

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

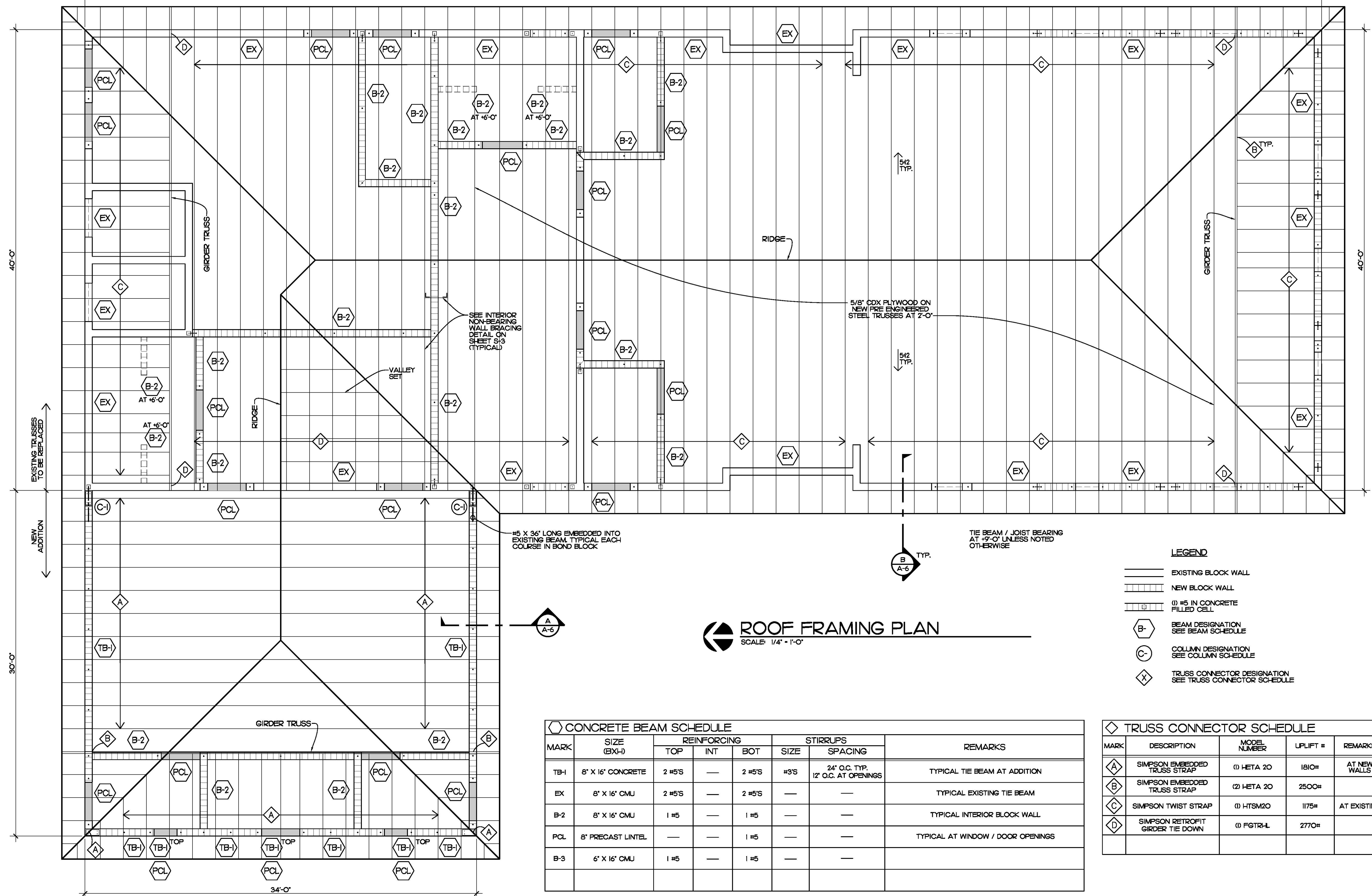
- FOUNDATION NOTES:**
- 1) ALL NEW SLABS SHOULD BE A MINIMUM OF 4" THICK CONCRETE W/ 5#S - MAXIMUM 18" WALK.
 - 2) PROVIDE 6" MIN. VAPOR BARRIER UNDER ALL NEW CONCRETE SLABS ON GRADE AND OVER FOOTING MATERIAL AND PRESSURE WASH TO REMOVE NEW TOPPING SLABS. SLOPE SLABS TO DRAINS TYPICAL.
 - 3) 1/8" WIDE X 1" DEEP SAWN JOINTS SHALL BE MADE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISLOOSED BY THE SAW BLADE.
 - 4) 1/2" ISOLATION JOINT, FILL W/ PRE FORMED RUBBER JOINT FILLER.
 - 5) 1/2" VERTICAL JOINT, SEE DETAIL.
- a. CONCRETE SLAB OVERPOUR OVER EXISTING FLOOR SLAB.
b. CUT IN NEW FOOTINGS FOR NEW INTERIOR BLOCK WALLS.
c. SAWCUT AND REPAIR EXISTING SLAB AS REQUIRED FOR NEW PLUMBING LINES AND LOCATIONS.
d. EXISTING SLOPES AND DRAINS BELOW ARE TO BE ABANDONED.

FOOTING SCHEDULE		
MARK	TYPE	SIZE
F1	MONOLITHIC	2'-0" W. X 1'-8" DP.
TE2	THICKENED SLAB	2'-0" W. X 1'-0" DP.
TE3	THICKENED SLAB EDGE	8" W. X 8" DP.

REINFORCING	
(3)	#5S CONTINUOUS, #5S TRANSVERSE AT 24" O.C.
(3)	#5S CONTINUOUS, #5S TRANSVERSE AT 24" O.C.
(1)	#5 CONTINUOUS

SHEET NO. S-1	DATE: 14 AUG. 2018	BY: JNR	CHK'D: JNR	PROJECT: SRHS LOCKER ROOM REMODEL	FOR: SCHOOL BOARD OF INDIAN RIVER COUNTY 6500 57TH STREET VERO BEACH FL 32967
COMD. NO. 04018/18		150CT18		REVISED PER BLDG DEPT COMMENTS	
14 AUG. 2018		30CT18		REVISED PER BLDG DEPT COMMENTS	
JNR		JNR		NO. DATE REVISIONS	

	<p>PROJECT: SRHS LOCKER ROOM REMODEL</p> <p>FOR: SCHOOL BOARD OF INDIAN RIVER COUNTY 6500 57TH STREET VERO BEACH FL 32967</p>	<p>SEAL:</p>
<p>EDLUND · DRITENBAS · BINKLEY ARCHITECTS AND ASSOCIATES, P.A. AR-AA C000886 65 ROYAL PALM POINTE, SUITE "D" VERO BEACH, FLORIDA 32960 PHONE: (772) 569-4320</p>		



SEE INTERIOR NON-BEARING WALL BRACING DETAIL ON SHEET S-3 (TYPICAL)

5/8" CDX PLYWOOD ON NEW PRE ENGINEERED STEEL TRUSSES AT 2'-0"

#5 X 36" LONG EMBEDDED INTO EXISTING BEAM. TYPICAL EACH COURSE IN BOND BLOCK

TIE BEAM / JOIST BEARING AT 4'-0" UNLESS NOTED OTHERWISE

ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

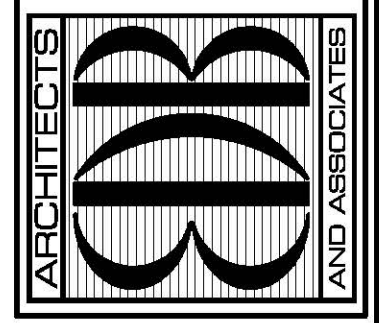
- LEGEND**
- EXISTING BLOCK WALL
 - ▬ NEW BLOCK WALL
 - ▬ (I) #5 IN CONCRETE FILLED CELL
 - B- BEAM DESIGNATION SEE BEAM SCHEDULE
 - C- COLUMN DESIGNATION SEE COLUMN SCHEDULE
 - X TRUSS CONNECTOR DESIGNATION SEE TRUSS CONNECTOR SCHEDULE

CONCRETE BEAM SCHEDULE							
MARK	SIZE (BX-I)	REINFORCING			STIRRUPS		REMARKS
		TOP	INT	BOT	SIZE	SPACING	
TB-1	8' X 16' CONCRETE	2 #5'S	—	2 #5'S	#3'S	24' O.C. TYP. 12' O.C. AT OPENINGS	TYPICAL TIE BEAM AT ADDITION
EX	8' X 16' CMU	2 #5'S	—	2 #5'S	—	—	TYPICAL EXISTING TIE BEAM
B-2	8' X 16' CMU	1 #5	—	1 #5	—	—	TYPICAL INTERIOR BLOCK WALL
PCL	8' PRECAST LINTEL	—	—	1 #5	—	—	TYPICAL AT WINDOW / DOOR OPENINGS
B-3	6' X 16' CMU	1 #5	—	1 #5	—	—	—

TRUSS CONNECTOR SCHEDULE				
MARK	DESCRIPTION	MODEL NUMBER	UPLIFT #	REMARKS
A	SIMPSON EMBEDDED TRUSS STRAP	(1) HETA 20	1810#	AT NEW WALLS
B	SIMPSON EMBEDDED TRUSS STRAP	(2) HETA 20	2500#	—
C	SIMPSON TWIST STRAP	(1) HTSM20	1175#	AT EXISTING
D	SIMPSON RETROFIT GIRDER TIE DOWN	(1) FGTR-L	2770#	—

COLUMN SCHEDULE			
MARK	SIZE	VERTICAL REINFORCING	COLUMN TIES
C-1	8' W. X 16' LG.	(4) #5'S VERTICAL	#3 TIES AT 8' O.C.

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SEAL:

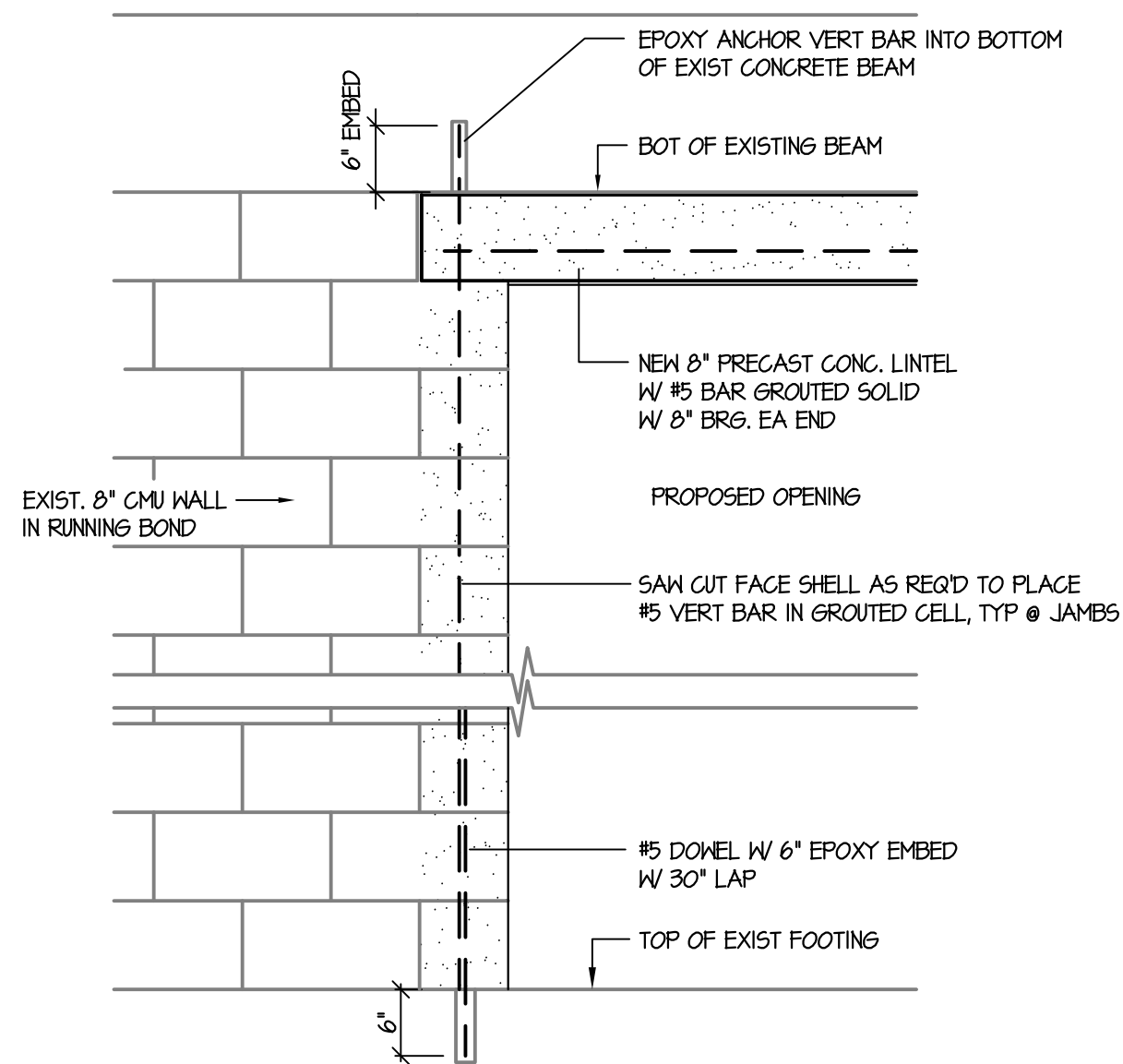
PROJECT: SRHS LOCKER ROOM REMODEL
FOR: SCHOOL BOARD OF INDIAN RIVER COUNTY
6500 57th STREET
VERO BEACH FL 32967

NO.	DATE	REVISIONS

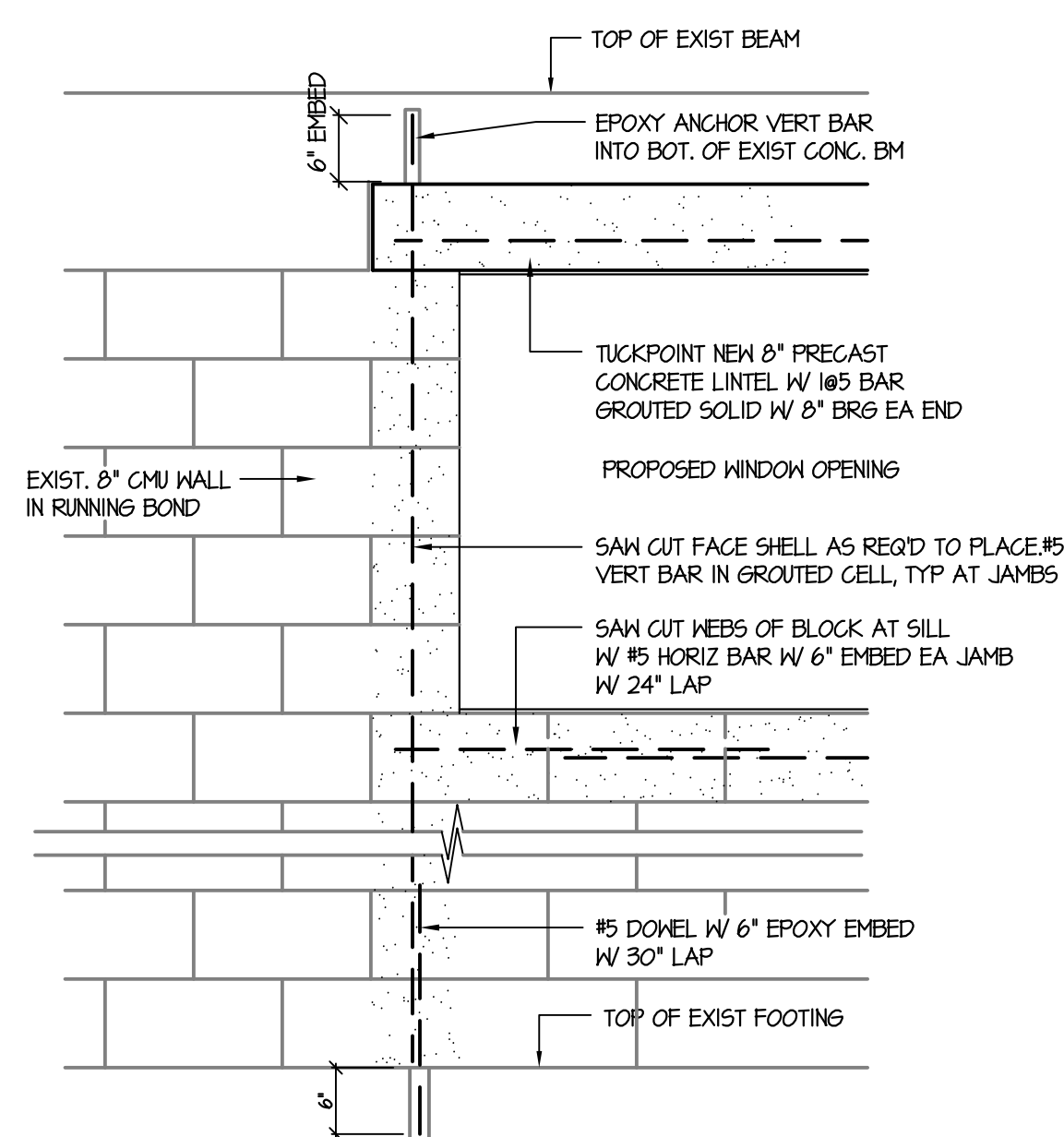
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COMM. NO: 04016VB
DATE: 14 AUG 2018
BY: JNR
CHK'D: JFB

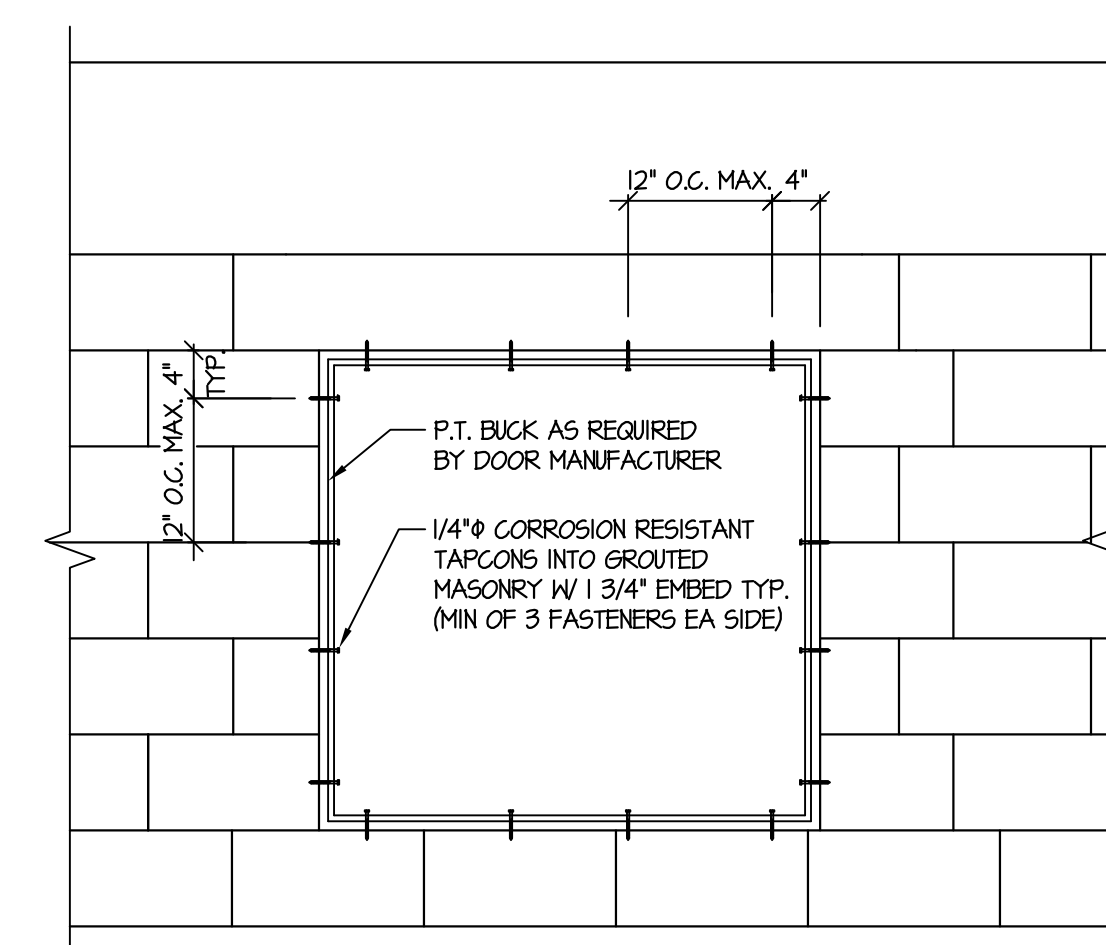
SHEET NO.
S-2
OF THREE



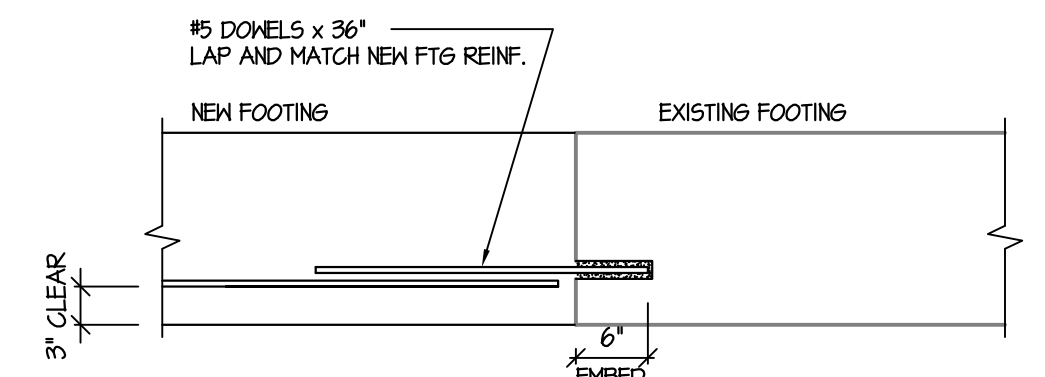
NEW DOOR OPN'G IN EXISTING WALL
SCALE: 3/4" = 1'-0"



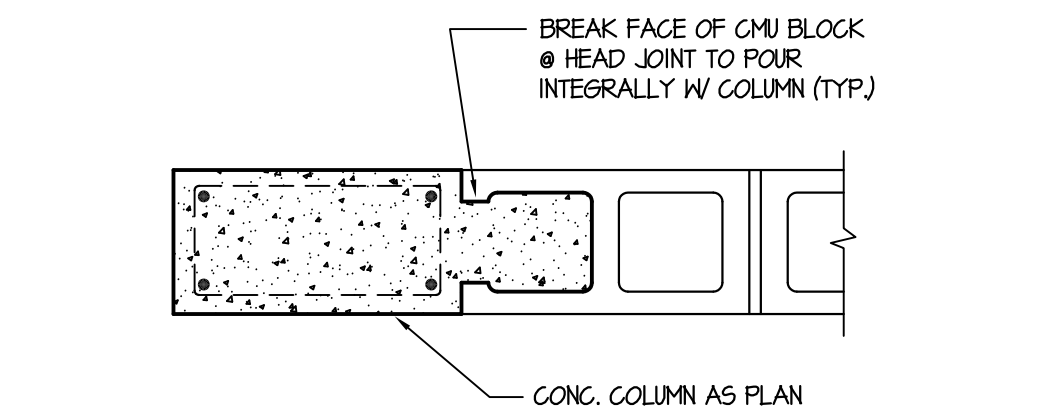
NEW WINDOW OPN'G IN EXIST MASONRY WALL
SCALE: 3/4" = 1'-0"



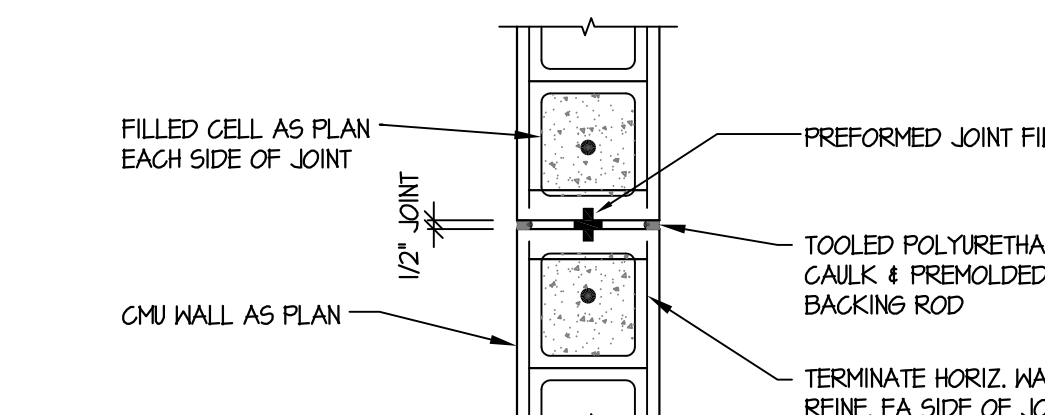
WINDOW/DOOR ATTACHMENT DETAIL (MASONRY)
N.T.S.
NOTES:
1. ALL WINDOW & DOOR PERIMETERS SHALL BE WATER-TIGHT. PROVIDE AN APPLICABLE APPROVED WATERPROOF SEALANT, (1) COAT BEFORE INSTALLING BUCKS & (2) COAT AFTER BRG INSTALLATION.



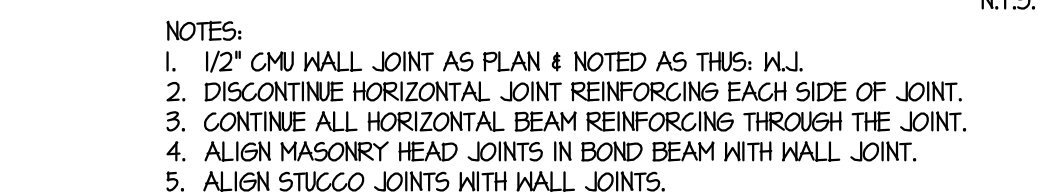
FOOTING EPOXY DOWEL DETAIL
N.T.S.



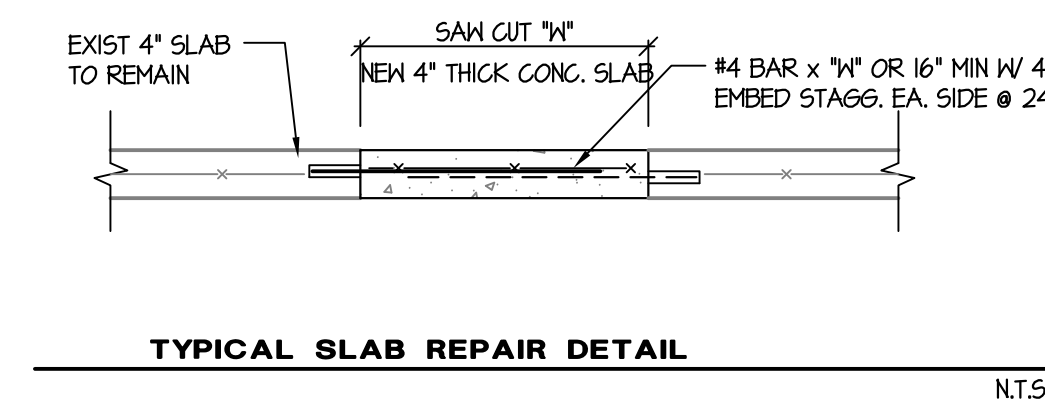
POURED COL. TO CMU CONNECTION
N.T.S.



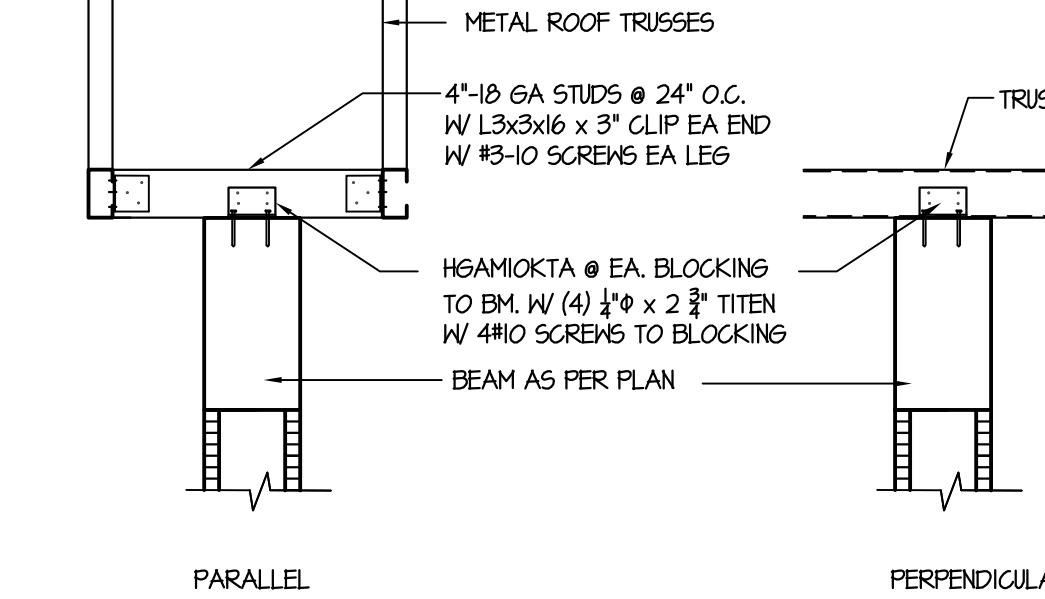
TYPICAL CMU WALL JOINT DETAIL
N.T.S.



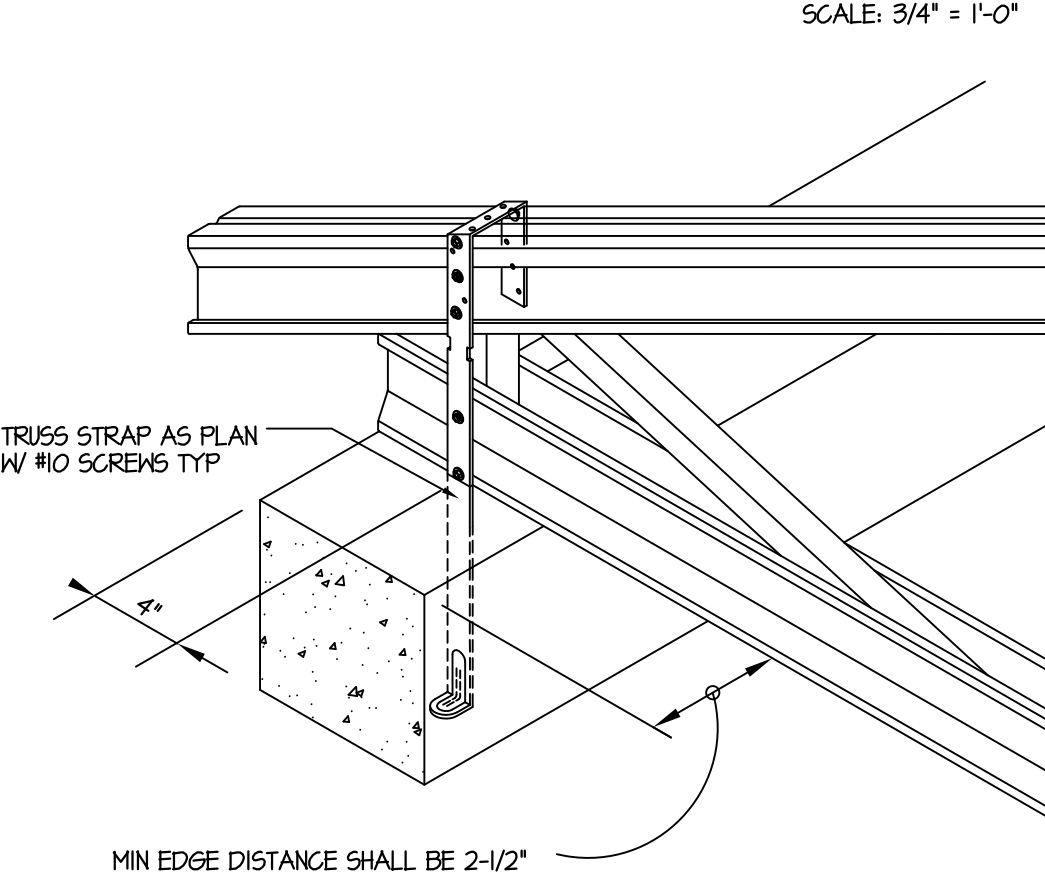
TYPICAL SLAB REPAIR DETAIL
N.T.S.



TYPICAL INTERIOR NON-BRG WALL BRACING
SCALE: 3/4" = 1'-0"



TYPICAL EMBEDDED STRAP AT NEW BM
N.T.S.



TYPICAL RETROFIT STRAP AT EXIST. BM
N.T.S.

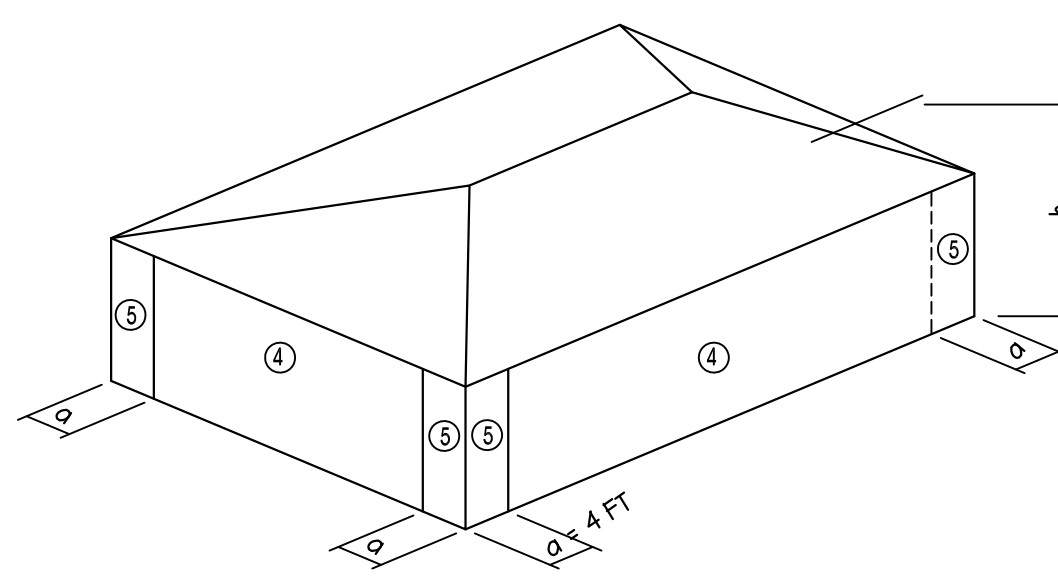
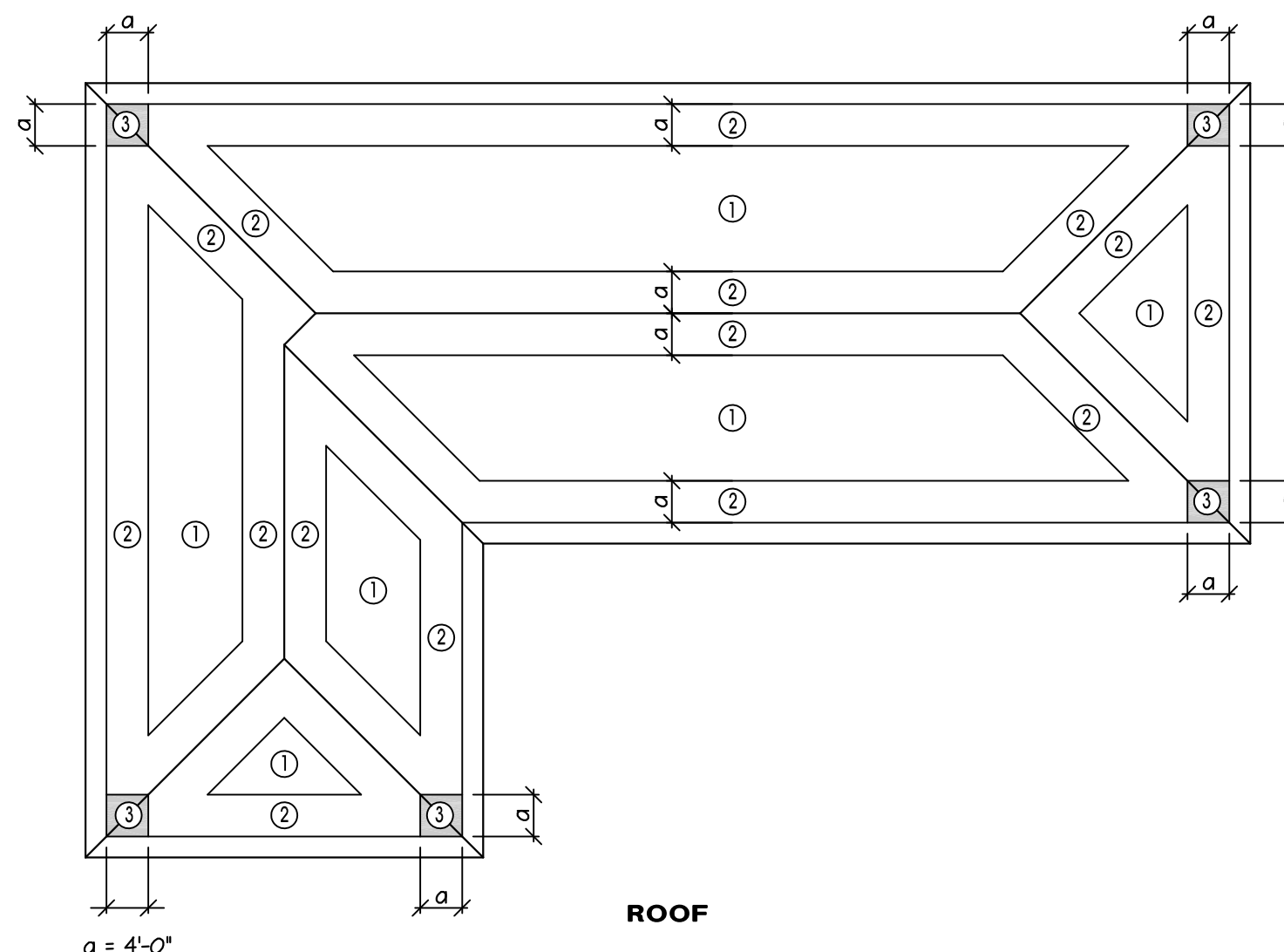
DESIGN CRITERIA
FLORIDA BUILDING CODE, 6th EDITION - BUILDING
FLORIDA BUILDING CODE, 6th EDITION - EXISTING

ROOF LOADS
DEAD 25 PSF
LIVE 20 PSF

WIND LOADS
DESIGN CRITERIA PER ASCE 7
ULTIMATE WIND SPEED REGION V(I)..... 160 MPH
NOMINAL WIND SPEED REGION, V(wind)..... 124 MPH
WIND BORNE DEBRIS REGION
ENCLOSURE STRUCTURE
BUILDING HEIGHT < 15 FT
ROOF PITCH 5/12
RISK CATEGORY II
INTERNAL PRESSURE COEFF. ± 0.18
EXPOSURE HEIGHT & EXPOSURE COEFF. C
..... 121

ZONE	EFFECTIVE AREA (SQ. FT)							
	0 < 10	11 < 20	21 < 50	51 < 100	101 < 200	201 < 500	501 < 1000	1000 < 1500
1	+19	-31	+18	-30	+15	-24	+14	-28
2	+19	-53	+18	-44	+15	-43	+14	-34
3	+19	-74	+18	-74	+15	-61	+14	-62
4	+34	-36	+32	-35	+30	-33	+24	-31
5	+34	-45	+32	-42	+30	-38	+24	-35
4	-36	-35	-33	-31	-30	-33	-31	-31
5	-45	-42	-38	-35	-30	-33	-31	-35

END ZONE 5 IS WITHIN A DISTANCE OF (a) = 4.0 FT FROM BUILDING CORNERS.



COMPONENT AND CLADDING ZONES

NOTES:
1. PRESSURES ARE IN ALLOWABLE STRESS DESIGN (ASD) FOR WALLS, WINDOWS, DOORS & ROOFING AND ALL OTHER EXTERIOR COMPONENTS AND CLADDING.
2. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
3. NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING SELF WEIGHT OF MATERIAL.
4. END ZONE 'a' = 4 FEET.

SCOPE OF WORK

1. SCOPE OF WORK IS LIMITED TO THE MODIFICATION & ADDITION TO THE EXISTING LOCKER ROOM BUILDING.

CLASSIFICATION OF WORK

1. THE WORK IS CLASSIFIED AS A LEVEL III ALTERATION BASED ON THE FBC 6TH ADDITION - EXISTING BUILDINGS
2. THE WORK IS ALSO CLASSIFIED AS SUBSTANTIAL STRUCTURAL ALTERATION BASED ON SECTION 907.4.2.
3. BASED ON OUR EVALUATION AND ANALYSIS THE ALTERED STRUCTURE, IF CONSTRUCTED AS INDICATED IN THESE DOCUMENTS COMPLIES WITH THE WIND DESIGN CRITERIA AS SPECIFIED IN THE FBC 6TH EDITION.

STRUCTURAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
2. ALL CONSTRUCTION SHALL BE BRACED AND SHORED BY THE CONTRACTOR AS REQUIRED TO SAFELY PERFORM THE WORK.
3. ALL WINDOWS, DOORS AND HARDWARE MUST BE DESIGNED AND CERTIFIED TO WITHSTAND THE DESIGN WIND PRESSURES AS NOTED IN THIS DOCUMENT & SHALL BE IMPACT RESISTANT OR PROTECTED WITH IMPACT RESISTANT COVERING MATERIAL AS REQUIRED BY THE FLORIDA BUILDING CODE.
4. THE MINIMUM STRUCTURAL SUBMITTALS SHALL BE AS PER SPECS AND AS FOLLOWS:
a. CONCRETE MIX DESIGNS
b. MASONRY & ACCESSORIES
c. REINFORCEMENT
d. PRE-ENGINEERED METAL ROOF TRUSSES - SIGNED & SEALED
e. LIGHT GAGE METAL FRAMING - SIGNED & SEALED

FOUNDATION

1. FOUNDATIONS ARE DESIGNED BASED ON RECOMMENDATIONS FROM THE ORIGINAL DESIGN DOCUMENTS BASED ON A MINIMUM OF 2,000 PSF ALLOWABLE BEARING PRESSURE.
2. CONTRACTOR SHALL VERIFY THAT THE MINIMUM COMPACTION OF 95% OF ITS MODIFIED PROCTOR ACCORDANCE WITH ASTM D1557 IS OBTAINED PRIOR TO FOOTING PLACEMENT.
3. FOOTINGS SHALL BE PLACED ON COMPACTED SOIL FREE OF ORGANIC DEBRIS.

CONCRETE

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH A.C.I. 301 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' LATEST EDITION AND A.C.I. 308 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
2. CONCRETE STRENGTH SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
FOUNDATIONS & SLAB ON GRADE 3000 PSI 3/4" MAX. AGGR. SLUMP 5" ± 1" MAX W/C = 0.5
BEAMS & COLUMNS 3000 PSI 3/4" AGGR. SLUMP 5" ± 1" MAX W/C = 0.5
MASONRY GROUT 3000 PSI N/A SLUMP 4" ± 1" MAX W/C = N/A
3. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60.
4. WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A185 AND SHALL BE ADEQUATELY SUPPORTED AT 3'-0" O.C. EACH WAY.
5. THE MINIMUM CONCRETE COVERAGES SHALL BE AS FOLLOWS:
CAST AGAINST EARTH 3 INS
EXPOSED TO WEATHER 1 1/2 INS
6. PROVIDE 90 DEGREE LAP SPLICES AT ALL INTERSECTIONS.
7. REINFORCING SHALL BE LAPPED SPLICED AND TIED WITH THE FOLLOWING MINIMUM:
#4 24 INS
#5 30 INS
#6 36 INS
8. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM C39. A MINIMUM OF (5) TEST CYLINDERS SHALL BE TAKEN FOR EACH 100 CU YDS OF POUR, WITH ADDITIONAL SETS FOR EVERY 50 CU YDS OF POUR.
CYLINDERS SHALL BE TESTED AS FOLLOWS:
1 @ 3 DAYS
2 @ 28 DAYS
1 @ 56 DAYS (IF THE MINIMUM STRENGTH IS NOT MET IN 28 DAYS)
9. CONTRACTOR SHALL PROVIDE SAW CUTS IN SLABS AT A MAXIMUM SPACING OF 20 FT ON CENTER EACH WAY OR 400 SQ FT. AND AT ALL RE-ENTRANT CORNERS. SAW CUTS SHALL BE 1/4 THE SLAB DEPTH AND SHALL BE PERFORMED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISLOOBYED BY THE SAW BLADE. THIS IS AN EFFORT TO CONTROL THE SHRINKAGE STRESSES AN INHERENT PROPERTY OF CONCRETE WHICH SOMETIMES RESULTS IN CRACKS, WHICH IS NOT UNCOMMON.

MASONRY

1. CONCRETE MASONRY WORK SHALL BE IN ACCORDANCE WITH ACI 530/ASCE 6/TMS 602, SPECIFICATION FOR CONCRETE MASONRY STRUCTURES AND ACI 530/ASCE 5/TMS 402, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
2. CONCRETE MASONRY UNITS SHALL BE IN CONFORMANCE WITH ASTM C90, GRADE N, TYPE II. MASONRY UNITS SHALL BE TESTED IN ACCORDANCE WITH ASTM C140 AND SHALL HAVE A MINIMUM Fm = 1900 PSI.
3. GROUT SHALL BE IN CONFORMANCE WITH ASTM C416, COARSE TYPE SLUMP 4" TO 11".
4. MORTAR SHALL BE IN ACCORDANCE WITH ASTM C270, TYPE S.
5. PROVIDE CLEANOUTS FOR ALL GROUTED CONSTRUCTION AND LIMIT MORTAR PROTRUSIONS TO 1/2" MAXIMUM IN GROUTED CELLS.
6. ALL MASONRY WALLS SHALL BE CONSTRUCTED IN RUNNING BOND WITH 1 GA. LADDER TYPE JOINT REINFORCING SPACED 16" O.C. VERTICALLY. LAP AT ALL CORNERS AND 3" MINIMUM.
7. EXPOSED MASONRY WALLS SHALL UTILIZE FINISHED CMU WITH TOOLED JOINTS. ALL HEAD AND BED JOINTS SHALL BE UNIFORM IN WIDTH.

COLD FORMED METAL FRAMING

1. ALL MEMBERS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH (A.I.S.I.) LATEST EDITION 'SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS'.
2. ALL MATERIAL SHALL BE THE TYPE, SIZE, GAUGE AND SPACING AS SPECIFIED ON PLANS.
3. STRUCTURAL PROPERTIES OF STUDS SHALL BE IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) 'SPECIFICATION FOR DESIGN OF COLD FORMED STRUCTURAL MEMBERS'.
4. METAL FRAMING COMPONENTS TO BE OF STRUCTURAL QUALITY STEEL SHEET WITH A MINIMUM YIELD OF 33,000 PSI OR 40,000 PSI; ASTM A 446, A 570, OR A611, WITH A GALVANIZED FINISH COMPLYING WITH ASTM A525 FOR MINIMUM 660 COATING.
5. CONCRETE THREADED FASTENERS SHALL BE CORROSION RESISTANT AND INSTALLED AS PER MANF. SPECIFICATIONS.
6. SCREWS FOR METAL FRAMING CONNECTORS SHALL BE #10 X 3/4" CORROSION RESISTANT HEX HEAD SELF DRILLING AND SELF TAPPING, CADMIUM PLATED TYPICAL UNO. OR OF OTHER SIZE AND TYPE INDICATED ON DRAWINGS. PROVIDE A MIN. OF (3) SCREWS EA CONNECTION.
7. ALL FRAMING SHALL BE PLUMBED AND SECURELY FASTENED TO FLANGES OF ALL UPPER AND LOWER TRACKS WHERE APPLICABLE.
8. VERTICAL, HANGERS, DIAGONAL AND HORIZONTAL BRACING SHALL BE PROVIDED AS REQUIRED TO KEEP ALL MEMBERS PLUMB AND STRAIGHT.
9. SEANT SIGNED AND SEALED SHOP DRAWINGS.

PRE-ENGINEERED LIGHT GAGE STEEL TRUSSES

1. PRE-ENGINEERED ROOF STEEL TRUSSES SHALL BE DESIGNED, MANUFACTURED AND ERECTED TO SUPPORT ALL LOADS SPECIFIED IN PLAN.
2. STEEL TRUSS DESIGNER / MANUF. SHALL PROVIDE ALL VALLEY, HIP, RIDGE, FASCIA AND MISCELLANEOUS ATTACHMENT PLATES WITH A MINIMUM THICKNESS OF 16 GAGE AS REQUIRED FOR THE ATTACHMENT OF THE PLYWOOD ROOF SHEATHING.
3. STEEL TRUSS DESIGNER / MANUF. SHALL DESIGN AND FURNISH TRUSS TO TRUSS AND TRUSS TO STRUCTURE ATTACHMENT CONNECTIONS TO RESIST ALL LATERAL AND UPLIFT LOADS AS DESIGNED BY THE SPECIALTY ENGINEER.
4. THE CONNECTIONS SHOWN IN PLAN ARE GENERIC MINIMUM CONNECTIONS REQUIRED AND THE TRUSS MANUFACTURER / DESIGNER HAVING PROPRIETARY MATERIALS SHALL DESIGN AND SPECIFY OPTIONAL CONNECTIONS AS SPECIFIED BY THE SPECIALTY ENGINEER.
5. SUBMIT STEEL TRUSS SHOP DRAWINGS SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE TRUSS LAYOUT, DESIGN LOADS, TRUSS REACTIONS, CONNECTIONS AND ALL OTHER INFORMATION AS REQUIRED FOR PROPER TRUSS INSTALLATION. DESIGN OF ROOF TRUSSES SHALL INCLUDE THE UPLIFT EFFECTS OF THE DESIGN WIND LOADS BASED ON ASCE 7.

TIMBER

1. ROOF PLYWOOD SHALL BE A MIN. OF 5/8" CDX SPAN RATED STRUCTURAL SHEATHING, INSTALLED PERPENDICULAR TO ROOF FRAMING WITH #10 SELF DRILLING SELF TAPPING SCREWS AT 4" O.C AT EDGES AND 8" O.C. IN THE FIELD. PRE-ENGINEERED METAL TRUSS MANUFACTURER TO PROVIDE MISCELLANEOUS SUPPORT PLATES AT HIPS, RIDGES AND VALLEYS.
2. CEILING SHEATHING SHALL BE A MIN. OF 5/8" CDX PLYWOOD SHEATHING INSTALLED PERPENDICULAR TO FRAMING WITH #10 SELF TAPPING SELF DRILLING SCREWS AT 6" O.C AT EDGES AND 12" O.C IN FIELD.
3. ALL NAILS AND METAL HARDWARE EXPOSED TO THE WEATHER SHALL BE STAINLESS STEEL. ALL NAILS SHALL BE COMMON WIRE NAILS. SPACE NAILS IN STRAPS SO AS NOT TO SPLIT WOOD.
4. THE MINIMUM LUMBER GRADES SHALL BE AS FOLLOWS:
INTERIOR NON LOAD BRG WALLS SPPF2 OR BETTER
5. ALL EXPOSED TIMBERS OR TIMBERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.