

**SPECIFICATIONS:
EV CHARGER & INFRASTRUCTURE
INSTALLATION
VILLAGE OF
HASTINGS-ON- HUDSON, NY**



Bids must be received by
February 17, 2023, at 10:00 A.M.

Village of Hastings-on-Hudson
7 Maple Avenue
Hastings-on-Hudson, NY 10706
Tel: (914) 478-3400
Fax: (914) 478-4624
Website: www.hastingsgov.org

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Specifications for EV Charger & Infrastructure Installation

NOTICE TO BIDDERS
EV CHARGER & INFRASTRUCTURE INSTALLATION

Sealed proposals for performing the work herein described will be received by the Village Board of Hastings-on-Hudson, New York, at the Office of the Village Clerk, Village Hall, 7 Maple Avenue, Hastings-on-Hudson, New York 10706, on February 17, 2023, at 10:00 A.M. and immediately thereafter the bids will be publicly opened and read aloud in said office.

The scope of work includes installing new electric service, conduit, and EV chargers at the Municipal Building. Specifications and Bid proposal forms may be obtained online at <https://www.hastingsgov.org/village-clerk/pages/legal-public-notices-bids-and-rfps> or by emailing the Village Clerk at acostantini@hastingsgov.org on January 20, 2023.

In addition to the above, the Village of Hastings-on-Hudson has partnered with BidNet as part of the Empire State Purchasing Group and will post our bid opportunities and any addendums to this site. As a vendor, you can register with Empire State Purchasing Group and be sure that you see all of the Village's available bids, addendums, and opportunities. Detailed plans and specifications for said bid may be obtained through the Empire State Purchasing Group at the following link: www.bidnetdirect.com/new-york/hastings-on-hudson.

Bids shall be made on the separate Bid Proposal Forms furnished with the Specifications.

Proposals shall be enclosed in a sealed envelope bearing the name and address of the Bidder, addressed to the Village of Hastings-on-Hudson, 7 Maple Avenue, Hastings-on-Hudson, New York and endorsed "EV Charger & Infrastructure Installation", Hastings-on-Hudson, New York. Bids may also be submitted electronically via BidNet.

The Village of Hastings-on-Hudson reserves the right to reject any and all Bids, to waive any informality in any Bid, and to award the Contract to other than the lowest Bidder if deemed in the best interest of the Village to do so.

An optional pre-bid walkthrough is scheduled on Monday, January 30, 2023, at 11:00A.M. Location: 7 Maple Avenue, Hastings-on-Hudson, NY 10706. Meet at the Village Clerk's Office

Interested Contractors may submit questions in writing to villagemanager@hastingsgov.org up to 4:00 P.M. on Thursday, February 2, 2023.

Answers will be posted online at <https://www.hastingsgov.org/village-clerk/pages/legal-public-notices> in the appropriate Bid Document file and distributed to all known bidders by 4:00 P.M. on Thursday, February 9, 2023.

**PROJECT TITLE: EV Charger & Infrastructure Installation
Village of Hastings-on-Hudson**

DESCRIPTION OF BID:

The Village of Hastings-on-Hudson, New York (the “Village”) is requesting bids for the installation of EV chargers, conduit, and new service installation at the Municipal Building, 7 Maple Avenue, Hastings-on-Hudson, as described in the attached specifications.

PROPOSED WORK:

Proposed work includes the installation of posts, bollards, conduit, wiring, and electric vehicle charging stations to be provided by Owner, and installation of new electric service to the Municipal Building for use of the Village’s electric vehicle fleet. All specifications are outlined in the attached drawings.

The Contractor is responsible to become familiar with the site and to verify all measurements and conditions in the field. The Village will perform quality control inspections for footings.

No construction, purchase, delivery, installation, or work shall be done or made on any part or feature of this Contract which is dependent upon shop drawing review, until such review has been received from the Village. If the Contractor proceeds without reviewed shop drawings, it shall be at his own risk.

BID SUBMITTAL DATE AND TIME OF COMPLETION:

The bid shall be submitted no later than February 17, 2023, at 10A.M. All bids for performing the work herein described must be submitted to the Village.

The Contractor shall provide the required Village insurance documents. All documents are required to be completed for this agreement within ten (10) business days (in the State of New York) of notice of award.

References of work similar in size and scope shall be submitted upon the request of the Village. Work shall proceed in the field within thirty (30) business days of the Contract signing or directly following the Spring thaw. Once work has started, it shall proceed continuously and diligently. All items of work shall be completed and approved within ninety (90) calendar days from the date work begins.

AWARD AND AGREEMENT

The Contract will be awarded to the lowest responsible bidder with a formal written agreement pursuant to the provisions of the General Municipal Law. The Village reserves the right to determine responsibility based on an evaluation of the Contractor's qualifications, experience, organization, finances, past performances, and other applicable factors. The Village further reserves the right to reject any or all bids.

SALES TAX EXEMPTION

Under Chapter 513 of the Laws of New York 1974, all materials and supplies sold to a Contractor and which are to become an integral, component part of a structure, building or real property owned by an exempt organization such as the municipality, are exempt from the payment of New York State Sales or compensatory use taxes. Therefore, the Contractor should not include any amount in its bid price to cover sales taxes for the above items.

WAGES AND LABOR

The Contractor shall ensure that workers are paid the appropriate wages and supplemental (fringe) benefits. Throughout the contract, the Contractor shall obtain and pay workers in accordance with periodic wage rate schedule updates from the NYS Department of Labor (NYSDOL).

The Contractor shall comply with the applicable provisions of the "Labor Law" as amended, of the State of New York. This Contract shall be void unless there is compliance with applicable sections of said Labor Law. Each and every provision of law and clause required by law to be part of this Contract shall be deemed to be included herein and this Contract shall be read and enforced as though it were included herein, and if through mere mistake or otherwise any such provision is not included, then upon the application of either party hereto, the Contract shall forthwith be physically amended to make such inclusion.

Specifically, section 200-e of the Labor Law, as so amended, prohibits in contracts, discrimination on account of race, creed, color, or national origin in employment of citizens upon public works.

All contractors and vendors retained to perform services in connection with the project shall be authorized to do business in the State of New York and/or filed such documentation, certifications, or other information with the State or County as required in order to lawfully provide such services in the State of New York. In addition, said contractor/vendors shall possess and maintain all professional licenses and/or certifications required to perform the tasks undertaken in connection with the project.

COMPLIANCE WITH IRAN DIVESTMENT ACT

Each bidder/proposer, any person signing on behalf of any bidder/proposer and any assignee or subcontractor and, in the case of a joint bid/proposer, each party thereto, certifies, under penalty of perjury, that to the best of its knowledge and belief, that each bidder/proposer and any subcontractor or assignee is not identified on the list created pursuant to paragraph (b) of subdivision 3 of section 165-a of the New York State Finance Law (the “Prohibited Entities List”).

During the term of any contract awarded pursuant to this bid, should the Village receive information that a bidder/proposer is in violation of the above-referenced certification, the Village will offer the person or entity an opportunity to respond. If the person or entity fails to demonstrate that he/she/it has ceased engagement in the investment which is in violation of the Act within 90 days after the determination of such violation, then the Village shall take such action as may be appropriate including, but not limited to, seeking compliance, recovering damages or declaring the bidder/proposer in default.

The Village reserves the right to reject any bid or proposal from a bidder/proposer that appears on the Prohibited Entities List prior to the award of a contract and to pursue a responsibility review with respect to any bidder/proposer that is awarded a contract and subsequently appears on the Prohibited Entities List.

COMPLIANCE WITH NYS SEXUAL HARASSMENT PREVENTION LAW

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that the bidder has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all of its employees. Such policy shall, at a minimum, meet the requirements of section 201-g of the labor law.

Bid Sheet

<u>Work Description</u>	<u>Unit</u>	<u>Unit Price</u>	
		<u>In numbers</u>	<u>In words</u>
EV Charger & Infrastructure Installation	Lump Sum		

The Village reserves the right to award the contract for surveying to any Contractor, as best meets the needs of the Village.

NOTE: Unit prices include all work necessary to complete, in place, each listed item including, but not limited to, labor, materials and incidentals. Unit prices are to be written in both words and numbers. In case of a discrepancy, those shown in words shall govern. All prices are to be in dollars and cents.

Bid Submitted By:

(Company Name)

(Address)

(Telephone No.)

(Printed Name of Authorized Representative Submitting Bid)

(Authorized Signature)

Date:

**BID PROPOSAL
EV CHARGER & INFRASTRUCTURE INSTALLATION**

BID PROPOSAL:

The Bid Proposal information must be provided and signed by the contractor's representative. NYSDOL Prevailing Wage Rate requirements must be included in the bid amount. The Contractor must visit the site and understand any site constraints prior to submission of this bid.

(Signature)

(Print Name)

(Title)

(Date)

VILLAGE OF HASTINGS-ON-HUDSON (the “Village”)
7 Maple Avenue, Hastings-on-Hudson, NY 10706
MINIMUM INSURANCE REQUIRED BY CONTRACTORS & SUBCONTRACTORS

Insurance Exhibit

The Contractor/Subcontractor shall purchase and maintain insurance of the following types of coverage and limits of liability:

1) Commercial General Liability (CGL) coverage with limits of Insurance of not less than \$1,000,000

Per Occurrence/\$2,000,000 Annual Aggregate and including a Waiver of Subrogation.

a) If the CGL coverage contains a General Aggregate Limit, such General Aggregate shall apply separately to each project.

b) CGL coverage shall be written on ISO Occurrence form CG 00 011093 or a substitute form

providing equivalent coverage and shall cover liability arising from premises, operations, independent contractors, product-completed operations, and personal and advertising injury,

blanket contractual including injury to subcontractors employees.

Note:c) The Village and their agents, officers, directors and employees shall be included as additional

insured on the CGL, using ISO Additional Insured Endorsement CG 20 10 1185 or an

endorsement providing equivalent or broader coverage to the Village and their agents, officers,

directors and employees. The coverage must be underwritten by an Insurance Company with

at least ‘A 7’ Best rating as defined by A.M. Best. Coverage for the additional insured shall apply

as Primary and Non-Contributing Insurance before any other insurance or self-insurance,

include any deductible, maintained by, or provided to, the additional insured’s.

d) Contractor/Subcontractor shall maintain CGL coverage for itself and all additional insureds for

the duration of the project and maintain Completed Operations coverage for itself and each

additional insured for at least 2 years after completion of the Work.

e) XCU may not be excluded

2) Automobile Liability

a) Business Auto Liability with limits of at least \$1,000,000 each accident.

b) Business Auto coverage must include coverage for liability arising out of all owned, leased, hired

and non-owned automobiles.

c) The Village and their agents, officers, directors and employees shall be included as additional

insured on the auto policy.

d) Also needs to include waiver of subrogation

3) Workers Compensation and Employers Liability and N.Y.S Disability

a) Statutory Workers' Compensation, Employers' Liability and N.Y.S. Disability Benefits Insurance for all employees.

b) Where applicable, U.S. Longshore and Harborworkers Compensation Act Endorsement shall be attached to the policy.

c) Where applicable, the Maritime Coverage Endorsement shall be attached to the policy. d) Workers Compensation must include a waiver of subrogation.

NOTE: ACORD forms are not acceptable proof of workers compensation coverage; must provide C-105.2 and Disability to be provided on DB-120.1.

4) The Contractor shall not sublet any part of his work without written approval of the Village, and without assuming full responsibility for requiring similar insurance from his subcontractors and shall submit satisfactory evidence to that effect to the Village. Each such insurance policy, except the Workers' Compensation and Disability policies, shall include the Village and their agents, officers, directors and employees as an additional insured.

5) Policy shall be endorsed to provide that 30 days written notice prior to cancellation be given to the Village. Policies that lapse and/or expire during the term of occupancy shall be re-certified and received by Village no less than 30 days prior to cancellation or renewal.

6) Contractor acknowledges that failure to obtain such insurance on behalf of the Village constitutes a material breach of contract and subjects it to liability for damages, indemnification and all other legal remedies available to the Village. The contractor/permittee is to provide the Village with a certificate of insurance, evidencing the above requirements have been met, prior to the commencement of work or use of facilities. The failure of the Village to object to the contents of the certificate or absence of same shall not be deemed a waiver of any and all rights held by the Village.

SAFETY PROVISIONS

The safety provisions of applicable laws, building and construction codes and the safety rules approved by the State Labor Commissioner shall be observed.

The provisions of the Federal Occupational Safety and Health Administration's "Occupational Safety and Health Standards" and "Safety and Health Regulations for Construction" shall be observed.

Should at any time during the work under this Contract any Local/State/Federal safety inspector visit the site for the purpose of a safety inspection, the Contractor shall immediately notify the Village representative on the job site.

HOURS

No laborer, worker or mechanic in the employ of a contractor or subcontractor engaged in the performance of any public work project shall be permitted to work more than eight hours in any day or more than five days in any week, except in cases of extraordinary emergency. The work must be performed between 7:30 a.m. and 4:30 p.m. Monday through Friday. Any exceptions out of these hours must have prior approval by the Department Head in charge of the public work project.

WAGES AND SUPPLEMENTS

The wages and supplements to be paid and/or provided to laborers, workers and mechanics employed in a public work project shall not be less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. The prime contractor shall obtain a Prevailing Rate Schedule from the: New York State Department of Labor, Bureau of Public Work, State Office Campus, Bldg. 12, Albany, NY 12240. The prime contractor must provide copies of this schedule to all subcontractors and obtain an affidavit certifying such schedule was received.

VILLAGE OF HASTINGS-ON-HUDSON
7 Maple Avenue, Hastings-on-Hudson, NY 10706

INDEMNIFICATION AND HOLD HARMLESS AGREEMENT

To the fullest extent permitted by law, Contractor/Subcontractor will indemnify and hold harmless the Village of Hastings-on-Hudson (the "Village"), their officers, representatives, agents and employees from and against any and all claims, suits, liens, judgments, damages, losses and expenses, including reasonable legal fees and all court costs and liability (including statutory liability) arising in whole or in part and in any manner from injury and/or death of person or damage to or loss of any property resulting from the acts, omissions, breach or default of Contractor/Subcontractor, its officers, directors, agents, employees and subcontractors, in connection with the performance of any work by or for Contractor/Subcontractor pursuant to any contract, Purchase Order and/or related Proceed Order. Contractor/Subcontractor will defend and bear all costs of defending any actions or proceedings brought against the Village, their officers, representatives, agents and employees, arising in any employee of the Contractor/Subcontractor and shall not be limited in any way by an amount or type of damage, compensations, or benefits payable under any applicable workers' compensation, disability benefits or other similar employees benefit act.

The Contractor/Subcontractor hereby expressly permits the Village to pursue and assert claims against the Contractor/Subcontractor for indemnity, contribution and common law negligence arising out of claims for damages for death and personal injury.

Company Title/Name: _____

Name: _____ Signature: _____

Date: _____

Nature/Scope of Work Being Performed: _____

Please sign, date, and return to:

Anthony Costantini
Village Clerk
Village of Hastings-on-Hudson
Village Hall
7 Maple Avenue
Hastings-on-Hudson, NY 10706

NON-DISCRIMINATION CLAUSE

During the performance of the Contract, the Contractor agrees as follows:

a. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin, sex, sexual orientation, age, disability or marital status, and will take affirmative action to insure that they are afforded equal employment opportunities without discrimination because of race, creed, color, or national origin, sex, sexual orientation, age, disability or marital status. Such action shall be taken with reference, but not limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay or other forms of compensation, and selection for training or retraining, including apprenticeship and on-the-job training.

b. The Contractor will send to each labor union or representative of workers with which he has or is bound by a collective bargaining or other agreement or understanding, a notice, to be provided by the Commission of Human Rights, advising such labor union or representative of the Contractor's agreement under clauses "a." through "h." hereinafter called "non-discrimination clauses", and requesting such labor union or representative to agree in writing, whether in such collective bargaining or other agreement or understanding or otherwise, that such labor union or representative will not discriminate against any member or applicant for membership because of race, creed, color, or national origin, sex, sexual orientation, age, disability or marital status, and will take affirmative action to insure that they are afforded equal membership opportunities without discrimination because of race, creed, color, or national origin, sex, sexual orientation, age, disability or marital status. Such action shall be taken with reference, but not be limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay, or other forms of compensation, and selection for training or retraining including apprenticeship and on-the-job training. Such notice shall be given by the Contractor, and such written agreement shall be made by such labor union or representative, prior to the commencement of performances of this contract. If such labor union or representative fails or refuses so to agree in writing, the Contractor shall promptly notify the Commission for Human Rights of such failure or refusal.

c. The Contractor will post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the Commission for Human Rights setting forth the substance of the provisions of clauses "a." and "b." and such provisions of the State's Laws against discrimination as the Commission for Human Rights shall determine.

d. The Contractor will state, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, that all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, or national origin, sex, sexual orientation, age, disability or marital status.

e. The Contractor will comply with the provisions of Sections 291-299 of the Executive Law and the Civil Rights Law, will furnish all information and reports deemed necessary by the Commission for Human Rights under these non-discrimination clauses and such sections of the Executive Law, and will, permit access to his books, records, and accounts by the Commission of Human Rights, and Owner representatives/counsel for purposes of investigation to ascertain compliance with these non-discrimination clauses and such sections of the Executive Law and Civil Rights Law.

f. The Contract may be forthwith cancelled, terminated, or suspended in whole or in part, by the contracting agency upon the basis of a finding made by the Commission of Human Rights that the Contractor has not complied with these non-discrimination clauses, and the Contractor may be declared ineligible for future contracts made by or on the behalf of the Owner/Contracting Agency until he satisfied the Commission for Human Rights that he has established and is carrying out a program in conformity with the provisions of these non-discrimination clauses. Such finding shall be made by the Commission for Human Rights after conciliation efforts by the Commission have failed to achieve compliance with these non- discrimination clauses and after a verified complaint has been filed with the Commission, notice thereof has been given to the Contractor and an opportunity has been afforded him to be heard publicly before three members of the Commission. Such sanctions may be imposed and remedies otherwise provided by law.

g. If this Contract is cancelled or terminated under clause "f.", in addition to other rights of the Owner provided in this contract upon its breach by the Contractor, the Contractor will hold the Owner harmless against any additional expenses or costs incurred by the Owner in completing the work or in purchasing the services, materials, equipment, or supplies contemplated by this contract, and the Owner may withhold payments from the Contractor in an amount sufficient for this purpose and recourse may be had against the surety on the performance bond if necessary.

h. The Contractor will include the provisions of clauses "a.", through "g." in every subcontract or purchase order in such a manner that such provisions will be binding upon each subcontractor or vendor as to operations to be performed within jurisdictional locale of the Project being contracted by the Owner. The Contractor will take such action in enforcing such provisions of such subcontract or purchase as the Owner/Contracting Agency may direct, including sanctions or remedies for noncompliance. If the Contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the Contracting Agency/Owner, the Contractor shall promptly so notify the Owner's representatives/counsel, requesting him to intervene and protect the interests of the Owner (Contracting Agency's jurisdictional area).

**STATEMENT OF NON-
COLLUSION (To be Completed by
Each Bidder)**

In accordance with Section 103-d General Municipal Law, effective September 1, 1966, every bid or proposal hereafter made to a political subdivision of the State or any public department, agency or official thereof or to a fire district or any agency or official thereof for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed to by the bidder and affirmed by such bidder as true under the penalties or perjury; non-collusive bidding certification.

- a. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:
 - (1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or any competitor.
 - (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor.
 - (3) No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition.

- b. The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder, as well as the person signing in its behalf.

- c. That attached hereto (if a corporate bidder) is a certified copy of resolution authorizing the execution of this certificate by the signature of this bid or proposal in behalf of the corporate bidder.

Signed: _____

Firm: _____

Title: _____

Date: _____



SITE NAME: HASTINGS MUNICIPAL BUILDING



100 Corporate Drive, Suite 202
Lebanon, NJ 08833
Ph 908.323.2513 Fax 908.323.2525
www.schererdesigngroup.com

DRAFT
NOT FOR CONSTRUCTION
DRAWING CONTENTS ARE CONCEPTUAL AND ARE SUBJECT TO FINAL ENGINEER'S APPROVAL (INCLUDING BUT NOT LIMITED TO QUANTITIES AND SIZES)

COLLEEN CONNOLLY
NY PROFESSIONAL ENGINEER # 087018
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY.
SIGNATURE AND SEAL NOT VALID UNLESS ORIGINAL.

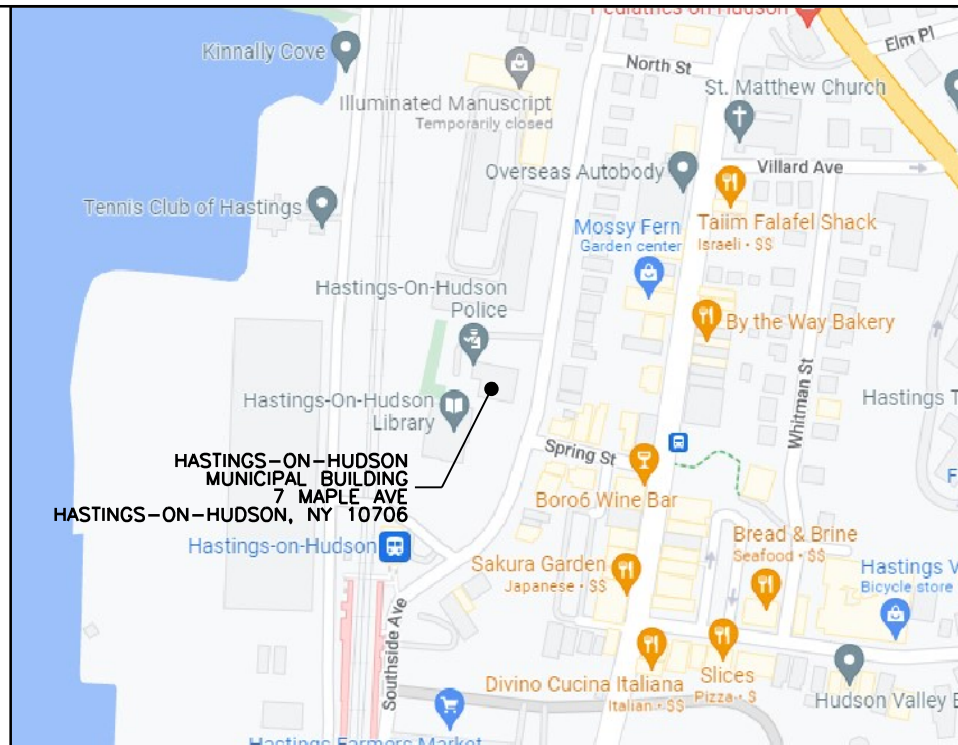
APPLICANT:



CONTRACTOR SHALL CONTACT SDG PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION TO ENSURE THAT THEY HAVE THE LATEST REVISION OF THE CONSTRUCTION DOCUMENTS.



KEY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SCOPE OF WORK

Installation Of EV charging stations including (4) Proposed Wood Posts, (5) Proposed EV Chargers, (3) Proposed Receptacles, (4) Proposed Junction Boxes, Including The Installation Of (1) Proposed Meter, (1) Proposed Disconnect Switch, (1) Proposed ATS, And (1) Proposed Circuit Breaker Panel.

PROJECT DIRECTORY

ENGINEERING PROJECT MANAGER:
Nathan Slack
(908) 323-2513
BUILDING INSPECTOR:
Charles V. Minozzi Jr.
Village Of Hastings-On-Hudson
(914) 478-3402
VILLAGE CLERK:
Anthony Costantini
Village Of Hastings-On-Hudson
7 Maple Avenue,
Hastings-On-Hudson
New York 10706
(914) 478-3400 Ext. #616

SITE COORDINATES

LATITUDE: 40° 59' 44.289"
LONGITUDE: 73° 53' 0.5382"
GROUND ELEVATION: 67'-0"

LEGAL DESCRIPTION

PARCEL ID#: 4.30-20-1
4.30-20-2

APPROVALS

	DATE	APPROVED	APPROVED AS NOTED	DISAPPROVED/REVISE
CONSTRUCTION MANAGER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SITE ACQUISITION:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF ENGINEER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OWNER/OWNER REP:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NO.	ISSUE OR REVISION	DATE	BY
C	CLIENT COMMENTS	01/09/23	BP
B	CLIENT COMMENTS	11/14/22	JG
A	ISSUED FOR REVIEW	10/14/22	JS

PROJECT TITLE:

CONSTRUCTION DOCUMENTS

SITE NAME:
HASTINGS-ON-HUDSON MUNICIPAL BUILDING
SITE ADDRESS:
7 MAPLE AVE # 1
HASTINGS-ON-HUDSON, NY 10706
PARCEL ID#:
4.30-20-1
4.30-20-2

SDG PROJECT #: 22WMS021

SCALE: AS NOTED DATE: 10/14/22

DRAWN BY: JS CHECKED BY: NS

DRAWING TITLE:

COVER PAGE

DRAWING NO.: PAGE NO.:

C-1 1 of 9

APPLICABLE CODES

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE: 2020 BUILDING CODE OF NEW YORK STATE

ELECTRICAL CODE: NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2017, NATIONAL ELECTRICAL CODE, AS ADOPTED BY NEW YORK

MECHANICAL CODE: 2020 MECHANICAL CODE OF NEW YORK STATE

PLUMBING CODE: 2020 PLUMBING CODE OF NEW YORK STATE

LIGHTNING PROTECTION CODE: NFPA 780 - 2006, LIGHTNING PROTECTION CODE

FUEL GAS CODE: 2020 FUEL GAS CODE OF NEW YORK STATE

ENERGY CODE: 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST APPROVED OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION

ANSI/TIA-222-H ADDENDUMS 1-4, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101 (2015), LIFE SAFETY CODE, NFPA 37 (2002), STATIONARY COMBUSTION ENGINES AND GAS TURBINES, NFPA 853 (2003), STANDARD FOR THE INSTALLATION OF STATIONARY FUEL POWER PLANTS

AMERICAN WELDING SOCIETY (AWS) D1.1 (2004), STRUCTURAL WELDING CODE - STEEL

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE (NESC) 2012

TELECORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

DWG.	DWG. TITLE
C-1	COVER PAGE
S-1	GENERAL NOTES
S-2	SITE PLAN
S-3	BASEMENT PLAN
S-4	DETAILS
S-5	DETAILS
E1	ELECTRICAL DETAILS
E2	ELECTRICAL NOTES
E3	ELECTRICAL NOTES

(TYPICAL DRAFTING STANDARDS FOR ALL SHEETS)

Existing	Light, Upper And Lower Case Lettering When Labeling Existing Features
PROPOSED	BOLD, UPPER CASE LETTERING WHEN LABELING PROPOSED FEATURES
---	Light Lines Represent Existing Features
---	DARK LINES REPRESENT PROPOSED FEATURES



FLOOD ZONE COMPLIANCE

PROPERTY IS NOT LOCATED WITHIN A SFHA.

GENERAL NOTES:

1. THE NOTES CONTAINED HEREIN ARE NOT PROJECT SPECIFIC. THE CONTRACTOR SHALL UTILIZE ALL THE NOTES WHICH PERTAIN TO THE WORK DEPICTED IN THIS PLAN SET.
2. THE CONTRACTOR SHALL CONTACT SDG TO VERIFY THAT THEY HAVE BEEN ISSUED THE LATEST REVISION OF THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF CONSTRUCTION.
3. ALL DIMENSIONS AND INFORMATION SHOWN IN THE DRAWINGS ARE DERIVED FROM LIMITED FIELD OBSERVATIONS MADE FOR THIS PROJECT. DETAILED INFORMATION WAS COLLECTED FOR SPECIFIC WORK AREAS. THIS INFORMATION IS TO BE USED FOR THE WORK SHOWN ON THESE PLANS ONLY.
4. UNLESS SPECIFICALLY REQUESTED BY THE CLIENT OR REQUIRED TO PROCEED WITH THE CREATION OF THE CONSTRUCTION DOCUMENTS, STRUCTURAL PROBES HAVE NOT BEEN PERFORMED. BUILDING COMPONENT CONFIGURATION AND CONDITION NOT OTHERWISE VISIBLE BENEATH SURFACE FINISHES, MAY VARY AND SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES, WHETHER IN CONFIGURATION OR CONDITION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & FIELD CONDITIONS PRIOR TO THE START OF CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. THE CONSEQUENCES OF PROCEEDING WITH CONSTRUCTION AFTER DISCOVERING A FIELD CONDITION DISCREPANCY AND WITHOUT THE APPROVAL OR RECOMMENDATIONS OF THE ENGINEER, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES.
7. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY PERMITS AND INSPECTIONS TO COMPLETE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, PLUMBING, FIRE PROTECTION AND STRUCTURAL.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER OF CONSTRUCTION STAGES WHICH REQUIRE SPECIAL OR CONTROLLED INSPECTIONS WITH A MINIMUM OF 48 HOURS (2 BUSINESS DAYS) NOTICE. THESE INSPECTIONS INCLUDE, BUT ARE NOT LIMITED TO, CONCRETE REINFORCEMENT, CONCRETE POURING, STRUCTURAL STEEL ERECTION/BOLTING, WELDING AND THE INSTALLATION OF EPOXY ANCHORS. FAILURE TO COORDINATE THESE INSPECTIONS WITH THE ENGINEER MAY PROHIBIT SIGNOFF WITH THE AUTHORITY HAVING JURISDICTION.
9. CONTRACTOR SHALL PROVIDE ENGINEER WITH PHOTOGRAPHS FOR EACH STAGE OF CONSTRUCTION. THE PHOTOGRAPHS SHALL INCLUDE, BUT ARE NOT LIMITED TO, BEAM POCKETS & PEDESTAL CONNECTIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY DURING CONSTRUCTION. THE ENGINEER HAS NO RESPONSIBILITY FOR OR CONTROL OVER SAFETY AT ANY TIME.
11. THE ENGINEER HAS NOT PERFORMED AN INSPECTION FOR ASBESTOS OR OTHER HAZARDOUS MATERIALS. THESE DRAWINGS ARE NOT MEANT TO DEPICT OR IMPLY THE PRESENCE OR ABSENCE OF SUCH MATERIALS WITHIN THE PROPOSED WORK AREAS.
12. TRUE NORTH SHALL BE DETERMINED. CONTRACTOR IS RESPONSIBLE FOR PROPER AZIMUTH ALIGNMENT.
13. ROUTING IS DIAGRAMMATIC AND CONTRACTOR IS TO UTILIZE BEST POSSIBLE ROUTING TO EXPEDITE CONSTRUCTION PROCESS. ROUTING SHALL NOT IMPEDE UPON REQUIRED PASSAGEWAYS OR MEANS OF EGRESS.
14. THE CONTRACTOR SHALL PROVIDE NEW PENETRATIONS FOR ROUTING THROUGH FIRE RATED ASSEMBLIES AND FIRE STOP ALL PENETRATIONS AS PER CODE. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE THE FIRE RATING OF BUILDING COMPONENTS IF EXISTING PENETRATIONS ARE USED FOR NEW ROUTING.
15. ALL DISTURBED AREAS SHALL BE REPAIRED TO MATCH EXISTING ADJACENT, INCLUDING BUT NOT LIMITED TO FIRE RATED MATERIALS.
16. ANY DISTURBANCE TO ROOFING, FLASHINGS OR ANY EXTERIOR SURFACE SHALL BE REPAIRED/SEALED WATERTIGHT AND IN ACCORDANCE WITH ANY WARRANTIES, AS APPLICABLE. THE GENERAL CONTRACTOR SHALL EMPLOY THE WARRANTY GRANTOR, OR OTHER AUTHORIZED CONTRACTOR, WHERE REQUIRED FOR MAINTENANCE OF THE WARRANTY.
17. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.



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APPLICANT:



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 HASTINGS-ON-HUDSON, NY 10706
 PARCEL ID#:
 4.30-20-1
 4.30-20-2

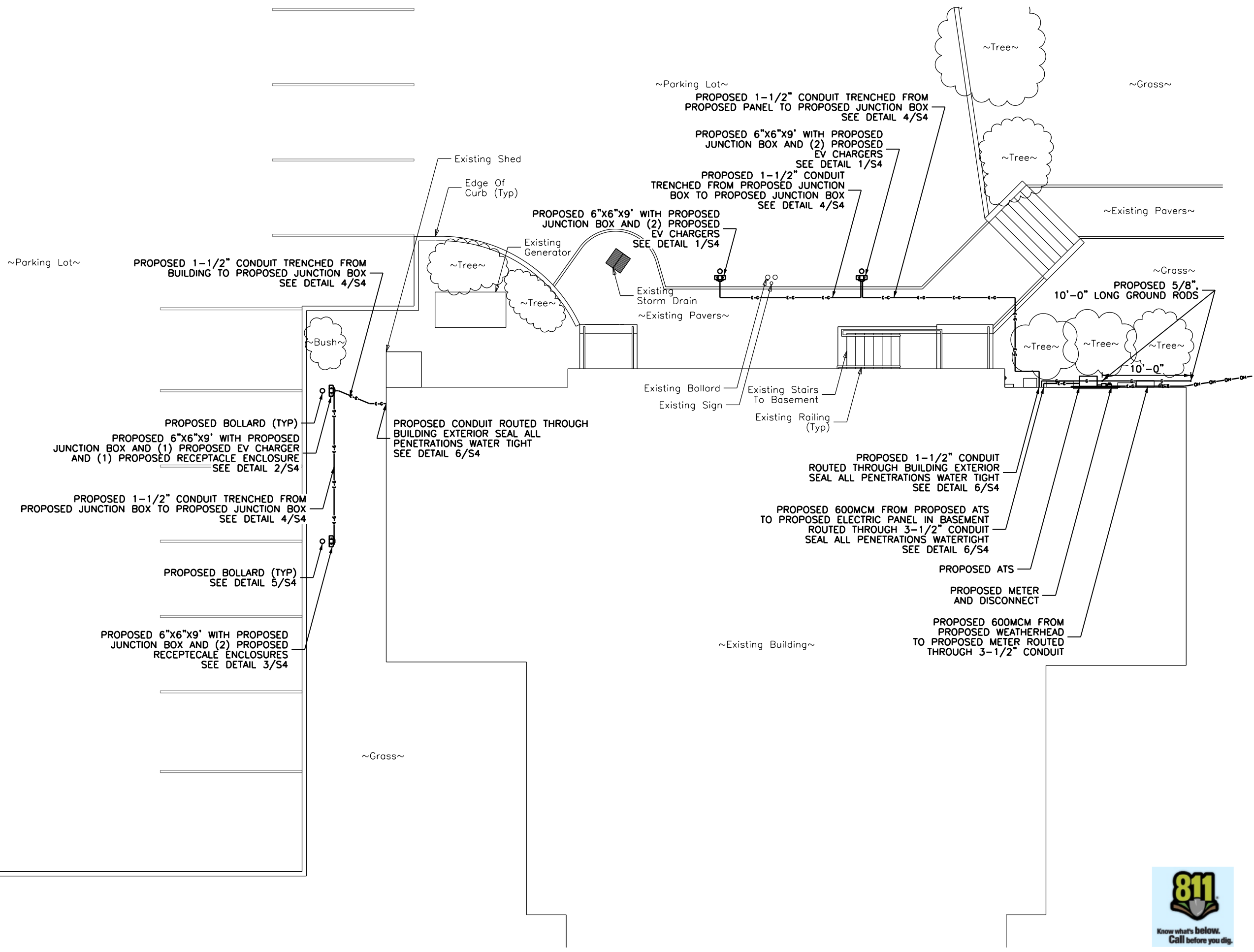
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GENERAL NOTES

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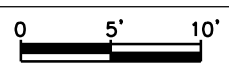
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PARTIAL SITE PLAN

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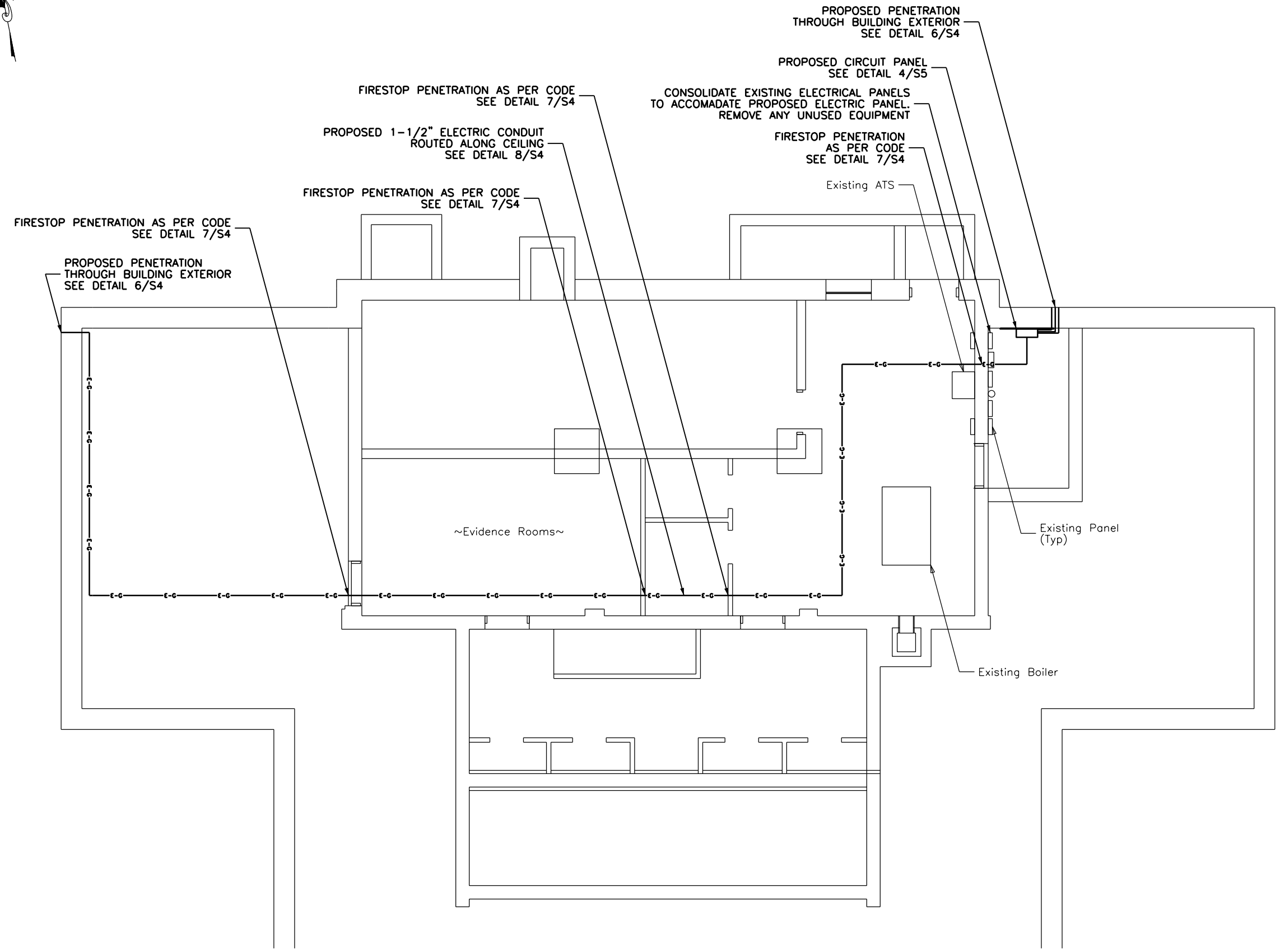
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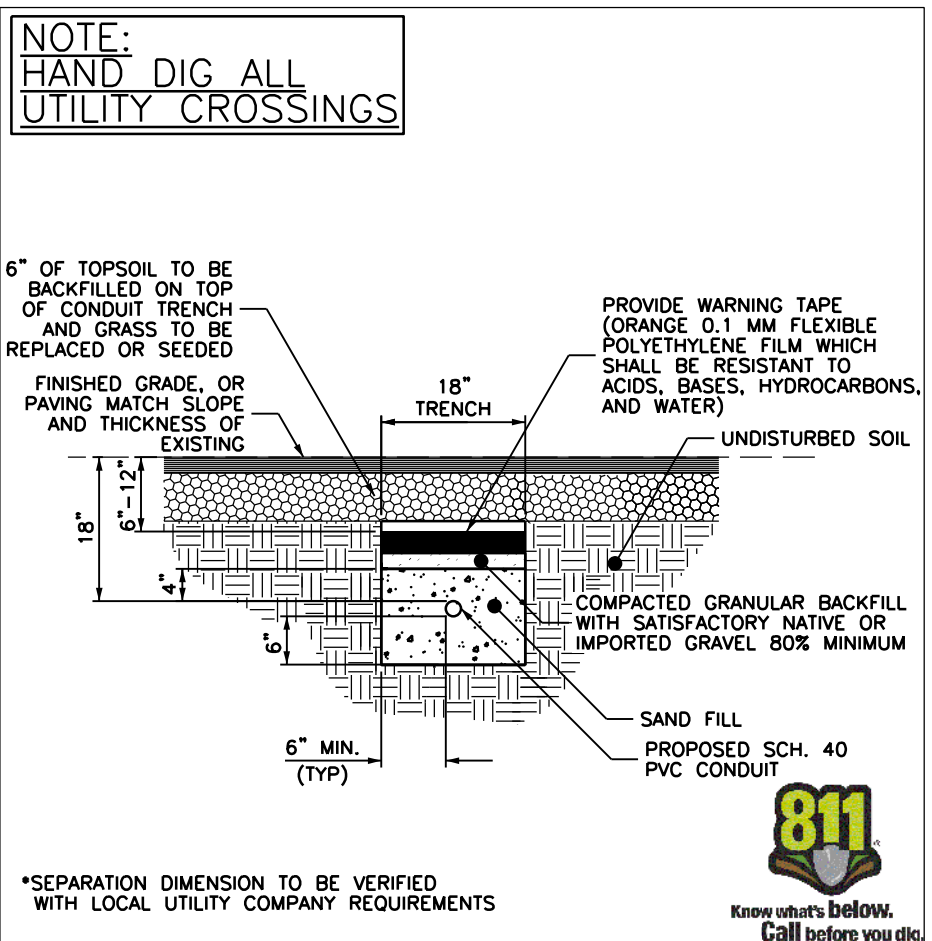
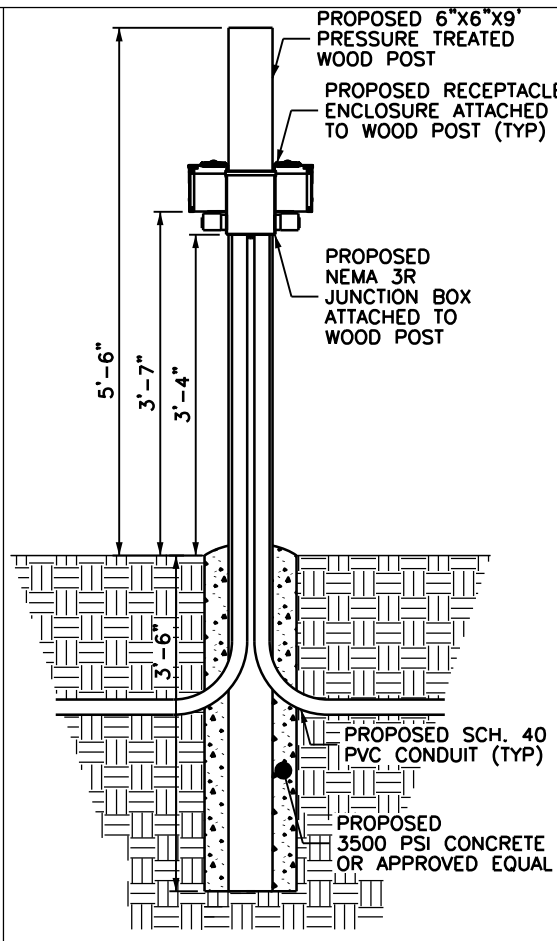
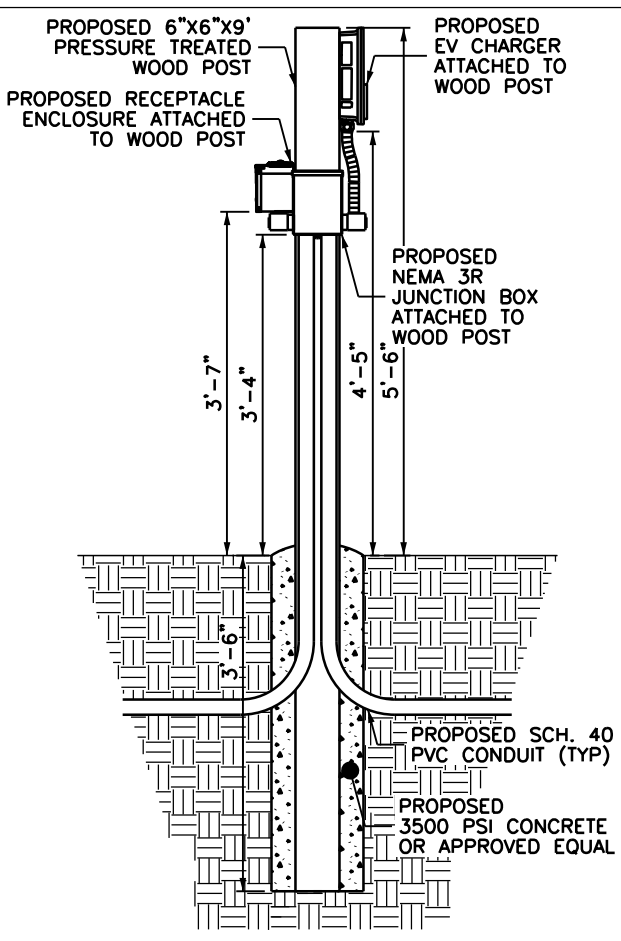
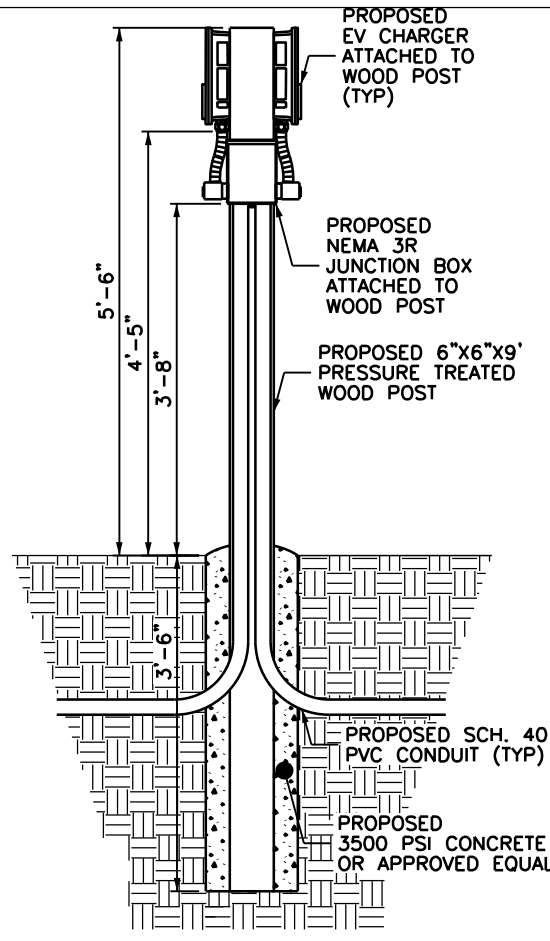
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BASEMENT PLAN

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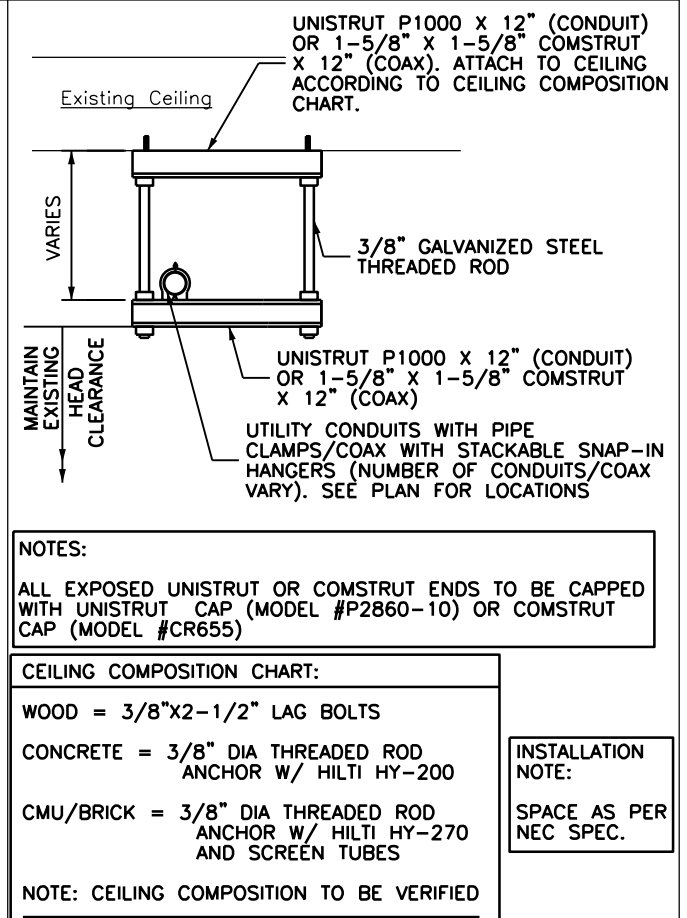
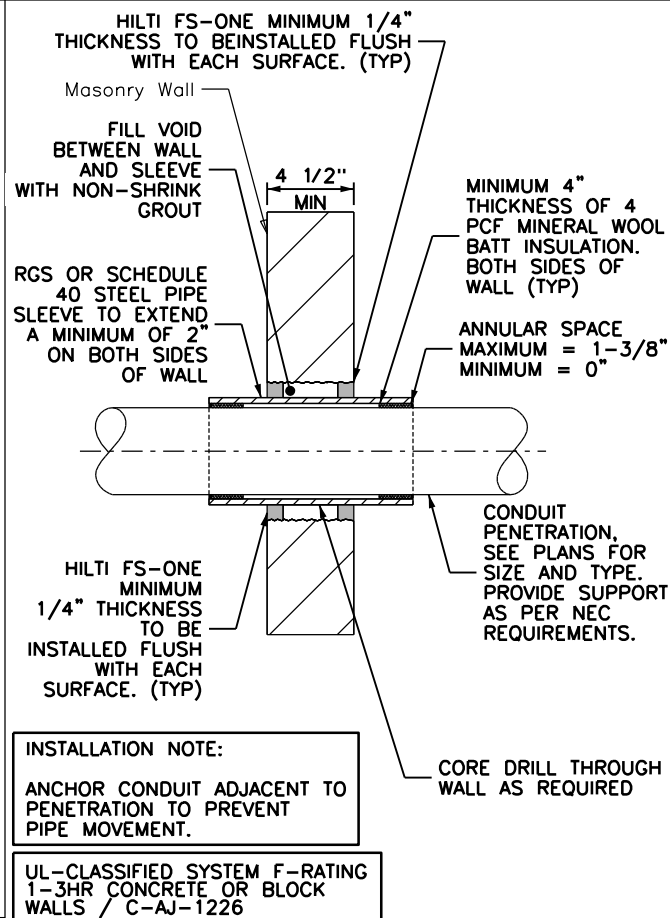
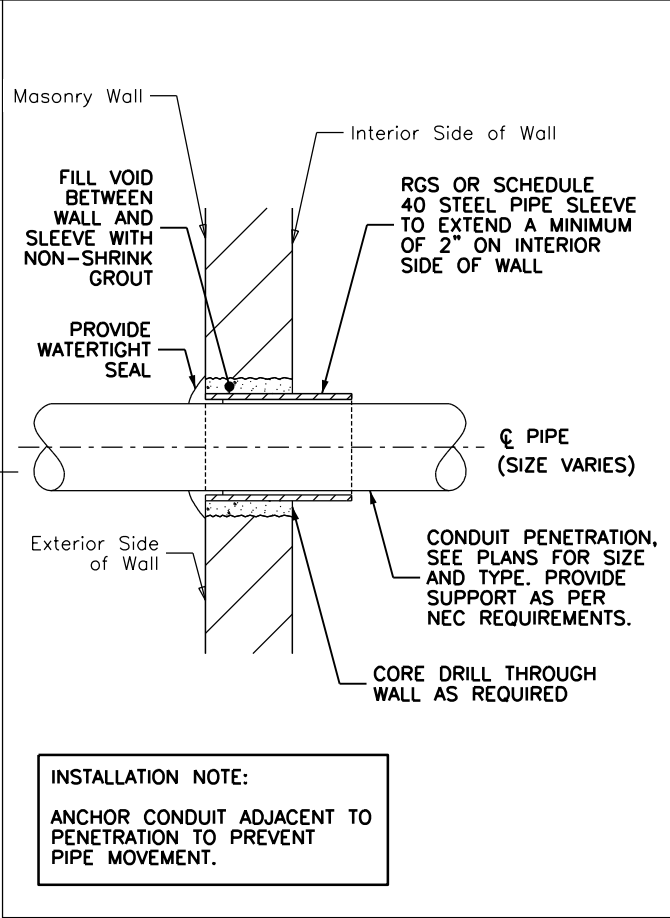
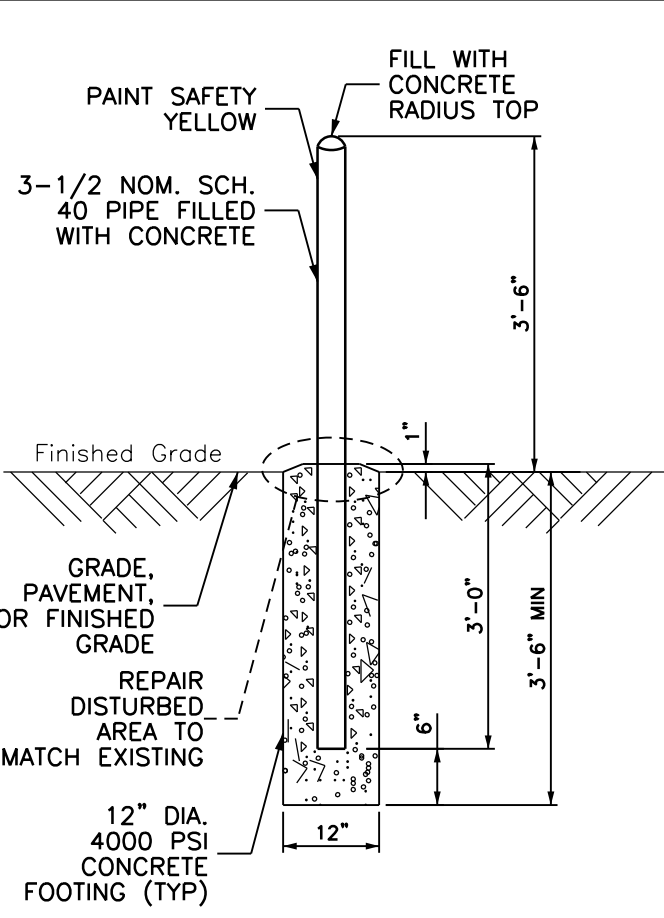


1 CHARGER POST DETAIL
11x17 SCALE: NTS 22x34 SCALE: NTS

2 OUTLET & CHARGER POST DETAIL
11x17 SCALE: NTS 22x34 SCALE: NTS

3 OUTLET POST DETAIL
11x17 SCALE: NTS 22x34 SCALE: NTS

4 TRENCHING DETAIL
11x17 SCALE: NTS 22x34 SCALE: NTS



5 BOLLARD DETAIL
11x17 SCALE: NTS 22x34 SCALE: NTS

6 CONDUIT EXTERIOR PENETRATION DETAIL
11x17 SCALE: NTS 22x34 SCALE: NTS

7 CONDUIT FIRESTOP DETAIL
11x17 SCALE: NTS 22x34 SCALE: NTS

8 HANGING SUPPORT
11x17 SCALE: NTS 22x34 SCALE: NTS

NOTE:
HAND DIG ALL
UTILITY CROSSINGS



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DETAILS

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ASCO SERIES 300 POWER TRANSFER SWITCH

WEIGHT: 260 lbs
DIMENSIONS (HXWXD): 56"x24"x14"



SCREW COVER, TYPE 3R JUNCTION BOX

MODEL: A8R64NK
DIMENSIONS (HXWXD): 8"x6"x4"



MILBANK RECEPTACLE ENCLOSURE

WEIGHT: 4.1 lbs.
DIMENSIONS (HXWXD): 5.75"x5.31"x4.63"



SIEMENS MAIN BREAKER

MODEL: E4242MB3400SCU
400A 3 PHASE 42 POSITION CIRCUIT BREAKER PANEL
DIMENSIONS (HXWXD): 58"x20"x6"



1 AUTOMATIC TRANSFER SWITCH SPECIFICATION

11x17 SCALE: NTS 22x34 SCALE: NTS

2 JUNCTION BOX SPECIFICATION

11x17 SCALE: NTS 22x34 SCALE: NTS

3 RECEPTACLE ENCLOSURE DETAIL

11x17 SCALE: NTS 22x34 SCALE: NTS

4 CIRCUIT PANEL SPECIFICATION

11x17 SCALE: NTS 22x34 SCALE: NTS

SIEMENS 50 AMP GFCI DOUBLE POLE CIRCUIT BREAKER

MODEL: QF250A
DIMENSIONS (HXWXD): 2.78"x2"x3"



AUTEL MAXICHARGER AC LITE

WEIGHT: 15 lbs
DIMENSIONS (HXWXD): 13"x7"x3"



5 GFCI BREAKER SPECIFICATION

11x17 SCALE: NTS 22x34 SCALE: NTS

6 AUTEL MAXICHARGER SPECIFICATION

11x17 SCALE: NTS 22x34 SCALE: NTS



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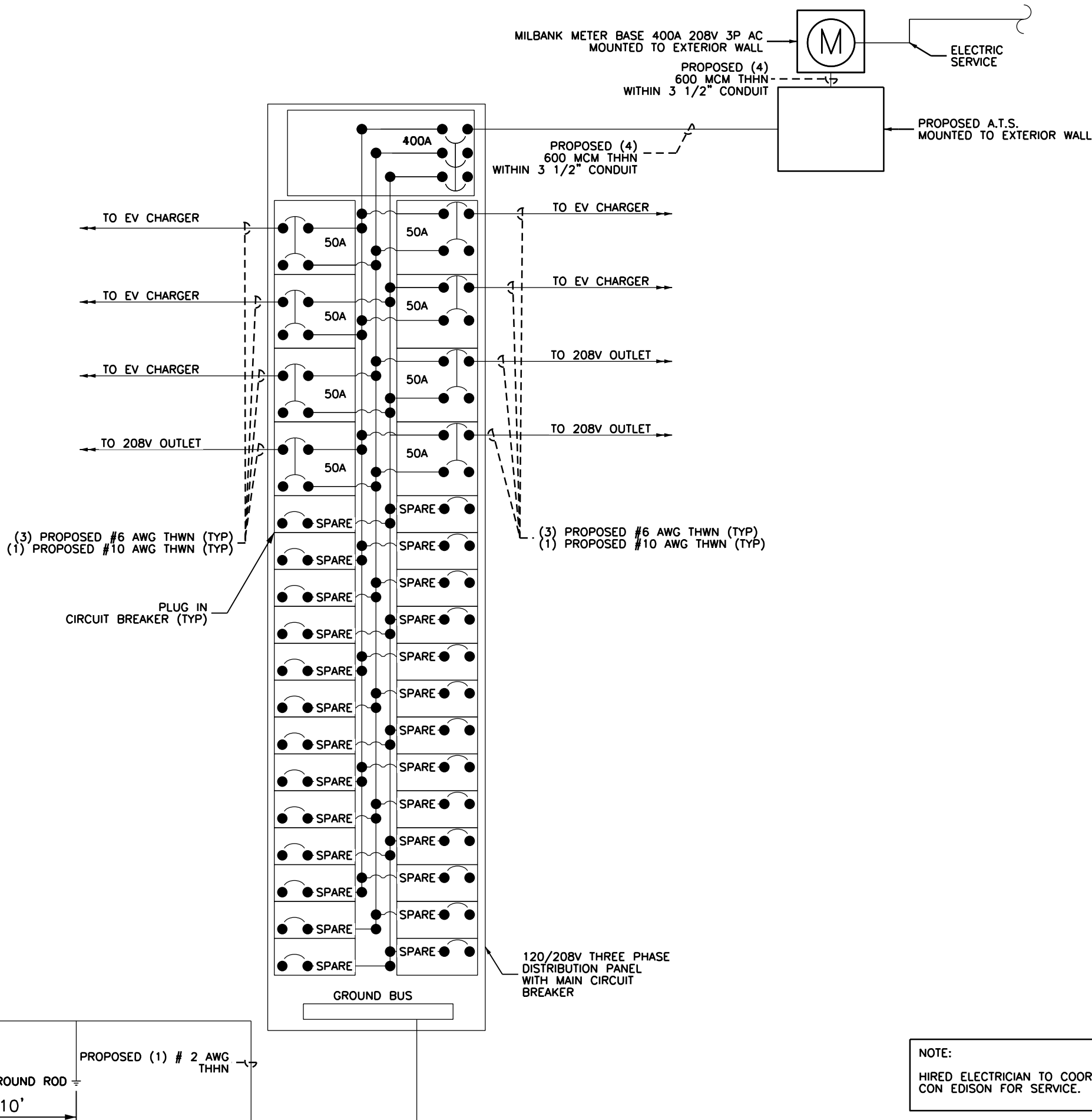
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SPECIFICATIONS

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NOTE:
HIRED ELECTRICIAN TO COORDINATE WITH CON EDISON FOR SERVICE.



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ELECTRICAL DETAILS

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1 BREAKER SCHEDULE

11x17 SCALE: NTS

22x34 SCALE: NTS

DIVISION 26 - ELECTRICAL NOTES:

1) GENERAL REQUIREMENTS

ALL REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND THE SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO BECOME THOROUGHLY FAMILIAR WITH ALL ITS CONTENTS AS TO REQUIREMENTS WHICH AFFECT THE DIVISION. THE WORK REQUIRED UNDER THIS DIVISION INCLUDES ALL MATERIAL, EQUIPMENT, APPLIANCES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS, OR INFERRED TO BE NECESSARY TO FACILITATE EACH SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED.

2) INSPECTION OF SITE

THE CONTRACTOR SHALL PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

3) MATERIAL AND WORKMANSHIP

ALL MATERIAL AND APPARATUS SHALL BE NEW AND IN FIRST CLASS CONDITION. ALL MATERIAL AND APPARATUS SHALL HAVE MARKINGS OR A NAME PLATE IDENTIFYING THE MANUFACTURER AND PROVIDING SUFFICIENT REFERENCE TO ESTABLISH QUALITY, SIZE, AND CAPACITY. ALL WORKMANSHIP SHALL BE OF THE FINEST POSSIBLE BY EXPERIENCED MECHANICS OF THE PROPER TRADE. IN GENERAL ALL MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTABLE. ALL HOISTS, SCAFFOLDS, STAGING, RUNWAYS, TOOLS, MACHINERY, AND EQUIPMENT REQUIRED FOR THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE FURNISHED BY THIS CONTRACTOR. MATERIAL AND EQUIPMENT SHALL BE STORED AND MAINTAINED IN CLEAN CONDITION, AND PROTECTED FROM WEATHER, MOISTURE, AND PHYSICAL DAMAGE. ALL MATERIALS SHALL BE NEW YORK APPROVED.

4) COORDINATION

THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS AND SUBCONTRACTORS SO THAT THE VARIOUS COMPONENTS OF THE ELECTRICAL SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO ALL EQUIPMENT. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND TO RELEVANT EQUIPMENT DRAWINGS TO DETERMINE THE EXTENT OF CLEAR SPACES. THE CONTRACTOR SHALL MAKE ALL OFFSETS REQUIRED TO CLEAR EQUIPMENT, BEAMS AND OTHER STRUCTURAL MEMBERS AND TO FACILITATE CONCEALING CONDUIT IN THE MANNER ANTICIPATED IN THE DESIGN. THE CONTRACTOR SHALL PROVIDE MATERIALS WITH TRIM WHICH WILL FIT PROPERLY THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED.

5) DIMENSIONS AND LAYOUTS

THE DRAWINGS ARE SCHEMATIC IN NATURE, BUT SHOW THE VARIOUS COMPONENTS OF THE SYSTEMS APPROXIMATELY TO SCALE AND ATTEMPT TO INDICATE HOW THEY ARE TO BE INTEGRATED WITH OTHER PARTS OF THE BUILDING. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. DETERMINE EXACT LOCATIONS BY JOB MEASUREMENTS, BY CHECKING THE REQUIREMENTS OF OTHER TRADES AND BY REVIEWING ALL CONTRACT DOCUMENTS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS WHICH COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

6) ORDINANCES AND CODES

CONTRACTORS PERFORMANCE, WORKMANSHIP, AND MATERIALS SHALL COMPLY WITH THE LOCAL CONSTRUCTION CODES, NATIONAL ELECTRIC CODE, AND/OR ALL OTHER APPLICABLE CODES AND ORDINANCES. CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTION OF SERVICES, OBTAIN AND PAY FOR ALL PERMITS.

7) SUBSTITUTIONS

THIS SPECIFICATION PROVIDES THAT THE BASE BID OF ALL CONTRACTORS SHALL INCLUDE THE PRODUCTS SPECIFICALLY NAMED, THE CONTRACTOR BEING PERMITTED TO SUBMIT IN THE FORM OF ALTERNATES, WITH HIS PROPOSAL, OF ANY OTHER MANUFACTURERS FOR SIMILAR USE, PROVIDED THE DIFFERENCE IN COST, IF ANY, IS SPECIFIED IN EACH CASE. THE TERMS "APPROVED" "APPROVED EQUAL", OR "EQUAL" SHALL MEAN APPROVED BY THE ENGINEER AS AN ACCEPTABLE ALTERNATE BID. NO SUBSTITUTIONS WILL BE CONSIDERED THAT ARE NOT BID AS AN ALTERNATE.

8) ADJUSTING, ALIGNING AND TESTING

ALL ELECTRICAL EQUIPMENT ON THIS PROJECT FURNISHED THIS DIVISION AND ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHERS SHALL BE ADJUSTED, ALIGNED AND TESTED FOR PROPER OPERATION BY THE ELECTRICAL CONTRACTOR. COMPLETE WIRING SYSTEMS SHALL BE FREE FROM SHORT CIRCUITS. ALL MOTORS SHALL BE VERIFIED FOR PROPER ROTATION.

9) OPERATION AND MAINTENANCE INSTRUCTIONS

SUBMIT TO THE OWNER THREE COPIES EACH OF MATERIAL FOR MAINTENANCE AND OPERATION INSTRUCTION MANUALS, APPROPRIATELY BOUND INTO MANUAL FORM INCLUDING APPROVED COPIES OF MANUFACTURERS CATALOG SHEETS, WIRING DIAGRAMS, MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS, AND PARTS LISTS, REVISED IF NECESSARY TO SHOW SYSTEM AND EQUIPMENT AS ACTUALLY INSTALLED. CONTRACTOR SHALL ALSO PROVIDE ADEQUATE VERBAL INSTRUCTIONS OF SYSTEM OPERATION TO OWNERS' REPRESENTATIVE AT THE TERMINATION OF THE WORK.

10) START UP OF SYSTEMS

PRIOR TO START-UP OF THE ELECTRICAL SYSTEMS, THE CONTRACTOR SHALL CHECK ALL COMPONENTS AND DEVICES, LUBRICATE ITEMS ACCORDINGLY, AND TIGHTEN ALL SCREWED AND BOLTED CONNECTIONS. ADJUST TAPS ON EACH TRANSFORMER FOR RATED SECONDARY VOLTAGE. CHECK AND RECORD BUILDING'S SERVICE ENTRANCE VOLTAGE, GROUNDING CONDITIONS, GROUNDING RESISTANCE, AND PROPER PHASING, BALANCE ALL SINGLE PHASE LOADS AT EACH PANEL BOARD, REDISTRIBUTING BRANCH CIRCUIT CONNECTIONS UNTIL BALANCE IS ACHIEVED. REPLACE ALL BURNED-OUT LAMPS AFTER ALL SYSTEMS HAVE BEEN INSPECTED AND ADJUSTED, CONFIRM ALL OPERATING FEATURES REQUIRED BY THE DRAWINGS AND SPECIFICATIONS AND MAKE FINAL ADJUSTMENTS AS NECESSARY.

11) GUARANTEE

AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL PAYMENT. SHALL INCLUDE MATERIAL TO BE REPLACED AND ALL LABOR REQUIRED.

12) INSPECTIONS

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND PAYING FOR ALL ELECTRICAL INSPECTIONS.

13) CLEANING

DIRT AND REFUSE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REMOVED FROM THE PREMISES AS REQUIRED TO PREVENT ACCUMULATION. THE CONTRACTOR SHALL COOPERATE IN MAINTAINING REASONABLY CLEAN PREMISES AT ALL TIMES. IMMEDIATELY PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL MAKE A FINAL CLEANUP OF DIRT AND REFUSE FROM HIS WORK. THE CONTRACTOR SHALL CLEAN ALL MATERIAL AND EQUIPMENT INSTALLED UNDER THE ELECTRICAL CONTRACT. DUST, PLASTER, STAINS AND FOREIGN MATTER SHALL BE REMOVED FROM ALL SURFACES. DAMAGED FINISHES SHALL BE TOUCHED AND RESTORED TO THEIR ORIGINAL CONDITION.

14) CUTTING AND PATCHING

THIS CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. CONTRACTOR SHALL OBTAIN PERMISSION OF THE OWNER BEFORE DOING ANY CUTTING. ALL HOLES SHALL BE CUT AS SMALL AS POSSIBLE. CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. ALL PATCHING SHALL BE THOROUGHLY FIRST CLASS AND SHALL MATCH THE ORIGINAL, MATERIAL AND CONSTRUCTION. ALL CORE DRILLING SHALL REQUIRE LOCATING REBAR VIA X-RAY.

15) ROUGH-IN

COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH GENERAL CONSTRUCTION. ALL CONDUIT ROUGH-IN SHALL BE CONCEALED EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

16) CONDUIT

ALL CONDUIT SHALL BE RUN CONCEALED EXCEPT WHERE OTHERWISE NOTED. ALL CONDUIT RUN EXPOSED TO WEATHER, OR OTHER HAZARDOUS CONDITIONS SHALL BE RIGID GALV. PAINTED STEEL. ALL OTHER CONDUIT MAY BE E.M.T W/ COMPRESSION FITTINGS WHERE APPROVED BY LOCAL CODE. FINAL CONNECTION TO EACH MOTOR AND TO ANY DEVICE WHICH WOULD OTHERWISE TRANSMIT MOTION, VIBRATION, OR NOISE, SHALL BE IN FLEXIBLE METAL CONDUIT, WHERE FLEXIBLE METAL CONDUIT IS EXPOSED TO LIQUIDS, VAPORS OR SUNLIGHT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED. ALL FLEXIBLE METAL CONDUIT SHALL BE PROVIDED WITH AN INSULATED GROUND WIRE.



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COLLEEN CONNOLLY
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CONSTRUCTION DOCUMENTS

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HASTINGS-ON-HUDSON
MUNICIPAL BUILDING
SITE ADDRESS:
7 MAPLE AVE # 1
HASTINGS-ON-HUDSON, NY 10706
PARCEL ID#:
4.30-20-1
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1 ELECTRICAL NOTES

11x17 SCALE: NTS 22x34 SCALE: NTS

17) CONDUIT INSTALLATION

- A. ALL WIRING SHALL BE RUN IN CONDUIT, EXPOSED AND CONCEALED INSTALLATION.
- B. CONDUIT SHALL BE CONCEALED IN WALLS OR FLOORS WHEREVER POSSIBLE. ALL CONDUIT RUNS ARE PARALLEL IN SPACE.
- C. CONDUIT SHALL BE INSTALLED TO REQUIREMENTS OF STRUCTURE AND TO REQUIREMENTS OF ALL OTHER WORK ON THE PROJECT. CONDUIT SHALL BE INSTALLED TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, REINFORCING STEEL, ETC. CONDUIT SET IN FORMS FOR CONCRETE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT INSTALLATION WILL NOT AFFECT THE STRENGTH OF THE STRUCTURE. EXCEPT WHERE APPROVED IN WRITING BY THE ARCHITECT, NO CONDUIT SHALL BE RUN IN A SLAB ON GRADE. CONDUIT SHALL BE LOCATED IN GRANULAR FILL BELOW SLABS-ON GRADE.
- D. CONDUITS SHALL BE INSTALLED CONTINUOUS BETWEEN CONNECTIONS TO OUTLETS, BOXES AND CABINETS WITH A MINIMUM POSSIBLE NUMBER OF BENDS AND NOT MORE THAN THE EQUIVALENT OF FOUR 90° BENDS BETWEEN CONNECTIONS. BENDS SHALL BE SMOOTH AND EVEN AND SHALL BE MADE WITHOUT FLATTENING CONDUIT OR FLAKING ENAMEL. RADIUS OF BENDS SHALL BE AS LONG AS POSSIBLE AND NEVER SHORTER THAN THE CORRESPONDING TRADE ELBOW. LONG RADIUS ELBOWS SHALL BE USED WHERE NECESSARY.
- E. CONDUITS SHALL BE SECURELY FASTENED IN PLACE WITH APPROVED STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. SINGLE CONDUITS FOR FEEDERS SHALL BE HUNG WITH MALLEABLE SPLIT RING HANGERS WITH ROD AND TURNBUCKLE SUSPENSION FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE. GROUPS OF HORIZONTAL FEEDER CONDUITS SHALL BE CLAMPED TO UNISTRUT STEEL CHANNELS AND SUSPENDED FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE. VERTICAL FEEDER CONDUITS SHALL BE SECURELY CLAMPED TO STRUCTURAL STEEL MEMBERS ATTACHED TO STRUCTURE. CABLE CLAMPS SHALL BE INSTALLED FOR SUPPORT OF VERTICAL FEEDERS WHERE REQUIRED. CONDUIT SUPPORTS SHALL BE ADDED WITHIN 12" AT ONE END OF ALL BENDS. CONDUIT SHALL NOT BE SUPPORTED FROM SUSPENDED CEILING COMPONENTS.
- F. CONDUIT ENDS SHALL BE REAMED BEFORE INSTALLATION AND ALL CONDUIT SHALL BE THOROUGHLY CLEANED BEFORE INSTALLATION AND KEPT CLEAN AFTER INSTALLATION. OPENINGS AND BOXES SHALL BE PLUGGED OR COVERED AS REQUIRED TO KEEP CONDUIT CLEAN DURING CONSTRUCTION AND ALL CONDUIT SHALL BE FISHED CLEAR OF OBSTRUCTIONS BEFORE THE PULLING OF WIRES. ALL CONDUIT SHALL BE OF AMPLE SIZE FOR PULLING OF WIRE AND SHALL NOT BE SMALLER THAN CODE REQUIREMENTS AND NOT LESS THAN 1/2" IN SIZE.
- G. ALL ELECTRICAL WORK SHALL BE PROTECTED AGAINST DAMAGE DURING CONSTRUCTION. ANY WORK DAMAGED OR MOVED OUT OF LINE AFTER ROUGHING-IN SHALL BE REPAIRED TO MEET ENGINEER'S APPROVAL WITHOUT ADDITIONAL COST TO THE OWNER.
- H. CONDUIT TERMINATIONS AT PANEL BOARDS AND JUNCTION BOXES SHALL BE ALIGNED AND INSTALLED TRUE AND PLUMB.
- I. INSTALL APPROVED EXPANSION FITTING WHERE CONDUIT OR EMT PASSES THROUGH EXPANSION JOINTS.
- J. INSTALL A PULL WIRE IN EACH EMPTY CONDUIT WHICH IS LEFT BY THE CONTRACTOR FOR INSTALLATION OF WIRES OR CABLES BY OTHERS.
- K. MAKE ALL JOINTS AND CONNECTIONS IN A MANNER WHICH WILL INSURE MECHANICAL STRENGTH AND ELECTRICAL CONTINUITY.
- L. THRU-WIRING OF LIGHT FIXTURES IS NOT PERMITTED.

18) BUSHINGS AND LOCKNUTS

WHERE CONDUITS ENTER BOXES, THEY SHALL BE RIGIDLY CLAMPED TO THE BOX BY A BUSHING ON THE INSIDE AND A LOCKNUT ON THE OUTSIDE, AND CONDUIT SHALL ENTER THE BOX SQUARELY. BUSHINGS AND LOCKNUTS SHALL BE MADE OF GALVANIZED MALLEABLE IRON AND SHALL HAVE SHARP, CLEAN-CUT THREADS. WHERE THIN-WALL CONDUIT ENTERS A BOX, PROVIDE E.M.T. CONNECTORS. USE INSULATED GROUNDING BUSHINGS WHEREVER CONNECTION IS SUBJECT TO VIBRATION OR MOISTURE.

19) WIRE

ALL WIRE SHALL HAVE COPPER CONDUCTORS, WITH U.L. LABEL, AND 600 VOLT INSULATION. ALL WIRE SHALL BE RUN IN CONDUIT. ALL FEEDER AND BRANCH CIRCUIT WIRE #8 AWG AND LARGER SHALL BE TYPE THWN OR XHHW, BOTH WITH STRANDED CONDUCTORS. ALL WIRE #10 AWG AND SMALLER SHALL BE TYPE THWN (WET OR DAMP LOCATIONS OR THHN, DRY LOCATIONS ONLY AND ABOVE GRADE), BOTH WITH SOLID CONDUCTORS. WIRE WITHIN FLUORESCENT FIXTURE CHANNELS SHALL BE TYPE THHN. ALL BRANCH CIRCUIT WIRING SHALL NOT BE SMALLER THAN #12 AWG WIRE. CONTROL WIRING SHALL HAVE 600V INSULATION AND BE OF THE PROPER TYPE, SIZE AND NUMBER AS REQUIRED TO ACCOMPLISHED SPECIFIED FUNCTION.

20) WIRING INSTALLATION

- A. ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAY AND ENCLOSURES.
- B. SUPPORT ALL WIRE AND CABLES IN VERTICAL INSTALLATIONS AS REQUIRED BY CODE BY INSTALLING CABLE SUPPORTERS OR PLUG-TYPE CONDUIT RISER SUPPORTS.
- C. ALL WIRE AND CABLE IN CONDUIT SHALL BE CONTINUOUS WITHOUT TAPS OR SPLICES. ALL SPLICES OR TAPS SHALL OCCUR IN APPROVED BOXES AND ENCLOSURES AND SHALL BE KEPT TO THE MINIMUM REQUIRED, AND SHALL BE MADE UP WITH APPROVED SOLDERLESS CONNECTORS. ALL SPLICES, TAPS, AND JOINTS SHALL BE INSULATED AS REQUIRED BY CODE.
- D. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS SHALL BE DESIGNED FOR, PROPERLY SIZED FOR, AND U.L LISTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS INVOLVED, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.

- E. WHERE WIRE IS INDICATED TO BE INSTALLED, BUT THE CONNECTION IS INDICATED "FUTURE" OR "BY OTHERS", CONTRACTOR SHALL LEAVE A MINIMUM OF 3 FEET OF "PIGTAIL" AT THE BOX, TAPE THE ENDS OF THE CONDUCTORS, AND COVER THE BOX.
- F. THE NUMBER OF CURRENT CARRYING CONDUCTORS IN A SPECIFIC CONDUIT RUN ARE INDICATED WITH CROSS LINES ON EACH "CONDUIT RUN" ON THE DRAWINGS. IN GENERAL, DIRECTION OF BRANCH CIRCUIT "HOME RUN" ROUTING IS INDICATED ON THE DRAWINGS, COMPLETE WITH CIRCUIT NUMBERS AND PANEL BOARD DESIGNATION. THE CONTRACTOR SHALL CONTINUE ALL SUCH "HOME RUN" WIRING TO THE DESIGNATED PANEL BOARD, AS THOUGH "CONDUIT RUNS" WERE INDICATED IN THEIR ENTIRETY.
- G. CONDUCTORS SHALL HAVE INSULATION OF THE PROPER COLOR TO MATCH N.E.C COLOR CODE SYSTEM. IN LARGER WIRE SIZES WHERE PROPERLY COLORED INSULATION IS NOT AVAILABLE, THE CONTRACTOR SHALL USE VINYL PLASTIC ELECTRICAL TAPE OF THE APPROPRIATE COLOR AROUND EACH CABLE AT ALL TERMINATION POINTS, JUNCTION AND PULL BOXES.
- H. ALL TERMINAL BLOCKS AND WIRE TERMINALS FOR CONTROL WIRING SHALL BE PROPERLY NUMBERED FOR IDENTIFICATION WITH VINYL STICK-ON MARKERS OR EQUIVALENT.
- I. ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR INSTALLED IN THE BRANCH CIRCUIT RACEWAY, SIZED IN ACCORDANCE WITH N.E.C TABLE 250-95.
- J. VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 2%.
- K. HOMERUNS AND BRANCH CIRCUIT WIRING FOR 208V CIRCUITS SHALL BE AS FOLLOWS:

LENGTH - FT	HOMERUN WIRE SIZE
0-50	#12
51-100	#10
101-150	#8
151-200	#4

21) JUNCTION BOXES, PULL BOXES, CABINETS AND WIREWAYS

PROVIDE JUNCTION BOXES, PULL BOXES, CABINETS, AND WIREWAYS WHEREVER NECESSARY FOR PROPER INSTALLATION OF VARIOUS ELECTRICAL SYSTEMS ACCORDING TO THE NATIONAL ELECTRICAL CODE AND WHERE INDICATED ON THE DRAWINGS. SIZE AS REQUIRED FOR THE SPECIFIC FUNCTION OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, WHICHEVER IS LARGEST. CONSTRUCTION SHALL BE OF A NEMA DESIGN SUITABLE FOR THE ENVIRONMENT INSTALLED.

22) OUTLET BOXES

ALL OUTLETS INCLUDING LIGHT, SWITCH, RECEPTACLE, AND SIMILAR OUTLETS, SHALL BE NATIONAL ELECTRICAL, APPLETON, STEEL CITY, RACO OR APPROVED EQUAL GALVANIZED STEEL KNOCKOUT BOXES, SUITABLE IN DESIGN TO THE PURPOSE THEY SERVE AND THE SPACE THEY OCCUPY. SIZE AS REQUIRED FOR THE SPECIFIC FUNCTION OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, WHICHEVER IS LARGEST. ALL OUTLET BOXES SHALL BE ACCURATELY SET AND RIGIDLY SECURED IN POSITION.

23) EQUIPMENT IDENTIFICATION

THE CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT IDENTIFICATION NAMEPLATES ON ALL PANELBOARDS, TIMESWITCHES, ETC. INCLUDING SWITCHES IN DISTRIBUTION PANELS, OUTLETS, PHONE/DATA & LIGHT SWITCHES: NAMEPLATES SHALL BE ENGRAVED PHENOLIC PLASTIC, AND SHALL BE FIRMLY ATTACHED TO THE EQUIPMENT. NAMEPLATES SHALL CLEARLY IDENTIFY EACH ITEM AND WHAT IT CONTROLS.

24) ELECTRICAL SERVICE

SEE DRAWINGS FOR TYPE, SIZE, VOLTAGE, PHASE, ETC.

25) GROUNDING

THE ELECTRICAL SERVICE, ALL EQUIPMENT, CONDUCTORS, CONDUITS, MOTOR FRAMES, ETC. IN THIS CONTRACT WHICH REQUIRE GROUNDING SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED BY THIS CONTRACTOR IN A THOROUGH AND EFFICIENT MANNER IN CONFORMANCE TO THE ELECTRICAL CODE AND/OR NATIONAL ELECTRICAL CODE, WHICH EVER IS MORE STRINGENT.

26) DISCONNECT SWITCHES

CONTRACTOR SHALL FURNISH AND INSTALL SQUARE D OR GENERAL ELECTRIC FUSED OR NON-FUSED (AS NOTED OR REQUIRED) NEMA HEAVY DUTY EXTERNALLY OPERATED SAFETY SWITCHED WHERE NOT FURNISHED WITH THE STARTING EQUIPMENT, AND AT ALL OTHER POINTS REQUIRED BY CODE. FUSE HOLDERS SHALL HAVE CLASS R REJECTION FEATURE. CONSTRUCTION SHALL BE OF A NEMA DESIGN SUITABLE FOR THE ENVIRONMENT INSTALLED IN, INDOOR NEMA-12, EXTERIOR NEMA-4X.

27) NEW ELECTRIC SERVICE

1. ALL WORK INVOLVING THE ELECTRICAL SERVICE SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE ELECTRIC SERVICE MODIFICATIONS.
2. NOTIFY THE CLIENT AND OWNER IN WRITING AT LEAST TWO WEEKS IN ADVANCE OF ANY INTERRUPTION OF SERVICE IN THE BUILDING. INFORM THE CLIENT AND OWNER OF THE DURATION OF THE SHUTDOWN. ALL WORK INVOLVING A SHUTDOWN SHALL BE PERFORMED DURING PREMIUM TIME, AT NO ADDITIONAL COST TO THE CLIENT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING THE PROJECT WITH THE ADVISORY BOARD OF THE LOCAL MUNICIPALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF NECESSARY DRAWINGS, FORMS, AND ALL ASSOCIATED FEES.



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