

MORTON BUILDINGS GENERAL SPECIFICATIONS

LAMINATED COLUMNS - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER S4S COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

MFS PRE-CAST CONCRETE COLUMN - MORTON BUILDINGS FOUNDATION SYSTEM IS A PRE-ENGINEERED, 10,000 PSI, STEEL REINFORCED COLUMN FOR BELOW GROUND INSTALLATION. DESIGNED TO BE MECHANICALLY FASTENED TO ABOVE GROUND NAIL LAMINATED COLUMNS. THE SYSTEM IS DESIGNED TO RESIST BOTH AXIAL AND BENDING FORCES.

FOOTINGS AND ANCHORAGE - COLUMN HOLES ARE DUG A MINIMUM DEPTH OF 4'-0" BELOW GRADE (SEE PLANS FOR DIAMETER AND DEPTH). MFS PRE-CAST CONCRETE COLUMNS ARE PLACED IN THE HOLE CONCRETE (MINIMUM COMPRESSIVE STRENGTH 2500 PSI) IS POURED IN PLACE TO THE SPECIFIED THICKNESS (SEE PLANS FOR REQUIRED THICKNESS ABOVE AND BELOW THE COLUMN). THE COLUMN IS THEN BACKFILLED WITH SOIL AND COMPACTED AT 8" INTERVALS OR BACKFILLED WITH CONCRETE (SEE PLANS).

TREATED LUMBER -- PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE O. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR S4S. PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDE NAILERS ARE 2x4 S4S SPF W/2x3 STIFFENER, 2-2x4 L-NAILERS SPACED APPROXIMATELY 36" O.C. OR 2x6 NAILERS APPROXIMATELY 24" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x6 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. A. OTHER FRAMING LUMBER IS NO.2 OR BETTER.

ROOFING TRUSSES/PLATED RAFTERS - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TJSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED, IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING. PLATED RAFTERS ARE NO. 1 SOUTHERN YELLOW PINE.

SIDING & ROOFING PANELS (FLUOROFLEX 1000™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUM STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" OR 6" K-STYLE, .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.

2x6 F1 F1 MFS 09/20

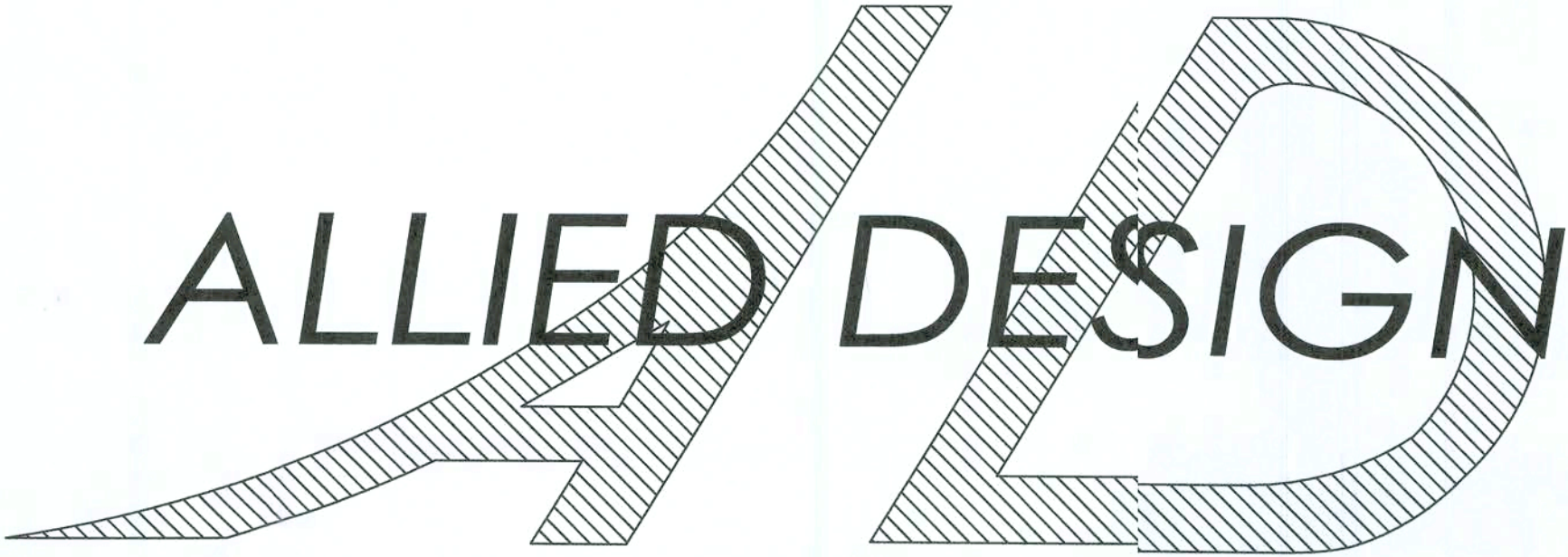
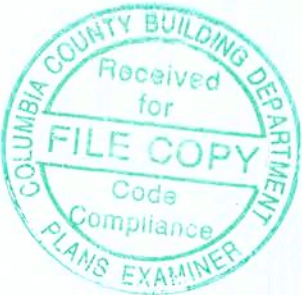
CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE Fb
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100f MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100f MSR SPF	2100 PSI
2x6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250f MSR SYP	2250 PSI
1 1/2"x16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"x15"	GLU-LAM	1650 PSI
5 1/4"x16 1/2"	GLU-LAM	2400 PSI
5 1/4"x19 1/2"	GLU-LAM	2400 PSI

FLORIDA PRODUCT APPROVAL NUMBRS	
PRODUCT	FL#
MBI HI-RIB WALL PANEL	25829.2
MBI HI-RIB ROOF PANEL	25577.2
MBI 910 ENTRY DOOR	25872.2
PELLA LIFESTYLE CASEMENT WINDOW	11865

SHEET INDEX	
SHEET #	DESCRIPTION
G1 OF G1	SPECIFICATIONS & SHEET INDEX
S1 OF S6	COLUMN PLAN
S2 OF S6	TRUSS/BRACING PLAN
S3 OF S6	DETAILS A & B, PURLIN DETAIL
S4 OF S6	ELEVATIONS
S5 OF S6	SECTION & DETAIL
S6 OF S6	SECTION

DESIGN AND EXPLANATORY NOTES

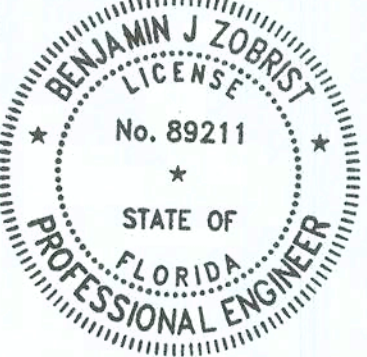
- 1.) ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.
- 2.) MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.
- 3.) NO ONE MAY ALTER ANY ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ENGINEER .
- 4.) ♦ THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.



BUILDING DESIGN CRITERIA		
BUILDING CODE	2017 FLORIDA BUILDING CODE	
USE GROUP	R-3	
CONSTRUCTION TYPE	VB	
RISK CATEGORY	II	
EXISTING BUILDING AREA	2184 SQ. FT.	
PROPOSED BUILDING AREA	132 SQ. FT.	
TOTAL BUILDING AREA	2316 SQ. FT.	
MINIMUM LIVE ROOF LOAD DESIGN	20 PSF	
GROUND SNOW LOAD	0 PSF	
WIND SPEED (Vult)	120 MPH	
WIND SPEED (Vasd)	93 MPH	
EXPOSURE CATEGORY	B	
INTERNAL PRESSURE COEFFICIENT	±0.18	
BUILDING DESIGN CONDITION	ENCLOSED	
WIND LOAD DESIGN	ASCE 7 (ENVELOPE METHOD)	
MAIN WINDFORCE RESISTING SYSTEM (ALL FORCES ACT NORMAL TO THE SURFACE) (FOR ZONES SEE MWFRS ON ELEVATIONS PAGE) (VALUES SHOWN = 0.6 * W) CASE 1 = (-) INTERNAL PRESSURE COEFFICIENT CASE 2 = (+) INTERNAL PRESSURE COEFFICIENT	CASE 1	CASE 2
	ZONE 1E	11.54 PSF
	ZONE 2E	-11.72 PSF
	ZONE 3E	-5.56 PSF
	ZONE 4E	-4.54 PSF
	ZONE 5E	10.41 PSF
	ZONE 6E	-3.29 PSF
	ZONE 1	8.41 PSF
	ZONE 2	-6.72 PSF
	ZONE 3	-3.16 PSF
	ZONE 4	-2.28 PSF
	ZONE 5	7.64 PSF
COMPONENT & CLADDING WIND LOADS (ALL FORCES ACT NORMAL TO THE SURFACE) (FOR ZONES SEE ELEVATIONS) (VALUES SHOWN = 0.6 * W) (ASSUMED EFFECTIVE WIND AREA = 10 SQ. FT.)	ZONE 6	-1.45 PSF
	ZONE 1	8.96 PSF , -14.23 PSF
	ZONE 2	8.96 PSF , -24.76 PSF
	ZONE 3	8.96 PSF , -36.62 PSF
	ZONE 4	15.54 PSF , -16.86 PSF

I HEREBY CERTIFY THAT THE STRUCTURAL DESIGN FOR THIS BUILDING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED/REGISTERED PROFESSIONAL ENGINEER.

2020.10.16 08:04:24 05'00'
BENJAMIN J. ZOBRIST, P.E.
FL LICENSE #: 89211
ben.zobrist@allieddesignaes.com



DIGITALLY CERTIFIED BY BENJAMIN J. ZOBRIST ON DATE ADJACENT TO SIGNATURE ABOVE. PRINTED COPIES OF THIS DOCUMENT IF ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ELECTRONIC COPIES.

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GAINESVILLE, FL

JOB NO.
131-101237

LAWANDA OR HERBERT THOMAS

WHITE SPRINGS, FL

BRIAN N. LONG, P.E.
REG. # 84641

ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.

100 S. PERSHING P.O. BOX 110 MORTON, IL 61550 COA # 8,400 [ENG] COA # AA003469 [AR] PHONE NUMBER: 309-263-4105

DRAWN BY: POLHEMUS

DATE: 9/30/2020

CHECKED BY: KNO

DATE: 10/7/2020

REVISED DATE: ----

REVISED DATE: ----

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SCALE: AS NOTED

SHEET NO.
G1 OF G1

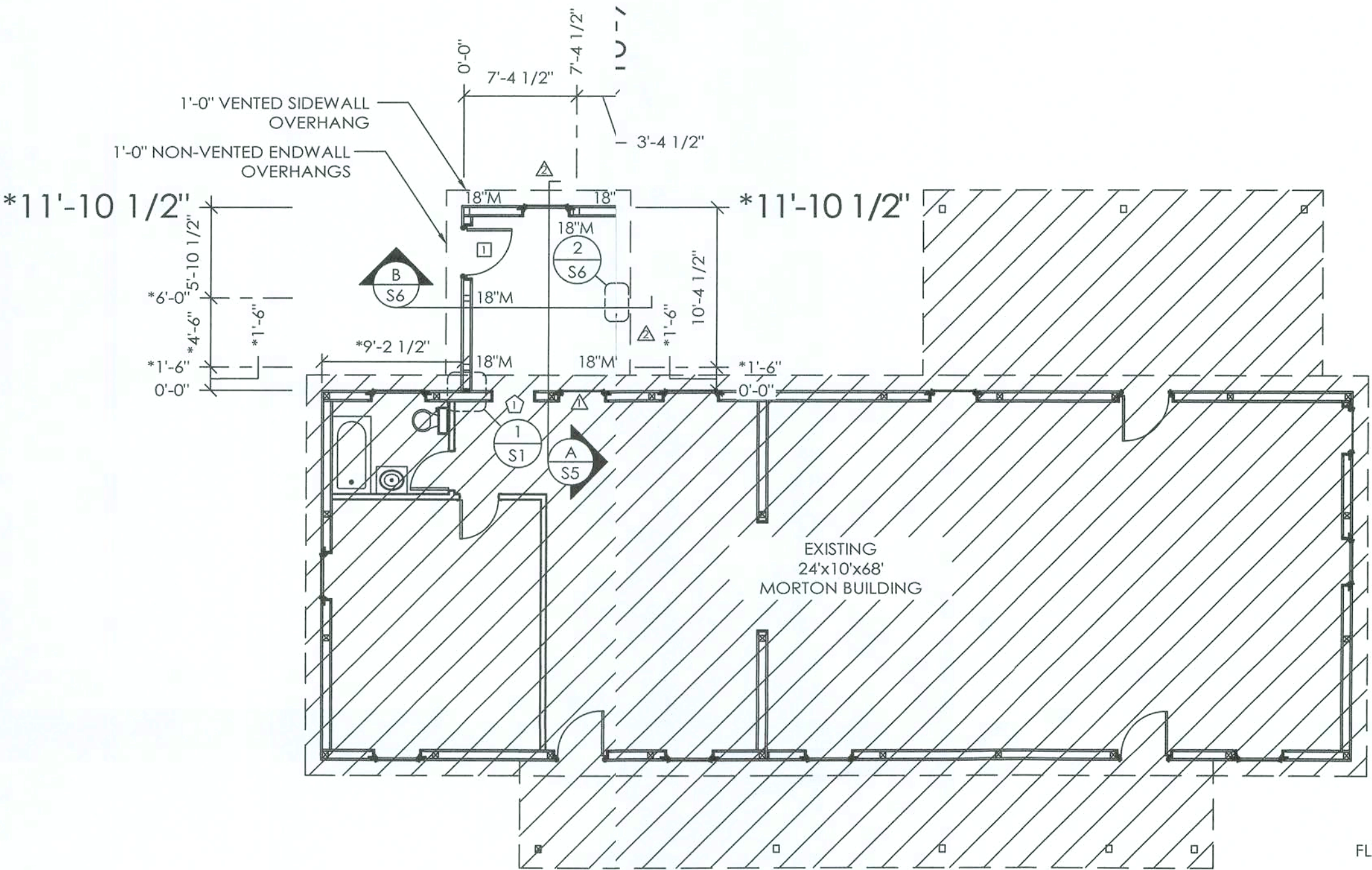
DESIGN AND EXPLANATORY NOTES

1.) * - INDICATES DIMENSIONS ARE TAKEN FROM THE OUTSIDE FACE OF THE EXISTING BUILDING NAILERS.

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ROUGH OPENING SCHEDULE		
UNIT SYMBOL FROM LEGEND	WIDTH	HEIGHT
1	37 3/4"	81"
2	VERIFY	VERIFY
△	VERIFY	VERIFY
△	VERIFY	VERIFY



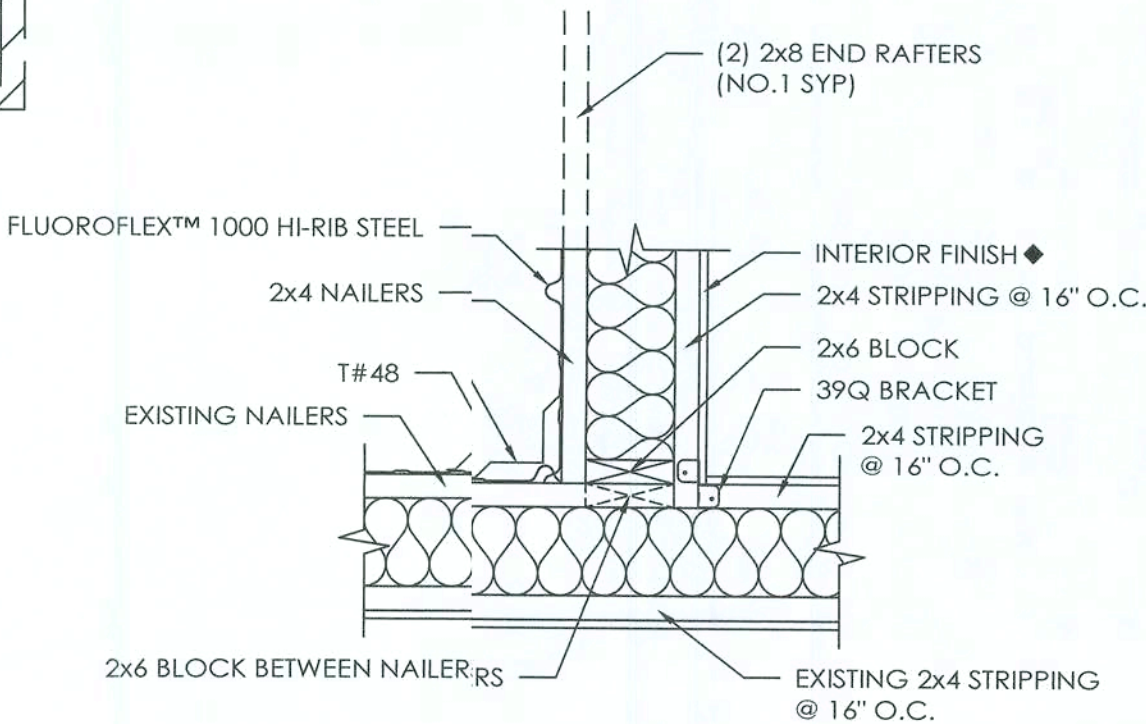
COLUMN PLAN



SCALE: 1" = 1'-0"

COLUMN PLAN LEGEND

- - EXISTING LAMINATED COLUMN LOCATION
- - 3-2x6 LAMINATED COLUMN LOCATION
- - 3068 MB910 9-LITE GLASS WITH CROSSBUCK WALKDOOR, IN SWING, RIGHT HINGE WITH SINGLE CYLINDER DEADBOLT, LOCKSET
- △ - 2'-8"x6'-8" FRAMED WALK DOOR OPENING WITH FLASHING REMOVED
- △ - 2'-11"x2'-11" PELLA LIFESTYLE DUAL PANE VENT AWNING WINDOW
- △ - (2) 2'-11"x3'-11" PELLA LIFESTYLE DUAL PANE VENT CASEMENT WINDOWS
- ALL STEEL FASTENED WITH STAINLESS STEEL SCREWS
- 7/16" OSB AND ROOFING FELT UNDER HI-RIB STEEL
- 18"M - 18" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.



CONNECTION DETAIL #1

SCALE: 1" = 1'-0"

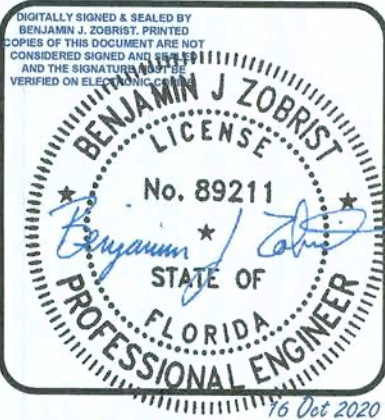
LAWANDA OR HERBERT THOMAS

WHITE SPRINGS, FL

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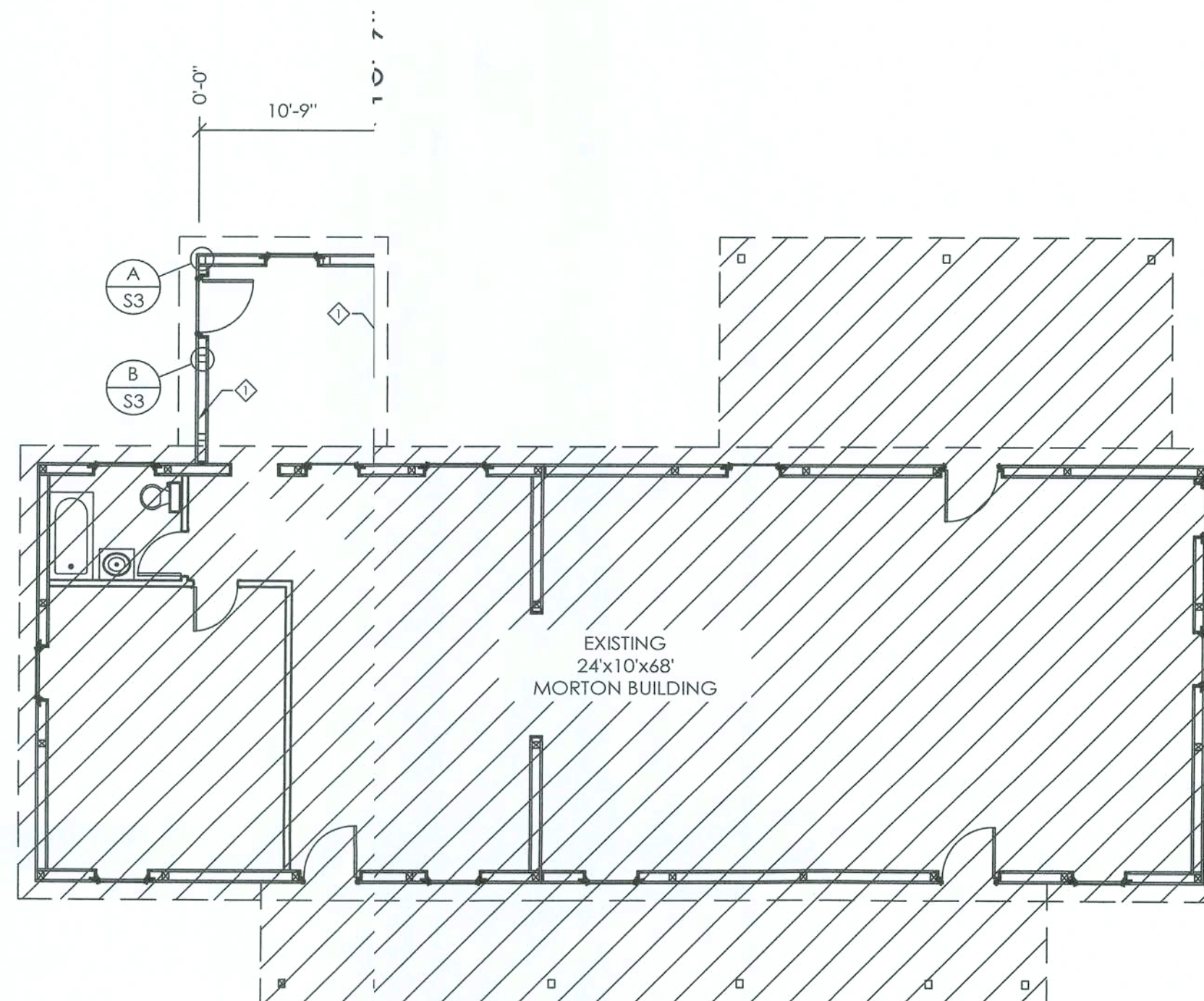
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SCALE: AS NOTED

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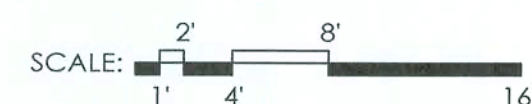
S1 OF S6



TRUSS/BRACING PLAN

TRUSS/BRACING PLAN LEGEND

◇ - (2) 2x8 END RAFTER (NO.1 SYP)



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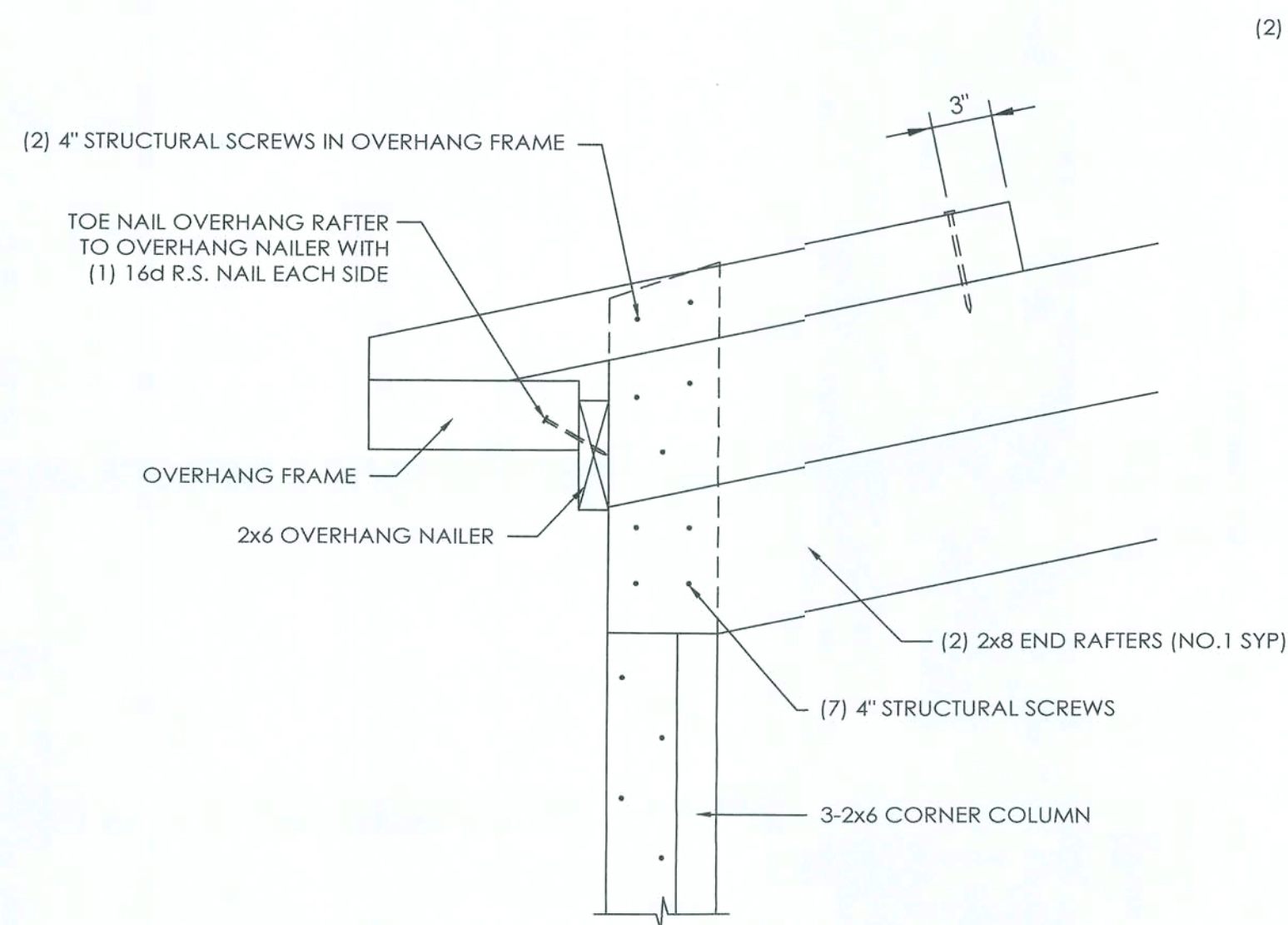
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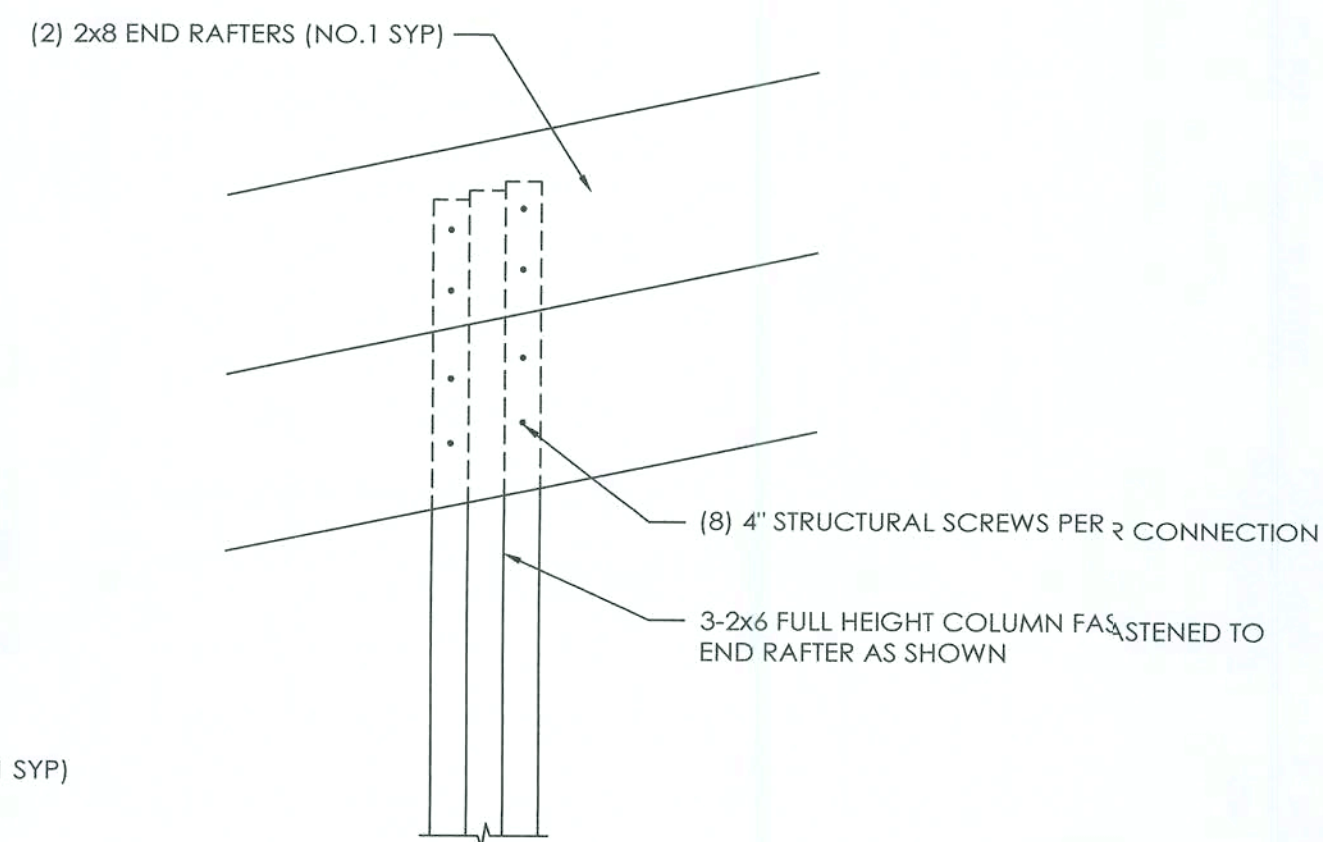
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SCALE: AS NOTED
SHEET NO.
S2 OF S6



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



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

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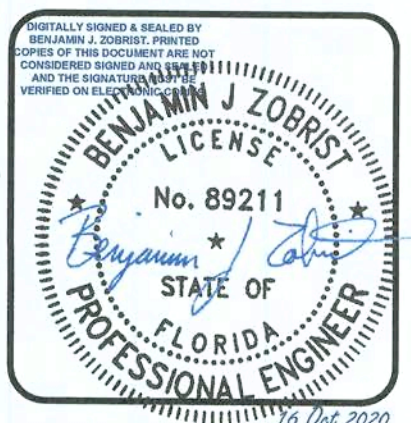
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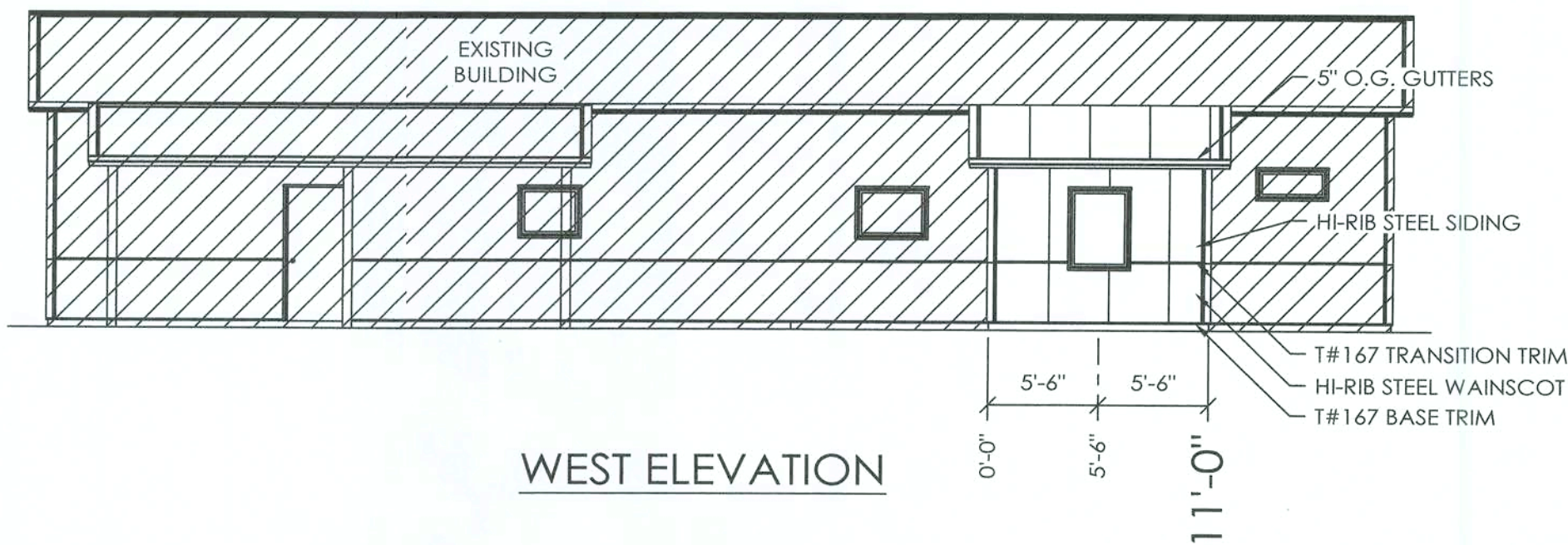
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SHEET NO.
S3 OF S6

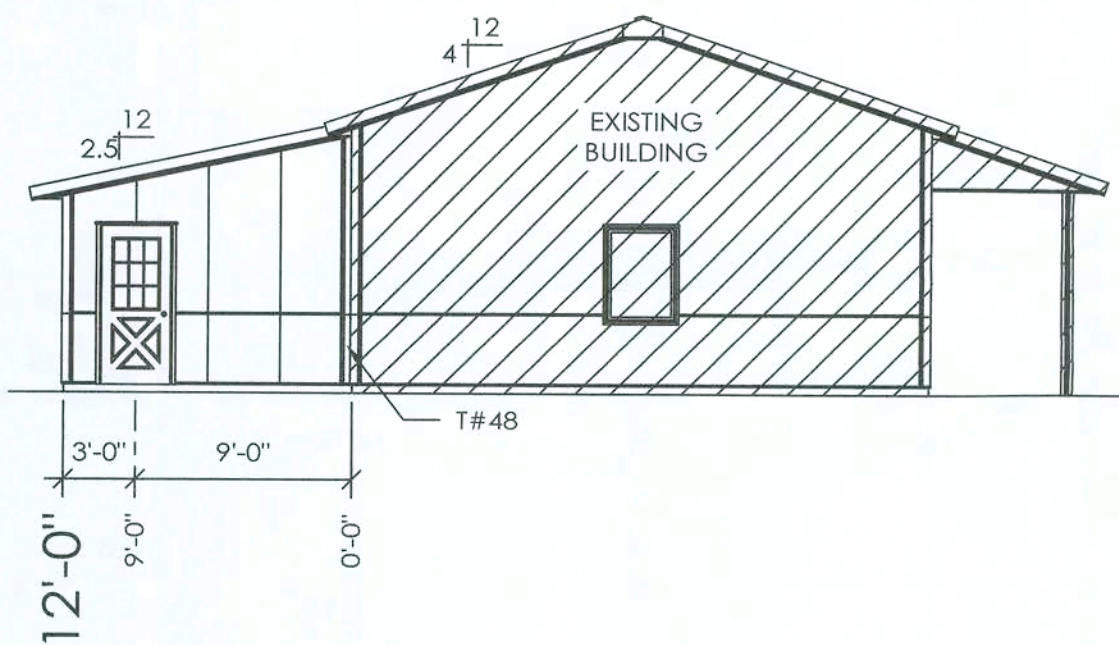
DESIGN AND EXPLANATORY NOTES

1.) EXTERIOR DOOR AND WINDOW LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR AND WINDOW UNITS. VERIFY ALL DOOR, WINDOW, SKYLIGHT AND SIDELIGHT LOCATIONS WITH THE OWNER.

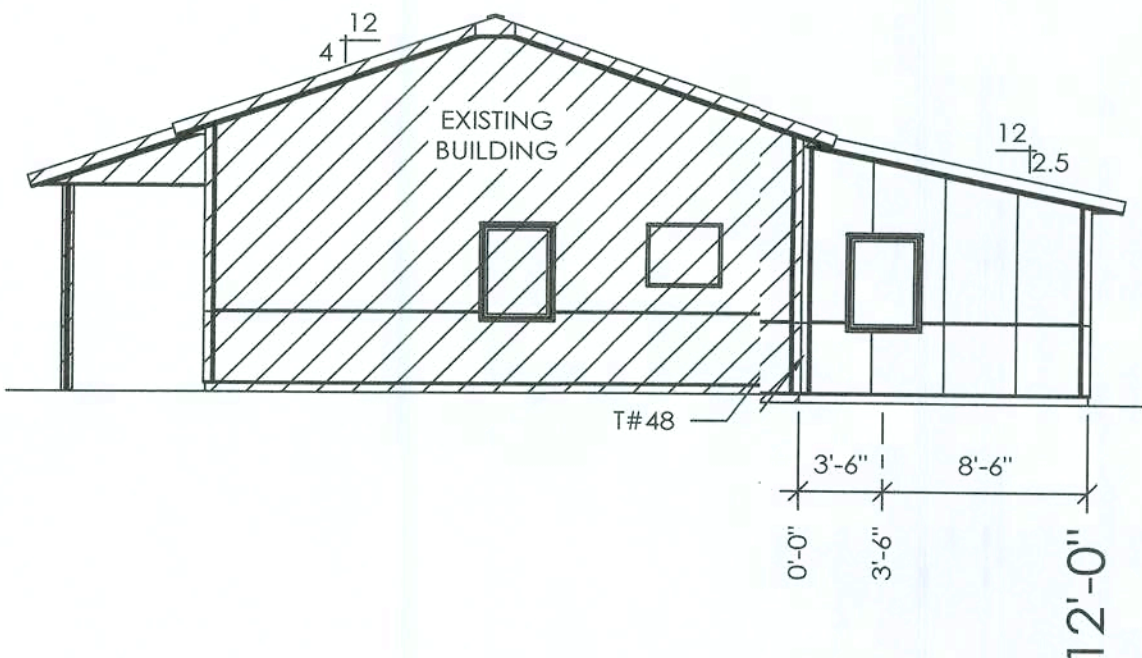
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WEST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION

SCALE: 1" = 4'

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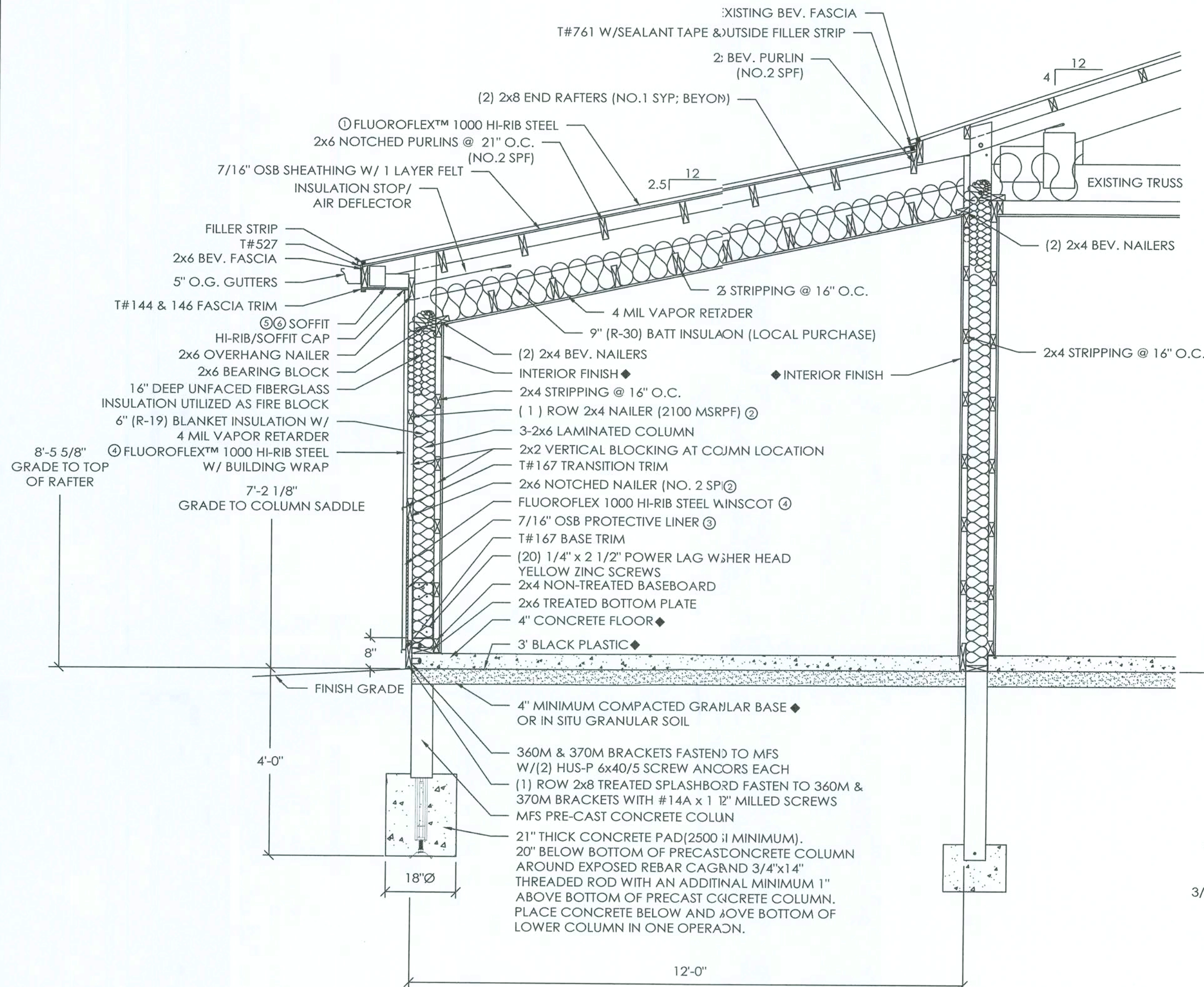
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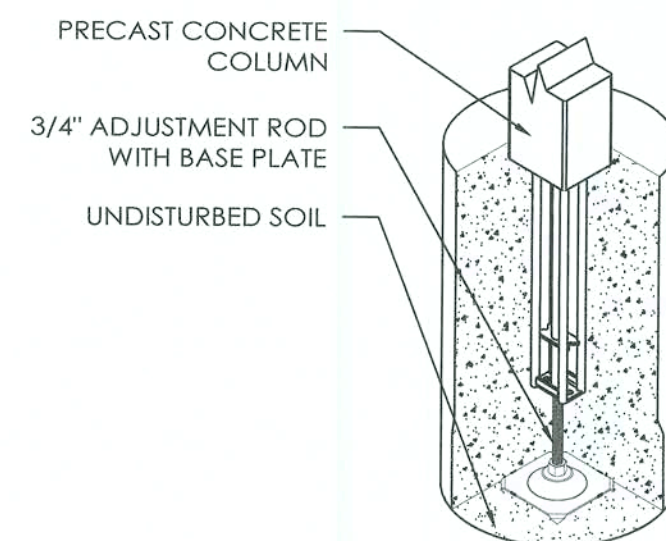
SCALE: AS NOTED
SHEET NO.
S4 OF S6

DESIGN AND EXPLANATORY NOTES

- FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. LOCAL CONDITIONS MAY REQUIRE MODIFICATIONS.
- CONCRETE FLOOR NOTES:
 - 3500 PSI, 5 1/2 BAG MIX CONCRETE.
 - SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS 5' OVERHANG WIDTH
 - PLACE A MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER OVER A COMPACTED GRANULAR BASE AND DIRECTLY BELOW THE CONCRETE FLOOR.
 - CONTRACTION JOINTS UNIFORMLY SPACED 12' O.C. OR LESS.
 - FOR PERIMETER INSULATION USE EXTRUDED POLYSTYRENE OR A COMPARABLE PRODUCT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 25 PSI.
- PRIOR TO PLACING THE CONCRETE FOOTINGS, HAND TAMP THE BOTTOM 2'-3" OF LOOSE SOIL TO CONSOLIDATE. IF THE DRILLED HOLE CONTAINS MORE THAN 3" OF LOOSE SOIL, REMOVE EXCESS SOIL TO A UNIFORM THICKNESS OF 2'-3", HAND TAMP AND PROCEED WITH CONCRETE FOOTING PLACEMENT.
- DO NOT PLACE CONCRETE FOOTING THROUGH MORE THAN 3" OF STANDING WATER. IF MORE THAN 3" OF STANDING WATER IS PRESENT IN THE FOOTING HOLE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR INSTALLATION INSTRUCTIONS.



SIDEWALL SECTION A
SCALE: 1/2" = 1'-0"



LOWER COLUMN ISOMETRIC

LOWER COLUMN INSTALLATION

- INSTALL PRECAST CONCRETE COLUMN W/ADJUSTMENT ROD & BASE PLATE IN THE AUGERED HOLE.
- PLUMB PRECAST CONCRETE COLUMN IN BOTH DIRECTIONS
- ADJUST HEIGHT UP OR DOWN WITH ADJUSTMENT HEX ROD
- POUR READI-MIX CONCRETE INTO THE HOLE AS SPECIFIED.
- BACKFILL AND COMPACT THE ANNULAR SPACE AROUND THE COLUMN TO GRADE WITH SOIL AUGERED FROM THE SITE.

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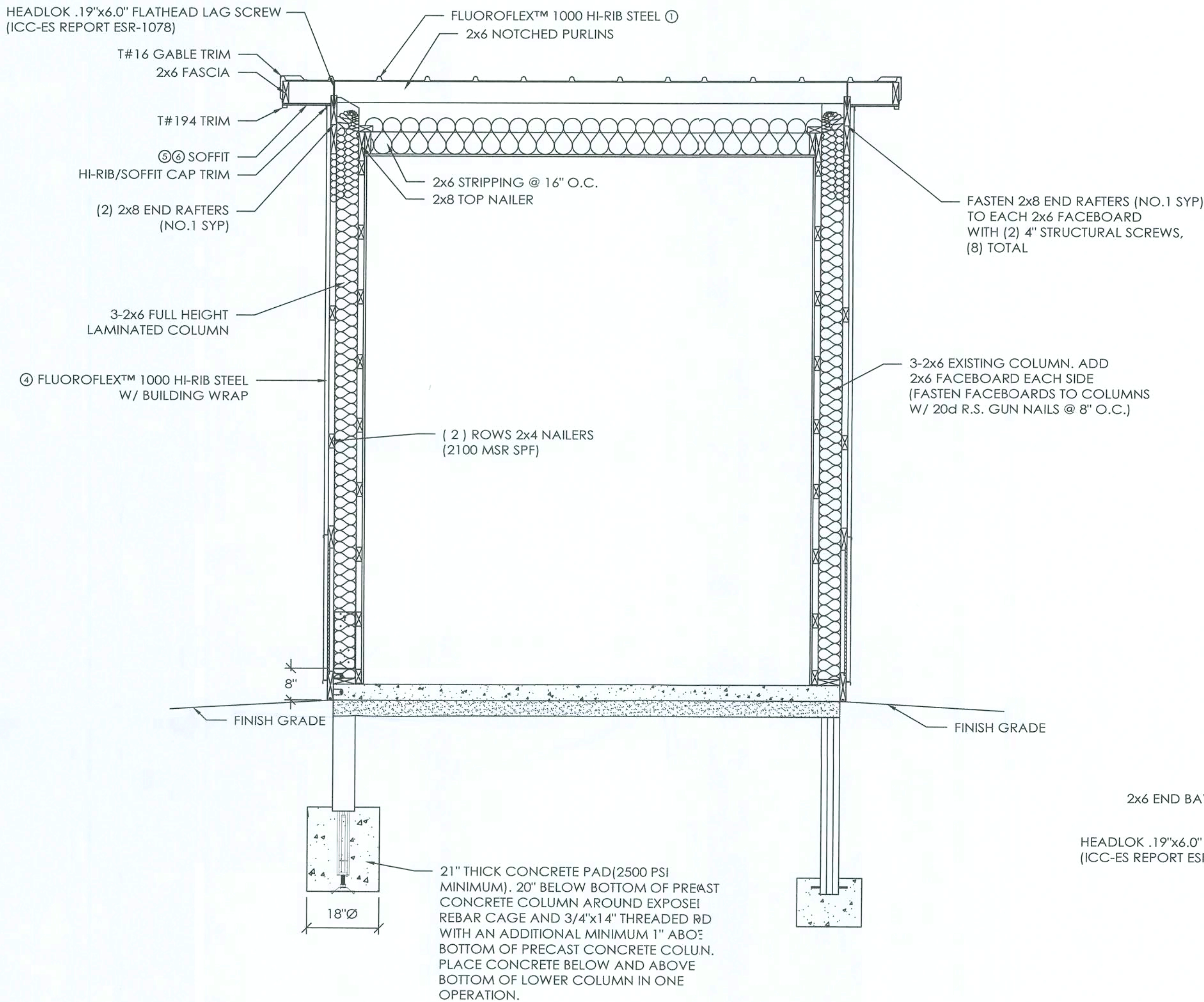
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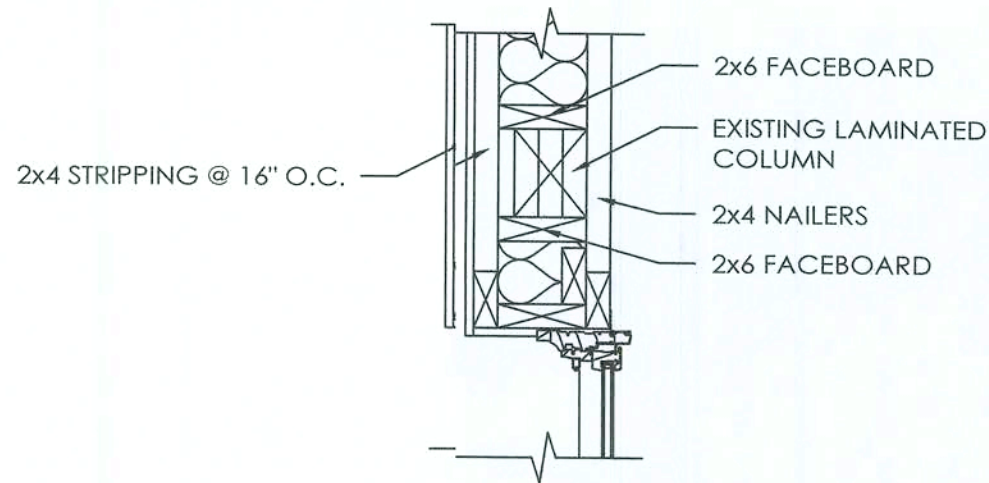


SCALE: AS NOTED
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S5 OF S6

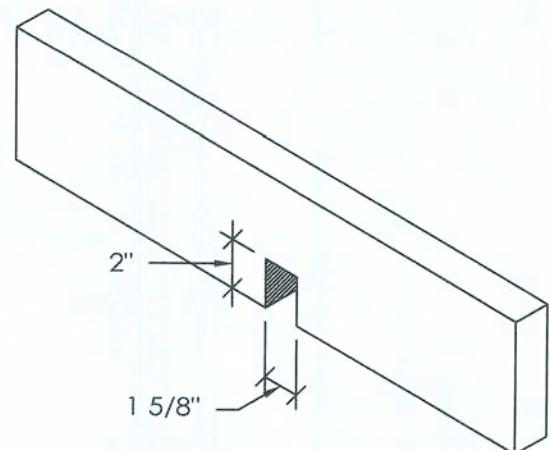
WALL FRAMNG FASTENING SCHEDULE		
①	HI-RIB STEEL TO 2x6 PURLINS	#9 x 2" STAINLESS STEEL RUBBER WASHER PANHEAD INTERNAL DRIVE SCREWS AT EVERY HI-RIB (1'-0" o.c.)
②	NAILERS TO COLUMN	(4) 0.148" x 3-2" (16d) RING SHANK NAILS @ SPLICE/ (3) 0.148" x 3-1/2" (16d) RING SHANK NAILS @ STANDARD CONNECTION
③	7/16" OSB TO SPLASHBOARD & NOTCHED NAILER	0.099" x 1-1/4" SBESTOS SIDING NAILS
④	HI-RIB STEEL TO NAILERS	#9 x 2" STAINLESS STEEL RUBBER WASHER PANHEAD INTERNAL DRIVE SCREWS AT EVERY HI-RIB (1'-0" o.c.)
⑤	SOFFIT TO WALL	INSERTED IN PE-FORMED SLOT IN SOFFIT/HI-RIB CAP
⑥	SOFFIT TO FASCIA	T-50 MONEL STRIPS (2) PER PIECE



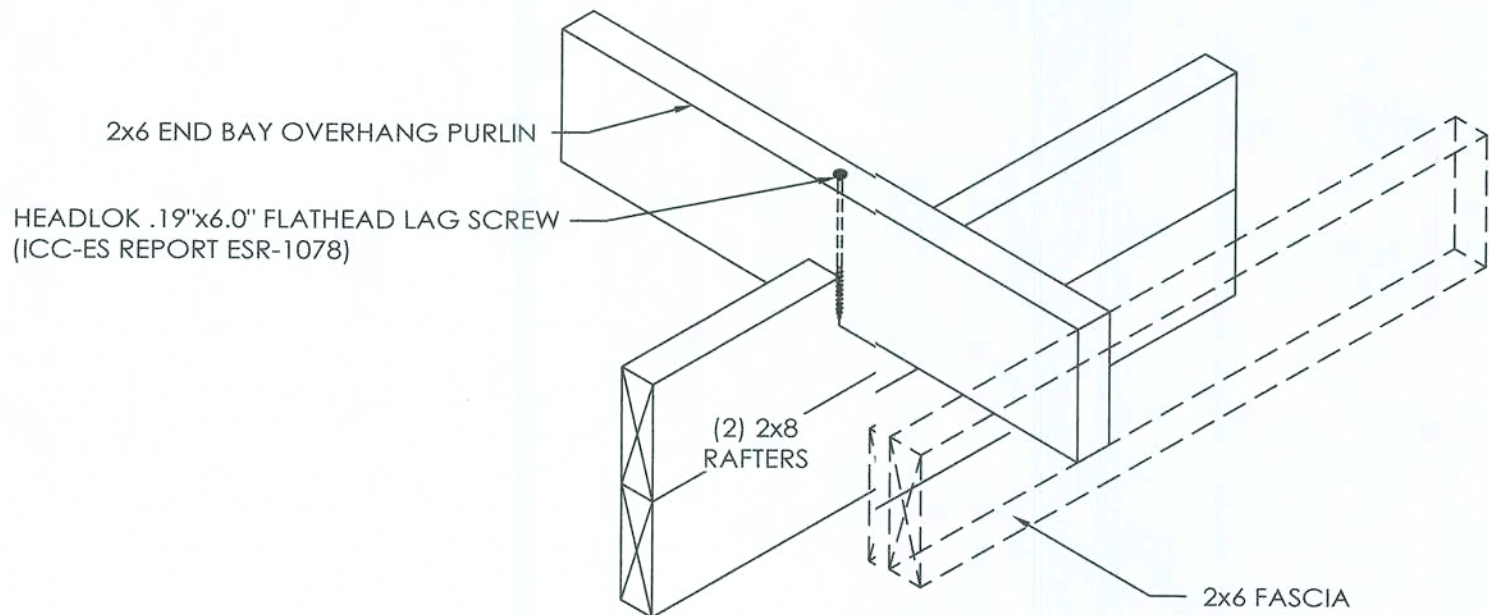
CROSS SECTION B
SCALE: 1/2" = 1'-0"



COLUMN DETAIL #2
SCALE: 1" = 1'-0"



2x6 END BAY PURLIN NOTCH DETAIL



NOTE:
1'-0" END OVERHANG SHOWN

2x6 END OVERHANG DETAIL
(PURLIN CONNECTED WITH 60d R.S. NAIL)
SCALE: 1 1/2" = 1'-0"

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SCALE: AS NOTED

SHEET NO.

S6 OF S6