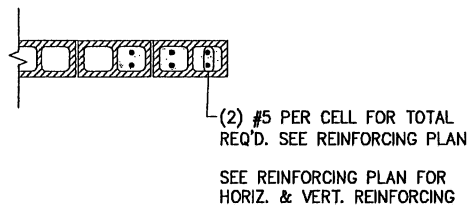


A DETAIL - REINFORCING AT CORNERS
TYP SCALE: NTS NON SHEAR WALL



B DETAIL - JAMB OR END
TYP SCALE: NTS

A. GENERAL REQUIREMENTS:

- SPECIFICATIONS: FOR MORE COMPLETE INFORMATION SEE PROJECT SPECIFICATIONS. WHERE CONFLICTS BETWEEN THESE NOTES AND THE PROJECT SPECIFICATIONS OCCUR, THE MORE STRINGENT OF THESE SHALL TAKE PRECEDENCE.
- DIMENSIONS: THE STRUCTURAL DRAWINGS SHALL BE CONSIDERED AS A PART OF THE COMPLETE SET OF CONTRACT DRAWINGS, INCLUDING THE DRAWINGS OF ALL DISCIPLINES. IT IS INTENDED THAT THE STRUCTURAL DRAWINGS WILL PROVIDE SUFFICIENT DIMENSIONS TO LOCATE THE PRIMARY STRUCTURAL ELEMENTS AND MEMBERS. LOCATION OF SECONDARY MEMBERS WHICH ARE AFFECTED BY SYSTEMS DETAILED BY OTHERS MAY REQUIRE REFERENCE TO THE DRAWINGS OF OTHER DISCIPLINES AND LAYOUT AND COORDINATION BY THE CONTRACTOR. IF DIRECT CONFLICT BETWEEN DIMENSIONS OF TWO OR MORE DISCIPLINES IS ENCOUNTERED, SUCH CONFLICTS SHALL BE RESOLVED BY THE ENGINEER. DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS OR WHERE DIMENSIONS ARE NOT PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATIONS BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- TYPICAL AND SIMILAR CONDITIONS: ALL CONCRETE IS REINFORCED, AND ALL STEEL MEMBERS ARE CONNECTED TO IMMEDIATELY ADJACENT MEMBERS SHOWN ON THE PLANS UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE SPECIFIC DETAILS ARE NOT CALLED OUT, TYPICAL DETAILS OR DETAILS SHOWN FOR SIMILAR CONDITIONS SHALL APPLY, SUBJECT TO THE STRUCTURAL ENGINEER'S APPROVAL.
- SPECIAL CONDITIONS: REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF BLOCKOUTS, INSERTS, OPENINGS, CURBS, HOUSEKEEPING PADS, DEPRESSIONS AND SLOPES NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, SPECIFICATIONS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING REQUESTED.
- DEFERRED SUBMITTALS: WHERE STRUCTURAL COMPONENTS ARE FULLY OR PARTIALLY DESIGNED AND DETAILED BY THE SUPPLIER OR FABRICATOR, COMPLETE SHOP DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. IN ADDITION, A COPY OF THESE DOCUMENTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL IN ACCORDANCE WITH IBC SECTION 106.3.4.2.
- LOADS FROM CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT LISTED IN THE DESIGN CRITERIA. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- THESE DOCUMENTS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS AS REQUIRED FOR THIS OR SIMILAR LOCALITIES. THEY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, LAGGING, SHORING, BRACING, FORM-WORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.
- ALL STRUCTURAL FILL, GRAVEL, AND BACKFILL MATERIAL AND PLACEMENT SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT (INCLUDING REQUIREMENTS FOR GEOFABRIC) AND AS DETAILED IN THE CORRESPONDING SPECIFICATIONS.
- ALL CONCRETE CONSTRUCTION, INCLUDING BENDING OF BARS, SHALL COMPLY WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 350 "ENVIRONMENTAL STRUCTURES."

B. FOUNDATIONS:

- MAXIMUM FOUNDATION SOIL BEARING PRESSURE USED = 1500 PSF.
- BACKFILL SHALL BE COMPACTED TO 95 % OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D 1557.
- FOUNDATIONS FOR THE STRUCTURES SHOWN IN THE PLANS WERE DESIGNED PER RECOMMENDATIONS AS PROVIDED IN THE GEOTECHNICAL REPORT. FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER RECOMMENDED BY THE GEOTECHNICAL REPORT AND ANY ADDENDA SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS.
- EXCAVATION AND EARTHWORK REQUIRED PRIOR TO CONSTRUCTION OF FOUNDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

C. CONCRETE:

- MIX DESIGN SHALL BE ESTABLISHED IN ACCORDANCE TO CHAPTER 5 OF ACI 318.
- CEMENT SHALL CONFORM TO SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE AND ASTM C150
- CONCRETE AGGREGATES SHALL CONFORM TO SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE AND ASTM C33
- MAXIMUM AGGREGATE SIZE SHALL BE PER SPECIFICATIONS
- THE MAXIMUM WATER TO CEMENTITIOUS MATERIALS RATIO, BY WEIGHT SHALL BE 0.42
- MIN. 28 DAY COMPRESSIVE STRENGTH, F'_c , SHALL BE 4000 PSI FOR STRENGTH AND DURABILITY. DESIGN CALCULATIONS BASED OFF OF $F'_c = 2500$ PSI.
- CONCRETE MIX SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER PER THE SPECIFICATIONS.
- MAXIMUM SLUMP SHALL BE PER THE SPECIFICATIONS.
- MAXIMUM ALLOWABLE TIME BETWEEN CONCRETE BATCHING AND PLACEMENT SHALL BE PER THE SPECIFICATIONS.
- MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET.
- ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS. ANY ANCHOR BOLTS, NAILS AND SCREWS INTO OR THROUGH PRESSURE-TREATED WOOD SILL PLATES SHALL BE STAINLESS STEEL OR HOT DIPPED ZINC COATED GALVANIZED STEEL.
- PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER IN ACCORDANCE WITH ACI 305 AND 306.
- TOTAL AIR CONTENT OF CONCRETE SHALL NOT BE LESS THAN 5 PERCENT AND NOT MORE THAN 7 PERCENT.
- MINIMUM CONCRETE COVER OVER REINFORCEMENT:
 - CONCRETE CAST AGAINST EARTH..... 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER..... 1 1/2"
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER..... 3/4"
 - BEAMS AND COLUMNS..... 1 1/2"

D. MASONRY:

- SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, f_m , SHALL BE 1500 PSI. ALL CONCRETE BLOCK, GROUT, AND MORTAR SHALL CONFORM TO IBC TABLE 2105.2.2.1.2 TO ACHIEVE THE SPECIFIED COMPRESSIVE STRENGTH. STRUCTURAL MASONRY SHALL BE HOLLOW, MEDIUM WEIGHT (115 PSF) LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.
- MORTAR MIX SHALL CONFORM TO ASTM C270 TYPE M OR S. TYPE S MORTAR SHALL BE USED WHERE MASONRY IS IN CONTACT WITH SOIL.
- GROUT SHALL CONFORM TO REQUIREMENTS OF ASTM C476. MINIMUM GROUT COMPRESSIVE STRENGTH SHALL MATCH OR EXCEED f_m BUT SHALL NOT BE LESS THAN 2,500 PSI. ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID. ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID. USE SUFFICIENT WATER FOR GROUT FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. ALL ITEMS TO BE CAST IN MASONRY SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. SHALL BE SECURELY POSITIONED TO PREVENT LATERAL DISPLACEMENT DURING GROUTING.
- THERE SHALL BE A MINIMUM OF (1) #5 ON ALL SIDES OF AND ADJACENT TO, EVERY OPENING WHICH IS LESS THAN 48" IN BOTH DIRECTIONS. WHERE THE OPENING IS 48" IN EITHER DIRECTION, A MINIMUM OF (2) #5 BAR SHALL BE USED, ONE BAR IN EACH OF THE FIRST TWO CELLS. IN EITHER CASE SUCH BARS SHALL EXTEND NOT LESS THAN 24" BEYOND THE CORNER OF THE OPENING.
- ALL REINFORCING SHALL BE PLACED PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT INTERVALS NOT FARTHER APART THAN 200 BAR DIAMETERS.
- THERE SHALL BE A MINIMUM OF 1" OF GROUT ALL THE WAY AROUND ALL ANCHOR BOLTS.
- SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.5. LEVEL 1 SPECIAL INSPECTION REQUIRED PER IBC TABLE 1704.5.1. THE INSPECTOR SHALL BE A QUALIFIED PERSON FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR AT LEAST 24 HOURS NOTICE PRIOR TO PERFORMING ANY WORK REQUIRING SPECIAL INSPECTION.

E. REINFORCING

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STEEL WORK SHALL CONFORM WITH AISC SPECIFICATIONS
- PLATES AND SHAPES ASTM A36.
- USE E70 ELECTRODES FOR ALL STRUCTURAL STEEL WELDS.
- BOLTS ASTM A307 FOR CONNECTIONS TO CONCRETE, BOLTS ASTM A325 FOR STEEL TO STEEL CONNECTIONS. BOLTS TO BE SNUG TIGHT EXCEPT BOLTS INDICATED AS S.C. TO BE FULLY TIGHTENED.
- LAP SPLICES SHALL BE IN ACCORDANCE WITH TYPICAL REBAR LAP/HOOK SCHEDULE SHOWN ON SHEET ST6.
- REINFORCING STEEL SHALL CONFORM TO REQUIREMENTS OF SPECIFICATIONS AND SHALL BE ASTM A615 GRADE 60 ($F_y = 60$ KSI) FOR #5 BARS AND LARGER AND GRADE 40 ($F_y = 40$ KSI) FOR #4 AND SMALLER.
- ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL.
- MECHANICAL SPLICE COUPLERS SHALL HAVE CURRENT ICC APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENGTH OF THE BAR. ENGINEER OF RECORD TO APPROVE USE OF COUPLERS PRIOR TO INSTALLATION.
- ALL BENDING OF REINFORCING SHALL BE PER CONCRETE REINFORCEMENT SPECIFICATION. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE UNBENT AND RE-BENT. FIELD BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED.
- REINFORCING BAR SPACING SHOWN ON PLANS ARE MAX. ON CENTERS. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. MIN. CLEAR SPACING SHALL BE THE LARGER OF 1-1/2 TIMES NOMINAL BAR DIAMETER OR 1-1/3 TIMES THE MAX. AGGREGATE SIZE OR 1-1/2".

DESIGN CRITERIA:

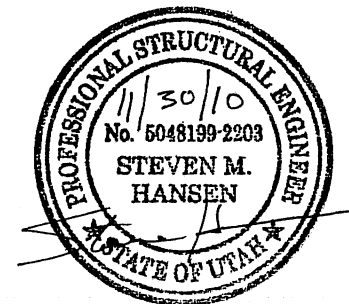
- BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE.
- DESIGN LOADS:
ROOF:
D.L. = 18 PSF, L.L. = 20 PSF, SNOW = 71 PSF (SLOPED ROOF)


SEISMIC CRITERIA:

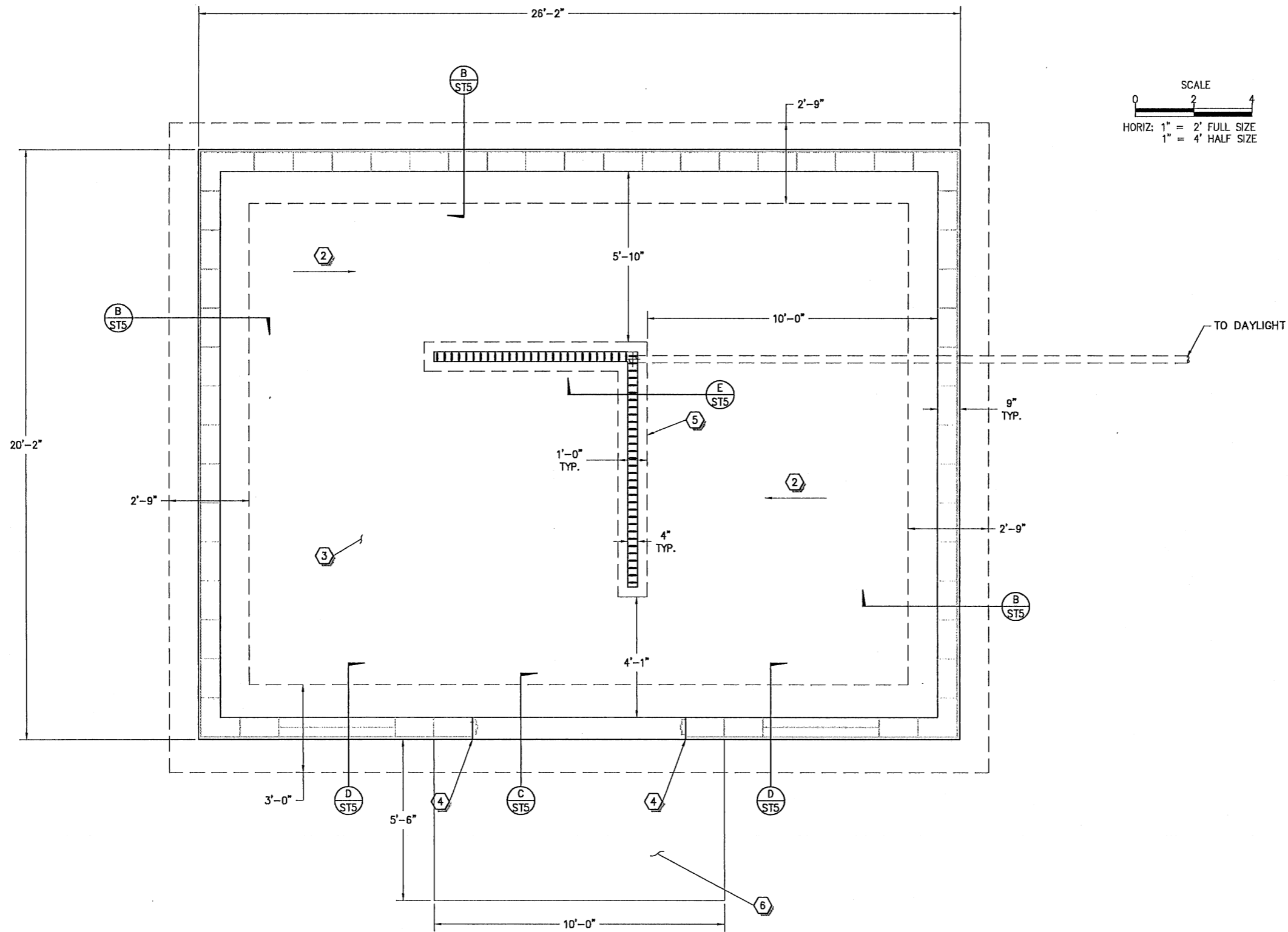
- SS=0.635 FA=1.292 SITE CLASS D
S1=0.228 FV=1.944 SEISMIC DESIGN CATEGORY D

WIND CRITERIA:

- SIMPLIFIED WIND LOAD METHOD: 90 MPH



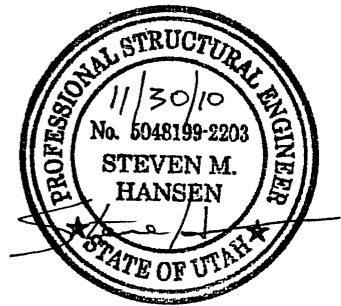
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 SUNRISE ENGINEERING 12227 SOUTH BUSINESS PARK DRIVE, SUITE 220 DRAPER, UTAH 84020 TEL 801.523.0100 • FAX 801.523.0990 www.sunrise-eng.com		
CROYDON PIPELINE COMPANY HILL TOP WELL #1 BOOSTER PUMP BUILDING		
SEI NO. 03562	DESIGNED LDP	DRAWN AAD
CHECKED LDP	SHEET NO. 11 of 30	ST1



A PLAN - FOUNDATION
ST2

CONSTRUCTION NOTES

- 1 COORDINATE/VERIFY ALL DIMENSIONS W/ ENGINEER
- 2 SLOPE FLOOR TOWARDS DRAIN SUMP @ 1/8" PER LN. FT.
- 3 6" CONCRETE SLAB WITH #4 BARS @ 12" O.C. BOTH WAYS.
- 4 STEP IN FOUNDATION WALL ELEVATION, REFER TO DETAIL C ON ST5
- 5 ABT POLYDRAIN DRAINAGE SYSTEM WITH SLOTTED GRATE OR APPROVED EQUAL.
- 6 6" CONCRETE SLAB AT ENTRANCE



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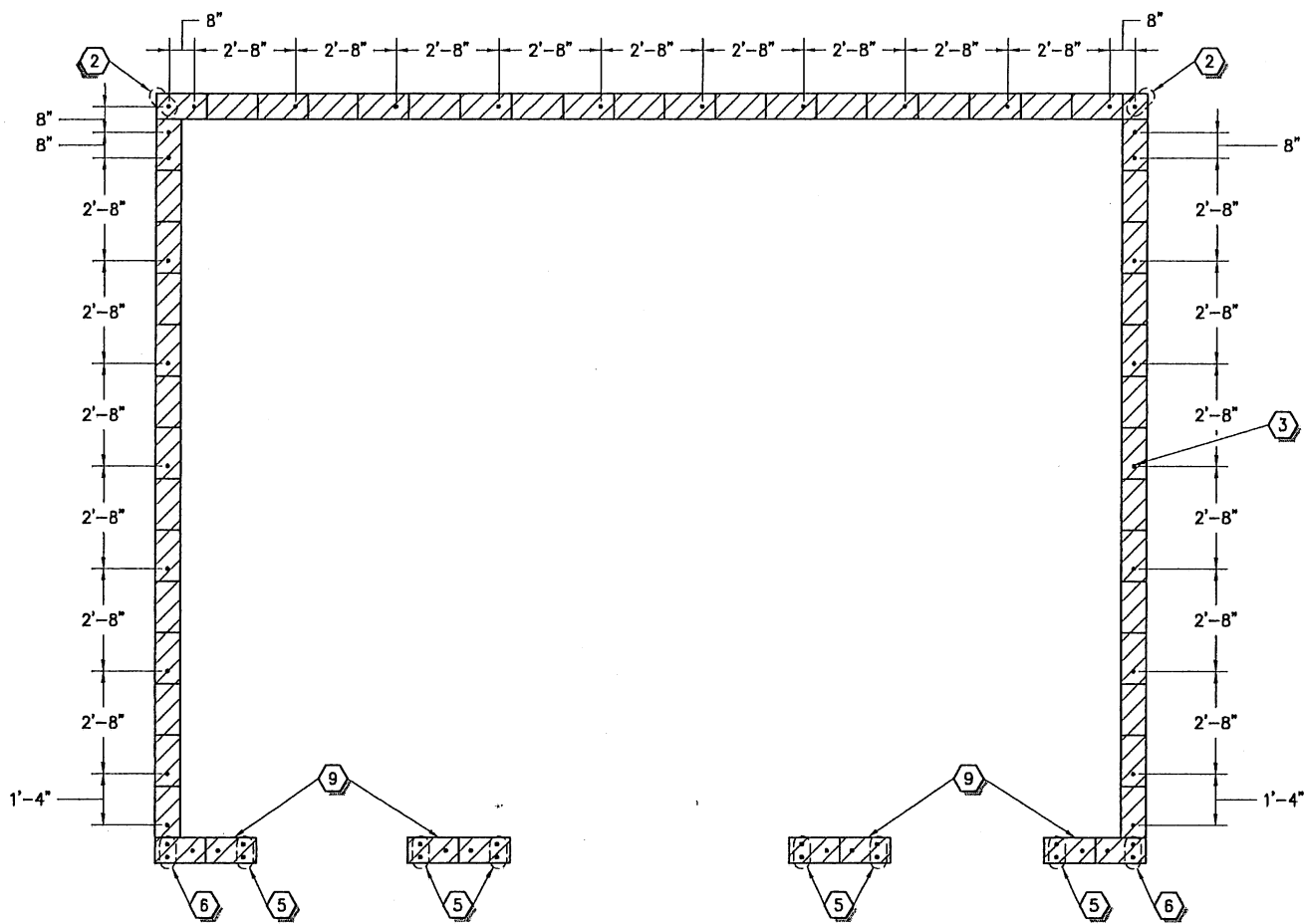
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 BOOSTER PUMP BUILDING

REV NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	ST2
03562	LDP	AAD	LDP	12 of 30	

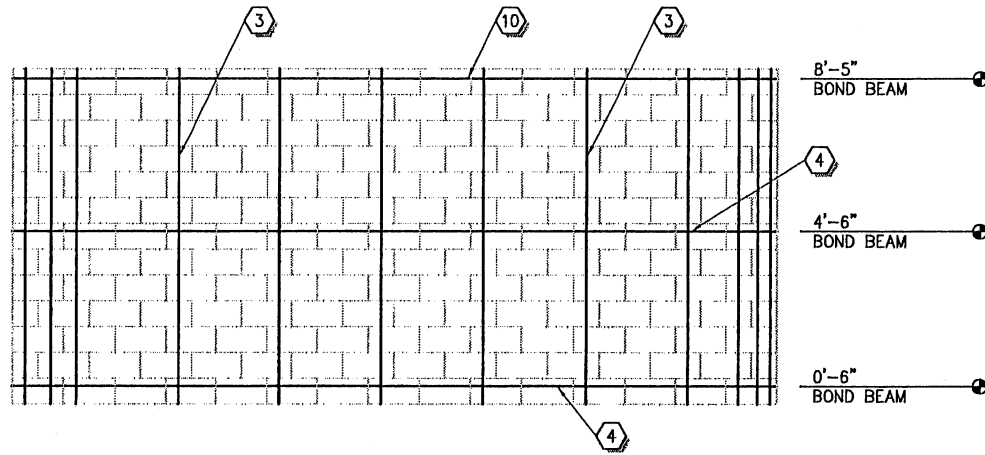
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CONSTRUCTION NOTES

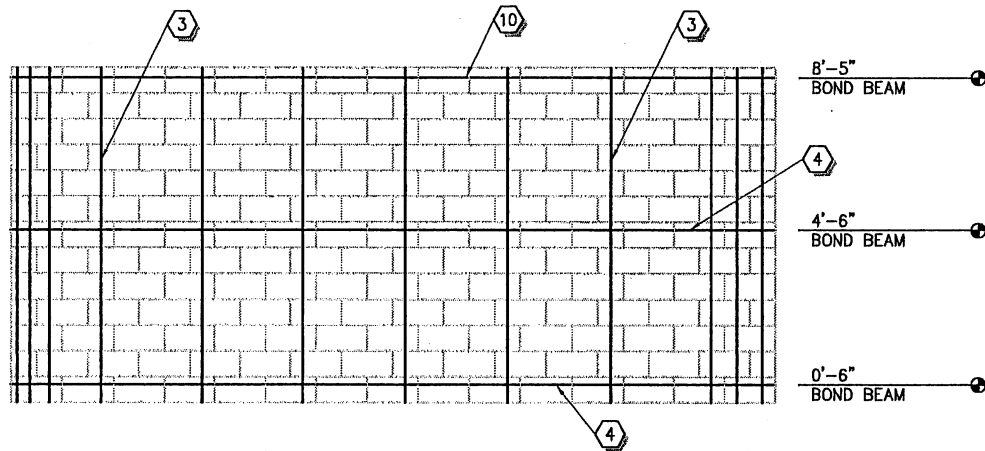
- 1 COORDINATE/VERIFY ALL DIMENSIONS W/ ENGINEER.
- 2 REFER TO DETAILS A & B ON SHEET ST1 FOR ALL TYPICAL CORNER & JAMB CONDITIONS.
- 3 ALL VERTICAL WALL REINFORCING ARE #5 BARS @ 32" O.C. U.N.O. REFER TO STRUCTURAL NOTES & DETAILS.
- 4 ALL HORIZONTAL WALL REINFORCING SHALL BE # 5 BAR IN BOND BEAM @ 48" O.C. REFER TO STRUCTURAL NOTES.
- 5 (1) CELL WITH (2) #5 BARS EACH SIDE OF OPENING AS SHOWN.
- 6 (1) CELL WITH (2) #5 BARS AT END OF SHEAR WALL.
- 7 LINTEL REINFORCING PER LINTEL SCHEDULE ON ST4. EXTEND 2'-0" MIN. BEYOND OPENING.
- 8 PROVIDE (1) #5 IN BOND BEAM BENEATH OPENING. EXTEND REINFORCEMENT 2'-0" MIN. BEYOND OPENING.
- 9 SOLID GROUT ALL CELLS OF SHEAR WALLS FULL HEIGHT OF WALL.
- 10 PROVIDE (2) #5 AT BOND BEAM AT TOP OF WALL.



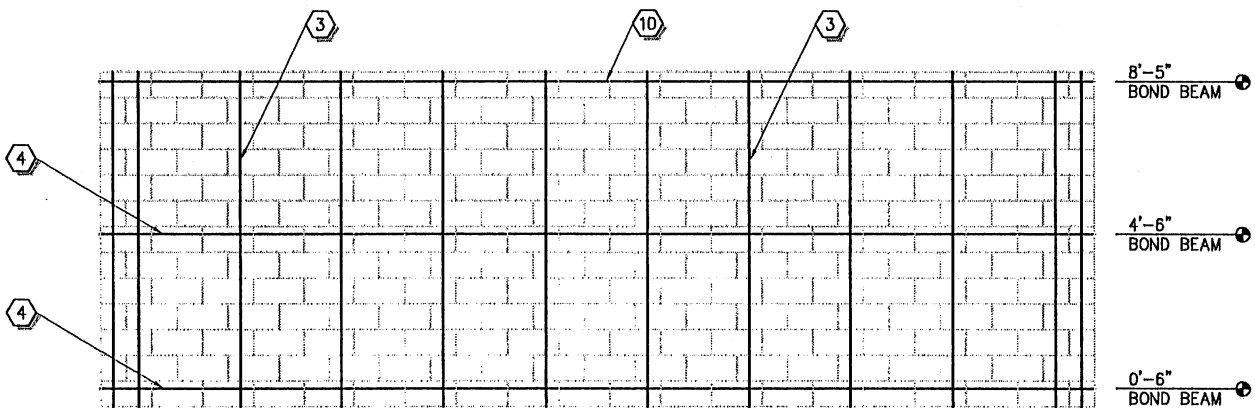
A PLAN - REINFORCING
SCALE: 1"=30' FULL - 1"=60' HALF



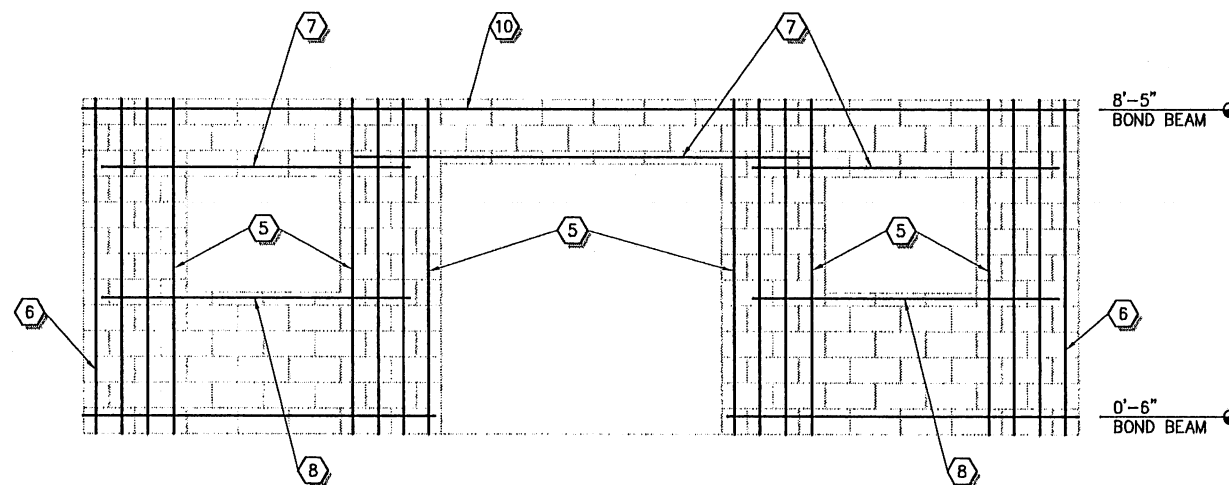
B WEST ELEVATION REINFORCING
SCALE: 1"=30' FULL - 1"=60' HALF



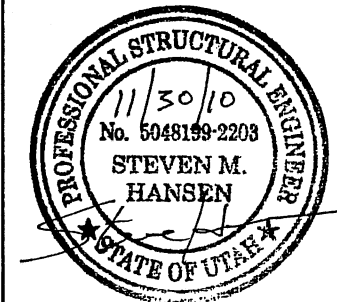
C EAST ELEVATION REINFORCING
SCALE: 1"=30' FULL - 1"=60' HALF



D NORTH ELEVATION REINFORCING
SCALE: 1"=30' FULL - 1"=60' HALF



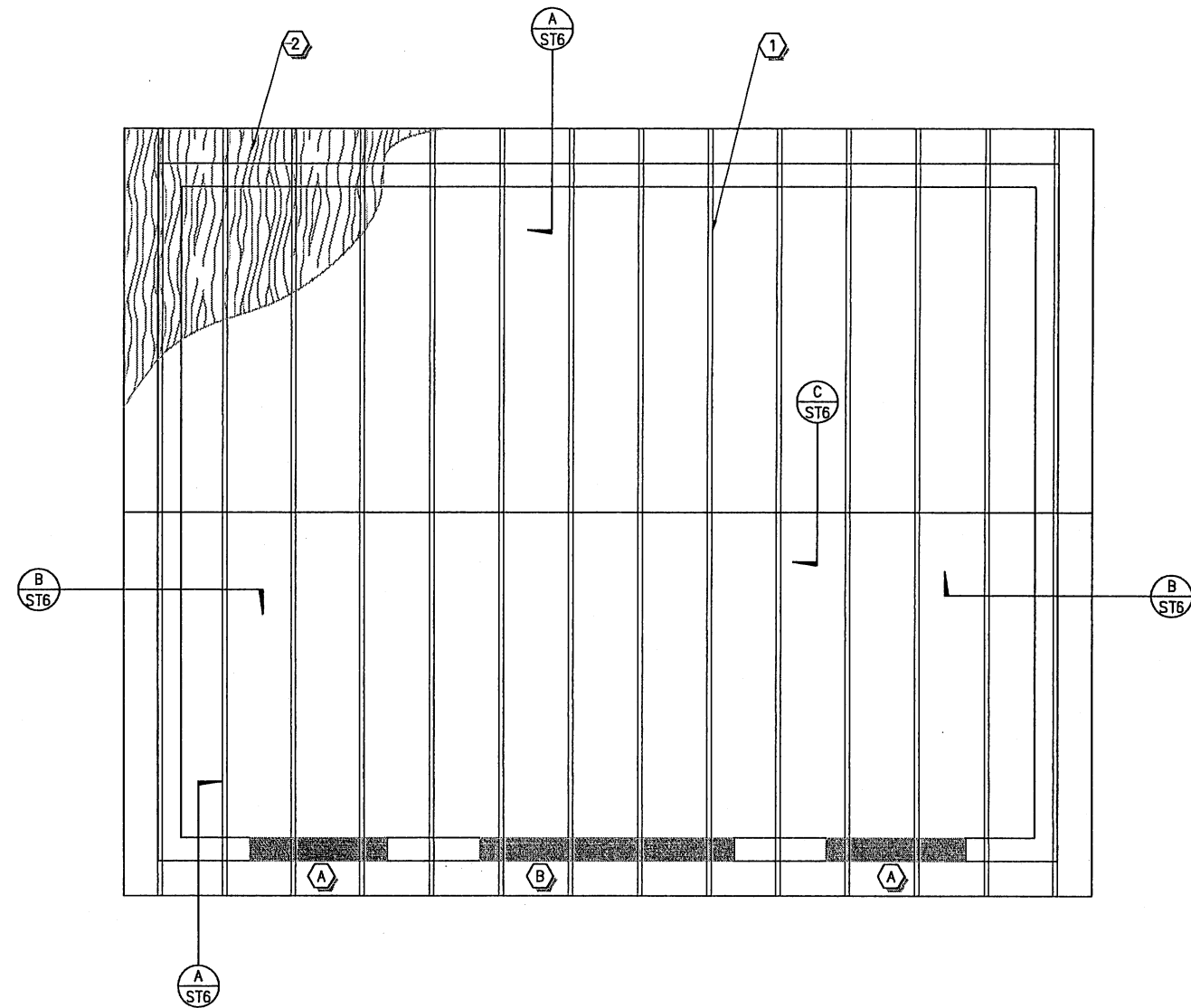
E SOUTH ELEVATION REINFORCING
SCALE: 1"=30' FULL - 1"=60' HALF



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<p>CROYDON PIPELINE COMPANY</p> <p>HILL TOP WELL #1 BOOSTER PUMP BUILDING</p>		
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CHECKED LDP	SHEET NO. 13 of 30	ST3

CONSTRUCTION NOTES

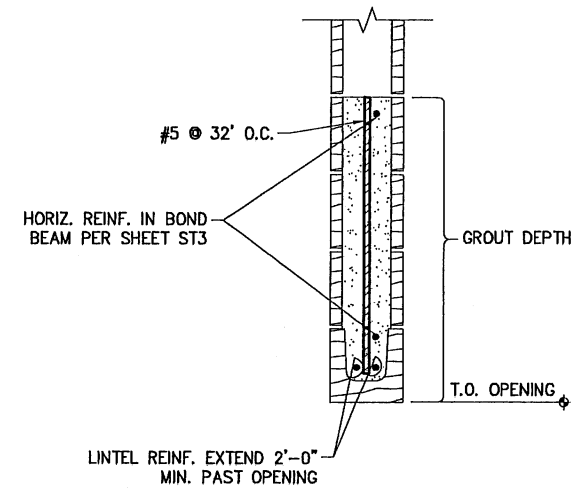
- ① PRE-FABRICATED WOOD TRUSSES @ 24" O.C.
- ② 5/8" PLYWOOD SHEATHING OR O.S.B. WITH 10d EDGE & BOUNDARY NAILS @ 6" O.C.



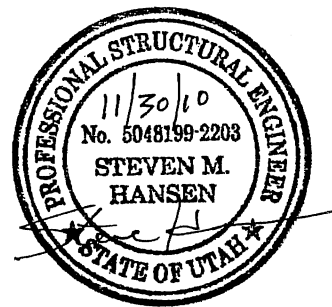
A PLAN - FRAMING
SCALE: 1" = 30'

BOUNDARY NAILING: 10d AT 6" O.C. MIN.

LINTEL	OPENING	LINTEL REINF.	GROUT DEPTH (in)
A	4'-0"	(1) #5	24"
B	7'-4"	(2) #5	24"



B LINTEL SCHEDULE
SCALE: NTS



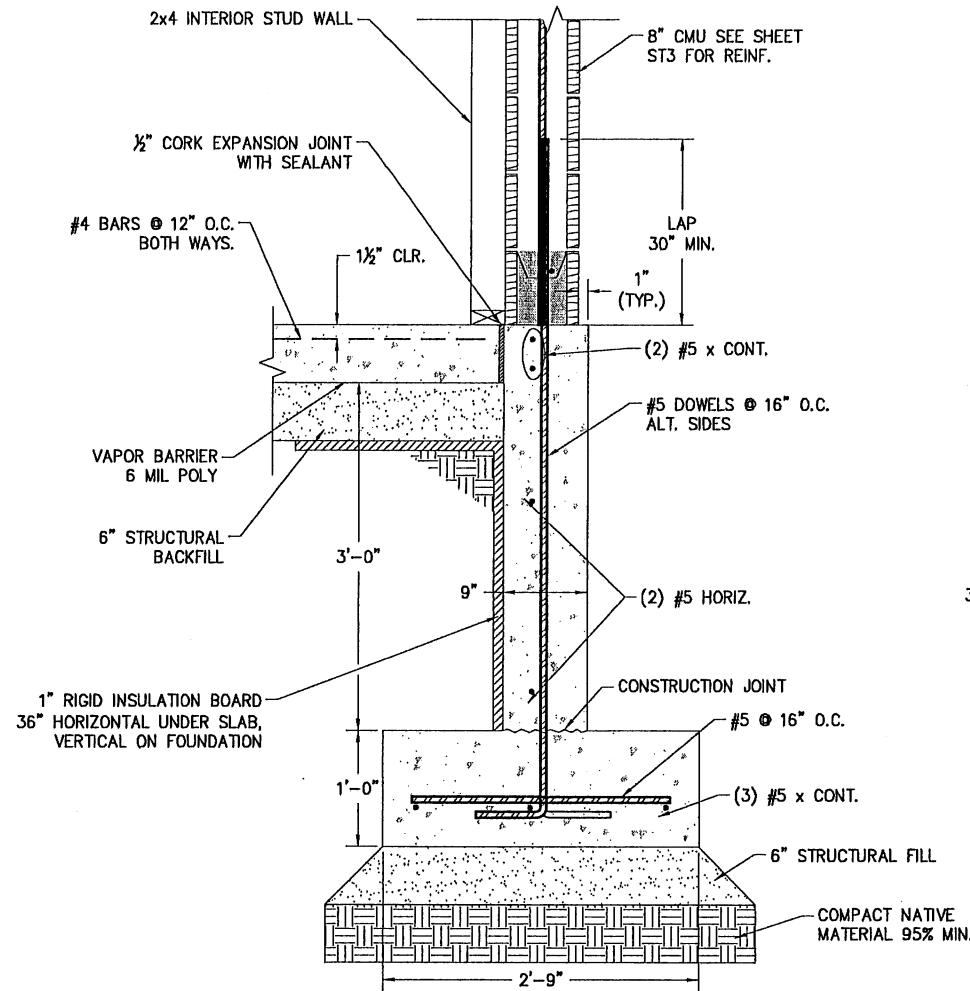
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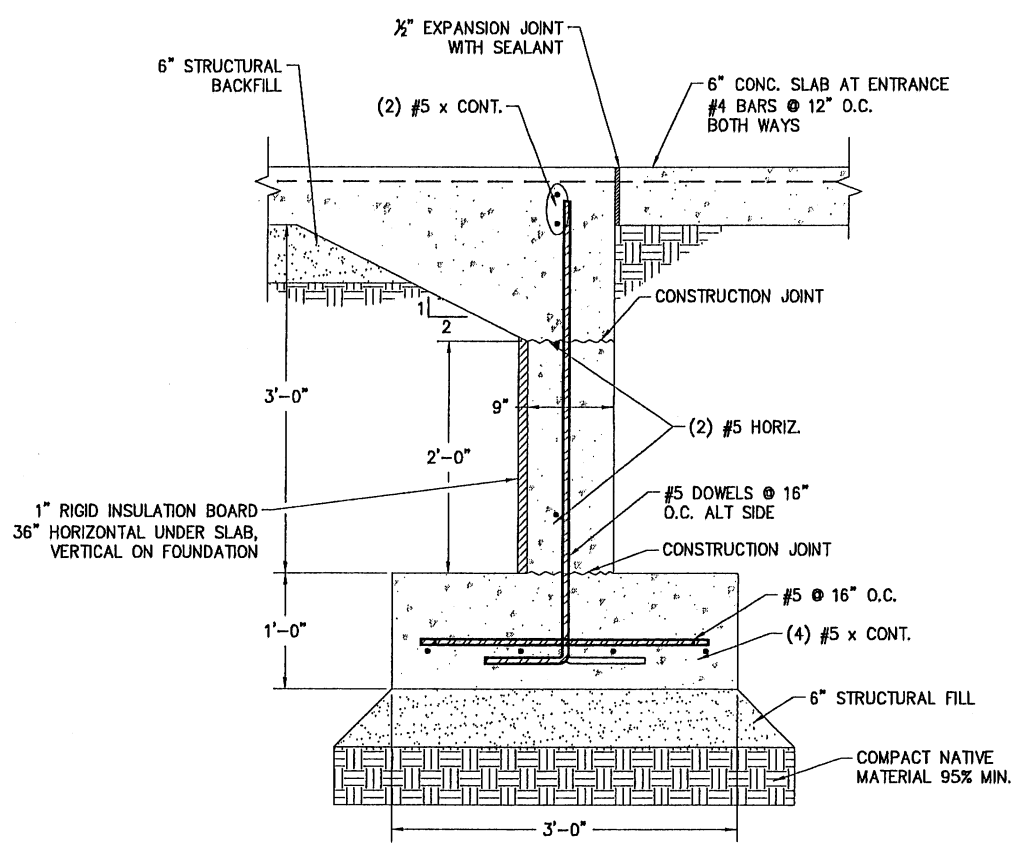
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BOOSTER PUMP BUILDING

SET NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	
03562	LDP	AAD	LDP	14 of 30	ST4

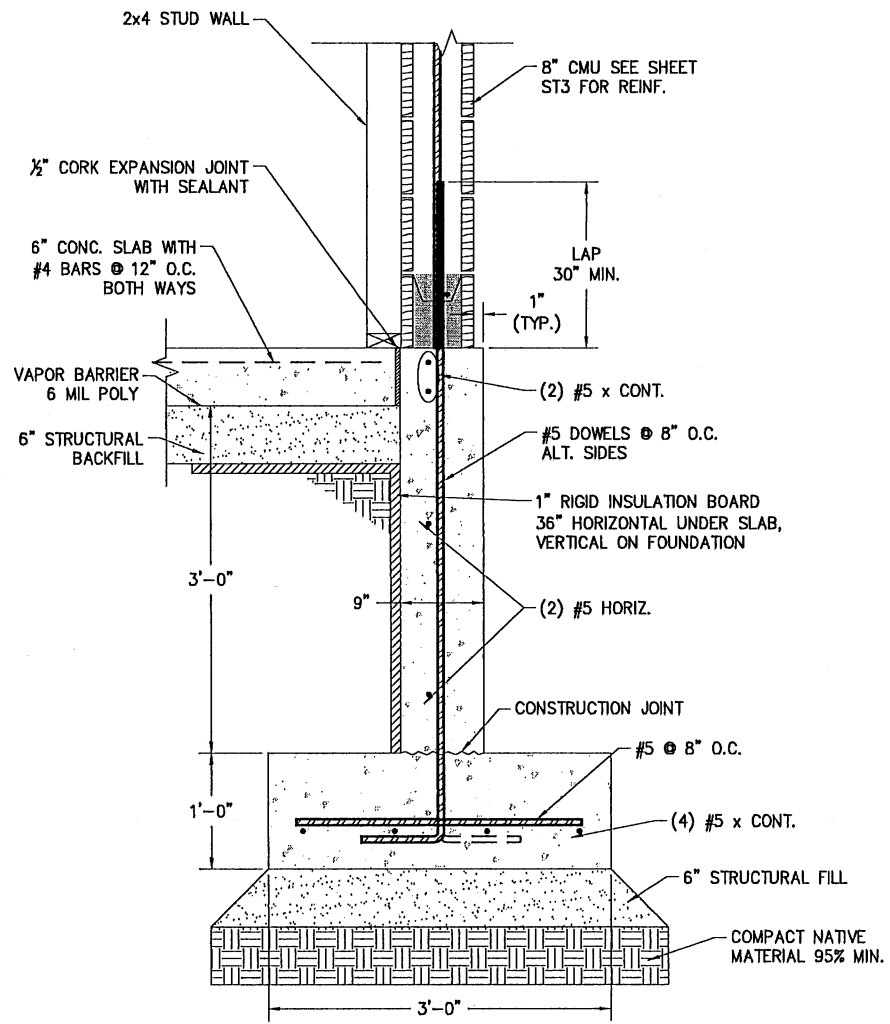
A DETAIL - NOT USED
ST2 SCALE: N.T.S.



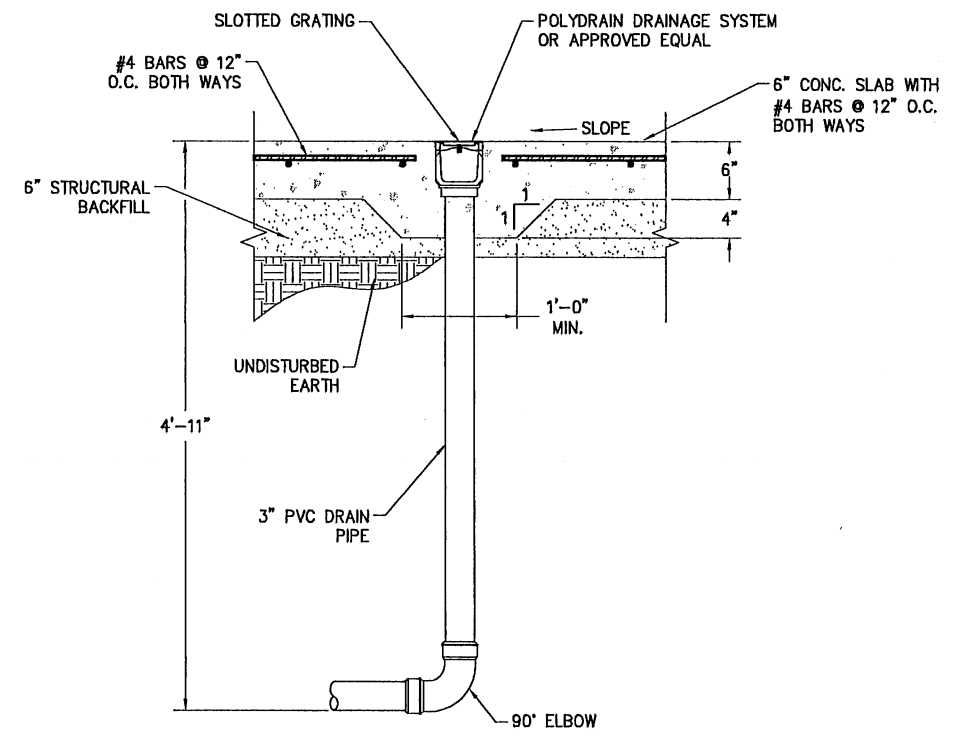
B DETAIL - FOOTING
ST2 SCALE: N.T.S.



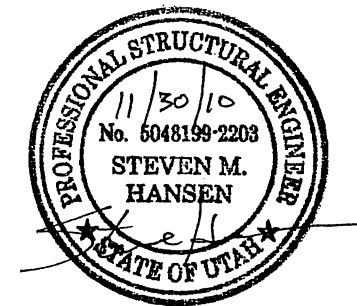
C DETAIL - FOOTING AT DOORWAY
ST2 SCALE: N.T.S.



D DETAIL - FOOTING AT SHEARWALL
ST2 SCALE: N.T.S.

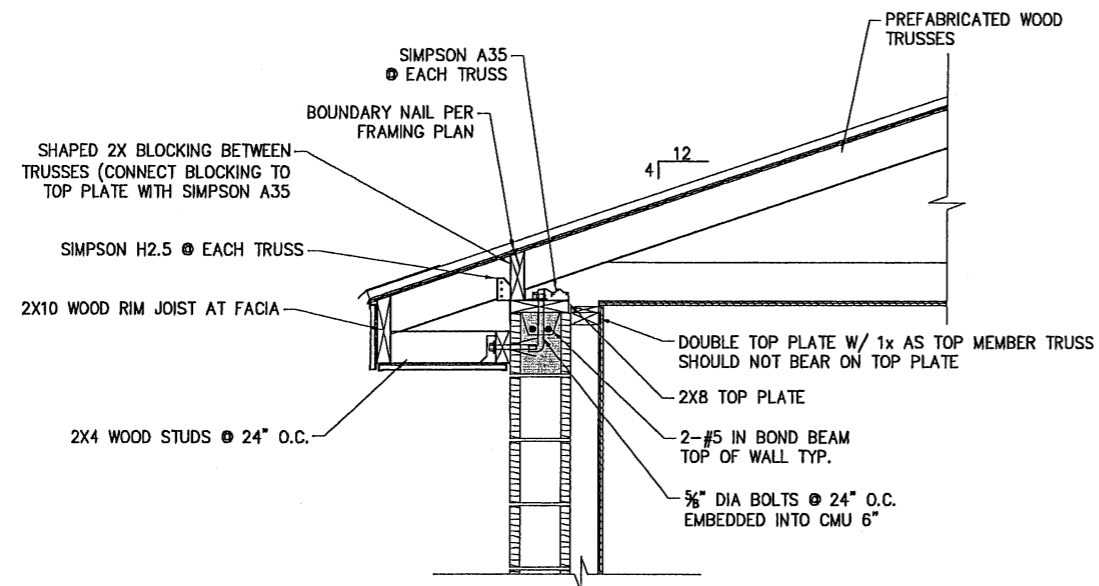


E DETAIL - DRAIN SUMP AND FLOOR DRAIN
TYP SCALE: N.T.S.



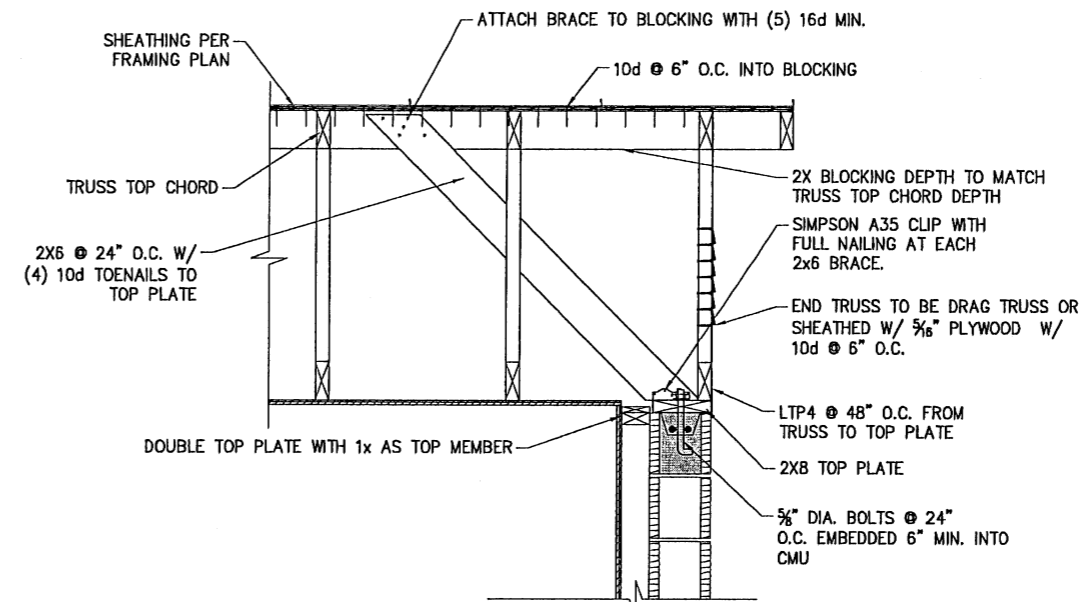
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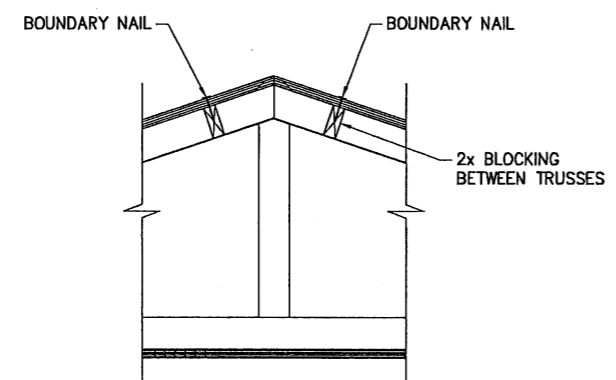


A SECTION - ROOF TO WALL CONNECTION AT EAVE
 ST4 SCALE: N.T.S.

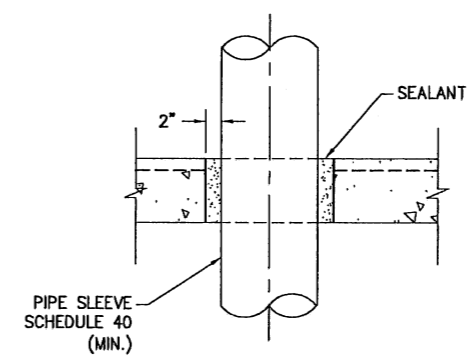
NOTE:
 TRUSS SHALL BEAR ON MASONRY WALL, NOT THE INTERIOR WOOD WALL.



B SECTION - ROOF TO WALL CONNECTION
 TYP SCALE: N.T.S.



C DETAIL - RIDGE BLOCKING
 TYP SCALE: N.T.S.



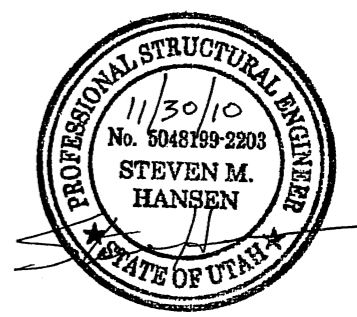
F DETAIL - PIPE PENETRATION
 TYP SCALE: N.T.S.

TYPICAL REBAR LAP/HOOK SCHEDULE

BAR SIZE	BARS IN CONCRETE		BARS IN MASONRY	
	LAP LENGTH	HOOK	LAP LENGTH	
#4	31"	6"	24"	
#5	39"	8"	48"	
#6	47"	9"	MECH. COUPLER	
#7	69"	12"	MECH. COUPLER	

- NOTES:
1. CONCRETE LAP LENGTHS BASED ON ACI 318 SECTION 12.2.3 WITH CLASS B LAP SPLICE PER SECTION 12.15 FOR NORMAL WEIGHT CONCRETE, UNCOATED BARS, AND MINIMUM CONCRETE STRENGTH OF 2500 PSI
 2. CONCRETE LAP LENGTHS ASSUME 1-1/2" MIN. CLEAR
 3. MASONRY LAP LENGTHS PER INTERNATIONAL BUILDING CODE

H TYPICAL REBAR LAP / HOOK SCHEDULE
 TYP SCALE: N.T.S.



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