

DATE	11.30.2011
PROJECT NO.	2011.021
CAD REFERENCE NO.	AutoCAD 2011
PLOT REFERENCE NO.	NONE
DRAWING SCALE	SEE DRAWING

REVISIONS	MARK	DATE	DESCRIPTION
		12-20-11	CSI REVIEW
		01-12-12	ISSUE FOR PERMIT



PROJECT TITLE _____

ZIP _____

THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
ILLINOIS 8400
SWC OF 83RD STREET AND LEMONT ROAD
DARIEN, ILLINOIS

SHEET TITLE _____

FOUNDATION PLAN

SHEET NUMBER _____

S1.1

Received 1/16/12
By Primax Construction, Inc.

PLAN NOTES:

1. FINISHED FLOOR ELEVATION 0'-0" UNLESS NOTED OTHERWISE (U.N.O).
2. TOP OF FOOTING ELEVATION IS -3'-0" U.N.O.
3. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DOOR OPENINGS.
4. ALL TURNED DOWN SLAB DIMENSIONS AT ENTRY AREAS TO BE VERIFIED W/ ARCH. DRAWINGS.
5. SAW CUT CONTROL JOINT IN LINE WITH EXPANSION JOINT ACROSS ALL EXTERIOR DOOR OPENINGS. SEE SECTION 4/S1.2.
6. THE OUTSIDE FACE OF 6" CMU LINES UP WITH THE OUTSIDE FACE OF EXTERIOR WALL FRAMING (FOR ALTERNATE MASONRY FNDTN).

GENERAL NOTES:

REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, CURBS, INSERTS, BLOCK-OUTS, ETC. NOT HEREIN INDICATED. ALL SLEEVES OR OPENINGS SHALL BE APPROVED BY THE ARCHITECT.

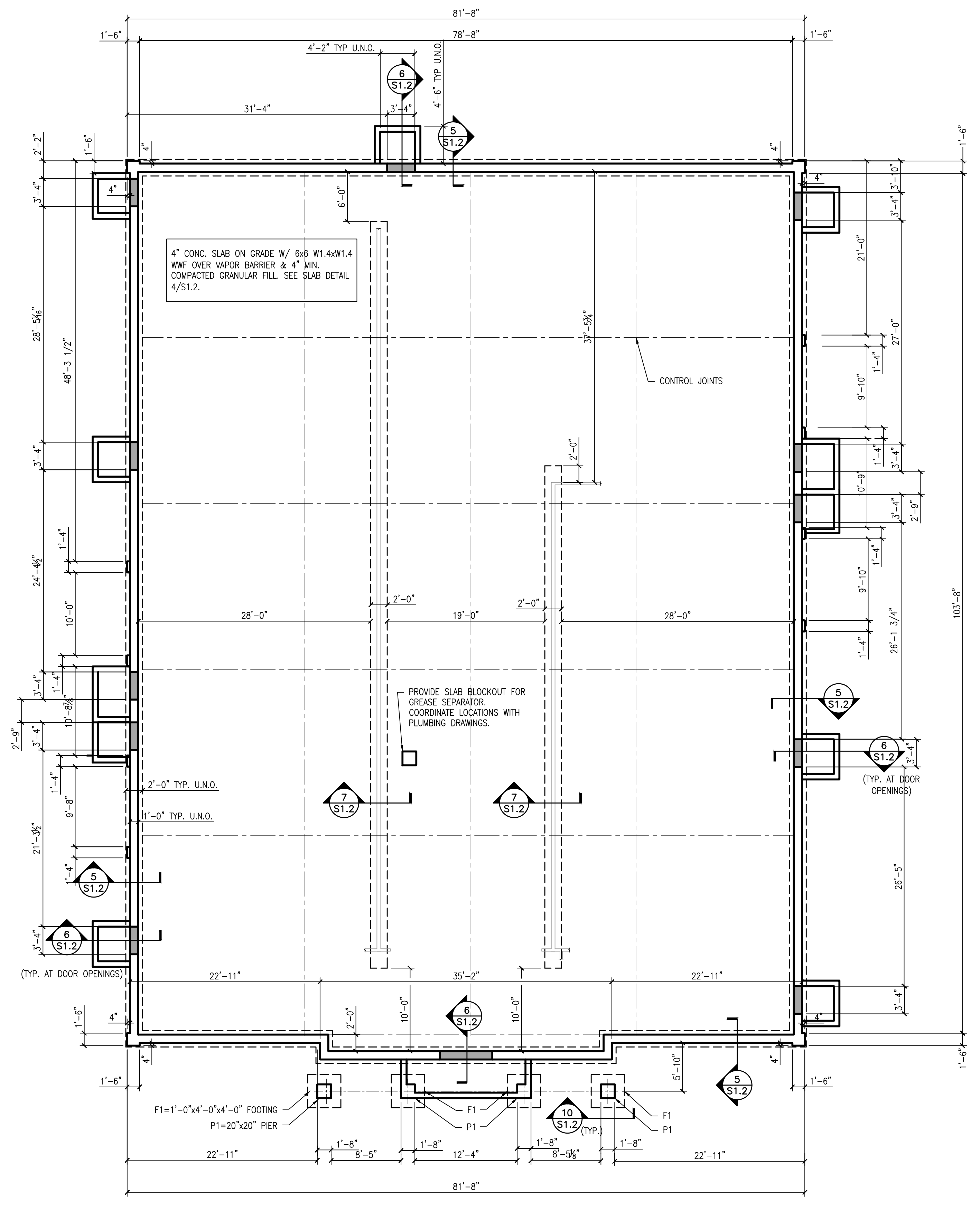
THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF DOWNSPOUT LOCATIONS. THE DOWNSPOUT TILE ADAPTERS ARE TO BE SET FLUSH WITH TOP OF SIDEWALK AND TIGHT AGAINST MASONRY VENEER. SEE SECTION 4/S1.2.

EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 3'-6" BELOW FINISH GRADE AND SHALL BEAR ON UNDISTURBED SOIL.

REFER TO SOIL REPORT FOR ALLOWABLE SOIL BEARING PRESSURES.

REPORT (WITHIN 24 HOURS) ANY UNUSUAL SOIL CONDITIONS TO THE ARCHITECT.

FOUNDATION EXCAVATIONS SHALL BE COMPACTED TO A LEVEL SURFACE (OR FORMED WHERE SOIL CONDITIONS DO NOT ALLOW). THE EXCAVATION SHALL BE PROTECTED FROM WEATHER IF CONCRETE PLACEMENT DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION OF THE FOOTING.



1 FOUNDATION PLAN
SCALE: 1/8"=1'-0"



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DESIGN DATA:

BUILDING CODE:	IBC 2006
ROOF LOADS:	
LIVE:	30 PSF
DEAD:	20 PSF
SNOW DRIFT:	28 PSF
ATTIC LIVE LOAD:	50 PSF
MECHANICAL LOADS:	SEE MECHANICAL DRAWINGS
WIND:	WIND SPEED: 90 MPH

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITION. THESE DOCUMENTS SHALL BE AVAILABLE IN THE FIELD OFFICE.
- EXCEPT FOR NON-STRUCTURAL TOPPING OR WHERE OTHERWISE INDICATED, CONCRETE TYPES AND MINIMUM 28-DAY COMPRESSIVE STRENGTHS SHALL BE 4000 PSI REGULAR WEIGHT.
- CEMENT SHALL CONFORM TO ASTM C150 TYPE I. USE ONLY ONE BRAND OF CEMENT FOR ALL EXPOSED TO VIEW CONCRETE. AGGREGATES SHALL CONFORM TO ASTM C33 (REGULAR WEIGHT). ALL CONCRETE SHALL CONTAIN AN APPROVED WATER REDUCING ADMIXTURE. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, OR GRADE 75 FOR #11 BARS. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC TIPPED.
- CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, REVEALS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, ETC.
- ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, LATEST EDITION FOR A CLASS B SPLICE, BUT IN NO CASE SHALL BE LESS THAN 57 BAR DIAMETERS, UNLESS NOTED OTHERWISE. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIES SECURELY. WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.
- ALLOW A MINIMUM OF THREE (3) HOURS BETWEEN PLACEMENT OF CONCRETE FOR COLUMNS, WALLS OR PIERS AND PLACEMENT OF CONCRETE ON THE ADJACENT FLOOR.
- UNLESS NOTED OTHERWISE, ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS SHALL BE REINFORCED WITH AT LEAST ON (1) LAYER OF 6x6 W4xW4 W.W.F. SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS OF PADS.
- CONSTRUCTION JOINTS IN ALL FOUNDATION WALLS SHALL BE NOT FURTHER APART THAN 40 FEET IN ANY DIRECTION. ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED, CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. SEE DRAWINGS FOR CONSTRUCTION JOINT DETAILS.
- PLACE ALL SLABS-ON-GRADE WITH AN APPROVED PATTERN AND SEQUENCE OF CONSTRUCTION AND CONTROL JOINTS TO MINIMIZE SHRINKAGE CRACKS. THE MAXIMUM SPACING BETWEEN JOINTS SHALL BE 15 FEET. A SUGGESTED ARRANGEMENT AND DETAILS ARE SHOWN ON THE DRAWINGS.
- CONCRETE TESTING WILL BE PERFORMED BY THE OWNER'S TESTING LABORATORY IN ACCORDANCE WITH ACI 301 LATEST EDITION CHAPTER 16, EXCEPT AS FOLLOWS: FOR COMPRESSIVE STRENGTH TEST, TAKE ONE SET OF FOUR (4) SPECIMENS FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. TEST ONE (1) SPECIMEN AT 7 DAYS, TWO (2) SPECIMENS AT 28 DAYS, AND KEEP ONE IN RESERVE.

LINTEL NOTES:

- LINTELS SHALL BE PROVIDED FOR ALL OPENINGS AS INDICATED ON THE DRAWINGS. IN ADDITION, LINTELS ARE REQUIRED FOR MECHANICAL, ELECTRICAL OR PLUMBING OPENING IN A MASONRY WALL WITH A WIDTH GREATER THAN 12".
- LINTELS SHALL HAVE A MINIMUM BEARING OF 8 INCHES FOR SPANS UP TO 8'-0" AND 16" FOR SPANS GREATER THAN 8'-0" UNLESS NOTED. LINTELS IN NON-LOAD BEARING WALLS SHALL BE OF THE SIZES LISTED BELOW.
- STEEL LINTELS SHALL BE USED FOR ALL BRICK OPENINGS. CMU OPENINGS IN NON-LOAD BEARING WALLS MAY BE SPANNED WITH EITHER A STEEL LINTEL OR MASONRY LINTEL BLOCK AT THE CONTRACTOR'S OPTION. MASONRY LINTEL INFORMATION LEFT BLANK INDICATES THAT A STEEL LINTEL IS REQUIRED. FOR OPENINGS 2'-0" OR LESS, PROVIDE 3/8" PLATE x WALL THICKNESS LESS 1", BEAR 8" EACH END.

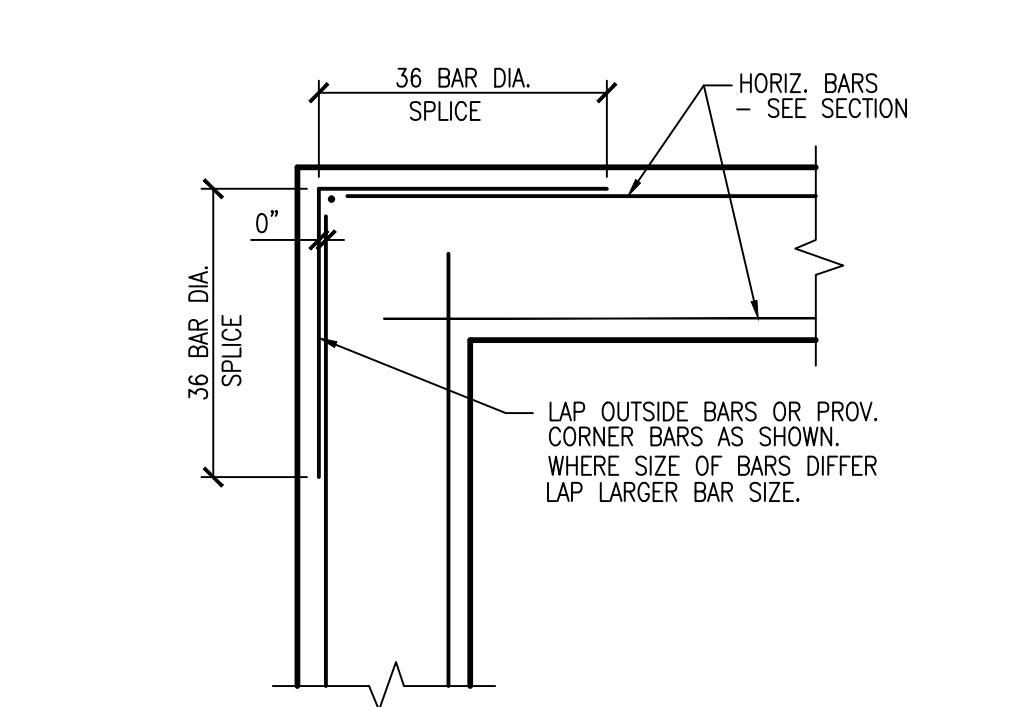
4" WALL SPAN	STEEL LINTEL
2'-0" - 4'-0"	L 3x3x3/8
4'-0" - 6'-0"	L 5x3x3/8 (LLV)
6'-0" - 8'-0"	L 6x3x3/8 (LLV)
8'-0" - 11'-0"	L 6x3x3/8 (LLV)
11'-0" - 14'-0"	L 8x4x1/2 (LLV)

MISCELLANEOUS NOTES:

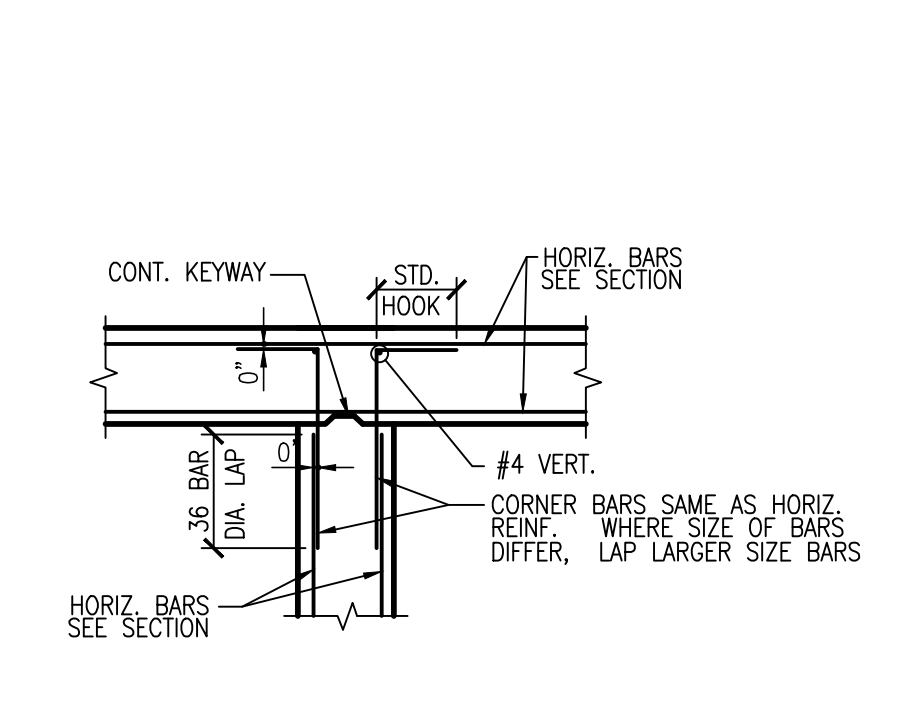
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS OF ALL DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.
- NO OPENINGS, OTHER THAN THOSE SHOWN ON DESIGN DRAWINGS AND APPROVED SHOP DRAWINGS, SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- OPENINGS OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND DIMENSIONS OF THOSE OPENINGS. PROVIDE REINFORCING AROUND OPENINGS PER TYPICAL DETAILS SHOWN ON STRUCTURAL DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR SHALL FURNISH ALL TEMPORARY BRACING AND/OR SUPPORTS REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
- THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS AND AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND / OR SPECIFICATIONS WILL BE CORRECTED, OR A WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.

STRUCTURAL MASONRY NOTES:

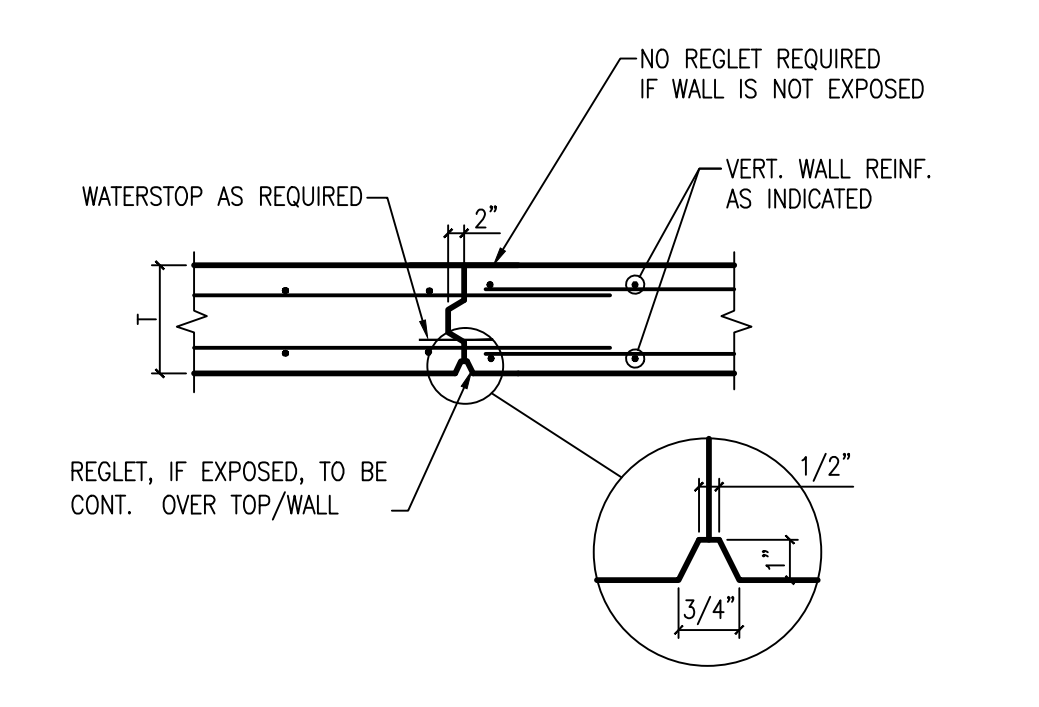
- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ASCE 6/TMS 602, LATEST EDITION.
- MASONRY UNITS:
 - HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1, WITH A MINIMUM ULTIMATE STRENGTH (f'm) OF 1500 PSI ON THE NET SECTION.
 - MORTAR: ALL MORTAR SHALL BE PORTLAND CEMENT / LIME AND CONFORM TO ASTM C270. MORTAR SHALL BE TYPE N UNLESS NOTED OTHERWISE. MORTAR BELOW GRADE SHALL BE TYPE S.
 - GROUT: GROUT FOR REINFORCED LOAD BEARING MASONRY SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
 - REINFORCING BARS: REINFORCING BARS FOR REINFORCED MASONRY SHALL CONFORM TO ASTM A615, GRADE 60.
- VERTICAL CELLS TO BE FILLED WITH GROUT SHALL BE ALIGNED TO PROVIDE A CONTINUOUS UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON THE PLANS. CELLS WHICH WILL CONTAIN VERTICAL REINFORCEMENT SHALL HAVE A MINIMUM OF TWO (2) INCH CLEAR OPENING.
- GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE FLUID AND PLACED BY ACCEPTABLE PRESSURE GROUTING PROCEDURES.
- GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE PLACED IN A MAXIMUM FOUR (4) FOOT LIFTS AND CONSOLIDATED IN PLACE BY VIBRATION OR OTHER METHODS WHICH INSURE COMPLETE FILLING OF THE CELLS. ALL CELLS CONTAINING REINFORCING BARS AND/OR STUDS SHALL BE FULLY GROUTED.
- HOLLOW UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS EXCEPT THAT WEBS SHALL ALSO BE BEDDED WHERE THEY ARE ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT, IN THE STARTING COURSE ON FOOTINGS AND SOLID FOUNDATION WALLS AND IN NON-REINFORCED OR GROUTED PIERS, PILASTERS AND COLUMNS.
- SOLID MASONRY UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS.
- POINTS OF BEARING SHALL BE ON THREE (3) COURSES OF SOLID MASONRY OR THREE (3) COURSES OF HOLLOW MASONRY GROUTED SOLID 32" LONG UNLESS NOTED OTHERWISE.
- ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHER TRADES, SHALL BE DONE WITH MASONRY SAWS.
- CHASES SHALL BE BUILT INTO NEW WALLS, NOT CUT IN. CHASES SHALL BE PLUMB AND SHALL BE A MINIMUM OF ONE (1) MASONRY UNIT LENGTH FROM JAMBS OF WALL OPENINGS. NO CHASES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED WITHOUT PRIOR REVIEW OF THE ARCHITECT/ENGINEER.
- REINFORCED MASONRY:
 - ALL WALLS AND PIERS SHALL HAVE HORIZONTAL JOINT REINFORCEMENTS AT 16" O.C. CONSISTING OF TWO (2) 9 GAGE RODS WITH 9 GAGE CROSS TIES AT 16" O.C. GALVANIZED WITH 0.8 OZ ZINC COATING, ASTM A116, CLASS 3 (TWO RODS IN C.M.U. AND ONE ROD IN FACE BRICK).
 - THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL BARS EXCEPT IN COLUMNS SHALL BE EQUAL TO THE NOMINAL DIAMETER OF THE BAR.
 - VERTICAL REINFORCEMENT SHALL BE LAP SPLICED A MINIMUM OF 48 BAR DIAMETERS (NOT LESS THAN 2'-0") WHERE REQUIRED.
 - ALL BARS SHALL BE COMPLETELY EMBEDDED IN GROUT. ALL BARS SHALL HAVE A COVERAGE OF MASONRY NOT LESS THAN:
 - 2" FOR BARS LARGER THAN #5
 - 1 1/2" FOR #5 BARS AND SMALLER



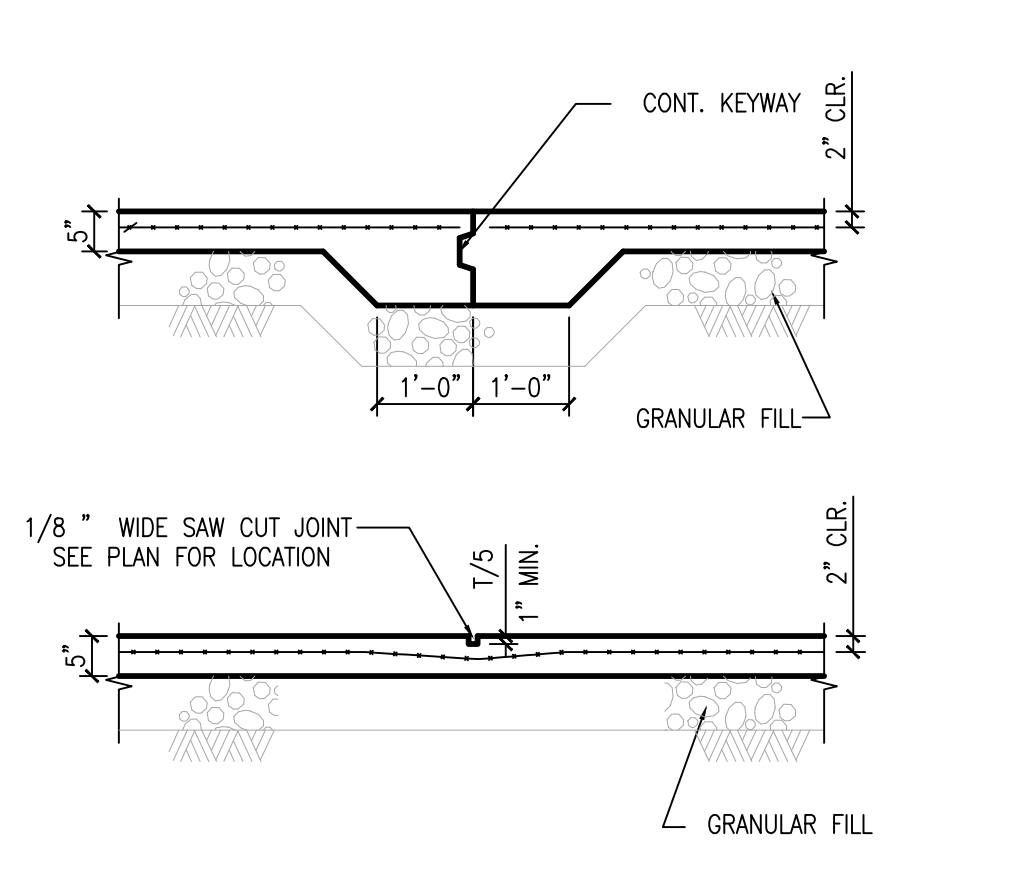
1 CORNER BAR REIN. AT CONC WALLS
SCALE: 1/2"=1'-0"



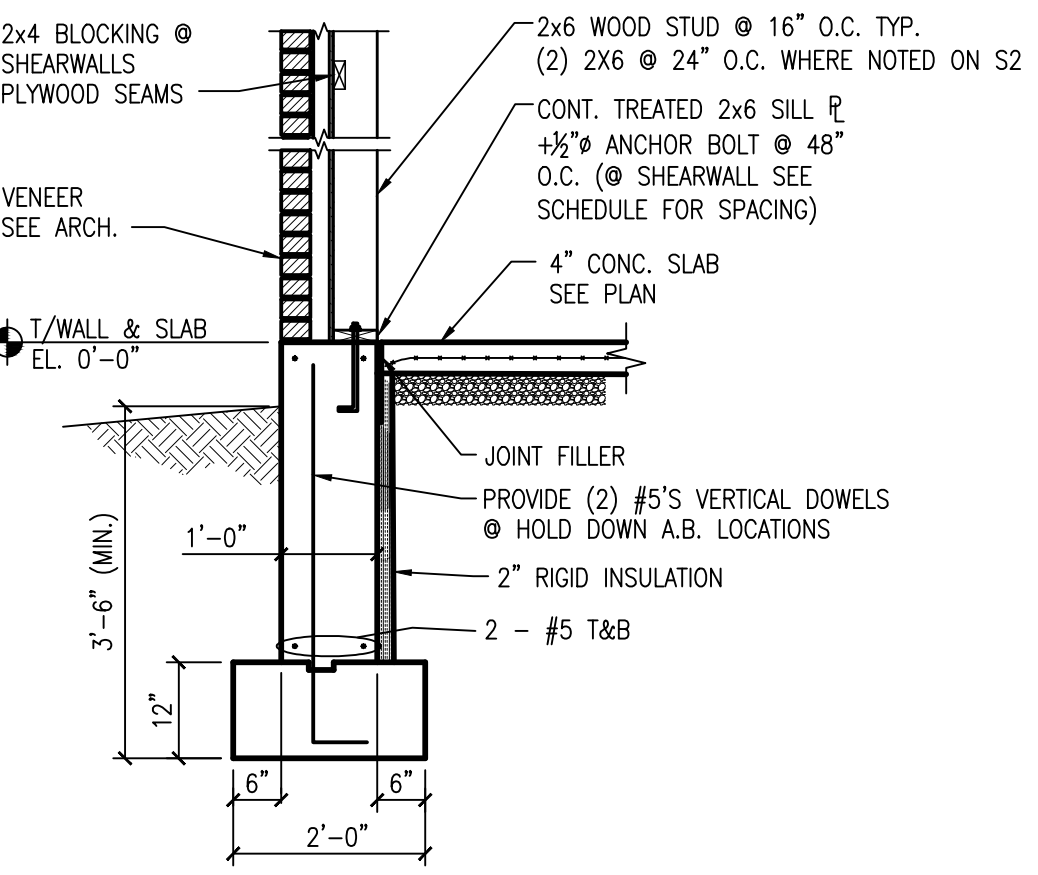
2 HORIZ. REINF. @ INTERSECTION OF CONC. WALLS
SCALE: 1/2"=1'-0"



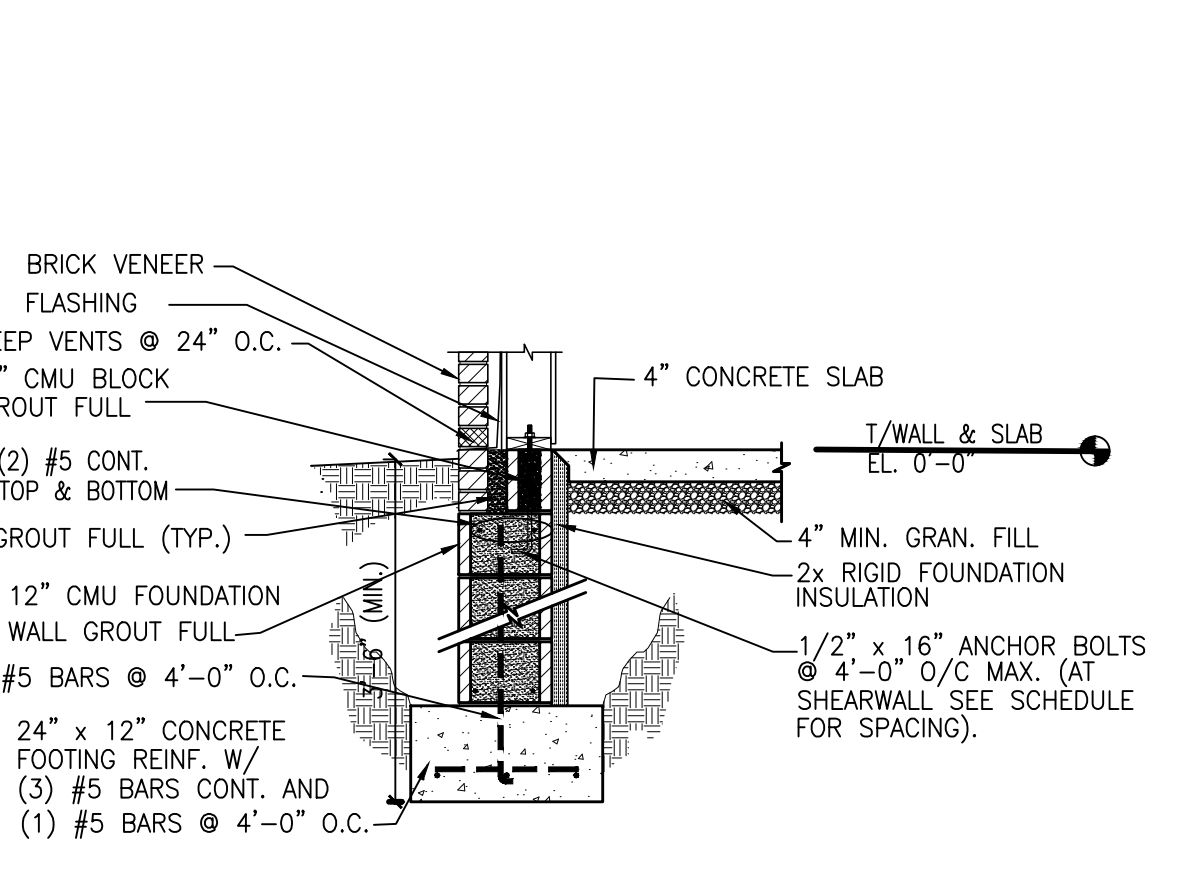
3 TYP. WALL @ CONSTRUCTION JOINT
SCALE: 1/2"=1'-0"



4 TYP. SLAB JOINT DETAIL
SCALE: 1/2"=1'-0"



5 TYP. FOUNDATION WALL
SCALE: 1/2"=1'-0"

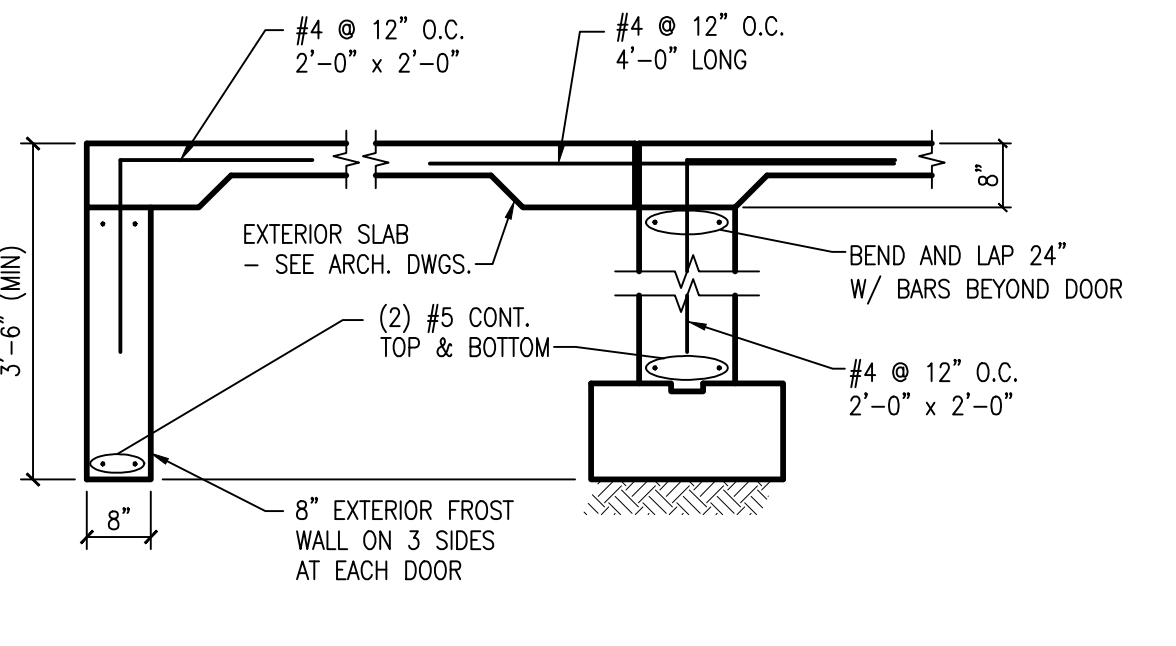


6 ALTERNATE MASONRY FOUNDATION WALL
SCALE: 1/2"=1'-0"

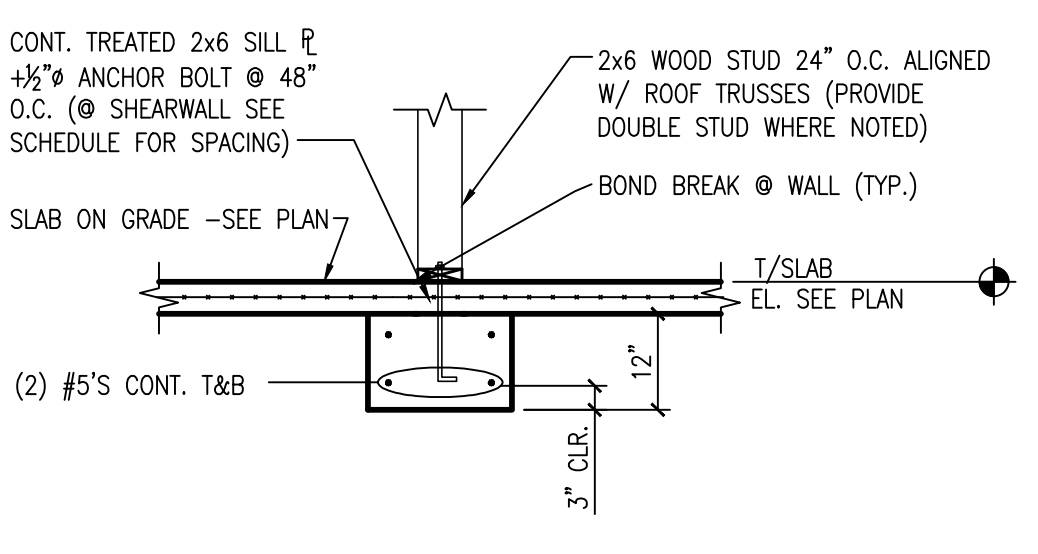
- PROVIDE ADEQUATE, TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION TO WITHSTAND LATERAL LOADS AND THE PRESSURES OF FLUID GROUT.
- CONCRETE MASONRY SHALL BE PROTECTED FROM ABSORBING MOISTURE AND WATER WHILE AT THE PLANT, DURING SHIPMENT AND AT THE SITE DURING CONSTRUCTION.
- ANCHORS, WALL PLUGS, ACCESSORIES AND OTHER ITEMS TO BE BUILT IN SHALL BE INSTALLED AS MASONRY WORK PROCEEDS.
- ALL MASONRY SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
- SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
- ALL INTERIOR NON-LOAD BEARING WALLS SHALL BE LATERALLY BRACED AT THE TOP OF THE WALL UNLESS NOTED OTHERWISE. THE BRACING SHALL ALLOW FOR VERTICAL DEFLECTION OF THE STRUCTURE ABOVE WITHOUT BEARING ON THE WALL.

GENERAL FOUNDATION NOTES:

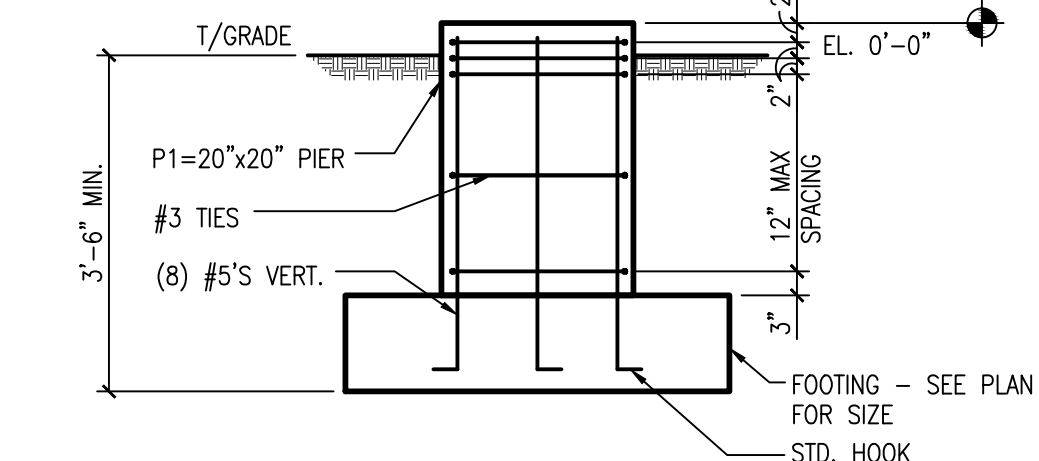
- ALL SOIL SUPPORTED FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED SOIL OR COMPACTED FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 3,000 PSF AS FIELD VERIFIED AND APPROVED BY THE OWNER'S SOIL TESTING LABORATORY. THE BOTTOM OF THE FOOTING ELEVATIONS AND SOIL BEARING CAPACITIES AS SHOWN ON THE DRAWINGS ARE ESTIMATED. FINAL, EXACT ELEVATIONS AND SOIL BEARING CAPACITIES SHALL BE FIELD DETERMINED AND VERIFIED BY THE OWNER'S SOIL TESTING LABORATORY AND REVIEWED BY THE ARCHITECT / ENGINEER DURING CONSTRUCTION.
- SOIL SUBGRADE FOR ALL FOOTINGS AND SLABS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S SOIL TESTING LABORATORY IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE OR CONCRETE MUD SLABS.
- ALL FOOTINGS SUBGRADES AS REQUIRED AND ALL SLAB SUBGRADES INCLUDING PIT SLABS SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNATION ASTM D1557. ALL BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS, FOOTINGS, CAPS, MATS AND PITS SHALL BE COMPACTED TO 90 TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNATION ASTM D1557 AS PER THE SOILS ENGINEER'S RECOMMENDATIONS.
- ALL ORGANIC AND / OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE GRANULAR FILL, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES IN LOOSE THICKNESS AS PER THE SOILS ENGINEER'S RECOMMENDATIONS.
- NO MUD SLABS, FOOTINGS OR SLABS SHALL BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST ENTER A FOOTING EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE RE-INSPECTED BY THE OWNER'S SOIL TESTING LABORATORY AFTER REMOVAL OF WATER OR FROST.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE, AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
- THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.
- ALL SLAB AND FOOTING MUD SLABS SHALL BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO THE FOUNDATION CONCRETE PLACEMENT.
- ALL SLABS-ON-GRADE SHALL BE PLACED OVER A VAPOR BARRIER AND A MINIMUM OF 6 INCH COMPACTED GRANULAR FILL MATERIAL OVER A COMPACTED SOIL SUBGRADE.
- ALL PERIMETER WALL AND COLUMN FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW FINISHED GRADES.
- SEE PLUMBING DRAWINGS FOR UNDER FLOOR DRAINAGE SYSTEM AND SPECIAL GRANULAR FILL MATERIALS.
- SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING AND DAMPROOFING DETAILS.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



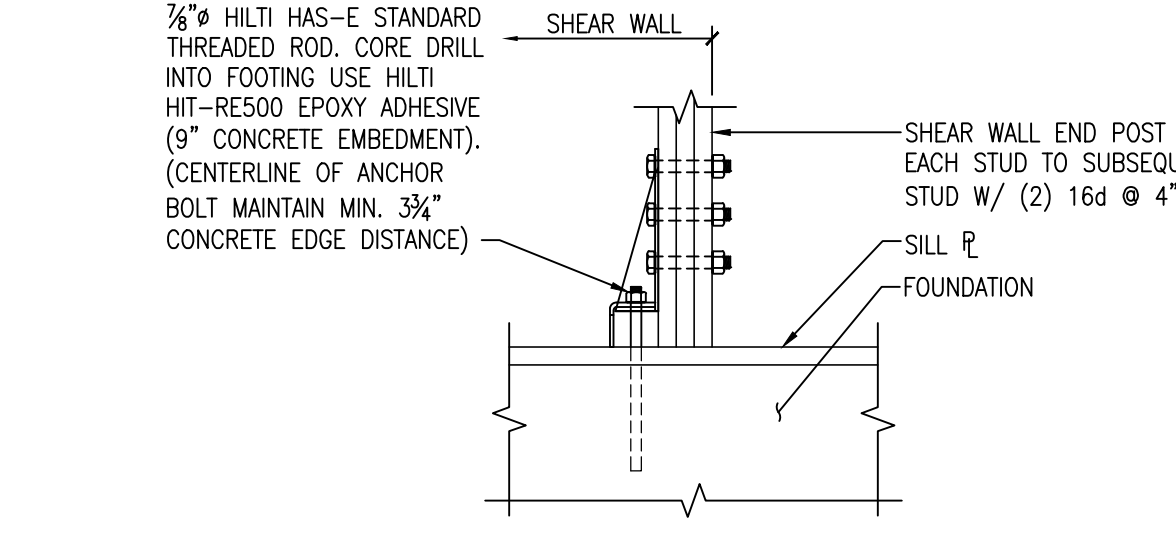
7 TYP. FOUNDATION WALL @ MAN DOOR
SCALE: 1/2"=1'-0"



8 FOOTING BELOW STUD WALL
SCALE: 1/2"=1'-0"



9 TYPICAL PIER DETAIL
SCALE: 1/2"=1'-0"



10 TYPICAL HOLD DOWN DETAIL
SCALE: 3/4"=1'-0"

DATE	BY	DESCRIPTION
11.30.2021	2011.0251	
	AutoCAD 2011	
	NONE	
	SEE DRAWING	

DATE	BY	DESCRIPTION
12-20-11	GSJ	REVIEW
01-12-12		ISSUE FOR PERMIT

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SIGNATURE

SEAL

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DRAWING SCALE SEE DRAWING

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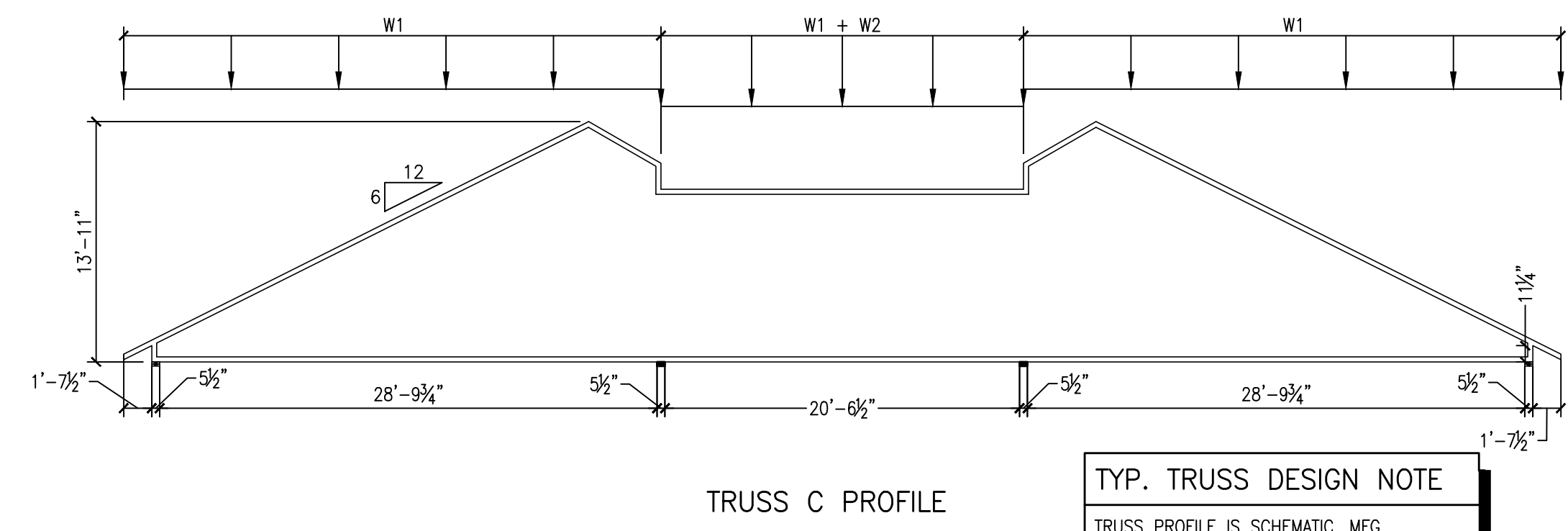
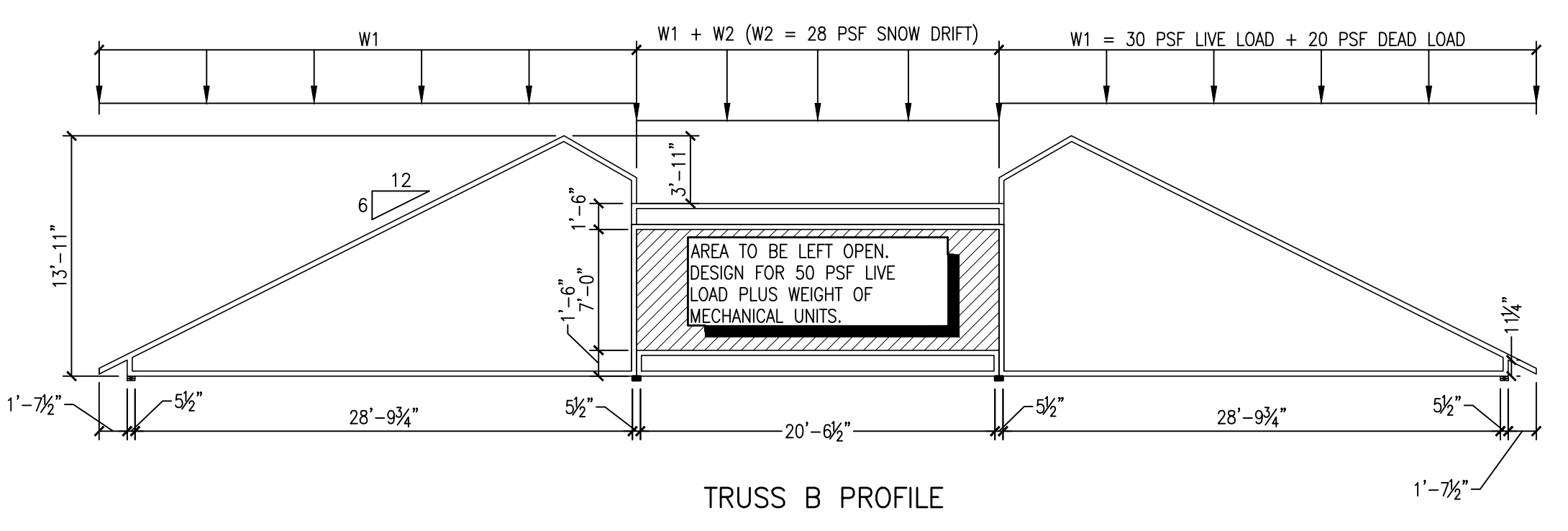
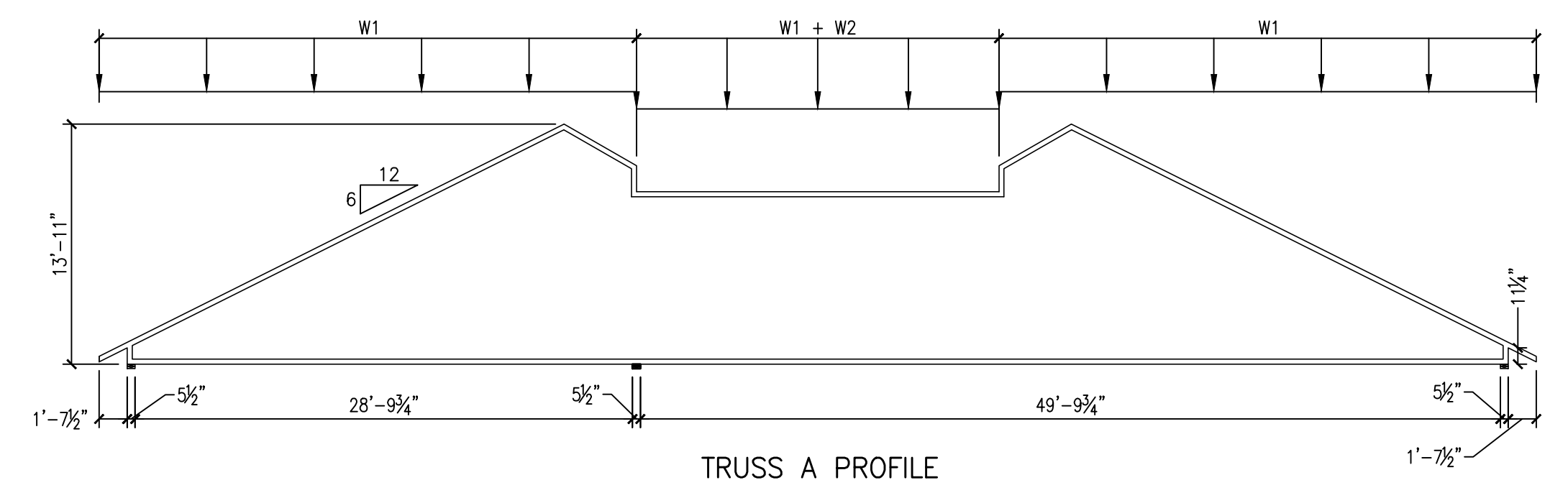
THE GODDARD SCHOOL
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SWC OF 83RD STREET AND LEMONT ROAD
DARIEN, ILLINOIS

SHEET TITLE

ROOF FRAMING PLAN & DETAILS

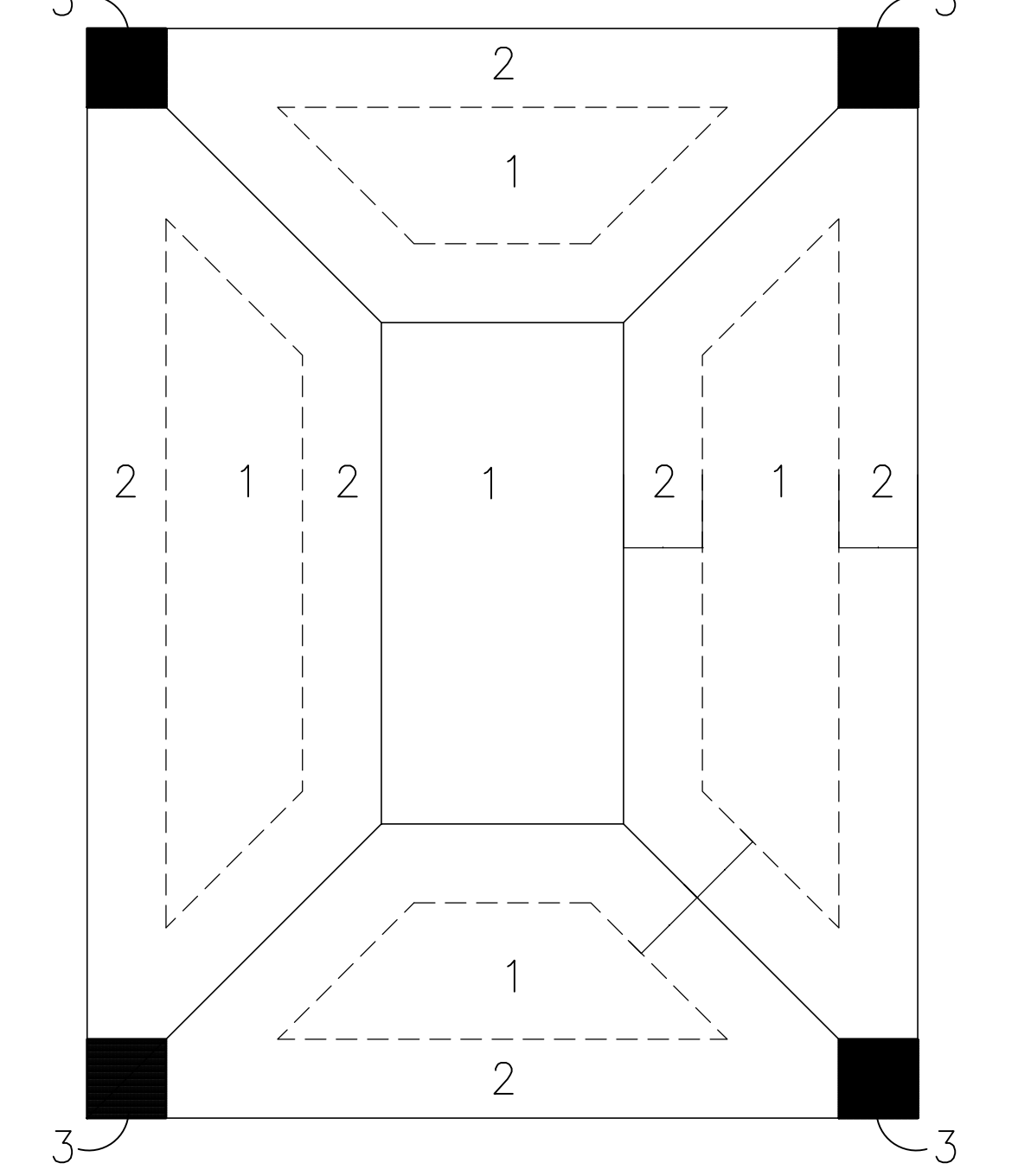
SHEET NUMBER

S2.1
Received 1/16/12
By Primax Construction, Inc.



TYP. TRUSS DESIGN NOTE
TRUSS PROFILE IS SCHEMATIC. MFG. SHALL EVALUATE TRUSS DESIGN FOR MOST ECONOMICAL FABRICATION

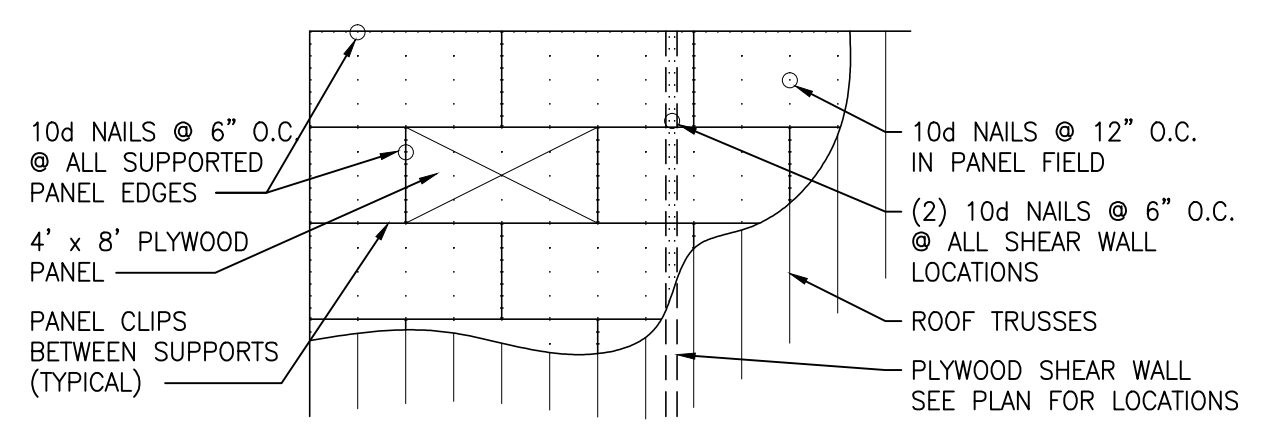
ROOF TRUSS DESIGN LOADS			
WIND LOADS			
ZONE	WINDWARD	SUCTION	
1	6.0 psf	-16.0 psf	MAIN ROOF
2	6.0 psf	-22.0 psf	MAIN ROOF
3	6.0 psf	-26.0 psf	MAIN ROOF
2	6.0 psf	-36.0 psf	TRUSS OVERHANG
3	6.0 psf	-44.0 psf	TRUSS OVERHANG
GRAVITY LOADS			
DEAD LOAD	20 psf		
SNOW LOAD	30 psf		
SNOW DRIFT LOAD	28 psf		
MECHANICAL ATTIC LOADS			
DEAD LOAD	10 psf		
LIVE LOAD	50 psf		



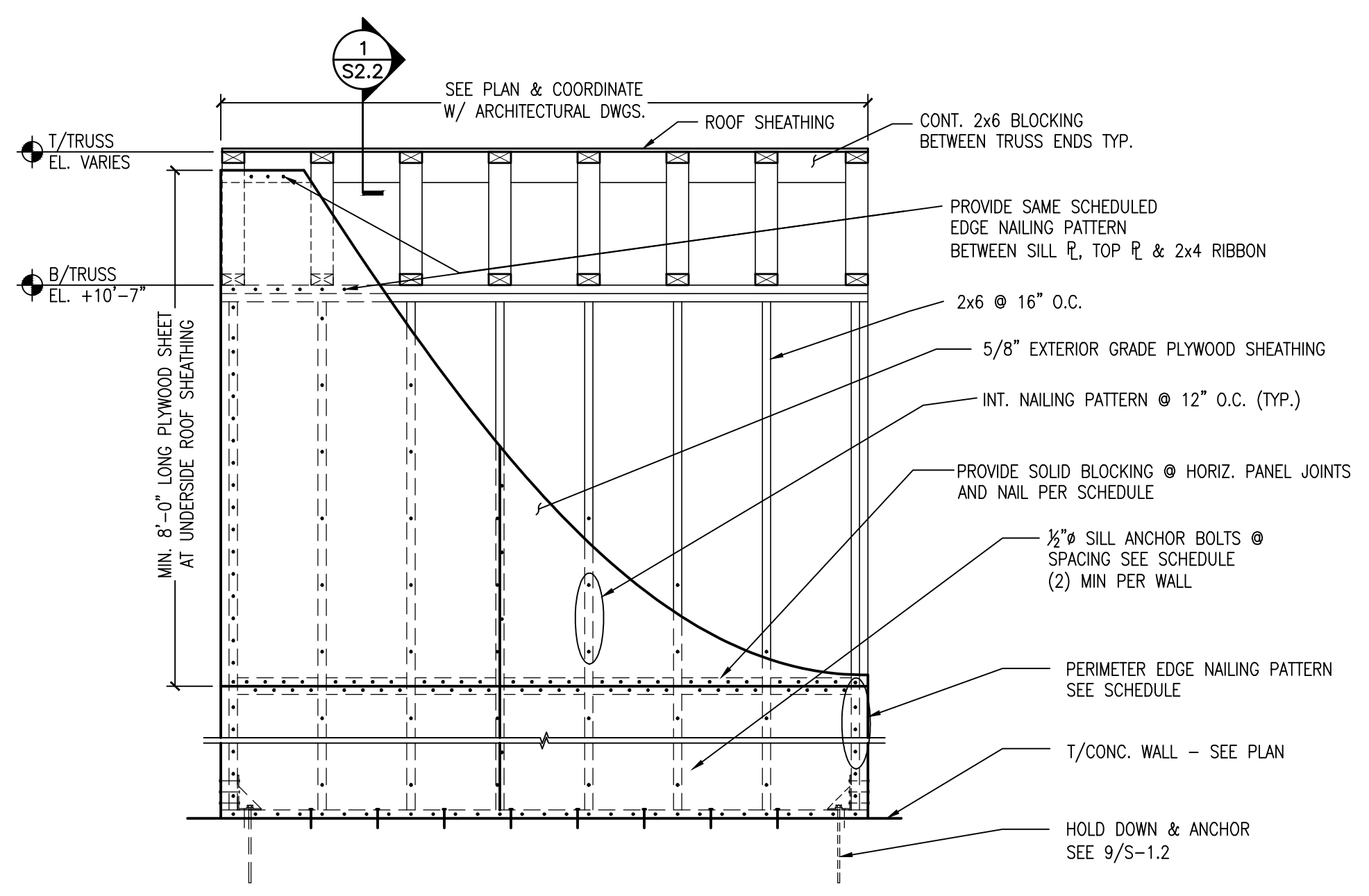
2 DESIGN LOAD DIAGRAM
SCALE: 1/16"=1'-0"

1 TRUSS PROFILES
SCALE: 1/8"=1'-0"

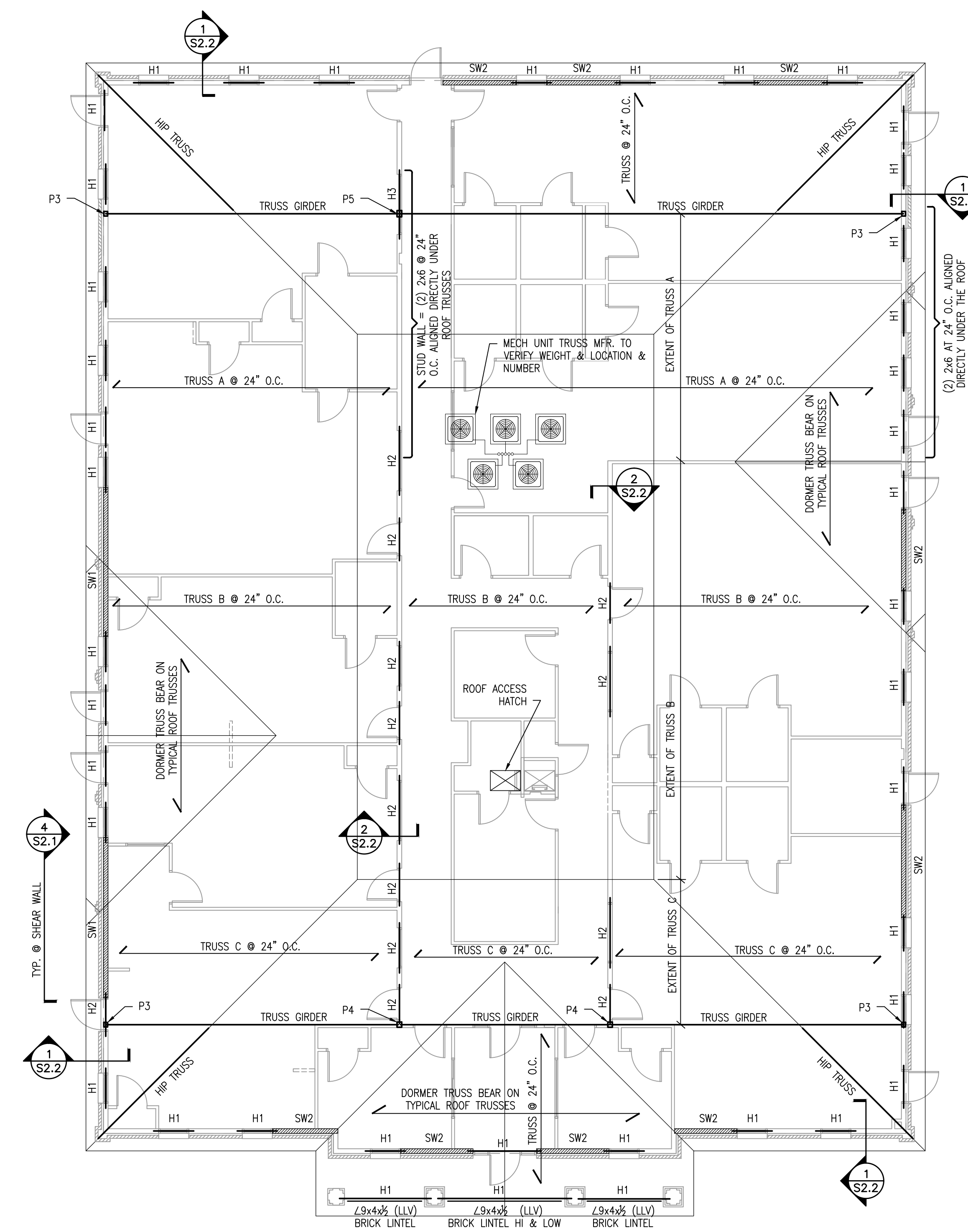
SEE MECHANICAL DRAWINGS FOR MECHANICAL LOADS.



3 TYPICAL ROOF NAILING PATTERN
SCALE: 1/8"=1'-0"



4 TYPICAL SHEARWALL ELEVATION
SCALE: 1/8"=1'-0"



5 ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

- INDICATES SPAN DIRECTION OF TYPICAL 24" DEEP PREFABRICATED ROOF TRUSS @ 24" O.C. SPACING U.N.O. TRUSS BRG. = +10'-7"
- ROOF SHEATHING IS 5/8" APA RATED (32/16) NAIL W/ 10d @ 12" O.C. TYP. & 6" O.C. AT PLYWOOD EDGES, SEE 3/S2.1
- RTU WEIGHTS - SEE ARCH. DWGS. FOR TRUSS DESIGN. PROVIDE A DOUBLE STUD AT EXTERIOR WALL AT TRUSSES SUPPORTING RTU LOADS.
- INTERIOR BEARING WALL = 2x6 @ 24" O.C. U.N.O. ALIGNED WITH ROOF TRUSS.
- EXTERIOR WALL = 2x6 @ 16" O.C. U.N.O.
- P3 = (3) 2x6 STUDS (2) SIMPSON LSTA12 STRAP EACH W/ (5) 10d TO TRUSS & STUD.
- P4 = (4) 2x6 STUDS (2) SIMPSON LSTA12 STRAP EACH W/ (5) 10d TO TRUSS & STUD.
- P5 = (5) 2x6 STUDS (2) SIMPSON LSTA12 STRAP EACH W/ (5) 10d TO TRUSS & STUD.
- SW# = INDICATES SHEAR WALL MARK AND EXTENT. SEE SCHEDULE ON S2.2, ELEVATION ON 4/S2.1 AND DETAIL ON 9/S1.2.
- FOR WOOD HEADER SCHEDULE SEE SHEET S2.2
- FOR BRICK HEADERS SEE STEEL LINTEL SCHEDULE SEE SHEET S1.2

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STRUCTURAL STEEL NOTES:

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION, EXCEPT AS MODIFIED BELOW OR IN THE SPECIFICATIONS.
- ALL STRUCTURAL STEEL W SHAPES SHALL CONFORM TO ASTM A992 GRADE 50. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO ASTM A36 OR 36, UNLESS NOTED OTHERWISE. COLD FORMED TUBING SHALL CONFORM TO ASTM A500 GRADE B. PIPES SHALL CONFORM TO ASTM A53 TYPE E OR S. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 AND BE COMPATIBLE WITH E70XX ELECTRODES
- ALL BOLTS (OTHER THAN ANCHOR BOLTS), NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. ALL BOLTS SHALL BE 3/4 INCH DIAMETER, MINIMUM. BOLTS USED IN LATERAL LOAD RESISTING CONNECTIONS SHALL BE SLIP CRITICAL TYPE, DESIGNED FOR INDICATED FORCES WITHOUT STRESS INCREASES.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION. ALL WELDING ELECTRODES SHALL BE E70XX.

OPEN WEB WOOD TRUSSES:

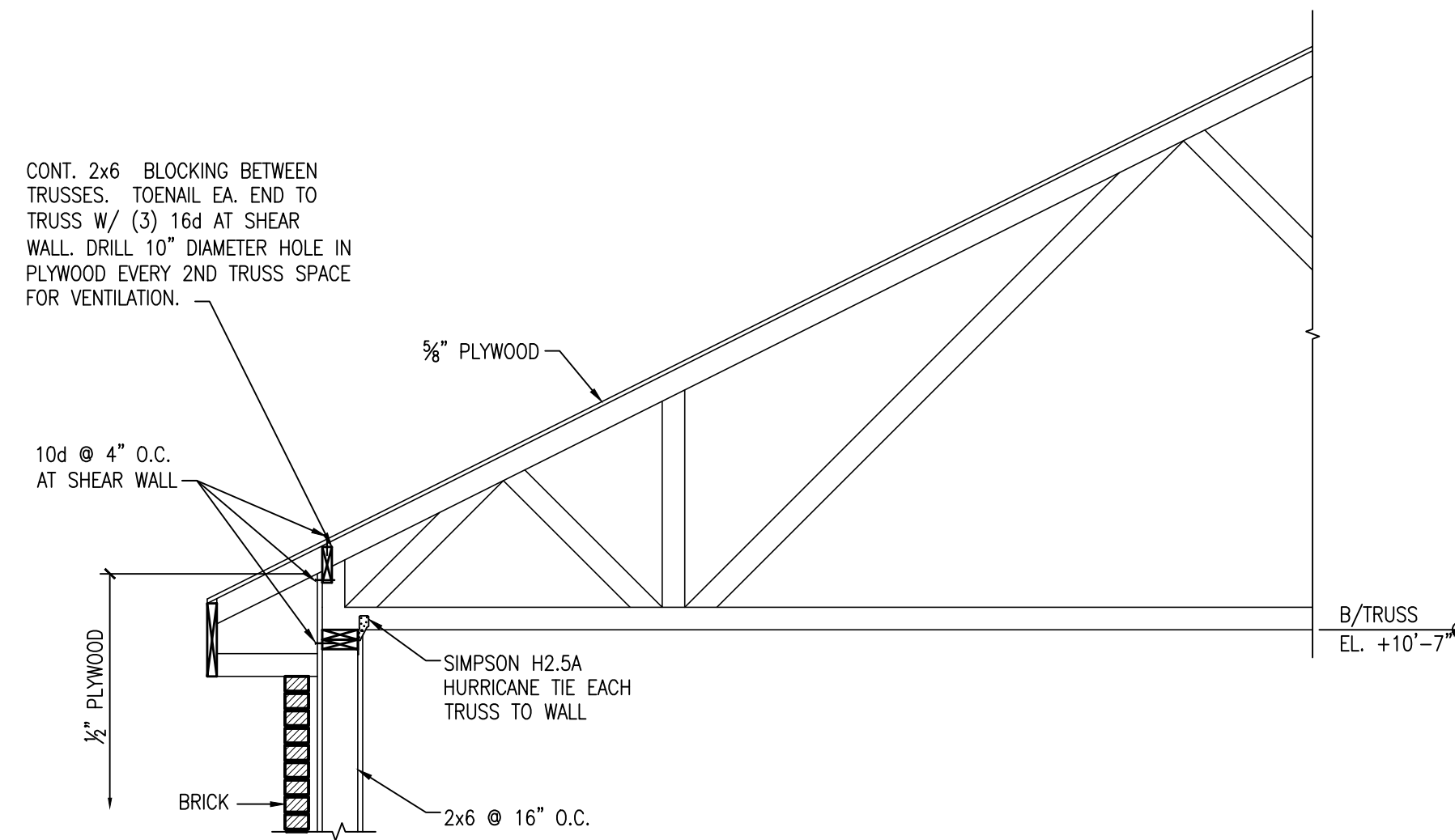
- TRUSSES SHALL BE PER MANUFACTURER, DESIGNED FOR LOADS INDICATED, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S STANDARD SPECIFICATIONS. ALL TRUSSES SHALL BE DESIGNED WITH DIMENSIONAL OR ENGINEERED LUMBER FROM FOREST STEWARDSHIP COUNCIL (FSC) CERTIFIED SUSTAINABILITY HARVESTED SOURCES.
- TRUSSES SHALL BE SIZED SUCH THAT MAXIMUM DEFLECTION UNDER LIVE LOAD DOES NOT EXCEED 1/360 OF THE SPAN, AND MAXIMUM DEFLECTION UNDER TOTAL LOAD DOES NOT EXCEED 1/240 OF THE SPAN.
- ALL WOOD TRUSSES SHALL CONFORM TO DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES "TPI-85" BY TRUSS PLATE INSTITUTE AND "NATIONAL DESIGN SPECIFICATION, 1991" BY NATIONAL FOREST PRODUCTS ASSOCIATION.
- SUPPLIER SHALL BE RESPONSIBLE FOR BRACING AND/OR BRIDGING REQUIRED FOR THE DESIGN OF THE TRUSS MEMBERS.
- SUPPLIER SHALL DESIGN AND PROVIDE ALL NECESSARY BEARING PLATES FOR GIRDER TRUSSES. SUPPLIER SHALL PROVIDE ALL CONNECTORS FOR MAIN AND SUPPLEMENTAL FRAMING AS SHOWN ON THE DRAWINGS OR AS OTHERWISE REQUIRED.
- WOOD TRUSS SHOP DRAWINGS AND CALCULATIONS, STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW JERSEY, SHALL BE SUBMITTED TO A / E PRIOR TO FABRICATION. CALCULATIONS SHALL INCLUDE NOT ONLY A SUMMARY SHEET, BUT ALSO THE DETAILED DESIGN FROM WHICH THE SUMMARY IS OBTAINED.
- PROVIDE SIMPSON WM MASONRY HANGER (OR APPROVED EQUAL) FOR CONNECTION OF TRUSSES OR JOIST TO MASONRY WALL.
- PROVIDE SIMPSON MBHA HANGERS FOR SUPPORT OF LVL'S AT MASONRY WALLS. GROUT MASONRY SOLID (2 COURSES) AT HANGERS.

WOOD/ FRAMING NOTES:

LUMBER SPECIFICATIONS:

HEADER / ROOF JOISTS:	HEM FIR #2	F _b = 850 PSI E = 1,300,000 PSI
STUDS:	HEM FIR STUD	F _b = 675 PSI E = 1,200,000 PSI
LVL (MICRO LAM):		F _b = 2,600 PSI E = 1,900,000 PSI
PARALLAM (WOLMANIZED):		F _b = 2,090 PSI E = 1,740,000 PSI
PARALLAM (PSL COLS.):		F _b = 2,400 PSI F _c = 2,500 PSI E = 1,800,000 PSI

- PROVIDE 1/2" DIAMETER SILL ANCHOR BOLTS AT 4'-0" O.C AND LOCATED NO FURTHER THAN 12" FROM BUILDING CORNERS. THERE SHALL BE A MINIMUM OF 2 BOLTS PER PLATE.
- CUTTING AND NOTCHING OF STUDS SHALL NOT EXCEED ONE FOURTH OF THE STUD DEPTH IN EXTERIOR BEARING WALLS. DIAMETER OF BORED HOLES SHALL BE LIMITED TO 40 PERCENT OF WALL STUD DEPTH. NO BORED HOLES SHALL BE CLOSER THAN 3/8" FROM ANY EDGE AND SHALL NOT BE IN THE SAME SECTION WHERE A NOTCH OR CUT HAS OCCURRED. STUDS SHALL NOT BE CUT OR NOTCHED UNLESS METAL REINFORCING PIECES ARE PROVIDED TO STRENGTHEN THE MEMBER.
- CUTTING AND NOTCHING OF FLOOR AND CEILING JOISTS SHALL NOT EXCEED ONE ONE FOURTH THE DEPTH. NOTCHES IN THE TOP OR BOTTOM OF THE RAFTER OR CEILING JOIST SHALL NOT EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE ONE THIRD OF THE SPAN.
- ALL HEADERS SHALL BE (3) 2x12 U.N.O. SEE LINTEL SCHEDULE FOR MASONRY. MINIMUM (1) - 2x6 CRIPPLE & (2) 2x6 KING STUDS AT EACH END OF ALL WOOD BEAMS & HEADERS.
- HOLES BORED IN FLOOR JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP AND BOTTOM AND THEIR DIAMETER SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE MEMBER.
- ALL FLOOR, WALL & ROOF WOOD SHEATHING IS TO BE OSB, APA APPROVED, WITH NO FORMALDEHYDE (PMDI BINDER ONLY). IN ADDITION, ALL OSB SHEATHING SHALL BE MANUFACTURED FROM RAPIDLY RENEWABLE MATERIAL.
- EITHER LAP JOISTS OVER BEAMS PER IBC 2000 REQUIREMENTS, OR PROVIDE JOIST HANGERS.
- ALL TIMBER CONNECTIONS (STUDS, JOISTS, RAFTERS AND PLYWOOD) SHALL MEET THE NAILING REQUIREMENTS OF IBC 2000 TABLE 2304.9.1 ON PAGE 547.
- ALL CONNECTORS SHALL BE GALVANIZED STRONG-TIE CONNECTORS BY THE SIMPSON COMPANY OR APPROVED EQUAL.
- PROVIDE BRIDGING AND BLOCKING PER THE REQUIREMENTS OF NATIONAL FOREST PRODUCTS ASSOCIATION (NFPS) DESIGN SPECIFICATIONS.
- WHERE TIMBER FRAMING IS SUPPORTED BY STEEL, A TIMBER PLATE SHALL BE FASTENED TO THE TOP FLANGE OF THE STEEL BEAM. HILTI POWDER ACTUATED FASTENERS (OR EQUIVALENT) SHALL BE USED @ 24" O.C. (MAX.)
- DOUBLE FLOOR JOISTS UNDER STAIRS & ALL PARTITIONS WHERE PARALLEL TO FLOOR JOISTS.
- ALL STUD WALLS TO HAVE SINGLE 2x BOTTOM PLATE & DOUBLE 2x TOP PLATE U.N.O. AT LEAST 90% OF ALL BOTTOM PLATED SHALL BE FINGER-JOINTED MATERIAL.
- ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED LUMBER.
- 1/2" APA RATED, OSB SHEAR WALL SHEATHING SHALL BE FASTENED TO 2x6 WOOD STUDS USING 10d COMMON NAILS @ 6" O.C. (U.N.O.) AT ALL EDGES AND 12" O.C. IN FIELD. (ALT. NO. 14 GA. STAPLES) U.N.O. ALL GYP. BOARD SHEATHING SHALL BE FASTENED TO 2x6 WOOD STUDS @ 7" O.C. @ ALL EDGES AND 12" O.C. IN FIELD AT ALL EXTERIOR WALLS.
- PROVIDE BRIDGING AND BLOCKING PER THE REQUIREMENTS OF NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) DESIGN SPECIFICATIONS.
- ALL POSTS SUPPORTING BEAMS SHALL HAVE AN APPROPRIATELY SIZED SIMPSON POST / BEAM CONNECTOR OR APPROVED EQUAL.
- ALL EXTERIOR, CORRIDOR AND SHEAR WALL STUDS TO BE 2x6 @ 16" O.C. U.N.O.



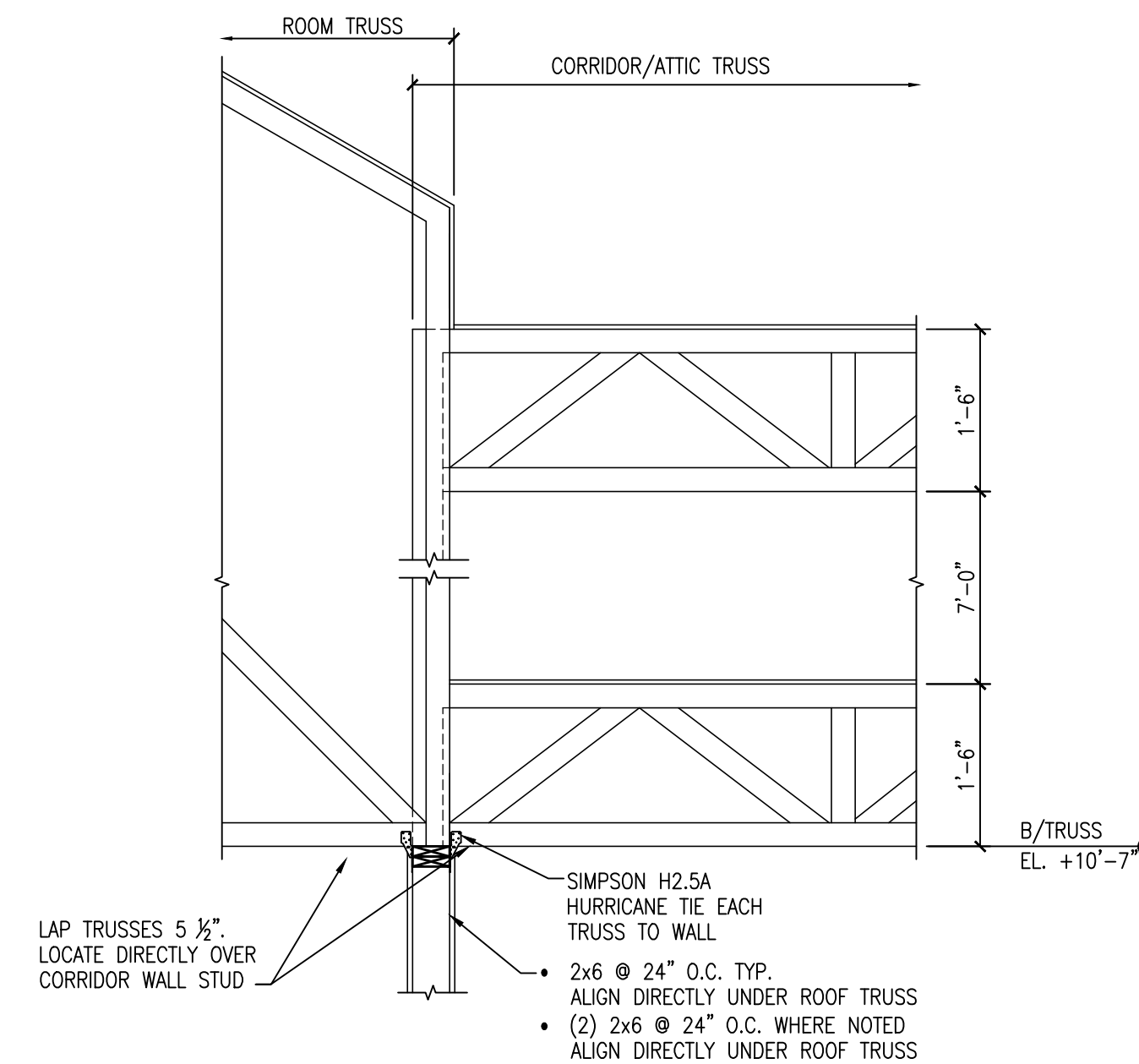
1 DETAIL AT EXTERIOR TRUSS BEARING WALL

SCALE: 1/2"=1'-0"

HEADER SCHEDULE

MARK	SIZE	NUMBER OF 2x6 CRIPPLES EACH END	NUMBER OF 2x6 FULL HEIGHT STUDS EACH END
H1	(3) 2x12 *1	(1) 2x6	(2) 2x6
H2	(3) 2x12 *1	(2) 2x6	(1) 2x6
H3	(3) 13/4"x14" LVL	(5) 2x6	(1) 2x6

*1 SEE SHEET S-1 LINTEL NOTES FOR MASONRY HEADER STEEL SIZE.



2 DETAIL AT INTERIOR TRUSS BEARING

SCALE: 1/2"=1'-0"

SHEAR WALL SCHEDULE

MARK	NAILING OF 5/8" PLYWOOD	SILL PLATE BOLTING	END STUDS	HOLDDOWN
SW1	10d @ 6" O.C.	1/2" @ 32" O.C.	(2) 2x6	SIMPSON HD9
SW2	10d @ 4" O.C.	1/2" @ 16" O.C.	(2) 2x6	SIMPSON HD9

END STUDS ARE IN ADDITION TO TYPICAL OR HEADER STUDS.

DATE	11.30.2011
PROJECT NO.	2011.021
CAD REFERENCE NO.	AutoCAD 2011
PLOT REFERENCE NO.	NONE
DRAWING SCALE	SEE DRAWING

REVISIONS		
MARK	DATE	DESCRIPTION
	12-20-11	CSI REVIEW
	01-12-12	ISSUE FOR PERMIT



PROJECT TITLE

ZIP

THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
ILLINOIS 8400
SWC OF 83RD STREET AND LEMONT ROAD
DARIEN, ILLINOIS

SHEET TITLE

FRAMING DETAILS

SHEET NUMBER

S2.2

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