

GENERAL CONSTRUCTION NOTES

- DO NOT SCALE DRAWING TO OBTAIN DIMENSIONS.
- ALL WORK MUST BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR OWNER, EMPLOYEES, AND THE PUBLIC SAFETY.
- CONTRACTOR MUST PROVIDE DUST AND ACCESS BARRICADES AS REQUIRED SO AS TO PROTECT PROPERTY, ADJACENT STRUCTURES, UTILITIES, STREETS, PEDESTRIANS, AND THE GENERAL PUBLIC.
- CONTRACTOR MUST CONFIRM ALL FIELD CONDITIONS AND DIMENSIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THEM.
- IF WORK EXPOSES ANY CRACKS, SEPARATIONS, OR OPENINGS, THEN THE CONTRACTOR WILL NOTIFY THE ENGINEER, WILL CLEAN AND FILL WITH NON-CRINK GROUT, AND WILL FOLLOW ENGINEER'S OTHER INSTRUCTIONS.
- CONTRACTOR MUST FURNISH ALL NECESSARY AND REQUIRED TEMPORARY OR PERMANENT SHORING, BRACING, SUPPORTS, ETC.
- CONTRACTOR MUST NOTIFY ENGINEER OF ANY AND ALL DIFFERING SITE CONDITIONS.
- THE ENGINEER IS NOT IN CHARGE OR RESPONSIBLE FOR THE CONSTRUCTION METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE CONSTRUCTION WORK OR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OWNER OR ANY OTHER PERSON PERFORMING ANY WORK, OR FAILURE OF ANYONE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CODES.
- THE ENGINEER IS NOT RESPONSIBLE FOR SITE CONDITIONS. PRIOR TO BIDDING OR CONSTRUCTION, CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SITE CONDITIONS AND DIMENSIONS ON THE DRAWINGS AND NOT ON THE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.
- ALL WORK MUST CONFORM TO THE IBC 2018 AND IRC 2018.
- SIZE AND/OR LOCATION OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY BY FIELD MEASUREMENTS AND INVESTIGATION THE SIZE AND/OR LOCATION OF ALL EXISTING STRUCTURES AND UTILITIES.

EXISTING CONDITIONS NOTES

- ALL EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS IS PROVIDED FOR REFERENCE ONLY. EXISTING CONSTRUCTION, DIMENSIONS, LOCATIONS, ELEVATIONS, ETC. MUST BE VERIFIED IN THE FIELD (VIF) PRIOR TO REMOVAL OR MODIFICATION OF ANY EXISTING STRUCTURAL MEMBER AND SHOP DRAWING PREPARATION, FABRICATION, AND CONSTRUCTION OF NEW WORK.
- SHOULD EXISTING CONDITIONS DIFFER FROM THAT SHOWN ON THE CONTRACT DOCUMENTS, CONTRACTOR MUST NOTIFY THE ENGINEER PRIOR TO CONTINUATION OF WORK.
- EXISTING STRUCTURAL MEMBERS MUST NOT BE CUT OR MODIFIED UNLESS SPECIFICALLY SHOWN HEREIN OR UNLESS PRIOR WRITTEN APPROVAL BY THE ENGINEER IS OBTAINED.
- CONTRACTOR MUST TAKE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING STRUCTURE AND ADJACENT STRUCTURES FROM DAMAGE DURING SHORING, LIFTING, EXCAVATING, DEMOLITION, AND CONSTRUCTION OF NEW WORK.
- EXISTING STRUCTURAL DOCUMENTS ARE NOT AVAILABLE. VERIFY IN FIELD (VIF) EXISTING CONDITIONS, STRUCTURAL MEMBER SIZES, AND LOCATIONS, PRIOR TO NEW WORK.

MEANS AND METHODS NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MEANS AND METHODS FOR THE CONSTRUCTION OF THE PROJECT.
- THE CONTRACTOR MUST ENGAGE A PROFESSIONAL ENGINEER FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SCAFFOLDING, SHORING, UNDERPINNING, TEMPORARY BRACING, HOISTING, AND STORING OF EQUIPMENT OR MATERIAL ON THE EXISTING STRUCTURE.
- THE CONTRACTOR'S ENGINEER MUST REFER TO SITE STANDARDS AND GUIDELINES FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR MUST INSPECT, ACCESS, AND VERIFY THE EXISTING CONDITIONS AND EXTENT OF WORK PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION OF NEW WORK.
- THE CONTRACTOR MUST PROVIDE NECESSARY EQUIPMENT AND PERTINENT MATERIAL, INCLUDING BUT NOT LIMITED TO LADDERS, LIFTS, AND OTHER CONSTRUCTION EQUIPMENT FOR THE COMPLETION OF THE WORK INDICATED ON THE CONTRACT DOCUMENTS.
- THE CONTRACTOR MUST PROVIDE SAFETY AND FALL PROTECTION IN ACCORDANCE WITH OSHA REGULATIONS AND SITE SAFETY GUIDELINES.

HELICAL PILE NOTES

- HELICAL PILES SHALL BE MANUFACTURED BY RAM JACK (OR EQUIVALENT).
- PILES SHALL BE INSTALLED BY AN AUTHORIZED RAM JACK (OR EQUIVALENT) INSTALLATION CONTRACTOR WHO HAS SATISFIED THE CERTIFICATION REQUIREMENTS RELATING TO TECHNICAL ASPECTS OF THE PRODUCT AND THE ASSOCIATED INSTALLATION TECHNIQUES. PROOF OF CURRENT CERTIFICATION BY RAM JACK (OR EQUIVALENT) MUST BE PROVIDED.
- ALL WORK AS DESCRIBED HEREIN SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES IN EFFECT AT THE TIME OF INSTALLATION.
- HELICAL PILES AS SPECIFIED SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE. SEE ICC EVALUATION REPORT.
- THE HELICAL LEAD SECTIONS AND EXTENSION SECTIONS SHALL BE SOLID STEEL, ROUND CORNERED SQUARE SHAFT, ROUND STEEL PIPE SHAFT, OR COMPOSIT STEEL AND GROUT SHAFT CONFIGURED WITH ONE OR MORE HELICAL BEARING PLATES WELDED TO THE SHAFT.
- ALL PILES MUST BE CORROSION PROTECTED BY HOT DIP GALVANIZATION, CONFORMING TO ASTM A153/A123, OR EQUIVALENT.
- INSTALLATION UNITS SHALL CONSIST OF A ROTARY TYPE TORQUE MOTOR WITH FORWARD AND REVERSE CAPABILITIES. THESE UNITS ARE TYPICALLY POWERED.
- INSTALLATION UNITS SHALL BE CAPABLE OF DEVELOPING THE MINIMUM TORQUE AS REQUIRED.
- INSTALLATION UNITS SHALL BE CAPABLE OF POSITIONING THE HELICAL PILE AT THE PROPER INSTALLATION ANGLE. THIS ANGLE MAY VARY BETWEEN VERTICAL AND 5 DEGREES DEPENDING ON THE APPLICATION AND TYPE OF LOAD TRANSFER SPECIFIED OR REQUIRED.
- HELICAL PILES SHALL BE INSTALLED TO THE MINIMUM TORQUE VALUE REQUIRED TO PROVIDE THE LOAD CAPACITIES SHOWN ON THE PLANS.
- APPROPRIATE HELICAL PILE SELECTION WILL CONSIDER DESIGN LOAD PLUS SAFETY FACTOR, SOIL PARAMETERS, AND THE INSTALLATION TORQUE VS. CAPACITY EQUATION AS PER THE MANUFACTURER.
- DESIGN OF THE HELICAL PILES AND ANCHORS SHALL BE PERFORMED BY AN ENTITY AS REQUIRED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS OR ESTABLISHED LOCAL PRACTICES. THIS DESIGN WORK MAY BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER, A CERTIFIED RAM JACK (OR EQUIVALENT) DEALER, OR DESIGNER DEPENDING ON LOCAL REQUIREMENTS OR PRACTICES.
- GROUT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150 TYPE I OR TYPE II WITH WATER/CEMENT RATIO OF 0.45.
- IT IS RECOMMENDED THAT PRODUCTION TEST PILES BE PERFORMED TO VERIFY THE SUITABILITY AND CAPACITY OF THE PROPOSED HELICAL PILE, AND THE PROPOSED INSTALLATION PROCEDURES PRIOR TO INSTALLATION. THE TEST IS TO EMPIRICALLY VERIFY THE ULTIMATE CAPACITY TO THE AVERAGE INSTALLING TORQUE OF THE HELICAL PILE FOR THE PROJECT SITE.
- A TORQUE INDICATOR SHALL BE USED DURING HELICAL PILE INSTALLATION AND SHALL BE CAPABLE OF PROVIDING CONTINUOUS MEASUREMENT OF APPLIED TORQUE THROUGHOUT THE INSTALLATION.
- IF THE MINIMUM INSTALLATION TORQUE AS SHOWN ON THE CONTRACT DRAWINGS IS NOT ACHIEVED AT THE MINIMUM OVERALL LENGTH, THE CONTRACTOR SHALL INSTALL THE PILE DEEPER, ADD MORE OR LARGER HELIX PLATES, DE-RATE THE LOAD CAPACITY OF THE HELICAL PILE, AND/OR INSTALL ADDITIONAL PILES AT THE DISCRETION OF THE ENGINEER AND/OR OWNER.
- INSTALL PILES TO ULTIMATE CAPACITY OF 15 KIPS.
- DEPTH SHOWN ON PLANS IS MINIMUM UNLESS REFUSAL OCCURS PRIOR TO THIS DEPTH.
- EXTEND PILE, AS REQUIRED, TO OBTAIN SPECIFIED CAPACITY.
- PROVIDE PILE INSTALLATION WITNESSING, PILE LOG, AND PILE CERTIFICATION UPON COMPLETION OF PILE INSTALLATION.



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PROPOSED
CHIMNEY FOUNDATION REPAIRS

FOR

REVISIONS:

SCALE: AS SHOWN

DRAWN BY:

DATE:

PROJECT NO.

DRAWING NO.

S-1

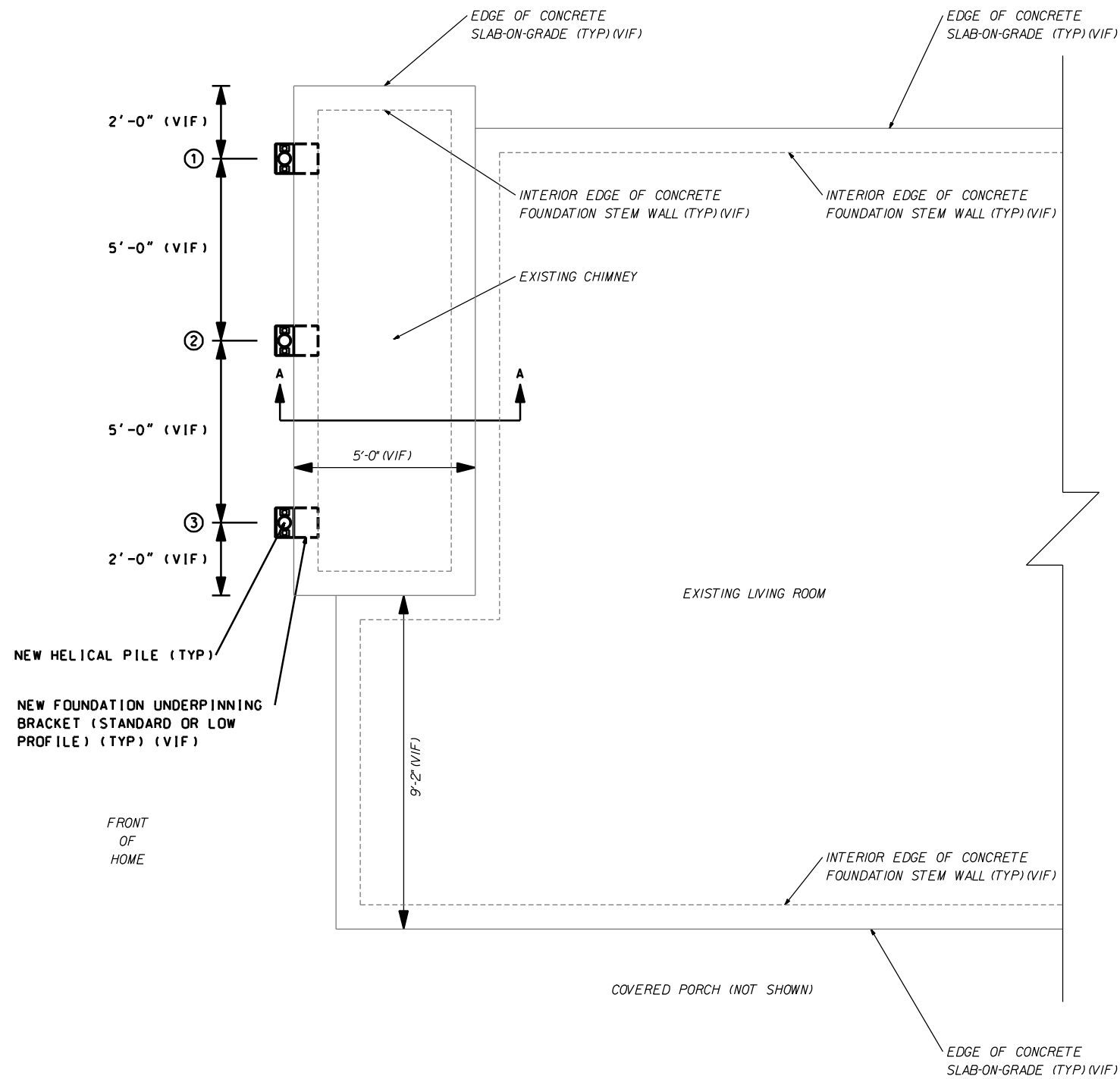
(VIF) = VERIFY IN FIELD BY CONTRACTOR, PROJECT MANAGER, AND OWNER PRIOR TO START OF ANY WORK.



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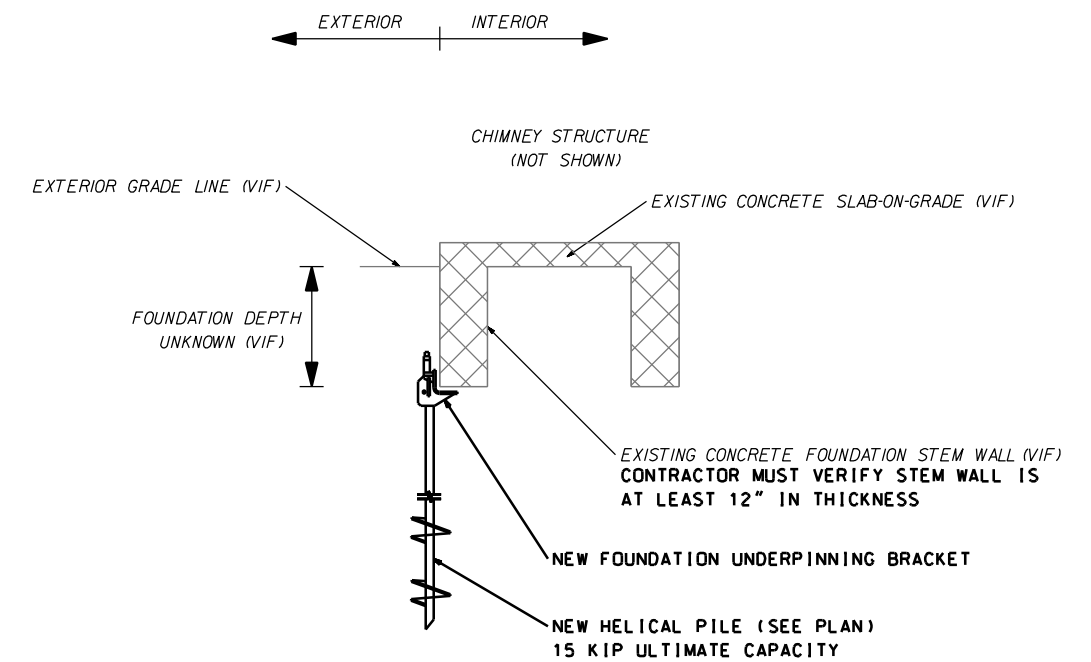
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EXISTING PARTIAL FOUNDATION PLAN (SCHEMATIC)

SCALE: 1/2" = 1'



NOTE: SEE HELICAL PILE NOTES ON SHEET 1

TYPICAL HELICAL PILE SECTION A-A

SCALE: NTS

<p>PROPOSED</p> <p>CHIMNEY FOUNDATION REPAIRS</p> <p>FOR</p>	REVISIONS:
SCALE: AS SHOWN	
DRAWN BY:	
DATE:	
PROJECT NO.	
DRAWING NO.	
S-2	