

S & S FOOD STORE NO. 28

41/441 SOUTH

LAKE CITY, FLORIDA

CRAIG SALLEY AND ASSOCIATES
ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
3911 NEWBERRY ROAD • GAINESVILLE, FLORIDA • UC. NO. AA0002779 • 352-372-8424



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41/441 SOUTH
LAKE CITY, FLORIDA

Craig Salley
10/21/03

CRAIG SALLEY, R.A.

DATE

10/21/03

DRAWN

JM, MZ, CP

APPROVED

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0335

G-1

OF

SHEETS 10

APPROVED

(Subject to Revisions)

Inspection Department

Lake City Fire Dept.

State Fire Inspector

License # 48544

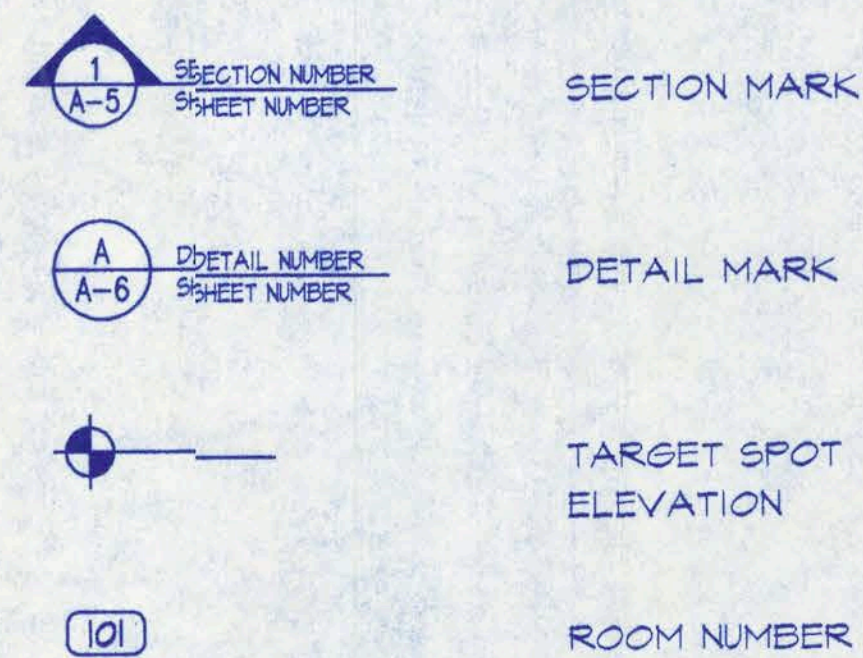
By *Ch. Smith* Date: 8/17/06

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ABBREVIATIONS (ARCHITECTURAL)

AB.	Anchor Bolt	FL.	Floor	(R)	Relocated Item
A/C	Air Conditioned	F.S.	Full Size	R	Riser
ACT.	Acoustical Ceiling Tile	FTB.	Footing	R.D.	Roof Drain
A.C.U.	Air Conditioning Unit	GA.	Gauge	RECEP.	Receptacle
AD.	Access Door	GB.	Grab Bar	REF.	Refrigerator
Adj.	Adjustable	G.I.	Galvanized Iron	REG.	Reglet
ALUM.	Aluminum	GL.	Glass	REINF.	Reinforcing Reinforced
AP.	Access Panel	GR.	Grade	REQ'D.	Required
A.T.	Acoustical Tile	GYP.	Gypsum	RM.	Room
B.B.D.	Bulletin Board	H/C, H.C.	Handicap	R.O.	Rough Opening
BLDG.	Building	HTG.	Heating	S.C.	Special Coating
BRS.	Bearing	HM.	Hollow Metal	SCHD.	Schedule
B.U.R.	Built Up Roof	HN.	Hardware	SH.	Shelving Shelf
CONC.	Concrete	HB.	Hose Bibb	SIM.	Similar
CAB.	Cabinet	ID.	Inside Diameter	SPEC(S)	Specification(s)
C.B.	Chalk Board	INSUL.	Insulation	S + R	Shell & Rod
CEM.	Cement	INT.	Interior	STRUCT.	Structural
C.I.	Cast Iron	I.P.S.	Inside Pipe Size	S/S.S.S	Stainless Steel
C.G.	Corner Guard	JT.	Joint	STL.	Steel
C.J.	Control Joint	K.P.	Kick Plate	T.B.	Tackboard
C.L.	Chain Link	LAV.	Lavatory	TBL.	Telephone
CLG.	Ceiling	LW.	Lightweight	TEMP.	Tempered
CL.G.	Clear Glass	LX.	Lightweight	THLD.	Threshold
CLO.	Closet	MAR.	Marble	TOILT.	Toilet
CMU.	Concrete Masonry Unit	MAX.	Maximum	TYP.	Typical
COL.	Column	M.B.	Markerboard	VEST.	Vestibule
CONT.	Continuous	MECH.	Mechanical	V.T.	Vinyl Tile
CONST.	Construction	MTL.	Metal	V.T.R.	Vent Through Roof
OPT.	Carpet	MFR.	Manufacturer	V.P.B.	Veneer Plaster Board
C.T.	Ceramic Tile	MIN.	Minimum	WC.	Water Closet
CTR.	Counter	MISC.	Miscellaneous	WC	Wheel Chair
D.F.	Drinking Fountain	M.L.D.	Molding	WD.	Wood
DIA.	Diameter	M.O.	Masonry Opening	WD.	Window Dimension
DIAG.	Diagonal	MOD.	Modified	WI.	Wrought Iron
Dim.	Dimension	MT.	Metal Threshold	WP.	Waterproofing
DISP.	Dispenser	MTD.	Mounted		
D.S.	Downspout	(N)	New		
DWG.	Drawings	N.I.C.	Not In Contract		
		NOM.	Nominal		
E.F.S.	Exterior Finish System	OB.	Obscure		
ELEC.	Electrical	O.C.	On Center		
ELEV.	Elevation	O.D.	Outside Diameter		
E.J.	Expansion Joint	OPNG.	Opening		
EP.	Electric Panel	OPP.	Opposite		
EPY.	Epoxy Coating	PARTNS.	Partitions		
EQUIP.	Equipment	P.B.	Peg Board		
(E) D.	Existing	PL.	Plate		
EXSTG.	Existing	PLAS.	Plaster		
EXT.	Exterior	PLYND.	Plywood		
E.M.C.	Electric Motor Cooler	PORT.	Portable		
EXP.	Exposed, Expansion	P.P.S.	Polished Plate Glass		
		P.R.V.	Power Roof Ventilator		
F.P.	Formed and Poured	P.S.	Pipe Space		
F.A.I.	Fresh Air Intake	P.W.	Pipe Window		
F.D.	Floor Drain	Q.T.	Quarry Tile		
F.E.	Fire Extinguisher				
FIN.	Finish				

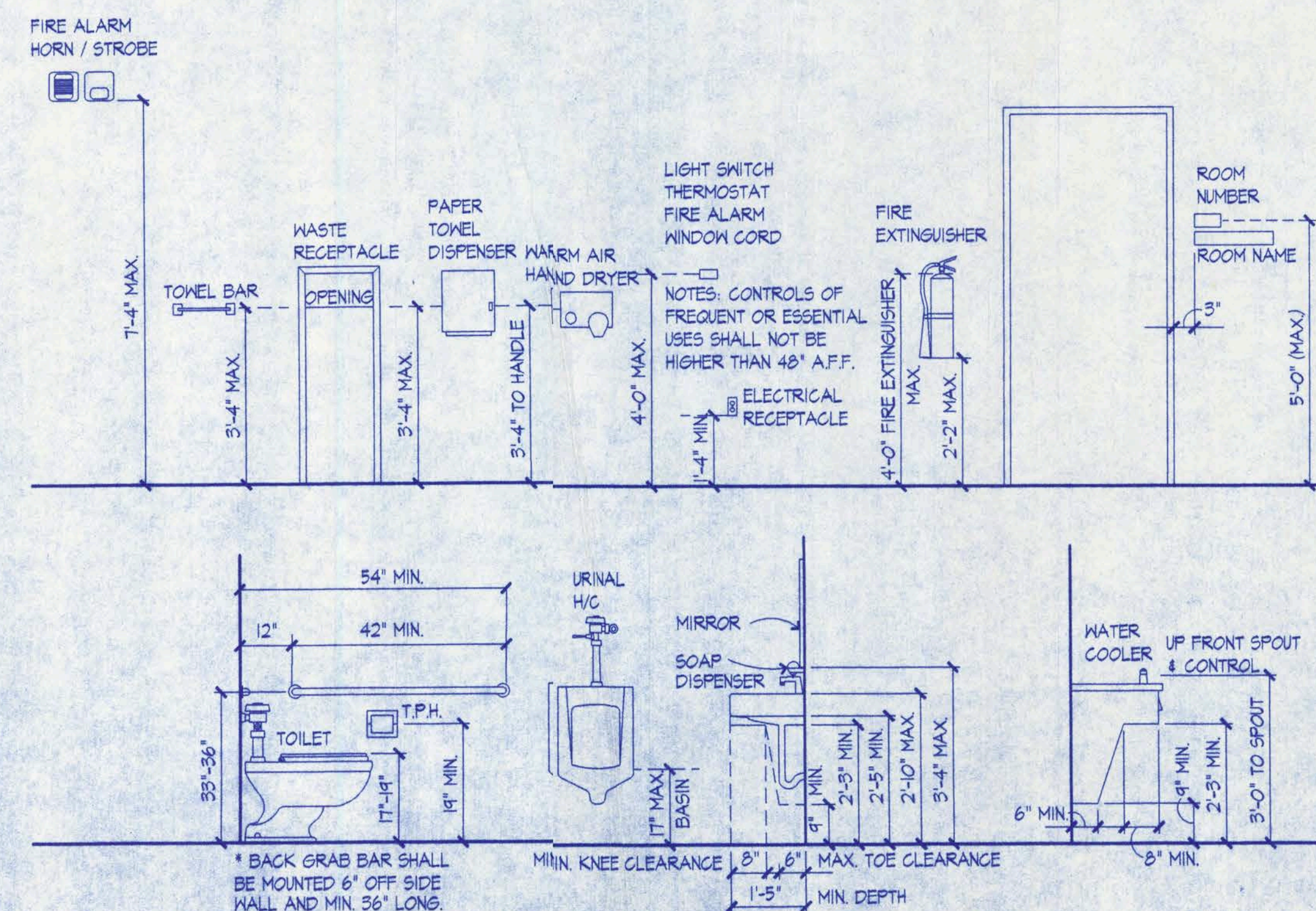
SYMBOLS LEGEND



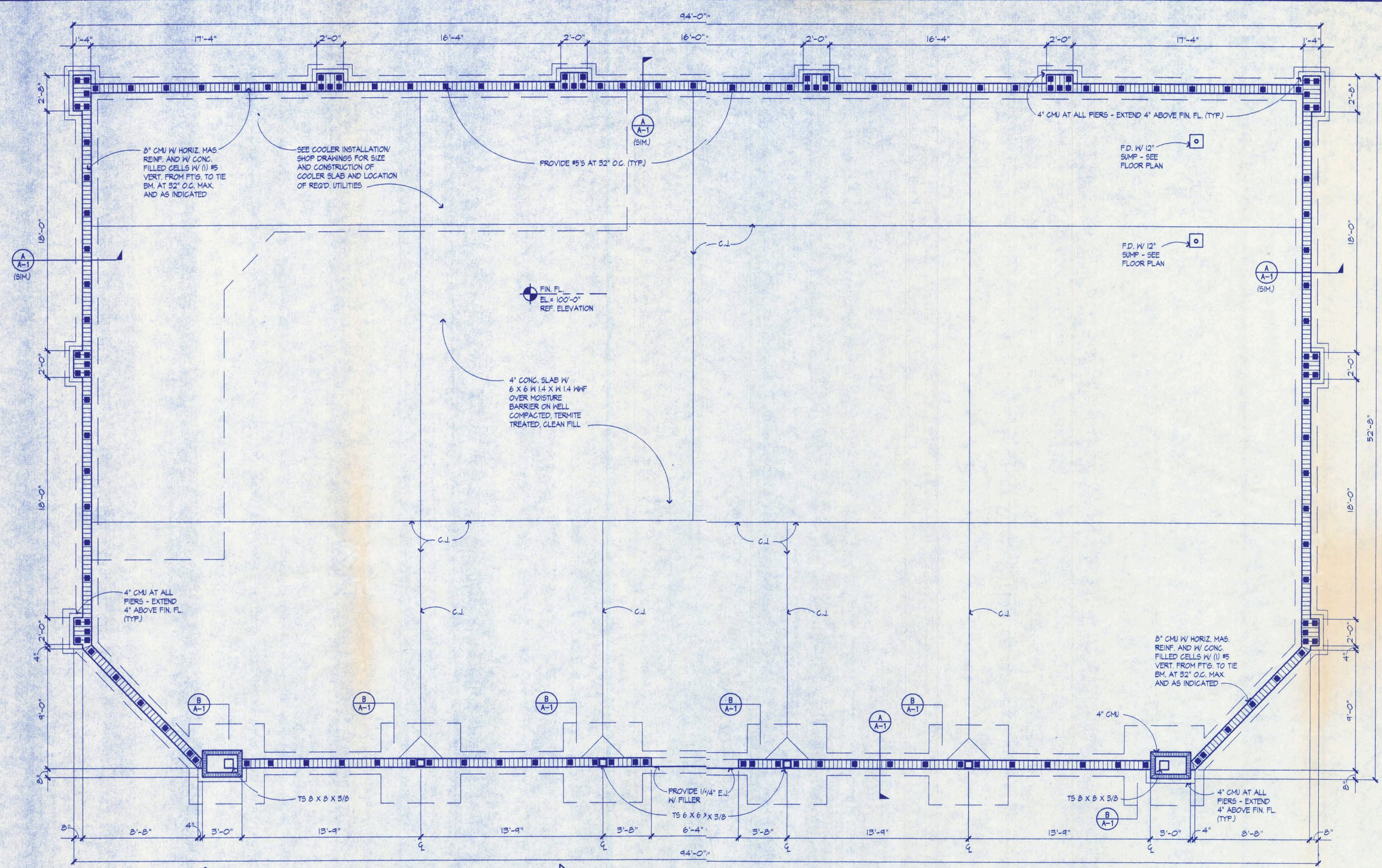
SHEET INDEX

- G-1 PROJECT COVER SHEET
- A-1 FOUNDATION PLAN AND DETAILS
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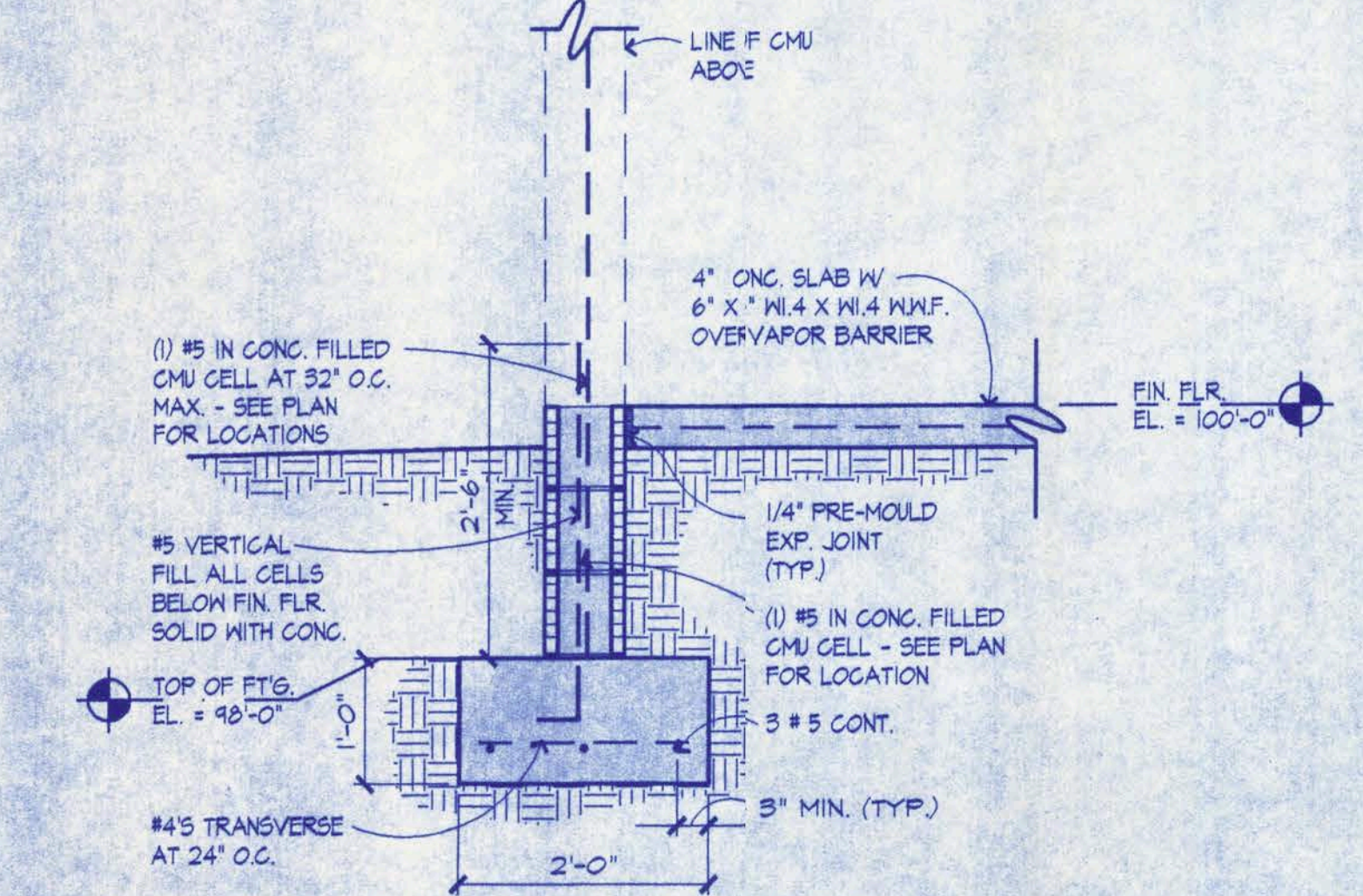
STANDARD MOUNTING PER A.D.A. REQUIREMENTS



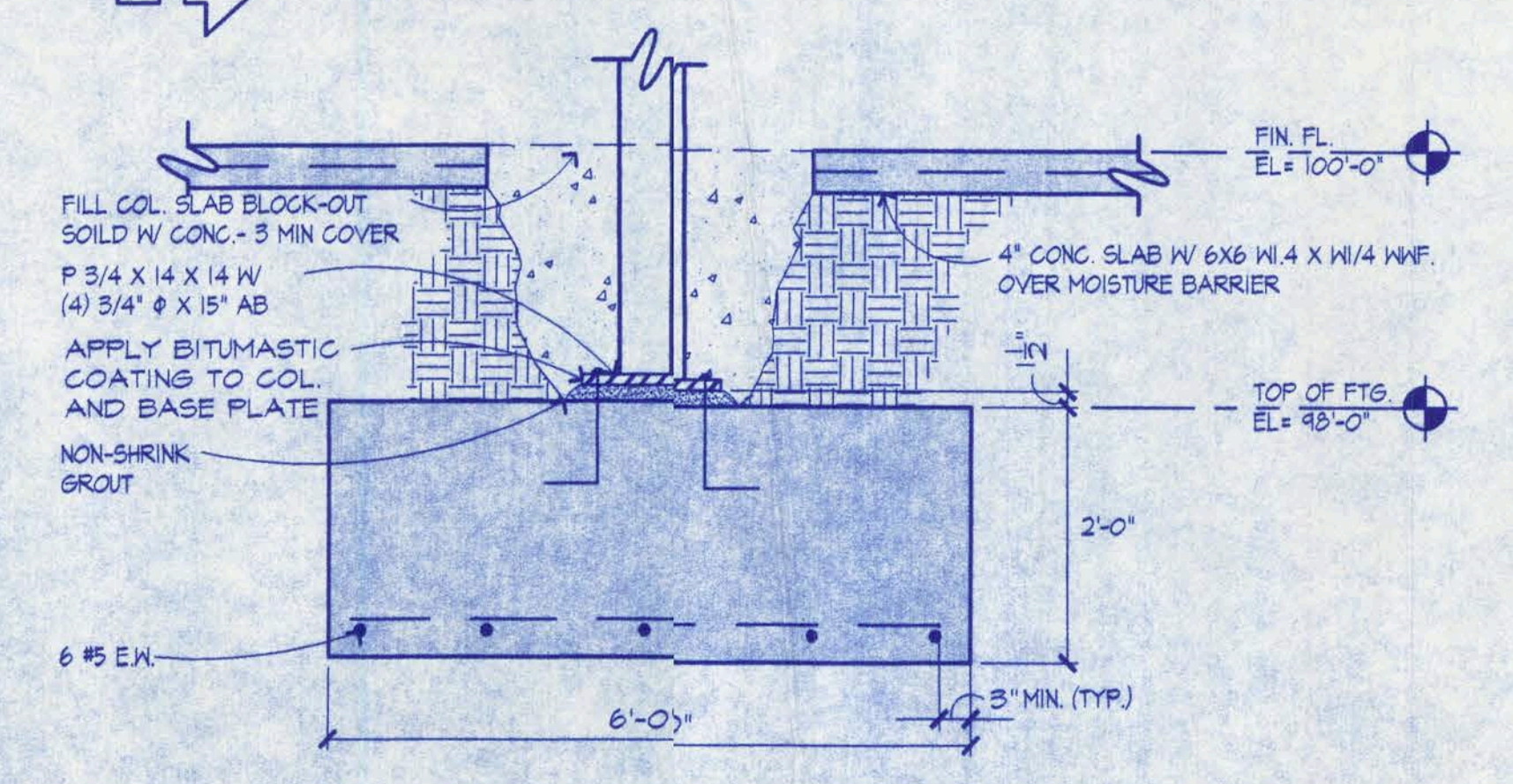
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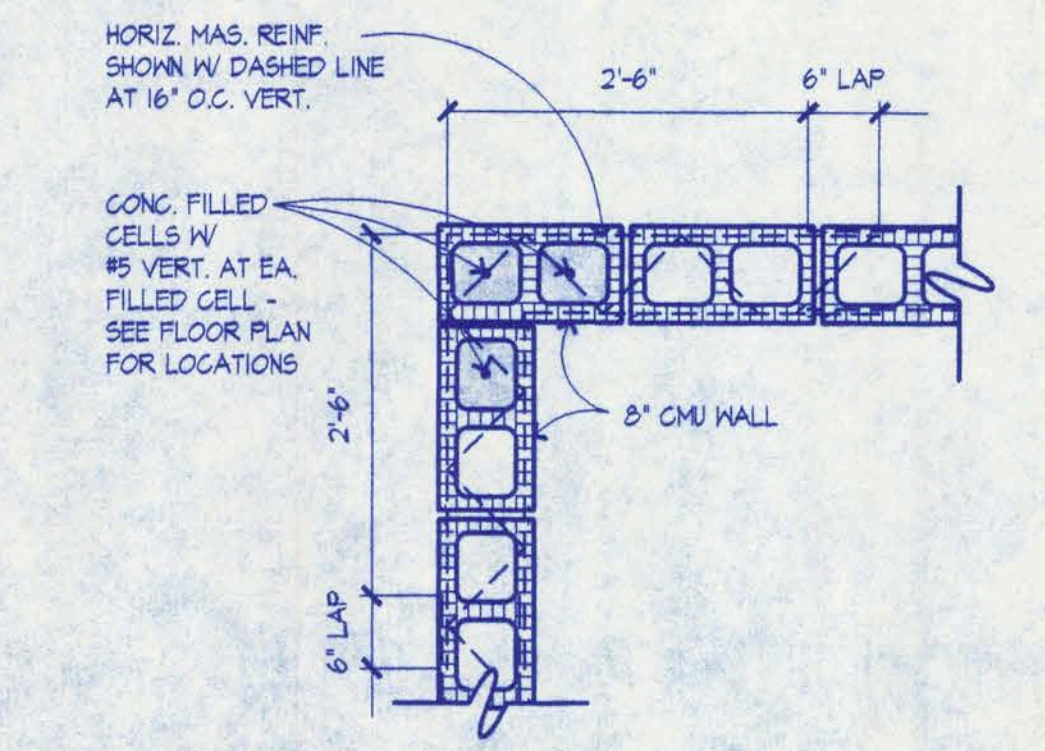
FOUNDATION PLAN 1/4" = 1'-0"



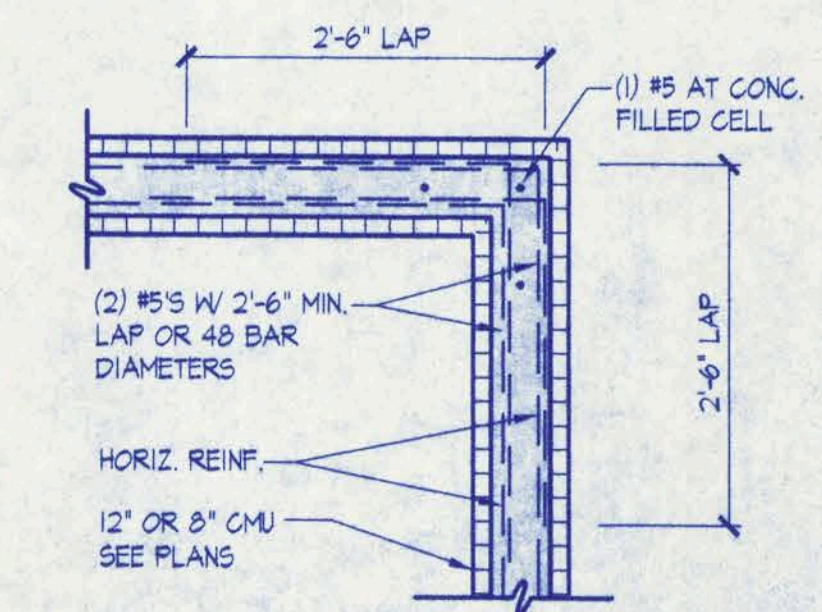
DETAIL - TYPICAL FTG.
3/4" = 1'-0"



DETAIL - COLUMN FTG.
3/4" = 1'-0"



TYP. REINF. AT CORNER
3/4" = 1'-0"



TYP. BOND REINF. AT CORNER
3/4" = 1'-0"

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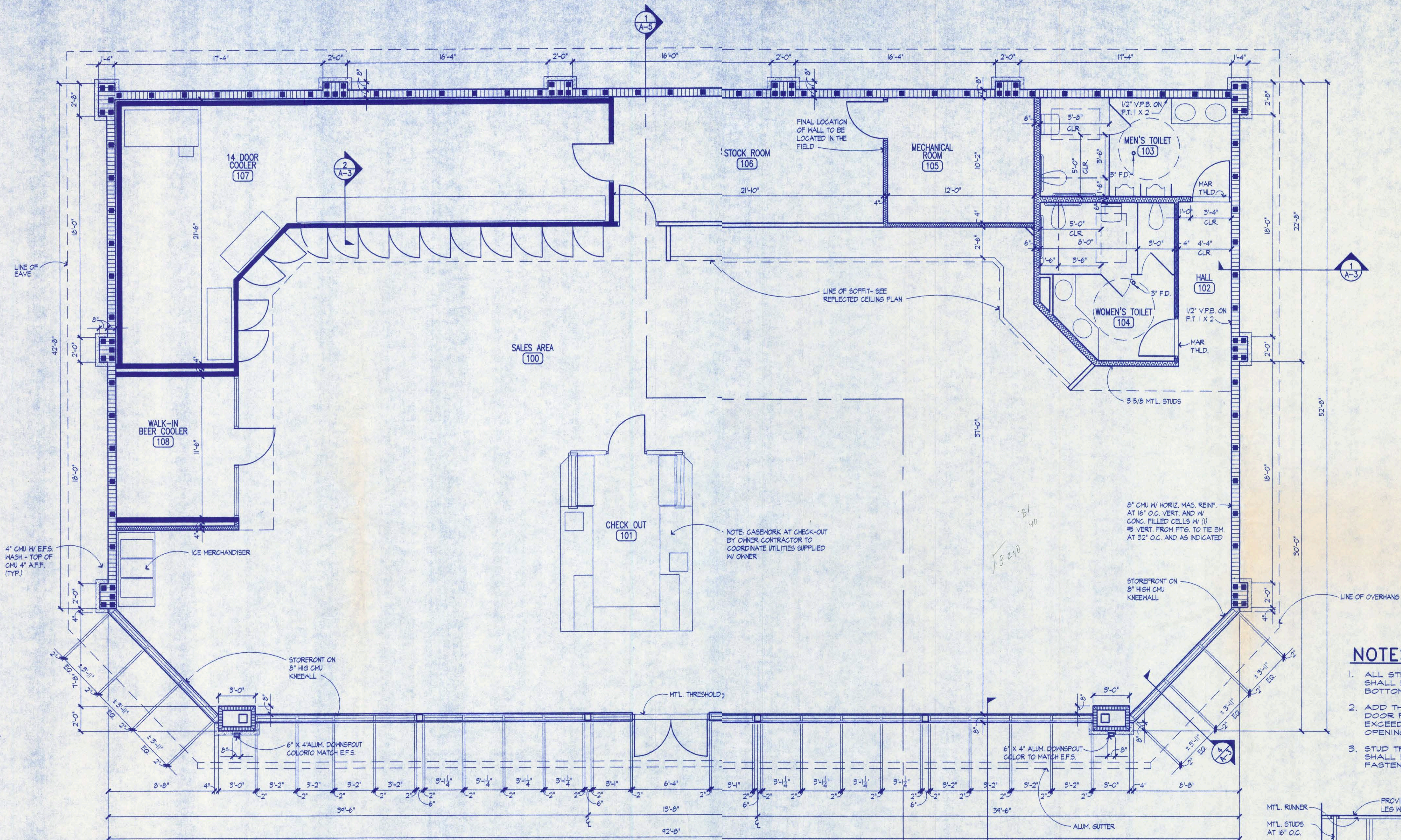
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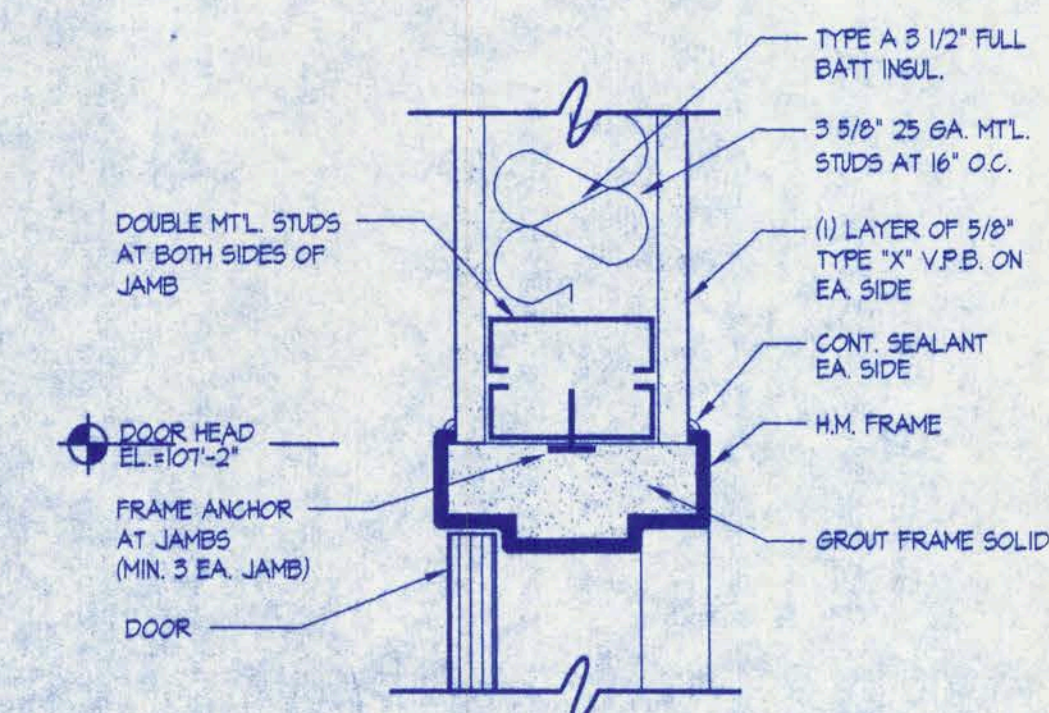
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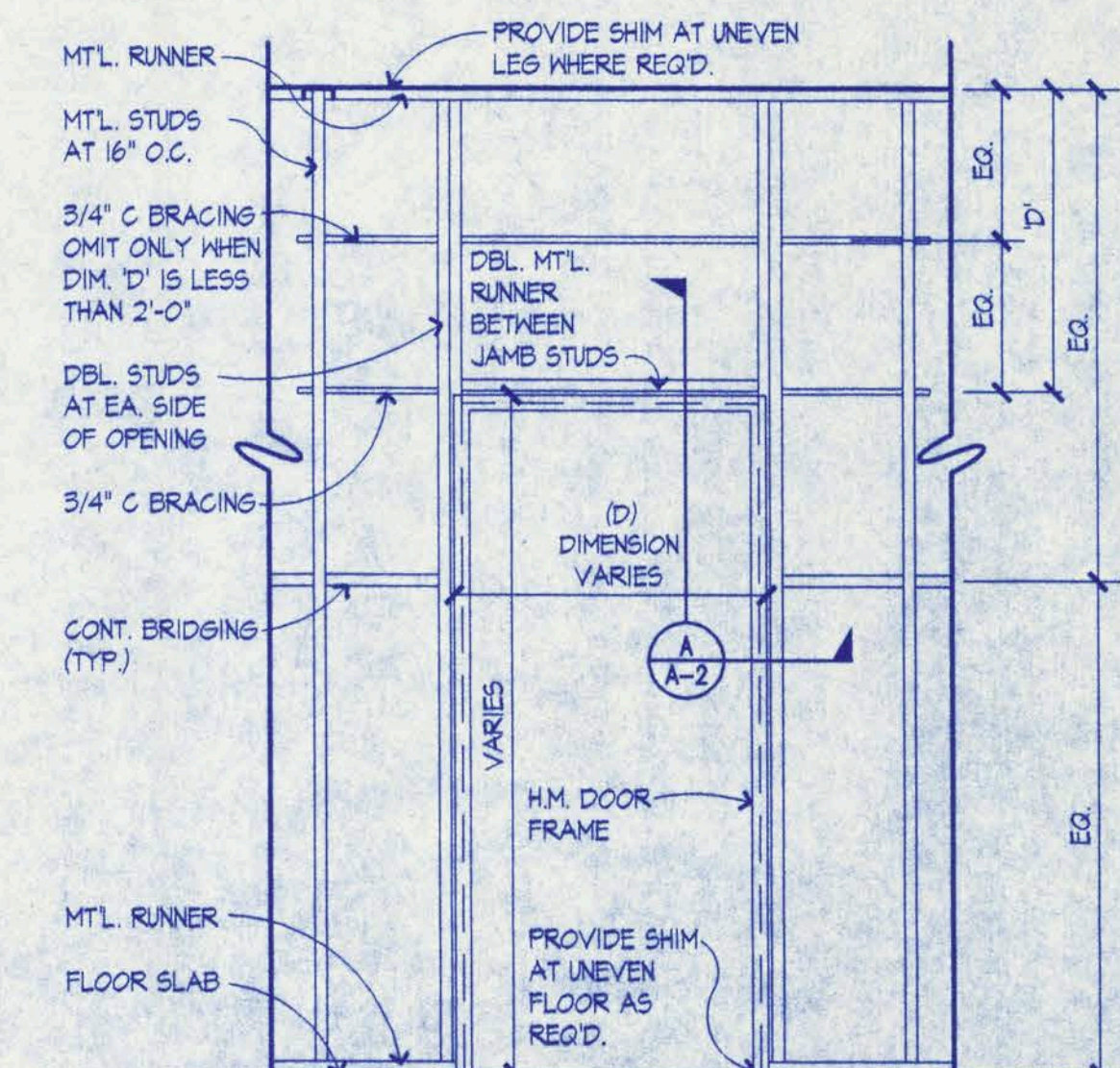
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FLOOR PLAN
1/4" = 1'-0"



DOOR HEAD/JAMB DETAIL
3" = 1'-0"



DOOR STIFFENING DETAIL
N.T.S.

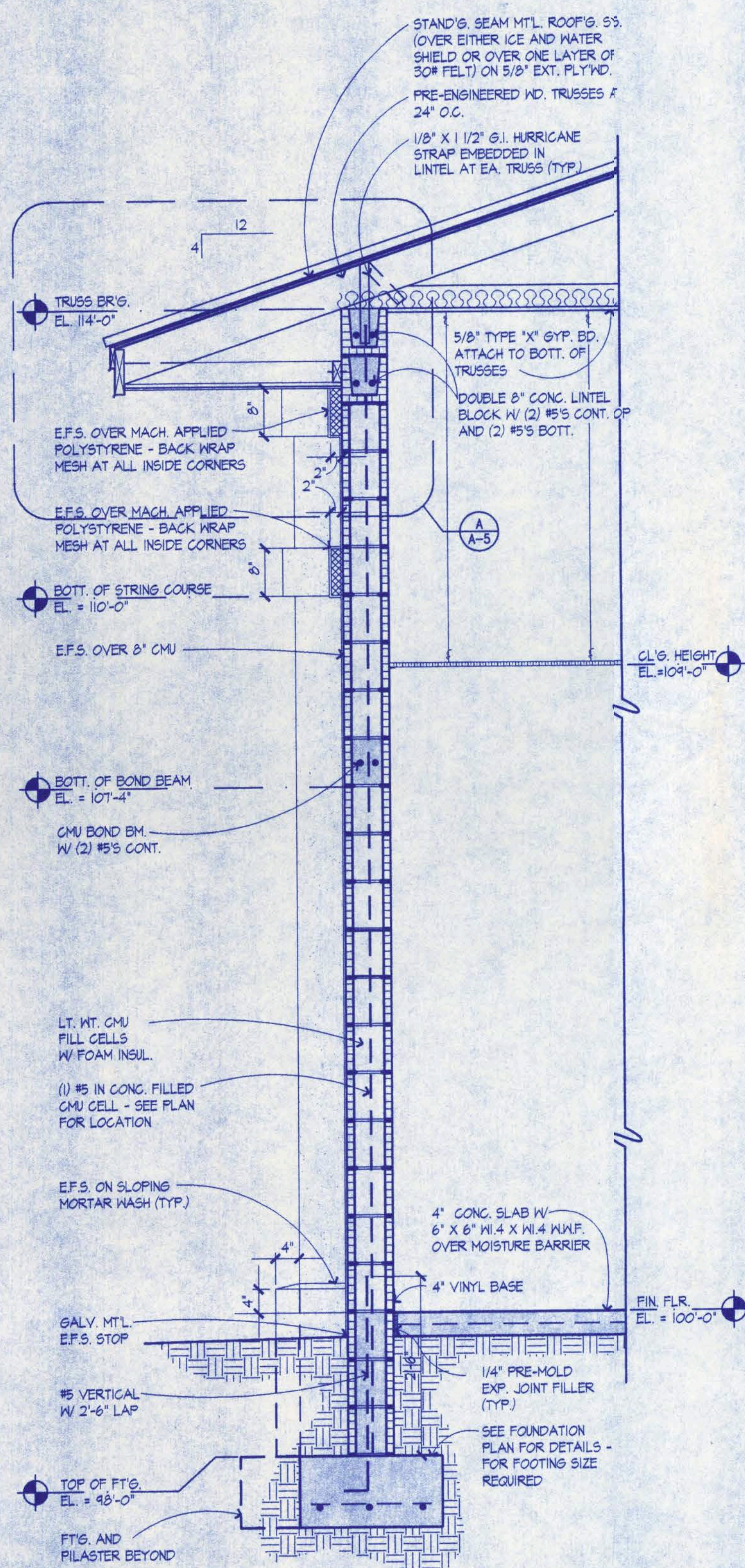
NOTES:

1. ALL STEEL STUD AT FRAMES SHALL BE ANCHORED TOP AND BOTTOM.
2. ADD THIRD STUD AT EA. SIDE OF DOOR FRAME FOR DOORS THAT EXCEED 80 LBS. AND/OR OPENINGS MORE THAN 3'-6" WIDE.
3. STUD TRACK AT DOOR HEAD SHALL BE CUT, BENT AND FASTENED TO JAMB STUDS.

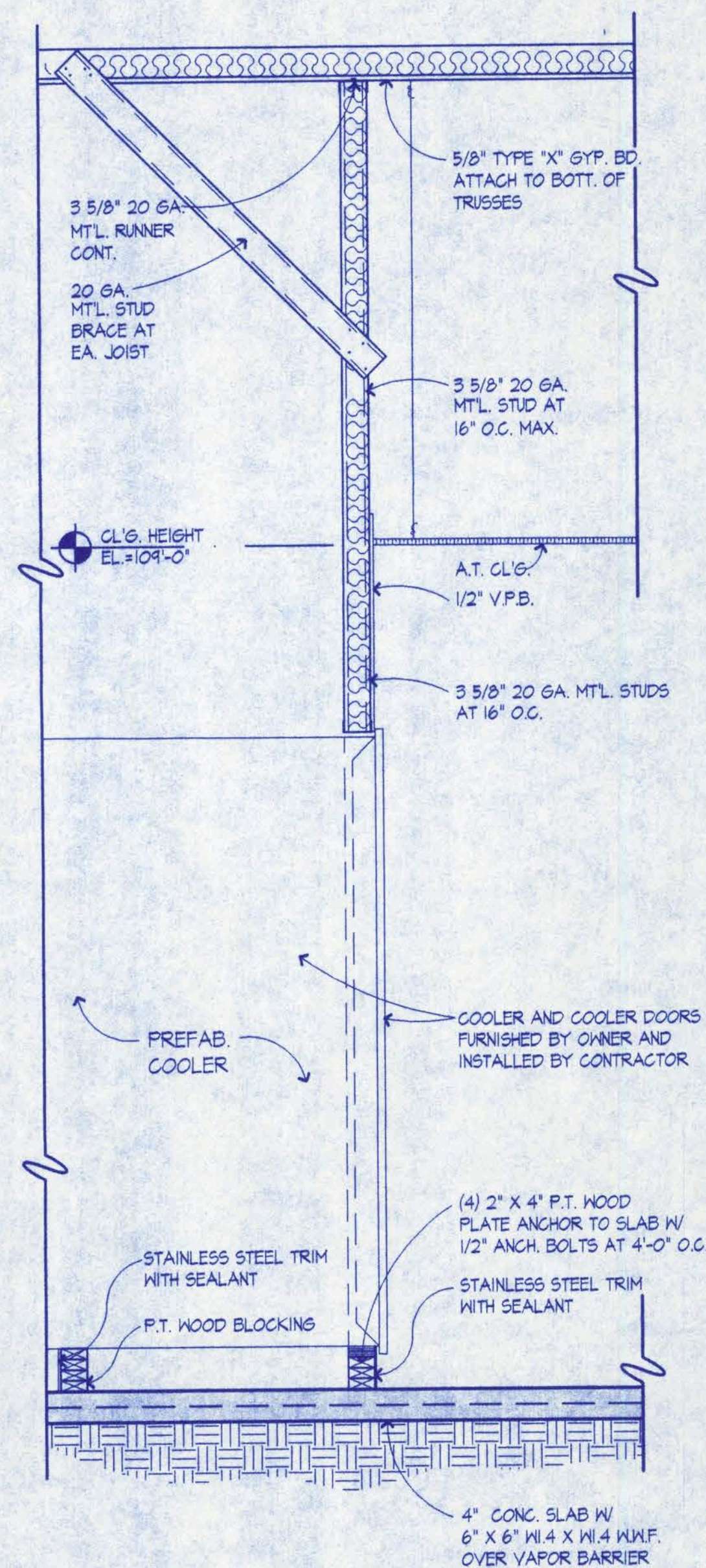
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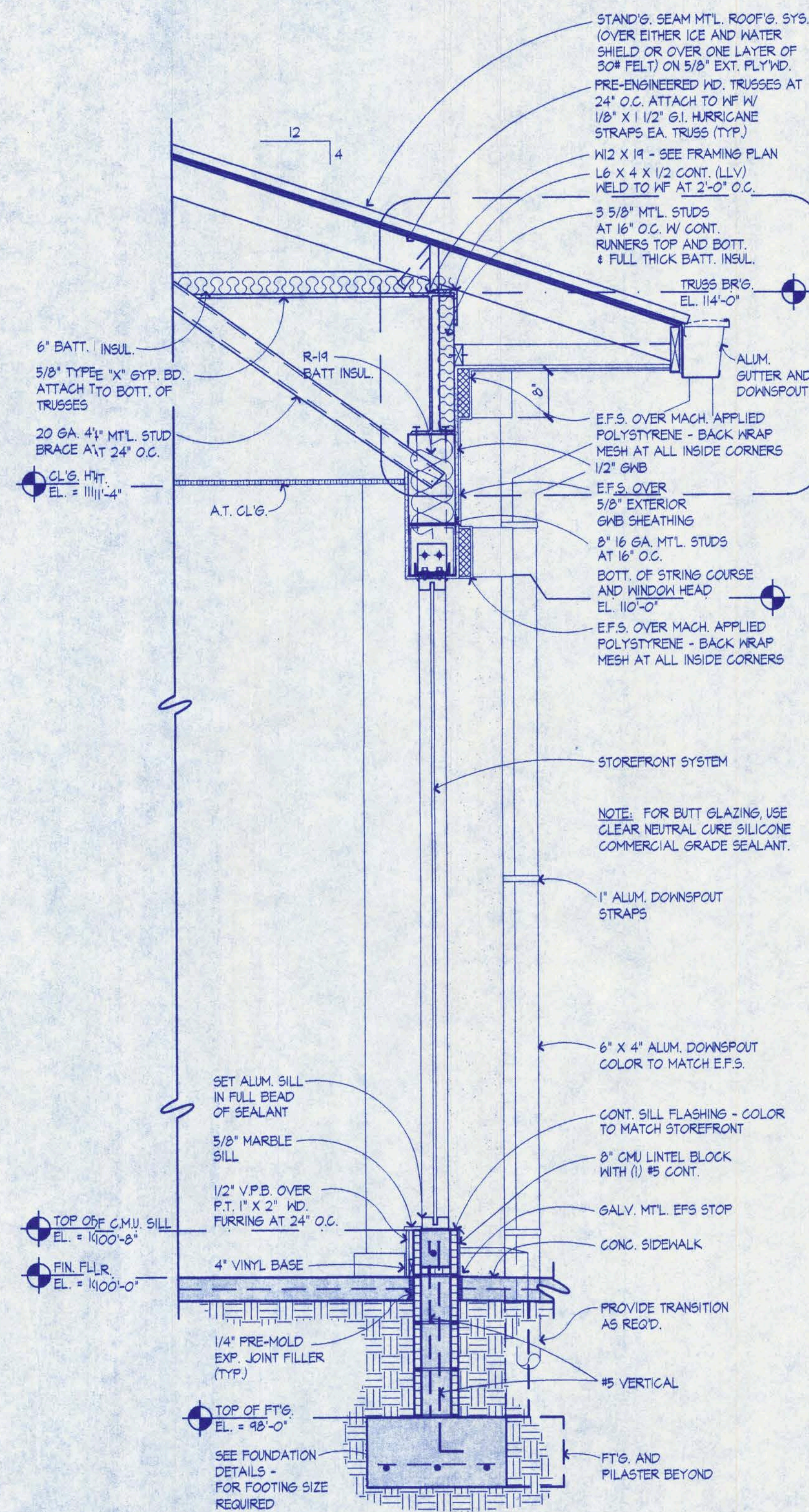
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OF
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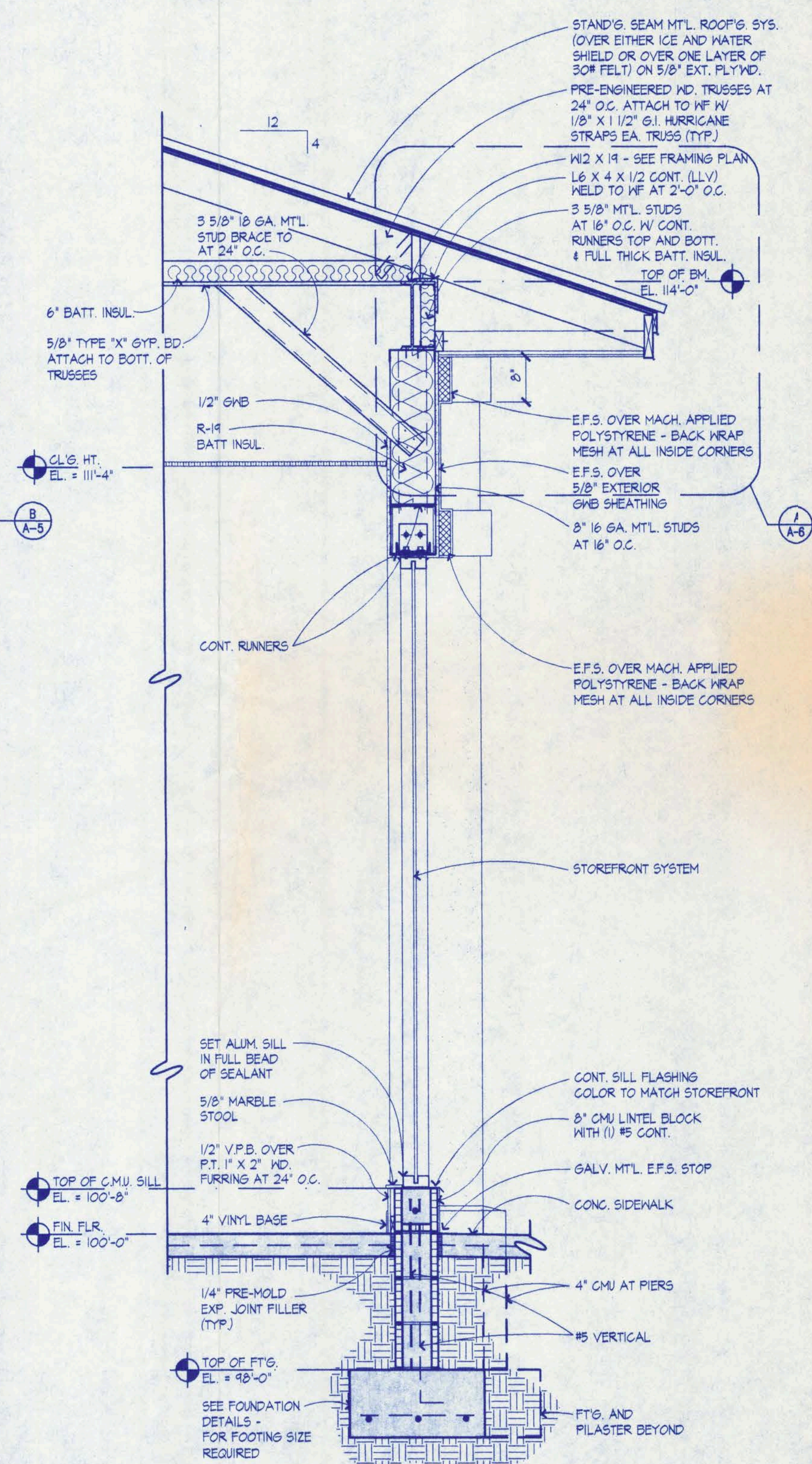
WALL SECTION 1
A-3



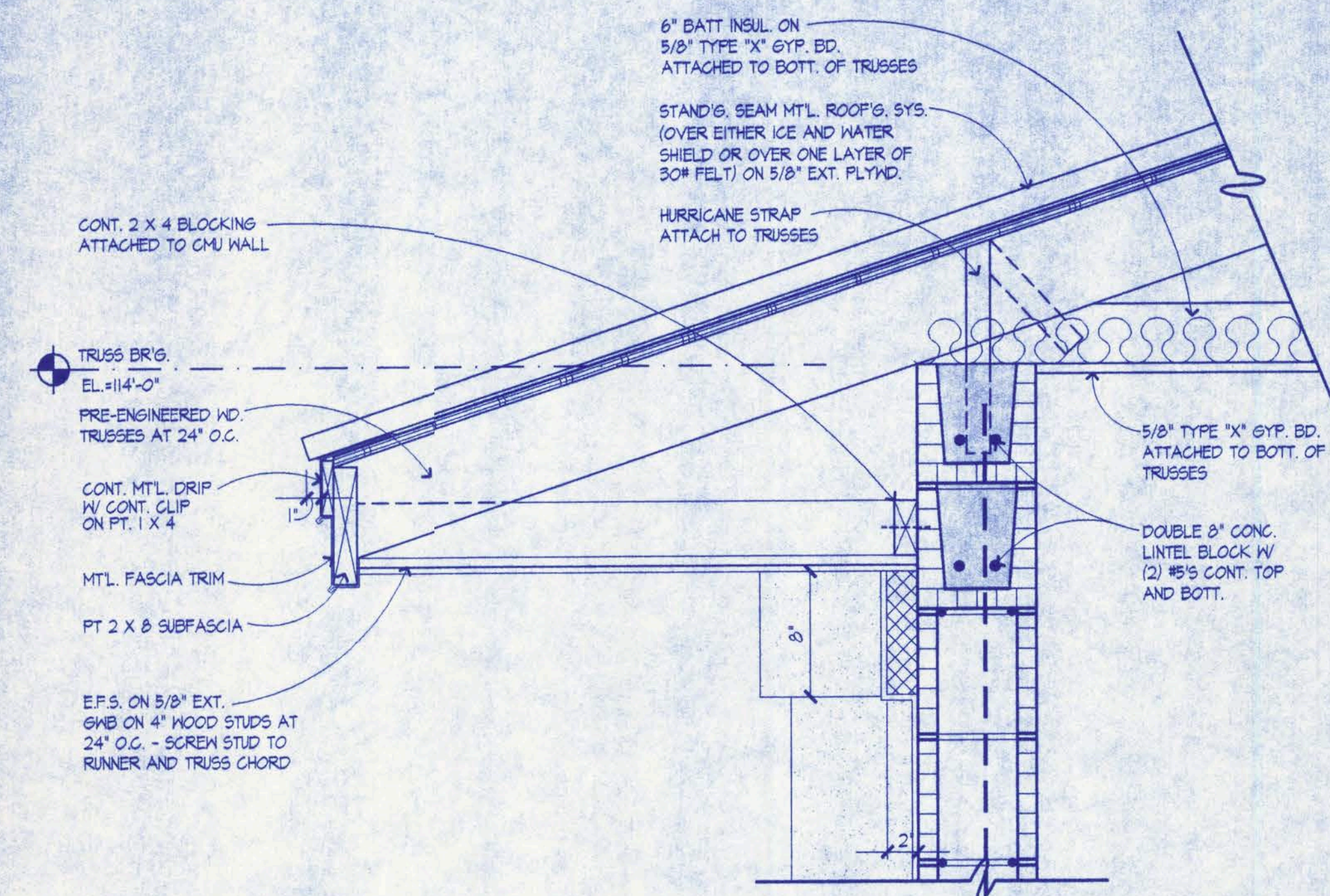
WALL SECTION 2
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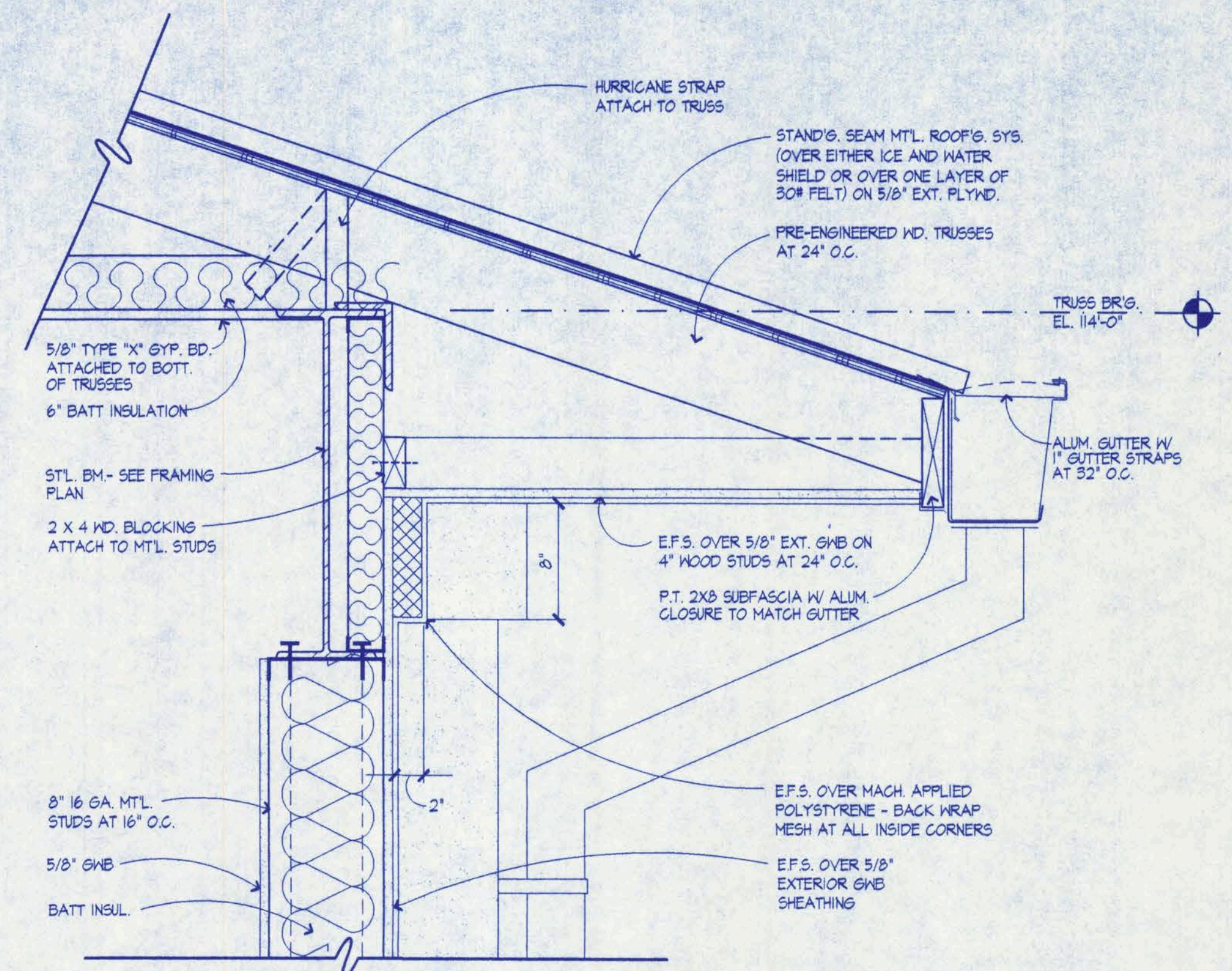
WALL SECTION 3
A-3



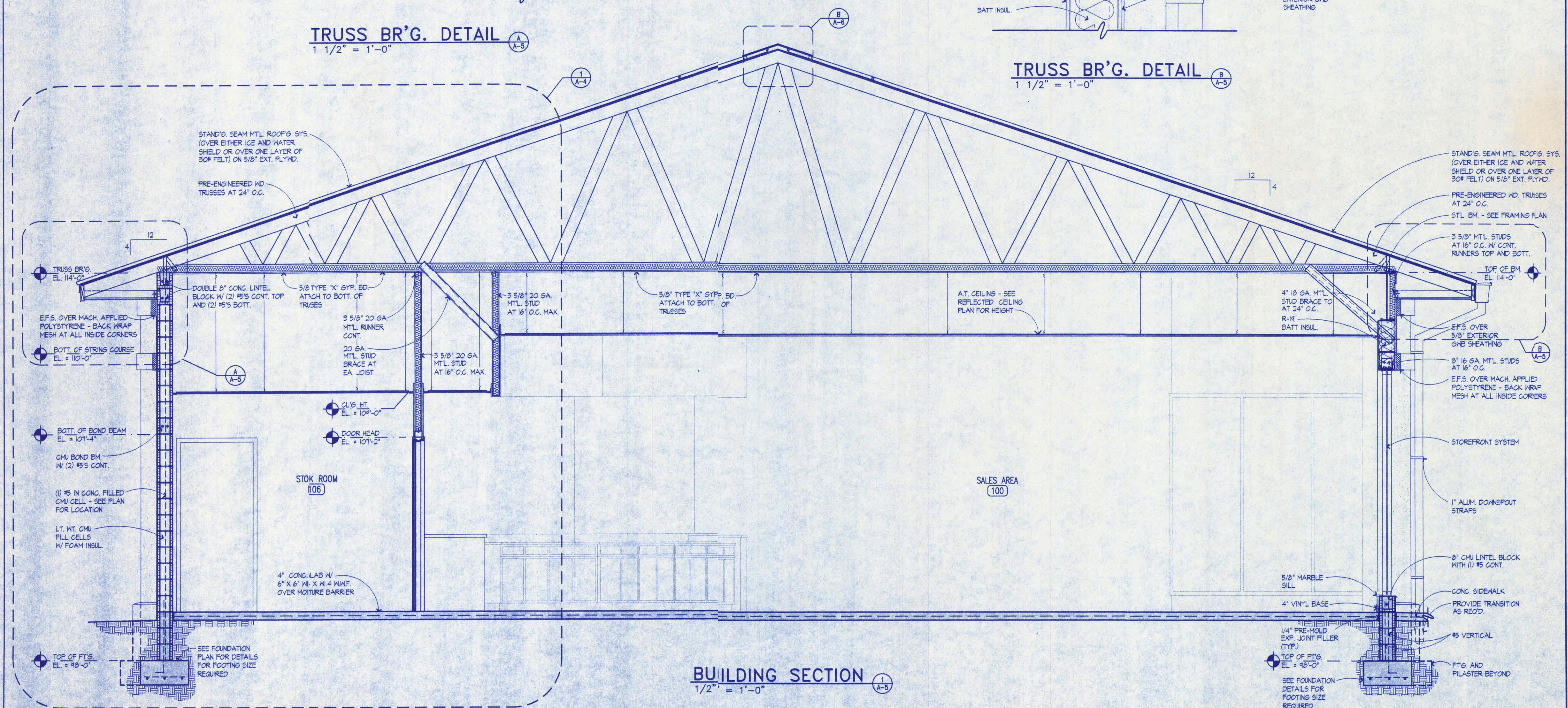
WALL SECTION 4
A-3



TRUSS BR'G. DETAIL
1 1/2" = 1'-0"



TRUSS BR'G. DETAIL
1 1/2" = 1'-0"



BUILDING SECTION
1 1/2" = 1'-0"

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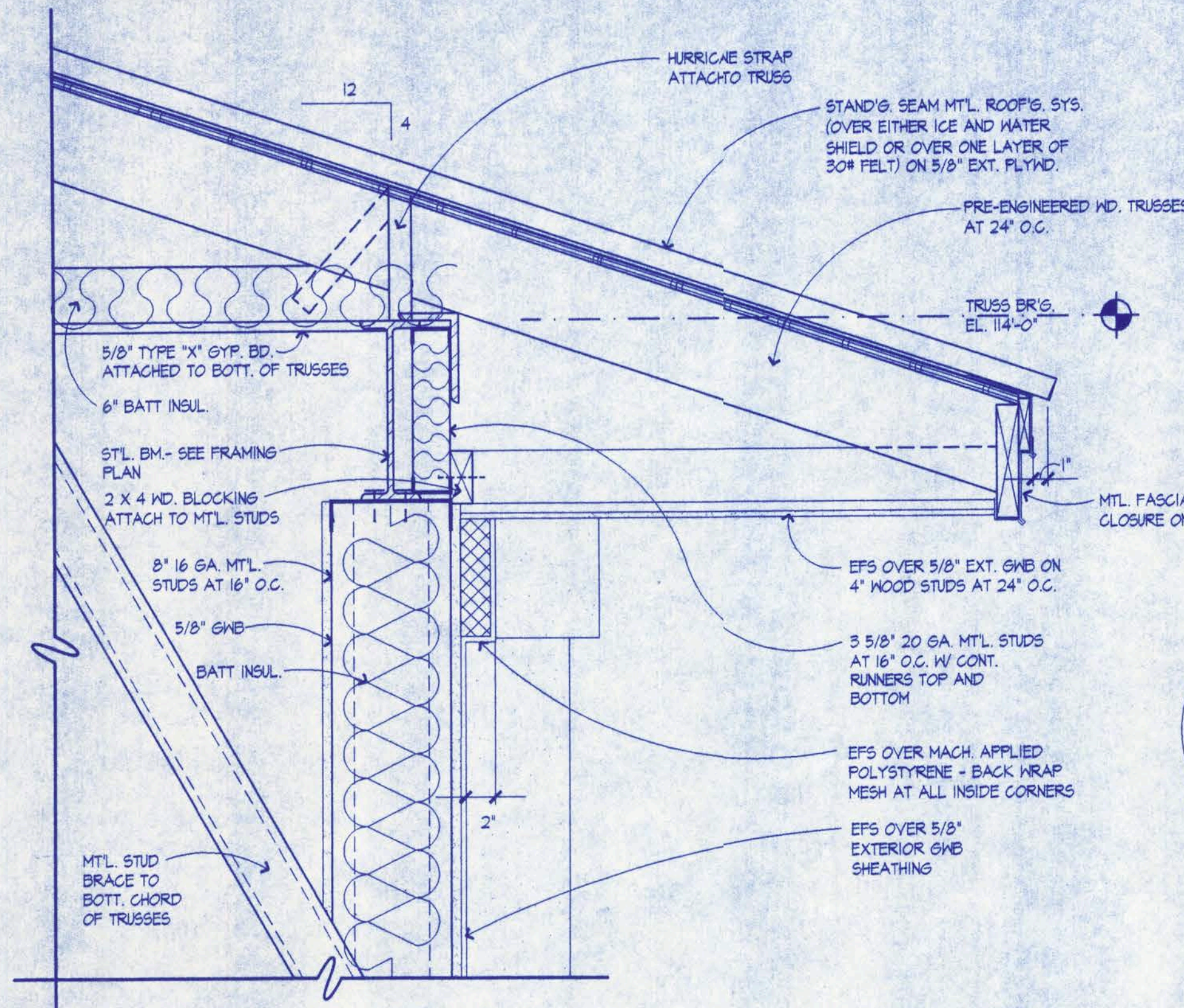
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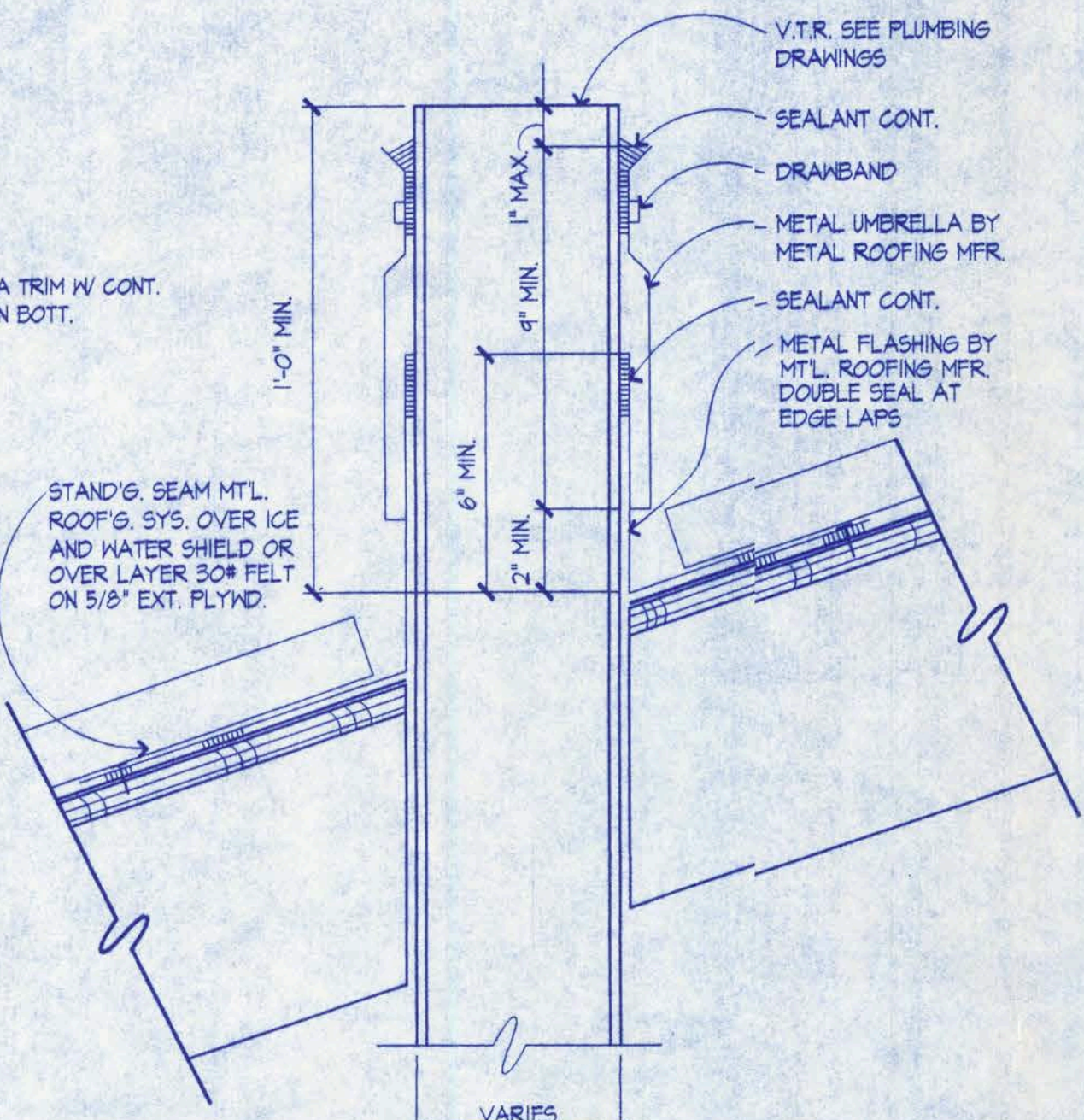
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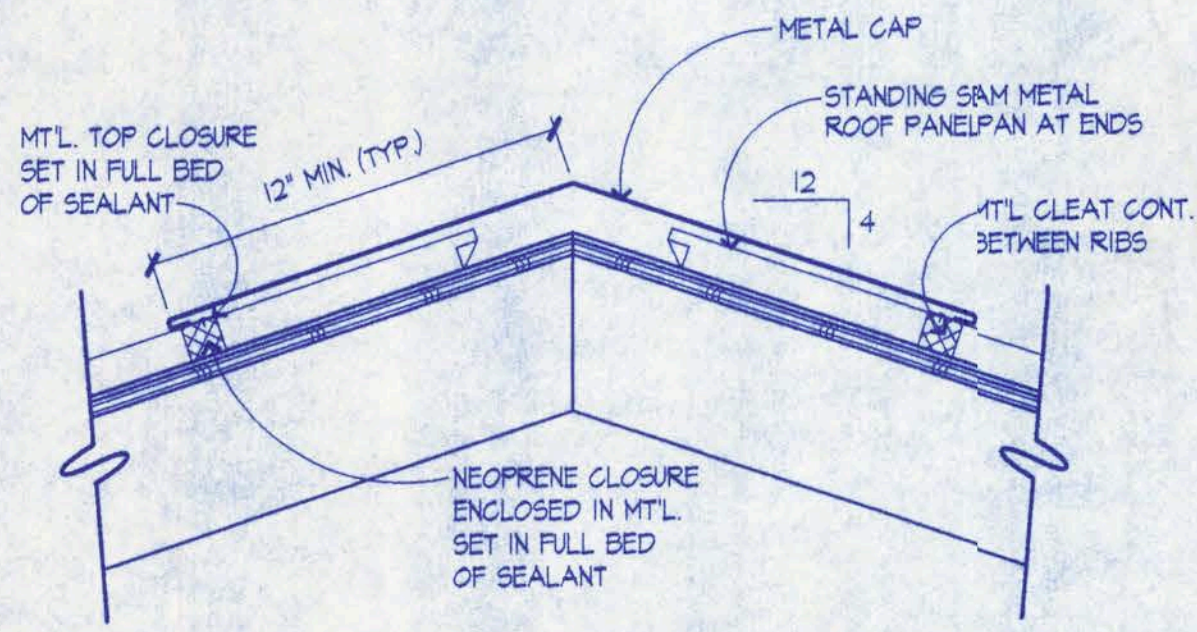
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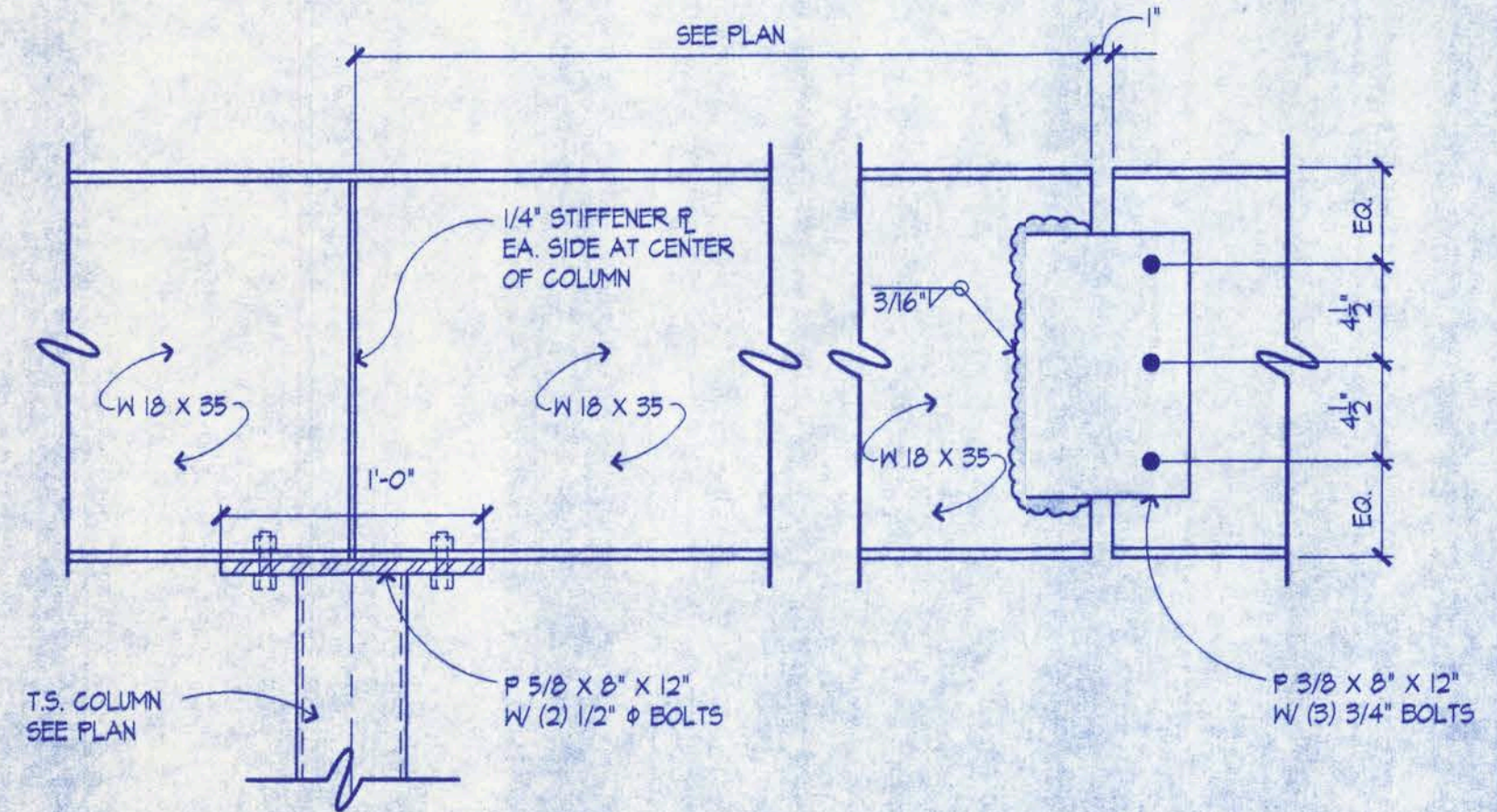
RAKE DETAIL
1 1/2" = 1'-0"



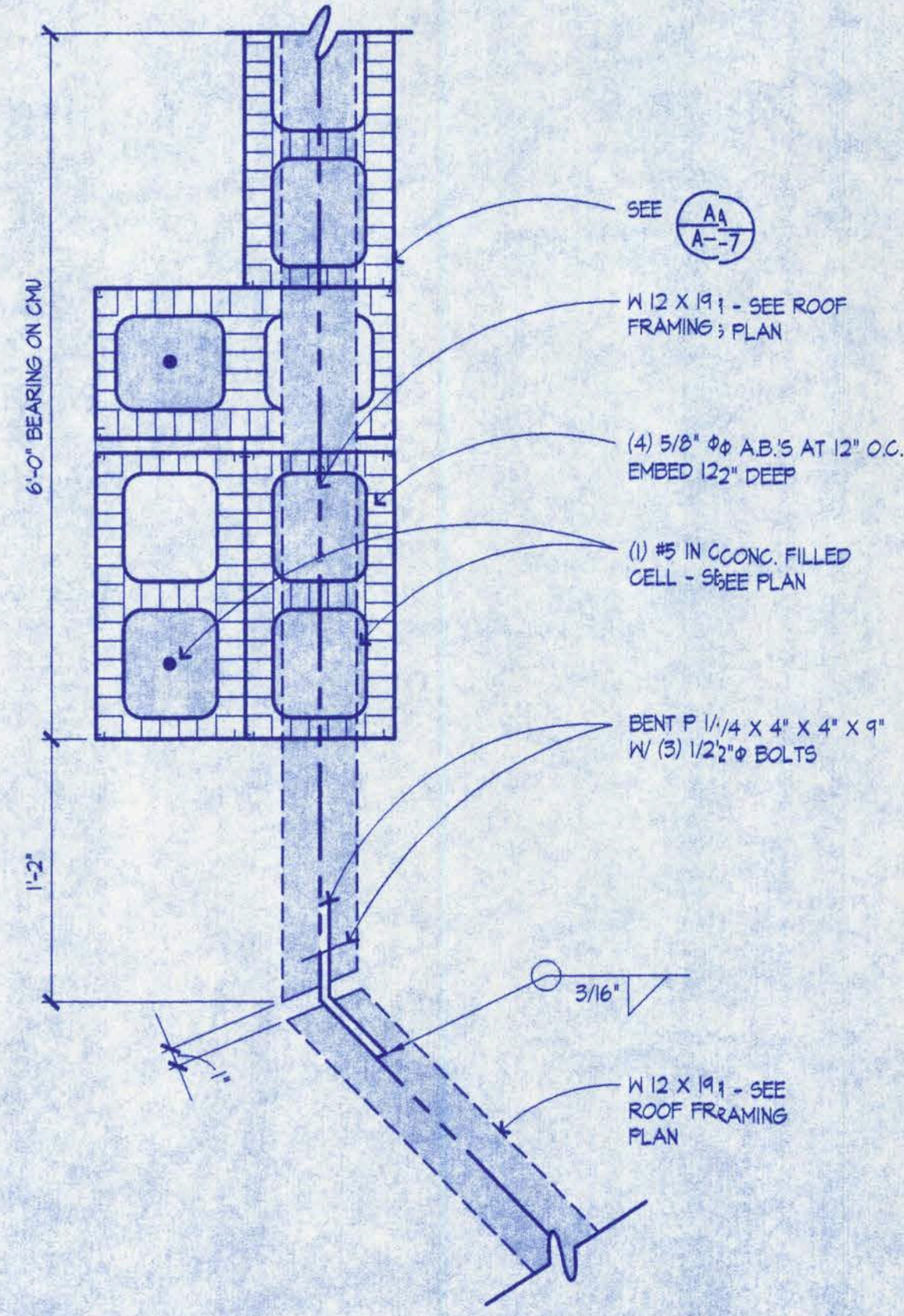
TYP. V.T.R. DETAIL
3" = 1'-0"



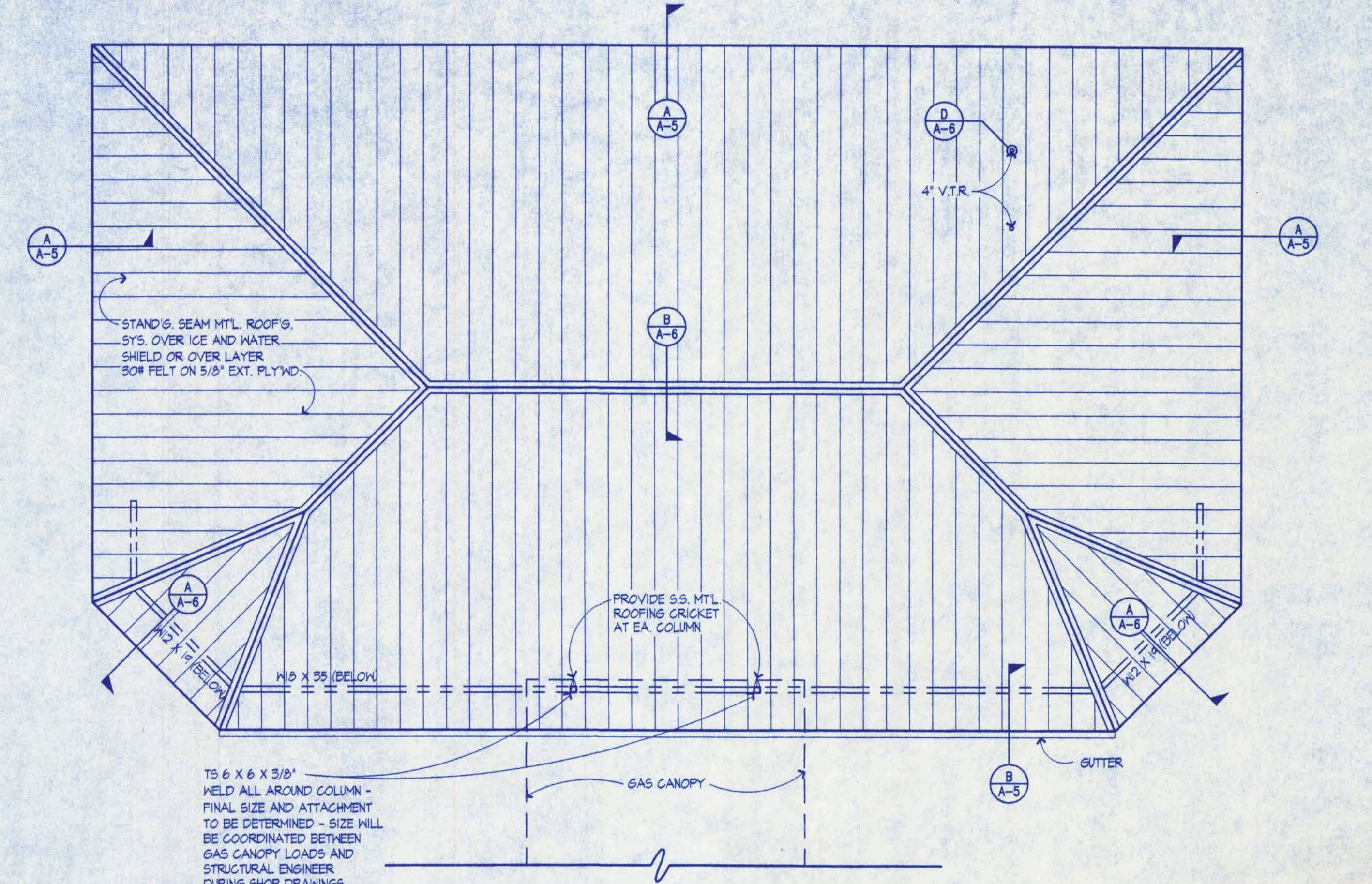
TYP. MT'L. ROOF CAP DETAIL
1 1/2" = 1'-0"



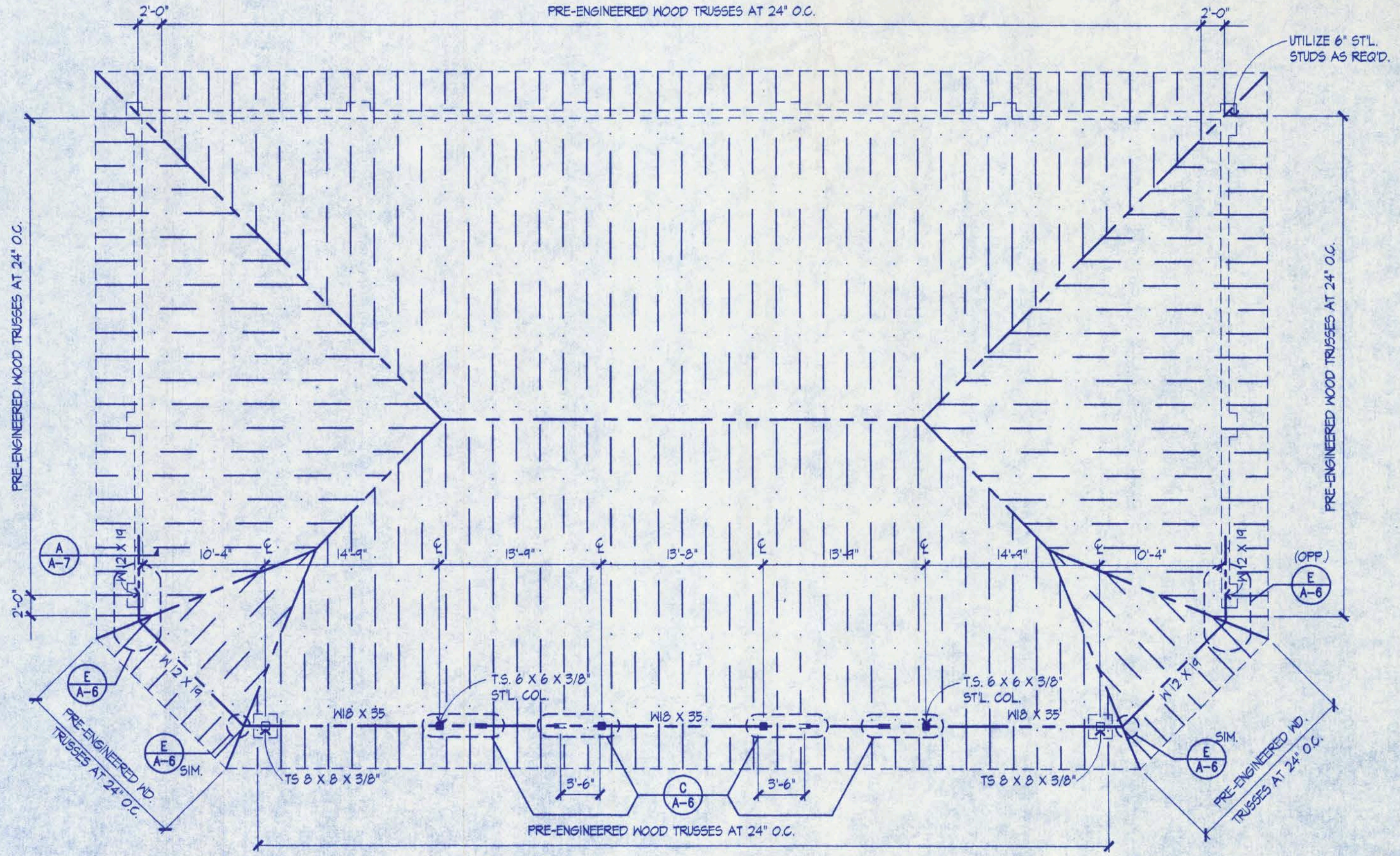
BEAM SPLICE
1 1/2" = 1'-0"



BEAM CONNECTION DETAIL
1 1/2" = 1'-0"



ROOF PLAN
1/8" = 1'-0"



ROOF FRAMING PLAN
1/8" = 1'-0"

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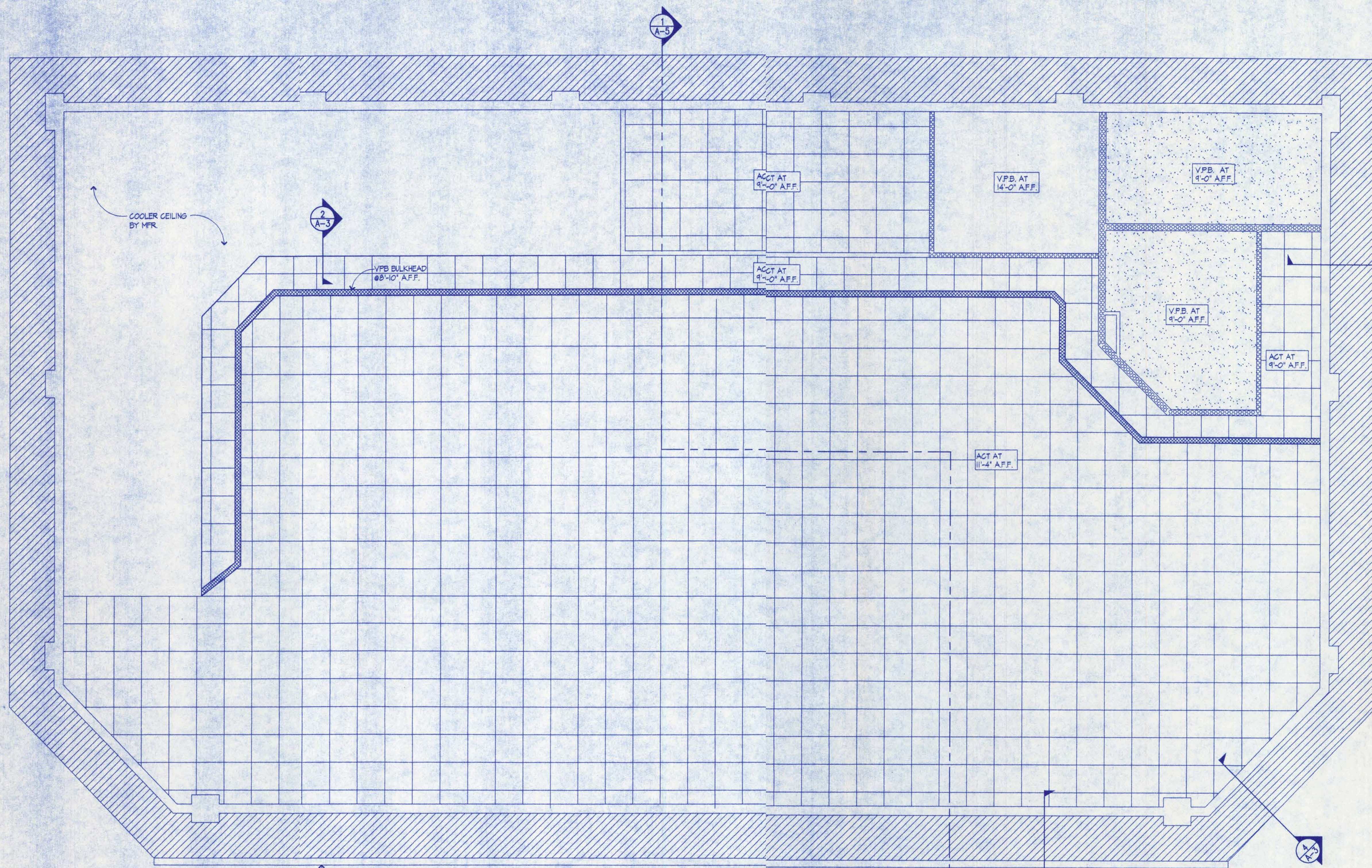
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DRAWN J.M., M.Z., C.P.
APPROVED *[Signature]*

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OF 10
SHEETS



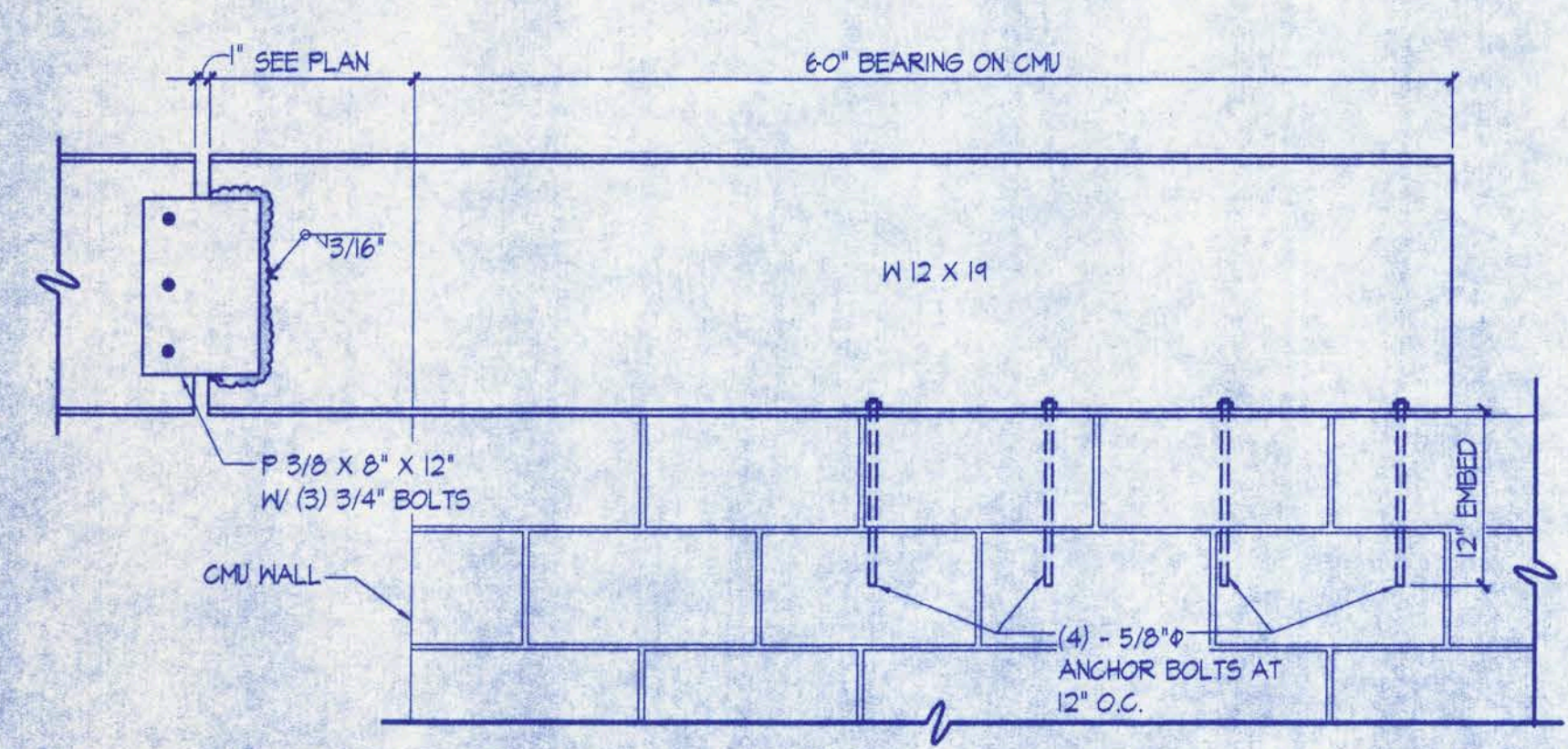
GENERAL NOTES:

1. AT SUSPENDED CEILINGS, ALL SUSPENSION SYSTEMS, INCLUDING LIGHT FIXTURES, SHALL BE SUSPENDED FROM STRUCTURE, NOT DECKING - PROVIDE UNISTRUT FRAMING AS REQ'D.
2. COORDINATE CLOSELY WITH MECHANICAL AND ELECTRICAL PLANS. REPORT ANY CONFLICTS TO OWNER PRIOR TO INSTALLING CEILING GRID.

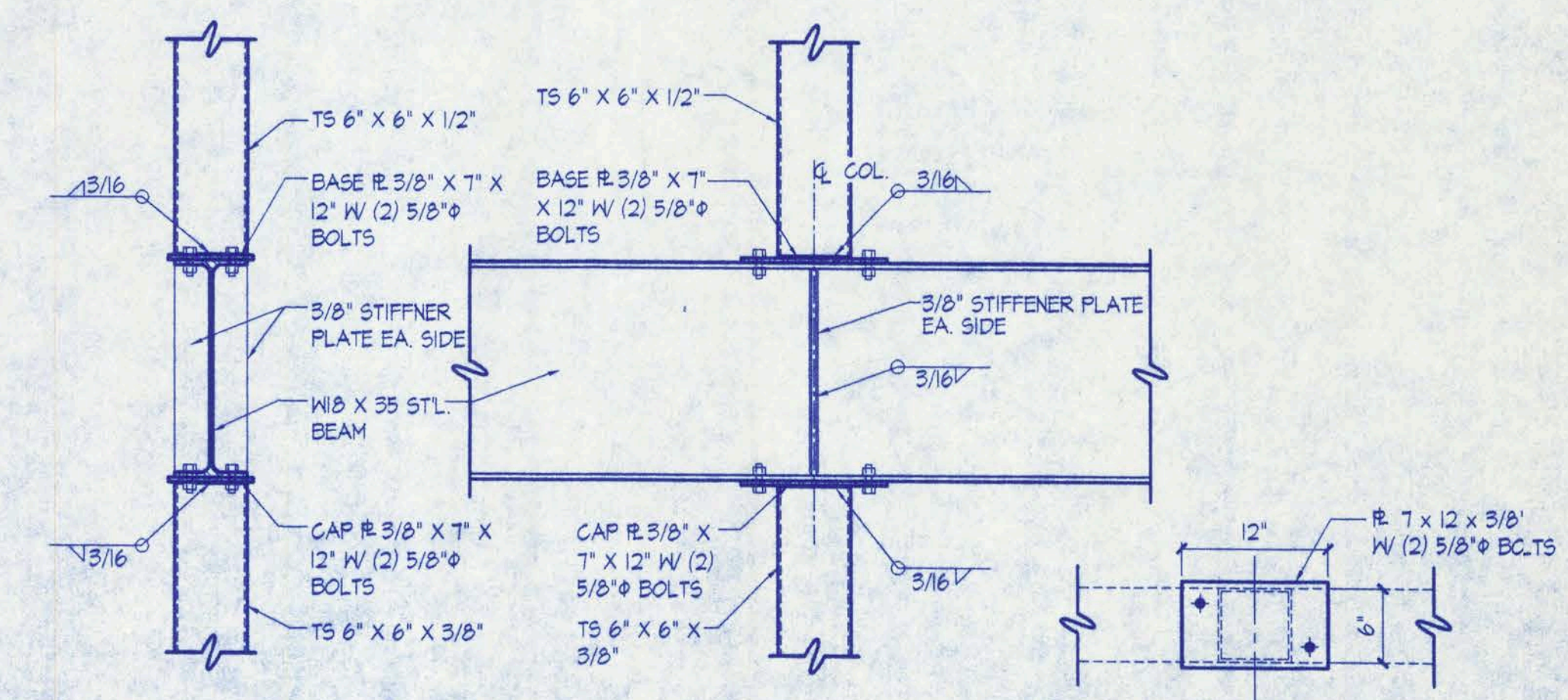
CEILING LEGEND:

- 2' X 2' ACOUSTICAL CEILING TILE
- 5/8" VPB OVER 3/4" MTL. CHANNELS AT 16" O.C. OVER 1-1/2" C.R. CHANNELS AT 4'-0" O.C. SUSPENDED FROM STRUCT. - PROVIDE UNISTRUT AS REQ'D.
- VENTED ALUMINUM SOFFIT
- BATT. INSULATION
- MTL. STUD SOFFIT W/ 5/8" VPB ON EA. SIDE

REFLECTED CEILING PLAN
1/4" = 1'-0"



ST'L. BEAM DETAIL A-7
1 1/2" = 1'-0"



ST'L. BEAM DETAIL B-A-7
1 1/2" = 1'-0"

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SHEETS **10**

GENERAL CONDITIONS

1. THE 1987 EDITION OF "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF BUILDINGS STANDARD FORM OF THE AMERICAN INSTITUTE OF ARCHITECTS" IS HEREBY MADE A PART OF THESE SPECIFICATIONS.
2. ANY MENTION IN THESE SPECIFICATIONS OR IDICATION ON THE DRAWINGS OF ARTICLES, MATERIALS, OPERATIONS, METHODS, ETC. REQUIRES THAT THE CONTRACTOR FURNISH EACH ITEM SO MENTIONED OR INDICATED, OF THE KIND, TYPE OR DESIGN AND QUALITY SPECIFIED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPERVISION TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND INTENT OF THESE SPECIFICATIONS EVEN THOUGH SUCH MENTION OF ARTICLES, MATERIALS, OPERATIONS, METHODS, QUALITY QUALIFICATIONS OR CONDITIONS IS NOT EXPRESSED IN COMPLETE SENTENCES.
3. WHERE DEVICES, ITEMS OR PARTS THEREOF, ARE REFERRED TO IN THE SINGULAR, IT IS INTENDED THAT SUCH REFERENCE SHALL APPLY TO AS MANY SUCH DEVICES, ITEMS OR PARTS AS ARE REQUIRED TO PROPERLY COMPLETE THE WORK.
4. SCHEDULES OF WORK INCLUDED IN THESE SPECIFICATIONS ARE GIVEN FOR CONVENIENCE AND SHALL NOT BE CONSIDERED AS A COMPREHENSIVE LIST OF ITEMS NECESSARY TO COMPLETE THE WORK AS DESCRIBED, DRAWN AND SPECIFIED.
5. THE CONTRACTOR SHALL COORDINATE THE WORK COVERED HEREFTER DESCRIBED WITH THE WORK OF OTHERS INVOLVED IN THIS PROJECT. THE NECESSARY INFORMATION AND THE ITEMS, MATERIALS AND EQUIPMENT SHALL BE DELIVERED WHEN REQUIRED IN ORDER TO PREVENT ANY DELAY IN THE PROGRESS AND COMPLETION OF WORK.
6. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND DETAILS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
7. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF ALL LOCAL GOVERNING AGENCIES AND CODES.
8. CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY CODE OR ORDINANCE.
9. IF REQUIRED, A CONSTRUCTION BARRICADE SHALL BE INSTALLED BY THE CONTRACTOR THAT IS AS REQUIRED BY THE GOVERNING AUTHORITY. NO SIGNS OTHER THAN THOSE AUTHORIZED BY THE OWNER WILL BE PERMITTED ON THIS BARRICADE.
10. CONTRACTOR SHALL PAY FOR ALL CONSTRUCTION RELATED PERMITS AND FEES REQUIRED TO CONSTRUCT THIS PROJECT.
11. APPROVED CONSTRUCTION PERMIT DOCUMENTS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY ANY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ON THE PREMISES AT ALL TIMES UNDER THE CARE OF THE SUPERINTENDENT, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AS BUILT-CONDITIONS AND CHANGE ORDERS POSTED. THE CONTRACTOR MUST TURN THIS DRAWING SET OVER TO THE OWNER AT THE COMPLETION OF THIS PROJECT.
12. THE CONTRACTOR SHALL VERIFY AND CONFIRM TO ALL REQUIREMENTS OF ALL UTILITY COMPANIES WHENEVER ANY MATERIAL, EQUIPMENT OR METHOD IS SPECIFIED OR INDICATED BY PROPRIETARY NAME OR MANUFACTURER, THE MATERIAL, EQUIPMENT, METHOD SO SPECIFIED OR INDICATED SHALL BE DEEMED TO BE FOLLOWED BY THE WORDS "OR EQUAL" EXCEPT IN THOSE CASES WHERE ITEMS SPECIFIED BY NAME ARE MARKED "N.O. SUBSTITUTE."
13. ALL WORK IS TO BE DONE IN THE BEST WORKMANLIKE MANNER.
14. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION, EXCEPT AS OTHERWISE SPECIFIED. ALL WARRANTY REPAIRS, CORRECTIONS, DISCREPANCIES, ETC. MUST BE MADE WITHOUT ANY ADDITIONAL COST TO THE OWNER, AND WITHIN FIVE (5) DAYS AFTER NOTICE IS GIVEN.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE BUILDING AND SITE WHILE JOB IS IN PROGRESS AND UNTIL JOB IS COMPLETED.
16. ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE KEPT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.
17. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE WORKERS AT ALL TIMES.
18. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
19. ALL ITEMS MARKED "N.O." ARE NOT PART OF THIS CONTRACT. CERTAIN ITEMS MAY BE SUPPLIED BY THE OWNER BUT INSTALLED BY THE CONTRACTOR. CAREFULLY REVIEW THE DRAWINGS AND SCHEDULES.
20. ALL WORK SHALL BE CONSTRUCTED OR INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATIONS OR WRITTEN DIRECTIONS.
21. REPAIR AND/OR REPLACE ANY AND ALL BROKEN AND DAMAGED CONCRETE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE REQUIREMENTS OF LOCAL GOVERNING AGENCIES.

GRADING, COMPACTION, EXCAVATION AND SITE WORK

1. REMOVE ALL SUBSURFACE STRUCTURES, DEBRIS, GROWTH, VEGETATION, OBJECTIONABLE MATERIALS NOT SUITABLE FOR FILL, CAP ALL DISCONNECTED UTILITIES AT PROPERTY LINE IN APPROVED MANNER, AS REQUIRED AND COORDINATED WITH THE APPROPRIATE UTILITY AGENCY.
2. ALL HOLES RESULTING FROM AFOREMENTIONED REMOVALS SHALL BE BACKFILLED AND COMPACTED TO 95% OF MAXIMUM OPTIMUM DENSITY WITH ENGINEERED FILL MATERIAL.
3. THE ENTIRE SITE SHALL BE GRADED TO MEET REQUIRED FINISH GRADES. CONTRACTOR SHALL LEVEL AND FILL TO TWO INCHES BELOW FINISH GRADE FOR PLANTING AND SODDING.
5. EXCAVATE FOR ALL FOOTINGS AND FOUNDATIONS AS CALLED FOR ON THE DRAWINGS AND WHICH MEET REQUIREMENTS OF LOCAL GOVERNING AGENCIES. COMPACT BOTTOM OF 12" OF FOOTINGS TO 95% MAXIMUM OPTIMUM DENSITY.

6. ALL FOOTINGS SHALL BE ON UNDISTURBED NATURAL SOIL OR APPROVED ENGINEERED COMPACTED FILL. REFER TO FOUNDATION PLAN AND DETAILS.

CONCRETE

1. ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. MIX AND MATERIALS SHALL MEET ALL REQUIREMENTS OF LOCAL CODES AND INDUSTRY STANDARDS.
2. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A-15 AND ASTM A-305. MINIMUM LAP SHALL BE 30 BAR DIAMETERS OR MORE IF NOTED ON THE DRAWINGS. REINFORCEMENT SHALL BE FREE OF SCALE, RUST OR OTHER COATINGS WHICH WOULD REDUCE BOND TO CONCRETE. MAINTAIN 3" MINIMUM COVER AROUND STEEL AT ALL BELOW FINISH GRADE LOCATIONS.
3. WELDED WIRE FABRIC SHALL BE INSTALLED IN ALL FLOOR SLABS AND SIDEWALKS AND SHALL BE 6 X 6 X 18.4 X 18.4 W.W.F. ASTM A-185. CONCRETE FLOOR SLABS SHALL BE AS INDICATED ON THE DRAWINGS.
4. ALL CONCRETE FLOOR SLABS AND WALKS SHALL BE A MINIMUM OF 4" THICK, UNLESS OTHERWISE NOTED TO BE THICKER.
5. MAKE PROPER PROVISIONS FOR AND INSTALL ALL SCREEDS, GROUNDS, BOLTS, CURBS, DRAINS, ETC. COORDINATE WITH ALL OTHER TRADES INVOLVED PRIOR TO PLACING CONCRETE. SLOPE SLABS TO DRAINS AND/OR AS SHOWN ON THE DRAWINGS.
6. PROVIDE AND INSTALL 6 MIL POLYETHYLENE MOISTURE BARRIER UNDER ALL INTERIOR SLABS. LAP AND TAPE ALL JOINTS. USE CAUTION SO AS NOT TO PUNCTURE MOISTURE BARRIER PRIOR TO SLAB POUR.
7. SAW CUT FLOOR SLAB 1/2" DEEP AND DIVIDE INTO AREAS NO GREATER THAN 400 SQ. FT. OR AS SHOWN ON PLANS FOR CONSTRUCTION JOINTS.
8. ALL INTERIOR FLOOR SLABS SHALL BE SMOOTH TROWELED FINISH, FREE FROM MARKS AND BLEMISHES.
9. WHEN FREEZING TEMPERATURES PREVAIL OR ARE ANTICIPATED, CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT CONCRETE INSTALLATION. PLACED CONCRETE SHALL BE KEPT AT A MINIMUM OF 60°F FOR A PERIOD OF 72 HOURS AFTER POURING.

MASONRY

1. MASONRY UNITS SHALL BE PROPERLY WETTED TO REDUCE EXCESSIVE ABSORPTION AND SHALL BE DAMP AT TIME OF LAYING.
2. MASONRY SHALL BE LAID PLUMB, LEVEL AND TRUE TO LINE WITH ALL CORNERS AND ANGLES SQUARE, PATTERN WORK, BONDS, AND SPECIAL DETAILS ARE TO BE ACCURATELY AND UNIFORMLY DONE.
3. CEMENT MORTAR SHALL CONSIST OF 1 PART PORTLAND CEMENT (TYPE I OR TYPE II LOW ALKALI), 1/4 PART HYDRATED LIME, SAND (3 1/2 TIMES THE SUM OF THE VOLUME OF CEMENT AND LIME).
4. ALL CELLS CONTAINING REINFORCING, ANCHORS, BOLTS, ETC. SHALL BE GROUTED SOLID WITH CEMENT GROUT OR 3,000 P.S.I. FEA GRAVEL CONCRETE. INSPECTION AND APPROVAL OF REINFORCING SHALL BE MADE BY LOCAL BUILDING DEPT. PRIOR TO GROUTING.
5. HORIZONTAL JOINT REINFORCEMENT SHALL BE EQUAL TO "DUR-O-WALL." SPACING SHALL BE AS INDICATED ON THE DRAWINGS.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 OR SI.
2. STRUCTURAL STEEL AND RELATED WORK INCLUDE THE FOLLOWING: COLUMNS, STEEL TUBS, BASE PLATES (W/ ANCHORS), BEAMS AND BEAM SEATS (W/ ANCHORS), MISCELLANEOUS ANGLES, STEEL JOISTS AND BEARING PLATES (W/ ANCHORS).
3. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND INSTALLED IN CONFORMANCE WITH LATEST EDITION OF STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL IN BUILDINGS, AS ADOPTED BY THE A.I.S.C.
4. PREPARE COMPLETE AND DETAILED SHOP DRAWINGS UNDER THE SUPERVISION OF A FLORIDA REGISTERED ENGINEER, PRIOR TO FABRICATION OR INSTALLATION OF ANY STRUCTURAL STEEL.
5. ALL STRUCTURAL WELDING SHALL BE ELECTRIC ARC, PERFORMED BY CERTIFIED WELDERS IN THE SHOP OF LICENSED FABRICATOR. FIELD WELDING SHALL BE DONE BY CERTIFIED WELDERS AND REQUIRE CONTINUOUS INSPECTION BY THE GENERAL CONTRACTOR. TOUCH UP ALL WELDS WITH PRIMER.
6. ALL STRUCTURAL STEEL SHALL BE PRIME COATED IN SHOP PRIOR TO DELIVERY ON JOB.
7. ALL EXTERIOR EXPOSED STEEL SHALL BE GALVANIZED.

METAL STUDS AND FRAMING

METAL STUDS

1. REFER TO PLANS AND DETAILS FOR SIZE, SPACING, LOCATION AND DETAILS, TO DETERMINE WHERE METAL STUDS ARE USED ON THIS PROJECT.
2. NON-LOAD BEARING TYPE INTERIOR PARTITIONS SHALL BE CONSTRUCTED OF MINIMUM 25 GAUGE GALVANIZED STEEL STUDS. LOAD BEARING STUDS SHALL BE MINIMUM OF 18 GAUGE. REFER TO DRAWINGS AND USE HEAVIER GAUGE STUDS WHERE CALLED FOR. PROVIDE RUNNER (CHANNELS) AND REINFORCING AS INDICATED.
3. STUDS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, DETAILS AND PLANS. MAXIMUM SPACING SHALL NOT EXCEED 16" O.C.

WOOD TRUSSES

1. TRUSSES SHALL BE DESIGNED WITH SLOPES AND SPANS AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH INDUSTRY STANDARDS AND IN COMPLIANCE WITH APPLICABLE CODES, STANDARDS AND ORDINANCES.

2. THE CONTRACTOR SHALL OBTAIN PRIOR TO FABRICATION, ERECTION AND FABRICATION DRAWINGS PREPARED, AND SEALED BY A STRUCTURAL ENGINEER LICENSED BY THE STATE OF FLORIDA AND INDICATING INDIVIDUAL COMPONENT SIZES AND METHOD(S) OF CONNECTION TO EACH OTHER AND SUPPORTING BUILDING COMPONENTS.
3. ALL LUMBER SHALL BE GRADE MARKED PER AREA STANDARDS. SEE FRAMING PLAN NOTES.
4. TEMPORARY BRACING SHALL BE REQUIRED AND PROVIDED UNTIL ERECTION IS COMPLETE AND ENOUGH ROOF DECK IS IN PLACE TO STABILIZE THE TRUSS INSTALLATION.

CARPENTRY AND MILLWORK

1. ALL WOOD PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR OR NO. 2 PINE.
2. ALL LUMBER SHALL BE GRADE MARKED PER AREA STANDARDS.
3. WOOD STUDS SHALL BE NO. 2 PINE OR DOUGLAS FIR STANDARD GRADE.
4. CARPENTRY MATERIALS SHALL BE AS LISTED BELOW:
 - A. FLYWOOD SHALL BE MINIMUM GRADE C-C WITH EXTERIOR GLUE, MINIMUM 5/8" THICK.
5. PLASTIC LAMINATES SHALL BE AS SELECTED BY OWNER AND SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
6. ALL FINISH WOOD WORK SHALL BE FINISHED SMOOTHLY, SANDED WITH NAIL HOLES SET AND SHALL BE FREE FROM ALL DEFECTS. ALL JOINTS SHALL BE MITERED WITH CLOSE, TIGHT FIT.
7. COORDINATE AND VERIFY ALL WORK WITH EQUIPMENT INSTALLERS. PROVIDE ALL PROPER BACKING, BLOCKING AND SUPPORTS AS REQUIRED.
8. CONTRACTOR TO PROVIDE WOOD BLOCKING AT ALL STUD WALL MOUNTED SHELVING AND SINKS.

INSULATION

1. ROOF INSULATION SHALL BE MINIMUM R-30 AVERAGE FOIL BACKED TYPE II CLASSIC BATT INSULATION AND SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH MANUFACTURER'S LATEST SPECIFICATIONS.
2. ALL EXTERIOR STUD WALLS AND ATTIC SPACES SHALL HAVE KRAFT FACED, ASTM-136, TYPE II, CLASS C, BATT INSULATION, R-19 AT WALLS.
3. SOUND INSULATION SHALL BE PROVIDED AT TOILET ROOM WALLS AND SHALL BE FULL THICK ROCKWOOL KRAFT PAPER WRAPPED.
4. ALL CMU CELLS NOT GROUTED SHALL BE FILLED WITH FOAMED-IN-PLACE THERMAL INSULATION EQUAL TO CORE-FILL 500 NON-TOXIC AMINO-PLAST RESIN AS MANUFACTURED BY TAILORED FOAM, OF FLORIDA, INC.

ROOFING

STANDING SEAM METAL ROOFING

1. THE PREFORMED METAL ROOF PANELS AND ALL RELATED COMPONENTS (REFERENCED ON DRAWINGS AS "STANDING SEAM METAL ROOF SYSTEM") OVER PLYWOOD ROOF DECK SHALL BE EQUAL IN ALL RESPECTS TO THAT AS MANUFACTURED BY BERRIDGE MANUFACTURING CO.
 - A. PROFILE AND GAUGE OF ROOF AND SIDING PANELS AND RELATED COMPONENTS.
 - B. LOCATION AND TYPE OF FASTENERS. SHOW PROVISIONS FOR THERMAL MOVEMENT.
 - C. DETAILS OF EDGE CONDITIONS, JOINTS, CORNERS, PANEL PROFILES, SUPPORTS, TRIM, CLOSURES AND RELATED TRIM. DISTINGUISH BETWEEN FACTORY AND FIELD ASSEMBLY WORK.
 - D. LOCATION, GAUGE, SHAPE AND METHOD OF ATTACHMENT OF ALL TRIM, INCLUDING CURBS, FLASHINGS AND ASSOCIATED METAL WORK.
 - E. SEALANT(S) TYPES AND PROPERTIES AS RECOMMENDED BY THE METAL PANEL MANUFACTURER FOR EACH SPECIFIC APPLICATION/LOCATION.
 - F. ALL OTHER ITEMS PERTINENT TO FABRICATION AND INSTALLATION OF THE COMPLETE SYSTEM SPECIFIED OR SHOWN ON THE DRAWINGS.
3. DESIGN CRITERIA - THE METAL ROOFING SYSTEM SHALL BE DESIGNED FOR ITS OWN DEAD LOAD PLUS THE FOLLOWING LOADS:
 - A. ROOF LIVE LOAD: IN ACCORDANCE WITH FLORIDA BUILDING CODE. ADDITIONAL MECHANICAL EQUIPMENT LOADS: AS INDICATED ON DRAWINGS. IF NOT INDICATED, OBTAIN FROM APPROPRIATE SUBCONTRACTORS.
 - B. DESIGN WIND LOAD: IN ACCORDANCE WITH ASCE-7-98 DESIGN WIND VELOCITY 100 MPH, BUILDING IMPORTANCE FACTOR OF 1.15 AND EXPOSURE CATEGORY "C." FASTENERS SHALL HAVE A SAFETY FACTOR OF 2.5.
 - C. MAXIMUM ALLOWABLE DEFLECTION: L/180. SYSTEM SHALL BE DESIGNED TO ACCOMMODATE MOVEMENT OF COMPONENTS AND TOLERANCES OF STRUCTURAL FRAMING WITHOUT BUCKLING, FAILURE OF JOINTS, UNDUE STRESS OF FASTENERS, OR OTHER DETRIMENTAL EFFECTS, WHEN SUBJECT TO SEASONAL TEMPERATURE RANGES FOR THE PROJECT SITE GEOGRAPHICAL AREA. MINIMUM EXPANSION CAPABILITY OF SYSTEM SHALL BE 8/32-INCH IN 10-FEET.
4. REFERENCES
 - A. MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
 - B. ASTM STANDARDS AND TEST PROCEDURES AS REFERENCED HEREIN.
 - C. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA): LATEST EDITION.
 - D. NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM) STANDARDS AS REFERENCED HEREIN, LATEST EDITION.
 - E. FLORIDA BUILDING CODE.

CRAIG SALLEY AND ASSOCIATES
ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
3911 NEWBERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. AD0002479 • 352-572-8424



S & S FOOD STORE NO. 28
41/441 SOUTH
LAKE CITY, FLORIDA

Craig Salley
10/21/03

CRAIG SALLEY, R.A.

DATE
10/21/03
DRAWN
J.M. MZ, GP
APPROVED
Craig Salley

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5. ROOF MATERIALS SHALL BE ADEQUATELY PACKAGED AND PROTECTED DURING SHIPMENT AND SHALL BE INSPECTED FOR DAMAGE, DAMPENESS AND WET STORAGE STAINS UPON DELIVERY TO THE SITE. DAMAGED OR PERMANENTLY STAINED MATERIALS THAT CANNOT BE RESTORED TO LIKE-NEW CONDITION SHALL BE REMOVED FROM THE SITE AND SHALL BE REPLACED.
6. PANELS SHALL BE STORED ON EDGE, POSITIONED TO ALLOW MOISTURE TO RUN OFF RATHER THAN ACCUMULATE ON THE FACES, AND SHALL BE SEPARATED SO AIR CAN CIRCULATE AROUND EVERY SURFACE.
7. THE ROOFING CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SHALL MAKE ANY FIELD MEASUREMENTS NECESSARY AND SHALL BE FULLY RESPONSIBLE FOR ACCURACY AND LAYOUT OF WORK.
8. METAL FINISH: ALL EXPOSED SURFACES OF PANELS AND FASCIAS SHALL BE GIVEN FACTORY APPLIED OVEN CURED FLUOROPOLYMER COATING WITH A MINIMUM OF FULL STRENGTH TO PERCENT SOLIDS CONTENT OF "KYNAR 500" RESIN OVER PRIMER IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN PROCEDURES, MINIMUM DRY FILM THICKNESS OF 1.0 MILS.
9. PROVIDE RANGE OF STANDARD KYNAR COLORS FOR COLOR SELECTION BY OWNER.
10. SEALANTS AND SEALING TAPE SHALL BE AS RECOMMENDED BY THE PANEL MANUFACTURER AND SHALL BE RATED FOR TWENTY(20) YEAR SERVICE LIFE.
11. EXPOSED FASTENERS SHALL BE STAINLESS STEEL. FOR WEATHERTIGHTNESS, SCREWS SHALL HAVE SEPARATE WASHERS WITH BONDED NEOPRENE FACES, AND POP RIVETS SHALL BE SET IN WET SEALANT. EXPOSED FASTENERS SHALL BE A MINIMUM #14 OR 3/16" DIAMETER RIVET.
12. ANCHOR CLIPS SHALL BE MANUFACTURER'S STANDARD, UL 90 RATED CLIP. CLIPS TO BE COORDINATED WITH INSULATION AND DECK SYSTEM SO FASTENERS AND COMPRESSION DISC DO NOT TELEGRAPH THROUGH METAL ROOF. IF BOTTOM OF METAL ROOF COMES IN CONTACT WITH SUBSTRATE, INCLUDE ONE LAYER OF ROSIN PAPER AS SEPARATOR.
13. ROOF JACKS AND CURBS: PANEL MANUFACTURER'S PROFILE, SIZES SHALL BE COORDINATED WITH APPLICABLE MECHANICAL EQUIPMENT. FURNISH AND INSTALL ALL ROOF CURBS REQUIRED FOR ALL ROOF PENETRATIONS ON THIS PROJECT.
14. FLASHING BOOT: PANEL MANUFACTURER'S STANDARD PROFILE, SIZES SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING VENTS THROUGH ROOF. FURNISH AND INSTALL ALL BOOTS AT PLUMBING STACKS ON THIS PROJECT.
15. CLOSURE STRIPS: PANEL MANUFACTURER'S STANDARD MATCHING PANEL PROFILE.
16. AFTER ERECTION, THE CONTRACTOR SHALL PROTECT EXPOSED PORTIONS FROM DAMAGE BY THE ELEMENTS, MACHINES, PLASTER, LIME, PAINT, ACID, CEMENT OR OTHER HARMFUL COMPOUNDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF PROTECTIVE MATERIALS, AS APPLICABLE, AND CLEANING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
17. ROOFING CONTRACTOR SHALL ISSUE THE OWNER A WRITTEN GUARANTEE TO MAINTAIN THE ROOFING, FLASHINGS, COUNTER FLASHINGS IN A WATER-TIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS FROM FINAL COMPLETION.

SHEET METAL

1. ALL SHEET METAL SHALL BE .040" THICK ALUMINUM FACTORY BAKED-ON KYNAR FINISH.
2. ALL SHEET METAL SHALL BE IN CONFORMANCE WITH S.M.A.C.N.A., ACCURATELY FORMED TO DIMENSIONS AND SHAPES AND SHALL BE COPIED TO FIT PRECISELY. ALL SEAMS SHALL BE PROPERLY RIVETED AND SEALED WITH NEAT, THIN, SMOOTH JOINTS. ALL EXPOSED ENDS SHALL BE HEMMED AND CLIPPED.
3. ALL SHEET METAL WORK SHALL BE FORMED AND INSTALLED TO PROVIDE SUITABLE ALLOWANCE FOR EXPANSION AND CONTRACTION. ALL INSTALLATIONS SHALL ENSURE WATERTIGHT CONDITIONS.
4. GUTTERS AND DOWNSPOUTS SHALL BE FORMED OF METAL SPECIFIED ABOVE IN ACCORDANCE WITH THE DRAWINGS AND SMACNA STANDARDS. OUTLET TUBES AND GUTTER ENDS SHALL BE FURNISHED AND INSTALLED AS REQUIRED IN ACCORDANCE WITH INDUSTRY STANDARDS.
5. SECURELY ANCHOR GUTTERS WITH HANGERS OF THE SAME MATERIAL. TELESCOPE END JOINTS OF DOWNSPOUTS 1 1/2 INCHES AND LOCK LONGITUDINAL JOINTS. FURNISH ALL ACCESSORIES AS REQUIRED, INCLUDING STAINLESS STEEL FASTENERS.

CAULKING

1. ALL WINDOWS, FLASHINGS, CRACKS, JOINTS, ETC. SHALL BE PROPERLY CAULKED WITH AN APPROVED CAULKING COMPOUND AND SUCH SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. CAULKING MATERIAL SHALL BE URETHANE BASED AND MANUFACTURED BY DOW-CORNING CO., 3M, OR GENERAL ELECTRIC CO.

HOLLOW METAL FRAMES AND DOORS

1. METAL DOOR FRAMES SHALL BE FORMED OF #16 U.S. STANDARD GAUGE STEEL FOR DOOR OPENINGS INDICATED. CORNERS SHALL BE MITERED, WELDED AND GROUND SMOOTH, COLD ROLLED, ANNEALED STEEL. REINFORCE JAMBS FOR HARDWARE AND PROVIDE AS REQUIRED. TEMPORARY STEEL ANGLE SPREADERS SHALL BE WELDED AT BOTTOM OF DOOR FRAMES TO ENSURE ALIGNMENT. FRAMES SHALL BE AS MANUFACTURED BY STEEL CRAFT, SECURITY, PIONEER OR APPROVED EQUAL.
2. METAL DOORS SHALL BE OF FLUSH TYPE CONSTRUCTION OF 16 GAUGE SHEET OUTER SHELLS WITH VERTICAL STIFFENERS SPACED AT 6" IN CENTER. DOOR SHALL BE REINFORCED, DRILLED AND TAPPED TO RECEIVE HARDWARE. AFTER ASSEMBLY, THOROUGHLY CLEAN. GRIND ALL WELDS AND JOINTS SMOOTH, FILL FLUSH WITH MINERAL FILLER TO CONCEAL SEAMS. APPLY TWO COATS OF MANUFACTURER'S STANDARD BAKED-ON RUST INHIBIT PRIMER. DOORS SHALL BE AS MANUFACTURED BY STEEL CRAFT, SECURITY PIONEER OR APPROVED EQUAL.

WOOD DOORS

1. DOORS SHALL BE 1 3/4" INCHES THICK AND SOLID DRY-RATED CORE COMPLYING WITH ANSI SECTION 1300, PC5 EXCEPT DOORS SHALL HAVE 1 1/8" INCH MEDIUM WIDTH HARDWOOD STILES MATCHING FACE VENEER.
2. VENEER TO BE "YELLOW BIRCH" NATURAL SPECIES, ROTARY SLICED. FACING QUALITY TO BE EQUAL TO ANSI PREMIUM GRADE.
3. DOORS TO BE FACTORY MACHINED FOR HARDWARE. SHOULD TRIMMING BE REQUIRED TRIM EQUALLY FROM OPPOSING SIDES.
4. FACES, STILES AND BOTH RAILS TO BE SEALED (AFTER NECESSARY TRIMMING) PRIOR TO INSTALLATION. DO NOT SEAL DOORS UNTIL BUILDING HAS REACHED THE AVERAGE PREVAILING RELATIVE HUMIDITY OF LOCALITY.

5. DELIVER DOORS TO PROJECT SITE AFTER MOISTURE PRODUCING OPERATIONS ARE COMPLETE.
6. PROVIDE WRITTEN GUARANTEE FROM DOOR MANUFACTURER STATING THAT DOORS WILL NOT DELAMINATE OR SHOW WARPAGE OF MORE THAN 1/4" FROM A TRUE PLANE FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. TELEGRAPHING OF TOP AND BOTTOM RAILS, INTERMEDIATE RAILS, REINFORCING OR STILES SHALL ALSO CONSTITUTE A FAILURE TO PERFORM UNDER THIS GUARANTEE.

STOREFRONT GLASS AND GLAZING

1. REFER TO PLANS, AND DETAILS AND FOR SIZE, AND TYPE.
2. MATERIALS: ALL GLASS AND GLAZING SHALL BE IN ACCORDANCE WITH THE STANDARDS AND RECOMMENDATIONS OF THE CURRENT EDITION OF THE GLAZING MANUAL OF THE FLAT GLASS JOBBERS ASSOCIATION.
- A. EACH PIECE OF GLASS SHALL BE LABELED, NOTING THE NAME OF THE MANUFACTURER, GRADE, QUALITY AND TYPE. LABELS SHALL BE INTACT BEFORE AND AFTER INSTALLATION.
3. EXTERIOR GLASS SHALL BE 1/2" CLEAR, FULLY TEMPERED WITH BUTT GLAZED JOINTS, JOINTS NOT TO EXCEED 3/8" GAP NOR LESS THAN 1/4". SEAL JOINTS WITH COMMERCIAL GRADE NEUTRAL CURE, CLEAR SILICONE. ACID CURE SILICONE WILL NOT BE ACCEPTED. APPLICATION SHALL BE TAPE AND TOOL.
4. MIRRORS SHALL BE "A" QUALITY 1/4" THICK POLISHED PLATE WITH FULL STAINLESS OR ALUMINUM FRAME AND CONCEALED FASTENERS.
5. STOREFRONT SHALL BE EQUAL TO VISTANALL ARCHITECTURAL PRODUCTS, OTHER APPROVED MANUFACTURERS ARE KAWNEER CO. AND EFCO.
6. ALL ALUMINUM STOREFRONT FRAMING AND DETAILS INDICATED ON THE DRAWINGS AND/OR DETAILS, SHALL BE EQUAL TO VISTANALL SERIES 2000. THE FRAMING SHALL BE ACCURATELY ASSEMBLED WITH UNEXPOSED FASTENERS UTILIZING EXTRUDED SPLINES, CLIPS AND/OR SNAP-IN FEATURES. ALL GLAZING SHALL BE HELD IN PLACE BY E.P.D.M. GLAZING GASKETS. NO APPLIED STOPS SHALL BE PERMITTED. ALL EXPOSED SURFACES SHALL BE FREE OF UNSIGHTLY SCRATCHES AND BLEMISHES. THE FINISH SHALL BE ANODIZED ALUMINUM.
7. FINISH OF ALL SILL FLASHINGS SHALL BE .040" ALUMINUM TO MATCH STOREFRONT MATERIAL.
8. DOOR FRAMES FOR ENTRANCE DOORS SHALL BE ALUMINUM STOREFRONT FRAME WITH CUT OUTS AND BACKING PLATES FOR (3) BUTT HINGES FOR EACH DOOR LEAF. LOCATION OF HINGES TO BE COORDINATED BY GENERAL CONTRACTOR WITH STOREFRONT SUBCONTRACTOR.
9. ALL DOOR AND FRAMING SECTIONS SHALL BE EXTRUDED ALUMINUM ALLOY AND TEMPERED TO MEET OR EXCEED FINISHING AND STRUCTURAL CRITERIA. DOOR STILES AND RAILS, EXCLUDING GLASS STOPS, SHALL BE TUBULAR AND HAVE 0.125" WALL THICKNESS. ALL WEATHERING SHALL BE HARDBACKED SILICONE TREATED POLYPROPYLENE. ANY EXPOSED FASTENERS SHALL BE ALUMINUM, STAINLESS STEEL OR OTHER NON-CORROSIVE MATERIAL. DOOR VERTICAL STILES SHALL BE NOMINAL 4-1/4", DOOR TOP RAIL SHALL BE NOMINAL 3-1/2", AND DOOR BOTTOM RAIL SHALL BE A MINIMUM OF 8-1/2". ALL DIMENSIONS NOTED ABOVE ARE WITH GLASS STOPS ON.
10. ALL EXPOSED SURFACES SHALL BE FREE OF UNSIGHTLY SCRATCHES AND BLEMISHES. THE FINISH SHALL BE ANODIZED, AS PER VISTANALL ARCHITECTURAL PRODUCTS STANDARD.
11. DOOR STILES AND RAILS SHALL BE ACCURATELY JOINED AT CORNERS WITH CONCEALED REINFORCEMENT BRACKETS SECURED WITH BOLTS AND SCREWS, AND SHALL BE "MIG" WELDED. DOORS SHALL HAVE SNAP-IN STOPS WITH BULB GLAZING VINYL ON BOTH SIDES OF GLASS. NO EXPOSED SCREWS SHALL BE PERMITTED. EACH DOOR LEAF SHALL BE EQUIPPED WITH AN ADJUSTING MECHANISM LOCATED IN THE TOP RAIL NEAR THE LOCK STILE WHICH PROVIDES FOR MINOR CLEARANCE ADJUSTMENTS AFTER INSTALLATION. WEATHERING SHALL BE INSTALLED IN THE HINGE STYLE OF PAIRS OF DOORS. DOOR FRAME AND SIDE-LIGHT FRAMING SHALL BE ACCURATELY JOINED AT CORNERS WITH CONCEALED SCREWS.
12. DESIGN CRITERIA FOR WIND LOADS SHALL BE IN ACCORDANCE WITH ASCE-7-98 DESIGN WIND VELOCITY OF 100.0 M.P.H., BUILDING IMPORTANCE FACTOR OF 1.15.
13. ALL HARDWARE FOR ENTRANCE DOORS, WITH THE EXCEPTION OF THE CYLINDERS, SHALL BE FURNISHED AND INSTALLED BY ALUMINUM STOREFRONT CONTRACTOR AS FOLLOWS:
- A. 1-1/2" PAIR OF 4-1/2" BUTTS
B. ADAMS-RITE 8400 SERIES MORTISE EXIT DEVICE
C. LGN SUPER SMOOTHIE MOUNTED PARALLEL ARM WITH DROP PLATE
D. BUG SHEEP WITH SLIDE ON COVER
E. MANUFACTURER'S STANDARD WEATHERSTRIPPING
F. PH - 11 PULL HANDLE ON EXTERIOR
G. ALL HARDWARE SHALL BE FINISHED AS SELECTED BY THE OWNER.

14. ALL ITEMS SHALL BE SET IN THEIR CORRECT LOCATIONS AS SHOWN ON THE DRAWINGS AND SHALL BE LEVEL, SQUARE, PLUMB, AND AT PROPER ELEVATION AND IN ALIGNMENT WITH OTHER WORK. THIS CONTRACTOR SHALL DO ALL CAULKING AND SEALING ASSOCIATED WITH HIS WORK.
15. SEAL ALL JOINTS. FRAMING MEMBERS SHALL BE SCREWED IN PLACE USING BACKING, ANCHOR PLUGS OR STRAPS AS REQUIRED. WHERE MOLDINGS ARE JOINED, THEY SHALL BE ACCURATELY CUT AND FITTED TO RESULT IN A TIGHTLY CLOSED HAIR-LINE JOINT. NO UNFINISHED ALUMINUM SHALL BE VISIBLE.
16. DOORS SHALL OPERATE FREELY AND SHALL NOT RATTLE WHEN CLOSED. SWING TYPE DOORS SHALL HAVE HEAD AND JAMB CLEARANCE OF 3/32" PLUS OR MINUS 1/32".
17. AFTER ERECTION, THE CONTRACTOR SHALL PROTECT EXPOSED PORTIONS FROM DAMAGE BY MACHINES, PLASTER, LIME, PAINT, ACID, CEMENT, OR OTHER HARMFUL COMPOUNDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF PROTECTIVE MATERIALS AND CLEANING PER STOREFRONT FRAMING MANUFACTURER'S PRINTED INSTRUCTIONS.

FINISH HARDWARE

1. ALL HARDWARE SHALL BE GUARANTEED FOR A PERIOD OF TWO (2) YEARS AFTER INSTALLATION. CONTRACTOR SHALL PROVIDE WRITTEN GUARANTEE TO OWNER.
2. ALL LOCKS SHALL BE CONSTRUCTION KEYED. ALL PERMANENT KEYS AND CONSTRUCTION KEY TOOL SHALL BE GIVEN TO OWNER ONLY. KEYING SHALL BE AS PER DIRECTION OF OWNER.

VENEER PLASTER AND EPS (EXTERIOR FINISH SYSTEM)

1. ALL WALLS, PARTITIONS, CEILINGS AND OTHER SURFACES AS CALLED FOR SHALL BE COVERED WITH 1/2" (GWB) AS MANUFACTURED BY U.S.G. CO. GYP BOARD SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S LATEST SPECIFICATIONS INCLUDING ALL METAL GROUND, BEADS, FURRING, ETC.
2. ALL GWB SURFACES WHICH ARE TO REMAIN EXPOSED SHALL BE FINISH TAPED AND SANDED SMOOTH.
3. USE WATER RESISTANT (GREENBOARD) GYP BOARD AT ALL AREAS EXPOSED TO MOISTURE AND FOR ALL WALLS RECEIVING CERAMIC TILE, SUCH AS SERVICE, STORAGE ROOMS, TOILET ROOMS, MECHANICAL ROOM, ETC.
4. VENEER PLASTER TO CONFORM TO A.S.T.M. C587 MIX AND APPLICATION PER MANUFACTURERS RECOMMENDATIONS.

CERAMIC TILE

1. TILE TO BE STANDARD GRADE COMPLYING WITH THE CURRENT REQUIREMENTS OF THE TILE COUNCIL OF AMERICA (TCA) AND INSTALLED PER TCA AND THE TILE MANUFACTURER RECOMMENDATIONS.
2. FINISH, COLOR, SIZE AND PATTERN OF TILE TO BE SELECTED BY THE OWNER. PROVIDE ALL REQUIRED TRIM PIECES FROM SAME MANUFACTURERS AS TILE.
3. MANUFACTURES EQUAL TO DAL-TILE WILL BE CONSIDERED.
4. PROVIDE GRADE A MARBLE THRESHOLDS AND WINDOW SILLS AT LOCATIONS AND SIZES INDICATED. SPLICES IN LESS THAN 6'-0" WILL NOT BE ACCEPTED.
5. GROUT AND SETTING BED COMPONENTS SHALL BE AS RECOMMENDED BY TILE MANUFACTURER.

SUSPENDED CEILING SYSTEMS

1. METAL SUSPENSION SYSTEM SHALL BE AS MANUFACTURED BY ARMSTRONG, UNITED STATES GYPSUM, CHICAGO METALLIC OR, AN APPROVED EQUAL.
2. PROVIDE ALL REQUIRED BRACING AND BACKING FOR ARCHITECTURAL TREATMENT INDICATED ON THE PLANS.
3. 2 X 2 LAY-IN ACOUSTICAL TILE SYSTEM SHALL BE ARMSTRONG, U.S. GYPSUM, OR EQUAL.
4. SUBMIT SAMPLES FOR OWNER'S APPROVAL.
5. CONTRACTOR SHALL PROVIDE OWNER WITH ONE (1) EXTRA BOX OF EACH TYPE TILE USED ON THE PROJECT.

RESILIENT FLOORING AND BASE

1. INSTALL IN CHECKERBOARD FASHION IN COMPLETE ACCORDANCE WITH MANUFACTURER'S DIRECTIONS AND SPECIFICATIONS.
2. CONTRACTOR TO SUPPLY OWNER WITH ONE ADDITIONAL FULL BOX OF REPLACEMENT TILE FOR EACH COLOR AND TYPE USED.
3. PROVIDE 4" COVED VINYL BASE EQUAL TO KENTILE OR ROPPE.

PAINTING

1. ALL PAINT MATERIAL SHALL BE OF FIRST QUALITY.
2. ALL HOLES, CRACKS, ETC. SHALL BE FILLED AND SANDED SMOOTH.
3. HOLIDAYS, BRUSH MARKS AND PAINT SPOTTING IS NOT ACCEPTABLE AND SHALL BE CORRECTED.
4. SURFACE PREPARATION AND APPLICATION OF PAINT AND STAIN MATERIALS SHALL BE DONE IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. ALL WOOD SURFACES TO BE NATURAL FINISH AND SEALED OR STAINED AND SEALED. USE FILLERS AS REQUIRED. USE APPROVED STAIN, SEALER AND FILLER APPLIED IN STRICT COMPLIANCE WITH LATEST MANUFACTURERS SPECIFICATIONS. USE MINWAX OR OLYMPIC STAIN SEALER AND FILLER, OR EQUAL.
6. ALL EXTERIOR HOLLOW METAL SHALL RECEIVE TWO COATS OF PAINT OVER SHOP APPLIED PRIME COAT, UNLESS OTHERWISE NOTED. PAINT COLOR SHALL BE SELECTED BY OWNER.

TOILET ROOM ACCESSORIES

1. PROVIDE AND INSTALL ALL TOILET ROOM ACCESSORIES, GRAB BARS, T.P. HOLDERS, MIRRORS, ETC. AS CALLED FOR ON DRAWINGS. MOUNTING HEIGHTS SHALL BE IN CONFORMANCE WITH CODE REQUIREMENTS IN THE FLORIDA BUILDING CODE.

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41/441 SOUTH
LAKE CITY, FLORIDA

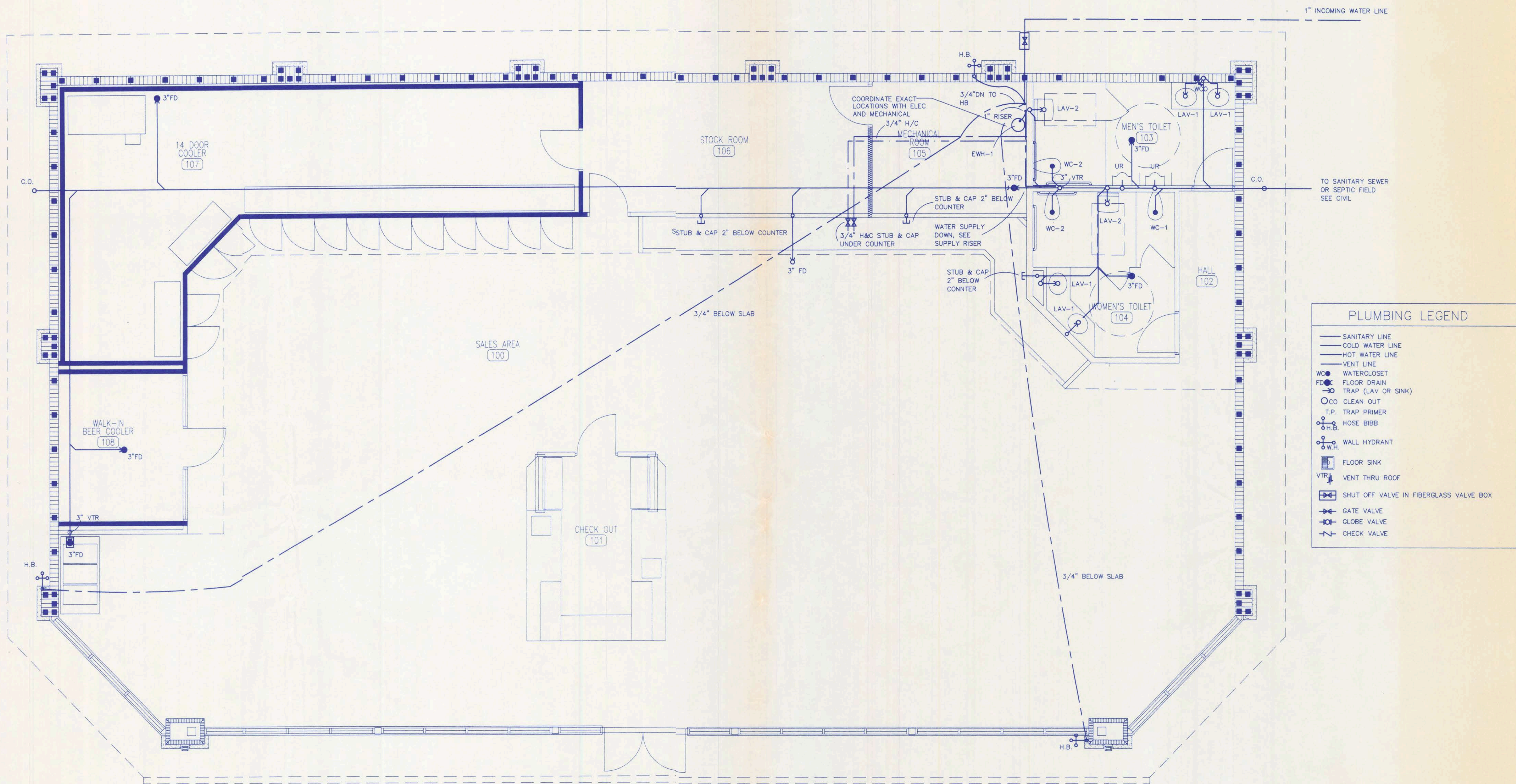
Craig Salley
10/2/03

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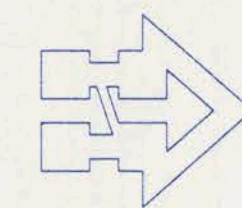
SP-2

OF
SHEETS 10



PLUMBING LEGEND	
—	SANITARY LINE
—	COLD WATER LINE
—	HOT WATER LINE
—	VENT LINE
WC	WATERCLOSET
FD	FLOOR DRAIN
—	TRAP (LAV OR SINK)
CO	CLEAN OUT
T.P.	TRAP PRIMER
H.B.	HOSE BIBB
W.H.	WALL HYDRANT
F.S.	FLOOR SINK
VTR	VENT THRU ROOF
+	SHUT OFF VALVE IN FIBERGLASS VALVE BOX
+	GATE VALVE
+	GLOBE VALVE
+	CHECK VALVE

PLUMBING PLAN
1/4" = 1'-0"



CRAIG SALLEY AND ASSOCIATES
ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
3911 NEWBERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. A0002719 • 352-372-8424



S & S FOOD STORE NO. 28
41/441 SOUTH
LAKE CITY, FLORIDA

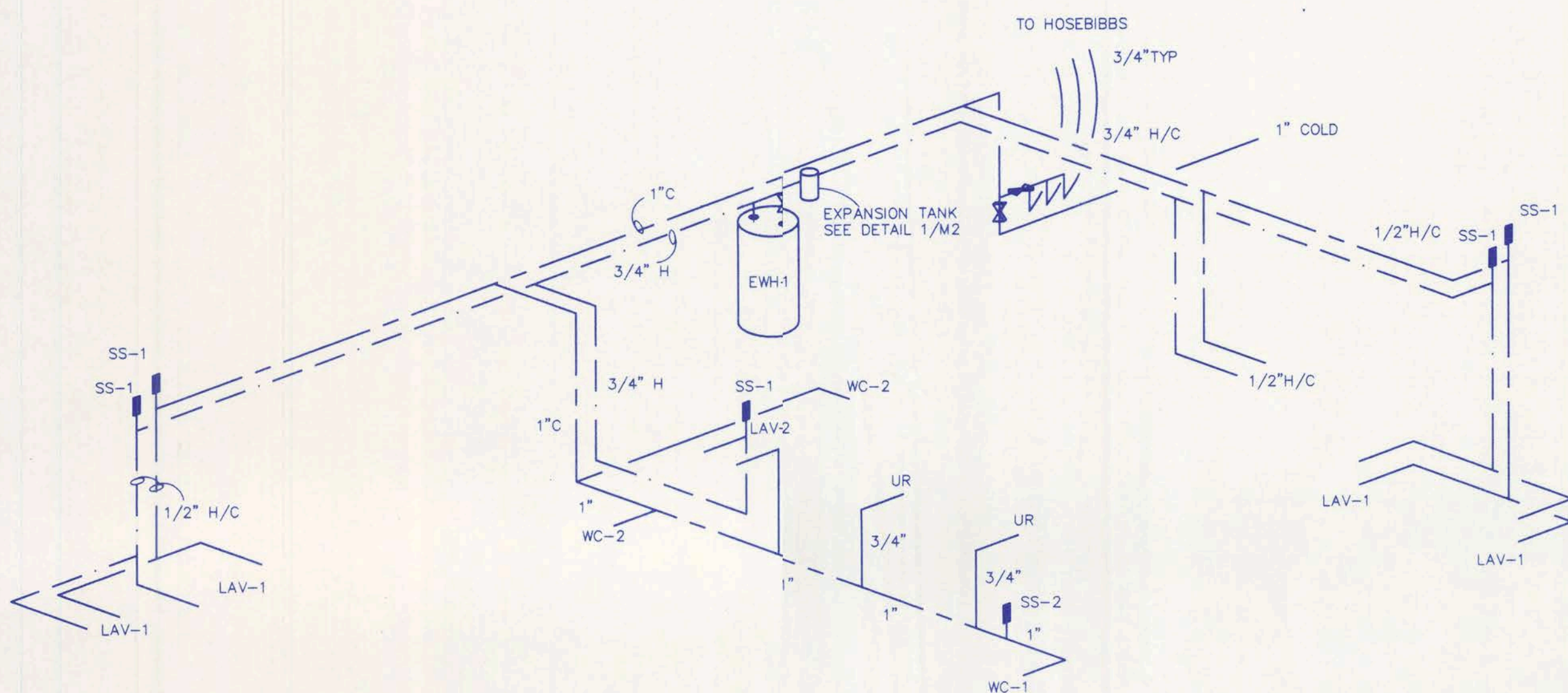
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FLORIDA LICENSED
ENGINEERS
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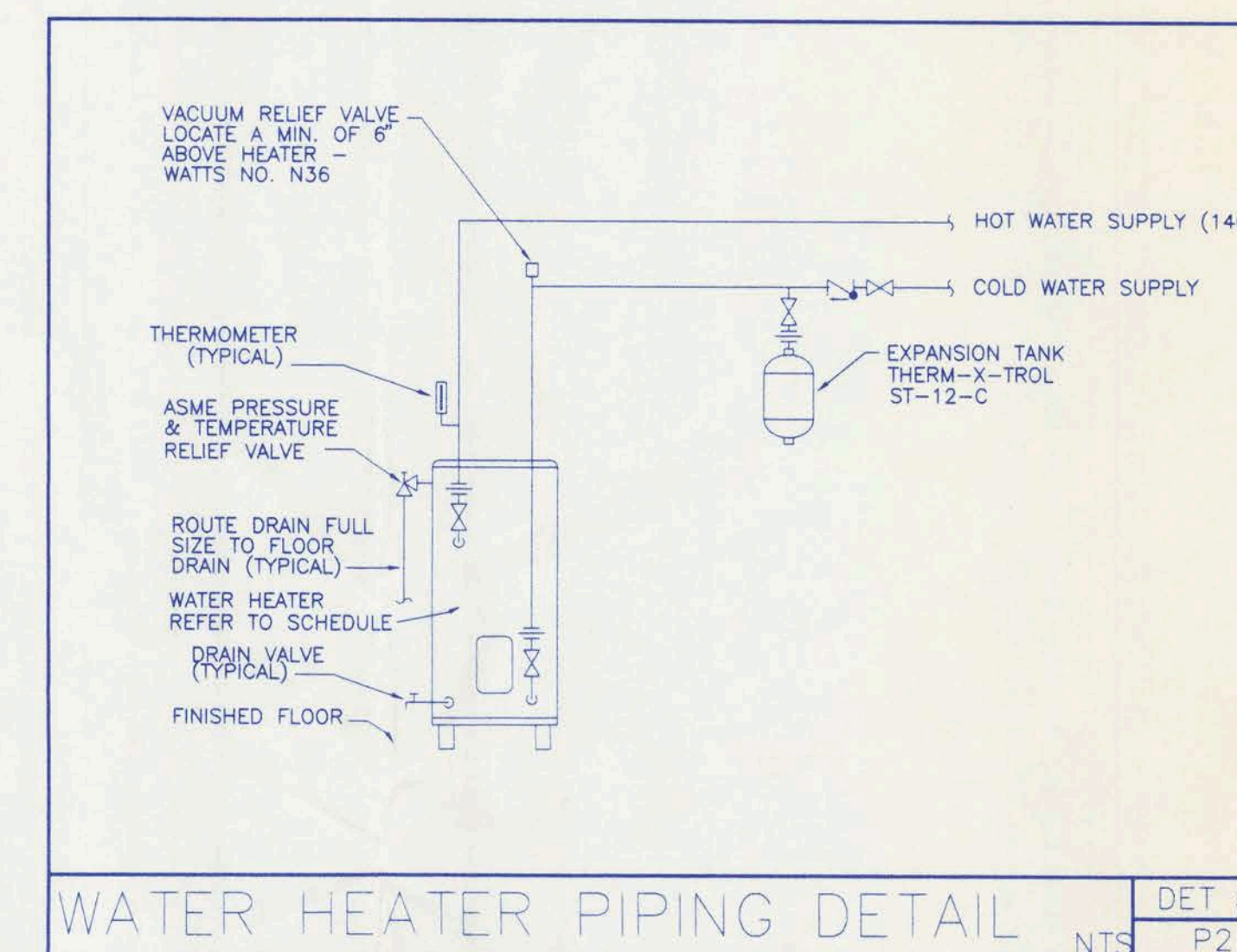
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OF
SHEETS 10



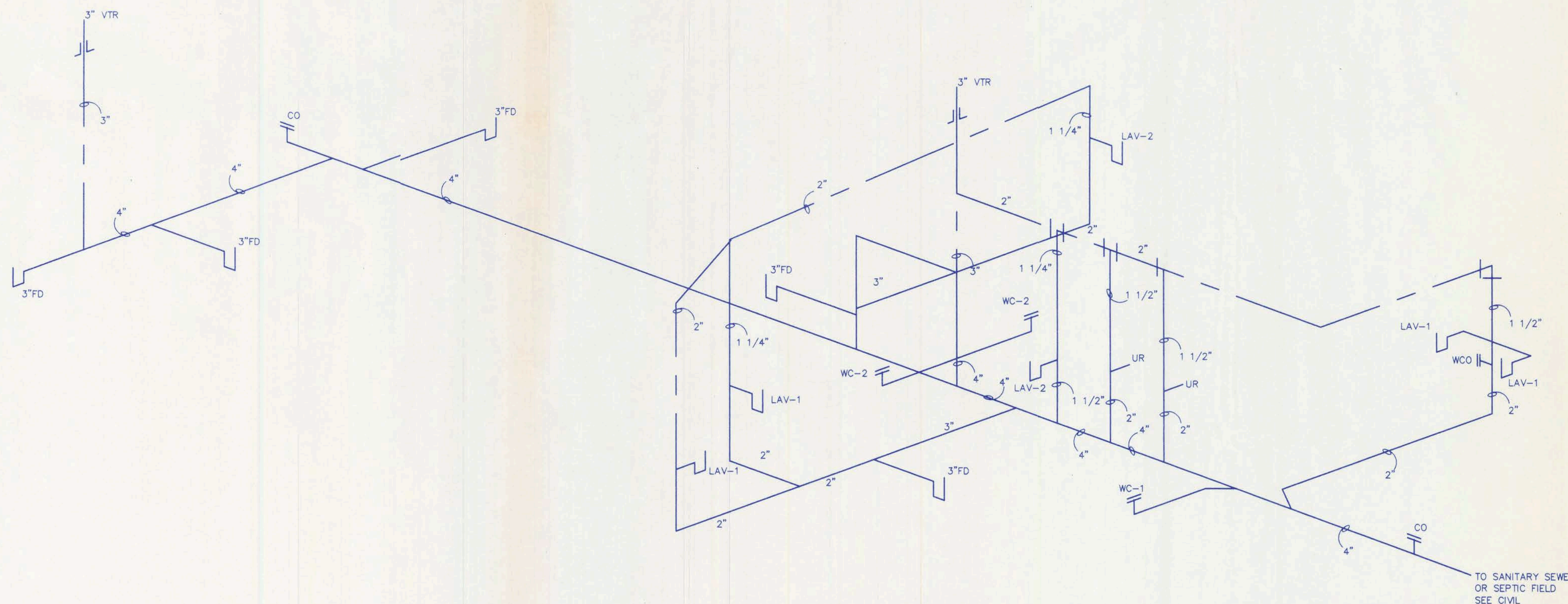
WATER SUPPLY RISER
NTS

MARK	DESCRIPTION	MANUFACTURER	MODEL	FITTINGS OR VALVES	SUPPLIES	TRAP	MOUNTING	ACCESSORIES	COLD	HOT	WASTE	VENT	REMARKS
WC-1	WATERCLOSET	AMERICAN STANDARD	CADET 2292.100(VERIFY) 1.6 GPF	BRASS SUPPLIES AND STOPS	—	INTEGRAL	FLOOR	SEAT	1/2"	—	3"	2"	STANDARD HEIGHT—PRESSURE ASSIST
WC-2	WATERCLOSET	AMERICAN STANDARD	CADET 2168.100(VERIFY)	BRASS SUPPLIES	—	INTEGRAL	FLOOR	CHURCH #9500C	1/2"	—	3"	2"	HAN.CAP HEIGHT—PRESSURE ASSIST
LAV-1	DROPP-IN LAVATORY	AMERICAN STANDARD	AQUALYN 0476.028	RELIANT 2385.003	BRASS CRAFT OCR1912AZ	CHROME BRASS	COUNTERTOP	GRID STRAINER	1/2"	1/2"	1 1/4"	1 1/4"	HOT TEMP LIMIT STOP
LAV-2	HANDICAP LAVATORY	AMERICAN STANDARD	ROXALYN 0195.073	RELIANT 2385.003	BRASS CRAFT OCR1912AZ	CHROME BRASS	WALLBRACKET	GRID STRAINER	1/2"	CAP	1 1/4"	1 1/4"	SUPPLY W/TRAP INSULATION KIT ADA COMPLIANT
UR	URINAL	AMERICAN STANDARD	MAYBROOK 6581.015	SLOAN ROYAL 186-1	—	INTEGRAL	WALLBRACKET		3/4"	—	2"	1 1/2"	MTG.HT. PER ARCH. ELEVATIONS ADA COMPLIANT
JAN	JANITOR SINK	STERN WILLIAMS SERVICE - CEPTOR	SBC-1502	T-15VB	11		FLOOR	T-35 HOSE T-40 BKT	1/2"	1/2"	2"	1 1/2"	MOP SINK



WATER HEATER PIPING DETAIL
NTS DET #1 P2

PLUMBING LEGEND	
SANITARY LINE COLD WATER LINE HOT WATER LINE VENT LINE	PLAN ISOMETRIC
WATERCLOSET (WC)	WC
TRAP (LAV OR SINK)	LAV
FLOOR DRAIN (FD)	FD
CLEAN OUT (CO)	CO
FLOOR SINK (FS)	FS
WALL CLEANOUT	WCO
HOSE BIBB (HB)	HB
WALL HYDRANT (WH)	WH
VENT THRU ROOF (VTR)	VTR
GATE VALVE	
GLOBE VALVE	
CHECK VALVE	
ELEC WATER HTR (EWH)	
SHUT OFF VALVE IN FIBERGLASS VALVE BOX	
WATER SUPPLY OUTLET	
SHOCK STOPS (PER SPEC)	
AIR CHAMBERS (PER SPEC)	
ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINAL GRADE
B/S	BELOW SLAB
HC	ADA ACCESSIBLE
JAN	JANITOR SINK SEE SPEC
LAV	LAVATORY
SOV	SHUTOFF VALVE
T	FLUSH VALVE TOILET
T.P.	TRAP PRIMER
U/G	UNDERGROUND
WC	TANK TYPE WATER CLOSET



SANITARY SEWER RISER
NTS



PLUMBING SPECIFICATIONS

A. It is the intent of these specifications to define the work and materials typically installed by a Plumbing Contractor. However, it is not intended to define a subcontract between the Plumbing Contractor and General. The General Contractor is responsible for the entire project and any questions regarding scope of work shall be directed to the General Contractor.

B. Work shall include all labor, materials, fixtures, equipment, tools and service necessary for installation, testing and adjusting of all mechanical systems shall be furnished and installed in compliance with the Drawings, Specifications, and any Addenda thereto.

C. Drawings and specifications shall be understood to cover, according to the intent and meaning, complete mechanical systems. Work shown and not specified, or work specified and not shown shall be performed as though mentioned in both.

D. Minor items and accessories reasonably inferred as necessary for the complete and proper operation of any system shall be provided by contractor or subcontractor for such system whether or not they are specifically called for.

E. Before submitting a bid, the Plumbing Contractor is to coordinate with the utility company to ascertain, in detail, the division of work, and the extent of performance by the Utility Company shall be furnished and performed by the Plumbing Contractor.

F. All work shall be performed or installed in strict accordance with Standard Plumbing Code of applicable rules, regulations and codes of local state and Federal Governments having lawful jurisdiction, and each contractor and subcontractor shall be responsible for such compliance.

G. Fees for permits, inspections, patent use, royalties, etc. shall be paid by the contractor.

H. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.

I. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.

J. All work shall be installed in accordance with the appropriate codes and satisfy the local inspector having jurisdiction.

K. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.

L. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.

M. Upon completion of each part of the mechanical system, the contractor shall demonstrate to the Engineer that each item on that system is installed with proper covers, safeties, controls, etc., and that all are in proper working order.

N. A set of "red-lined" mechanical drawings shall be carefully maintained at the job site. Actual conditions are to be put on the drawings in red on a daily basis so the drawings will continuously show locations and routings of piping, ducts, grilles, equipment, valves, and any equipment specified on the drawings or in these specifications.

O. Equipment and materials shall be new and meet or exceed specification requirements.

P. All product shall be current model for which replacement parts are available.

Q. Acceptable manufacturers are listed; additional manufacturers may request approval for their products up to 10 days in advance of bid. Engineer may require supplemental information prior to accepting or requesting an alternate.

R. All work shall be performed in compliance with OSHA regulations.

S. The Engineer will review one submittal and one resubmittal; subsequent resubmittals may require a review charge to be paid by subcontractor.

T. Shop drawings and product data shall be submitted on all equipment, fixtures, etc.

U. Submittals shall include all equipment to be installed by the subcontractor and all submittals must be made at same time.

V. Each package must have the General Contractors review stamp prior to submittal.

W. The Engineer will review one submittal and one resubmittal; subsequent resubmittals may require a review charge to be paid by subcontractor.

X. Shop drawings shall be labeled in the same designation as the drawings.

Y. Job conditions shall be inspected to determine prior to bidding in the following manner:

1. Site visit to determine:
- a. Existing conditions.
- b. How and where materials will be delivered and stored.
- c. Special problems encountered during construction.
- d. Examine all Contract Drawings and Specifications to determine:
- a. Type of construction to be used.
- b. How construction or work will affect the work of this Section.
- c. Nature and extent of work of other trades.

Z. Failure to determine existing conditions or nature of construction will not be considered as a basis for granting additional compensation.

AA. Installation

1. Contract Drawings show the arrangements and sizes of principal apparatus and devices to be provided under this Contract and connection thereto. These shall be followed as closely as actual building construction will permit.
2. Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.
3. No measurements shall be scaled from Drawings and used as definite dimensions for layout or fitting work in place.
4. Layout of equipment, as shown on the plans, shall be checked and exact location determined by dimension if equipment approved by the Architect.
5. Consult the Drawings for all dimensions, locations of partitions, sizes of structural member, foundations, etc.
6. Do not make final layouts until shop or equipment drawings are approved and job conditions verified.

AB. Excavation and Backfill:

1. Plumbing Contractor shall coordinate with General Contractor to determine the extent of work regarding excavation and backfill.

AC. Rough-in:

1. Contractor shall rough-in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or by Owner.
2. Determine in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases provided during construction.
3. Install all inserts for hangers and supports of mechanical work and equipment work as general construction progresses.
4. Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled.
5. Sleeves shall be required at all points where piping passes through concrete walls, slabs or masonry walls; sleeves installed below grade or where subject to high water conditions shall be installed watertight.

AD. Coordination

1. Work shall be coordinated between all Contractors, Subcontractors, Installers, Suppliers, Trades, etc., to:
- a. Insure a neatly fitted installation.
- b. Determine the nature and extent of the work of others.
- c. Eliminate interferences.
- d. Maintain maximum headroom and clearances.
- e. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:
- a. Cease installation of that portion of the work which is in conflict as in additional compensation will be allowed for any relocation, etc.
- b. Continue work only on other portions of the work which are not in conflict.
- c. Notify the Architect immediately.
- d. Architect's decision shall be final as to any relocation, rerouting, removal, etc.
- e. No additional compensation will be allowed for removal, relocation, repairs or changes required by interferences.
- f. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job and equipment in clean first-class condition.
- g. Where factory finish is provided on equipment, all marred or damaged surfaces shall be touched-up or refinished hereunder as approved.
- h. All plumbing fixtures shall be thoroughly cleaned of all plaster, stickers, rust stains, and other foreign matter, and be left ready for use.
- i. Surfaces of all floor drains, cleanouts and other equipment shall be cleaned and left in first-class condition.

AE. CHLORINATION OF DOMESTIC WATER LINES

- A. Disinfection of all water piping which shall carry potable water or any other piping connected thereto which is not separated by a backflow preventer.
- B. Disinfection shall be chlorine, either in the form of hypochlorite solution or in the form of compressed gas applied through an approved chlorinator.
- C. After completion of all tests, replacement, and repairs, all water supply systems shall be thoroughly flushed with water to remove sediment and/or debris.
- D. Begin disinfection only after flushing system.
- E. The system shall be filled with a solution containing 50 parts per million available chlorine and allowed to stand for twenty-four hours, or as required by local authorities, whichever is greater.
- F. During chlorination all valves and equipment shall be operated to insure that chlorine reaches all parts of the system.
- G. Following disinfection all treated water shall be flushed from the system through its extremities until the quality of water delivered is comparable with the quality of the public water supply and satisfactory to the public health authority having jurisdiction.
- H. Disinfection and flushing shall be repeated if samples taken daily over a period of three days show that water quality is not being maintained.
- I. Samples shall be taken only from taps located and installed in such a manner that they will not contribute any contamination.
- J. Samples shall not be drawn from hydrants or through unsterilized hose.
- K. If disinfection and flushing has been repeated three times and water quality cannot be maintained, the Architect shall have the authority to require disassembly of piping as he shall deem necessary to determine the cause of contamination.
- L. Any disassembly, cleaning or repair shall be at no additional expense to the Owner.
- M. Disinfection, flushing and testing shall be repeated upon reassembly of the piping.

PIPE AND FITTINGS

A. Refer to "PIPING SCHEDULE" on drawings.

B. Any manufacturer engaged in the production of pipe, fittings and associated materials and who test, inspect and certify that said materials meet or exceed the ASTM designation for that material shall be acceptable.

C. Inspection for Underground Piping:

1. Examine areas to receive underground piping for:
- a. Complete excavation to elevations and slopes indicated.
- b. Obstructions which would interfere with drainage system installation.
2. Begin work only when conditions are satisfactory.

D. Inspection for Above-Ground Piping:

1. Examine areas to receive piping for:
- a. Obstructions.
- b. Work to be done prior to other construction.
2. Begin work only when conditions are corrected satisfactorily.

E. Installation of Underground Piping

1. Excavation:
- a. Excavate trenches of sufficient width for proper installation of pipe.
- b. Sheet and brace trenches as necessary to protect workmen and adjacent structures.
- c. Comply with current OSHA standards.
2. Final grading of trench:
- a. Perform final grading of trench bottoms by hand tools; carry machine excavation only to such depth that soil bearing for pipes will not be disturbed.
- b. Grade bottom of trenches evenly to insure uniform bearing for all piping.
- c. Cut holes as necessary for joint making.
- d. Keep trenches free from water while construction is in progress.
- e. Use surveyor's level to establish elevations and grades.
- f. Machine excavation shall be held a sufficient distance from foundations and footings.
- g. Provide and maintain barricades and temporary bridges around excavations as required for safety.
- h. Water lines may be banded above sanitary lines in same trench if they are 18 inches or more above the sanitary line.
- i. Minimum bury depth for water piping shall be 24 inches.
- j. Grade horizontal drainage 1/4 inch per foot minimum.
- k. Install same type material specified for the inside building to 8 feet outside building.
3. Backfill:
- a. Backfill for all sewer lines shall be placed in accordance with manufacturer's printed instructions.
- b. Backfill trenches only after piping has been inspected.
- c. The backfill below paved areas and walks shall be brought to within 6 inches of finished grade; the remaining six inches shall be backfilled with clean topsoil.
- d. The backfill below sodded or seeded areas shall be brought to within 6 inches of finished grade; the remaining six inches shall be backfilled with clean topsoil.
- e. Provide and place any additional fill material from off the site as may be required for backfill.

F. Installation of above-Ground Piping:

1. Pipe supports.
- a. Support piping as specified in Section 15094 for permanent installation.
- b. Pipe shall be adequately supported during construction with blocking or slings to prevent injury to personnel or damage to equipment or materials.
2. Exposed piping.
- a. Run exposed piping true and level.
- b. Run vertical exposed piping plumb.
- c. Run exposed piping with as few elbows and bends as possible.
- d. Group piping wherever practical at common elevations.
- e. Install concealed pipes close to building's structure to keep furring to a minimum.
- f. Slope water piping 1 inch in 40 feet and arrange to drain at low points.
- g. On closed systems, equip low points with 3/4 inch drain valves and hose nipples.

GA. COPPER PIPE

1. Domestic Water Supply Above Grade or Slab
- a. Type L, Hard copper
2. Joints
- a. Solder using lead-free solder and non-corrosive flux
3. Fittings
- a. Wrought copper or cast brass
- b. Steel fittings prohibited.

GB. Water Supply Below Grade or Under Slab (Larger than 3/4")

1. Type K, Hard drawn copper tubing.
2. Joints
- a. Solder using Silver solder or "Sil-Fos."
3. Fittings
- a. Wrought copper or cast brass

GG. PLASTIC PIPE AND FITTINGS

- A. Vent piping (Above grade).
1. Piping shall be PVC.
2. Polyvinyl Chloride (PVC) - ASTM D-1784-60T
- a. Schedule 80
- b. Type 1, Grade 1
- c. Pipe shall bear NSF seal and ASTM designation
3. Joints
- a. Bonded joints using adhesive per manufacturer's recommendations
4. Fittings
- a. PVC - ASTM D-2685-69
- b. ABS - ASTM D-2681-69
- B. Sanitary piping (Below Grade).
1. PVC
- a. Schedule 80
- b. Type 1, Grade 1
- c. Pipe shall bear ASTM designation and NSF seal
2. Joints
- a. Bonded joints using adhesive per manufacturer's recommendations
3. Fittings
- a. PVC - ASTM D-2685-69

HH. TRAPS

- A. General
1. All fixtures shall be trapped according to the Standard Plumbing Code.
2. All traps shall be the same size as the pipe in which they are installed or as sized on the Drawings.
3. All traps above grade shall have a clean-out plug in the bottom of the trap.
4. All traps above grade shall be cast brass with chrome finish.
5. All traps below grade shall be cast iron.
6. No trap below grade shall be less than 2 inches.
7. No fixture shall be double trapped.

II. SHOCK ABSORBERS

- A. Furnish and install shock absorbers on all domestic water piping as shown on the drawings, and/or as specified in this section.
- B. Acceptable Manufacturers
1. Wade
2. Josam
- C. Description
1. Heavy duty casing
2. Minimum burst pressure - 4500 psig.
3. Nested belows with built in stop.
4. Operating temperature 100 to 300 degrees F.
5. Permanently sealed charge of non-combustible gas.
6. All stainless steel.
7. Designed and built in accordance with plumbing and drawing standard PDI-WH201.
- D. Model Numbers (Zurn numbers used for reference only)
1. SS-1, MODEL 1250 - A - 1/2"
2. SS-2, MODEL 1250 - B - 3/4"
3. SS-3, MODEL 1250 - C - 1"
4. SS-4, MODEL 1250 - D - 1 1/2"
5. SS-5, MODEL 1250 - E - 2"
6. SS-6, MODEL 1250 - F - 2 1/2"

PIPE HANGERS AND SUPPORTS

A. All piping shall be supported by pipe hangers, clamps, clips or supports as specified in this Section.

B. All clevis type hangers shall have a minimum of 1 1/2 inches of vertical adjustment by using turnbuckles and/or threaded rods.

C. All adjustments shall be positively secured by a locknut or setscrew.

D. Hangers shall support the pipe size for which they are manufactured.

E. Acceptable Manufacturers

1. Grinnell
2. Fee and Mason

F. All clamps, hangers, clevis, etc. shall be steel.

G. Pipe hangers in direct contact with copper shall be copper or lead plated, or of an approved dielectric material.

H. Installation:

1. All piping shall be supported from structural building members, i.e. block, beams, columns, purlins, floor joists, etc.
2. Piping shall not be supported from ceiling tile or grids, conduit, mechanical equipment, ductwork or non-structural steel.
3. Perforated strapping may be used only for piping 3/4 in. or smaller and only when concealed in walls or ceilings.
4. Hangers for piping run flush along the walls shall be stamped steel straps similar to conduit straps for pipe sizes two (2) inches and smaller.
5. Hangers for piping run flush along the walls shall be steel wall brackets with steel clevis type hangers and threaded rod supports for pipe over two (2) inches.
6. Hangers for piping run along walls shall be clevis type hangers with threaded rod supports for all piping over 3/4 inches.

I. Spacing:

1. Vertical runs of piping not over 15 feet long shall be supported by hangers placed not over one foot from elbows or connecting horizontal run.
2. Hangers shall be placed so as to prevent sag and permit proper drainage.
3. Hangers shall not be placed at more than the maximum distances shown on the Table below.

Pipe Size	Max. Span - Ft.
1/2 and 3/4	6
1 and 1-1/4	8
1-1/2, 2, 2-1/2	10
3 and 4	12
5 and 6	14
8 and larger	16

J. Concentrations of valves and fittings will require closer spacing.

K. Hanger Attachments:

1. Pipe hangers shall be attached to structural steel by heavy steel clamps.
- a. Clamps shall be bolted to steel or welded.
2. Pipe hangers or clamps shall be attached to walls by means of expansion bolts (shields).

UNIONS

A. Size

1. All unions shall be the same size as the line in which they are installed unless noted otherwise.

B. Location

1. Unions shall be located between the shut-off valve and each of the following:
- a. Inlet and outlet to all water heaters
- b. Lavatories and sinks
- c. Water coolers
- d. Water closets and toilets
- e. Inlet and outlet of cooling coil
- f. Inlet and outlet of pumps
2. Where final fixture connection is made by compression-type fitting, unions shall not be required.
- a. This exception does not apply to water heater.

C. Acceptable Manufacturers

1. Crane
2. Jenkins
3. Vogt
4. Stockman

D. Unions for 2-1/2 inches and smaller copper

1. Brass ground joints, brass body
2. 150# rated
3. Sweet to threaded to match the system in which they are installed

E. Install in locations where wrenches can be used on each half of the union with enough clearance for at least 180 degrees of rotation on a 6" pipe wrench.

VALVES, COCKS AND FAUCETS

A. Hot, cold, and/or tempered water

1. Shutoff valves above grade
- a. Bronze Gate Valve
2. Shutoff valves below grade
- a. Bronze Gate Valve
- (1) Install in fiberglass box with cover
3. Drain valves
- a. Bronze Gate Valves

B. Acceptable Manufacturers

1. Crane
2. Vogt
3. Sterling
4. Nibco

C. Bronze gate valves:

1. 3 inch and smaller
- a. Rising stem, wedge disc gate, bronze body
- b. 200 psi, water, oil, gas
- c. Stuffing, box and brass gland, screw-in bonnet
- d. Threaded ends
- e. Model equal to Nibco T-111
2. Bronze Gate Valve
1. 3 inch and smaller
- a. Rising stem, bronze only
- b. 150 psi, water oil gas
- c. Stuffing box, brass gland, screw-in bonnet
- d. Threaded ends

E. Hose Bibbs

1. 3/4" Female thread inlet
2. 3/4" Male thread hose outlet
3. Rough chrome plated
4. Loose-key type
5. Provide with vacuum breaker
6. Model
- a. Equal to Chicago No. 3877-E27, Nibco 763-LS or equal
7. Provide with vacuum breaker.

F. Check Valve

1. Swing check valve
2. Screwed ends and cap
3. Bronze ground disc
4. 200 lb WOG
5. NIBCO T413 or equal

G. Wall Hydrant WH

1. Fully recessed with "key" operated cover.
2. 3/4" female inlet
3. 3/4" male threaded hose outlet
4. Rough chrome plated
5. Vacuum breaker.

PRESSURE - TEMPERATURE RELIEF VALVE

A. Supply a pressure relief valve on each hot water heater and hot water booster heater tank.

B. Valve size, pressure, and temperature rating shall be as specified by the tank manufacturer, except that in no case shall the valve be smaller than 3/4 inches inlet and outlet.

C. Valve shall have a handle for manual operation and testing.

D. Valve shall be cast brass or bronze.

E. Pipe the outlet of the pressure-temperature relief valve to outside of building and terminate 2" above grade or per local code.

II. INSULATION

1. Rigid lightweight heavy density fiberglass with jacket.
2. Temperature classifications 650 F.
3. Insulation, jacket, and adhesive shall be tested under procedure ASTM E-84, NFPA 255, and UL 723, not exceeding
- a. Flame spread - 25.
- b. Smoke developed - 50.
- c. Equal to Johns-Manville Micro-Lok 650 AP-T.
- D. Closed Cell Rubber Insulation
1. Closed cell, elastomeric tubular pipe insulation.
2. Tested under procedure ASTM E-84, NFPA 255, and UL 723 not exceeding
- a. Flame spread - 30.
- b. Smoke density - 100.
3. Adhesive
- a. Air drying contact cement
- b. Equal to Johns-Manville "Aerotube Elastomeric Pipe Insulation."

E. Install insulation only after pipe has been thoroughly inspected and tested and accepted by the Architect, Engineer and State or local inspectors.

F. All surfaces to receive insulation shall be cleaned of all dirt, grease, and moisture prior to installing any insulation.

G. Installation of Fiberglass Insulation:

1. All insulation shall be continuous through wall and ceiling openings.
2. Vapor barrier jackets shall be used on piping except domestic hot water.
3. Hangers, supports, etc., that are secured directly to cold surfaces must be adequately insulated and vapor sealed to prevent condensation.
4. Metal shields shall be applied between hangers or supports and the pipe insulation.
5. Shields shall be formed to fit the insulation and shall extend up to the centerline of the pipe and a minimum of 8 inches long.
6. Shields shall be 16 gauge aluminum.
7. Fittings shall be covered equivalent density insulation and covered with preformed PVC insulation (flexible) covers.
- a. Wrap fittings with insulation.
- b. Pop the preformed cover in place, tape or tack.
- H. Installation of Closed-Cell Rubber:
1. Make all cuts neatly with a razor blade or sharp knife.
2. All longitudinal cuts shall be sealed with adhesive.
3. All butt joints shall be made neatly and sealed with adhesive.
4. Tape shall not be allowed on joints or seams.
5. Insulation shall be applied in a relaxed state, not stretched or crushed.
6. Fittings shall be insulated by fabricating tees, elbows or crosses as required from the tube insulation as described in manufacturer's literature.
7. Valves shall be insulated up to the packing nut.
8. All insulation on exposed piping shall receive two (2) coats of paint, the same color as the wall against which it is mounted.
9. Joints shall be sealed with adhesive as recommended by the manufacturer.

FLOOR AND SHOWER DRAINS

A. Acceptable Manufacturers

1. Wade
2. Josam
3. Zurn

B. Floor Drains:

1. Cast iron floor drain with integral clamping collar.
2. Seepage openings.
3. Heavy duty grate, with vandaproof screws.
4. Square top, polished brass.
5. Adjustable top.
6. 4-inch outlet unless otherwise noted on Drawings.
7. Model - equal to Wade, Series W - 1390.

C. Shower Drains:

1. Cast iron floor drain with integral clamping collar.
2. Seepage openings.
3. Heavy duty grate, with vandaproof screws.
4. Square top, polished brass.
5. Adjustable top.
6. 4-inch outlet unless otherwise noted on Drawings.
7. Model - equal to Wade, Series W - 1390.

D. Floor Drains:

1. Cast iron floor drain with integral clamping collar.
2. Seepage openings.
3. Heavy duty grate, with vandaproof screws.
4. Square top, polished brass.
5. Adjustable top.
6. 4-inch outlet unless otherwise noted on Drawings.
7. Model - equal to Wade, Series W - 1390.

E. Installation:

1. Floor drains shall be installed in the locations shown on Plans.
2. Care shall be taken that rim of floor drain is not higher than finished floor in order to prevent "puddling" of water around the drain.
3. Floor drain top shall be flush with finished floor.
4. Hub drains shall extend 1 inch above finished floor per details.

CLEANOUTS AND ACCESS COVERS

A. Provide cleanouts as shown on the Drawings or as required by Standard Plumbing Code.

B. Acceptable Manufacturers

1. Wade
2. Josam
3. Zurn

C. Floor Cleanouts:

1. Same size as drain pipe through 4 inches.
2. Adjustable housing to match finished floor.
3. Heavy duty top.
4. Nickel brass secured cover.
5. Ferrule as required to match soil pipe.
6. Cast iron.
7. Cover shall be marked "C.O."
8. Model Number:
- a. Synthetic floor covering:
- (1) Wade W-7030-D Series or equal
- b. Finished slab - no covering:
- (1) Equal to Wade W-7030 Series
- c. Terrazzo finish:
- (1) Wade W-7010-U Series, or equal.

D. Concealed Cleanouts:

1. Cleanouts in crawl space or in unfinished mechanical rooms.
2. Cast iron cleanout tee on T-wall with ferrule fitting and neoprene seal raised plug head.
3. Same size as drain pipe through 4 inches.
4. Position cleanout plug for easy access by electric eel.
5. Model Number:
- a. Cleanout ferrule.
- (1) Wade W-8530-B Series or equal.

E. Exposed Wall Cleanouts

1. Same size as pipe.
2. Polished chrome cleanout cover over wall opening.

F. Install all cleanouts and coverplates flush with the finished floor in which they are installed.

1. Any cleanout which presents a tripping hazard due to improper installation shall be removed and reinstalled.

DOMESTIC WATER HEATERS - ELECTRIC

A. Water heaters shall be UL listed, ASME constructed, and meet ASHRAE 90-80 energy efficiency standards.

B. Acceptable Manufacturers

1. A.O. Smith
2. Lochinvar
3. Teledyne Laars

C. Electric Water Heaters

1. Glass lining fused to steel tank
2. Screw-in type, direct immersion
3. Working pressure - 150 PSI
4. Fully automatic thermostat controls with high temperature limit safety shutoff
5. Screw-in anode corrosion protection
6. Three-year warranty
7. 3/4" inlet, outlet, and relief opening
8. Outer jacket of baked enamel finish

D. Model and Capacity

1. REFER TO ELECTRIC WATER HEATER SCHEDULE.

E. Install per manufacturer's recommendations

F. Mount units on wall shelf where noted.

G. Provide thermostatic relief valve on each unit.

II. PLUMBING FIXTURES

- A. Furnish and install plumbing fixtures per Plumbing Fixture Schedule
1. Manufacturers and Model Numbers establish quality; equivalent fixtures by other manufacturers are acceptable.

ELECTRIC WATER COOLERS (EWC)

A. Acceptable Manufacturers

1. Oasis
2. Halsey Taylor
3. Elkay

B. Regular Model

1. Semi-recessed
2. Stainless steel top, sides and front
3. 14 inches from wall to front
4. Self-closing pushbutton valve with optional "soft touch" handle
5. Part No. 623754-001, write direct.
5. Automatic pressure regulating valve
6. Mounting height - 31" floor to top of basin
7. Water delivery
- 14 GPH at 50 degrees F water
8. Model and Manufacturer:
- a. Equal to Oasis Model ODP-14M
9. Accessories:
1. Furnish with 1-1/4" ground joint tubular, 17 gauge, chrome-plated
2. Trap, deep flange with brass nuts; less cleanout, Sterling 50190 or Dearborn 207-D-F-BN.
3. Furnish with supply assembly equal to Kohler 7666 with loosekey stop and flexible 3/8" tube risers.
- C. Unit shall be installed on wall using bracket supplied by the manufacturer.
- D. Unit shall be blocked and supported per manufacturer recommendations.
- E. Unit shall be installed per ANSI Standard 117.1-1980, Section 4.15.

CRAIG SALLEY AND ASSOCIATES
ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
3911 NEWBERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. AA0002479 • 352-372-9424



S & S FOOD STORE NO. 28
41/441 SOUTH
LAKE CITY, FLORIDA

CUBERN & ASSOCIATES
FLORIDA LICENSED
ENGINEER
NO. 12000
HALL COUNTY, FLORIDA
MICHAEL J. CUBERN
E-1000

DATE
10/2/03
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P-3

OF
SHEETS 10

MECHANICAL EQUIPMENT SCHEDULE SPLIT SYSTEM HEAT PUMP (3ø)

HP-1/AHU-1
Split system heat pump shall be equal to a Trane TTA180B condensing unit and a Trane TWE180B air handler. Unit capacity shall be 185,000 BTUH total, 131,000 BTUH sensible air flow 6000 CFM, EER=3.0, IPLV 10.3 heating Capacity/CFM shall be High - 172,000/3 Low - 90,000/2.1. Electric Heater model BAYH-RM320A 14.96 KW @ 208v 3 ph. AH single point connection, MCA = 66 HACR Bkr = 80A. Condensing unit power - 1 compressor @ 24.7 amps, (1) condenser fan @ 3.1 amps. MCA = 61.8 amp. Max HACR Breaker = 80 amps @ 208 volts 3 phase

NOTE: DURING STORE HOURS AH-1 SHALL RUN CONTINUOUS FAN AND BE INTERLOCKED WITH ERV-1 WHICH SHALL ALSO RUN CONTINUOUSLY WHEN THE STORE IS CLOSED. ERV-1 SHALL BE OFF AND AH-1 SHALL CYCLE WITH THE THERMOSTAT.

GRILLE & DIFFUSER SCHEDULE										
MARK	TYPE	MANUF.	MODEL	NOM. CFM	NECK SIZE	AIR PATTERN	N.C.	MAT'L	FINISH	COMMENTS
(A)	SUPPLY	TITUS	TDCA-AA	500	12X12/12"	4WAY	<29	2	1	1,2
(B)	SUPPLY		TDCA-AA	100	6X6/6"	4WAY	<29	2	1	2
(C)	SUPPLY		250-L1	250	8X8	1WAY	<29	2	1	2
(D)	RETURN		FL		24X48	RET	<29	2	1	2

MATERIAL:
1. STEEL
2. ALUMINUM
3. STAINLESS STEEL

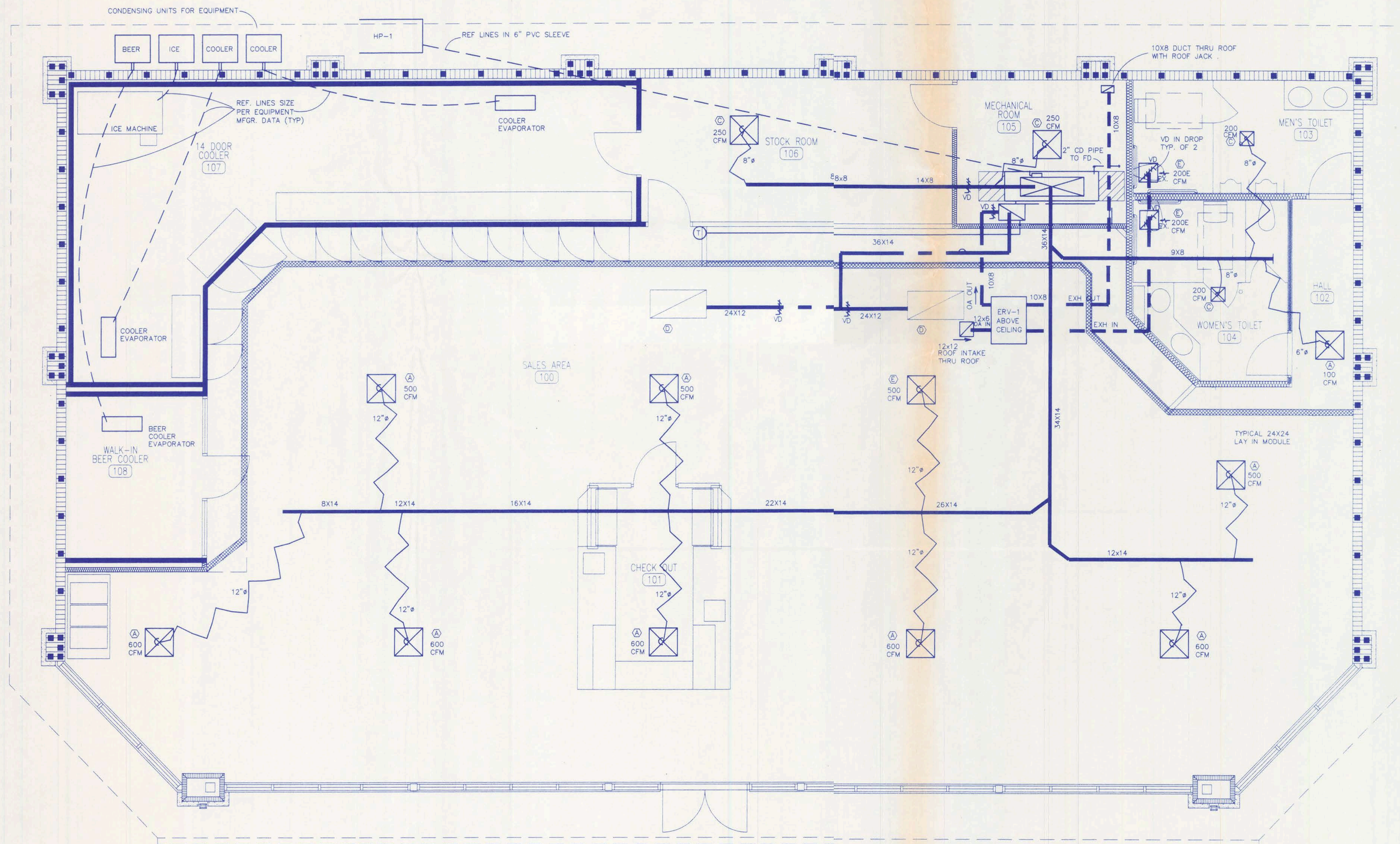
FINISH:
1. WHITE ENAMEL
2. ANODIZED CLEAR
3. NATURAL

MOUNTING:
1. 24" X 24" LAY-IN
2. DRYWALL
3. GRILL BOTH SIDES
4. SQUARE/ROUND ADAPTER
5. SOFFIT

COMMENTS:
1. OPPOSED BLADE DAMPER
2. EQUALIZING DEFLECTOR
3. 13/16" BORDER, 1/2" SLOT WIDTH, 8 SLOTS
4. 13/16" BORDER, 1/2" SLOT WIDTH, 6 SLOTS
5. 72" X 32" NOMINAL SIZE
6. 3 WAY
7. SIDEWALL
8. INSECT SCREEN

ENERGY RECOVERY UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NO.	AREA SERVED	CFM		STATIC		FAN WATTS		OUTDOOR CONDITIONS		INDOOR CONDITIONS		SUPPLY AIR COND.	
				SUPPLY	EXHAUST	SUPPLY	EXHAUST	SUPPLY	EXHAUST	DRY BULB	WET BULB	DRY BULB	RH	DRY BULB	WET BULB
ERV-1	GREENHECK	MINIV-450	ENTIRE BLDG	500	400	0.25	0.25	452	452	92	78	75	50	81.5	69



MECHANICAL LEGEND

- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- SUPPLY DIFFUSER, SEE DESIGNATION FOR TYPE
- RETURN GRILLE, SEE DESIGNATION FOR TYPE
- EXHAUST GRILLE, SEE DESIGNATION FOR TYPE
- DUCT SCOOP TAKEOFF WITH BALANCING DAMPER
- DIFFUSER/GRILLE TYPE SEE SCHEDULE
- TURNING VANES
- MANUAL VOLUME DAMPER
- MOTORIZED VOLUME DAMPER
- CONDENSATE DRAIN LINES
- REFRIGERANT LINES
- CONDENSATE DRYWELL, SEE DETAIL
- ROOF MTD EXHAUST FAN WITH CURB, SEE SCHEDULE
- ROOF MTD GRAVITY RELIEF OR INTAKE SEE SCHEDULE
- CEILING MOUNTED EXHAUST FAN
- INLINE FAN WITH VIBRATION ISOLATION
- WALL LOUVER/ INTAKE OR EXHAUST BY ARROW DIRECTION
- THERMOSTAT
- HUMIDISTAT
- DUCT MTD SMOKE DETECTOR
- TEMP SENSOR DUCT MTD
- HUMIDITY SENSOR DUCT MTD

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3911 NEWBERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. AA0002479 • 352-372-8424



S & S FOOD STORE NO. 28
41/441 SOUTH
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CRAIG SALLEY AND ASSOCIATES
EXETER, NEW HAMPSHIRE
10/2/03

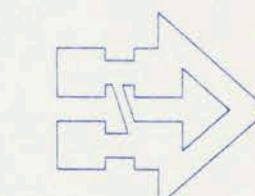
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M-1

OF
SHEETS 10

COORDINATE REGISTER/ GRILLE LAYOUTS
WITH REFLECTED CEILING PLAN SHEET A-7



MECHANICAL SPECIFICATIONS

It is the intent of these specifications to define the work and materials typically installed by a Mechanical Contractor. However, it is not intended to define a subcontract between the Mechanical Contractor and the General Contractor. The General Contractor is responsible for the entire project and any questions regarding scope of work shall be directed to the General Contractor.

B. Work shall include all labor, materials, fixtures, equipment, tools and service necessary for installation, testing and adjusting of all mechanical systems shall be furnished and installed in compliance with the Drawings, Specifications, and any Addenda thereto.

C. Drawings and Specifications shall be understood to cover, according to their intent and meaning, complete mechanical systems. Work shown and not specified, or work not shown and specified, shall be performed as though mentioned in both.

D. Minor items and accessories reasonably inferred as necessary for the complete and proper operation of any system shall be provided by contractor or subcontractor for such systems. Items that are not they are specifically called for.

E. Before submitting a bid, the Mechanical Contractor is to coordinate with the General Contractor to ascertain, in detail, the division of work, and the extent of performance other subs and the General Contractor.

F. All work shall be installed in strict accordance with Florida Building Codes 2001—Mechanical and all applicable rules, regulations and codes of local state and Federal Governments having lawful jurisdiction, and each contractor and subcontractor shall be responsible for obtaining all necessary permits.

G. Fees for permits, inspections, patent use, royalties, etc. shall be paid by the contractor.

H. All systems shall be tested for proper operation, rotation air supply, water supply, pressure, balance, vibration, and appropriate ratings as required by these specifications or manufacturers' recommendations.

I. All work shall be installed in accordance with the appropriate codes and satisfy the local inspector having jurisdiction.

J. In case of a conflict of the mechanical system, the contractor shall demonstrate to the Engineer that each item on that system is installed with proper covers, safeties, controls, etc., and that all are in proper working order.

K. All equipment shall be carefully maintained at the job site.

L. Actual conditions are to be put on the drawings in red on a daily basis so the drawings will continuously show locations and routings of piping, ducts, grilles, equipment, valves, and any equipment specified on the drawings or in the specifications.

M. Installed equipment shall be new and meet or exceed specification requirements.

N. All products shall be current model for which replacement parts are available.

O. Acceptable manufacturers are listed, additional manufacturers may request approval for their products in advance of award. Engineer may require supplemental information prior to accepting or rejecting the alternate.

N. All work shall be performed in compliance with OSHA regulations.

O. Job conditions shall be determined prior to bidding in the following manner:

- Site visit to determine:
- Existing conditions.
- How and where materials will be delivered and stored.
- Special problems encountered during construction.

2. Exclude all Contract Drawings and Specifications to determine:

- Type of construction to be used.
- How construction or work will affect the work of this Section.
- Nature and extent of work of other trades.

P. Installation:

- Contract Drawings show the arrangements and sizes of principal apparatus and devices to be provided under this Contract and connection thereto. These shall be followed as closely as actual building construction will permit.
- Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.
- No measurements shall be scaled from Drawings and used as definite dimensions for layout or fitting work in place.
- Layout of equipment, as indicated on the plans, shall be checked and exact location determined by dimension if equipment approved by the Architect.
- Consult the Drawings for all dimensions, locations of partitions, sizes of structural member, foundations, etc.
- Do not make final layouts until shop or equipment drawings are approved and job conditions verified.
- Mechanical reference symbols are given on the mechanical legend on the drawings.

Q. Rough-in:

- Contractor shall rough-in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or by Owner.

2. Method:

- Determine in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases provided during construction.
- Install all inserts for hangers and supports of mechanical work and provide all other general construction progresses.
- Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled.
- Sleeves shall be required at all points where piping passes through concrete wall, slabs or masonry walls; sleeves installed below grade or where subject to high water conditions shall be installed watertight.

R. Coordination:

- Work shall be coordinated between all Contractors, Subcontractors, installers, Suppliers, Trades, etc., to:
- Insure a neatly fitted installation.
- Determine the nature and extent of the work of others.
- Eliminate interferences.
- Maintain maximum headroom and clearances.
- Any interference which develops or is foreseen and cannot be resolved by the contractor or subcontractor shall be handled as follows:
- Caase installation of that portion of the work which is in conflict as no additional compensation will be allowed for any relocation, etc.
- Coordinate work of other portions of the work which are not in conflict.
- Notify the Architect immediately.
- Architect's decision shall be final as to any relocation, rerouting, removal, etc.
- No additional compensation will be allowed for removal, relocation, repairs or other required adjustments.
- Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job and equipment in clean first-class condition.
- Clear all rotating equipment, ducts, piping, etc., and leave them in a ready-to-use condition.

U. Where factory finish is provided on equipment, all marred or damaged surfaces shall be touched-up or repaired to original finish as specified.

V. Thoroughly clean all items of equipment, leaving them in first-class condition.

W. Make clean or wash if necessary air surfaces of all coils, fan housings, fan wheels, fan motors, air unit plenums, and all air filters.

X. All rotating equipment shall be installed with rotating equipment shall be bearing ends, covered to exclude dust and moisture; all stockpiled condult shall be placed on damage, and protected from weather, from entry of foreign materials.

BALANCING OF AIR SYSTEMS

- Balance and adjust each air distribution system shown on the Drawings.
- Perform work in accordance with procedures and standards described in SMACNA Balancing and Adjustment Manual.

PLASTIC PIPE AND FITTINGS

- Air Conditioning condensate drains
1. PVC — ASTM D-7178—60T
- a. Schedule 40.
- b. Type 1, Grade 1.
2. Joints
- a. Bonded joints using adhesive per manufacturer's recommendations
3. Fittings
- a. PVC — ASTM D-2665—69

PLIT SYSTEM HEAT PUMPS

- Packaged Rooftop heating and cooling units with reverse cycle and heat strip where specified.
- Acceptable Manufacturers
- Tare
- Carrier
- Lennox

C. Evaporator Section

- Airflow as indicated on drawings.
- Fan shall be direct — line, forward-curved, double inlet, statically and dynamically balanced.
- Fan motor shall be resiliently mounted and shall be easily removable for service.
- Fan motor shall be permanent — split-capacitor type with integral overload protection, high — efficiency, Florida Energy Code Minimum.
- Cooling coil shall have aluminum fins mechanically bonded to copper tubing. Coil shall be insulated, installed, and refrigerant metering devices.

D. Condensing Section

- Outdoor unit shall be designed for use with Refrigerant 22 and contain sufficient charge (92%) for complete system. Gross service valves with refrigerant line fittings and service ports shall be located on exterior of unit.
- Outdoor coil unit shall be constructed with aluminum fins mechanically bonded to non-ferrous tubing. Factory installed coil refrigerant metering device shall be mounted on outdoor unit and service valve. Metering device internal components shall be removable for cleaning or replacement.
- Outdoor unit fan shall be propeller type, direct driven, and arranged for vertical air discharge. Fan motor shall be belt driven, inherently protected and resiliently mounted.
- Compressor shall be of the welded—hermetic type with internal vibration isolation and thermal expansion valve designed to muffle operating sound. Compressor shall have both thermal and current — sensitive overload device. Compressor shall be equipped with a crank—case heater and have internal high—pressure protection.

- A. All exhaust fans mounted in the ceiling inside the building and ducted to the outside.
- B. Meet the specification for air delivery at static pressure as specified on the Equipment Schedule.
- C. Meet the noise criteria (if specified on Schedule).
- D. Be of the manufacture and model number specified in the Equipment Schedule or equal.
- E. Shall be UL listed.
- F. Acceptable Manufacturers
 - 1. Penn ventilator
 - 2. Cornea
 - 3. Greenheck
- G. General
 - 1. Acoustically insulated steel housing
 - 2. Baked enamel finish on housing
 - 3. Adjustable mounting brackets
 - 4. Automatic backdraft damper at the discharge duct
 - 5. Lifetime lubricated motor
 - 6. Terminal box on housing with cord, plug and receptacle inside the housing
 - 7. Fan motor and wheel shall be removable without removing entire fan housing.

DUCTWORK

A. All Supply and Return ductwork shall be fiberglass ductboard, minimum R6 with internal coating of anti-microbial, polymer equal to Owens Corning EnDura Gold

B. All general exhaust ductwork shall be low pressure sheet metal.

C. Fresh air duct from ERV shall be low pressure sheetmetal

1. External insulation with 2" fiberglass duct wrap.

E. Where construction methods for various items are not indicated on the Drawings or specified herein, all such work shall be fabricated and installed in strict accordance with the recommended methods, metal gauges, hanging procedures, access door and accessory installation, etc., as outlined, the latest edition of SMACNA'S Duct Manual and Sheet Metal Construction for Ventilating and Air Conditioning System.

1. Contractor shall make necessary repair and shall make duct system ready for a leakage test.
2. Test shall be performed by Test and Balance Contractor.
3. Leakage shall not exceed 1% leakage for high pressure duct and 5% for low pressure duct construction.

DUCT HANGERS AND SUPPORTS

A. All ductwork for air supply, return, fresh air or exhaust shall be supported by duct hangers, clamps, clips or supports.

B. Acceptable Manufacturers

Duct hangers may be a manufactured item or field fabricated as required.

C. Galvanized steel straps

1. Minimum 16 gauge and one inch wide

1. All ductwork shall be supported from structural building members, i.e. block, beams, columns, purlins, joists, etc.
2. Ductwork shall not be supported from ceiling tile or grids, conduit, mechanical equipment, piping or non-structural steel.
3. Ductwork hangers shall be attached to building steel by bolts, screws, clamps or welding.
4. Hanger Bands
 - a. Horizontal concealed ductwork up to 20 inches largest dimension shall be supported by one (1) inch x 16 gauge galvanized steel straps at a maximum spacing of 10 ft. and at each elbow or branch takeoff.
 - b. Bands and spacing shall be at a maximum spacing of 10 feet on horizontal duct and at each elbow or branch takeoff.
 - c. No hails shall be driven through any ductwork and into floor joists, trusses, etc.
5. Vertical ductwork, all sizes, shall be supported by bands bolted or screwed to studs, etc.
6. Hanger bands shall be bent over one (1) inch from end and turned up corners of rectangular duct.
7. Duct hanger bands shall be fastened with sheet metal screws at six (6) intervals up sides and into bottom.
8. Sheet metal screws shall be 3/4 inch so as not to penetrate duct liner completely.

VOLUME DAMPERS:

- A. All return air and fresh air dampers shall be parallel blade pivot dampers with motorized control where noted.
- B. All balancing dampers shall have manual control dampers with positive position locking.
- C. Acceptable Manufacturers:
 - 1. Prefco Manufacturing Co.
 - 2. Titus
 - 3. Ruskin
- D. Parallel Blade Pivot Dampers:
 - 1. Low leakage non-degradable
 - 2. Friction free metal to metal seals incorporated into the blade and frame shapes
 - 3. Galvanized steel frame, 16 gauge
 - 4. Galvanized steel blades, 22 gauge with double-wrapped center and edge forming
 - 5. Maximum leakage – 11 CFM per sq. ft. @ 1 inch S.P.
 - 6. The static pressure loss shall not exceed 0.7"
 - W.G. @ 2000 FPM and 50% modulation
- F. Model Number:
 - a. Equal to Prefco Model 5150

A. Flexible duct connections shall be aluminum "spin-in" fittings with locking quadrant dampers.

1. Fire dampers shall have only thermally actuated fusible links.

3. Titus
- C. Dampers – mounted vertically
 1. Dampers construction shall meet the requirements of NFPA 90A.
 2. Type B, low profile, low pressure loss.
 3. Blades stack shall only enter the air stream to 48”.
 4. Damper requires no extra height for duct installation, i.e., there shall be no “top cap.”
 5. Blades shall be 4–1/2 inch depth – roll formed 21 gauge galvanized steel.
 6. 6–8 inch wide piece roll-formed 21 gauge galvanized steel.
 7. Blades rotate, travel and seal on a single central frame track.
 8. Classified 1–1/2 hour rating, UL Listed.
 9. Fire dampers shall have thermal link.
10. Model:

D. Dampers - mounted horizontally in ceiling:

1. UL Listed ceiling damper
2. Round or square as required
3. 2 hour rated
4. Single or dual blade depending on duct size
5. Model Number
 - a. Prefco Model 5650, 5600, or 5660

1. Fusible link rated at 165 Degrees F. release temperature.

ADULT ACCESS PANELS AND TEST PLACES

- A.** Provide an access panel at each return air and/or fresh air damper which will allow for inspection and cleaning of dampers.
 - 1. Where return and fresh air dampers are located adjacent, one access door is sufficient, providing each damper is accessible.
- B.** Provide an access panel at each fire damper for resetting and maintenance of each fire and smoke damper.
- C.** Provide test holes for measurement of air flow, on each branch duct and main trunk line or plenum.
- D.** Acceptable Manufacturers
 - 1. Penn Ventilator Co.
 - 2. Ruskin

4. Access:
 - a. Insulated hinged duct access door
 - b. Standard gauge galvanized steel
 - c. Continuous piano hinge
 - d. Gasketed at door frame surface and at frame to duct surface
 - e. Positive acting cam latch handle
5. Doors shall be of sufficient size to allow access to both sides of dampers
6. If duct width is greater than 36 inches, provide access doors on each side of duct for access to entire dampers.
8. Exception:
 - a. Where access door must be installed in such a position that hinged opening is not possible, provide door that is completely removable.
 - b. Removable door shall have cam-locks on both sides
9. Model Numbers:
 - a. Hinged doors shall be equal to Penn Ventilator Model DAD
 - b. Non-hinged removable door shall be equal to Penn Ventilator Model DAD-RP.

1. Provide a capped access hole in each trunk line or branch duct for insertion of air-flow pitot for flow measurement.

DISPOSABLE FILTERS

A4. Provide 1" fiberglass with perforated metal back for AH-1, AH-2, AH-3.

B9. Provide 2" pleated for packaged heat pumps.

CONTROL SYSTEM

1. DESCRIPTION

A. GENERAL

1. Furnish and install all electrical controls and components for all mechanical systems as listed below.

B. Package Auto Pumps

1. Provide Heat - Cool - Off Fan-On-Auto, thermostat, electronic, fully programmable individual programmable each day with minimum of 4 functions per day and one set of auxiliary contacts. Thermostat shall be one stage cooling, two stage heating.

2. Thermostat shall be equal to Honeywell T-7300 Series.

PART 5 - SEQUENCE OF OPERATION

A. HP-1 THRU HP-2

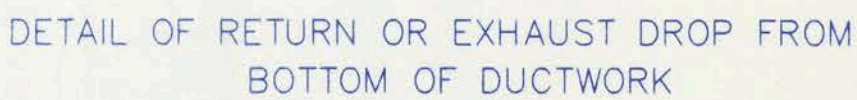
1. Occupied Mode--
 - a. Air Handler shall run continuously
 - b. Compressor shall cycle to maintain space temperature (heating or cooling)
 - c. Second Stage Heating shall cycle Heat Strip.
2. Unoccupied Mode--
 - a. Air Handler shall cycle with compressor
 - b. Compressor shall cycle to maintain space temperature (heating or cooling)

B. ERV

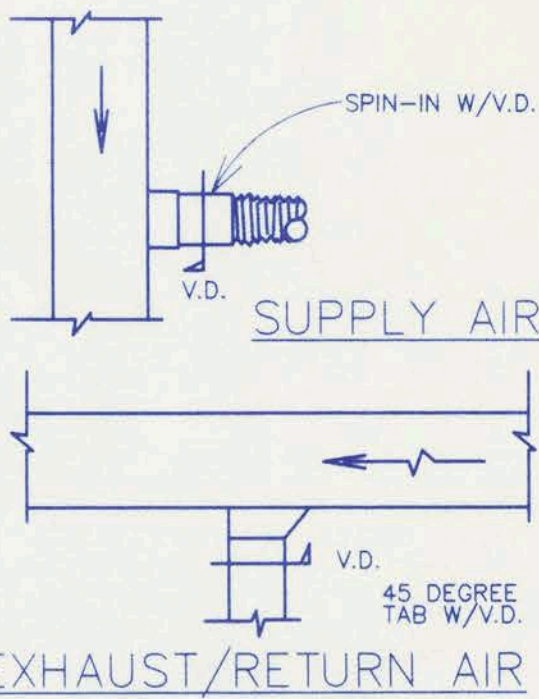
1. ERV Unit shall run continuously in the occupied mode, and shall be interlocked with HP-2 thermostat auxiliary contacts.
2. Provide a separate humidistat to shutdown the ERV and close motorized damper if indoor relative humidity exceeds 65%.

1. Firestat shall shut down all unit components including fans, compressors,

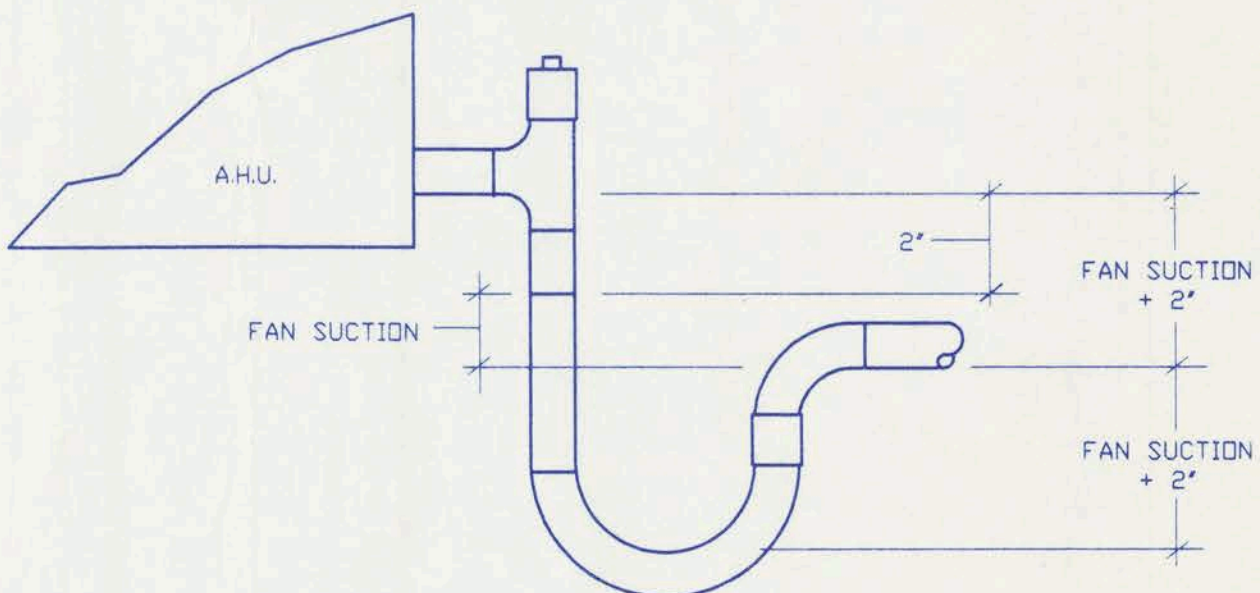
A. Contractor shall install duct smoke detectors to shut down all units with supply CFM in excess of 2000 CFM.



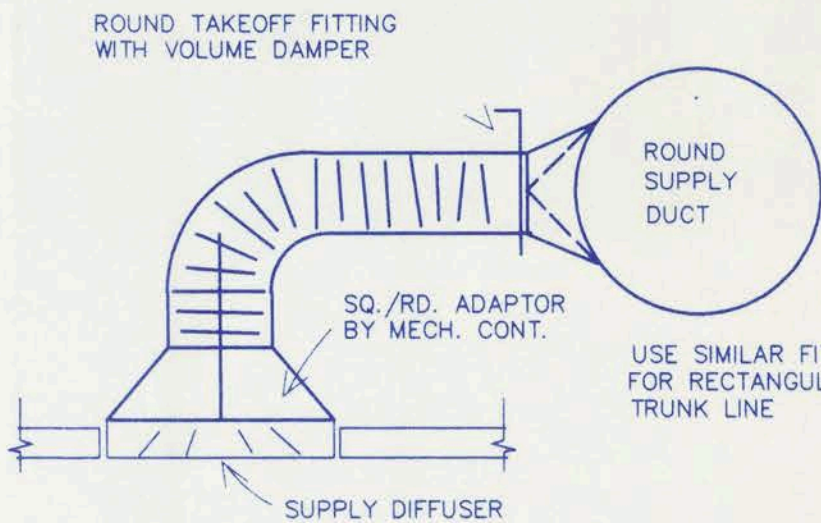
RET./ EXH. DROP DETAIL



AIR DUCT DETAILS



AHU CONDENSATE DRAIN DETAIL



FINAL BRANCH CONNECTION TO DIFFUSER

CONNECTION TO DIFFUSER

S & S FOOD STORE NO. 28
41/441 SOUTH
LAKE CITY, FLORIDA

COBURN & ASSOCIATES
FLORIDA LICENSED
ENGINEERS EB 0003687
P.O. BOX 577
HIGH SPAN, FLORIDA
32053-0577
PH 904-255-4246
FAX 904-255-4246
RICHARD E. COBURN PE
2013

DATE
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DRAWN
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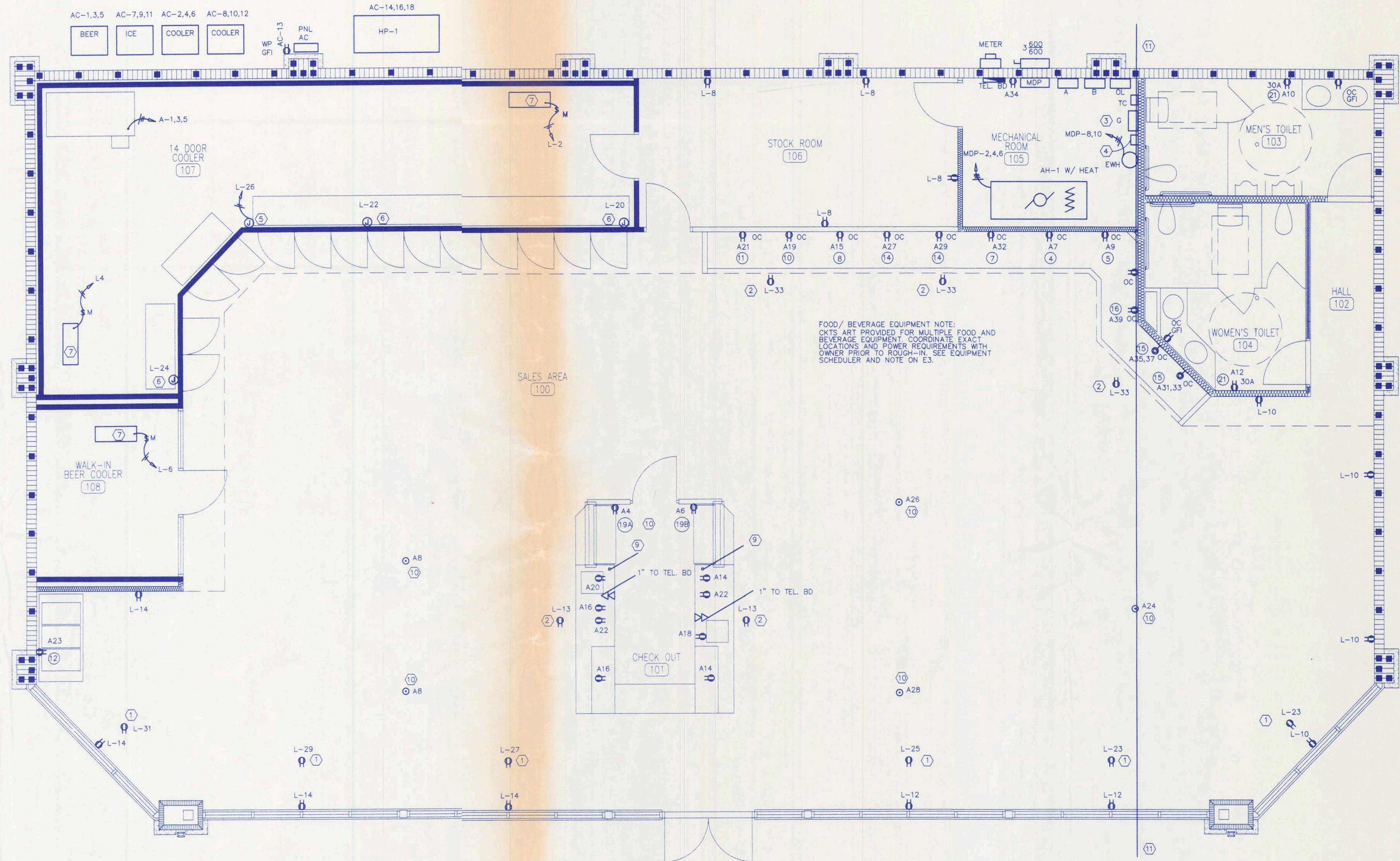
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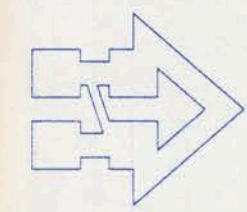
OF 10
SHEETS

ELECTRICAL LEGEND

	FLUORESCENT FIXTURE MULTITUBE-RECESSED OR SURFACE MTD. 24X48
	"a" = FIXTURE TYPE DESIGNATION, SEE SCHEDULE - TYPICAL ALL LIGHT SYMBOLS
	FLUORESCENT FIXTURE MULTITUBE-RECESSED OR SURFACE MTD. 24X48
	FLUORESCENT FIXTURE MULTITUBE-WALL OR CEILING MTD.
	FLUORESCENT FIXTURE MULTITUBE-WALL MTD.
	FLUORESCENT FIXTURE SINGLE TUBE-SURFACE MTD.
	FLUORESCENT FIXTURE SINGLE TUBE-WALL MTD.
	SURFACE MOUNTED FIXTURE PER SCHEDULE, "a" = FIXTURE TYPE
	RECESSED FIXTURE PER SCHEDULE, "a" = FIXTURE TYPE
	WALL MOUNTED FIXTURE PER SCHEDULE, "a" = FIXTURE TYPE
	EXIT LIGHT-DIRECTION ARROW(S) AS INDICATED-SURFACE OR WALL MTD.
	EMERGENCY BATTERY OPERATED LIGHT, SEE SCHEDULE y = FIXTURE TYPE
	TOGGLE SWITCH UP 48" UNLESS NOTED OTHERWISE
	TOGGLE SWITCH UP 48" UNLESS NOTED, 2 WAY, 3 WAY, 4 WAY
	TOGGLE SWITCH UP 48", P = PILOT/ K = KEY OPERATED
	TOGGLE SWITCH, MOTOR RATED WITH THERMAL PROTECTION
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE AS NOTED
	FLOOR OUTLET
	JUNCTION BOX
	THERMOSTAT OUTLET
	DATA OUTLET UP 12" UNLESS NOTED- EACH SYMBOL = 2 CAT5E CABLES AND TWO RJ45 JACKS IN SINGLE GANG BOX. >> = (4) CABLES AND 4 JACKS DOUBLE GANG BOX, >>> = (6) EACH ETC.
	TELEPHONE OUTLET UP 12" UNLESS NOTED- FLOOR OUTLET
	DISCONNECT, 3 NO. OF POLES, 30 FRAME SIZE, 15 FUSE, X = NO FUSE
	MAGNETIC MOTOR STARTER OR CONTACTOR, 2 = NEMA SIZE
	COMBINATION STARTER AND DISCONNECT
	ELECTRIC MOTOR-VOLTAGE, PHASE & SIZE AS SHOWN
	ELECTRICAL LIGHTING OR APPLIANCE PANEL BOARD
	ELECTRICAL DISTRIBUTION OR POWER PANEL BOARD
	TELEPHONE TERMINAL CABINET OR BOARD-SIZE AS NOTED
	SIGNAL OR SOUND CABINET OR BOARD-SIZE AS NOTED
	CONDUIT RUN CONCEALED IN WALL OR CEILING
	CONDUIT RUN UNDERFLOOR OR UNDERGROUND
	HOME RUN TO PANEL, LONG LINE = NEUTRAL OR GND, SHORT LINE(S) = CIRCUIT(S)
	ELECTRIC HEATER
	PHOTOCELL
	WEATHERPROOF
	GROUND FAULT INTERRUPTER
	MTD. UP 48" OR ABOVE COUNTERTOP BACKSPLASH
	FIRE ALARM PULL STATION MTD. UP 48"
	FIRE ALARM HORN SIGNALLING DEVICE MTD. UP 84"
	FIRE ALARM COMBINATION HORN-STROBE SIGNALLING DEVICE MTD. UP 84" X = STROBE CANDELLA POWER
	VISUAL STROBE SIGNALLING DEVICE MTD. UP 84" X = STROBE CANDELLA POWR
	HEAT DETECTOR-SURFACE OR WALL MTD.
	SMOKE DETECTOR-SURFACE OR WALL MTD.
	FLOW SWITCH/TAMPER SWITCH
	FIRE ALARM CONTROL PANEL
	DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM PANEL
	FIRE SYSTEM ANNUNCIATOR PANEL
	FAN SHUTDOWN RELAY
	REMOTE TEST STATION WITH TEST SWITCH, LED AND LOCAL HORN
	T.V. OUTLET
	SPEAKER OUTLET
	FIXTURE WITH BATTERY PACK AND INVERTER
	NIGHT LIGHT
	INTERCOM CALL-IN SWITCH 48" AFF
	MOTION SENSOR LIGHT SWITCH
	NURSE CALL



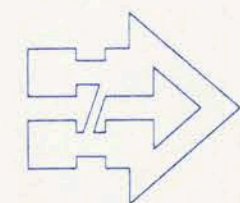
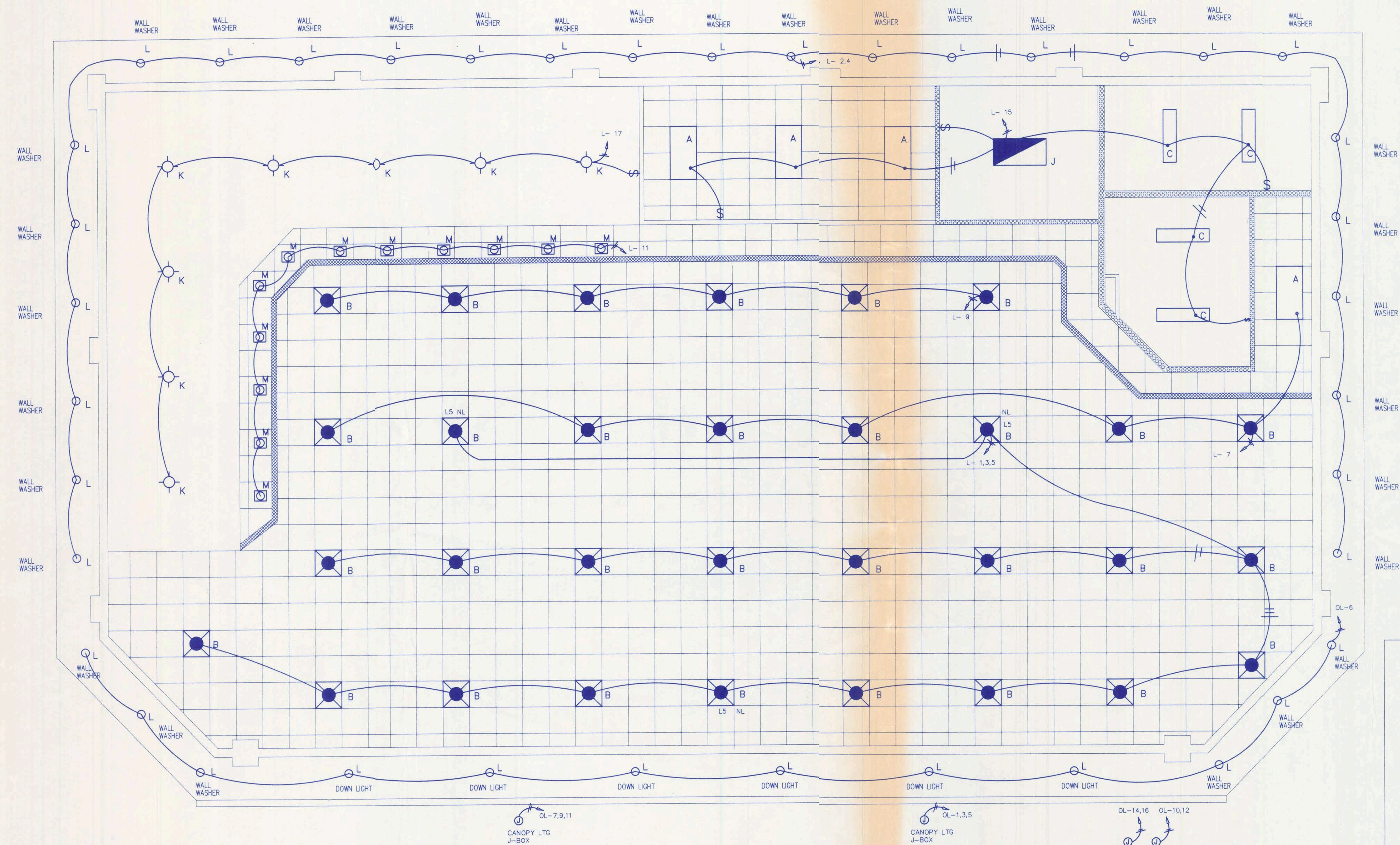
ELECTRICAL POWER PLAN
1/4" = 1'-0"



SPECIFIC DRAWING NOTES:

- DUPLEX RECEPTACLES MOUNTED IN CEILING 12" FROM WALL FOR DISPLAY & WINDOW SIGNS.
- DUPLEX RECEPTACLE MOUNTED IN CEILING FOR STORE SIGNS.
- PNL "G" WITH WIREWAY BELOW AND SURGE PANEL ADJACENT.
- SURGE PANEL.
- J-BOX FOR COOLER DISPLAY LIGHTS - VERIFY W/ EQUIPMENT.
- J-BOX FOR COOLER DOOR HEATERS - VERIFY W/ EQUIPMENT.
- COOLER FANS VERIFY VOLTAGE AND AND LOCATION.
- CONDUIT & WIRE TO GAS OR DIESEL DISPENSERS & PUMPS VERIFY SIZE AND NUMBER WITH PETROLEUM EQUIPMENT SUPPLIER DRAWINGS.
- 2" CONDUIT TO GAS DISPENSER EQUIPMENT, VERIFY SIZE W/ PETROLEUM EQUIPMENT SUPPLIER
- FLOOR RECEPTACLE AT THE END OF GONDOLA, VERIFY EXACT LOCATION WITH FIXTURING PLAN.
- RIGID GALVANIZED CONDUIT W/BITUMEN COATING TO FUEL ISLANDS FOR MPD AND DATA, VERIFY SIZE AND NUMBER WITH PETROLEUM EQUIPMENT SUPPLIER FROM GAS EQUIPMENT AND/OR PANEL G. PROVIDE SEAL OFF FITTINGS ON EACH END.





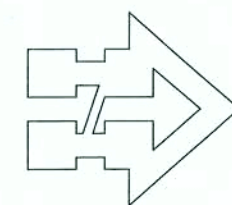
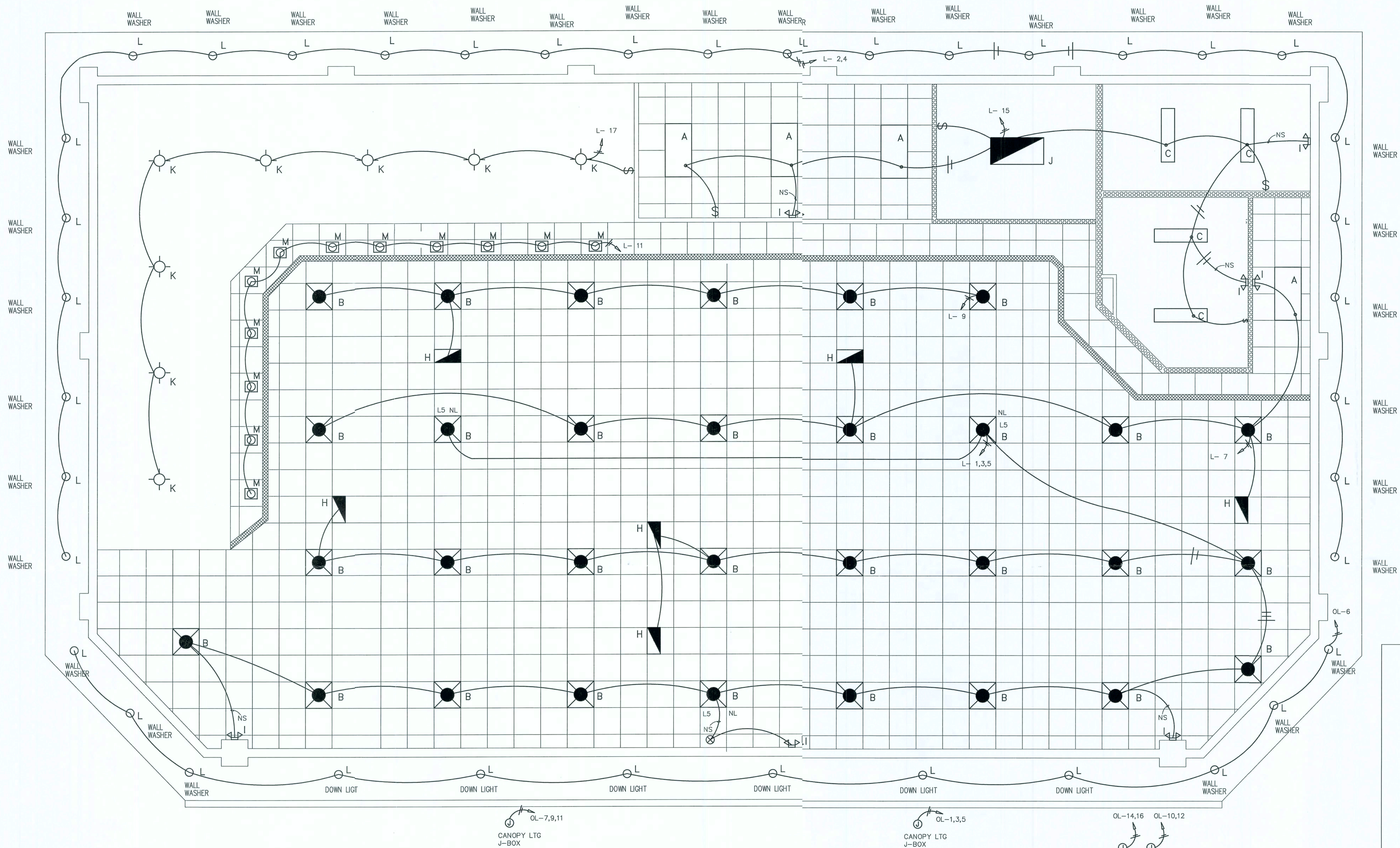
ELECTRICAL LIGHTING PLAN

1/4" = 1'-0"

SYMBOLS LEGENDS LIGHTING

- A LITHONIA GT 2 X 4 FLUOR.
- B LITHONIA GSR 2 X 2 METAL HALIDE 175 W
- C LITHONIA L3 - 24 FLUOR. 1 X 4 2 LAMP
- D 8' TWO LAMP STRIP FLUOR.
- E EXIT LIGHT W/ EMERG. BATT. BACK-UP
- F 4' TWO LAMP STRIP FLUOR.
- G LITHONIA GSR 2X2 W/175 W NIGHT LIGHTS
- H LITHONIA L3 - 24 W/ EMERG. BATT. BACK-UP 1 X 4 LAMP
- I WALL MTD. DUAL LAMP EMERG. BATT. LIGHT
- J LITHONIA GT 2 X 4 FLUOR. W/ EMERG. BATT. BACK-UP
- K 100W. INCANDESCENT SURFACE MTD. W/GLASS GLOBE AND GUARD.
- L 75W. SEMI- RECESSED CAN FIXTURE DOWNLIGHT OR WALL WASHER- SEE PLAN
- M RECESSED PL 26 WATT





ELECTRICAL LIGHTING PLAN

1/4" = 1'-0"

SYMBOLS LEGENDS LIGHTING

- A LITHONIA GT 2 X 4 FLUOR.
- B LITHONIA GSR 2 X 2 METAL HALIDE 175 W
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- L 75W. SEMI- RECESSED CAN FIXTURE DOWNLIGHT OR WALL WASHER- SEE PLAN
- M RECESSED PL 26 WATT

