIXTURES	A
329113-01	SOIL PREPARATION PRODUCT DATA	A
329113-02	SOIL PREPARATION FIELD QUALITY-CONTROL REPORTS	I
329200-01	TURF AND GRASSES PRODUCT CERTIFICATES AND CERTIFICATIONS	I
329300-01	PLANT PRODUCT DATA, CERTIFICATES, AND WARRANTIES	I
329300-02	PLANT MULCH SAMPLES	I
NOTES:		
1. SUBMITTAL SCHEDULE PROVIDES A BASIS OF SUBMITTALS BASED ON PROJECT SPECIFICATIONS. SEE INDIVIDUAL SPECIFICATION SECTION FOR REQUIREMENTS OF EACH SUBMITTAL. ADDITIONAL SUBMITTALS MAY BE REQUIRED FOR SPECIFIC PRODUCTS.		
2. SUBMITTAL SCHEDULE PROVIDES A TEMPLATE FOR SUBMITTALS. CONTRACTOR MAY COMBINE SUBMITTALS FOR A SPECIFICATION SECTION OR COMBINE SUBMITTALS FOR MULTIPLE SIMILAR SECTIONS INTO A SINGLE SUBMITTAL. SUBMITTAL SHALL IDENTIFY COMBINED SUBMITTALS ON THE BASIS OF THIS SUBMITTAL NUMBERING SCHEME.		
3. SUBMITTAL TYPES:		
A - ACTION SUBMITTAL - REQUIRED FOR REVIEW BY ENGINEER		
I - INFORMATIONAL SUBMITTAL - REQUIRED FOR PROJECT RECORD		
C - CLOSEOUT SUBMITTAL - REQUIRED FOR PROJECT CLOSEOUT		

MASTER SPECS	
<p>SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS</p> <p>PART 1 - GENERAL</p> <p>1.1 SUMMARY</p> <p>A. SECTION INCLUDES REQUIREMENTS FOR TEMPORARY UTILITIES, SUPPORT FACILITIES, AND SECURITY AND PROTECTION FACILITIES.</p> <p>1.2 USE CHARGES</p> <p>A. INSTALLATION, REMOVAL, AND USE CHARGES FOR TEMPORARY FACILITIES SHALL BE INCLUDED IN THE CONTRACT SUM UNLESS OTHERWISE INDICATED. ALLOW OTHER ENTITIES ENGAGED IN THE PROJECT TO USE TEMPORARY SERVICES AND FACILITIES WITHOUT COST, INCLUDING, BUT NOT LIMITED TO TESTING AGENCIES AND AUTHORITIES HAVING JURISDICTION.</p> <p>B. ELECTRIC POWER SERVICE FROM EXISTING SYSTEM. ELECTRIC POWER FROM OWNER'S EXISTING SYSTEM IS AVAILABLE FOR USE WITHOUT METERING AND WITHOUT PAYMENT OF USE CHARGES. PROVIDE CONNECTIONS AND EXTENSIONS OF SERVICES AS REQUIRED FOR CONSTRUCTION OPERATIONS.</p> <p>1.3 SUBMITTALS</p> <p>A. SITE UTILIZATION PLAN: SHOW TEMPORARY FACILITIES, TEMPORARY UTILITY LINES AND CONNECTIONS, STAGING AREAS, CONSTRUCTION SITE ENTRANCES, VEHICLE CIRCULATION, AND PARKING AREAS FOR CONSTRUCTION PERSONNEL.</p> <p>PART 2 - PRODUCTS</p> <p>2.1 TEMPORARY FACILITIES</p> <p>A. FIELD OFFICES: PREFABRICATED OR MOBILE UNITS WITH SERVICEABLE FINISHES, TEMPERATURE CONTROLS, AND FOUNDATIONS ADEQUATE FOR NORMAL LOADING.</p> <p>PART 3 - EXECUTION</p> <p>3.1 TEMPORARY FACILITIES, GENERAL</p> <p>A. CONSERVATION: COORDINATE CONSTRUCTION AND USE OF TEMPORARY FACILITIES WITH CONSIDERATION GIVEN TO CONSERVATION OF ENERGY, WATER, AND MATERIALS. COORDINATE USE OF TEMPORARY UTILITIES TO MINIMIZE WASTE.</p> <p>3.2 INSTALLATION, GENERAL</p> <p>A. LOCATE FACILITIES WHERE THEY WILL SERVE PROJECT ADEQUATELY AND RESULT IN MINIMUM INTERFERENCE WITH PERFORMANCE OF THE WORK. RELOCATE AND MODIFY FACILITIES AS REQUIRED BY PROGRESS OF THE WORK.</p> <p>B. PROVIDE EACH FACILITY READY FOR USE WHEN NEEDED TO AVOID DELAY. DO NOT REMOVE UNTIL FACILITIES ARE NO LONGER NEEDED OR ARE REPLACED BY AUTHORIZED USE OF COMPLETED PERMANENT FACILITIES.</p> <p>3.3 TEMPORARY UTILITY INSTALLATION</p> <p>A. SANITARY FACILITIES: PROVIDE TEMPORARY TOILETS, WASH FACILITIES, AND DRINKING WATER FOR USE OF CONSTRUCTION PERSONNEL. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR TYPE, NUMBER, LOCATION, OPERATION, AND MAINTENANCE OF FIXTURES AND FACILITIES.</p> <p>B. ELECTRIC POWER SERVICE: PROVIDE ELECTRIC POWER SERVICE AND DISTRIBUTION SYSTEM OF SUFFICIENT SIZE, CAPACITY, AND POWER CHARACTERISTICS REQUIRED FOR CONSTRUCTION OPERATIONS.</p> <p>C. LIGHTING: PROVIDE TEMPORARY LIGHTING WITH LOCAL SWITCHING THAT PROVIDES ADEQUATE ILLUMINATION FOR CONSTRUCTION OPERATIONS, OBSERVATIONS, INSPECTIONS, AND TRAFFIC CONDITIONS.</p> <p>3.4 SUPPORT FACILITIES INSTALLATION</p> <p>A. WASTE DISPOSAL FACILITIES: PROVIDE WASTE-COLLECTION CONTAINERS IN SIZES ADEQUATE TO HANDLE WASTE FROM CONSTRUCTION OPERATIONS. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. COMPLY WITH PROGRESS CLEANING REQUIREMENTS IN SECTION 017300 "EXECUTION."</p> <p>B. LIFTS AND HOISTS: PROVIDE FACILITIES NECESSARY FOR HOISTING MATERIALS AND PERSONNEL.</p> <p>3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION</p> <p>A. PROTECTION OF EXISTING FACILITIES: PROTECT EXISTING VEGETATION, EQUIPMENT, STRUCTURES, UTILITIES, AND OTHER IMPROVEMENTS AT PROJECT SITE AND ON ADJACENT PROPERTIES, EXCEPT THOSE INDICATED TO BE REMOVED OR ALTERED. REPAIR DAMAGE TO EXISTING FACILITIES.</p> <p>1. WHERE ACCESS TO ADJACENT PROPERTIES IS REQUIRED IN ORDER TO AFFECT PROTECTION OF EXISTING FACILITIES, OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNER TO ACCESS PROPERTY FOR THAT PURPOSE.</p> <p>B. ENVIRONMENTAL PROTECTION: PROVIDE PROTECTION, OPERATE TEMPORARY FACILITIES, AND CONDUCT CONSTRUCTION AS REQUIRED TO COMPLY WITH ENVIRONMENTAL REGULATIONS AND THAT MINIMIZE POSSIBLE AIR, WATERWAY, AND SUBSOIL CONTAMINATION OR POLLUTION OR OTHER UNDESIRABLE EFFECTS.</p> <p>C. TEMPORARY EROSION AND SEDIMENTATION CONTROL: PROVIDE MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF AND ADJACENT AREAS DUE TO UNDISTURBED AREAS AND TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO REQUIREMENTS OF EPA CONSTRUCTION GENERAL PERMIT OR AUTHORITIES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.</p> <p>1. VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS TREE- OR PLANT-PROTECTION ZONES.</p> <p>2. INSPECT, REPAIR, AND MAINTAIN EROSION- AND SEDIMENTATION-CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.</p> <p>3. CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFECTED BY EROSION AND SEDIMENTATION FROM PROJECT SITE DURING THE COURSE OF PROJECT.</p> <p>4. REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.</p> <p>D. STORMWATER CONTROL: COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PROVIDE BARRIERS IN AND AROUND EXCAVATIONS AND SUBGRADE CONSTRUCTION TO PREVENT FLOODING BY RUNOFF OF STORMWATER FROM HEAVY RAINS.</p> <p>E. TREE AND PLANT PROTECTION: INSTALL TEMPORARY FENCING LOCATED AS INDICATED OR OUTSIDE THE DRIP LINE OF TREES TO PROTECT VEGETATION FROM DAMAGE FROM CONSTRUCTION OPERATIONS. PROTECT TREE ROOT SYSTEMS FROM DAMAGE, FLOODING, AND EROSION.</p> <p>3.6 OPERATION, TERMINATION, AND REMOVAL</p> <p>A. TERMINATION AND REMOVAL: REMOVE EACH TEMPORARY FACILITY WHEN NEED FOR ITS SERVICE HAS ENDED. WHEN IT HAS BEEN REPLACED BY AUTHORIZED USE OF A PERMANENT FACILITY, OR NO LATER THAN SUBSTANTIAL COMPLETION, COMPLETE OR, IF NECESSARY, RESTORE PERMANENT CONSTRUCTION THAT MAY HAVE BEEN DELAYED BECAUSE OF INTERFERENCE WITH TEMPORARY FACILITY. REPAIR DAMAGED WORK, CLEAN EXPOSED SURFACES, AND REPLACE CONSTRUCTION THAT CANNOT BE SATISFACTORILY REPAIRED.</p>	<p>SECTION 024119 - SELECTIVE DEMOLITION</p> <p>PART 1 - GENERAL</p> <p>1.1 SUMMARY</p> <p>A. SECTION INCLUDES:</p> <p>1. DEMOLITION AND REMOVAL OF SELECTED PORTIONS OF STRUCTURE.</p> <p>2. DEMOLITION AND REMOVAL OF SELECTED SITE ELEMENTS.</p> <p>3. SALVAGE OF EXISTING ITEMS TO BE REUSED OR RECYCLED.</p> <p>1.2 MATERIALS OWNERSHIP</p> <p>A. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF CONTRACTOR.</p> <p>B. HISTORIC ITEMS, RELICS, ANTIQUES, AND SIMILAR OBJECTS INCLUDING, BUT NOT LIMITED TO, CORNERSTONES AND THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, AND OTHER ITEMS OF INTEREST OR VALUE TO OWNER THAT MAY BE UNCOVERED DURING DEMOLITION REMAIN THE PROPERTY OF OWNER.</p> <p>1. CAREFULLY SALVAGE IN A MANNER TO PREVENT DAMAGE AND PROMPTLY RETURN TO OWNER.</p> <p>1.3 SUBMITTALS</p> <p>A. PROPOSED PROTECTION MEASURES: SUBMIT REPORT, INCLUDING DRAWINGS, THAT INDICATES THE MEASURES PROPOSED FOR PROTECTING INDIVIDUALS AND PROPERTY. INDICATE PROPOSED LOCATIONS AND CONSTRUCTION OF BARRIERS.</p> <p>B. SCHEDULE OF SELECTIVE DEMOLITION ACTIVITIES WITH STARTING AND ENDING DATES FOR EACH ACTIVITY.</p> <p>C. PREDEMOLITION PHOTOGRAPHS OR VIDEO.</p> <p>1.4 FIELD CONDITIONS</p> <p>A. OWNER WILL OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED.</p> <p>B. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.</p> <p>C. UTILITY SERVICE: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.</p> <p>D. ARRANGE SELECTIVE DEMOLITION SCHEDULE SO AS NOT TO INTERFERE WITH OWNER'S OPERATIONS.</p> <p>PART 2 - PRODUCTS</p> <p>2.1 PERFORMANCE REQUIREMENTS</p> <p>A. REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.</p> <p>B. STANDARDS: COMPLY WITH ASSE A10.6 AND NFPA 241.</p> <p>PART 3 - EXECUTION</p> <p>3.1 EXAMINATION</p> <p>A. INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND SALVAGED.</p> <p>3.2 UTILITY SERVICES</p> <p>A. EXISTING SERVICES/SYSTEMS TO REMAIN: MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.</p> <p>B. EXISTING SERVICES/SYSTEMS TO BE REMOVED, RELOCATED, OR ABANDONED: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED.</p> <p>1. ARRANGE TO SHUT OFF UTILITIES WITH UTILITY COMPANIES.</p> <p>2. IF SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE TEMPORARY SERVICES/SYSTEMS THAT BYPASS AREA OF SELECTIVE DEMOLITION AND THAT MAINTAIN CONTINUITY OF SERVICES/SYSTEMS TO OTHER PARTS OF BUILDING.</p> <p>3.3 PROTECTION</p> <p>A. TEMPORARY PROTECTION: PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.</p> <p>B. REMOVE TEMPORARY BARRICADES AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST.</p> <p>3.4 SELECTIVE DEMOLITION</p> <p>A. GENERAL: DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS.</p> <p>1. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.</p> <p>2. LOCATE SELECTIVE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.</p> <p>3. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. COMPLY WITH REQUIREMENTS IN SECTION 017419 "CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL."</p> <p>B. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT SELECTIVE DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.</p> <p>C. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION, WHEN PERMITTED BY ENGINEER. ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION, CLEANED, AND REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE.</p> <p>3.5 CLEANING</p> <p>A. REMOVE DEMOLITION WASTE, MATERIALS FROM PROJECT SITE AND RECYCLE OR DISPOSE OF THEM ACCORDING TO SECTION 017419 "CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL."</p> <p>1. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.</p> <p>2. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.</p> <p>B. BURNING: DO NOT BURN DEMOLISHED MATERIALS.</p>
END OF SECTION 015000	
<p>SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL</p> <p>PART 1 - GENERAL</p> <p>1.1 SUMMARY</p> <p>A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR THE FOLLOWING:</p> <p>1. SALVAGING NONHAZARDOUS [DEMOLITION] [AND] [CONSTRUCTION] WASTE.</p> <p>2. RECYCLING NONHAZARDOUS [DEMOLITION] [AND] [CONSTRUCTION] WASTE.</p> <p>3. DISPOSING OF NONHAZARDOUS [DEMOLITION] [AND] [CONSTRUCTION] WASTE.</p> <p>1.2 DEFINITIONS</p> <p>A. CONSTRUCTION WASTE: BUILDING, STRUCTURE, AND SITE IMPROVEMENT MATERIALS AND OTHER SOLID WASTE RESULTING FROM CONSTRUCTION, REMODELING, RENOVATION, OR REPAIR OPERATIONS. CONSTRUCTION WASTE INCLUDES PACKAGING.</p> <p>B. DEMOLITION WASTE: BUILDING, STRUCTURE, AND SITE IMPROVEMENT MATERIALS RESULTING FROM DEMOLITION OPERATIONS.</p> <p>C. DISPOSAL: REMOVAL OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALVAGE, SALE, RECYCLING, OR DEPOSIT IN LANDFILL, INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, OR DESIGNATED SPOIL AREAS ON OWNER'S PROPERTY.</p> <p>D. RECYCLE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE FOR SUBSEQUENT PROCESSING IN PREPARATION FOR REUSE.</p> <p>E. SALVAGE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALE OR REUSE IN ANOTHER FACILITY.</p> <p>F. SALVAGE AND REUSE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT INCORPORATION INTO THE WORK.</p> <p>1.3 SUBMITTALS</p> <p>A. WASTE MANAGEMENT PLAN: SUBMIT PLAN WITHIN 30 DAYS OF DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK.</p> <p>1.4 WASTE MANAGEMENT PLAN</p> <p>A. GENERAL: DEVELOP A WASTE MANAGEMENT PLAN ACCORDING TO REQUIREMENTS IN THIS SECTION. PLAN SHALL CONSIST OF WASTE IDENTIFICATION, WASTE REDUCTION WORK PLAN, AND COST/BENEFIT ANALYSIS. DISTINGUISH BETWEEN DEMOLITION AND CONSTRUCTION WASTE. INDICATE QUANTITIES BY WEIGHT OR VOLUME, BUT USE SAME UNITS OF MEASURE THROUGHOUT WASTE MANAGEMENT PLAN.</p> <p>B. WASTE IDENTIFICATION: INDICATE ANTICIPATED TYPES AND QUANTITIES OF DEMOLITION, SITE-CLEANING, AND CONSTRUCTION WASTE GENERATED BY THE WORK. INCLUDE ESTIMATED QUANTITIES AND ASSUMPTIONS FOR ESTIMATES.</p> <p>PART 2 - PRODUCTS</p> <p>NOT USED</p> <p>PART 3 - EXECUTION</p> <p>3.1 PLAN IMPLEMENTATION</p> <p>A. GENERAL: IMPLEMENT APPROVED WASTE MANAGEMENT PLAN. PROVIDE HANDLING, CONTAINERS, STORAGE, SIGNAGE, TRANSPORTATION, AND OTHER ITEMS AS REQUIRED TO IMPLEMENT WASTE MANAGEMENT PLAN DURING THE ENTIRE DURATION OF THE CONTRACT.</p> <p>B. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT WASTE MANAGEMENT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.</p> <p>1. DESIGNATE AND LABEL SPECIFIC AREAS ON PROJECT SITE NECESSARY FOR SEPARATING MATERIALS THAT ARE TO BE SALVAGED AND RECYCLED.</p> <p>2. COMPLY WITH SECTION 015000 TEMPORARY FACILITIES AND CONTROLS FOR CONTROLLING DUST AND DIRT, ENVIRONMENTAL PROTECTION, AND NOISE CONTROL.</p> <p>3.2 RECYCLING DEMOLITION WASTE</p> <p>A. ASPHALT PAVING: BREAK UP AND TRANSPORT PAVING TO ASPHALT-RECYCLING FACILITY.</p> <p>B. CONCRETE: REMOVE REINFORCEMENT AND OTHER METALS FROM CONCRETE AND SORT WITH OTHER METALS.</p> <p>1. PULVERIZE CONCRETE TO MAXIMUM 4-INCH (100-MM) SIZE.</p> <p>C. METALS: SEPARATE METALS BY TYPE.</p> <p>1. REMOVE AND DISPOSE OF BOLTS, NUTS, WASHERS, AND OTHER ROUGH HARDWARE.</p> <p>D. CONDUIT: REDUCE CONDUIT TO STRAIGHT LENGTHS AND STORE BY MATERIAL AND SIZE.</p> <p>3.3 RECYCLING CONSTRUCTION WASTE</p> <p>A. PACKAGING:</p> <p>2. CARDBOARD AND BOXES: BREAK DOWN PACKAGING INTO FLAT SHEETS. BUNDLE AND STORE IN A DRY LOCATION.</p> <p>3. POLYSTYRENE PACKAGING: SEPARATE FLAT MATERIALS.</p> <p>4. PALLETS: AS MUCH AS POSSIBLE, REQUIRE DELIVERIES USING PALLETS TO REMOVE PALLETS FROM PROJECT SITE. FOR PALLETS THAT REMAIN ON-SITE, BREAK DOWN PALLETS INTO COMPONENT WOOD PIECES AND COMPLY WITH REQUIREMENTS FOR RECYCLING WOOD.</p> <p>5. CRATES: BREAK DOWN CRATES INTO COMPONENT WOOD PIECES AND COMPLY WITH REQUIREMENTS FOR RECYCLING WOOD.</p> <p>3.4 DISPOSAL OF WASTE</p> <p>A. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE RECYCLED, REMOVE WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN A LANDFILL OR INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.</p> <p>1. EXCEPT AS OTHERWISE SPECIFIED, DO NOT ALLOW WASTE MATERIALS THAT ARE TO BE DISPOSED OF ACCUMULATE ON-SITE.</p> <p>2. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.</p> <p>B. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE SALVAGED OR RECYCLED, REMOVE WASTE MATERIALS AND LEGALLY DISPOSE OF AT DESIGNATED SPOIL AREAS ON OWNER'S PROPERTY.</p> <p>C. BURNING: DO NOT BURN WASTE MATERIALS.</p>	
END OF SECTION 017419	



12/20/2024

REVISIONS		DATE	BY
No.	1	10/22/2024	FM
2	10/17/2024	JG	
3	12/20/2024	KN	
4			
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12			

DESIGNED BY:	LKC
DRAWN BY:	JWG
CHECKED BY:	AA
DATE:	12/20/2024

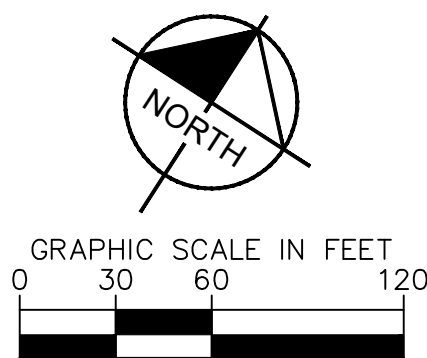
KIMLEY-HORN PROJECT NO.
115319967

MASTER SPECS

SHEET NUMBER

G2.0

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LEGEND	
	PROPOSED UNDERGROUND CONDUIT LINE
	EASEMENT BOUNDARY LINE
	50' WETLAND BUFFER
	100' WETLAND BUFFER
	NHESP BOUNDARY LINE
	WETLAND RESOURCE AREA

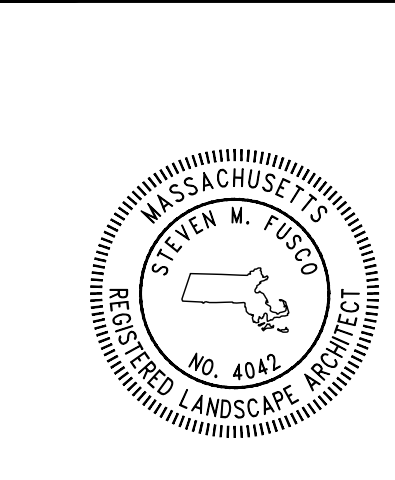
TREE REMOVAL LEGEND	
	8" PINUS STROBUS
	10" - 12" QUERCUS RUBRA
	18" DIA QUERCUS RUBRA

NOTES	
<ul style="list-style-type: none">TREE CLEARING WITHIN THE 50' WETLAND BUFFER IS 0 SFTREE CLEARING WITHIN THE 100' WETLAND BUFFER IS 2,372 SF6 TOTAL TREES OVER 6" DBH TO BE REMOVED, TOTALING 90" DBH TO BE REMOVED (SEE CALLOUTS ON PLAN)TREES WILL BE REPLANTED ON THE WESTERN PART OF THE SITE AS SHOWN (SEE ENLARGEMENT PLAN ON THE NEXT SHEET)THERE WILL BE A TOTAL OF 60 REPLACEMENT TREES PLANTED, RESULTING IN A TOTAL OF 90" DBH TO BE REPLANTEDEACH TREE WILL BE 1.5" CAL DBH AT PLANTING (60 REPLACEMENT TREES x 1.5" DBH PER TREE = 90" DBH REPLACEMENT)THE PROPOSED TREES WILL INCLUDE:<ul style="list-style-type: none">ACER SACCHARUMLIQUIDAMBAR STYRACIFLUANYSSA SYLVATICAQUERCUS PALUSTRISTILIA AMERICANASUGAR MAPLESWEET GUMSOUR GUMPIN OAKAMERICAN LINDEN	
SEE PLANT SCHEDULE ON NEXT SHEET FOR INFORMATION AND PLACEMENT	
MINIMUM TREE SPACING SHALL BE 12' O.C.	

DKO1_EV EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460

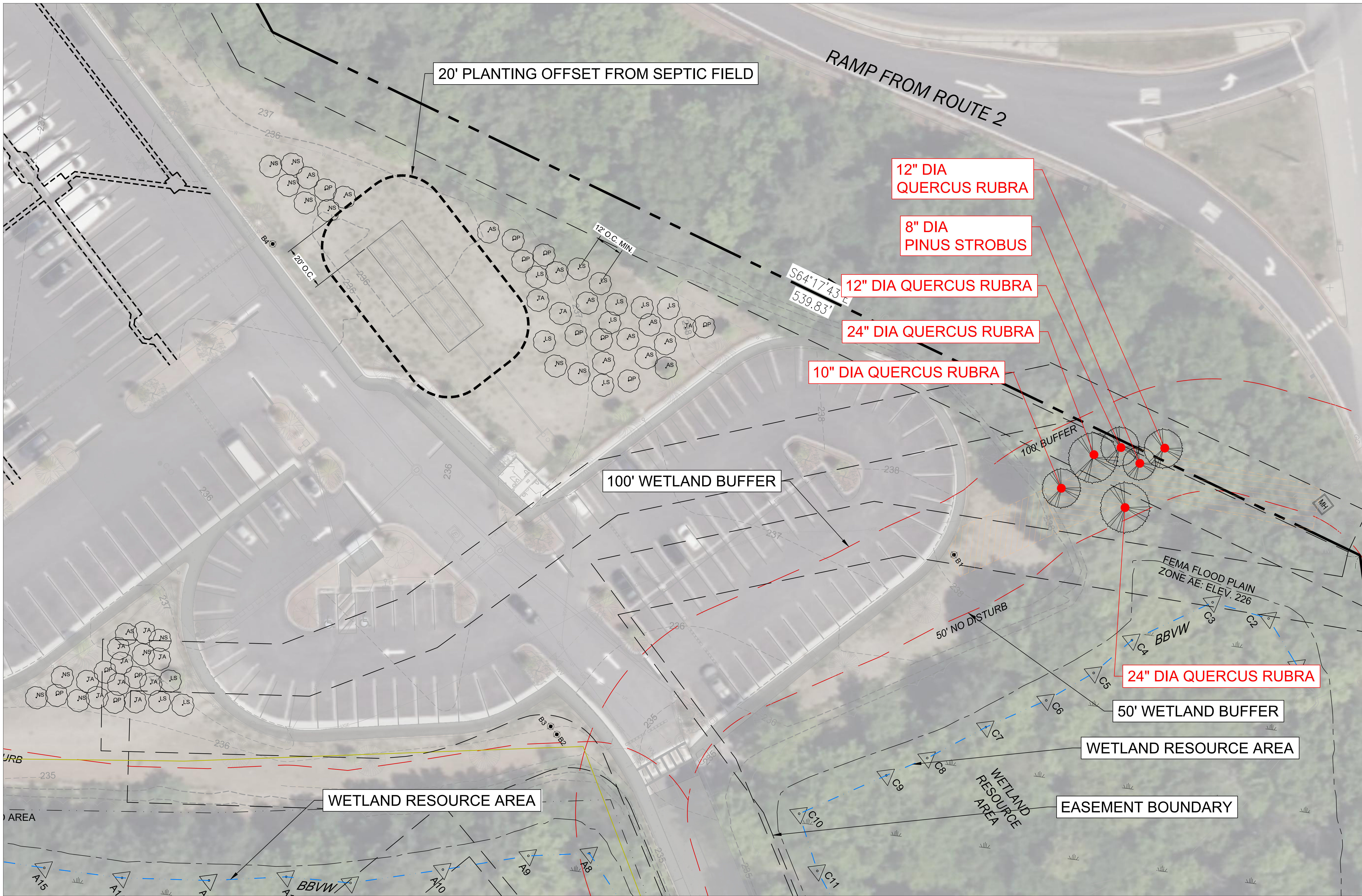
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12/22/2024

REVISIONS		DATE	BY
1	OVERALL TREE PLANTING PLAN	10/02/2024	FM
2	CLIENT DIRECTED CHANGES	10/11/2024	JG
3	CLIENT DIRECTED CHANGES	12/20/2024	KN
4			
5			
6			
7			
8			
9			
10			
11			
DESIGNED BY:		LYC	
DRAWN BY:		JWG	
CHECKED BY:		AA	
DATE:		12/20/2024	
KIMLEY-HORN PROJECT NO. 115319067			
OVERALL LANDSCAPE PLAN			
SHEET NUMBER L1.0			

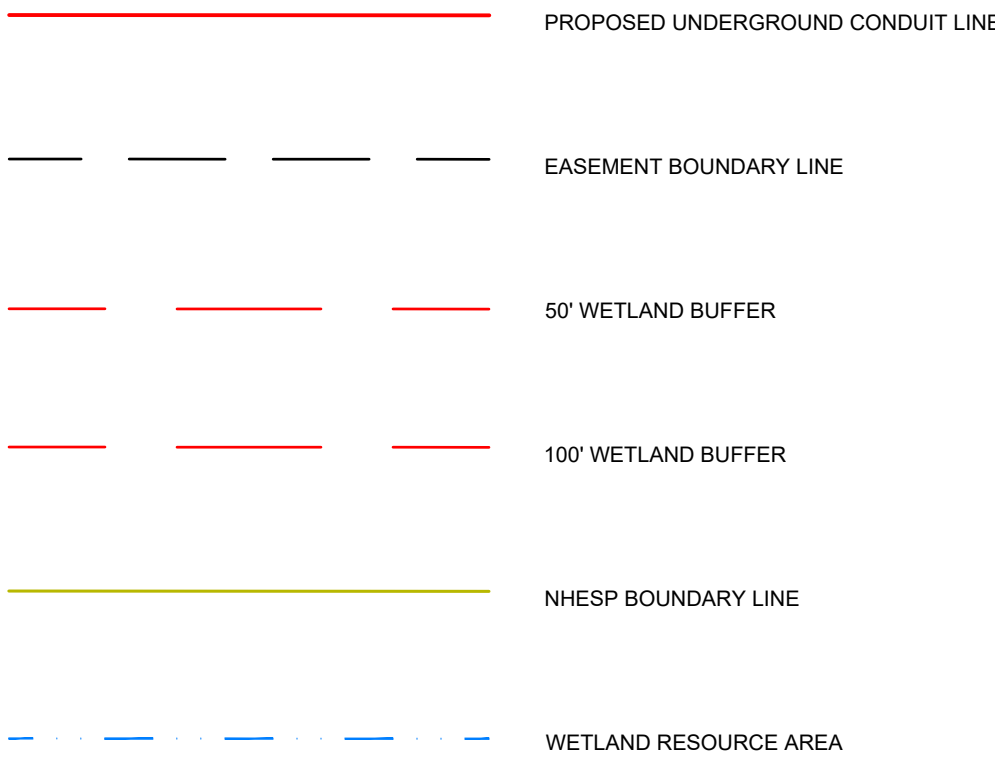
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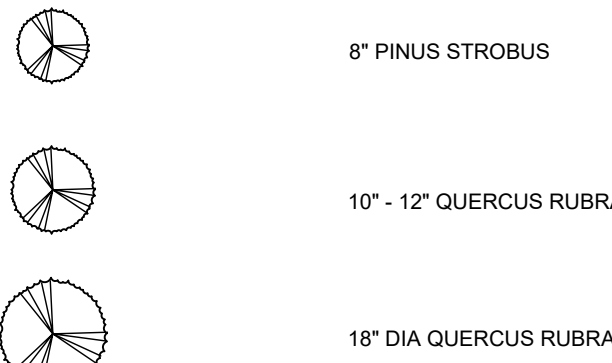
REPLACEMENT TREE PLANTING SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE AT PLANTING	ROOT	QTY
TREES						
	AS	Acer saccharum	Sugar Maple	1.5" Cal. DBH	B&B	12
	LS	Liquidambar styraciflua	Sweet Gum	1.5" Cal. DBH	B&B	12
	NS	Nyssa sylvatica	Sour Gum	1.5" Cal. DBH	B&B	12
	DP	Quercus palustris	Pin Oak	1.5" Cal. DBH	B&B	12
	JA	Tilia americana	American Linden	1.5" Cal. DBH	B&B	12
SUBTOTAL:						60

LEGEND



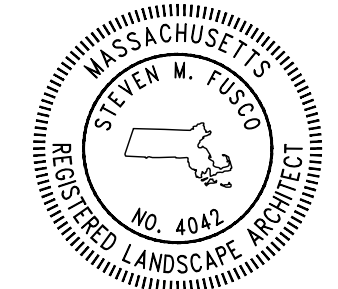
TREE REMOVAL LEGEND



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DKO1_EV
EV INFRASTRUCTURE PLAN
151 TAYLOR STREET
LITTLETON, MA 01460



12/10/2024

REVISIONS		DATE	BY
No.			
1	OVERALL TREE PLANTING PLAN	10/02/2024	FM
2	CLIENT DIRECTED CHANGES	10/11/2024	JG
3	CLIENT DIRECTED CHANGES	12/20/2024	KN
4			
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11			
DESIGNED BY:		LKC	
DRAWN BY:		JWG	
CHECKED BY:		AA	
DATE:		12/20/2024	

ENLARGED
LANDSCAPE
PLAN

SHEET NUMBER
L1.1

