



DATE: June 6, 2019

FROM: Wight & Company
2500 N. Frontage Road
Darien, IL 60561

SUBJECT: ADDENDUM #2 TO THE BIDDING DOCUMENTS FOR:
BID GROUP #6
MASTER FACILITY PLAN IMPLEMENTATION
COMMUNITY HIGH SCHOOL DISTRICT 99
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

Wight & Company
wightco.com
.....
2500 North Frontage Road
Darien, IL 60561
.....
P 630.969.7000
F 630.969.7979

This addendum forms a part of the Bidding Contract Documents, dated May 10, 2019. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form.

Revised BP1 Excavation & Site Utilities Scope
Revised BP1 Excavation & Site Utilities Bidform
Revised BP2 Concrete Scope

I. Clarifications

1. **QUESTION:** The Kohler only has a 5 year warranty. Will this be acceptable when your spec calls for a 7 year warranty? **ANSWER: This is acceptable.**
2. **QUESTION:** I need the fire pump motor HP and voltage in order to offer a budget price. Attachments do not provide this info. Are they putting a new fire pump in as well or just replacing the existing controller? If a new pump is being installed, the controller will be provided by the pump manufacturer per code. **ANSWER: The fire pump will remain. New controller per drawings and specifications.**
3. **QUESTION:** On South High School...could you provide a better description on what is actually required on the site side? **ANSWER: The site concrete scope includes all work shown on C2.01 as phase B (only the work south of the dashed line). Building concrete includes all work shown in the bid documents.**

II. Specifications

III. Modified Drawings

CIVIL

1. Sheet C4.01 UTILITY PLAN - SOUTH (**Full size sheet reissued**): Sanitary line added as indicated.
2. Sheet C4.05 UTILITY PROFILES PLAN - SOUTH (**Full size sheet issued**): New sheet issued for added sanitary line.

STRUCTURAL

3. Sheet S0.1B GENERAL NOTES AND MATERIAL ALLOWANCES (**Full size sheet reissued**):
 - a. Foundation allowances revised as clouded.
4. Sheet S1.2B TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**):
 - a. Typical expansion joint details added.
5. Sheet S1.3B TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**):
 - a. Typical expansion joint detail added.
6. Sheet S2.1B-C1 FOUNDATION PLAN -AREA C.1 (**Full size sheet reissued**):
 - a. Fire wall detail at Column Grid 99.B10 & 99.BA modified as clouded.
 - b. Frost stoops added along column line C.B.
7. Sheet S2.1B-C2 FOUNDATION PLAN -AREA C.2 (**Full size sheet reissued**):
 - a. Thickened slabs added as clouded.
 - b. Foundation wall at fire wall along column line grid 99.BA & C.C modified as clouded.
8. Sheet S2.1B-EP ENLARGED FOUNDATION PLANS (**Full size sheet reissued**):
 - a. Foundation plan modified as clouded in detail 5.
9. Sheet S2.2B-C1 2ND FLOOR FRAMING PLAN – AREA C.1 (**Full size sheet reissued**):
 - a. Dimensions provided for HSS at column grid C.4 & C.C.
10. Sheet S2.2B-SE 2ND FLOOR SLAB EDGE PLAN -AREA C.1 (**Full size sheet reissued**):
 - a. Slab edge dimension provided at bridge.
11. Sheet S3.2B NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**):
 - a. Slab edge details provided.

12. Sheet S3.3B NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**):

- a. Typical expansion joint detail provided.

This addendum consists of: (31) Text Pages (0) Specification Sections and (12) Modified Drawing Sheets.

END OF ADDENDUM

Scope – This TRADE CONTRACTOR’s scope shall include but not be limited to the scope listed below. Please see entirety of bid documents for all scope requirements.

BG6 BP1 SCOPE OF WORK FOR EXCAVATION & SITE UTILITIES –SOUTH HIGH SCHOOL (Phase B)

1. This TRADE CONTRACTOR shall reference ALL General, Logistics Plan, Civil, Structural, Architectural sheets included in this Bid Group 1 as they relate to Mass Grading, Excavation and Site Utilities This TRADE CONTRACTOR shall read all Specification Sections in this manual as well as Notes and General Notes included in the drawings as they pertain to this scope of work. This TRADE CONTRACTOR shall review the project SCHEDULE included in this project manual and provide sufficient manpower and equipment to complete this trade contractor’s scope of work within the designated durations provided.
2. This TRADE CONTRACTOR shall be responsible for furnishing all material, labor, supervision, layout and survey services associated with this work. Control points and CAD documents will be provided. The accurate layout of the radial foundations and sitework is the responsibility of this TRADE CONTRACTOR. If a professional surveyor is needed to accurately perform this scope of work, this shall be the responsibility of this TRADE CONTRACTOR..

NOTE: REFER TO C1.01 & C2.01 for extents of site work to be included in this scope of work known as Phase B.

NOTE: This TRADE CONTRACTOR shall be responsible for furnishing As-builts signed and sealed by a licensed engineer as well as inverts and locations of stormwater utility systems in this scope of work no later than 10 days after the work is completed. Refer to contract documents including As-Built Notes on drawing sheet C3.01 and project manual for further information.

3. This TRADE CONTRACTOR shall be responsible for **all** mass grading, earth moving, re-spread, hauling, importing, excavation, backfill and compaction, rough grading and fine grading of base to (+/- **0.1 foot or 1.2”**) under sidewalks, building pads, etc. as shown on the drawings and specifications to achieve the final working grade.

NOTE: During School days heavy traffic on Dunham Rd is to be expected from 7:30-8:30 & 2:30-3:30. Any trucking/hauling shall not occur during these times. School starts on 8/16/2019.

NOTE: This trade contractor responsible for all excavation required for new foundations adjacent to existing foundations.. This trade contractor responsible for all precaution required to prevent undermining of existing foundations.

4. This TRADE CONTRACTOR shall be responsible for SITE DEMOLITION including: existing base, sidewalks, topsoil, and vegetation to required sub-grades as indicated on construction documents and/or as specified in the project manual.

This TRADE CONTRACTOR shall be responsible for all site demolition as shown on the drawings including all storm lines and structures, sanitary lines and structures, electrical man hole, sidewalks shown for removal, telecommunications pedestal. Cut and cap storm and sanitary as shown on contract documents.

NOTE: Demolition of exist electrical transformer is by OTHERS.

00300-1

NOTE: This TRADE CONTRACTOR is responsible for the removal and haul off of the existing trees in the courtyard. The tree removal allowance included in this scope of work shall be utilized. Schedule for this tree removal to be by CONSTRUCTION MANANGER and will occur **before this TRADE CONTRACTOR is mobilized.**

5. This TRADE CONTRACTOR shall be responsible for the cut, fill and compaction necessary to construct the slabs on grade. This Trade Contractor is also responsible for the excavation and subsequent backfill and compaction for the Footings, Foundations, Sidewalks, & Frost Stoops.

NOTE: Clay for the building pad will be furnished by others and will be stockpiled on site. The engineered compactions and clay lifts and all stone back fill is responsibility of this trade contractor. Any additional clay material needed to achieve subgrade elevations is the responsibility of this TRADE CONTRACTOR.

NOTE: This TRADE CONTRACTOR shall provide any necessary lifts/proof rolling to complete its scope of work to meet the proper compaction of sub-grade and/or backfill materials. Proof rolls shall be coordinated so that those TRADE CONTRACTORS that will install any work above sub-grade, including but not limited to asphalt/paving contractor, concrete paving contractor, etc., can be present.

NOTE: This TRADE CONTRACTOR shall provide unit price per cubic yard for the excavation and disposal of undercuts and unit prices for clay and stone backfill of undercut areas in the provided area on the bid form.

NOTE: Frost Stoops are shown on the Structural, Civil, and Architectural drawings but may not be coordinated between them. This TRADE CONTRACTOR shall be responsible for reviewing all drawings and including them where they appear. Refer to Plan Note #21 on sheet S2.1B-C1 for details.

NOTE: This TRADE CONTRACTOR shall coordinate with concrete contractor regarding phasing, logistics, schedule, etc. All dewatering (if necessary) in the footing excavation shall be the responsibility of this Trade Contractor. Dewatering must be filtered through a filter bag and comply with procedures per Illinois Law.

NOTE: This TRADE CONTRACTOR shall be responsible for coordinating and locating existing underground secondary electrical lines from transformer, prior to any excavation of new footings/foundations. **Any damage to these lines shall be the responsibility of this TRADE CONTRACTOR.**

6. This TRADE CONTRACTOR shall be responsible for the furnish and install of the Compacted Granular Fill under all slab-on-grade installations including sidewalks and pavement, see structural and civil drawings for thickness and details for the Compacted Granular Fill.

NOTE: This Trade Contractor shall account for areas of thickened slabs, depressed slabs, grade beams, stepped footings, and shall be responsible for layout and excavation of those areas as shown on the Structural Drawings.

NOTE: This Trade Contractor is NOT responsible for the removal of spoils for the under-slab Plumbing and Electric, these trade contractors shall be responsible for their own excavation, backfill and spoil removal.

7. This TRADE CONTRACTOR shall be responsible for topsoil and/or non-topsoil stockpiling, hauling, importing, and management/maintenance thereof for all excavation spoils (including re-spreading of topsoil and/or non-topsoil). This TRADE CONTRACTOR shall be responsible for all removal and legal off-site disposal of all spoils and debris, which corresponds to this TRADE CONTRACTOR'S scope of work. Stockpile locations must be coordinated with CONSTRUCTION MANAGER.
8. This TRADE CONTRACTOR shall provide a minimum of 4" of topsoil to all areas that are to be restored to a vegetative condition. Topsoil to be installed per project specifications and standards.

NOTE: Top 2" of topsoil to be free from lumps, stones or foreign matter larger than 1/2" diameter.

NOTE: No importing of topsoil will be required. All topsoil will be distributed on-site. Haul-off of excess spoils will be required. Spoil locations and distribution to be coordinated with Construction Manager

9. This TRADE CONTRACTOR shall be responsible for installation and removal of temporary construction entrance off Dunham to access site as shown on C3.01 and detailed per Village of Downers Grove Ordinance.

NOTE: This TRADE CONTRACTOR shall also be responsible for the installation and subsequent removal of 10,000 sqft construction haul road around the new addition to construct the building. Top soil will be stripped and stock piled by this TRADE CONTRACTOR. The haul road shall consist of 9" of CA-1 and capped with 4" of CA-6 stone. Compacted and rolled.

10. This TRADE CONTRACTOR shall be responsible for installation, maintenance, and removal of all sediment and erosion control items required for their work only as indicated on the drawings and/or as required per codes or local authorities. This TRADE CONTRACTOR shall provide silt screen over all inlets to prevent clogging of underground piping. Silt fencing is to be included. Refer to contract documents for specific requirements including all notes on C3 sheets on drawings and associated specific details.

NOTE: Permanent seeding and Erosion Control Blanket shall be by future Landscape Contractor and is NOT part of this scope.

11. This TRADE CONTRACTOR shall be responsible for all dewatering as associated with this TRADE CONTRACTORS work. Dewatering activities including pumping (gas or electric), swales, sump pits, etc. shall be put in place within 24 hours of a rain event so as to minimize schedule delays. Any dewatering activities shall be in accordance with Illinois Law and proper SWPPP Procedures.
12. This TRADE CONTRACTOR shall provide all associated trucking of imported and exported materials approved by Construction Documents.

13. This TRADE CONTRACTOR shall be responsible for scheduling with Construction Manager of all required testing for compaction, etc... This TRADE CONTRACTOR shall be responsible for adherence with all testing procedures and/or Geo-Technical Engineering findings and recommendations. Testing by others.
14. This TRADE CONTRACTOR shall be responsible for all public access (streets, roads, aprons, curb-cuts, sidewalks, roads, etc.) maintenance on a daily basis and for the duration of all on site activities and to ensure that it is clear of dirt, dust, debris, mud, stones, rocks, sediment and/or project related materials of any kind caused by this TRADE CONTRACTOR. This TRADE CONTRACTOR shall provide all required street sweeper during her/his work period. Refer to contract documents, including General Notes on C0.01 for further information.
15. This TRADE CONTRACTOR shall be responsible for all site Storm, Sanitary, and Water utilities to a point 5' 0" from the building's perimeter foundation wall. This TRADE CONTRACTOR shall be responsible for furnishing and installing the storm piping (including all trenching, backfill, and accessories) from that point forward with the approved tie-ins.

NOTE: STM2.3, STM2.4, STM 2.5 shown on C3.01 will be installed by others in a previous Phase of work. This TRADE CONTRACTOR shall be responsible to field core and install the associated underground piping and tie ins as shown on the CONSTRUCTION DOCUMENTS.

NOTE: This TRADE CONTRACTOR shall be responsible for adjusting elevation of any existing storm structures to match final grade, as noted on General Note 20 on C0.01.
16. This TRADE CONTRACTOR is responsible for all backfill to complete the utility work compacted to proper specification of Construction Documents.
17. This TRADE CONTRACTOR is responsible for doing all necessary research on piping and structure sizing with local and/or state authorities as required.

ALLOWANCES, BOND, AND ALTERNATES

1. This TRADE CONTRACTOR **shall include an allowance of \$30,000.00 in their base bid** to account for any unforeseen conditions. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
2. This TRADE CONTRACTOR **shall include a tree removal allowance of \$25,000.00 in their base bid** to account for the removal and haul off of existing courtyard trees. This tree removal will be at the direction of the CONSTRUCTION MANAGER and will occur before mobilization. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
3. This TRADE CONTRACTOR shall include a SWPPP allowance of \$5,000.00 to be included in the base bid to account for future maintenance of Sediment and Erosion Control Measures. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.

00300-4

NOTE: This allowance is for unforeseen maintenance of the Erosion Control Measures. Initial install and maintenance are included in Base Bid work and will not be covered by this allowance.

- 4. This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 00201 of the General Conditions.

ACCEPTANCE

Accepted as listed above in addition to terms and conditions of the original construction documents on which the bid was based.

Company: Wight Construction Services, Inc.
2500 North Frontage Road
Darien, IL 60561

Signed: _____
Printed Name: _____
Position: _____
Date: _____

END OF SECTION 00300 –Scope

BID DATE: June 12th at 1:00 p.m. (CST)
(as date/time stamped by Wight & Company’s Receptionist)

BID TO: Community High School District 99
Administrative Center
6301 Springside Avenue
Downers Grove, IL 60516

RECEIVED BY:

BID FROM: _____

BID FOR: Bid Group 6 - Bid Package #47 – Excavation/Site Utilities

South High School
1436 Norfolk Street
Downers Grove, IL 60516

It is required to have one original and one copy of your bid form.

THE UNDERSIGNED:

Acknowledges receipt of:

Plans and specifications for the work indicated above.

Addenda: No. _____ dated _____
No. _____ dated _____
No. _____ dated _____
No. _____ dated _____

Having examined the site of the work, and having familiarized himself or herself with local conditions affecting the cost of the work and with all requirements of the bidding documents including Instructions to Bidders, drawings, specifications and duly issued addenda as prepared by the architect, Wight & Company, hereby agrees to perform all work and furnish all labor, material and equipment specifically required of him by the bidding documents and such additional work as may be included as related requirements in other divisions or sections of the specifications, exclusive of alternate bids.

Agrees:

To furnish and install the described material and/or services for stated lump sum price.

To hold this bid open until **90** calendar days after bid opening date.

To accept the provisions of the General Provisions (Project Manual Division 0 – Bidding & Contracting Requirements Section 00201) and disposition of bid security.

To enter into and execute a contract with the Owner, if awarded on the basis of this bid, and in connection therewith to:

1. Furnish all bonds and insurance required by the bidding documents.
2. Accomplish the work in accordance with the contract.
3. Complete the work within the contract time herein specified.

Completion Time:

The undersigned agrees to begin construction immediately, or as directed by the Construction Manager, upon notice of contract award and to perform the following components of the work in accordance with the Construction Manager’s Construction. This schedule is bound in the Project Manual. See attached scope of work in section 0300.

SCOPE OF WORK:

The work in this agreement (without additional compensation) shall include, but shall not necessarily be limited to, all skilled labor, supervision, premium time, materials, tools, equipment, plant, supplies, samples, shop drawings, design/engineering drawings, layout, transportation, supervision, contributions, insurance, taxes (if applicable), compliance with all agencies (City / Village, County, State, Federal and/or any other jurisdictional agency, as may be required) and/or all services and facilities necessary and/or required for the performance of all Work shown, detailed, and/or implied by the following documents and as defined herein.

It is understood that this Trade Contractor shall perform the Work for a complete and operational system as indicated or implied in all Contract Documents. It is recognized and understood that the documents upon which the bid is based are at a conceptual phase and this Contractor who has certain skills and judgments based upon his knowledge of techniques, procedures, systems, general state of the art of his specialty is expected to include in the scope of work, all items required in order to carry out a complete and functional system whether or not shown or described in the contract documents. This contract will be awarded on the basis of such documents with the understanding that this contractor is to furnish and install all items required for the proper completion of this work without adjustment to this contract price. No extra payments shall be made of claims entertained as a result of such items, unless it can be clearly demonstrated to be added scope to the contract and beyond the original intent of the documents.

Contractor to provide all Trade Contract work referenced in:

1. Any sheet of this bid group package including (reference Division 0 – Bidding and Contract Requirements, Section 00200 – Notice to Bidders).
2. Specification 00300 Bid Packages Scope Document.

WORK BASE BID: For providing all work including all allowances as required for the completion of the construction of the base bid project as shown on the drawings and specifications and NOT including alternate bids and/or contractor's proposed alternates and substitutes.

BASE BID

TOTAL BASE BID AMOUNT SOUTH HIGH SCHOOL MASTER FACILITY PLAN

_____ Dollars (\$ _____)

1. This TRADE CONTRACTOR shall include an allowance of **\$30,000.00 in their base bid** to account for any unforeseen conditions. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.

2. This TRADE CONTRACTOR shall include a tree removal allowance of **\$25,000.00 in their base bid** to account for the removal and haul off of existing courtyard trees. This tree removal will be at the direction of the CONSTRUCTION MANAGER and will occur before mobilization. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.

3. This TRADE CONTRACTOR shall include a SWPPP allowance of \$5,000.00 to be included in the base bid to account for future maintenance of Sediment and Erosion Control Measures. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.

NOTE: This allowance is for unforeseen maintenance of the Erosion Control Measures. Initial install and maintenance are included in Base Bid work and will not be covered by this allowance.

BONDS:

This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 00201 of the General Conditions.

Award Basis:

The project will be awarded based upon the attached Evaluation Criteria, Section 301a. Owner and Construction Manager alternate’s may be considered to find the most qualified bidder if the result of combining the base bid and the selected alternate(s) is the most qualified bid, and is to the benefit of the owner.

Each of the following amounts for alternate construction includes the entire cost of such construction, except as otherwise noted. Acceptance of any or all of the alternates for inclusion in the contract is the sole prerogative of the owner.

All additional costs due to the alternates are included in the amount to be added to the base bid, so that no additional costs will be borne by the owner due to acceptance of alternates. This alternate price is not to be included in the base bid price.

Owner Requested Alternates:

Each of the following amounts for alternate construction includes the entire cost of such construction, except as otherwise noted. Acceptance of any or all of the alternates for inclusion in the contract is the sole prerogative of the owner.

All additional costs due to the alternates are included in the amount to be added to the base bid, so that no additional costs will be borne by the owner due to acceptance of alternates.

Proposed Alternates: (Contractors Proposed Alternates)

Item Specified	Proposed Alternate	Change in Bid Price
1. _____	_____	_____
2. _____	_____	_____

3. _____

Owner Requested Unit Prices/Allowances (as applicable to this Trade Contractor's scope of work) (additive or deductive).

This trade contractor includes _____ dumpsters for all refuse caused by this trade contractor's work in the amount of _____ Dollars (\$ _____) Note: trade contractors are to include in their bid form submittal the quantity of dumpsters required to complete their work and the cost associated with same. Dumpster costs will be subtracted by change order. Dumpsters will be procured and managed by Construction Manager. Note: Dumpster use in excess of that proposed by this Trade Contractor will be adjusted by back charge.

Owner Requested Scheduling Information:

Note: The work of this Trade Contractor is to be completed in accordance with the overall project schedule as identified elsewhere in this project manual and/or as subsequently directed by Construction Manager. This Trade Contractor shall submit a proposed submittals list/schedule/material log within five (5) calendar days of Notice To Proceed.

1. Shop drawings / Submittal for this trade contractor will be submitted within 10 calendar days of receipt of notice to proceed.

Bid Acceptance:

If written notice of the acceptance of this bid is mailed, telegraphed or delivered to the undersigned within the time noted herein, after the date of opening of bids or at any time thereafter before this bid is withdrawn, the undersigned agrees that he will execute a construction contract in accordance with the bids as accepted.

The Owner reserves the right to award the contract to its best interests, review and accept any and all value engineering alternatives, negotiate with the lowest responsible bidder, to reject any or all bids, to waive any informalities in bidding and to hold all bids for the bid guarantee period. The Owner reserves the right to award separate contracts for any of the items of work bid herein.

Bid Deposit:

The undersigned furnishes herewith, as required in the Instructions to Bidders, a bid deposit in the amount of ten percent (10%) of the amount bid in the form of Cashier's Check, or Certified Check, made payable to the Owner or Bid Bond, naming the Owner as obligee. (Bidder to check form of deposit furnished.)

It is understood and agreed that should the undersigned fail to enter into a contract with the Owner or furnish acceptable contract security within the time and in the manner herein provided, the bid deposit shall be retained by the Owner as liquidated damages and not as a forfeiture. As it is impossible to determine precisely an exact amount of damages the Owner will sustain, it is agreed that the bid deposit is a fair and equitable estimate of such damages.

REPRESENTATIONS AND CERTIFICATIONS:

The bidder makes the following representations and certifications as part of his bid on the project herein identified in the Bid Form. In the case of a joint venture bid, each party represents and certifies as to his own organization.

AVAILABILITY. The number and amount of contracts and awards pending which I am and/or will be obligated to perform, now and during the course of the project, will not interfere with or hinder the timely prosecution of my work.

SURETY. I have notified a Surety Company that I am submitting a bid for work to be performed on the project. The Surety Company has agreed to issue a performance and labor and material payment bond for my work, if my bid is accepted and the contract awarded to me.

INDEPENDENT PRICE DETERMINATION. The contract sum in this bid has been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.

PREVAILING WAGE. The contractor and each subcontractor shall pay not less than the general prevailing rate of hourly wages for work of a similar character in the locality in which the work is performed and not less than general prevailing rate of hourly wages for legal holidays and overtime work in the performance of work under this contract, as established by the Illinois Department of Labor, pursuant to an act of the General Assembly of the State of Illinois approved June 26, 1941 as amended according to Section 820 ILCS 130/1.

Pursuant to Section 820 ILCS 130/5, the contractor and each subcontractor shall keep an accurate record showing the names and occupation of all laborers, workers and mechanics employed by them, and also showing the actual hourly wages paid to each such individual, which record shall be open at all reasonable hours to inspection by the Owner, its officers and agents, and to agents of the Illinois Department of Labor.

The contractor and each subcontractor hereby agree, jointly and severally, to defend, indemnify and hold harmless the Owner from any and all claims, demands, liens or suits of any kind or nature whatsoever (including suits for injunctive relief) by the Illinois Department of Labor under the Illinois Prevailing Wage Act, Section 820 ILCS 130/1., or by any laborer, worker or mechanic employed by the contractor or the subcontractor who alleges that he has been paid for his services in a sum less than prevailing wage rates required by Illinois law. The Owner agrees to notify the contractor or subcontractor of the pendency of any such claim, demand, lien or suit.

By submitting a bid, each bidder agrees to waive any claim it has or may have against the Owner, the Architect, Engineer, Construction Manager and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid; waiver of any requirements under the Bid Documents; or the Contract Document; acceptance or rejection of any bids; and award of the Contract.

Signature:

Respectfully submitted this _____ day _____, 2013

Type of Firm (Bidder to indicate)

_____ Individual

_____ Partnership

_____ Corporation

_____ Joint Venture

_____ Other

(CORPORATE SEAL)

(Firm Name)

(Address)

(Telephone Number) (FAX)

(E-mail Address)

(Bidder's Signature)

(Title)

Subscribed and sworn to me
this _____ day of _____, 2013

NOTE: All pages of this bid form must be returned with your proposal. Failure to do so shall disqualify your bid.

CERTIFICATE OF BIDDER ELIGIBILITY

720 ILCS 5/33E-11 REQUIRES THAT ALL CONTRACTORS BIDDING FOR PUBLIC AGENCIES IN THE State of Illinois certify that they are not barred from bidding on public contracts for bid rigging or bid rotation.

The following certification must be signed and submitted with bidder’s bid proposal. FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as part of its bid for the _____ work for Community High School District 99, Downers Grove, Illinois, DuPage County, Illinois certified that said contractor is not barred from bidding on the aforementioned contract as a result of violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33-E4.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2013

NOTARY PUBLIC

**CRIMINAL CODE CERTIFICATION
AS REQUIRED BY:
STATE OF ILLINOIS CRIMINAL CODE OF 2012, 720 ILCS 5/33E-11**

I, _____ the individual whose signature appears below on this bid/contract
for _____ hereby certify that the bidding party/contracting
party is not barred from bidding on the contract as a result of a violation of either Section 33E-3 or Section 33E-4
of 720 ILCS 5/33E-3 or 5/33E-4 of the Illinois Compiled Statutes, as amended.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

EQUAL EMPLOYMENT OPPORTUNITY

Section I. This EQUAL EMPLOYMENT OPPORTUNITY CLAUSE is required by the Illinois Human Rights Act and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, *et seq.*

Section II. In the event of the Contractor's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Rules and Regulations of the Department of Human Rights (hereinafter referred to as the Department) the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and this Contract may be canceled or voided in whole or in part, and other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

During the performance of this Agreement, the Contractor agrees:

A. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

B. That, if it hires additional employees in order to perform this Contract, or any portion hereof, it will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

C. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, or physical or mental handicap unrelated to ability, military status or an unfavorable discharge from military service.

D. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Vendor's obligations under the Illinois Human Rights Act and Department's Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with the Act and Rules and Regulations, the Contractor will promptly notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the Contract.

E. That it will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and Department's Rules and Regulations.

F. That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and Department's Rules and Regulations.

G. That it will include verbatim or by reference the provisions of this Equal Employment Opportunity Clause in every subcontract it awards under which any portion of this Contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as the other provisions of this Agreement, the Contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Department to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

ACKNOWLEDGED AND AGREED TO:

By: _____
Authorized Agent of Contractor (name and title)

DATE: _____

SEXUAL HARASSMENT POLICY

_____, having submitted a bid for _____ (Name of Contractor)
_____ to Community High School District No. 00, hereby certifies
that said contractor has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105 (A) (4).

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

TAX CERTIFICATION

I, _____, having been first duly sworn depose and state as follows:

I, _____, am the duly authorized agent for
to _____ Community High School District No. 99 for

_____ and I hereby certify that _____ is not delinquent in the payment of any tax administered by the Illinois Department of Revenue, or if it is:

- a. it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate Revenue Act; or
- b. it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS PROJECTS

The Contractor certifies that it has in place a written program that meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act (Public Act 95-0635), and will provide a copy thereof to Community High School District No. 99 prior to commencement of work on the Project.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

**CERTIFICATE REGARDING
EMPLOYMENT OF ILLINOIS WORKERS ON PUBLIC WORKS**

_____ agrees if at the time the Agreement is executed, or if during the term of the Agreement, there is excessive unemployment in Illinois as defined in the Employment of Illinois Workers on Public Works Act, 30- ILCS 570/0/01 et seq., as two consecutive months of unemployment exceeding 5%, then _____ agrees to employ Illinois laborers in accordance with the Employment of Illinois Workers on Public Works Act. An "Illinois laborer" is defined as any person who has resided in Illinois for at least thirty (30) days and intends to become or remain an Illinois resident.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2013

NOTARY PUBLIC

PREVAILING WAGE AFFIDAVIT

AFFIDAVIT: "I (we) hereby certify and affirm that if awarded a contract with Community High School District 99, we will comply fully with the "Illinois Prevailing Wage Act (Ill. Rev. Stat., 1987 Ch. 48, Sections 398 s-1-12 as amended by Public Act 86-693 and 86-799 effected January 1, 1990, and any other amendments effective thereafter)". We further understand that current prevailing wage standards are included in the Supplementary General Conditions.

The following affidavit must be signed and submitted with bidder's bid proposal. FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as part of its bid for the _____ work for Community High School District 99, Downers Grove, Illinois, certifies that said contractor is not barred from bidding on the aforementioned contract as a result of a violation of the Illinois Prevailing Wage Act (Ill. Rev. Stat., 1987 Ch. 48, Sections 398 s-1-12 as amended by Public Act 86-693 and 86-799 effected January 1, 1990).

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2013

NOTARY PUBLIC

NON-COLLUSION AFFIDAVIT

AFFIDAVIT: "I (we) hereby certify and affirm that my (our) proposal was prepared independently for this project and that it contains no fees or amounts other than that for the legitimate execution of this work as specified and that it includes no understanding or agreements in restraint of trade."

The following affidavit must be signed and submitted with bidder's bid proposal.
FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as a part of its bid for the _____ work for Community High School District 99, Downers Grove, Illinois, certifies that said Contractor is not barred from bidding on the aforementioned contract as a result of a violation of the above Non-Collusion Affidavit.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2013

NOTARY PUBLIC

Criminal Background Investigations

Contractor hereby represents, warrants and certified that no officer or director thereof has any knowledge that any employee thereof has been convicted of committing or attempting to commit "Criminal Code of 1961," 720 ILCS, Sections 5/11-6 (Indecent solicitation of a child), 5/11-9 (Public indecency), 5/11-14 (Prostitution), 5/11-15 (Soliciting for a prostitute), 5/11-15.1 (Soliciting for a juvenile prostitute), 5/11-19 (Pimping), 5/11-19.1 (Juvenile pimping), 5/11-19.2 (Exploitation of a child), 5/11-20 (Obscenity), 5/11-20.1 (Sexual assault), 5/12-14 (Aggravated criminal sexual assault), 5/12-15 (Criminal sexual abuse), and 5/120-16 (Aggravated criminal sexual abuse), and/or those offenses defined in the "Cannabis Control Act," 720 ILCS, 550/1 et seq. (except the "Illinois Controlled Substances Act," 720 ILCS 570/100 et seq. and/or any offense committed or attempted in any other state or against the laws of the United States, which if committed or attempted in this State, would have been punishable as one or more of the foregoing offenses.

Contractor further agrees that it shall not employ any person who have or may have direct, daily contact with the pupils of any school in the district, and for whom a criminal background investigation has not been conducted pursuant hereto, and further represents and agrees that all applicants for any such employment shall furnish with their applications the attached written "Authorization for Criminal Background Information" form authorizing the Board of Education to request a criminal background investigation of said applicant pursuant to Section 5/10-21.9 of the School Code of Illinois and to receive criminal history record information pursuant thereto to determine if the applicant has been convicted of committing or attempting to commit any of the criminal or drug offenses enumerated above. Contractor further agrees to submit with said authorization payment for any costs and expenses associated with the criminal background investigation.

Contractor further represents, warrants, and certifies that no applicant for employment with respect to whom the criminal investigation reveals any conviction for committing and/or attempting to commit any of the above enumerated offenses shall be employed thereby in any position that involves or may involve contact with the students of the school district.

This certification is executed on the date hereinafter indicated by the designated contractor by its duly authorized officer.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

Date: _____

Criminal Background Investigation

The undersigned hereby authorizes in Board of Education of Community High School District 99, Downers Grove, Illinois, to request a criminal background investigation from the Illinois State Police, pursuant to Section 5/10-21.9 of the School Code of Illinois, 105 ILCS 5/10-21.9 and to receive criminal history record information pursuant thereto.

By: _____
(Signature of Applicant of Employee)

(Printed or Typed Name of Applicant Employee)

Date: _____

BUSINESS CLASSIFICATION

a) Business Entity (check one)

Corporation (Publicly held)* Not-for-Profit* Government Agency/Public Institution*
 Corporation (Privately held) Partnership Sole Proprietor

* If checked, do not complete section III (b) and (c) below.

b) Business Ownership (check one) If minority or woman owned, attach copy of certification evidence.

Large Business: Male Owned Woman Owned
Small Business: Male Owned Woman Owned

BUSINESS DEFINITIONS

Small Business Concern - an independently owned and operated concern certified, or certifiable, as a small business by the Federal Small Business Administration (SBA). Standard Industrial Classification (SIC) codes may be found in the Federal Acquisition Regulations, Section 19.102 or in the Federal Procurement Regulations, Section 1-1.701.

Small Disadvantaged or Minority Business Concern - a small business concern which is at least fifty-one percent (51%) owned by one or more socially and economically disadvantaged individuals or in the case of any publicly owned business, at least fifty-one percent (51%) of the stock of which is owned by such individuals; and whose management and daily business operations are controlled by one or more of such individuals. Business owners who certify that they are members of named groups (Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans) are considered socially and economically disadvantaged.

Woman-Owned Business - a business concern that is at least fifty-one percent (51%) owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" in this context means being actively involved in the day-to-day management.

c) Race/Ethnicity of Ownership (check one) based on definitions below.

Black Asian/Pacific or Asian/Indian Caucasian
 Hispanic Native American (American Indians, Eskimos, Aleuts and native Hawaiians)

ETHNIC GROUP DEFINITIONS

Black Americans: United States citizens whose origins are in any of the Black racial groups of Africa.
Hispanic Americans: United States citizens whose origins are in Mexico, Puerto Rico, Cuba, Portugal, Central or Central America.
Native Americans: United States citizens whose origins are in any of the original peoples of North America, i.e., American Indians, Eskimos, Aleuts and native Hawaiians.
Asian Pacific/Asian Indian Americans: United States citizens whose origins are in Japan, China, Korea, Taiwan, Cambodia, Laos, Vietnam, the Philippines, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands, the Northern Mariana Islands, India, Pakistan, or Bangladesh.

I certify that the business classification and ethnicity indicated above reflects the true and correct status of this business in accordance with current Federal Small Business Administration criteria. I agree to inform Community High School District 99 immediately in writing of any changes to the information contained herein, including changes in ownership, controlling interest or operations. I understand that falsely certifying this information may result in suspension from participation in Community High School District 99 - North High School Phase II project.

Name: _____ Title: _____
(Print or Type)

Signature: _____ Date: _____

END OF SECTION 00301

Scope – This TRADE CONTRACTOR’s scope shall include but not be limited to the scope listed below. Please see entirety of bid documents for all scope requirements.

BG6 BP2 SCOPE OF WORK FOR CONCRETE –SOUTH HIGH SCHOOL (Phase B)

1. This TRADE CONTRACTOR shall reference ALL General, Demolition, Civil, Structural, Architectural Sheets included in this Bid Group 6 as they relate to Concrete – Building & Site. This TRADE CONTRACTOR shall read all Specification Sections in this manual as well as Notes and General Notes included in the drawings as they pertain to this scope of work. This TRADE CONTRACTOR shall review the project SCHEDULE included in this project manual and provide sufficient manpower and equipment to complete this trade contractor’s scope of work within the designated durations provided.
2. This TRADE CONTRACTOR shall be responsible for both the site and building concrete portions of this work per the drawings and specifications.

NOTE: REFER TO C1.01 & C2.01 for extents of site work to be included in this scope of work known as Phase B.

NOTE: Excavation (including furnish and install of stone base) and backfill of the BUILDING and SITE concrete (i.e. sidewalks, curbs, S.O.G., equipment pads, etc...) is to be performed by the Excavation/ Site Utilities TRADE CONTRACTOR to (+/- 1.2” ~ 0.1 foot). This TRADE CONTRACTOR should assume some final grading of base and compaction prior to forming and placement of site and building concrete.

3. This TRADE CONTRACTOR shall be responsible for all concrete materials, forms, shoring, bracing, sealant, rigid insulation, equipment, tools, labor and any other element required to furnish a fully complete and correct concrete installation at all sidewalks, ramps, all curb ramps for sidewalks, all concrete walks, all concrete paving, slabs-on-grade, elevated slabs, foundation walls, frost walls, interior and exterior footings, spread footings, stepped footings, thickened slabs, depressed slabs, frost stoops, stoops, piers, sealers, filler strips, expansion joints, control joints, and any other cast in place concrete within the work area as indicated on construction documents and/or as specified in the project manual.

Note: Any concrete that will be exposed more than 6” will be required to be architecturally finished or “rubbed”. Coordinate with Construction Manager finish expectations.

4. This TRADE CONTRACTOR shall be responsible for supplying professional rebar shop drawings and for furnishing and installing all rebar as indicated on construction documents and/or as specified in the project manual. Rebar shop drawings are due to Construction Manager 10 days after Notice to Proceed.

NOTE: This Trade Contractor is also responsible for furnishing and installing the up-turned or drilled-in rebar out of slabs or foundations for all masonry walls, including the correct layout, as shown and called for on the Construction Documents.

5. This TRADE CONTRACTOR shall be responsible for all WWF (welded wire fabric) or macro-synthetic fibers, expansion joints, doweling, epoxy anchors, construction joints, control joints, space control joints, slab box-outs, fillers, caulking, sealants, vapor retarder/barrier, bond breaker, insulation, concrete finish, etc. for this trade contractor's scope of work as indicated on construction documents and/or as specified in the project manual.

NOTE: This TRADE CONTRACTOR shall be responsible for caulking control joints around new steel columns.

NOTE: This Trade Contractor is also responsible for all drilling, dowelling, epoxy anchoring of new foundation/footings to existing foundation/footings, as identified on the contract documents. Note dowelling method to be inspected by Hilti rep for correct installation method. All this drilling for footings/foundations needs to be completed per bid schedule.

NOTE: This trade contractor is responsible for detail 17/S1.3B including notching the existing composite deck slab for installation of expansion joint.

6. This TRADE CONTRACTOR shall accept sub-grade and base conditions prior to proceeding. Sub-grade and base acceptance apply to all aspects of this Trade Contractor's work. Issues taken with sub-grade and base conditions are to be itemized and presented (location plan and narrative) in writing to Construction Manager. Proceeding with the work will constitute acceptance of sub-grade and base conditions by this TRADE CONTRACTOR.
7. This TRADE CONTRACTOR shall be responsible for all perimeter foundation insulation (2" rigid insulation under perimeter of floor slab and on interior face of frost walls), whether shown on drawings or not.
8. All utility sleeves required by others in the concrete will be supplied and located by others but installed by this TRADE CONTRACTOR.
9. All depressions, recesses, chases and/or openings in the concrete required for subsequent trades shall be provided for and located by those TRADE CONTRACTORS and shall be installed by this TRADE CONTRACTOR.
10. This TRADE CONTRACTOR shall be responsible to box out or use Foam Insulation around all floor drains and cleanouts so that these drains and cleanouts can be adjusted and set to the correct height after the slabs have been poured. **This TRADE CONTRACTOR shall be responsible for infilling/grouting around these drains and cleanouts AFTER the correct height has been set. Direct Coordination with the plumbing contractor may be required.**
11. This TRADE CONTRACTOR shall be responsible for replacing at its cost any concrete that does not meet the required technical specification or required elevations or slope and shall remove all debris off site.

00300-2

12. This TRADE CONTRACTOR shall be responsible for providing its own project layout according to the drawings, considering. This TRADE CONTRACTOR shall protect and maintain all survey stakes provided by this trade contractor or others.

NOTE: It is the responsibility of this TRADE CONTRACTOR to employ a qualified land surveying professional to perform layout for this trade contractor's scope of work and the cost shall be included in the base bid. This is to confirm grades and slopes will be met as well as foundation locations and elevations.

13. This TRADE CONTRACTOR shall be responsible for providing a commercial **TEMPORARY CONCRETE WASHOUT STATION** (as pre-approved by Wight Construction) including furnish, install, and removal of associated signage.
14. This TRADE CONTRACTOR shall take precautions not to damage, remove, relocate, etc... any of the Erosion and Sediment Control Measures (silt fence, inlet protection, tree protection, etc..) while working on-site.
15. This TRADE CONTRACTOR shall be responsible for coordinating with construction manager for scheduling of all required testing for concrete cylinders, backfill and compaction. This TRADE CONTRACTOR shall be responsible for adherence with all testing procedures and/or Geo-Technical Engineering findings and recommendations. Testing by others.
16. This TRADE CONTRACTOR shall submit to Construction Manager a control joint layout for all flatwork.
17. This TRADE CONTRACTOR shall be responsible for all concrete embedded anchor bolts, concrete embeds furnished by STEEL TRADE CONTRACTOR. This TRADE CONTRACTOR shall be responsible for grouting/ leveling of all setting plates.
18. This TRADE CONTRACTOR is responsible for 2" non-structural topping over hollow core planks. This includes all coordination, framing, boxouts, etc.. required for the pouring the topping.

NOTE: This TRADE CONTRACTOR shall be responsible for detail 10/S3.2B and 14/S3.2B slab edge pour. Coordination with guardrail contractor will be required.

19. This TRADE CONTRACTOR shall be responsible to cut existing tunnel wall as shown on detail 11/S3.2B for new slab on grade bearing.
20. This TRADE CONTRACTOR is responsible for 3-1/4" lightweight concrete over steel deck. This includes all coordination, framing, boxouts, etc.. required for the pouring the concrete.

NOTE: Any pumping, buggy, or other subcontracted equipment is the responsibility of this TRADE CONTRACTOR. If schedule requires multiple mobilizations to complete pours per the schedule or sequencing, these costs are the responsibility of this TRADE CONTRACTOR. Sequencing or Scheduling may change at the direction of the CONSTRUCTION MANAGER.

ALLOWANCES, BOND, AND ALTERNATES

- 1. This TRADE CONTRACTOR shall include an allowance of **\$30,000.00 in their base bid** to account for any unforeseen conditions and housekeeping pads. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
- 2. This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 00201 of the General Conditions.

ACCEPTANCE

Accepted as listed above in addition to terms and conditions of the original construction documents on which the bid was based.

Company: Wight Construction Services, Inc.
2500 North Frontage Road
Darien, IL 60561

Signed: _____

Printed Name: _____

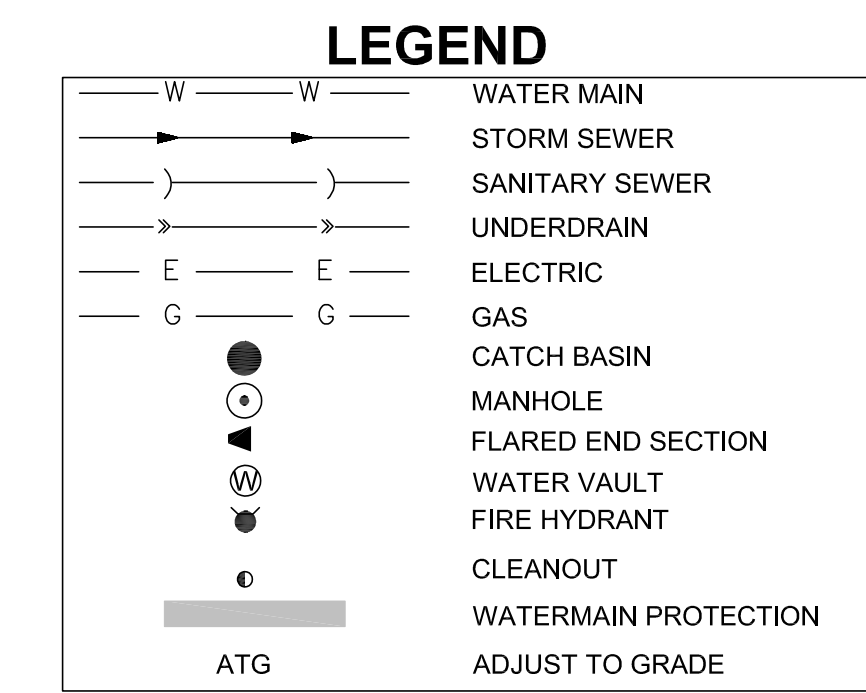
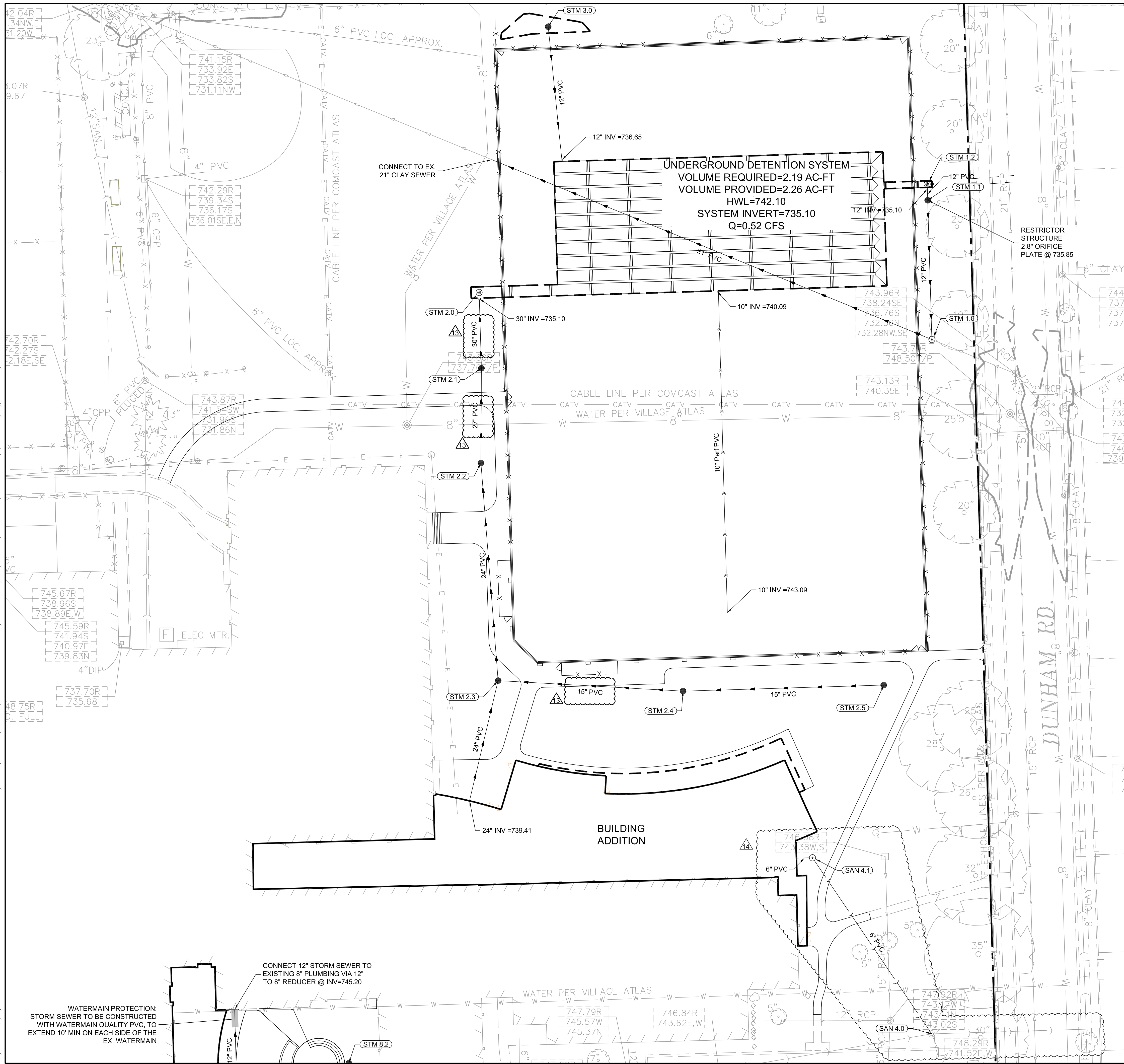
Position: _____

Date: _____

END OF SECTION 00300 –Scope

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- UTILITY NOTES:**
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, SLOPES, INVERTS, ETC. AND CONTACT ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS/DISCREPANCIES.
 - CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
 - ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
 - CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS AT THE BUILDING WITH THE MEP TO VERIFY CONNECTION LOCATION, PIPE SIZE, AND INVERT.
 - CONTRACTOR TO SEE MEP PLANS FOR ALL DETAILS, LOCATION, ROUTING, SIZE, ETC. REGARDING GAS, TELEPHONE, ELECTRIC, AND LIGHTING DESIGN. FOLLOW ALL REQUIREMENTS OF UTILITY PROVIDERS.
 - ALL STORM / SANITARY SEWER SHALL BE PVC SDR 26 OR STRONGER.

AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESSTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.

WITHIN DETENTION/BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.



Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

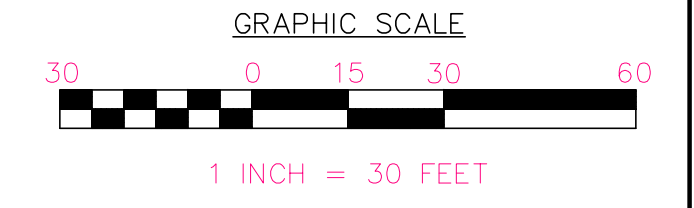
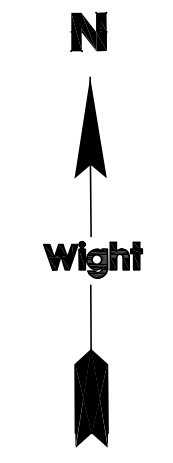
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△5	ISSUED FOR DOC MOD 005	06.03.2019
△3	ISSUED FOR DOC MOD 004	05.16.2019
	FINAL PERMIT SUBMITTAL	05.13.2019
	ISSUED FOR BID - BID GROUP 6	05.10.2019
	ISSUED FOR BID - BID GROUP 5	05.10.2019
	ISSUED FOR CONSTRUCTION-PHASE A	05.08.2019
REV	DESCRIPTION	DATE

COMMUNITY SCHOOL DISTRICT 99 – MFP IMPLEMENTATION SOUTH HIGH SCHOOL
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

UTILITY PLAN – SOUTH

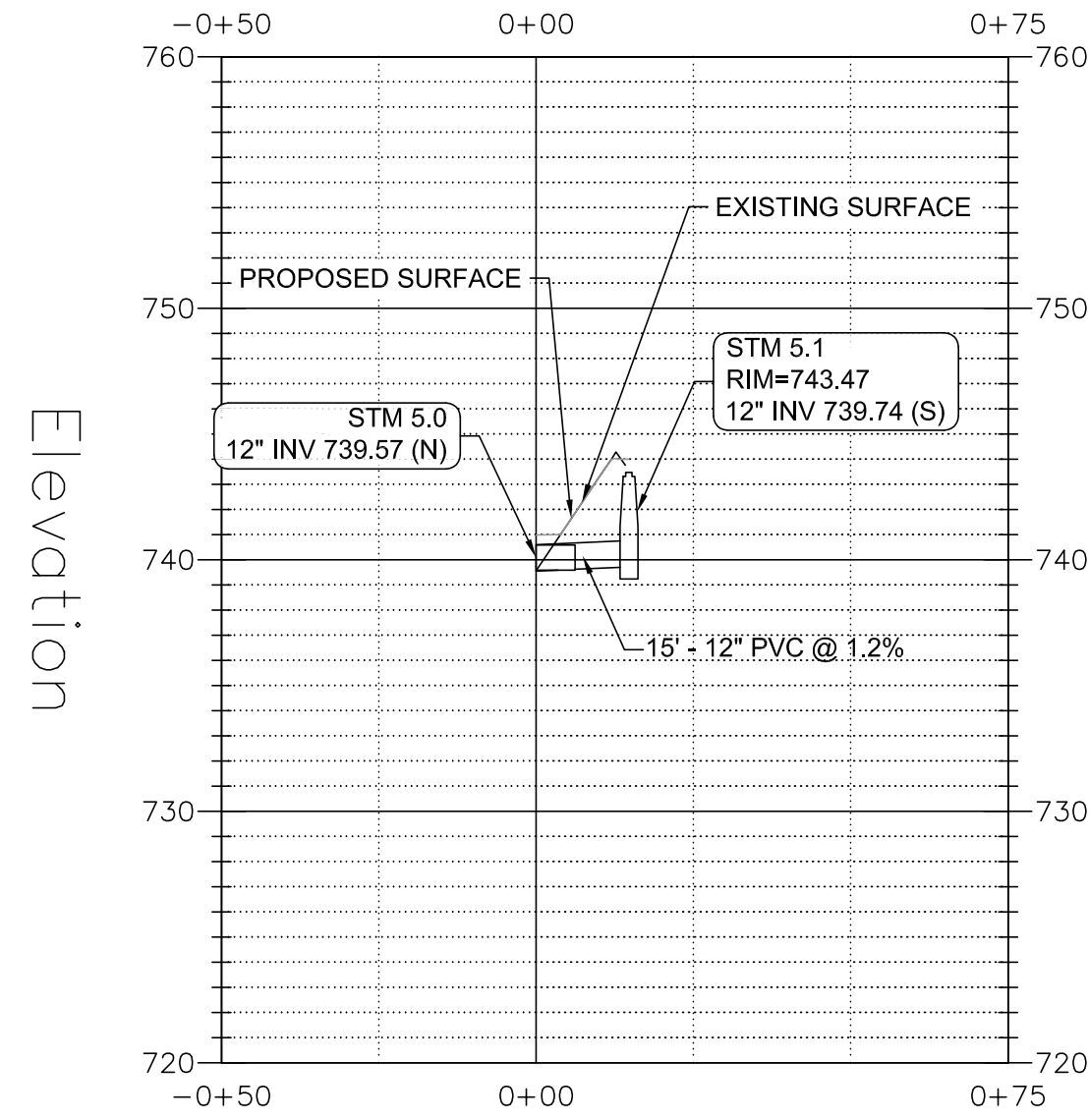
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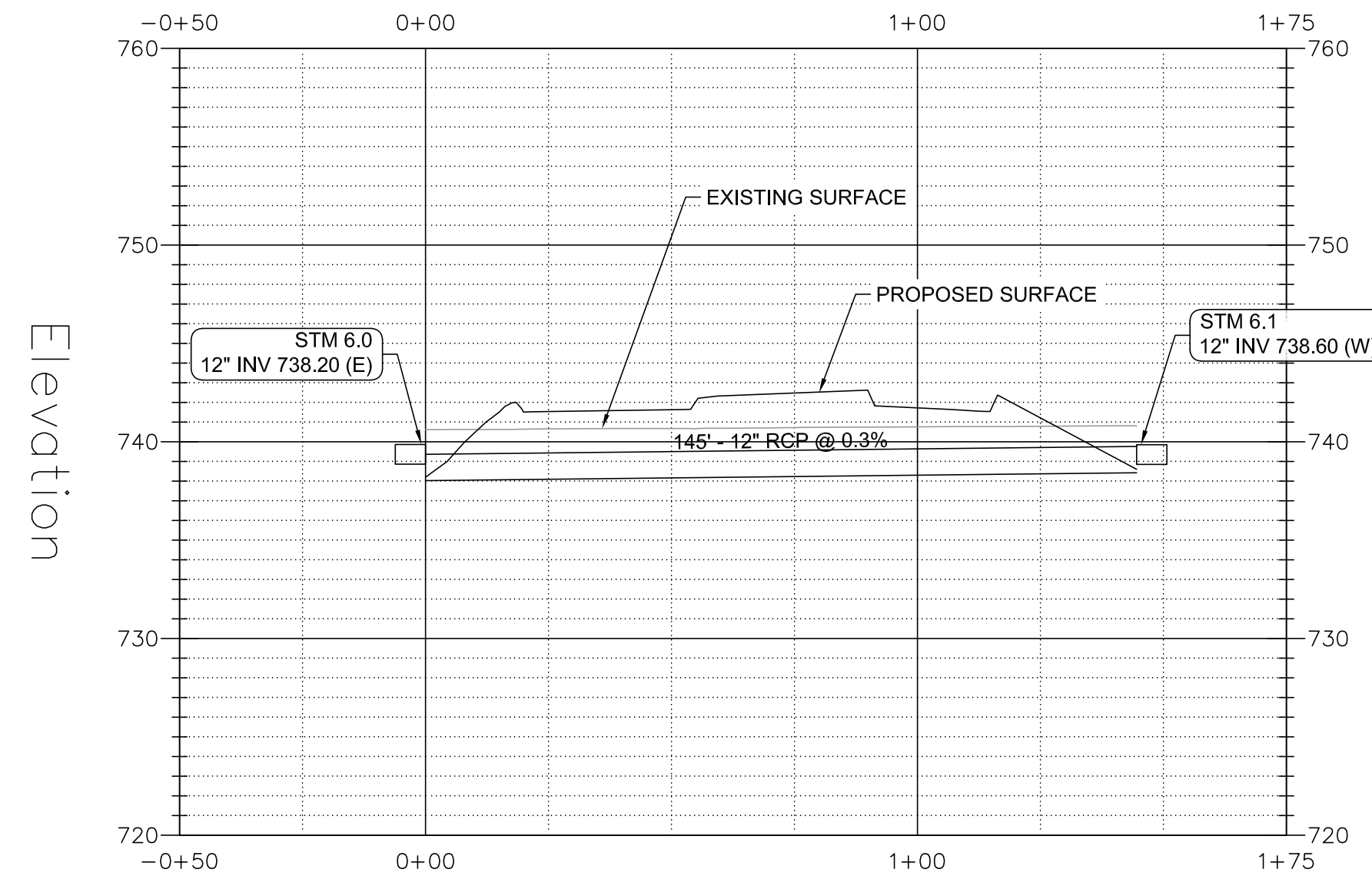
Profile View of STM 5 - S



Station

Structure	Structure Descriptions	Structure Details
STM 5.0	FES	12" N = 739.57
STM 5.1	2" DIA. INLET TYPE 11 F&L	RIM = 743.47 12" S = 739.74

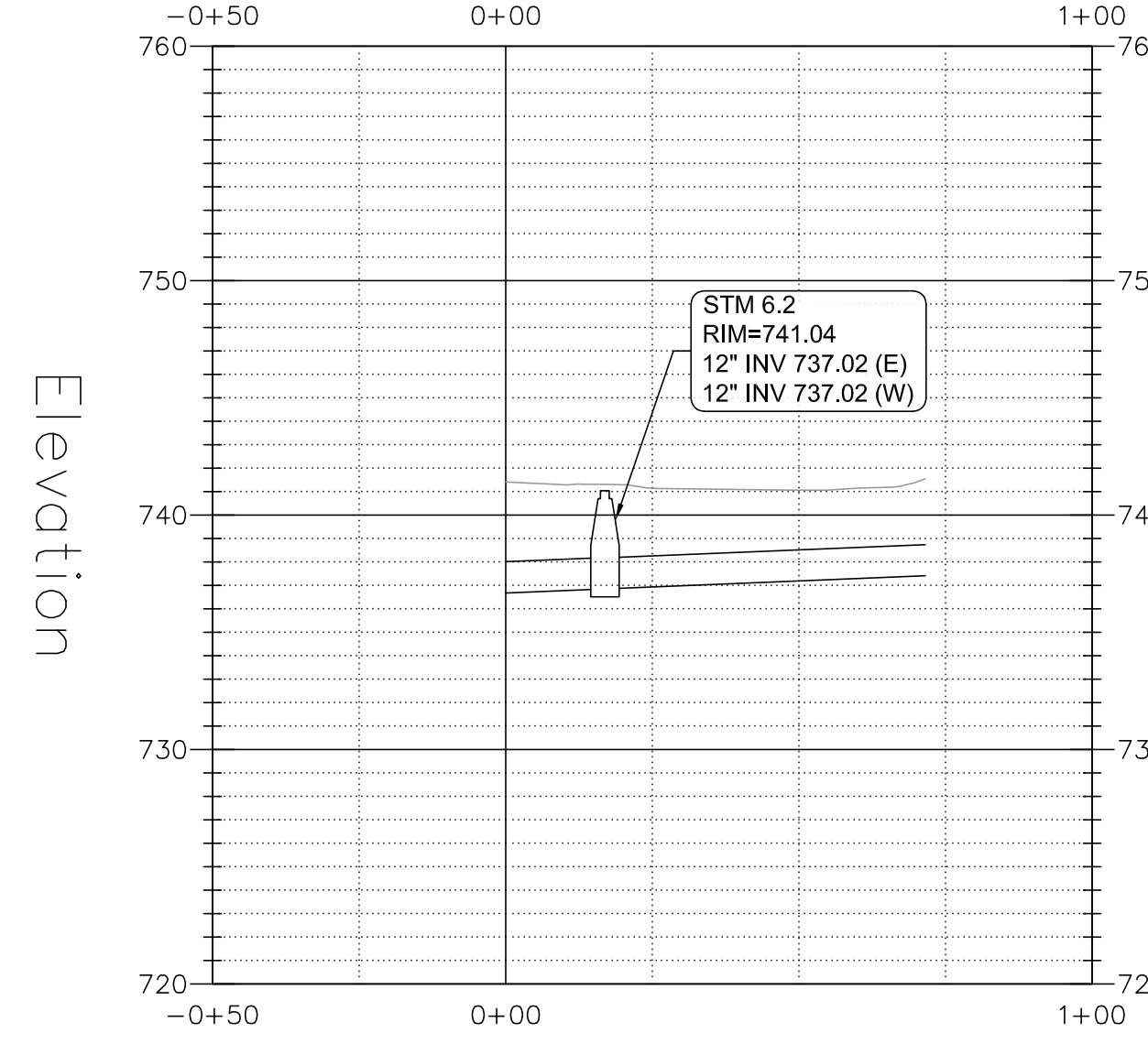
Profile View of STM 6 - S



Station

Structure	Structure Descriptions	Structure Details
STM 6.0	FES	12" E = 738.20
STM 6.1	FES	12" W = 738.60

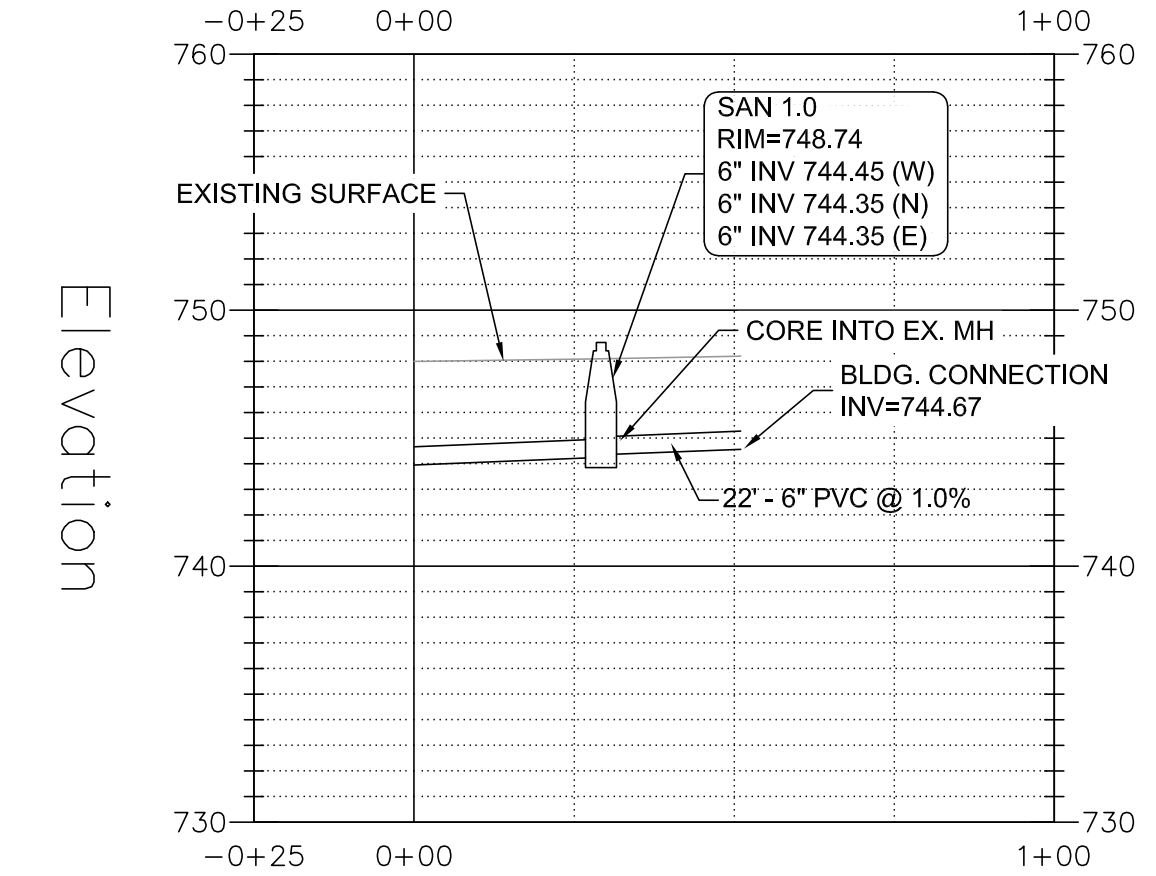
Profile View of STM 6.2 - S



Station

Structure	Structure Descriptions	Structure Details
STM 6.2	4" DIA. CB TYPE 11 F&L	RIM = 741.04 12" E = 737.02 12" W = 737.02

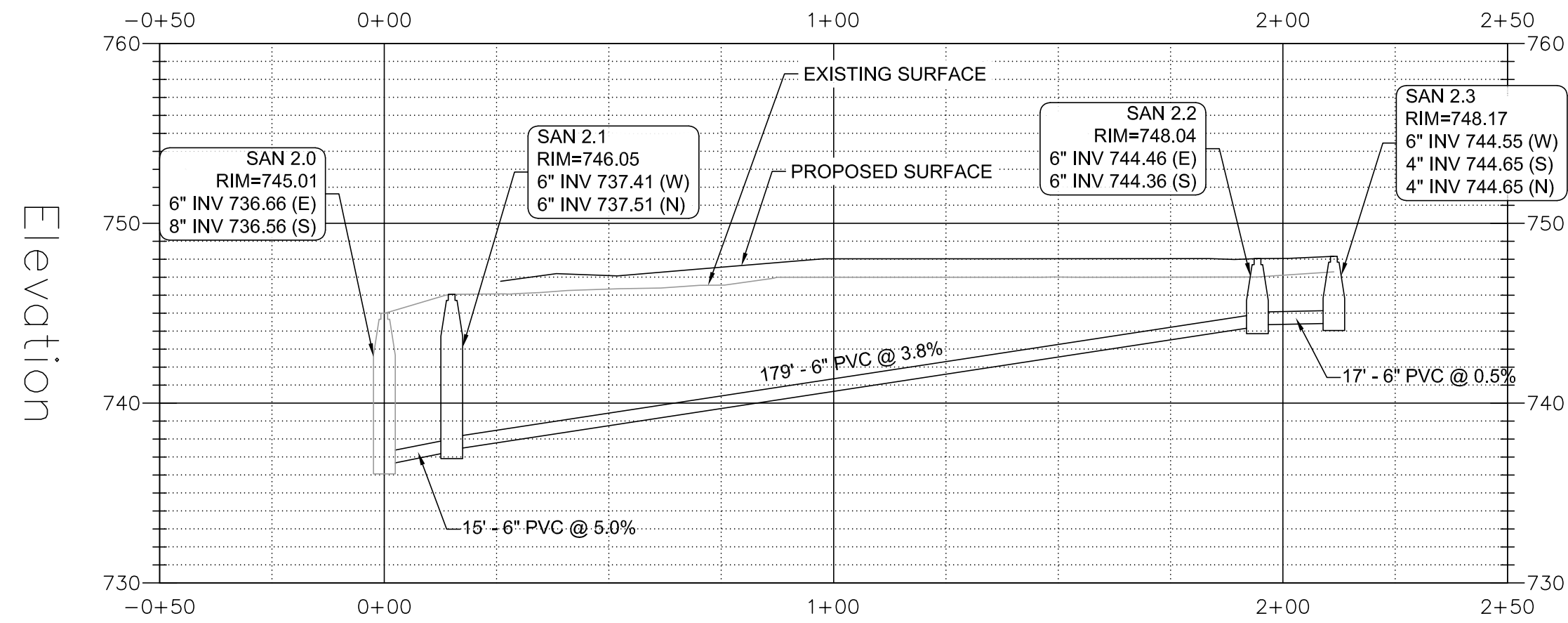
Profile View of SAN 1 - S



Station

Structure	Structure Descriptions	Structure Details
SAN 1.0	EX MH	RIM = 748.74 6" W = 744.45 6" N = 744.35 6" E = 744.35

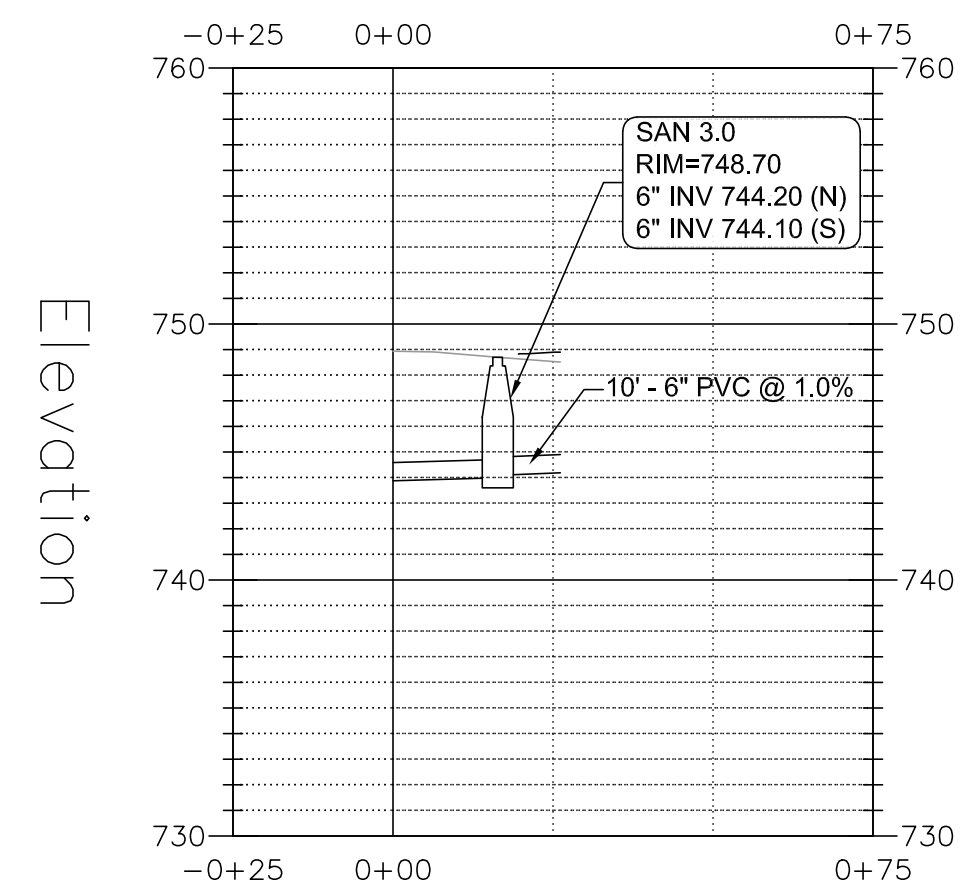
Profile View of SAN 2 - S



Station

Structure	Structure Descriptions	Structure Details
SAN 2.0	EX MH	RIM = 745.01 6" E = 736.66 8" S = 736.56
SAN 2.1	4" DIA. MH TYPE 1 F&L	RIM = 746.05 6" N = 737.51 6" W = 737.41
SAN 2.2	4" DIA. MH TYPE 1 F&L	RIM = 748.04 6" E = 744.46 6" S = 744.36
SAN 2.3	4" DIA. MH TYPE 1 F&L	RIM = 748.17 4" S = 744.65 4" N = 744.65 6" W = 744.55

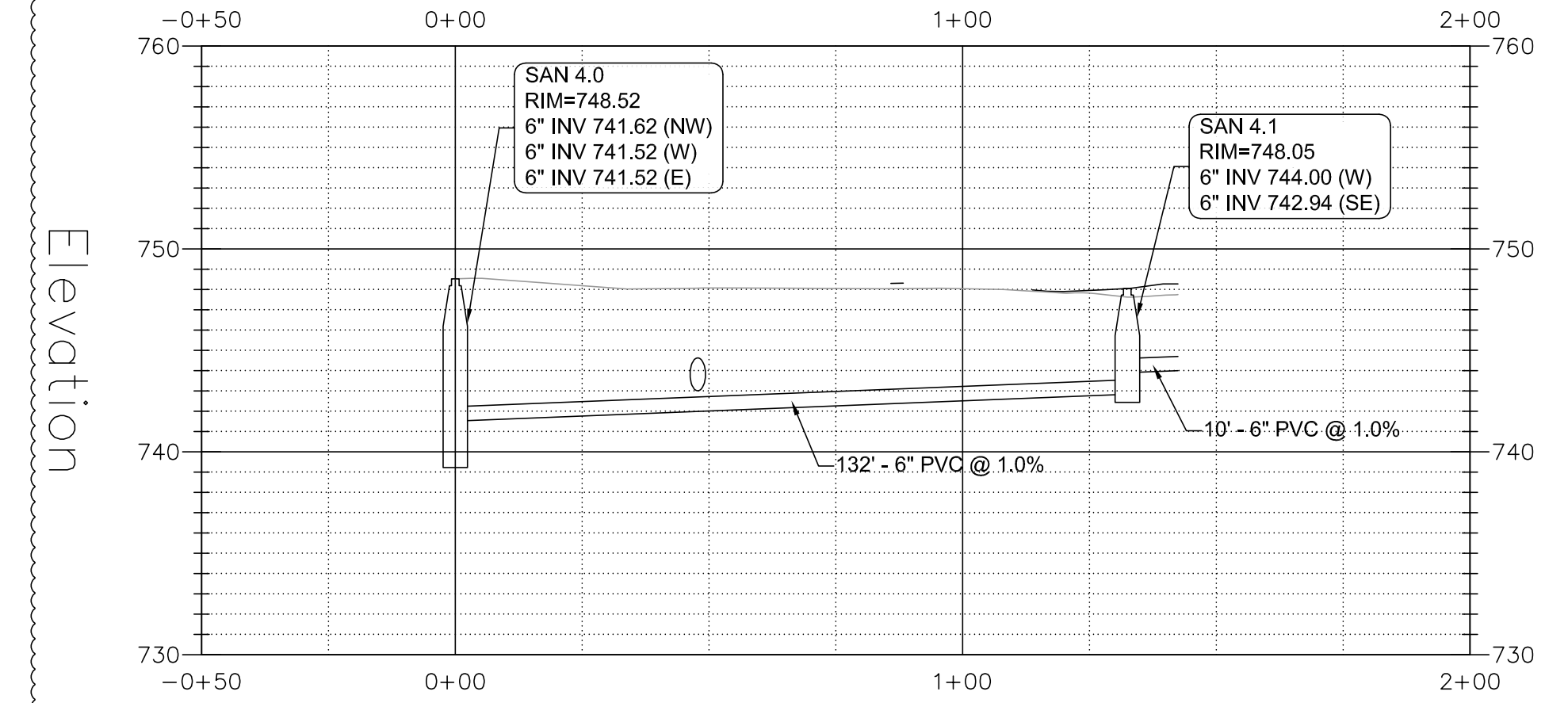
Profile View of SAN 3 - S



Station

Structure	Structure Descriptions	Structure Details
SAN 3.0	4" DIA. MH TYPE 1 F&L	RIM = 748.70 6" N = 744.20 6" S = 744.10

Profile View of SAN 4 - S



Station

Structure	Structure Descriptions	Structure Details
SAN 4.0	EX MH	RIM = 748.52 6" NW = 741.62 6" W = 741.52 6" E = 741.52
SAN 4.1	4" DIA. MH TYPE 1 F&L	RIM = 748.05 6" W = 744.00 6" SE = 742.94



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

REV	DESCRIPTION	DATE
△A	ISSUED FOR ADDENDUM 2 - B06	06.05.2019
△B	ISSUED FOR DOC MOD 005	06.03.2019
△C	ISSUED FOR DOC MOD 004	05.16.2019
	FINAL PERMIT SUBMITTAL	05.13.2019
	ISSUED FOR BID - BID GROUP 6	05.10.2019
	ISSUED FOR BID - BID GROUP 5	05.10.2019
	ISSUED FOR CONSTRUCTION-PHASE A	05.08.2019

COMMUNITY SCHOOL DISTRICT 99 - MFP IMPLEMENTATION SOUTH HIGH SCHOOL
 1436 NORFOLK STREET
 DOWNERS GROVE, IL 60516

UTILITY PROFILES PLAN - SOUTH

Project Number:
 5274-02
 Drawn By:
 DE
 Sheet:

C4.05

GENERAL NOTES

- 1. GENERAL BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE
2. DESIGN LIVE LOADS:
A. ROOFS: ORDINARY 20 PSF OR 300 LBS. CONCENTRATED LOAD
B. SCHOOLS: CLASSROOMS 40 PSF OR 1,000 LBS. CONCENTRATED LOAD
C. MISCELLANEOUS STORAGE: LIGHT 100 PSF
D. LOBBIES 100 PSF OR 2,000 LBS. CONCENTRATED LOAD
E. STAIRS & EXITS 100 PSF OR ACTUAL EQUIPMENT WEIGHT
F. MECHANICAL ROOMS 120 PSF OR ACTUAL EQUIPMENT WEIGHT
G. DESIGN LIVE LOADS HAVE BEEN REDUCED ACCORDING TO INDICATED GENERAL BUILDING CODE.
3. WIND DESIGN DATA:
A. BASIC WIND SPEED (3-SECOND GUST): 120 MPH
B. RISK CATEGORY: II
C. WIND EXPOSURE: B
D. INTERNAL PRESSURE COEFFICIENT (Gp): +/- 0.18
E. SEE ARCHITECTURAL DRAWINGS FOR COMPONENTS AND CLADDING WIND LOADS
4. EARTHQUAKE DESIGN DATA:
A. IMPORTANCE FACTOR (I): 1.25
B. RISK CATEGORY: I
C. SITE CLASS: B
D. SEISMIC DESIGN CATEGORY: C
E. DIRECTION: BOTH
F. FORCE RESISTING SYSTEMS: STEEL SYSTEMS NOT SPECIFICALLY DETAIL FOR SEISMIC RESISTANCE
G. RESPONSE COEFFICIENT (Cs): 0.014
H. RESPONSE MODIFICATION FACTOR (R): 2
I. DESIGN BASE SHEAR: 141 KIPS
J. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
5. SNOW DESIGN DATA:
A. GROUND SNOW LOAD (Ps): 30 PSF
B. FLAT ROOF SNOW LOAD (Pf): 30 PSF
C. EXPOSURE FACTOR (Ce): B
D. IMPORTANCE FACTOR (I): 1.10
E. THERMAL FACTOR (T): 1.0
6. SEE PLANS FOR SPECIAL SNOW LOAD AREAS AND DRIFTING.
7. REFERENCES TO STANDARDS ARE TO EDITIONS INDICATED IN SPECIFICATIONS AND APPLICABLE BUILDING CODE.
8. CONSTRUCTION MANAGER SHALL SUBMIT ANTICIPATED LOCATIONS OF CONSTRUCTION JOINTS TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
9. PRINCIPAL OPENINGS ARE INDICATED ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, BLOCKOUTS, CURBS AND KERFS.
10. THE STRUCTURAL DRAWINGS REPRESENT THE COMPLETED STRUCTURE AND DO NOT INDICATE CONSTRUCTION MEANS AND METHODS, SEQUENCES, PROCEDURES, TEMPORARY CONDITIONS, OR TEMPORARY SHORING AND BRACING.
11. SUBMIT SHOP DRAWINGS AND SUPPORTING CALCULATIONS, PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS, FOR PRE-FABRICATED OR PRE-ENGINEERED ELEMENTS INCLUDING BUT NOT LIMITED TO PRECAST CONCRETE FRAMING, STRUCTURAL STEEL CONNECTIONS, STEEL STAIRS, LIGHT GAUGE STEEL FRAMING, EXTERIOR STEEL STUD BACKUP, ETC.

EXISTING CONSTRUCTION NOTES

- 1. EXISTING CONSTRUCTION INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. VERIFY HORIZONTAL AND VERTICAL DIMENSIONS OF EXISTING CONSTRUCTION BEFORE WORK IS BEGUN. REPORT ANY VARIATION BETWEEN INDICATED DIMENSIONS AND MEASURED DIMENSIONS TO ARCHITECT/ENGINEER.
2. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED ON STRUCTURAL DRAWINGS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.
4. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER THAT AVOIDS DAMAGE TO EXISTING REINFORCEMENT. UTILIZE ULTRASONIC DETECTION METHODS TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
5. THOROUGHLY CLEAN THE FACE OF CONCRETE SURFACES CUT FROM EXISTING CONCRETE. ALLOW SURFACE TO COMPLETELY DRY. COAT WITH APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. CUT OFF EXPOSED REINFORCEMENT AND GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISH WITH AN EPOXY PAINT.
6. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, REMOVE CONCRETE IN A MANNER THAT MINIMIZES DAMAGE TO THE REINFORCEMENT. REPLACE DAMAGED REINFORCEMENT IN A MANNER APPROVED BY THE ARCHITECT/ENGINEER.
7. EXISTING 1999 ADDITIONS TO STRUCTURAL FRAMING AND LAYOUT IS BASED UPON EXISTING DRAWINGS PREPARED BY HEVLY, SNYDER, BENDER & ASSOCIATES, INC. DATED 09-28-1999.
8. EXISTING STRUCTURE MATERIAL PROPERTY SUMMARY:
STEEL COLUMN YIELD STRENGTH (Fy): 50 KSI

CONCRETE CORING NOTES

- 1. CORING OF CONCRETE STRUCTURAL ELEMENTS IS NOT PERMITTED UNLESS INDICATED ON THE STRUCTURAL DRAWINGS. APPROVED BY THE ARCHITECT/ENGINEER IN WRITING OR CORING MEETS THE CRITERIA LISTED BELOW.
2. CORING THROUGH COLUMNS, BEAMS, GIRDERS OR JOISTS IS NOT PERMITTED UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
3. CORING OF PAN JOIST SLABS IS PERMITTED PROVIDED A MINIMUM OF 3" CLEAR CONCRETE IS PROVIDED BETWEEN CORES. SAW CUTTING OF PAN JOIST SLABS IS PERMITTED WHEN APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
4. CORING OF ONE-WAY SLABS IS PERMITTED PROVIDED THE LONGITUDINAL TOP AND BOTTOM REINFORCEMENT IS LOCATED AND AVOIDED UTILIZING NON-DESTRUCTIVE TESTING METHODS. SUBMIT REQUEST IN WRITING TO ARCHITECT/ENGINEER WHEN CUTTING OF LONGITUDINAL REINFORCEMENT IS REQUIRED. CUTTING OF TEMPORARY REINFORCEMENT IS PERMITTED. SAW CUTTING OF ONE-WAY SLABS IS PERMITTED WHEN APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
5. CORING OR SAW CUTTING OF TWO-WAY SLABS IS NOT PERMITTED UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
6. CORING OF FROST WALLS/FOUNDATION WALLS SUPPORTED BY CONTINUOUS FOOTING FOUNDATIONS IS PERMITTED. CORING OF CONTINUOUS FOOTING FOUNDATIONS IS NOT PERMITTED UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
7. CORING OF BASEMENT WALLS IS PERMITTED PROVIDED THE WALL REINFORCEMENT IS LOCATED AND AVOIDED UTILIZING NON-DESTRUCTIVE TESTING METHODS. SUBMIT REQUEST IN WRITING TO ARCHITECT/ENGINEER WHEN CUTTING OF WALL REINFORCEMENT IS REQUIRED. SAW CUTTING OF BASEMENT WALLS IS PERMITTED WHEN APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
8. CORING OF PRECAST CONCRETE HOLLOW-CORE PLANKS IS NOT PERMITTED UNLESS APPROVED IN WRITING BY THE PRECAST PLANK ENGINEER OR UNLESS INDICATED AS APPROVED ON THE PRECAST PLANK DRAWINGS.

FOUNDATION NOTES

- 1. DESIGN SOIL PRESSURE: 6,000 PSF NET ALLOWABLE BEARING PRESSURE FOR NEW FREE STANDING FOUNDATIONS BEARING ON COMPETENT NATURAL CLAY SOILS OR ON NEW ENGINEERED FILL BEAN CONCRETE OVERLAYING COMPETENT NATURAL SILTY CLAY SOILS. 3,000 PSF NET ALLOWABLE BEARING PRESSURE FOR NEW SCAB-ON-FOUNDATIONS BEARING ON THE AFOREMENTIONED SOILS. INITIAL SITE PREPARATION SHALL CONSIST OF REMOVING THE EXISTING TOPSOIL AND CONCRETE PAVEMENTS ALONG WITH ANY OTHER SOFT OR UNSUITABLE MATERIALS FROM THE FOOT EXPOSED BUILDING AREAS. 5-FOOT EXPANDED PAVEMENT LIMITS AND 10 TO 5 FEET BEYOND THE TOE OF ENGINEERED FILLS. THE EXISTING GRAVEL BASE COURSE CAN BE STOCKPILED FOR LATER REUSE AS ENGINEERED FILL. SUITABLE BEARING SOILS FOR DIRECT FOUNDATION SUPPORT OR AS THE SUBGRADE FOR ENGINEERED BACKFILL AND INDIRECT FOUNDATION SUPPORT WERE ENCOUNTERED AT THE TEST BORING LOCATIONS AT DEPTHS RANGING FROM ABOUT 3 TO 5 FEET (POSSIBLY DEEPER IN UNEXPLORED AREAS OF THE SITE) BELOW THE EXISTING SITE GRADES TO HELP REDUCE DISTURBANCE OF THE FOUNDATION BEARING GRADE AT LEAST THE LAST (1) FOOT OF MATERIAL ABOVE THE DESIGN BEARING GRADE SHALL BE REMOVED WITH AN EXCAVATOR EQUIPPED WITH A SMOOTH EDGED BUCKET. SEE THE GEOTECHNICAL REPORT FOR ADDITIONAL RECOMMENDATIONS/REQUIREMENTS FOR ADJACENT EXISTING FOUNDATION PROTECTION, PROOFROLLING AND COMPACTION REQUIREMENTS. APPROVED ENGINEERED FILL MATERIALS, ETC.
2. THE FOUNDATION DESIGN IS BASED ON SUBSURFACE INFORMATION AND RECOMMENDATIONS CONTAINED IN A REPORT PREPARED BY ECS MIDWEST, LLC, REPORT # 16842-C1 AND DATED AUGUST 23, 2018.
3. ESTABLISH BEARING OF FOOTINGS IN STRATUM AS INDICATED. ELEVATIONS GIVEN ARE FOR BIDDING/ESTIMATING PURPOSES ONLY.
4. CONDUCT ON-SITE INSPECTION OF FOUNDATION BEARING STRATA DURING CONSTRUCTION BY A QUALIFIED TESTING AGENCY.
5. EXTEND EXTERIOR FOUNDATION ELEMENTS BELOW THE MAXIMUM ANTICIPATED FROST DEPTHS UNO ON PLANS INTERIOR NEAR COLUMN FOOTINGS ARE LOCATED WITHIN THE FROST ZONE. SEE GEOTECHNICAL REPORT FOR FROST DEPTH REQUIREMENTS.
6. PERFORM BACKFILL OPERATIONS ON BOTH SIDES OF GRADE BEAMS AND WALLS IN AN EQUAL MANNER AS NOT TO CREATE UNBALANCE OR LATERAL EARTH PRESSURES.
7. SLAB-ON-GRADE SHALL BE UNDERLAIN BY A MINIMUM OF 6 INCHES OF GRANULAR BASE COURSE LAYER OVER PROPERLY PREPARED SUBGRADE AND A 15 MIL. CONTINUOUS VAPOR RETARDER UNO ON PLANS. SEE GEOTECHNICAL REPORT FOR SPECIFIC DRAINAGE LAYER MATERIAL REQUIREMENTS. COMPACT THE SUBGRADE TO AT LEAST THE PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. THE INITIAL SUBGRADE PREPARATION SHALL CONSIST OF REMOVING THE EXISTING TOPSOIL AND PAVEMENTS ALONG WITH ANY OTHER SOFT OR UNSUITABLE MATERIALS FROM THE 10 FOOT EXPANDED BUILDING AREAS AND 5-FEET BEYOND THE TOE OF ENGINEERED FILLS. THE GEOTECHNICAL REPORT RECOMMENDS AGAINST THE FINAL SLAB SOILS REMAINING EXPOSED TO THE ELEMENTS FOR A PROLONGED PERIOD OF TIME AS THE SUBGRADE MAY BE DISTURBED AND/OR SETTLED. IF THE SLAB SECTION IS NOT CONSTRUCTED WITHIN A FEW DAYS AFTER EXPOSING THE FINAL DESIGN SUBGRADE, CONSIDERATION SHALL BE GIVEN TO LEAVING THE SUBGRADE APPROXIMATELY 1 FOOT ABOVE THE FINAL DESIGN SUBGRADE TO HELP REDUCE DISTURBANCE OF THE SUBGRADE SOILS. PER GEOTECHNICAL REPORT, IF THE EXISTING FILLS SOILS ARE TO REMAIN IN PLACE, THEY SHALL BE COMPACTED PER THE PROOFROLLING REQUIREMENTS IN THE GEOTECHNICAL REPORT.
8. REMOVE CERAMIC TERRAZES FROM CONNECTOR AND DECK BEFORE PLACING CONCRETE.

SHEAR CONNECTOR NOTES

- 1. PROVIDE 3/4" DIAMETER x 4" LONG HEADED STUDS AS SHEAR CONNECTORS IN COMPOSITE CONSTRUCTION.
2. SHEAR CONNECTORS SHALL CONFORM TO ASTM A108.
3. AUTOMATICALLY END WELD SHEAR CONNECTORS THROUGH DECK TO SUPPORTING STRUCTURAL MEMBERS IN FIELD, ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND AWS D1.1.
4. SEE TYPICAL SHEAR CONNECTOR PLACING DETAIL FOR FIELD PLACEMENT OF CONNECTORS.
5. REMOVE CERAMIC TERRAZES FROM CONNECTOR AND DECK BEFORE PLACING CONCRETE.

CONCRETE NOTES

- 1. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS.
2. PROVIDE CONCRETE IN THE FOLLOWING AREAS WITH SAND AND GRAVEL OR CRUSHED STONE AGGREGATES AND THE DESIGNATED COMPRESSIVE STRENGTH IN 28 DAYS:
A. FOOTINGS/FOUNDATION/MISCELLANEOUS WALLS (PER ACI) 4000 PSI
B. SLABS ON GRADE 3000 PSI
C. NON-STRUCTURAL TOPPING ON STRUCTURAL PRECAST CONCRETE 3000 PSI
D. STRUCTURAL PRECAST HOLLOW CORE PANELS 5000 PSI
3. PROVIDE CONCRETE IN THE FOLLOWING AREAS WITH LIGHTWEIGHT COARSE AGGREGATE, SAND FINE AGGREGATE AND THE DESIGNATED COMPRESSIVE STRENGTH IN 28 DAYS. THE 28-DAY AIR CONTENT SHALL NOT EXCEED 12% PCF.
A. SLAB-ON-STEEL COMPOSITE DECK 3000 PSI
4. PROVIDE CONCRETE PROTECTION FOR DEFORMED BAR REINFORCEMENT AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE INDICATED COVER APPLIES TO FIRE-RESISTANCE RATINGS OF 2 HOURS OR LESS UNLESS INDICATED AS A 2 OR 4 HOUR RATING. SEE ACI 318 AND THE GENERAL BUILDING CODE FOR CONDITIONS NOT INDICATED.
A. CONCRETE CAST AGAINST EARTH 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
a. FOUNDATION WALLS AND MISCELLANEOUS WALLS (FORMED) 1 1/2" EXTERIOR FACE
- 1/2" BARS AND SMALLER 1 1/2" EXTERIOR FACE
- 1/2" BARS AND GREATER 2" EXTERIOR FACE
C. CONCRETE NOT EXPOSED TO EARTH, WEATHER, OR CORROSIVE ENVIRONMENTS: COMPOSITE DECK SLABS 3/4" TOP
5. REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
A. DEFORMED BAR REINFORCEMENT, #3 BARS THROUGH #18 BARS, PER ASTM A615 - GRADE 60
B. WELDABLE DEFORMED BAR REINFORCEMENT PER ASTM A706, WELDING PER AWS D1.4
C. WELDED PLAIN WIRE REINFORCEMENT (WWW) OF COLD-DRAWN WIRE (20,000 PSI YIELD) PER ASTM A185.
6. STRUCTURAL FIBERS SHALL CONFORM TO MACRO SYNTHETIC, MONOFILAMENT "COARSE FIBERS" MADE FROM NYLON POLYOLEFIN THAT HAVE AN EQUIVALENT DIAMETER OF AT LEAST 10.0-INCHES (0.4 MM) BUT NOT GREATER THAN 30.0-INCHES (1.2 MM) WITH A MINIMUM ASPECT RATIO OF (LENGTH/EQUIVALENT DIAMETER) OF AT LEAST 50 PER ASTM C1396 AND ASTM C1699.
7. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315.
8. SPLICE REINFORCING BARS ONLY AS INDICATED ON DRAWINGS EXCEPT LAP SPLICE REINFORCING BARS DESIGNATED AS "CONTINUOUS" OR "JOINT" WITH CLASS LAP SPLICES. LAP SPLICES CONTINUOUS REINFORCING BARS AT SUPPORTS FOR BOTTOM BARS AND AT MIDSPAN FOR TOP AND SIDE BARS.
9. HOOK UNSHECKLED TOP AND SIDE REINFORCING BARS AT DISCONTINUOUS ENDS.
10. PLACING REINFORCEMENT:
A. LAP WELDED WIRE REINFORCEMENT AT LEAST ONE CROSS WIRE SPACING PLUS 2" BUT NOT LESS THAN 8 INCHES.
11. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONNECTION JOINTS TO EXPOSE AGGREGATE UNIFORMLY, LEAVING NO LANTANCE, LOOSESED PARTICLES OR DAMAGED CONCRETE.
12. FOR SLABS ON-GRADE REINFORCED WITH WELDED WIRE REINFORCEMENT (WWW), DEFORMED BAR CONCRETE REINFORCEMENT, OR MACROSYNTHETIC FIBER REINFORCEMENT, 12 FEET IS MAXIMUM SPACING FOR CONTROL JOINTS.
13. PROVIDE CHAMFERS, DRP LEDGES, SCUPPERS AND WASHES AS DETAILED ON ARCHITECTURAL DRAWINGS.
14. CONCRETE ELEMENTS EXPOSED TO WEATHER ARE NOT WATER TIGHT AND WILL DEVELOP CRACKS. CONFIRM REQUIREMENTS FOR SEALING AND/OR TREATING OF CONCRETE WITH ARCHITECTURAL DRAWINGS.

PRECAST HOLLOW CORE SLAB NOTES

- 1. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE PRECAST / PRESTRESSED CONCRETE INSTITUTE (PCI) AND THE AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS.
2. PROVIDE PRECAST HOLLOW CORE SLABS OF THICKNESS INDICATED IN PLAN TO SUPPORT THE INDICATED SUPERIMPOSED DEAD AND LIVE LOADS. WEIGHT OF HOLLOW CORE (NOT INCLUDING TOPPING SLAB) SLABS SHALL NOT EXCEED 80 PSF FOR 6-INCH, 10 PSF FOR 8-INCH, TO 19 PSF FOR 10-INCH OR 80 PSF FOR 12-INCH.
3. PRECAST HOLLOW CORE SLAB DESIGN REQUIREMENTS:
A. GROUDED KEYS SHALL BE CAPABLE OF TRANSFERRING A HORIZONTAL DIAPHRAGM SHEAR FORCE OF 2,000 PLF. MANY TWO PLACES.
B. MAXIMUM LONG TERM TOTAL DEFLECTION MINUS CAMBER OF FLOOR OR ROOF PLANKS SHALL NOT EXCEED L/400. MAXIMUM IMMEDIATE DEFLECTION UNDER SUPERIMPOSED LOADING SHALL NOT EXCEED L/800 OR 3/8" IN EITHER DIRECTION.
4. PROVIDE STRUCTURAL STEEL EMBEDDED ITEMS CONFORMING TO ASTM A38, UNLESS NOTED OTHERWISE.
5. GALVANIZE EMBEDDED ITEMS EXPOSED TO ELEMENTS AND WHERE INDICATED ON DRAWINGS ACCORDING TO ASTM A123. TOUCH-UP FIELD WELDS ON GALVANIZED ITEMS WITH PAINT CONFORMING TO TT-P-641.
6. COMPLETELY FILL KEYWAYS AND BUTT JOINTS WITH HIGH-STRENGTH / NON-SHRINK GROUT IMMEDIATELY AFTER ERECTION.
7. CONCRETE TOPPING SHALL BE NON-STRUCTURAL UNLESS NOTED OTHERWISE ON DRAWINGS.
8. SAW CUT CONTROL JOINTS IN TOPPING SLABS AT A MAXIMUM OF 16'-0" AND AT POTENTIAL CRACK LOCATIONS INCLUDING REINFORCING CORNERS, THIN SECTIONS OR WIDTHS, ETC. SEE PLAN NOTES FOR ADDITIONAL CONTROL JOINT INFORMATION.
9. LOAD STEEL FRAMING SUPPORTING PRECAST HOLLOW CORE SLABS SYMMETRICALLY DURING ERECTION OR ADEQUATELY BRACE FRAMING TO PREVENT ROTATION.
10. STEEL FRAMING SUPPORTING PRECAST SLABS HAS BEEN DESIGNER FOR A TOP FLANGE CONTINUOUSLY BRACED CONDITION. BRACE TOP FLANGE OF BEAM IMMEDIATELY AFTER ERECTION OF EACH PLANK AS INDICATED ON DRAWINGS. ALTERNATELY, PROVIDE CONTINUOUS TEMPORARY BRACING TO BEAM TOP FLANGE. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.
11. PROVIDE TEMPORARY BRACING TO BUILDING FRAME DURING CONSTRUCTION UNTIL FLOOR DIAPHRAGM IS COMPLETE INCLUDING GROUTING OF PLANKS, WELDING TO SUPPORTS AND THE ATTACHMENT OF DIAPHRAGM TO LATERAL LOAD RESISTING SYSTEM IS COMPLETE. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.
12. HOLLOW CORE SLAB FIRE RATING: 1-HOUR

REINFORCED CONCRETE MASONRY NOTES

- 1. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI), THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) AND THE MASONRY SOCIETY (TMS) STANDARDS.
2. REINFORCED GROUDED MASONRY IS DESIGNED FOR AN Fm OF 2,500 PSF USING MEDIUM WEIGHT MASONRY BLOCKS WITH 2 CELLS PER 16" LENGTH OF BLOCK, UNLESS NOTED OTHERWISE, USE RUNNING BOND CONSTRUCTION.
3. IN ADDITION TO NOTE 2, REINFORCED GROUDED MASONRY IS DESIGNED FOR THE FOLLOWING:
A. Fm = 3,250 PSI
B. Fg = 2,500 PSI
4. FURNISH DEFORMED BAR REINFORCING, #3 BARS THROUGH #11 BARS, CONFORMING TO ASTM A615, GRADE 60.
5. VERTICALLY REINFORCE GROUDED MASONRY AS INDICATED ON PLANS AND SCHEDULES. IF NOT INDICATED, PROVIDE #4 @ 48" VERTICAL REINFORCEMENT.
6. UNLESS NOTED OTHERWISE, DOWEL REINFORCED MASONRY WALLS INTO SUPPORTS WITH MATCHING SIZE AND SPACING OF WALL VERTICAL REINFORCEMENT.
7. LAP SPLICE REINFORCEMENT 48 BAR DIAMETERS BUT NOT LESS THAN 16".
8. HORIZONTALLY REINFORCE GROUDED MASONRY WITH A MINIMUM OF TWO 9 GAUGE OR 3/8" DIAMETER WIRES IN A TRUSS TYPE CONFIGURATION AT 16" IN BED JOINTS. SEE DRAWINGS FOR ADDITIONAL HORIZONTAL REINFORCEMENT REQUIREMENTS.
9. LOCATE BOND BEAMS VERTICALLY AT 10 FEET MAXIMUM AT SILLS AND TOP OF WALLS. REINFORCE BOND BEAMS WITH #6 CONTINUOUS BARS, UNLESS NOTED OTHERWISE IN THE DRAWINGS. OMIT HORIZONTAL BED JOINT REINFORCEMENT WHERE BOND BEAMS OCCUR.
10. PROVIDE VERTICAL CONTROL JOINTS IN REINFORCED MASONRY WALLS WITH SPACING NOT TO EXCEED 16 FEET. PROVIDE #4 @ 4" LONG SMOOTH DOWELS AT 16" ACROSS THE JOINT. PREVENT BOND BETWEEN THE BAR AND GROUT WITH GREASE OR PLASTIC SLUICE. CAP DOWELS TO ALLOW FOR 1" OF MOVEMENT.
11. LOCATE VERTICAL CONTROL JOINTS AT EXTERIOR EXPOSED REINFORCED MASONRY WALLS AT THE FOLLOWING LOCATIONS AT A MINIMUM AND AS INDICATED ON THE ARCHITECTURAL DRAWINGS:
A. ABRUPT CHANGES IN WALL HEIGHT
B. CHANGES IN WALL THICKNESS
C. CENTERED OVER JOINTS IN FOUNDATION WALLS
D. AT A MAXIMUM OF ONE-HALF THE INDICATED TYPICAL JOINT SPACING FROM BONDED WALL INTERSECTIONS, CORNERS OR CHANGES IN WALL DIRECTION.

POST INSTALLED ADHESIVE (CHEMICAL) ANCHOR NOTES

- 1. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ADHESIVE ANCHORS IN NORMAL WEIGHT CONCRETE SHALL UTILIZE HILTI HIT-HY 200 SAFE SET INJECTABLE ADHESIVE SYSTEM WITH HILTI HIT-Z CARBON STEEL ANCHOR RODS. THE STAINLESS STEEL ANCHOR RODS SHALL BE HILTI HIT-Z AND SHALL ONLY BE UTILIZED WHEN INDICATED ON THE DRAWINGS. (NOTE: IF BASE MATERIAL TEMPERATURE IS LESS THAN 41 DEGREE FAHRENHEIT AT THE TIME OF INSTALLATION, THEN CLEANING OF THE DRILLED HOLE IS REQUIRED)
3. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ADHESIVE ANCHORS IN SOLID GROUDED CONCRETE MASONRY UNITS SHALL UTILIZE HILTI HIT-HY 200 INJECTABLE ADHESIVE SYSTEM WITH HILTI HIT-Z CARBON STEEL CONTINUOUSLY THREADED ANCHOR RODS. THE STAINLESS STEEL CONTINUOUSLY THREADED ANCHOR RODS SHALL BE HILTI HIT-HS 304 AND SHALL ONLY BE UTILIZED WHEN INDICATED ON THE DRAWINGS.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ADHESIVE ANCHORS IN HOLLOW CONCRETE MASONRY UNITS SHALL UTILIZE HILTI HIT-HY 200 INJECTABLE MASONRY ADHESIVE WITH HILTI HIT-HS-4 THREADED ANCHOR RODS AND SCHERL TUBES. WHEN INDICATED ON THE DRAWINGS, STAINLESS STEEL RODS SHALL CONFORM TO A815 304 OR 316.
5. HEX NUTS SHALL CONFORM TO ASTM A 563 GRADE 60 FOR CARBON STEEL ANCHOR RODS AND ASTM F 594 FOR STAINLESS STEEL ANCHOR RODS.
6. WASHERS SHALL CONFORM TO ASTM F 436 FOR CARBON STEEL ANCHOR RODS AND ASTM A 240 FOR STAINLESS STEEL ANCHOR RODS.
7. CREATE HOLES IN BASE MATERIAL PER MANUFACTURER'S RECOMMENDATIONS TO REQUIRED DIAMETER AND EMBEDMENT DEPTH IN DRY CONCRETE/MASONRY WITHIN ANSI TOLERANCES.
8. DO NOT DAMAGE OR DISTURB EXISTING CONCRETE REINFORCEMENT. UTILIZE NON-DESTRUCTIVE METHODS TO LOCATE AND AVOID EXISTING REINFORCEMENT PRIOR TO DRILLING.
9. CLEAN BORE HOLE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. CLEAR BORE HOLE OF DUST, CE, OIL, DEBRIS OR OTHER CONTAMINANTS PRIOR TO ADHESIVE INJECTION.
10. INJECT ADHESIVE ONLY WHEN BASE MATERIAL TEMPERATURES ARE WITH MANUFACTURER'S DESIGNATED RANGE.
11. INSTALL ANCHORS ACCORDING TO MANUFACTURER'S WRITTEN REQUIREMENTS. DO NOT DISTURB OR LOAD ANCHOR RODS UNTIL DESIGNATED ADHESIVE CURE TIME HAS ELAPSED OR UNLESS OTHERWISE SPECIFIED BY MANUFACTURER.
12. POST INSTALLED ADHESIVE (CHEMICAL) ANCHORS ARE NOT PERMITTED FOR OVERHEAD USE.

STRUCTURAL STEEL NOTES

- 1. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS.
2. STRUCTURAL STEEL MATERIAL REQUIREMENTS:
A. WIDE FLANGED AND TEE SHAPES SHALL CONFORM TO ASTM A992
B. PLATES, ANGLES AND CHANNELS SHALL CONFORM TO ASTM A572
C. ROUND HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE C (Fy = 46 KSI)
D. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE C (Fy = 50 KSI)
E. ANCHOR RODS SHALL CONFORM TO ASTM F1554 - GRADE 55 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. STRUCTURAL STEEL CONNECTION REQUIREMENTS:
A. STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
B. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT INDICATED IS PROHIBITED.
C. SELECT CONNECTIONS NOT INDICATED ON DRAWINGS FROM APPROPRIATE TABLES OF THE AISC MANUAL.
D. DESIGN BEAM-TO-BEAM AND BEAM-TO-COLUMN SHEAR CONNECTIONS FOR 40% OF SHEAR CAPACITY OF WEB, OR REACTION INDICATED ON DRAWINGS, WHICHEVER IS GREATER.
E. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC WELDED CONNECTIONS MANUAL FOR FIELD AND SHOP WELDS. USE ONLY LOW-HYDROGEN ELECTRODES ON ASTM A242, A514, A572 AND A588 STEEL.
F. PROVIDE 3/16" MINIMUM FILLET WELDS MEETING THE MINIMUM REQUIREMENTS OF AISC WITH A MINIMUM SIZE OF 3/16" UNLESS NOTED OTHERWISE.
G. CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A325 OR A490, UNLESS NOTED OTHERWISE.
H. SUBMIT DESIGN ORDERS SHEETS FOR STRUCTURAL STEEL CONNECTIONS UNLESS DESIGN IS SPECIFICALLY INDICATED ON THE DRAWINGS. DESIGN CALCULATIONS SHALL BE BASED UPON LOADING CRITERIA INDICATED ON THE DRAWINGS AND SHALL BE PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS.
4. PAINT STRUCTURAL STEEL RECEIVING FIREPROOFING ACCORDING TO SPECIFICATIONS UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.
5. TOUCH UP FIELD WELDS AND CONNECTIONS OF PAINTED STRUCTURAL STEEL WITH SAME PAINT AS USED IN SHOP.
6. UNLESS NOTED OTHERWISE, GALVANIZE STRUCTURAL STEEL MEMBERS AND EMBEDS EXPOSED TO ELEMENTS AND WHERE INDICATED ON DRAWINGS. GALVANIZING SHALL CONFORM TO ASTM A123. SEAL WELD CONNECTIONS PRIOR TO GALVANIZING. TOUCH UP FIELD WELDS ON GALVANIZED ITEMS WITH PAINT CONFORMING TO TT-P-641.
7. ERECT STEEL BEAMS WITH CAMBER AS INDICATED ON DRAWINGS. BEAMS WITH SPECIFIED CAMBER OF 1/2" OR GREATER SHALL BE PHYSICALLY CAMBERED. IF CAMBER IS NOT INDICATED ON THE DRAWINGS, BEAMS ARE TO BE FABRICATED AND ERECTED WITH "INCIDENTAL" CAMBER UP.
8. AUTOMATICALLY END WELD HEADED STUDS AND DEFORMED BARS WHERE INDICATED ON DRAWINGS.
9. DO NOT ATTACH EXTERIOR WALL ELEMENTS TO STEEL FRAMING UNTIL DECK HAS BEEN ATTACHED TO FRAMEWORK AND STRUCTURAL BRACING IS IN PLACE (OR ADEQUATE TEMPORARY BRACING HAS BEEN INSTALLED). EXTERIOR WALL ELEMENTS ATTACHED TO STEEL FRAMING SHALL HAVE CONNECTIONS WHICH ALLOW FOR BOTH HORIZONTAL AND VERTICAL ADJUSTMENT TO COMPENSATE FOR MEMBER ROTATION AND DEFLECTION.

STEEL JOIST NOTES

- 1. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARDS.
2. PROVIDE STEEL JOISTS WITH DOUBLE ANGLE TOP AND BOTTOM CHORDS.
3. DESIGN STEEL JOISTS AT ROOF FOR NET UPLIFT NORMAL TO ROOF SURFACE OF 15 PSF.
4. ATTACH CONCENTRATED LOADS TO JOISTS AT JOIST PANEL POINTS ONLY.
5. WHERE JOIST BOTTOM CHORD EXTENSIONS ARE INDICATED, DO NOT ATTACH TO COLUMNS, BEAMS, OR WALLS UNTIL ROOF DEAD LOAD IS IN PLACE.
6. PROVIDE JOIST BRIDGING ACCORDING TO SJI REQUIREMENTS.
7. DESIGN STEEL JOIST DIAGONAL WEB MEMBERS LOCATED WITHIN THE MIDDLE 1/3 OF THE SPAN FOR A COMPRESSION FORCE OF AT LEAST 10% OF THE JOIST END REACTION.
8. JOIST SEATS AT DIAPHRAGM BOUNDARIES, LATERAL LOAD RESISTING ELEMENTS AND COLLECTOR ELEMENTS SHALL HAVE THE CAPACITY TO RESIST A MINIMUM LATERAL LOAD OF 100 LBS. APPLIED PER FOOT TO THE TOP OF THE JOIST SEAT (OR JOIST SEAT ROLL-OVER). SEE PLAN FOR LOCATION AND MAGNITUDE OF JOIST SEATS REQUIRING INCREASED ROLL-OVER CAPACITY.
9. DESIGN STEEL JOISTS FOR TRAVELING PROVISIONAL LOADS, OF WHICH ONE CONCENTRATED LOAD OF 300 LBS PER FOOT OF CHORD PANEL POINTS AND A CONCENTRATED LOAD OF 100 LBS. MAY BE PLACED BETWEEN ANY TWO BOTTOM CHORD PANEL POINTS.

SPECIAL DESIGN JOIST NOTES

- 1. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARDS.
2. SEE SHEET S4-20 FOR SPECIAL DESIGN JOIST SCHEMATIC LOADING. LOADING INDICATED ON DRAWINGS INDICATES BOTH IMPOSED DEAD LOAD (D) AND IMPOSED LIVE LOAD (L). DEAD LOADING INCLUDES JOIST SELF WEIGHT.
3. DESIGN JOISTS IN EITHER OF THE FOLLOWING WAYS:
A. DESIGN WITH UNEQUAL PANEL SPACES WITH PANEL POINTS OCCURRING AT LOCATION OF LOADS INDICATED ON SCHEMATIC DRAWING.
B. DESIGN WITH EQUAL PANEL SPACES WITH LOADING INDICATED ON SCHEMATIC DRAWINGS OCCURRING AS LOADING AND PRODUCING BENDING STRESSES IN CHORDS. DESIGN TOP AND BOTTOM CHORDS AS A CONTINUOUS MEMBER SUBJECT TO COMBINED AXIAL AND BENDING STRESSES PRODUCED BY LOADING INDICATED ON SCHEMATIC DRAWING.
4. DESIGN JOIST TO LIMIT DEFLECTION UNDER TOTAL LOAD TO L/240, UNLESS NOTED OTHERWISE.
5. CAMBER JOISTS PER STANDARDS OF SJI, UNLESS NOTED OTHERWISE ON DRAWINGS.
6. PROVIDE FULL DEPTH CANTILEVERED END WHERE INDICATED.
7. PROVIDE VERTICAL WEB MEMBER AND TOP OR BOTTOM CHORD PANEL POINT AT CENTERLINE OF SUPPORT AT CANTILEVERED END.
8. PROVIDE REQUIRED BRACING FOR BOTTOM CHORD SUBJECT TO COMPRESSION DUE TO CANTILEVER MOMENT.
9. PROVIDE JOIST BRIDGING ACCORDING TO SJI REQUIREMENTS.
10. FOR JOISTS REQUIRING SPECIAL DESIGN, SUBMIT SHOP DRAWINGS AND SUPPORTING CALCULATIONS PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN STATE OF ILLINOIS.

STEEL DECK NOTES

- 1. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) / STEEL DECK INSTITUTE (SDI) STANDARDS.
2. ROOF STEEL DECK SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI AND FLOOR STEEL DECK SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
3. WHERE INDICATED ON DRAWINGS, PROVIDE 2" DEEP x 18 GAUGE STEEL DECK IN COMPOSITE CONSTRUCTION WITH A GALVANIZED FINISH AND WELDS WITH SUPPORT FASTENERS OF 5/8" PUDLE WELDS IN 3/4" PATTERN. DECK SHALL SPAN FOLLOWING DISTANCES AND CONDITIONS WITHOUT SHORING: SINGLE SPANS 12'-0" TO TWO SPANS 12'-0" THREE OR MORE SPANS 12'-0". WHERE DECK SPAN EXCEEDS VALUES LISTED, SHORE DECK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SUBMIT DECK LOAD CAPACITY AND SHORING DATA TO ARCHITECT.
4. WHERE INDICATED ON DRAWINGS, PROVIDE STEEL ROOF DECK OF 1 1/2" DEEP x 18 GAUGE, WIDE RIB GALVANIZED DECK AND WELDS WITH SUPPORT FASTENERS OF 3/8" TEK SCREWS PER SPAN. DO NOT EXCEED 36" OR ONE-HALF OF DECK SPAN FOR SIEDELP FASTENER SPACING. STEEL ROOF DECK AND ATTACHMENT SHALL HAVE A NET UPLIFT CAPACITY NORMAL TO ROOF SURFACE OF 15 PSF.
5. WHERE INDICATED ON DRAWINGS, PROVIDE STEEL ROOF DECK OF 1 1/2" DEEP x 18 GAUGE ACUSTICAL CELLULAR, WIDE RIB GALVANIZED DECK AND WELDS WITH SUPPORT FASTENERS OF 5/8" PUDLE WELDS IN A 2/4" PATTERN AND SIEDELP FASTENERS OF 3/8" TEK SCREWS PER SPAN. DO NOT EXCEED 36" OR ONE-HALF OF DECK SPAN FOR SIEDELP FASTENER SPACING. STEEL ROOF DECK AND ATTACHMENT SHALL HAVE A NET UPLIFT CAPACITY NORMAL TO ROOF SURFACE OF 15 PSF.
6. WHERE INDICATED ON DRAWINGS, PROVIDE STEEL ROOF DECK OF 3" DEEP x 18 GAUGE ACUSTICAL CELLULAR, WIDE RIB GALVANIZED DECK AND WELDS WITH SUPPORT FASTENERS OF 5/8" PUDLE WELDS IN A 2/4" PATTERN AND SIEDELP FASTENERS OF 3/8" TEK SCREWS PER SPAN. DO NOT EXCEED 36" OR ONE-HALF OF DECK SPAN FOR SIEDELP FASTENER SPACING. STEEL ROOF DECK AND ATTACHMENT SHALL HAVE A NET UPLIFT CAPACITY NORMAL TO ROOF SURFACE OF 15 PSF.

POST INSTALLED MECHANICAL ANCHOR NOTES

- 1. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, MECHANICAL ANCHORS IN NORMAL OR LIGHTWEIGHT CONCRETE SHALL UTILIZE CARBON STEEL HILTI KWIK BOLT TZ EXPANSION ANCHORS. THE STAINLESS STEEL ANCHOR BODY, NUT, WASHER AND EXPANSION SLEEVE SHALL ONLY BE UTILIZED WHEN INDICATED ON THE DRAWINGS.
3. CREATE HOLES IN BASE MATERIAL PER MANUFACTURER'S RECOMMENDATIONS TO REQUIRED DIAMETER AND EMBEDMENT DEPTH WITHIN ANSI TOLERANCES.
4. DO NOT DAMAGE OR DISTURB EXISTING CONCRETE REINFORCEMENT. UTILIZE NON-DESTRUCTIVE METHODS TO LOCATE AND AVOID EXISTING REINFORCEMENT PRIOR TO DRILLING.
5. CLEAN BORE HOLE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. CLEAR BORE HOLE OF DUST, CE, OIL, DEBRIS OR OTHER CONTAMINANTS PRIOR TO ADHESIVE INJECTION.
6. INSTALL ANCHORS ACCORDING TO MANUFACTURER'S WRITTEN REQUIREMENTS.
7. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
8. UNLESS NOTED OTHERWISE ON THE DRAWINGS, DEFORMED REINFORCING BAR DOWELS DRILLED AND PLACED IN NORMAL WEIGHT CONCRETE SHALL UTILIZE HILTI HIT-HY 200 INJECTABLE ADHESIVE.
9. CREATE HOLES IN BASE MATERIAL PER MANUFACTURER'S RECOMMENDATIONS TO REQUIRED F 594 FOR STAINLESS STEEL ANCHOR RODS.
10. DO NOT DAMAGE OR DISTURB EXISTING CONCRETE REINFORCEMENT. UTILIZE NON-DESTRUCTIVE METHODS TO LOCATE AND AVOID EXISTING REINFORCEMENT PRIOR TO DRILLING.
11. CLEAN BORE HOLE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. CLEAR BORE HOLE OF DUST, CE, OIL, DEBRIS OR OTHER CONTAMINANTS PRIOR TO ADHESIVE INJECTION.
12. INSTALL REINFORCING BARS ACCORDING TO MANUFACTURER'S WRITTEN REQUIREMENTS. DO NOT DISTURB OR LOAD REINFORCING BARS UNTIL DESIGNATED ADHESIVE CURE TIME HAS ELAPSED OR UNLESS OTHERWISE SPECIFIED BY MANUFACTURER.

ISSUED FOR BID - BID GROUP 6 - STRUCTURAL CONCRETE MATERIAL ALLOWANCE SUMMARY

IN ADDITION TO THE CONCRETE SCOPE INDICATED ON THE BID GROUP 6 STRUCTURAL DRAWINGS DATED 5.10.2019, ALLOW FOR THE FOLLOWING ADDITIONAL CONCRETE AND CONCRETE REINFORCEMENT MATERIAL QUANTITIES. ALLOWANCES SHALL INCLUDE MATERIAL COSTS AS WELL AS ASSOCIATED COSTS OF LABOR, ERECTION, ENGINEERING, FABRICATION, TRANSPORTATION, TAXES AND FEES.

FOUNDATION PLANS - (SHEETS S2.1B-C1 AND S2.1B-C2)

- AT STAIR 1-401 - ALLOW FOR (4) F36 FOOTINGS FOR SUPPORT OF STAIR COLUMNS. T/FOOTINGS EL: (-)0'-0".
• ALLOW FOR (10) RECESSED ELECTRICAL FLOOR BOXES IN THE SLAB-ON-GRADE. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX SCHEDULE AND LOCATIONS. PROVIDE 1'-0"x2'-6"x2'-6" THICKENED SLAB-ON-GRADE AT EACH FLOOR BOX LOCATION. REINFORCE SLAB PER TYPICAL THICKENED SLAB-ON-GRADE DETAIL.



Owner



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P 630.969.7000
F 630.969.7979

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Table with 3 columns: REV, ISSUE, DATE. Row 14: ISSUED FOR ADDENDUM 2 - BID GROUP 6, 05.31.2019. Row 15: ISSUED FOR BID - BID GROUP 6, 05.10.2019. Row 16: ISSUED FOR 75% CD - PHASE B, 05.10.2019. Row 17: ISSUED FOR 50% CONSTRUCTION DOCUMENTS - PHASES, 04.12.2019. Row 18: ISSUED FOR DESIGN DEVELOPMENT - PHASE B, 03.11.2019.

MFP IMPLEMENTATION - SOUTH

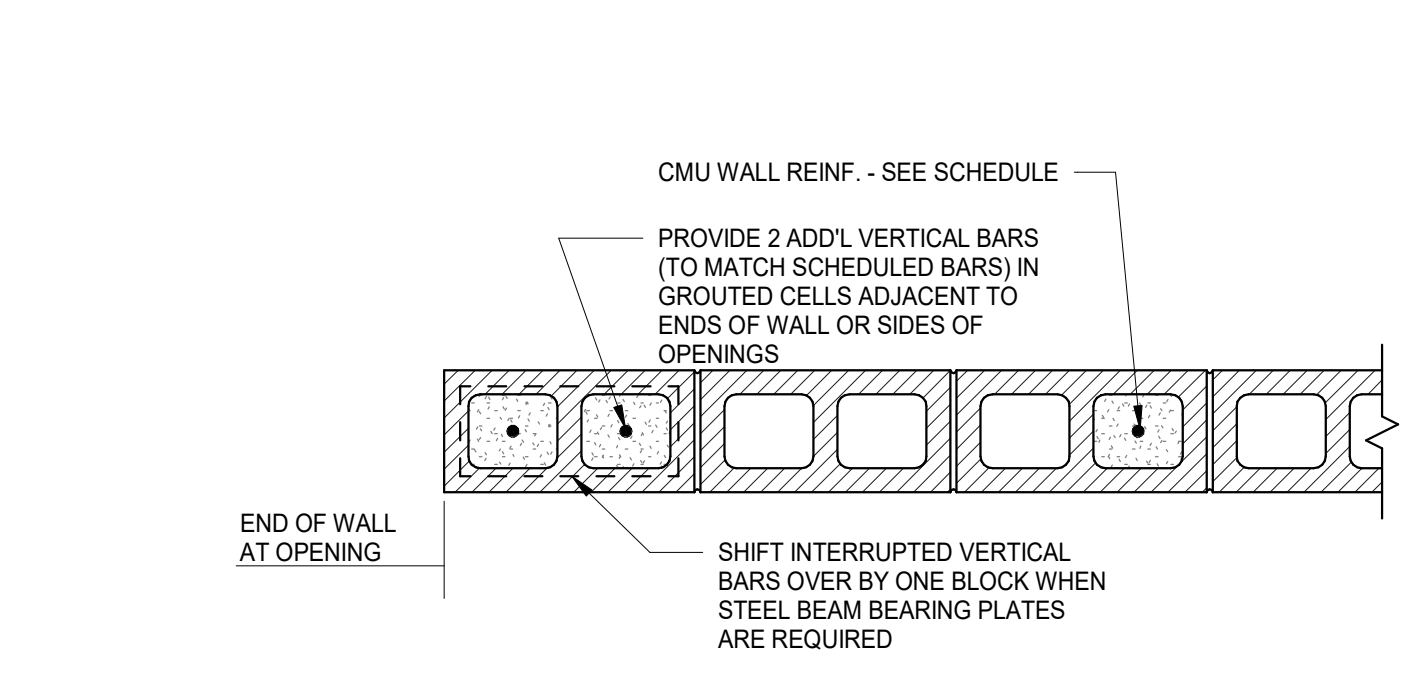
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DOWNERS GROVE, IL 60616

GENERAL NOTES AND MATERIAL ALLOWANCES

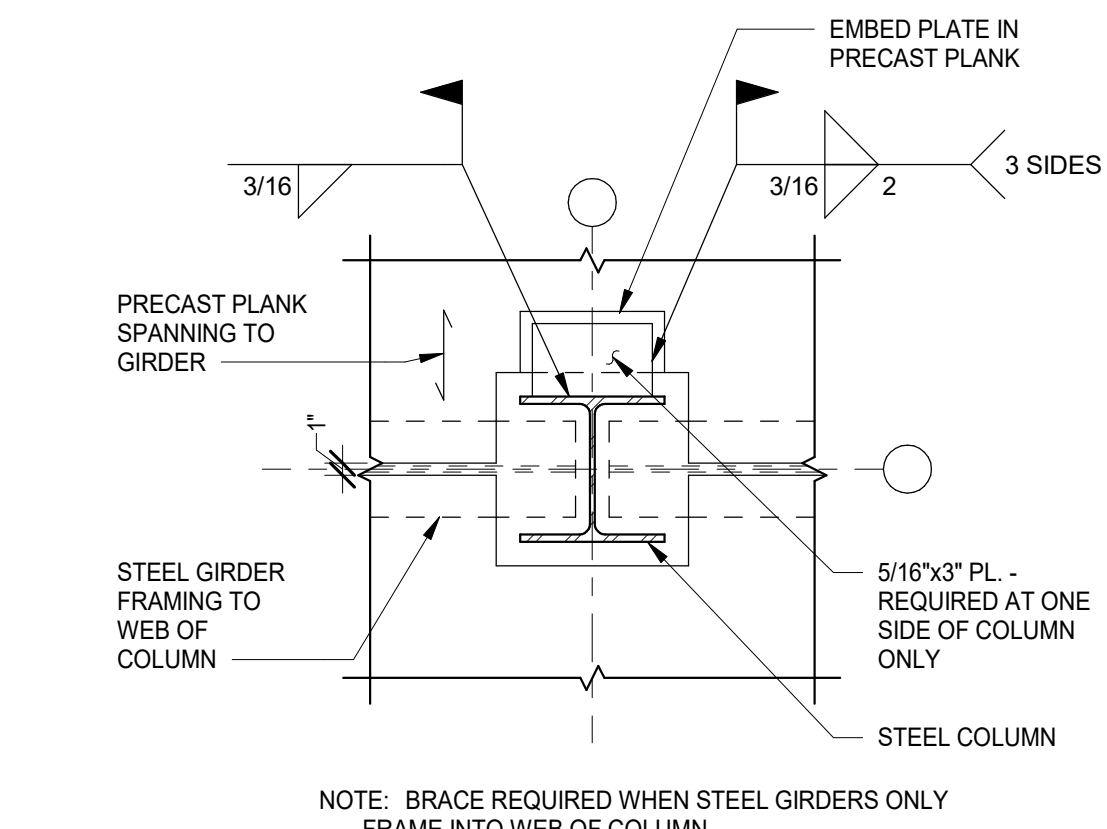
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S0.1B

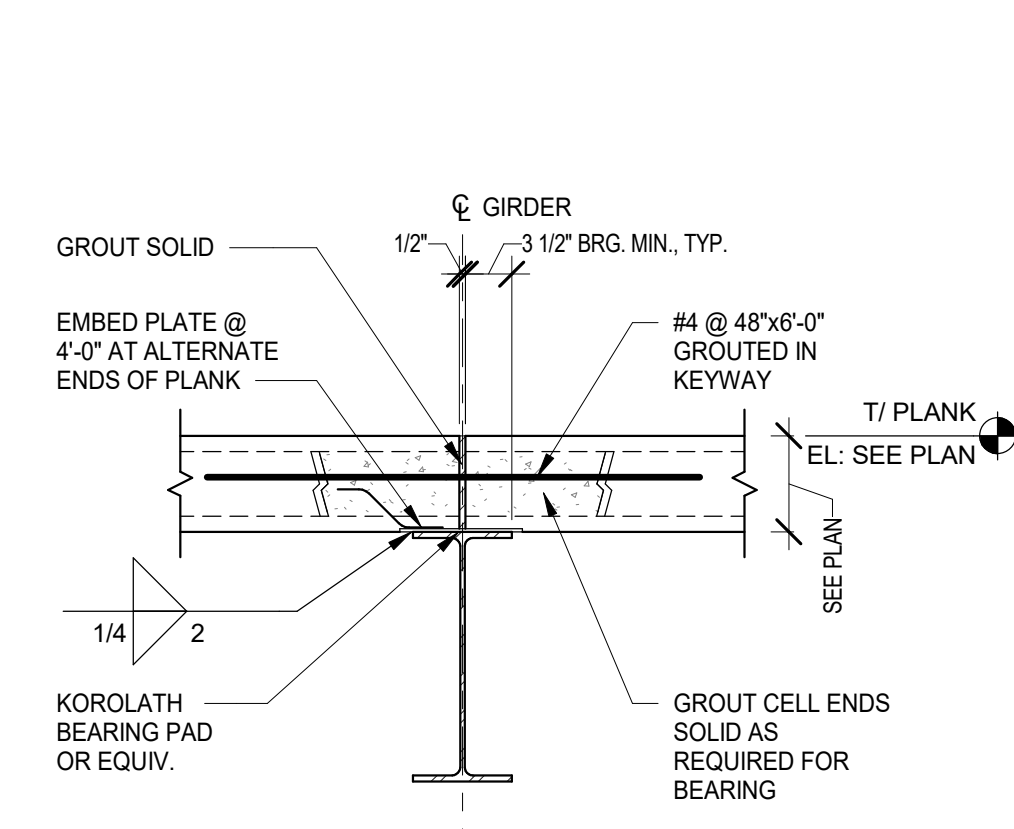
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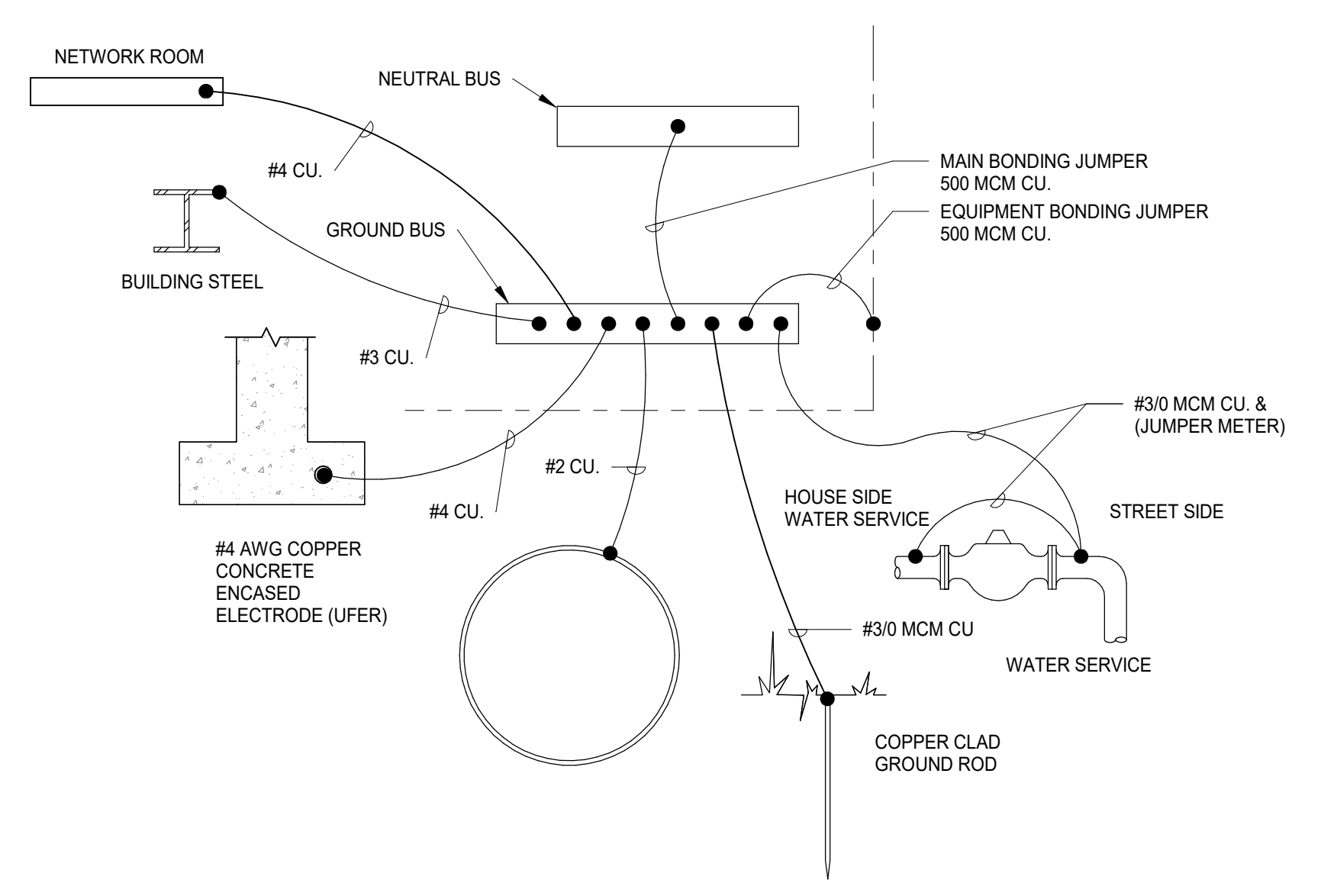
16 TYPICAL CMU WALL END REINFORCEMENT DETAIL
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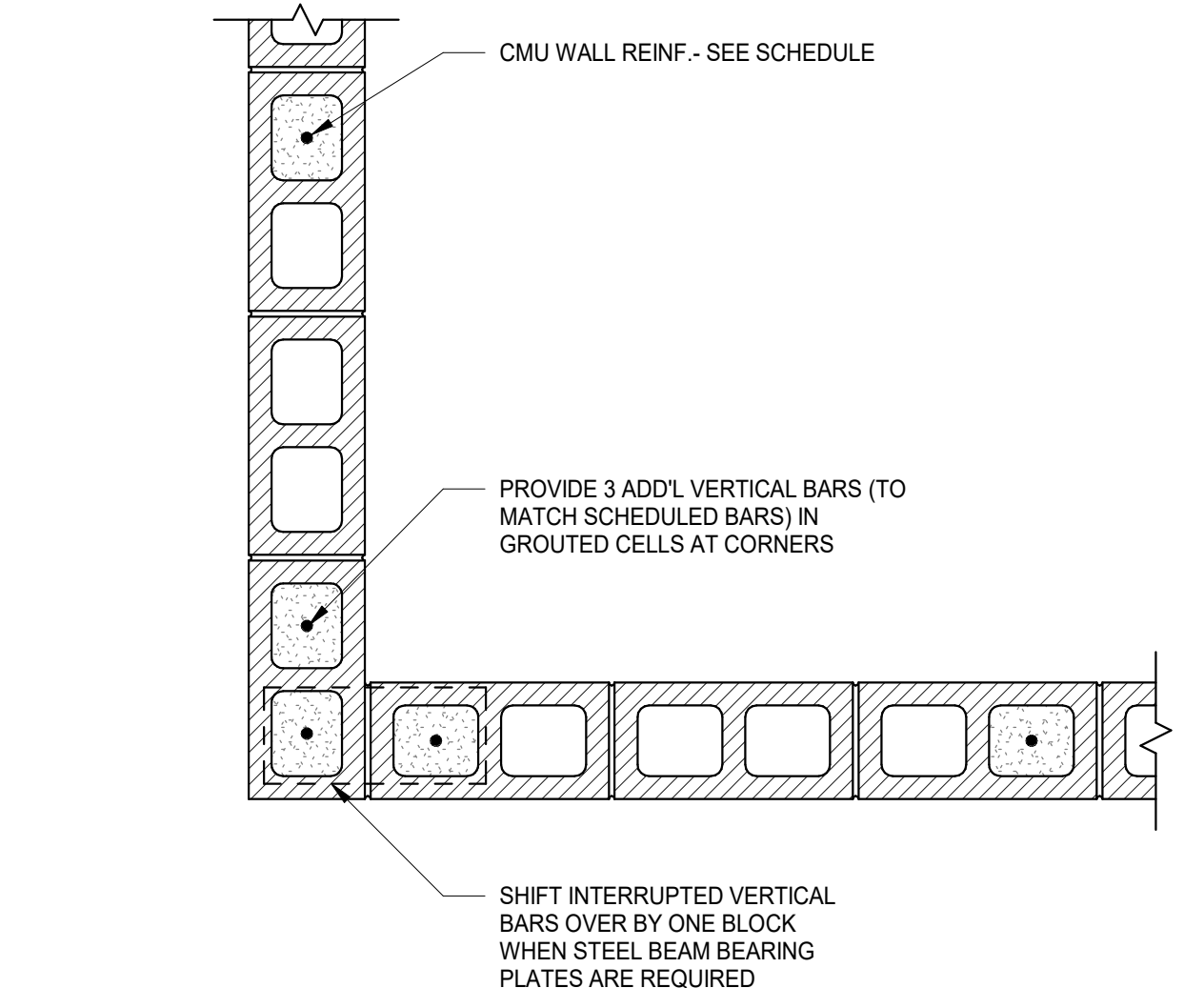
11 TYPICAL COLUMN FLANGE BRACE DETAIL
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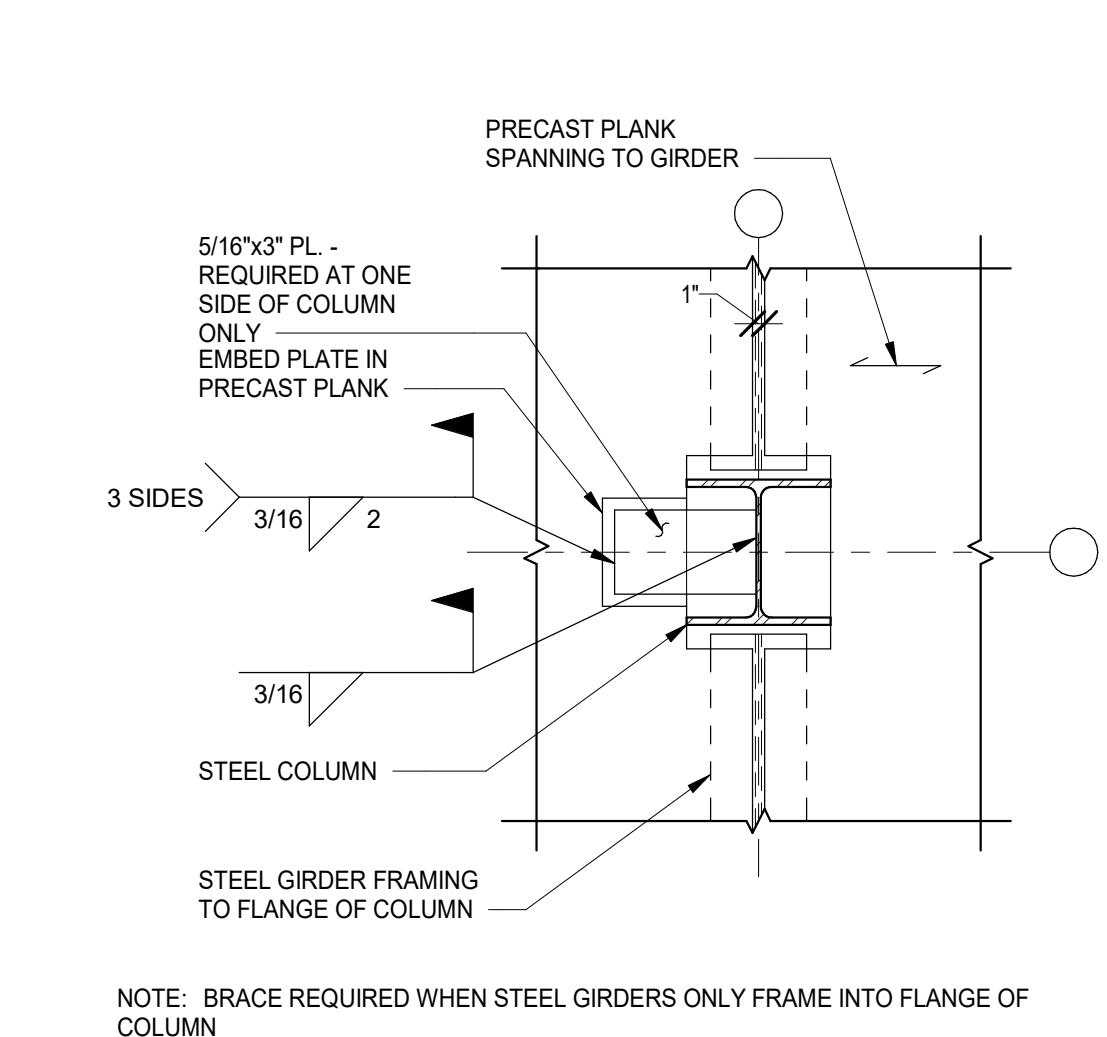
6 TYPICAL PLANK-TO-STEEL GIRDER BEARING DETAIL (TOP FLANGE BEARING)
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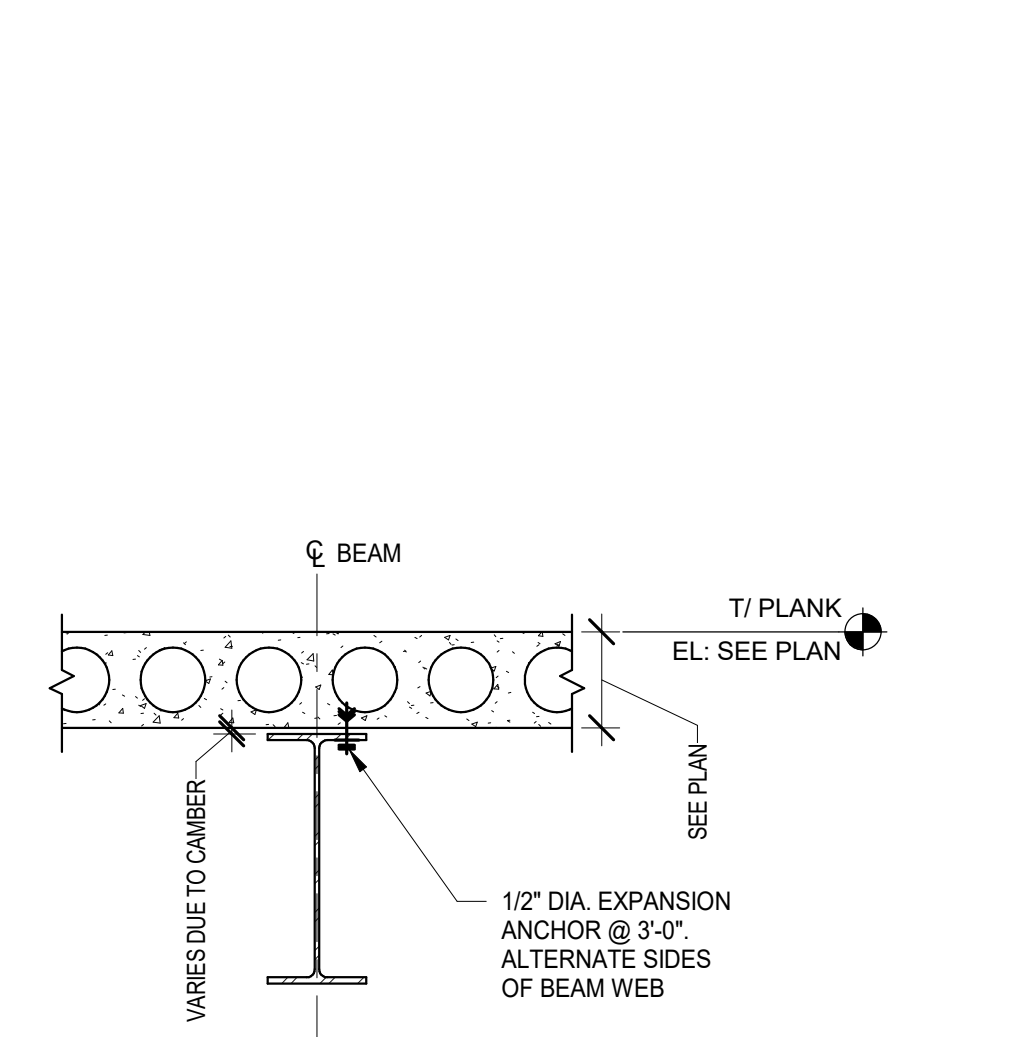
1 ELECTRICAL GROUND DETAIL
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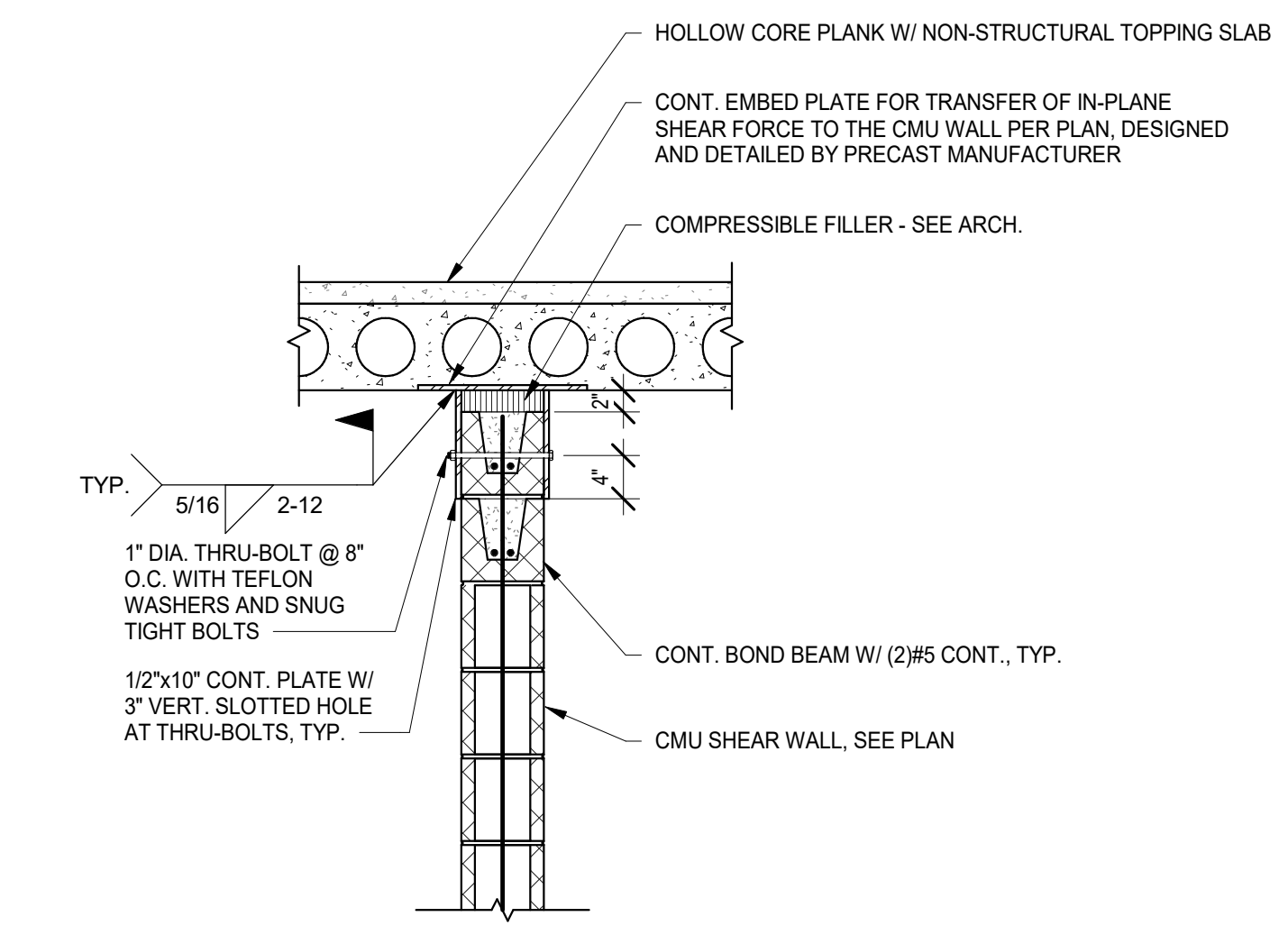
17 TYPICAL CMU WALL CORNER REINFORCEMENT DETAIL
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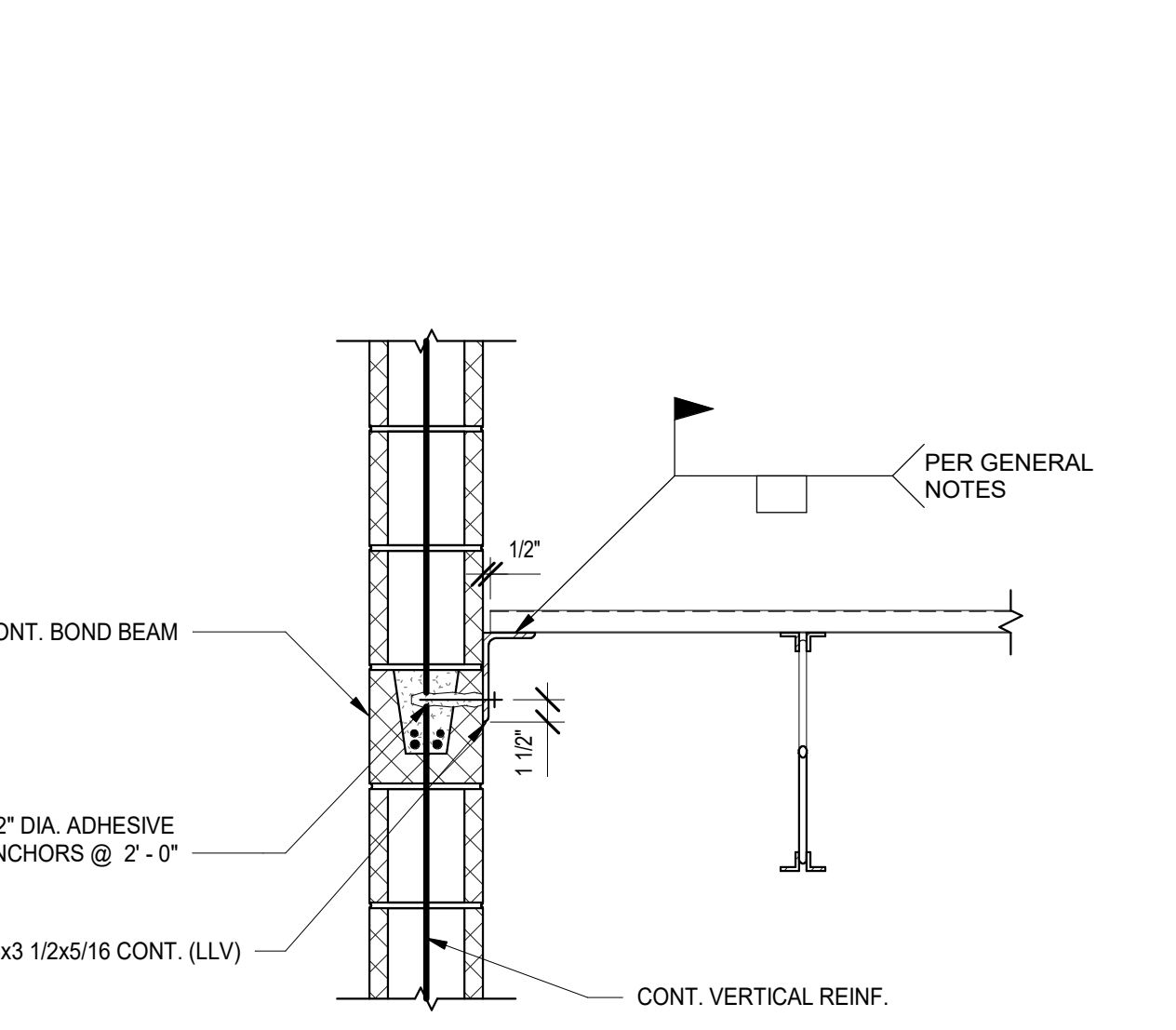
12 TYPICAL COLUMN WEB BRACE DETAIL
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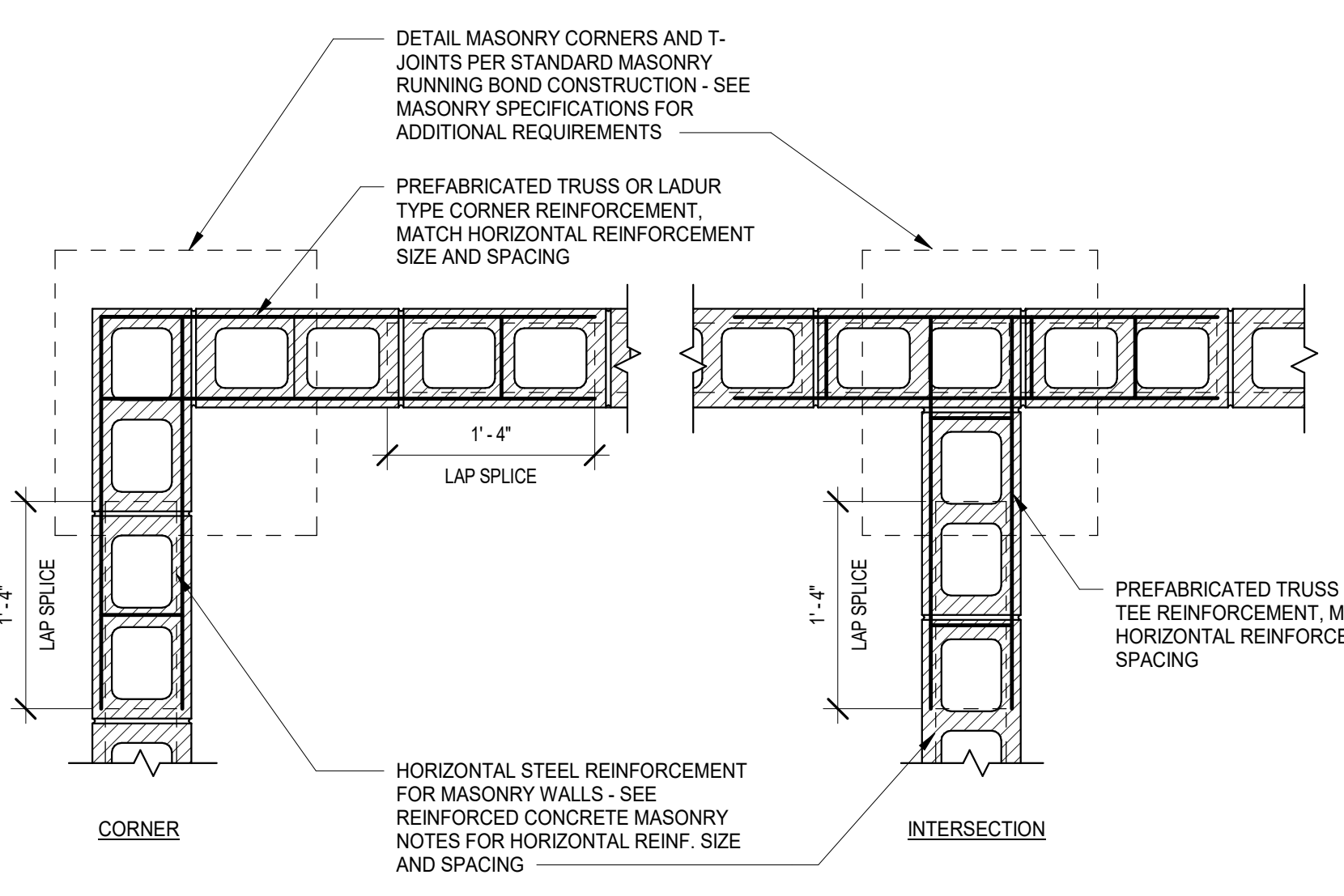
7 TYPICAL PLANK SPANNING PARALLEL TO STEEL BEAM DETAIL
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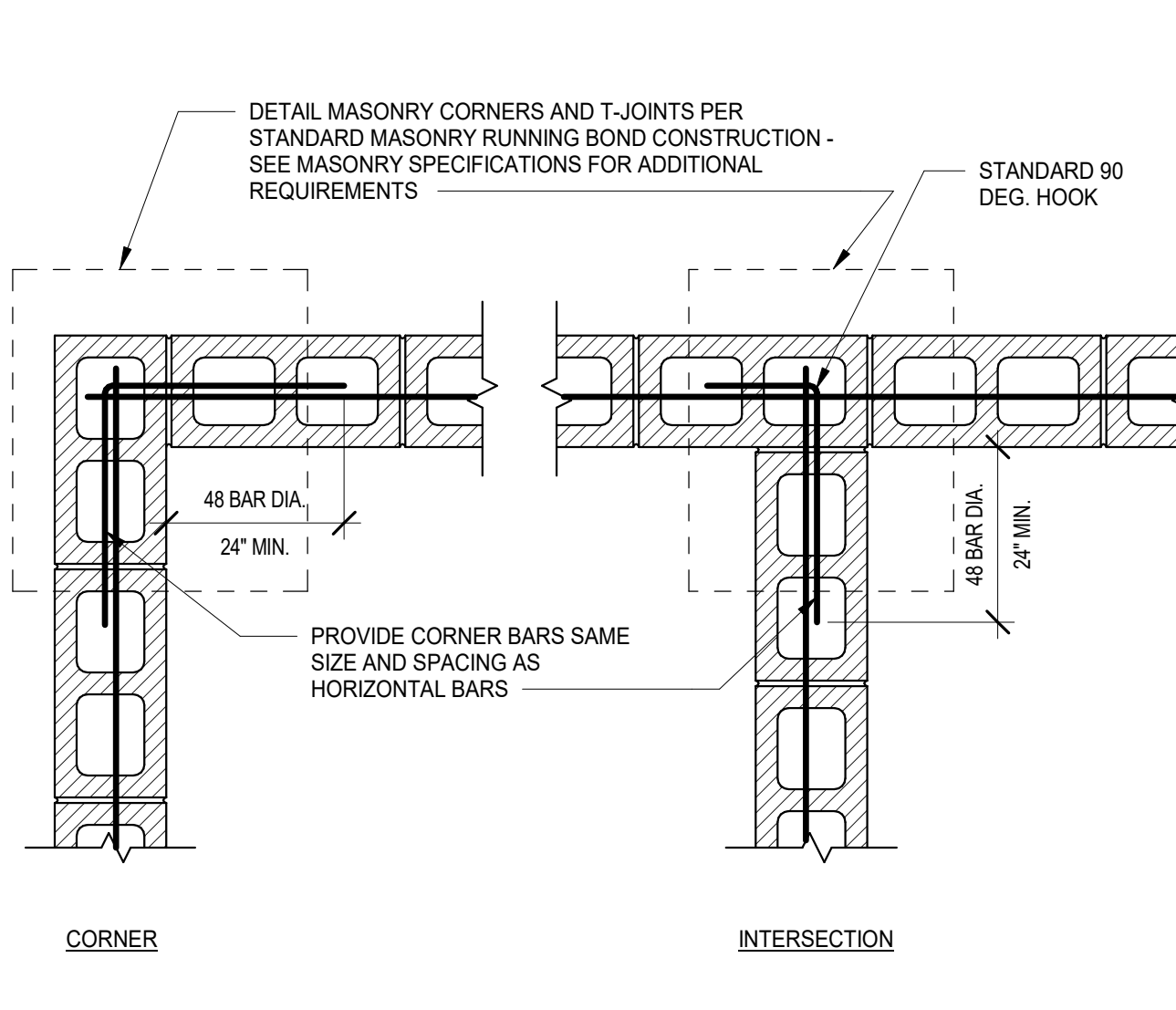
2 TYPICAL PLANK TO CMU SHEAR WALL CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



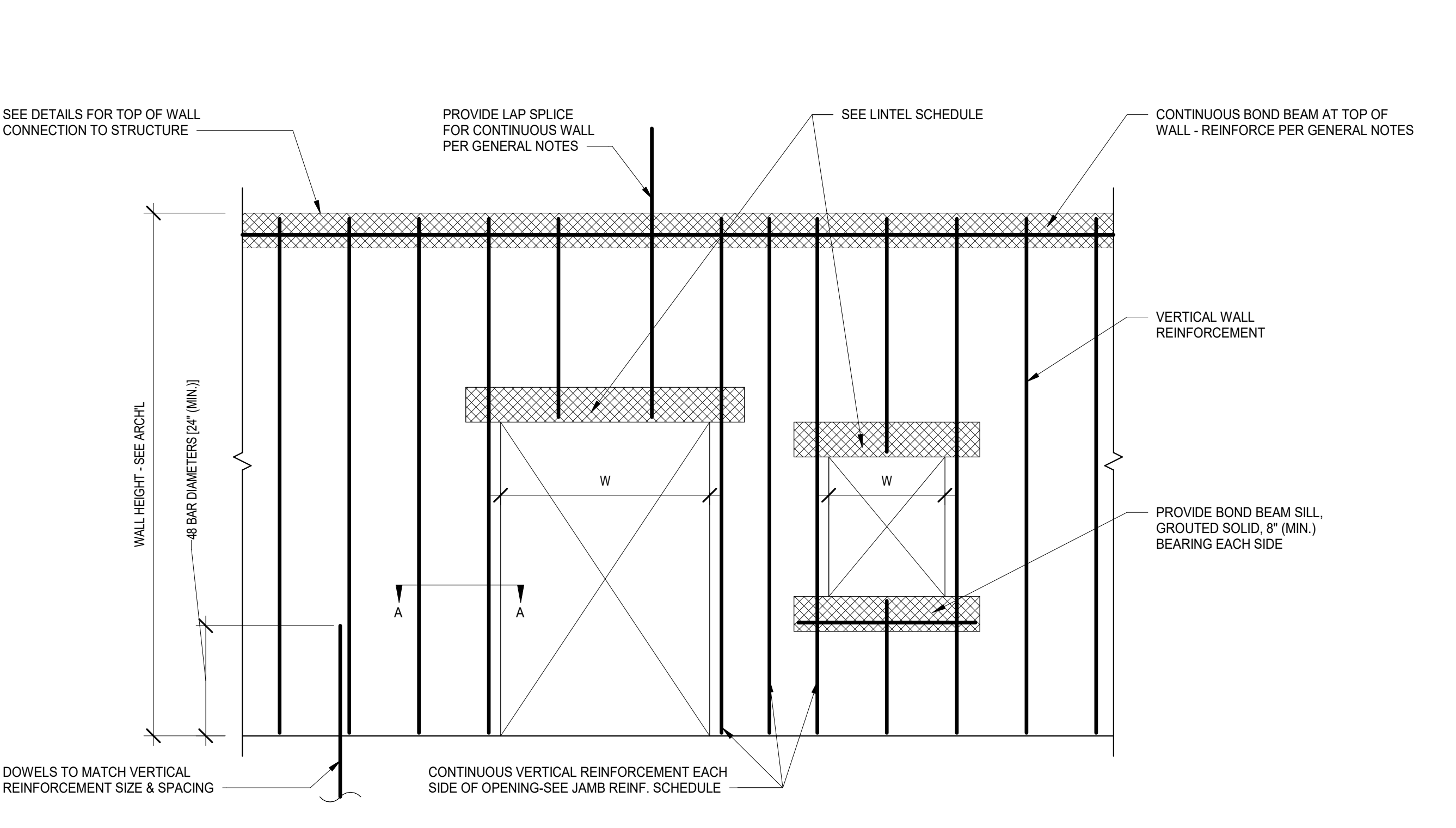
18 TYPICAL ROOF DECK-TO-CMU WALL CONNECTION DETAIL
SCALE: 1" = 1'-0"



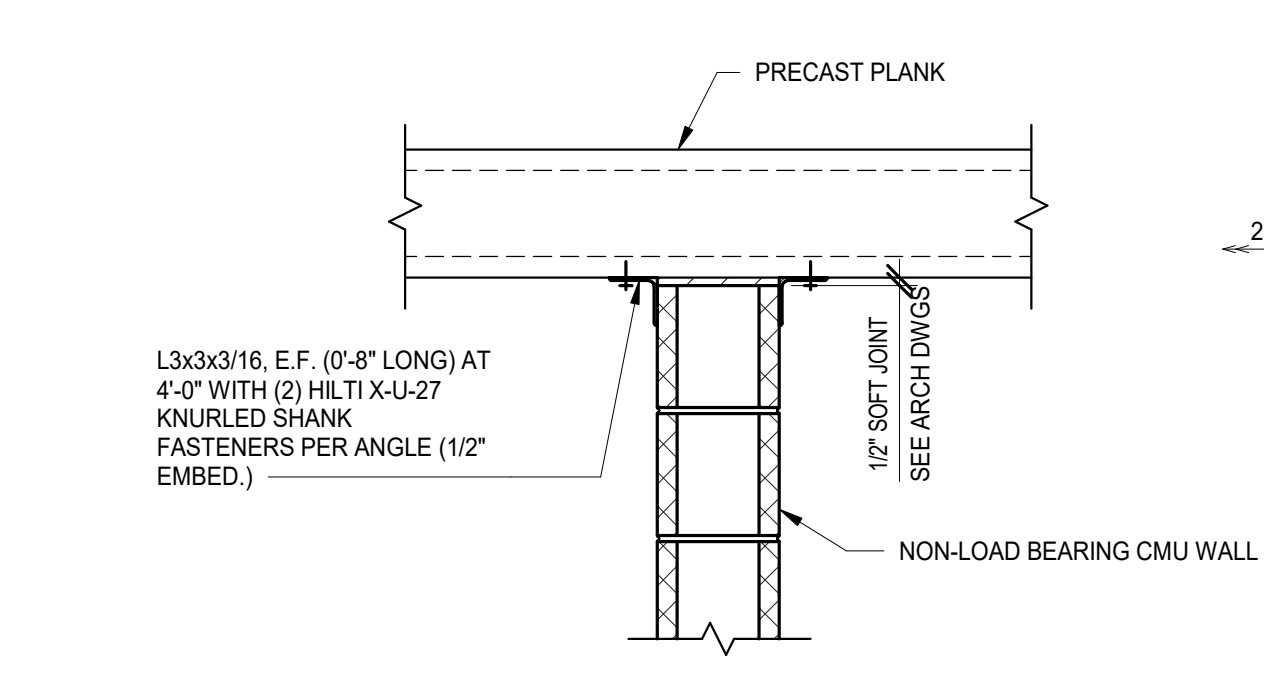
13 TYPICAL CMU WALL HORIZONTAL TRUSS/LADUR TYPE CORNER BAR DETAIL
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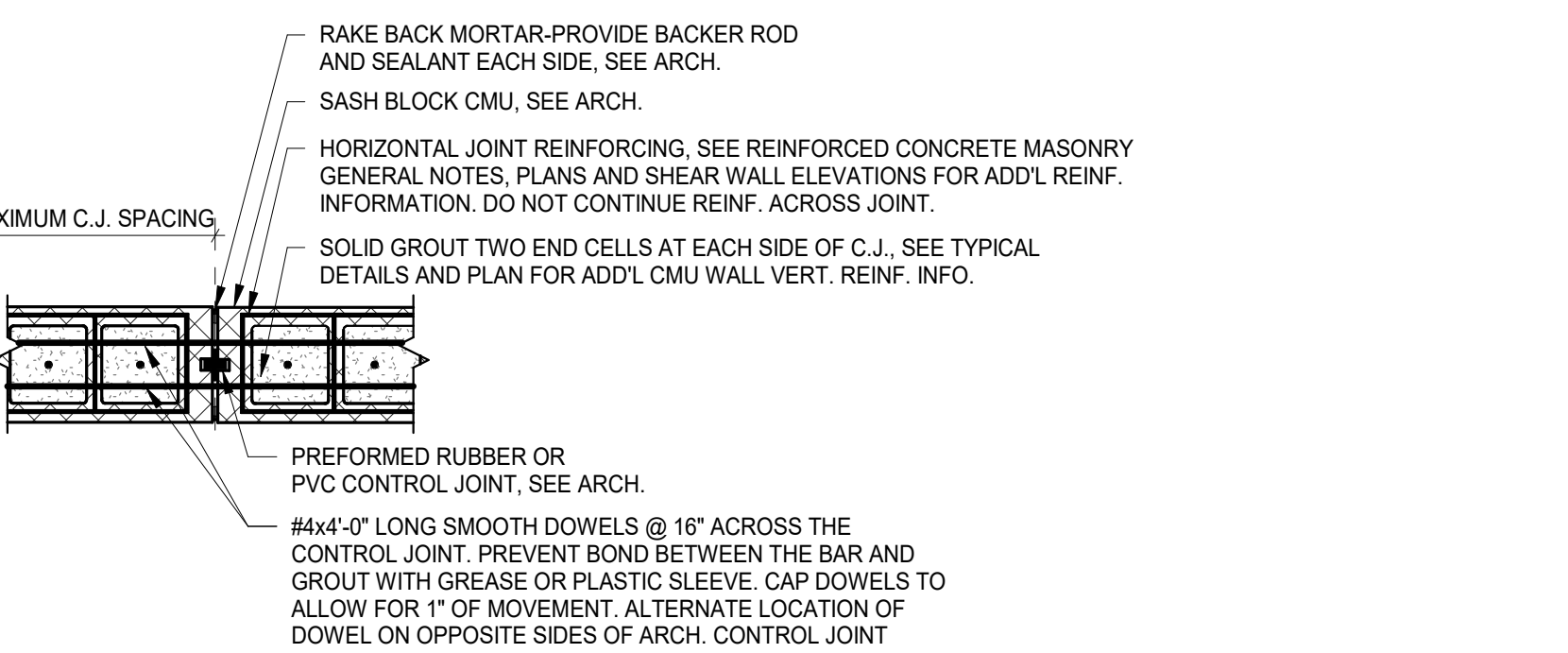
8 TYPICAL CMU WALL HORIZONTAL DEFORMED CORNER BAR DETAIL
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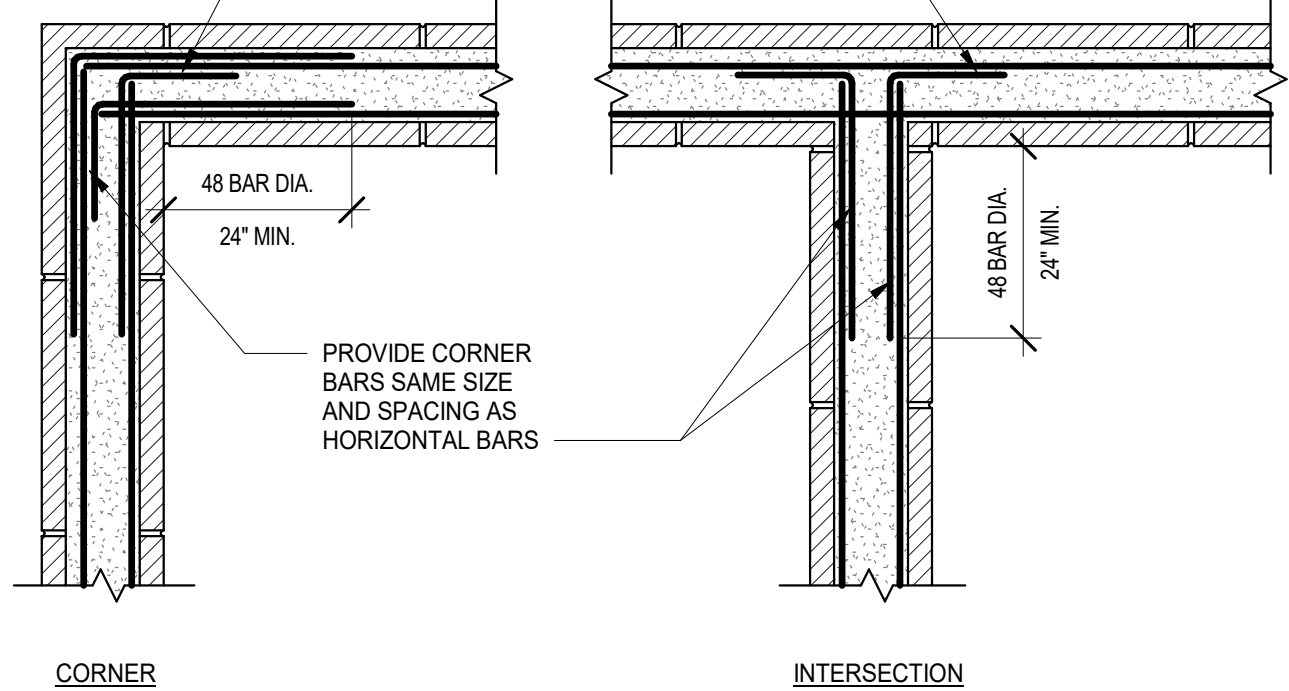
3 TYPICAL CMU WALL REINFORCEMENT DETAIL
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19 TYPICAL CMU LATERAL RESTRAINT DETAIL @ PRECAST PLANKS
N.T.S.

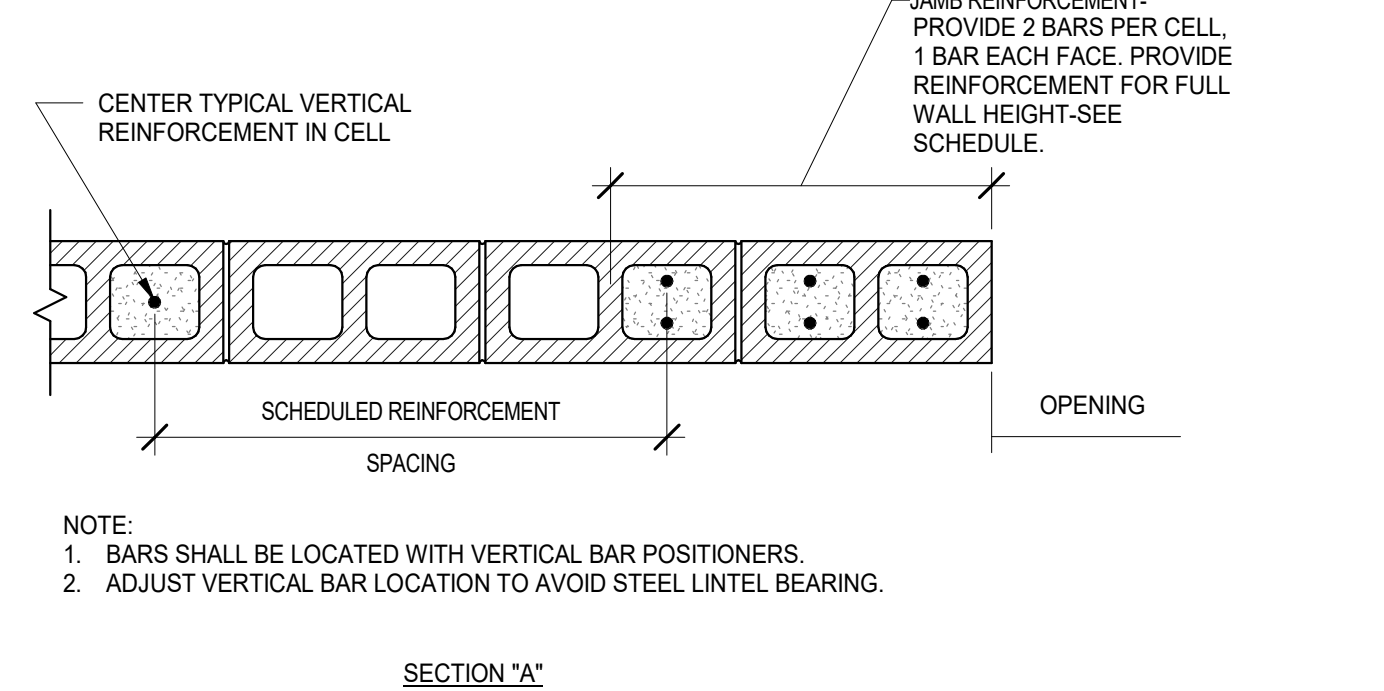


14 TYPICAL CMU WALL VERTICAL CONTROL JOINT DETAIL
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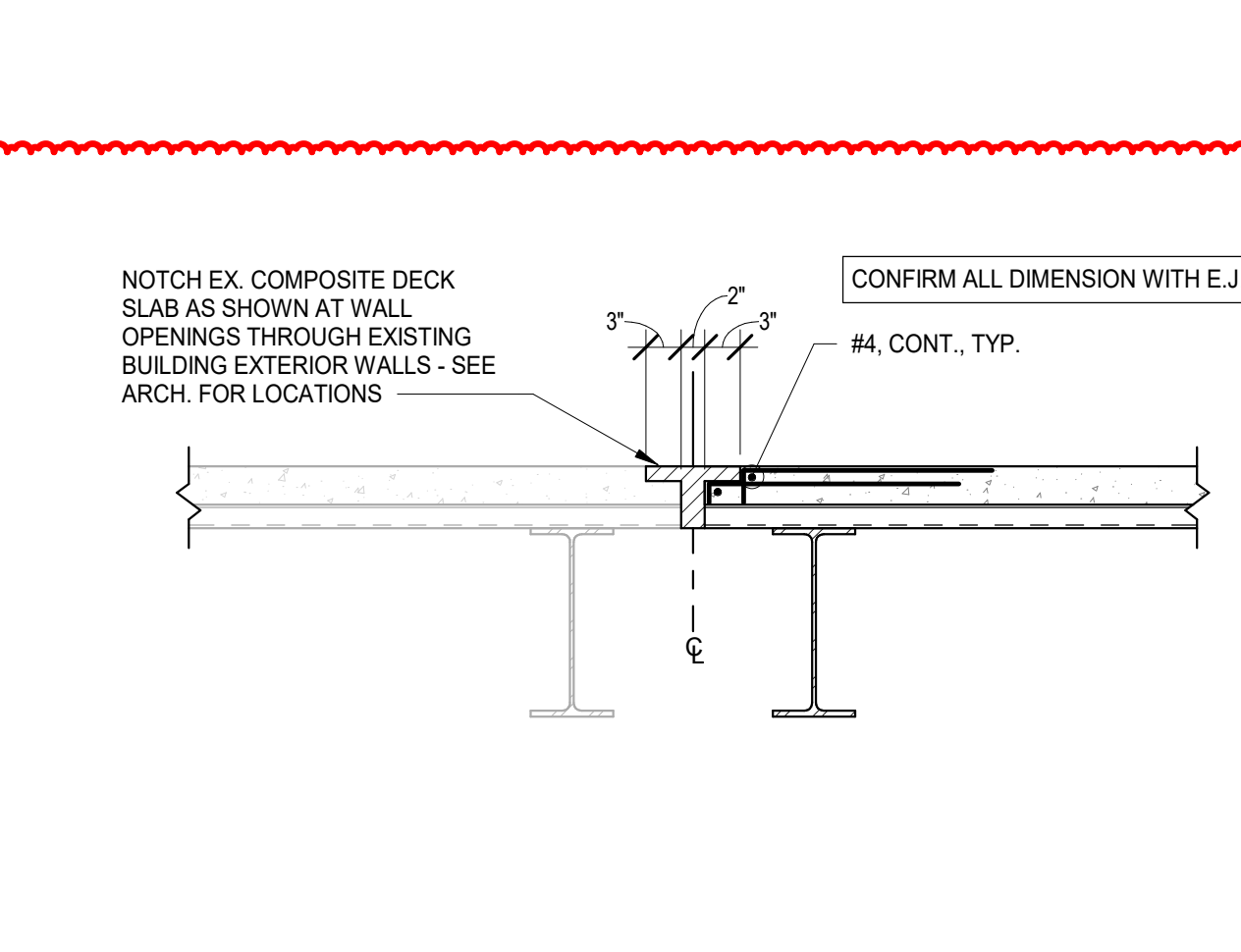


9 TYPICAL BOND BEAM HORIZONTAL CORNER BAR DETAIL
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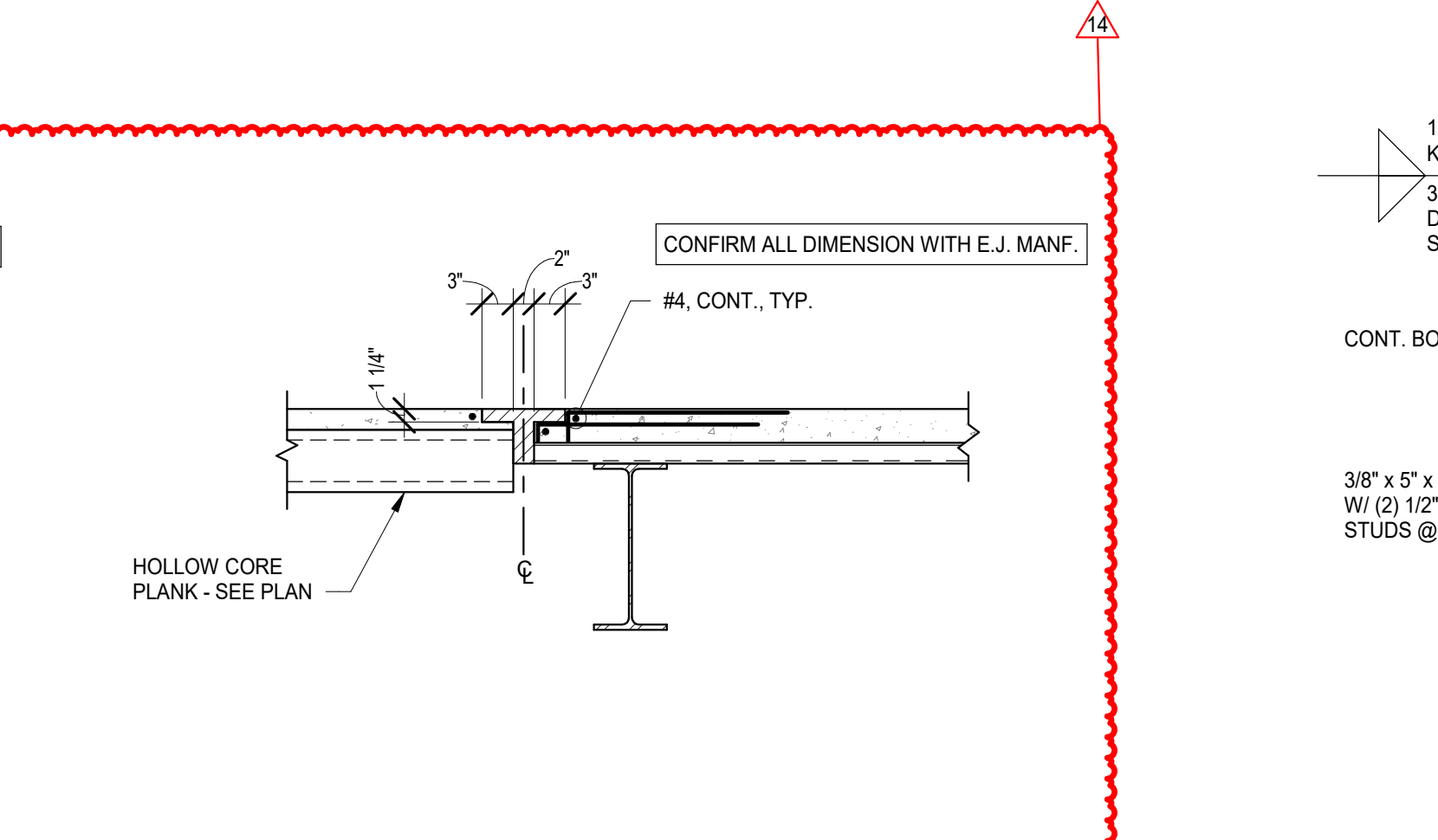
WALL HEIGHT	OPENING SIZE (W)			
	<8'-0"	10'-0"	12'-0"	14'-0"
10'-0"	2-#4	2-#5	2-#5	2-#5
12'-0"	2-#5	2-#6	2-#7	4-#5
14'-0"	4-#5	4-#6	4-#6	4-#7
16'-0"	4-#6	6-#5	6-#6	6-#7
18'-0"	6-#6	6-#7	8-#6	8-#7



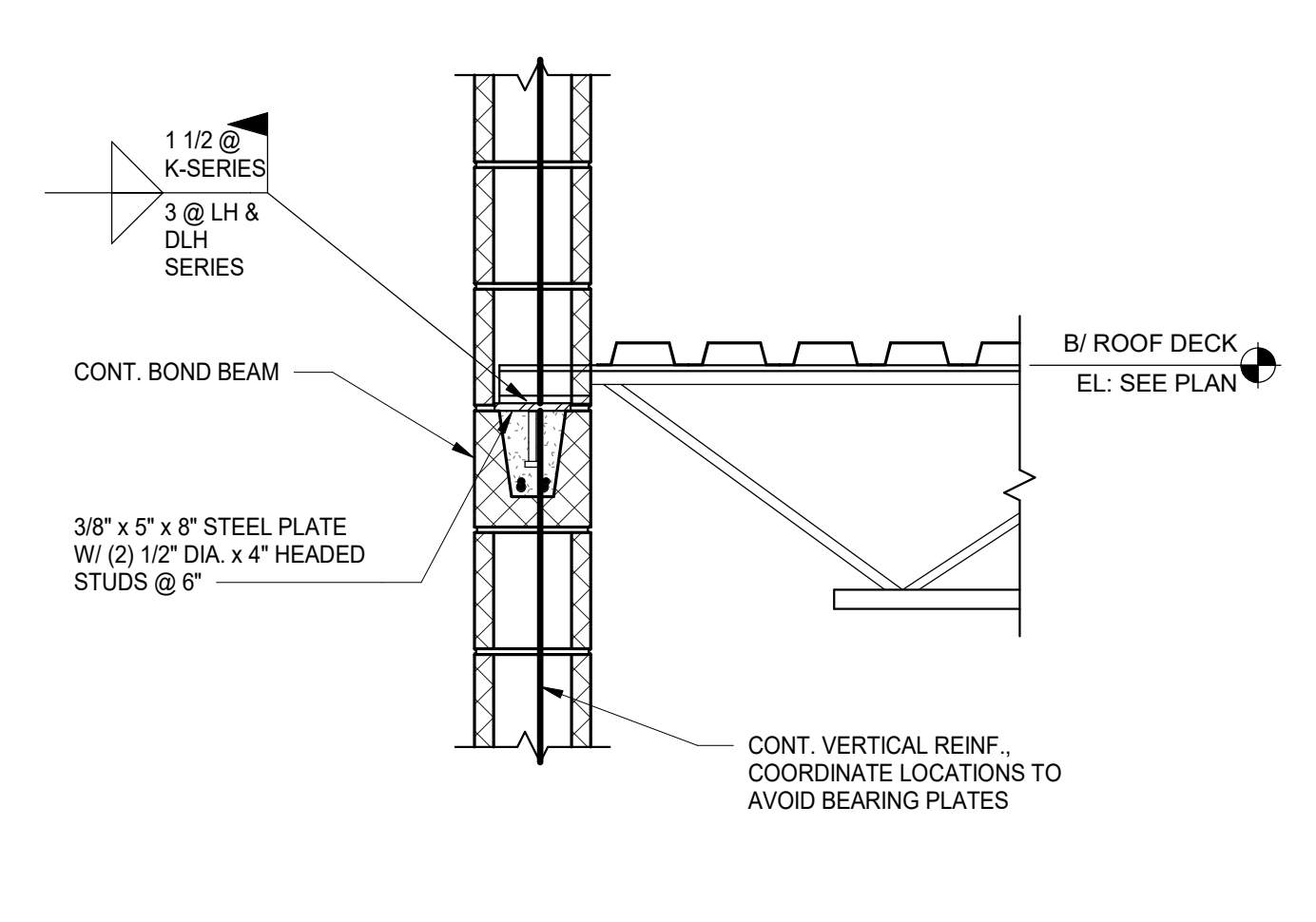
NOTE:
1. BARS SHALL BE LOCATED WITH VERTICAL BAR POSITIONERS.
2. ADJUST VERTICAL BAR LOCATION TO AVOID STEEL Lintel BEARING.



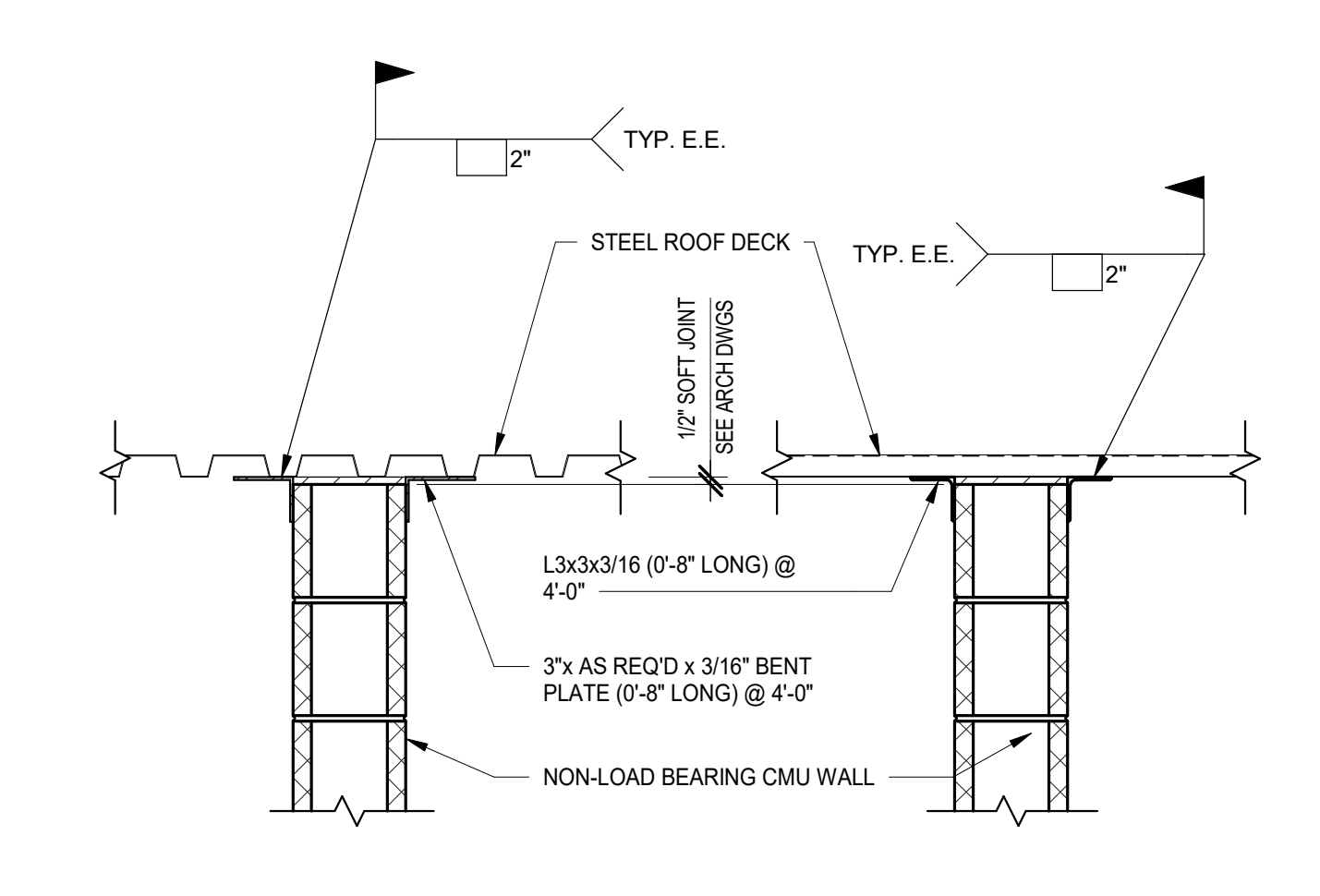
20 TYPICAL EXPANSION JOINT DETAIL
N.T.S.



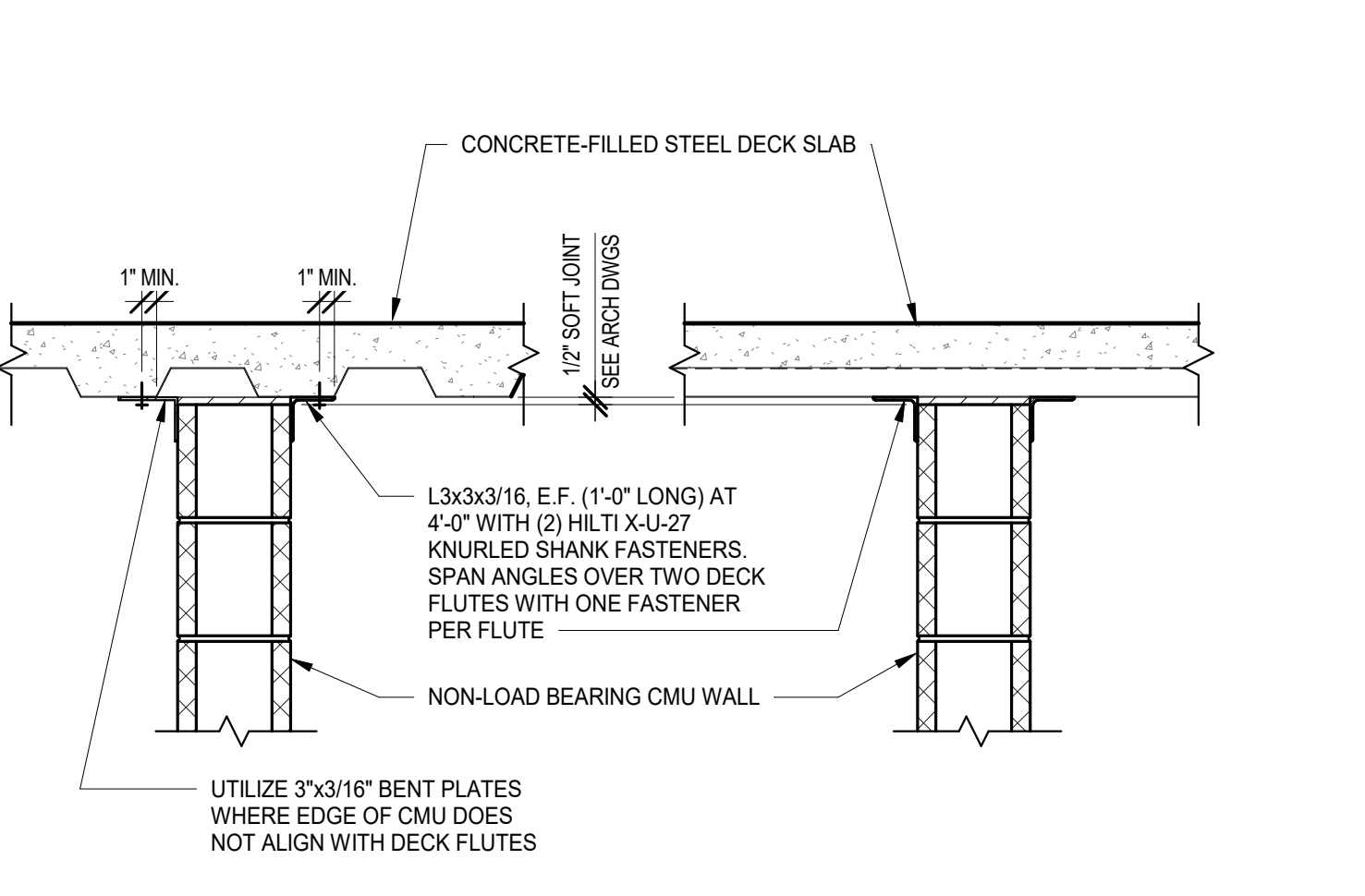
15 TYPICAL EXPANSION JOINT DETAIL
N.T.S.



10 TYPICAL ROOF JOIST-TO-CMU WALL BEARING DETAIL
SCALE: 1" = 1'-0"



5 TYPICAL CMU LATERAL RESTRAINT DETAIL @ STEEL ROOF DECK
N.T.S.



4 TYPICAL CMU LATERAL RESTRAINT DETAIL @ STEEL DECK SLABS
N.T.S.

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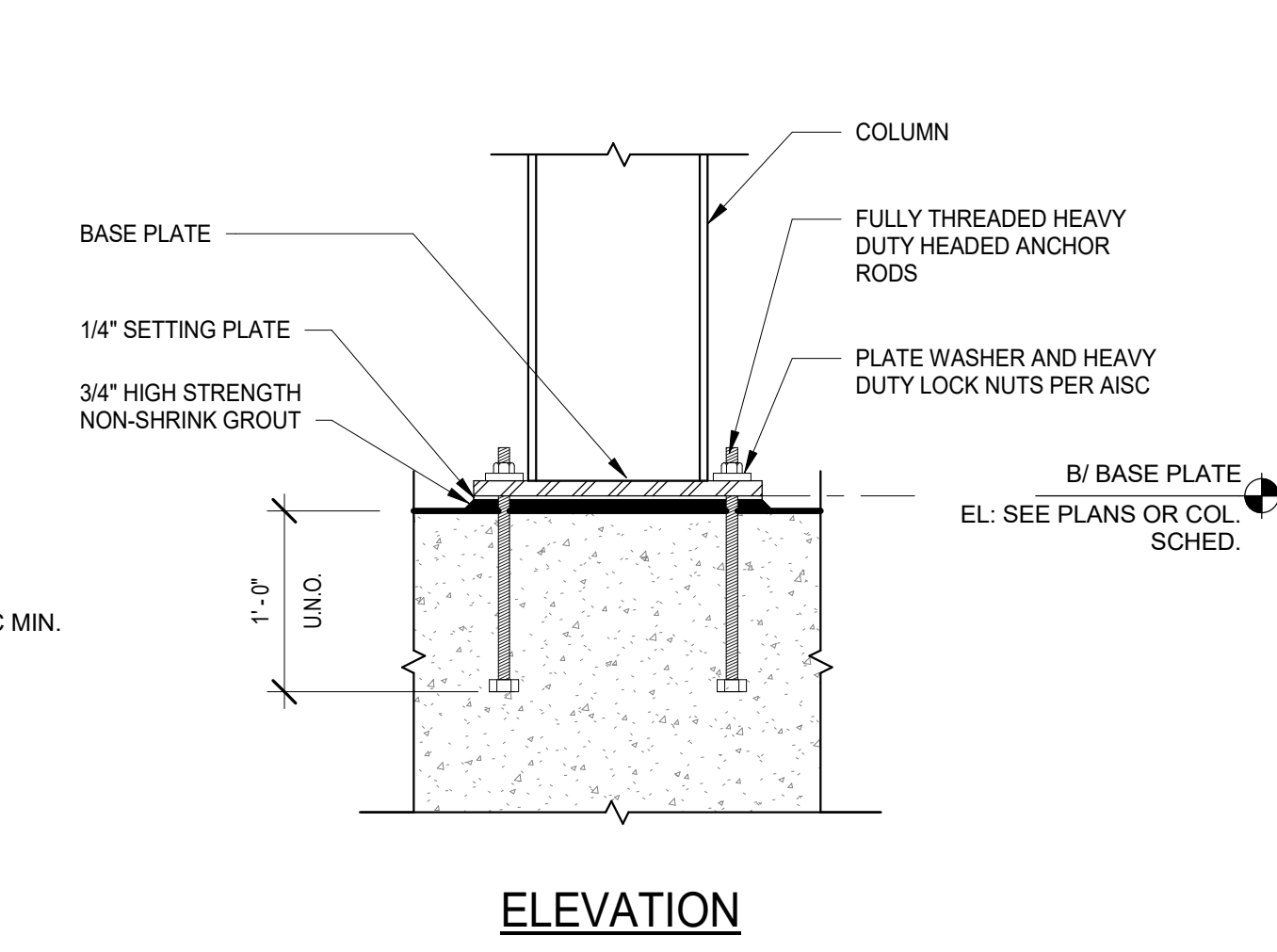
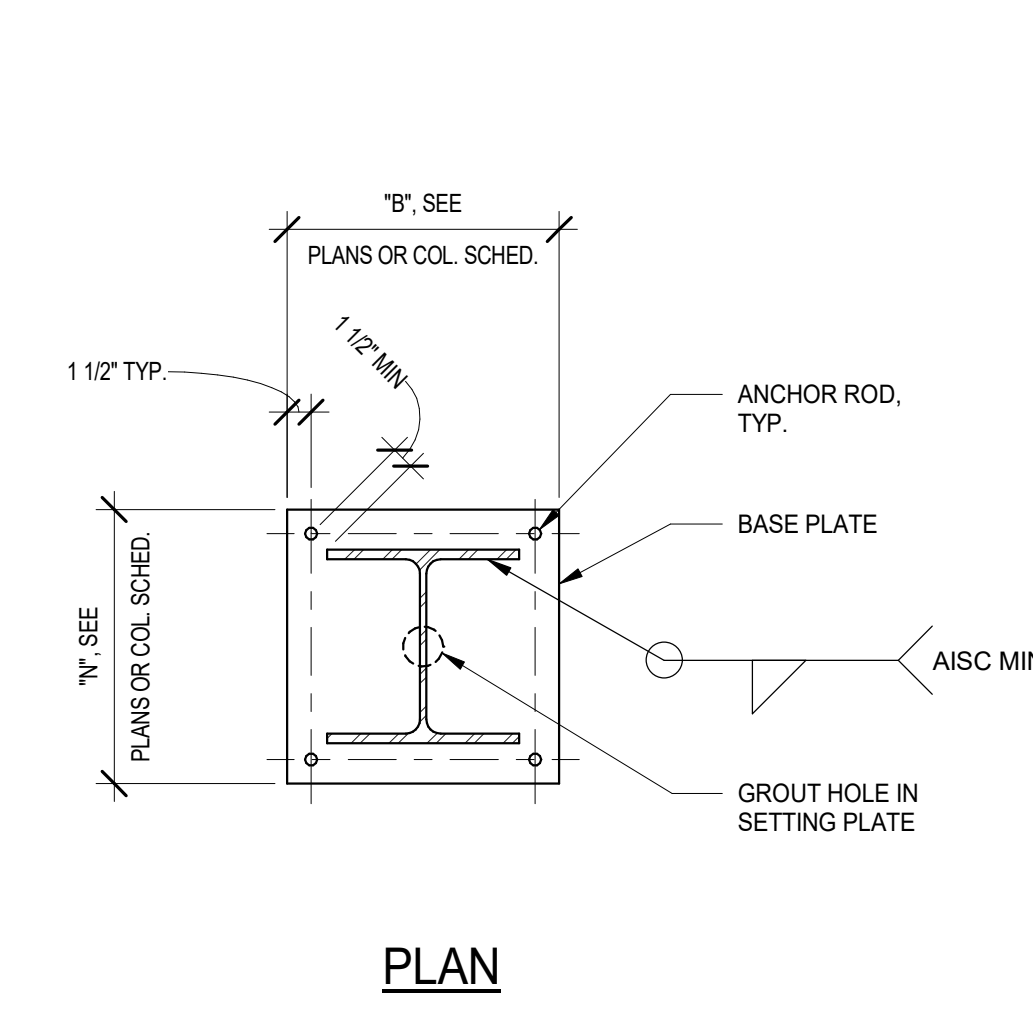
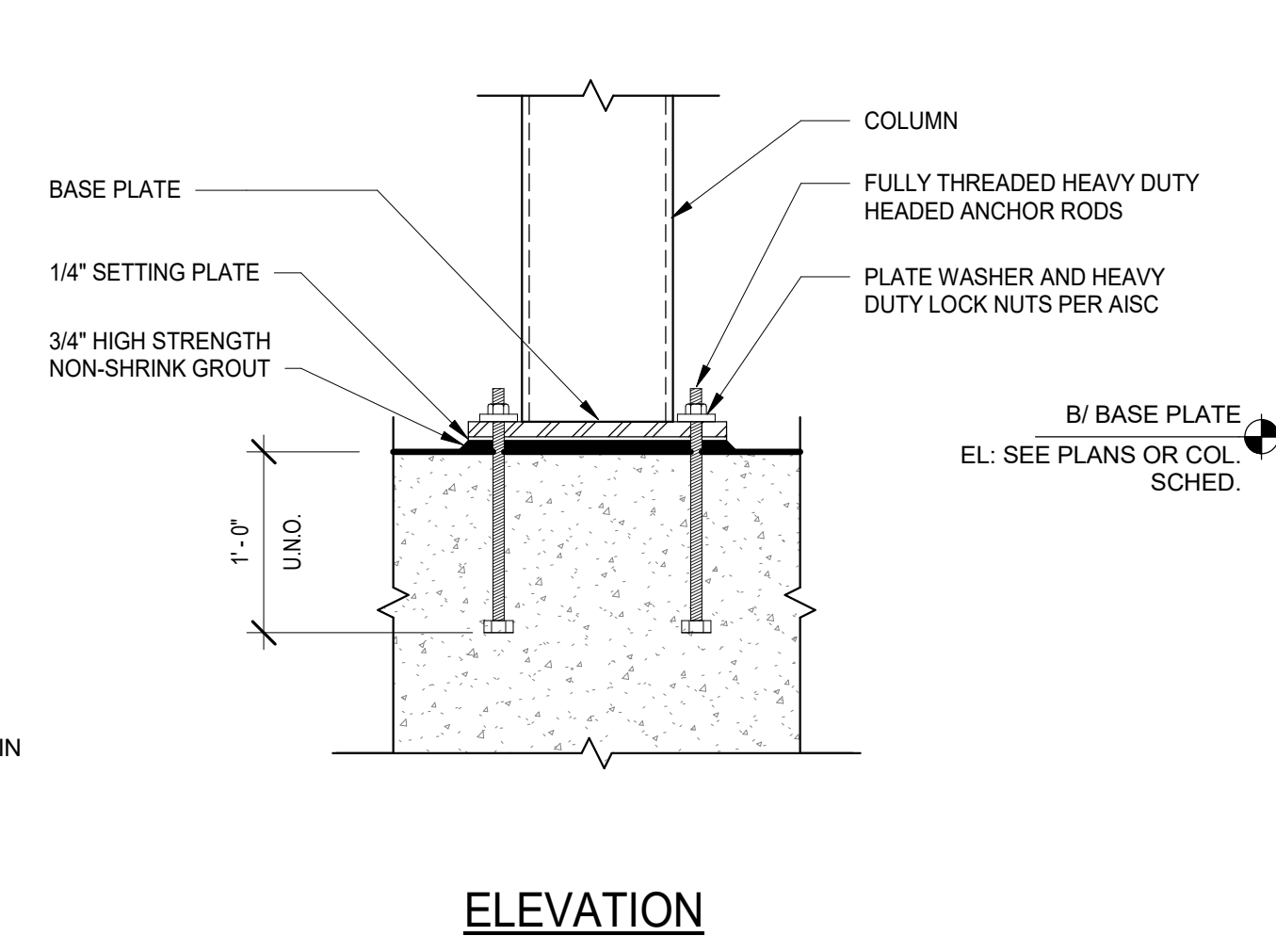
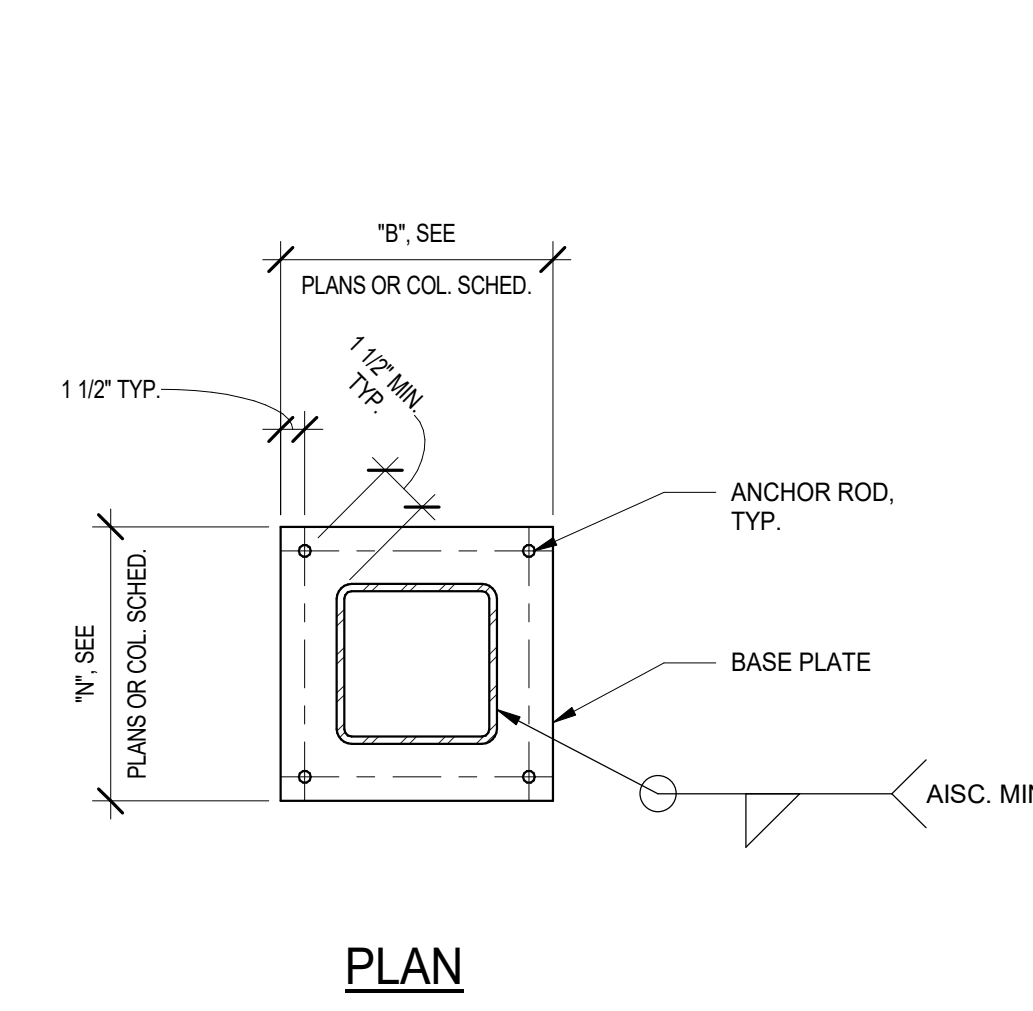
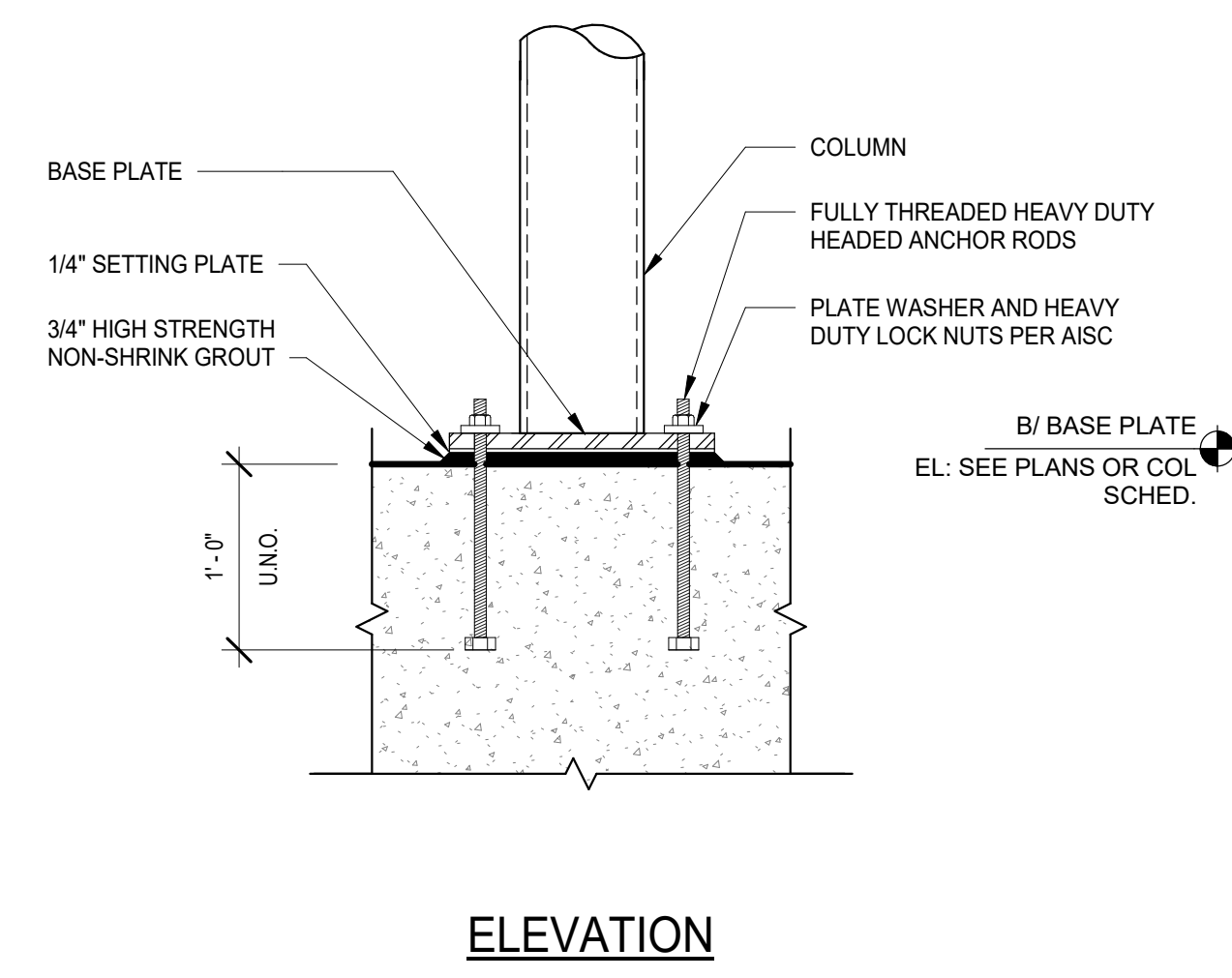
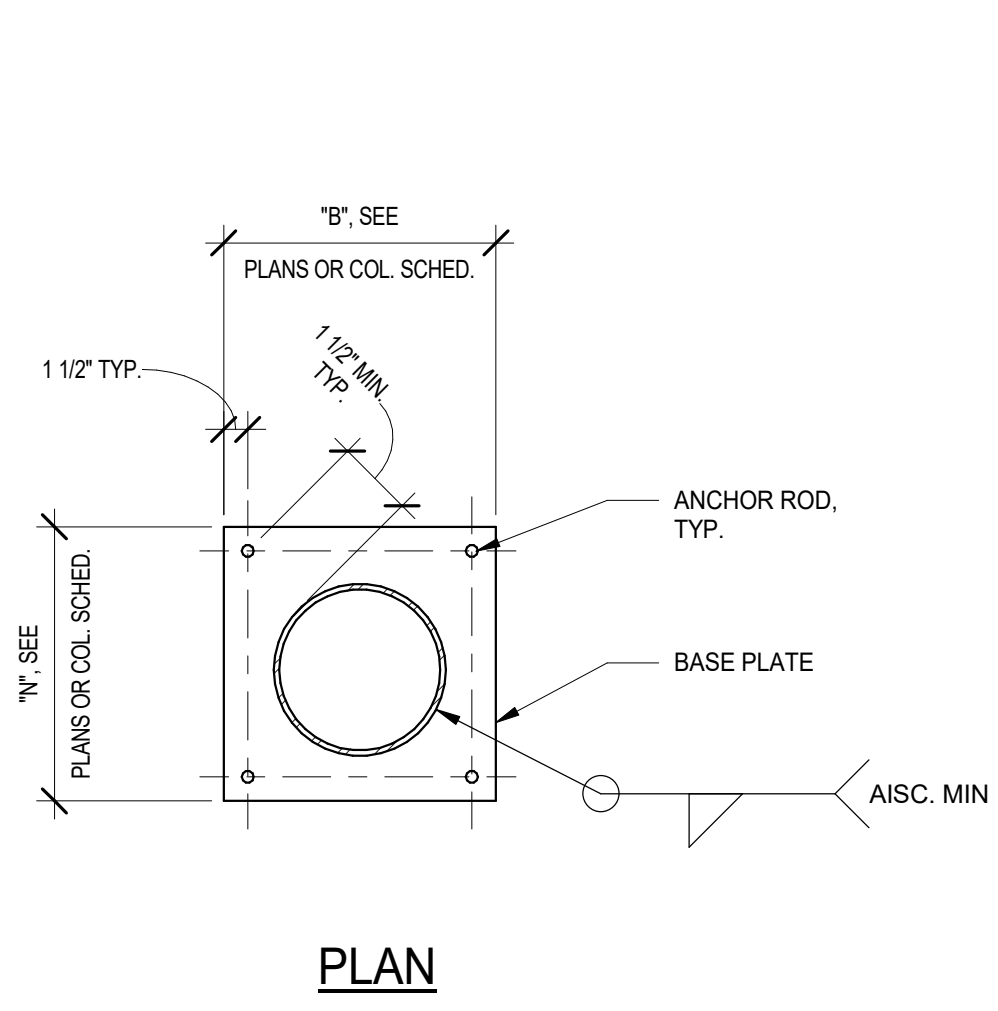
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	ISSUED FOR BID - BID GROUP 6	05.10.2019
	ISSUED FOR 75% CD - PHASE B	05.10.2019
	ISSUED FOR 50% CONSTRUCTION DOCUMENTS - PHASE B	04.12.2019
	ISSUED FOR DESIGN DEVELOPMENT - PHASE B	03.11.2019

MFP IMPLEMENTATION - SOUTH

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TYPICAL SECTIONS AND DETAILS

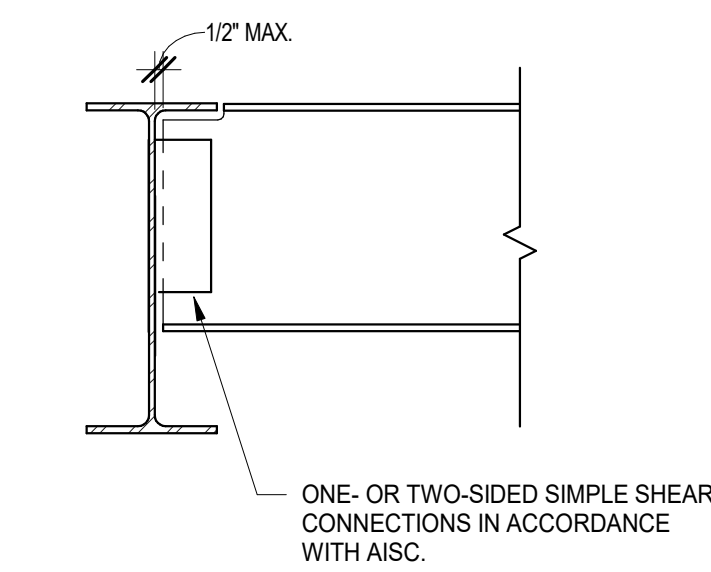
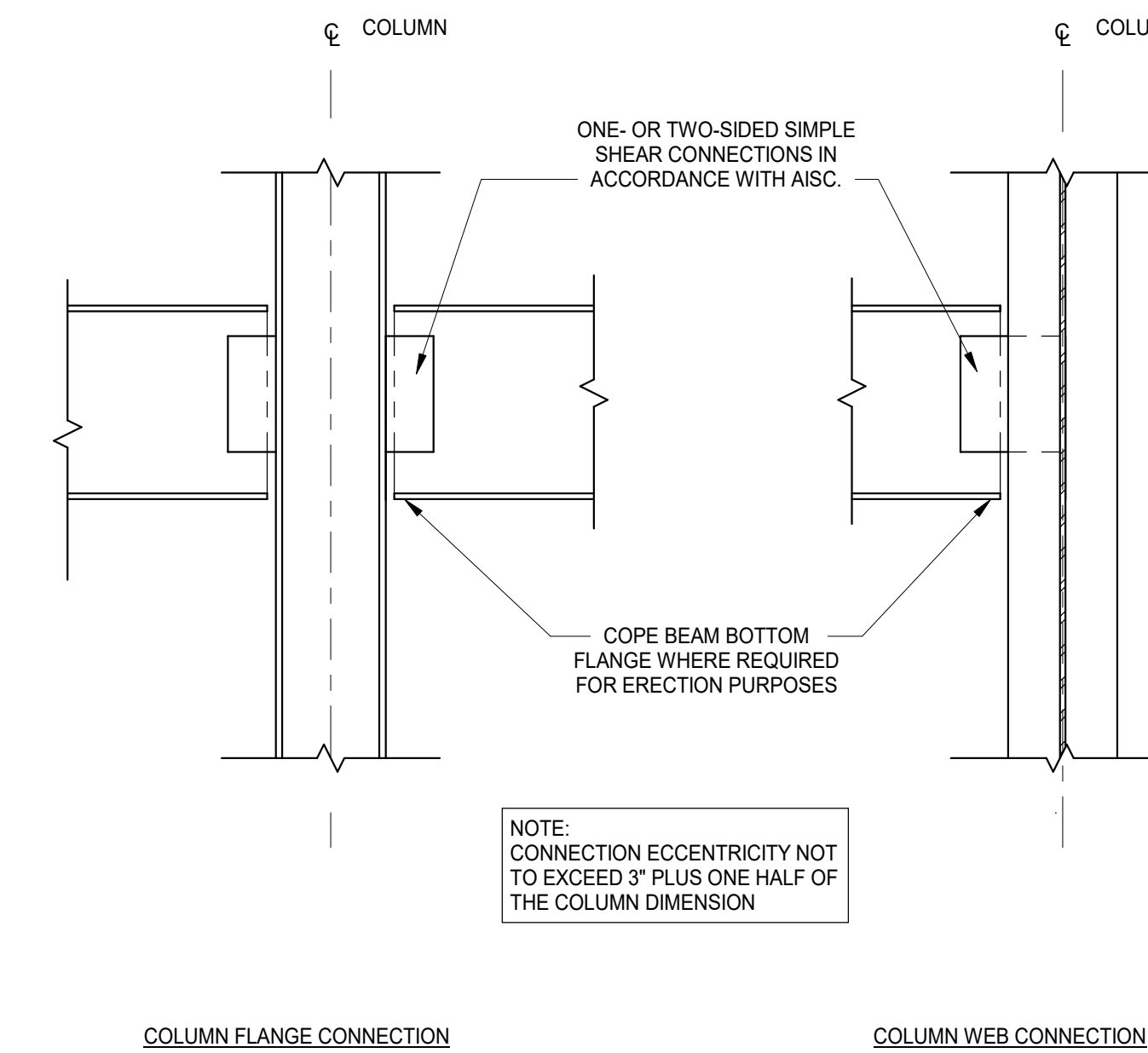
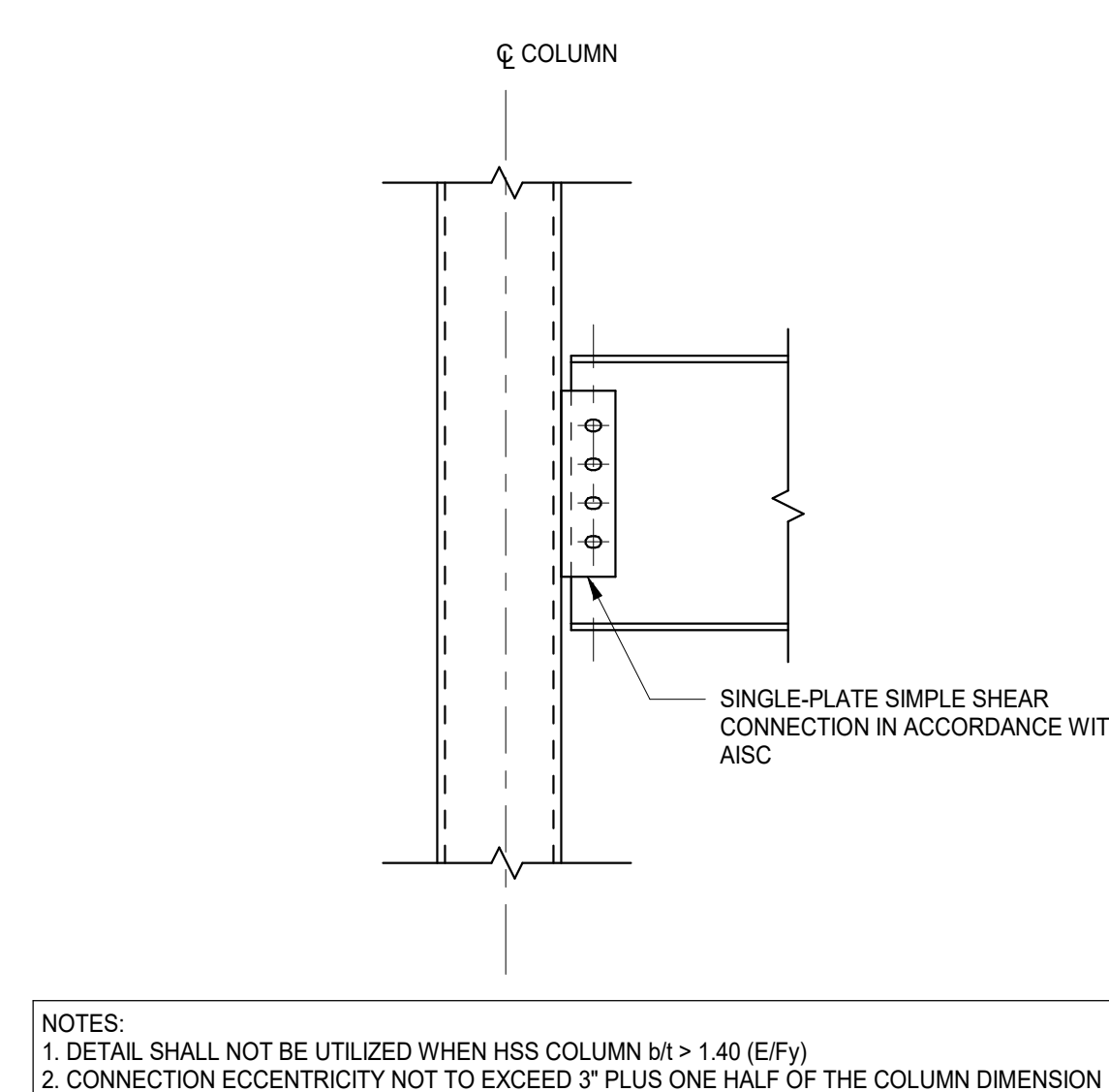
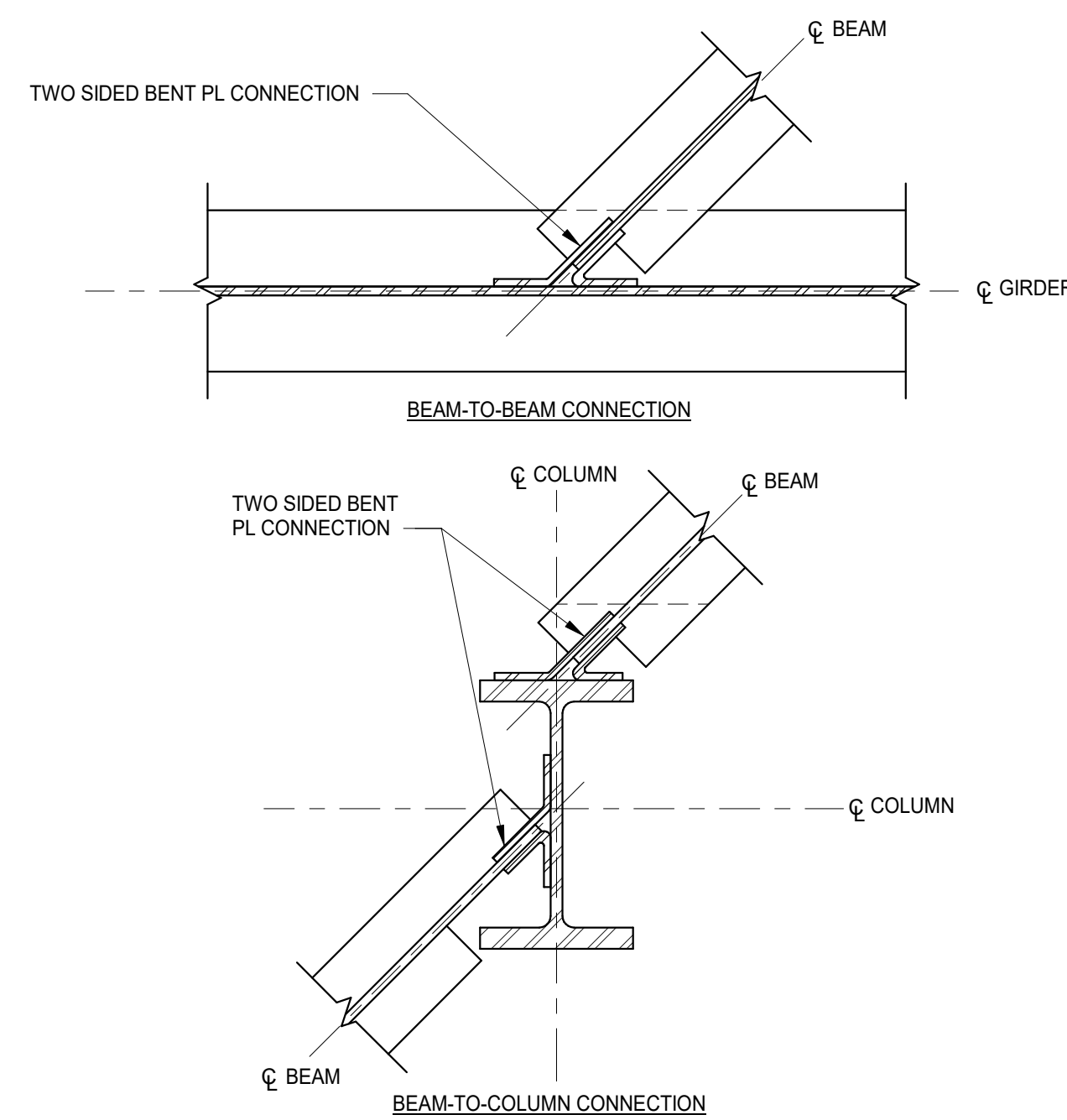
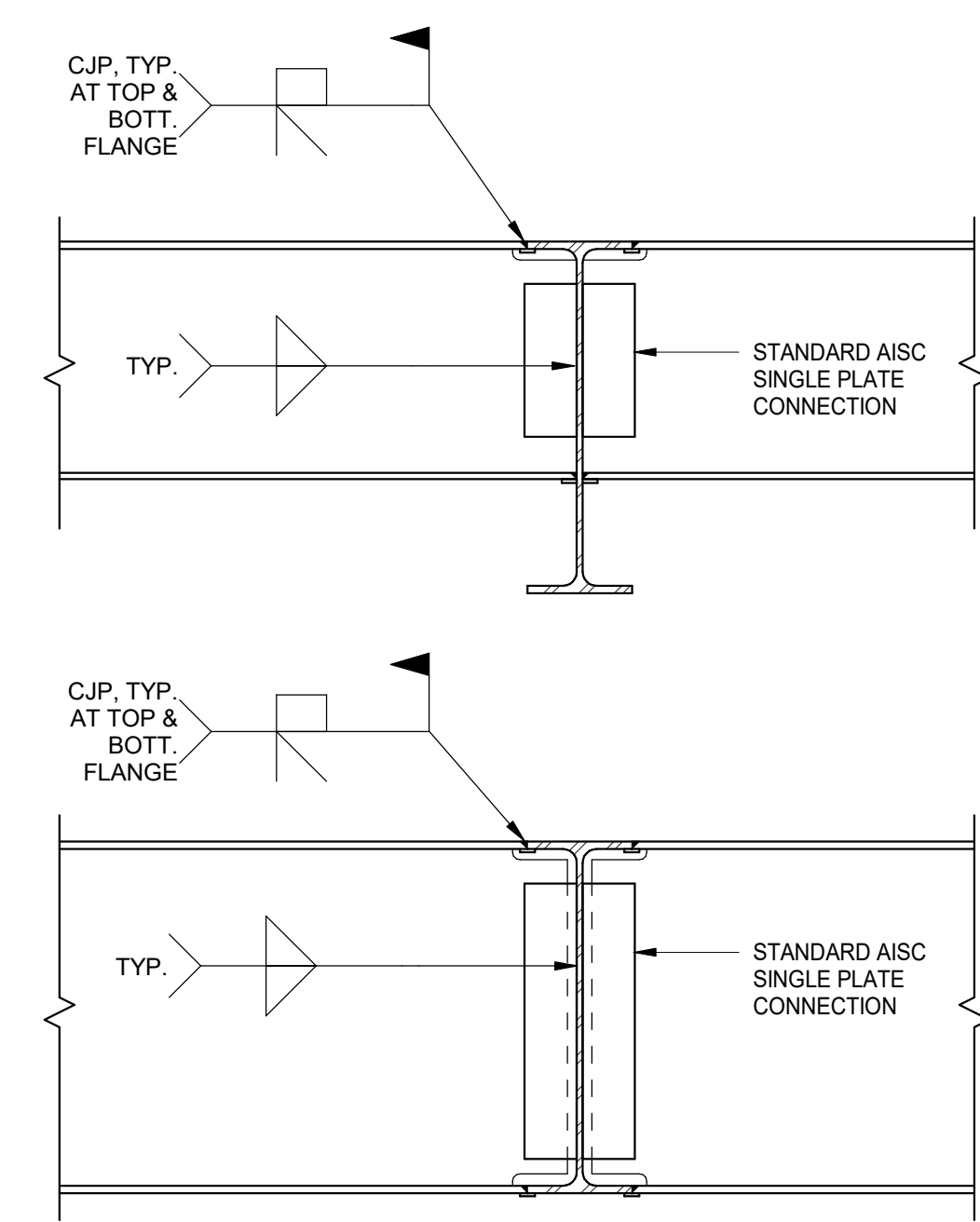
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Drawn By: J.G.
Sheet: S1.2B



3 TYPICAL COLUMN BASE PLATE DETAIL (HSS ROUND COLUMN)
N.T.S.

2 TYPICAL COLUMN BASE PLATE DETAIL (HSS TUBE COLUMN)
N.T.S.

1 TYPICAL COLUMN BASE PLATE DETAIL (WIDE FLANGE COLUMN)
N.T.S.



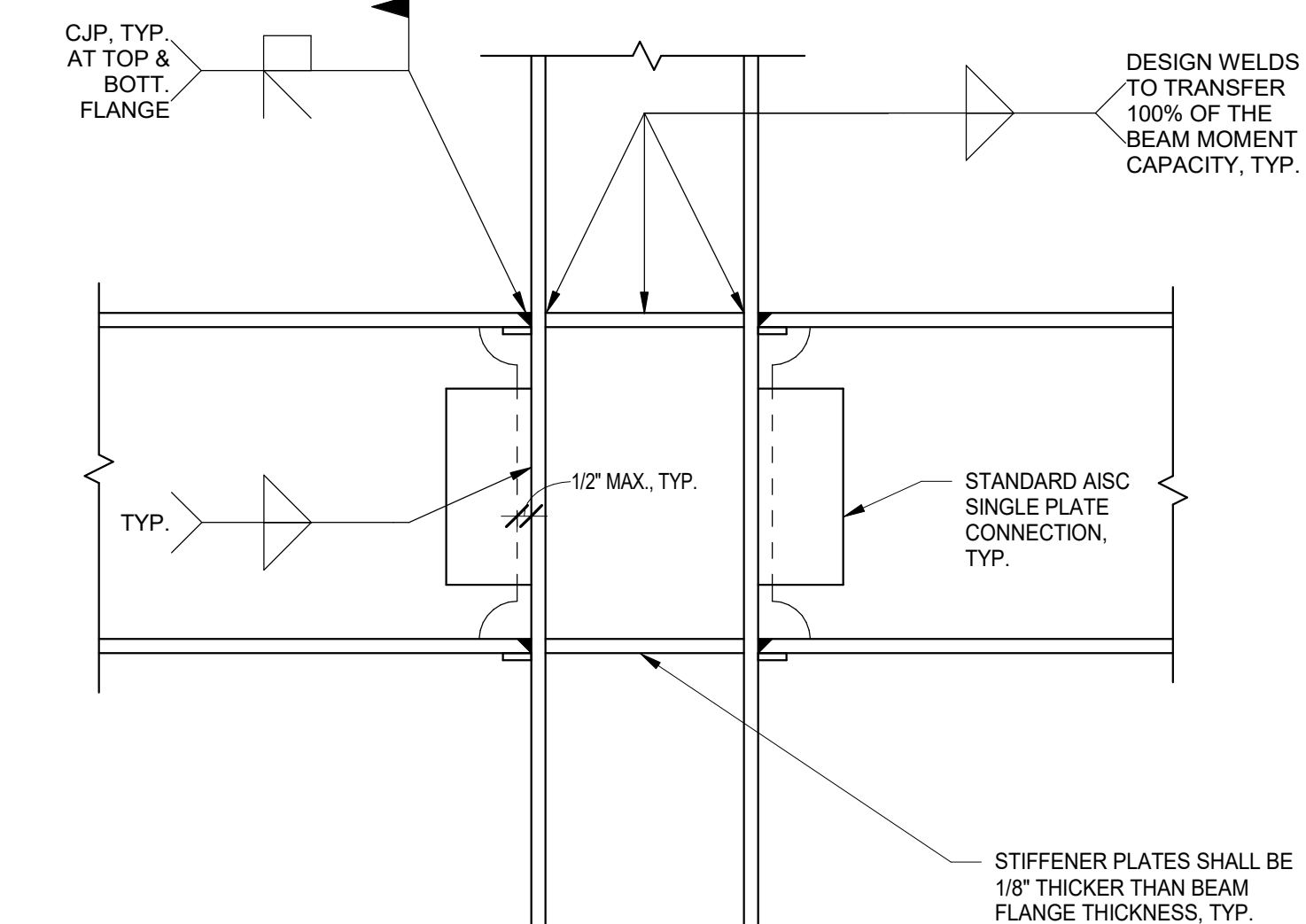
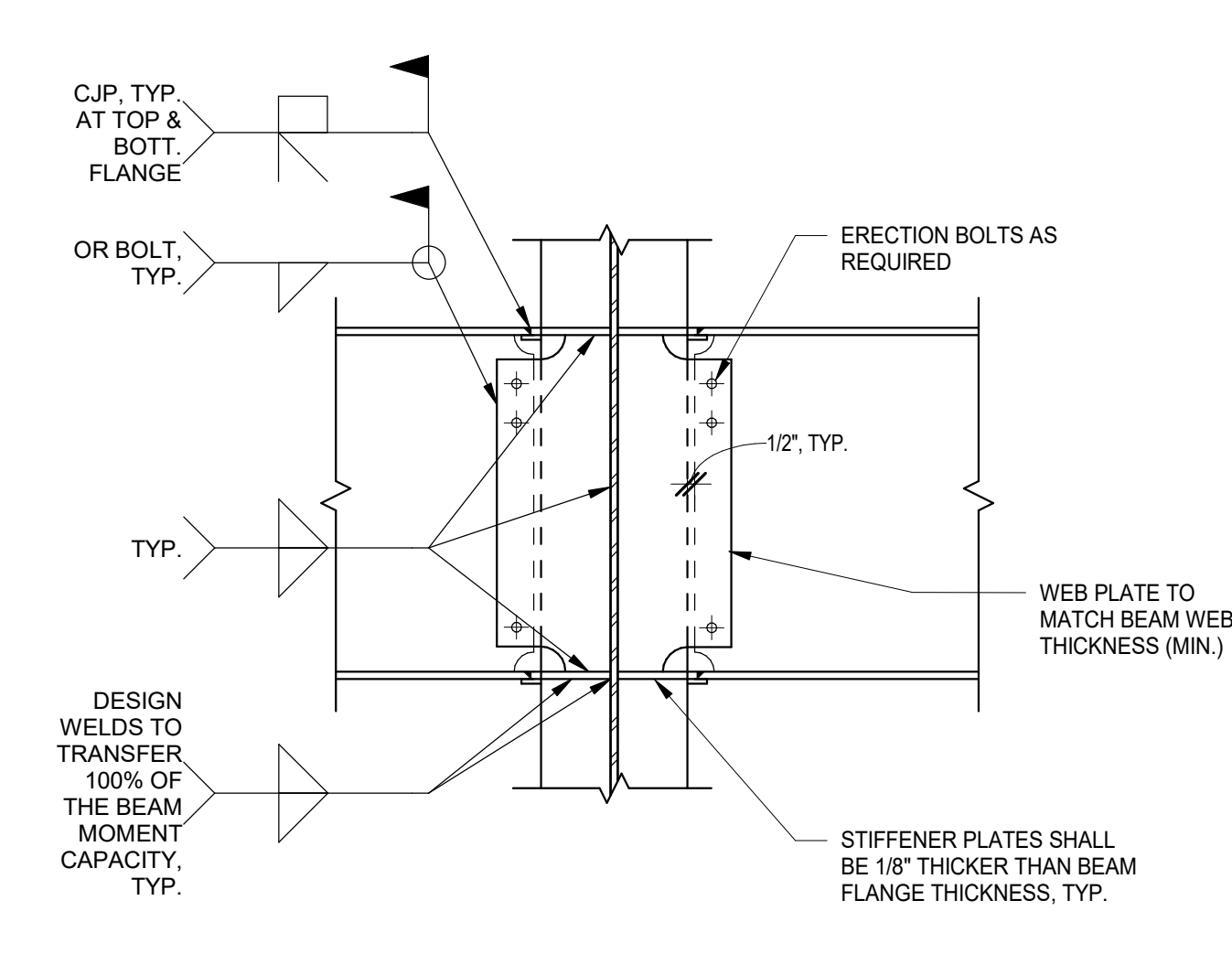
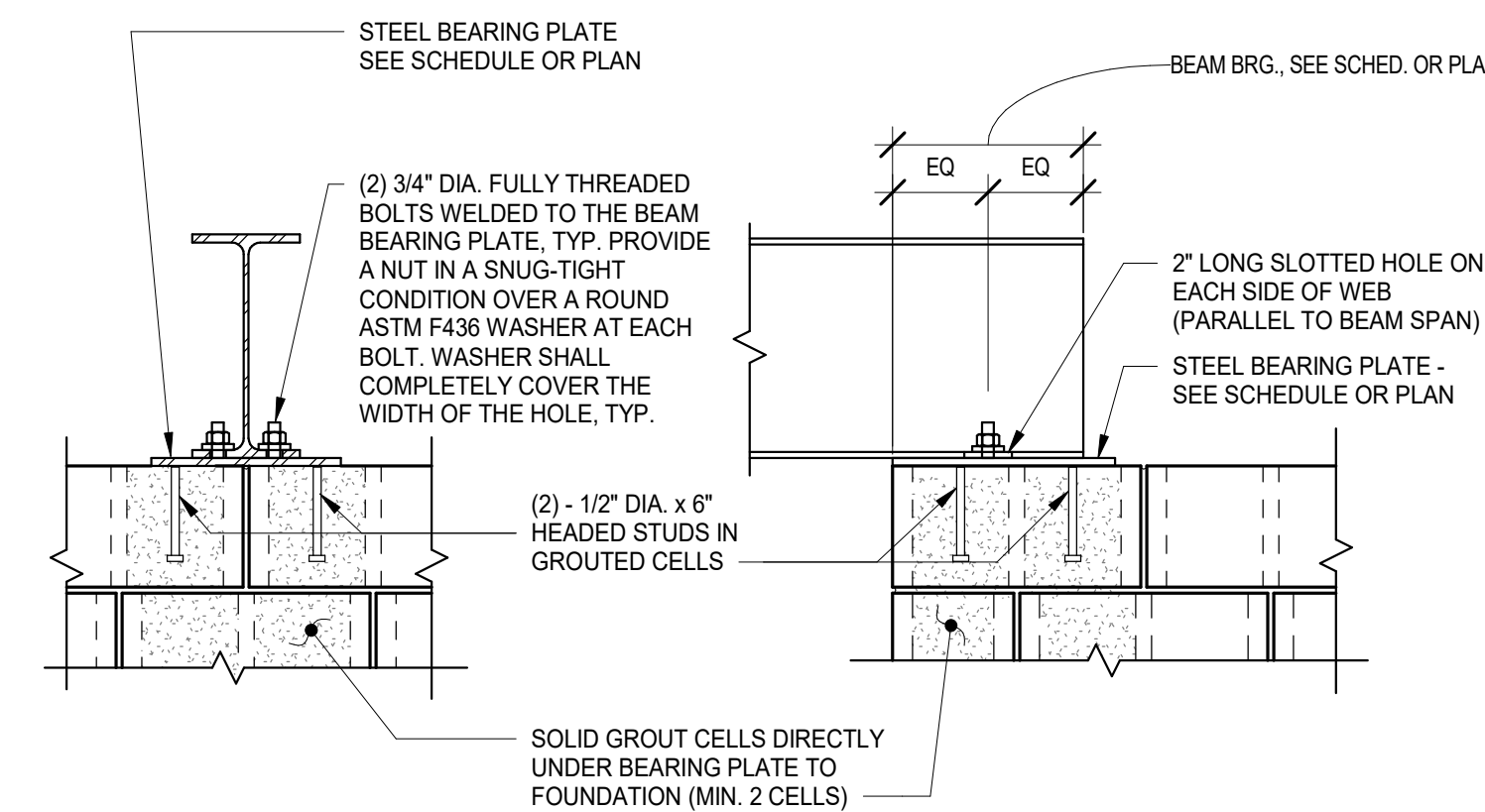
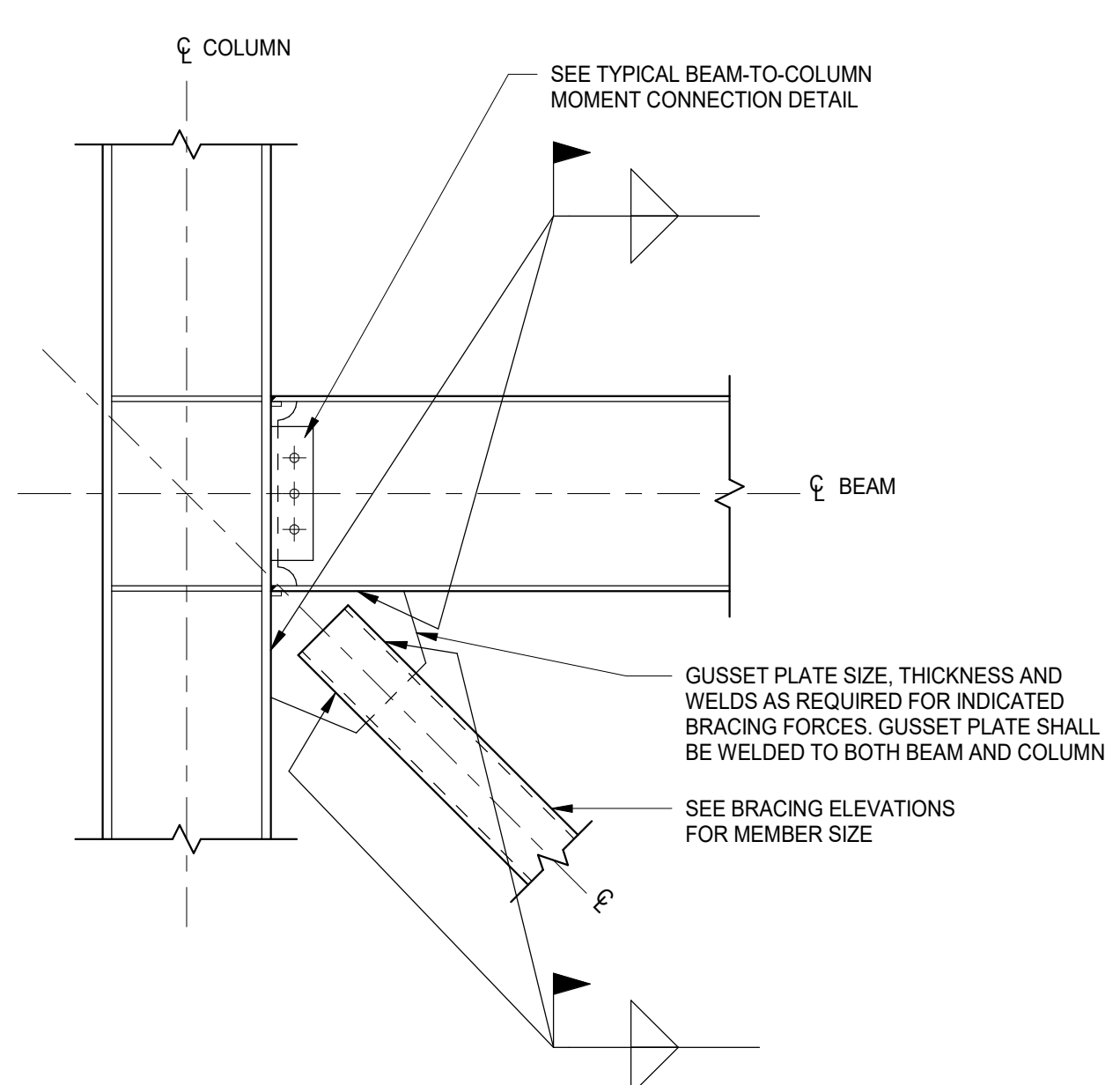
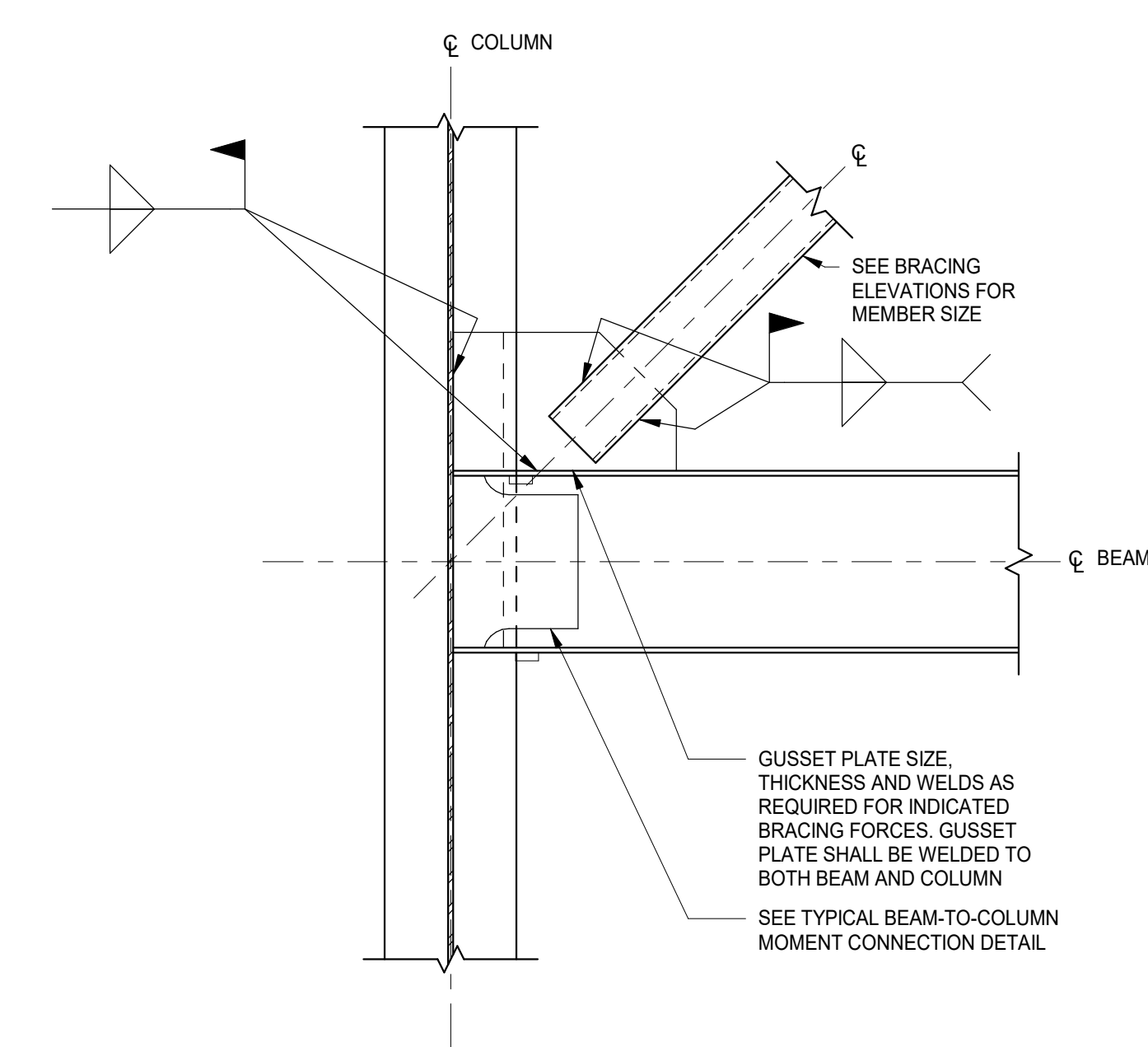
8 TYPICAL BEAM-TO-GIRDER MOMENT CONNECTION DETAIL
N.T.S.

7 TYPICAL SKEWED BEAM CONNECTION DETAIL
N.T.S.

6 TYPICAL BEAM-TO-HSS COLUMN CONNECTION DETAIL
N.T.S.

5 TYPICAL BEAM-TO-COLUMN CONNECTION DETAIL
N.T.S.

4 TYPICAL BEAM-TO-GIRDER CONNECTION DETAIL
N.T.S.



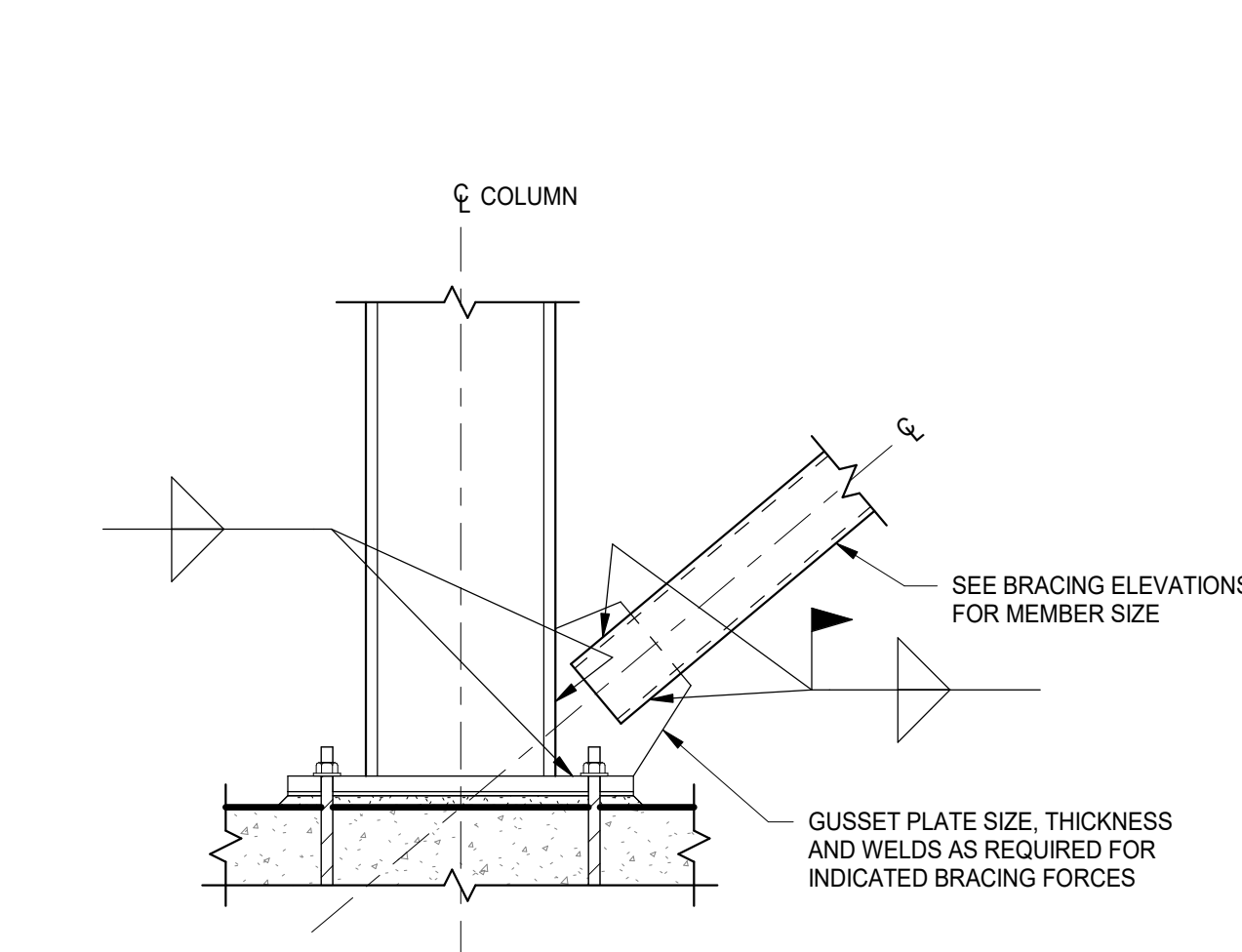
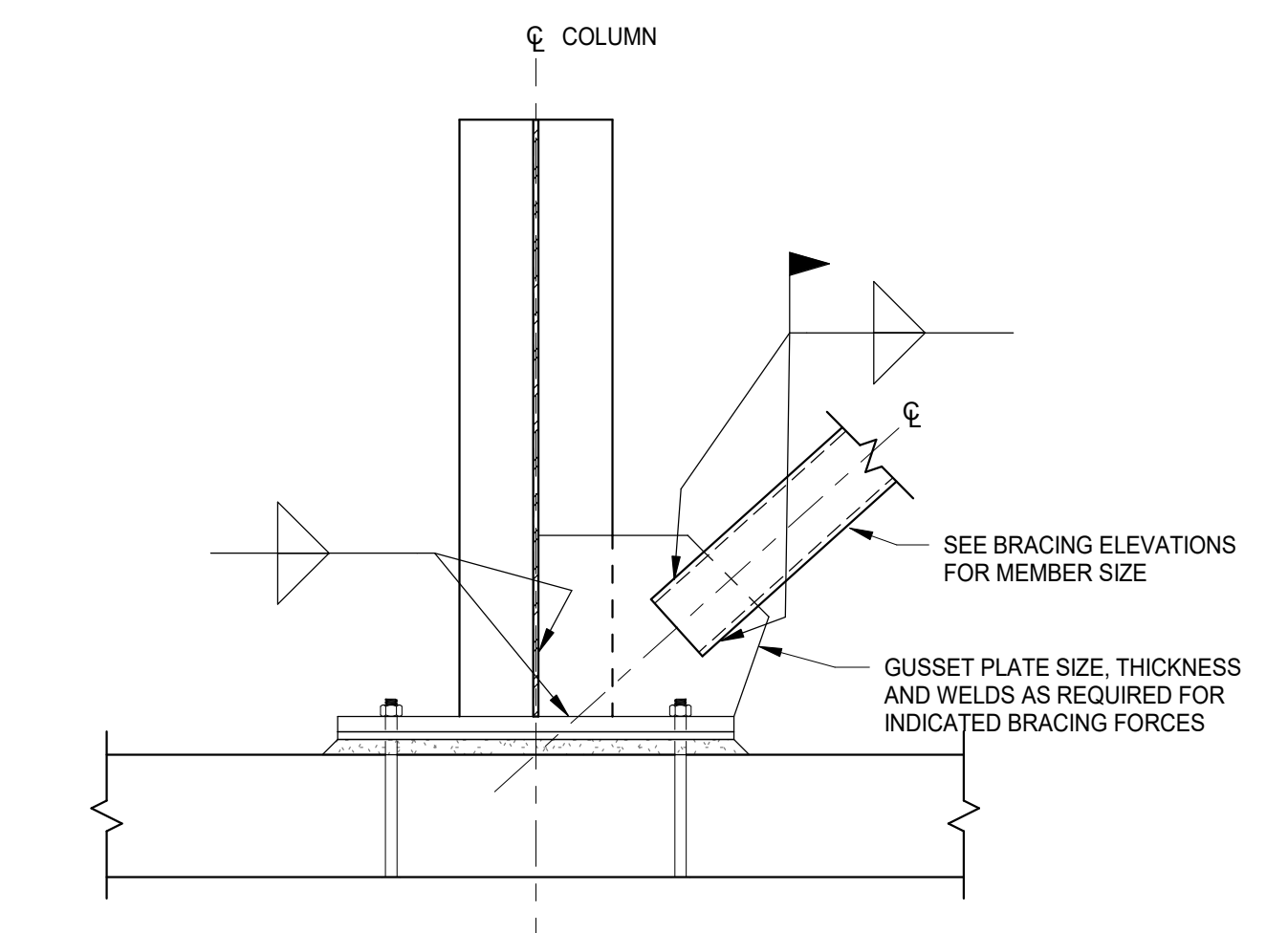
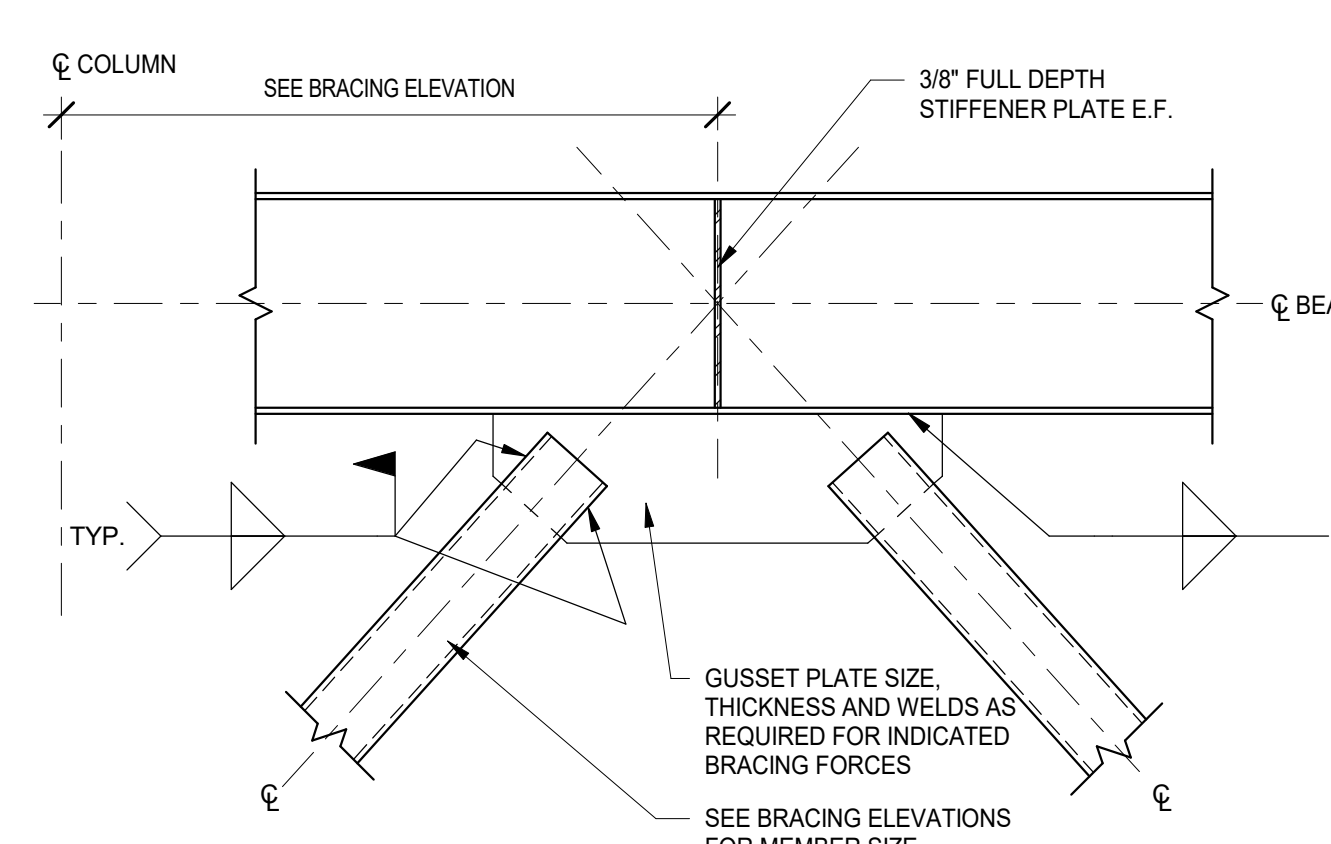
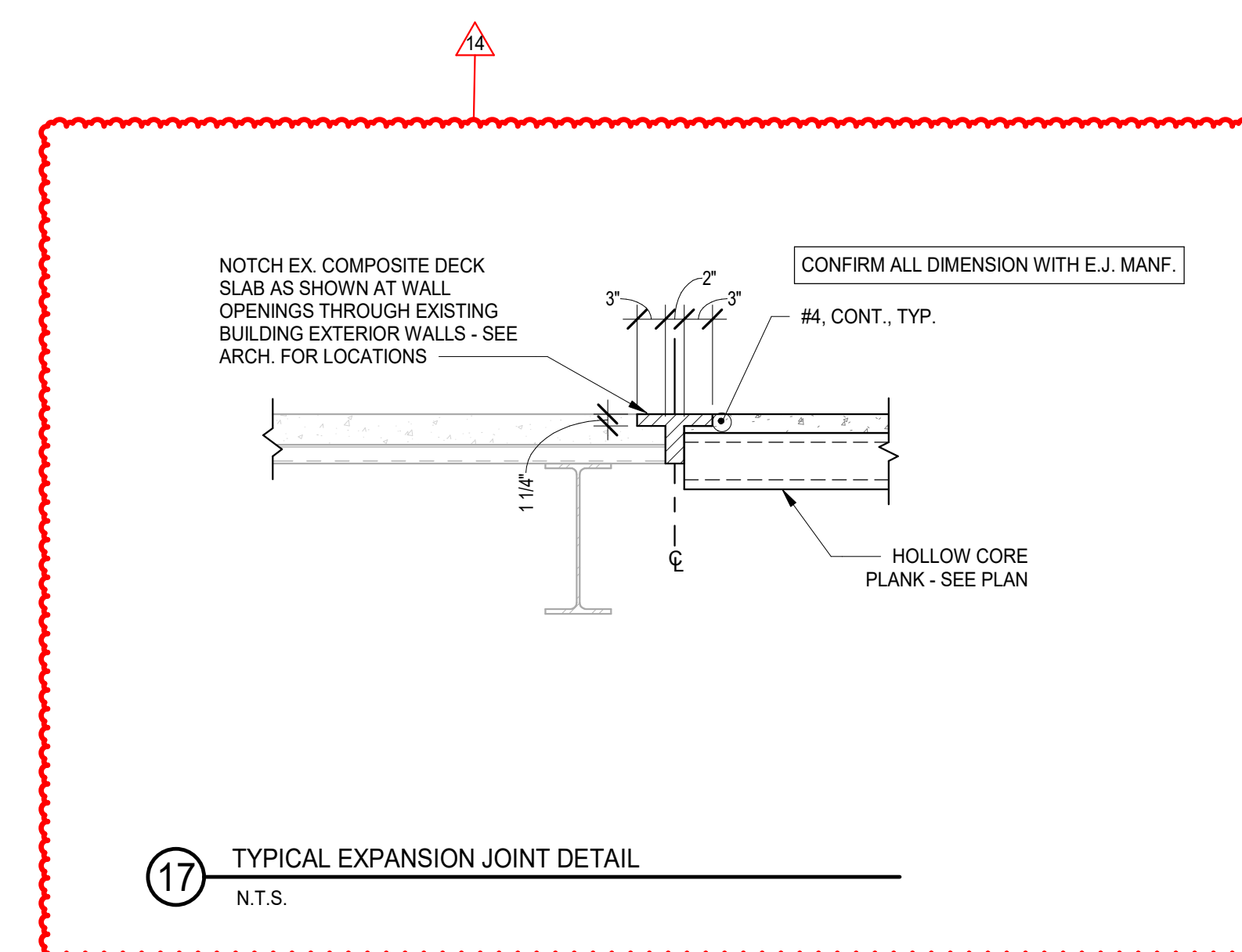
13 TYPICAL HSS BRACING CONNECTION DETAIL (COLUMN WEB)
N.T.S.

12 TYPICAL HSS BRACING CONNECTION DETAIL (COLUMN FLANGE)
N.T.S.

11 TYPICAL BEAM-TO-CMU WALL BEARING DETAIL
N.T.S.

10 TYPICAL BEAM-TO-COLUMN MOMENT CONNECTION DETAIL (WEB)
N.T.S.

9 TYPICAL BEAM-TO-COLUMN MOMENT CONNECTION DETAIL (FLANGE)
N.T.S.



17 TYPICAL EXPANSION JOINT DETAIL
N.T.S.

16 TYPICAL HSS BRACING CONNECTION DETAIL (CONCENTRIC BRACING)
SCALE: 1" = 1'-0"

15 TYPICAL HSS BRACING CONNECTION DETAIL (FOUNDATION COLUMN WEB)
N.T.S.

14 TYPICAL HSS BRACING CONNECTION DETAIL (FOUNDATION COLUMN FLANGE)
N.T.S.

NOT FOR CONSTRUCTION

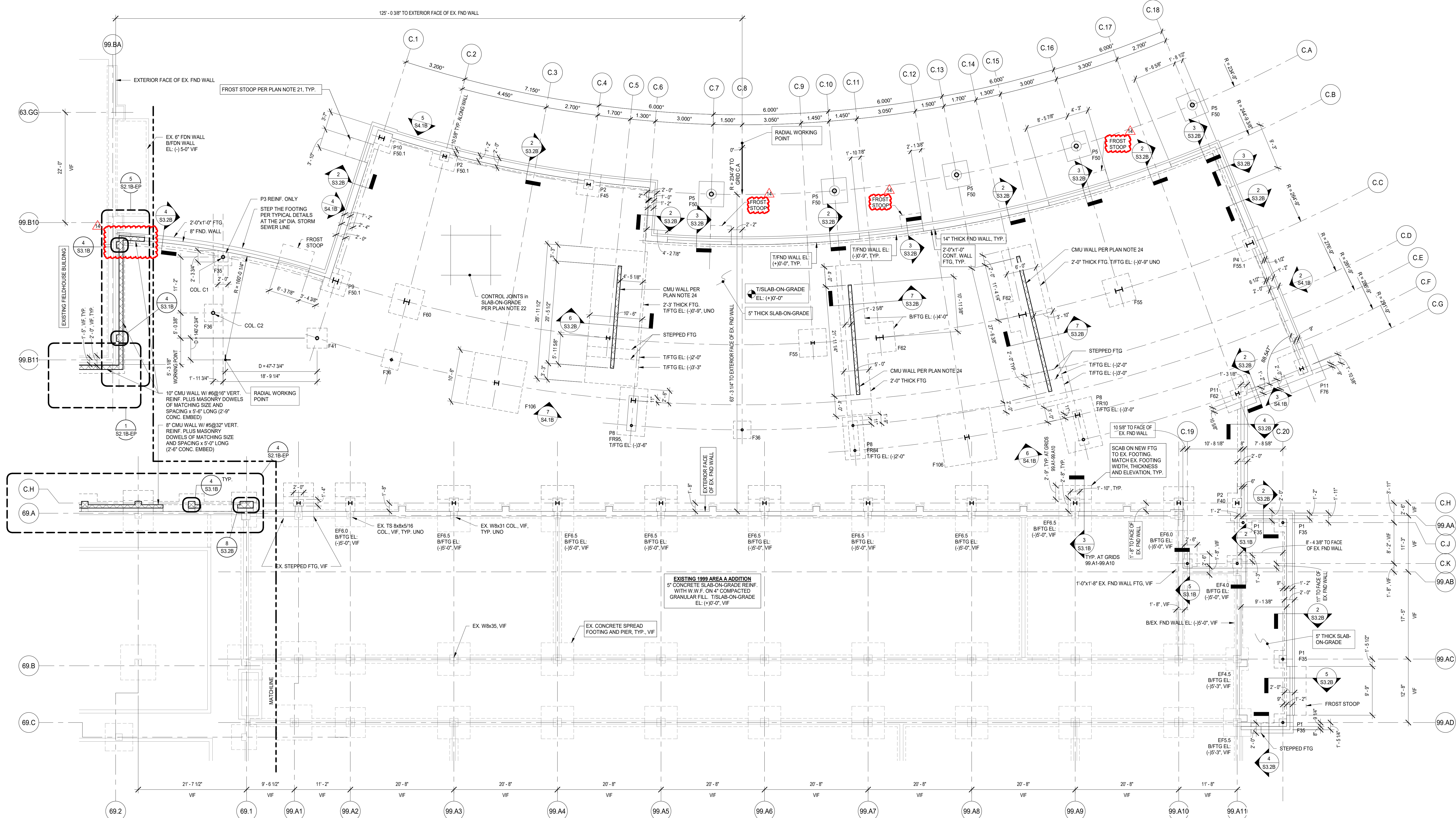
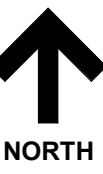
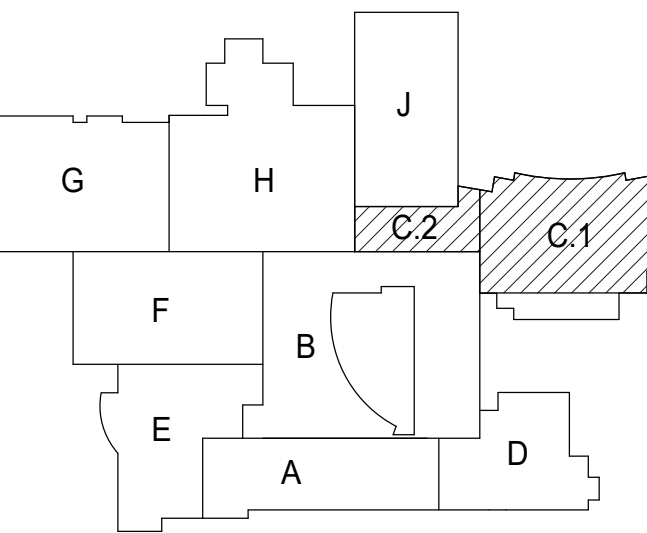
14	ISSUED FOR ADDENDUM 2- BID GROUP 6	05.31.2019
	ISSUED FOR BID - BID GROUP 6	05.10.2019
	ISSUED FOR 75% CD - PHASE B	05.10.2019
	ISSUED FOR 50% CONSTRUCTION DOCUMENTS - PHASE B	04.12.2019
	ISSUED FOR DESIGN DEVELOPMENT - PHASE B	03.11.2019
REV	ISSUE	DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

TYPICAL SECTIONS AND DETAILS

Project Number:
5274-42
Drawn By:
J.G.
Sheet:



1 PHASE B FOUNDATION PLAN - AREA C.1
SCALE: 1/8" = 1'-0"

- PLAN NOTES**
- SEE S0 SERIES DRAWINGS FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LINTEL SCHEDULES.
 - SEE S1 SERIES DRAWINGS FOR TYPICAL SECTIONS AND DETAILS.
 - SEE S3 SERIES DRAWINGS FOR NON-TYPICAL SECTIONS AND DETAILS.
 - SEE S4 SERIES DRAWINGS FOR SCHEDULES AND DETAILS.
 - SEE S5 SERIES DRAWINGS FOR ELEVATIONS.
 - CENTERLINE OF SPREAD FOOTING IS ON GRIDLINE, TYPICAL UNLESS NOTED OTHERWISE.
 - SEE S1.18 FOR TYPICAL SPREAD FOOTING DETAIL AND SPREAD FOOTING SCHEDULE.
 - BNEW CONTINUOUS WALL FOOTING ELEVATION = (+3'-0"), TYP. UNO ON PLAN.
 - TNEW INTERIOR SPREAD FOOTING ELEVATION = (+3'-0"), TYP. UNO ON PLAN.
 - BNEW EXTERIOR SPREAD FOOTINGS AND SPREAD FOOTINGS ENGAGED WITH NEW FOUNDATION WALLS ELEVATION = (+4'-0"), TYP. UNO ON PLAN. SEE PLAN FOR BOTTOM OF SCAB-ON-FOOTING ELEVATIONS. TYPICALLY, THE BNEW SCAB-ON-FOOTING ELEVATIONS SHALL MATCH THE BEXISTING FOOTING ELEVATION.
 - TNEW FOUNDATION WALL ELEVATION = (+10'-0"), TYP.
 - TNEW FOUNDATION WALL ELEVATION AT DOOR OPENING = (+10'-0"), TYP.
 - ESTABLISH BOTTOM OF FOOTINGS IN STRATUM AS INDICATED. ELEVATIONS GIVEN ARE FOR BIDDING/ESTIMATING PURPOSES ONLY. ON-SITE INSPECTION OF FOUNDATION BEARING STRATA SHALL BE CONDUCTED DURING CONSTRUCTION BY A QUALIFIED GEOTECHNICAL ENGINEER.
 - CENTERLINE OF COLUMN IS ON GRIDLINE. TYPICAL UNLESS NOTED OTHERWISE.
 - SEE PLANS FOR COLUMN ORIENTATION AND COLUMN CENTERLINE TO GRIDLINE DIMENSIONS FOR OFFSET COLUMNS.
 - SEE PLANS FOR TOP OF ROUGH SLAB ELEVATION.
 - SLAB-ON-GRADE SHALL BE 5" THICK CONCRETE SLAB OVER PREPARED SUBGRADE. REINFORCE WITH 4 LBS/CY. YD. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
 - PROVIDE THICKENED SLAB AND DOWELS TO CMU WALLS (IN GROUDED CELLS) AT SLAB-ON-GRADE IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS. SEE ARCHITECTURAL DRAWINGS FOR CMU WALL SIZE, LOCATION, REINFORCEMENT, TOP-OF-WALL CONNECTION AND CURB, IF ANY.
 - SEE ARCHITECTURAL DRAWINGS FOR CURBS NOT INDICATED (SIZE AND LOCATION). SEE TYPICAL SECTIONS AND DETAILS FOR CURB REINFORCEMENT.
 - SEE TYPICAL DETAILS FOR ELECTRICAL GROUNDING DETAIL AND REQUIREMENTS FOR A CONCRETE ENCASED GROUNDING ELECTRODE. COORDINATE WITH ELECTRICAL CONTRACTOR.
 - FROST STOOP SHALL CONSIST OF STONE FILLED FROTH DRAINING MATERIAL, DOWN TO 4" BELOW FINISH GRADE, TYP. SEE ARCH. DRAWINGS FOR PROPER LOCATION OF COMPRESSIBLE 1/2" THICK JOINT FILLER BETWEEN THE INTERIOR SLAB-ON-GRADE AND THE EXTERIOR PLATWORK, WHERE APPLICABLE, TYP.
 - PROVIDE CONTROL JOINTS IN THE SLAB-ON-GRADE AT COLUMN CENTERLINES AND 12' CTS MAX AT REMAINDER. SEE TYPICAL DETAILS 9 AND 13 ON S1.18 FOR CONTROL JOINT AND COLUMN ISOLATION JOINT DETAILS. SEE ARCHITECTURAL DRAWINGS FOR THE RADIAL CONTROL JOINT LAYOUT.
 - ALL NEW WALL FOOTINGS SHALL BE 1'-0" THICK UNO ON PLAN.
 - 8" CMU WALL W/ #6@24" VERT. REINF. PLUS MASONRY DOWELS OF MATCHING SIZE AND SPACING X 6" LONG (2" CONC. EMBED). PROVIDE VERT. REINF. AND DOWELS IN LAST 3 CELLS AT EACH END OF WALL.
 - TNEW CONCRETE PIER ELEVATION = (+3'-0"), TYP. UNO ON PLAN.

1969 EXISTING FOOTING SCHEDULE		
MARK	SIZE	BOTTOM REINFORCEMENT
EF1	6'-0"x6'-0"x1'-8"	888 EACH WAY
EF2	7'-0"x7'-0"x1'-10"	988 EACH WAY
EF3	5'-0"x5'-0"x1'-6"	787 EACH WAY
EF4	6'-0"x6'-0"x1'-7"	887 EACH WAY
EF5	5'-0"x5'-0"x1'-4"	786 EACH WAY
EF7	3'-0"x3'-0"x1'-0"	485 EACH WAY
EF8	4'-6"x4'-6"x1'-2"	686 EACH WAY
EF9	4'-4"x4'-6"x1'-5"	787 EACH WAY
EF10	4'-0"x4'-0"x1'-3"	785 EACH WAY

1999 EXISTING FOOTING SCHEDULE		
MARK	SIZE	BOTTOM REINFORCEMENT
EF3.0	3'-0"x3'-0"x1'-0"	485 EACH WAY
EF4.0	4'-0"x4'-0"x1'-0"	485 EACH WAY
EF4.5	4'-6"x4'-6"x1'-0"	784 EACH WAY
EF5.0	5'-0"x5'-0"x1'-0"	985 EACH WAY
EF5.5	5'-6"x5'-6"x1'-3"	685 EACH WAY
EF6.0	6'-0"x6'-0"x1'-3"	685 EACH WAY
EF6.5	6'-6"x6'-6"x1'-6"	686 EACH WAY
EF7.0	7'-0"x7'-0"x1'-8"	786 EACH WAY

PIER SCHEDULE				
MARK	SIZE	VERTICAL REINFORCEMENT AND FTG DOWELS	TIES	T/PIER ELEVATION
P1	18"x18"	12#5	#3	(+10'-9")
P2	22"x22"	12#6	#3	(+10'-0")
P3	22"x28"	14#6	#3	(+10'-9")
P4	28"x28"	18#7	#3	(+10'-9")
P5	22" ROUND	10#6	#3	(+10'-4")
P6	16"x30"	16#6	#3	(+10'-9")
P7	20"x34"	16#6	#3	(+10'-0")
P8	22"x7'-0"	30#7	#3	(+10'-9")
P9	28"x34"	18#7	#3	(+10'-9")

PIER SCHEDULE				
MARK	SIZE	VERTICAL REINFORCEMENT AND FTG DOWELS	TIES	T/PIER ELEVATION
P10	32"x36"	18#7	#3	(+10'-9")
P11	22"x36"	18#7	#3	(+10'-9")

NOT FOR CONSTRUCTION

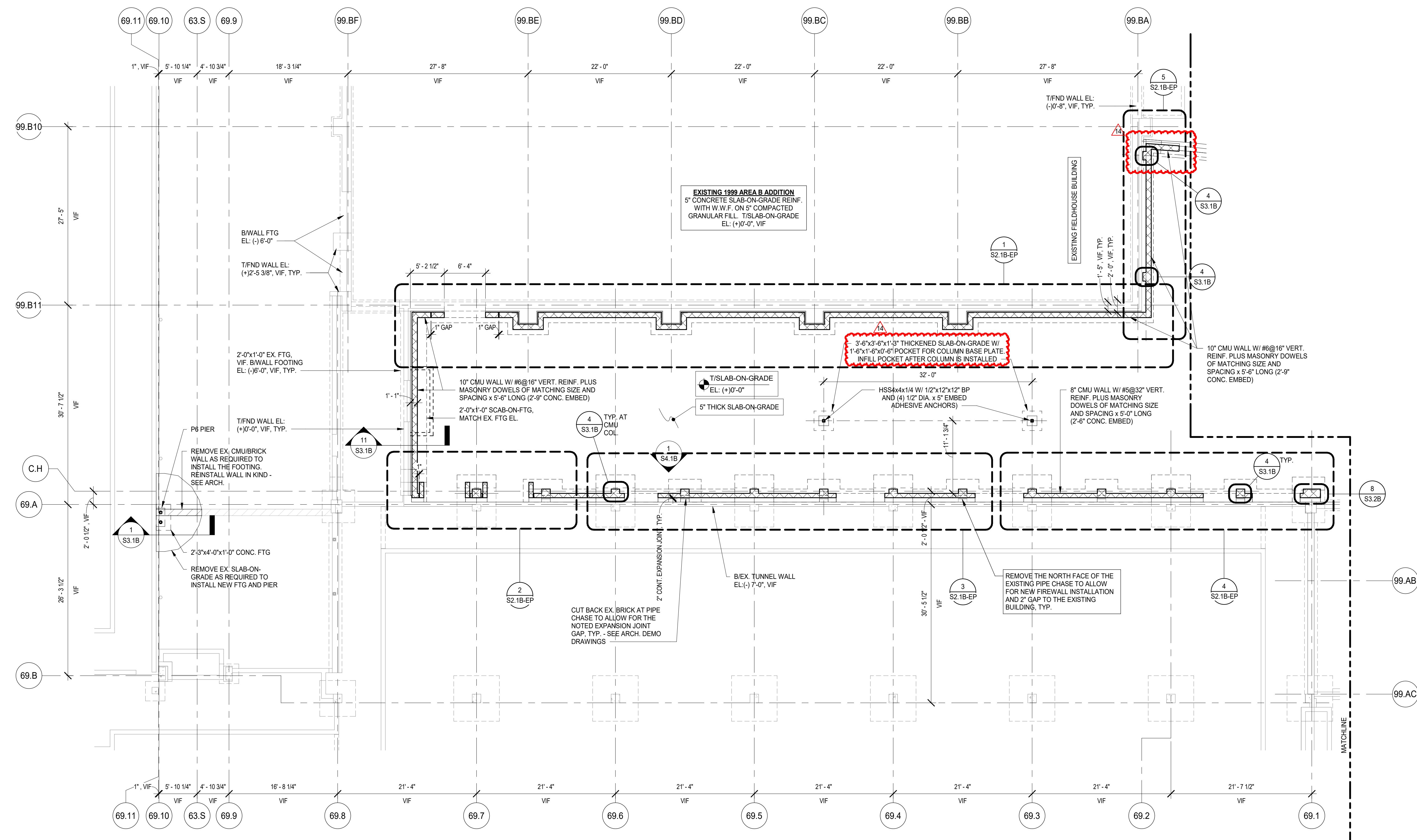
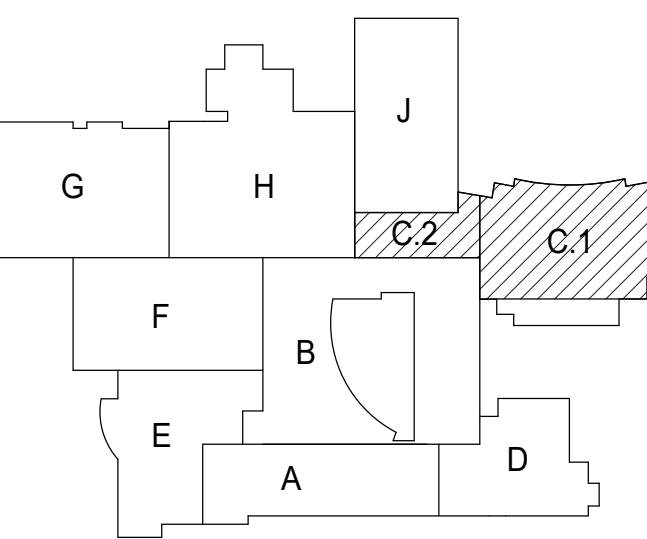
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MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60616

FOUNDATION PLAN - AREA C.1

Project Number:
5274-42
Drawn By:
J.G.
Sheet:
S2.1B-C1



1 PHASE B FOUNDATION PLAN - AREA C.2
SCALE: 1/8" = 1'-0"

- PLAN NOTES**
- SEE S0 SERIES DRAWINGS FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LINTEL SCHEDULES.
 - SEE S1 SERIES DRAWINGS FOR TYPICAL SECTIONS AND DETAILS.
 - SEE S3 SERIES DRAWINGS FOR NON-TYPICAL SECTIONS AND DETAILS.
 - SEE S4 SERIES DRAWINGS FOR SCHEDULES AND DETAILS.
 - SEE S5 SERIES DRAWINGS FOR ELEVATIONS.
 - CENTERLINE OF SPREAD FOOTING IS ON GRIDLINE. TYPICAL UNLESS NOTED OTHERWISE.
 - SEE S1.18 FOR TYPICAL SPREAD FOOTING DETAIL AND SPREAD FOOTING SCHEDULE.
 - BNEW CONTINUOUS WALL FOOTING ELEVATION = (+)0'-0". TYP. UNO ON PLAN.
 - TNEW INTERIOR SPREAD FOOTING ELEVATION = (+)0'-0". TYP. UNO ON PLAN.
 - BNEW EXTERIOR SPREAD FOOTINGS AND SPREAD FOOTINGS ENGAGED WITH NEW FOUNDATION WALLS ELEVATION = (+)0'-0". TYP. UNO ON PLAN. SEE PLAN FOR BOTTOM OF SLAB-ON-GRADE FOOTING ELEVATIONS. TYPICALLY, THE BNEW SPREAD FOOTING ELEVATIONS SHALL MATCH THE EXISTING FOOTING ELEVATION.
 - TNEW FOUNDATION WALL ELEVATION = (+)0'-0". TYP.
 - TNEW FOUNDATION WALL ELEVATION AT DOOR OPENING = (+)0'-0". TYP.
 - ESTABLISH BOTTOM OF FOOTINGS IN STRATUM AS INDICATED. ELEVATIONS GIVEN ARE FOR BIDDING ESTIMATING PURPOSES ONLY. ON-SITE INSPECTION OF FOUNDATION BEARING STRATA SHALL BE CONDUCTED DURING CONSTRUCTION BY A QUALIFIED GEOTECHNICAL ENGINEER.
 - CENTERLINE OF COLUMN IS ON GRIDLINE. TYPICAL UNLESS NOTED OTHERWISE.
 - SEE PLANS FOR COLUMN ORIENTATION AND COLUMN CENTERLINE TO GRIDLINE DIMENSIONS FOR OFFSET COLUMNS.
 - SEE PLANS FOR TOP OF ROUGH SLAB ELEVATION.
 - SLAB-ON-GRADE SHALL BE 5" THICK CONCRETE SLAB OVER PREPARED SUBGRADE. REINFORCE WITH 4 LBS/CU YD OF STRUX 6040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
 - PROVIDE THICKENED SLAB AND DOWELS TO CMU WALLS (IN GROUTED CELLS) AT SLAB-ON-GRADE IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS. SEE ARCHITECTURAL DRAWINGS FOR CMU WALL SIZE, LOCATION, REINFORCEMENT, TOP-OF-WALL CONNECTION AND CURB, IF ANY.
 - SEE ARCHITECTURAL DRAWINGS FOR CURBS NOT INDICATED (SIZE AND LOCATION). SEE TYPICAL SECTIONS AND DETAILS FOR CURB REINFORCEMENT.
 - SEE TYPICAL DETAILS FOR ELECTRICAL GROUNDING DETAIL AND REQUIREMENTS FOR A CONCRETE ENCASED GROUNDING ELECTRODE. COORDINATE WITH ELECTRICAL CONTRACTOR.
 - FROST STOP SHALL CONSIST OF STONE FILLED FREE DRAINING MATERIAL, DOWN TO 4'-0" BELOW FINISH GRADE. TYP. SEE ARCH. DRAWINGS FOR PROPER LOCATION OF COMPRESSIBLE 1/2" THICK JOINT FILLER BETWEEN THE INTERIOR SLAB-ON-GRADE AND THE EXTERIOR FLATWORK, WHERE APPLICABLE. TYP.
 - PROVIDE CONTROL JOINTS IN THE SLAB-ON-GRADE AT COLUMN CENTERLINES AND 12' CTS MAX AT REMAINDER. SEE TYPICAL DETAILS 8 AND 13 ON S1.18 FOR CONTROL JOINT AND COLUMN ISOLATION JOINT DETAILS. SEE ARCHITECTURAL DRAWINGS FOR THE RADIAL CONTROL JOINT LAYOUT.
 - ALL NEW WALL FOOTINGS SHALL BE 1'-0" THICK UNO ON PLAN.
 - 10" CMU WALL W/ #6@24" VERT. REINF. PLUS MASONRY DOWELS OF MATCHING SIZE AND SPACING x 5'-0" LONG (2'-0" CONC. EMBED). PROVIDE VERT. REINF. AND DOWELS IN LAST 3 CELLS AT EACH END OF WALL.
 - TNEW CONCRETE PIER ELEVATION = (+)0'-0". TYP. UNO ON PLAN.

1969 EXISTING FOOTING SCHEDULE		
MARK	SIZE	BOTTOM REINFORCEMENT
EF1	6'-0"x6'-0"x1'-8"	8#8 EACH WAY
EF2	7'-0"x7'-0"x1'-10"	9#8 EACH WAY
EF3	5'-0"x5'-0"x1'-6"	7#7 EACH WAY
EF4	6'-0"x6'-0"x1'-7"	8#7 EACH WAY
EF5	5'-0"x5'-0"x1'-4"	7#6 EACH WAY
EF7	3'-0"x3'-0"x1'-0"	4#5 EACH WAY
EF8	4'-0"x4'-0"x1'-2"	6#6 EACH WAY
EF9	4'-0"x5'-0"x1'-5"	7#7 EACH WAY
EF10	4'-0"x4'-0"x1'-3"	7#5 EACH WAY

1999 EXISTING FOOTING SCHEDULE		
MARK	SIZE	BOTTOM REINFORCEMENT
EF3.0	3'-0"x3'-0"x1'-0"	4#5 EACH WAY
EF4.0	4'-0"x4'-0"x1'-0"	4#5 EACH WAY
EF4.5	4'-0"x4'-0"x1'-0"	7#4 EACH WAY
EF5.0	5'-0"x5'-0"x1'-0"	5#5 EACH WAY
EF5.5	5'-0"x5'-0"x1'-3"	6#5 EACH WAY
EF6.0	6'-0"x6'-0"x1'-3"	6#5 EACH WAY
EF6.5	6'-0"x6'-0"x1'-6"	6#6 EACH WAY
EF7.0	7'-0"x7'-0"x1'-8"	7#6 EACH WAY

PIER SCHEDULE				
MARK	SIZE	VERTICAL REINFORCEMENT AND FTG DOWELS	TIES	TIPIER ELEVATION
P1	18"x18"	12#5	#3	(-)0'-0"
P2	22"x22"	12#6	#3	(-)0'-0"
P3	22"x26"	14#6	#3	(-)0'-0"
P4	26"x26"	16#7	#3	(-)0'-0"
P5	22" ROUND	10#6	#3	(+)0'-4"
P6	16"x36"	16#6	#3	(-)0'-0"
P7	20"x34"	16#6	#3	(+)0'-0"
P8	22"x7'-0"	30#7	#3	(-)0'-0"
P9	26"x34"	18#7	#3	(-)0'-0"

PIER SCHEDULE				
MARK	SIZE	VERTICAL REINFORCEMENT AND FTG DOWELS	TIES	TIPIER ELEVATION
P10	32"x36"	18#7	#3	(-)0'-0"
P11	22"x36"	18#7	#3	(-)0'-0"

NOT FOR CONSTRUCTION

14	ISSUED FOR ADDENDUM 2- BID GROUP 6	05.31.2019
	ISSUED FOR BID - BID GROUP 6	05.10.2019
	ISSUED FOR 75% CD - PHASE B	05.10.2019
	ISSUED FOR 50% CONSTRUCTION DOCUMENTS - PHASE B	04.12.2019
	ISSUED FOR DESIGN DEVELOPMENT - PHASE B	03.11.2019
REV	ISSUE	DATE

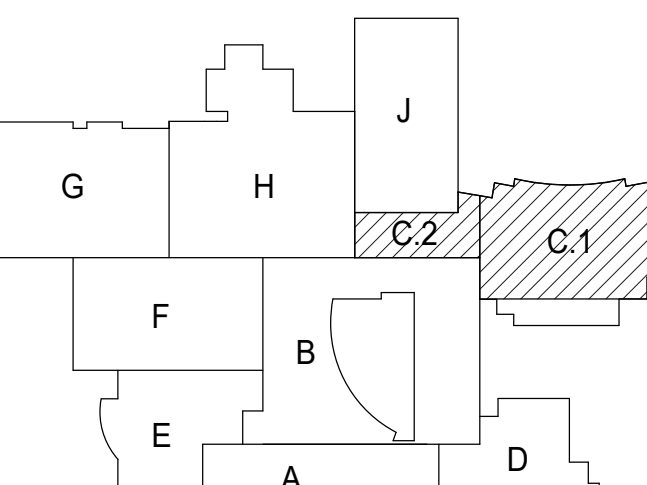
MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

FOUNDATION PLAN - AREA C.2

Project Number:
5274-42
Drawn By:
J.G.
Sheet:

S2.1B-C2



NOT FOR CONSTRUCTION

14 ISSUED FOR ADDENDUM 2- BID GROUP 6 05.31.2019
ISSUED FOR BID - BID GROUP 6 05.10.2019
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REV DATE

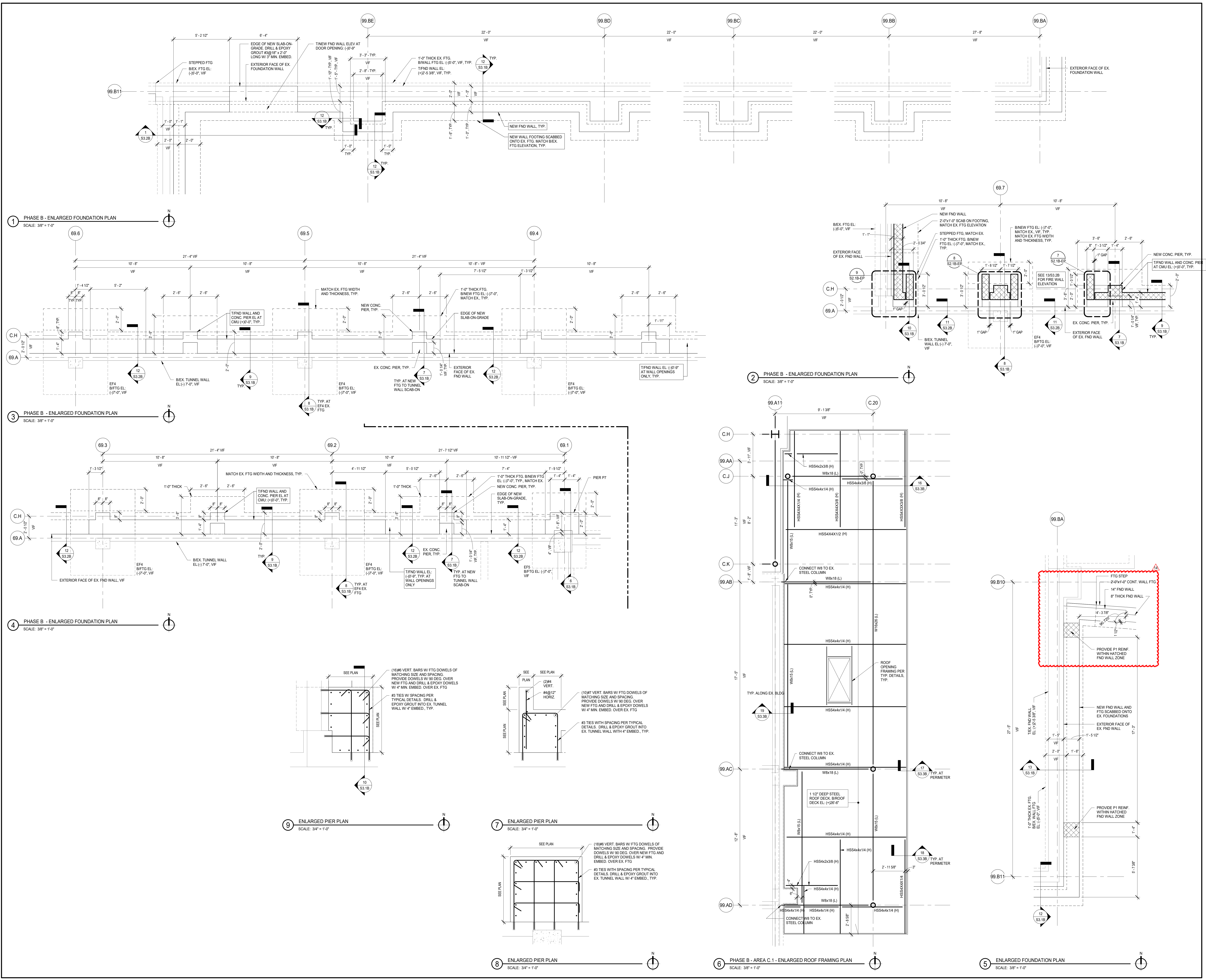
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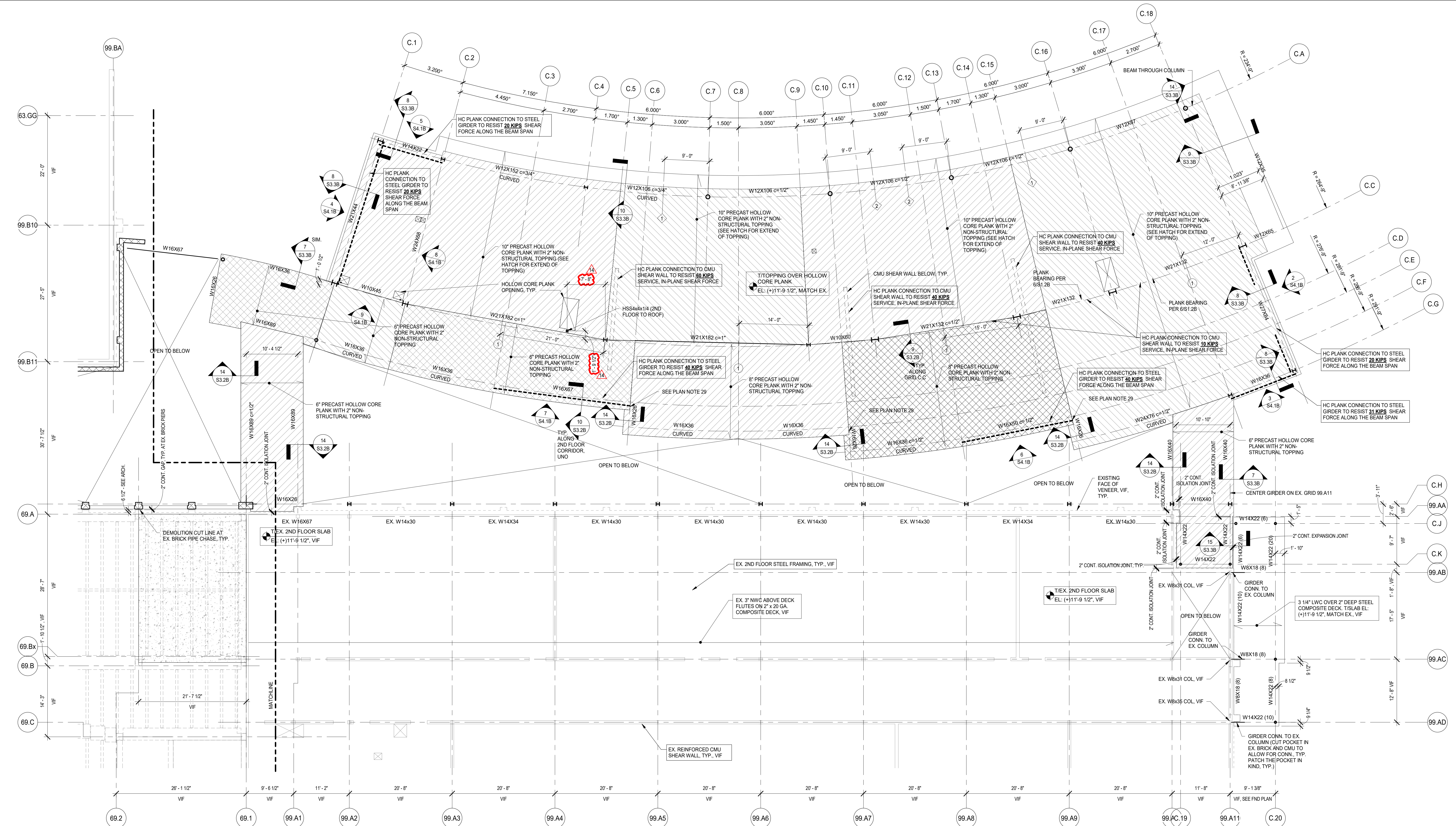
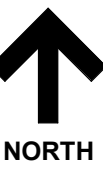
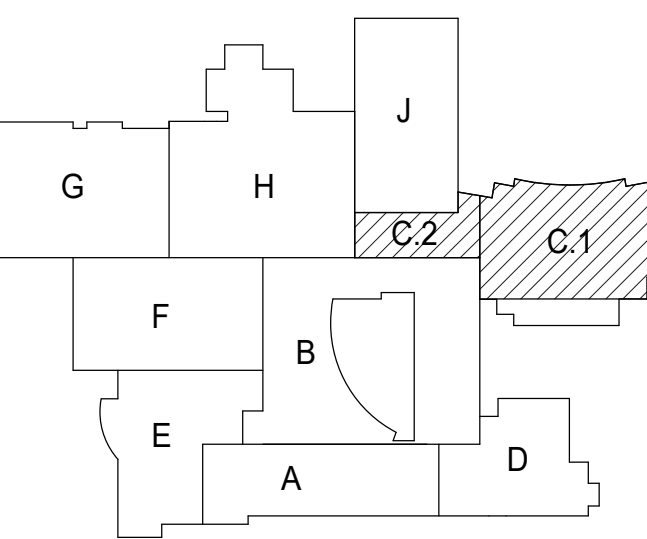
ENLARGED FOUNDATION PLANS

Project Number:
5274-42
Drawn By:
J.G

S2.1B-EP



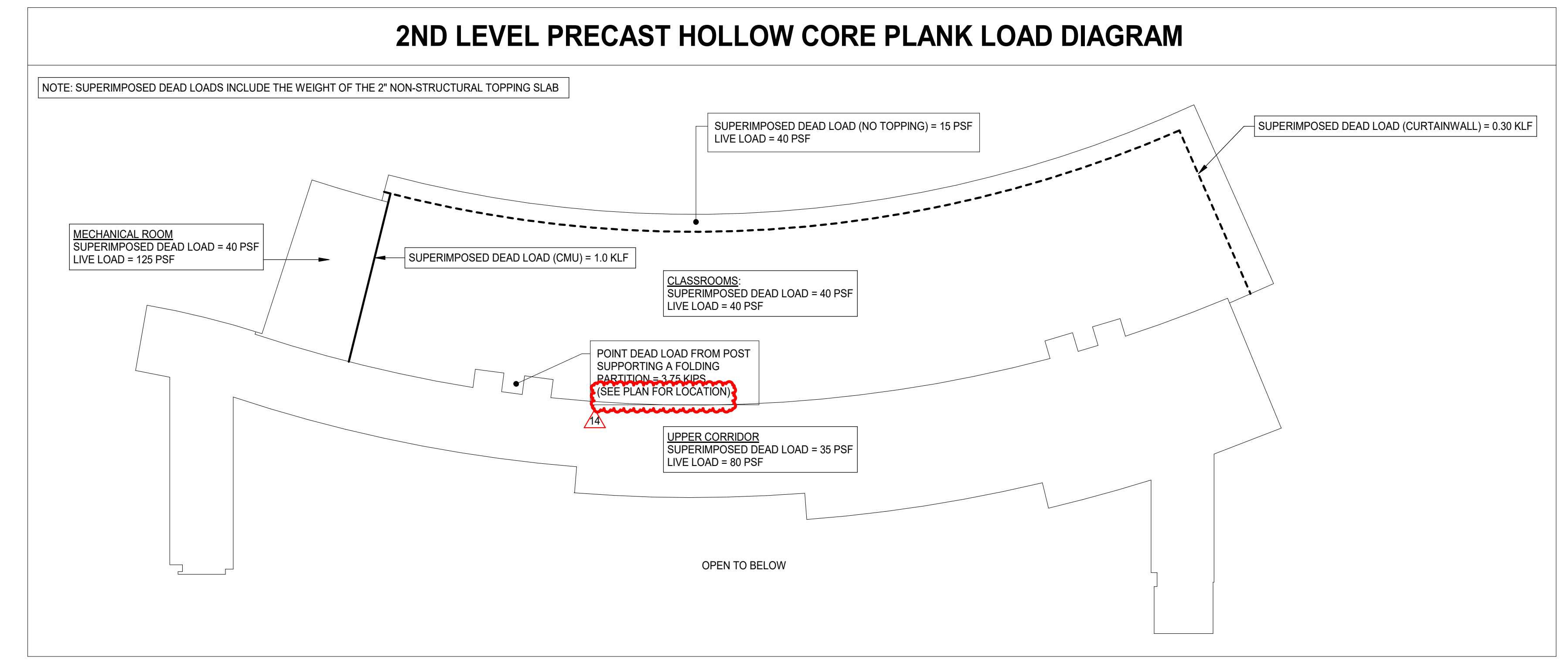
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1 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"

ELEVATED FLOOR AND ROOF PLAN NOTES

- SEE 50 SERIES DRAWINGS FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LINTEL SCHEDULES.
- SEE S1 SERIES DRAWINGS FOR TYPICAL SECTIONS AND DETAILS.
- SEE S3 SERIES DRAWINGS FOR NON-TYPICAL SECTIONS AND DETAILS.
- SEE S4 SERIES DRAWINGS FOR SCHEDULES AND DETAILS.
- SEE S5 SERIES DRAWINGS FOR ELEVATIONS.
- SEE PLANS FOR TOP OF HOLLOW CORE PLANK ELEVATION.
- CONCRETE TOPPING OVER HOLLOW CORE PLANK SHALL BE 2" THICK. REINFORCE NON-STRUCTURAL TOPPING SLAB WITH 4#5@12" O.C. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
- (H) AS INDICATED ON PLAN INDICATES HIGHER BEAM OF FRAMING MEMBERS IN SAME VERTICAL PLANE.
- (L) AS INDICATED ON PLAN INDICATES LOWER BEAM OF FRAMING MEMBERS IN SAME VERTICAL PLANE.
- SEE ARCHITECTURAL DRAWINGS FOR CURBS NOT INDICATED (SIZE AND LOCATION). SEE TYPICAL SECTIONS AND DETAILS FOR CURB REINFORCEMENT.
- FLOOR DECK SHALL BE 3 1/4" THICK LIGHTWEIGHT CONCRETE OVER 2" DEEP COMPOSITE STEEL FLOOR DECK. REINFORCE SLAB WITH 4#5@12" O.C. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
- SEE PLAN FOR BOTTOM OF STEEL DECK ELEVATIONS. TYPICAL UNLESS NOTED OTHERWISE.
- ROOF DECK SHALL BE 1 1/2" DEEP STEEL ROOF DECK UNO ON PLAN.
- SEE PLAN FOR BOTTOM OF STEEL ROOF DECK ELEVATIONS. TYPICAL UNLESS NOTED OTHERWISE.
- PROVIDE 1/8" STEEL ANGLE OR BENT PLATE AT ROOF PERIMETER AND L44 STEEL ANGLE OR BENT PLATE AT INTERIOR OPENINGS IN ACCORDANCE WITH TYPICAL DETAILS.
- SEE SHEET S5.2B FOR SPECIAL DESIGN JOIST SCHEMATIC LOADINGS.
- SUSPEND PPE HANGERS AND OTHER MECHANICAL EQUIPMENT FROM DESIGNATED OR APPROVED STEEL JOISTS. LOCATE CONCENTRATED LOADS AT JOIST PANEL POINTS ONLY OR REINFORCE STEEL JOISTS IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS.
- PLACE SUPPORTS FOR ROOF TOP EQUIPMENT LOADS ON DESIGNATED OR APPROVED STEEL JOISTS. LOCATE CONCENTRATED LOADS AT JOIST PANEL POINTS ONLY OR REINFORCE STEEL JOISTS IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS.
- SUPPORT ALL MEPP EQUIPMENT AND PIPING LARGER THAN 2" IN DIAMETER DIRECTLY FROM THE DESIGNATED STEEL ROOF JOIST AND STEEL WIDE-FLANGED BEAM AND GIRDER FRAMING. DO NOT SUPPORT THE AFOREMENTIONED FROM THE STEEL ROOF DECK DIRECTLY. ITEMS SUCH AS LIGHTWEIGHT CEILING GRID, LIGHTING MAY BE SUPPORTED FROM THE ROOF DECK DIRECTLY.
- AT THE NEW ADDITION, ALL ROOFS ARE DESIGNED TO SUPPORT A MAXIMUM ALLOWED SUPERIMPOSED DEAD LOAD FROM THE PHOTOVOLTAIC BALLASTED SYSTEM OF 1.5 PSF PLUS THE ADDITIONAL DOWNWARD WIND PRESSURE FROM THE PHOTOVOLTAIC BALLASTED SYSTEM OF 1.1 PSF. SYSTEMS OTHER THAN THE PHOTOVOLTAIC BALLASTED SYSTEM ARE NOT PERMITTED.
- AT 2ND FLOOR ONLY, SAW CUT 1/4" WIDE x 1 1/2" DEEP CONTROL JOINTS IN THE NON-STRUCTURAL TOPPING SLAB AT AREAS OF EXPOSED SEALED CONCRETE FINISH. LOCATE JOINTS AT COLUMN CENTERLINES AND AT 12 FEET CTS MAX AT REMAINDER.
- MAXIMUM LIVE LOAD DEFLECTION AT HOLLOW CORE PLANK = 3/4" TYP.
- 2ND FLOOR NON-STRUCTURAL TOPPING SLAB SHALL RECEIVE TROWEL FINISH PER SPECIFICATION SECTION 03300; SECTION 3.10. COORDINATE TROWELING AND FLOATING PROCEDURE WITH THE MACROSYNTHETIC FIBER SUPPLIER/MANUFACTURER.
- SEE STEEL DECK NOTES ON S6.1B FOR STEEL DECK DIAPHRAGM INFORMATION.
- MAXIMUM LIVE LOAD DEFLECTION AT THE ROOF STRUCTURE = 1" TYP.
- ALL MEP EQUIPMENT STEEL SUPPORTS SHALL BE COORDINATED WITH THE INSTALLING CONTRACTOR(S). SEE PLANS AND TYPICAL DETAILS FOR STEEL SUPPORT REQUIREMENTS.
- COORDINATE SIZE AND QUANTITY OF ROOF DECK PENETRATIONS WITH MEPP DRAWINGS. TYP. REINFORCE NEW PENETRATIONS IN EXISTING NEW ROOF DECKS PER TYPICAL STRUCTURAL DETAILS.
- DESIGN AND DETAIL THE ANGLE CONNECTION TO THE TOP OF STEEL COLUMN AND TO THE ROOF JOIST TOP CHORD FOR AN AXIAL FORCE OF 3 KIPS. JOIST SUPPLIER/MANUFACTURER SHALL DESIGN THE STEEL JOIST TOP CHORD FOR THE AFOREMENTIONED ANGLE AXIAL FORCE.
- PROVIDE A CONT. BENT STEEL PLATE OR CONT. HSS IN/ILL SUPPORT ON TOP OF THE BEAM FLANGE PER DETAIL W33.2B AT CHANGE IN PLANK THICKNESS.



NOT FOR CONSTRUCTION

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MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

2ND FLOOR FRAMING PLAN - AREA C.1

Project Number:
5274-42
Drawn By:
J.G.
Sheet:

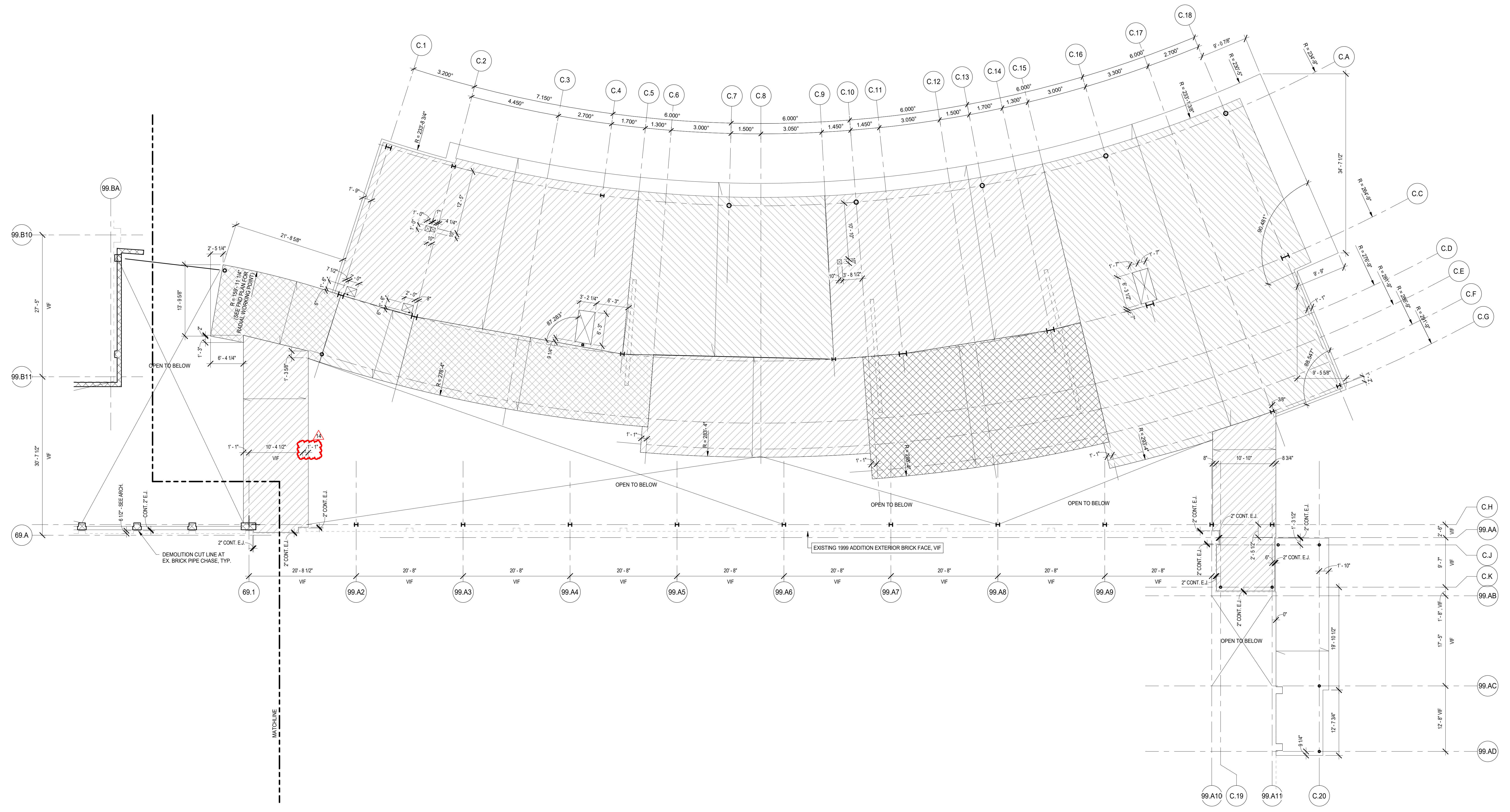
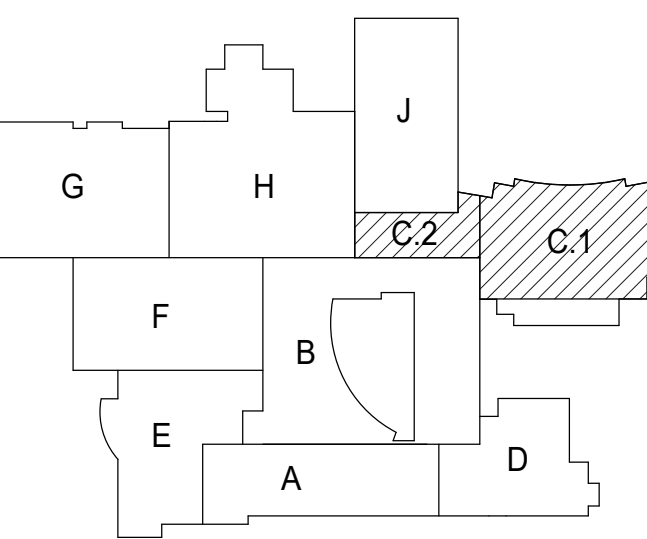
S2.2B-C1



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P 630.969.7000
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1 AREA C.1 - 2ND FLOOR SLAB EDGE PLAN
SCALE: 1/8" = 1'-0"

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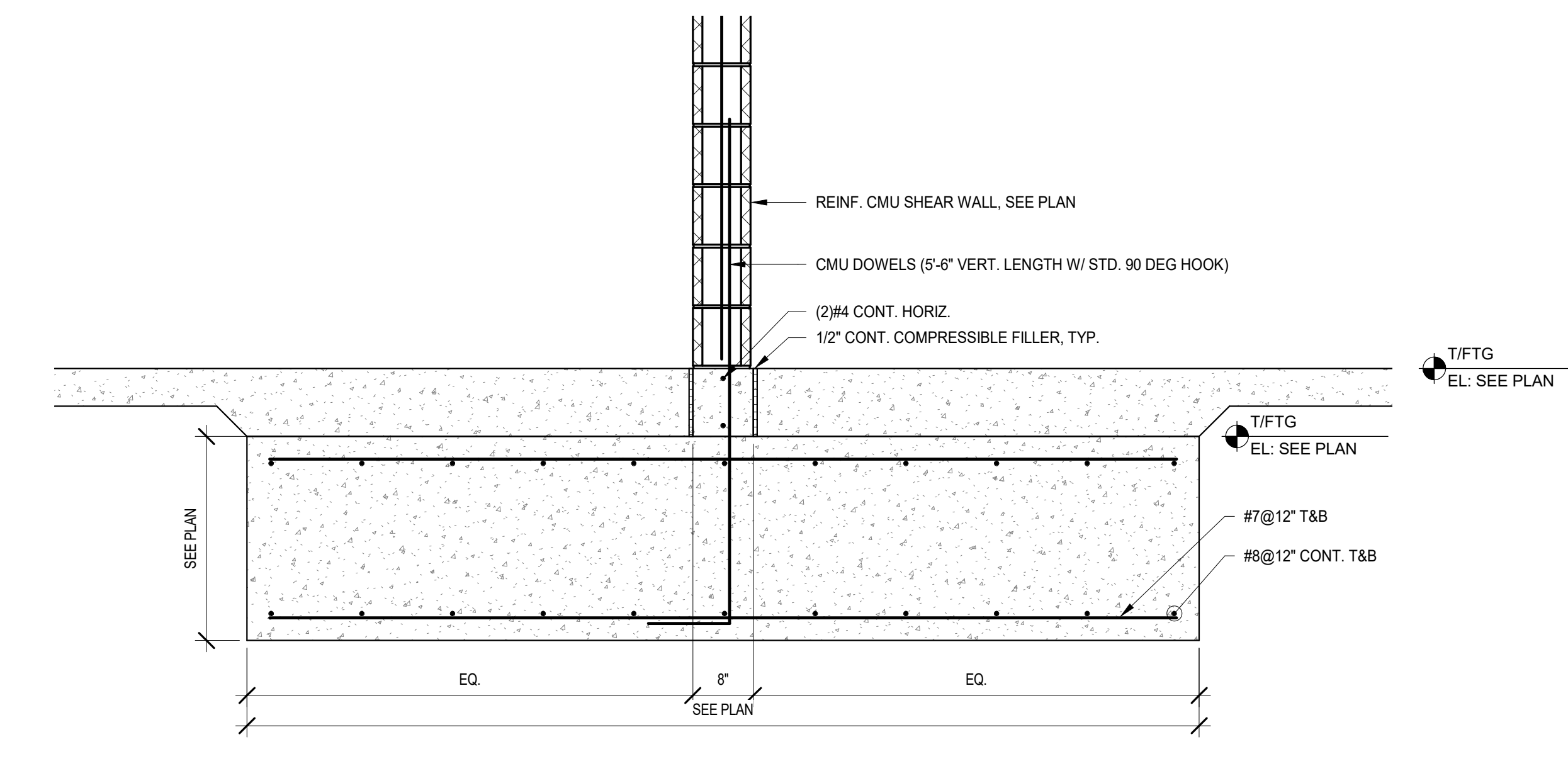
**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
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**2ND FLOOR SLAB EDGE
PLAN - AREA C.1**

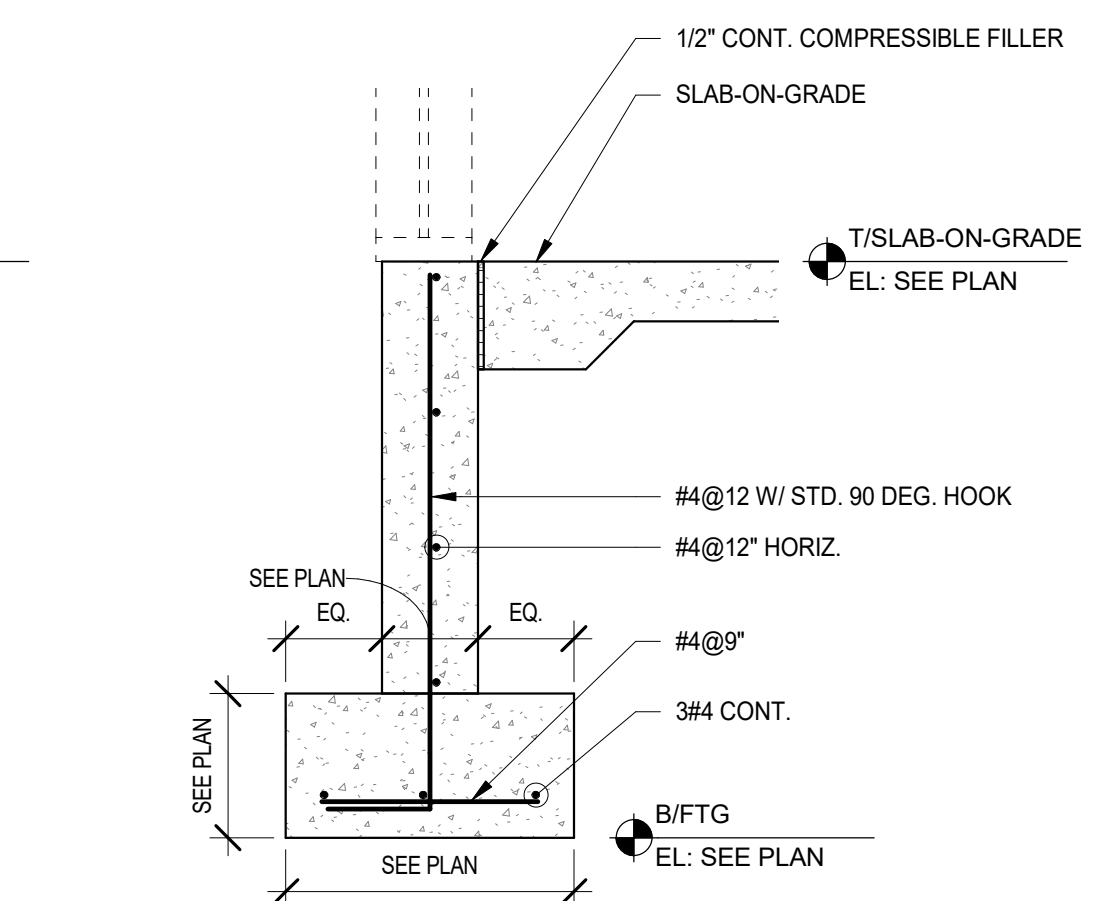
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5274-42
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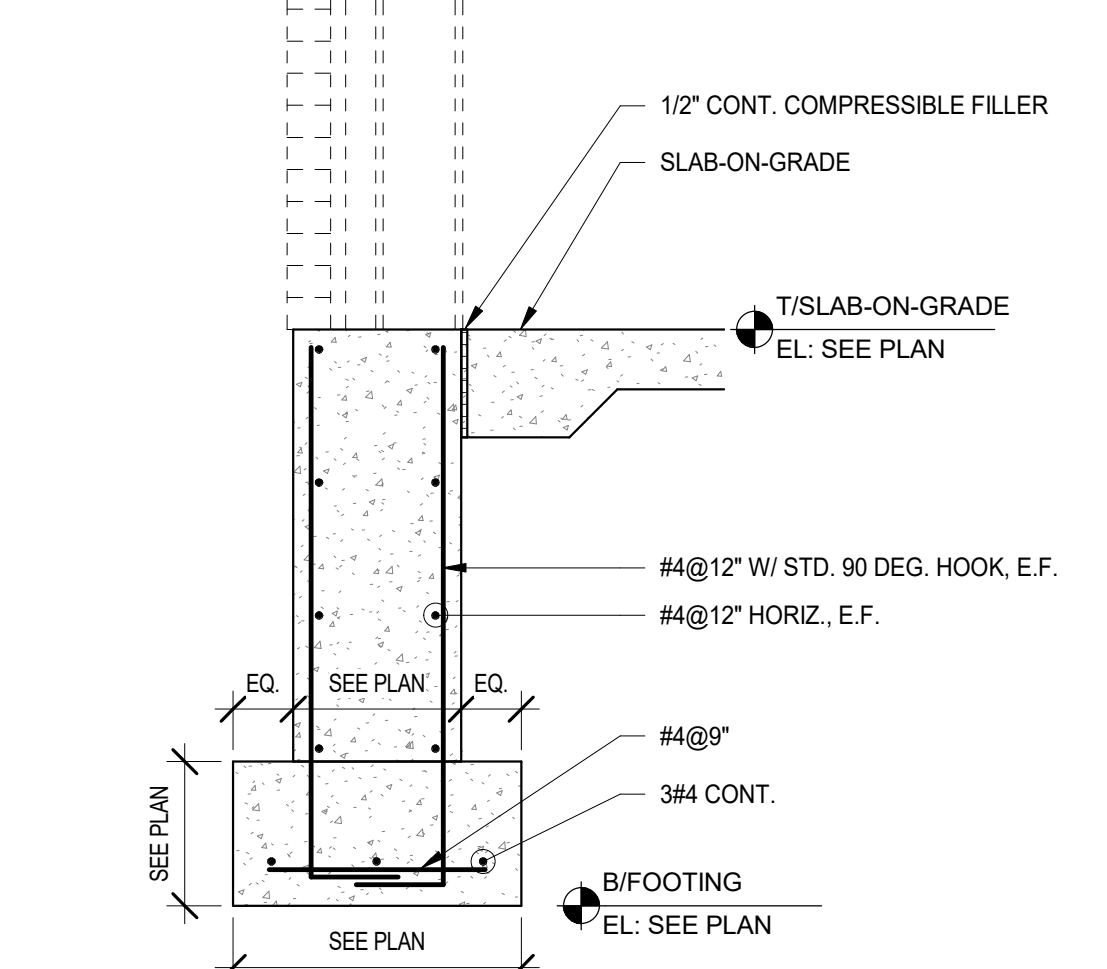
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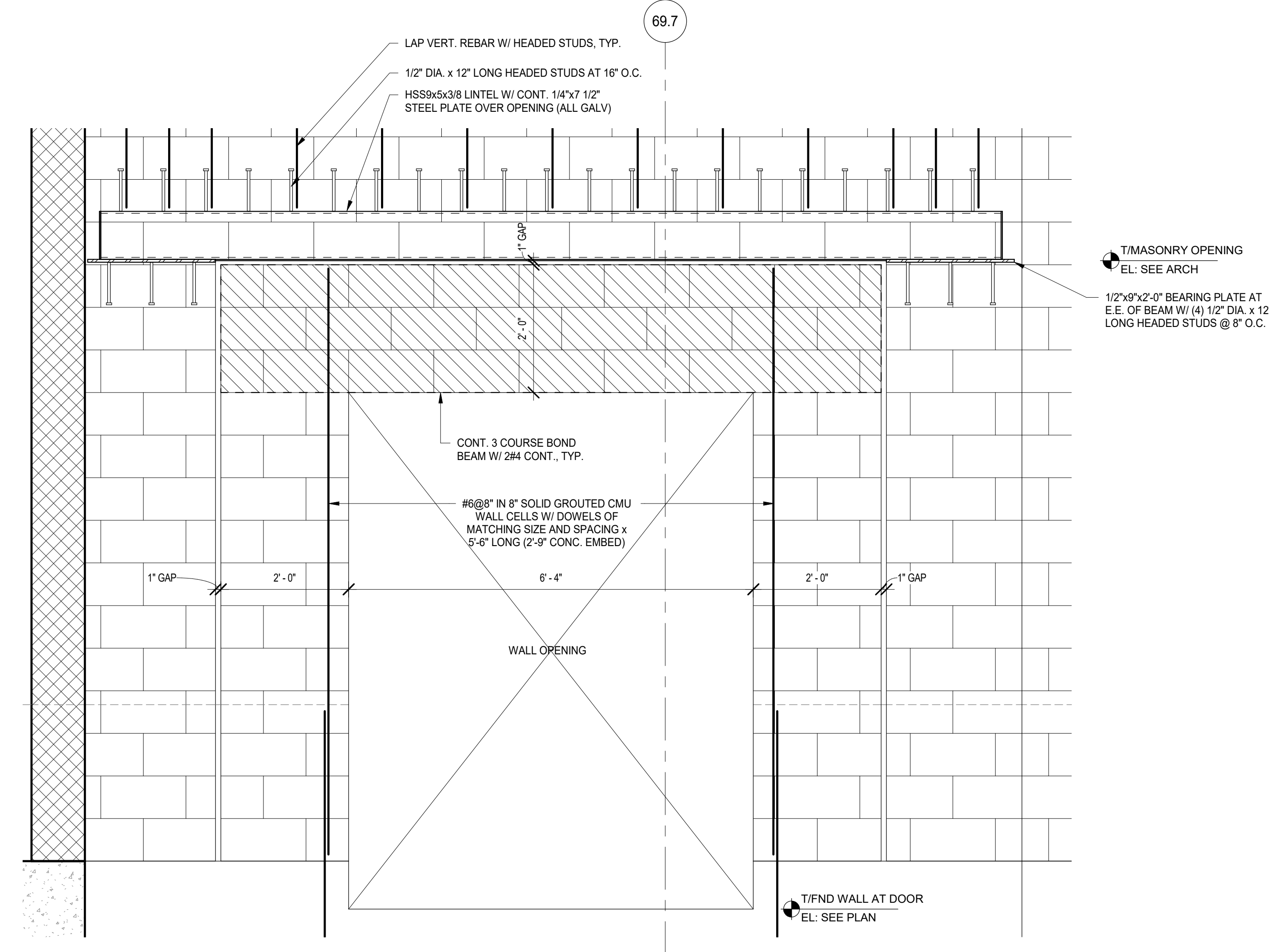
6 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



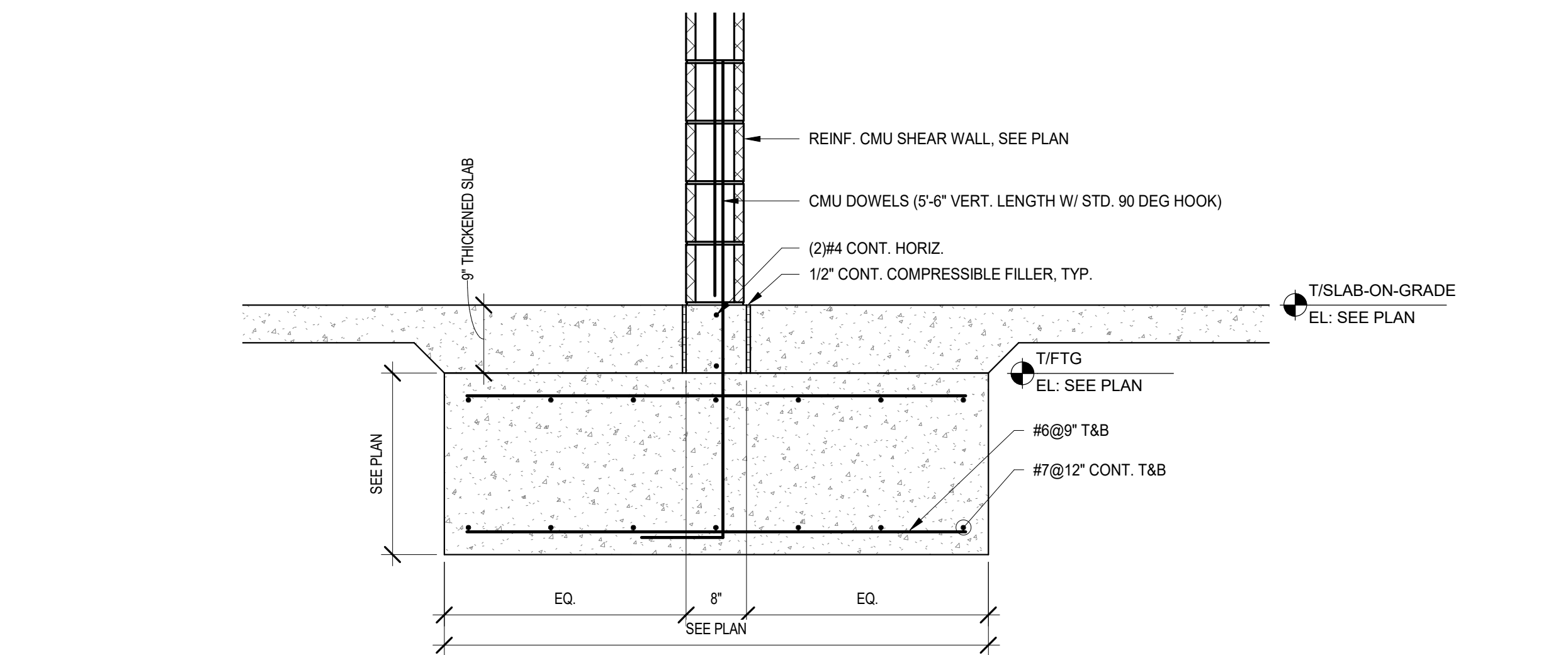
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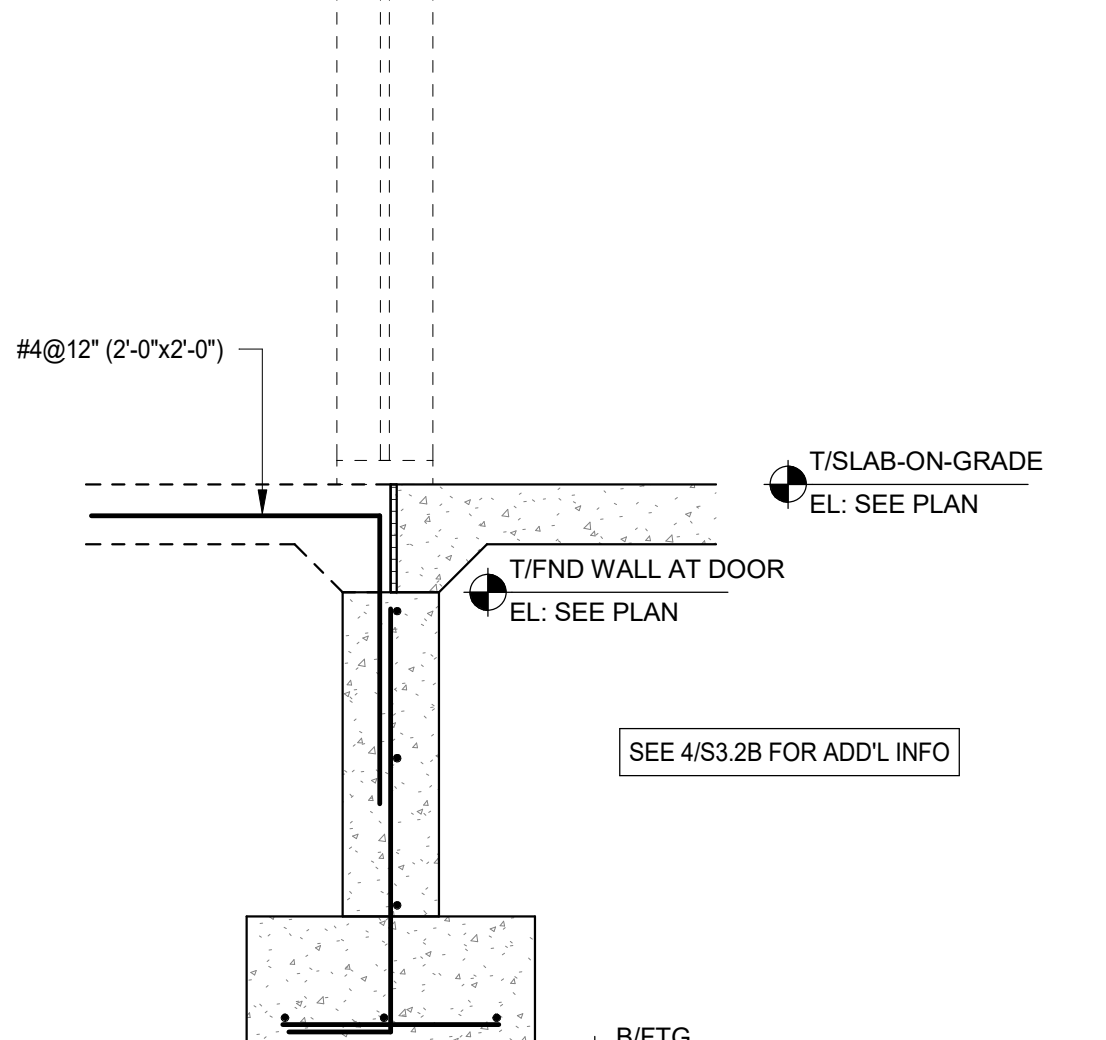
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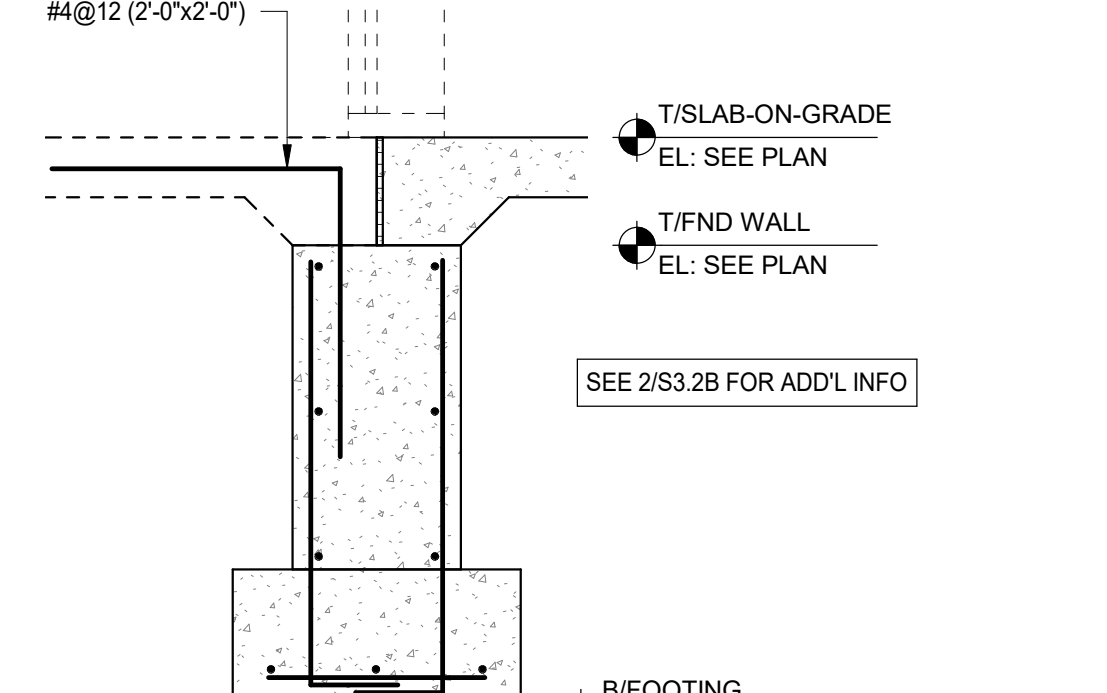
1 CMU FIREWALL ELEVATION
SCALE: 3/4" = 1'-0"



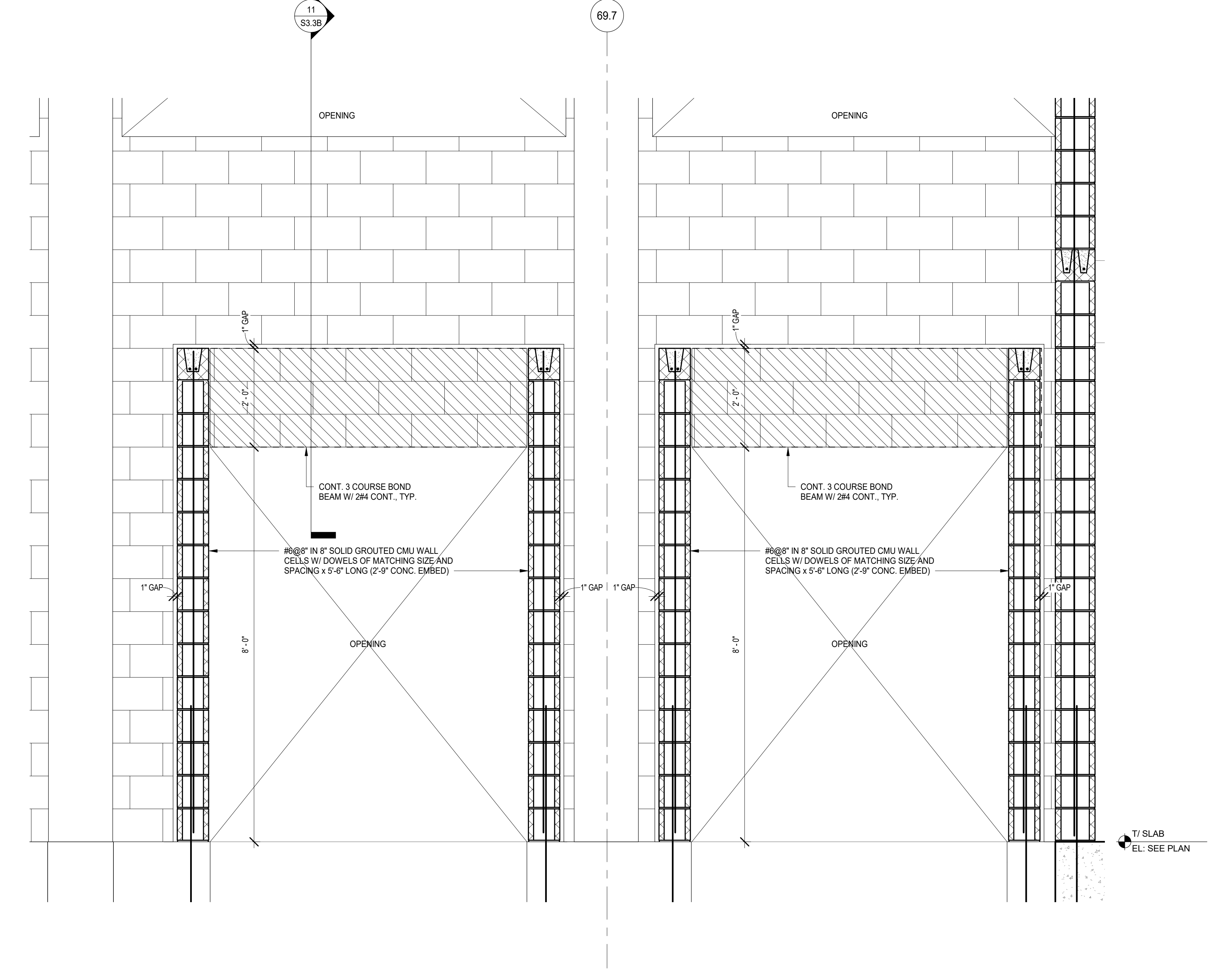
7 FOUNDATION DETAIL
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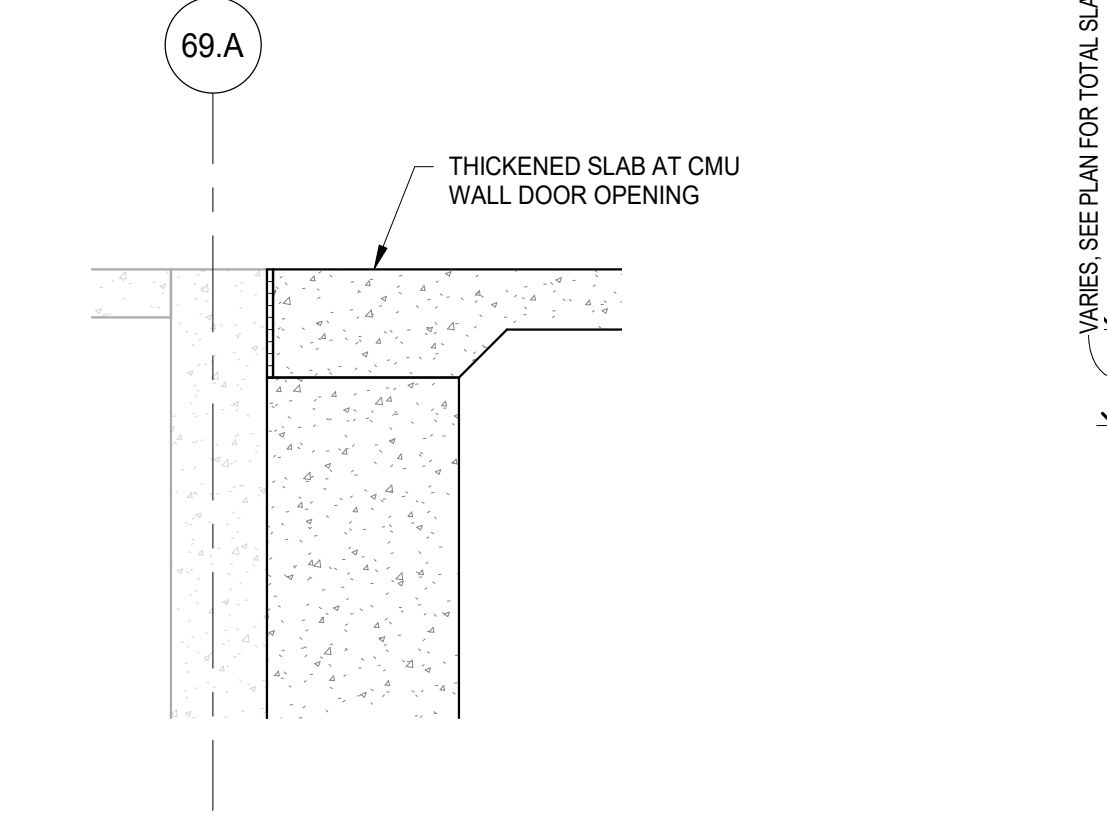
5 FOUNDATION DETAIL
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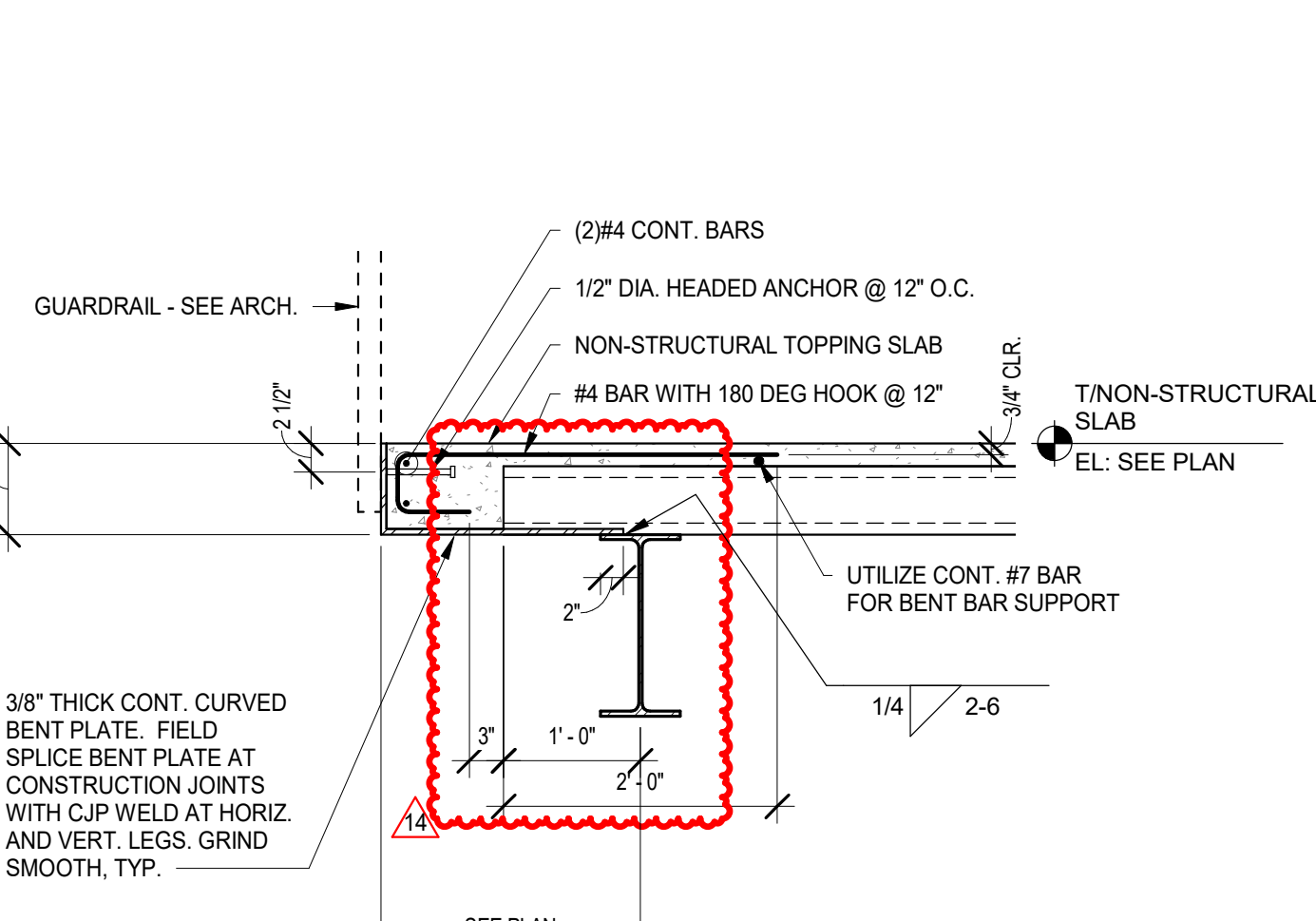
3 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



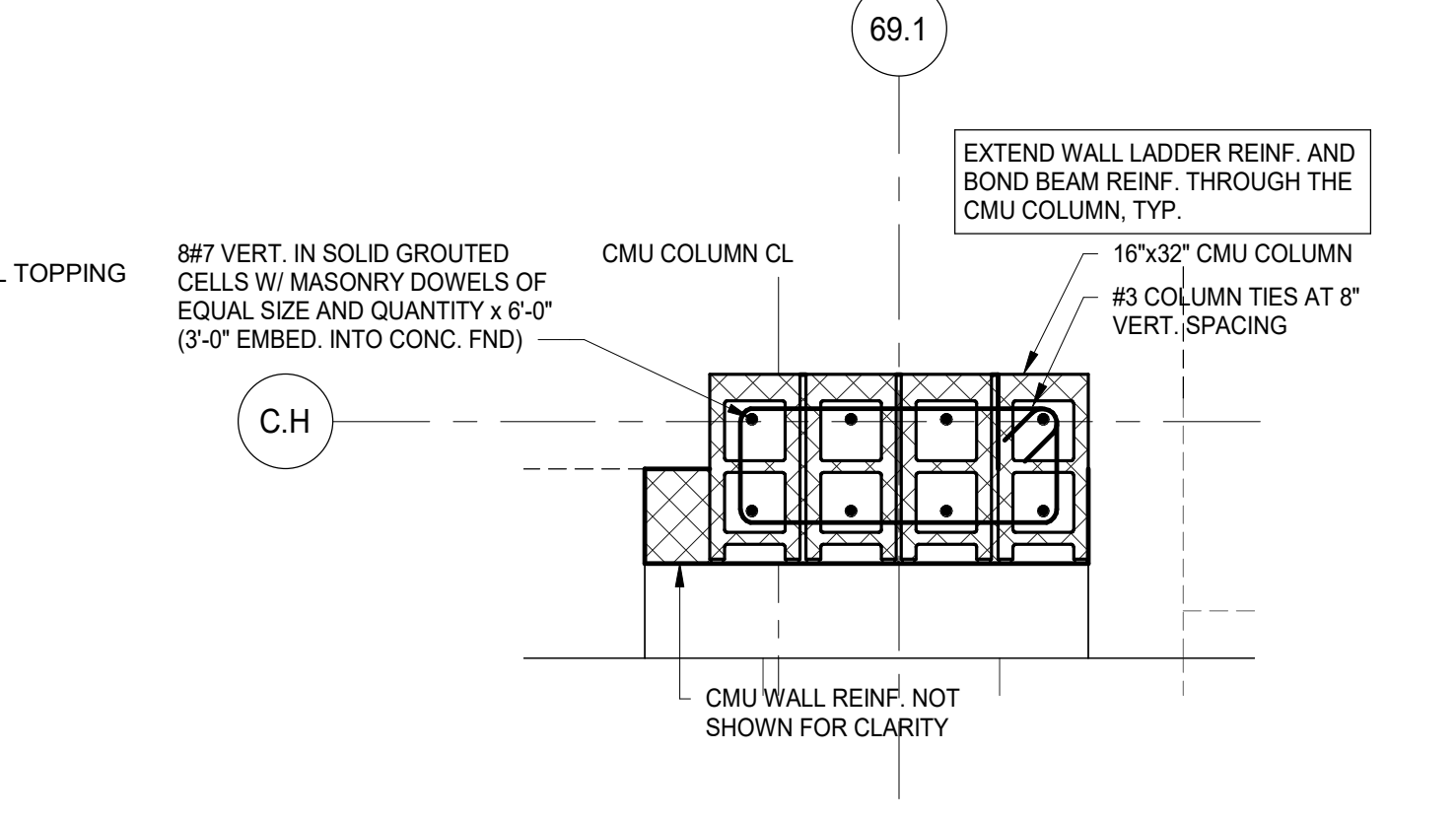
13 CMU FIREWALL ELEVATION
SCALE: 3/4" = 1'-0"



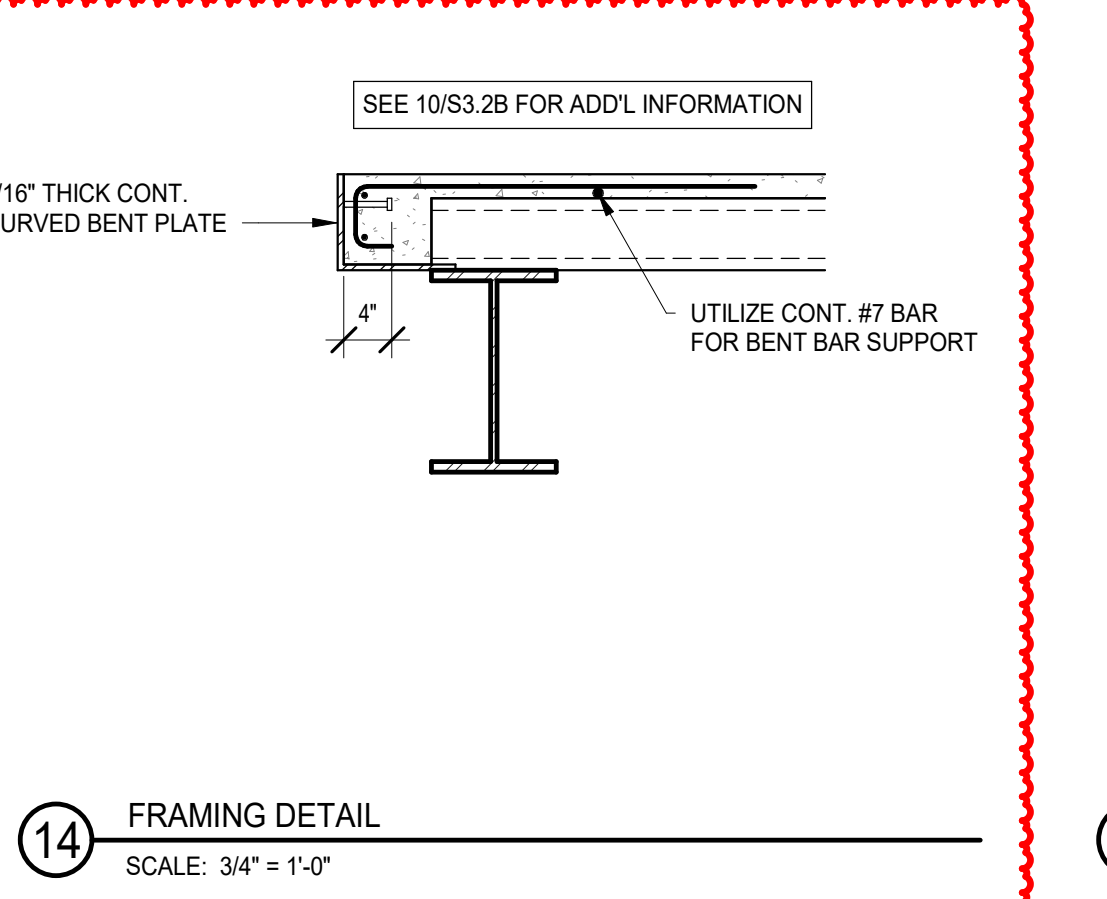
12 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



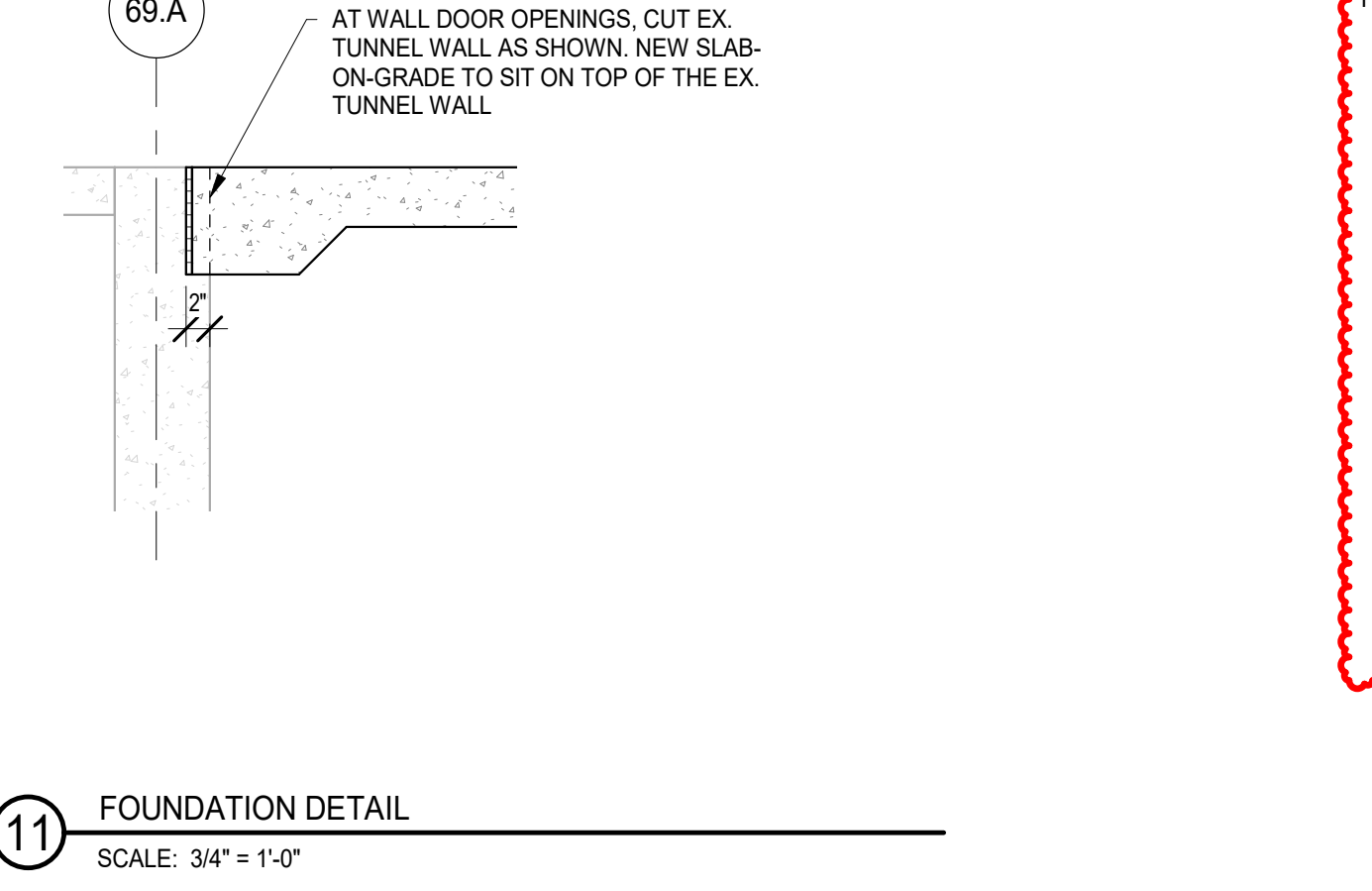
10 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



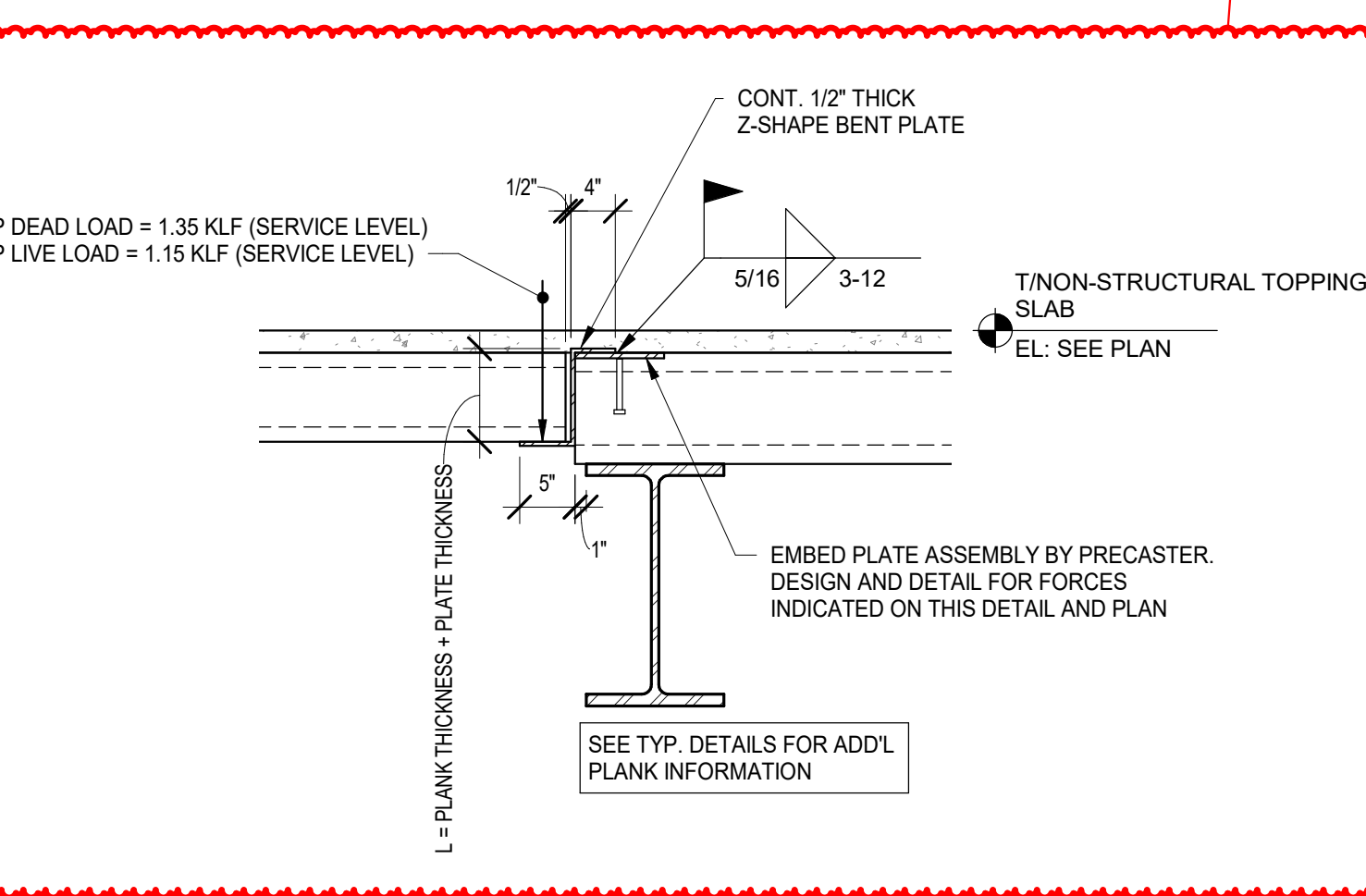
8 CMU COLUMN ENLARGED PLAN VIEW
SCALE: 3/4" = 1'-0"



14 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



11 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



9 FRAMING DETAIL
SCALE: 3/4" = 1'-0"

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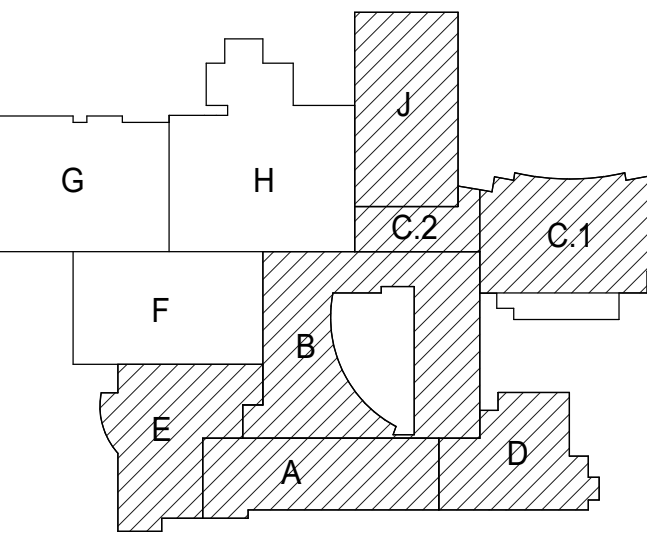
MFP IMPLEMENTATION - SOUTH

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NON-TYPICAL SECTIONS AND DETAILS

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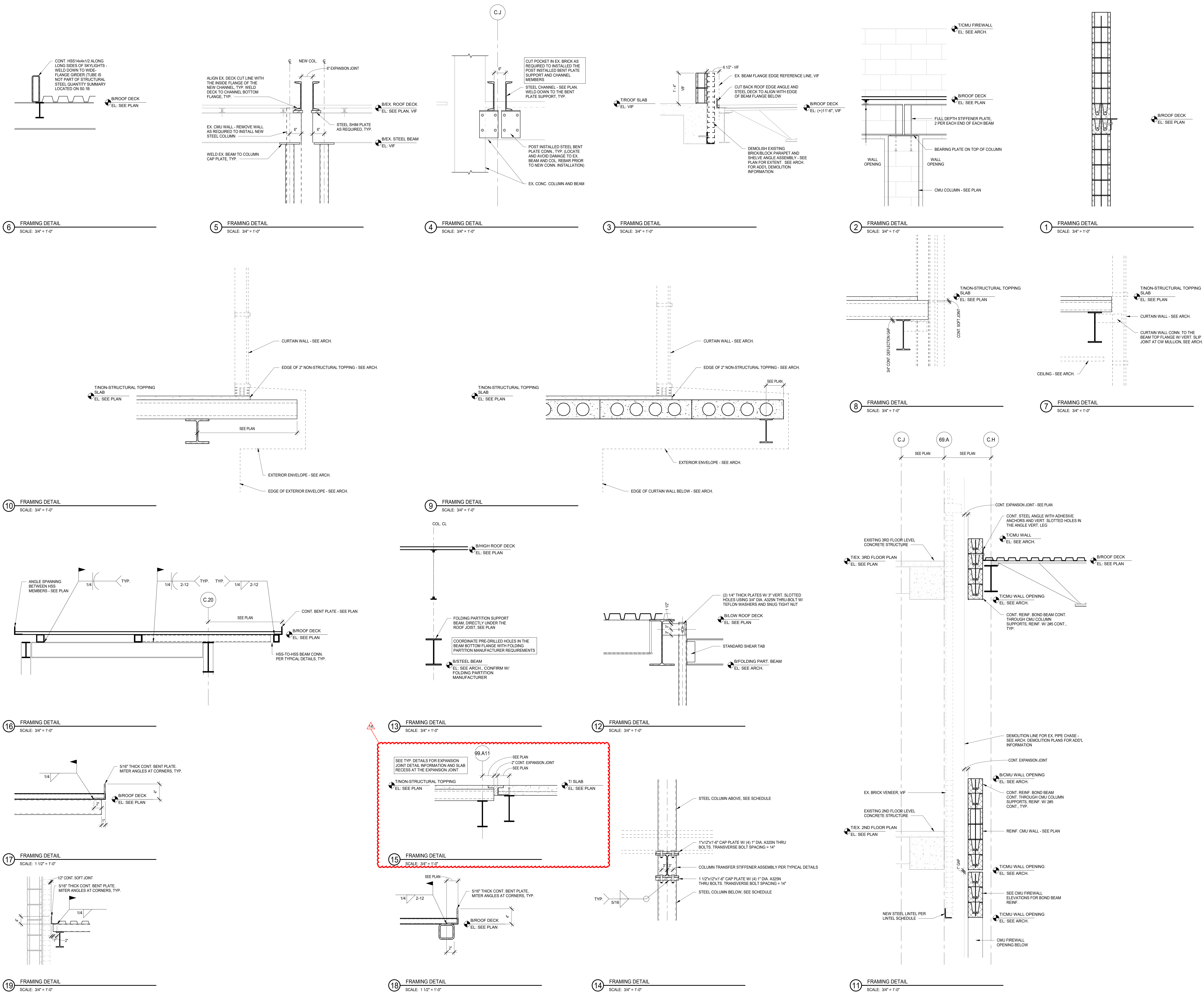
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