

### GENERAL STRUCTURAL NOTES

### GENERAL:

- I. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.
- 2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
- 3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- 4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
- 5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, FLECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE

### SHOP DRAWINGS AND DELEGATED ENGINEERING:

- I. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT. CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS
- 2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.
- 3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.
- 4. ARCHITECT WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.
- 5. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR ARCHITECT REVIEW, BEFORE STARTING FABRICATION. THE ARCHITECT WILL RETURN ONE MARKED UP AND STAMPED COPY TO THE CONTRACTOR. THE MARKED-UP COPY SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION.

### CONSTRUCTION MEANS AND METHODS:

- I. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.
- 2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- 3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.
- 4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.
- 5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.
- 6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.
- 7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

### UNDATIONS: (SPREAD FOOTINGS)

- I FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED (ADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF NMUM. FOR REQUIRED SOIL BEARING CAPASITIES GREATER THAN 1,000 IF, A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE (NER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. 1D SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA GISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN E FOOTINGS.
- : NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE MPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557).
- TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF LUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING THE LOWER ONE (AS DETAILED ON THE PLANS).
- , BOTTOM OF ALL FOOTINGS TO BE A MINIMUM I'-6" BELOW THE TOP OF NCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" LOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB EPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-6" BELOW TOP (THE LOWER SLAB.
- ! REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC D NON-MONOLITHIC) SHALL BE SPLICED 40 BAR DIAMETERS MINIMUM AND ALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.
- ( ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, ALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 IR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, ITENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.
- ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.
- WHEN GEO-TECHNICAL REPORTS ARE PROVIDED, ALL RECOMENDATIONS THE SOILS ENGINEER SHALL BE FOLLOWED AND THE DESIGN SOIL BEARING IESSURE SHALL BE AS RECOMMENDED IN SUCH REPORTS, AND SUPERCEEDS IESSURES INDICATED HEREIN.

### INCRETE SLABS ON GRADE:

- I ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES ICK MINIMUM REINFORCED WITH 6 X 6 - WI.4 X WI.4 WELDED WIRE FABRIC NLESS OTHERWISE NOTED).
- ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH ITEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. 302.IR)
- JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT C. INDICATED ON THE PLANS DIVIDING THE SLAB INTO SQUARE PANELS NOT TO CEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, INTRACTION AND ISOLATION JOINT DETAILS.
- PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM ACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C.
- ! FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" D COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A STANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE INSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND ISULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

### NCRETE AND REINFORCING:

- I CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "JILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 -ITEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE INFORCEMENT" - (A.C.I. 315 - LATEST EDITION).
- ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR "RUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION). IODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN CORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST
- ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH (3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".
- ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE TEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. ANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 D C.R.S.I. MANUAL OF STANDARD PRACTICE.

### ! CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

OTINGS:	(BOTTOM)
ABS ON GRADE:	CENTERED W/SLAB

BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 THES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ILY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES IO.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED .O.N.).

ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS INT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES ( ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND TERMEDIATE REBARS).

E SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

# 40'-0" 20'-0" 19'-8" DBL. #5 REBAR "HAIRPIN" ANCHOR, LOCATED AT C.L. OF CONCRETE SLAB, TYP. 2 LOC. \_ $\supset$ 4" SMOOTH STEELED TROWLLED CONC. SLAB, W/ 6X6, 10/10 W.W.M., DBL'D AT SLAB EDGE, PER PLAN W/ FIBERMESH REINFORCING, OVER 6 MIL PLASTIC SHEETING, ON CLEAN, WELL COMPACTED SAND FILL TERMITE TREATED LAP EDGES OF 6 MIL VAPOR BARRIER MIN. 6" -SEAL ALL JOINTS, TEARS AND PIPING PENETRATIONS WITH DUCT TAPE PROVIDE DBL. 6X6 10/10 W.W.M. SLAB REINFORCING ALL AROUND SLAB EDGE EXTENDING 60" H/- INTO SLAB. " DEEP SAW-CUIT CONTROL JOINTS × LOCATE AS SHOWN 27'-4" 12'-8"

### STRUCTURAL DESIGN CRITERIA:

- I. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2020 FLORIDA BULDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.
- 2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE "C"

BASED ON ANSI/ASCE 7-10. 2020 FBC 1609-A WIND VELOCITY: VULT = 130 MPH VASD = 102 MPH

3. ROOF DESIGN LOADS: SUPERIMPOSED DEAD LOADS:	
4. FLOOR DESIGN LOADS: SUPERIMPOSED DEAD LOADS: SUPERIMPOSED LIVE LOADS:	25 PSF
COMMERCIAL	100 PSF 80 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

	BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"						
	ZONE	AREA	Vult 110 MPH	Vult 120 MPH	Vult 130 MPH	Vult 140 MPH	
27°	1 1 1	10 20 50	12.0 / -19.9 11.4 / -19.4 10.0 / -18.6	14.9 / -23.7 13.6 / -23.0 11.9 / -22.2	17.5 / -27.8 16.0 / -27.0 13.9 / -26.0	20.3 / -32.3 18.5 / -31.4 16.1 / -30.2	
7 1 TO	2 2 2	10 20 50	12.5 / -34.7 11.4 / -31.9 10.0 / -28.2	14.9 / -41.3 13.6 / -38.0 11.9 / -33.6	17.5 / -48.4 16.0 / -44.6 13.9 / -39.4	2 <i>0.</i> 3 / -56.2 18.5 / -51.7 16.1 / -45.7	
ROOF	3333	10 20 50	12.5 / -51.3 11.4 /-47.9 10.0 / -43.5	14.9 / -61.0 13.6 / -57.1 11.9 / -51.8	17.5 / -71.6 16.0 / -67.0 13.9 / -60.8	20.3 / -83.1 18.5 / -77.7 16.1 / -70.5	
WALL	4 4 4	10 20 50	21.8 / -23.6 20.8 / -22.6 19.5 / -21.3	25.9 / -34.7 24.7 / -26.9 23.2 / -25.4	30.4 / -33.0 29.0 / -31.6 27.2 / -29.8	35.3 / -38.2 33.7 / -36.7 31.6 / -34.6	
M/	0.0.0	10 20 50	21.8 / -29.1 2 <i>0.8</i> / -27.2 19.5 / -24.6	25.9 / -34.7 24.7 / -32.4 23.2 / -29.3	3 <i>0.</i> 4 /-4 <i>0.</i> 7 29. <i>0</i> / -38. <i>0</i> 27.2 / -34.3	35.3 / -47.2 33.7 / -44.0 31.6 / -39.8	

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING						
BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE			
15	1.00	1.21	1.47			
20	1.00	1.29	1.55			
25	1.00	1.35	1.61			
30	1.00	1.40	1.66			

REFER TO THE METAL BUILDING SHOP DRAWINGS AS PER "METALLIC BUILDING SYSTEMS, INC.", FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

ADDED FILL SHALL BE APPLIED IN 12" LIFTS -EA. LIFT SHALL BE CONPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR"

THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER 2020 FBC 7th ED. AND LOCAL JURISDICTION REQUIREMENTS

ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2014 FBC TABLE 503



AND TABLE 600

- (A) 22" × 18" × CONTINUOUS, FOOTING, W/ 2 #5 REBAR, TOP & BOTTOM, CONT., LAP SPLICE ALL REBAR A MINIMUM OF 30 BAR DIAMETERS - TYPICAL
- (B) 31" × 31" × CONTINUOUS, FOOTING, W/ 5 \*5 REBAR, TOP & BOTTOM, CONT., LAP SPLICE ALL REBAR A MINIMUM OF 30 BAR DIAMETERS BATTER SIDES OF FOOTING MIN, 15° -SEE SLAB DETAIL, BELOW
- OF 30 BAR DIAMETERS BATTER SIDES OF FOOTING MIN. 15

SHET:

# FOOTING SCHEDULE

- (c)  $37" \times 37" \times 12'-6"$ , FOOTING, W/ 6 #5 REBAR, TOP & BOTTOM, CONT., , LAP SPLICE ALL REBAR A MINIMUME ( SEE SLAB DETAIL, BELOW

OF AR)007005

:T OCT 2021

2K2152

CORM:

REVSION:

Coyright 2021 © N<sup>3</sup>. Geisler, Architect

DRAWN:



 $-4"\phi imes 1/2"$  STL. PLATE W. NUT

34" A.B.

WELDED TO ANC. BOLT

ALL ANCHOR BOLTS ARE ASTM GRADE A36

STEEL ROD, THREADED 3", OR GRADE A301,

BLACK, AND FREE FROM RUST AND SCALE

3/4" \$ A.B.

NOTE!

2" + X 1/8" STL. WASHER

WELDED TO ANC. BOLT

5/8" A.B.

# ANCHOR BOLT // FOUNDATION SIZING:

THE ANCHOR BOLT DIAMETERS 3 AND DEVELOPED LENGTHS INDICATED IN THIS DRAWING WERE DETERMINININED USING SHEAR FRICTION THEORY AS DESCRIBED IN AISC DESIGN GUILLIDE NO.7, SECTION 9.2, ASSUMING AN ANCHOR BOLT MATERIAL OF AS STM A301 OR A36. THE COMBINED FORCES ACTING AT THE BASE OF THE STITTEL FRAME RESULTING IN A VERTICAL REACTION ACTING UPON THE FOUNDATION WERE DEVELOPED AS FOLLOWS:

### T = Td + Tsf

T = TOTAL TENSILE FORCE PERENOLT Td = TENSILE FORCE PER BOLILT DUE TO DIRECTLY APPLIED LOAD = PN Tef = TENSILE FORCE PER BOLILT DUE TO SHEAR FRICTION = V / (n X u)

### P = P = TOTAL UPLIFT TO BE ! RESISTED BY ANCHOR BOLT GROUP V = V = TOTAL SHEAR FORCE E TO BE RESISTED BY ANCHOR BOLT GROUP

n = n = NUMBER OF ANCHOR E BOLTS u = U = COEFFICIENT OF FRICT TION (TAKEN AS 0.7 FOR UNGROUTED BASE PLATES OR 0.9 FOR GROUTED BASE PLATES)

## Foundation PLAN

SCALE: 3/16" = 1'-0"

SCALE: NONE

ALL DOOR/ENTRY OPENINGS INDICATED ARE NET SIZE, AND

REFER TO METAL BUILDING SHOP DRAWINGS FOR DETAIL

REQUIRE 2 \*3 ANCHOR BOLTS AT EACH SIDE OF THE OPENING

### ilder/Contractor Responsibilities

awing Validity — These drawings, supporting structural calculations and design certification are sed on the order documents as of the date of these drawings. These documents describe the aterial supplied by the manufacturer as of the date of these drawings. Any changes to the order cuments after the date on these drawings may void these drawings, supporting structural culations and design certification. The Builder/Contractor is responsible for notifying the building thority of all changes to the order documents which result in changes to the drawings, supporting ructural calculations and design certification.

ilder Acceptance of Drawings — Approval of the manufacturer's drawings and design data affirms at the manufacturer has correctly interpreted and applied the requirements of the order cuments and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of e order documents and standard product specifications, including its design, fabrication and quality teria standards and tolerances. (April 2010 Section 4.4.1)

de Official Approval — It is the responsibility of the Builder/Contractor to ensure that all project ans and specifications comply with the applicable requirements of any governing building authority. e Builder/Contractor is responsible for securing all required approvals and permits from the propriate agency as required.

ilding Erection — The Builder/Contractor is responsible for all erection of the steel and associated ork in compliance with the Métal Building Manufacturers drawings. Temporary supports, such as mporary guys, braces, false work or other elements required for erection will be determined, rnished and installed by the erector (April 2010 Section 7.10.3).

screpancies — Where discrepancies exist between the Metal Building plans and plans for other ades, the Metal Building plans will govern. (April 2010 Section 3.3)

<u>aterials by Others</u> — All interface and compatibility of any materials not furnished by the anufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. lless specific design criteria concerning any interface between materials if furnished as a part of e order documents, the manufacturers assumptions will govern.

odification of the Metal Building from Plans — The Metal Building supplied by the manufacturer has en designed according to the Building Code and specifications and the loads shown on this awing. Modification of the building configuration, such as removing wall panels or braces, from at shown on these plans could affect the structural integrity of the building. The Metal Building anufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to e building configuration shown on these drawings. The Metal Building Manufacturer will assume no sponsibility for any loads applied to the building not indicated on these drawings.

e Metal Building Manufacturer is not responsible for the design, materials and workmanship of the undation. Anchor rod plans prepared by the manufacturer are intended to show only location, ameter and projection of the anchor rods required to attach the Metal Building System to the undation. It is the responsibility of the end customer to ensure that adequate provisions are ade for specifying rod embedment, bearing values, tie rods and or other associated items abedded in the concrete foundation, as well as foundation design for the loads imposed by the etal Building System, other imposed loads, and the bearing capacity of the soil and other nditions of the building site. (MBMA 06 Sections 3.2.2 and A3)



7301 FAIRVIEEW . HOUSTON, TEXAS . P.O. BOX 40338 (713) 466 - 7788

For questions regarding the intererpretation of the drawings, materials provided, or assembly of the parts: • Call 1-844-840-4603 and ( ask for the "Field Service" department.

Before or after normal hours, you may send an email to <u>fieldservices@ncigroup.com</u>. Please include the order no., brief descriptition of the question, & contact name and phone number.

### ENGINEERING DESIGN CRITERIA

Building Code	2020 FLORIDA BUILDING CODE Normal (Risk Category II)	7TH EDITION / 2018 <sub>8 IBC</sub>	Mate of b or A
Roof Dead Load Superimposed	2.33 psf 5.00 psf		3/8" A572
(5.00 psf Other) Roof Live Load	20.00 psf reduction allowed	d	Extr ASTM than
Wind	120,00 mph		HSS
Ultimate Wind Speed (Vult) Nominal Wind Speed (Vasd)	92 mph (IBC section 1609, 3,	1)	Memb For
Serviceability Wind Speed Ground Elevation Factor	73 mph 1.00 (96 ft ASL)	1 1	ALL
Wind Exposure Category Exposure Coefficient (MWFRS) .	0. 701		for:
Exposure Coefficient (C & C). Enclosure Classification	0.585 Enclosed Building		meth tens
Wall lands for components not or	0.18/-0.18 rovided by building manufactions and the contractions are contracted as the contr	urer	Inst for
Zone 5 Areas (within 4.00' of co Zone 4 Areas (away from corners) These values are the maximum va Components with larger areas may	lues required based on a 10 :	1,38 pst suction	Design gand/
Seismic	4 00		nor desi
Seismic Importance Factor (Ie) Seismic Design Category Soil Site Class	1,00 B D Stiff Soil		spec projecons
0-	0 006 0 545	1 092 0	

5, EWD

0.086 g

H - Steel System not Specifically Detailed for Seismic Resistance

Sds .... 0.092 g Sd1 .... 0.082 g

SWA/SWC

### DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length.

Analysis Procedure ..... Equivalent Lateral Force

Basic Structural System (from ASCE 7-16 Table 12, 2-1)

BUIL DING	DEFLECTION	LIMITS	BL_DG-B
DOILDING	DELECTION	CITIZ TOTAL TATAL	DEDU D

Ss .....

Seismic Response Coefficient (Cs)

G - Cantilevered Column Systems

Design Base Shear in kips (V)

Column Line

\$1 ..... 0.051 g

Basic Force Resisting System 5, EWD Response Modification Coefficient (R) 3,00

Roof Limits		Rafters	Purlins	Panels
Live: Serviceability Wind: Total Gravity: Total Uplift:	L/	180 180 120 N/A	150 180 120 N/A	60 60 60
Frame Limits		Sidesway	FBCC Sio	lesway
Live: Serviceability Wind: Seismic Drift: FBCC Serviceability Wind: Total Gravity: Service Seismic:	H/ H/ H/	60 60 40 N/A 60 40	40 100 100	
Wall Limits		Limit		
Total Wind Panels: Total Wind Girts: Total Wind EW Columns:		60 90 120		

### FLORIDA APPROVAL #

The Service Seismic limit as shown here is at service level loads.

FL:	118	19.	5
PBF	R	OOF	PANEL

L11917. 2 AVP WALL PANEL

FL22211 WALK DOORS

FL6964. 3 DBCI DOOR 5000 SERIES

erial properties of steel bar, plate, and sheet used in the fabrication built-up structural framing members conform to ASTM A529, ASTM A572, ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and cker than 3/8", all flanges thicker than 1", and all webs thicker than are 50 ksi min, yield. Rod X-bracing conforms to ASTM A529 or ASTM 72 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand tra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, IM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other an flange braces, conform to ASTM A36 minimum. Round and rectangular conforms to ASTM A500 Grade B. Cold-formed steel secondary framing pers conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield. Canada, material properties conform to CAN/CSA G40.20/G40.21 or equivalent.

bolted joints with A325 Type 1 bolts are specified as snug-tightened nts in accordance with the most recent edition of the RCSC Specification Structural Joints Using ASTM A325 or A490 Bolts. Pre-tensioning nods, including turn-of-nut, calibrated wrench, twist-off-type sion-control bolts or direct-tension-indicator are NOT required. tallation inspection requirements for Snug Tight Bolts (Specification Structural Joints Section 9. 1) is suggested.

gn criteria as noted is as given within order documents and is applied peneral accordance with the applicable provisions of the model code or specification indicated. Neither the metal building manufacturer the certifying engineer declares or attests that the loads as gnated are proper for local provisions that may apply or for site Ific parameters. The design criteria is supplied by the builder, ject owner, or an Architect and/or Engineer of Record for the overall construction project.

This metal building system is designed as an Enclosed Building. Exterior and/or operable components including, but not limited to, doors, windows, vents, etc. ("Components") must be designed to withstand the required component and cladding wind pressures specified by the building code. In order to maintain the metal building system's Enclosed Building condition, all Components shall be closed when wind velocities reach half the designed wind load for the metal building system as shown on the drawings and design criteria documentation. Failure to maintain the metal building system's Enclosed Building condition will violate and void all warranties and certifications applicable to the material supplied by the metal building manufacturer.

Framed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

Roof and wall panels have been designed in accordance with section 2222. 4 of the Florida Building Code, 7th Editiion (2020) Product approval numbers for the State of Florida, Department of Community Affairs per Product Rule 9B-72: 1. Panel Walls

FL11917. 2 AVP 26 gauge walls 2. Roofing Products FL11819. 5 PBR 26 gauge roofs

Wall accesories have been designed in accordance with section 2222. 4 of the Florida Building Code, 7th Edition (2020) Product approval numbers for the State of Florida, Department of Community Affairs per Product Rule 9B-72:

FL17900. 2 Telstar 3070, Wind-rated to +/- 50 psf, Non-Impact-rated 2. DBCI Overhead doors FL6964, 3 Series 5000 Commercial Roll Up Door with wind locks

This project is designed using manufacture's standard serviceability standards. Generally this means that all deflections are within typical performance limits for normal occupancy and standard metal building products.

Using 5 x 5 eave gutter with 4 x 5 downspouts, the roof drainage system has been designed using the method outlined in the MBMA Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be placed on the building sidewalls at a spacing not to exceed 28 feet with the first downspout from both ends of the gutter run within 14 feet of the end. Downspout spacing that does not exceed the maximum spacing will be in compliance with the building code. The gutter and downspout system as provided by the manufacturer is designed to accommodate 10 in/hr rainfall intensity.

The common wall at the existing building is to remain sheeted.

### PROJECT NOTES

	0	8	S			1 1
Page	Description	0	X	+-		
		By	BSL			
F1	Anchor Rod		100	++	1	
F2	Anchor Rod Details	,				
F3	Reaction Drawings					
E1	Cover Sheet	-	-			
E2	Primary Steel BLDGB					
E3	Roof Framing BLDGB	- 2				
E4	Roof Sheeting	otio	=			
E5	Sidewall BLDGB WALLSWA	Description	PERMIT			
E6	Sidewall BLDGB WALLSWC	De				
E7	Endwall BLDGB WALLEWD		E			
E8	Main Frame Cross Section		300			
E9	Connection Detail		CONSTRUCTION			
R1-R3	Erection Guides					
R4-R14	Construction Drawings		FOR			
R15	Trim Profiles		/21			
		Date	08/23,			
		ion				

Drawing Index

7301 FAIR BUILDING SYSTEMS	7301 FAIRVIEW • HOUSTON, TEXAS • P.O. BOX 40338 ZIP 77041 (713) 466—7788 ZIP 77240
Sustomer: SIMQUE CONSTRUCTION O BOX 2962 AKE CITY ,FL 32056—2962 US	Project Name & Location: DIY LETTERING 215 SW WINDSWEPT GLN LAKE CITY ,FL 32024—0693 U
rawing Status: Preliminary (Not For Construction)	tion)   For Construction F

0 E E E E NOT TO SCALE Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21 Project Engineer: MJ Job Number: 18-B-30506

Sheet Number: E1 of 9

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.







Download panel installation manuals from: www.CBBmanuals.com

Descargue los manuales de instalación del panel desde: www.CBBmanuals.com

### BUILDING DESCRIPTIONS Building ID | Width | Length | Height | Slope Building B 75'-0 40'-0 16'-0 1:12

	2	
GRIP	LENGTH	BOLT LEN
0 TO 9/16"	1 1/4" F.T.	
ver 9/16" TO 1 1/16"	1 3/4" F.T.	
ver 1 1/16" TO 1 5/16"	2"	
ver 1 5/16" TO 1 9/16"	2 1/4"	
ver 1 9/16" TO 1 13/16"	2 1/2"	MA
ver 1 13/16" TO 2 1/16"	2 3/4"	GRIP
OCATIONS OF BOLTS LONGER		

. DENOTES FULLY THREADED

1" Ø A325 BOLT GRIP TABLE (UNLESS NOTED) NOTE: FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.

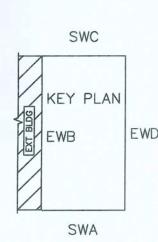
> WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.

### Anchor Rod Drawings

- This drawing is for anchor rod placement only and is not foundation design.
   Foundation must be square and level with all anchor rods true in size, location,
- 3) Projection.
   4) This structural design data includes magnitude and location of design loads and support conditions, material properties, and type and size of major structural members necessary to show compliance with the Order Documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and locations shown. This structural design data will be superseded
- and voided by any future mailing.

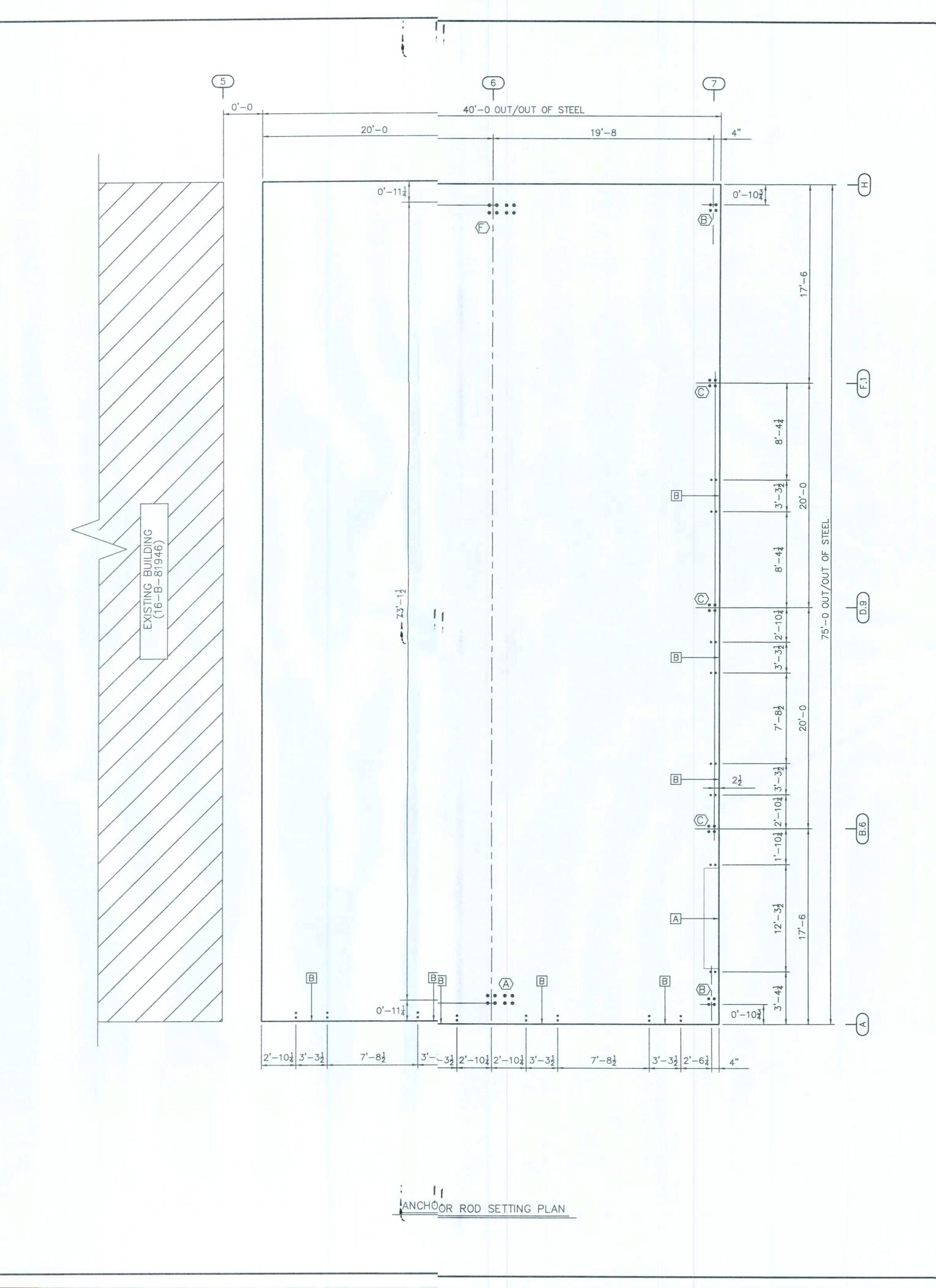
  5) Anchor rod size is determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer, and are not provided by the manufacturer.
- 6) Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.
  7) 3000 psi concrete compressive strength (f'c) is assumed for the purpose of column base plate design unless otherwise noted.

FINISH FLOOR AT ELEVATION 100'-0

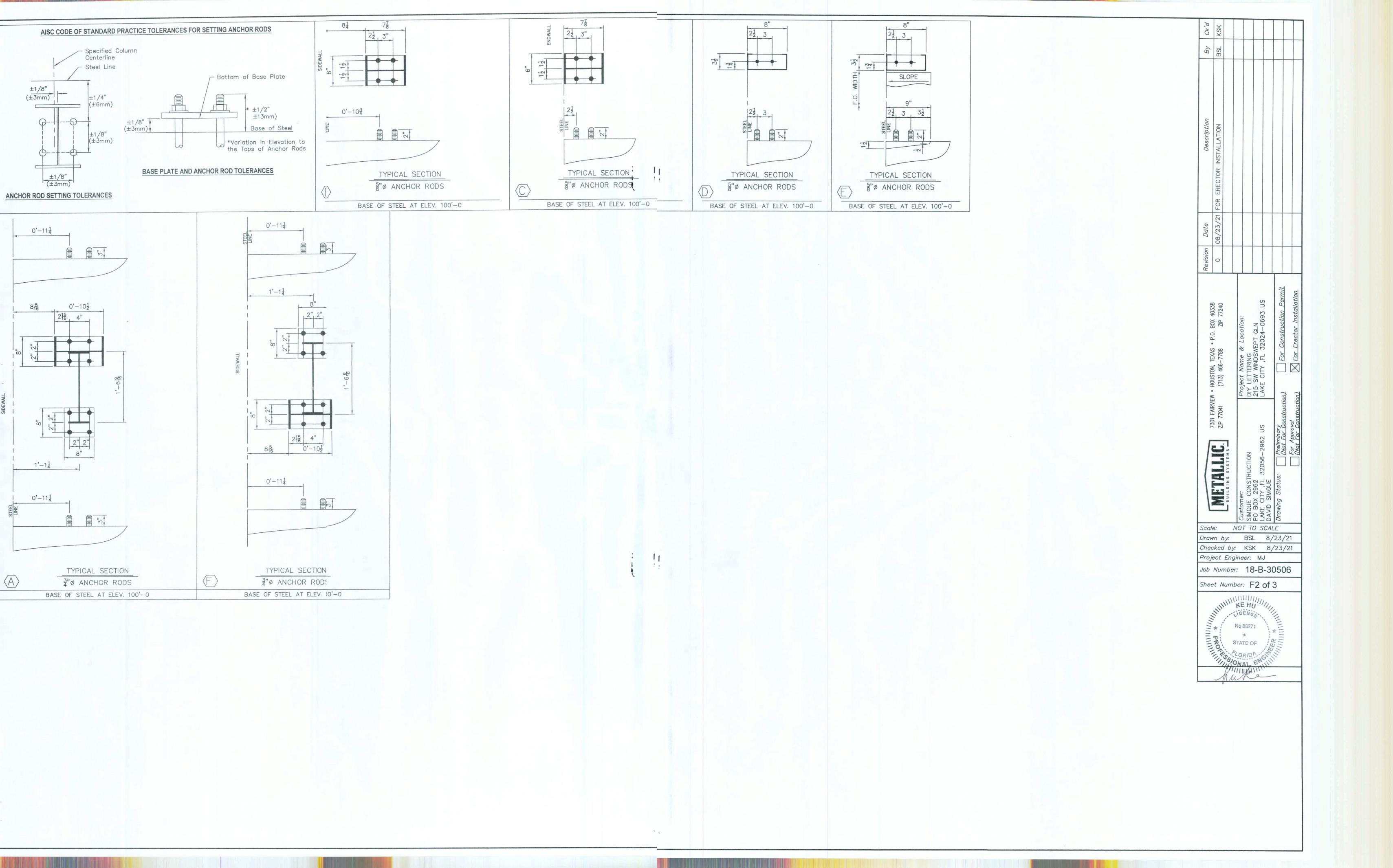


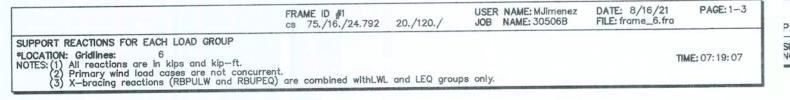
	ACCESSORY SCHEDULE		
MARK	DESCRIPTION	DETAIL	QUAN.
A	12'-0 X 12'-0 FRAMED OPENINGS	E	1
B	3'-0 X 5'-0 FRAMED OPENINGS	(D)	7

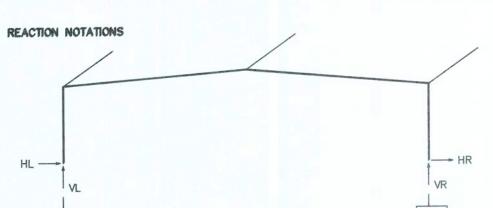
BY FOUNDATION ENGINEER US DIAMETERS SHOWN IN THIS T	SING
ANCHOR ROD DESCRIPTION	QUANTITY
§ "ø DIAMETER X	52
¾ "ø DIAMETER X	16



	School State   Construction   Constr		Ck'd	KSK							
FAIRVIEW • HOUSTON, TEXAS • P.O. BOX 40338         Revision         Date           77041         (713) 466-7788         ZIP 77240         O 88/23/21         FOR ERECTOR INST           Project Name & Location:         DIY LETTERING         ETTERING         ETTERING         ETTERING           215 SW WINDSWEPT GLN         LAKE CITY ,FL 32024-0693 US         LAKE CITY ,FL 32024-0693 US         Extraction)         For Construction Permit           struction)         X For Erector Installation         Extraction         A For Erector Installation	Scale States: Single Construction   For Approval	Scale And Project Name & Location:    Customer:   Diy LETTERING   Date	By	BSL							
FAIRVIEW • HOUSTON, TEXAS • P.O. BOX 40338  77041 (713) 466–7788 ZIP 77240  Project Name & Location: DIY LETTERING 215 SW WINDSWEPT GLN LAKE CITY ,FL 32024–0693 US  struction)  Eor Construction  Struction)  Struction	Scale:    Customer:   Customer	Scales And Status: Preliminary Preliminary Previous Status: Weeking Status: We	Description	FOR ERECTOR INSTALLATION							
FAIRVIEW • HOUSTON, TEXAS • P.O. BOX 40338 77041 (713) 466–7788 ZIP 77240  Project Name & Location: DIY LETTERING 215 SW WINDSWEPT GLN LAKE CITY ,FL 32024—0693 US  struction)  Eor Construction Permit  Struction)  Struction	Scale:    Customer:   Customer	Scale:    Customer:   Customer	Date	08/23/21							
FAIRVIEW • HOUSTO 77041 (713) 4 Project ADIY LETTE 215 SW V LAKE CIT Struction)	Scale: Drawing Status: Status: Wellminary Construction)  T301 FAIRVIEW - HOUSTO  T301 FAIRVIEW - HOUSTO  T301 FAIRVIEW - HOUSTO  T301 FAIRVIEW - HOUSTO  ZIP 77041 (713) 4  ZIP 77041 (7	Scale: Drawing Status: Status: Wellminary Construction)  T301 FAIRVIEW - HOUSTO  T301 FAIRVIEW - HOUSTO  T301 FAIRVIEW - HOUSTO  T301 FAIRVIEW - HOUSTO  ZIP 77041 (713) 4  ZIP 77041 (7	Revision	0							
0 0/ 1 1 1 1	Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21 Project Engineer: MJ Job Number: 18-B-30506 Sheet Number: F1 of 3	Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21 Project Engineer: MJ Job Number: 18-B-30506 Sheet Number: F1 of 3	,_						( )		
	Sheet Number: F1 of 3	Sheet Number: F1 of 3							/23,	/2	1
	KE HU TIGENSE	KE HU TIGENSE	Job	Number	:	18	3-E	3-30	)5(	)6	5
Project Engineer: MJ	No 88271  * STATE OF  STAT	No 88271  **  No 88271  **  STATE OF  **  **  **  **  **  **  **  **  **	Shee	t Numb	er	F	-1	of :	3	_	
Project Engineer: MJ  Job Number: 18-B-30506	111 111 111		THE STREET	O Trusto	CE OS *	HUNS:	FETTO	III SEED & THE SEED OF THE SEE	-		







LOAD GROUP	REACTION	TABLE	GRIDLINES	* =	
COLUMN		*-H			*.

COLUMN		*-H		*-A		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR
DL	2.6	3.4	0.0	-2.6	3.4	0.0
LL	9.6	11.2	0.0	-9.6	11.2	0.0
COLL	4.0	4.6	0.0	-4.0	4.6	0.0
EQ	-0.3	-0.1	0.0	-0.4	0.1	0.0
WL1	-15.2	-17.0	0.0	8.4	-11.9	0.0
WL2	-10.5	-9.7	0.0	3.7	-4.6	0.0
L.WL1	-9.3	-16.0	0.0	9.8	-12.9	0.0
LWL2	-9.8	-12.9	0.0	9.3	-16.0	0.0
LWL3	-4.6	-8.7	0.0	5.2	-5.6	0.0
LWL4	-5.2	-5.6	0.0	4.6	-8.7	0.0
WL3	-8.4	-11.9	0.0	15.3	-17.0	0.0
WI 4	-3.8	-4.6	0.0	10.6	-9.7	0.0

### LOAD GROUP DESCRIPTION

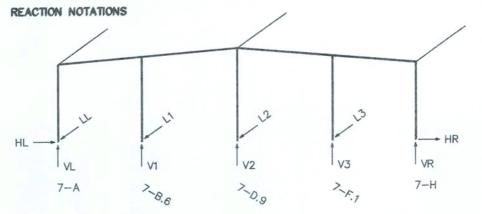
DL	:	Roof	Dead Load
LL	:	Roof	Live Load

Roof Collateral Load Lateral Seismic Load [parallel to plane of frame] Wind from Left to Right with +GCpi

Wind from Left to Right with -GCpi Windward Corner Left with +GCpi LWL1 Windward Corner Right with +GCpi LWL3 Windward Corner Left with -GCpi

: Windward Corner Right with -GCpi LWL4 : Wind from Right to Left with +GCpi WL4 : Wind from Right to Left with -GCpi

USER NAME: MJimenez DATE: 8/16/21 PAGE: EW-1
JOB NAME: 30506B FILE: REW4BLDG1 FRAME DESCRIPTION: PATH: R:\jobs\Active\Eng\18-B-30506\ver02-mjimenez\BLDG-B\run01\ SUPPORT REACTIONS FOR EACH LOAD GROUP NOTE: All reactions are in kips and kip—ft. TIME: 07: 20: 55



COLUMN		7-A			7-B.6			7-D.9			7-F.1			7-H	
LOAD GROUP	HL	VL	LL	H1	V1	L1	H2	V2	L2	Н3	V3	L3	HR	VR	LR
D	0.0	0.4	0.	0.	0.9	0.	0.	0.7	0.	0.	0.9	0.	0.0	0.4	
C	0.0	0.3	0.	0.	1.2	0.	0.	0.8	0.	0.	1.2	0.	0.0	0.3	
L	0.0	1.4	0.	0.	4.6	0.0	0.	3.2	0.0	0.	4.6	0.0	0.0	1.4	
W+	-0.1	-2.5	1.1	0.	-7.3	2.4	0.	-4.9	2.8	0.	-7.3	2.4	0.1	-2.5	
W	-0.1	-2.5	-1.3	0.	-7.3	-2.7	0.	-4.9	-3.1	0.	-7.3	-2.7	0.1	-2.5	
WR	1.4	-2.5	0.	0.	-7.3	0.0	0.	-4.9	0.0	0.	-7.3	0.0	0.1	-2.5	
WL	-1.2	-2.5	0.	0.	-7.3	0.0	0.	-4.9	0.0	0.	-7.3	0.0	0.1	-2.5	
W16+	0.	0.	0.	0.	0.	2.5	0.	0.	3.0	0.	0.	2.5	0.	0.	
E+	0.	0.	0.	0.	0.	0.0	0.	0.	0.1	0.	0.	0.0	0.	0.	
E-	0.	0.	0.	0.	0.	0.0	0.	0.	-0.1	0.	0.	0.0	0.	0.	

### LOAD GROUP DESCRIPTION

: Dead load Collateral load

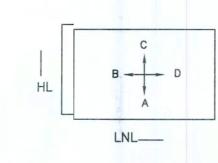
Live load Wind load as an inward acting pressure Wind load as an outward acting suction

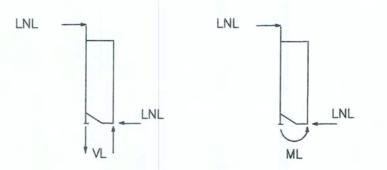
Wind force from the right Wind force from the left

Min. 16 psf wind as an inward acting pressure

Seismic force acting inward : Seismic force acting outward SUPIPPORT REACTIONS FOR EACH LOAD Case NOTETES: (1) All reactions are in kips and kip—ft.

RE-EACTION NOTATIONS





VL reactions will create a couple resulting in a MOMENT (ML) to be transferred by the foundation. The foundation design professional shall consider these forces in the design of the foundation.

### LOOD CASE REACTION TABLE

COLUMN		2	
OAD Case	LNL	VL	ML
LEQ	1.10	10.48	15.99
LWL	4.53	43.07	65.73

Note te: Reactions are provided based on longitudinal forces acting left to right only. The e value of the reactions are the same but opposite when forces act right to left thus uplift is applicable at both sides of the fixed base cantilever column.

### Prinrimary Load Cases

LEQ : Longitudinal Earthquake Load Case LWL: Longitudinal Wind Load Case

JOB NAME: 18-B-30506

1) THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS

THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING. 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE

FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE).

a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.

b) RIGID FRAMES (1) GABLED BUILDINGS

(a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING

LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING, FROM THE OUTSIDE OF THE BUILDING.

(b) INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.

(2) SINGLE SLOPE BUILDINGS

(a) LEFT COLUMN IS THE LOW SIDE COLUMN. (b) RIGHT COLUMN IS THE HIGH SIDE COLUMN.

(c) INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH

c) ENDWALLS

(1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE WALL FROM THE OUTSIDE.

(2) INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT. d) ANCHOR ROD SIZE IS DETERMINED BY SHEAR AND TENSION AT THE

BOTTOM OF THE BASE PLATE. THE LENGTH OF THE ANCHOR ROD AND METHOD OF LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY THE FOUNDATION ENGINEER. e) ANCHOR RODS ARE ASTM F1554 Gr. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.

f) X-BRACING (1) ROD BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES

SHOWN IN THE REACTION TABLES.

(2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ AND RBDWEQ) DO NOT INCLUDE THE AMPLIFICATION FACTOR,  $\Omega_0$ .

(3) FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ & RBDWEQ) ARE MULTIPLIED BY FORCE REDUCTION FACTOR, Rd, WHEN SPECIFIED SHORT-PERIOD SPECTRAL ACCELERATION RATIO IEFOSO(0.2) IS GREATER THAN 0.45.

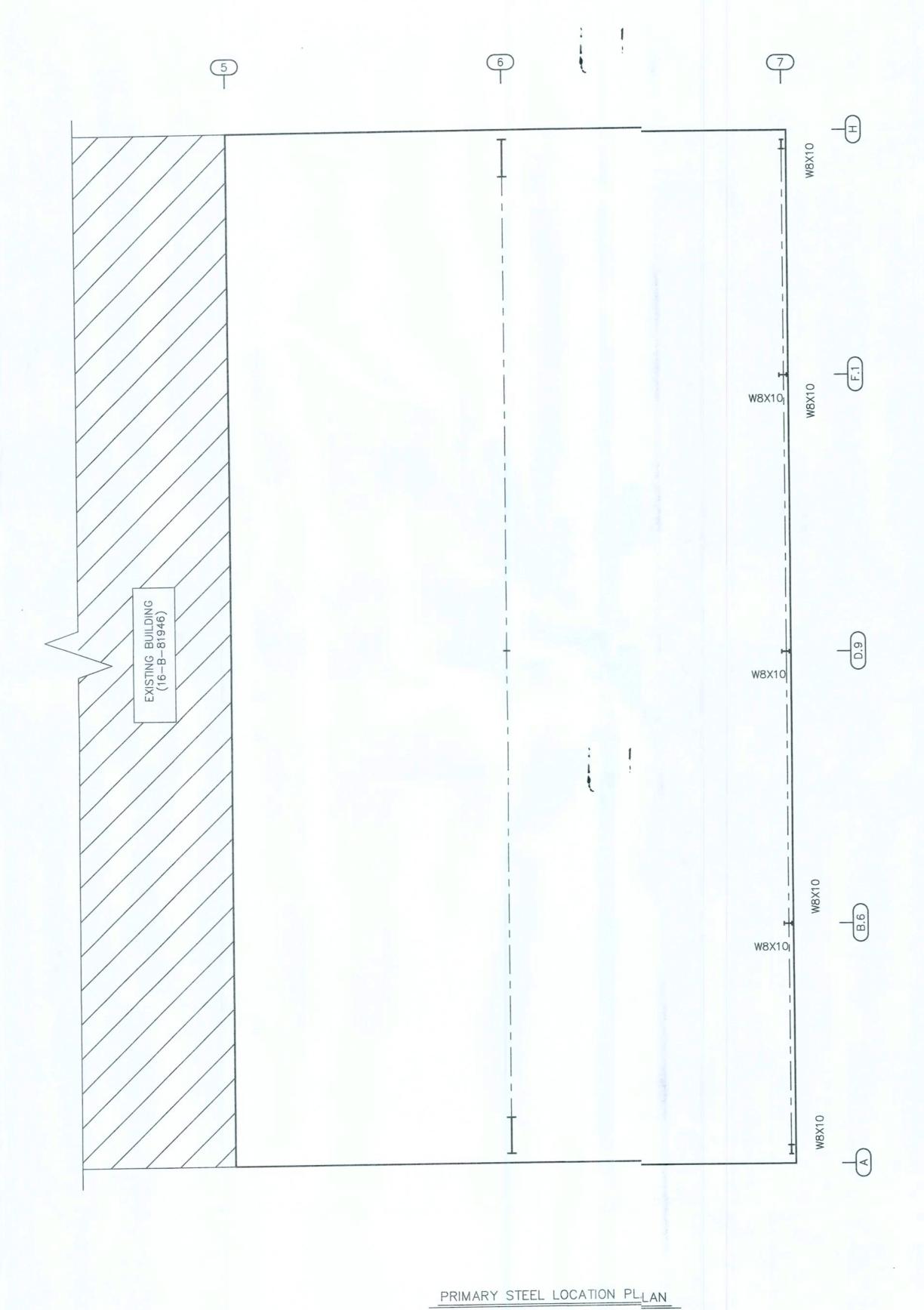
3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD

APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION

a) FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC, 2015 IBC, OR FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A STRENGTH VALUE WITH A LOAD FACTOR OF

b) FOR IBC CODES, THE SEISMIC REACTIONS PROVIDED ARE AT A STRENGTH LEVEL AND DO NOT CONTAIN THE RHO FACTOR. c) FOR NBCC CODES, THE SEISMIC REACTIONS PROVIDED DO NOT

CONTAIN THE  $R_d*R_o$  FACTOR. THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.



UILDING SYSTEMS Scale: NOT TO SCALE Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21 Project Engineer: MJ Job Number: 18-B-30506 Sheet Number: E2 of 9 The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

No 88271

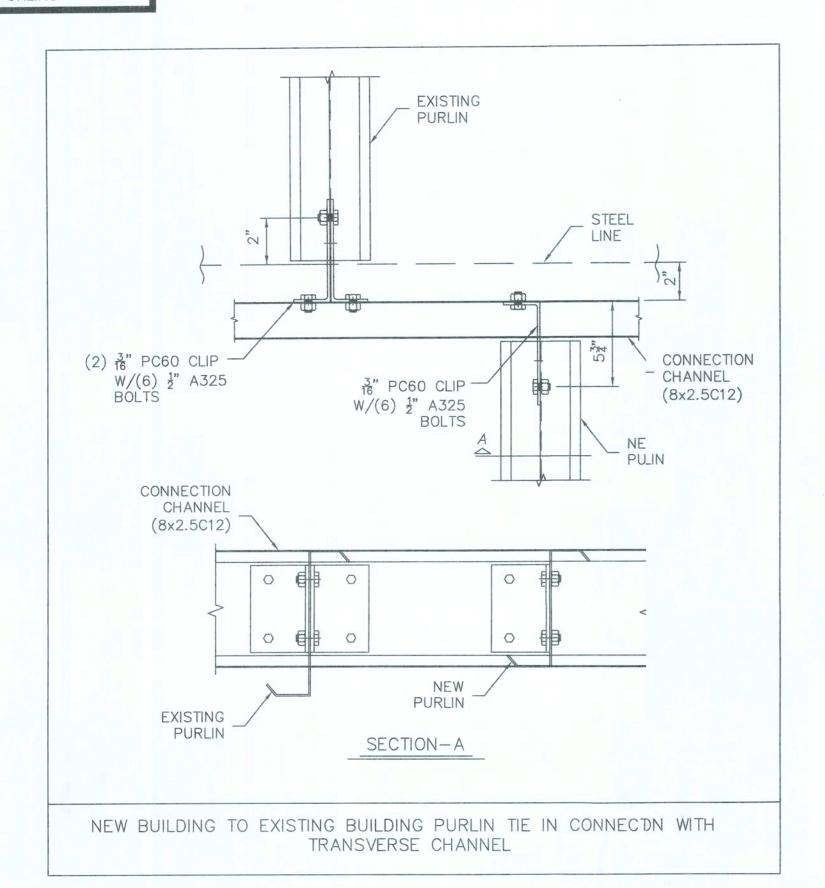
\* STATE OF STATE OF

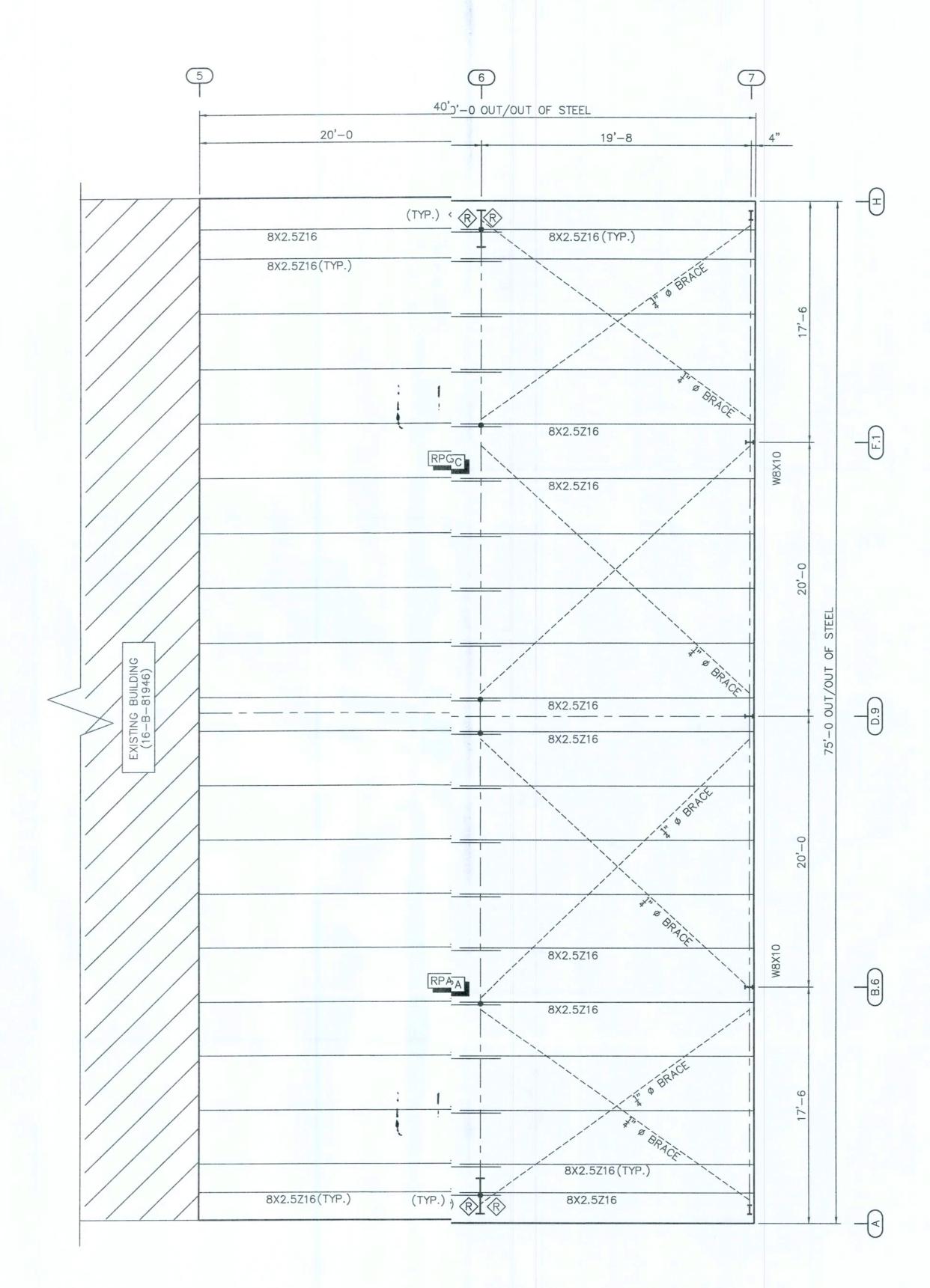
SWC

KEY PLAN EWD
EWB

\_\_\_\_

 DENOTES: CLIP LOCATION SC90 AT 8" PURLINS SC92 AT 10" PURLINS SC94 AT 12" PURLINS





BUILDING SYSTEMS NOT TO SCALE Scale: Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21 Project Engineer: MJ Job Number: 18-B-30506 Sheet Number: E3 of 9 The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

No 88271 STATE OF

KEY PLAN EWD SWA

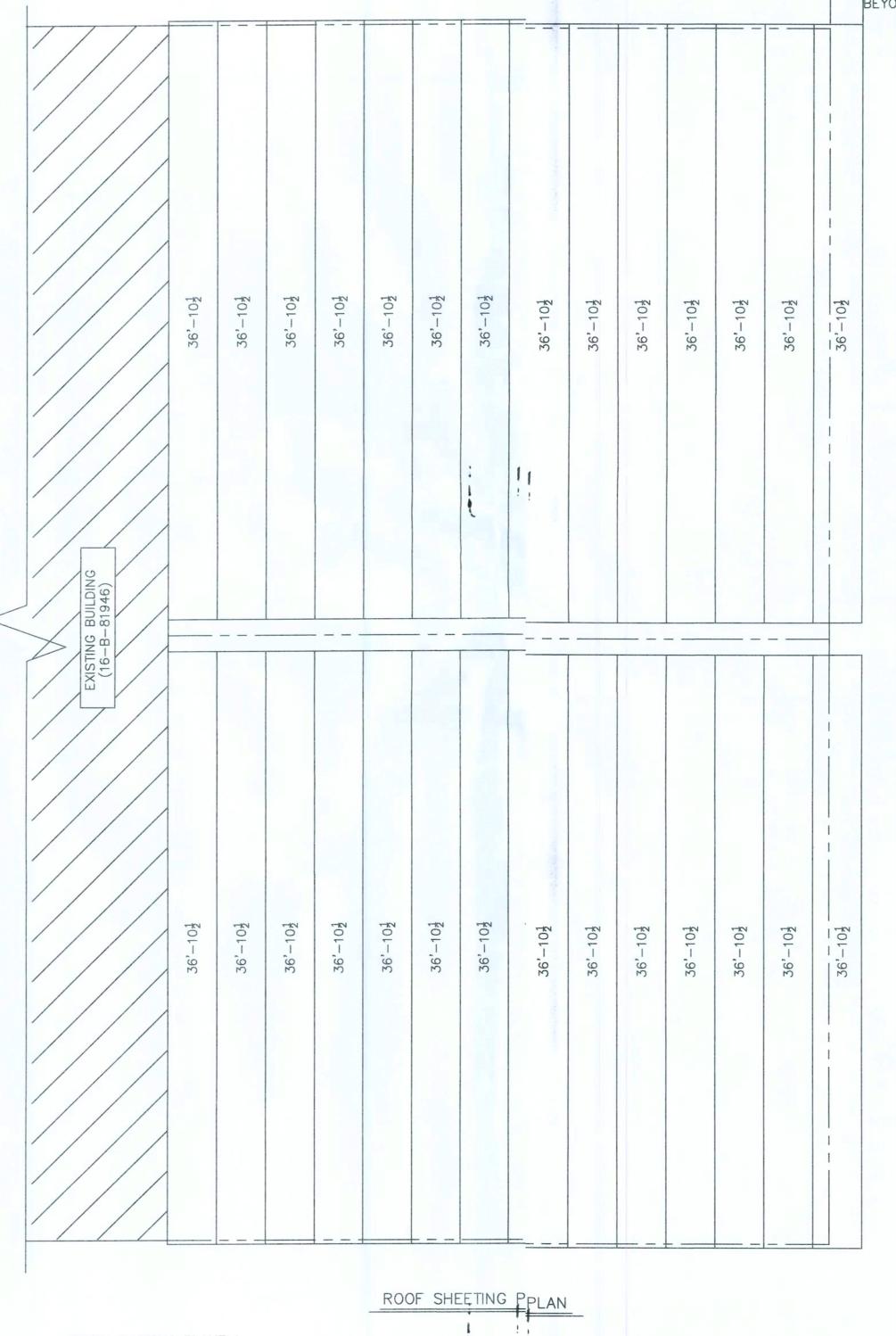
SWC

	ZEE SECTION	LAP TA	BLE		
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH		
©	-0'-0 <del>1</del> "	<b></b>	$2'-5\frac{3}{4}"$		
\$	$0'-3\frac{3}{4}"$	$\Diamond$	3'-13"		
8	1'-5¾"	REFER	TO CF01122		
		7.1			

Non-Standard PBR Roof Panel Fasteners

#1E member fasteners are to be used for panel to secondary attachment in lieu of #3 shown on the R Drawings

ROOF SHEETING PLANE 2 PANEL TYPE = PBR (POLAR WHITE) PANEL OVERHANG = 3" FROM OUTER STEEL



ROOF SHEETING PLANE 1
PANEL TYPE = PBR (POLAR WHITE)
PANEL OVERHANG = 3"
FROM OUTER STEEL

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project. No 88271 STATE OF

BUIL DING SYSTEMS

Scale: NOT TO SCALE

Project Engineer: MJ

Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21

Job Number: 18-B-30506

Sheet Number: E4 of 9

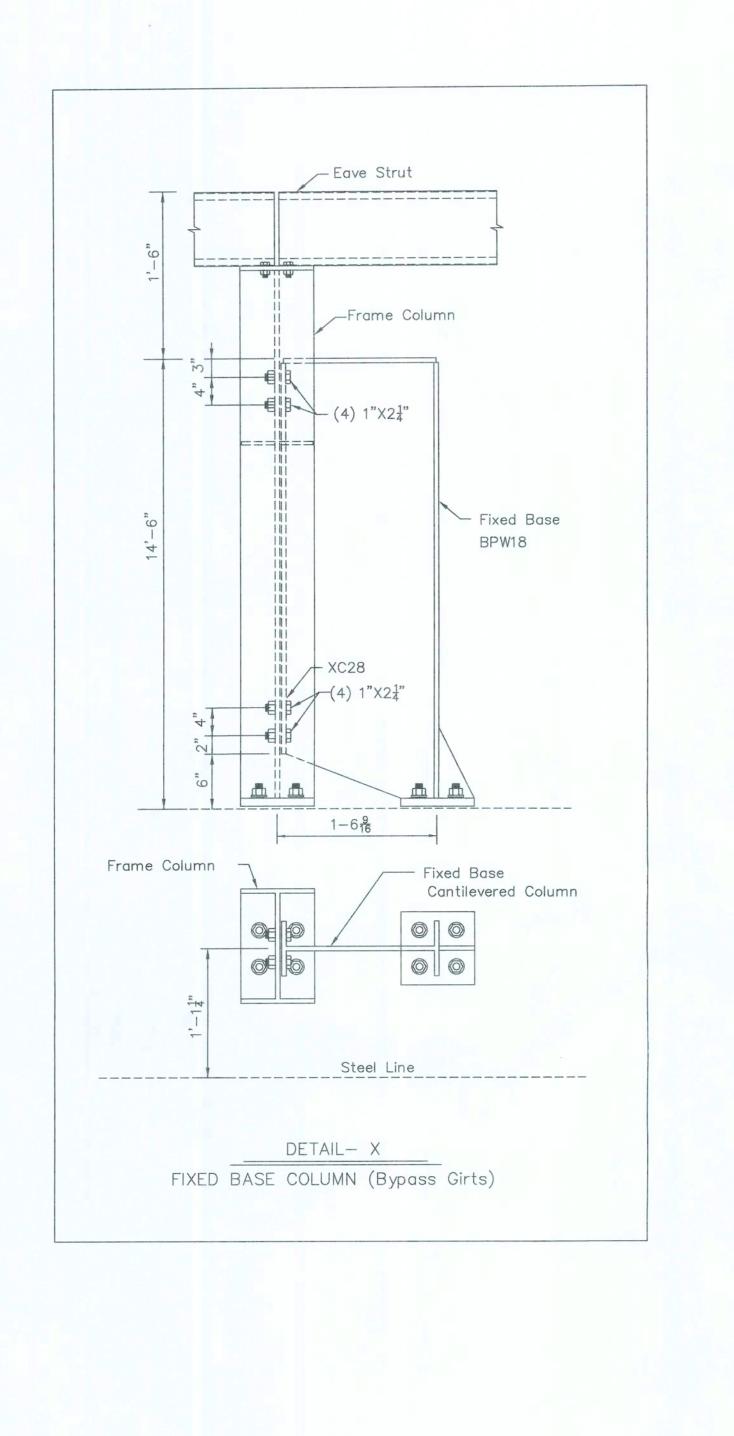
SWC EMB EMD

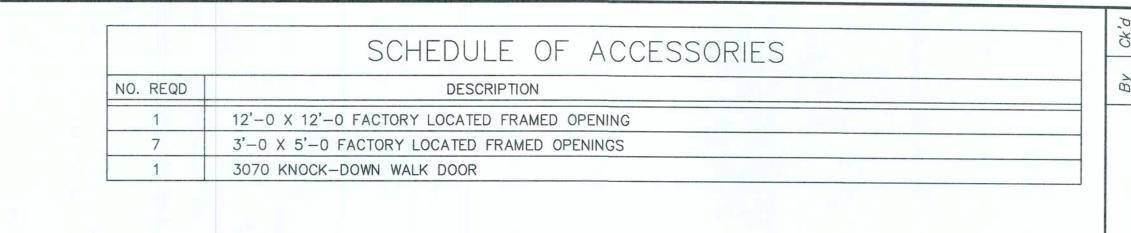
SWA

DOWNSPOUT LAYOUT [4 REQ'D]

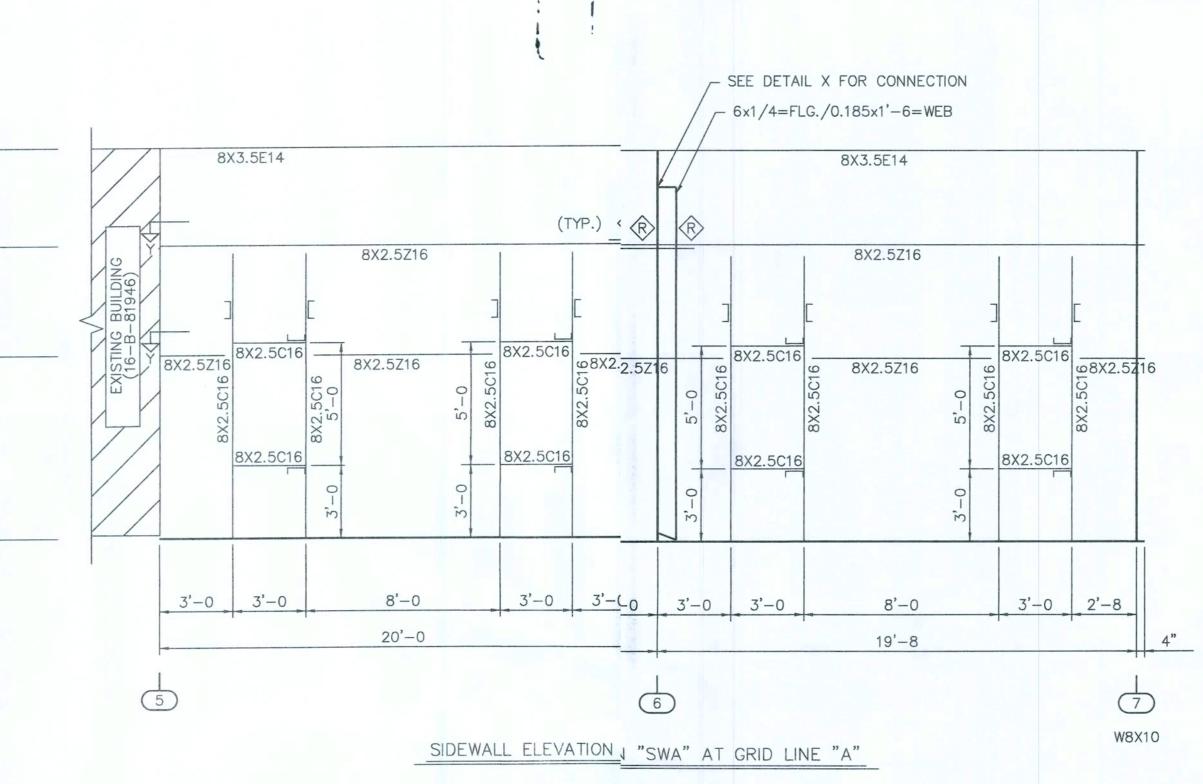
Note; The downspouts are to be place on

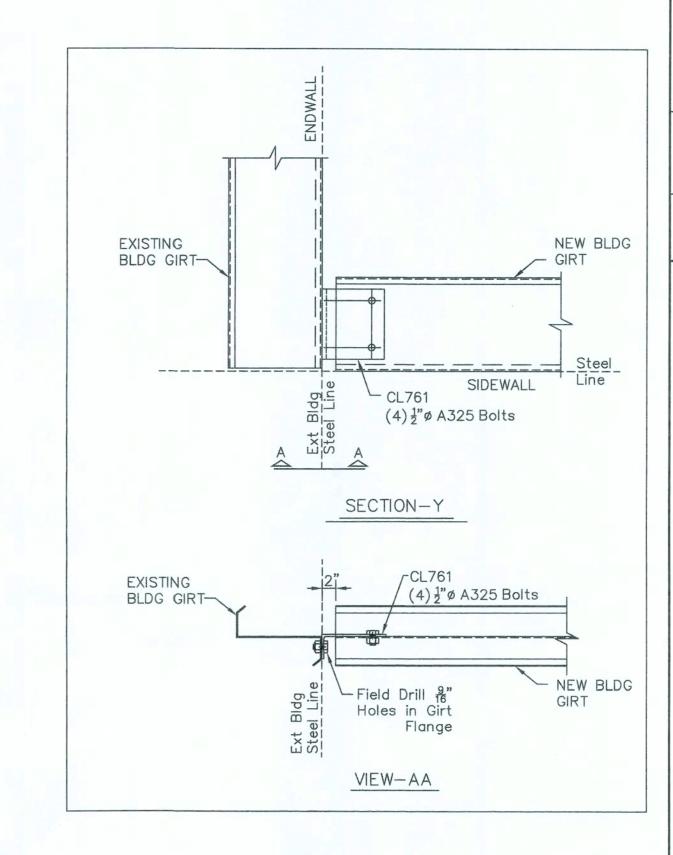
the building sidewalls at a spacing not to excee(28 feet with the first downspout from both ends of the gutt run within 14 feet of the end.





REFER TO DETAILS ON INSTALLATION OF WALK DOOR. REFER TO DETAILS ON INSTALLATION OF FRAMED OPENINGS.
USE STANDARD WALL PROCEDURES TO ERECT THE SIDEWALL AND ENDWALL PANELS.





15'-11½ (TYP.)	
6" BEYOND	2'-0 6" BACKLAP

AVP WALL PANELS PANEL COVERAGE = 3'-0 COLOR = ASH GRAY PNEL PKG. REQ'D. = AVS-2eld Cut Panel and Trim as requid per Construction Details

> WALL SHEETING ELEVATION "SWA" BLILDG "B"

KEHU -LICENSE .. No 88271 STATE OF

Project / DIY LETT 215 SW LAKE CIT

NOT TO SCALE

Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21

Job Number: 18-B-30506

appears hereon is an employee for the manufacturer for the materials described herein. Said

seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Project Engineer: MJ

Sheet Number: E5 of 9

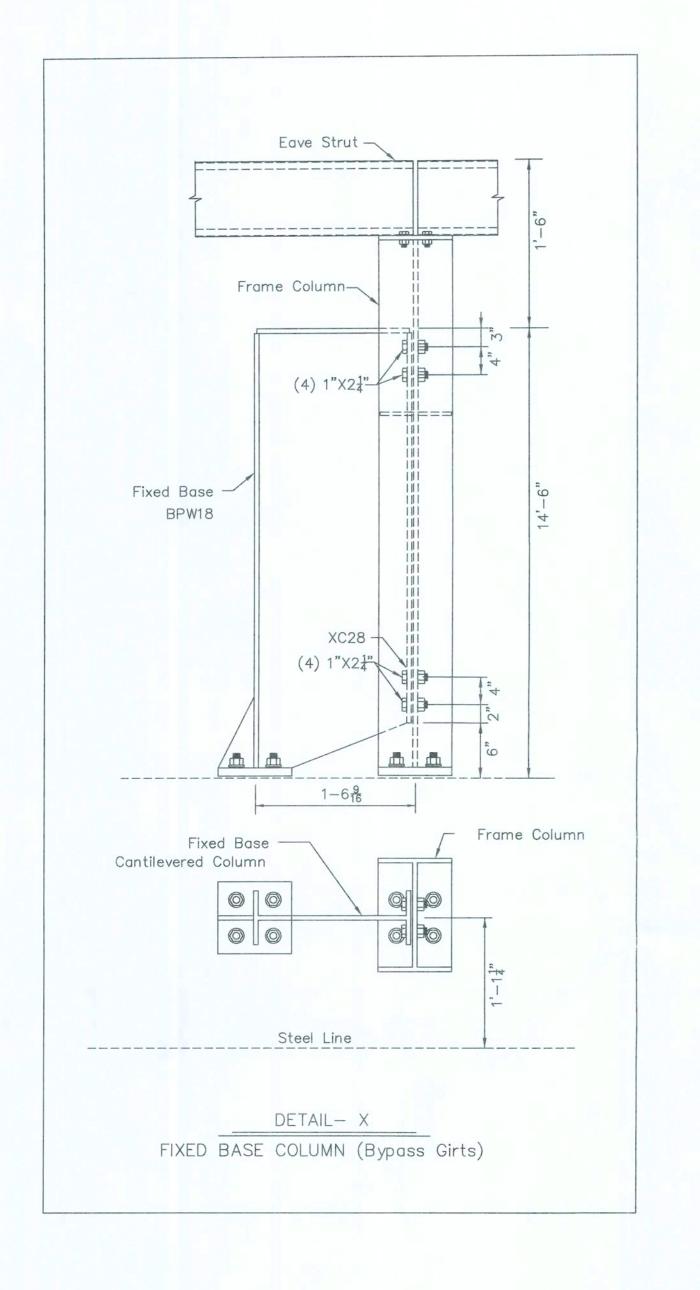
The engineer whose seal

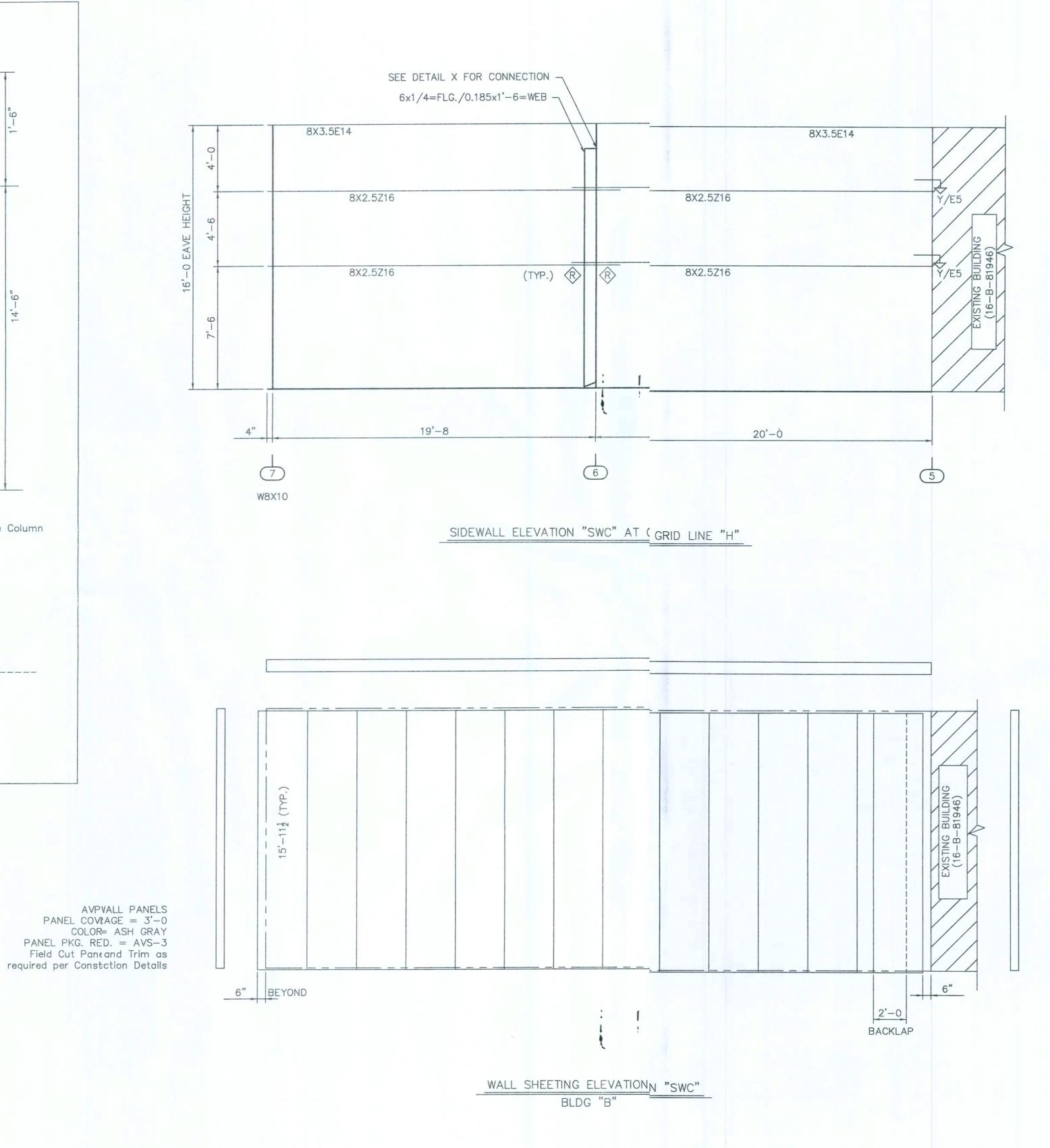
BUILDING SYSTEMS

ZEE SECTION LAP TABLE KEY PLAN EWD SYMBOL LAP LENGTH SYMBOL LAP LENGTH 1'-5<sup>3</sup>" REFER TO CF01122

 $\begin{array}{cccc}
 & 2' - 5\frac{3}{4}" \\
 & 3' - 1\frac{3}{4}"
\end{array}$ 

SWC





DING SYSTEMS Scale: NOT TO SCALE Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21 Project Engineer: MJ Job Number: 18-B-30506 Sheet Number: E6 of 9 The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

SWC

KEY PLAN EWD SYMBOL LA

ZEE SECTION LAP TABLE

SYMBOL LAP LENGTH SYMBOL LAP LENGTH  $\bigcirc$   $-0'-0\frac{1}{4}"$   $\bigcirc$   $2'-5\frac{3}{4}"$   $\bigcirc$   $0'-3\frac{3}{4}"$   $\bigcirc$   $3'-1\frac{3}{4}"$   $\bigcirc$   $1'-5\frac{3}{4}"$  REFER TO CF01122

SWA

SPLICE BOLT TABLE  CONN. QTY. SIZE TYPE HARDENED BEVELED WASHERS  A (2) ½ X 1¾ A325 B&N 0 0  B (4) ½ X 1¾ A325 B&N 4 0  C (4) ¾ X 1¾ A325 B&N 0 0  D (4) ½ X 1¾ A325 B&N 0 0  E (4) ½ X 1¾ A325 B&N 0 0		By Ck'd BSL KSK
16'-0 FAVE HEIGHT	8X3.5C12 8X3.5C12 8X3.5C12 8X2.5Z16 8X2.5Z16 8X2.5Z16 8X2.5Z16 8X2.5Z16 8X2.5Z16 8X2.5Z16 8X2.5Z16 8X2.5Z16	XAS • P.O. BOX 40338 A O8/23/21 FOR CONSTRUCTION PERMIT FOR CONSTRUCTION PERMIT S & Location: G SWEPT GLN L 32024—0693 US or Erector Installation.
	3'-6 12'-0 2'-0 3'-0 8'-0 3'-0 8'-6 3'-0 8'-6 17'-6  A	7301 FAIRWIEW • HOUSTON, TEX BUILDING SYSTEMS  Customer: SIMQUE CONSTRUCTION PO BOX 2962 LAKE CITY ,FL 32056-2962 US LAKE CITY ,FL 32056-2962 US DAVID SIMQUE  Drawing Status:    For Approval   For Construction   For Approval   For Construction   For Constructi
AVP WALL PANELS PANEL COVERAGE = 3'-0 COLOR = ASH GRAY PANEL PKG, REQ'D. = AVS-1 Field Cut Panel and Trim as required per Construction Details	16-52 18-62 18-63 18-63 18-63 18-63 18-63 18-63 18-63 18-63 18-63 18-63 18-63 18-63 18-63 18-63	Scale: NOT TO SCALE  Drawn by: BSL 8/23/21  Checked by: KSK 8/23/21  Project Engineer: MJ  Job Number: 18-B-30506  Sheet Number: E7 of 9  The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.
Field Cut Panel and Trim as required per Construction Details  SWC  KEY PLAN EWD  SWA	BEYOND    2-0   BACKLAP    BEYOND    WALL SHEETING'S ELEVATION "EWD"   BLDDG "B"	No 88271  * STATE OF  STATE OF  *  *  *  *  *  *  *  *  *  *  *  *  *

Y/PROJECTS\XDS-V8-17-01 FRAME = Active/Eng/18-B-30506/ver01-mjimenez/BLDG-B/Drftg/x01L Active/Eng/18-B-30506/ver01-mjimenez/BLDG-B/Drftg/x01R 8/16/21 07:19:07 8/16/21 07:19:07
Y/PROJECTS\XDS-V8-17-01 FB SET = Eng/18-B-30506/ver01-mjimenez/BLDG-B/Drftg/x01L Eng/-B-30506/ver01-mjimenez/BLDG-B/Drftg/x01R GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION). VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION. \*\* DENOTES: CLIPS AT FLANGE BRACE CL196 & CL199 AT 8" PURLINS/GIRTS CL197 & CL199 AT 10" PURLINS/GIRTS CL198 & CL199 AT 12" PURLINS/GIRTS 6.0 X 0.25 6.0 X 0.25 13.5 X 0.134 13.5 X 0.134 13.5 TO 23.76 X 0.156 23.76 TO 32.0 X 0.185 32.0 TO 23.76 X 0.185 23.76 J 13.5 X 0.156 6.0 X 0.25 6.0 X 0.25 6.0 X 0.3125 6.0 X 0.375 6.0 X 0.375 C 2E/2E B 3E/2F 3.75 X 0.375 -B 3E/2F - 3.75 X 0.37  $68' - 3\frac{3}{4}$ Scale: NOT TO SCALE Drawn by: BSL 8/23/21 Checked by: KSK 8/23/21 Project Engineer: MJ Job Number: 18-B-30506 FIN. FL. Sheet Number: E8 of 9 A 8½ 81 A WEB WEB O.F. The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project. 37' - 637'-6 75'-0 OUT/OUT OF STEEL CROSS SECTION AT FRAME LINE "6", -LICENSE. No 88271 STATE OF

	PLATE SIZE	TABLE		SPLI	CE BOLT		
ONN.	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
Α	8 X 0.75 X 0'-10 <sup>1</sup> / <sub>8</sub>						
В	8 X 0.5 X 3'-0 <sup>15</sup> / <sub>16</sub>	6 X 0.5 X 3'-0 <sup>7</sup> / <sub>16</sub>	, , ,		A325 B&N	0	0
С	6 X 0.375 X 1'-8 <sup>3</sup> / <sub>16</sub>	6 X 0.375 X 1'-8 <sup>3</sup> / <sub>16</sub>	$(8)^{\frac{3}{4}}$	$X 1\frac{3}{4}$	A325 B&N	0	0

