

volta

STAPLES PLAZA

3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY 10598
TOWN OF YORKTOWN
SBL: 36.06-2-76

volta

155 DE HARO STREET
SAN FRANCISCO, CA 94103

Kimley»Horn

New York

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REV	DATE	DESCRIPTION	BY
1	04/01/2022	CD100s	TAS

ISSUE DATE
04/01/2022

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

STAPLES PLAZA
3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598

SHEET TITLE
COVER SHEET

SHEET NUMBER
C0-00

ITEM	TASK	YES	NO	N/A
1	CONTACT 811 UTILITY PRIOR TO EXCAVATION WORK.			
2	NOTIFY VOLTA & KIMLEY-HORN OF ANY DISCREPANCIES W/ PLANS OR POTENTIAL CONFLICTS.			
3	VERIFY ALL FIELD CONDITIONS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH THESE PLANS.			
4	INSTALL WORK AREA PROTECTION MEASURES.			
5	FIELD LOCATE EXISTING UTILITIES AND CROSSINGS & VERIFY NO CONFLICTS W/PROPOSED INFRASTRUCTURE.			
6	FIELD VERIFY ALL STALL DIMENSIONS AND EQUIPMENT LOCATIONS.			
7	CONFIRM ALL ADA AND LOCAL REQUIREMENTS ARE MET.			
8	ESTABLISH TEMPORARY CONSTRUCTION ACCESS(ES).			
9	IMPLEMENT AND MAINTAIN EPSC CONTROL MEASURES PER LOCAL REQUIREMENTS.			
10	LOCATE VERTICAL AND HORIZONTAL UTILITIES PRIOR TO BORING.			
11	PROVIDE PROPOSED LIMITS OF ASPHALT OVERLAY SKETCH TO KIMLEY-HORN & VOLTA (IF NEEDED).			
12	SEED & STABILIZE ALL DISTURBED AREAS AFTER FINAL GRADING.			

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

VOLTA PROPOSES:

- 2 ELECTRIC VEHICLE (EV) CHARGING STATION FIXTURES TO BE LOCATED IN EXISTING CURBED ISLAND AREAS THAT ARE ADJACENT TO ON-SITE PARKING SPACES AND PART OF AN EXISTING SHOPPING CENTER AT THE PROPERTY. THE EV FIXTURES ARE CUSTOMARY ACCESSORY AND INCIDENTAL TO THE EXISTING COMMERCIAL USE AND SOLELY FOR THE BENEFIT OF CUSTOMERS VISITING THE STORE. THE FIXTURES ARE LOCATED TO PROVIDE PRIORITY PARKING FOR PATRONS WITH EVS AND DISPLAY VISIBILITY ALONG THE INTERIOR CIRCULATION AISLE FOR SHOPPERS. THERE ARE NO PROPOSED CHANGES TO THE PARKING SPACES OR ANY OF THE EXISTING TRAFFIC CIRCULATION AT THE PROPERTY.

APPLICANT:
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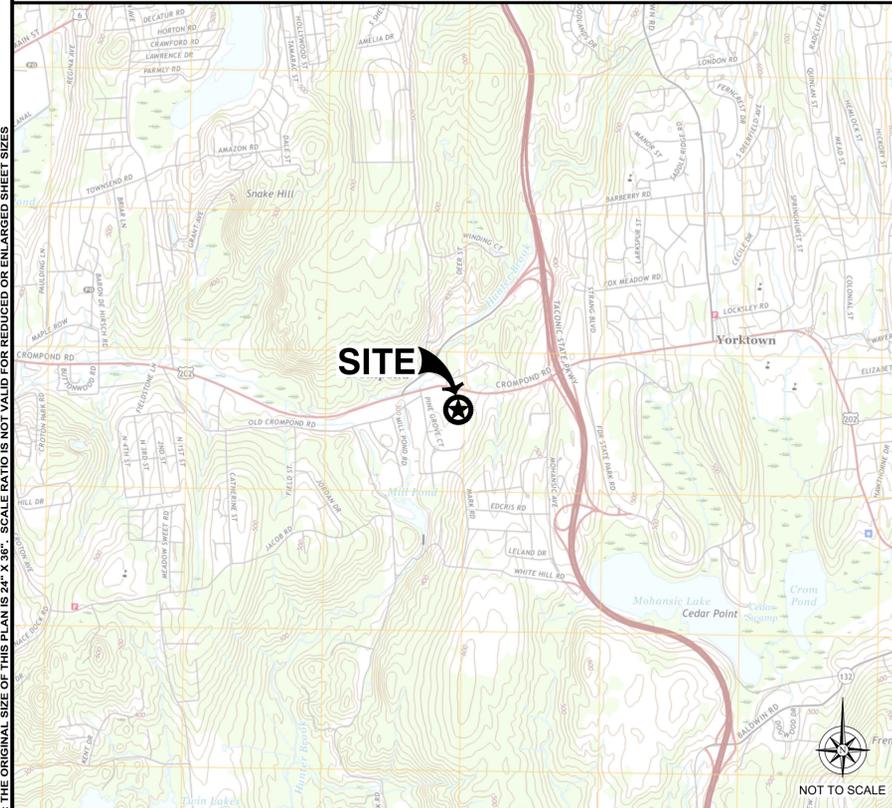
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CONTRACTOR VERIFICATION CHECKLIST

CODE BLOCK

PROJECT DESCRIPTION

PROJECT TEAM



Sheet Title	Sheet Number
COVER SHEET	C0-00
GENERAL NOTES	C0-01
VOLTA STATION OVERVIEW	C0-02
OVERALL SITE PLAN	C1-00
ENLARGED SITE PLAN	C2-00
SITE DETAILS	C3-00
SITE DETAILS	C3-01
SITE DETAILS	C3-02
SITE DETAILS	C3-03
SITE DETAILS	C3-04
SITE DETAILS	C3-05
ELECTRICAL ONE LINE DIAGRAM	E1-00
ELECTRICAL NOTES & DETAILS	E2-00

811 Know what's BELOW.
CALL before you dig.

DIG ALERT
CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS, CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG

LOCATION MAP

VICINITY MAP

CALL BEFORE YOU DIG

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

GENERAL NOTES:

- VOLTA WILL PROVIDE AN INSTALLATION GUIDE AND OTHER SUPPORTING DOCUMENTS AT TIME OF CONSTRUCTION.
- ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE. EXISTING UTILITY LOCATIONS AND CROSSINGS ARE TO BE LOCATED IN THE FIELD. CONTRACTOR IS TO CONTACT 811 UTILITY PRIOR TO BEGINNING ANY EXCAVATION WORK.
- ALL PAVEMENT, LANDSCAPING, UTILITIES, AND OWNER PROPERTY THAT IS DAMAGED OR AFFECTED BY CONSTRUCTION SHALL BE RETURNED TO EXISTING CONDITIONS OR BETTER AT THE CONTRACTOR'S EXPENSE.
- PROPOSED PAVEMENT STRIPING SHALL LINE UP WITH EXISTING STRIPING WHEREVER POSSIBLE. ADDITIONAL PAVEMENT STRIPE IS NOT NECESSARILY PARALLEL TO THE CONSTRUCTED CHARGING ISLAND.
- THIS ACCESSIBILITY REVIEW WAS UNDERTAKEN TO IDENTIFY DESIGN FEATURES OF THE PROJECT THAT MAY BE CONSIDERED BY GOVERNMENTAL AGENCIES OR DEPARTMENTS, OR NON-GOVERNMENTAL GROUPS TO BE NON-COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT OF 1990, REVISED 2010 ADA REGULATIONS AND STANDARDS. THE AMERICANS WITH DISABILITIES ACT OF 1990 IS A FEDERAL CIVIL RIGHTS LAW, THERE IS NO FEDERAL REVIEW PROCESS TO ENSURE FULL COMPLIANCE WITH THE GUIDELINES, EXCEPT THROUGH THE FEDERAL COURT SYSTEM. THE DEPICTIONS, NOTES, AND RECOMMENDATIONS, EXPRESSED ON THIS PLAN ARE BASED ON PROFESSIONAL JUDGEMENT GAINED FROM PAST EXPERIENCE WITH ACCESSIBILITY LAWS, CODES, AND STANDARDS AND THE WORKING INVOLVEMENT TO DEVELOP ACCESSIBILITY STANDARDS THAT WILL MEET OR EXCEED THE APPLICABLE FEDERAL GUIDELINES. ACCORDINGLY, NO CLAIMS OR WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE THAT IN PREPARING THIS PLAN AND PROPOSING RECOMMENDATIONS, THAT ALL POSSIBLE BARRIERS TO ALL PEOPLE HAVE BEEN IDENTIFIED.
- CONTRACTOR SHALL ACHIEVE A MINIMUM OF 1% BUT NO MORE THAN A 2% SLOPE IN ANY DIRECTION WITHIN ADJACENT ACCESSIBLE SPACE AND BLEND ASPHALT OVERLAY TO EXISTING GRADES AS REQUIRED. CONTRACTOR SHALL PROVIDE A SKETCH TO VOLTA OF PROPOSED LIMITS OF ASPHALT OVERLAY TO ACHIEVE THIS REQUIREMENT PRIOR TO BEGINNING PAVEMENT WORK.
- ACCESSIBLE EV STALLS WERE DESIGNED BASED ON EXISTING CONDITIONS AND WITHOUT THE BENEFIT OF SURVEY DATA. ALL ADA AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO SLOPE AND SPACING SHALL BE CONFIRMED BY THE CONTRACTOR AND MET AT THE TIME OF CONSTRUCTION.
- CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN ACCESSIBILITY PRIOR TO CONSTRUCTION.
- UNDER NO CIRCUMSTANCE IS THE CONTRACTOR TO DISRUPT ANY OPERATIONS AT THE SITE HOST LOCATION, INCLUDING BUT NOT LIMITED TO CUSTOMER DISRUPTION, UTILITIES, AND INFRASTRUCTURE.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT WORK AREAS WITH CONES AND/OR BARRICADES AT ALL TIMES.

EROSION CONTROL & GRADING NOTES:

- ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY LOCAL INSPECTOR.
- DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION, MULCH, TEMPORARY VEGETATION OR PERMANENT VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
- WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDING AREA WITHIN 24 HOURS OF SEEDING. IF UNABLE TO ACCOMPLISH, MULCH SHALL BE USED AS A TEMPORARY COVER. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER (DOES NOT APPLY TO RETAINING WALLS), AND CUTS AND FILLS WITHIN BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN. THE CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
- STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS. STOCK PILE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO GRADING ACTIVITIES. EROSION & SEDIMENT CONTROL PRACTICE SHALL BE INSTALLED PRIOR TO STOCKPILE OPERATIONS.
- CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
- MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED (WITHIN 15 DAYS OF ACHIEVED FINAL GRADES) UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION. STEEP SLOPES (GREATER THAN 3:1) SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
- PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
- DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
- SEQUENCE OF CONSTRUCTION INCLUDED ABOVE IS A GENERAL OVERVIEW, AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION IF ANY ADDITIONAL DETAIL IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE AHJ REQUIREMENTS.

ADA COMPLIANCE:

- CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.
- ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
- BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, 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 ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
- CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

SITE NOTES:

- HORIZONTAL DIRECTIONAL DRILLING (HDD) OR OTHER TRENCHLESS METHODS AS PROVIDED BY SITE HOST ARE THE PREFERRED METHOD TO INSTALL CONDUIT BENEATH EXISTING PARKED VEHICLES AND PAVED AREAS.
 - CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF TWO AND ONE-HALF FEET (2.5') OR BELOW THE FREEZE LINE, WHICHEVER IS DEEPER. CONDUIT TYPE AND DESIGN TO BE SPECIFIED BY EV CHARGING STATION VENDOR AND MEET ALL LOCAL REQUIREMENTS. CONDUIT DIAMETER SHALL BE NO LARGER THAN TWO (2) INCHES.
 - THE RECEIVING PIT SHALL BE LOCATED AS CLOSE AS REASONABLY POSSIBLE TO THE PROPOSED WALL PENETRATION TO LIMIT THE LENGTH OF BUILDING-MOUNTED CONDUIT. LOCATE RECEIVING PIT WITHIN ASPHALT PAVED AREA OR CONCRETE SIDEWALK AREA; RECEIVING PIT SHALL NOT BE LOCATED WITHIN THE UNLOADING PAD (SIX TO TEN INCH (6-10") REINFORCED CONCRETE SLAB AT THE REAR OF THE STORE). RECEIVING PIT LOCATION AND WORK AREA SHALL NOT AFFECT SITE HOST CUSTOMER OR DELIVERY TRAFFIC. SEE SUPPLEMENTAL DOCUMENTS, RECEIVING AREA DIAGRAM.
 - THE RECEIVING PIT SIZE SHALL BE LIMITED TO THREE FEET (3') BY THREE FEET (3') AND SHALL NOT UNDERMINE THE BUILDING FOUNDATION, ENCLOSURES OR CONCRETE UNLOADING PAD.
 - BACKFILL EXCAVATIONS AND REPAIR PAVEMENT PER SPECIFICATIONS BELOW.
 - WHERE CONCRETE PAVEMENT, SIDEWALK, ASPHALT PAVEMENT, CURBING, OR CURBING GUTTER IS REMOVED, THE WIDTH OF THE REMOVAL SHALL EXCEED THE ACTUAL WIDTH AT THE TOP OF THE TRENCH BY TWELVE INCHES (12") ON EACH SIDE OF THE TRENCH, OR A TOTAL OF TWO FEET (2') WIDER THAN THE TRENCH.
 - TRENCHING THROUGH THE CONCRETE RECEIVING PAD AT THE REAR OF THE STORE OR THE DRIVE-THRU SLAB IS NOT ALLOWED. ONLY TRENCHING THROUGH MINOR CONCRETE INSTALLATIONS SUCH AS SIDEWALKS WILL BE PERMITTED.
 - EXCAVATE TRENCHES TO A DEPTH FOUR INCHES (4") DEEPER THAN BOTTOM OF FINISHED PIPE ELEVATION.
 - THE BOTTOM WIDTH OF THE TRENCH SHALL BE AS REQUIRED TO PERMIT CONDUIT TO BE PROPERLY LAIN AND BACKFILL TO BE PLACED AND PROPERLY COMPACTED.
 - REMOVED PAVEMENT, CONCRETE AND EXCAVATED MATERIALS UNSUITABLE FOR USE AS BACKFILL SHALL BE DISPOSED OFFSITE.
 - BEDDING AND BACKFILL MAY BE MATERIAL EXCAVATED FROM THE TRENCH PROVIDED THAT IT IS FREE FROM DEBRIS AND ROCKS LARGER THAN ONE AND ONE-HALF INCHES (1-1/2").
 - OVER THE PIPE, IN LAYERS NOT EXCEEDING FOUR INCHES (4"), PLACE AND COMPACT SUITABLE FILL MATERIAL TO NINETY-FIVE PERCENT (95%) DRY DENSITY AS DETERMINED BY ASTM D698.
 - COMPACTING EQUIPMENT SHALL BE OF SUCH DESIGN, WEIGHT, AND QUALITY AS IS REQUIRED TO OBTAIN THE DENSITIES SPECIFIED HEREIN OR INDICATED ON THE DESIGN DRAWINGS. AREAS INACCESSIBLE TO SELF-PROPELLED COMPACTING EQUIPMENT SHALL BE COMPACTED OR CONSOLIDATED BY HAND-OPERATED MECHANICAL TAMPERS OR VIBRATORS.
 - RESTORE GRASS, LANDSCAPING, IRRIGATION AND ALL FEATURES TO THEIR PRECONSTRUCTION CONDITION.
- ANY UTILITIES, PAVEMENT, IRRIGATION, LANDSCAPING OR OTHER SITE FEATURES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY EV CHARGING STATION VENDOR TO SITE HOST SPECIFICATION.
 - WHERE LANDSCAPING IS IMPACTED, IT IS THE RESPONSIBILITY OF EV CHARGING STATION VENDOR TO REPOSITION OR PROVIDE NEW LANDSCAPING WITHIN THE SITE HOST PROPERTY TO ENSURE COMPLIANCE WITH ANY CODE REQUIREMENTS.
 - WHERE PARKING LOT, SIDEWALK OR OTHER PAVED AREAS ARE IMPACTED OR DAMAGED, IT IS THE RESPONSIBILITY OF THE EV CHARGING STATION VENDOR TO REPAIR THE AREA TO LIKE NEW CONDITION. REPAIR SHOULD EXTEND BEYOND DAMAGED AREA TO NEAREST CLEAN BREAK THAT ALIGNS WITH ARCHITECTURAL BREAKS, MATERIAL JOINTS, PAVEMENT MARKINGS, ETC.
- WHERE APPLICABLE, UTILITY SERVICE PROVIDER TO USE SITE HOST APPROVED ROE (RIGHT OF ENTRY) AGREEMENT. SITE HOST PROGRAM MANAGER WILL PROVIDE TEMPLATE WHEN NECESSARY.
 - ASPHALT PAVEMENT REMOVAL AND REPLACEMENT
 - SAW CUT THE PAVEMENT TO NEAT, STRAIGHT LINES TO THE FULL DEPTH OF THE PAVEMENT. PAVEMENT REMOVAL SHALL EXTEND A MINIMUM OF TWELVE INCHES (12") BEYOND THE EDGES OF THE REMOVAL AREA. ANY OTHER PAVEMENT AREAS DAMAGED DURING REMOVAL SHALL ALSO BE REPAIRED OR REPLACED AS NECESSARY
 - REMOVE THE PAVEMENT WITHOUT DAMAGING THE PAVEMENT THAT IS TO REMAIN IN-PLACE.
 - IF BASE REPLACEMENT IS REQUIRED, COMPACT THE IN-SITU SOILS TO NINETY-FIVE PERCENT (95%) ASTM D698 AND PLUS OR MINUS TWO PERCENT (2%) OF OPTIMUM MOISTURE CONTENT. REMOVE AND REPLACE ANY UNSUITABLE IN-SITU SOILS.
 - PLACE AND COMPACT BASE MATERIAL TO NINETY-FIVE PERCENT (95%) OF ASTM D698.
 - APPLY PRIME COAT TO AGGREGATE BASE IN COMPLIANCE WITH THE DOT SPECS. PRIME COAT SHALL NOT BE APPLIED MORE THAN TWENTY-FOUR (24) HOURS BEFORE ASPHALT PAVEMENT IS PLACED. APPLICATION RATE TO BE PER THE DOT SPEC.
 - CLEAN AND APPLY TACK COAT TO THE ENDS OF CURBS, EDGES OF CONCRETE SURFACES, EDGES OF MANHOLES AND INLETS AND EDGES OF SAW CUT PAVEMENT THAT WILL REMAIN IN-PLACE.
 - PLACE AND COMPACT HOT-MIX ASPHALT. HOT-MIX ASPHALT THICKNESS SHALL BE THE GREATER OF THE IN-PLACE ASPHALT OR THREE AND ONE-HALF INCHES (3.5"). ASPHALT MIX DESIGN SHALL BE BY THE CONTRACTOR.
 - PLANT MIXED ASPHALT BASE/BINDER COURSE: PROVIDE ONE COURSE LAID TO A MINIMUM COMPACTED THICKNESS OF TWO INCHES (2").
 - PLANT MIXED ASPHALT SURFACE COURSE: PROVIDE ONE COURSE LAID TO A MINIMUM COMPACTED THICKNESS OF ONE AND ONE-HALF INCHES (1-1/2").
 - FOR SMALLER JOBS, IT MAY NOT BE FEASIBLE TO INSTALL BINDER AND SURFACE COURSES, IN WHICH CASE SURFACE COURSE, PLACED AND COMPACTED IN TWO LIFTS, WILL BE ACCEPTED.
 - IF PLACING HOT MIX ASPHALT WITH A SHOVEL, BEGIN PLACING HMA AGAINST THE EDGES OF THE PATCH AND WORKING INWARD. HMA SHOULD NOT BE PLACED IN THE CENTER OF THE PATCH AND RAKED TOWARDS THE EDGES.
 - THE FIRST PASS OF THE ROLLER OR COMPACTION EQUIPMENT SHOULD BE ALONG THE EDGES OF THE PATCH TO PROPERLY FORM THE JOINT. THE ROLLER WHEEL OR COMPACTION EQUIPMENT SHOULD OVERHANG THE EXISTING PAVEMENT ONTO THE PATCH BY SIX INCHES (6"). AFTER THE PERIMETER OF THE PATCH HAS BEEN COMPACTED BEGIN TO WORK TOWARDS THE CENTER OF THE PATCH WITH SUCCESSIVE PASSES OFFSET BY SIX INCHES (6").
 - THE CONTRACTOR SHALL UTILIZE THE APPROPRIATE HEAVY COMPACTION EQUIPMENT TO ACHIEVE THE REQUIRED COMPACTION OF THE ASPHALT.
 - SEAL THE AREA AROUND THE EDGES WITH AN ELASTOMERIC LIQUID ASPHALT SEALER TO PROTECT AGAINST WATER INFILTRATION, INCLUDING ANY INADVERTENT OVERCUTS DURING THE SAW CUTTING PROCEDURE.

PROJECT LEGEND:

(SCALE VARIES PER SHEET)

DETAIL NO.	SHEET NO.
	PROPERTY LINE
	BREAK LINE
	EXISTING CURB AND GUTTER
	EXISTING PARKING STRIPE
	EXISTING CONCRETE PAD
	EXISTING TREE
	EXISTING SHRUB
	EXISTING FIRE HYDRANT
	EXISTING CATCH BASIN / MANHOLE
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING STRUCTURE / UTILITY
	EXISTING ELECTRICAL ROOM / PANEL
	PROPOSED ELECTRICAL CONDUIT
	PROPOSED ELECTRICAL JUNCTION BOX
	PROPOSED COMMUNICATIONS CONDUIT
	PROPOSED COMMUNICATIONS JUNCTION BOX
	PROPOSED CURB AND GUTTER
	PROPOSED PARKING STRIPE
	PROPOSED CONCRETE WHEEL STOP
	PROPOSED CONCRETE PAD
	PROPOSED TREE PROTECTION
	PROPOSED VOLTA V4 L2 CHARGING STATION
	PROPOSED VOLTA V4 L2 POST-INSTALLED CHARGING STATION
	PROPOSED VOLTA V4 L2 DCFC CHARGING STATION
	PROPOSED VOLTA V4 L2 EVCS W/ 4" PIPE BOLLARDS
	PROPOSED VOLTA V3 L2 CHARGING STATION
	PROPOSED V3 L2 EVCS FOUNDATION W/ 4" PIPE BOLLARDS
	PROPOSED PCS FOUNDATION
	PROPOSED PCS FOUNDATION W/ 4" BOLLARDS
	PROPOSED L2 REMOTE CHARGING UNIT FOUNDATION
	PROPOSED eBOX & eCLICK
	PROPOSED SIGN POST
	PROPOSED SIGN POST W/ BOLLARD
	PROPOSED POST INSTALLED SIGN POST
	PROPOSED POST INSTALLED SIGN POST W/ BOLLARD
	PROPOSED WALL MOUNTED SIGN
	PROPOSED 4" ISOLATED PIPE BOLLARD

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES.

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**3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
C0-01

DC Fast Media Station

Volta Charging is driving the transition to clean electric transportation by transforming properties with electric vehicle charging. No longer will people drive to fuel, but fuel where they drive.

Volta's turn-key electric vehicle charging is tailored to each location's needs and desired customer experience to increase traffic and customer engagement. Our fully integrated EV chargers include high-impact digital media screens that provide properties with branding and messaging as well as additional revenue opportunities.



DC Fast Media Station

Charger Specs

- Output power: 50 kW max (DC)
- Safety certification: ETL safety certified

Power Requirements

- Input voltage: 480 VAC
- Output voltage: 50 - 500 VDC
- Circuit size: 90A/3P @ 480V (50kW) or 175/3P @ 480V (50kW x 2)
- Network connectivity: Cell connection or LAN access

Display Screen Specs

- Size: 55" Outdoor LED back light system x2
- Picture: Full HD 1080p resolution
- Power requirements: 20A/1P, 120V breaker
- File type: JPEG or PNG

Installation Requirements

- Foundation requirements: 36"D x 36"L x 36"W approx.
- Conduit diameter: 3" power conduit / 1" communication conduit approx.

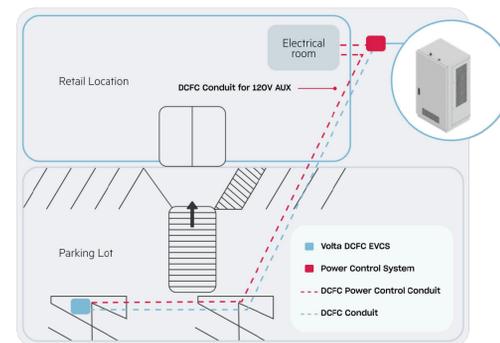
Power Control System (PCS)

Supports upto 2 DC Fast stations

- Single 50 kW station: 90A/3P, 480V breaker
- (2) 50 kW stations: 175A/3P, 480V breaker
- Certification: UL ® 2202, 2231, 50E
- Dimensions: 82"H x 42"L x 35"D
- Weight range: 1350-1900 lbs

Installation Requirements

- Foundation requirements: 48"D x 48"L x 48"W
 - Clearance: 96"H x 75"D x 114"W
 - Conduit diameter: size varies based on run lengths
- Contact engpm@voltacharging.com



voltacharging.com

770-00003

volta

155 DE HARO STREET
SAN FRANCISCO, CA 94103

Kimley»Horn
New York

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STAPLES PLAZA

**3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598**

SHEET TITLE

**VOLTA STATION
OVERVIEW**

SHEET NUMBER

C0-02



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

OVERALL SITE PLAN

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CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND IS TO ALERT THE ENGINEER AND VOLTA OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH VOLTA PM FOR ALL FINAL PLACEMENTS OF INFRASTRUCTURE.

CONSTRUCTION NOTES:

- CONTRACTOR RESPONSIBILITIES CONSISTS OF, BUT NOT LIMITED TO, CHARGING STATION MOUNTING, FOUNDATION CONSTRUCTION, CONDUIT INSTALLATION, AND WIRING.
- CONTRACTOR TO PAINT PROPOSED EV PARKING STALLS PER JURISDICTIONAL REQUIREMENTS.
- CONTRACTOR TO INSTALL TREE PROTECTION FENCING PRIOR TO ANY CONSTRUCTION ACTIVITY. SEE SHEET C3-00 FOR DETAILS.
- EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS.
- CONTRACTOR TO FIELD VERIFY ALL STALL DIMENSIONS AND ALL EQUIPMENT LOCATIONS TO ENSURE SUFFICIENT SPACE IS AVAILABLE.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN DRILLING INTO EXISTING CIP SLAB AND CIP DROP PANELS TO AVOID DAMAGE TO ANY REINFORCING AND EXISTING STRUCTURAL COMPONENTS.
- USE APPROVED ASTM METHOD (X-RAY, PACOMETER, GPR, ETC.) TO LOCATE MILD STEEL AND PRE-STRESSING TENDONS PRIOR TO DRILLING. DO NOT CUT OR DRILL THROUGH ANY EXISTING REINFORCING. ADJUST LOCATION AS NECESSARY TO AVOID EXISTING REINFORCING. ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
- VOLTA WILL MAKE EVERY EFFORT TO FOLLOW, WITH THEIR PROPOSED CONDUIT, AN EXISTING CONDUIT ROUTE FROM ELECTRICAL ROOM TO PROPOSED STATION PLACEMENTS. WHEN AN EXISTING ROUTE IS NOT AVAILABLE, VOLTA WILL MAKE EVERY EFFORT TO CONCEAL/HIDE, PAINT AND MINIMIZE VISUAL IMPACT OF CONDUITS ANYWHERE THEY MAY BE VISIBLE TO THE PUBLIC.
- CONTRACTOR IS RESPONSIBLE TO LOCATE ALL VERTICAL AND HORIZONTAL UTILITIES PRIOR TO DIRECTIONAL BORING. ANY ALTERATIONS TO THE PROPOSED CONDUIT ROUTE ARE TO BE COORDINATED WITH THE PROFESSIONAL ENGINEER(S) PRIOR TO CONSTRUCTION.
- ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO LOCATE JUNCTION BOX OR APPROVED ALTERNATIVE FOR SITE SPECIFIC RUN LENGTHS AND BENDS.

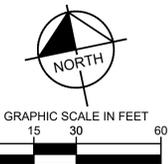
PARKING NOTE:

- THIS PROJECT PROPOSES TO UPGRADE (2) STANDARD PARKING STALLS TO (2) EV PARKING STALLS FOR EV READINESS. NO PARKING REDUCTION IS PROPOSED.
- NO NET CHANGE IN PARKING COUNT

REFERENCE NOTE:

- SEE PROJECT LEGEND ON SHEET C0-01 FOR SYMBOLS AND LINE TYPE DESCRIPTIONS.

IMAGE REFERENCE:
AERIAL IMAGE(S) PROVIDED BY NEARMAP
IMAGERY ©2022 Nearmap, HERE



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New York

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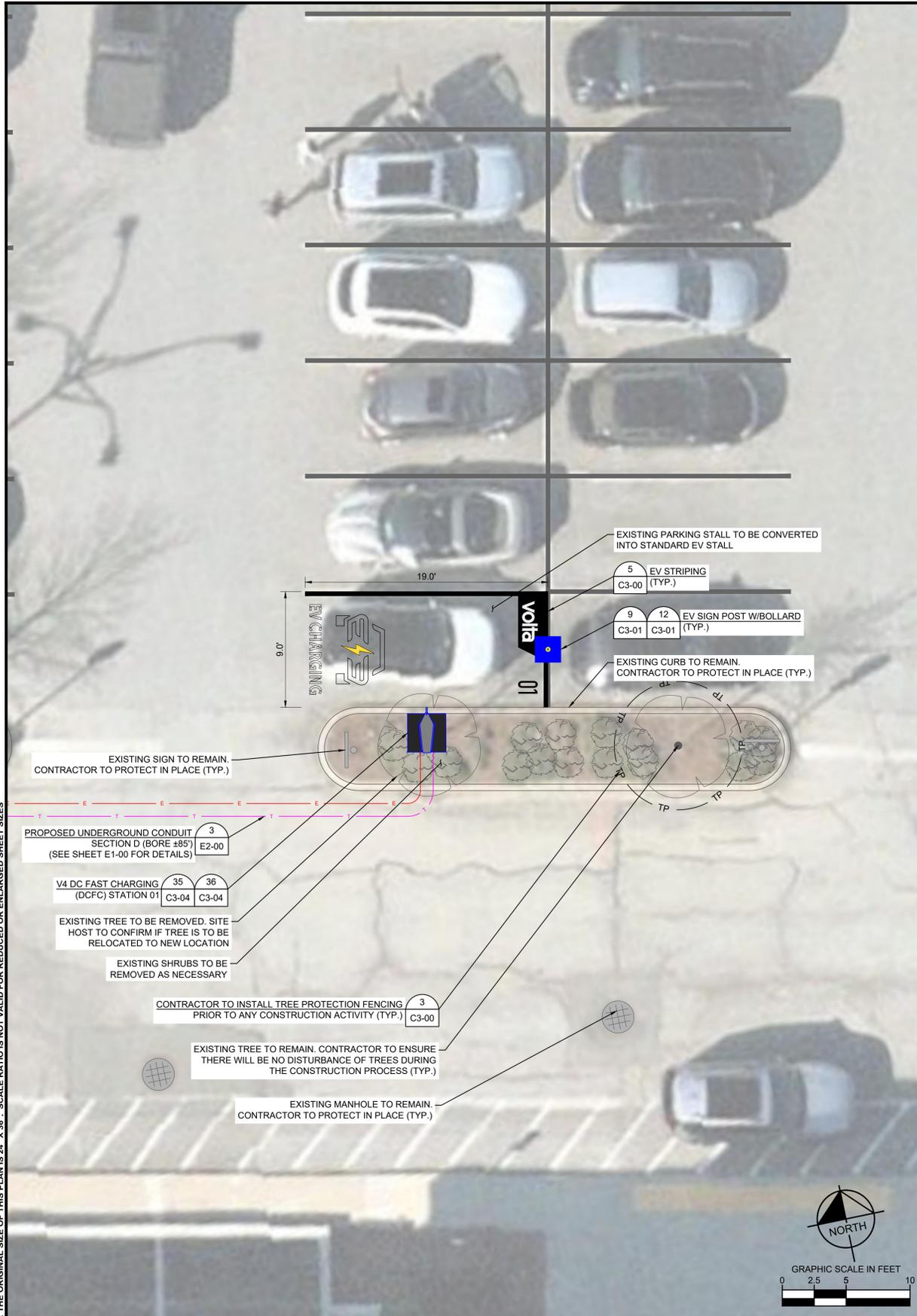
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STAPLES PLAZA
3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C1-00

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



ENLARGED SITE PLAN

1



ENLARGED SITE PLAN

2

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CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND IS TO ALERT THE ENGINEER AND VOLTA OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH VOLTA PM FOR ALL FINAL PLACEMENTS OF INFRASTRUCTURE.

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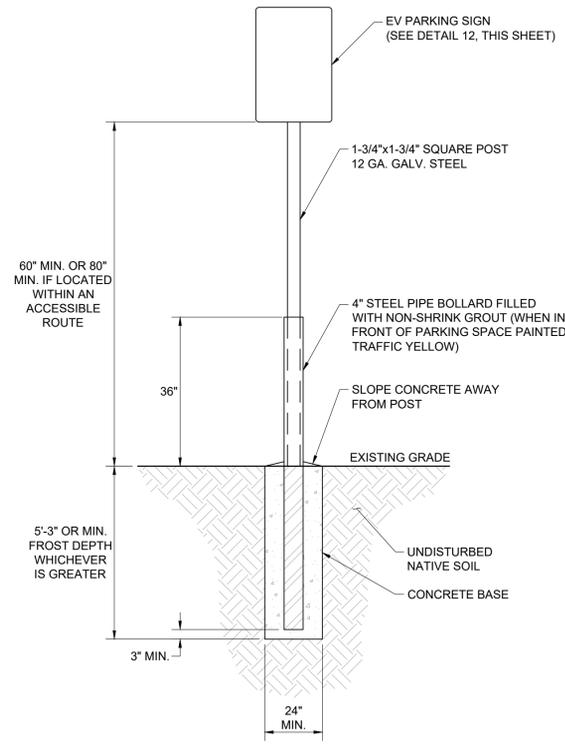
**3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598**

SHEET TITLE

**ENLARGED SITE
PLAN**

SHEET NUMBER

C2-00



- NOTES:
- SIGN TO BE GREEN (PANTONE 355C) WITH WHITE LETTERING AND MUST BE REFLECTIVE LETTERING.
 - TO BE PLACED AT HEAD OF PARKING STALL.
 - POST MOUNTED OBJECTS PER ADA CODE SECTION 11B-307.3.
 - THIS DETAIL SHALL BE USED WHEN SIGN POST IS LOCATED IN PARKING LOT PAVEMENT, OR WITHIN 2' CAR OVERHAND ZONE.
 - REFER TO NOTES FOR ASSUMED GEOTECHNICAL 164 PARAMETERS. THIS SIGN DESIGN ASSUMES ASCE 7-10 WIND SPEED AND AN EXPOSURE CATEGORY B. IF EITHER OF THESE GEOTECHNICAL PROPERTIES OR ASCE 7-10 WIND PARAMETERS DIFFER BASED ON LOCATION THE DESIGN MUST BE UPDATED BY A STRUCTURAL ENGINEER.

NOT USED SCALE N.T.S. 10

NOT USED SCALE N.T.S. 11

NOT USED SCALE N.T.S. 8

SIGN POST W/BOLLARD SCALE N.T.S. 9

FOR REFERENCE ONLY, DESIGNED AND PROVIDED BY OTHERS.

- NO TIME LIMIT SIGN**
STADIUMS, OTHER VENUES, ECT.
- 45 MIN. TIME LIMIT SIGN**
FAST FOOD RESTAURANTS, ECT.
- 1 HR. TIME LIMIT SIGN**
DRUG STORES OR SIMILAR QUICK/CONVENIENCE SITES
- 2 HR. TIME LIMIT SIGN**
GROCERY STORES, MALLS, ECT.
- 3 HR. TIME LIMIT SIGN**
MOVIE THEATERS, ENTERTAINMENT CENTERS, ECT.
- 30 MIN. TIME LIMIT SIGN**
DCFC STALLS

SIGN INSTALLATION TYPE:
CONTRACTOR SHALL COORDINATE WITH VOLTA TO DETERMINE EVCS SIGN TYPE PRIOR TO INSTALLATION.

SIGN INSTALLATION HEIGHT:
ALL SIGNS TO BE INSTALLED AT 60" ABOVE FINISH FLOOR. IF SIGNS ARE LOCATED WITHIN AN ACCESSIBLE ROUTE, THEY WILL BE INSTALLED AT 80" ABOVE FINISHED FLOOR. MEASUREMENTS ARE TAKEN FROM BOTTOM OF LOWEST SIGN.

SIGN REQUIREMENTS SCALE N.T.S. 12

NOT USED SCALE N.T.S. 13

NOT USED SCALE N.T.S. 14

NOT USED SCALE N.T.S. 15

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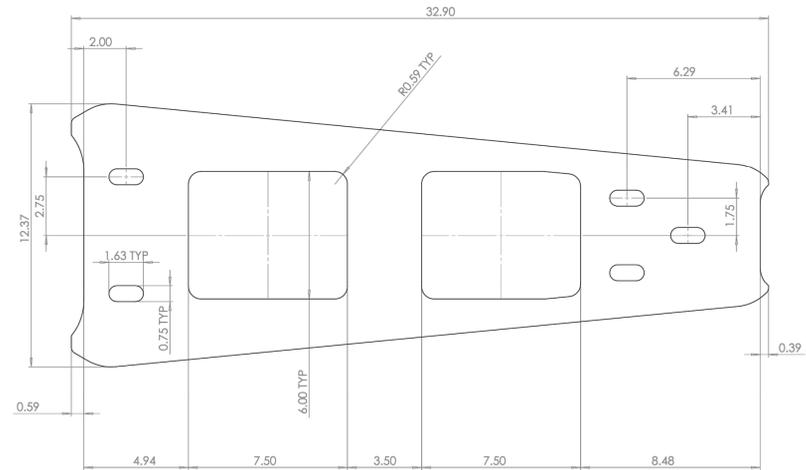
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3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598

SHEET TITLE
SITE DETAILS

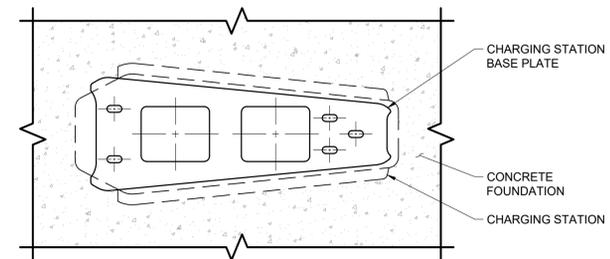
SHEET NUMBER
C3-01

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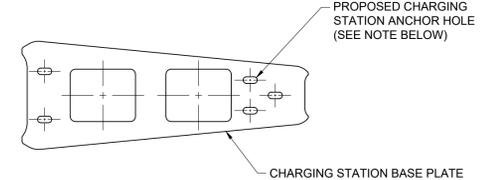
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NOTE:
1. REFER TO DETAIL 18 FOR BASE PLATE ANCHORAGE.



CHARGING STATION BASE PLAN VIEW



CHARGING STATION BASE PLATE PLAN VIEW

NOTES:
1. CONTRACTOR TO VERIFY POST INSTALLATION OR CAST IN PLACE ANCHOR AS LISTED BELOW BASED ON FIELD MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.
2. CONTRACTOR TO VERIFY EXISTING CONCRETE SLAB THICKNESS AND MAINTAIN 2" MINIMUM COVER OF CONCRETE BELOW EMBEDDED ANCHORS.
3. REFER TO DETAIL 17 FOR BASE PLATE DIMENSIONS.

CAST IN PLACE ANCHOR:
MINIMUM EFFECTIVE EMBEDMENT OF 2" OR ENGINEER APPROVED EQUAL.

POST INSTALLATION MECHANICAL ANCHOR:
(4) 5/8" DIAMETER HILTI KWIK BOLT TZ-SS304 ANCHOR ROD WITH MINIMUM EFFECTIVE EMBEDMENT OF 3-1/4" OR ENGINEERING APPROVED EQUAL.

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STAPLES PLAZA

**3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598**

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C3-02

NOT USED

SCALE
N.T.S.

16

VOLTA V4 BASE PLATE

SCALE
N.T.S.

17

VOLTA BASE PLATE ANCHORAGE

SCALE
N.T.S.

18

NOT USED

SCALE
N.T.S.

19

NOT USED

SCALE
N.T.S.

20

NOT USED

SCALE
N.T.S.

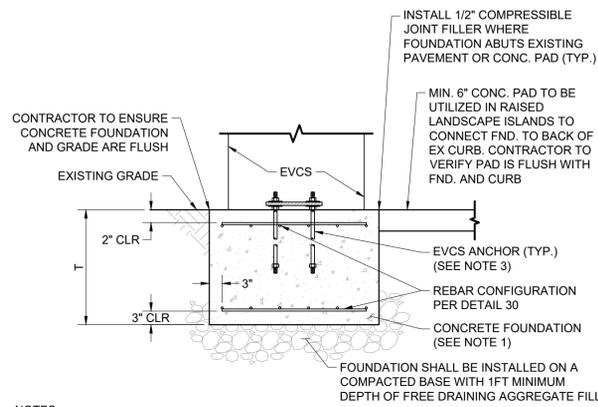
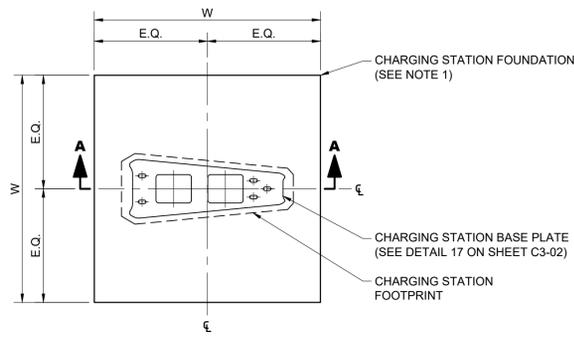
21

NOT USED

SCALE
N.T.S.

22

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NOTES:
 1. SEE DETAIL 30 - FOR FOUNDATION VARIABLES.
 2. EXISTING GRADE AROUND EVCS'S INSTALLED IN ISLANDS CAN BE GRASS OR FILLED WITH REINFORCED CONCRETE AT #4 @ 12" O.C. PROVIDE 1/2" COMPRESSIBLE JOINT FILLER AND POURED SEPARATELY.
 3. KHA IS NOT RESPONSIBLE FOR THE DESIGN OF EQUIPMENT OR ANCHORAGE TO THE FOUNDATION. ANCHORAGE SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER AND ARE ASSUMED TO BE CAST-IN-PLACE PER MANUFACTURER RECOMMENDATIONS. IF REQUIRED, POST-INSTALLED ANCHORAGE MAY BE IMPLEMENTED PER DETAIL 29.

NOTES:
 1. SEE DETAIL 30 - FOR FOUNDATION VARIABLES.
 2. SEE DETAIL 24 - FOR PARKING LOT INSTALLATIONS.
 3. SEE DETAIL 29 - FOR PARKING GARAGE INSTALLATIONS.
 3. CHARGING STATION FOUNDATION TO EXTEND FROM BACK OF CURB TO BACK OF CURB WHEN PLACED IN LANDSCAPE ISLAND.

V4 EVCS FOUNDATION SCALE N.T.S. **23**

V4 EVCS FOUNDATION SECTION A-A SCALE N.T.S. **24**

NOT USED SCALE N.T.S. **25**

NOT USED SCALE N.T.S. **26**

EVCS PAD FOUNDATIONS					
CONFIGURATION	WIDTH (W)	THICKNESS (T)	REBAR LAYERS	REBAR SIZE	REBAR QTY. (PER LAYER)
4	3.50	2.50	2	#5	4

NOTES:
 1. FOUNDATION WAS DESIGNED IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE (IBC), ASCE 7-16, AND ACI 318-14.
 2. PRESUMPTIVE SOILS WERE ASSUMED PER 2018 IBC TABLE 1806.2.
 3. FOUNDATION SHALL BE INSTALLED ON COMPACTED SUBGRADE WITH BASE WITH 1FT MINIMUM DEPTH OF FREE DRAINING AGGREGATE FILL (UNLESS OTHERWISE SPECIFIED).
 4. VOLTA V4 ELECTRIC VEHICLE CHARGING STATION (EVCS) MAY BE ROTATED AS NEEDED ON PROPOSED FOUNDATION BLOCK.
 5. ALL EQUIPMENT ANCHORAGE MAY BE CAST-IN-PLACE OR POST-INSTALLED. ANCHORAGE SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

NOT USED SCALE N.T.S. **27**

NOT USED SCALE N.T.S. **28**

NOT USED SCALE N.T.S. **29**

EVCS VARIABLE FOUNDATIONS TABLE SCALE N.T.S. **30**

NOT USED SCALE N.T.S. **31**

NOT USED SCALE N.T.S. **32**

NOT USED SCALE N.T.S. **33**

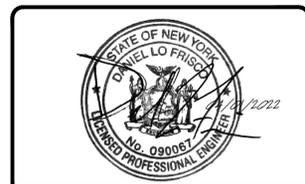
NOT USED SCALE N.T.S. **34**



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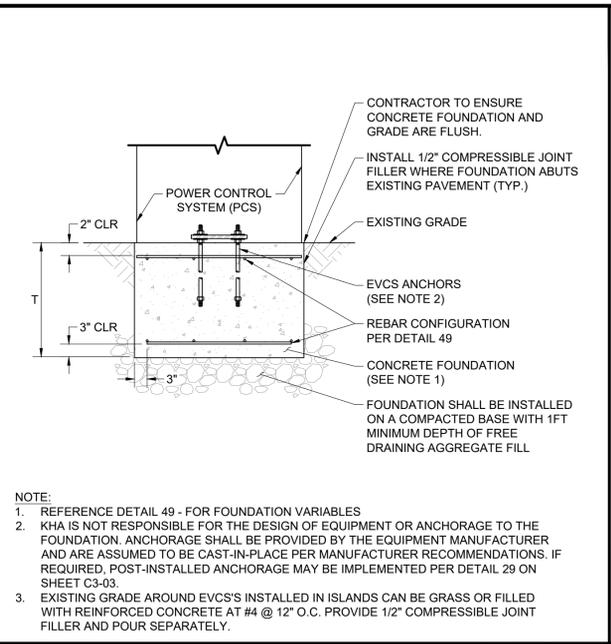
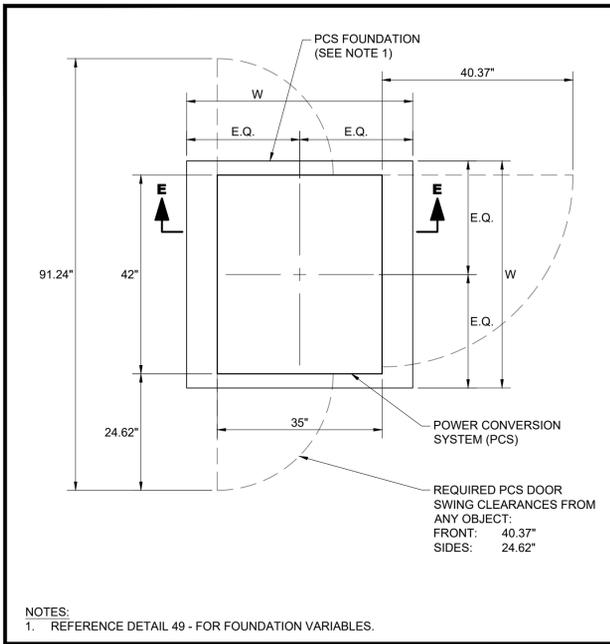
STAPLES PLAZA

3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C3-03

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



PCS FOUNDATION SCALE N.T.S. **42**

PCS FOUNDATION SECTION E-E SCALE N.T.S. **43**

NOT USED SCALE N.T.S. **44**

NOT USED SCALE N.T.S. **45**

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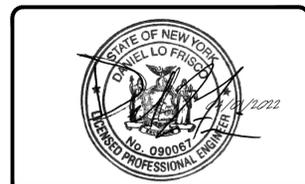
PCS PAD FOUNDATIONS					
CONFIGURATION	WIDTH (W)	THICKNESS (T)	REBAR LAYERS	REBAR SIZE	REBAR QTY. (PER LAYER)
4	3.50	2.00	2	#5	4



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STAPLES PLAZA
3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C3-05

Modular HPC System: 50, 100, 150, 200, 350 kW

PARAMETERS	POWER ENGINE CABINET MODEL				
	HPCT-50-480-2	HPCT-100-480-2	HPCT-150-480-2	HPCT-200-480-2	HPCT-200-480-2
Power Rating	50 kW	100 kW	150 kW	200 kW	350 kW
Number of Power Engines	1	2	3	4	8 (4 from each power cabinet)
Input Power	480VAC-3P				
Input Power AC Current (I _{PA})	66 A	132 A	198 A	264 A	2 x 264 A
Power Stage Efficiency Rating	> 92% (Full Load)				
Max. Out DC Current up to 920 VDC	62A	125 A	187A	250 A	500 A
Max. Out DC Current up to 500 VDC	125	250 A	375 A	500 A	500 A
Max. Output DC Voltage	50- 950 VDC				
Max # of Dispensers	1	2	2	2	2
Dimension & Weight	42"W x 35"D x 82"H, 1900 lbs				

ENVIRONMENTAL AND COMPLIANCE (SYSTEM)

Ambient Condition: -30 °C to +50 °C, 95% Humidity, 6000 ft Altitude, NEMA 3R

Safety Compliance: ETL Listed for USA and Canada; Complies with UL 2202, UL 2231, UL50E, NEC Article 625, CSA STD C22.2 No. 107.1 FCC Part 15 Class A

BTC POWER
1719 S Grand Ave, Santa Ana, CA 92705 | www.btcpower.com | sales@btcpower.com

Page 20 of 41

100kW High Power DC Charger INSTALLATION AND USER'S MANUAL

INSTALLATION

6.2. Mounting Procedures

6.2.1. Clearance Around the Unit

Clearance surrounding the unit must be considered for proper ventilation and service accessibility. Refer to the installation drawings as illustrated below.

Power Box / Tower Installation Drawing

BTC POWER
Initial Release: 10-Jun-19

Page 22 of 41

100kW High Power DC Charger INSTALLATION AND USER'S MANUAL

INSTALLATION

Power Box / Tower Footer Drawing

The illustration below shows the drilling layout for the Power Box / Tower. Only four (4) points are needed to fix the unit on the concrete pad. The conduit entry to the unit is also shown.

BTC POWER
Initial Release: 10-Jun-19

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NOTES:
1. FOUNDATION WAS DESIGNED IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE (IBC), ASCE 7-16, AND ACI 318-14.
2. PRESUMPTIVE SOILS WERE ASSUMED PER 2018 IBC TABLE 1806.2.
3. FOUNDATION SHALL BE INSTALLED ON COMPACTED SUBGRADE WITH BASE WITH 1FT MINIMUM DEPTH OF FREE DRAINING AGGREGATE FILL (UNLESS OTHERWISE SPECIFIED).
4. VOLTA POWER CONTROL SYSTEM (PCS) MAY BE ROTATED AS NEEDED ON PROPOSED FOUNDATION BLOCK.
5. ALL EQUIPMENT ANCHORAGE MAY BE CAST-IN-PLACE OR POST-INSTALLED. ANCHORAGE SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

PCS VARIABLE FOUNDATIONS TABLE SCALE N.T.S. **49**

PCS CUT SHEET SCALE N.T.S. **46**

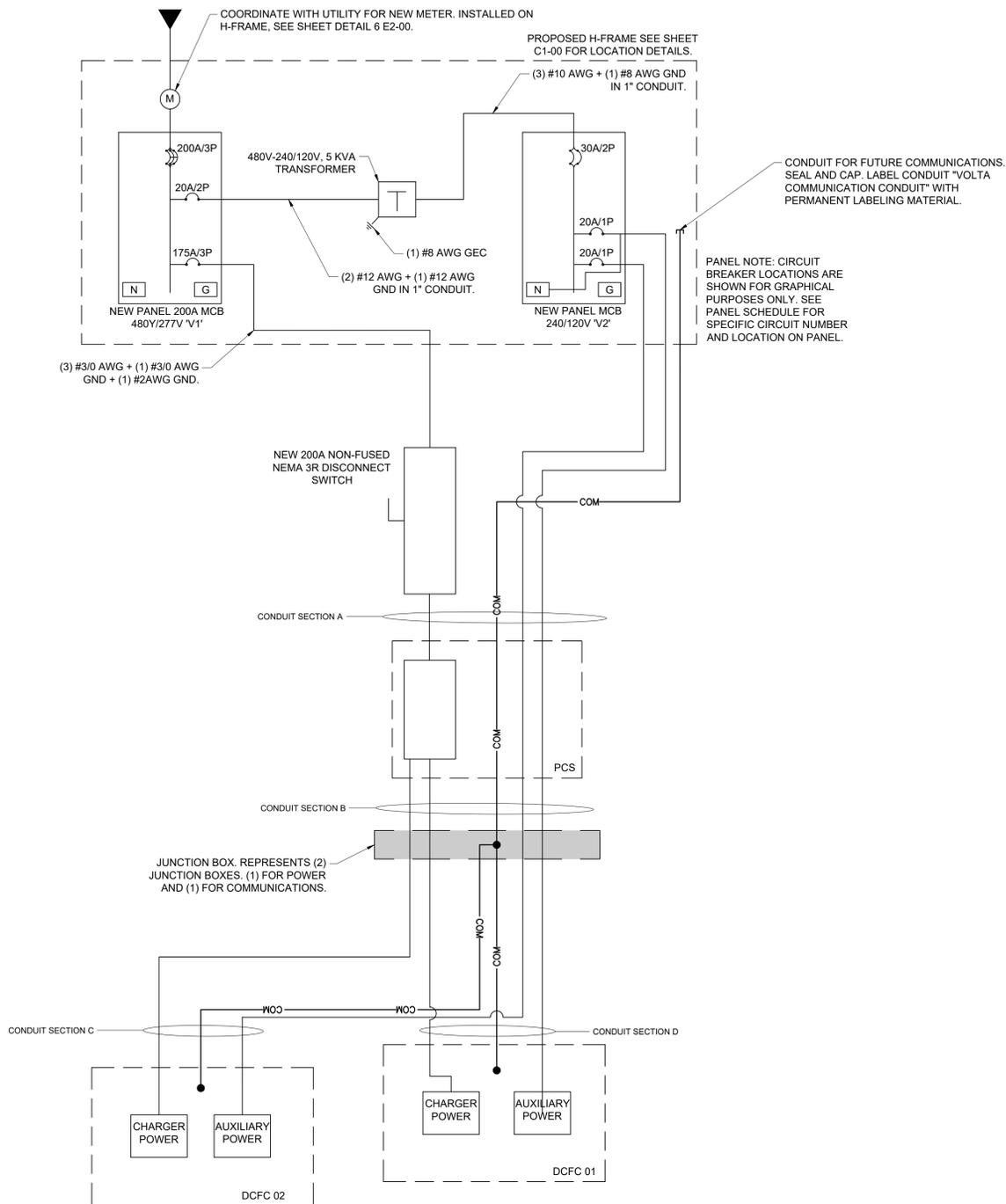
PCS MIN. CLEARANCES CUT SHEET SCALE N.T.S. **47**

PCS BASE PLATE CUT SHEET SCALE N.T.S. **48**

NOT USED SCALE N.T.S. **50**

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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VERIFICATION NOTES:

1. THIS IS A NEW UTILITY SERVICE. NO VERIFICATIONS NEEDED.

NOTES:

1. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
2. ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
3. CONTRACTOR SHALL USE THWN COPPER CONDUCTORS.
4. CONTRACTOR SHALL USE EMT INSIDE AND OUTSIDE ABOVE GRADE WHERE NOT SUBJECT TO DAMAGE. CONTRACTOR SHALL USE RGS INSIDE AND OUTSIDE ABOVE GRADE WHERE SUBJECT TO DAMAGE. CONTRACTOR SHALL USE PVC SCHEDULE 80 UNDER PAVED OR SIDEWALK AREAS AND PVC SCHEDULE 40 IN DIRT OR LANDSCAPED AREAS.
5. SEE SHEETS C1-00 AND C2-00 FOR CONDUIT STUB UP LOCATIONS.
6. CONTRACTOR TO LOCATE JUNCTION BOX, LINE BOX (LB), OR APPROVED ALTERNATIVE FOR SITE SPECIFIC RUN LENGTHS AND BENDS.

Panel Schedule													
Proposed New Panel 'V1' Location: Exterior Area for Electrical Equipment Volts: 480Y/277V Phase: 3 Wire: 4 Hertz: 60													
200A MCB Main AIC: AWAITING UTILITY PROVIDES FAULT CURRENT LETTER Branch AIC: TBD ENCL (NEMA): 3R MTG: H-Frame													
Description of Load Served	Breaker Amp Pole	Wire	A/Phase			CKT No	CKT No	A/Phase			Wire	Breaker Amp Pole	Description of Load Served
			A	B	C			A	B	C			
PROPOSED VOLTA L3 EVCS 01 & 02	175 3	#3/0	132.0			1	2	4.3	4.3	0.0	#12 20 2	STEP DOWN TRANSFORMER FOR PROPOSED VOLTA PANEL 'V2'	
SPACE						3	4					SPACE	
SPACE						5	6					SPACE	
SPACE						7	8					SPACE	
SPACE						9	10					SPACE	
SPACE						11	12					SPACE	
SPACE						13	14					SPACE	
SPACE						15	16					SPACE	
SPACE						17	18					SPACE	
SPACE						19	20					SPACE	
SPACE						21	22					SPACE	
SPACE						23	24					SPACE	
SPACE						25	26					SPACE	
SPACE						27	28					SPACE	
SPACE						29	30					SPACE	
SPACE						31	32					SPACE	
SPACE						33	34					SPACE	
SPACE						35	36					SPACE	
SPACE						37	38					SPACE	
SPACE						39	40					SPACE	
SPACE						41	42					SPACE	
Total A/Phase			132.0	132.0	132.0			4.3	4.3	0.0	Total A/Phase		

Notes:

1. Connected KVA (New): 112.1
2. Demand KVA (New): 140.1
3. Contractor shall match existing AIC Rating.
4. Where load is labeled 'EX' the load is unknown.

Panel Schedule													
Proposed New Panel 'V2' Location: Exterior Area for Electrical Equipment Volts: 240/120 Phase: 1 Wire: 3 Hertz: 60													
30A MCB Main AIC: 10K Branch AIC: 10K ENCL (NEMA): 3R MTG: H-Frame													
60 Amp Frame, Ground Bar, Locking Cover, Panel Card													
Description of Load Served	Breaker Amp Pole	Wire	A/Phase			CKT No	CKT No	A/Phase			Wire	Breaker Amp Pole	Description of Load Served
			A	B	C			A	B	C			
EVCS 01 AUX POWER	20 1	See Note 3	10.0			1	2					SPACE	
EVCS 02 AUX POWER	20 1	See Note 3		10.0		3	4					SPACE	
SPACE						5	6					SPACE	
SPACE						7	8					SPACE	
SPACE						9	10					SPACE	
SPACE						11	12					SPACE	
SPACE						13	14					SPACE	
SPACE						15	16					SPACE	
SPACE						17	18					SPACE	
SPACE						19	20					SPACE	
SPACE						21	22					SPACE	
SPACE						23	24					SPACE	
SPACE						25	26					SPACE	
SPACE						27	28					SPACE	
SPACE						29	30					SPACE	
Total A/Phase			10.0	10.0	0.0			0.0	0.0	0.0	Total A/Phase		

Notes:

1. Connected KVA (New): 2.4
2. Demand KVA (New): 3.0
3. See Voltage Drop Table for conductor sizing.

Conduit Schedule				
Conduit Section	Conduit #	Conduit Size	Conductors	Installation Method
A	1	3"	(3) #3/0 AWG + (1) #4 AWG GND + (See DCFC AUX Voltage Drop Table)	Directional Bore
	2	1"	Future Communications w/ Pull String	
B	1	3"	(4) 250 MCM AWG + (1) #4 AWG GND + (See DCFC AUX Voltage Drop Table)	Directional Bore
	2	1"	(4) 1 Pair OM3 multimode fiber optic cable with ST connectors + (4) #18 AWG STP	
C	1	3"	(2) 250 MCM AWG + (1) #4 AWG GND + (See DCFC AUX Voltage Drop Table)	Hand Trench
	2	1"	(2) 1 Pair OM3 multimode fiber optic cable with ST connectors + (2) #18 AWG STP	
D	1	3"	(2) 250 MCM AWG + (1) #4 AWG GND + (See DCFC AUX Voltage Drop Table)	Directional Bore
	2	1"	(2) 1 Pair OM3 multimode fiber optic cable with ST connectors + (2) #18 AWG STP	

DCFC Conductor Voltage Drop Table Per Dispenser (AUX Component)					
≤85FT	86FT-135FT	136FT-220FT	221FT-350FT	351FT-550FT	551FT-880FT
(2) #12 AWG + (1) #12 AWG GND	(2) #10 AWG + (1) #10 AWG GND	(2) #8 AWG + (1) #8 AWG GND	(2) #6 AWG + (1) #6 AWG GND	(2) #4 AWG + (1) #4 AWG GND	(2) #2 AWG + (1) #2 AWG GND

VOLTAGE DROP TABLE NOTES

1. DISTANCE BASED ON LOCATION OF SUPPLYING PANEL TO LOCATION OF DISPENSER
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DE-RATING CONDUCTORS WHEN 4 OR MORE CURRENT CARRYING CONDUCTORS ARE CARRIED IN THE SAME CONDUIT PER THE NEC.
3. THE DISTANCES IN THIS TABLE ARE TOTAL DISTANCES, NOT HORIZONTAL DISTANCES. INCLUDE VERTICAL RUNS AND JUNCTION BOX COIL LENGTH IN THE TOTAL CONDUCTOR DISTANCE.
4. WHEN MORE THAN ONE CIRCUIT IS IN THE CONDUIT, USE ONLY ONE SHARED EQUIPMENT GROUND CONDUCTOR.

volta

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New York

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REV	DATE	DESCRIPTION	BY
1	04/01/2022	CD100s	TAS

ISSUE DATE
04/01/2022

ISSUED FOR
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STAPLES PLAZA
3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598

SHEET TITLE
ELECTRICAL ONE
LINE DIAGRAM &
PANEL SCHEDULE

SHEET NUMBER
E1-00

NOTES:

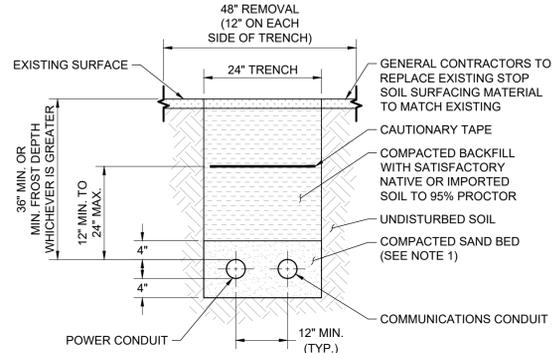
1. A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART110.3.
2. ALL EXTERIOR EQUIPMENT SHALL BE RAIN TIGHT AND APPROVED FOR USE IN WET CONDITIONS.
3. ALL CONDUCTORS SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO ENCLOSURES.
4. EACH UNGROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER ART 210.5.
5. ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA EQUIPMENT GROUNDING CONDUCTORS.
6. CHARGING UNITS ARE EQUIPPED WITH AN INTEGRATED CONTACTOR TO PREVENT BACK FEEDING OF POWER TO THE SOURCE.

ABBREVIATIONS:

- A AMPERE
- AC ALTERNATING CURRENT
- AL ALUMINUM
- ART ARTICLE
- AUX AUXILIARY
- BLDG BUILDING STRUCTURE
- CONC CONCRETE
- CU COPPER
- DC DIRECT CURRENT
- EGC EQUIPMENT GROUNDING CONDUCTOR
- (E) EXISTING
- EMT ELECTRIC METALLIC TUBING
- EV ELECTRIC VEHICLE
- EVSE ELECTRIC VEHICLE SUPPLY EQUIPMENT
- GALV GALVANIZED
- GND GROUND
- HDG HOT DIPPED GALVANIZED
- I CURRENT
- KVA KILOVOLT AMPERE
- KW KILOWATT
- M METER
- MAX MAXIMUM
- MIN MINIMUM
- N NEUTRAL
- NEC NATIONAL ELECTRIC CODE
- NTS NOT TO SCALE
- (N) NEW
- OC ON CENTER
- PL PROPERTY LINE
- PVC POLYVINYL CHLORIDE
- RMC RIGID METALLIC CONDUIT
- SCH SCHEDULE
- SS STAINLESS STEEL
- TYP TYPICAL
- V VOLT
- W WATT
- XFMR TRANSFORMER

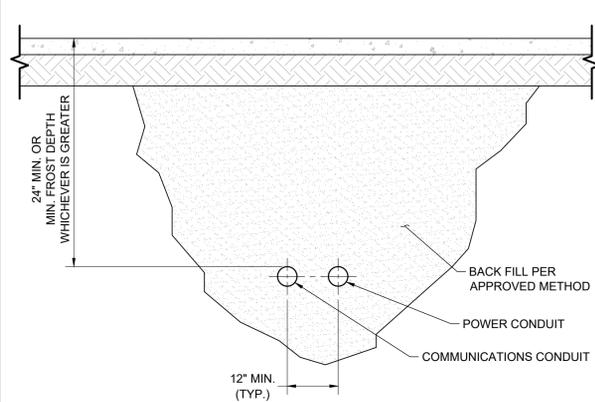
ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
3. CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.



NOTES:

1. LEAN CONCRETE RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.
2. BURY CONDUITS 36\"/>



NOTE:

1. EXACT CONDUIT DIAMETERS MAY VARY UPON INSTALLATION. REFERENCE CONDUIT SIZE PER THE CONDUIT SCHEDULE.

POWER TRENCH

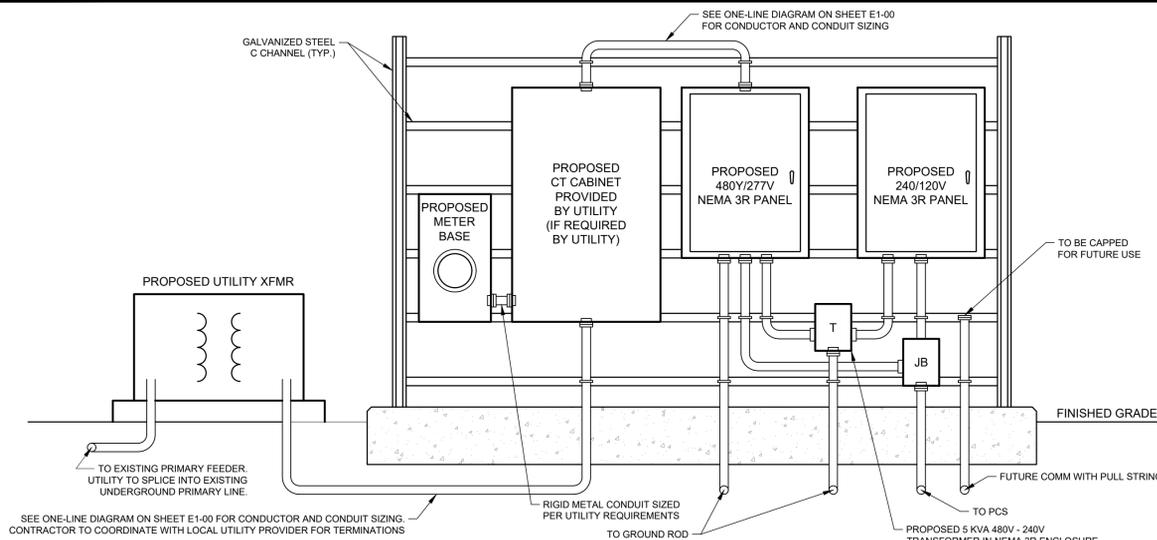
SCALE N.T.S. 2

BORE SECTION

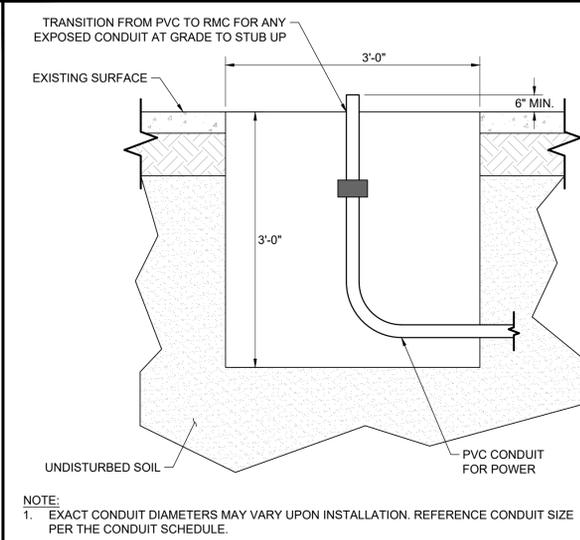
SCALE N.T.S. 3

NOT USED

SCALE N.T.S. 4



NOT USED



NOTE:

1. EXACT CONDUIT DIAMETERS MAY VARY UPON INSTALLATION. REFERENCE CONDUIT SIZE PER THE CONDUIT SCHEDULE.

ELECTRICAL NOTES & ABBREVIATIONS

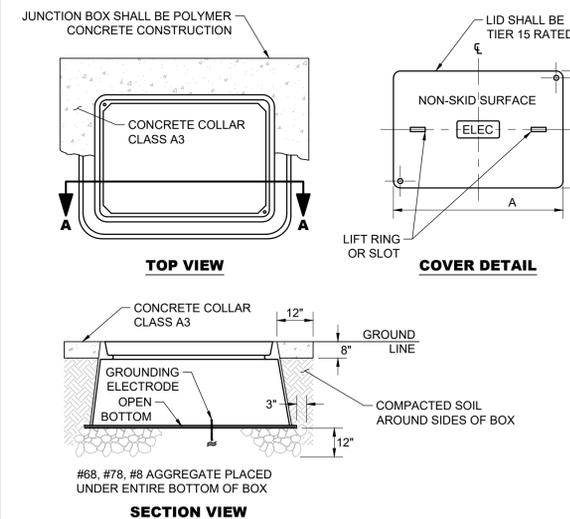
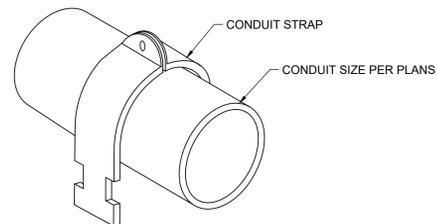
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H-FRAME DETAIL

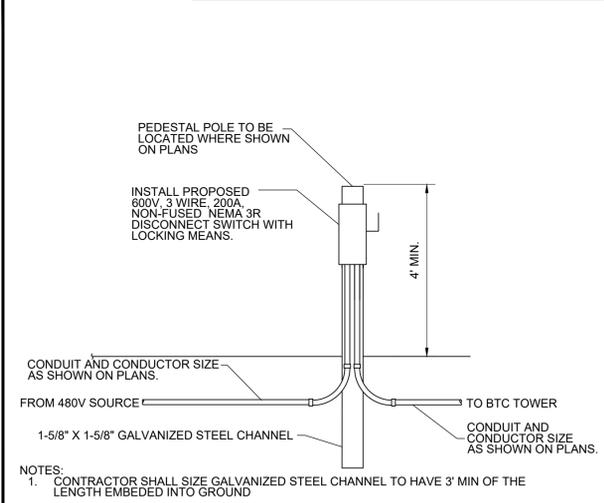
SCALE N.T.S. 5

BORE PIT

SCALE N.T.S. 6



FOR REFERENCE ONLY, DESIGNED AND PROVIDED BY OTHERS



NOTES:

1. CONTRACTOR SHALL SIZE GALVANIZED STEEL CHANNEL TO HAVE 3\"/>

NOT USED

SCALE N.T.S. 7

UNISTRUT CONDUIT MOUNT STRAP

SCALE N.T.S. 8

NON-TRAFFIC RATED JUNCTION BOX

SCALE N.T.S. 9

BTC POLE DISCONNECT SWITCH

SCALE N.T.S. 10

volta

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New York

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STAPLES PLAZA

**3379 CROMPOUND ROAD
YORKTOWN HEIGHTS, NY
10598**

SHEET TITLE

**ELECTRICAL
NOTES & DETAILS**

SHEET NUMBER

E2-00

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES