



**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT NAME: SUNSHINE FORD EV CHARGING STATION
PROJECT NO.: 23-18
PROJECT LOCATION: SECTION 99, BLOCK 47, LOT 23.22
REVIEW DATE: 14 JUNE 2024
MEETING DATE: 20 JUNE 2024
PROJECT REPRESENTATIVE: CHARGE SMART EV/BRIDGET OCONNER

1. The project was submitted to the Orange County Planning Department on 6 May 2024. Project was awaiting response from County Planning or the project being timed out on the 30 day review.
2. The Planning Board should discuss whether a Public Hearing for the minor Site Plan change is required.
3. This office would recommend a Negative Declaration for the Unlisted Action.

Respectfully submitted,

MHE Engineering, D.P.C.

A handwritten signature in dark ink, appearing to read 'Patrick J. Hines', written in a cursive style.

Patrick J. Hines
Principal
PJH/kbw

NEW YORK OFFICE

33 Airport Center Drive, Suite 202, New Windsor, NY 12553
845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

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ChargeSmart EV

April 18, 2024

Attn: Planning Board

Town of Newburgh

21 Hudson Valley Professional Plaza

Newburgh, NY 12550

Ref: Electric Vehicle Charging Stations at Sunshine Ford

Dear Planning Board/Code Compliance Dept:

ChargeSmart EV is submitting the documents necessary to review an Electric Vehicle Charging Station project we are proposing at the Sunshine Ford Car Dealership located at 40 NY-17K Newburgh, NY 12550. This project was previously submitted to the board for review in May of 2023. The customer then put the project on hold due to changing corporate requirements at Ford. We are now ready to re-engage the project with one less DCFC Fast charger.

The documents included in this revision include a survey/site map and our stamped engineer drawings.

Please contact me with questions or if additional information is required.

Regards,

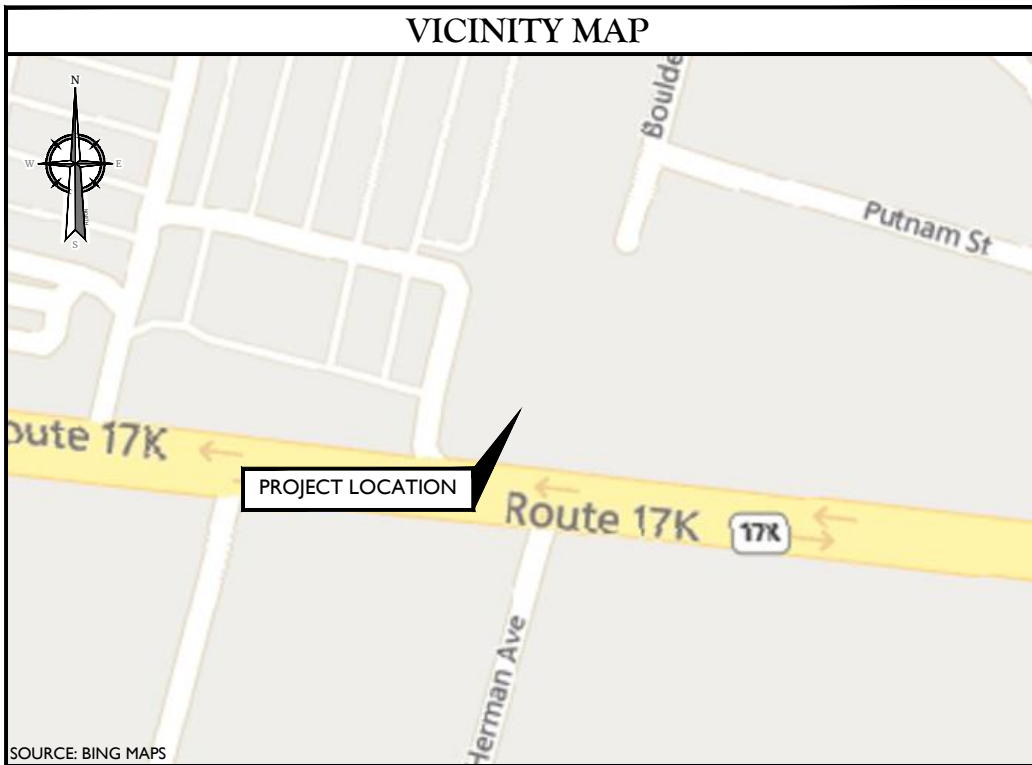
Bridget O'Connor

Bridget O'Connor

607-220-6014 or bridget@chargesmartev.com

PROJECT NOTES

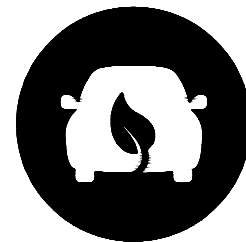
- I. SITE INFORMATION OBTAINED FROM THE FOLLOWING:
 - A. COLLIERS ENGINEERING & DESIGN DID NOT VISIT THE SITE TO VERIFY EXISTING CONDITIONS. ANY CONFLICT WITH PROPOSED DESIGN MUST BE DISCUSSED WITH CONSTRUCTION MANAGER.
 - B. A SURVEY HAS NOT BEEN CONDUCTED BY COLLIERS ENGINEERING & DESIGN. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
 - C. AMENDED SITE DEVELOPMENT PLAN AND DETAILS ENTITLED "NEW ADDITION FOR COLANDREA SUNSHINE FORD LINCOLN" PREPARED BY SHAW ENGINEERING CONSULTING ENGINEERS OF NEWBURGH, NY LAST REVISED 09/26/16.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. THE PROPOSED FACILITY WILL COMPLY WITH ALL STATE AND LOCAL STORMWATER ORDINANCES.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
12. CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
13. CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.



CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

1. 2020 BUILDING CODE OF NYS, INCORPORATING THE 2018 IBC	8. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 IEEE C2 LATEST EDITION
2. 2017 NEC	9. TELCORDIA GR-1275
3. 2020 NYS FIRE CODE	10. ANSI T1.31 I
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-16	11. PROPOSED USE: ELECTRIC VEHICLE CHARGING
5. AMERICAN CONCRETE INSTITUTE	12. SECTION 625 OF THE NATIONAL ELECTRICAL CODE (NFPA 70)
6. CONSTRUCTION TYPE: S-2	
7. USE GROUP: M	



ChargeSmart EV

SITE NAME:
SUNSHINE FORD

40 NY-17K
NEWBURGH, NY 12550
ORANGE COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 41.503695° (GOOGLE EARTH)
 LONGITUDE: -74.058025° (GOOGLE EARTH)
 GROUND ELEVATION: 297± AMSL (GOOGLE EARTH)
 JURISDICTION: TOWN OF NEWBURGH
 COUNTY: ORANGE COUNTY

APPLICANT

COMPANY: CHARGESMART EV
 ADDRESS: 5 SOUTHSIDE DRIVE, SUITE 11-184
 CITY, STATE, ZIP: CLIFTON PARK, NY 12065

PROPERTY OWNER

OWNER: 40 ROUTE 17K LLC
 ADDRESS: PO BOX 3257
 CITY, STATE, ZIP: NEWBURGH, NY 12550

ENGINEERING COMPANY

COMPANY: COLLIERS ENGINEERING & DESIGN, INC
 ADDRESS: 2000 MIDLANTIC DRIVE, SUITE 100
 CITY, STATE, ZIP: MT. LAUREL, NJ 08054
 CONTACT: STEPHANIE MULHERN
 OWNES: (856) 797-0412
 E-MAIL: STEPHANIE.MULHERN@COLLIERSENG.COM

SCOPE OF WORK

- SUPPLY AND INSTALL (1) UTILITY POLE
- SUPPLY AND INSTALL POLE MOUNTED TRANSFORMERS
- SUPPLY AND INSTALL (1) PANEL BOARD & (1) SUB PANEL BOARD
- SUPPLY AND INSTALL (1) METER/DISCONNECT
- SUPPLY AND INSTALL (2) 120kW ELECTRIC VEHICLE CHARGERS
- SUPPLY AND INSTALL (3) 19.2kW ELECTRIC VEHICLE CHARGERS
- SUPPLY AND INSTALL (3) CONCRETE PADS
- SUPPLY AND INSTALL (4) 14-50 NEMA OUTLETS
- SUPPLY AND INSTALL REQUIRED CONDUIT/WIRING
- PROVIDE TRENCHING/RESTORATION AS REQUIRED

SHEET INDEX

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ChargeSmart EV

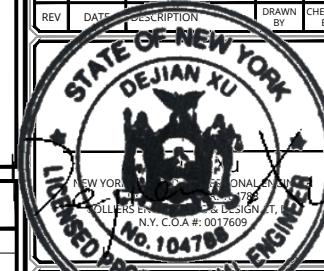


PROTECT YOURSELF
 ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT:
 WWW.CALL811.COM

SCALE: AS SHOWN JOB NUMBER: 23902012

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	04/16/24	ISSUED FOR CONSTRUCTION	RMD	DX
A	03/19/24	ISSUED FOR REVIEW	RMD	DX



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED. DATE: 04/17/2024

SITE NAME:

SUNSHINE FORD
 40 NY-17K
 NEWBURGH, NY 12550
 ORANGE COUNTY



MT. LAUREL
 2000 Midlantic Drive,
 Suite 100
 Mt. Laurel, NJ 08054
 Phone: 856.797.0412
 COLLIERS ENGINEERING & DESIGN,
 ARCHITECTURE, LANDSCAPE ARCHITECTURE,
 SURVEYING, C.T., P.C.

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

DESIGN CRITERIA

1. **NOTABLE CODE ITEMS:**
 - 1.1. WHERE PROVIDED, ELECTRIC VEHICLE CHARGING STATIONS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70. ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 2202. ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 2594.
2. **NFPA-70 NATIONAL ELECTRIC CODE:**
 - 2.1. ALL WORK WITHIN THESE DRAWINGS SHALL ADHERE TO NEC 625 ELECTRIC VEHICLE CHARGING SYSTEM.

625.1 SCOPE

- THIS ARTICLE COVERS THE ELECTRICAL CONDUCTORS AND EQUIPMENT EXTERNAL TO AN ELECTRIC VEHICLE THAT CONNECTS AN ELECTRIC VEHICLE TO A SUPPLY OF ELECTRICITY BY CONDUCTIVE, INDUCTIVE, OR WIRELESS POWER TRANSFER (CONTACTLESS INDUCTIVE CHARGING) MEANS, AND THE INSTALLATION OF EQUIPMENT AND DEVICES RELATED TO ELECTRIC VEHICLE CHARGING.
- INFORMATIONAL NOTE NUMBER 1: FOR INDUSTRIAL TRUCKS, SEE NFPA 505-2013, FIRE SAFETY STANDARD FOR POWERED INDUSTRIAL TRUCKS INCLUDING TYPE OF DESIGNATIONS, AREAS OF USE, CONVERSIONS, MAINTENANCE AND OPERATION.
- INFORMATIONAL NOTE NUMBER 2: UL 2594-2013, STANDARD FOR ELECTRIC VEHICLE SUPPLY EQUIPMENT, IS A SAFETY STANDARD FOR CONDUCTIVE ELECTRIC VEHICLE SUPPLY EQUIPMENT. UL 2202-2009, STANDARD FOR ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT, IS A SAFETY STANDARD FOR CONDUCTIVE ELECTRIC VEHICLE CHARGING EQUIPMENT.

GENERAL ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE TYPE-WRITTEN SCHEDULES OF ALL CIRCUITRY IN ALL PANELS. SCHEDULES SHALL MATCH THE LOADS SHOW IN THE PROJECT PANEL SCHEDULE INCLUDED IN THESE DRAWINGS. ALL SPARE PANEL SPACES SHALL BE FULLY PROTECTED WITH METAL BLANKS.
2. ELECTRICAL DEVICES, MATERIALS AND PACKAGED EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UNDERWRITERS LABORATORIES INC. (UL), FOR THE INTENDED USE, AND SHALL BEAR ITS LABEL. NOTE THAT THE NRTL APPROVAL OF INDIVIDUAL COMPONENTS OF PACKAGED EQUIPMENT DOES NOT CONSTITUTE APPROVAL OF THE ENTIRE PACKAGE.
3. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NFPA) AND THE BUILDING CODE REFERENCED ON SHEET T-1.
4. OWNER IS TO PAY FOR ALL REQUIRED FEES AND THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO OWNER PRIOR TO THE COMPLETION OF THE PROJECT.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS, NOT NECESSARILY DETAIL ON THESE DRAWINGS, TO RENDER THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIVE, AND IN COMPLIANCE WITH APPLICABLE CODES.
6. ALL WIRING SHALL BE COPPER CONDUCTOR, MINIMUM SIZE #12 AWG, UNLESS OTHERWISE NOTED..
7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING EQUIPMENT AND NOTE CONDITIONS AND AREAS WHERE WORK WILL OCCUR IN THE FIELD.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AND MEET ALL REQUIREMENTS OF SERVING UTILITY COMPANY.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT LOCATIONS, WIRING DEVICES AND LIGHTING WITH ENGINEER PRIOR TO INSTALLATION.
10. ELECTRICAL CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO COMMENCING INSTALLATION.
11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH ELECTRICAL WORK.
12. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR AGREES TO REPLACE ANY DEFECTIVE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER FOR THE DURATION OF THE GUARANTEE PERIOD.
13. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, EXCAVATION AND BACKFILL ASSOCIATED WITH THE ELECTRICAL WORK. PRIOR TO PERFORMING ANY EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.
14. CONTRACTOR SHALL PROTECT EXISTING ASPHALT PARKING LOTS, DRIVEWAYS AND CONCRETE CURBING THROUGHOUT THE PROJECT DURATION. CONTRACTION TO REPAIR PARKING LOTS, DRIVEWAY AND CURBING DAMAGED AS A RESULT OF ELECTRICAL WORK. REPAIRS SHALL MATCH EXISTING CONDITIONS OF BETTER.
15. SITE RESTORATION - WHERE AND AS INDICATED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL REPLACE ALL SURFACED DISTURBED AND SHALL RESTORE PAVING, CURBING, SIDEWALKS, DRIVEWAYS, SHRUBBERY, GRASS AREAS AND ALL OTHER SURFACES DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE WORK BEGAN, FURNISHING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY THERETO. THE CONTRACTOR SHALL, AT SAID CONTRACTOR'S OWN EXPENSE AND THE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, CLEAN UP AND CORRECT UNSIGHTLINESS, INCONVENIENCE, HAZARD OR DAMAGE CAUSED BY WATER, MUD, STONES, DUST, RUBBISH, CONSTRUCTION DEBRIS, TRAFFIC, WORKMEAN OR THE GENERAL OPERATIONS. WHEEL TRACKS, PATHS, PUDDLES, DAMAGED GROWTH, RAGGED EDGES, UNDESIRABLE SPOIL FROM EXCAVATION AND ROUGH SLOPES ARE TO BE REMOVED, OBLITERATED, CORRECTED, GRADED, LEVELED, PATCHED OR SMOOTHED. ALL ADJACENT AREAS THAT HAVE BEEN DAMAGED OR THAT REQUIRE REGRADING SHALL BE SMOOTHED AND WORKED TO MAKE THE PROJECT AREA BLEND INTO EXISTING CONDITIONS. PROVIDE TOPSOIL, SEED AND MULCH WHERE REQUIRED FOR GRASS ESTABLISHMENT.

WIRING METHODS

1. ALL WIRING METHODS AND INSTALLATION PRACTICES SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LOCAL STATE CODES AND OTHER APPLICABLE LOCAL CODES.
2. SYSTEM CONDUCTORS SHALL BE RATED FOR 90° C, WET RATED, UV RESISTANT AND A MINIMUM OF 600V RATED.
3. SYSTEM CIRCUIT CONDUCTORS SHALL BE IDENTIFIED AT ALL TERMINATIONS, CONNECTIONS AND SPLICE POINTS AS REQUIRED PER NEC ARTICLE 690.31 (B) (1).
4. DC ELECTRICAL SYSTEM CONDUCTOR COLOR CONVENTIONS SHALL BE MARKED AS FOLLOWS:

DC CONDUCTOR MARKING CONVENTIONS			
	UNGROUND	SOLID GROUND	FUNCTIONAL GROUND
POSITIVE	RED	REF NEC ARTICLE 200 FOR GROUNDING CONDUCTOR JACKETING REQUIREMENTS	RED
NEGATIVE	BLACK		BLACK
GROUND	GREEN OR BARE	GREEN OR BARE	GREEN OR BARE

5. LOW VOLTAGE AC CONDUCTORS (<= 600V) MUST BE 600V AND 90° C RATED
6. THREE PHASE AC ELECTRICAL SYSTEM CONDUCTOR COLOR CONVENTIONS SHALL BE MARKED AS FOLLOWS:

AC CONDUCTOR MARKING CONVENTIONS			
	120/280V	277/480V & 347/600V	1000V <
PHASE A	BLACK	BROWN	BLACK
PHASE B	RED	ORANGE	RED
PHASE C	BLUE	YELLOW	BLUE
NEUTRAL	WHITE	GRAY	-
GROUND	GREEN	GREEN	GREEN OR BARE

7. ALL WIRES INSTALLED IN FREE AIR TO BE SECURED VIA MECHANICAL MEANS. CONDUCTORS TO BE SECURED IN A MANNER THAT ENSURES PROTECTION AGAINST ABRASION, SHARP EDGES AND POTENTIAL INSULATION DAMAGING ELEMENTS.
8. CONDUCTORS ROUTED OUT OF A CONDUIT SHALL BE SUPPORTED AND SECURED AT INTERVALS DEFINED BY THE NEC.
9. CONDUCTORS ROUTED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AS REQUIRED IN NEC 300.19.

GROUNDING NOTES

1. ALL ENCLOSURES AND NON-CURRENT CARRYING METALLIC PARTS OF THE ELECTRICAL SYSTEM, RACEWAY SYSTEMS AND EQUIPMENT GROUND BUSES SHALL BE GROUNDED TO THE GROUNDING SYSTEM VIA EQUIPMENT GROUNDING CONDUCTORS (EGC). GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT.
2. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC 250.122.
3. GROUNDING RODS SHALL BE 10'-0" LONG 3/4"Ø COPPER CLAD UNLESS OTHERWISE SPECIFIED.
4. GROUND RODS, GROUNDING ELECTRODE CONDUCTORS AND CONNECTIONS TO BE MADE A MINIMUM OR 30" BELOW GRADE UNLESS OTHERWISE SPECIFIED.

CONDUIT, CABLE TRAY AND RACEWAY NOTES

1. CONDUIT AND CABLE ROUTES ARE DIAGRAMMATIC AND REQUIRE CONTRACTOR FIELD VERIFICATION. SIGNIFICANT DEVIATION FROM THE PROPOSED ROUTE MUST BE COORDINATED PRIOR TO INSTALLATION.
2. WHERE CIRCUIT ROUTING IS NOT SHOWN AND THE DESTINATION IS INDICATED, THE CONTRACTOR SHALL DETERMINE AND COORDINATE THE EXACT ROUTE PRIOR TO INSTALLATION.
3. ALL OUTDOOR CONDUIT SHALL HAVE RAIN-TIGHT CONNECTORS AND COUPLINGS.
4. IN ADDITION TO THOSE SHOWN IN THE DRAWINGS, CONTRACTOR SHALL DETERMINE AND PROVIDE ENCLOSURES AS NECESSARY TO FACILITATE THE INSTALLATION OF WIRING. BENDS IN CONDUIT BETWEEN PULL BOXES SHALL NOT EXISTING 360° OF BED.
5. PULL AND JUNCTION BOXES SHALL BE SIZED IN COMPLIANCE WITH NEC ARTICLE 314.
6. CONDUIT TO BE ROUTED IN A MANNER THAT DOES NOT OBSTRUCT EQUIPMENT WORKING CLEARANCES AND ACCESSIBILITY.
7. ALL OUTDOOR RATED ENCLOSURES SHALL BE NEMA 3R.
8. WHEN TRANSITIONING FROM FREE AIR TO CONDUIT, A LISTED FITTED SHALL BE USED TO PREVENT THE ENTRY OF MOISTURE.



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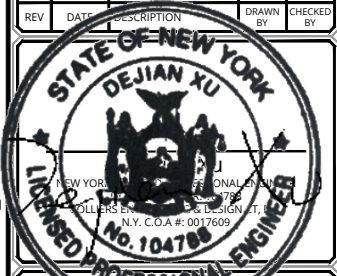


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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN JOB NUMBER: 23902012

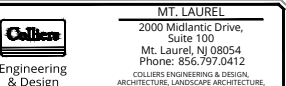
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	04/16/24	ISSUED FOR CONSTRUCTION	RMD	DX
A	03/19/24	ISSUED FOR REVIEW	RMD	DX



UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE ALTERNATE DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

SUNSHINE FORD
40 NY-17K
NEWBURGH, NY 12550
ORANGE COUNTY



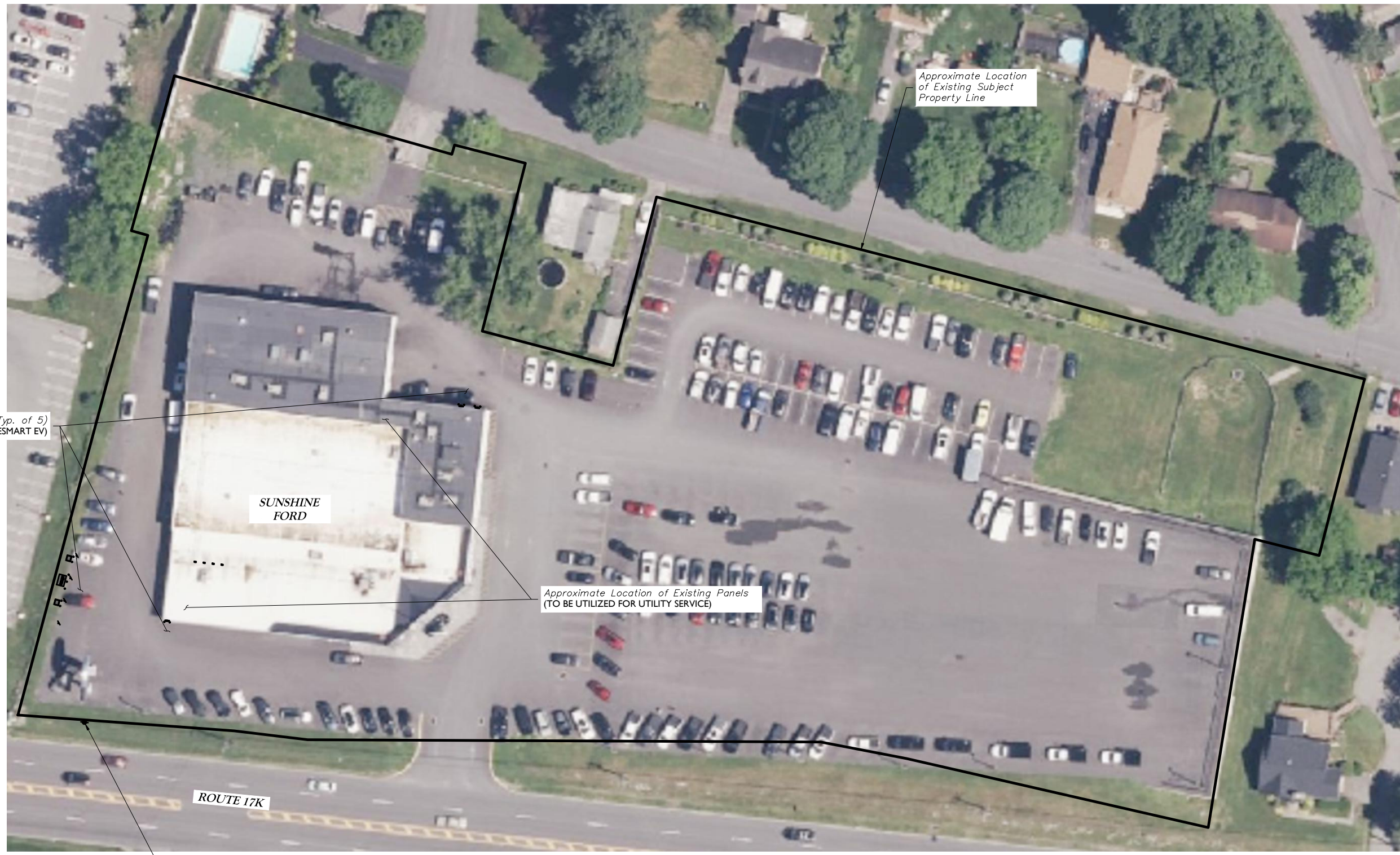
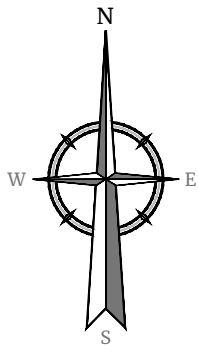
MT. LAUREL
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Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING, ETC., P.C.

PROJECT NOTES

SHEET NUMBER: **GN-1**

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



SITE PLAN

30 24 18 12 6 0 6 12 18 24 30 60

SCALE : 1" = 30' FOR 22"X35"
 (SCALE : 1" = 60' FOR 11"X17")

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ChargeSmart EV



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SITE NAME:

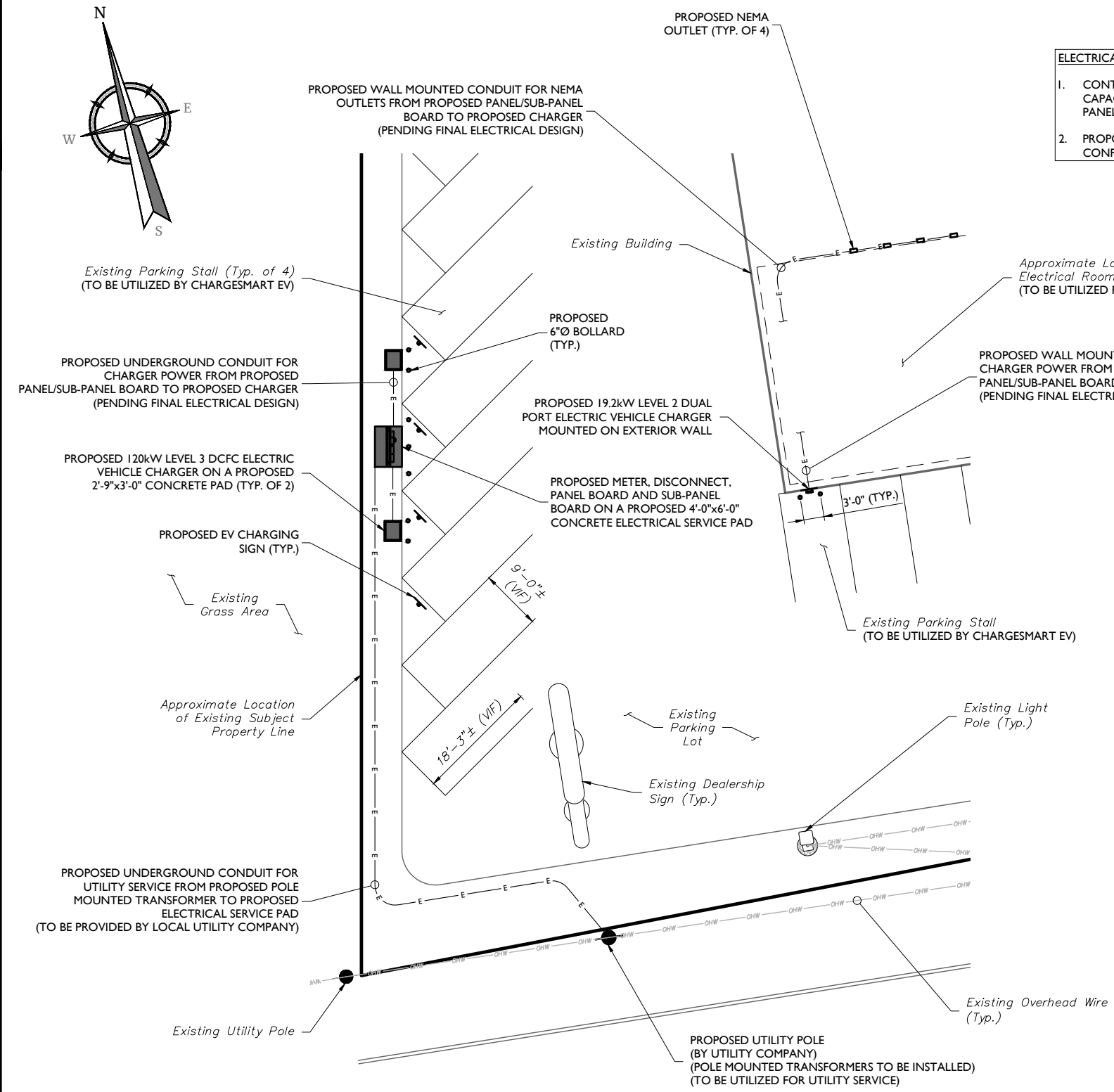
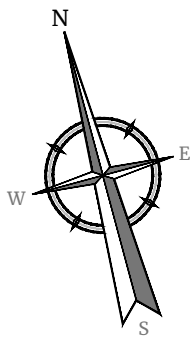
SUNSHINE FORD
 40 NY-17K
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 ORANGE COUNTY

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 Phone: 856.797.0412
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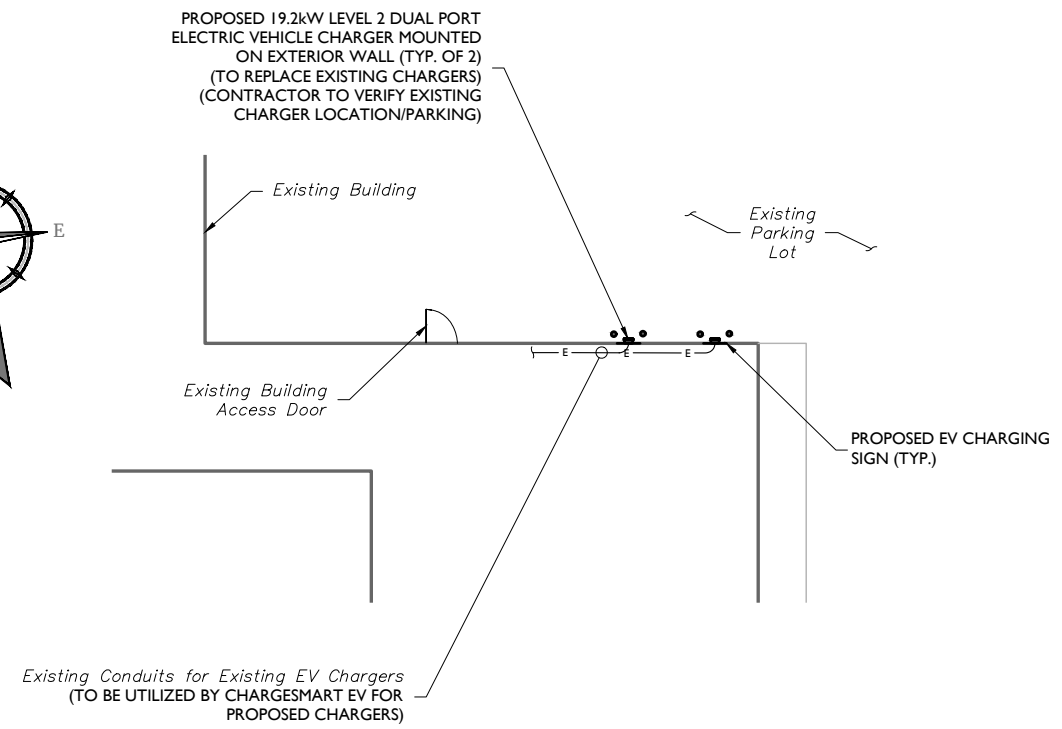
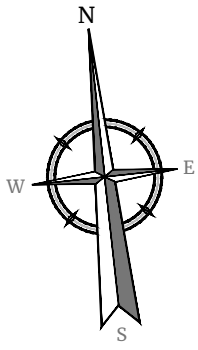
SITE PLAN

C-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



- ELECTRICAL SCOPING NOTES:**
1. CONTRACTOR TO VERIFY LOCATION AND CAPACITY OF EACH EXISTING ELECTRICAL PANEL IN THE ELECTRICAL ROOM.
 2. PROPOSED CONDUIT AND WIRE SIZE TO BE CONFIRMED PRIOR TO CONSTRUCTION.



ChargeSmart EV



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SCALE: AS SHOWN JOB NUMBER: 23902012

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	04/16/24	ISSUED FOR CONSTRUCTION	RMD	DX
A	03/19/24	ISSUED FOR REVIEW	RMD	DX



UNLESS INDICATED OTHERWISE, ALL DIMENSIONS ARE IN FEET AND INCHES. THE PROFESSIONAL ENGINEER'S SEAL IS REQUIRED TO ALTER THIS DOCUMENT.

SITE NAME:

SUNSHINE FORD
40 NY-17K
NEWBURGH, NY 12550
ORANGE COUNTY



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2000 Midlantic Drive,
Suite 100
Mt. Laurel, NJ 08054
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PARTIAL SITE PLAN

C-2

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NEWBURGH, NY 12550
ORANGE COUNTY



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SHEET TITLE: PROJECT DETAILS

SHEET NUMBER: A-1

COMMERCIAL ENERGY SERIES: 80A
OVERVIEW



CABLE RETRACTOR

- Optional cable retractor extends the life of the cables by elevating them off the ground, while also creating a safe environment by reducing tripping hazards

MULTIPLE MODELS

- Open Access Control**
Non-networked common for residential and fleet use
- RFID Access Control**
Non-networked model with RFID-card access control
- Ethernet**
- Cellular**
- Networked**
When connected to a backend software plan, it unlocks features such as point of sale payment, usage data reporting, driver notifications, remote diagnostics, and more

UL-Listed meets safety criteria for use in North America

Meets standards for Americans with Disabilities Act

LEVEL 2 CHARGING STATION

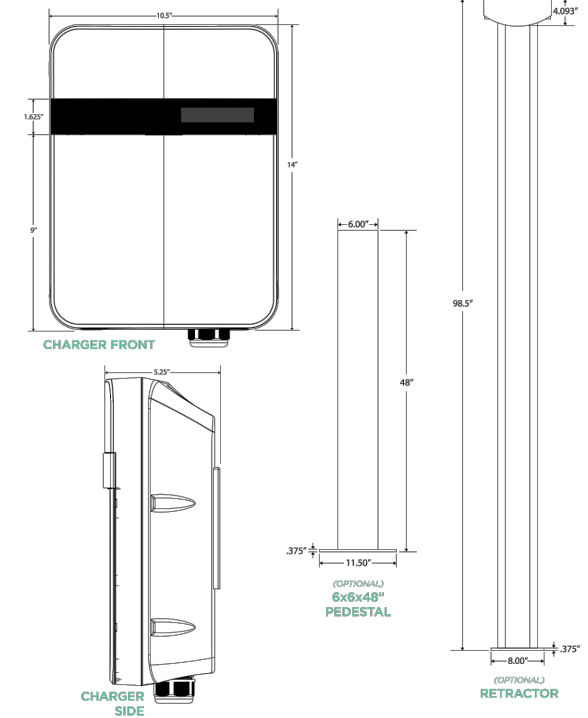
- Outdoor rated with multiple mounting configurations
- Largest & fastest Level 2 AC charging station on the market today
- Adjustable Max 80A / 19.2kW output allows for the ideal power to match your supply panel, electric vehicle, and driving range
- 3-Year Parts Warranty (5-Year Parts & Labor optional)

MOUNT CONFIGURATIONS



5 Southside Dr. Suite 11-184 | Clifton Park, NY 12065 | info@ChargeSmartEV.com | 585-943-9980

COMMERCIAL ENERGY SERIES: 80A
DIMENSIONS



5 Southside Dr. Suite 11-184 | Clifton Park, NY 12065 | info@ChargeSmartEV.com | 585-943-9980

COMMERCIAL ENERGY SERIES: 80A
PRODUCT SPECIFICATIONS



CONFIGURATION	OPEN-ACCESS	RFID ACCESS / WI-FI	NETWORKED
APPLICATION	COMMERCIAL		
VOLTAGE (VAC)	208/240VAC, Single Phase		
FREQUENCY (HZ)	50Hz / 60Hz		
CURRENT (RMS)	Adjustable Max 80A / 19.2kW		
CIRCUIT BREAKER	80A = 100A		
CHARGING CONNECTOR	SAE J1772 Type 1		
CHARGING CABLE LENGTH	25 ft. (8 ft. optional)		
	UL E345899 EVE		
	2/C 5 AWG (16.8mm ²) 1/C 6AWG (13.3mm ²) 1/C 16AWG (1.31mm ²) 105°C Water Resistant 60°C 600V		
METERING ACCURACY	Embedded ±1% (internal)		
REAL-TIME CLOCK	N/A	Yes	
WI-FI	N/A	802.11 b/g/n	
CELLULAR	N/A	LTE Cat.M1/Cat.NB1oT	
RFID	N/A	ISO 14443 A/B ISO 152693 NFC	
DISPLAY	N/A	116(L) x 8.5(W) x 37(H)mm 5.57mm CHARACTER HEIGHT 5"8 DOT MATRIX OLED 20x2	
DATA PROTOCOL	N/A	OCPP 1.6	
OPERATION TEMPERATURE	-35°C to 55°C / -31°F to 131°F (55°C / 131°F current derating limit maximum 60A)		
STORAGE TEMPERATURE	-40°C to 80°C / -40°F to 176°F		
MOUNTING TYPE	Wall Mount / Pedestal Mount (optional)		
WIRING TYPE	Handwired		
IP PERFORMANCE	NEMA 3R		
IMPACT RESISTANCE	IK10		
DIMENSION (HxWxD, INCHES)	14 x 10.5 x 5.25		
WEB PORTAL MANAGEMENT	N/A	Yes	
CERTIFICATION	UL 50 / 991 / 1449 / 1998 / 2231 / 2594 FCC Part 15B		
SAFETY	cULus Listed		
PEDESTAL CONSTRUCTION	Aluminum, Powder-Coat Finish, Stainless Steel Hardware		
WARRANTY	3 Year Parts Warranty (5 Year Parts & Labor Optional)		

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CHARGESMART 19.2kW EV CHARGER (LEVEL 2)
(SINGLE OR DUAL PORT)
NOT TO SCALE

MAXI CHARGER DC FAST
MOST FLEXIBLE LEVEL 3 DC FAST CHARGER

Smart Charging allows DLB to be set and adjusted remotely through the Cloud or locally at the charger to ensure the output loads never exceed the systems capabilities.

Supports ISO 15118 Plug & Charge, enables hassle-free charging operations and identity authentication

Smart Cloud & OCPP enable the site host with full control and visibility of your entire network

Charging power up to 240kW. The modular design can provide charging power ranging from 60kW to 240kW, meeting the needs of different scenarios and later upgrades

Charger peak efficiency up to 96%. The original efficiency optimization algorithm supports up to 95% efficiency within a load range of 20-100%

21 safety monitoring items, with hardware + software dual protection



POWERFUL
Charge faster and more efficiently
+ Up to 140 kW of fast charging
+ Charging speed improved by up to 30% with boost mode

SMART ADVERTISING AND COMMUNICATION PORTAL
Improve your ROI
+ Show the charging missed into the State of Charge (SOC), Cost, kWh
+ Offer an additional channel to boost revenue with the display of advertisements

HIGHLY RELIABILITY
Charge without worries
+ Continually testing and evaluating new vehicle for interoperability
+ Compatible with all vehicles of IEC standards

27-inch HD advertisement screen, supporting both videos and pictures for brand promotion

Compatible with CCS1, CCS2, CHAdeMO or CHAdeMO

POE machine optional, various payment methods

Optional cable length: 4m, 5m & 6m

Customizable charging power from 40kW to 240kW (Each charging module is 20kW)

DC Output Connection		AC Input Connection	
Charging mode	Mode 4, CCS1	Earthing system	SP, PE (No neutral)
Output power	60kW/120kW/180kW/240kW	Input voltage	3-phase 480V AC±10%±15%
Output voltage	150 - 950V	Input frequency	60Hz
Output current	CCS1: Standard: 200A, Optional: 300A (Nominal), 400A (Peak) CHAdeMO: 125A or 200A	Power factor	>0.99
Number of outputs	2*CCS1 or 1*CCS1 + 1*CHAdeMO	Harmonic distortion (THD)	<0%
Peak efficiency	96%		
General Characteristics		User Interface	
Enclosure rating	NEMA 3R	Status indication	LED / LCD / APP
Operating altitude	2000m	User interface	Auto Charge APP, Auto Charge Cloud
Operating temperature range	-20° to +55° F (-4° to +13° C)	Connectivity	4G, Wi-Fi, Ethernet
Storage temperature range	-40° to +158° F (-40° to +70° C)	Communication protocols	OCPP 1.6J
Mounting	Floor Standing	User authentication	(Can be upgraded to OCPP 2.0.1 later) APP, RFID card, Credit card (Optional)
Dimensions (HxWxD)	1300x420x600 mm (50x16x23.6") 1950x420x700mm (76.8x16.5x27.6")		
Screen type	27 inch LCD touch screen (1900*1000)		
Cable length	4m Standard, 5m or 7m Optional		
Certification and Standards		Certification and Standards	
Safety and compliance	UL 2003, UL 2231-1, UL 2231-2, CSA No. 107-1-16, NEC Article 625, ISO 15118, FCC 15 Class A	Software Update	OTA updates via web portal
EMC compliance	FCC 15 Class A		
Warranty	24 months, warranty extension possible		

5 Southside Drive Suite 11-184
Clifton Park, NY 12065
chargesmartev.com
info@chargesmartev.com
1.888.717.4544

CHARGESMART 120kW EV CHARGER (LEVEL 3)
NOT TO SCALE



ChargeSmart EV

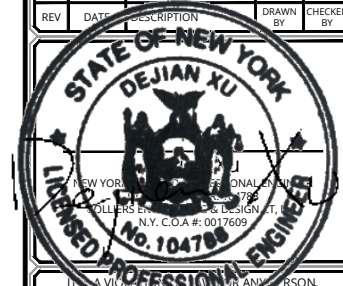


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SITE NAME:

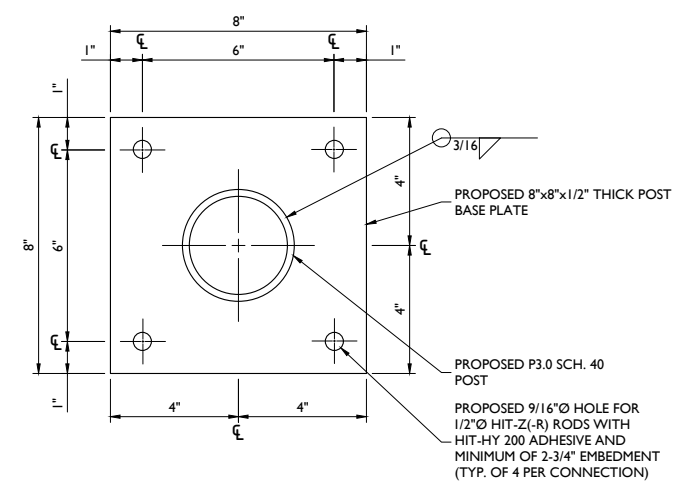
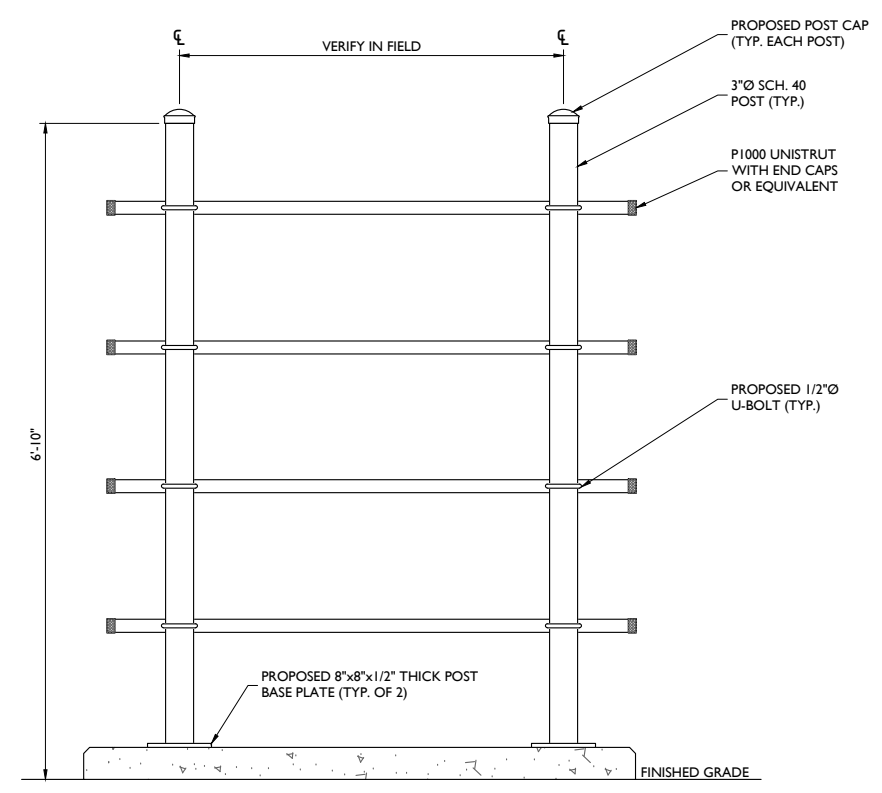
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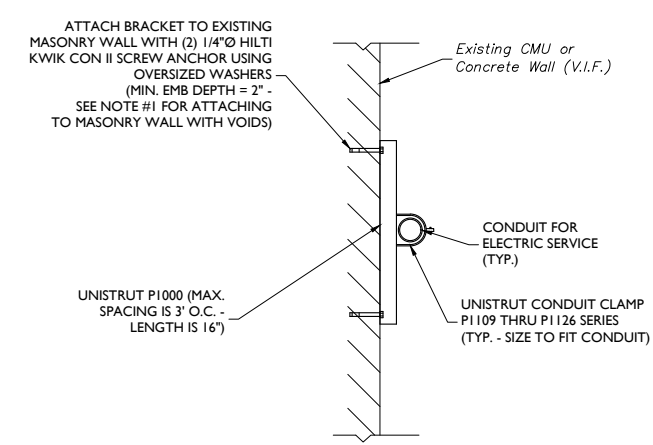
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PROJECT DETAILS

SHEET NUMBER: **A-2**

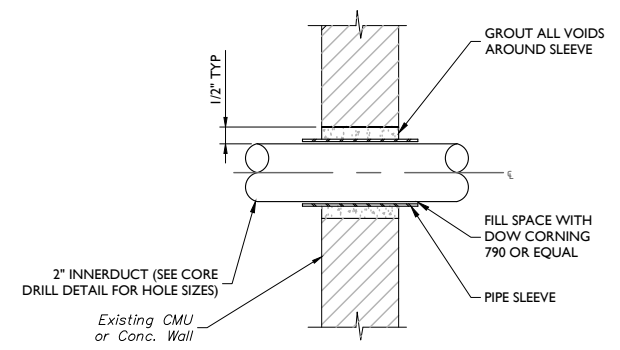


BACKBOARD DETAIL
NOT TO SCALE



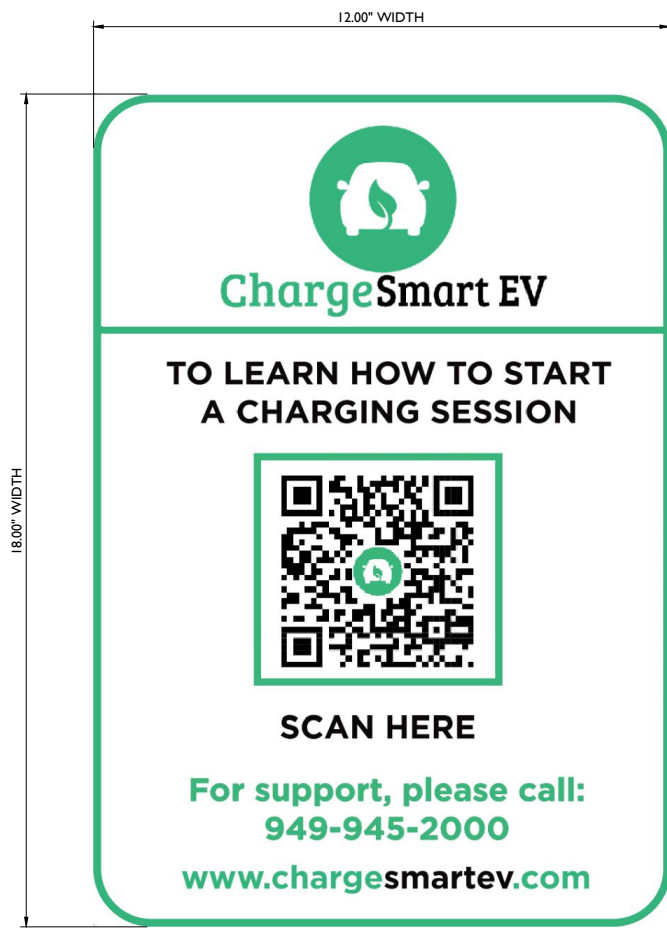
- NOTES:**
- CONTRACTOR SHALL VERIFY EXISTING WALL TYPE PRIOR TO CONSTRUCTION. IF THE EXISTING MASONRY WALL HAS VOIDS, THEN USE HILTI HIT-HY 270 ADHESIVE ANCHORS WITH 2" MIN. EMBEDMENT. CONTRACTOR SHALL FOLLOW INSTRUCTIONS FROM HILTI ANCHOR INSTALLATION MANUAL DURING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING STEEL REINFORCEMENT IN WALL PRIOR TO INSTALLING EXPANSION ANCHORS. NO HOLES SHALL BE DRILLED THAT WILL CAUSE DAMAGE TO ANY EXISTING WALL REINFORCEMENT.

UTILITY CONDUIT RUN
NOT TO SCALE

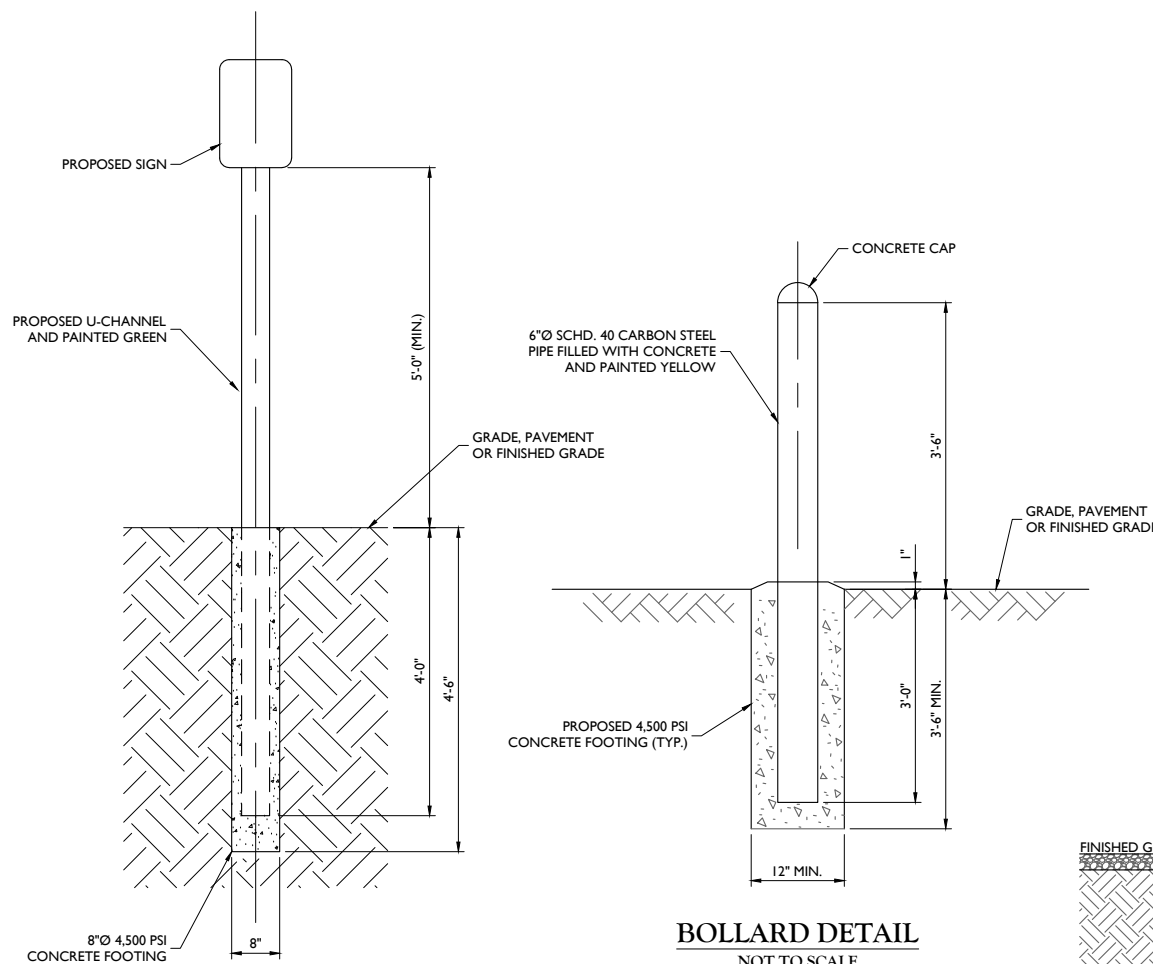


- NOTES:**
- PIPE ANCHORAGE IS REQUIRED NEARBY TO PREVENT PIPE MOVEMENT THRU PENETRATION.
 - CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING STEEL REINFORCEMENT IN WALL OR FLOOR SLAB PRIOR TO DRILLING FOR CONDUIT PENETRATIONS.

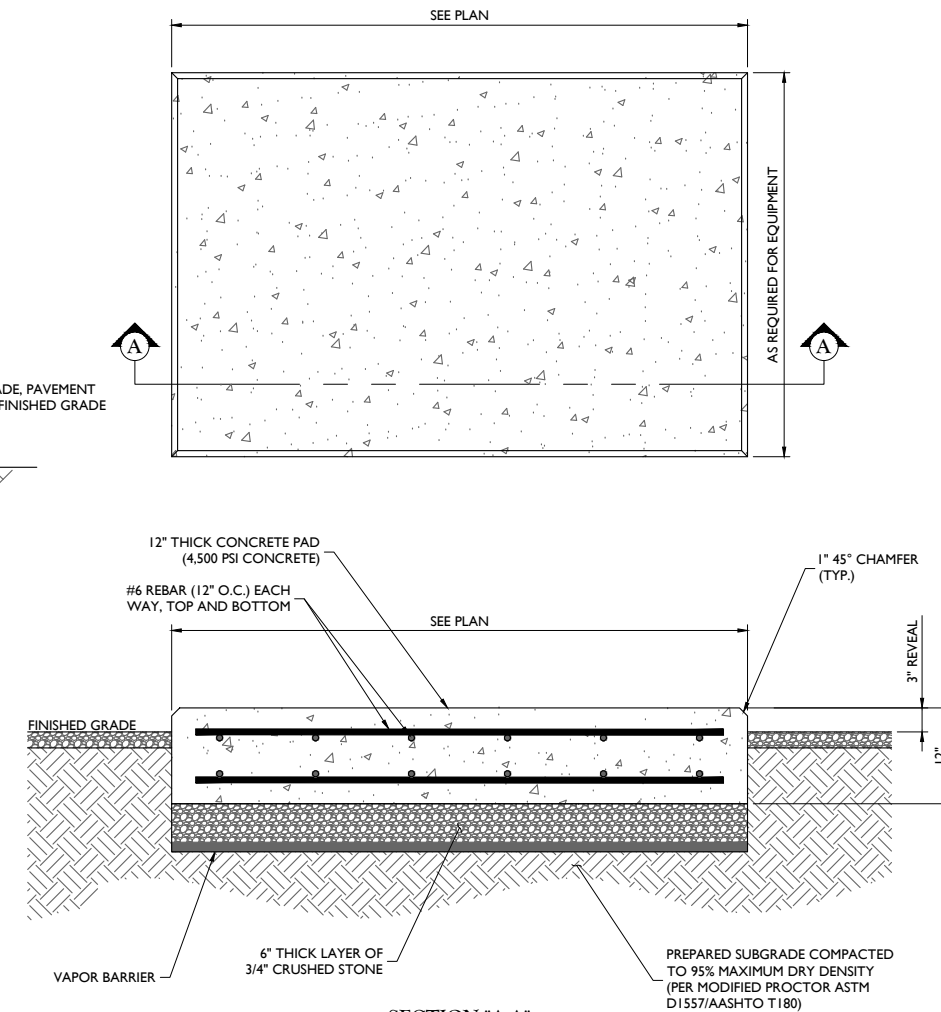
SECTION - PIPE PENETRATION AT CMU WALL
NOT TO SCALE



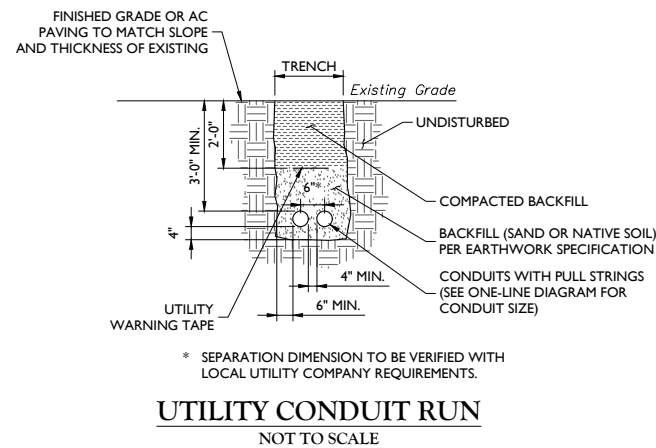
PARKING SIGN DETAIL
NOT TO SCALE



SIGN FOUNDATION DETAIL
NOT TO SCALE



CONCRETE EQUIPMENT PAD DETAILS
NOT TO SCALE



UTILITY CONDUIT RUN
NOT TO SCALE

DESIGN INFORMATION:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336A, ASTM A184, ASTM A185 AND THE DESIGN & CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. THE DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE AS SHOWN ON SHEET T-1.

EARTHWORK:

1. FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON (UNDISTURBED RESIDUAL SOILS/COMPACTED STRUCTURAL FILL), CAPABLE OF SAFELY SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF. IF FOUNDATION CONDITIONS PROVE UNACCEPTABLE AT ELEVATIONS SHOWN, EXCAVATION SHALL BE CARRIED DEEPER AND SHALL BE BACKFILLED WITH LEAN CONCRETE TO PLAN FOOTING BOTTOM, OR REDESIGN OF FOUNDATIONS WILL BE REQUIRED AT THE DIRECTION OF THE ENGINEER.

2. DESIGN FURNISH AND INSTALL TEMPORARY SHEETING, SHORING, AND DRAINAGE TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.

3. THOROUGHLY COMPACT ALL BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.

CONCRETE:

1. FORMWORK

1.a. CONCRETE CONSTRUCTION SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." (ACI 301-16).

1.b. FORMWORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

2. REINFORCEMENT

2.a. REINFORCING STEEL ASTM A615, GRADE 60, WELDED WIRE ASTM A185 (FLAT SHEET). LAPS 40 BAR DIAMETERS UNLESS NOTED. BARS SHALL BE SECURELY HELD IN ACCURATE POSITION BY SUITABLE ACCESSORIES, TIE BARS, SUPPORT BARS, ETC. HOOK LENGTHS SHALL BE 12 BAR DIAMETERS.

2b. CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.

2b.1. FOOTINGS AND SLABS CAST AGAINST GROUND	3"
2b.2. CONCRETE TO BE IN CONTACT WITH GROUND OR WEATHER AT BARS GREATER THAN 5"	2"
2b.3. AT BARS #5 OR LESS	1 1/2"
2b.4. CONCRETE NOT TO BE EXPOSED TO GROUND OR WEATHER BEAMS, GIRDERS, AND COLUMNS	1 1/2"
2b.5. SLABS AND WALLS	3/4"

2c. CAST IN PLACE CONCRETE

2c.1. MINIMUM 28 DAY CYLINDER STRENGTH AND MAXIMUM SLUMP, PRIOR TO ADDITION F SUPER PLASTICIZERS, AS FOLLOWS:		
2.c.1.1. CLASS I FOOTINGS	4500 PSI	3"
2.c.1.2. CLASS III INTERIOR ELEVATED SLABS AND WALLS	4000 PSI	4"
2.c.1.3. CLASS V OTHER WORK	4000 PSI	4"
2.c.1.4. CLASS VI LEAN CONCRETE FOR OVEREXCAVATION OF FOUNDATIONS	2000 PSI	N/A

2c.2. MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 5. NO CALCIUM CHLORIDE ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE

2c.3. COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57. COARSE AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C330 GRADED 3/4" TO 1/4".

2c.4. COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1

2c.5. HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R.

2c.6. CHAMFER ALL EXPOSED EDGES 3/4"

2c.7. THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85°F

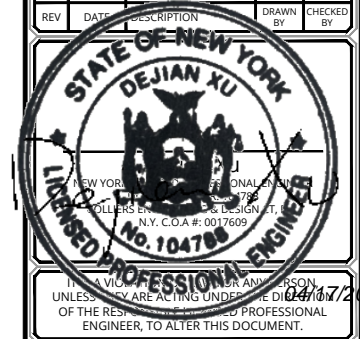
2c.8. TOTAL DELIVERY TIME SHALL BE LESS THAN 75 MINUTES.



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PROJECT DETAILS

SHEET NUMBER:
A-3