



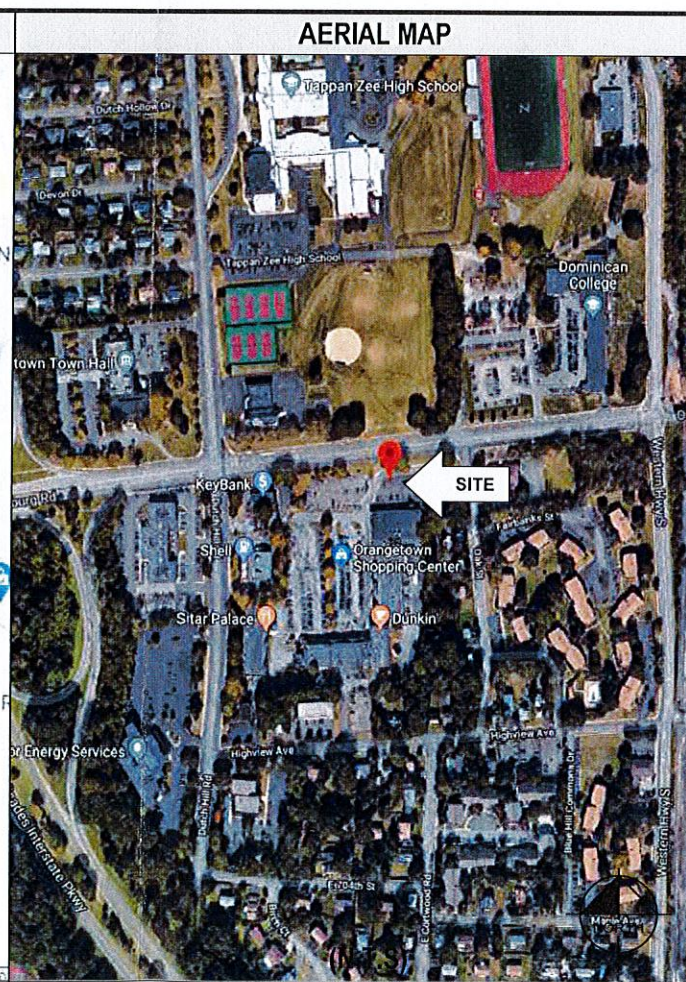
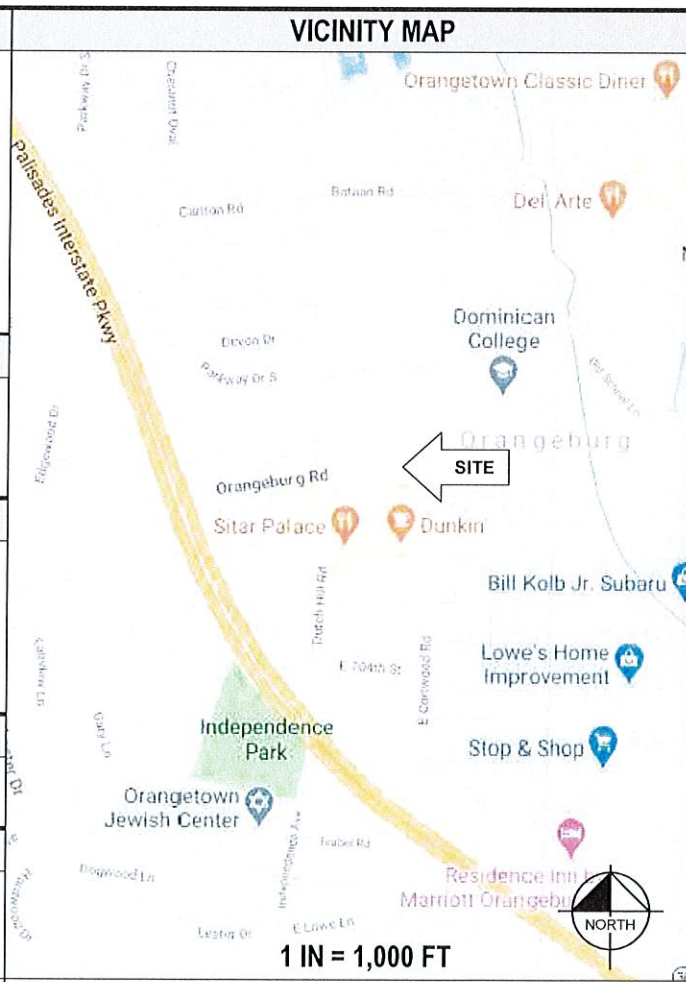
RECEIVED
 JUN 5 2020
 TOWN OF ORANGETOWN
 BUILDING DEPARTMENT



Kimley»Horn
 of New York, P.C.
 1 N LEXINGTON AVE
 SUITE 1575
 WHITE PLAINS, NY 10601
 914-368-9200
 Job Name:
 ORANGETOWN
 SHOPPING
 CENTER
 45 ORANGETOWN ROAD
 ORANGETOWN, NY 10962

PROJECT NUMBER: 210180
 INSTALLATION OF ELECTRIC VEHICLES CHARGING EQUIPMENT
 ORANGETOWN SHOPPING CENTER
 45 ORANGETOWN ROAD
 ORANGETOWN, NY 10962

SITE INFORMATION	
EY SITE ADDRESS: 45 ORANGETOWN RD ORANGETOWN, NY 10962 PROPERTY OWNER: URSTADT BIDDLE ORANGETOWN, LLC EQUIPMENT SUPPLIER: ELECTRIFY AMERICA, LLC, 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON, VIRGINIA 20191 POWER COMPANY: ORANGE AND ROCKLAND UTILITIES ESCOBAR.J@ORU.COM P: 845-577-3290 JONATHAN ESCOBAR	COUNTY: ROCKLAND COUNTY LATITUDE (NAD83): 41°02'44.9"N LONGITUDE (NAD83): 73°57'10.5"W CONTACT ENGINEER: KIMLEY-HORN OF NEW YORK, P.C. ROSS.STEVENS@KIMLEY-HORN.COM P: 703-674-1321 ROSS STEVENS, P.E. (VA)
BENCHMARK & BASIS OF BEARING	
BENCHMARK: TBM #1, CUT SQUARE ON TOP OF CURB. ELEVATION: 174.06' (NAVD 88) BASIS OF BEARINGS: GRID NORTH, STATE PLANE COORDINATE SYSTEM, NAD83, NEW YORK EAST ZONE.	
APPLICABLE CODES	
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE BUILDING/DWELLING, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE/LIFE SAFETY CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LOCAL GOVERNING AUTHORITY CODES.	
ZONING INFORMATION	
PERMITTING JURISDICTION: ZONING CLASS:	TOWN OF ORANGETOWN CS - COMMUNITY SHOPPING
FLOOD HAZARD AREA NOTE	
THIS SITE IS LOCATED IN FLOOD ZONE "X" PER FEMA FLOOD MAP FIRM 36087C 0187G EFFECTIVE DATE 03/03/14.	
CONTRACTOR NOTE	
CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND THE SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.	



PROJECT DESCRIPTION		
<ul style="list-style-type: none"> INSTALL (1) UTILITY TRANSFORMER INSTALL (1) SWITCHBOARD ASSEMBLY INSTALL (4) 150 KW SIGNET DISPENSERS INSTALL (4) 150 KW SIGNET POWER UNITS 		
DRAWING INDEX		
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SHEET DESCRIPTION: COVER SHEET AND PROJECT INFORMATION	
Project #:	210180
File:	CONSTRUCTION DOCUMENTS
Drawn by:	MCP
Date(s):	10/11/2019
	10/30/2019 REV #1 CDDO PLANS
	12/13/2019 REV #2 CDDO PLANS
	03/11/2020 REV #3 ARI SUBMITTAL

FOR REFERENCE ONLY DRAWINGS
 PROPERTY SURVEY
 STAGING PLAN

CALL BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 DIG SAFELY NEW YORK
 811 OR 1-800-962-7962
 3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

DO NOT SCALE DRAWINGS
 CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON
 THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY
 DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

ENGINEER OF RECORD
 MICHAEL W. JUNGHANS
 PE NUMBER: 072072
 KIMLEY-HORN OF NEW YORK, P.C.



STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE: WIDE FLANGE SHAPE: A992, 50KSI
ANGLE AND CHANNEL SHAPE: ASTM A36, 36 KSI PLATE: ASTM A36, 36KSI
PIPE: ASTM A53 GRADE B, 35 KSI
HSS: ASTM A500 GRADE B, 46KSI
- HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A325: ONE HIGH-STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.
- WELDING ELECTRODES SHALL COMPLY WITH AWS D1.1 USING A5.1 OR A5.5 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS SELECTED. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.
- UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.
- FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
- ALL EXPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.
- PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11

ANCHORAGE INSTALLATION NOTES

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

REINFORCED CONCRETE NOTES

- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED CONTINUOUS INSPECTION IS NOT REQUIRED. SLUMP: 4" MIN / 6" MAX.
I. AIR ENTRAINMENT: 4 1/2% - 7% BY VOLUME
- REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60, MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
- REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI 318 FOR MINIMUM CLEARANCES AND CONCRETE COVER.
- ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
- MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
- DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.7.
- EXCEPT AS DETAILED OR AUTHORIZED, MAKE BARS CONTINUOUS AROUND CORNERS WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.
- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" , ACI 318.
- PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.
- EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE CONCRETE PAD ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PRE-FABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

GROUNDING NOTES

- COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- ALL BELOW GRADE BONDS TO BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION-TYPE CONNECTIONS LISTED FOR USE IN THE APPLICATION WHICH THEY ARE INSTALLED.
- 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.
- 2014 NEC 250.121 EXCEPTION: A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN COMPLIANCE WITH 250.6(A) AND THE APPLICABLE REQUIREMENTS FOR BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR IN PARTS II, III, AND VI OF THIS ARTICLE SHALL BE PERMITTED TO SERVE AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR.

BULK TABLE - CS DISTRICT

REQUIREMENTS	REQUIRED	EXISTING	PROPOSED
MAX. FLOOR AREA RATIO	1.00	N/A	N/A
MIN. LOT AREA	2,500SF	10.98A	10.98A
MIN. LOT WIDTH	25'	440'	440'
MIN. STREET FRONTAGE	25'	350'	350'
FRONT YARD	45'	45'	N/A
SIDE YARD	0'	13'	N/A
TOTAL SIDE YARD	0'	25'	N/A
REAR YARD	25'	25'	N/A
MAX. BUILDING HEIGHT	1.33' FROM PROP. LINE FOR BLDG <22'	N/A	N/A



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



1 N LEXINGTON AVE
SUITE 1575
WHITE PLAINS, NY 10601
914-368-9200

Job Name:
ORANGETOWN SHOPPING CENTER

45 ORANGETOWN ROAD
ORANGETOWN, NY 10962



SHEET DESCRIPTION:
GENERAL NOTES

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MGP
Date(s): 10/11/2018
10/30/2018 REV #1: CD60 PLANS
12/13/2018 REV #2: CD100 PLANS
03/11/2020 REV #3: AM SUBMITTAL



KIMLEY-HORN.COM\AT-INVA\BEN_CIVIL\06667000_ELECTRIFY_AMERICA\NY210180 - ORANGETOWN_SC (URB) - ORANGETOWN_SC (URB)\DWG



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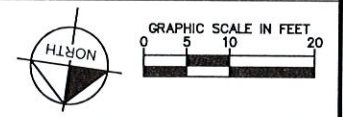
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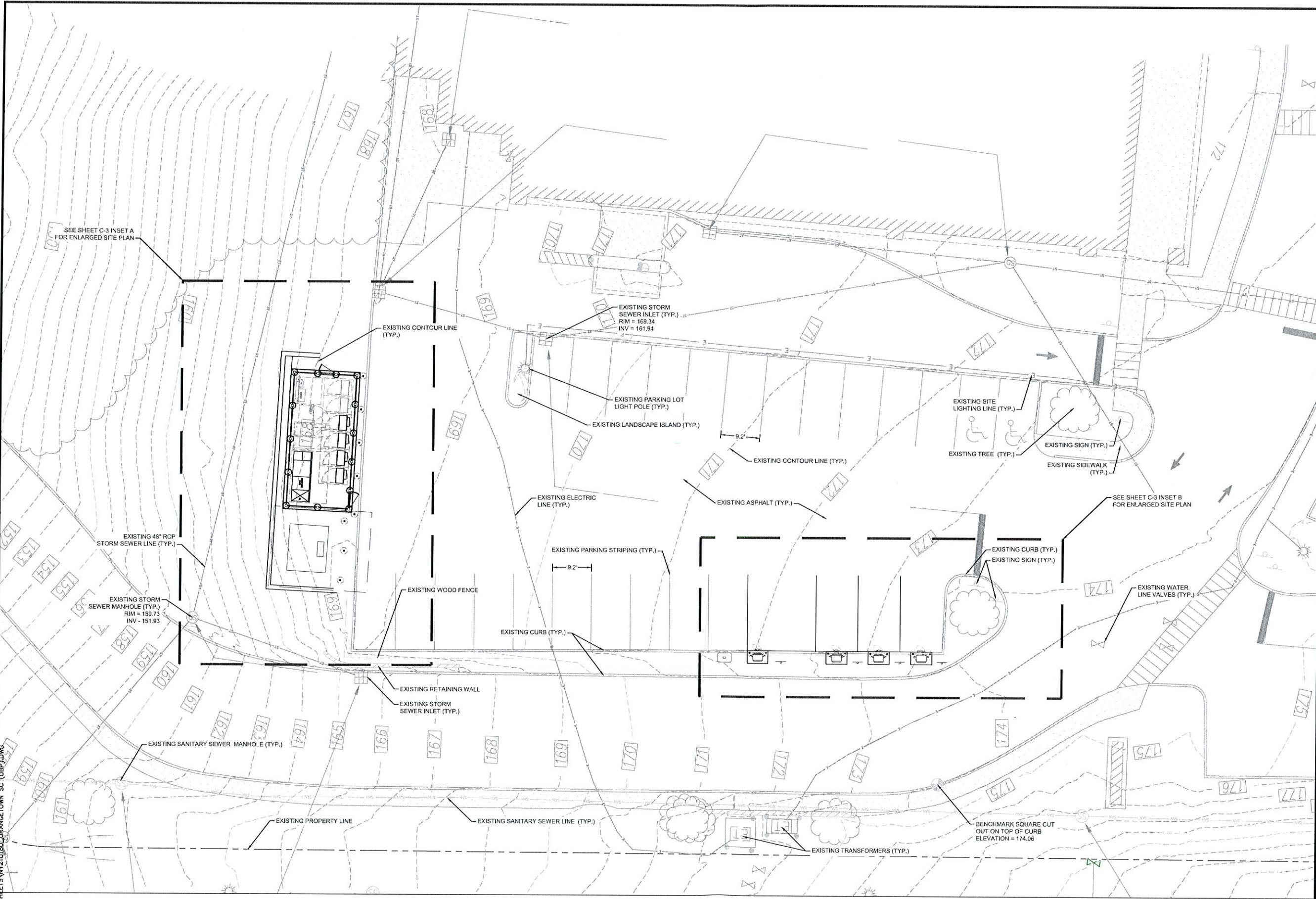
SHEET DESCRIPTION:
OVERALL SITE PLAN

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MDP
Date(s): 10/11/2019
10/30/2019 REV #1: CD90 PLANS
12/13/2019 REV #2: CD100 PLANS
03/11/2020 REV #3: ARI SUBMITTAL

A
C-1 **OVERALL SITE PLAN**

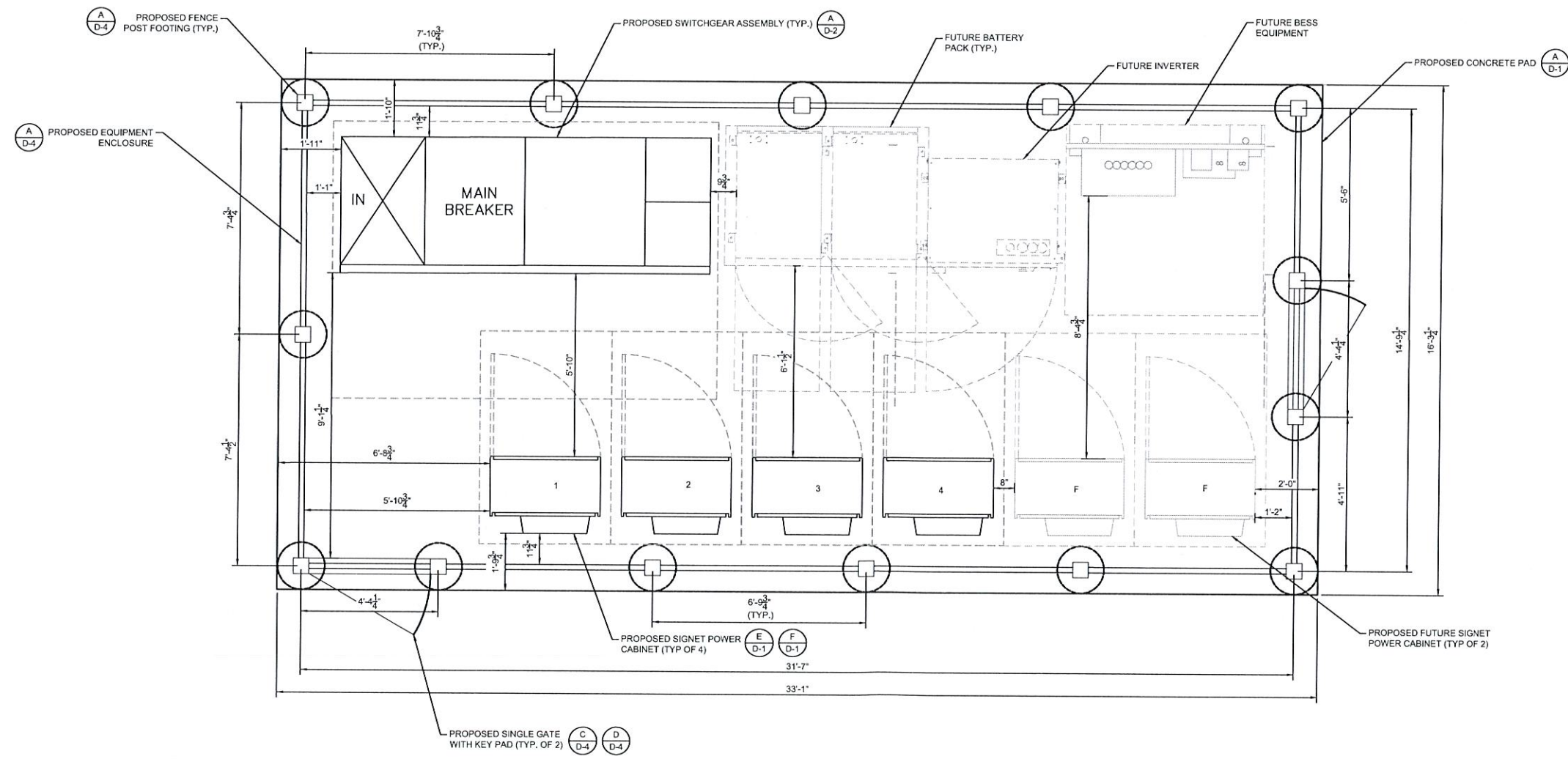


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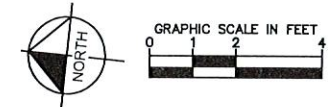


NOTES

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



ENLARGED EQUIPMENT LAYOUT



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SUITE 1575
WHITE PLAINS, NY 10601
914-368-9200

Job Name:
ORANGETOWN SHOPPING CENTER

45 ORANGETOWN ROAD
ORANGETOWN, NY 10962



SHEET DESCRIPTION:
ENLARGED EQUIPMENT LAYOUT

Project #:	210180
File:	CONSTRUCTION DOCUMENTS
Drawn by:	MDP
Date(s):	10/11/2019
	10/30/2019 REV #1 CDSG PLANS
	12/13/2019 REV #2 CDSG PLANS
	03/11/2020 REV #3 AMU SUBMITTAL



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electrify america

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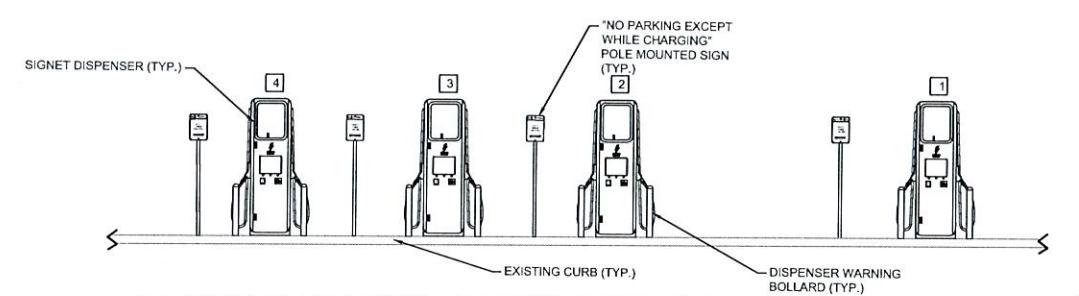
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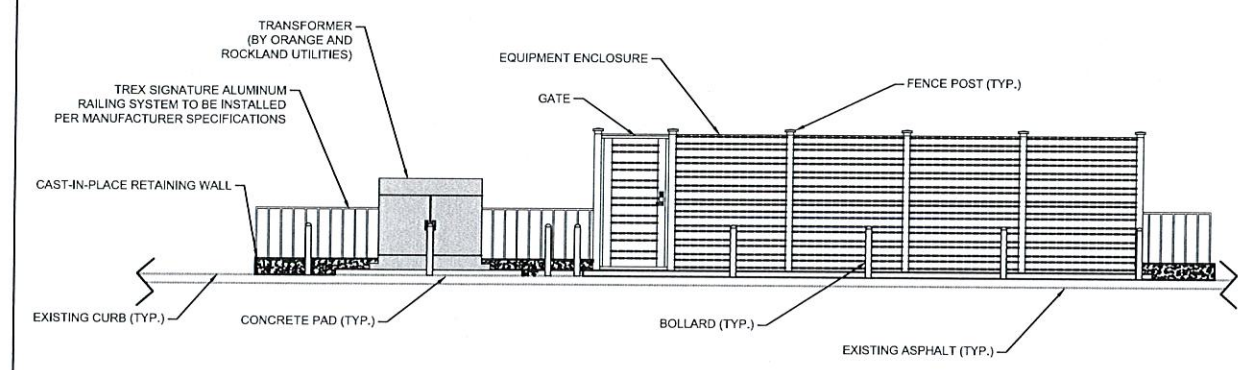
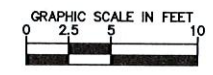
04/24/2020

SHEET DESCRIPTION:
SITE ELEVATION

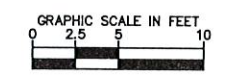
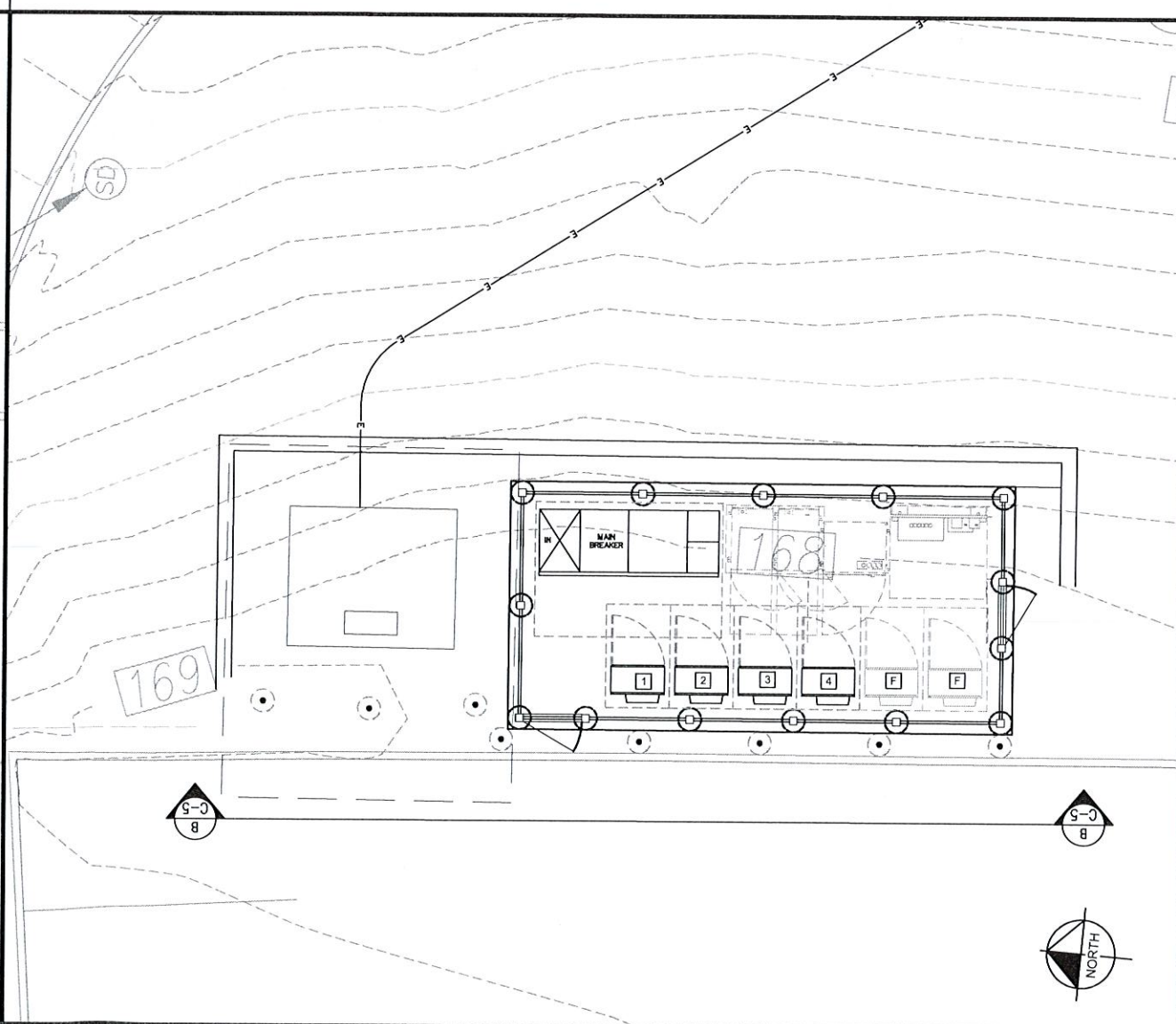
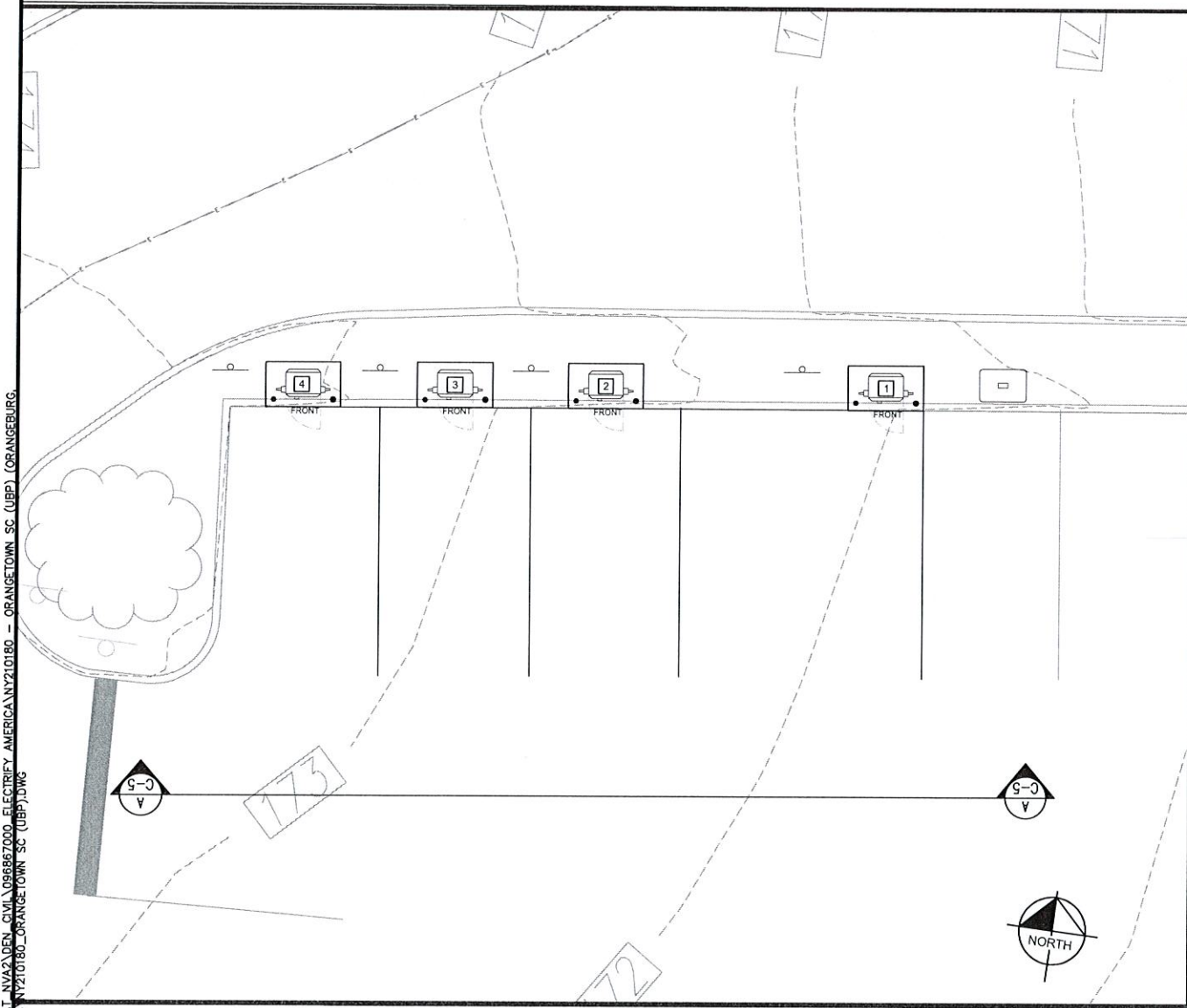
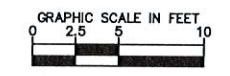
Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MCP
Date(s): 10/11/2019
10/30/2019 REV #1 CORO PLANS
11/13/2019 REV #2 CO100 PLANS
03/11/2020 REV #3 AHJ SUBMITTAL



A SITE ELEVATION - PARKING STALLS



B SITE ELEVATION - EQUIPMENT ENCLOSURE/TRANSFORMER

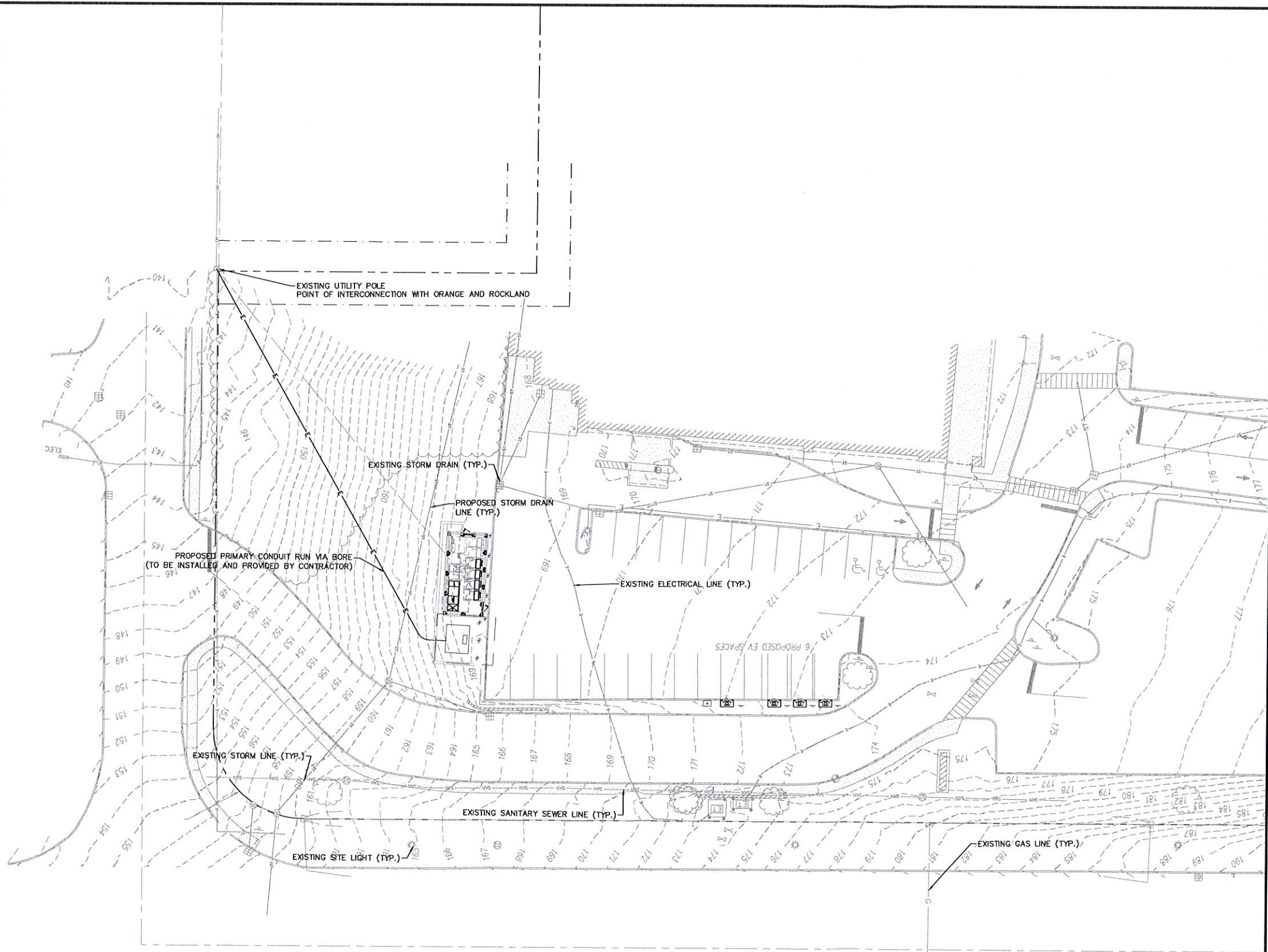


PLAN INSET FOR REFERENCE ONLY

C-5

\\KIMLEY-HORN\COM\AT\NVA\DEL_CIV\068687000_ELECTRIFY AMERICA\NY210180 - ORANGETOWN SC (UBP) (ORANGETOWN SC (UBP))\CAD\DWG\NY210180-ORANGETOWN SC (UBP).DWG

\\KIMLEY-HORN.COM\AT_NVA\A\DEN_CIVIL\06867000_ELECTRIFY_AMERICA\NY210180 - ORANGETOWN SC (UDP) - ORANGETOWN SHOPPING CENTER PLANS\SHEETS\0050 ELECTRICAL



A
E-1 UTILITY PLAN

PENDING UTILITY DESIGN

KEYNOTES

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



electrify
america

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Job Name:
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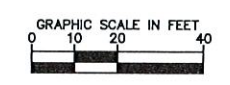
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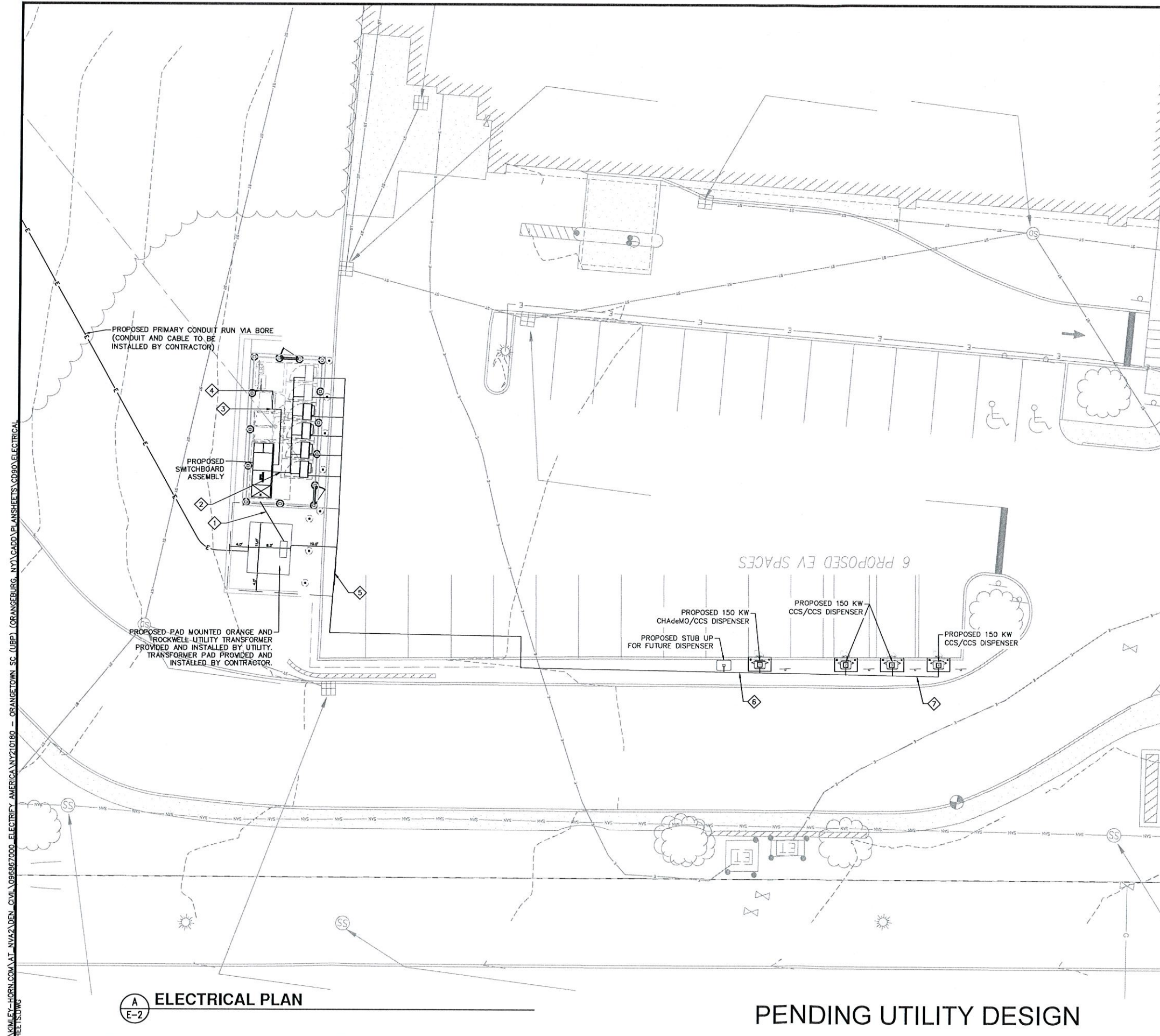
04/24/2020

SHEET DESCRIPTION:
UTILITY PLAN

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MDP
Date(s): 10/11/2019
10/30/2019 REV #1 CD00 PLANS
12/13/2019 REV #2 CD100 PLANS
03/17/2020 REV #3 CONDUIT SCH. UPDATE



E-1



PROPOSED DISPENSERS

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

POWER UNIT LENGTHS

POWER UNIT	LINEAR LENGTH SWBD TO POWER UNIT	** ESTIMATED LENGTH (FT)
1	8	24
2	10	26
3	14	30
4	18	34
TOTAL ESTIMATED LENGTH		114
TOTAL LENGTH OF WIRE		456

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

DC CHARGING POST LENGTHS

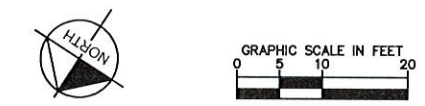
POWER UNITS	DISPENSER	LINEAR LENGTH (FT)	*** ESTIMATED LENGTH (FT)
1	1	135	157
2	2	182	204
3	3	194	216
4	4	202	224

NOTES

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

KEY NOTES

- ① SERVICE ENTRANCE CONDUITS, (6) 6" C.
- ② (6) 3" C.
- ③ (1) 3" C., (4) 1-1/4"
- ④ (1) 3" C., (1) 1-1/4"
- ⑤ (6) 1-1/2" C., (6) 3/4" C., (12) 2-1/2" C
- ⑥ (4) 1-1/2" C., (4) 3/4" C., (8) 2-1/2" C.
- ⑦ (1) 1-1/2" C., (1) 3/4" C., (2) 2-1/2" C.



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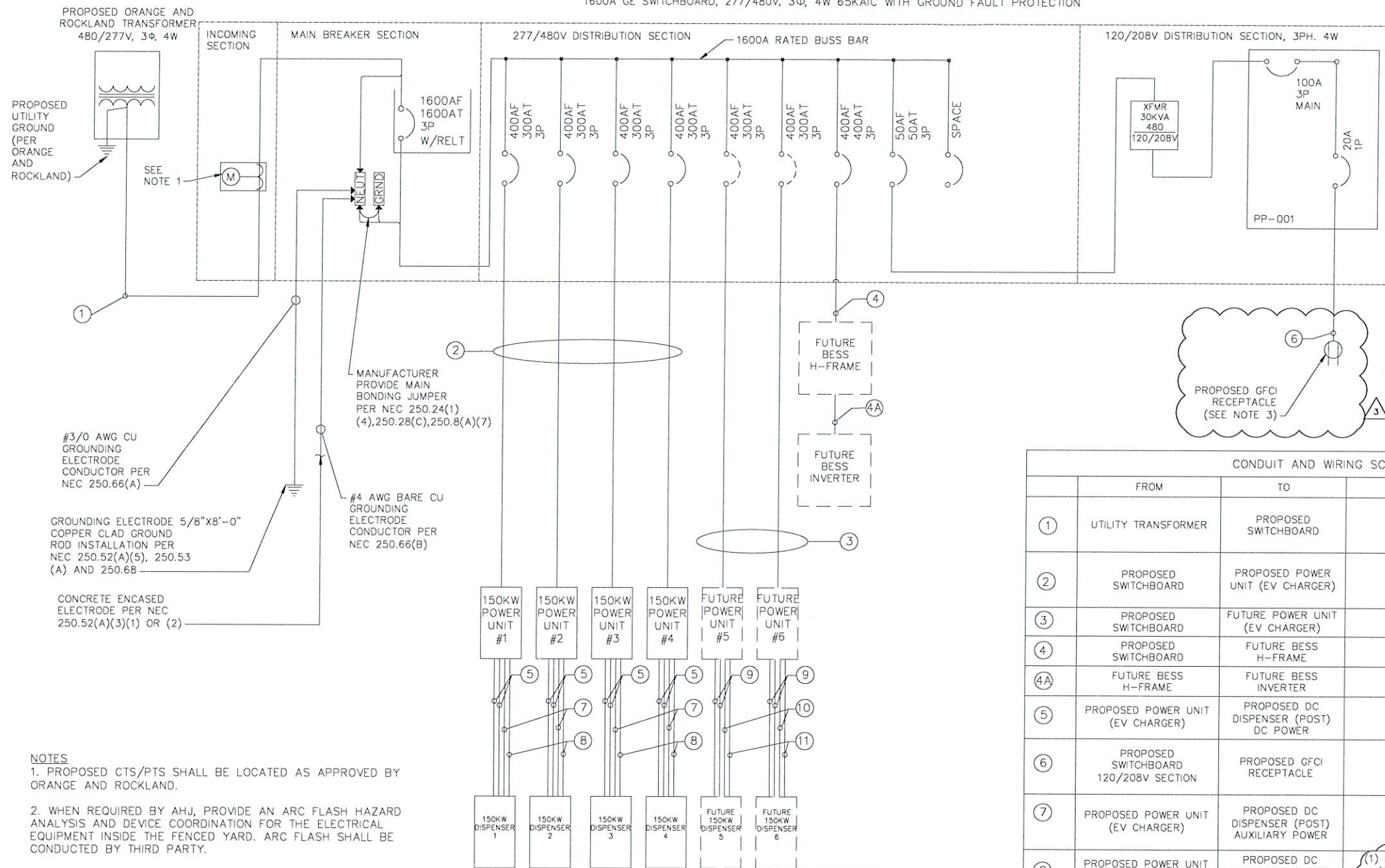
SHEET DESCRIPTION:
ELECTRICAL PLAN

Project #: 210180
 File: CONSTRUCTION DOCUMENTS
 Drawn by: MCP
 Date(s): 10/11/2019
 10/30/2019 REV #1 CD90 PLANS
 12/13/2019 REV #2 CD100 PLANS
 03/17/2020 REV #3 CONDUIT SCHED. UPDATE

\\KIMLEY-HORN.COM\AT_NVA\ADEN_CIVIL_086867000_ELECTRIFY_AMERICA\NY\210180 - ORANGETOWN SHOPPING CENTER - ORANGETOWN, NY\CD90 PLANS\CD90 ELECTRICAL SHEETS

KIMLEY-HORN.COM | AT: NVA2 | DEN: CIVL 098687000 | ELECTRIFY AMERICA NY210180 - ORANGETOWN, SC (UBP) | ORANGETOWN, NY | CAD | PLANSHEETS | 0900 ELECTRICAL

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



- NOTES**
- PROPOSED CTS/PTS SHALL BE LOCATED AS APPROVED BY ORANGE AND ROCKLAND.
 - WHEN REQUIRED BY AHJ, PROVIDE AN ARC FLASH HAZARD ANALYSIS AND DEVICE COORDINATION FOR THE ELECTRICAL EQUIPMENT INSIDE THE FENCED YARD. ARC FLASH SHALL BE CONDUCTED BY THIRD PARTY.
 - PROVIDE WEATHERPROOF "WHILE IN USE" COVER

LOAD SUMMARY			
	KVA	QTY	TOTAL KVA
150KW POWER UNIT	150 KVA	4	600
FUTURE 150KW	150 KVA	2	300
25% CONTINUOUS DUTY			225
30 KVA TRANSFORMER			30
TOTAL			1,155
AMPS (480V, 3-PH)			1,390A

CONDUIT AND WIRING SCHEDULE			
	FROM	TO	CONFIGURATION
①	UTILITY TRANSFORMER	PROPOSED SWITCHBOARD	(3) 600 MCM AL + (1) 600 MCM AL NEUT + IN EACH OF (5) 4" CONDUIT + (1) SPARE 4" CONDUIT
②	PROPOSED SWITCHBOARD	PROPOSED POWER UNIT (EV CHARGER)	(4) 300 MCM CU + (1) #2 AWG CU EGC IN (1) 3" CONDUIT
③	PROPOSED SWITCHBOARD	FUTURE POWER UNIT (EV CHARGER)	(1) 3" CONDUIT
④	PROPOSED SWITCHBOARD	FUTURE BESS H-FRAME	(1) 3" CONDUITS + (4) 1-1/4" CONDUITS
④A	FUTURE BESS H-FRAME	FUTURE BESS INVERTER	(1) 3" CONDUITS + (1) 1-1/4" CONDUIT
⑤	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) DC POWER	(2) 350 MCM AL 1KV + (1) #2 AWG CU EGC IN (1) 2-1/2" CONDUITS
⑥	PROPOSED SWITCHBOARD 120/208V SECTION	PROPOSED GFCI RECEPTACLE	(1) #12 AWG CU + (1) #12 AWG CU NEUT + (1) #12 AWG CU EGC IN (1) 3/4" CONDUIT
⑦	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) AUXILIARY POWER	(2) #12 AWG CU + (1) #12 AWG CU EGC IN (1) 3/4" CONDUIT
⑧	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) COMMUNICATION	(1) BUFFERED 1/0 MM FIBER (ST/ST CONN) + (1) 2 CONDUCTOR #16 AWG(TW/SH PAIR) IN (1) 1-1/2" CONDUIT
⑨	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) DC POWER	(1) 2-1/2" CONDUITS
⑩	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) AUXILIARY POWER	(1) 3/4" CONDUIT
⑪	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) COMMUNICATION	(1) 1-1/2" CONDUIT

A SINGLE LINE DIAGRAM

E-3

PENDING UTILITY DESIGN



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



1 N LEXINGTON AVE
SUITE 1575
WHITE PLAINS, NY 10601
914-368-9200

Job Name:
ORANGETOWN SHOPPING CENTER

45 ORANGETOWN ROAD
ORANGETOWN, NY 10962

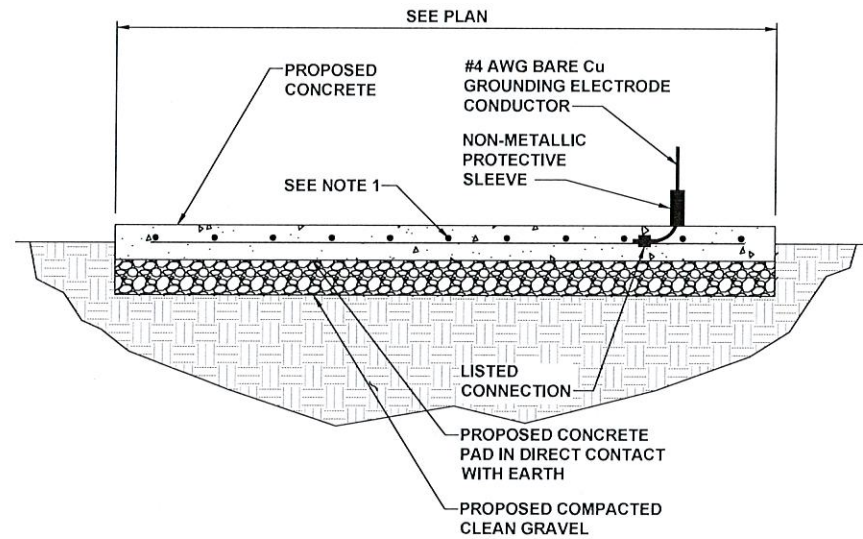


SHEET DESCRIPTION:
SINGLE LINE DIAGRAM

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MJP
Date(s): 10/11/2018
10/30/2019 REV #1 CDSO PLANS
12/13/2019 REV #2 CDSO PLANS
03/17/2020 REV #3 CONDUIT SCH. UPDATE

E-3

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



A CONCRETE ENCASED ELECTRODE DETAIL
E-4 N.T.S.

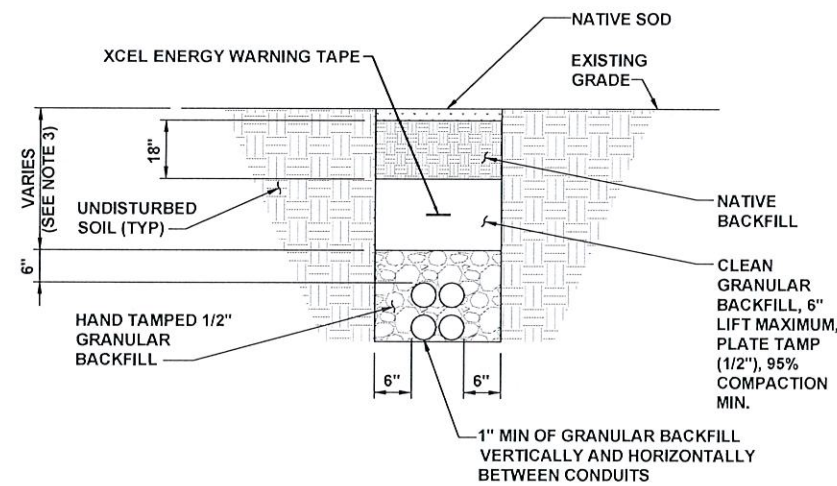
SAW CUT	ASPHALT SURFACE	
CADWELD CONNECTIONS OR ENGINEER APPROVED EQUAL	HORIZONTAL SPLICE SPLICE OF HORIZONTAL CABLES TYPE SS	PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT
BURNDY CONNECTIONS OR ENGINEER APPROVED EQUAL	HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS	PARALLEL HORIZONTAL CONDUCTORS PARALLEL DEAD END TAP OR HORIZONTAL THRU CONDUCTOR TYPE PC
BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2	VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS	VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS
COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2	HORIZONTAL TEE TEE OF HORIZONTAL RUN AND TAP CABLES TYPE TA	THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT

B CADWELD CONNECTION DETAIL
E-4 N.T.S.

NOTES:

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

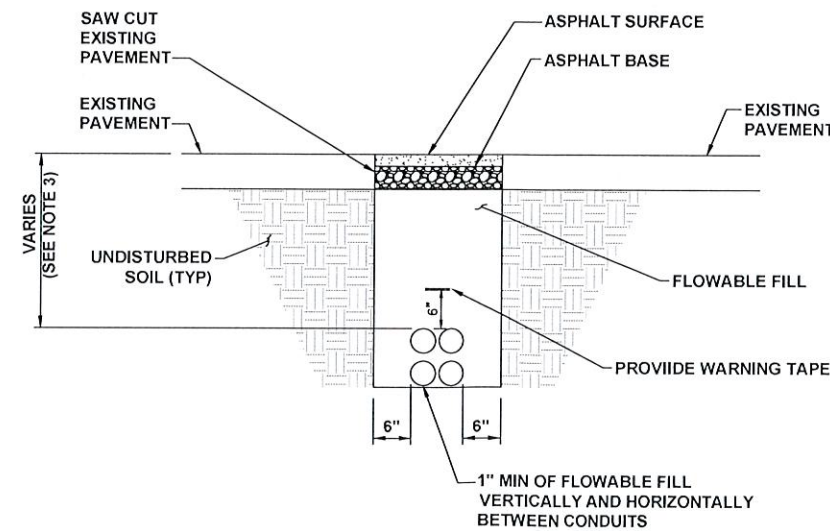
C GROUNDING NOTES
E-4 N.T.S.



NOTES

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

D TYPICAL NON-UTILITY CONDUIT UNDER SOIL TRENCH
E-4 N.T.S.



NOTES

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

E TYPICAL NON-UTILITY

F DETAIL NOT USED
E-4



ORANGETOWN SHOPPING CENTER
45 ORANGETOWN ROAD
ORANGETOWN, NY 10962

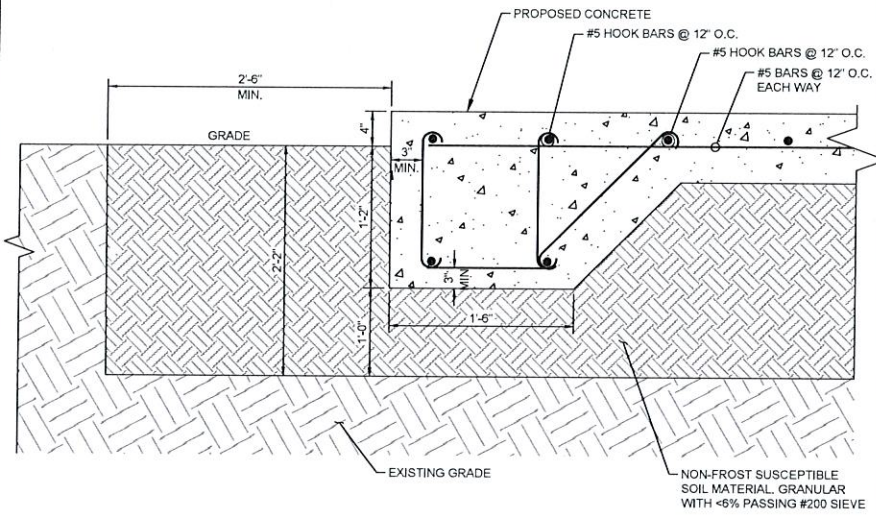


04/24/2020

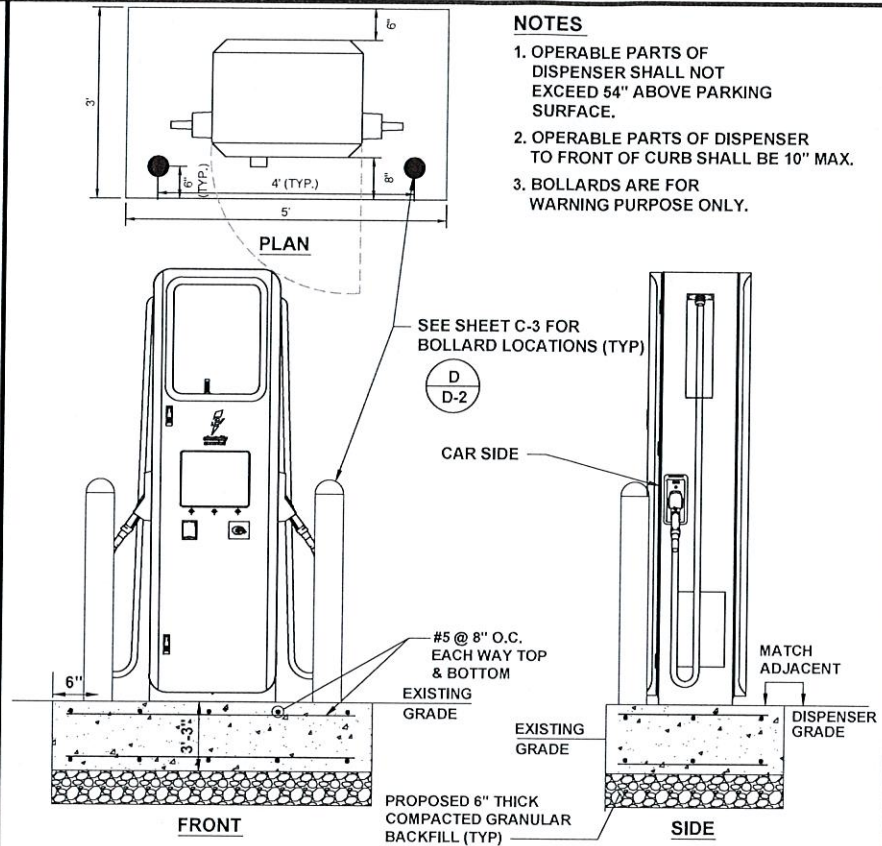
SHEET DESCRIPTION:
ELECTRICAL DETAILS

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MJP
Date(s): 10/11/2019
10/30/2019 REV #1 CD00 PLANS
12/13/2019 REV #2 CD100 PLANS
03/17/2020 REV #3 CONDUIT SCH. UPDATE





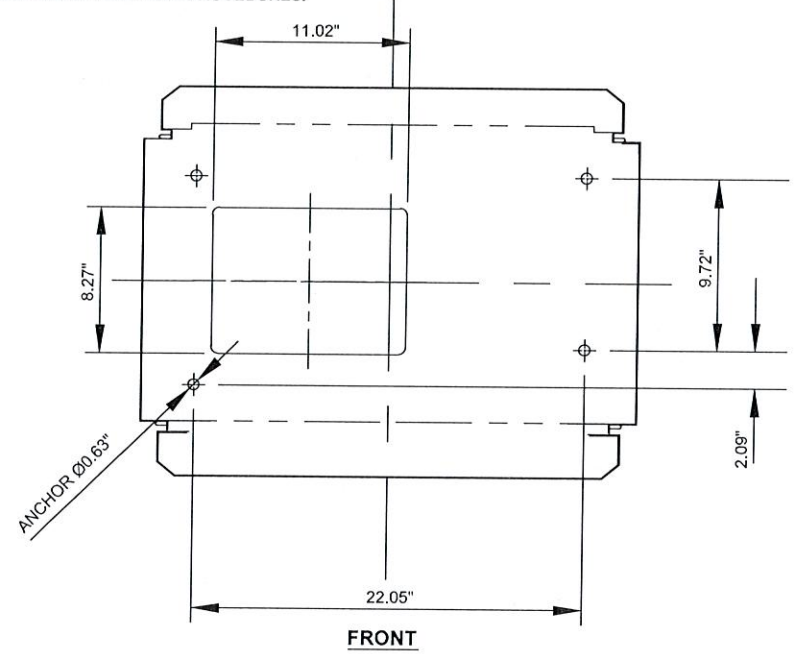
A CONCRETE PAD THICKENED EDGE DETAIL
D-1 SCALE: N.T.S.



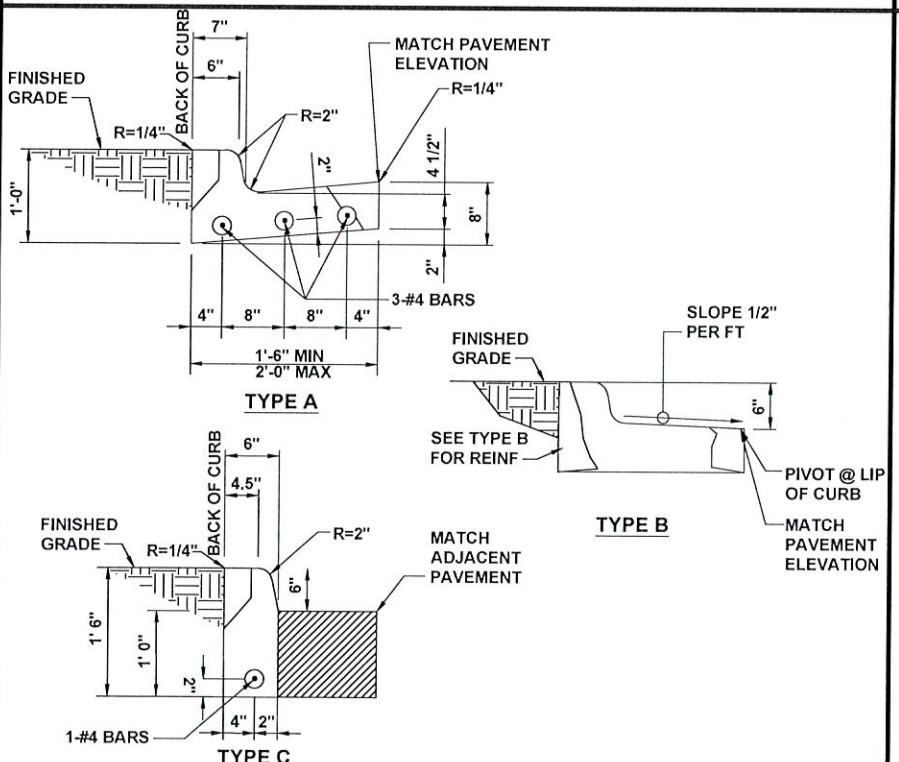
- NOTES**
- OPERABLE PARTS OF DISPENSER SHALL NOT EXCEED 64" ABOVE PARKING SURFACE.
 - OPERABLE PARTS OF DISPENSER TO FRONT OF CURB SHALL BE 10" MAX.
 - BOLLARDS ARE FOR WARNING PURPOSE ONLY.

B SIGNET DISPENSER FOOTING DETAIL
D-1 SCALE: N.T.S.

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

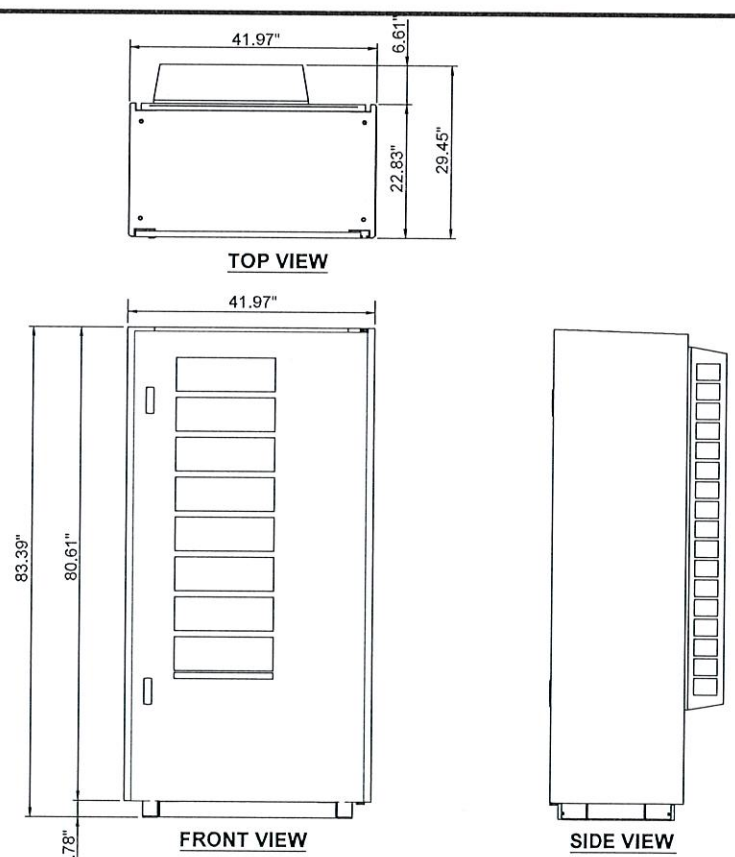


C SIGNET DISPENSER ANCHORAGE AND CONDUIT ENTRY DETAIL
D-1 SCALE: N.T.S.



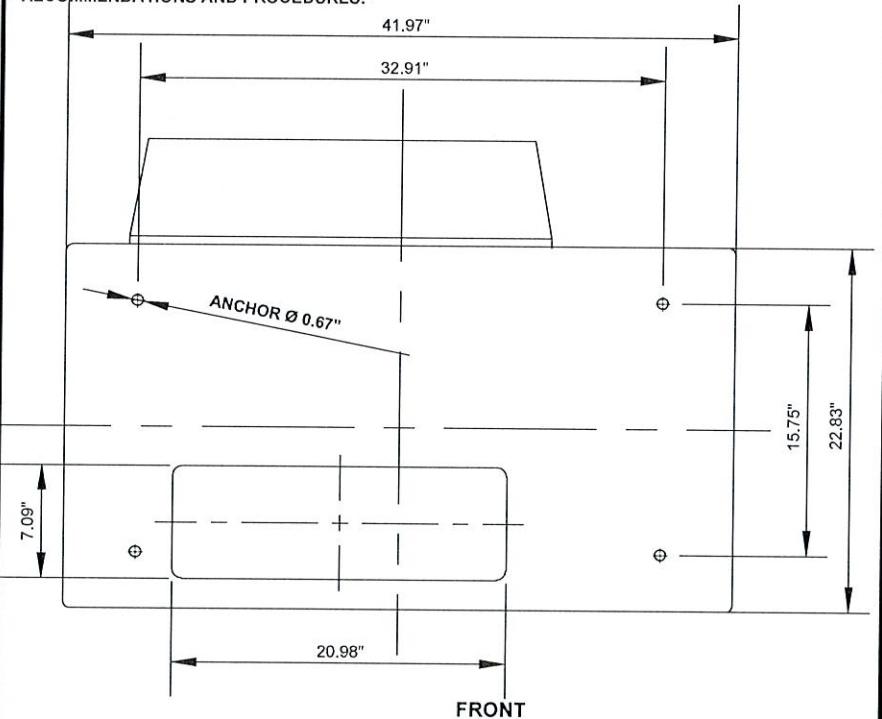
- NOTE**
- 1/2" PRE MOLDED EXPANSION JOINTS SHALL BE PLACED AT POINTS OF CURVATURE, CURB RETURNS, CURB INLETS, AND AT 250' CENTERS. CONTRACTION JOINTS SHALL BE 2" DEEP, 3/16" WIDE, AND PLACED AT 15' INTERVALS EQUALLY SPACED BETWEEN EXPANSION JOINTS.

D CONCRETE CURB DETAIL
D-1 SCALE: N.T.S.



E SIGNET POWER UNIT DETAIL
D-1 SCALE: N.T.S.

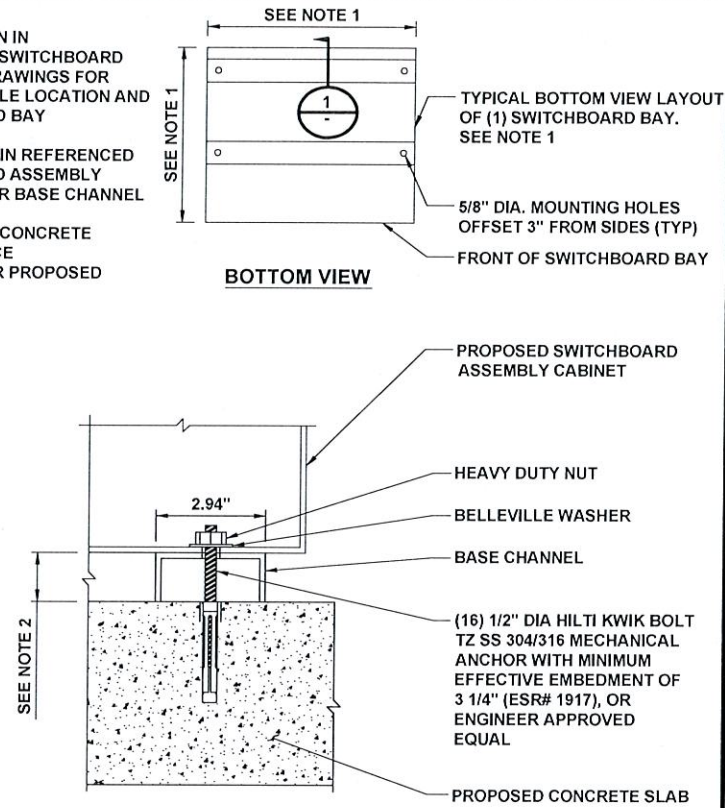
- NOTE**
- MINIMUM ANCHOR EDGE DISTANCE IS 6".
 - THE DETAIL DEPICTS TYPICAL MANUFACTURER EQUIPMENT ANCHORING AND DIMENSIONS, REFER TO MANUFACTURER INSTALLATION AND USER'S MANUAL FOR ANCHORING AND INSTALLATION RECOMMENDATIONS AND PROCEDURES.



F SIGNET POWER UNIT ANCHORAGE AND CONDUIT ENTRY DETAIL
D-1 SCALE: N.T.S.

NOTES

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

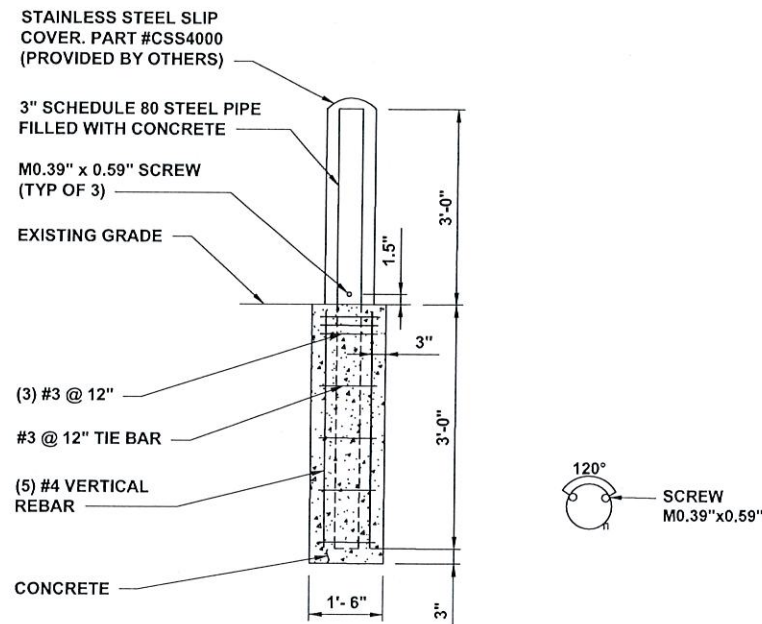


SECTION 1

A SWITCHBOARD MOUNTING DETAIL
D-2 SCALE: N.T.S.

NOTES

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

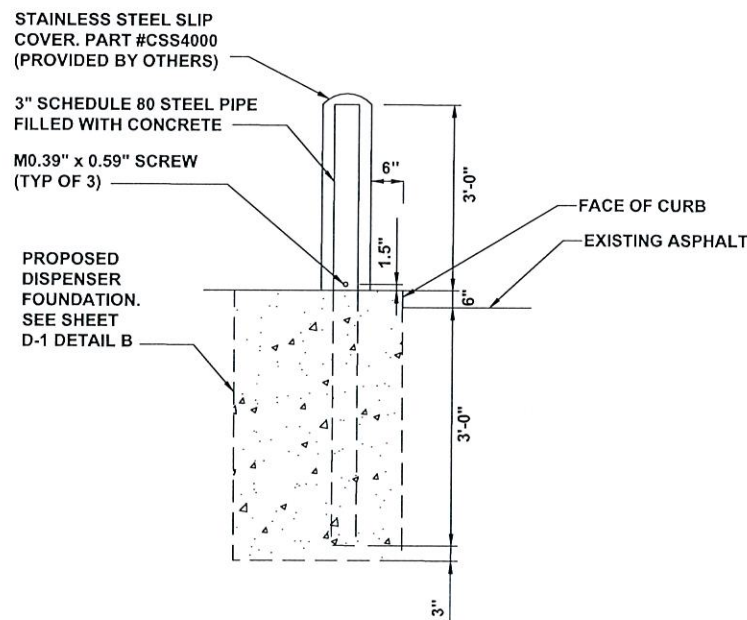


B WARNING BOLLARD DETAIL
D-2 SCALE: N.T.S.

C NOT USED
D-2 SCALE:

NOTES

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

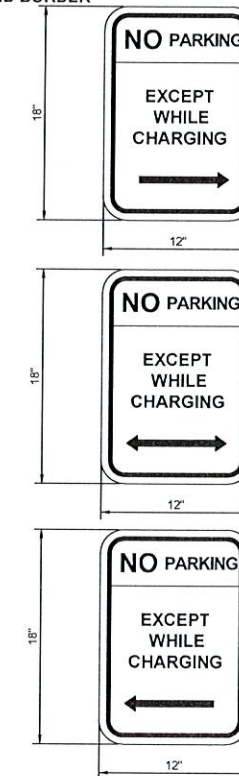


D DISPENSER WARNING BOLLARD DETAIL
D-2 SCALE: N.T.S.

E NOT USED
D-2 SCALE:

NOTES

- BOTTOM OF LOWEST SIGN SHALL BE INSTALLED 66" ABOVE GRADE.
- TO CONFORM WITH MUTCD SIGNS R-113, R-111-L AND R-111-R.
- SIGNS ARE TO HAVE A WHITE RETROREFLECTIVE BACKGROUND WITH RED RETROREFLECTIVE LETTERS, ARROW, AND BORDER



F NO PARKING SIGN
D-2 SCALE: N.T.S.



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



1 N LEXINGTON AVE
SUITE 1575
WHITE PLAINS, NY 10601
914-366-9200

Job Name:

ORANGETOWN SHOPPING CENTER

45 ORANGETOWN ROAD
ORANGEBURG, NY 10962



04/24/2020

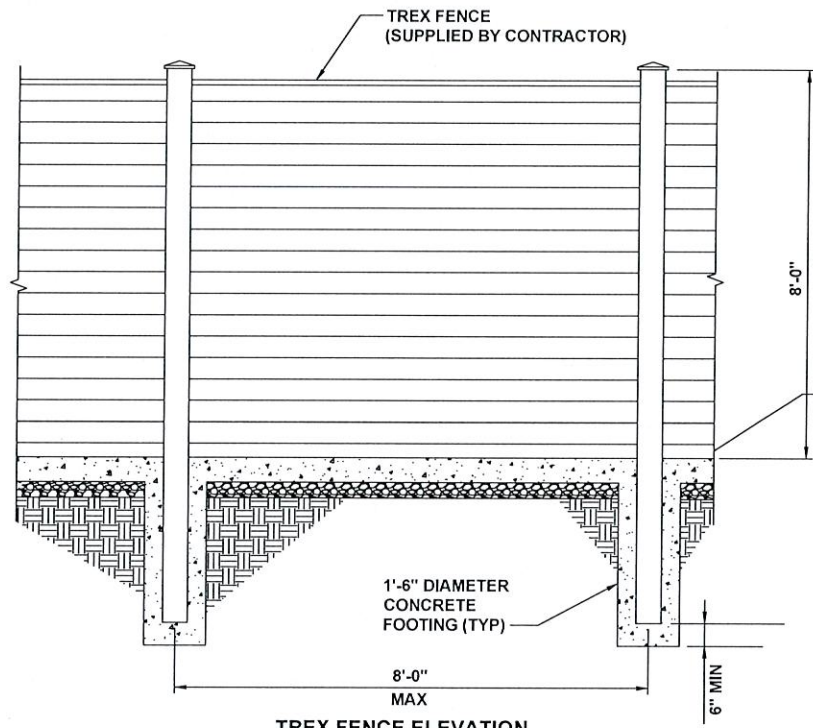
SHEET DESCRIPTION:
DETAILS

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MSP
Date(s): 10/11/2019
10/30/2019 REV #1 CD00 PLANS
12/13/2019 REV #2 CD10 PLANS
03/11/2020 REV #3 ANU SUBMITTAL

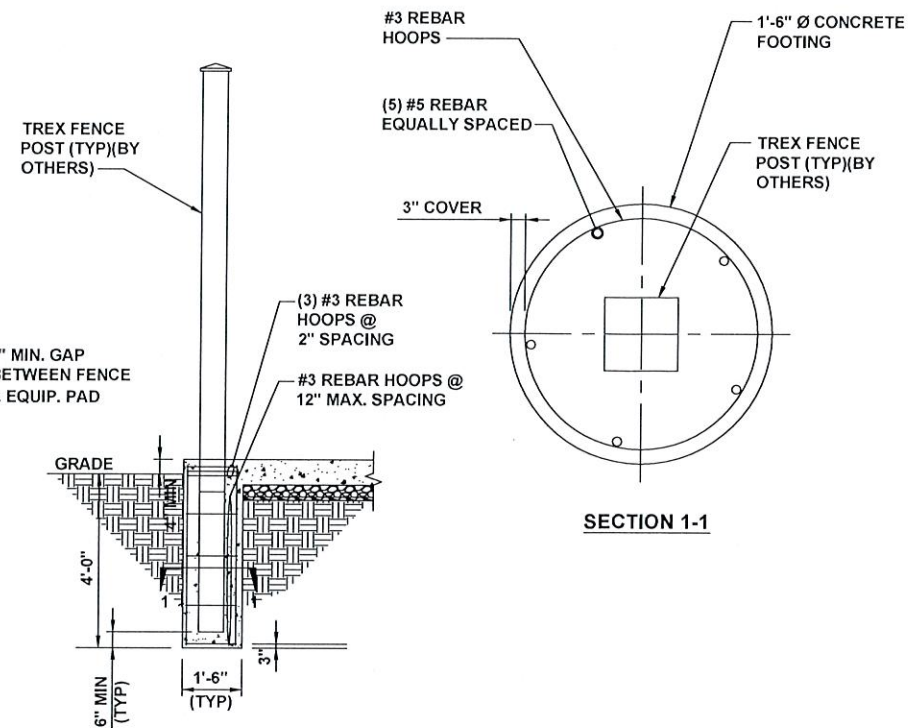
D-2

NOTES:

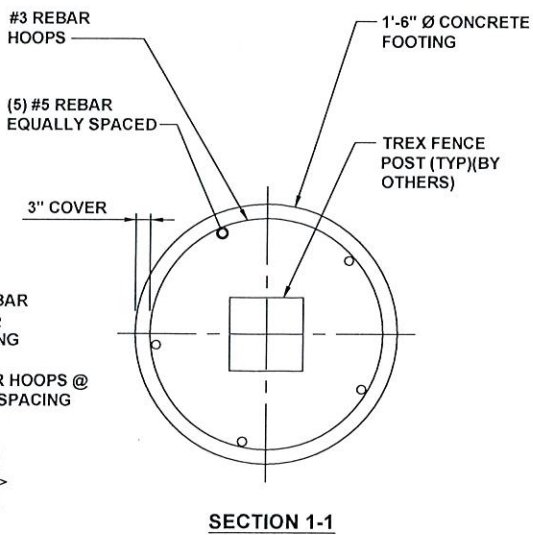
1. COLOR: WINCHESTER GREY
2. PICK TREX COMPOSITE FENCE THAT MEETS LOCAL JURISDICTION REQUIREMENTS FOR WIND SPEED AND SEISMIC



TREX FENCE ELEVATION

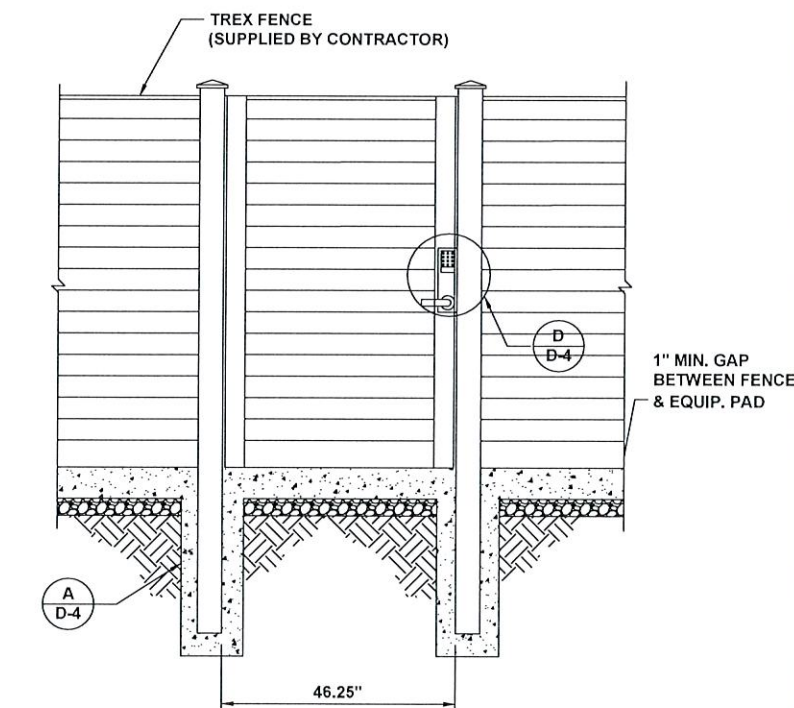


TYPICAL TREX FENCE ELEVATION

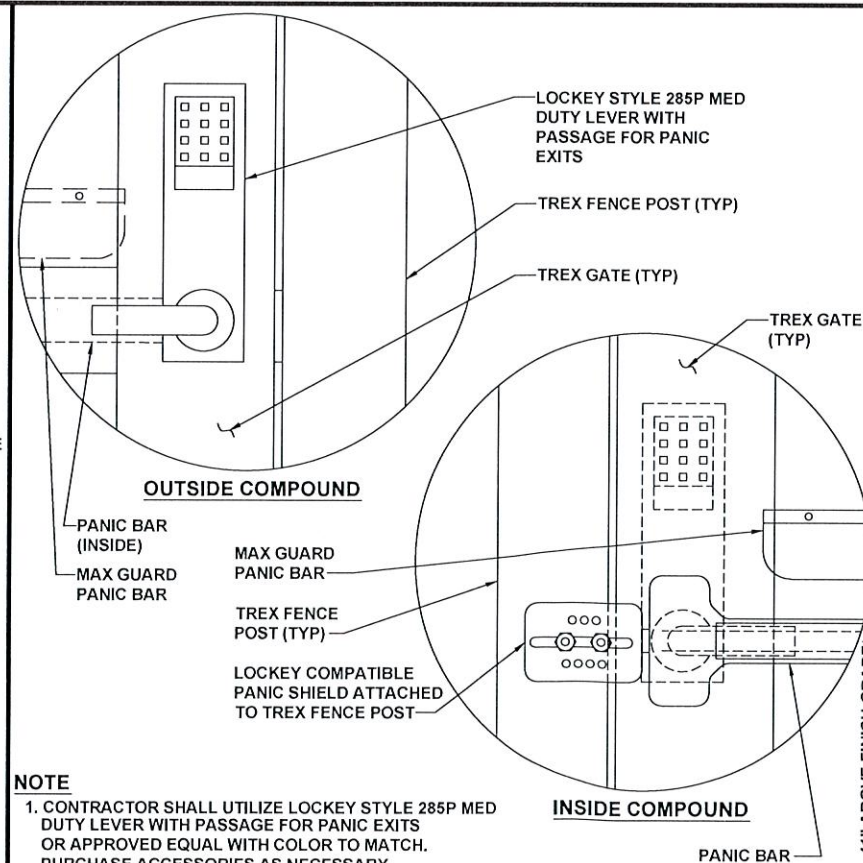


SECTION 1-1

A
D-4 SCALE: N.T.S.



C
D-4 SCALE: N.T.S.



NOTE

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

D
D-4 SCALE: N.T.S.



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2003 EDMUND HALLEY DRIVE
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RESTON, VA 20191



1 N LEXINGTON AVE
SUITE 1575
WHITE PLAINS, NY 10601
914-368-9200

Job Name:

ORANGETOWN SHOPPING CENTER

45 ORANGETOWN ROAD
ORANGEBURG, NY 10962



04/24/2020

SHEET DESCRIPTION:
DETAILS

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MDP
Date(s): 10/11/2019
10/30/2019 REV #1 CD00 PLANS
12/13/2019 REV #2 CD100 PLANS
03/11/2020 REV #3 AHJ SUBMITTAL





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



1 N LEXINGTON AVE
SUITE 1575
WHITE PLAINS, NY 10601
914-368-9200

Job Name:
ORANGETOWN SHOPPING CENTER

45 ORANGETOWN ROAD
ORANGETOWN, NY 10962



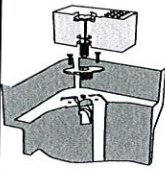
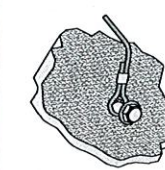
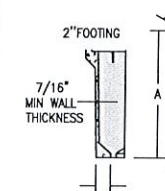
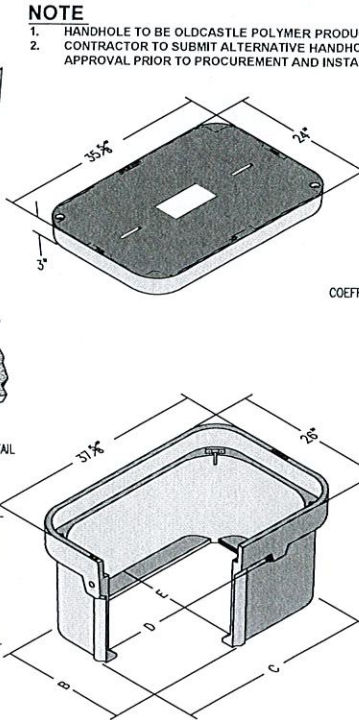
04/24/2020

SHEET DESCRIPTION:
DETAILS

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MEP
Date(s): 10/11/2019
10/30/2019 REV #1: CD00 PLANS
12/13/2019 REV #2: CD100 PLANS
03/11/2020 REV #3: AHJ SUBMITTAL

D-5

NOTE
1. HANDHOLE TO BE OLDCASTLE POLYMER PRODUCT NUMBER 2436 WITH A DEPTH OF 18".
2. CONTRACTOR TO SUBMIT ALTERNATIVE HANDHOLE DETAIL TO ELECTRIFY AMERICA FOR APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION.

COVER:
STYLE: FLUSH SOILD
MATERIAL: POLYMER CONCRETE
MODEL: 24"x36"
WEIGHT: TIER 15: 150 LBS
TIER 22: 204 LBS
STD.FASTENERS: 1/2"-13 STAINLESS STEEL HEX HEAD BOLT, WASHER AND FLOATING NUT
OPTIONS: LOGOS AND SPECIAL MARKINGS
SURFACE: SLIP RESISTANT & MARKED*
COEFFICIENT OF FRICTION: >0.6ASTM 1028
PERFORMANCE: ANSI/SCTE-77 TIER 15, WUC 3.6
ASTM C857A-12
ANSI/SCTE-77 TIER22, WUC3.6, ASTM C857A-16

BODY:
MATERIAL: POLYMER CONCRETE
MODEL: 24"x36"
WEIGHT: 18" DEPTH: 142LBS

WALL TYPE:
STRAIGHT
PERFORMANCE: ANSI/SCTE-77 TIER22, WUC3.6, ASTM C857A-16

FOR USE IN NON-VEHICULAR TRAFFIC

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

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

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

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

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

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

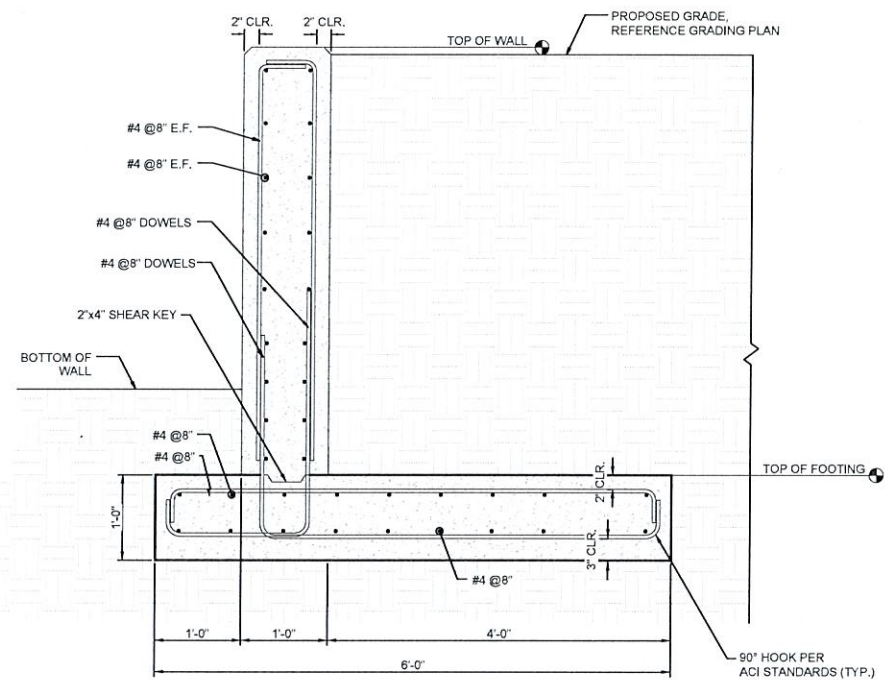
C NOT USED
D-5 SCALE: N.T.S.

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

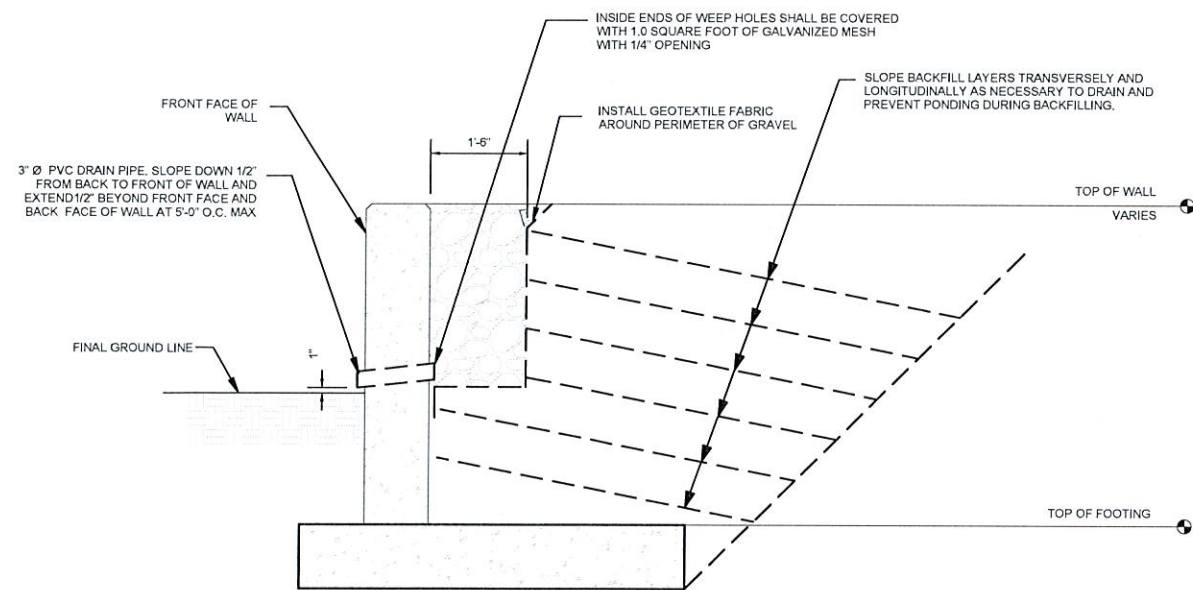
E NOT USED
D-5 SCALE: N.T.S.

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

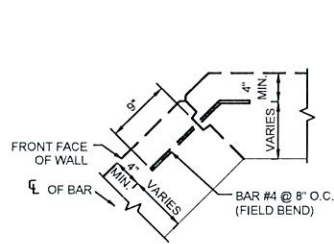
- NOTE:
- SEE GN-1, GN-2, AND GN-3 FOR SPECIFICATIONS AND NOTES
 - SEE SHEET C-3 FOR GRADING
 - SEE INTERTEK PSI GEOTECHNICAL ENGINEERING SERVICES REPORT FOR SITE PREPARATION, FILL MATERIAL, AND PLACEMENT NOTES.



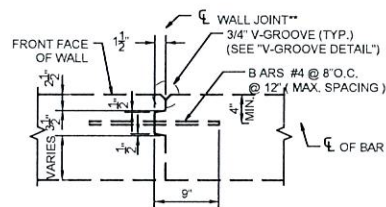
1 RETAINING WALL REINFORCEMENT
S-2 SCALE: N.T.S.



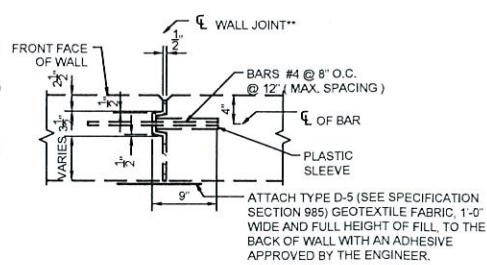
2 BACKFILL DETAIL
S-2 SCALE: N.T.S.



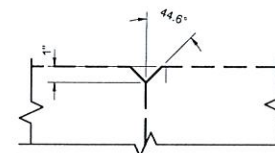
TYPICAL CORNER JOINT DETAIL



WALL JOINT DETAIL



EXPANSION JOINT DETAIL



V-GROOVE DETAIL

- * KEY TO STOP AT TOP OF FOOTING AND 6" FROM TOP OF WALL. JOINT ACROSS FOOTING AND TOP OF WALL TO BE A STRAIGHT LINE.
 - ** STAY-IN-PLACE PLASTIC PREFORMED BOND BEAKERS ARE PERMITTED TO FORM JOINTS.
- NOTES:
- WALL CONSTRUCTION JOINTS SHALL BE INSTALLED AT 25'-0" O.C. MAX.

3 RETAINING WALL JOINT DETAILS
S-2 SCALE: N.T.S.



electrify
america

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

Kimley»Horn
of New York, P.C.

1 N LEXINGTON AVE
SUITE 1575
WHITE PLAINS, NY 10601
914-368-9200

Job Name:
ORANGETOWN
SHOPPING
CENTER

45 ORANGETOWN ROAD
ORANGETOWN, NY 10962



SHEET DESCRIPTION:
RETAINING WALL DETAILS


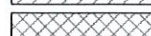
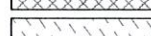
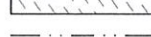

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MDP
Date(s): 10/11/2019
10/20/2019 REV #1 CD00 PLANS
12/13/2019 REV #2 CD100 PLANS
03/11/2020 REV #3 A40 SUBMITTAL

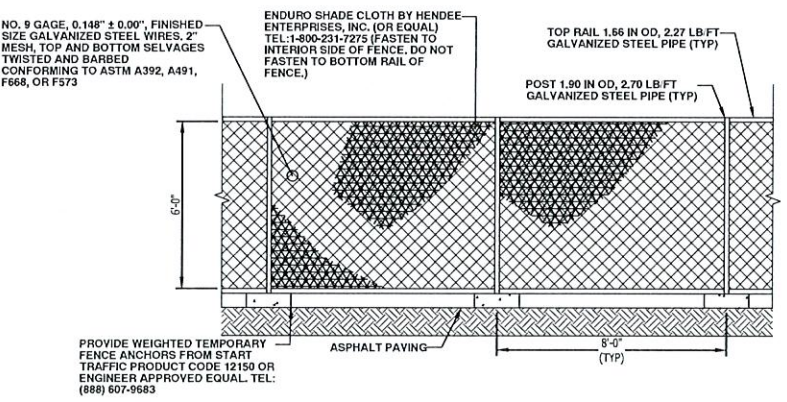
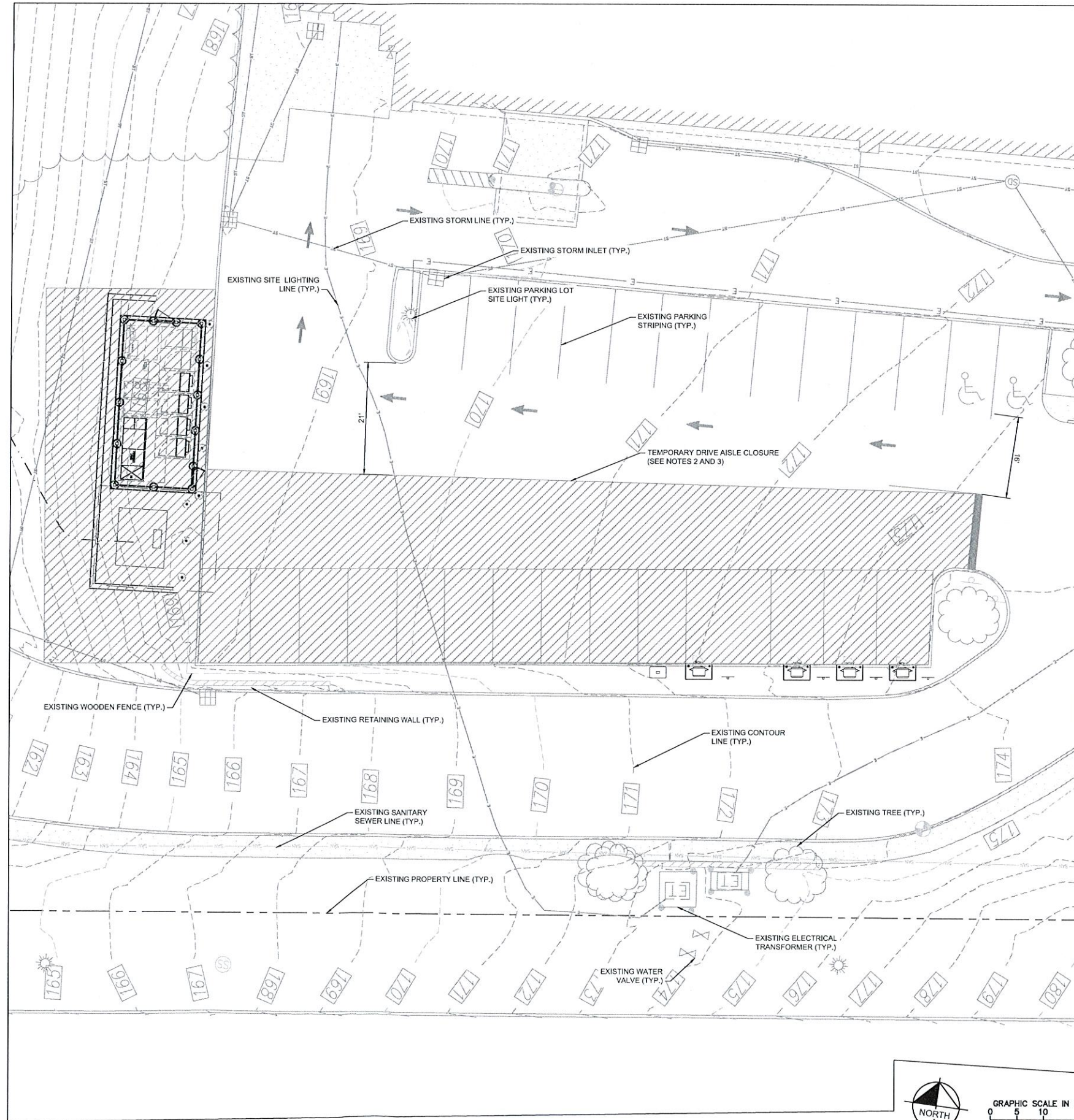
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NOTES

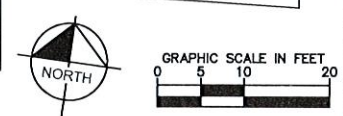
1. WORK / STAGING AREA TO BE CONFIRMED AT PRE-CONSTRUCTION SITE MEETING AND SURROUNDED BY TEMPORARY FENCE DURING CONSTRUCTION.
2. POSSIBLE LOCATION FOR TEMPORARY DRIVE AISLE CLOSURE DURING CONSTRUCTION.
3. CONTRACTOR TO PROVIDE TEMPORARY SIGNS TO DIRECT TRAFFIC FLOW.
4. SHORT TERM FENCING TO BE PROVIDED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

LEGEND

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



A STAGING PLAN




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

Kimley»Horn
of New York, P.C.

1 N LEXINGTON AVE
SUITE 1575
WHITE PLAINS, NY 10601
914-368-8200

Job Name:
ORANGETOWN SHOPPING CENTER
45 ORANGETOWN ROAD
ORANGETOWN, NY 10962



SHEET DESCRIPTION:
STAGING PLAN

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MDP
Date(s): 10/11/2019
10/30/2019 REV #1: CD90 PLANS
12/13/2019 REV #2: CD100 PLANS
03/11/2020 REV #3: AHI SUBMITTAL

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STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE: WIDE FLANGE SHAPE: A992, 50KSI
ANGLE AND CHANNEL SHAPE: ASTM A36, 36 KSI PLATE: ASTM A36, 36KSI
PIPE: ASTM A53 GRADE B, 35 KSI
HSS: ASTM A500 GRADE B, 46KSI
- HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A325: ONE HIGH-STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.
- WELDING ELECTRODES SHALL COMPLY WITH AWS D1.1 USING A5.1 OR A5.5 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS SELECTED. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.
- UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.
- FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
- ALL EXPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.
- PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11

ANCHORAGE INSTALLATION NOTES

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

REINFORCED CONCRETE NOTES

- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED. CONTINUOUS INSPECTION IS NOT REQUIRED. SLUMP: 4" MIN / 6" MAX.
I. AIR ENTRAINMENT: 4 1/2% - 7% BY VOLUME
- REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60, MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
- REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI 318 FOR MINIMUM CLEARANCES AND CONCRETE COVER.
- ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
- MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
- DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.7.
- EXCEPT AS DETAILED OR AUTHORIZED, MAKE BARS CONTINUOUS AROUND CORNERS WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.
- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" , ACI 318.
- PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.
- EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE CONCRETE PAD ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PRE-FABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

GROUNDING NOTES

- COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- ALL BELOW GRADE BONDS TO BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION-TYPE CONNECTIONS LISTED FOR USE IN THE APPLICATION WHICH THEY ARE INSTALLED.
- 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.
- 2014 NEC 250.121 EXCEPTION: A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN COMPLIANCE WITH 250.6(A) AND THE APPLICABLE REQUIREMENTS FOR BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR IN PARTS II, III, AND VI OF THIS ARTICLE SHALL BE PERMITTED TO SERVE AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR.

BULK TABLE - CS DISTRICT

REQUIREMENTS	REQUIRED	EXISTING	PROPOSED
MAX. FLOOR AREA RATIO	1.00	N/A	N/A
MIN. LOT AREA	2,500SF	10.98A	10.98A
MIN. LOT WIDTH	25'	440'	440'
MIN. STREET FRONTAGE	25'	350'	350'
FRONT YARD	45'	45'	N/A
SIDE YARD	0'	13'	N/A
TOTAL SIDE YARD	0'	25'	N/A
REAR YARD	25'	25'	N/A
MAX. BUILDING HEIGHT	1.33' FROM PROP. LINE FOR BLDG <22'	N/A	N/A



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Job Name:

ORANGETOWN SHOPPING CENTER

45 ORANGETOWN ROAD
ORANGETOWN, NY 10962



SHEET DESCRIPTION:
GENERAL NOTES

Project #: 210180
File: CONSTRUCTION DOCUMENTS
Drawn by: MCP
Date(s): 10/11/2018
10/30/2018 REV #1: CD00 PLANS
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03/11/2020 REV #3: AHJ SUBMITTAL

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