

BID DOCUMENT PLAN FOR NEW SHOW BARN FOR

CLARK COUNTY WI—
FAIRGROUNDS

1121 EAST DIVISION STREET
NEILLSVILLE WI 54456

SHEET INDEX

PAGE	CONTENTS	BY:
Title	SHEET INDEX, DESIGN LOADS & CONSTRUCTION NOTES	
	SEE MSA PLAN PACKAGE IN THE BID PACKAGE FOR SITE INFORMATION	MSA PROFESSIONAL SERVICES DANIEL BORCHARDT 146 NORTH CENTRAL AVE MARSHFIELD WI 54449 dborchardt@msa-ps.com
A1	FLOOR PLAN	BESTIMATE LLC BOB LEWERENZ 714 E NINTH ST MARSHFIELD WI 54449 bob@bestimatellc.com
A2	FOUNDATION PLAN	
A3	ELEVATIONS	
A4	SECTIONS & DRIFTING DIAGRAM	
A5	SECTIONS & DETAILS	
A6	SECTIONS & DETAILS	

RESTROOM FACILITIES		
SEE THE MSA SITE PLAN PAGE C2.3 FOR EXISTING RESTROOM FACILITY LOCATION		
HARDWARE NOTES		
*LEVER LOCKSETS TO BE SCHLAGE "D" LOCKSETS OR EQUAL. *ALL EXTERIOR DOORS AND JAMBS TO HAVE NORTON 1604BH "ADA" ACCEPTABLE CLOSERS OR EQUAL. *ALL EXTERIOR DOOR THRESHOLDS SHALL BE "ADA" ACCEPTABLE NOT TO EXCEED 1/2" HIGH. / *ALL EXTERIOR DOORS SHALL BE FULLY WEATHERSTRIPPED WITH SWEEPS.		
ALLOWABLE AREA		
PER IBC 506.3.3, The BASIC allowable area of a Type VB construction Group A-4 occupancy is 24,000 square feet. Per Equation 5-2: If = [F / P-.25] W / 30 If F = 688' total perimeter of building with 20' driveway all around If P = 688' total perimeter of building If W = 20' public way all the way around [688 / 688] = (1 -.25) = (.75 x (20/30)) = .5 Area increase due to frontage x 24,000sf Basic allowable area = <u>36,000sf > 27,580 sf final floor plan.</u>		
CODE NOTES		
OCCUPANCY: ASSEMBLY GROUP A-4 - UNCONDITIONED SPACE TYPE VB COMBUSTIBLE UNPROTECTED CLASS OF CONSTRUCTION BUILDING IS 27,580 SF ONE STORY UNHEATED SPRINKLERED WOOD POST FRAME BUILDING.		
RESTROOM FACILITIES ARE IN A SEPARATE BUILDING		
DESIGN LOADS		
SNOW LOAD	GROUND SNOW LOAD (Pg) = SNOW EXPOSURE FACTOR (Ce) = SNOW LOAD IMPORTANCE FACTOR (Is0 = ROOF THERMAL FACTOR (Ct = FLAT ROOF SNOW LOAD = SLOPED ROOF / FLAT ROOF FACTOR (Ps) = BALANCED SNOW LOAD = UNBALANCED SNOW LOAD =	50 PSF 1.0 1.0 1.2 42 PSF 1 42 PSF 12.6 =.3 *Ps
ROOF TRUSS DESIGN	TOP CHORD LIVE LOAD = TOP CHORD DEAD LOAD = BOTTOM CHORD DEAD LOAD =	68.3 PSF 10 PSF 10 PSF
ULTIMATE WIND PRESSURE	115 MPH WIND, WIND EXPOSURE = WIND IMPORTANCE FACTOR (I) = BUILDING ENCLOSURE TYPE = INTERNAL PRESSURE COEFFICIENT = COMPONENT & CLADDING DESIGN PRESSURE =	C 1.0 ENCLOSED ±.018 +32.1, -75.6 PSF
SEISMIC LOAD	SEISMIC IMPORTANCE FACTOR (I_e) = SITE CLASS = SEISMIC DESIGN CATEGORY = SPECTRAL RESPONSE COEFFICIENTS: S_ds = S_d1 =	1 D A 5.2% 5.1%
CONCRETE REQUIREMENTS	SLAB ON GRADE COMPRESSIVE STRENGTH MINIMUM PSI @ 28 DAYS = FOOTING FOUNDATIONS COMPRESSIVE STRENGTH MINIMUM PSI @ 28 DAYS = WALL COMPRESSIVE STRENGTH MINIMUM PSI @ 28 DAYS = CONCRETE REINFORCING STEEL - Fy (ASTM A615, GRADE 60 =	3500 PSI 3500 PSI 3500 PSI 60000 PSI
STRUCTURAL STEEL	WF SHAPES - Fy (ASTM A992) = ANGLE, CHANNEL, FLAT SHAPES - Fy (ASTM A36) = STRUCTURAL TUBING - Fy (ASTM A500) = STRUCTURAL PIPES - Fy (ASTM A53) =	50000 PSI 36000 PSI 46000 PSI 35000 PSI
SOILS INFORMATION	CLASS OF MATERIALS = ALLOWABLE SOIL BEARING PRESSURE =	4 FIRM 3000 PSF

Noted

15MAY18

BL

18-320

ClarkCounty ShowBarn

StateApprovalPlan 29nov19

REVISIONS:

5SEP18 6SEP18 20sep19 15OCT19

17OCT19 31OCT19 4NOV19 7NOV19 20NOV19

2DEC19 6FEB20

PROPOSED SHOW & SALE BARN FOR
CLARK COUNTY FAIRGROUNDS
1121 EAST DIVISION ST
NEILLSVILLE WI 54456

BESTIMATE LLC



http://bestimatellc.com

714 E Ninth St
Marshfield, WI 54449

bob@bestimatellc.com

715-506-0040

PAGE NO:

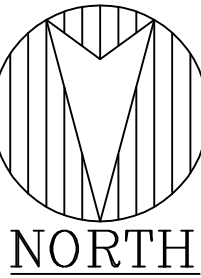
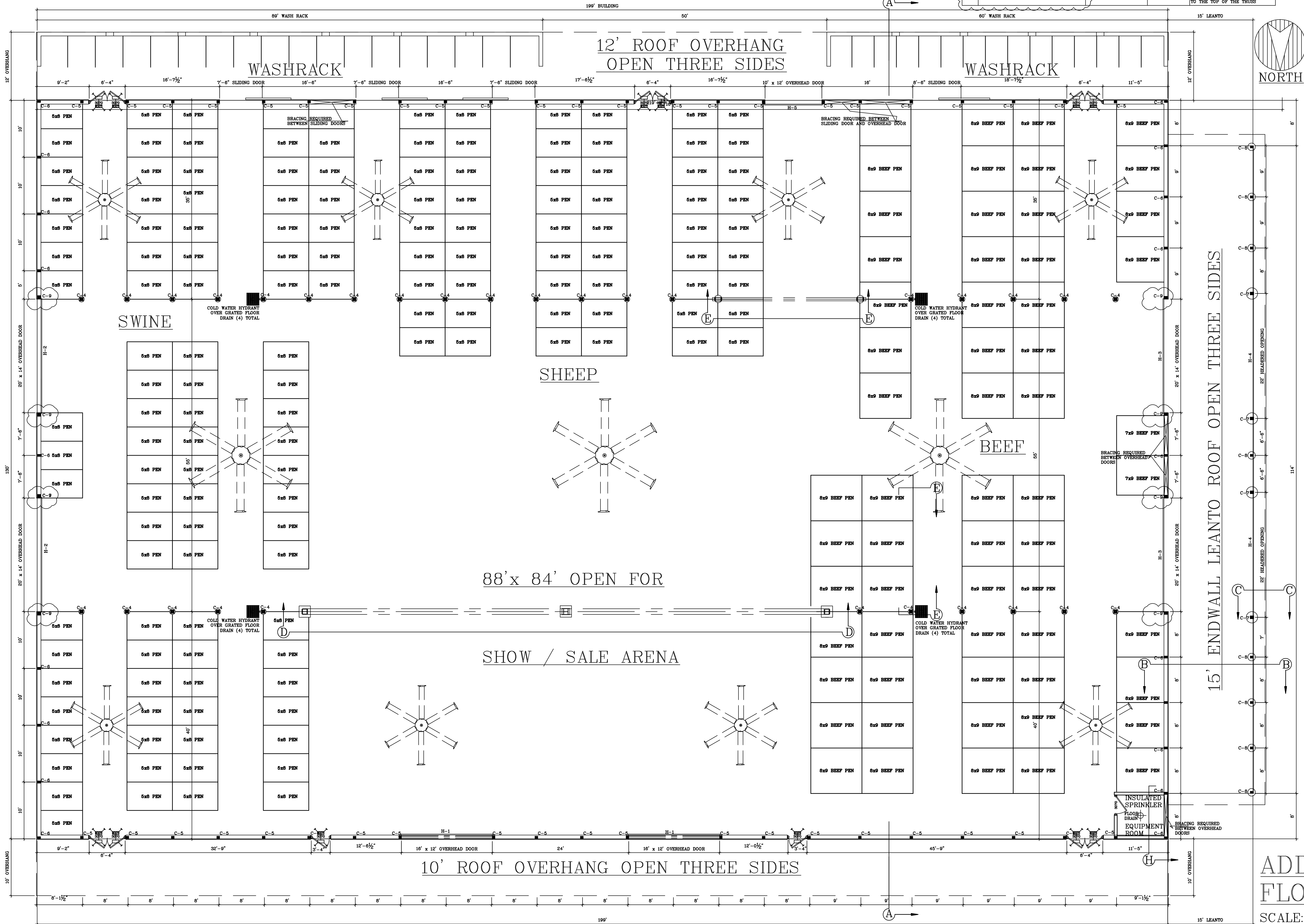
Title

OCCUPANCY: PER IBC TABLE 1004.1.2 DIVIDE THE TOTAL SF OF BUILDING AREA, 27580 SF (NOT INCLUDING THE AREA UNDER NORTH AND SOUTH OVERHANGS THAT ARE NOT ENCLOSED BUILDING) / 30 SF PER PERSON FOR "EXHIBIT GALLERY AND MUSEUM" = 920 PERSONS < 1000 PERSON OCCUPANCY

HEADER SCHEDULE			
MARK	DESCRIPTION	BEARING @ EACH END	NOTES
H-1	2 PLY 1½ x 20" #LVL 2.0R	2 PLY 2x6 #2 SPF	1 PLY LVL AND 1 2x6 SHOULDER INSIDE & 1 OUTSIDE OF THE POST
H-2	2 PLY 1½ x 14" #LVL 2.0R	2 PLY 2x6 #2 SPF	1 PLY LVL AND 1 2x6 SHOULDER INSIDE & 1 OUTSIDE OF THE POST
H-3	4 PLY 1½ x 14" #LVL 2.0R - 2 STACKED INSIDE & OUTSIDE OF POST	2 PLY 2x6 MS1650	2 PLY LVL STACKED & 1 - 2x6 SHOULDER INSIDE & 1 OUTSIDE OF THE POST
H-4	W8x26 STEEL BEAM	BOLTED CONNECTIONS TO END POSTS & TRUSSES	SEE CROSS SECTION C-C - HANDFRAME OVERHANG
H-5	2 PLY 1½ x 16" #LVL 2.0R	2 PLY 2x6 #2 SPF	1 PLY LVL AND 1 2x6 SHOULDER INSIDE & 1 OUTSIDE OF THE POST

COLUMN SCHEDULE			
MARK	DESCRIPTION	BASE PLATE	PLATE @ TOP
C-1	W12x40 STEEL COLUMN	0	0
C-3	W10x77 STEEL COLUMN		
C-4	5 PLY 2x6 NOM. LAMINATED TITAN TIMBER POST UP TO MONO TRUSSES - 3 PLY UP TO CENTER TRUSS - 1 PLY @ CENTER TRUSS	MITek USP KCB SERIES CONCRETE ANCHOR W/ 2 EA ¾" HEX BOLTS EACH - TO BE SPECIAL ORDERED OR FABRICATED WITH ONE FLUSH SIDE @ CORNERS & DOOR JAMBS	
C-5	4 PLY 2x6 NOM. LAMINATED TITAN TIMBER		
C-6	3 PLY 2x6 NOM. LAMINATED TITAN TIMBER		
C-7	4 PLY 2x6 NOM. LAMINATED TITAN TIMBER		
C-8	3 PLY 2x6 NOM. LAMINATED TITAN TIMBER		
C-9	5 PLY 2x6 NOM. LAMINATED TITAN TIMBER		

NOTES	
ALL ENDWALL POSTS MUST BE FULL HEIGHT FROM THE CONCRETE TO THE TOP OF THE TRUSS	
ALL ENDWALL POSTS MUST BE FULL HEIGHT FROM THE CONCRETE TO THE TOP OF THE TRUSS	

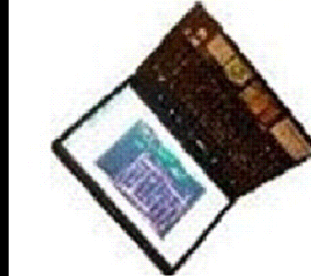


ADDENUM #1
FLOOR PLAN
SCALE: 1/8" = 1'-0"

SCALE: Noted
DATE: 15MAY18
NAME: BL
DWG. NO: 18-320
CAPTION: ClarkCounty ShowSale&Pen
Building State Approval Plan 27aug19
REVISED: 5SEP18 6SEP19 20SEP19 15OCT19 31OCT19 4NOV19 7NOV19 29NOV19 10FEB20 9JUL20

PROPOSED SHOW & SALE BARN FOR
CLARK COUNTY FAIRGROUNDS
1121 EAST DIVISION ST
NELLISVILLE WI 54456

BESTIMATE LLC
http://bestimatellc.com
714 E Ninth St
Marshfield, WI 54449
bob@bestimatellc.com
715-506-0040



ALL CONCRETE FLOORS:

6" POURED CONCRETE FLOOR REINFORCED W/ #4 REBAR @ 2'OC BOTH WAYS OVER 6MIL POLY & 2" EXTRUDED POLYSTYRENE INSULATION ON MINIMUM 6" BASE AGGREGATE NOT TO EXCEED 1-1/4" DIAMETER. ALL FLOORS TO BE LIGHT BROOM FINISHED.

CONCRETE REQUIREMENTS:

ALL READY MIX CONCRETE SHALL HAVE 3,500 PSI COMPRESSIVE STRENGTH MINIMUM @ 28 DAYS. PROVIDE FOR ADEQUATE EXPANSION JOINTS BY SAWCUTTING AND FILLING SLABS SO MAXIMUM AREA SHALL NOT EXCEED FOUR HUNDRED (400) SQUARE FEET OR 20' IN EITHER DIRECTION.

REINFORCING REQUIREMENTS

ALL CONCRETE REINFORCING STEEL SHALL BE ASTM A615, GRADE 60- 60,000 PSI. ALL CONCRETE REINFORCING STEEL SHALL BE FLOATED IN THE FLOORS BY USING A HALF CONCRETE BRICK OR 2" REBAR CHAIR SUPPORTS. MAINTAIN 3" COVER & LAP SPLICES 20 DIAMETERS.

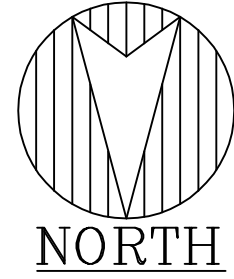
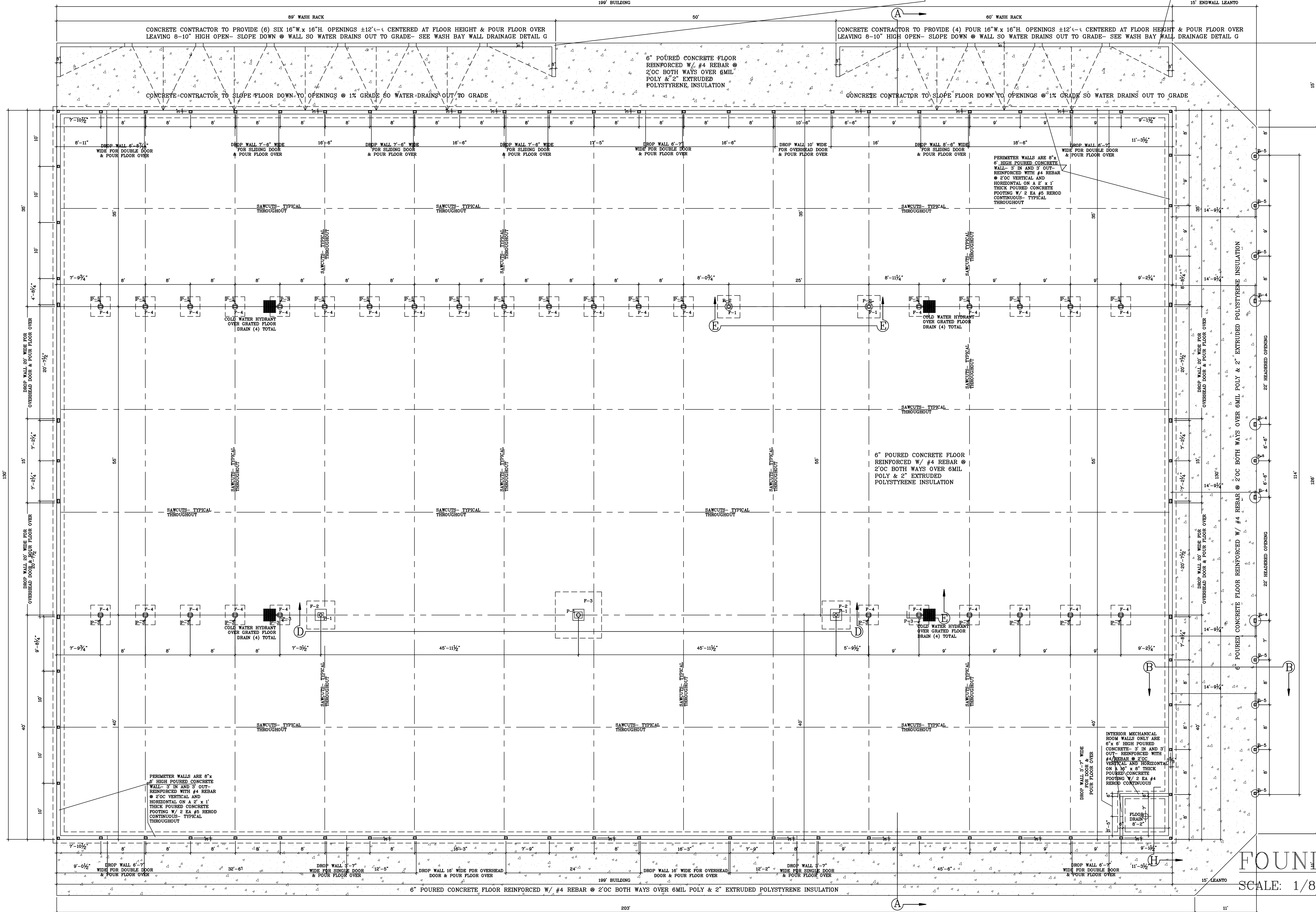
PVC SLEEVES

CONCRETE CONTRACTOR MUST SET UP TO 100 SLEEVES IN THE FLOOR FOR BEEF PEN PANEL UPRIGHT POSTS. CLARK COUNTY WILL PROVIDE THE SLEEVES AND A LAYOUT FOR THE SLEEVES BEFORE FLOOR IS POURED.

PIER & PILASTER SCHEDULE			
MARK	FOOTING SIZE	REINFORCEMENT	CONNECTION
P-1	24" x 24" x 6'-0" HIGH POURED CONCRETE PIER- 5' IN & 3' OUT	16 EA #5 REBAR VERTICALS & #3 REBAR TIES @ 6" OC (12 TOTAL) - 2" COVER	4 EA MINIMUM 3/4" x 16" ANCHOR BOLTS (EMBEDDED 12")
P-2	16" x 8'-0" HIGH POURED CONCRETE FILLED SONNA TUBE- 5' IN & 3' OUT	8 EA #5 REBAR VERTICALS & #3 REBAR TIES @ 6" OC (16 TOTAL) - 2" COVER	2 EA MINIMUM 3/4" x 16" ANCHOR BOLTS (EMBEDDED 12")
P-3	12" x 8'-0" HIGH POURED CONCRETE FILLED SONNA TUBE- 5' IN & 3' OUT	4 EA #6 REBAR VERTICALS & #3 REBAR TIES @ 6" OC (16 TOTAL) - 2" COVER	MITEK USP KCB SERIES CONCRETE ANCHOR W/ 2 EA F" HEX BOLTS EACH
P-4	24" x 9'-0" HIGH ROUND POURED CONCRETE PIER - 6' IN & 3' OUT	4 EA #6 REBAR VERTICALS @ 12" OC & #3 REBAR TIES @ 10" OC (10 TOTAL) - 2" COVER	MITEK USP KCB SERIES CONCRETE ANCHOR W/ 2 EA F" HEX BOLTS EACH
P-5	16" x 9'-0" HIGH ROUND POURED CONCRETE PIER - 6' IN & 3' OUT	4 EA #6 REBAR VERTICALS @ 12" OC & #3 REBAR TIES @ 10" OC (11 TOTAL) - 2" COVER	MITEK USP KCB SERIES CONCRETE ANCHOR W/ 2 EA F" HEX BOLTS EACH

FOOTING SCHEDULE			
MARK	FOOTING SIZE	REINFORCEMENT	CONNECTION
F-1	4'0" x 4'0" x 14" THICK	#4 REBAR @ 7' OC BOTH WAYS (7 MIN)-	SEE SECTION E ON A5
F-2	5'0" x 5'0" x 14" THICK	#5 REBAR @ 13' OC BOTH WAYS (5 MIN)-	SEE SECTION D ON A5
F-3	8'3" x 8'3" x 16" THICK	#6 REBAR @ 13' OC BOTH WAYS (6 MIN)-	SEE SECTION D ON A5
F-4	3'6" x 3'6" x 14" THICK	#4 REBAR @ 8' OC BOTH WAYS (5 MIN)-	SEE SECTION A ON A4

WASH BAY WALLS ARE 8"x 6" HIGH POURED CONCRETE WALL- 3' IN AND 3' OUT-
REINFORCED WITH #4 REBAR @ 2'OC VERTICAL AND HORIZONTAL ON A 16" x 8"
THICK POURED CONCRETE FOOTING W/ 2 EA #5 REROD CONTINUOUS- TYPICAL



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

SCALE: Noted

DATE: 15MAY18

NAME: BL

DWG. NO: 18-320

CADFILE:

REVISIONS: 5SEP18 6SEP18 20SEP19 15OCT19 31OCT19 5NOV19 7NOV19 29NOV19 2DEC19 6FEB20 10FEB20 18FEB20

ClarkCounty ShowSale&Pen

Building State Approval Plan 27aug19

REVISIONS: 5SEP18 6SEP18 20SEP19 15OCT19 31OCT19 5NOV19 7NOV19 29NOV19 2DEC19 6FEB20 10FEB20 18FEB20

PROPOSED SHOW & SALE BARN FOR

CLARK COUNTY FAIRGROUNDS

1121 EAST DIVISION ST

NELLISVILLE WI 54456

BESTIMATE LLC

<http://bestimatellc.com>

714 E Ninth St

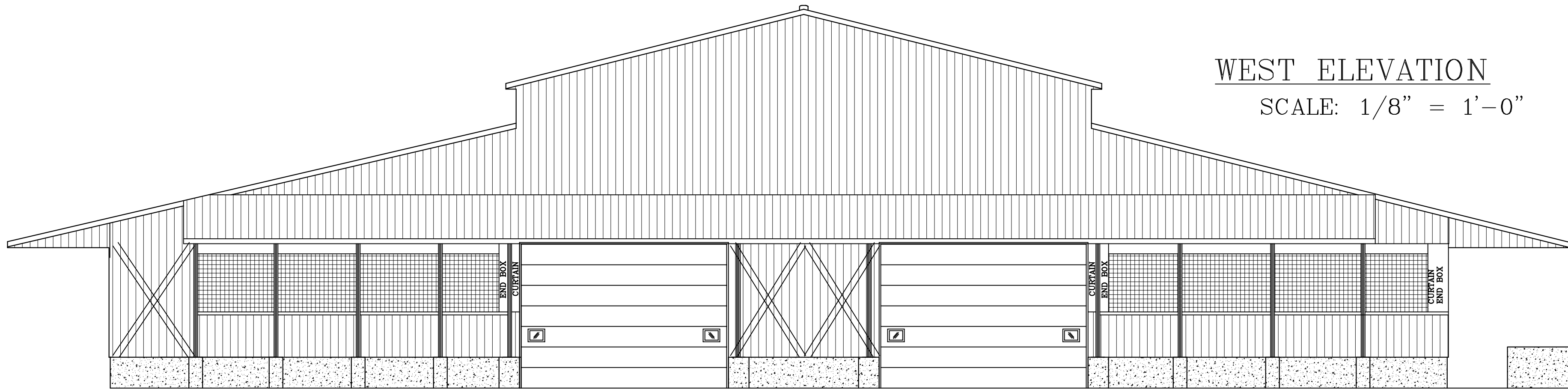
Marshfield, WI 54449

bob@bestimatellc.com

715-506-0040

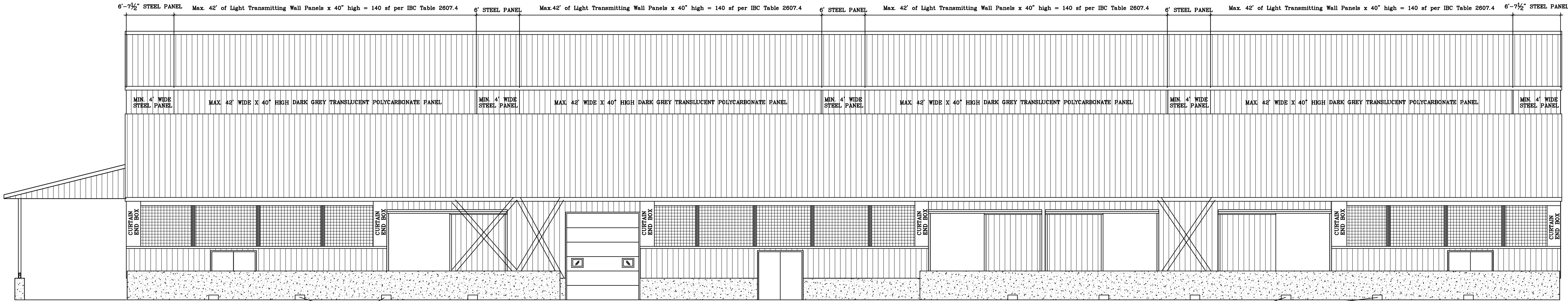
PAGE NO:

A2



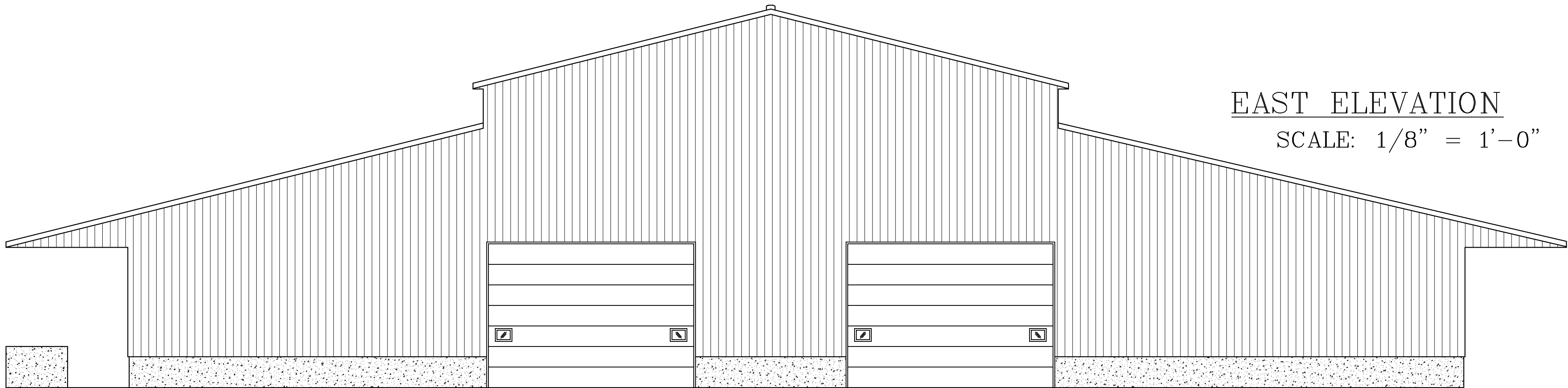
WEST ELEVATION

SCALE: 1/8" = 1'-0"



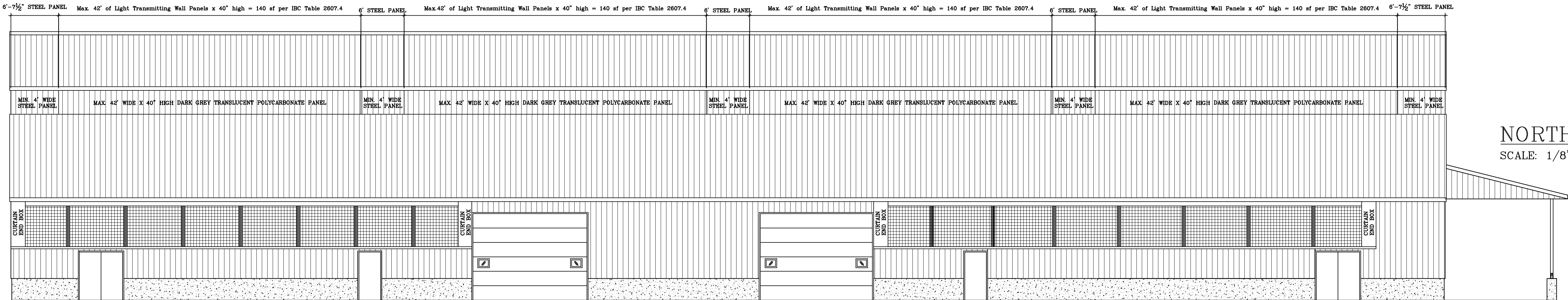
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



EAST ELEVATION

SCALE: 1/8" = 1'-0"



NORTH ELEVATION

SCALE: 1/8" = 1'-0"

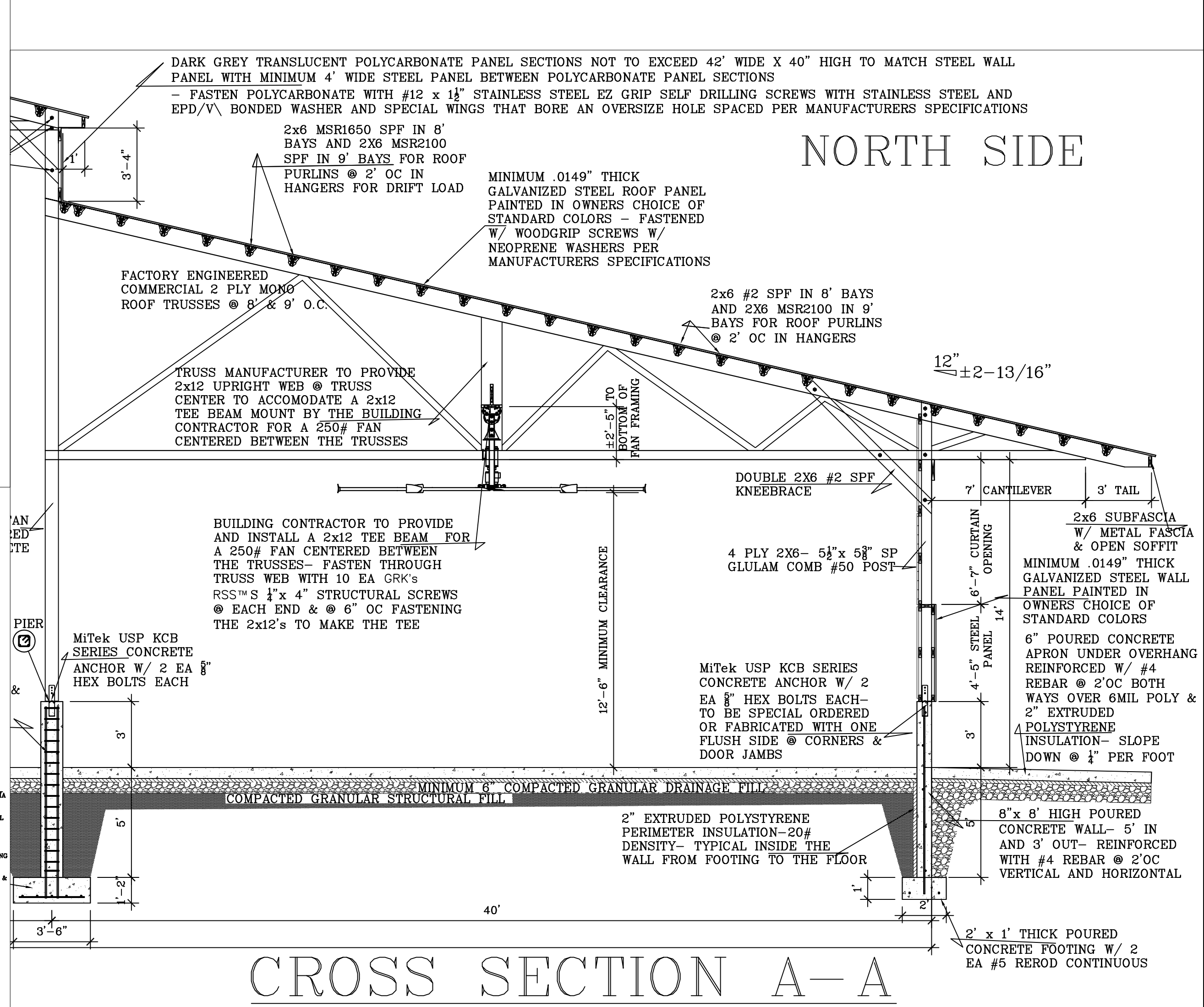
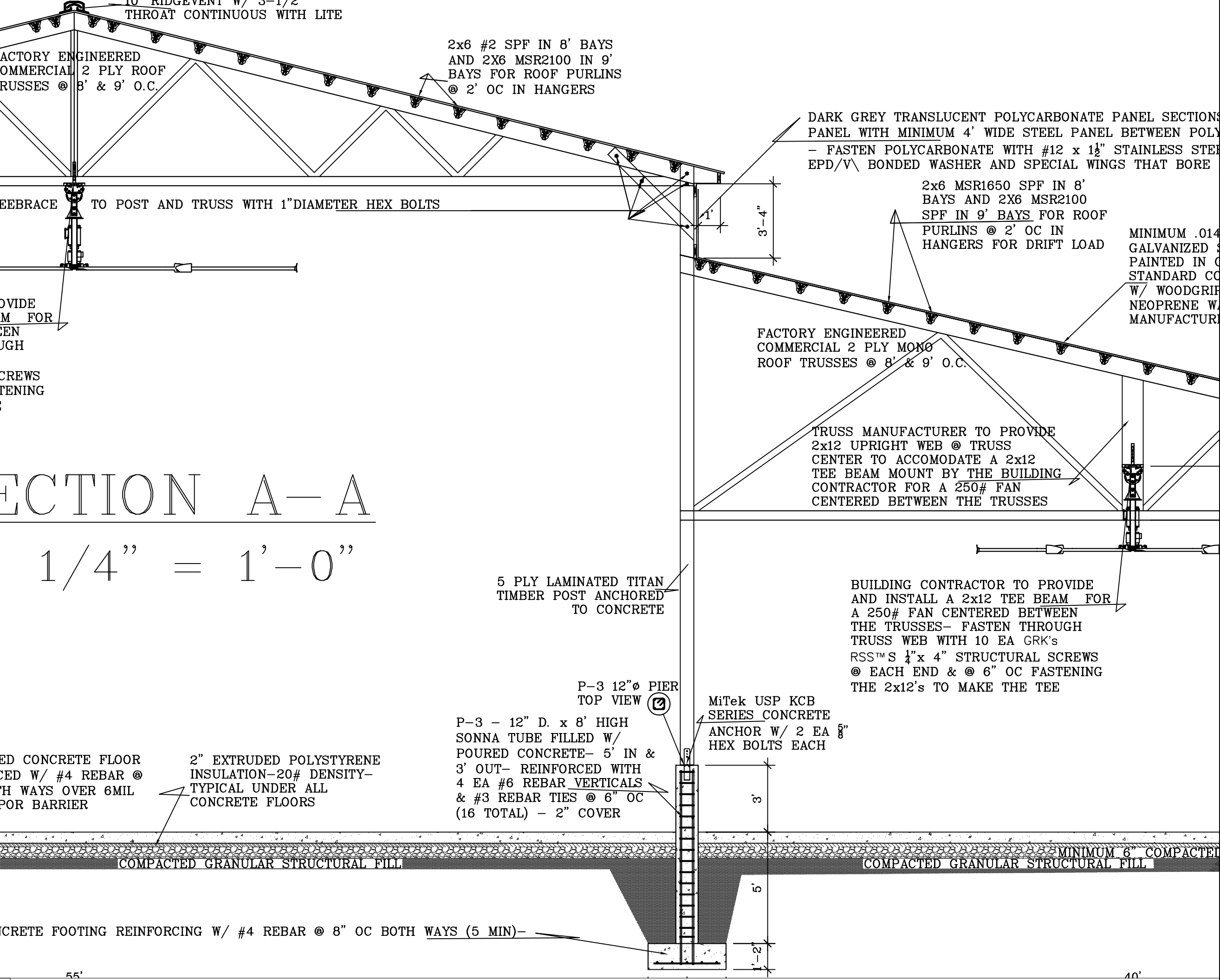
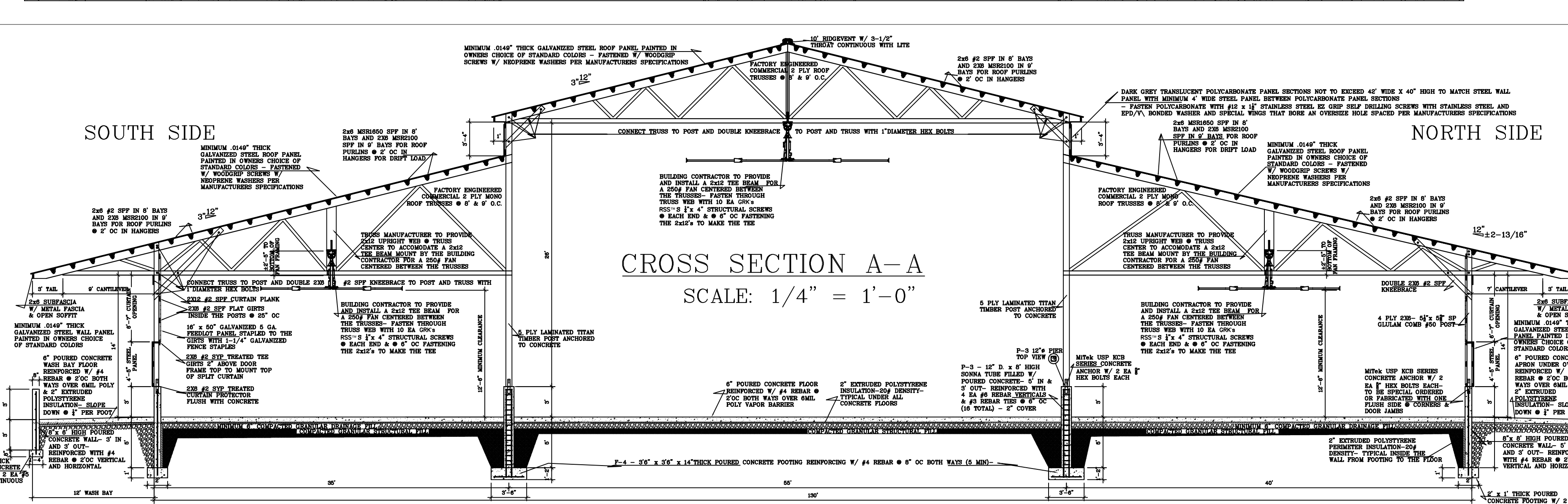
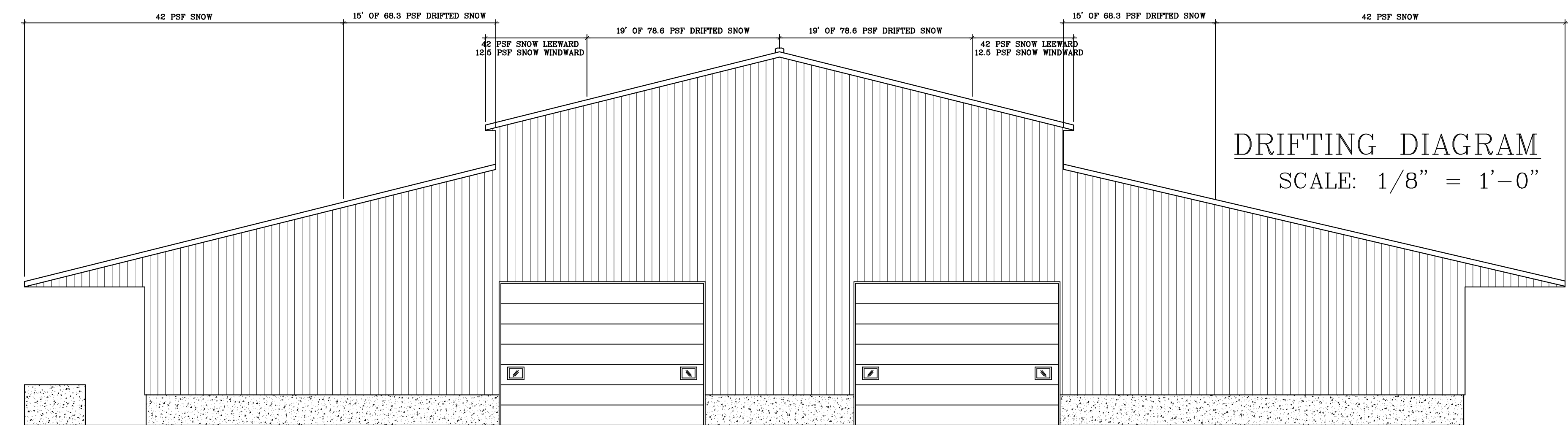
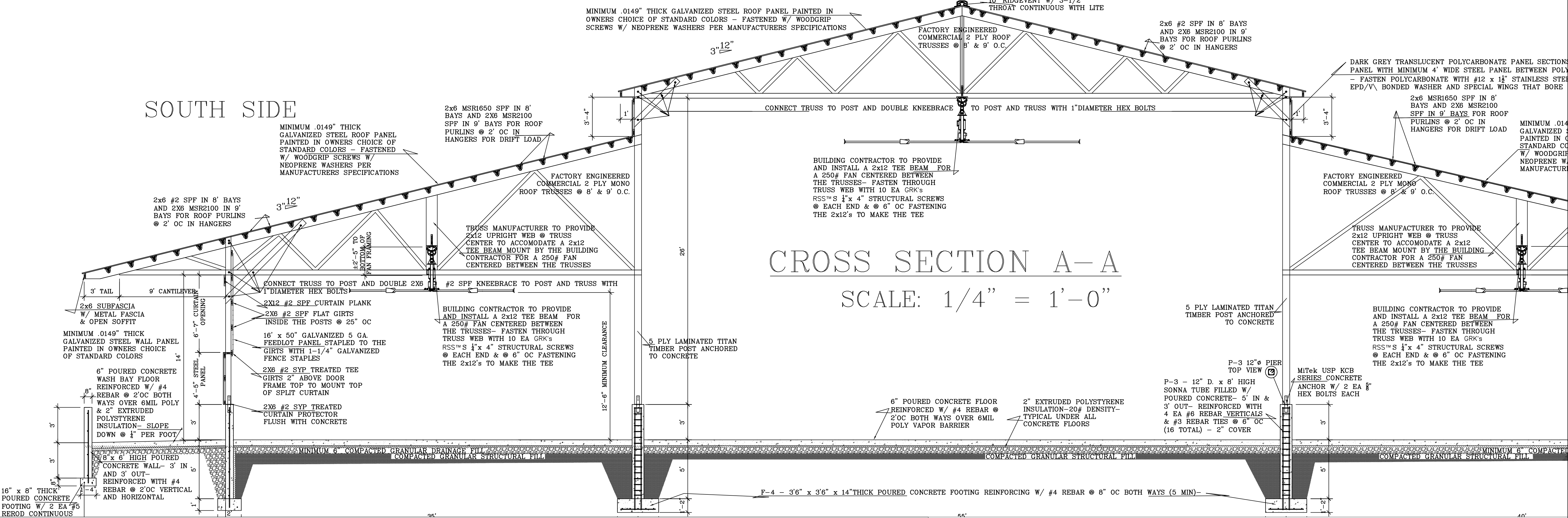
CONCRETE CONTRACTOR TO PROVIDE (10) TEN 16"W.x 16"H. OPENINGS ±12"± CENTERED AT FLOOR HEIGHT & POUR FLOOR OVER LEAVING 8-10" HIGH OPEN- SLOPE DOWN @ WALL SO WATER DRAINS OUT TO GRADE- SEE WASH-BAY WALL DRAINAGE DETAIL G

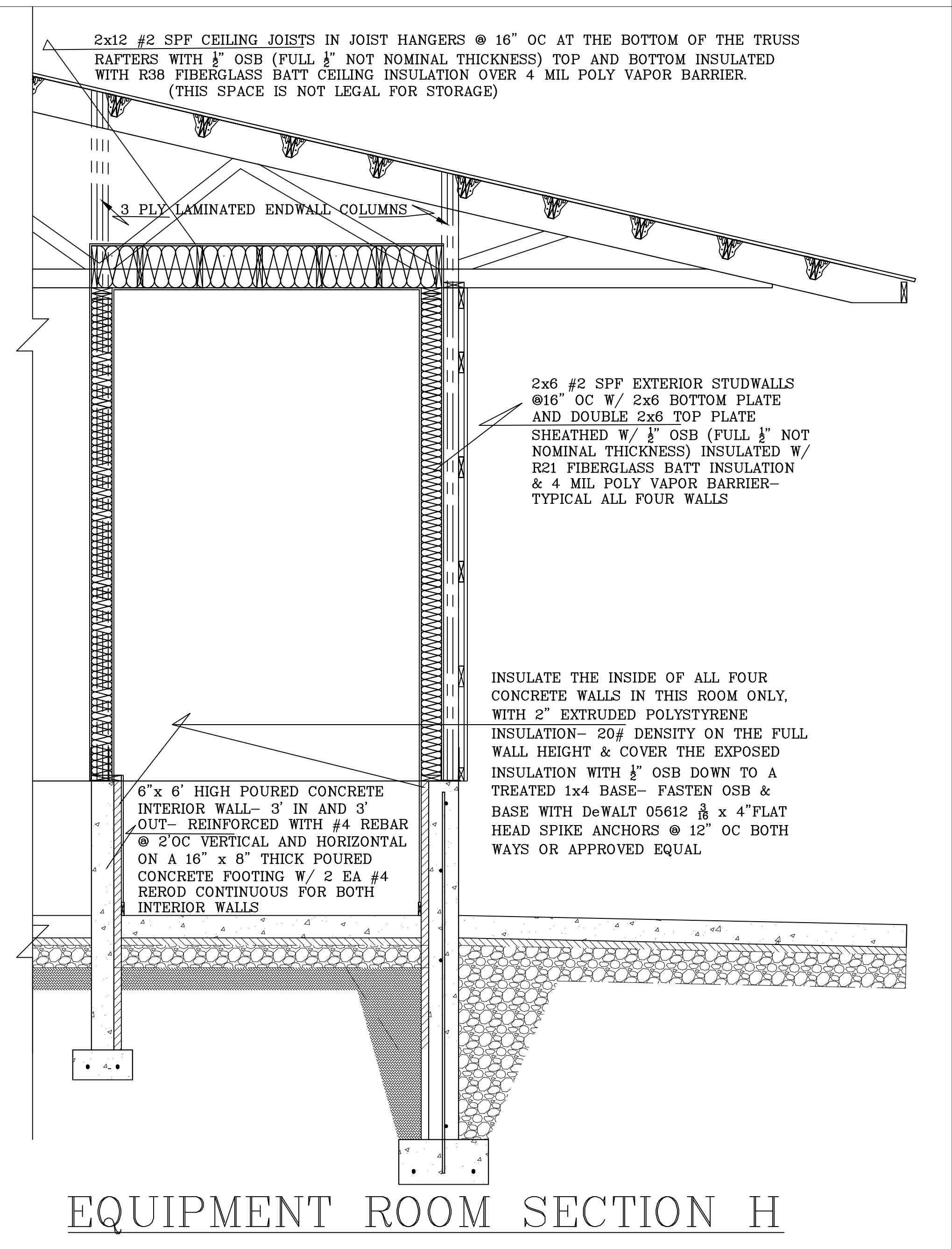
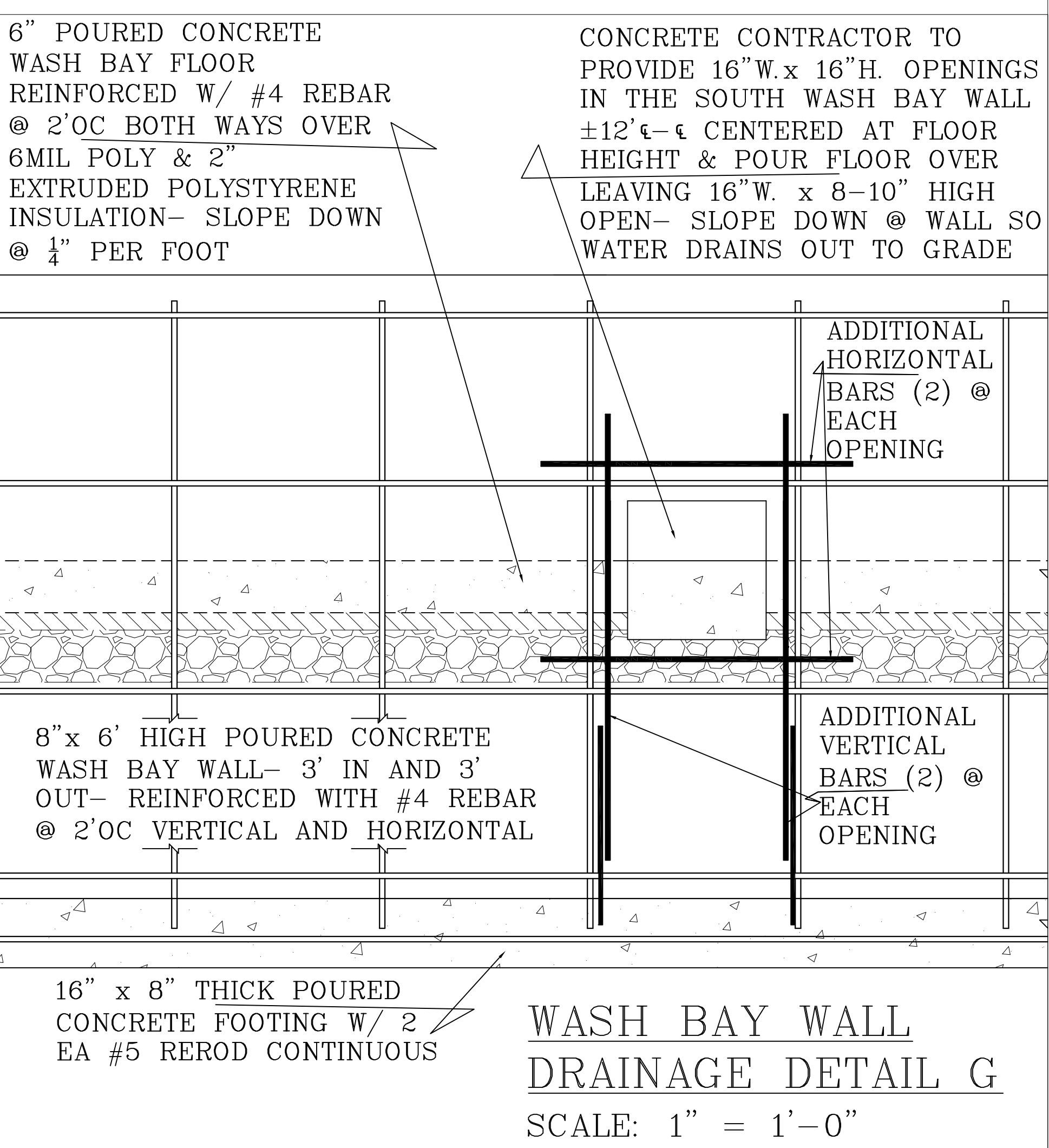
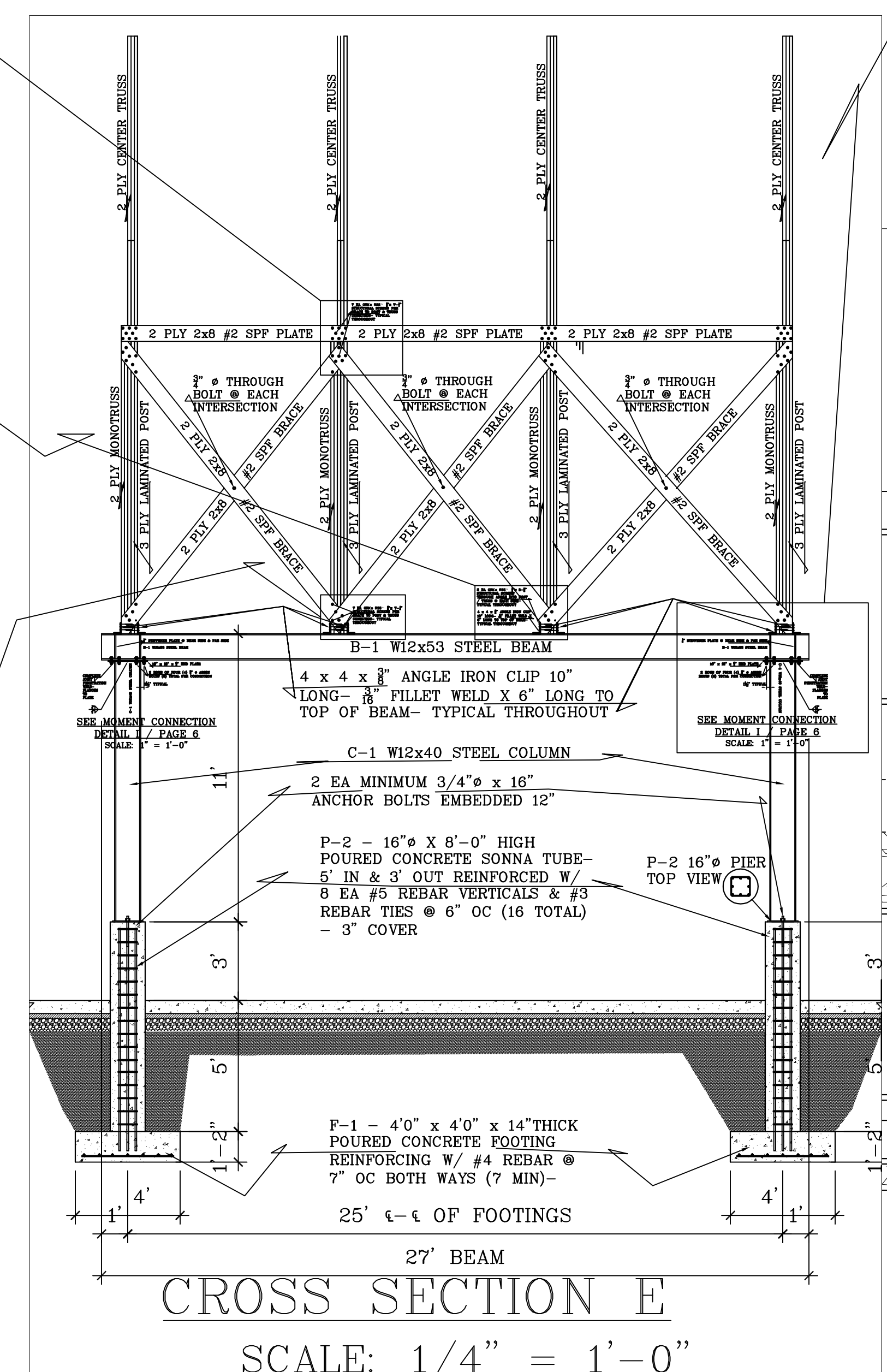
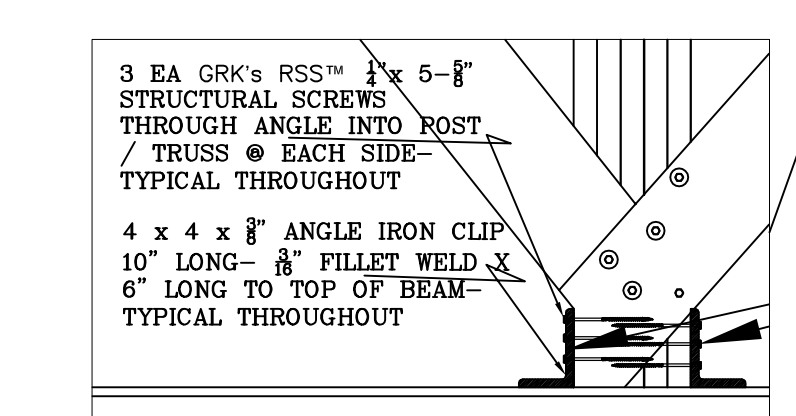
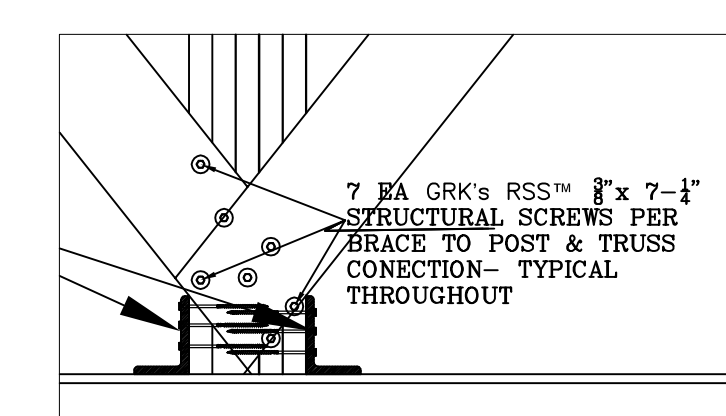
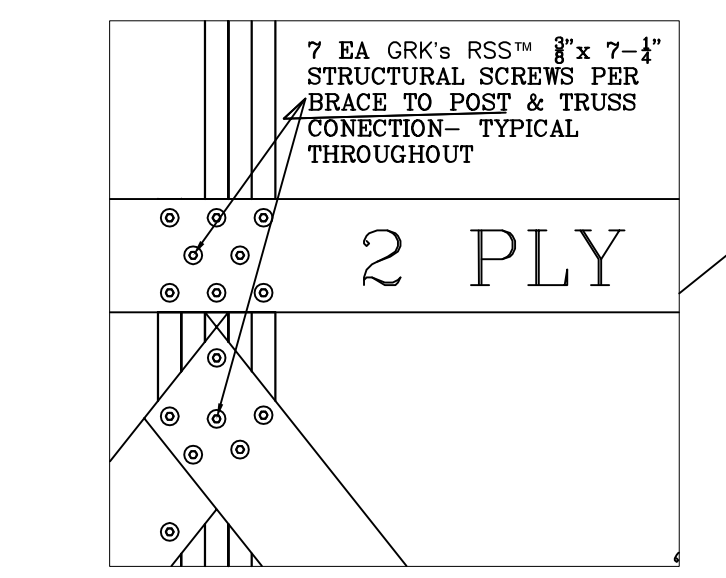
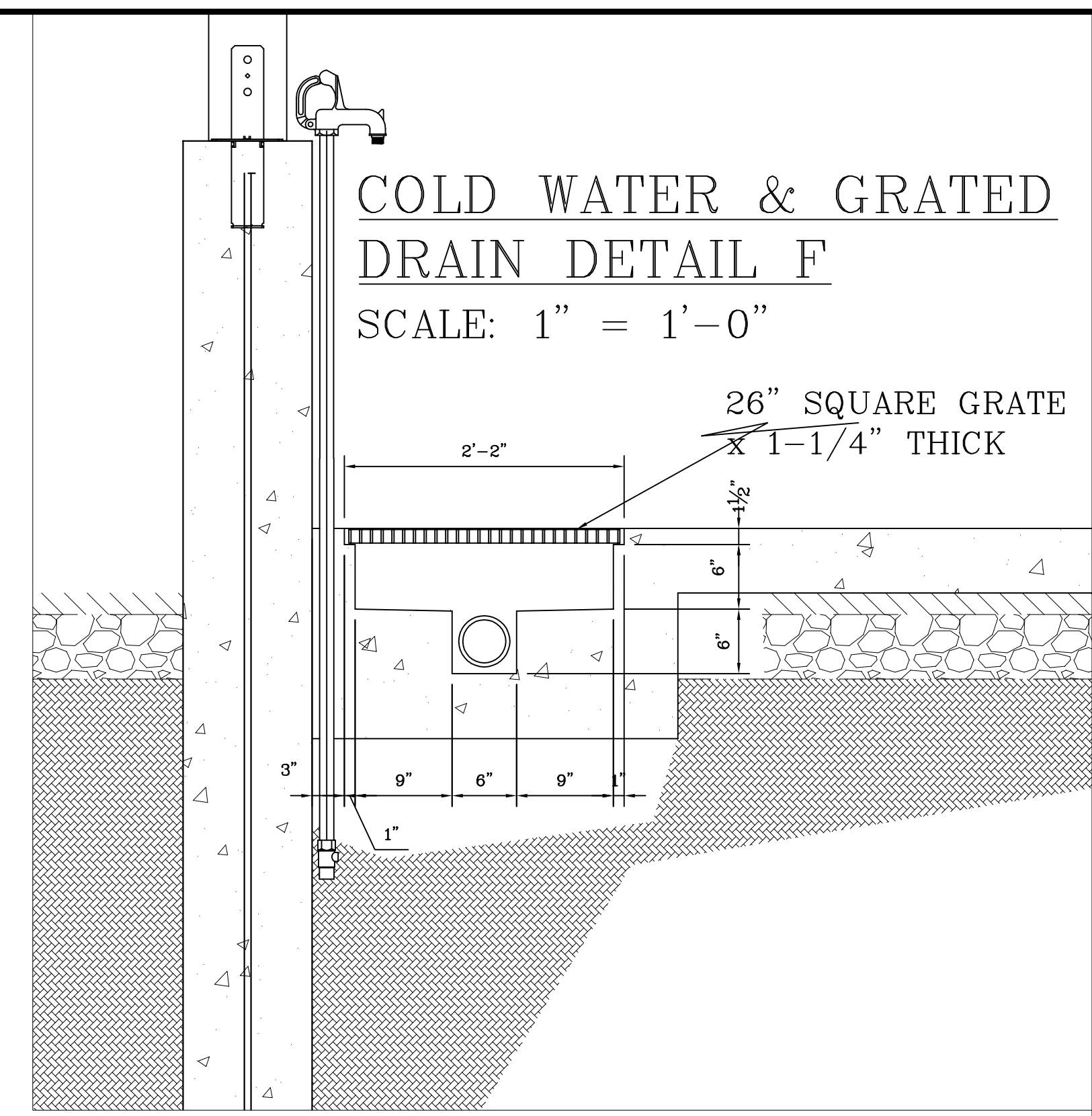
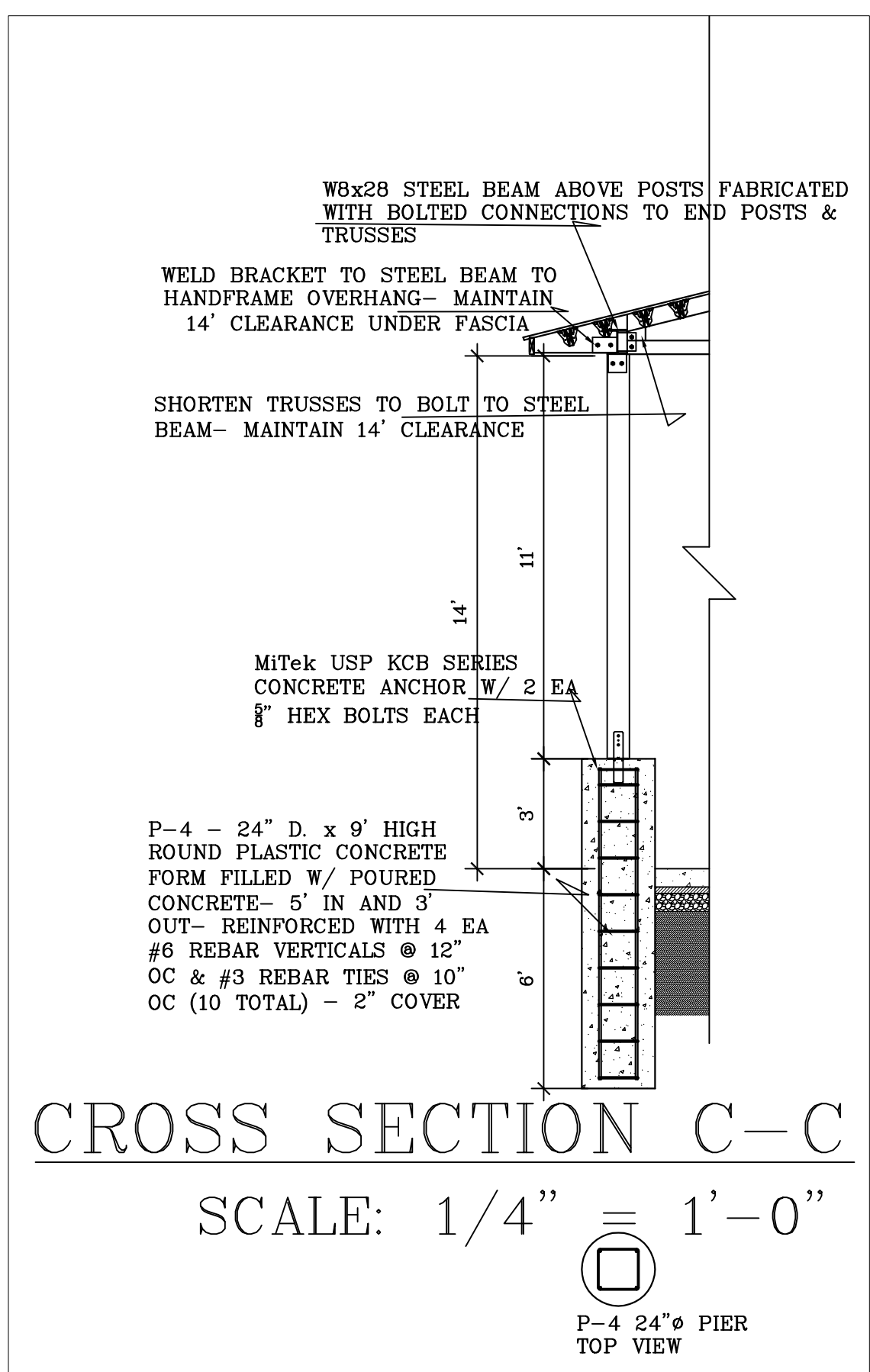
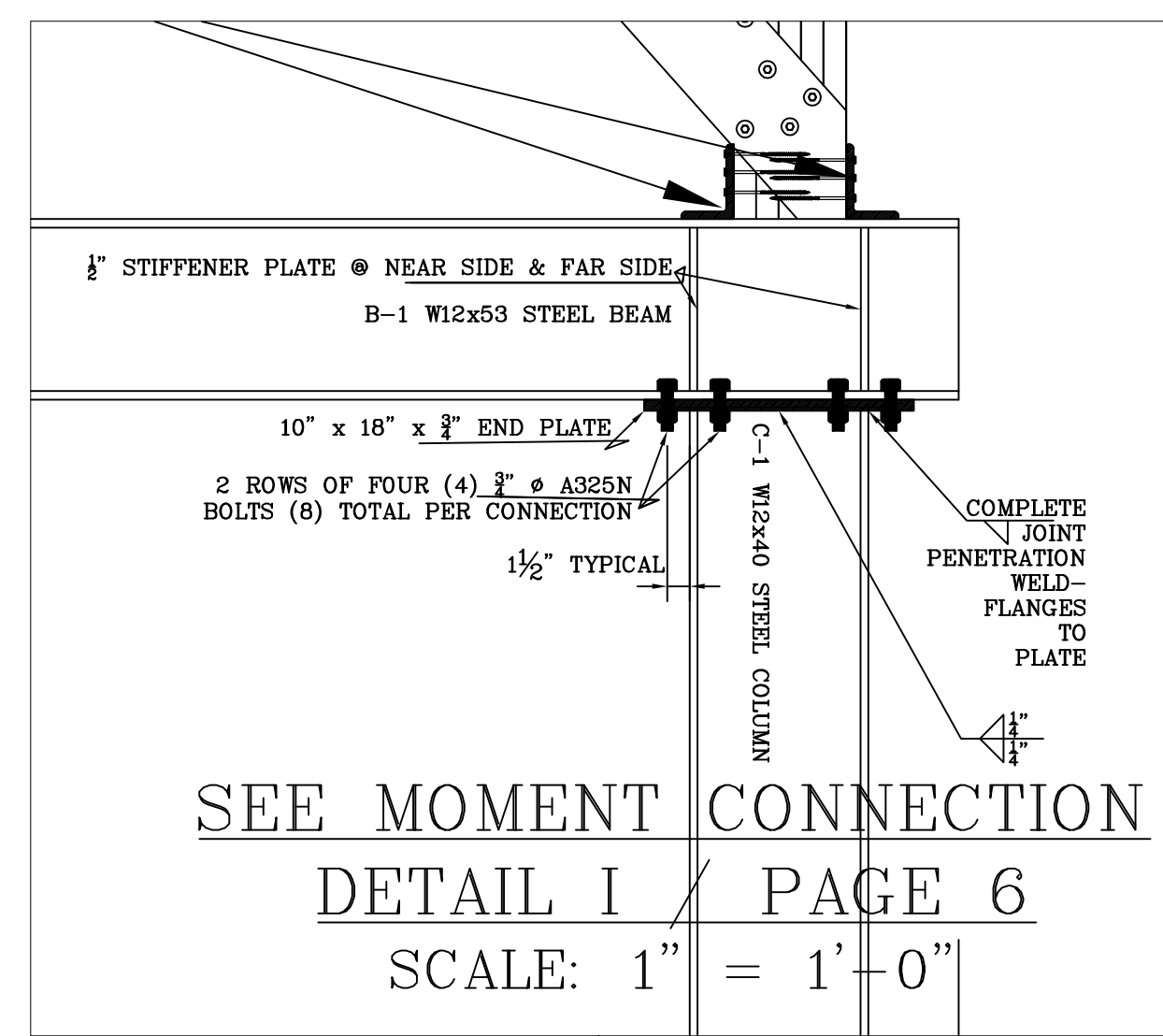
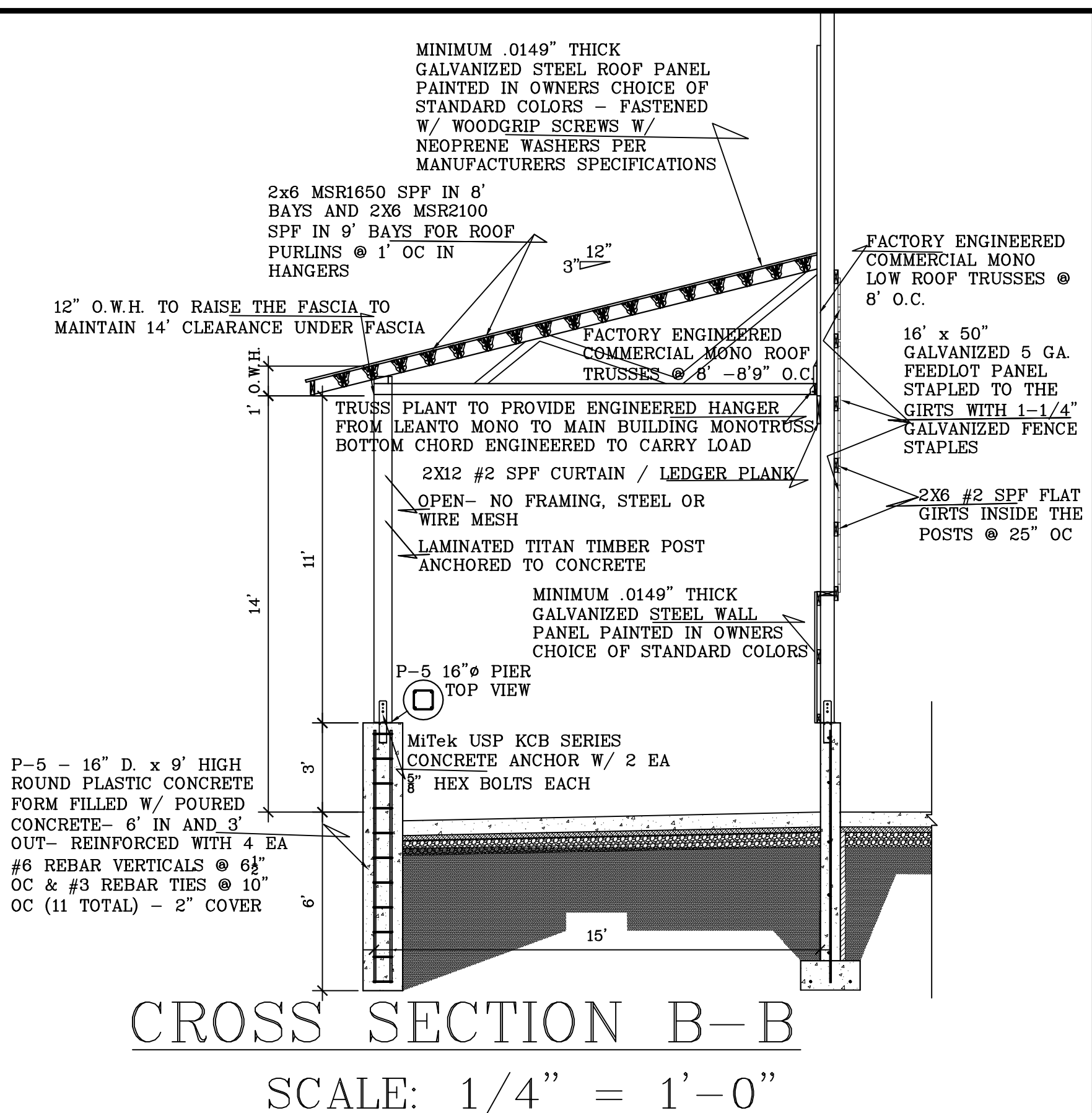
SCALE	Noted
DATE	15MAY18
NAME	BL
DWG. NO.	18-320
CADFILE	ClarkCounty ShowSale&Pen Building State Approval Plan 27aug19
REVISIONS	5SEP18 6SEP18 19SEP19 15OCT19 31OCT19 5NOV19 7NOV19 29NOV19 13FEB20

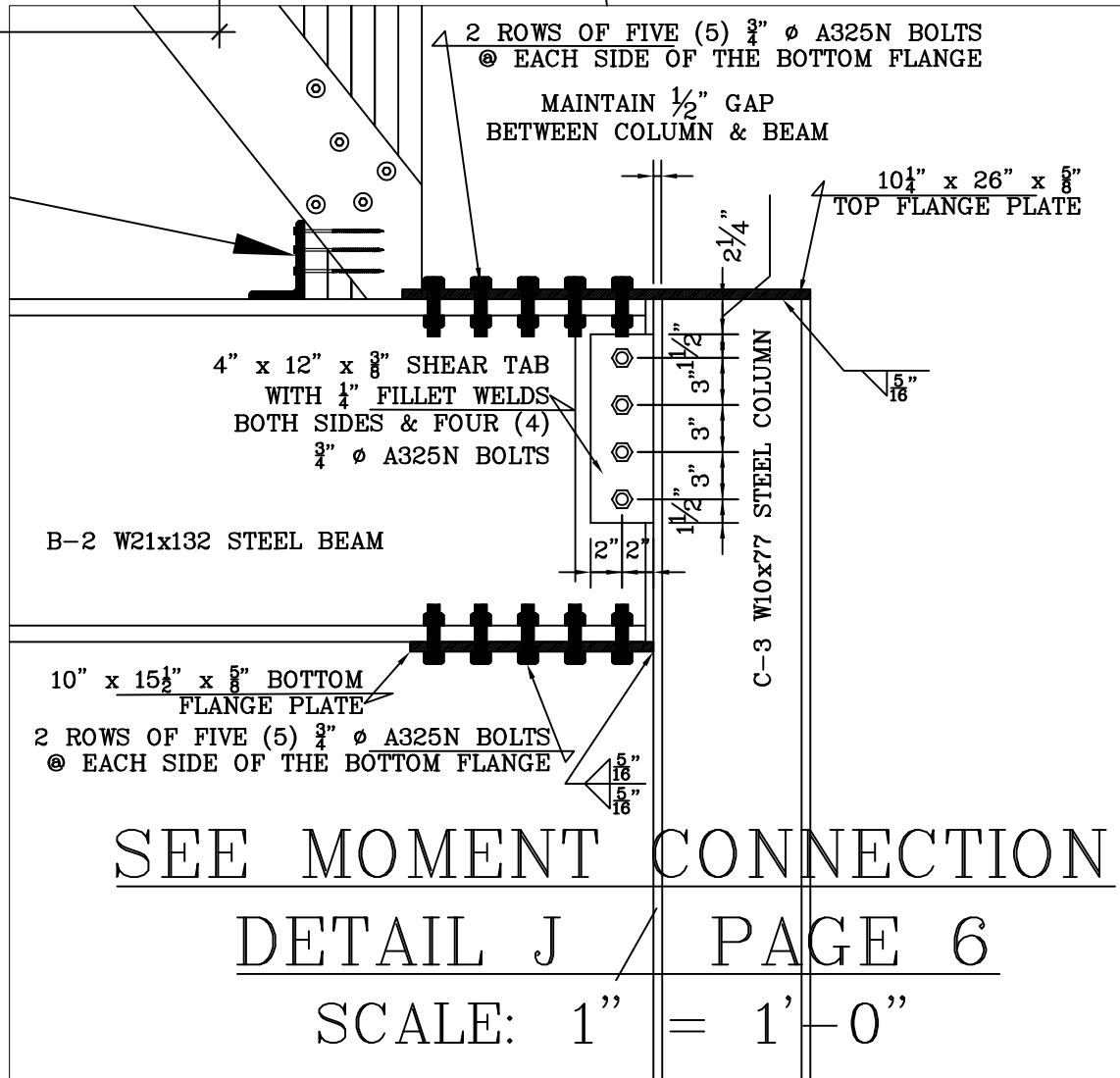
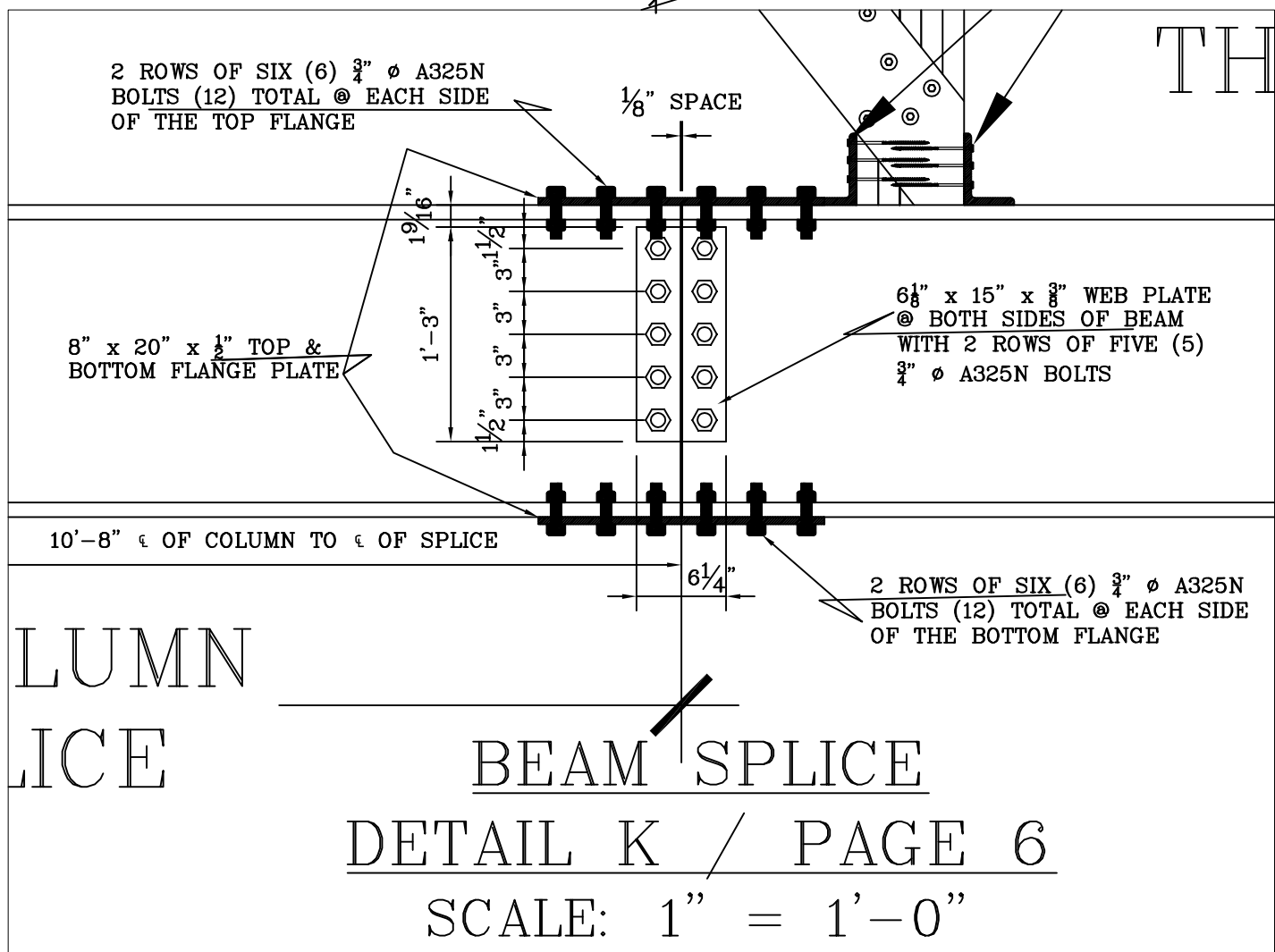
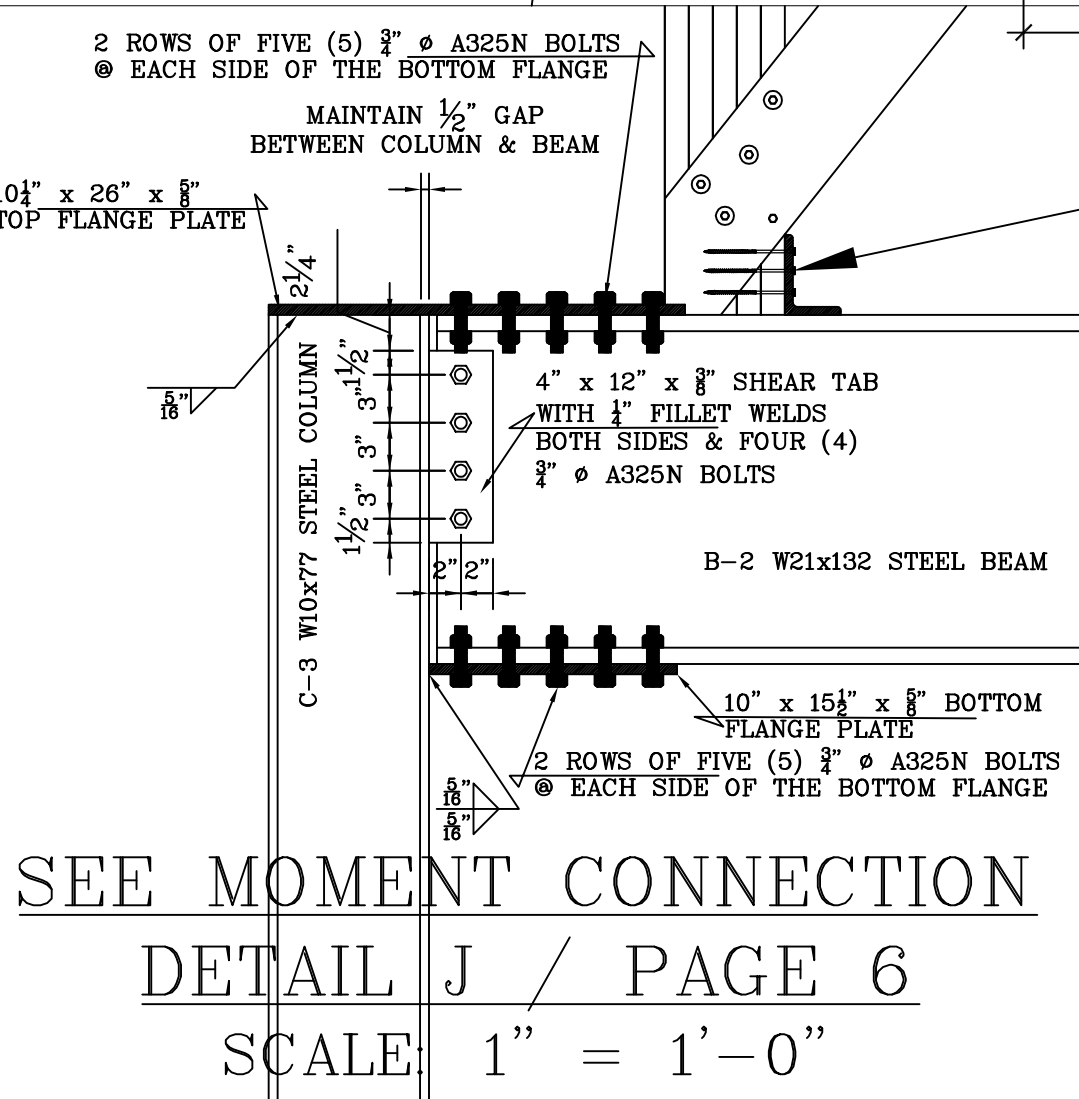
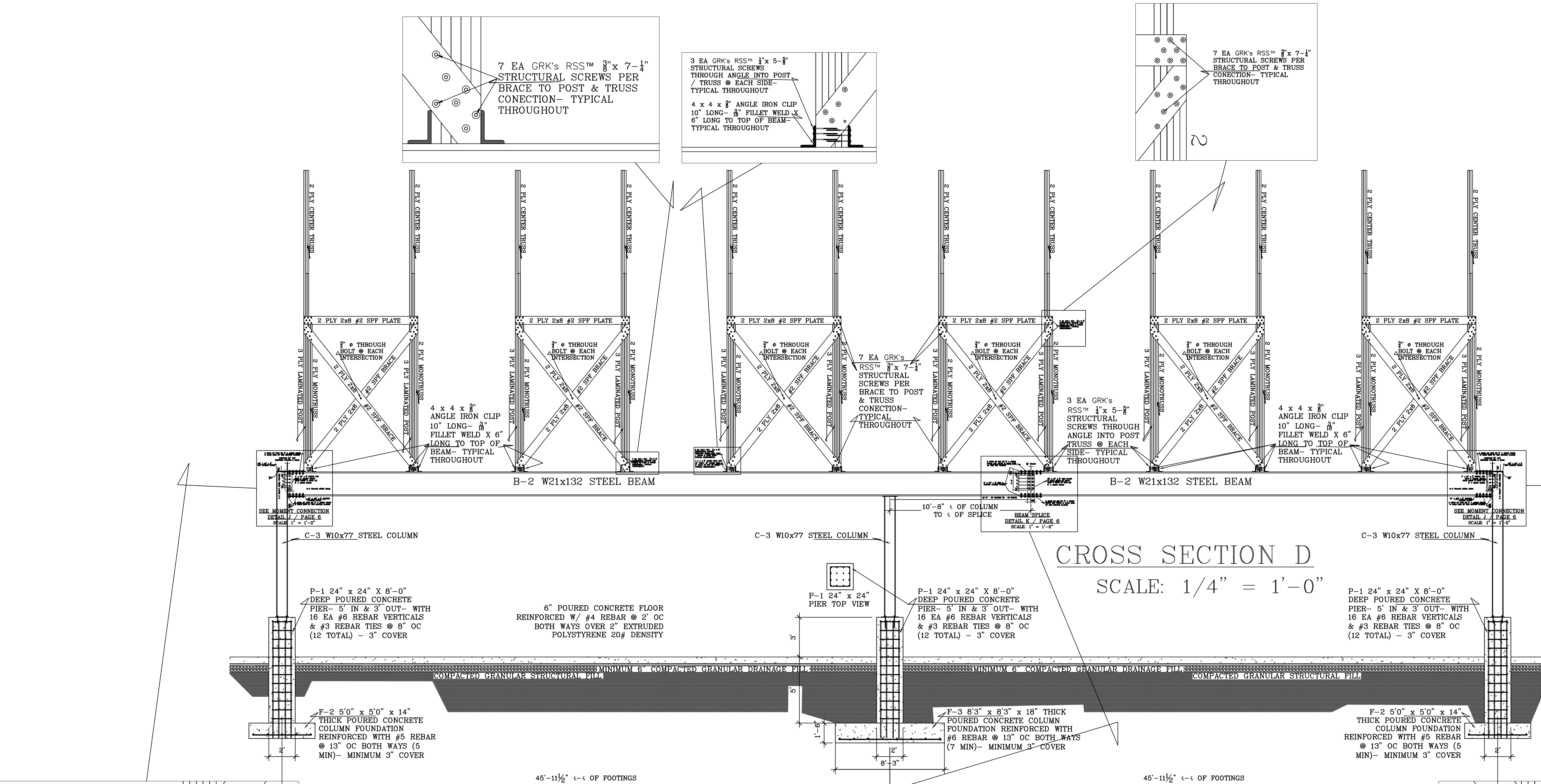
PROPOSED SHOW & SALE BARN FOR
CLARK COUNTY FAIRGROUNDS
1121 EAST DIVISION ST
NELLISVILLE WI 54456

BESTIMATE LLC
<http://bestimatellc.com>
714 E Ninth St
Marshfield, WI 54449









SCALE	Noted
DATE	15MAY18
NAME	BL
DWG. NO.	18-320
CADFILE	ClarkCounty ShowSale&Pen Building State Approval Plan 27aug19
REVISIONS	5SEP18 6SEP18 20sep19 15OCT19 31OCT19 4NOV19 7NOV19 29nov19 6FEB20 18FEB20

PROPOSED SHOW & SALE BARN FOR
CLARK COUNTY FAIRGROUNDS
1121 EAST DIVISION ST
NELLISVILLE WI 54456

BESTIMATE LLC
<http://bestimatellc.com>
714 E Ninth St
Marshfield, WI 54449

