IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 SHALL BE FIRST REDUCED TO A.S.D. DESIGN PRESSURE RATINGS INDICATED ON SHEET S16.

GLAZED RAILING CAPACITY TO SUSTAIN SAFEGUARD LOADS HAS BEEN VERIFIED PER THE CODES AND STANDARDS STATED

- GLASS CAPACITY FOR IMPACT (SAFETY GLAZING) AS WELL AS ASSEMBLY CAPACITY FOR WIND LOADS UNDER MAXIMUM A.S.D. PRESSURE RATINGS INDICATED ON SHEET 10 HAVE BEEN VERIFIED THRU TESTING PERFORMED AT FENESTRATION TESTING LABORATORY, REPORTS #8754, #8800, AS PER SECTIONS 1618 (ANSI Z97) AND 1616 OF THE 2014 (5TH EDITION) OF THE FLORIDA BUILDING CODE, AND AS PER TAS 202 PROTOCOL (STRUCTURALLY ONLY, WITH A SAFETY FACTOR OF 2.0) RESPECTIVELY FOR THE PURPOSE OF DETERMINING THE PERFORMANCE OF THE PRODUCT, THIS STANDARD IS EQUIVALENT TO THE ADOPTED STANDARDS IN THE ABOVE REFERENCED BUILDING CODES.
- ALL ALUMINUM EXTRUSIONS TO BE INDICATED ON THIS DRAWING. THE DIMENSIONS OF ALL EXTRUSIONS TO BE AS SHOWN ON THIS DRAWING.
- ALL SCREWS TO BE AISI 410 SERIES STAINLESS STEEL WITH 92 ksi MINIMUM YIELD STRENGTH, AND SHALL COMPLY WITH CODES AND STANDARDS STATED HEREIN.
- TEMPERED GLASS TO COMPLY WITH CODES AND STANDARDS STATED HEREIN
- POST EMBEDMENT INTO EXISTING CONCRETE SLABS SHALL BE PERFORMED WITH HOLE SIZE SHOWN ON THIS DRAWING. INSTALLATION INTO EXISTING PRE-STRESSED OR POST TENSIONED SLABS SHALL BE CAREFULLY PERFORMED SO THAT THE EXISTING REBAR OR CABLES ARE NOT DAMAGED. PRESET HOLES ON CONCRETE ARE ALSO ALLOWED AS LONG AS THEY ARE PERFORMED WITH SIZES AS REQUIRED ON THIS DRAWING. ALL HOLES TO BE GROUTED WITH NON SHRINK GROUT COMPONENT 24 AS PER BILL OF MATERIALS ON SHEET 3.
- SEE REMAINING SPECS FOR GLAZED RAILING COMPONENTS ON BILL OF MATERIALS ON SHEET 3.
- ALUMINUM MEMBERS IN CONTACT WITH CONCRETE SHALL BE PROTECTED WITH ALKALI-RESISTANT COATING SUCH AS HEAVY BODIED BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACOUER ACCORDINGLY TO COMPLY WITH CODES AND STANDARDS STATED HEREIN.
- ALL WELDING TO CONFORM TO THE AMERICAN WELDING SOCIETY AWS D1.2 AND WITH CODES AND STANDARDS STATED HEREIN.
- 10. THIS REPORT IS A GENERIC STRUCTURAL DRAWING AND DOES NOT CONSTITUTE AT ALL A SHOP DRAWING FOR THE THE DIRECT MANUFACTURE OF THIS RAILING. RAILING CONTRACTOR IS RESPONSIBLE FOR MEETING OR EXCEEDING ALL APPLICABLE RAILING REQUIREMENTS AS WELL AS F.B.C., N.F.P.A. AND ADA MANUALS IN APPLYING THESE GENERIC DRAWINGS TO ACTUAL CONDITIONS PARTICULAR TO THIS PROJECT.
- 11. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THAT THE EXISTING STRUCTURE CAN SUSTAIN THE SUPERIMPOSED LOADS.
- 12. THIS REPORT PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.E. WHERE THE SITE CONDITIONS DEVIATE FROM THIS REPORT
- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS REPORT PROVIDED HE/SHE DOES NOT DEVIATE FROM CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTORS RESPONSIBILITY.
- THIS REPORT WILL BE CONSIDERED IF ALTERED BY ANY MEANS.
- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THIS REPORT ENGINEER OF RECORD ACTING AS A DELEGATED ENGINEER TO THIS REPORT ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWING FOR REVIEW.
- 16. ORIGINAL REPORT SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

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INDEX OF SHEETS 3 1/2" POST GLASS RAILING SYSTEM, MECHANICALLY FASTENED AT BOTTOM

SHEET #1: GENERAL NOTES

SHEET #2: COMPONENTS

SHEET #3: BILL OF MATERIAL

SHEET #4: GLAZING DETAILS

SHEET #5: TYPICAL RAILING ELEVATIONS

SHEET #6: VERTICAL SECTIONS

SHEET #7: PLANS

SHEET #8: HORIZONTAL SECTIONS

SHEET #9: OPTIONAL PLANS

SHEET #10: OPTIONAL PLANS

SHEET #11: BOTTOM RAIL CONNECTION AT CORNER POST (OFFSET GLASS)

SHEET #12: BOTTOM RAIL CONNECTION AT INT./END POST (OFFSET GLASS)

SHEET #13: BOTTOM RAIL CONNECTION AT CORNER POST (CENT. GLASS)

SHEET #14: BOTTOM RAIL CONNECTION AT INT. END POST (CENT. GLASS)

SHEET #15: INTERMEDIATE RAIL CONNECTION AT POST (CENT. GLASS)

SHEET #16: MAX. A.S.D. DESIGN PRESSURE RATING

MAXIMUM RATED ASD DESIGN PRESSURE

+190 / - 190 PSF

FOR DETAILED APPROVED PRESSURE RATINGS, REFER TO THE INFORMATION IN THE MAX. ASD DESIGN PRESSURE RATING SCHEDULE ON PAGE S16.

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FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES



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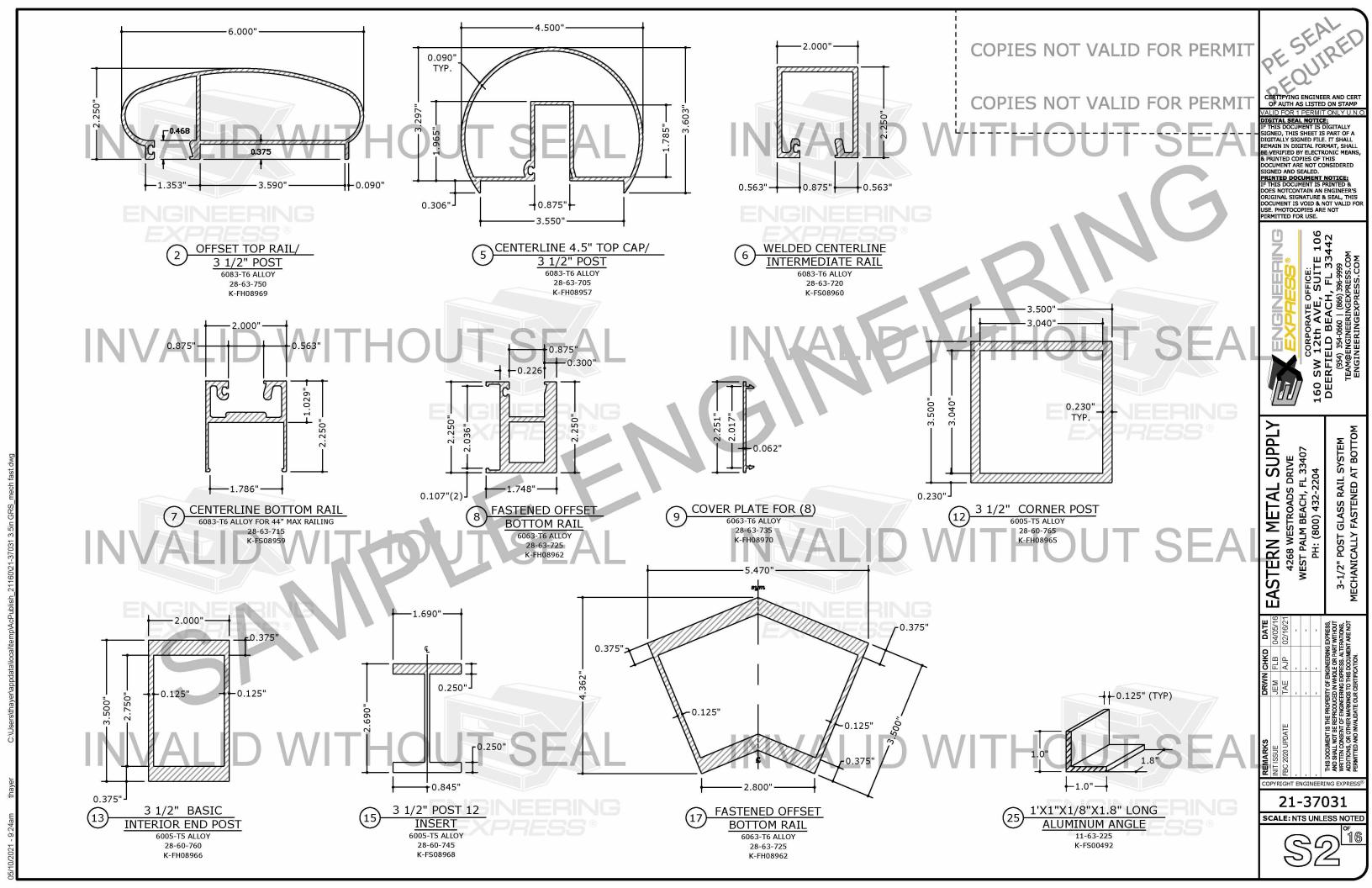
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3-1/2" POST GLASS RAIL SYSTEM MECHANICALLY FASTENED AT BOTTO!

SUPPLY

EASTERN METAL





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BILL OF MATERIALS: 3 1/2" POST GLASS RAILING SYSTEM, MECHANICALLY FASTENED AT BOTTOM

COMPONENT #	DESCRIPTION	MATERIAL	NOTES		
	OFFSET TOP RAIL / 3 1/2" POST	6063-T6 ALLOY	WELDED TO POST		
EXPRE	CENTERLINE 4.5" TOP CAP/ 3 1/2" POST	6063-T6 ALLOY	WELDED TO POST		
6	WELDED CENTERLINE INTERMEDIATE RAIL	6063-T6 ALLOY	USE AT 130psf. MAX.		
7	CENTERLINE BOTTOM RAIL	6063-T6 ALLOY	Y		
8	MECHANICALLY FASTENED OFFSET BOTTOM RAIL	6063-T6 ALLOY			
9	COVER PLATE FOR (8)	6063-T6 ALLOY			
12	3 1/2" CORNER POST	6063-T6 ALLOY			
/ / 13 I F	3 1/2" INTERIOR/END POST	6063-T6 ALLOY			
15	3 1/2" POST (13) INSERT	6063-T6 ALLOY			
16	135' 3 1/2" INTERIOR/CORNER POST	6063-T6 ALLOY	(7),(8) ONLY MECHANICALLY CONNECTED TO POST		
18	7/16" NOMINAL LAMINTATED GLASS: 3/16" TEMPERED GLASS + 0.035" SENTRY GLASS LAMINATE BY DUPONT + 3/16" TEMPERED GLASS	LAMINATED GLASS	SEE SCHEDULE ON SHEET 16 FOR LIMITATIONS		
10	9/16" NOMINAL LAMINATED GLASS: 1/4" TEMPERED GLASS + 0.035" SENTRY GLASS LAMINATE BY DUPONT + 1/4" TEMPERED GLASS	LAMINATED GLASS	SEE SCHEDULE ON SHEET 16 FOR LIMITATIONS		
20	W514/ INTERIOR GLAZING GASKET BY REED RUBBER PRODUCTS	TPV	USE AT GLASS (18) & GLASS (19)		
21	B140/ EXTERIOR GLAZING GASKET BY REED RUBBER PRODUCTS	TPV	USE AT GLASS (18)		
22	B090/ EXTERIOR GLAZING GASKET BY REED RUBBER PRODUCTS	TPV	USE AT GLASS (19)		
23	SETTING BLOCK FOR (7), 1/8"x1"x4", DUROMETER 80 MIN.	NEOPRENE	BN02164, LOCATED @ 1/4" POINTS		
23A	SETTING BLOCK FOR (8), 1/4"x7/8"x4", DUROMETER 80 MIN.	NEOPRENE	BN04164, LOCATED @ 1/4" POINTS CUT 1/8" FROM 1" WIDE		
24	QUICKCRETE NON SHRINK PRECISION GROUT, MODEL# 1585-00, MANUFACTURED BY QUICKCRETE	PORTLAND CEMENT	f'c= 9000 psi AT 3 hrs; 9500 psi AT DAYS & 12500 psi AT 28 DAYS		
25	1" $ imes$ 1" $ imes$ 1/8" 1 13/16" LONG ALUMINUM BRACKET ANGLE FOR (7)	6063-T6 ALLOY			

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REMARKS	DRWN	DRWN CHKD	DATE
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3-1/2" POST GLASS RAIL SYSTEM MECHANICALLY FASTENED AT BOTTOM

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Aldris Walls Walls

GLAZING DETAIL AT TOP & BOTTOM RAIL (8) W/ GLASS (18) (OFFSET GLASS)

GLAZING DETAIL AT TOP & BOTTOM RAIL (8) W/ GLASS (19) (OFFSET GLASS)

GLAZING DETAIL AT TOP & BOTTOM RAIL (7) W/ GLASS (18) (CENTERLINE GLASS) GLAZING DETAIL AT TOP &
BOTTOM RAIL (7) W/ GLASS (19)
(CENTERLINE GLASS)

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CORPO 160 SW 12th DEERFIELD B (954) 354-066

J) 432-2204
ASS RAIL SYSTEM

3-1/2" POST GLASS

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DETAIL 1/11 DETAIL **DETAIL** DETAIL 4/13 B/6 7/15 1/2" GAP (TYP.) 4.0" MAX CLEAR 12 or 17 4.00 ' MAX. 42" MIN 42" MIN. 4.00 " E/8 EA/10 MAX. E/8 A.F.F. A.F.F. EA/10 44" D/8 DA/10 MAX. -18 or 19 2" MAX. STRUCTURAL SLAB (NO FINISH)* DETAIL 2/12 STRUCTURAL SLAB DETAIL DETAIL DETAIL B/6 **DETAIL** 3/12 1A/11 5/14 6/14 (NO FINISH)* 4A/13

> TYPICAL RAILING ELEVATION W/ EMBEDDED POSTS INTO CONCRETE SLAB W/ OFFSET GLASS

(MECHANICALLY FASTENED AT BOTTOM)

TYPICAL RAILING ELEVATION W/ EMBEDDED POSTS INTO CONCRETE SLAB W/ CENTERLINE GLASS

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SEE SCHEDULE ON SHEET 16.

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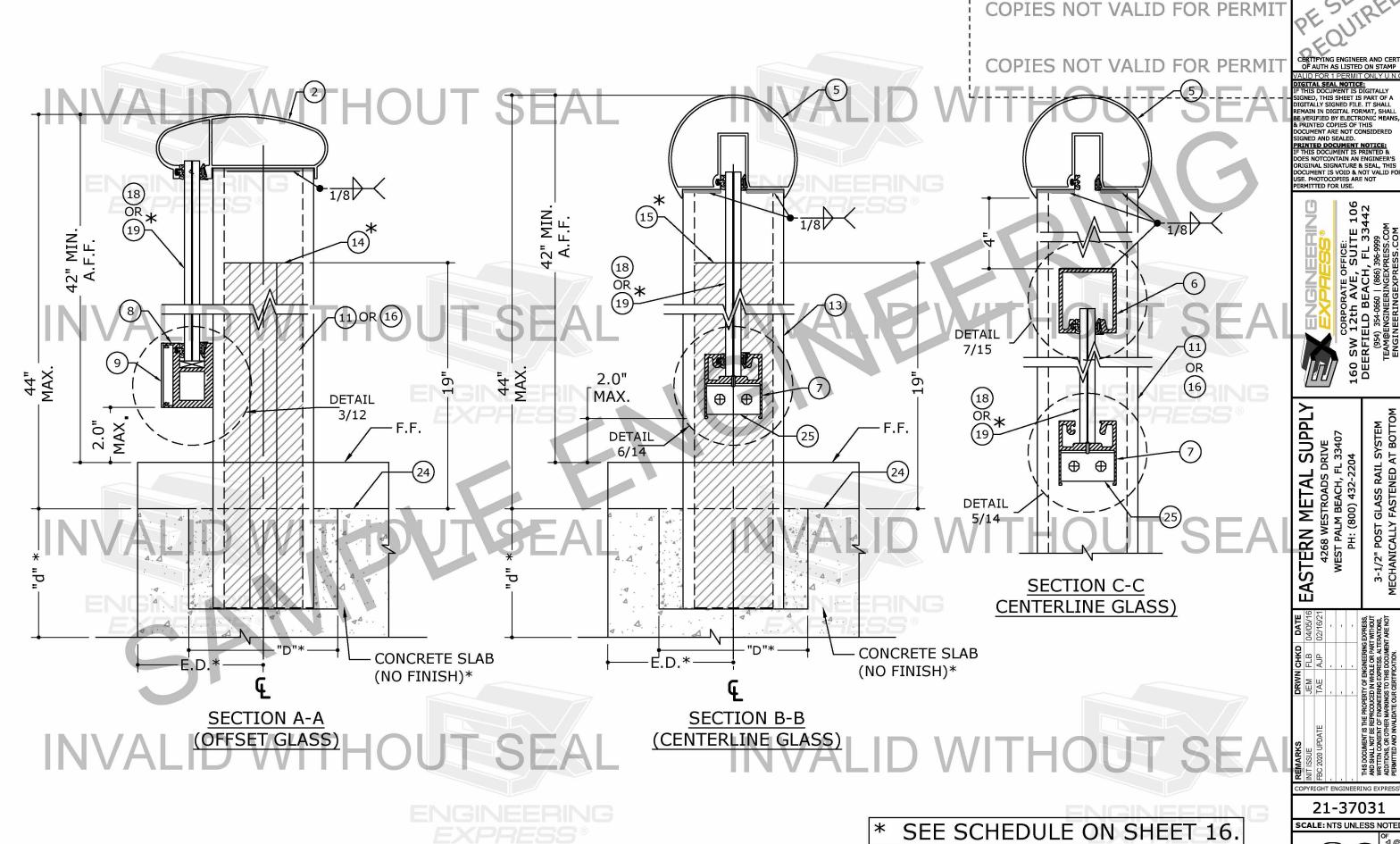
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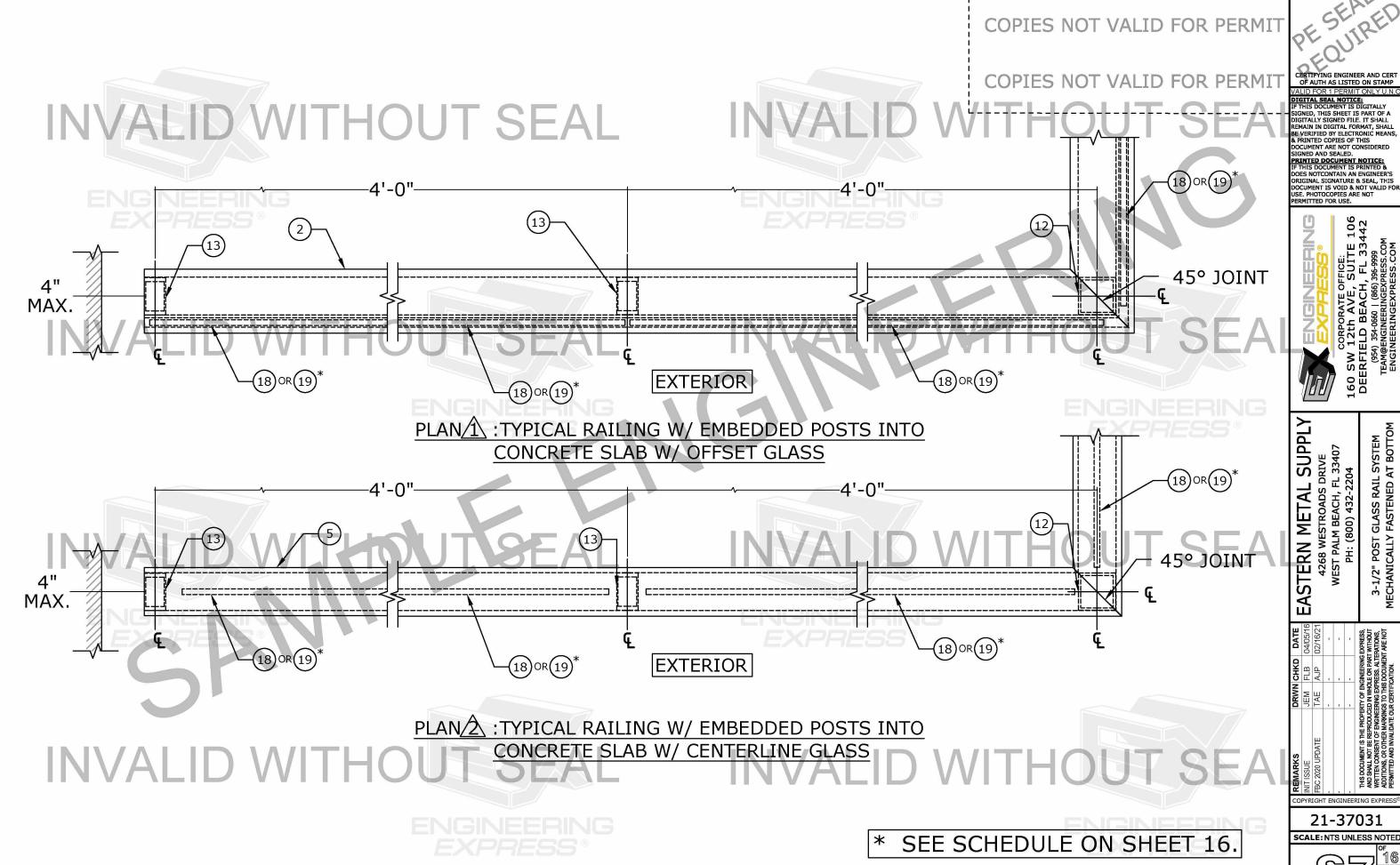
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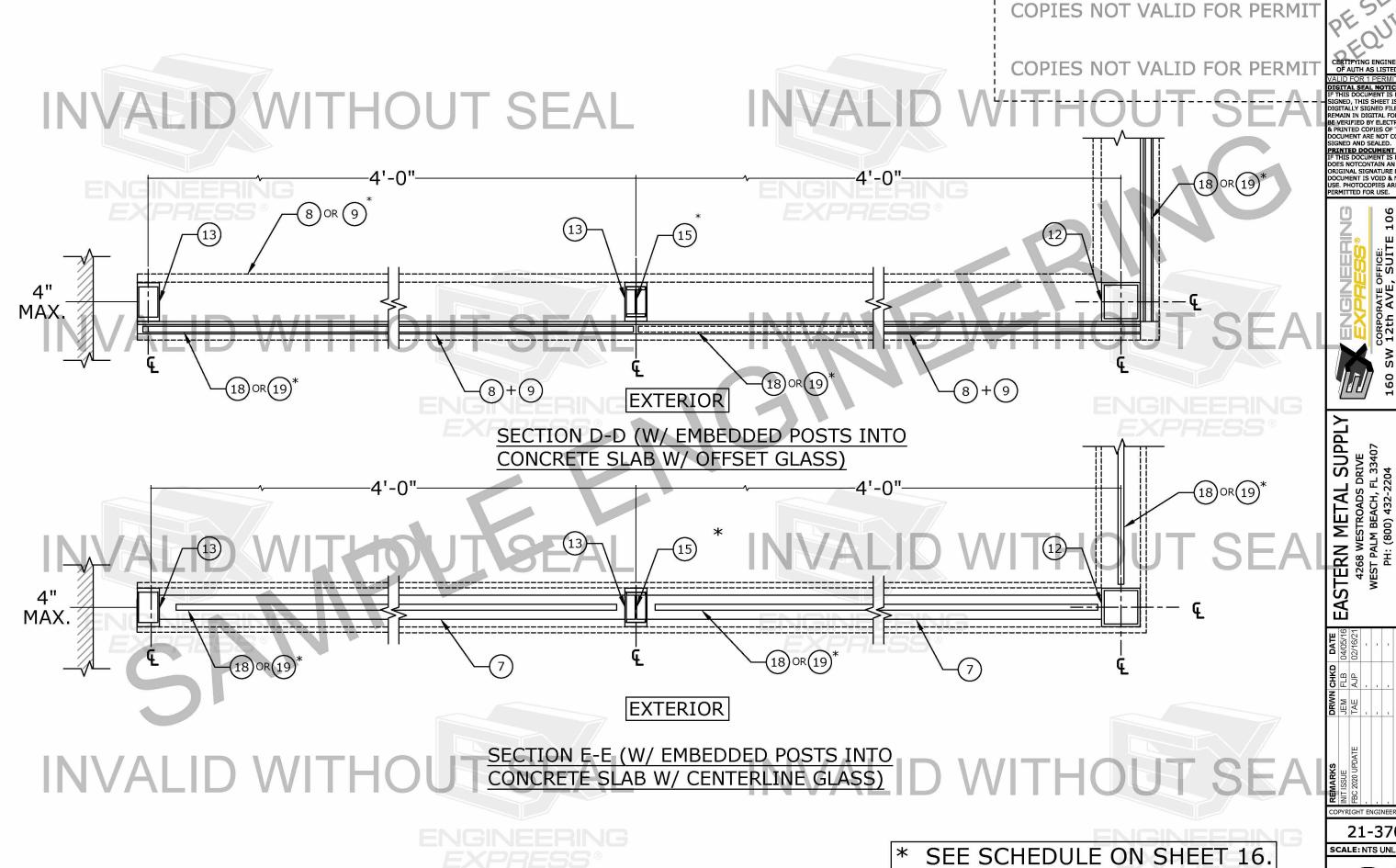
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EXTERIOR

PLAN 1 :TYPICAL RAILING W/ EMBEDDED POSTS INTO CONCRETE SLAB W/ OFFSET GLASS 18) OR (19)* EXTERIOR

:TYPICAL RAILING W/ EMBEDDED POSTS INTO CONCRETE SLAB W/ CENTERLINE GLASS

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EXTERIOR (5)OPTION TO PLAN 1A (18) OR (19)EXTERIOR

OPTION TO PLAN ZA

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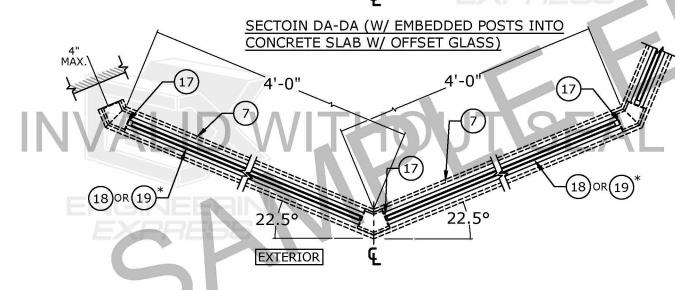
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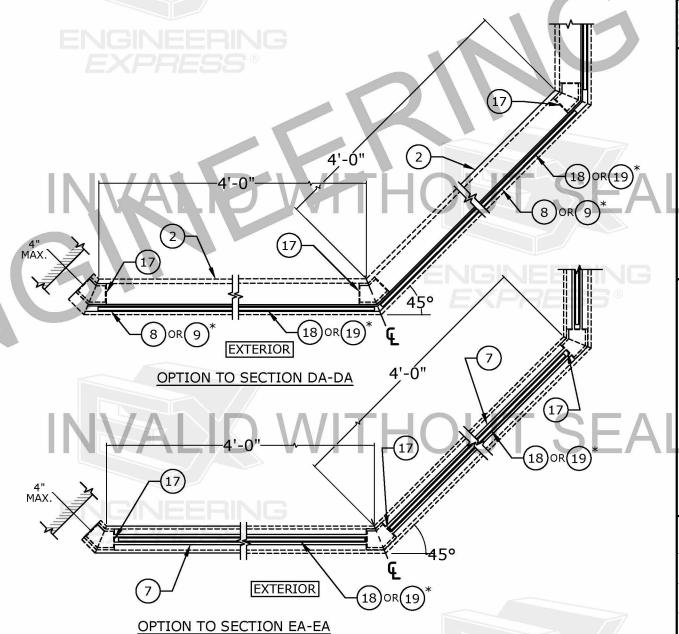




SECTION EA-EA (W/ EMBEDDED POSTS INTO CONCRETE SLAB W/ CENTERLINE GLASS)

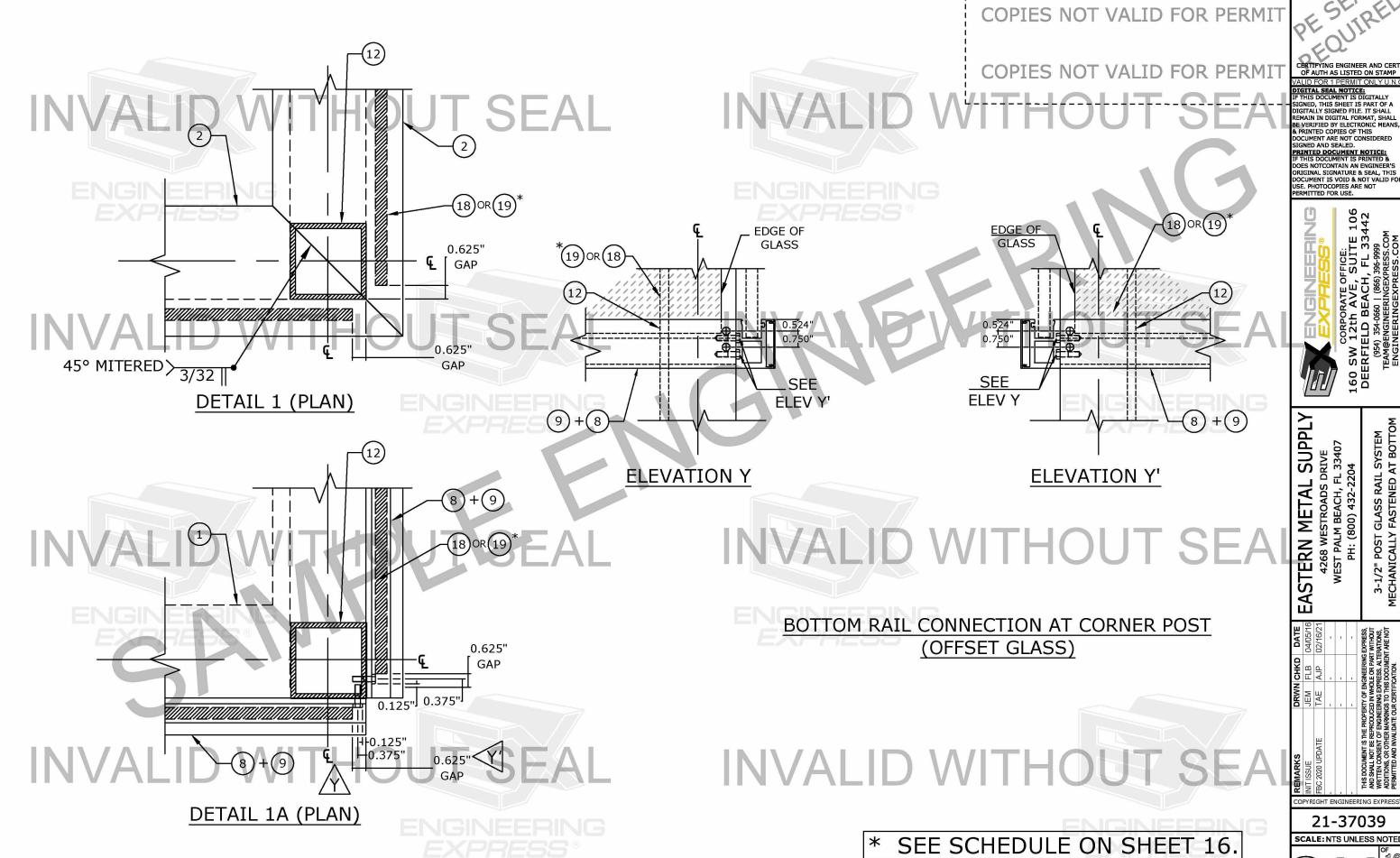
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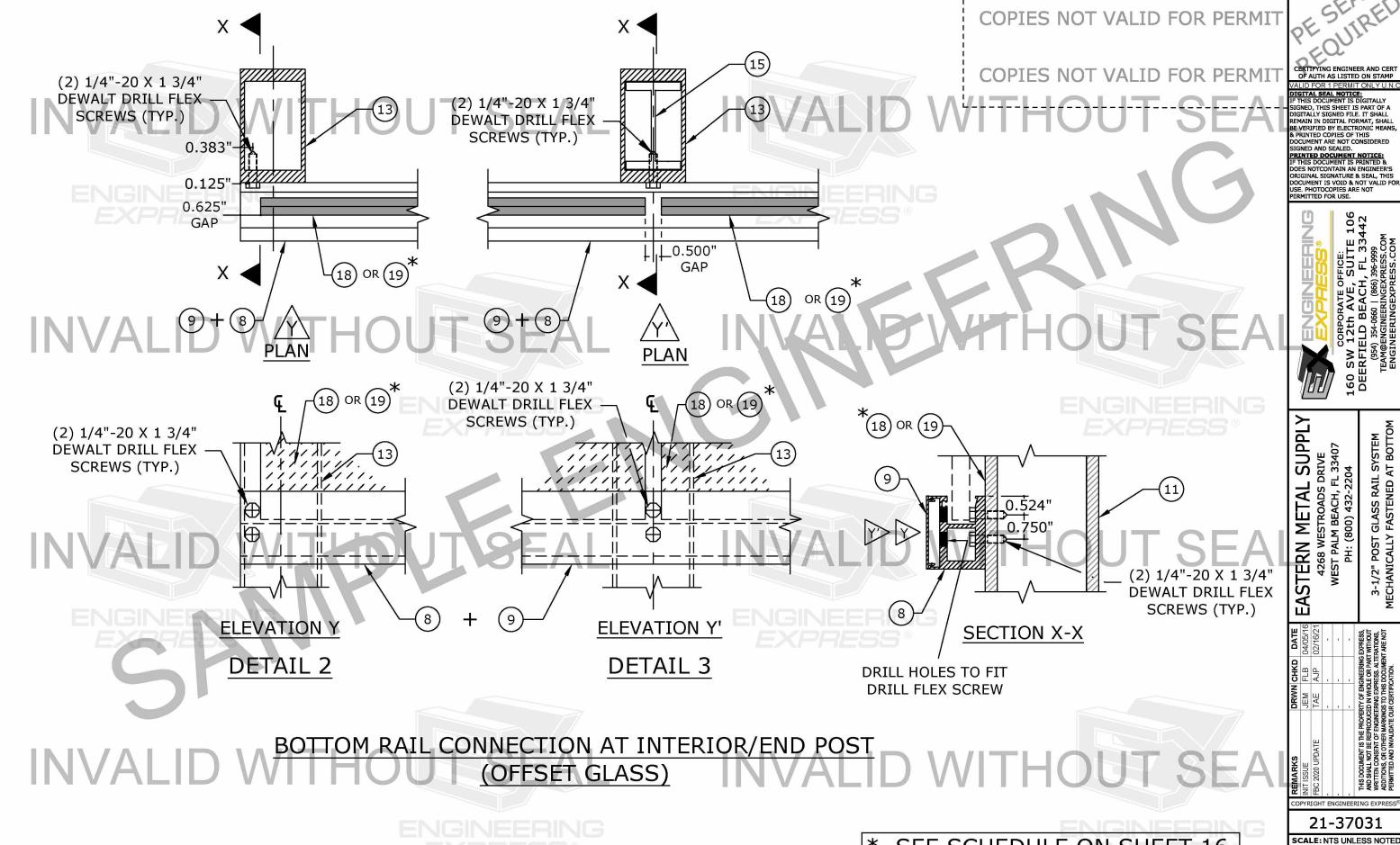
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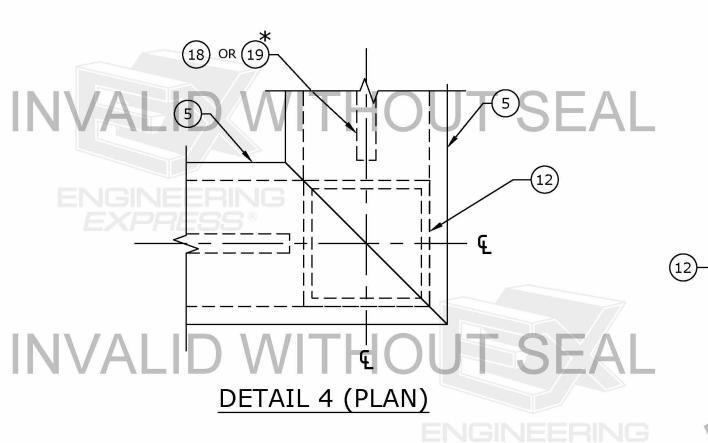
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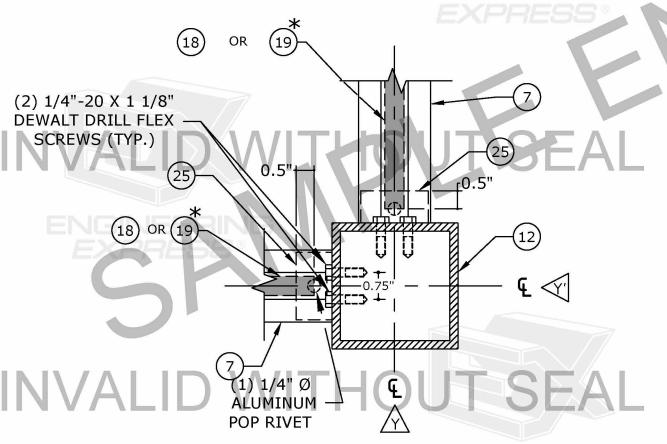
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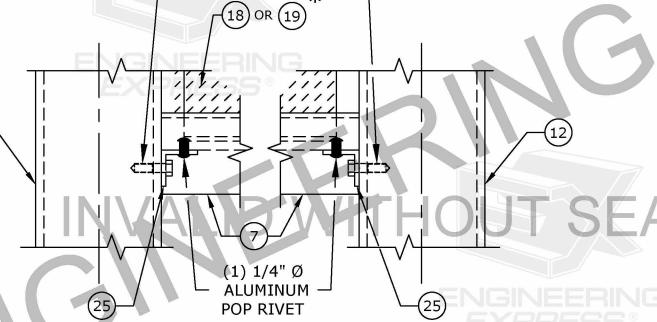
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DETAIL 4A (PLAN)

(2) 1/4"-20 X 1 1/8" DEWALT DRILL FLEX SCREWS (TYP.) -



ELEVATION Y

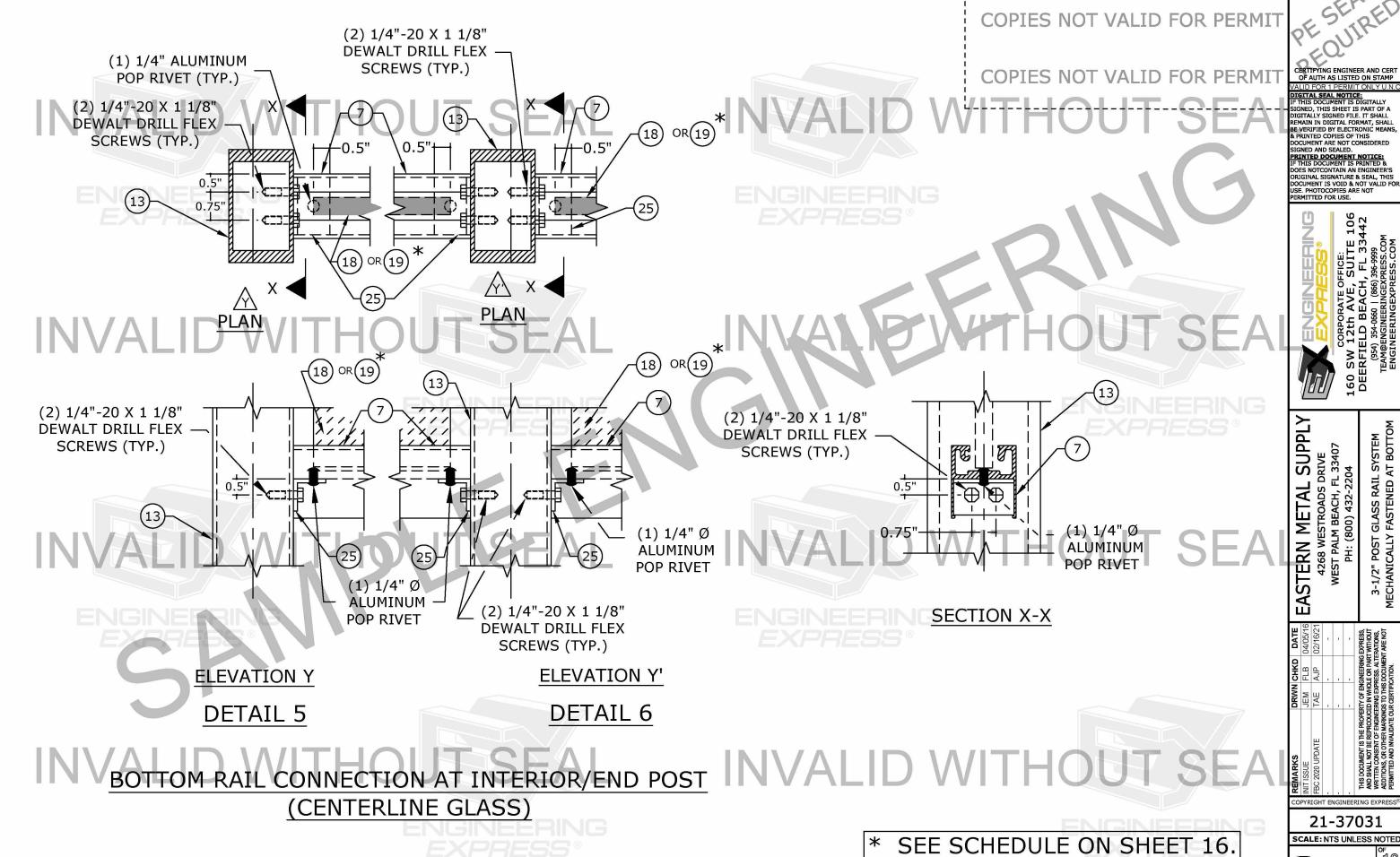
ELEVATION Y'

BOTTOM RAIL CONNECTION AT CORNER POST (CENTERLINE GLASS)

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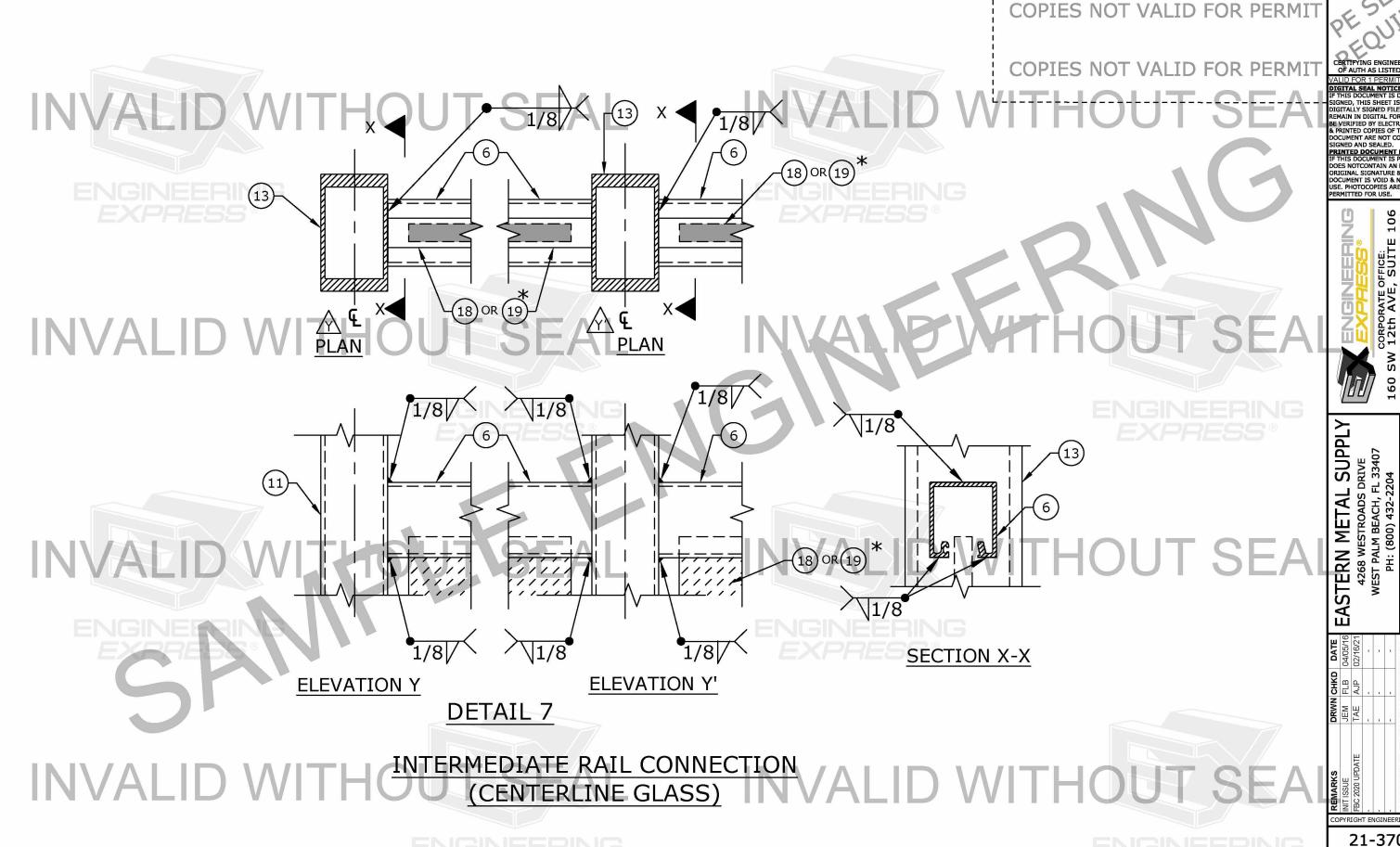
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SEE SCHEDULE ON SHEET 16.

MAX. ASD DESIGN PRESSURE RATING	REQ'D INTERIOR &	REQ'D HOLE FOR POST	REQ'D GLASS	MAX. POST	E.D.	
	END POST (PG. 14)	_® f'c≥3 Ksi	f'c≥6 Ksi	(PG. 16)	SPACING (C/C)	(PG. 4)
+ 90,-90 psf OR LESS	E, H*	D=6"Ø d=5 1/2"	D=6"Ø d=4 1/2"	18	48"	6"
	E, H*	D=6"Ø d=5"	D=6"Ø d=4"	18	42"	6"
	E, H*	D=6"Ø d=4 3/4"	D=6"Ø d=4"	18	36"	6"
+ 91,-91 psf TO + 120, -120 psf	E, H*	D=6"Ø d=6 1/2"	D=6"Ø d=5"	18	48"	6"
	E, H*	D=6"Ø d=6"	D=6"Ø d=4 3/4"	18	42"	6"
	E, H*	D=6"Ø d=5 1/2"	D=6"Ø d=4 1/4"	18	36"	6"
+ 121,-121 psf TO + 150, -150 psf	E, H*	D=6"Ø d=7 1/4"	D=6"Ø d=5"	18⁴, 19	48"	6"
	E, H*	D=6"Ø d=6 3/4"	D=6"Ø d=4 1/2"	18 [△] , 19	® 42"	6"
	E, H*	D=6"Ø d=6 1/4"	D=6"Ø d=4 1/4"	18⁴, 19	36"	6"
+ 151,-151 psf TO + 190, -190 psf	E, H*	D=6"Ø d=8 1/4"	D=6"Ø d=5 3/4"	19	48"	7"
	E, H*	D=6"Ø d=7 3/4"	D=6"Ø d=5 1/4"	19	42"	7"
	E, H*	D=6"Ø_d=7"	D=6"Ø D=4 3/4"	19	36"	7"

- INTERPOLATION IS NOT PERMISSIBLE FOR USE WITH THIS TABLE
- SQUARE COREDRILL MAY BE USED IN LIEU OF ROUND COREDRILL SO LONG AS THE SQUARE COREDRILL HAS EQUAL DEPTH AS LISTED AND THE LENGTH AND WIDTH OF THE SQUARE EQUAL THE HOLE DIAMETER LISTED ABOVE

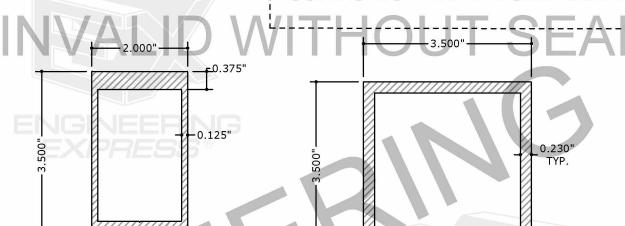
* USE D=7" POST H FOR REQ'D HOLE AT POST (CENTERLINE OF OFFSET GLASS W/ MECHANICALLY FASTENED AT BOTTOM)

Δ USE GLASS 18 ONLY UP TO 130 psf ASD DESIGN PRESSURE RATING USE GLASS 19 FOR ASD DESIGN PRESSURE RATING FOR 131 TO 140 psf

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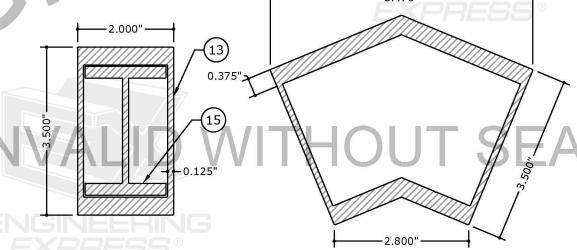


3 1/2" BASIC INTERIOR END POST 6005-T5 ALLOY 28-60-760 K-FH08966 POST E

3 1/2" CORNER POST 6005-T5 ALLOY

28-60-765 K-FH08965

POST G



13 1/2" BASIC INTERIOR END POST 6005-T5 ALLOY 28-60-760

K-FH08966

POST F

(15) 3 1/2" POST 12 **INSERT** 6005-T5 ALLOY

28-60-745 K-FS08968

POST H

FASTENED OFFSET

BOTTOM RAIL

6063-T6 ALLOY

28-63-725

K-FH08962

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EASTERN METAL SUPPLY 4268 WESTROADS DRIVE

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