

GENERAL NOTES:

- The notes on the drawings are not intended to replace specifications. In addition to general notes. See specifications for requirements.
- Structural drawings shall be used in conjunction with job specifications and architectural, mechanical, electrical, plumbing, and site drawings. Consult, openings, chases, inserts, reglets, sleeves, depressions, and other details not shown on structural drawings.
- All dimensions and conditions must be verified in the field. Any discrepancies shall be brought to the attention of the engineer before proceeding with the affected part of the work.
- Do not scale plans.
- Sections and details shown on any structural drawings shall be considered typical for similar conditions.
- All proprietary products shall be installed in accordance with the manufacturers written instructions.
- The structure is designed to be self supporting and stable after the erection is complete. It is the contractor's sole responsibility to determine erection procedures and sequencing to ensure the safety of the building and its components during erection. This includes the addition of necessary shoring, sheeting temporary bracing, guys or tie-downs. Such material shall remain the property of the contractor after completion of the project.
- All applicable federal, state, and municipal regulations shall be followed, including the federal department of labor occupational safety and health act.

DESIGN LOADS:

- Building code: IBC (2009) International Building Code.
- Design Live Loads: (Ground Snow load = 60 psf)
 Roof 40 psf + drift as applicable
 Floor..... 100 psf
- Design wind loads are based on exposure C using 100 mph basic wind speed.
- Seismic Design Analysis Procedure shall be equivalent Lateral Force Procedure per IBC 2009.

FOUNDATION NOTES:

- Foundations have been designed with a presumptive soil bearing capacity of 2000 psf to be verified by the general contractor in the field. If the allowable soil bearing capacity is less than 2000 psf, the excessive soil bearing pressure could result with foundation settlement and movement of the building structure. L&L Structural Engineering shall not be responsible and held harmless for damages resulting from foundation settlement and movement of the structure resulting from inadequate soil bearing capacity.
- Interior spread footings and exterior strip footings shall be founded on undisturbed native soil or compacted structural fill.
- Exterior strip and spread footings shall be founded a minimum of 4'-0" below finished site grade.
- Slabs on grade shall bear on a minimum of 12" of compacted structural fill or compacted 3/4" crushed stone. If loose or undesirable fills are encountered at the slab subgrade level, they shall be over excavated to the surface of the natural soil and replaced with structural fill. Refer to drawings and specifications for vapor barrier requirements. Moist cure slabs in accordance with ACI.
- Structural fill shall be used at all locations below footings and slabs and adjacent to the foundation walls. Prior to placement of structural fill, remove all topsoil and other unsuitable material. Compacted structural fill shall consist of clean granular material free of organics, loam, trash, snow, ice, frozen soil or any other objectionable material. It shall be well graded within the following limits:

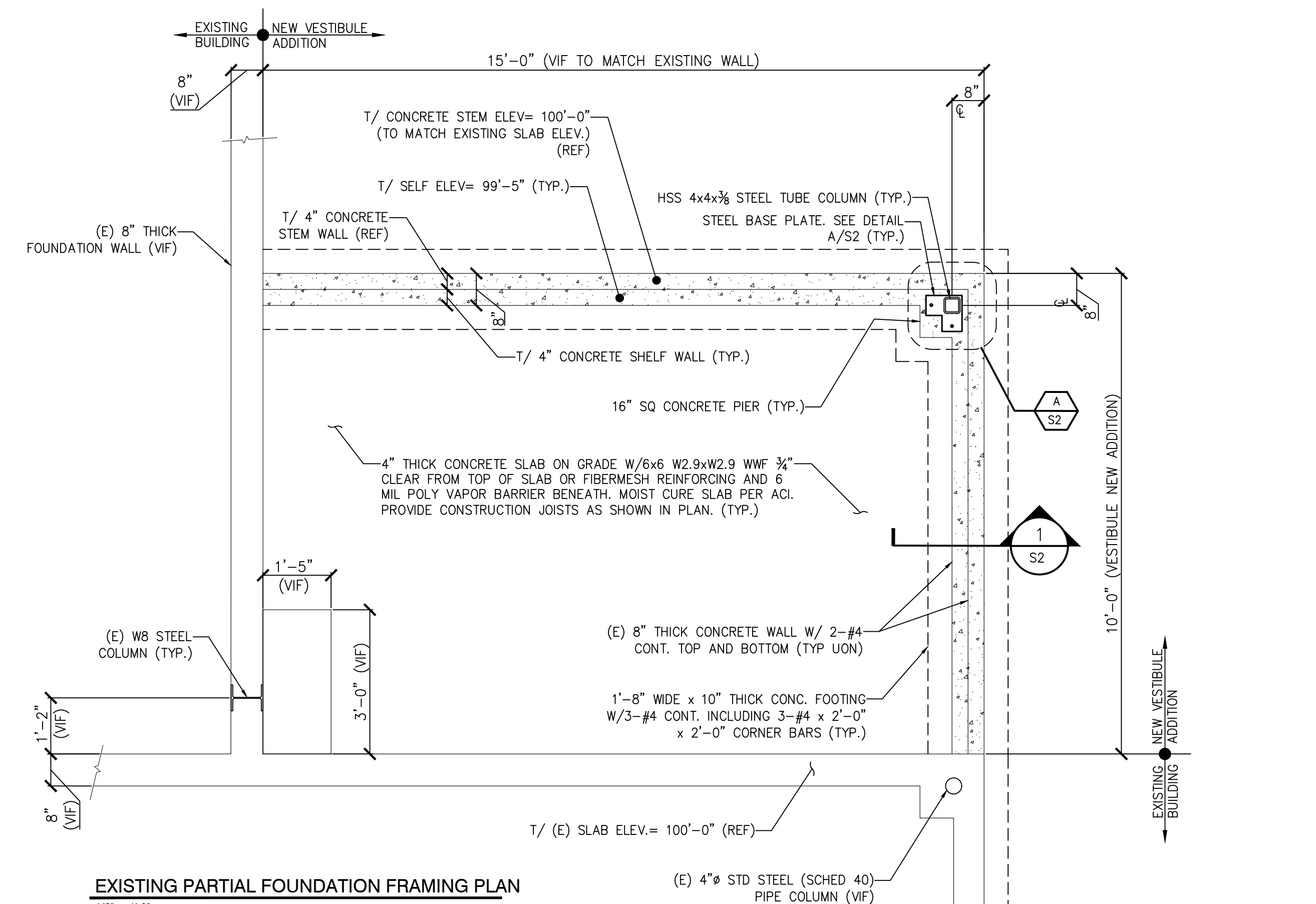
SCREEN OR SIEVE SIZE	PERCENT FINER BY WEIGHT
6 INCH	100
3 INCH	70-100
NO. 4	35-70
NO. 40	5-35
NO. 200	0-5
- Structural fill (or 3/4" crushed stone) beneath slabs shall be placed in layers not exceeding 6 inches in loose measure and compacted by self-propelled compaction equipment at approximate optimum moisture content to a dry density of at least 95% of the maximum in place dry density as determined by the modified proctor test (ASTM D-1557). For structural fill or 100% of the rodded unit weight as determined by ASTM C-29 for 3/4" crushed stone.
- Underdrains shall be installed to positively drain to a suitable discharge point away from the structure.
- Exterior concrete slabs on grade, shall be underlain by at least 4 feet of structural fill meeting gradation and compaction requirements noted above. Reinforce slabs with #4 at 12" each way at center of slab.
- Backfill both sides of foundation walls simultaneously.

CONCRETE NOTES:

- All concrete work shall conform to ACI 318-Latest Edition.
- Concrete strength at 28 days shall be:
 - 3000 psi for footings & piers.
 - 4000 psi for all slabs on grade.
- All concrete shall be air entrained 4% to 6% per the specifications.
- Concrete shall not be placed in water or on frozen ground.
- Concrete materials:
 - Portland Cement: ASTM C 150, Type I or Type II unless otherwise acceptable to Architect. Use one brand of cement throughout project, unless otherwise acceptable to Architect.
 - Normal Weight Aggregates: ASTM C 33. Provide from a single source for exposed concrete. Do not use aggregates containing soluble salts or other substances such as iron sulfides, pyrite, marcasite, or ochre which can cause stains on exposed concrete surfaces.
 - Light Weight Aggregates: ASTM C 330.
 - Water: Potable.
 - Air-Entraining Admixture: ASTM C 260.
 - High-Range Water-Reducing Admixture (Super Plasticizer): ASTM C 494, Type F or Type G containing not more than 1% chloride ions.
 - Fiber reinforcement shall be added and distributed prior to incorporation of Super Plasticizer.
 - Normal range water reducing admixture: ASTM C 494 Type A containing no calcium chloride.
 - Accelerating Admixture: ASTM C 494 Type C or E.
 - Calcium Chloride not permitted.
- Reinforcing bars shall conform to ASTM A615 Grade 60 deformed bars, and shall be detailed, fabricated and erected in accordance with ACI 315-Latest edition.
- Welded wire fabric shall be provided in flat sheets.
- Fiber reinforced concrete shall conform to ASTM C-1116.
- Splices of reinforcing bars shall be in accordance with ACI 318. Splices of WWF shall be 6" minimum.
- Concrete finishes:
 - Slabs: Steel trowel and light broom (non-slip)
- Anchor bolts shall conform to ASTM A36 hot dipped galvanized unless noted otherwise on plan.

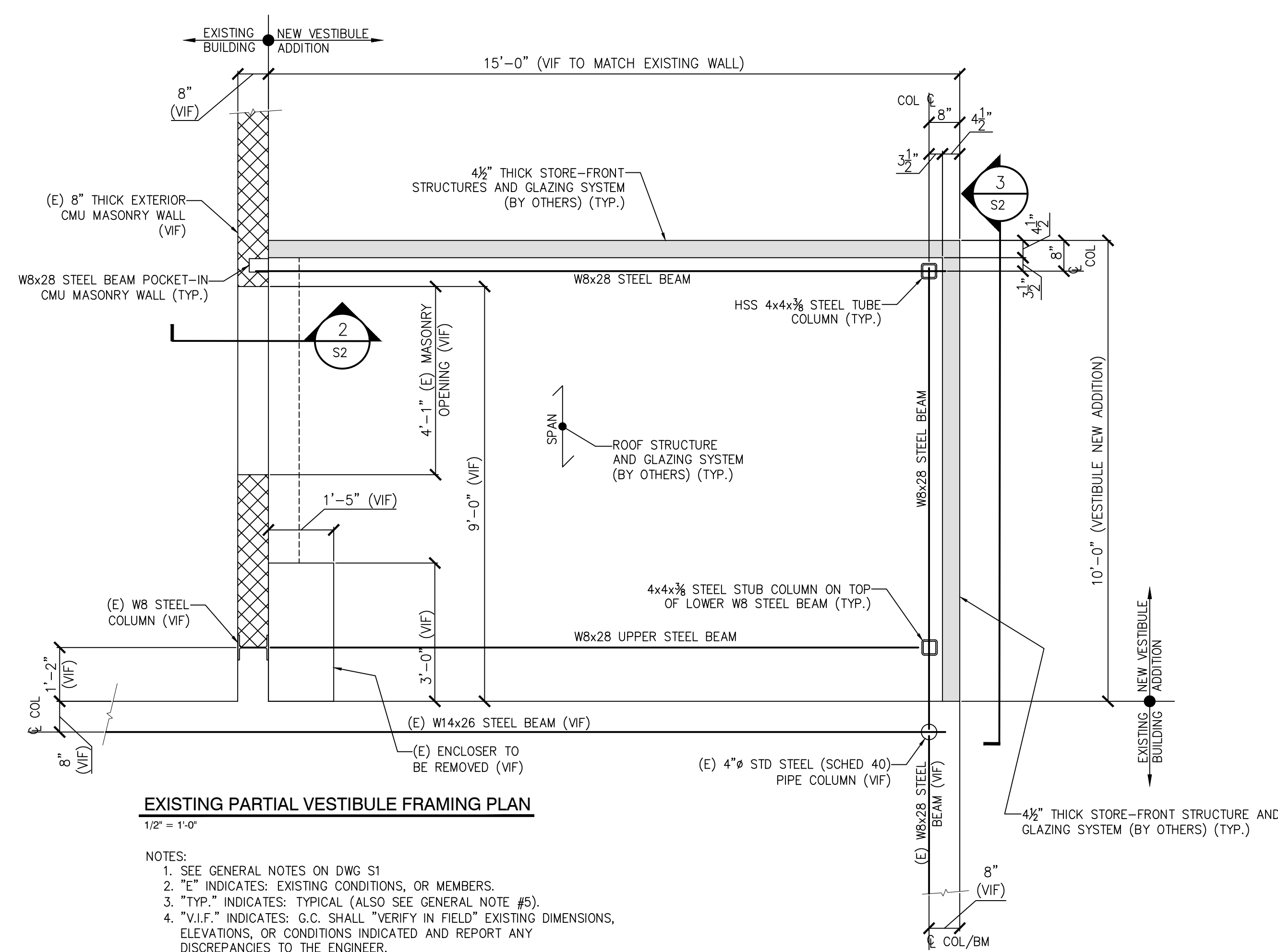
STRUCTURAL STEEL NOTES:

- Structural steel fabrication, erection, and connection design shall conform to AISC "Specification for the design, fabrication, and erection of structural steel"-Ninth edition.
- Structural steel:
 - Structural steel shall conform to ASTM A-36.
 - Structural tubing shall conform to ASTM A-500 GR-B
 - Structural pipe shall conform to ASTM A-53, TYPE E OR S
- The fabricator shall design connections for the reactions shown on the drawings or the maximum end reaction that can be produced by a laterally supported uniformly loaded beam for each given beam size and span.
- Field connections shall be bolted using 3/4" diameter ASTM A325 high strength bolts except where field welding is indicated on the drawings.
- All welding shall conform to AWS D1.1-Latest edition. Welding electrodes shall be E70XX.
- Structural Steel Primer Paint. TNE MEC 10-99 Alkyd rust inhibitive primer, 2.0 to 3.5 mils dry thickness, or approved alternate.
- Structural Steel Top Coat for steel permanently exposed to view. TNE MEC series 2 TNE MEC-GLOSS Enamel, 3.0 to 5.0 mils dry thickness, or approved alternate.
- Complete shop drawings and schedules of all structural steel shall be prepared by the contractor and submitted to the engineer for review prior to commencement of that portion of the work. All accessories must be shown on the shop drawings. Submit (2) black line prints to the Engineer/Architect.



EXISTING PARTIAL FOUNDATION FRAMING PLAN
1/2" = 1'-0"

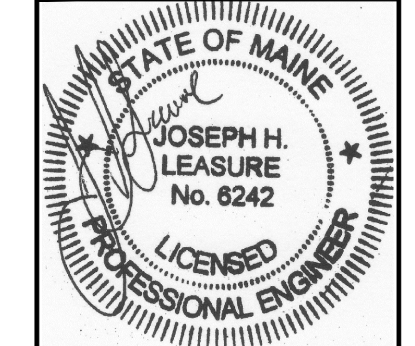
- NOTES:
- SEE GENERAL NOTES ON DWG S1
 - "E" INDICATES: EXISTING CONDITIONS, OR MEMBERS.
 - "TYP." INDICATES: TYPICAL (ALSO SEE GENERAL NOTE #5).
 - "V.I.F." INDICATES: G.C. SHALL "VERIFY IN FIELD" EXISTING DIMENSIONS, ELEVATIONS, OR CONDITIONS INDICATED AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
 - "U.O.N." INDICATES: UNLESS OTHERWISE NOTED.



EXISTING PARTIAL VESTIBULE FRAMING PLAN
1/2" = 1'-0"

- NOTES:
- SEE GENERAL NOTES ON DWG S1
 - "E" INDICATES: EXISTING CONDITIONS, OR MEMBERS.
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 - "U.O.N." INDICATES: UNLESS OTHERWISE NOTED.

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rev.	date	description	designed by	checked by	scale	plot date	project #
A	04/12/17	FOR PERMITS & COORDINATION	JHL	JHL	AS NOTED	04/07/2017	2017-062

TIME WARNER CABLE
 118 JOHNSON RD
 SOUTH PORTLAND, ME
 VESTIBULE ADDITION
 GENERAL NOTES, FOUNDATION & ROOF FRAMING PLAN

S1

**PRELIMINARY
NOT FOR CONSTRUCTION**

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