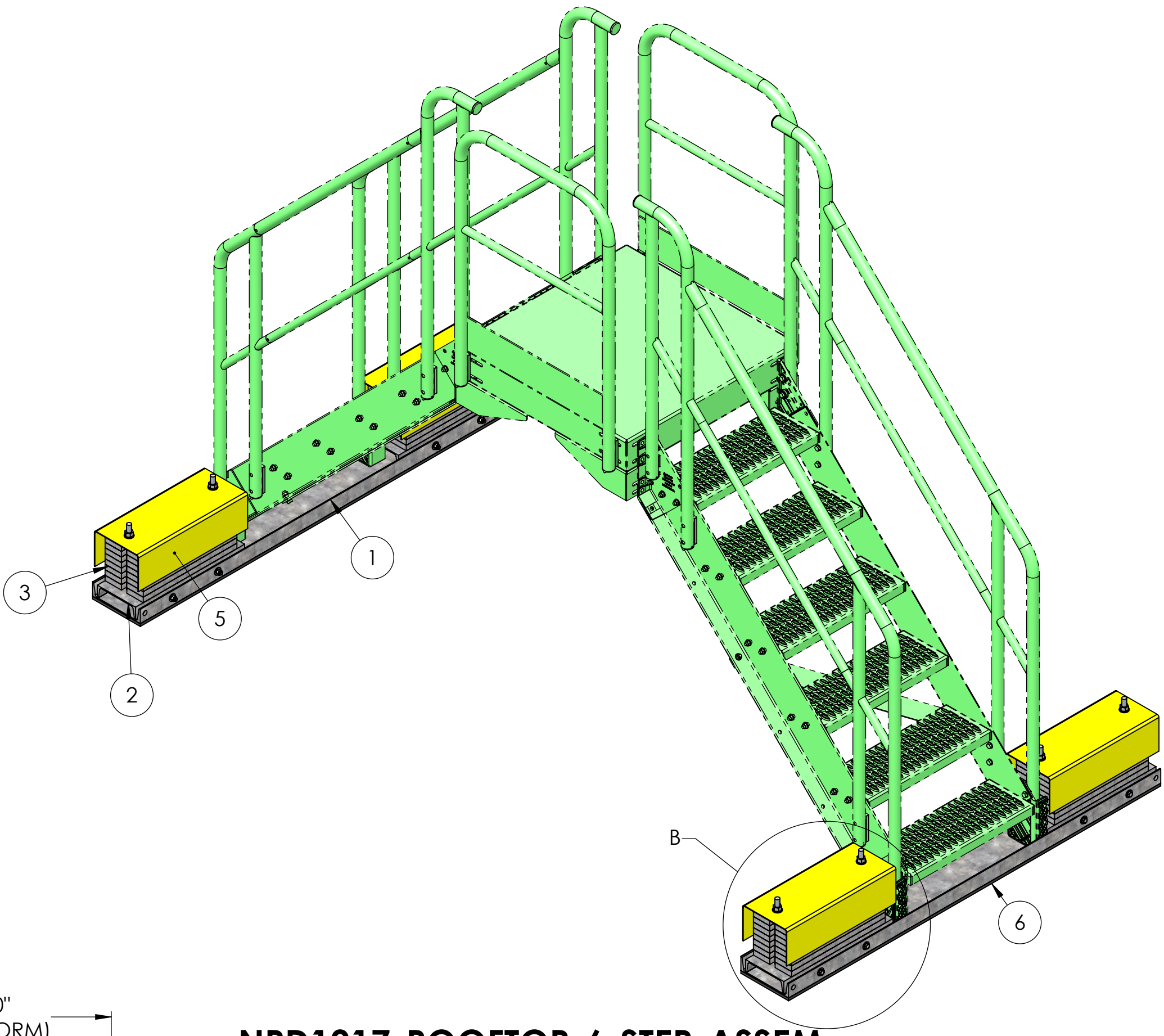


DESIGN CRITERIA		
LOCATION:	GENERAL	
RISK CATEGORY:	II	
DESIGN CODES:	ASCE 7-22	
	OSHA 1910 SUBPART D	
DESIGN LOADS:		
LIVE LOAD:		
	PLATFORM LIVE LOAD:	50 PSF
	STAIR LIVE LOAD:	1000 LBS
	HANDRAIL (ANY DIRECTION):	200 LBS
BASIC WIND SPEED (EXP CAT C):	115 MPH	
ROOFTOP HEIGHT:	50FT	

TOTAL WEIGHT (1.0 DEAD) = 2,454 LBS
TOTAL WIND SHEAR (1.0 DEAD) = 1,889 LBS
TOTAL OVERTURNING
MOMENT FROM WIND (1.0 WIND) = 5,716 LB-FT

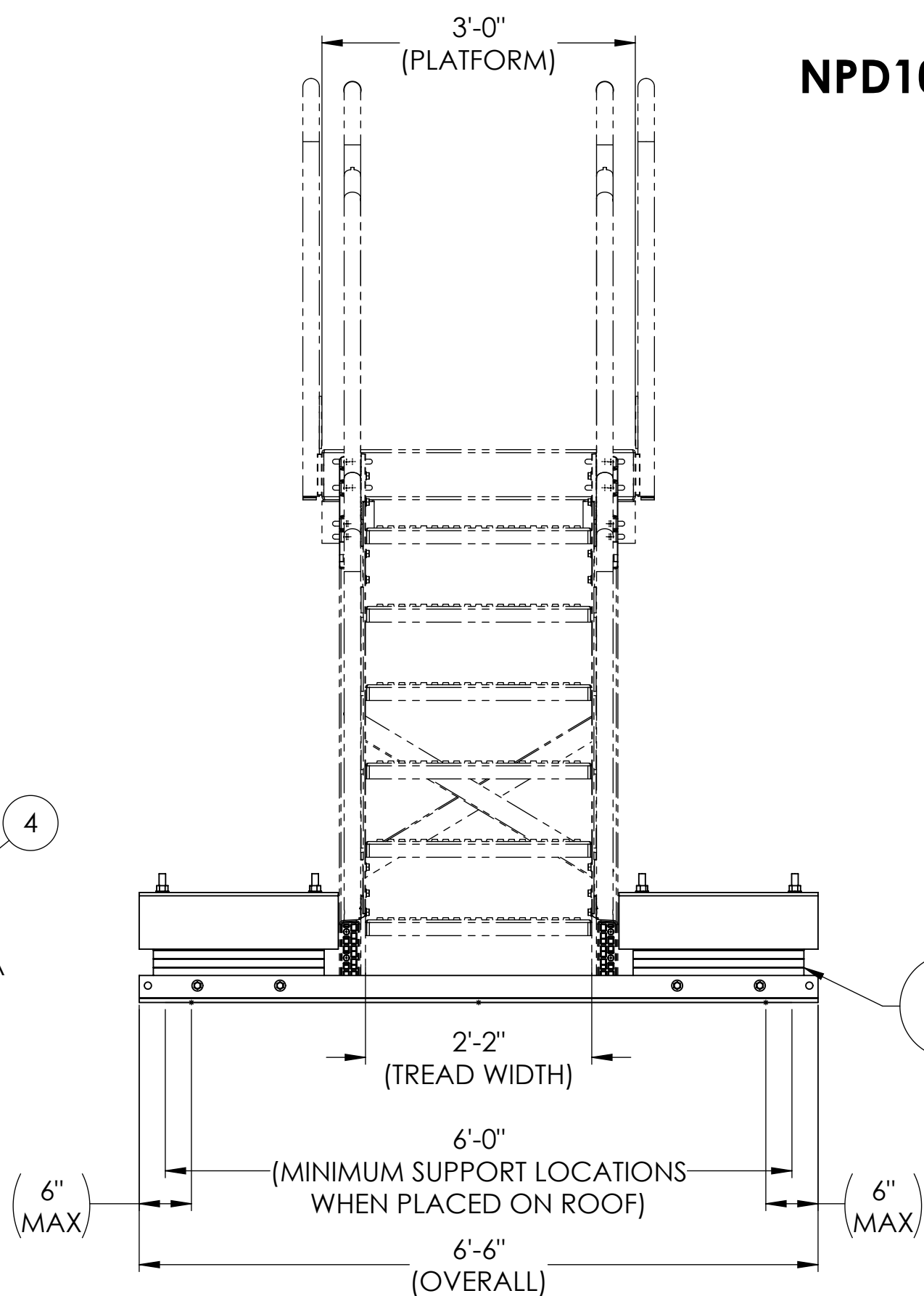
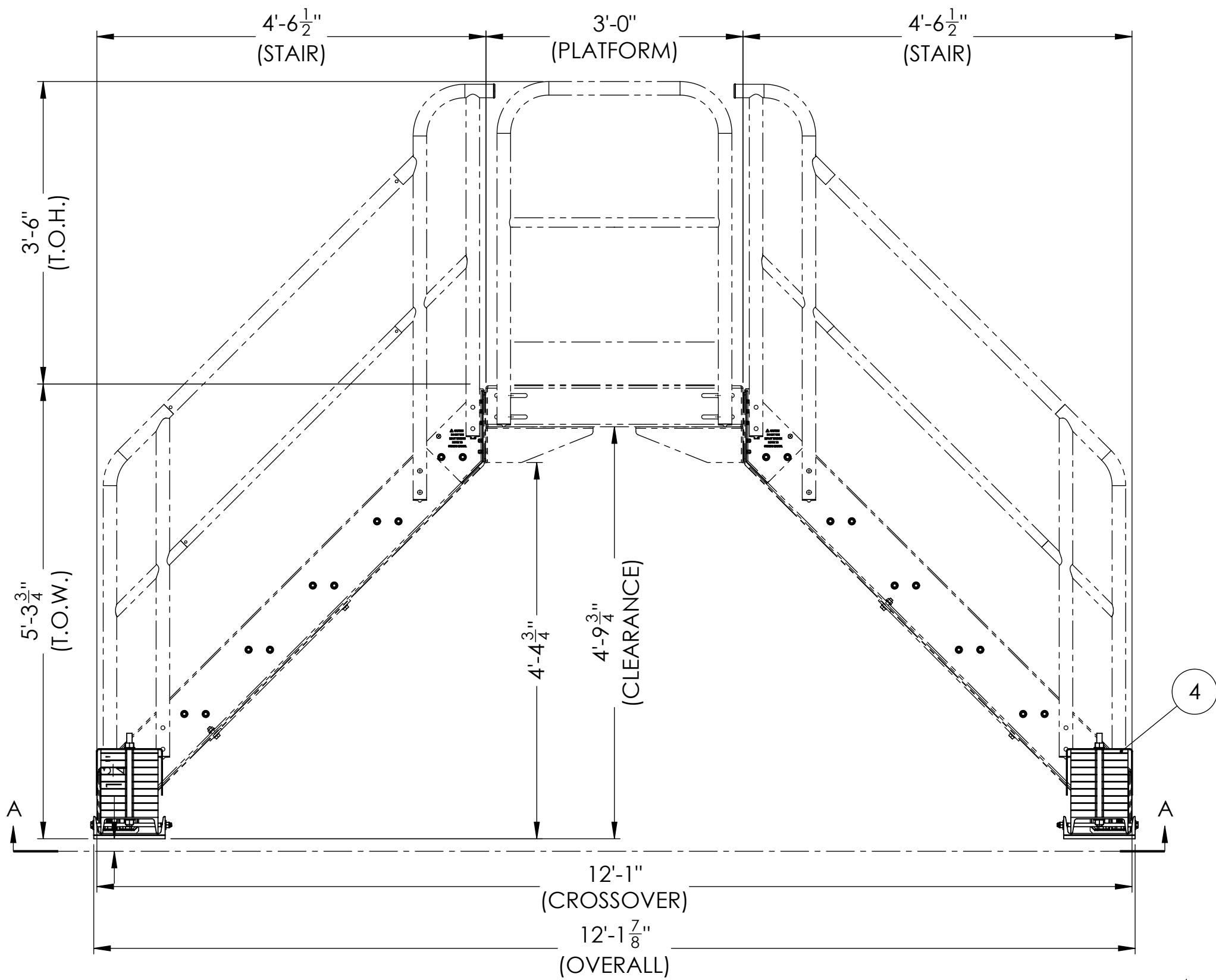


STRUCTURAL STEEL NOTES

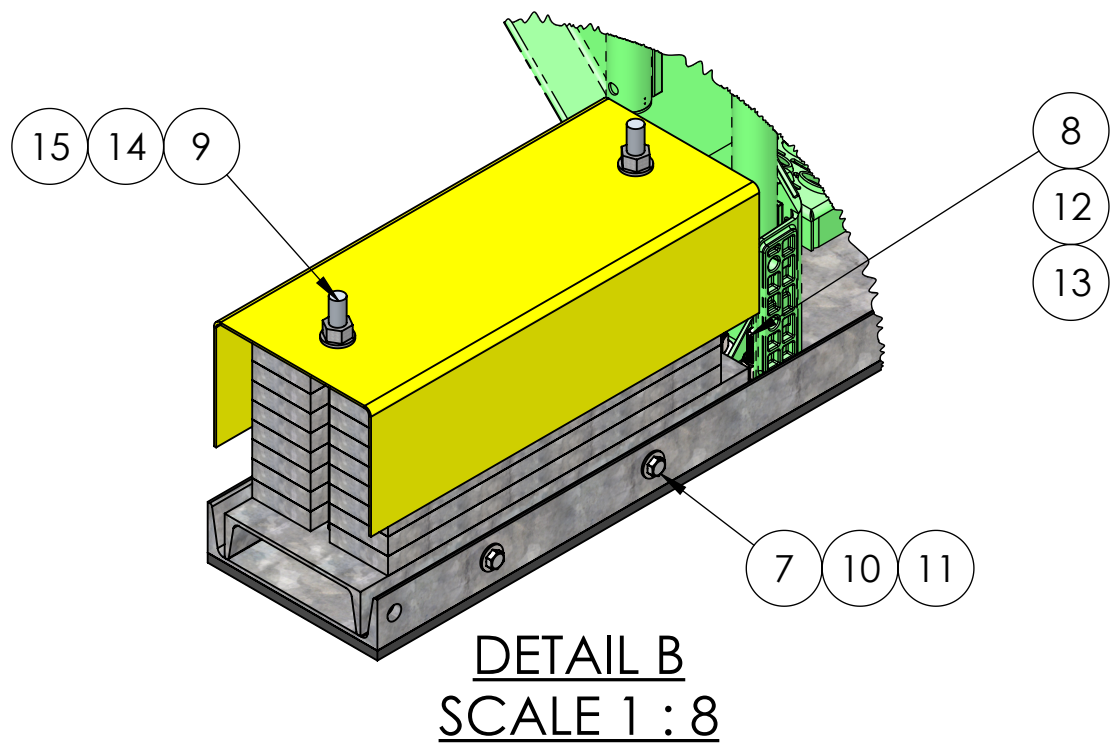
- STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS (UNLESS NOTED OTHERWISE):
 - ALL WF & WT SHAPES SHALL CONFORM TO ASTM A992 (50 KSI)
 - ALL PLATE, CHANNELS, ANGLES, BARS AND FLATS SHALL CONFORM TO A36 (36 KSI)
 - ALL HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B (46 KSI)
 - ALL PIPE SECTIONS SHALL CONFORM TO ASTM A53, GRADE B
 - ANCHOR BOLTS ARE TO BE ASTM F1554 (36 KSI)
- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF THE AISC STEEL CONSTRUCTION MANUAL.
- ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" $\varnothing$ HIGH STRENGTH BOLTS (ASTM A325) UNLESS OTHERWISE NOTED ON THE DRAWING. CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS IN SHEAR PLANE.
- THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2).
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS WHO HAVE BEEN RE-TESTED WITHIN 6 MONTHS PRIOR TO THE START OF STEEL FABRICATION. WELDING FOR STRUCTURAL STEEL SHALL BE MADE WITH E70 LOW HYDROGEN ELECTRODES.
- HOLES SHALL NOT BE CUT THROUGH BEAMS UNLESS INDICATED OR PRE-APPROVED BY SAFERACK.
- THE MINIMUM THICKNESS OF ANY GUSSET PLATE IS TO BE 3/8".
- GROUT MATERIAL FOR BASE PLATES SHALL BE NON-METALS, NON-SHRINK, PRE-PACKAGED GROUT CONFORMING TO ASTM C 1107.
- COLUMN BASE PLATES SHALL BE WITHIN 1/16" OF THEORETICAL ELEVATION AND BE LEVEL WITHIN 0.01 INCH ACROSS PLATE LENGTH OR WIDTH.

STRUCTURAL ALUMINUM NOTES

- STRUCTURAL ALUMINUM MATERIALS SHALL CONFORM TO THE FOLLOWING ALLOY SPECIFICATIONS (UNLESS NOTED OTHERWISE):
 - I-SHAPES, CHANNELS, AND ANGLES SHALL CONFORM TO 6061-T6
 - SQUARE AND RECTANGULAR TUBES SHALL CONFORM TO 6063-T5/T52/6061-T6
 - PIPES AND ROUND TUBES SHALL CONFORM TO 6063-T5/T52/T6/6061-T6
 - BARS SHALL CONFORM TO 6063-T5/T6/6061-T6
 - PLATES SHALL CONFORM TO 5052 H32
- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL ALUMINUM SHALL COMPLY WITH THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL 2005.
- ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" $\varnothing$ STAINLESS STEEL ASTM F593 (18-8) BOLTS AND ASTM F594 NUTS, UNLESS OTHERWISE NOTED ON THE DRAWING. CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS IN SHEAR PLANE.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS WHO HAVE BEEN RE-TESTED WITHIN 6 MONTHS PRIOR TO THE START OF ALUMINUM FABRICATION. WELDING FOR STRUCTURAL ALUMINUM SHALL BE MADE WITH ER4043 OR ER5356 ELECTRODES.

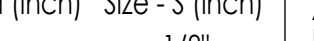


NPD1017-ROOFTOP-6-STEP-ASSEM
ABAS #199822

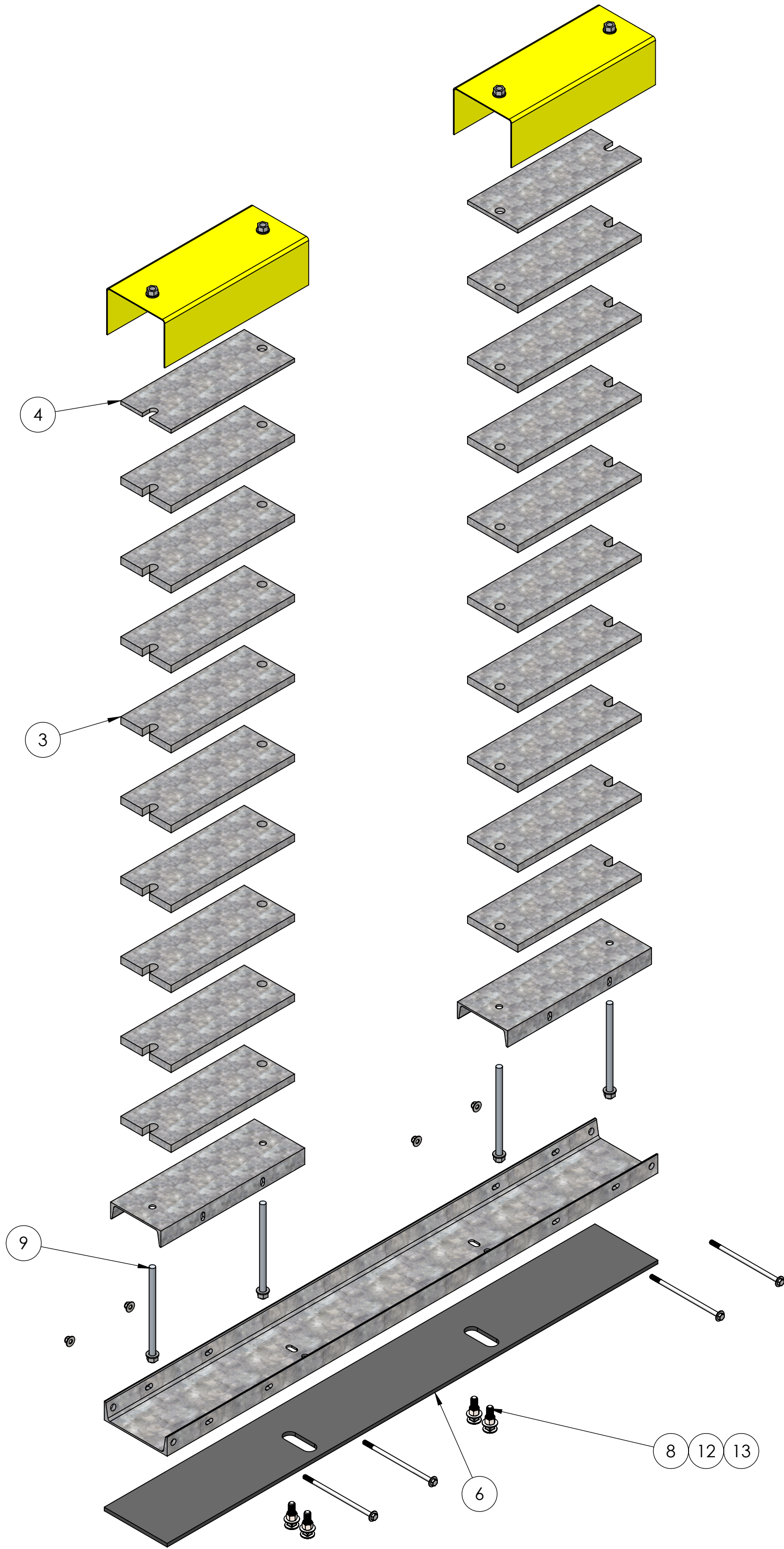
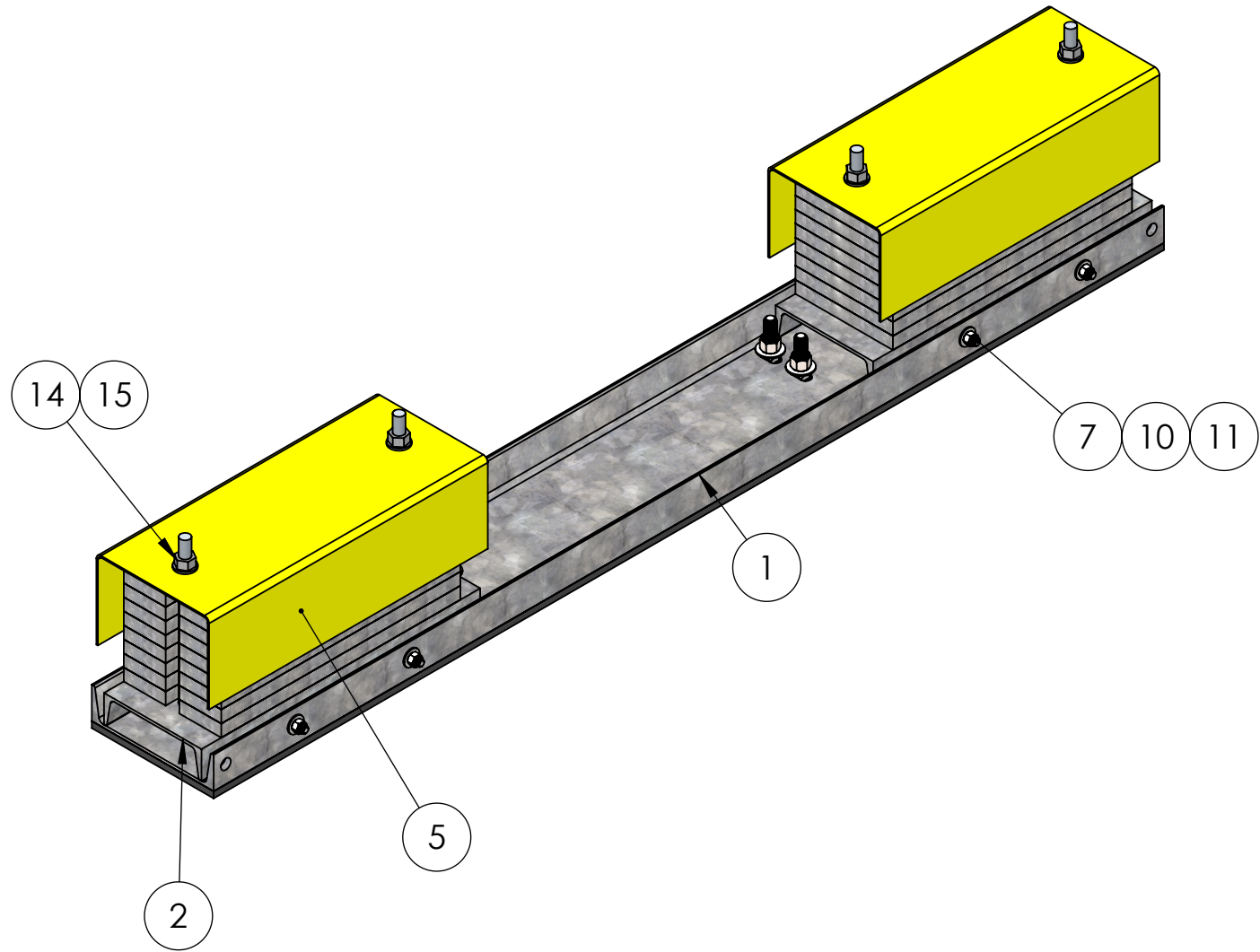


36X COUNTERWEIGHT &
4X HALF SIZED COUNTERWEIGHT
(APPROXIMATELY 45LBS & 22.5 LBS EACH
RESPECTIVELY)

DRAWING IS GENERAL. ANY SITE SPECIFIC
APPLICATION REQUIRES SEPARATE PE STAMP

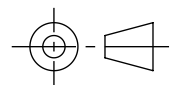
				DO NOT SCALE	TOLERANCES: UNLESS OTHERWISE SPECIFIED	ERECTASTEP WELDING STANDARDS SEAL WELD UNLESS OTHERWISE NOTED USE FILLETS LISTED BELOW UNLESS OTHERWISE NOTED	ALL INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY AND MAY NOT BE DISCLOSED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT OF ERECTASTEP	 WWW.ERECTASTEP.COM 888-878-1839	CUSTOMER INFORMATION: NEW PRODUCT DEVELOPMENT-ERECTASTEP 219 SAFETY AVE, ANDREWS, SC 29510	DRAWN: ESC	12/12/24	NPD1017-ROOFTOP-6-STEP-ASSEM									
				PROJECTION: 	LINEAR: X"-Y" = $\pm \frac{1}{16}$ " X" = $\pm \frac{1}{32}$ " .X = $\pm .1$.XX = $\pm .03$.XXX = $\pm .010$ ANGULAR: $\pm 1^\circ$	<table><tr><td>Material Thickness of Thinner Part Joined (inch)</td><td>Minimum Fillet Size - S (inch)</td></tr><tr><td>To 1/4"</td><td>1/8"</td></tr><tr><td>Over 1/4" to 1/2"</td><td>3/16"</td></tr><tr><td>Over 1/2" to 3/4"</td><td>1/4"</td></tr><tr><td>Over 3/4"</td><td>5/16"</td></tr></table> 				Material Thickness of Thinner Part Joined (inch)	Minimum Fillet Size - S (inch)	To 1/4"	1/8"	Over 1/4" to 1/2"	3/16"	Over 1/2" to 3/4"	1/4"	Over 3/4"	5/16"	CHECK: ZL	12/12/24
Material Thickness of Thinner Part Joined (inch)	Minimum Fillet Size - S (inch)																				
To 1/4"	1/8"																				
Over 1/4" to 1/2"	3/16"																				
Over 1/2" to 3/4"	1/4"																				
Over 3/4"	5/16"																				
									ENG: ZL	12/12/24	FINISH:	PER BOM	2 OF 3								
									APVL: TB	12/12/24	SCALE:	1:16	SIZE: D								
#	DESCRIPTION			DATE	BY					P.O.#		DWG#:	24NPD117-E2	REV: 0							

BOM Table			
MINOR MARK	QTY	PartName	ABAS
1	2	NPD1017-BASE-CHAN-6-6LG-GALV	202146
2	4	NPD1017-ROOFTOP-CW-CHAN-GALV	202318
3	36	NPD1017-CW-8X19.625-18C-C-GALV	199780
4	4	NPD1017-CW-THIN-8X19.625-GALV	199782
5	4	NPD1017-RFTP-3-6-CW-CVR-PCY	206531
6	2	NEO-STRIP-10X1 1/2-ADHESIV-78-LG	199804
7	8	MMC-92198A746-0.5-13X11-SS-HEX	202322
8	8	MMC-92356A913-CARRIAGE-BOLT	199720
9	8	ES-PS-RS-THREADED ROD-1-0-GALV	206425
10	16	FLAT WASHER Ø1/2 SS	11020
11	8	S/S NYLOCK NUT 1/2-13	10617
12	8	FLAT WASHER Ø3/4 SS	11027
13	8	NUT 3/4-10 NYLOCK S/S	12624
14	16	NUT - 3/4-10 GALV	10625
15	16	FLAT WASHER Ø3/4 GALV F436	15443



NPD1017-ROOFTOP-6-STEP-ASSEM
ABAS #199822

DRAWING IS GENERAL. ANY SITE SPECIFIC
APPLICATION REQUIRES SEPARATE PE STAMP

				DO NOT SCALE	TOLERANCES: UNLESS OTHERWISE SPECIFIED	ERECTASTEP WELDING STANDARDS SEAL WELD UNLESS OTHERWISE NOTED USE FILLETS LISTED BELOW UNLESS OTHERWISE NOTED	ALL INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY AND MAY NOT BE DISCLOSED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT OF ERECTASTEP	 WWW.ERECTASTEP.COM 888-878-1839	CUSTOMER INFORMATION: NEW PRODUCT DEVELOPMENT-ERECTASTEP 219 SAFETY AVE, ANDREWS, SC 29510	DRAWN: ESC	12/12/24	NPD1017-ROOFTOP-6-STEP-ASSEM		
				PROJECTION: 	LINEAR: X"-Y" = ± ¹ / ₁₆ " X" = ± ¹ / ₃₂ " .X = ±.01 .XX = ±.03 .XXX = ±.010 ANGULAR: +/ - ¹ / ₂ °	Material Thickness of Thinner Part Joined (inch) Minimum Fillet Size - S (inch) To 1/4" 1/8" Over 1/4" to 1/2" 3/16" Over 1/2" to 3/4" 1/4" Over 3/4" 5/16"				CHECK: ZL	12/12/24	ABAS #:	199822	SHEET:
#				THIRD ANGLE						ENG: ZL	12/12/24	FINISH:	PER BOM	1 OF 3
										APVL: TB	12/12/24	SCALE:	1:10	SIZE: D
				DATE	BY					P.O.#		DWG#:	24NPD117-E1	REV: 0

