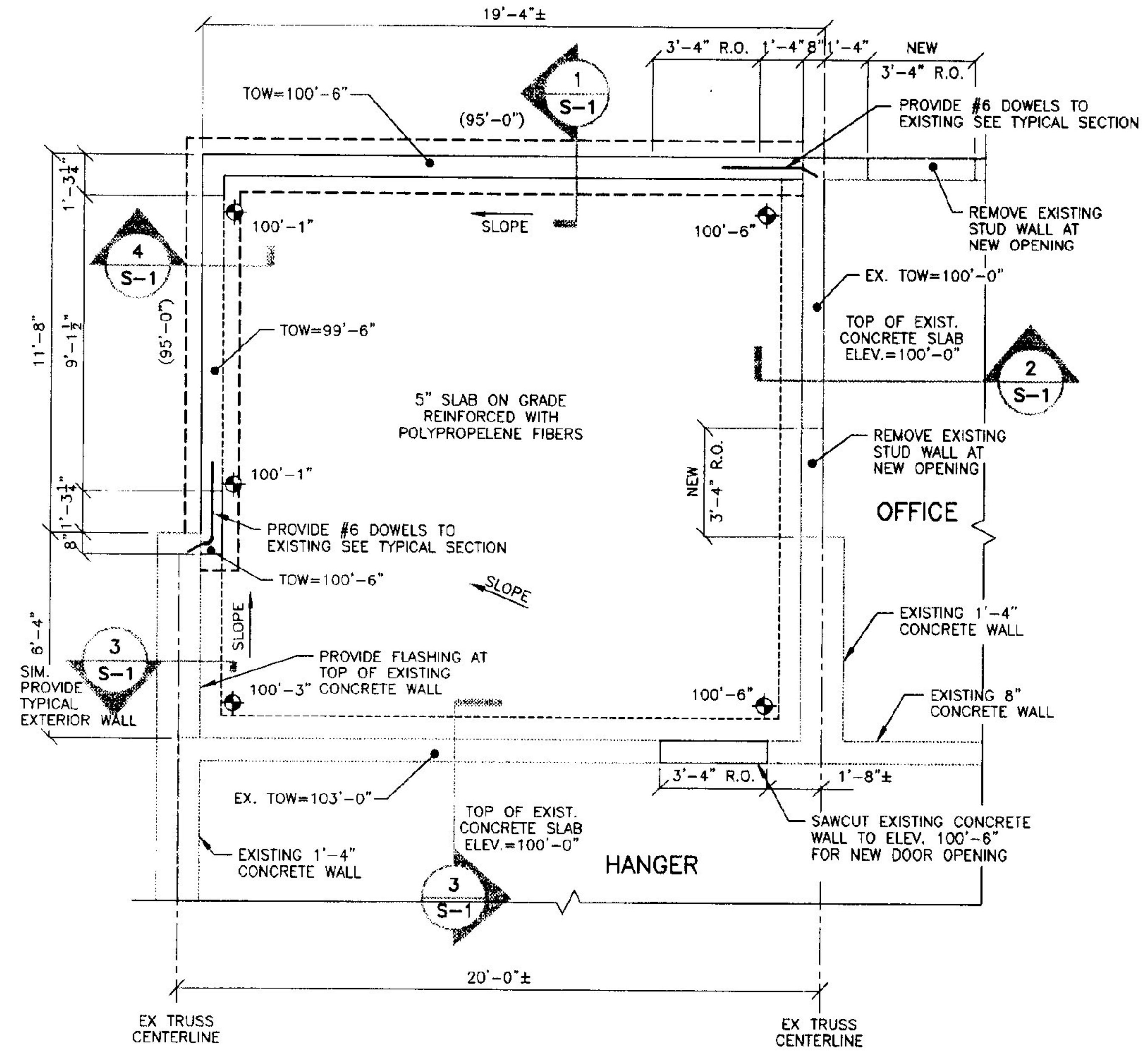
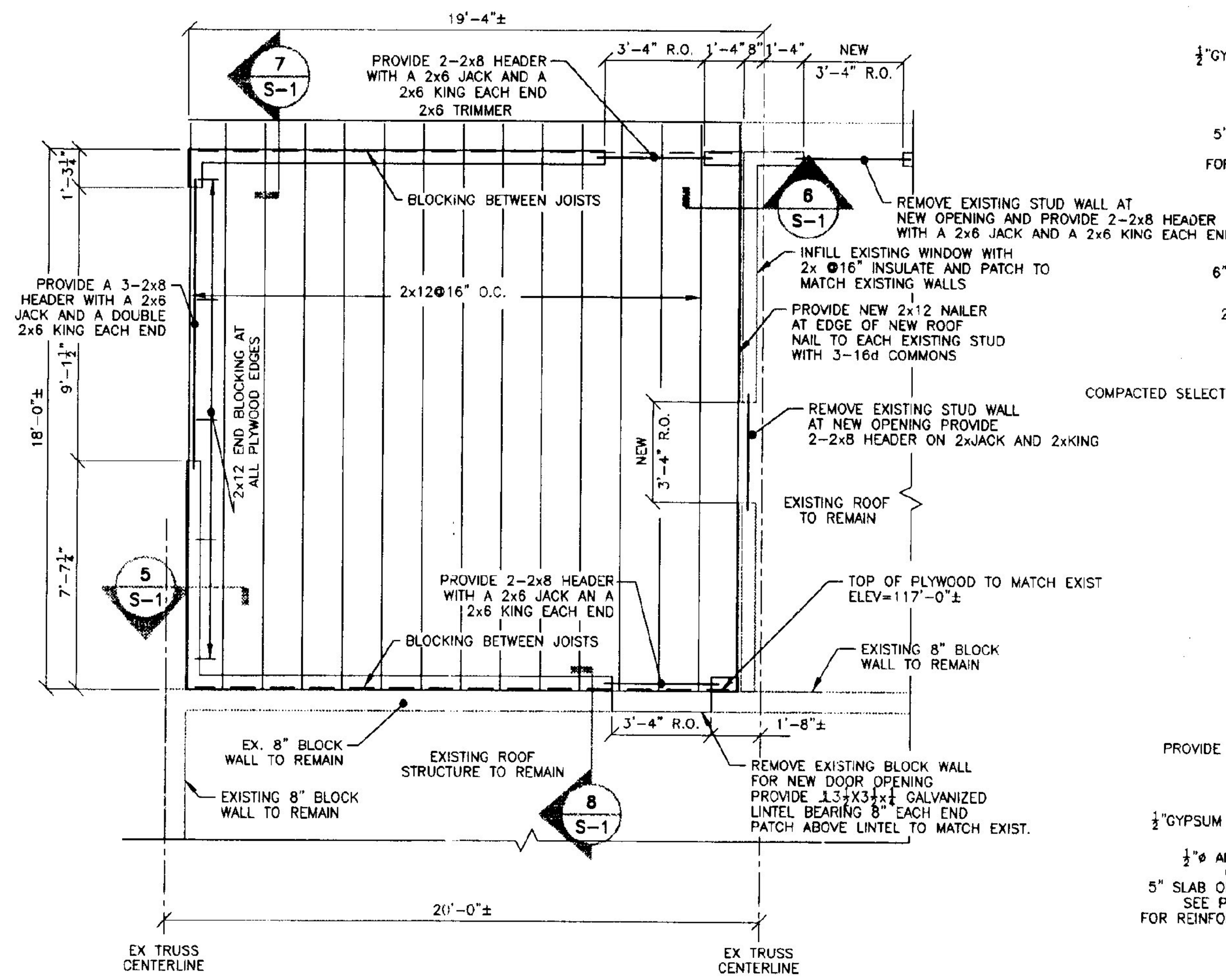


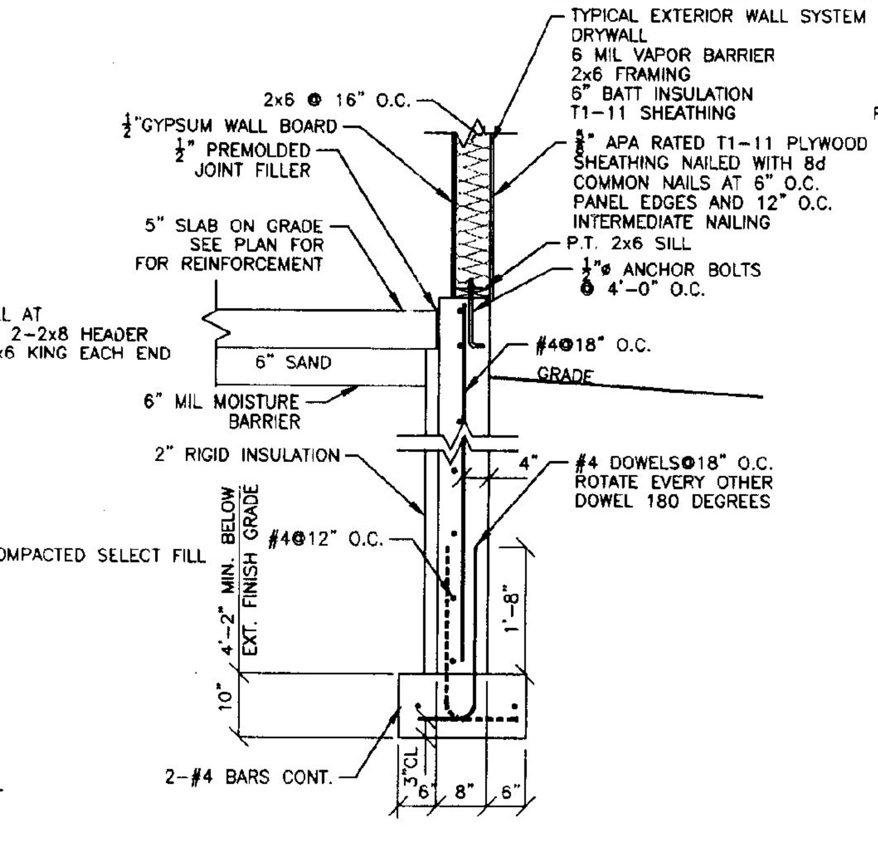
FOUNDATION PLAN SCALE: $\frac{1}{4}$"=1'-0"

1. DESIGN SOIL BEARING PRESSURE 3,000 PSF. NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS ENCOUNTERED
2. ALL CONCRETE EXCEPT SLAB ON GRADE AND EXTERIOR CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. SLAB CONCRETE AND EXTERIOR CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. SLABS ON GRADE SHALL SUPPORTED ON A 6" COMPACTED COARSE SAND CUSHION ON A 6 MIL VAPOR BARRIER OVER AN 8" COMPACTED GRAVEL BASE.
4. ALL FILL, BACKFILL AND BASE MATERIAL SHALL BE COMPACTED IN 8" LIFTS TO 95% OF ITS MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR).
5. (???'-??") INDICATES BOTTOM OF FOOTING ELEVATION. SLAB THICKNESSES SPECIFIED ARE MINIMUMS.

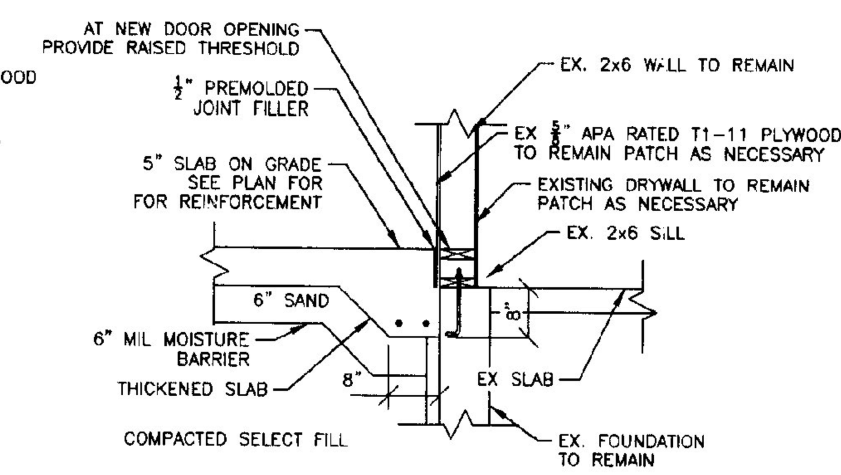


ROOF FRAMING PLAN SCALE: $\frac{1}{4}$"=1'-0"

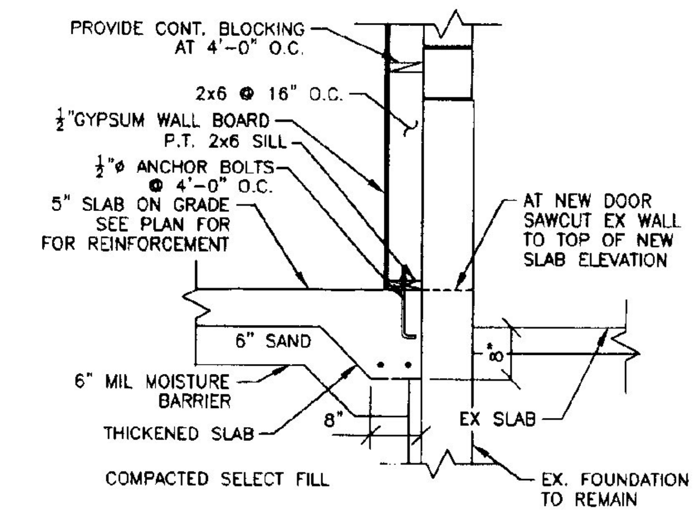
1. TOP OF PLATE EL. TO BE SET AS REQUIRED TO MATCH EXISTING ROOF SEE SECTIONS FOR APPROXIMATE ELEVATIONS
2. ROOF SHEATHING SHALL BE $\frac{5}{8}$" APA 32/16 PLYWOOD SHEATHING. NAIL ALL PANEL EDGES WITH 10d COMMONS AT 6" O.C.. PROVIDE INTERMEDIATE 10d COMMONS AT 10" O.C.
3. ALL NEW WALLS ARE 2x6 AT 16" O.C. UNLESS OTHERWISE NOTED.
4. HEADERS SHOWN SUPPORT THE ROOF STRUCTURE.



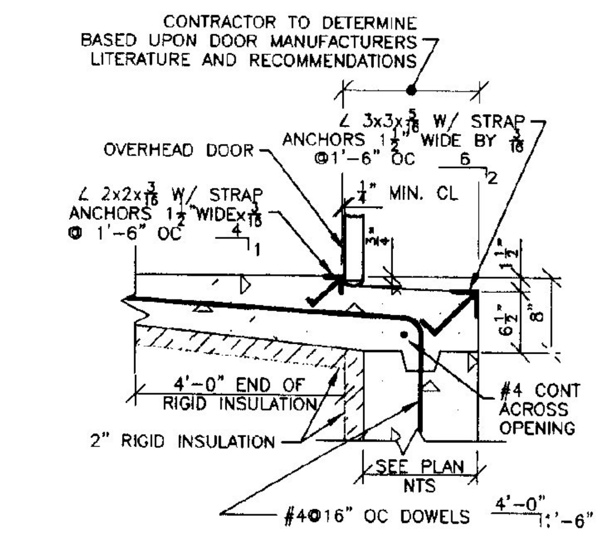
TYPICAL WALL (1/S-1)
SCALE: $\frac{1}{2}$"=1'-0"



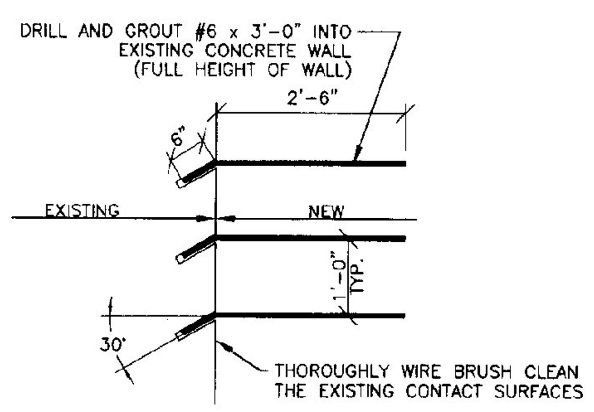
WALL AT EX. OFFICE (2/S-1)
SCALE: $\frac{1}{2}$"=1'-0"



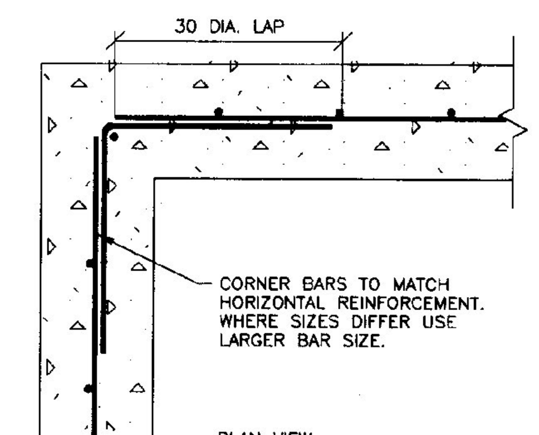
WALL AT EX. HANGER (3/S-1)
SCALE: $\frac{1}{2}$"=1'-0"



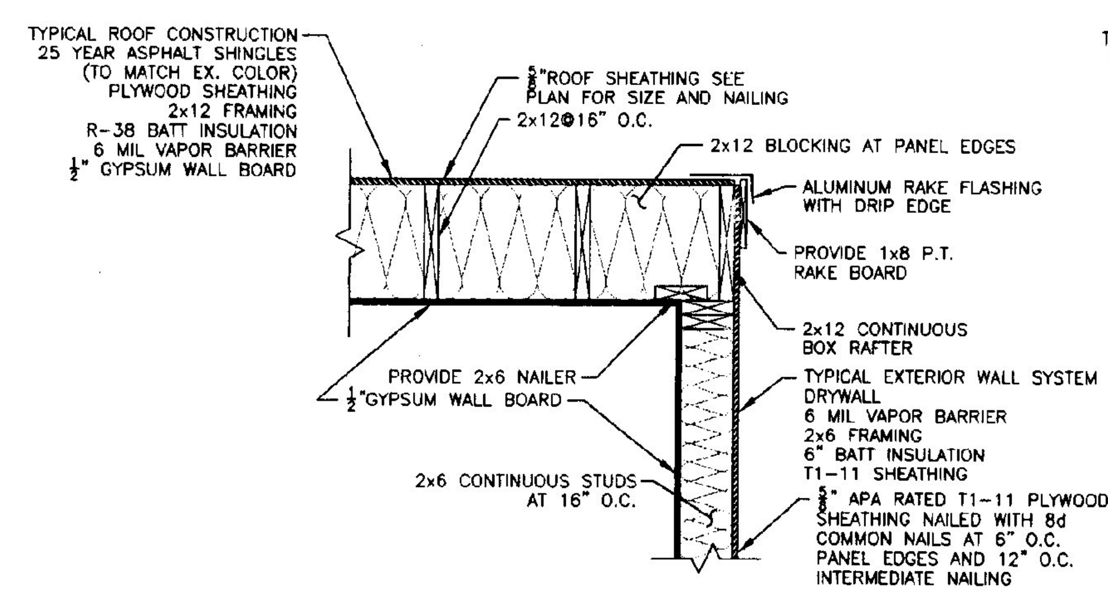
OVERHEAD DOOR SECTION (4/S-1)
SCALE: $\frac{3}{4}$"=1'-0"



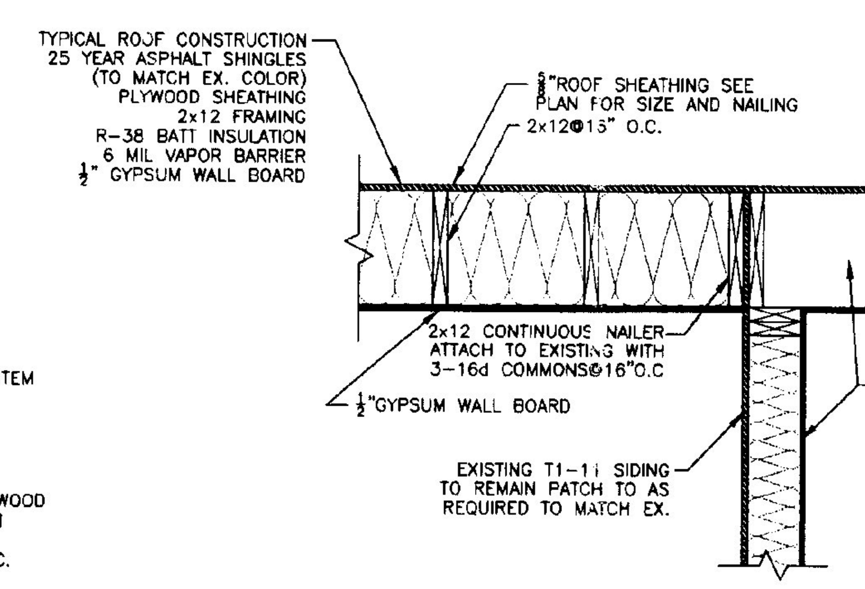
TYPICAL ELEVATION
WHERE NEW CONCRETE WALL MEETS EXISTING NOT TO SCALE



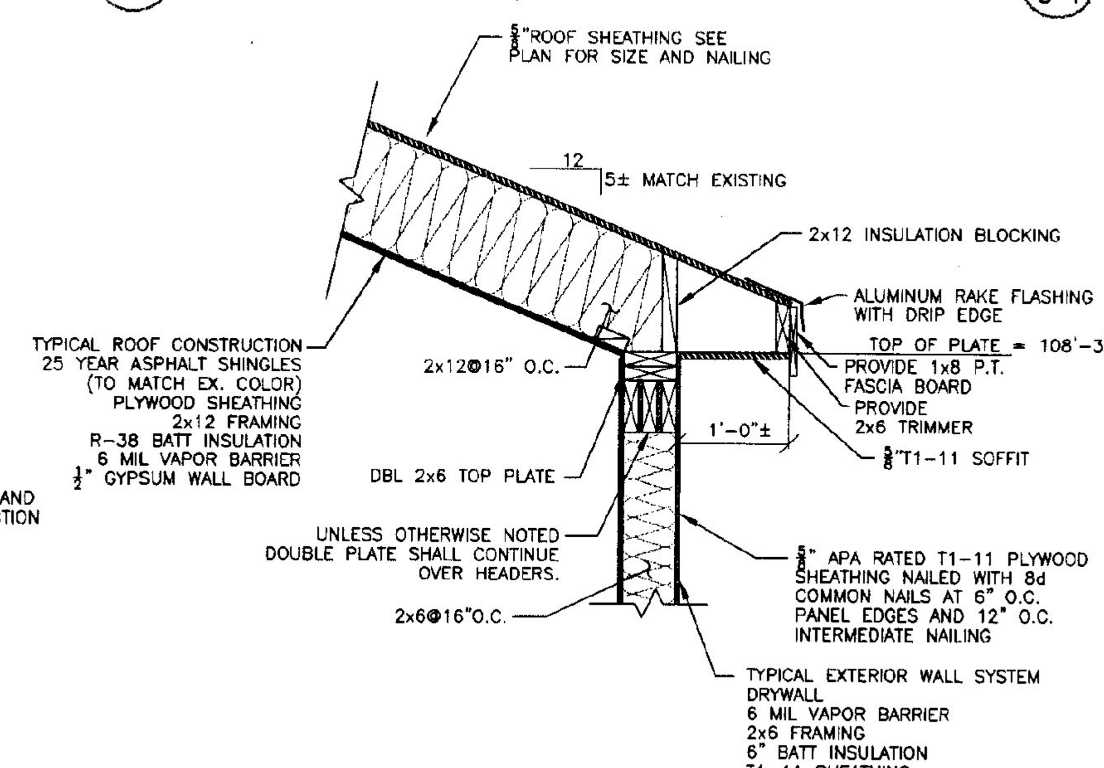
TYPICAL WALL CORNER DETAIL
SCALE: $\frac{3}{4}$"=1'-0"



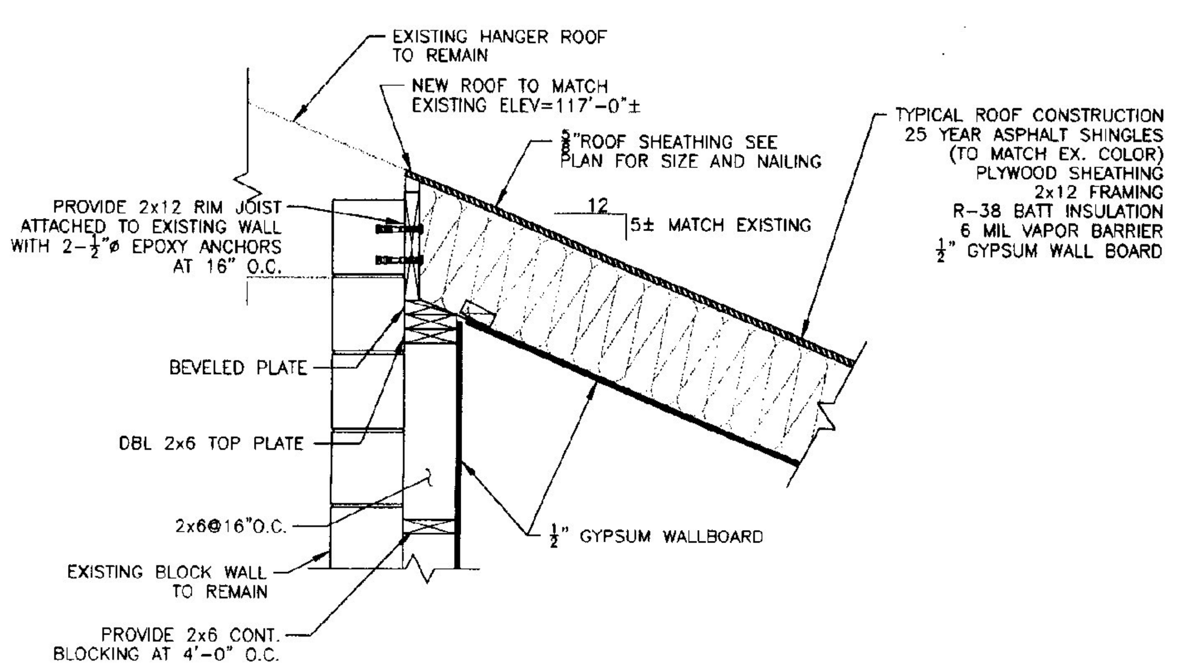
TYPICAL RAKE END SECTION (5/S-1)
SCALE $\frac{3}{4}$"=1'-0"



TYPICAL SECTION AT OFFICE ROOF (6/S-1)
SCALE $\frac{3}{4}$"=1'-0"



TYPICAL EAVE SECTION (7/S-1)
SCALE: $\frac{3}{4}$"=1'-0"



TYPICAL EAVE SECTION (8/S-1)
SCALE: $\frac{3}{4}$"=1'-0"

GENERAL NOTES

1 GENERAL:

1.1 ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER, AND IN ACCORDANCE WITH STATE CODE (BOCA 1987 WITH LATEST SUPPLEMENTS), AND LOCAL CODES AND ORDINANCES.

1.2 ALL DIMENSIONS SHOWN MUST BE VERIFIED BY THE CONTRACTOR DURING CONSTRUCTION BY THE AID OF ARCHITECTURAL DRAWINGS AND FIELD CHECKS.

1.3 CONTRACTOR PROTECT EXISTING FACILITIES, STRUCTURES, UTILITY LINES FROM ALL DAMAGE.

1.4 CONTRACTOR IS RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL MEMBERS, WALLS, AND NON-STRUCTURAL ITEMS DURING CONSTRUCTION.

1.5 BUILDING IS DESIGNED FOR THE FOLLOWING LIVE LOADS:

ON GROUND SNOW LOAD	60 PSF
GARAGE FLOOR	250 PSF
SEISMIC ZONE	2
WIND PRESS. BASED OF VEL. OF	70 MPH

1.6 ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL HAVING A MINIMUM BEARING CAPACITY OF 3,000 PSF, OR ON CONTROLLED ENGINEERED FILL, OR ON SOUND LEVEL ROCK. IT IS ASSUMED THAT THIS WILL BE ATTAINED AT A MINIMUM DEPTH OF 5'-0" BELOW FINISHED EXTERIOR GRADE OR AT THE ELEVATION NOTED ON PLANS - LOWER AS NECESSARY. NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS ENCOUNTERED.

1.7 BACKFILL INSIDE OF FOUNDATION WALLS AT SLAB ON GRADE WITH IMPORTED BANK RUN GRAVEL, OR SELECT ON-SITE MATERIAL THAT WILL MEET COMPACTION CRITERIA, AS DETERMINED BY THE TESTING LABORATORY, IN 8" LIFTS TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, ASTM D1557.

1.8 PROVIDE A 6 MIL POLYETHYLENE VAPOR BARRIER UNDER FLOOR SLAB BETWEEN THE SAND AND THE GRAVEL BASE. SCARIFY AND COMPACT SUB BASE TO 95%, AND BASE MATERIAL ABOVE TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, ASTM D1557.

1.9 THE CONTRACTOR SHALL THOROUGHLY CLEAN THE PREMISES AT COMPLETION OF WORK AND AT TIMES AS DIRECTED BY THE OWNER. LEGALLY DISPOSE OF EXCESS MATERIAL OFF SITE.

2 CONCRETE:

2.1 ALL CONCRETE AND REINFORCING WORK SHALL BE IN STRICT ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-89)". EXTERIOR CONCRETE AND FOUNDATION WALLS SHALL BE AIR-ENTRAINED WITH AIR CONTENT AS RECOMMENDED BY ACI 613. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. SUBMIT CONCRETE MIX DESIGN IN ACCORDANCE WITH ACI 318 FOR REVIEW OF ENGINEER. CONTRACTOR SHALL TAKE 4 TEST CYLINDERS OF CONCRETE FOR EACH 50 CUBIC YARDS OF CONCRETE OR FOR EACH DAYS POUR IF LESS THAN 50 C.Y. TESTING WILL BE AT OWNER'S EXPENSE.

2.2 USE A MID RANGE SUPERPLASTICIZER ADDITIVE FOR SLAB ON GRADE CONCRETE. PROVIDE THE STANDARD MIX, EXCEPT THE SLUMP BEFORE ADDING THE MID RANGE SUPERPLASTICIZER SHALL BE 2" +OR- 1/4".

2.3 CONCRETE SLAB WORK SHALL BE PERFORMED IN ACCORDANCE WITH "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (ACI 302.1 R-80). CONCRETE SHALL NOT BE PLACED ON A SATURATED SAND BASE. PROTECT SAND BASE FROM RAIN OR AERATE UNTIL DRY AND RECOMPACT. FINISH TO BE HARD STEEL TROWELED (THREE TROWLINGS, MINIMUM). APPLY A LIQUID MEMBRANE CURING, SEALING, AND HARDENING COMPOUND (CONFORMING TO "SPECIFICATIONS FOR LIQUID MEMBRANE - FORMING COMPOUNDS FOR CURING CONCRETE, ASTM 309-74) IMMEDIATELY AFTER FINISHING.

2.4 CONCRETE SHALL BE PROTECTED FROM FREEZING. CONTRACTOR SHALL FOLLOW THE "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING (ACI 306, LATEST EDITION).

2.5 ALL CONCRETE SHALL BE PLACED IN THE DRY - PUMP AS NECESSARY.

2.6 CONCRETE SHALL BE SO PROPORTIONED SO AS TO HAVE A MAXIMUM SLUMP OF 4", EXCEPT CONCRETE SPECIFIED TO HAVE A SUPERPLASTICIZER SHALL HAVE A SLUMP OF 2" +OR- 1/4".

2.7 CONCRETE SLABS AND SLABS ON GRADE SHALL BE REINFORCED WITH POLYPROPYLENE FIBERS AT 1.6 POUNDS PER CUBIC YARD OF CONCRETE. FOLLOW MANUFACTURERS SPECIFICATIONS.

2.8 THE CONCRETE CONTRACTOR SHALL INSTALL (OR GIVE OTHER TRADES AMPLE OPPORTUNITY TO INSTALL) ALL ANCHOR BOLTS, ANCHORS, PLATES, NAILERS, SLOTS, CHASES, PIPE SLEEVES, DUCT OPENINGS, ETC., AS REQUIRED BY OTHER TRADES. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE SETTING SCREEDS AND FORMS. FORM RELEASE OIL SHALL BE AN APPROVED NON-TOXIC LIQUID.

2.9 CURING: HORIZONTAL SURFACES SHALL BE KEPT CONTINUOUSLY MOIST OVER ENTIRE SURFACE FOR SEVEN DAYS WHEN WATER CURING IS USED. VERTICAL SURFACES SHALL RECEIVE 2 COATS ONE AT TIME OF STRIPPING AND ANOTHER 3 DAY LATER) OF AN APPROVED NON-TOXIC LIQUID CURING COMPOUND.

2.10 ALL WALLS SHALL BE ADEQUATELY BRACED TO WITHSTAND BACKFILLING AND CONSTRUCTION LOAD PRESSURES. WALLS MUST BE AT LEAST SEVEN DAYS OLD BEFORE BACKFILLING.

3 REINFORCING STEEL:

3.1 REINFORCING STEEL SHALL BE NEW BILLET STEEL, ASTM A615, Fy=60 KSI, EXCEPT TIES AND STIRRUPS SHALL BE Fy=40 KSI. SUBMIT SHOP DRAWINGS FOR REVIEW OF ENGINEER.

3.2 THE MINIMUM CLEAR DISTANCE FROM REINF. STEEL TO ADJACENT SURFACE SHALL BE: 3" FROM BOT. OF FOOTINGS AND GRADE BEAMS; 1-1/2" (2" FOR #6 OR LARGER) FROM FACE OF WALLS AND GRADE BEAMS EXPOSED TO EARTH OR WEATHER, 3/4" FROM INSIDE FACE; AND 2" FOR SLAB ON GRADE.

3.3 LAP ALL BARS 30 DIAMETERS MINIMUM UNLESS OTHERWISE INDICATED ON THE DRAWINGS. TOP BARS TO BE LAPPED AT MIDSPAN, AND BOTTOM BARS AT SUPPORTS.

3.4 REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING CONCRETE PLACEMENT OPERATIONS USING APPROVED TIES, CHAIRS, AND SPACERS AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER. USE PLASTIC TIPPED ACCESSORIES IN CONCRETE EXPOSED TO WEATHER, WATER, OR VIEW.

3.5 WHERE CONTINUOUS BARS ARE CALLED FOR, INDICATED OR OTHERWISE REQUIRED THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, DOWELED INTO INTERSECTION WALLS AND LAPPED AT NECESSARY SPLICES WITH SPLICES STAGGERED WHEREVER POSSIBLE.

4 WOOD FRAMING:

4.1 WOOD FRAMING WORK SHALL BE IN ACCORDANCE WITH STATE CODE WHICH INCORPORATES THE NATIONAL DESIGN SPECIFICATIONS OF THE NATIONAL FOREST PRODUCTS ASSOC. ALL LUMBER SHALL BE AGENCY GRADE STAMPED OF THE SPECIES AND GRADE INDICATED IN THE PROJECT SPECIFICATIONS OR HEREIN.

4.2 FRAMING SAWN LUMBER SHALL BE SPRUCE-PINE-FIR NO. 1 OR NO.2 AND/OR SOUTHERN PINE NO. 1. NO MIXTURE OF LOWER GRADES WITHIN THE THE SPECIES WILL BE ALLOWED. SAWN LUMBER SHALL BE KILN DRIED TO 15% MOISTURE CONTENT.

4.3 M/L INDICATES MICRO=LAM OR LVL LAMINATED TIMBER AS MANUFACTURED BY TJI OR GNI RESPECTIVELY, OR APPROVED EQUAL. MIN. Fb=2800 psi, Fv=250 psi, E=1,900,000 psi, Fc PERPENDICULAR TO GRAIN = 500 psi. ALL PIECES SHALL BE CONTINUOUS WITHOUT JOINTS, EXCEPT WHERE "SPLICE" IS INDICATED ON PLAN. NAIL 2-MEMBER BEAMS WITH 2 ROWS OF 16d AT 12" O.C., AND 3-MEMBER BEAMS WITH 3 ROWS OF 16d @ 12" ON EACH SIDE.

4.4 CONNECTION MATERIAL, NAILS, BOLTS, NUTS, AND WASHERS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED. ALL OTHER CONNECTIONS SHALL BE PRIME PAINTED.

4.5 UNLESS OTHERWISE NOTED, THE MINIMUM NAILING SHALL BE IN ACCORDANCE WITH THE "RECOMMENDED FASTENER SCHEDULE", APPENDIX E OF THE STATE CODE.

4.6 ALL JOISTS FRAMING INTO BEAMS OR COLUMNS SHALL BE SUPPORTED ON CODE APPROVED METAL HANGERS. NAILING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.

5 CONCRETE MASONRY:

5.1 MASONRY WORK SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-92/ASCE 5-92/TMS 402-92), AND THE SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-92/ASCE 6-92/TMS 602-92).

5.2 LOAD BEARING CONCRETE MASONRY UNITS SHALL BE EQUAL TO ASTM C90, GRADE N, TYPE I, AND SHALL HAVE A MINIMUM UNIT STRENGTH OF 2,000 psi AND AN ASSEMBLED (PRISM) COMPRESSIVE STRENGTH (f'm) = 1,500 psi WITH STONE, GRAVEL, OR LIMESTONE AGGREGATE. CINDER AGGREGATE IS NOT PERMITTED.

5.3 MORTAR SHALL COMFORM TO ASTM C270 AND SHALL BE TYPE "S" WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 psi.

5.4 GROUT MATERIAL AND PROPORTION REQUIREMENTS SHALL BE AS SPECIFIED IN ASTM C 476 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 psi AT 28 DAYS.

NO.	DATE	REVISION
1		
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5		
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7		

DEA
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CALEDONIA COUNTY
STATE AIRPORT RENOVATIONS
LYNDONVILLE, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION

SHEET DESCRIPTION	TYPICAL FRAMING PLANS & DETAILS
PROJECT NO. 99092	DATE MARCH 17, 2000
SCALE AS NOTED	
DRAWN CJT	S-1
CHECKED	