



Black Break Metal —

— Black Break Metal









GENERAL NOTES

THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM, REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. THE BUILDING MANUFACTURER WILL ASSUME NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.

THIS METAL BUILDING IS DESIGNED WITH THE BUILDING MANUFACTURER'S STANDARD PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES AS APPLICABLE:

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
2. AMERICAN IRON AND STEEL INSTITUTE, SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
3. AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE AWS D1.1
4. METAL BUILDING MANUFACTURER'S ASSOCIATION, LOW RISE BUILDING SYSTEMS MANUAL
5. INTERNATIONAL CODE COUNCIL: INTERNATIONAL BUILDING CODE

ALL WELDING ELECTRODES SHALL BE A233 CLASS E-70 SERIES. MINIMUM WELDS ON PRIMARY STRUCTURAL MEMBERS SHALL BE 3/16 FILLET WELDS UNLESS SHOWN OTHERWISE ON SHOP FABRICATION DRAWINGS.

ALL STRUCTURAL STEEL SHALL BE SHOP FABRICATED UNLESS NOTED.

MATERIAL PROPERTIES OF STEEL PLATE AND SHEET USED IN THE FABRICATION OF PRIMARY RIGID FRAMES AND ALL PRIMARY STRUCTURAL FRAMING MEMBERS (OTHER THAN COLD-FORMED SECTIONS) CONFORM TO THE CHEMISTRY REQUIREMENTS OF ASTM-A36 WITH MINIMUM YIELD POINT OF 50,000 P.S.I. OR 36,000 P.S.I. AS REQUIRED BY DESIGN.

MATERIAL PROPERTIES OF COLD FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-570, GRADE 55, WITH A MINIMUM YIELD POINT OF 57,000 P.S.I.

ALL PIPE SHALL BE MINIMUM SCHEDULE 40 AND 36,000 P.S.I. UNLESS OTHERWISE NOTED.

CABLE BRACING TO BE "BRACE GRIP" SYSTEM AS MANUFACTURED BY FLORIDA WIRE AND CABLE COMPANY, EHS CABLE OR EQUAL. BRACING IN FLUSH GIRT SIDEWALL / ENDWALL BAYS MAY REQUIRE THE FIELD CUTTING OF SLOTS SO THAT CABLE IS INSTALLED WITHIN GIRTS.

STRUCTURAL JOINTS WITH A.S.T.M. A-325 HIGH STRENGTH BOLTS, WHERE INDICATED ON THE DRAWINGS, SHALL BE ASSEMBLED AND THE FASTENERS TIGHTENED IN ACCORDANCE WITH "SNUG-TIGHT" METHOD AS DESCRIBED IN THE SPECIFICATION FOR STRUCTURAL JOINTS USING A.S.T.M. A-325 OR A-490 BOLTS (JUNE 30, 2004 EDITION). UNLESS OTHERWISE NOTED. ALL JOINTS WILL BE ASSEMBLED WITHOUT WASHERS UNLESS OTHERWISE NOTED.

ALL STEEL MEMBERS EXCEPT BOLTS AND FASTENERS SHALL RECEIVE ONE SHOP COAT OF IRON OXIDE CORROSION INHIBITIVE PRIMER.

SHOP AND FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

UNLESS OTHERWISE NOTED, ALL SCREWED-DOWN ROOF AND WALL PANELS ARE TO BE INSTALLED USING A MINIMUM OF ONE SCREW PER FOOT AT EACH PURLIN / GIRT AND ONE STITCH SCREW EVERY 24 INCH ALONG THE PANEL LAPS AND ENDS AS DESCRIBED IN THE INSTALLATION MANUAL. SINCE BEARING FRAME ENDWALLS DEPEND ON DIAPHRAGM STRENGTH TO PROVIDE LATERAL SUPPORT, THE NUMBER AND SIZE OF FIELD INSTALLED OPENINGS IN THESE WALLS MAY BE LIMITED. SEE THE APPLICABLE WALL DRAWING OR CONTACT YOUR SALES REPRESENTATIVE FOR MORE INFORMATION.

BUILDING DESCRIPTION

BLDG	WIDTH	LENGTH	HEIGHT	ROOF PITCH	
				BACK	FRONT
1	50'-0"	X 99'-0"	X 20'-0"	1.00:12	1.00:12

WARRANTY NOTE

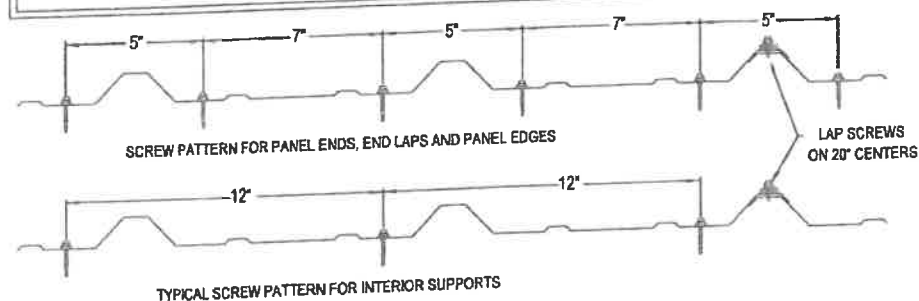
ENGINEERING CALCULATIONS AND DESIGN ARE BASED ON PRE-FABRICATED METAL BUILDING(S) AS SHOWN IN THESE DRAWINGS AND SUPPLIED BY MUELLER, INC. AND ANY FIELD FABRICATION AND/OR MODIFICATION OF SAID BUILDING(S) IS THE SOLE RESPONSIBILITY OF THE CUSTOMER AND MAY VOID ALL ENGINEERING AND WARRANTY.

TDI WINDSTORM INSPECTION PROGRAM

This building as supplied by Mueller, Inc. is designed to meet or exceed the wind loading criteria set forth in the IBC 2006 Edition as required by the Texas Dept. of Insurance's Windstorm Inspection Program. In order to maintain the integrity of this design, no field fabrication nor modification is allowed. All exterior openings (doors, window, skylights, vents, etc.) shall contain products designed and installed to comply with the Uniform Static Wind Pressure and Impact Resistance requirements set forth by the Texas Dept. of Insurance. Use of any coverings not rated to meet this criteria will void all engineering and warranty.

FASTENER SPACING:

A line of fasteners in a 5"-7"-5"-7"-5" pattern shall be used at all panel ends, end laps, and panel edges when attached to the rake, base, roof or wall purlin and eave struts. Panel side laps should have lap screws spaced at 20" on center along the entire length of the panel lap.



PRODUCT CERTIFICATIONS

THIS IS TO CERTIFY THE ABOVE REFERENCED BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH A.I.S.C. AND A.I.S.I. DESIGN PROCEDURES AND GOOD ENGINEERING PRACTICE AND FOR THE FOLLOWING LOADS. ALL WELDING IS PER THE A.W.S. D1.1 & D1.3 CODES. LOADS ARE APPLIED IN ACCORDANCE WITH THE M.B.M.A. LOW RISE BUILDING SYSTEMS MANUAL, AND THE DESIGN SATISFIES THE REQUIREMENTS OF IBC'12.

DEAD LOAD: METAL BLDG STRUCTURE ONLY AS FURNISHED BY MUELLER, INC.

LIVE LOAD (ROOF): 20.0 (psf) GROUND SNOW LOAD: $P_g = 0.0$ (psf)

LIVE LOAD REDUCED PER CODE? YES ROOF SNOW LOAD (Flat): $P_r = 0.0$ (psf)

WIND EXPOSURE: C $C_e = 1.0$ $I_s = 1.0$

RISK CATEGORY: II - Normal WIND LOAD: $V_{ULT} = 141.0$ MPH
 $V_{ASD} = 109$ MPH

SEISMIC LOADS

$I_e = 1.0$ SEISMIC DESIGN CATEGORY: B

$S_s = 0.080$ $S_{ds} = 0.085$ SITE CLASS: D

$S_1 = 0.043$ $S_{d1} = 0.069$ ANALYSIS PROCEDURE: Equivalent Lateral Force Method

BUILDING-SPECIFIC LOADING INFORMATION

BLDG	Collateral Load (psf)	C_t	SNOW C_s	Roof (Sloped) P_s (psf)	WIND Enclosure	GC_{Pf}	R	SEISMIC	
								C_s	V (kips)
1	0.5	1.0	1.0	0.00	Enclosed	± 0.18	3.25	0.026	0.81

THIS LETTER OF CERTIFICATION APPLIES SOLELY TO THIS BUILDING AND ITS COMPONENT PARTS AS FURNISHED AND/OR FABRICATED BY MUELLER, INC. AND SPECIFICALLY EXCLUDES FOUNDATION, MASONRY OR GENERAL CONTRACT WORK INCLUDING ERECTION CERTIFICATION. THE DESIGN AND CERTIFICATION FOR THIS PROJECT IS IN ACCORDANCE WITH THE PROVISIONS AND LOADS SPECIFIED ON THE CONTRACT DOCUMENTS. THE CUSTOMER IS TO INSURE ALL LOADS ARE IN COMPLIANCE WITH LOCAL REGULATORY AUTHORITIES. ALL COMPONENTS AND PARTS MUST WITHSTAND THE WIND LOAD AND DESIGN SPECIFICATIONS MENTIONED ABOVE.

PANEL ACCESSORY INFORMATION

	PANEL TYPE	PANEL COLOR	TRIM COLOR
WALL SHEETS	126 PBR	GP Galvalume Plus	BLK Black
ROOF SHEETS	126 PBR	GP Galvalume Plus	BLK Black

WARNING: IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

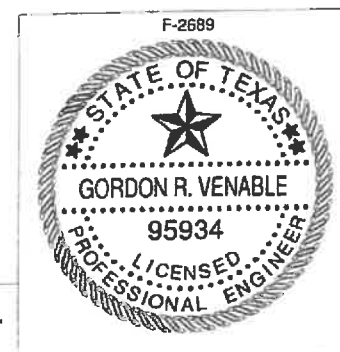
NOTE:
THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ANY ACCESSORIES USED WITH THIS BUILDING (DOORS, WINDOWS, VENTS, ETC.) MUST BE RATED TO MEET THE SAME WIND CRITERIA AS THIS BUILDING.

Legend

PART MARK = Part001

DRAWING INDEX

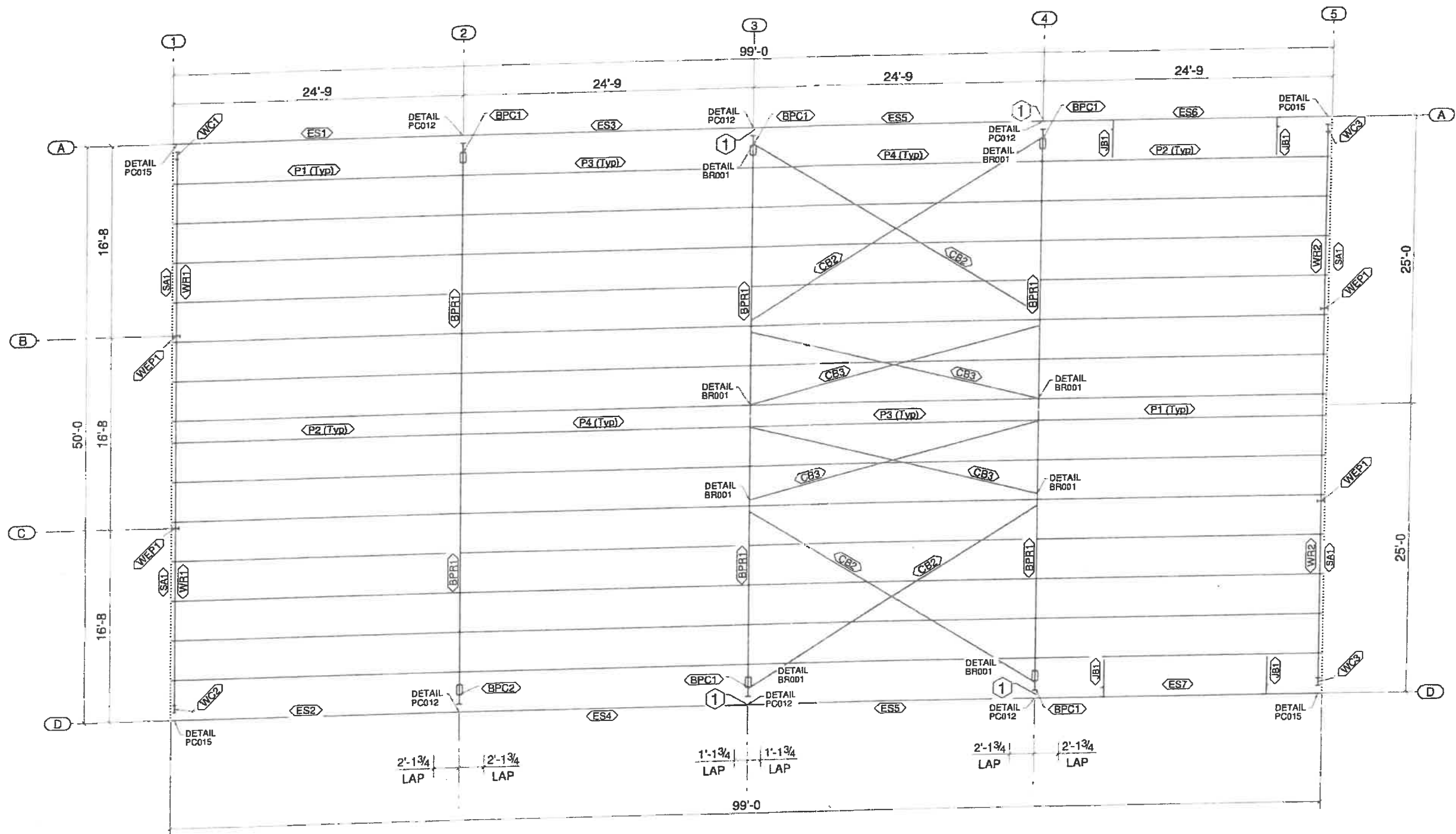
PAGE	DESCRIPTION
C1	COVERSHEET
AB1	ANCHOR BOLT PLAN
AB2	ANCHOR BOLT DETAILS
AB3	ANCHOR BOLT DETAILS
AB4	REACTIONS
E1	ROOF PLAN
E2	WALL ELEVATION AT GRID D
E3	WALL ELEVATION AT GRID A
E4	WALL ELEVATION AT GRID 1
E5	WALL ELEVATION AT GRID 5
E6	FRAME ELEVATION ON GRID 2
E7	FRAME ELEVATION ON GRID 3
E8	FRAME ELEVATION ON GRID 4
E101	ERECTION DETAILS
E102	ERECTION DETAILS
E103	ERECTION DETAILS
S101	SHEETING DETAILS



NOTE: THE UNDERSIGNED ENGINEER IS NOT THE "REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE" NOR "ENGINEER OF RECORD" FOR THE OVERALL PROJECT.

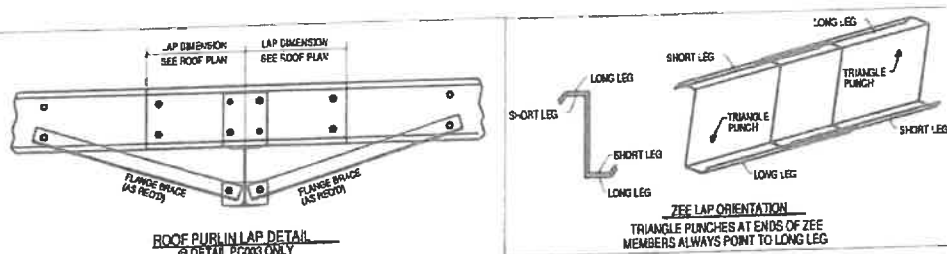
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REV	DATE	DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: COVERSHEET		
SALESMAN: JACOB KENNA	BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"	ROOF SLOPE: 1.00:12
CUSTOMER NAME: FLOODMASTER	ADDRESS: BEAUMONT, TX 77705	SCALE: NONE
DETAILER: TMR	CHECKER:	DATE:
JOB # 5031537	DWG # C1	REV: 0

Special Bolts - Roof Plan				
O ID	Qty	Type	Dia	Length
1	4	A325N	1/2"	1 1/2"

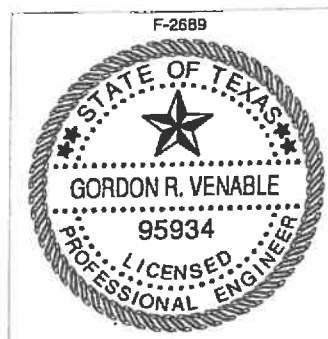


ROOF PLAN

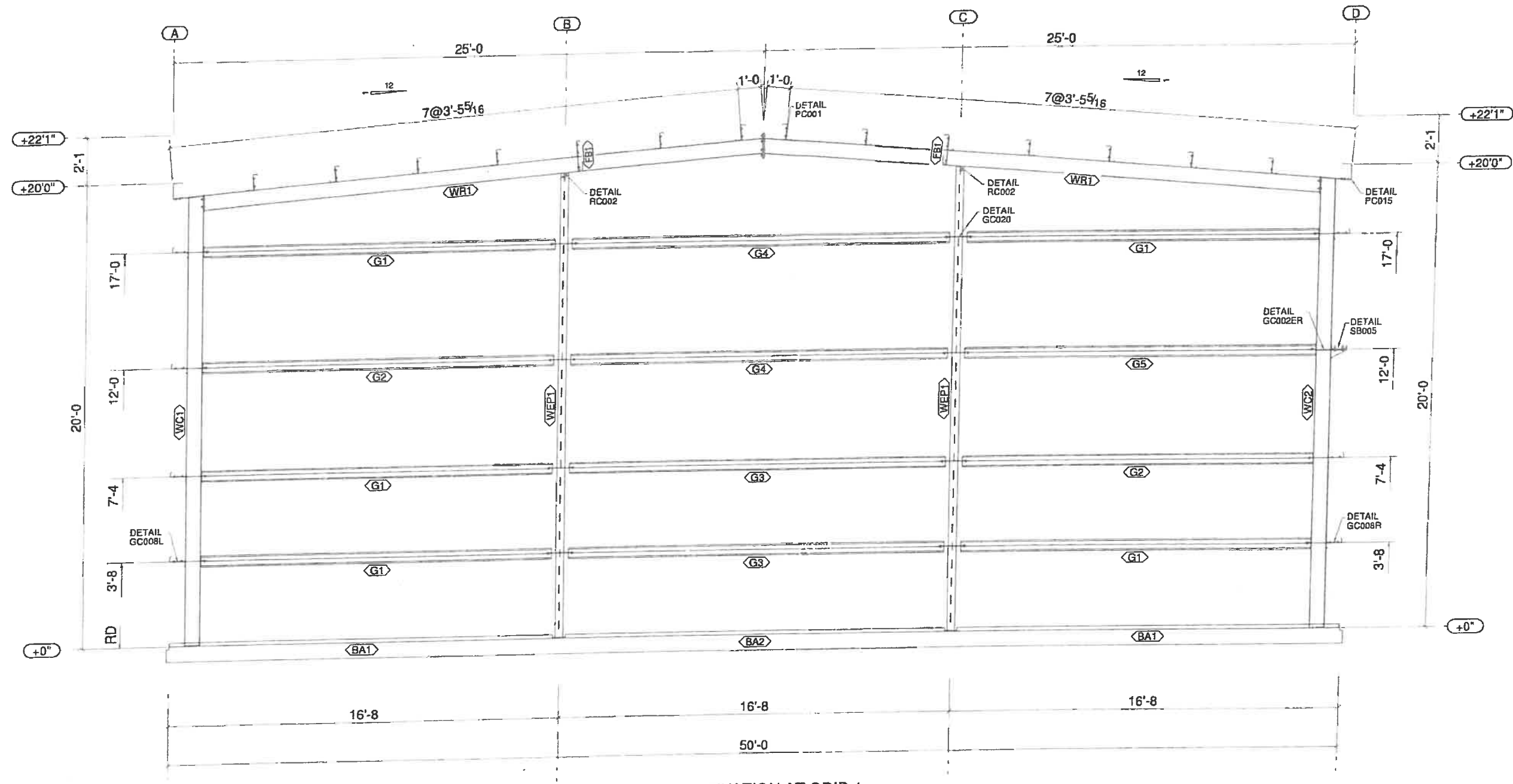
Bill of Materials			
Qty	Mark	Profile	Length
4	CB2	CB5/16D	27'-3 13/16"
4	CB3	CB1/4D	23'-8 9/16"
1	ES1	81E12DU-1	24'-8 1/2"
1	ES2	81E12DU-1	24'-8 1/2"
1	ES3	81E12DU-1	24'-8 1/2"
1	ES4	81E12DU-1	24'-8 1/2"
2	ES5	81E12DU-1	24'-8 1/2"
1	ES6	81E14DU-1	24'-8 1/2"
1	ES7	81E14DU-1	24'-8 1/2"
14	P1	8X25Z14	26'-10 1/2"
14	P2	8X25Z14	26'-10 1/2"
14	P3	8X25Z16	28'-0 1/2"
14	P4	8X25Z16	28'-0 1/2"
4	SA1	L4X2X14GA	25'-0 9/16"



DJB



0	For Construction
REV	DATE DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 327-1087	
DRAWING DESCRIPTION: ROOF PLAN	
SALESMAN: JACOB KENNA	BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"
CUSTOMER NAME: FLOODMASTER	ADDRESS: BEAUMONT, TX 77705
DETAILER: TMR	CHECKER: DATE: JOB # 5031537
	DWG # E1
	0



WALL ELEVATION AT GRID 1

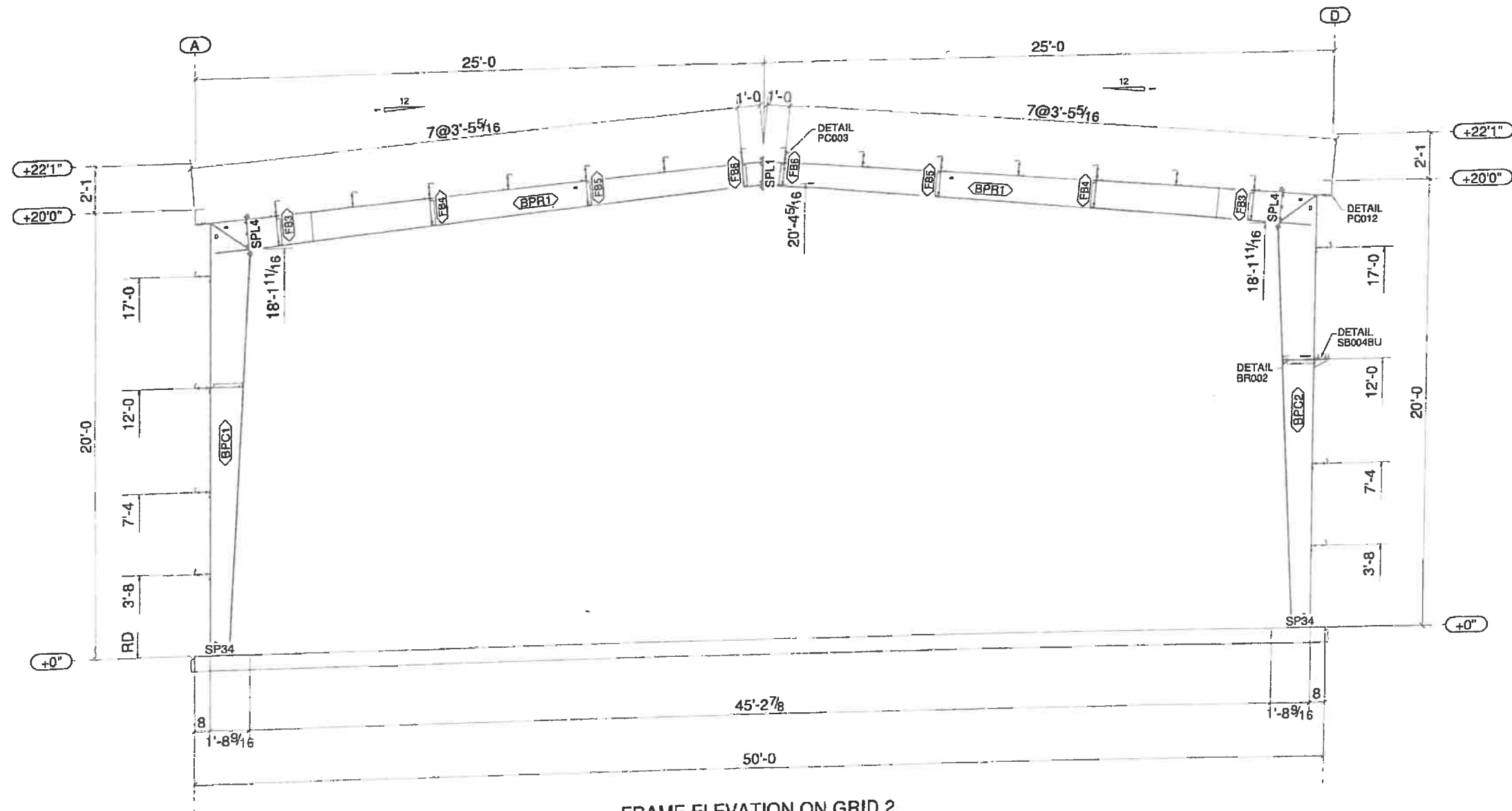
Bill of Materials			
Qty	Mark	Profile	Length
1	WC1	W8X10	
1	WC2	W8X10	
2	WEP1	W8X10	
2	WR1	W8X10	
2	BA1	L4X2x14GA	16'-4 1/2"
1	BA2	L4X2x14GA	16'-1 1/2"
2	FB1	2X2L12	2'-6"
5	G1	8X25Z16	14'-11 9/16"
2	G2	8X25Z14	14'-11 9/16"
2	G3	8X25Z16	15'-11 5/16"
2	G4	8X25Z14	15'-11 5/16"
1	G5	8X25Z14	14'-11 9/16"

DJB

ALL ENDWALL COLUMNS AND JAMBS ARE DESIGNED AS "POSTS" AS DEFINED BY OSHA AND ARE NOT INTENDED TO BE CLIMBED ON UNTIL FULLY BRACED.



0	For Construction
REV	DATE DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 327-1087	
DRAWING DESCRIPTION: WALL ELEVATION AT GRID 1	
SALESMAN:	BUILDING DESCRIPTION:
JACOB KENNA	50'-0" X 99'-0" X 20'-0"
CUSTOMER NAME:	ADDRESS:
FLOODMASTER	BEAUMONT, TX 77705
DETAILER:	JOB #
TMR	5031537
CHECKER:	DWG #
	E4
DATE:	REV.
	0



FRAME ELEVATION ON GRID 2

BUILT UP MEMBER TABLE				
Mark	Type	Thick x Max Width x Length		
BPC1	WB	SHT10GAX20" x 233 3/8"		
	IF	PL5/16"x6" x 213 3/4"		
	OF	PL1/4"x6" x 231 13/16"		
BPC2	WB	SHT10GAX20" x 233 3/8"		
	IF	PL5/16"x6" x 213 3/4"		
	OF	PL1/4"x6" x 231 13/16"		
BPR1	WB	SHT10GAX15 1/2" x 240"		
	IF	PL5/16"x6" x 38 5/8"		
	IF	PL5/16"x6" x 233"		
	OF	PL5/16"x6" x 38 5/8"		
	OF	PL5/16"x6" x 234"		
	WB	SHT10GAX16" x 32 5/8"		

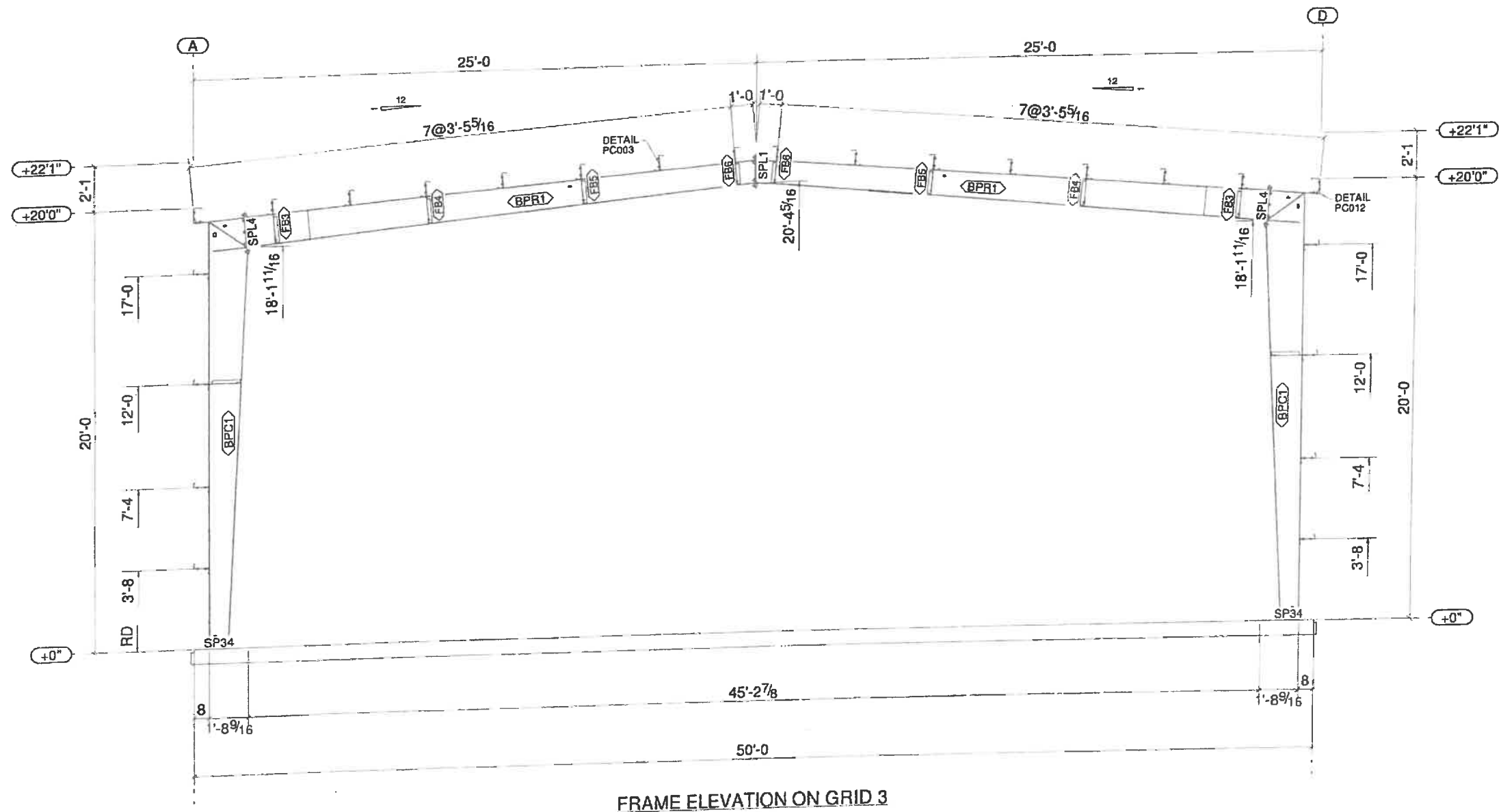
Bill of Materials			
Qty	Mark	Profile	Length
1	BPC1	SHT10GAX20"	
1	BPC2	SHT10GAX20"	
2	BPR1	SHT10GAX15 1/2"	
4	FB3	2X2L12	2'-9 9/16"
4	FB4	2X2L12	2'-8 15/16"
4	FB5	2X2L12	2'-8 3/8"
4	FB6	2X2L12	2'-7 13/16"

Connection Plate and Bolt Table		
Mark	Plate Profile	Bolt Description
REF. AB PLAN		
SP34	PL1/2"x6" x 10 1/2"	8 ~ 3/4" x 2 1/2" A325N
SPL1	PL1/2"x6" x 18 1/2"	10 ~ 3/4" x 2 1/2" A325N
SPL4	PL5/8"x6" x 23"	10 ~ 3/4" x 2 1/2" A325N
SPL4	PL5/8"x6" x 23"	10 ~ 3/4" x 2 1/2" A325N

DJB



0	For Construction
REV	DATE DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087	
DRAWING DESCRIPTION: FRAME ELEVATION ON GRID 2	
SALESMAN: JACOB KENNA	BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"
CUSTOMER NAME: FLOODMASTER	ADDRESS: BEAUMONT, TX 77705
DETAILER: TMR	CHECKER: DATE: JOB # 5031537 DWG # E6
	ROOF SLOPE: 1:00:12 SCALE: NONE REV: 0



FRAME ELEVATION ON GRID 3

BUILT UP MEMBER TABLE

Mark	Type	Thick x Max Width x Length
BPC1	WB	SHT10GAX20" x 233 3/8"
	IF	PL5/16"x6" x 213 3/4"
	OF	PL1/4"x6" x 231 13/16"
BPR1	WB	SHT10GAX15 1/2" x 240"
	IF	PL5/16"x6" x 38 5/8"
	IF	PL5/16"x6" x 233"
	OF	PL5/16"x6" x 38 5/8"
	OF	PL5/16"x6" x 234"
	WB	SHT10GAX16" x 32 5/8"

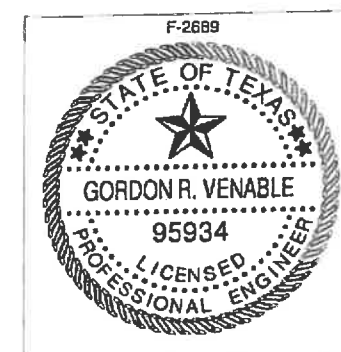
Bill of Materials

Qty	Mark	Profile	Length
2	BPC1	SHT10GAX20"	
2	BPR1	SHT10GAX15 1/2"	
4	FB3	2X2L12	2'-9 1/2"
4	FB4	2X2L12	2'-8 7/8"
4	FB5	2X2L12	2'-8 5/16"
4	FB6	2X2L12	2'-7 3/4"

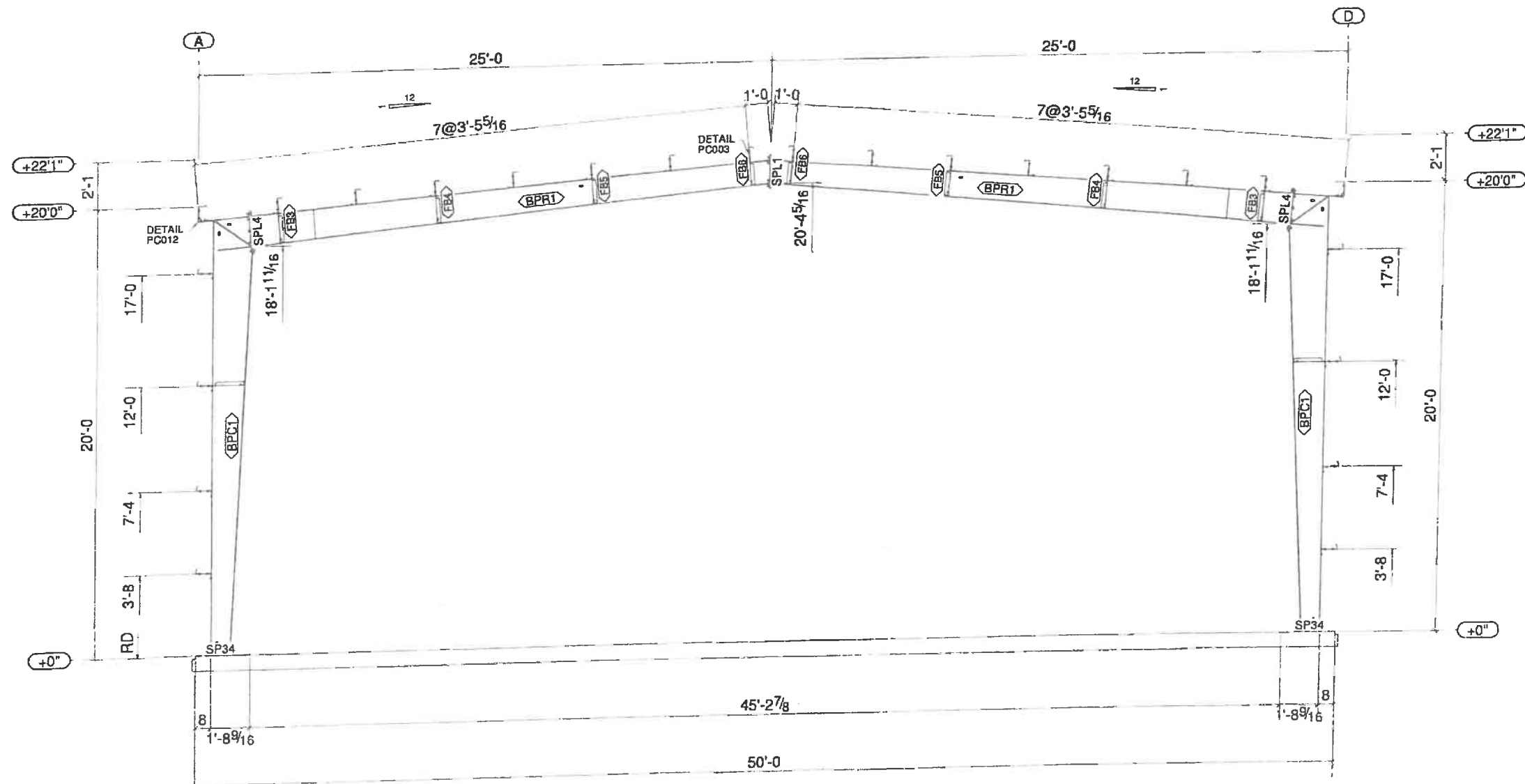
Connection Plate and Bolt Table

Mark	Plate Profile	Bolt Description
		REF. AB PLAN
SP34	PL1/2"x6" x 10 1/2"	8 - 3/4" x 2 1/2" A325N
SPL1	PL1/2"x6" x 18 1/2"	0 - 3/4" x 2 1/2" A325N
SPL4	PL5/8"x6" x 23"	0 - 3/4" x 2 1/2" A325N
SPL4	PL5/8"x6" x 23"	0 - 3/4" x 2 1/2" A325N

DJB



0	For Construction
REV	DATE DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087	
DRAWING DESCRIPTION:	
FRAME ELEVATION ON GRID 3	
SALESMAN:	JACOB KENNA
CUSTOMER NAME:	FLOODMASTER
DETAILER:	TMR
CHECKER:	
DATE:	
BUILDING DESCRIPTION:	50'-0" X 99'-0" X 20'-0"
ADDRESS:	BEAUMONT, TX 77705
JOB #	5031537
DWG #	E7
REV.	0



FRAME ELEVATION ON GRID 4

BUILT UP MEMBER TABLE				
Mark	Type	T Nick	Max Width	Length
BPC1	WB	SHT10GAX20"	x 233 3/8"	
	IF	PL5/16"x6"	x 213 3/4"	
	OF	PL1/4"x6"	x 231 13/16"	
BPR1	WB	SHT10GAX15 1/2"	x 240"	
	IF	PL5/16"x6"	x 38 5/8"	
	IF	PL5/16"x6"	x 233"	
	OF	PL5/16"x6"	x 38 5/8"	
	OF	PL5/16"x6"	x 234"	
	WB	SHT10GAX15"	x 32 5/8"	

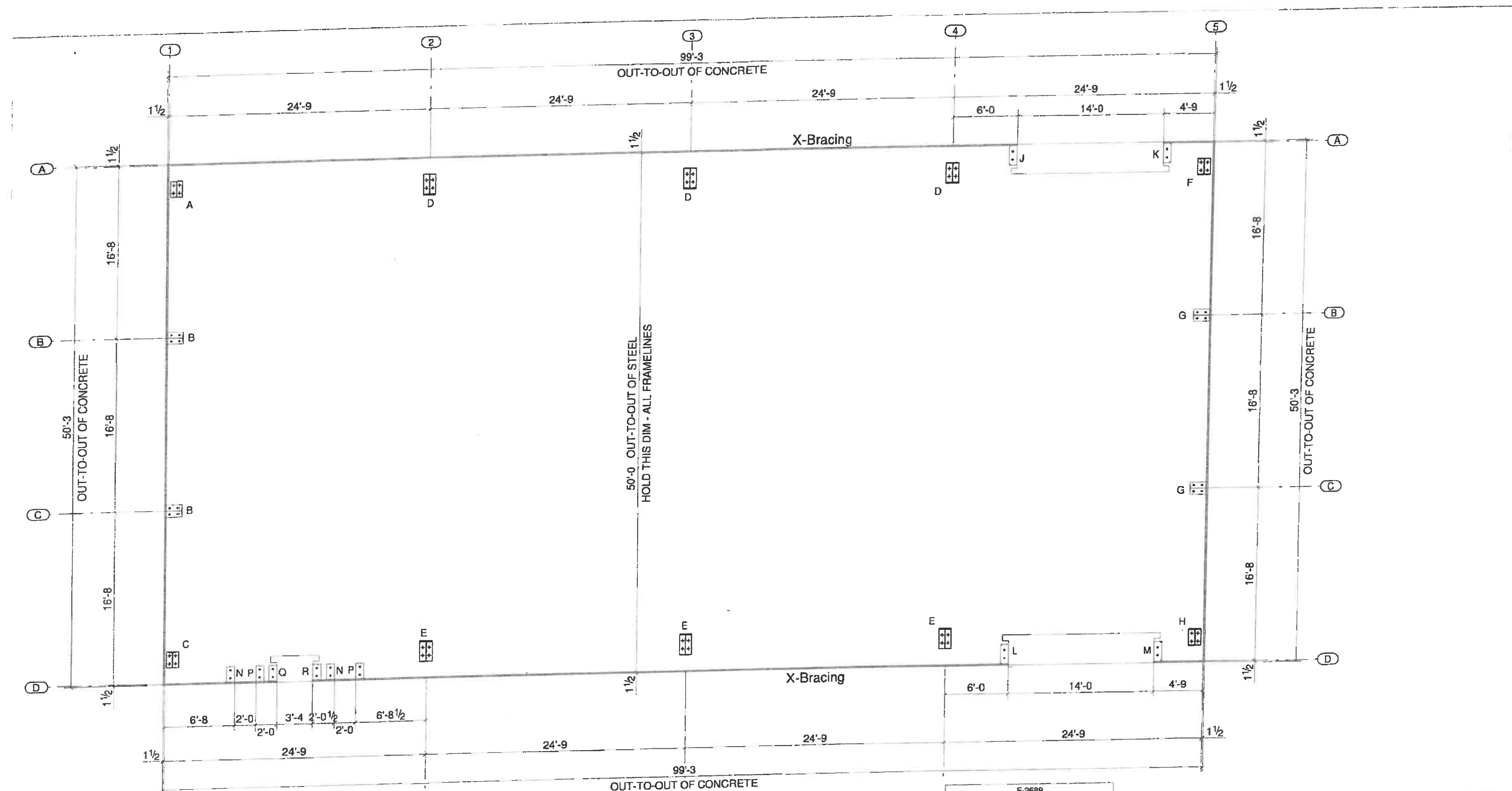
Bill of Materials			
Qty	Mark	Profile	Length
2	BPC1	SHT10GAX20"	
2	BPR1	SHT10GAX15 1/2"	
4	FB3	2X2L12	2'-9 9/16"
4	FB4	2X2L12	2'-8 15/16"
4	FB5	2X2L12	2'-8 3/8"
4	FB6	2X2L12	2'-7 13/16"

Connection Plate and Bolt Table		
Mark	Plate Profile	Bolt Description
SP34	PL1/2"x6" x 10 1/2"	REF. AB PLAN
SPL1	PL1/2"x6" x 18 1/2"	8 - 3/4" x 2 1/2" A325N
SPL4	PL5/8"x6" x 23"	10 - 3/4" x 2 1/2" A325N
SPL4	PL5/8"x6" x 23"	10 - 3/4" x 2 1/2" A325N

DJB



0	For Construction
REV	DATE DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087	
DRAWING DESCRIPTION: FRAME ELEVATION ON GRID 4	
SALESMAN: JACOB KENNA	BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"
CUSTOMER NAME: FLOODMASTER	ADDRESS: BEAUMONT, TX 77705
DETAILER: TMR	JOB # 5031537
CHECKER:	DATE:
DWG # E8	REV. 0



ANCHOR BOLT PLAN
NOTE: Base Plates @ 100'-0" (U.N.)

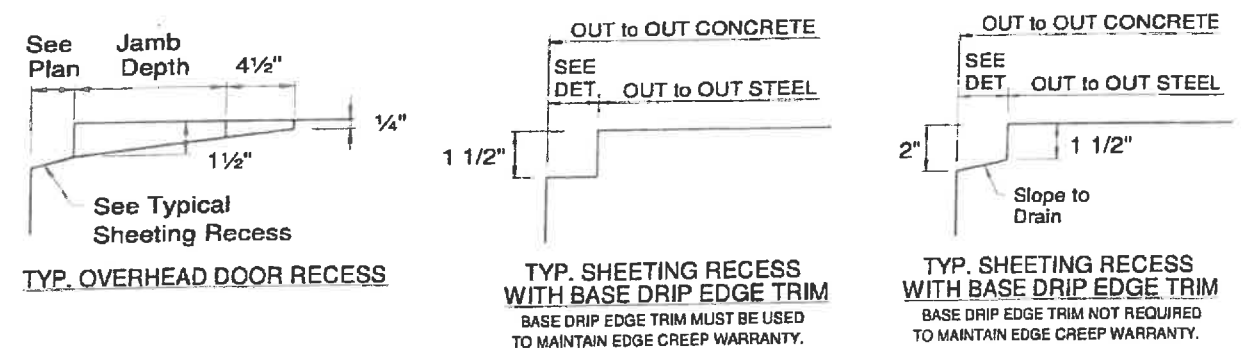
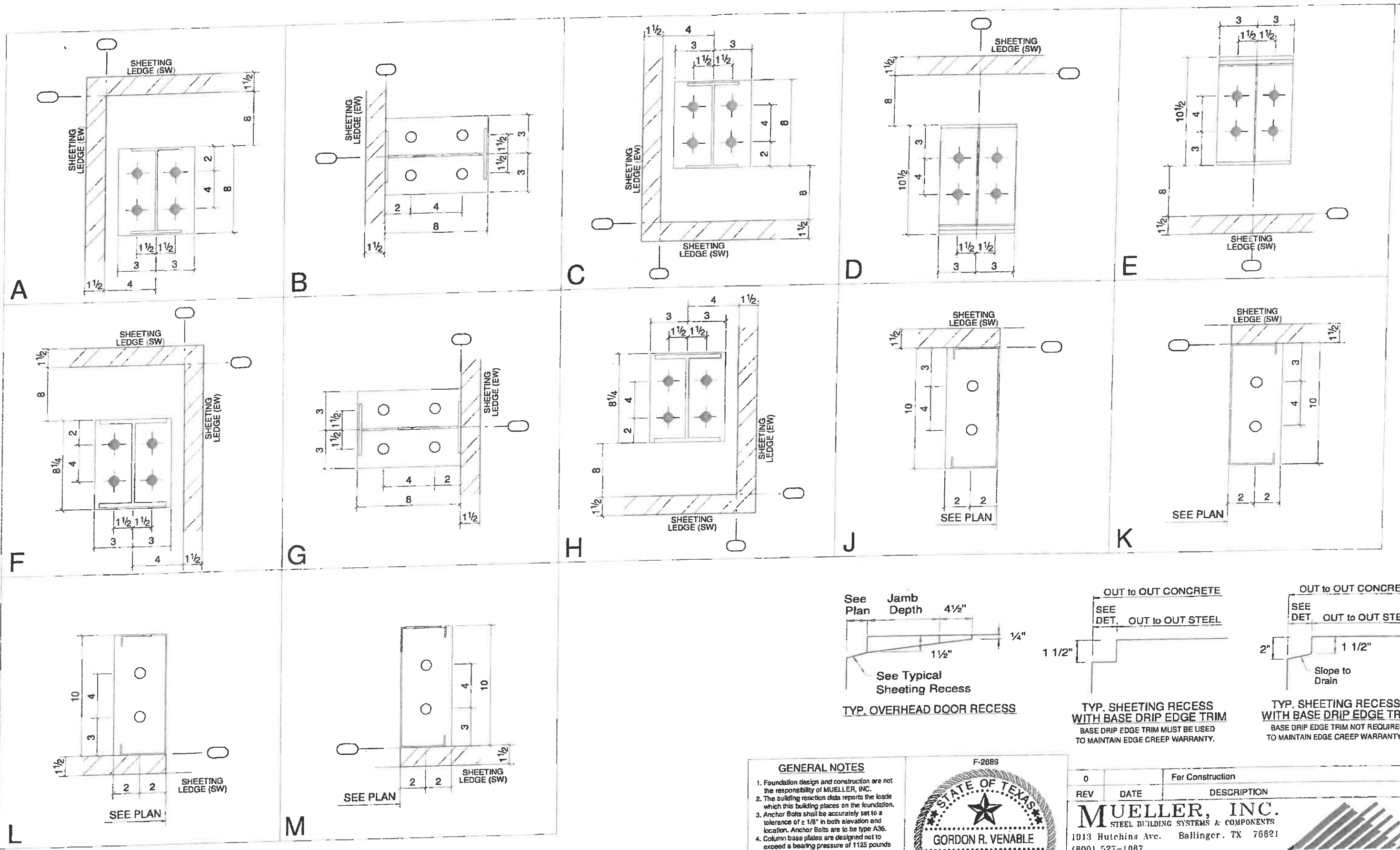
ANCHOR BOLT SUMMARY			
QTY	LOCATION	DIA	
16	ENDWALL	5/8"	
20	JAMB	5/8"	
16	ENDWALL	3/4"	
24	MAINFRAME	3/4"	

Not To Scale

DJB



0	For Construction	
REV	DATE	DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1013 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: ANCHOR BOLT PLAN		
SALESMAN: JACOB KENNA		BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"
CUSTOMER NAME: FLOODMASTER		ADDRESS: BEAUMONT, TX 77705
DETAILER: TMR	CHECKER:	DATE:
JOB # 5031537		DWG # AB1
REV. 0		SCALE: NONE
ROOF SLOPE: 1.00:12		



GENERAL NOTES

- Foundation design and construction are not the responsibility of MUELLER, INC.
- The building reaction data reports the loads which this building places on the foundation.
- Anchor Bolts shall be accurately set to a tolerance of $\pm 1/8"$ in both elevation and location. Anchor Bolts are to be type A36.
- Column base plates are designed not to exceed a bearing pressure of 1125 pounds per square inch.
- Anchor Bolt sizes are based on the concrete design strength being a minimum of 3000 psi. Anchorage of the anchor bolts and adequacy of any foundation anchorage (including anchor bolts, drive pins, or any other foundation anchorage provided by MUELLER, INC.) is solely the responsibility of the foundation designer and / or customer.

F-2689

GORDON R. VENABLE
 95934
 PROFESSIONAL ENGINEER

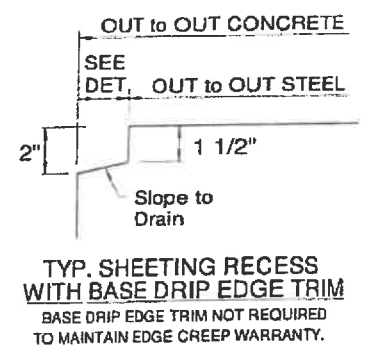
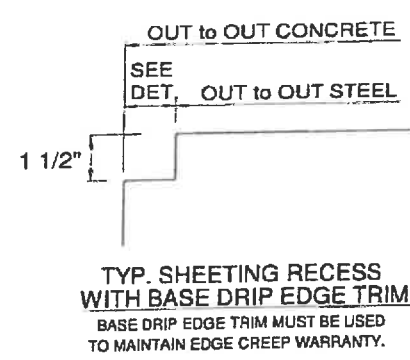
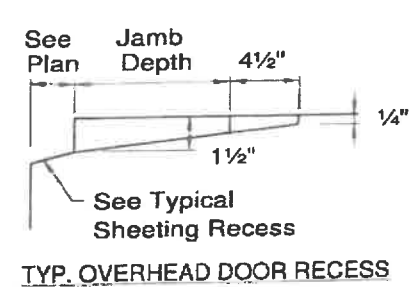
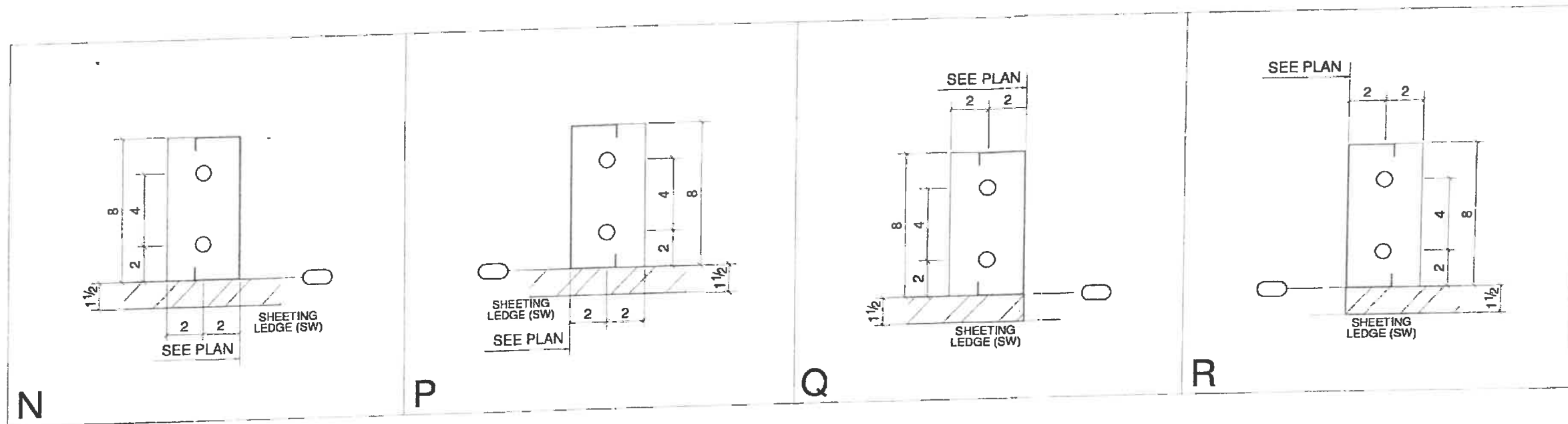
REV	DATE	DESCRIPTION
0		For Construction

MUELLER, INC.
 STEEL BUILDING SYSTEMS & COMPONENTS
 1013 Hutchins Ave. Ballinger, TX 76821
 (800) 527-1087

DRAWING DESCRIPTION: ANCHOR BOLT DETAILS		BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"	ROOF SLOPE: 1:00:12
SALESMAN: JACOB KENNA	CUSTOMER NAME: FLOODMASTER	ADDRESS: BEAUMONT, TX 77705	SCALE: NONE
DETAILER: TMR	CHECKER:	DATE:	DWG # AB2

JOB # 5031537

DJB



○ DIA = 5/8"

DJB

GENERAL NOTES

- Foundation design and construction are not the responsibility of MUELLER, INC.
- The building reaction data reports the loads which this building places on the foundation.
- Anchor Bolts shall be accurately set to a tolerance of $\pm 1/8"$ in both elevation and location. Anchor Bolts are to be type A36.
- Column base plates are designed not to exceed a bearing pressure of 1125 pounds per square inch.
- Anchor Bolt sizes are based on the concrete design strength being a minimum of 3000 psi. Anchorage of the anchor bolts and adequacy of any foundation anchorage (including anchor bolts, drive pins, or any other foundation anchorage provided by MUELLER, INC.) is solely the responsibility of the foundation designer and / or customer.

F-2689

STATE OF TEXAS

GORDON R. VENABLE

95934

PROFESSIONAL ENGINEER

0		For Construction	
REV	DATE	DESCRIPTION	
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087			
DRAWING DESCRIPTION: ANCHOR BOLT DETAILS			
SALESMAN: JACOB KENNA		BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"	
CUSTOMER NAME: FLOODMASTER		ADDRESS: BEAUMONT, TX 77705	
DEALER: TMR	CHECKER:	DATE:	JOB # 5031537
		DWG # AB3	REV. 0

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)													
Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horiz	Wind Suct Horiz	Wind Long1 Vert	Wind Long2 Vert	Seis Left Vert
1	A	0.5	0.0	1.7	-3.7	-2.1	-3.7	-2.1	-2.8	3.1	-3.8	-2.2	0.0
1	B	0.9	0.1	4.5	-9.8	-6.0	-9.8	-6.0	-5.6	6.1	-9.7	-5.9	0.0
1	C	0.9	0.1	4.5	-9.8	-6.0	-9.8	-6.0	-5.6	6.1	-9.7	-5.9	0.0
1	D	0.5	0.0	1.7	-2.1	-3.7	-2.1	-3.7	-2.8	3.1	-2.2	-3.8	0.0

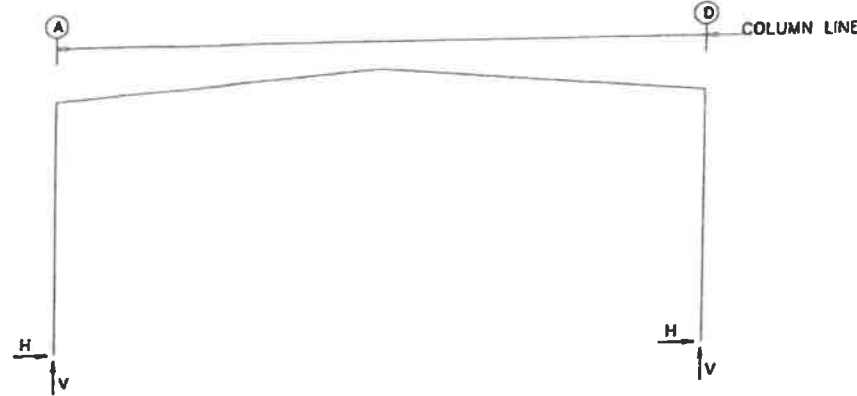
Frm Line	Col Line	Seis Right Vert	E1PAT_LL1- Horiz	E1PAT_LL2- Horiz	E1PAT_LL3- Horiz	E1PAT_LL4- Horiz	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horiz	Wind Suct Horiz	Wind Long1 Vert	Wind Long2 Vert	Seis Left Vert
1	A	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	B	0.0	0.0	4.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	C	0.0	0.0	4.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	D	0.0	0.0	-0.2	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horiz	Wind Suct Horiz	Wind Long1 Vert	Wind Long2 Vert	Seis Left Vert
5	D	0.6	0.0	1.7	-3.7	-2.1	-3.7	-2.1	-2.8	3.1	-3.8	-2.2	0.0
5	C	0.9	0.1	4.5	-9.8	-6.0	-9.8	-6.0	-5.6	6.1	-9.7	-5.9	0.0
5	B	0.9	0.1	4.5	-9.8	-6.0	-9.8	-6.0	-5.6	6.1	-9.7	-5.9	0.0
5	A	0.6	0.0	1.7	-2.1	-3.7	-2.1	-3.7	-2.8	3.1	-2.2	-3.8	0.0

Frm Line	Col Line	Seis Right Vert	E2PAT_LL1- Horiz	E2PAT_LL2- Horiz	E2PAT_LL3- Horiz	E2PAT_LL4- Horiz	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horiz	Wind Suct Horiz	Wind Long1 Vert	Wind Long2 Vert	Seis Left Vert
5	D	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	C	0.0	0.0	4.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	B	0.0	0.0	4.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	A	0.0	0.0	-0.2	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES													
Frm Line	Col Line	Column Reactions (k.)						Anc. Qty	Bolt Dia	Base Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
1	A	6	1.9	-2.0	7	-1.7	-2.0	4	0.750	6.000	8.000	0.500	0.0
		1	0.0	2.3	6	1.9	-2.0						
1	B	8	3.6	-5.3	7	-3.3	-5.2	4	0.625	6.000	8.000	0.500	0.0
		1	0.0	5.6	8	3.6	-5.3						
1	C	9	3.6	-5.3	10	-3.3	-5.2	4	0.625	6.000	8.000	0.500	0.0
		1	0.0	5.6	9	3.6	-5.3						
1	D	11	1.9	-2.0	10	-1.7	-2.0	4	0.750	6.000	8.000	0.500	0.0
		1	0.0	2.3	11	1.9	-2.0						
5	D	6	1.9	-1.9	7	-1.7	-1.9	4	0.750	6.000	8.250	0.500	0.0
		1	0.0	2.4	6	1.9	-1.9						
5	C	8	3.6	-5.3	7	-3.3	-5.2	4	0.625	6.000	8.000	0.500	0.0
		1	0.0	5.6	8	3.6	-5.3						
5	B	9	3.6	-5.3	10	-3.3	-5.2	4	0.625	6.000	8.000	0.500	0.0
		1	0.0	5.6	9	3.6	-5.3						
5	A	11	1.9	-1.9	10	-1.7	-1.9	4	0.750	6.000	8.250	0.500	0.0
		1	0.0	2.4	11	1.9	-1.9						

FRAME LINES: 2 3 4



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Bolt Dia	Base_Plate (in) Width	Length	Thick	Grout (in)
2*	A	1	3.5	10.1	2	-6.5	-6.4	4	0.750	6.000	10.50	0.500	0.0
2*	D	3	6.5	-6.4	1	-3.5	10.1	4	0.750	6.000	10.50	0.500	0.0

2* Frame lines: 2 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
2*	A	0.7	2.3	0.1	0.3	2.7	7.4	-11.4	-21.6	11.4	-21.6	-1.1	-3.9
2*	D	-0.7	2.3	-0.1	0.3	-2.7	7.4	-1.3	-12.6	0.1	-0.1	0.0	-0.8

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	Seismic_Long Horiz	Seismic_Long Vert
2*	A	1.1	-3.9	-0.1	-25.2	-0.8	-21.7	-0.1	-0.1	0.1	-0.1	0.0	-0.8
2*	D	11.5	-12.9	0.8	-21.7	0.1	-25.2	-0.1	0.1	0.1	-0.1	0.0	-0.8

2* Frame lines: 2 3 4

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	50
Length (ft)	99
Back Eave Height (ft)	20
Front Eave Height (ft)	20
Back Roof Slope (rise/12)	1.0:12
Front Roof Slope (rise/12)	1.0:12
Dead Load (psf)	141
Collateral Load (psf)	0.5
Roof Live Load (psf)	20.00
Frame Live Load (psf)	Yes
Ground Snow Load (psf)	0.0000
Roof Snow Load (psf)	0.0000
Wind Speed (mph)	141
Wind Code	IBC 12
Wind Exposure	C
Enclosure	Closed
Importance Wind	1.00
Importance Seismic	1.00
Seismic Design Category	B
Seismic Coefficient	0.128
Risk Category	II - Normal

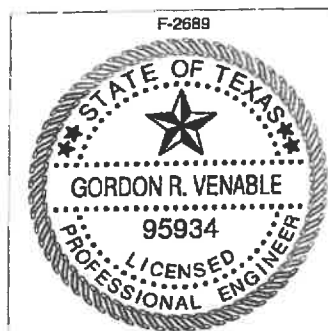
ID Description

- 1 Dead+Collateral+Live
- 2 0.6Dead+0.6Wind_Left12
- 3 0.6Dead+0.6Wind_Right12
- 4 0.6Dead+0.6Wind_Long1
- 5 0.6Dead+0.6Wind_Long2
- 6 0.6Dead+0.6Wind_Suction+0.6Wind_Long1
- 7 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1
- 8 0.6Dead+0.6Wind_Left12+0.6Wind_Suction
- 9 0.6Dead+0.6Wind_Right12+0.6Wind_Suction
- 10 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2
- 11 0.6Dead+0.6Wind_Suction+0.6Wind_Long2

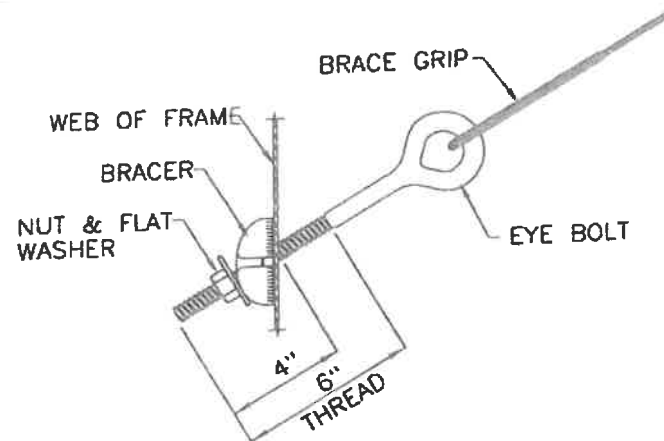
BUILDING BRACING REACTIONS

Loc	Line	Col Line	± Reactions (k) Wind Horiz	± Reactions (k) Seismic Horiz	Panel Shear (lb/ft) Wind	Panel Shear (lb/ft) Seis
L_EW	1				51	2
F_SW	D	3,4	8.5	6.3	0.4	0.3
R_EW	5				48	2
B_SW	A	4,3	8.5	6.3	0.4	0.3

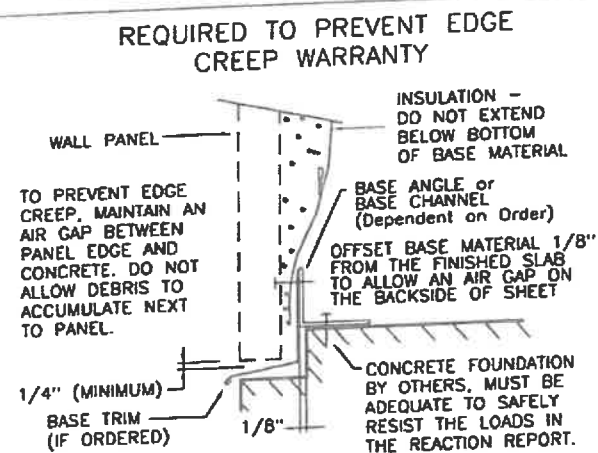
DJB



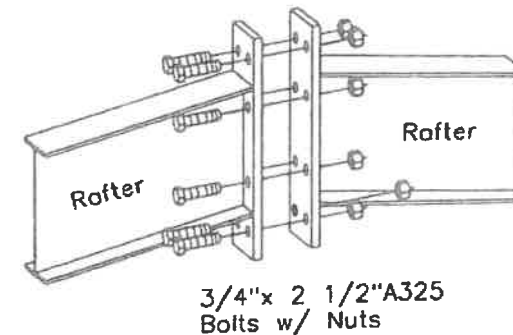
0	For Construction	
REV	DATE	DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION:		ROOF SLOPE
REACTIONS		50'-0" X 99'-0" X 20'-0"
SALESMAN: JACOB KENNA		SCALE
CUSTOMER NAME: FLOODMASTER		NONE
DETAILER: TMR	CHECKER:	DATE:
JOB # 5031537		DWG # AB4
		REV. 0



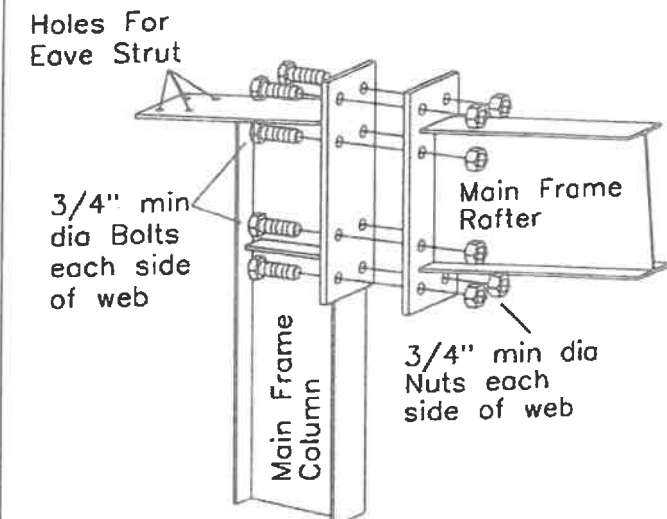
BR001 CABLE TO COLUMN OR RAFTER WEB WITH EYEBOLT ATTACHMENT



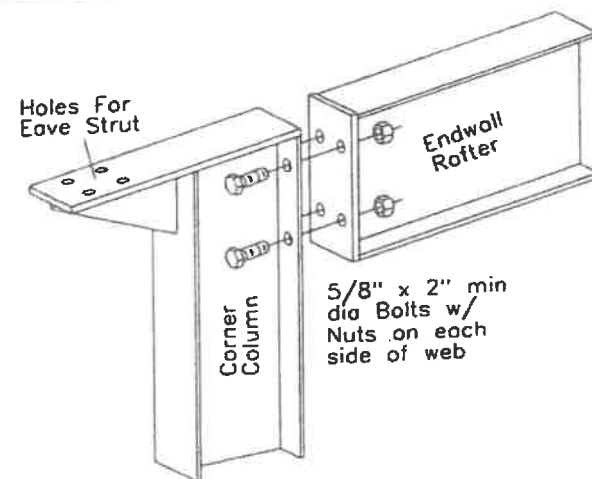
CW001 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



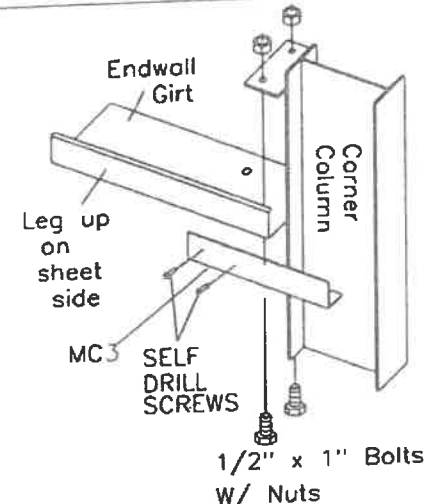
EC002 RAFTER SPLICE AT PEAK



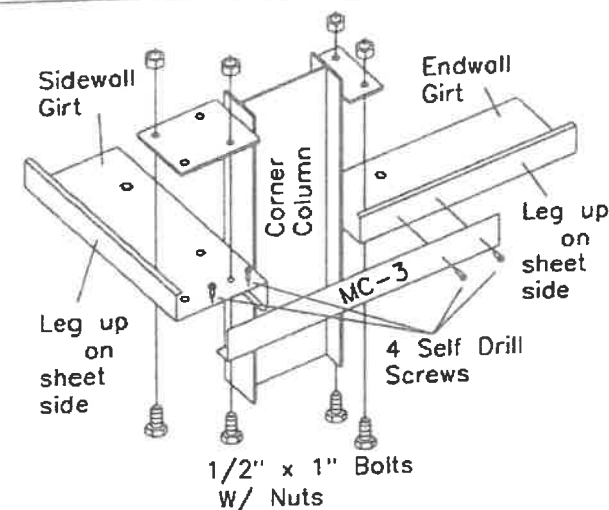
EC004 BYPASS COLUMN TO MAINFRAME RAFTER



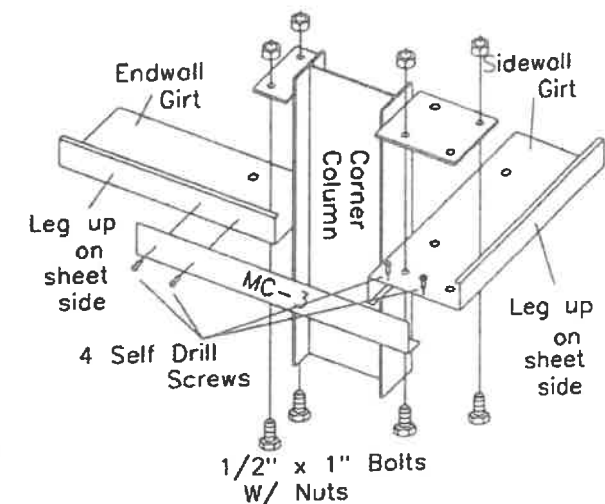
EC011 BYPASS CORNER COLUMN TO STANDARD ENDWALL RAFTER



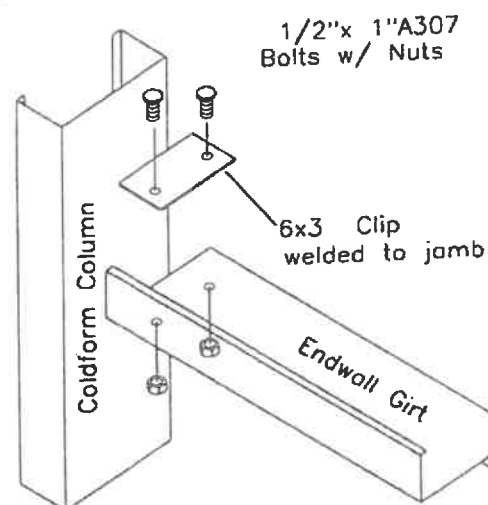
GC002ER CORNER COLUMN TO ENDWALL GIRTS



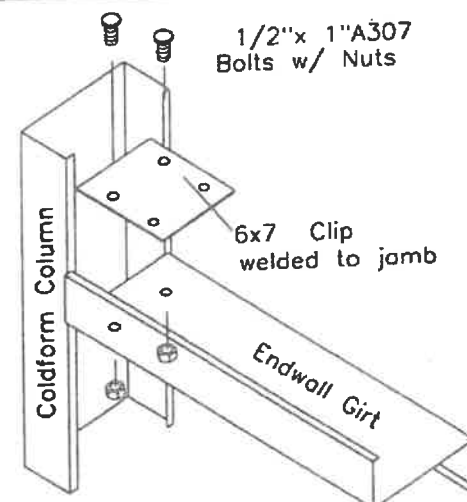
GC008L CORNER COLUMN TO WALL GIRTS



GC008R CORNER COLUMN TO WALL GIRTS



GC016 COLDFORM COLUMN TO WALL GIRTS

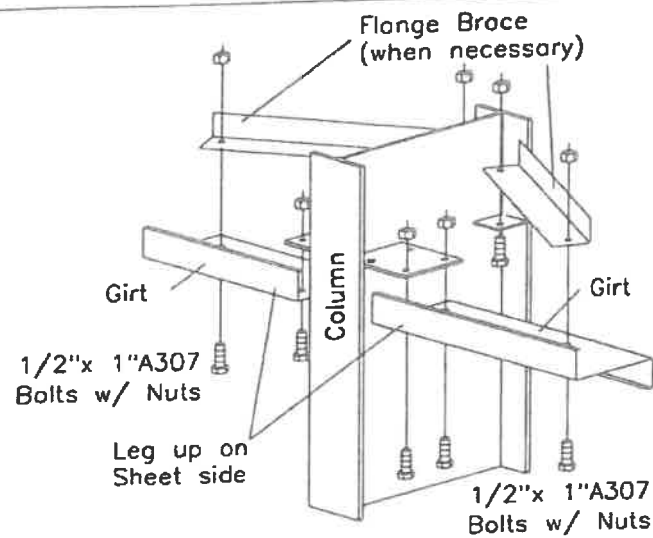


GC017 COLDFORM COLUMN TO WALL GIRTS

DJB

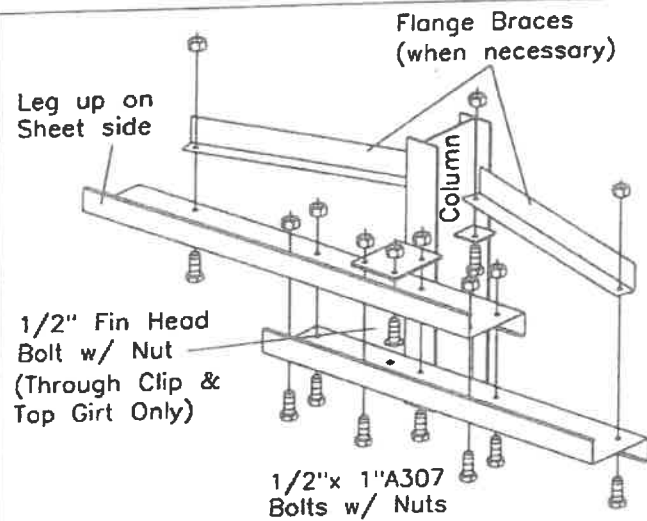


0	For Construction	
REV	DATE	DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: ERECTION DETAILS		
SALESMAN: JACOB KENNA	BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"	
CUSTOMER NAME: FLOODMASTER	ADDRESS: BEAUMONT, TX 77705	
DETAILER: TMR	CHECKER:	DATE:
JOB # 5031537	DWG # E101	REV. 0



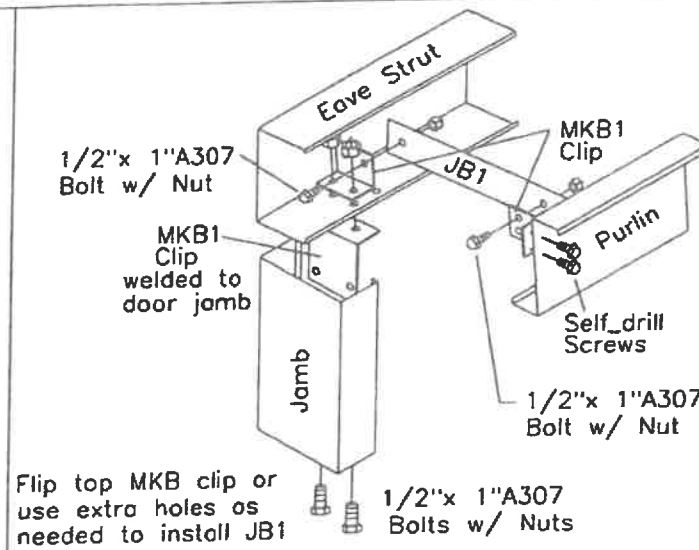
GC020

INTERIOR COLUMN
TO WALL GIRT



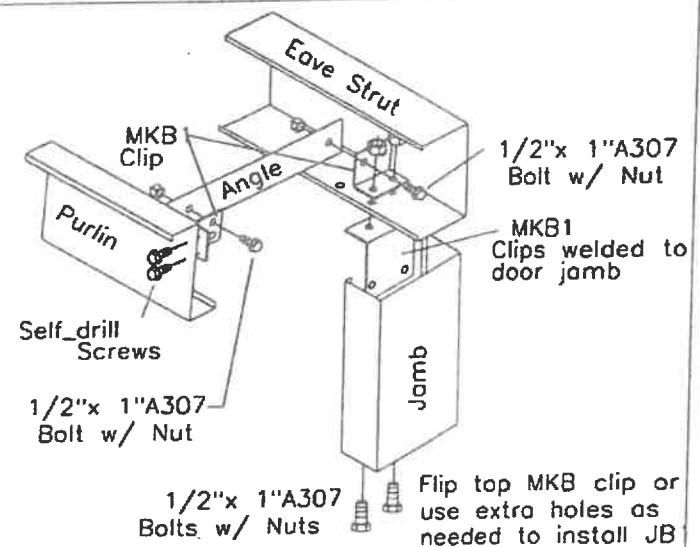
GC023

INTERIOR COLUMN TO
LAPPED WALL GIRT



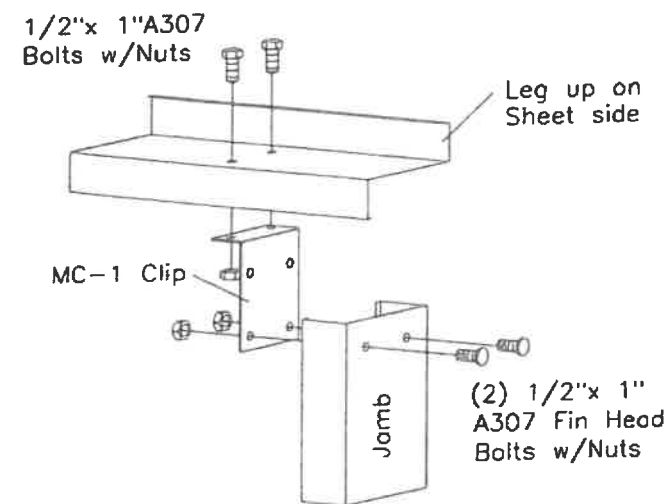
OP001L

JAMB TO EAVE STRUT
WITH ANGLE BRACE



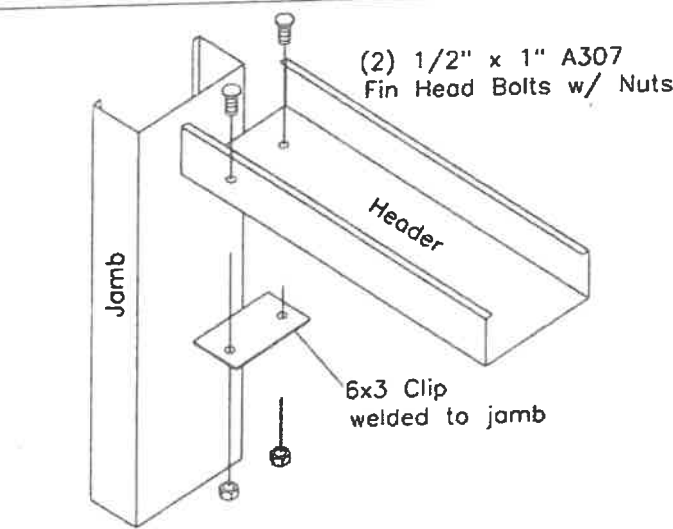
OP001R

JAMB TO EAVE STRUT
WITH ANGLE BRACE



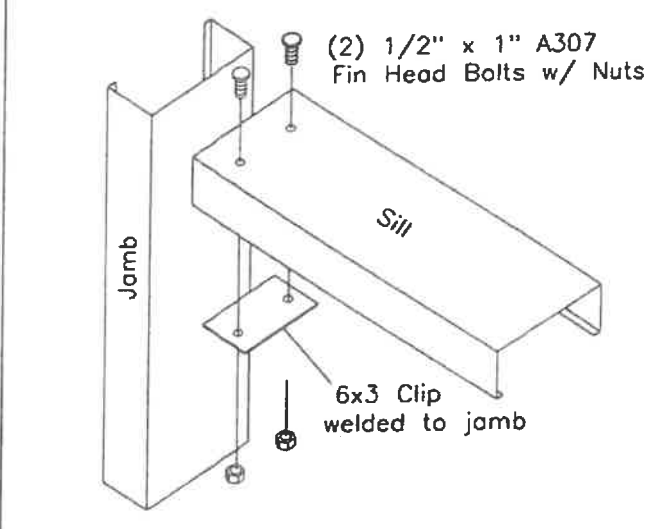
OP004

JAMB TO WALL GIRT



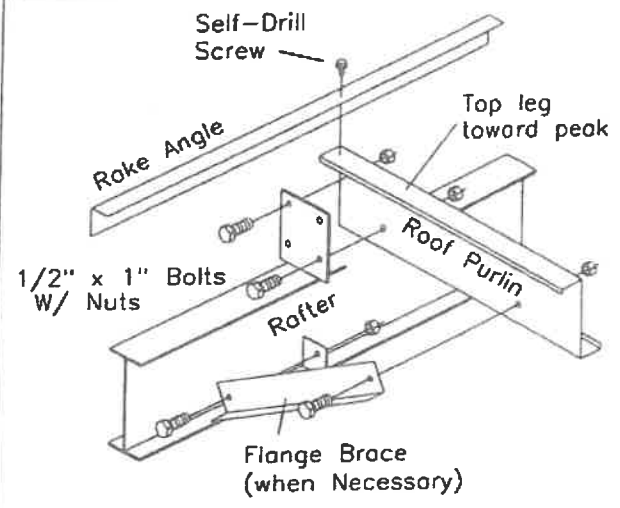
OP014

HEADER TO JAMB



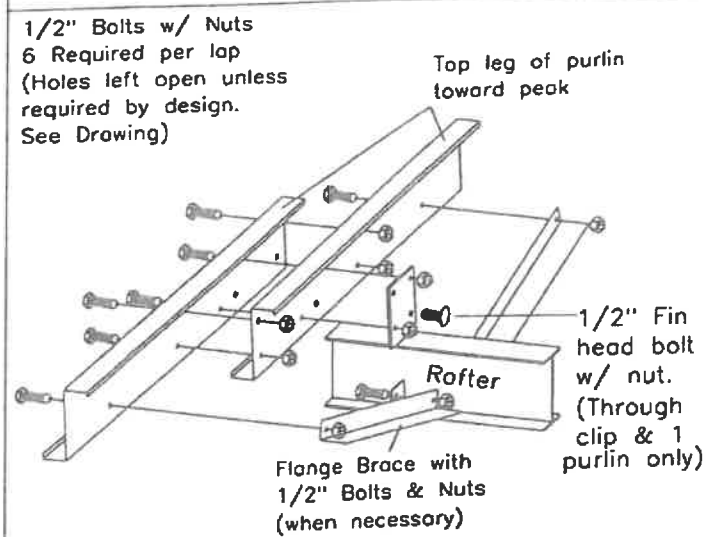
OP015

SILL TO JAMB



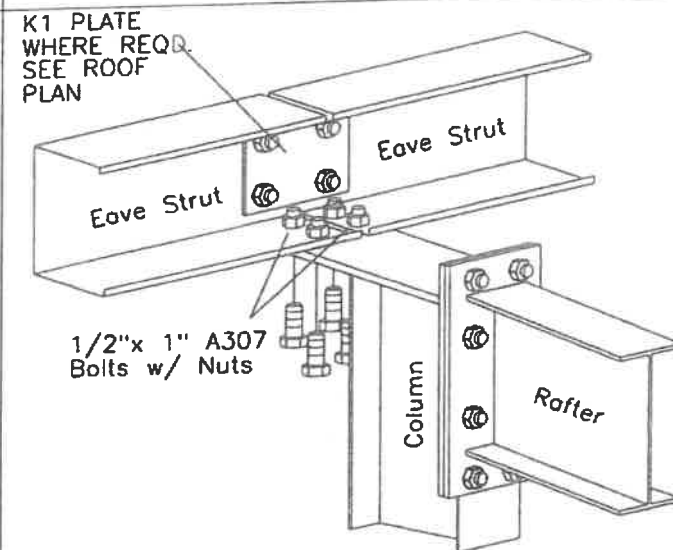
PC001

ENDWALL RAFTER
TO ROOF PURLIN



PC003

INTERIOR RAFTER
TO ROOF PURLIN



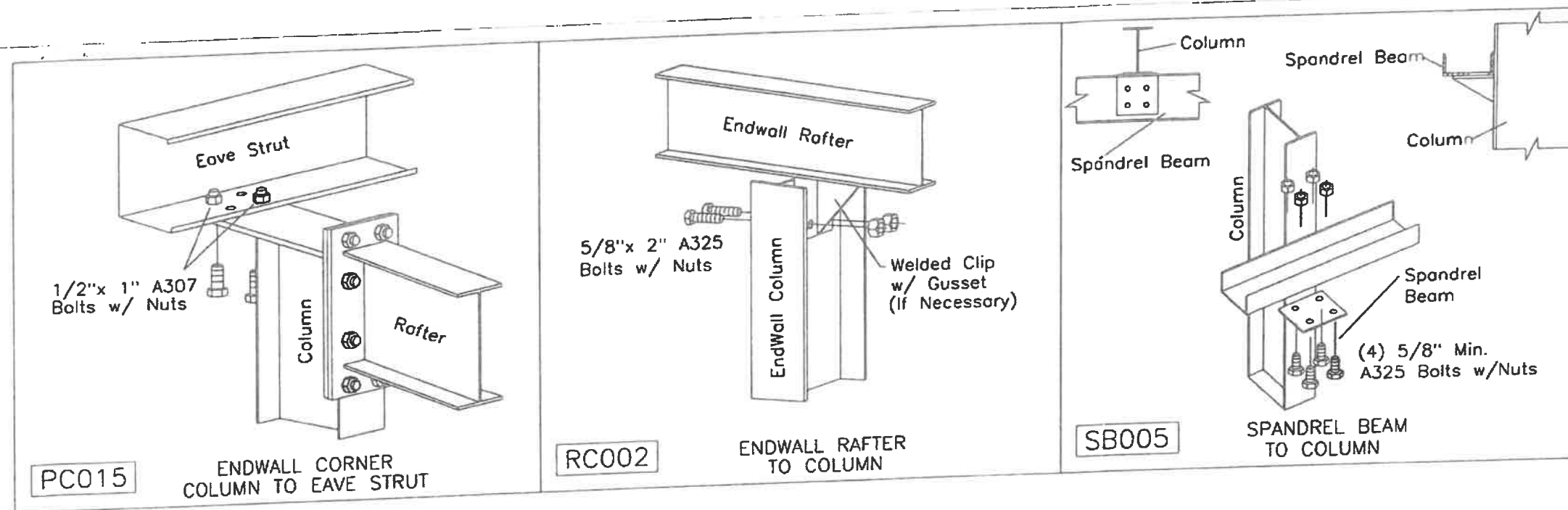
PC012

INTERIOR FRAME
COLUMN TO EAVE STRUTS

DJB



0	..	For Construction
REV	DATE	DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: ERECTION DETAILS		
SALESMAN:	JACOB KENNA	BUILDING DESCRIPTION:
CUSTOMER NAME:	FLOODMASTER	50'-0" X 99'-0" X 20'-0"
DETAILER:	TMR	ADDRESS:
CHECKER:		BEAUMONT, TX 77705
DATE:		JOB #
		5031537
		DWG #
		E102
		REV
		0



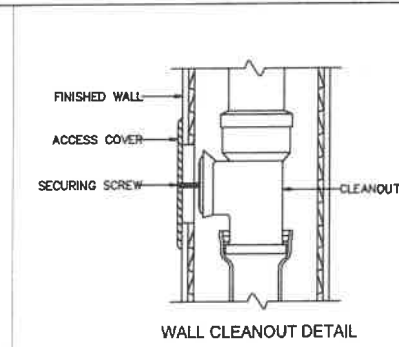
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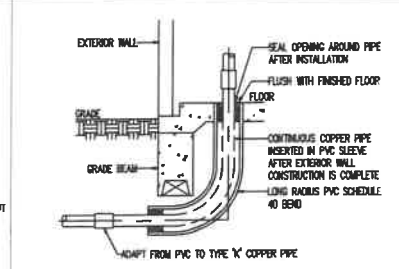
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REV	DATE	DESCRIPTION
MUELLER, INC. STEEL BUILDING SYSTEMS & COMPONENTS 1013 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: ERECTION DETAILS		
SALESMAN: JACOB KENNA	BUILDING DESCRIPTION: 50'-0" X 99'-0" X 20'-0"	ROOF SLOPE: 1:12
CUSTOMER NAME: FLOODMASTER	ADDRESS: BEAUMONT, TX 77705	SCALE: NONE
DETAILER: TMR	CHECKER:	DATE:
JOB # 5031537	DWG # E103	REV. 0

DJB



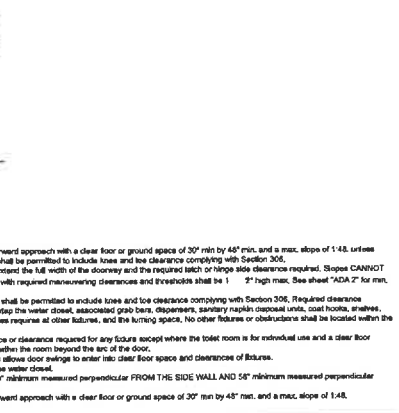


WALL CLEANOUT DETAIL



FLOOR CLEANOUT DETAIL

7
P-1 Typical Water Entry to Building
NOT TO SCALE



ENLARGED SINGLE USER RESTROOM

PLUMBING NOTES

Contractor to verify elevation and dimensions of finished floors and walls. True all drains, rough-ins and carries in accordance with proposed elevations and finished surfaces.

Provide deep seal P-Traps on all drains provided with trap primers.

Mounting height elevation of all wall hung or counter mounted fixtures shall be coordinated with the architect prior to installation.

For all fixtures and equipment with associated trim or component accessories provided under separate divisions and required plumbing connections; the contractor shall make provisions for and supply all materials and labor for complete final connections.

All fixture stops shall be solid brass. Loose key operated. Chromium plated and fitted tight to chrome plated brass wall escutcheon plates.

All plumbing fixtures and fixture faucets supplies shall conform to the requirements of senate bill 587 for water saving performance requirements.

All rough-in openings shall be fitted with chromium plated heavy gauge brass escutcheon plated fitted tight to the pipe.

All exposed brass shall be chromium plated.

All seal all spaces plumbing fixtures and mounting surfaces with white caulk wiped smooth and flush with fixtures.

All domestic water piping shall be PEX.

All waste and vent piping shall be no hub service weight cast iron with neoprene gaskets.

All wheelchair lavatory exposed piping to be insulated.

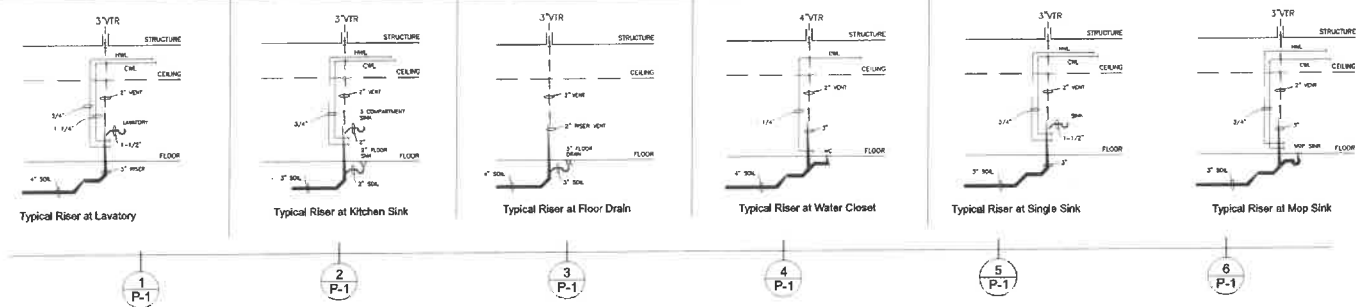
All plumbing shall be installed in accordance with the IBC and the local code.

Sanitary sewer piping shall be PVC schedule 40 & SDR 26.

Provide shock absorbers at each main battery of fixtures.

Rough-in and make connections to all equipment including items furnished by others.

ALL PLUMBING WORK SHALL COMPLY WITH THE CITY OF PORT LAVACA PLUMBING CODES.



Typical Riser at Lavator

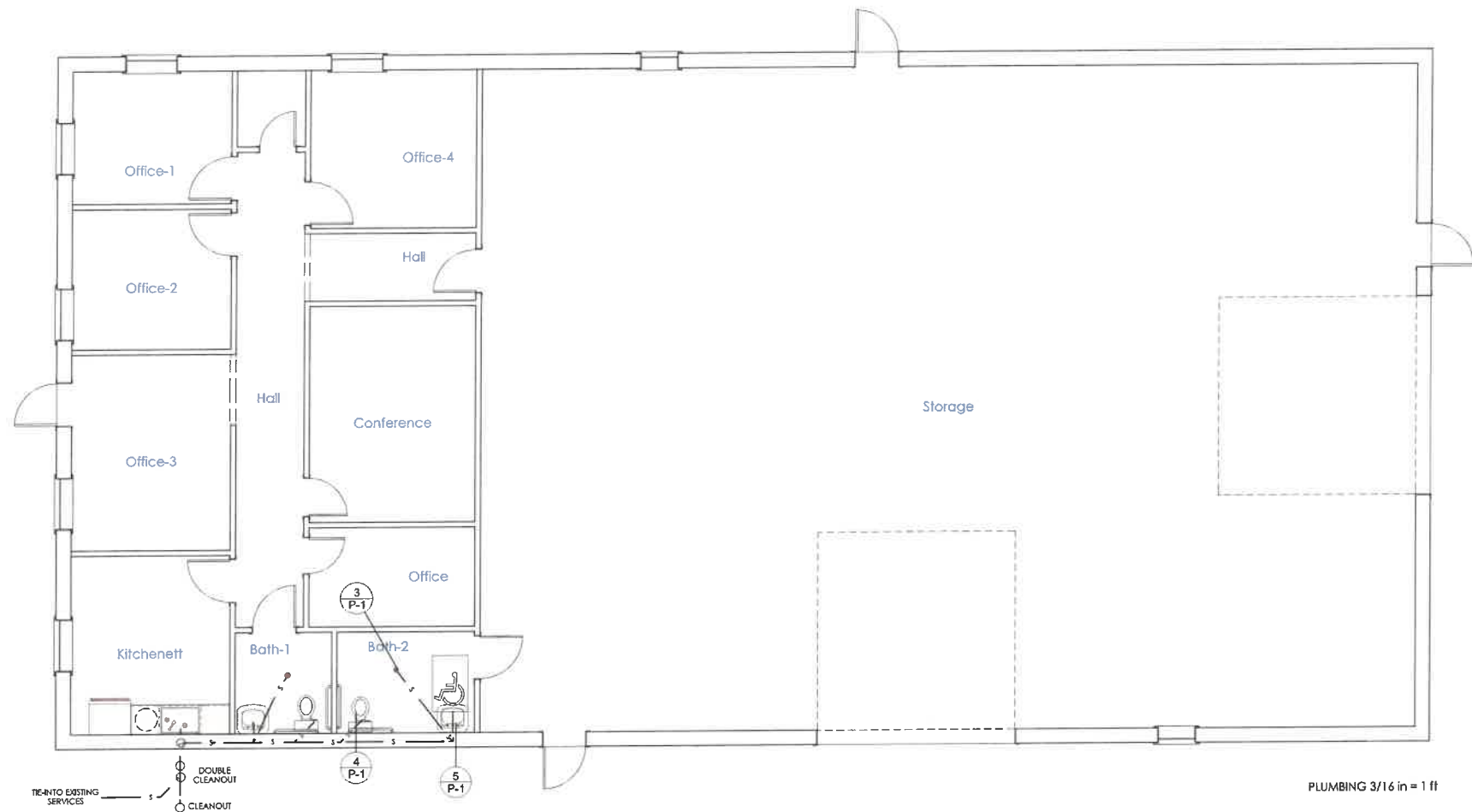
Typical Riser at Kitchen S

Typical Riser at Floor Drain

Typical Riser at Water C

Typical Riser at Single Sink

Typical Riser at Mo



PLUMBING 3/16 in = 1 ft

NOTE:
PLUMBER MUST FIELD VERIFY THE
EXISTING SEWER LOCATION FOR
FLOW LINE & DEPTH PRIOR TO
ANY PLUMBING CONNECTIONS.



To the best of my knowledge these plans do indeed comply with owners' and builders' specifications and are chosen made on them after prints are made with costs of the owners and / or builder expense and responsibility. The contractor shall verify all dimensions and entree showing, benchmark plans & Associates, Inc. is not liable for errors once a contractor has begun. While every effort has been made to make the drawings and specifications as realistic as possible, the owner can not guarantee against human error. The contractor of this job must check all dimensions and specifications prior to construction and be held responsible thereafter. PMAC, Inc. is not responsible for any injuries or accident occurring during construction from behavior to exterior of a contractor. PMAC, Inc. is not responsible for applicable local, state and federal regulations of OSHA for safety of the workers.

8PAULC
TEXAS FIRM NO. F-24259
87 Interstate 10 N. Suite 115
Beaumont, TX 77702
409-351-2601 Cell
409-225-5920 Office
benchmarkplns1990@outlook.com



Port Lavaca Building Facility



Lester A. Saucier, PE
BPALLC
Firm F-24259
87 Interstate 10 N Suite 115
Beaumont, TX 77707
Cell: 409-882-4121

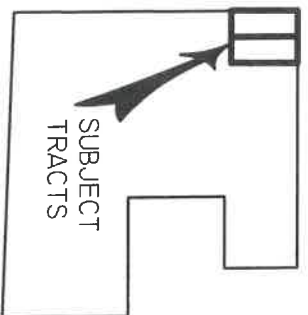
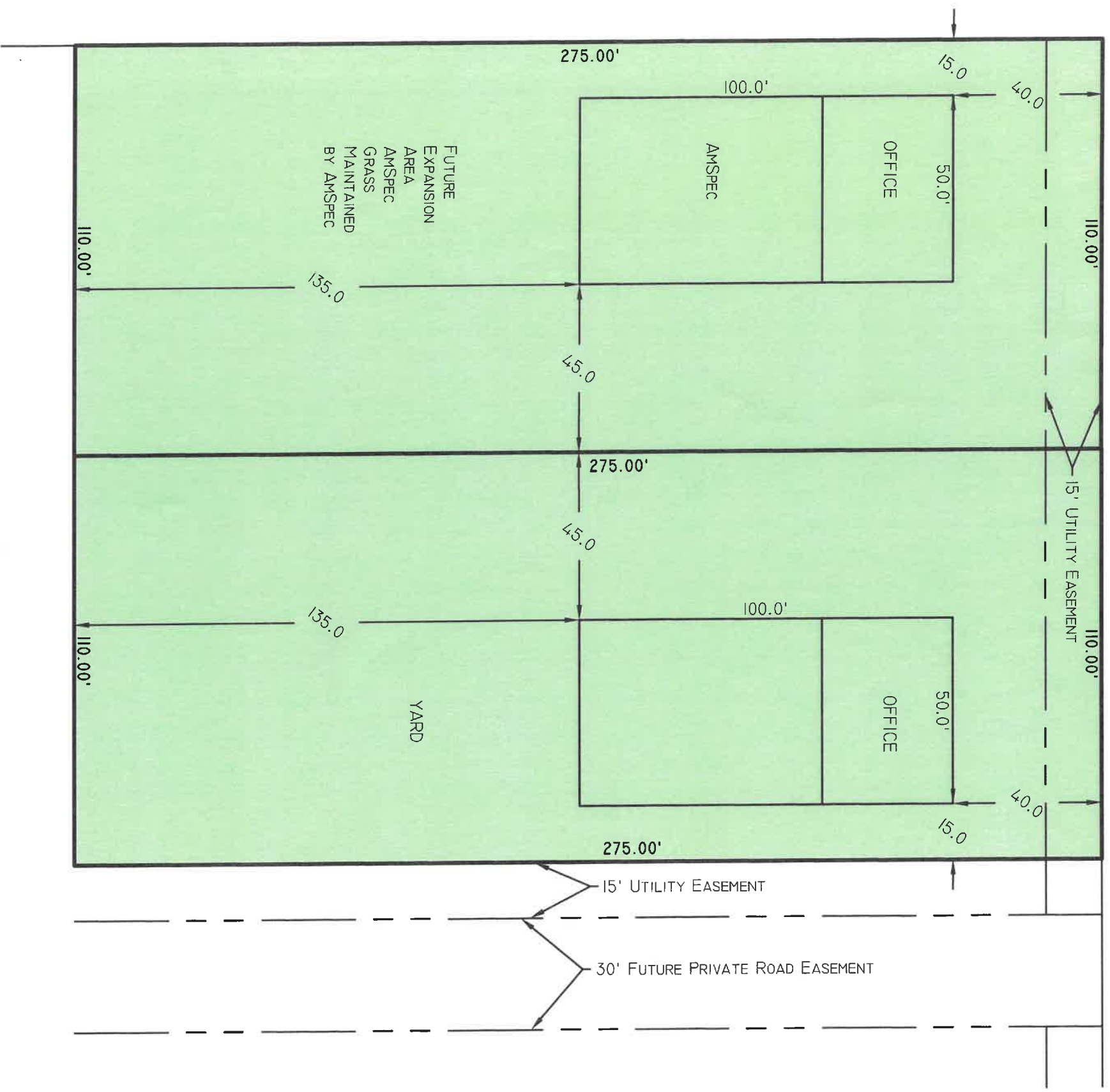
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PLUMBING & DETAIL PLAN

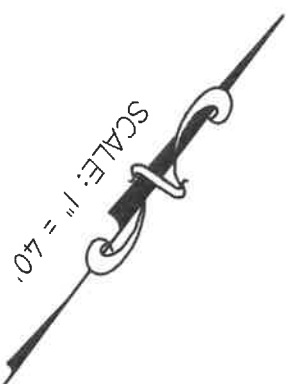
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CHECKED BY:	CS
DATE OF ISSUE:	02/20/23
PROJECT NUMBER:	02-23-BMT-HL
SHEET NUMBER:	

P-1

ALCOA DRIVE



SUBJECT
TRACTS



SCALE: 1" = 40'

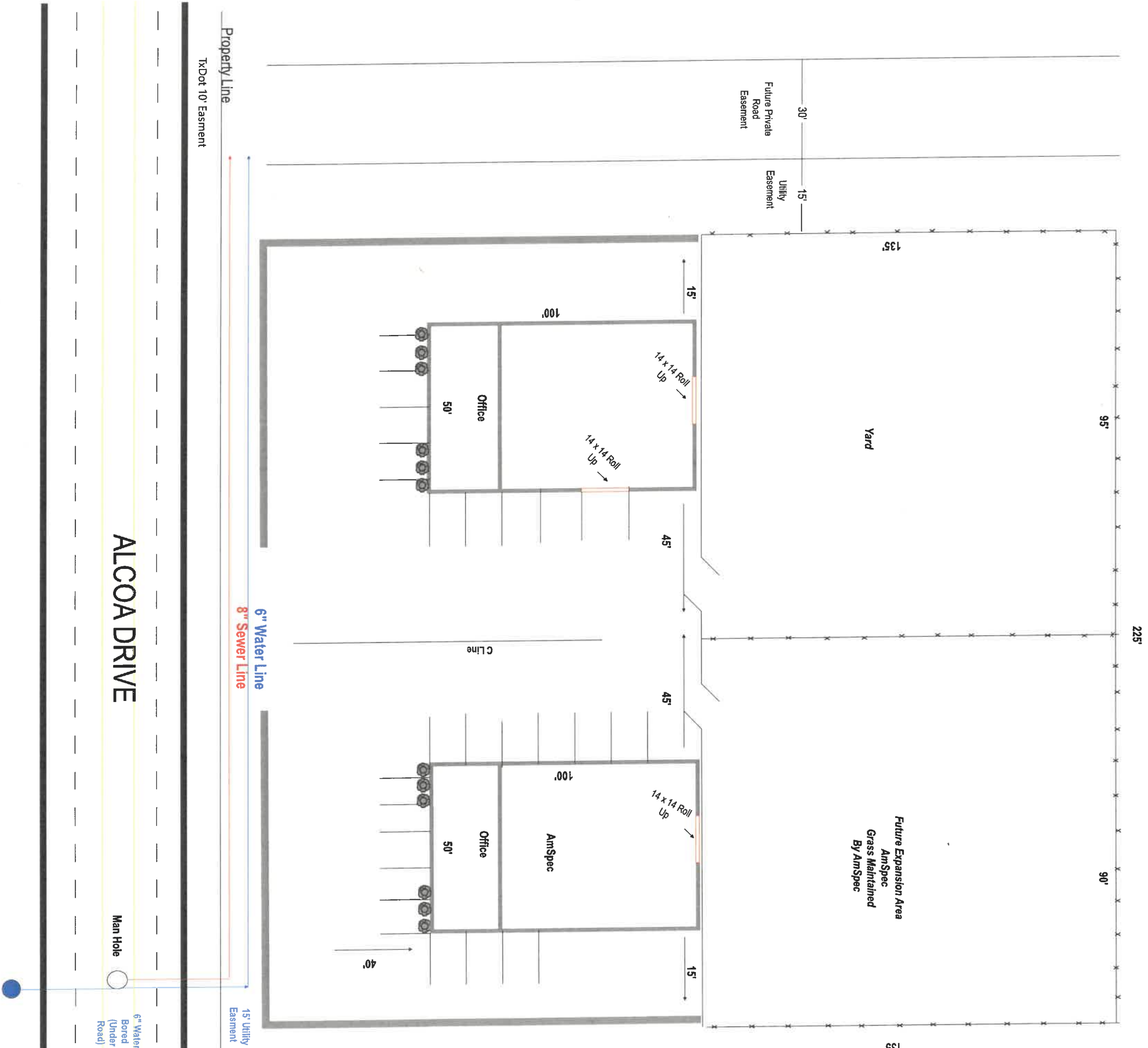


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www.access-surveyors.com & rpls5163@aol.com
FILE: 2023463 FIRM NO. 10136400

TECHNICIAN: A.M.LEA

SITE SKETCH
OUT OF A 29.41 ACRE TRACT
SAMUEL SHUPE SURVEY
ABSTRACT NO. 137
CALHOUN COUNTY, TEXAS



ALCOA DRIVE

Man Hole
6" Water Bored (Under Road)