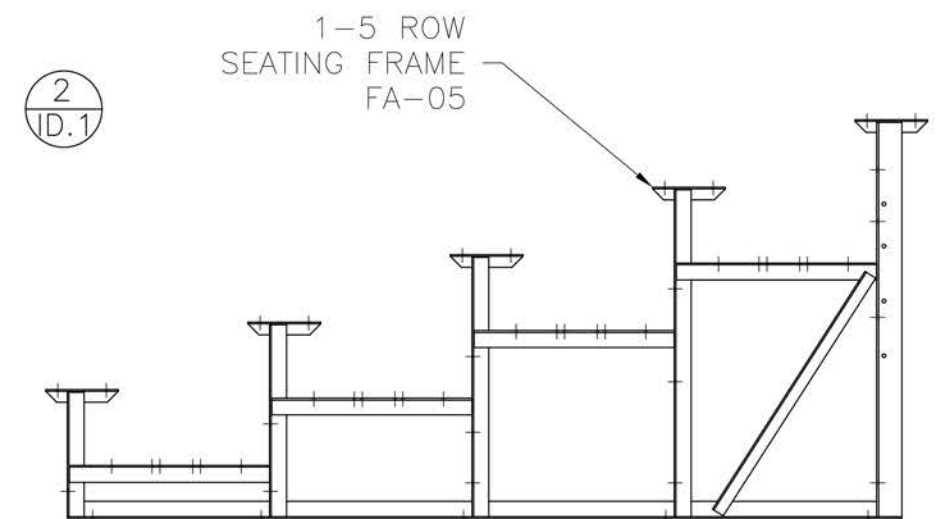
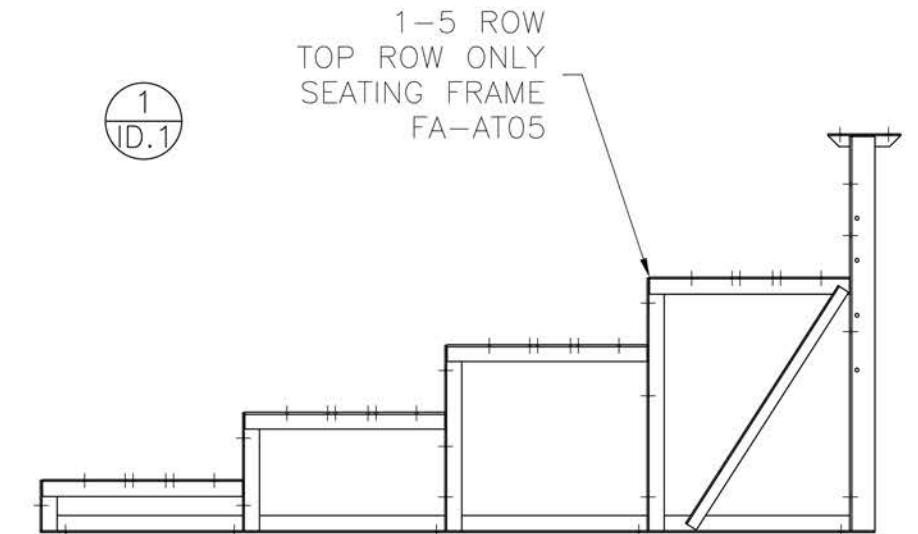
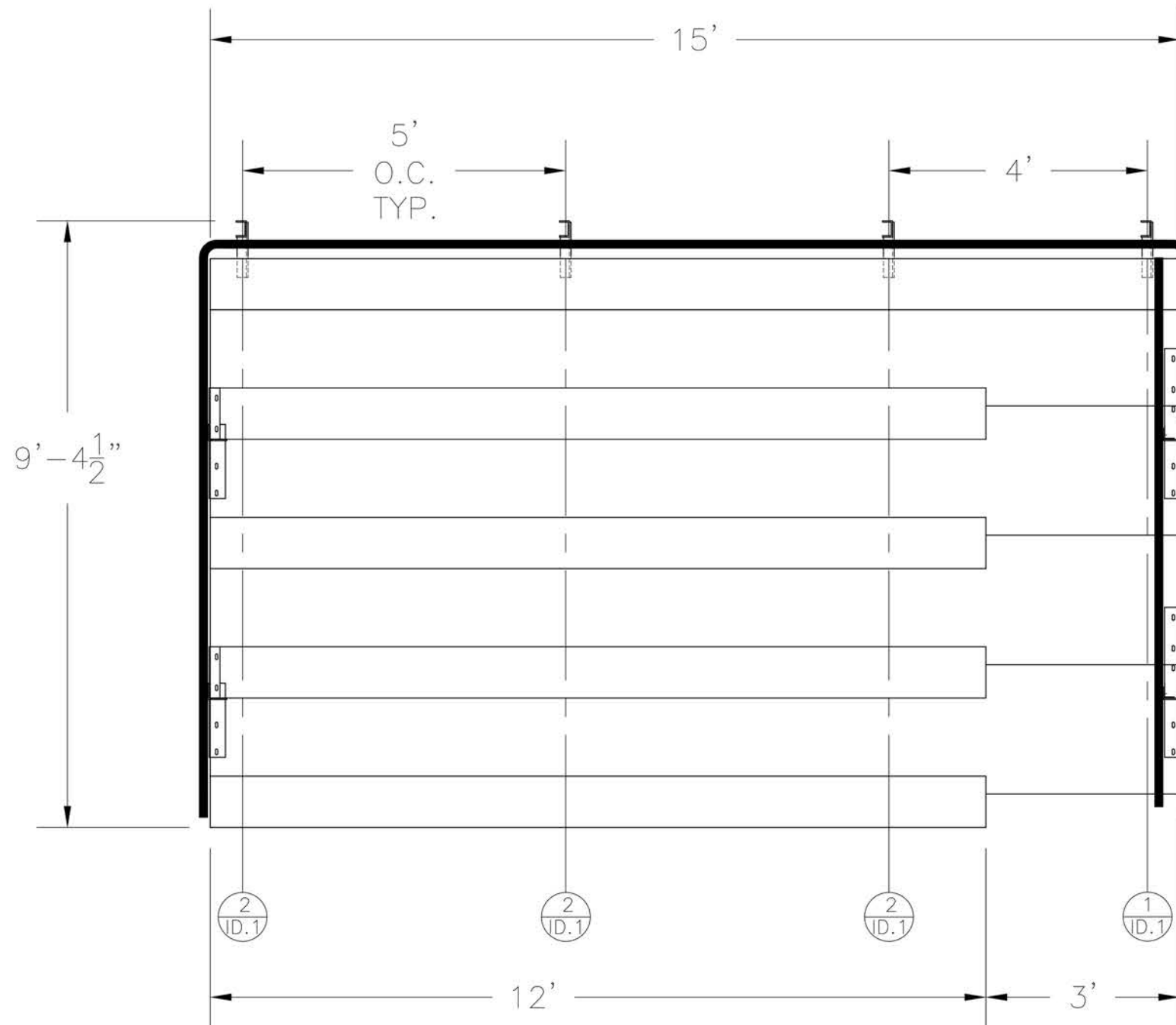


NON ELEVATED 5 ROW x 15'-0" ALUMINUM BLEACHER

THE PARK AND FACILITIES CATALOG	
3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431	
CS.1	- COVER SHEET
TD.1	- BLEACHER SEATING PLAN
FP.1	- FOUNDATION PLAN
AP.1	- ANCHORING PLAN
BA.1	- BLEACHER ASSEMBLY
BR.1	- BRACE ASSEMBLY
PF.1	- PLANK & FRAMING PLAN
VA.1	- VERTICAL AISLE ASSEMBLY
GR.1	- GUARDRAIL ASSEMBLY
DS.1	- DETAIL SHEET

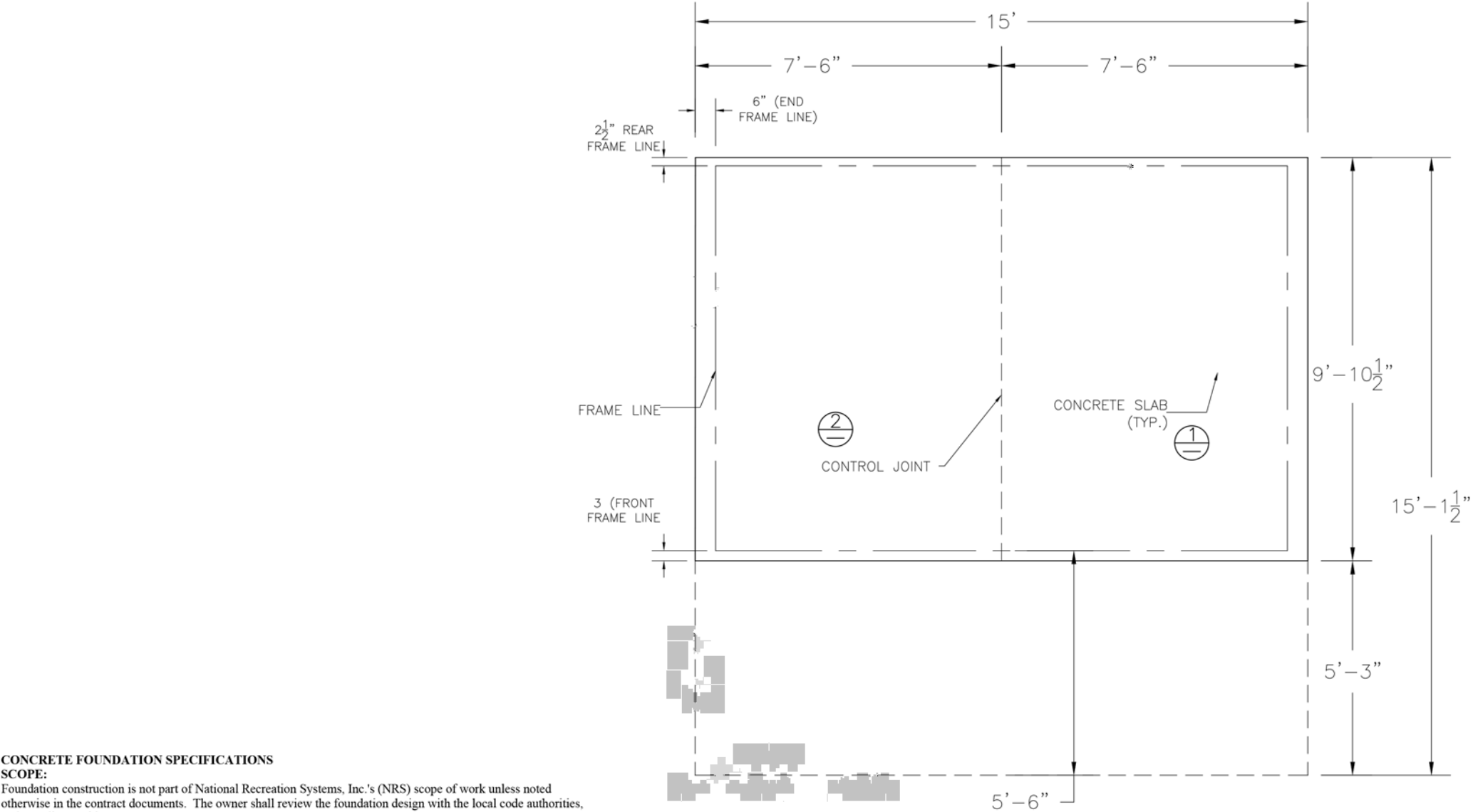


SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
15	10.00	10.00	1	10
12	8.00	8.00	4	32
NET SEATS				42
WHEELCHAIR SPACES				0
TOTAL NET SEATING CAPACITY				42
(BASED ON 18" PER SEAT)				

THE PARK AND FACILITIES CATALOG

3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431

SCALE: N.T.S.	APPROVED BY:	DRAWN BY:
DATE: 10/02/2015	CHUCK 5/20/2016	JML
TITLE: NON ELEVATED 5 ROW x 15'-0" BLEACHER SEATING PLAN		
	DRAWING NUMBER:	REV. DATE: 010/02/2015



CONCRETE FOUNDATION SPECIFICATIONS

SCOPE:
Foundation construction is not part of National Recreation Systems, Inc.'s (NRS) scope of work unless noted otherwise in the contract documents. The owner shall review the foundation design with the local code authorities, and coordinate with NRS.

FOUNDATION DESIGN & ANCHORS:

- The foundation designs are based on the following:
 - Minimum presumed soil bearing 1000 psf.
 - Bleacher frame dead and live load 700 lbs./ft.
 - Bleacher frame wind uplift load 250 lbs./ft.
- Unless otherwise noted on the drawings the bleacher frames shall be attached to the concrete with 3/8" dia. x 3" wedge type expansion anchors. The anchors shall be embedded a minimum of 2" into the concrete.

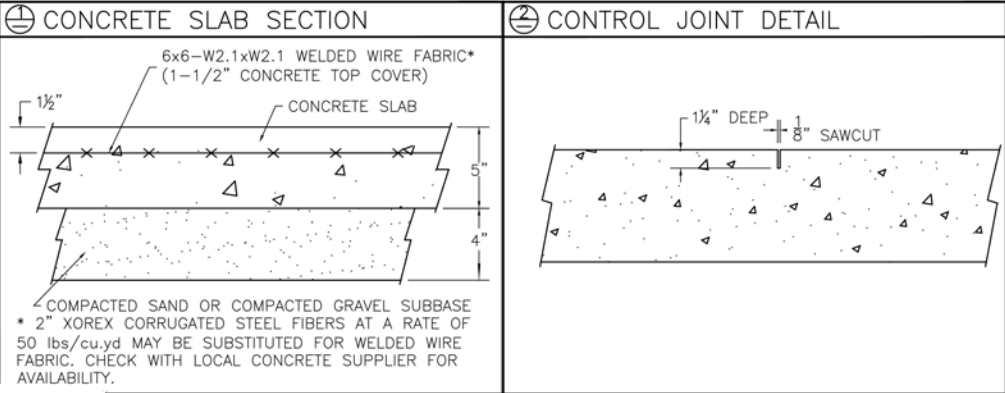
CONCRETE SPECIFICATIONS:

- All concrete construction shall be in accordance with *ACI 318-08*.
- All concrete shall have a minimum 28-day strength of $F_c=3000$ psi.
- A 1/4" bituminous expansion joint material shall be placed between strip and slab foundations when adjacent to each other.
- The depressions in the top of the foundations between high spots shall not exceed 5/16" below a 10-foot long straightedge. The 10-foot straightedge method used to measure foundation flatness shall be in accordance with Section of ACI 302.1R-04 "*Guide for Concrete Floor and Slab Construction*".

CONCRETE SLAB SPECIFICATIONS:

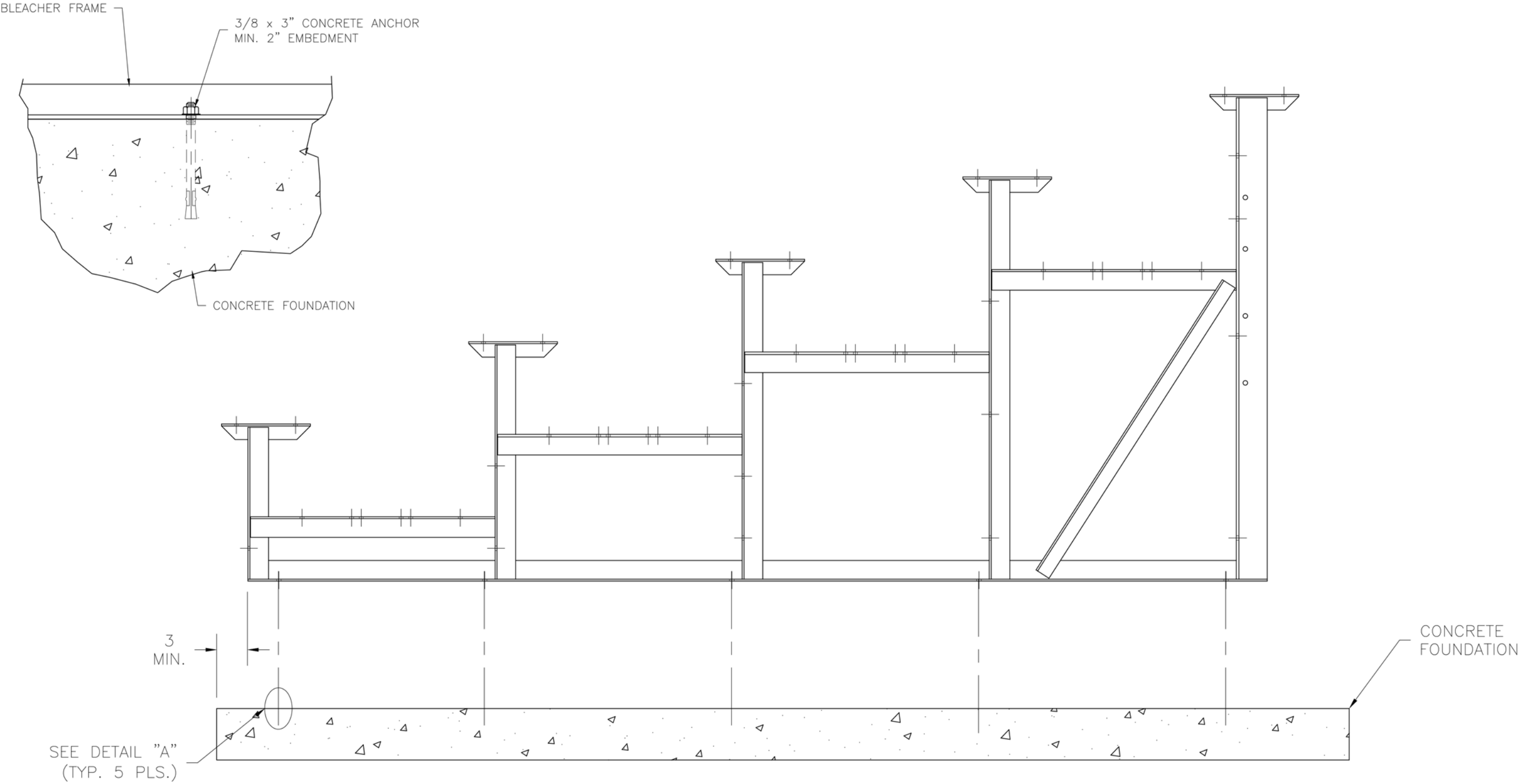
- Concrete slab shall have a minimum thickness of 5" (NRS, Inc. recommends, and some areas may require 6" thickness) and placed on 4" of compacted gravel or compacted sand sub-base.
- NRS, Inc. recommends that the concrete slab be reinforced with 6x6-W2.1xW2.1 welded wire fabric at 1 1/2" concrete cover from the top. In lieu of welded wire fabric, 2" XOREX by Ribbon Technology Corporation or equal corrugated steel fibers applied at a rate of 50-lbs./Cubic Yard may be used. Nylon or polypropylene fiber are not recommended.
- Crack control joints shall be sawed into slab to form approximate square patterns. The maximum spacing for control joints shall not exceed 12'-6", unless shown otherwise on this drawing. The bleacher frames shall not be set on control joints. The designer shall contact NRS to coordinate joint spacing requirements with the specific bleacher design.
- The slab may be sloped a maximum of 1/8 inch per foot for drainage. The maximum overall out of level slope for the slab perpendicular to the seats (front to rear) shall not exceed 2" and parallel to the seats (end to end) shall not exceed 4".

NOTE: CONCRETE PAD DOES NOT INCLUDE
WHEELCHAIR EGRESS IN FRONT OF BLEACHER.
ADD 5'-3" IN OVERALL DEPTH TO
ACCOMMODATE WHEELCHAIRS.

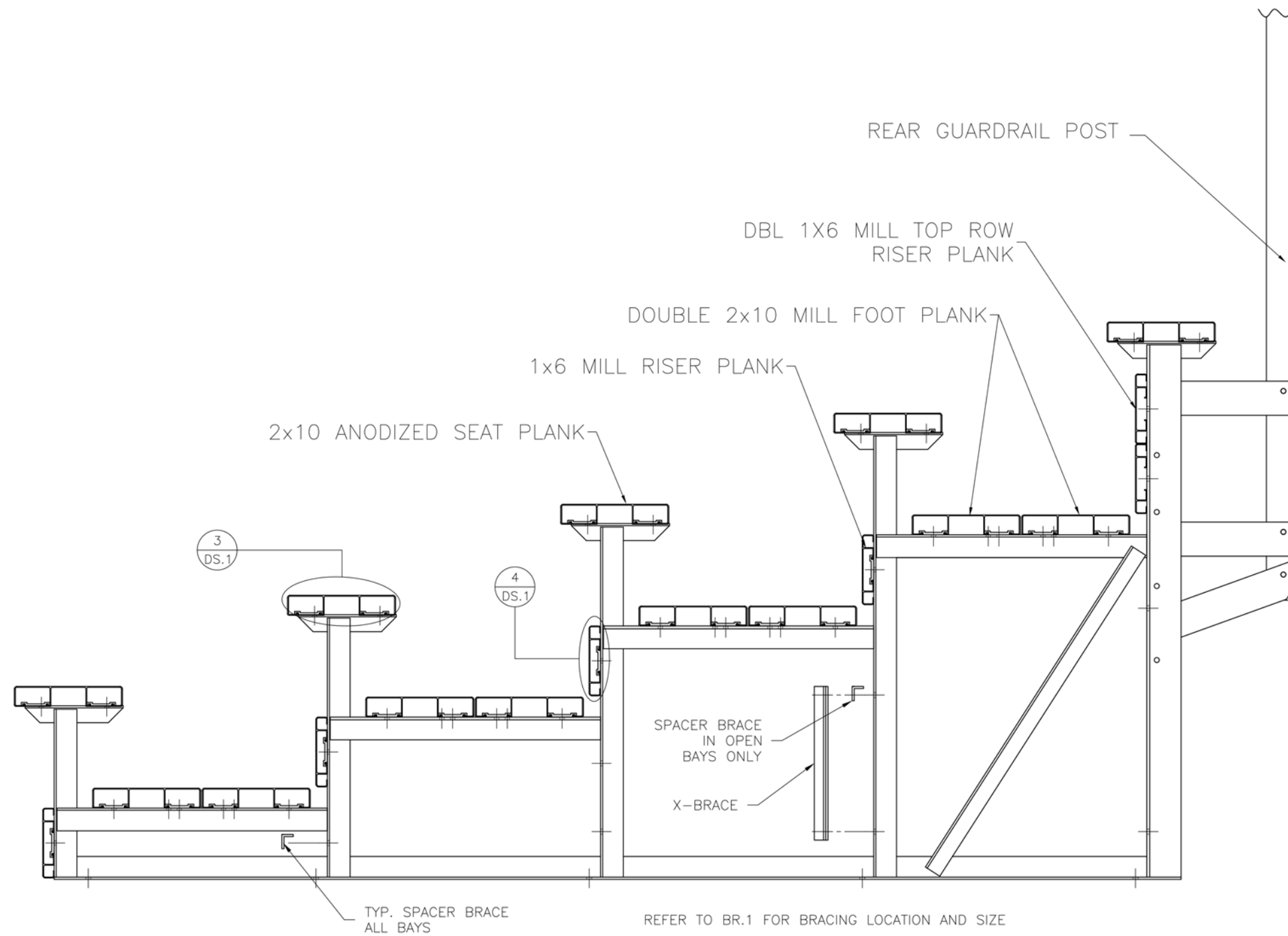


THE PARK AND FACILITIES CATALOG		
3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431		
SCALE: N.T.S.	APPROVED BY:	DRAWN BY:
DATE: 10/02/2015	CHUCK 5/20/2016	JML
TITLE: NON ELEVATED 5 ROW x 15'-0" FOUNDATION PLAN		
	DRAWING NUMBER:	REV. DATE:
		FP.1

DETAIL "A" - CONCRETE ANCHOR ATTACHMENT



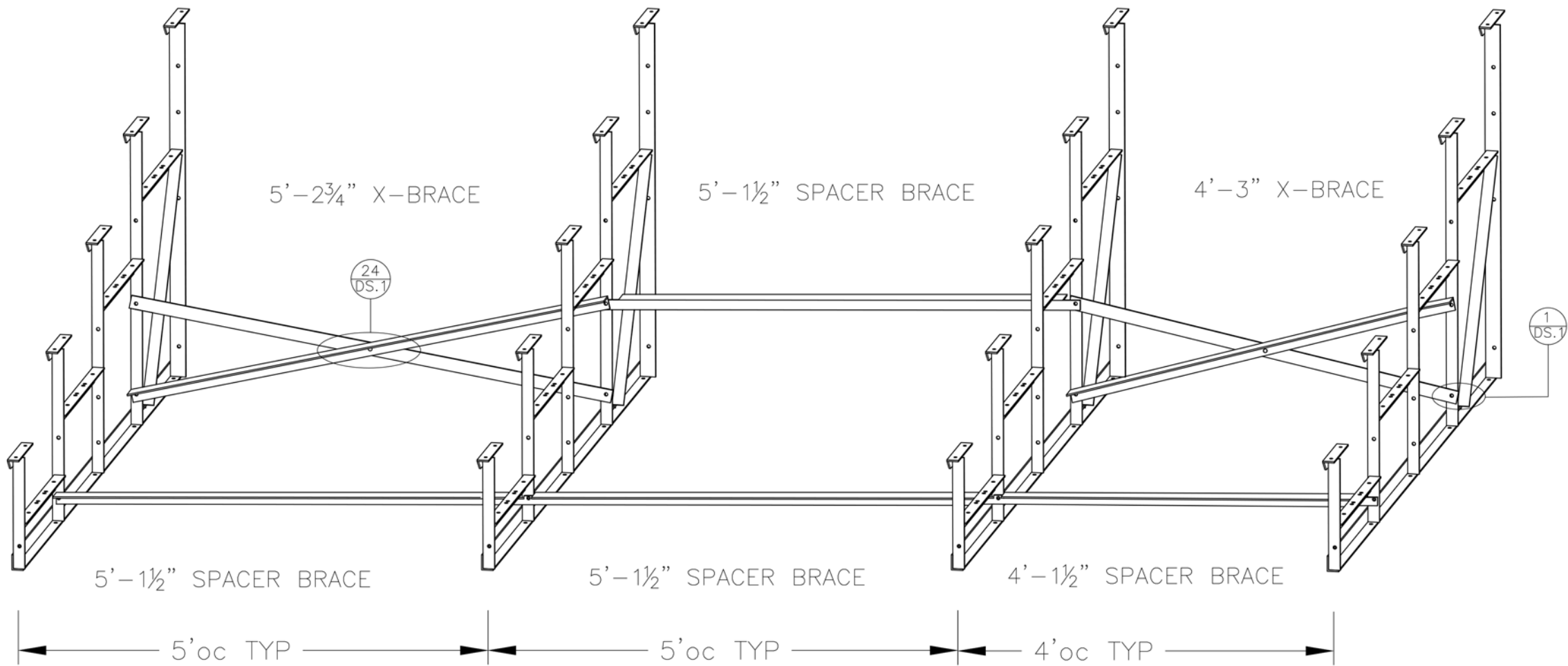
THE PARK AND FACILITIES CATALOG			
3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431			
SCALE:	N.T.S.	APPROVED BY:	DRAWN BY:
DATE:	10/02/2015	CHUCK 5/20/2016	JML
TITLE:			
NON ELEVATED 5 ROW x 15'-0" ANCHORING PLAN			
DRAWING NUMBER:		REV. DATE:	
		AP.1	



THE PARK AND FACILITIES CATALOG
3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431

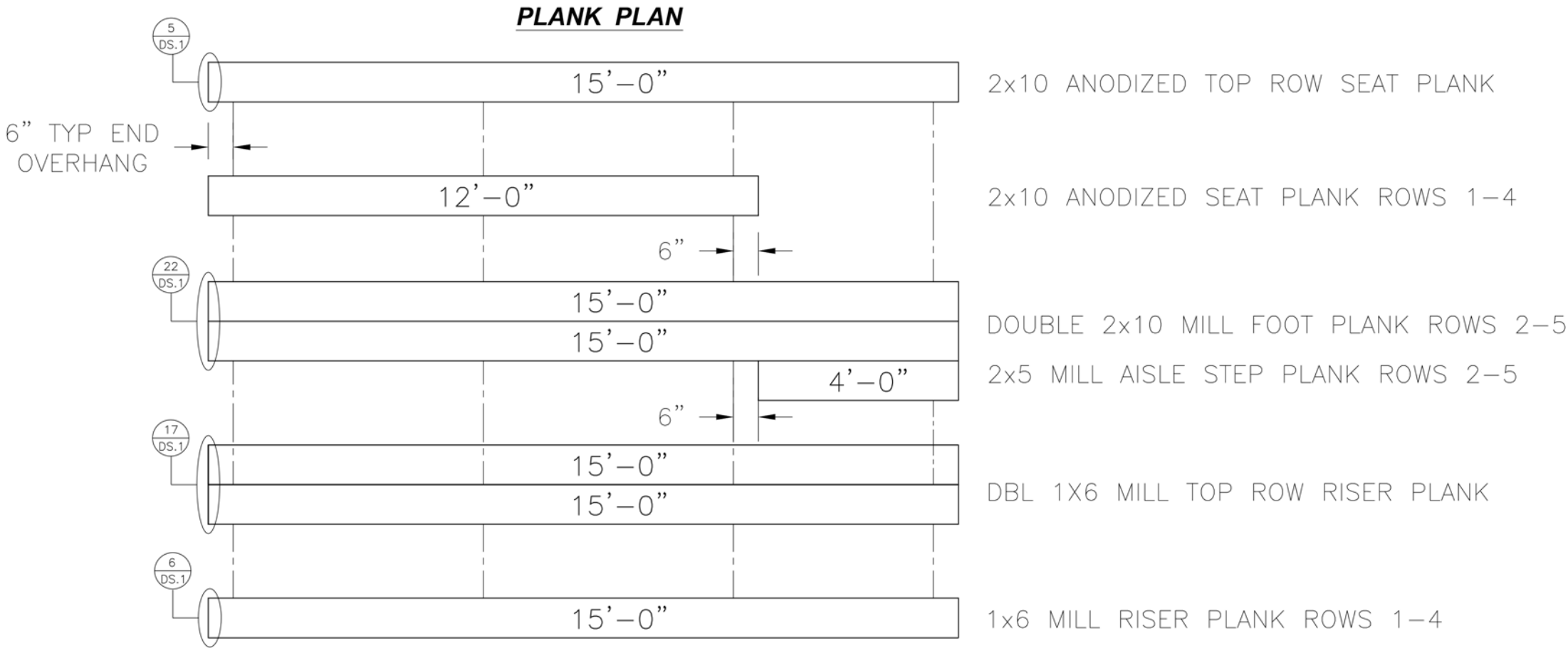
SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: NON ELEVATED 5 ROW x 15'-0" BLEACHER ASSEMBLY		
	DRAWING NUMBER:	REV. DATE:
		BA.1

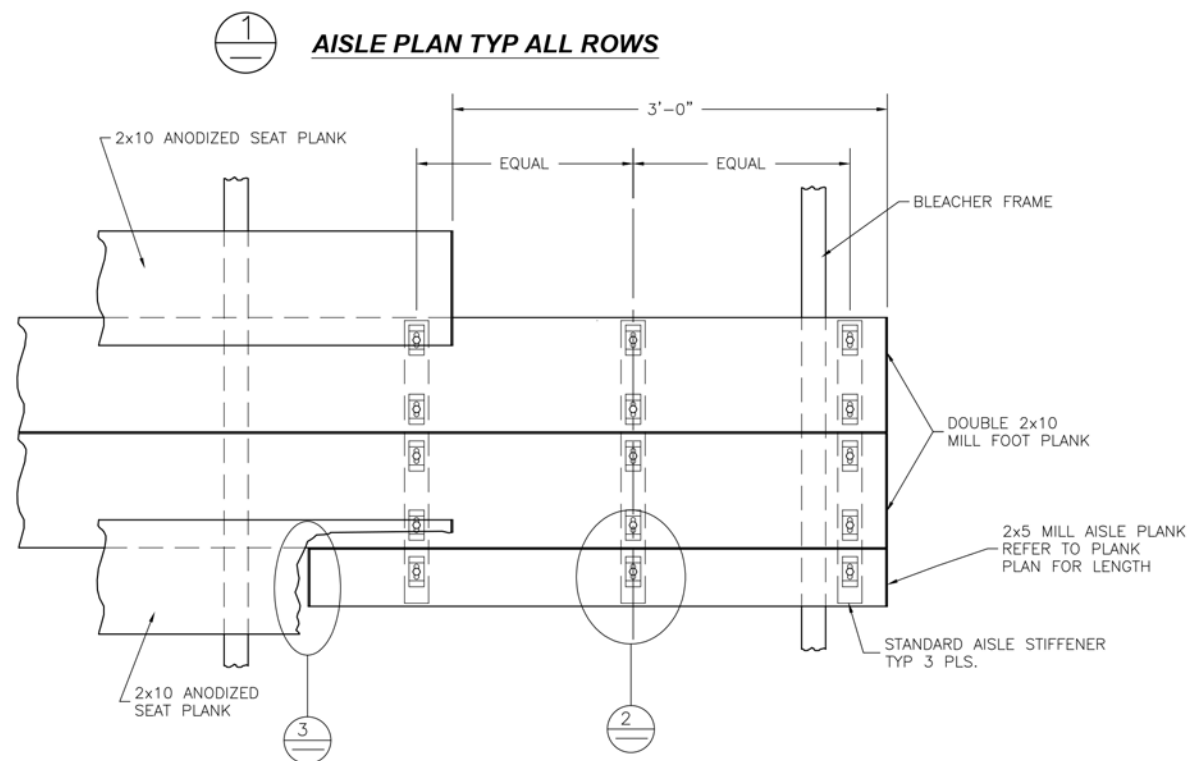
PRE-ASSEMBLE X-BRACE SETS. EACH SET
CONSISTS OF ONE FLAT BAR AND ONE ANGLE.
ONCE ASSEMBLED, THEY WILL BECOME AN "X".
THEY BOLT TOGETHER WITH A $\frac{3}{8}$ " X 1 $\frac{1}{4}$ " HEX HEAD
BOLT AND FLANGE NUT THRU THE CENTER HOLE.
(SEE DETAIL 24 ON DETAIL SHEET)



THE PARK AND FACILITIES CATALOG			
3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431			
SCALE: N.T.S.		APPROVED BY:	
DATE: 11/13/14		CHUCK 5/20/2016	
		DRAWN BY: JML	
TITLE: NON ELEVATED 5 ROW x 15'-0" BRACE ASSEMBLY			
		DRAWING NUMBER:	
		REV. DATE:	
		BR.1	

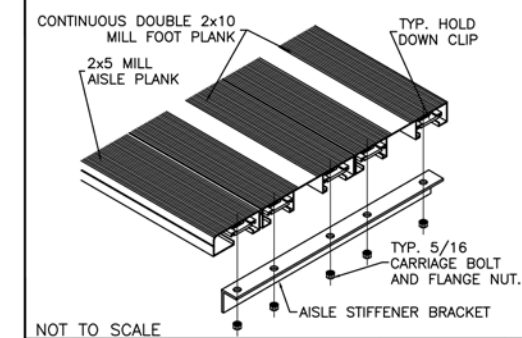
DETAIL IS TO DEPICT CROSS BRACING ATTACHMENT ONLY. FRAME DESIGN MAY VARY.



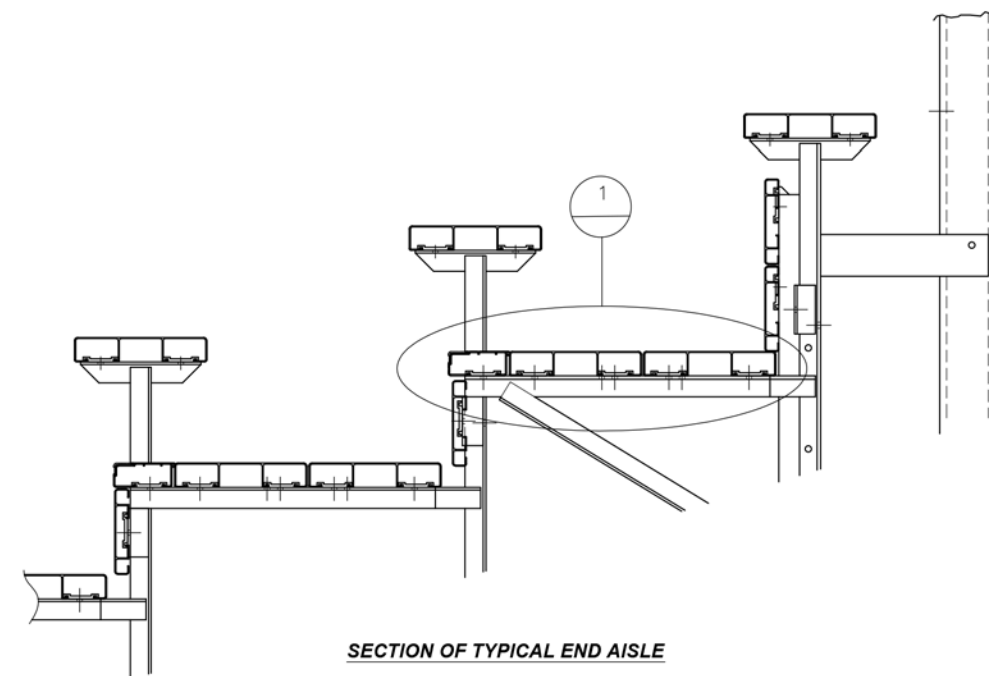
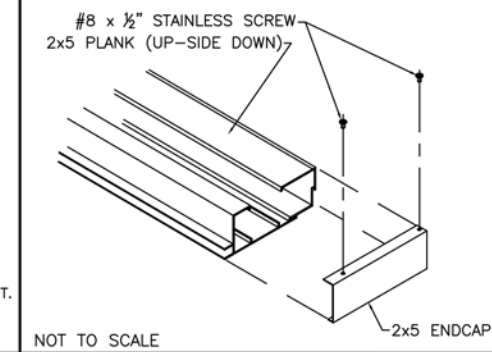


**AISLE AS SHOWN
OR OPPOSITE HAND**

2 TYP. AISLE BKT DETAIL



3 TYP 2x5 ENDCAP ATTACHMENT



SEE APPROPRIATE GUARDRAIL ASSEMBLY PRINT FOR AISLE HANDRAIL ASSEMBLY.

ALIGN EDGE OF FLANGE APPROX. 1/2" FROM THE LEADING EDGE OF THE FRONTMOST CONTINUOUS 2x10 FOOT PLANK (NOT THE 2x5 AISLE STEP PLANK). SLIGHTLY ADJUST FLANGE LOCATION, IF NECESSARY, SO THAT THE BOLT HOLE IS NOT DRILLED INTO A VERTICAL LEG OF THE PLANK. DRILL $\phi 7/16$ " HOLES (FOR 3/8" BOLT). ASSEMBLE AS SHOWN USING BOLTS, & FLANGE NUTS.

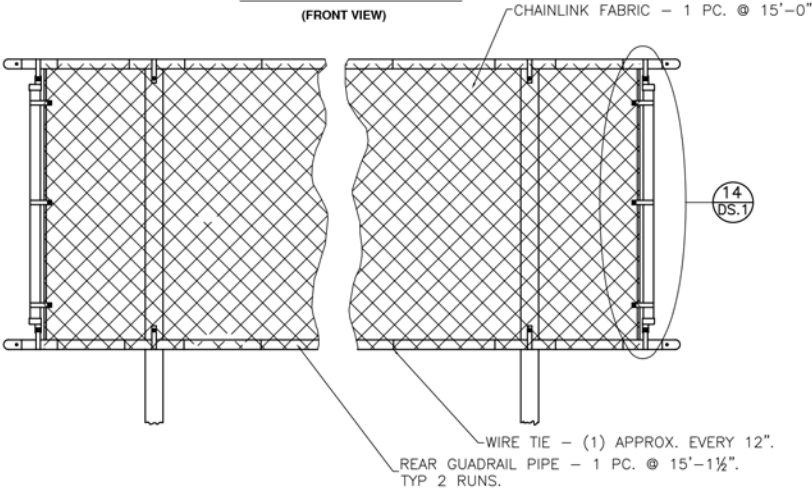
THE PARK AND FACILITIES CATALOG

3350 NW Boca Raton Blvd. B2 Boca Raton FL. 33431

SCALE: N.T.S.	APPROVED BY: CHUCK 5/20/2016	DRAWN BY: JML
DATE: 10/02/2015		
TITLE: NON ELEVATED 5 ROW x 15'-0" PLANK & FRAMING PLAN		
	DRAWING NUMBER:	REV. DATE: VA

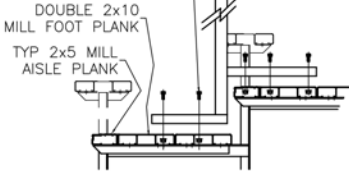
REAR GUARDRAIL

(FRONT VIEW)



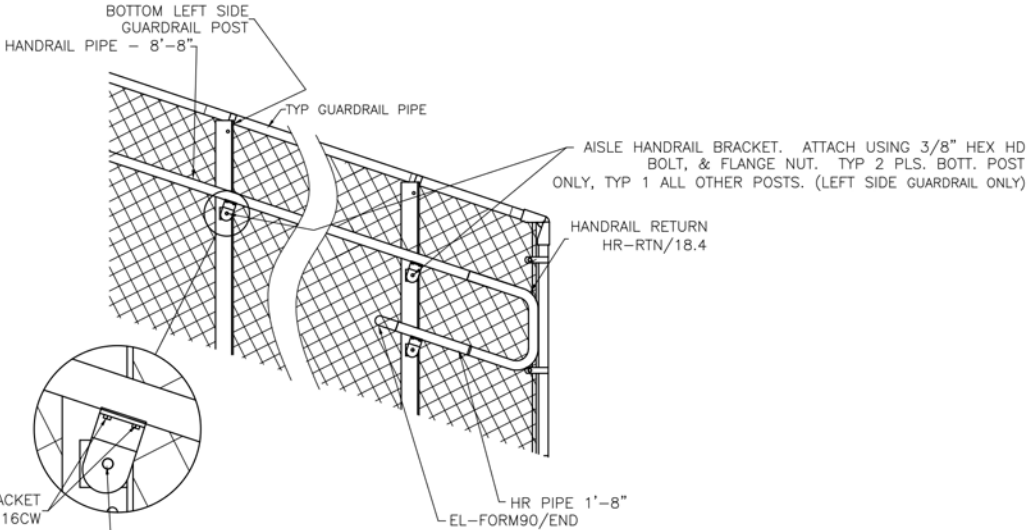
ATTACH SIDE POST TO END OF BLEACHER USING 3/8" CARRIAGE BOLT, & FLANGE NUT. TYP 5 PLS. PER POST

FOOT-TO-FOOT SIDE GUARDRAIL POST



DETAIL 'A'

FOOT-TO-FOOT SIDE GUARDRAIL POST ATTACHMENT

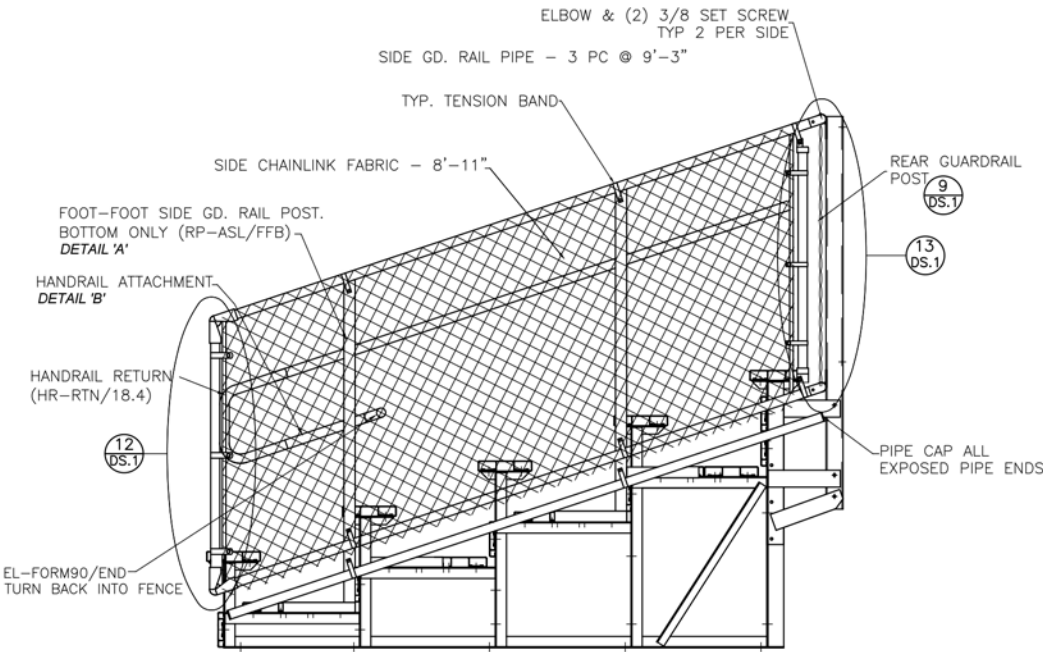
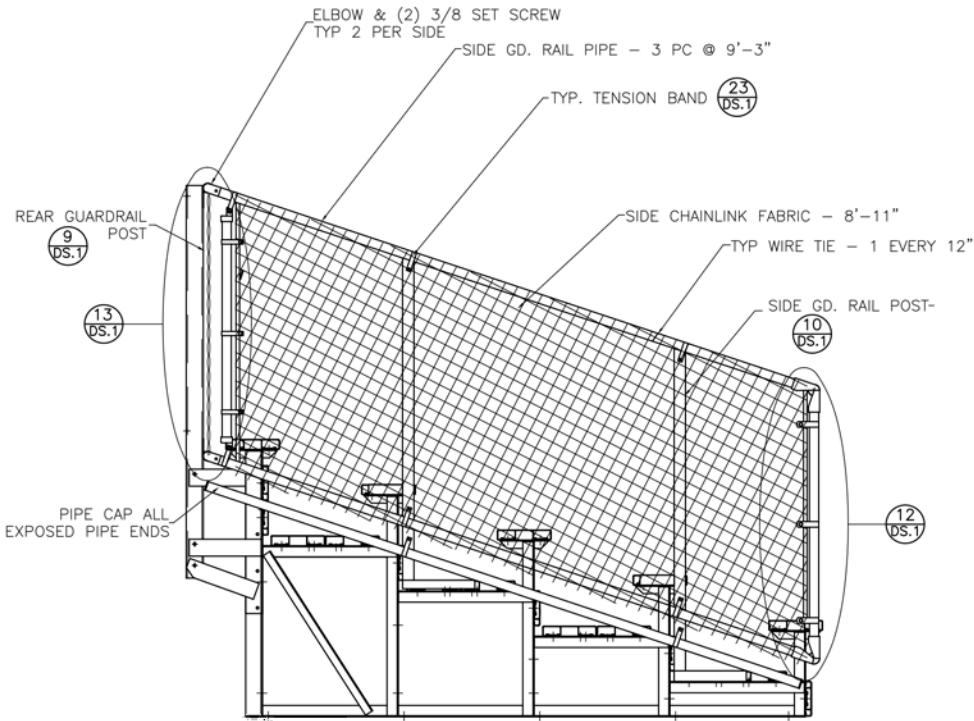


ATTACH HANDRAIL PIPE TO HANDRAIL BRACKET USING 3/8 TEK SCREW. SCRTEK12116CW

ATTACH BRACKET WITH A 3/8"x1 1/4" HEX HEAD BOLT AND 3/8 FLANGE NUT

DETAIL 'B'

HANDRAIL AS SEEN FROM AISLE



THE PARK AND FACILITIES CATALOG

3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431

SCALE: N.T.S.

APPROVED BY:

DRAWN BY:

DATE: 10/02/2015

CHUCK 5/20/2016

JML

TITLE:

NON ELEVATED 5 ROW x 15'-0" GUARD RAIL ASSEMBLY

DRAWING NUMBER:

REV. DATE:

GR.1

1 TYP X-BRACE CONN. W/ 1¼ BOLT NOT TO SCALE	2 TYP X-BRACE CONN. w/ 3/8" BOLT NOT TO SCALE	3 TYP 2x10 PLANK ATTACHMENT NOT TO SCALE	4 TYP 1x6 PLANK ATTACHMENT NOT TO SCALE	5 TYP 2x10 ENDCAP ATTACHMENT NOT TO SCALE	6 TYP 1x6 ENDCAP ATTACHMENT NOT TO SCALE									
7 TYP 2x10 SPLICE CONN. NOT TO SCALE	8 TYP 1x6 SPLICE CONN. NOT TO SCALE	9 REAR GUARDRAIL POST ATTACH. NOT TO SCALE	10 SIDE GD. RAIL POST INSTALLATION NOT TO SCALE	11 VERT. PIPE DETAIL (NE-SIDE, BOT.) NOT TO SCALE	12 VERT. PIPE DET.-ELEV, SIDE, BOT. NOT TO SCALE									
13 VERT. PIPE DETAIL (SIDE, TOP) NOT TO SCALE	14 VERT. PIPE DETAIL-REAR, TOP NOT TO SCALE	15 PIPE COUPLER INSTALLATION NOT TO SCALE	16 VERT. PIPE DETAIL (FRNT. END) NOT TO SCALE	17 TYP 1x6 ENDCAP ATTACHMENT NOT TO SCALE	18 RB-210/BOLT DETAIL NOT TO SCALE									
19 VERTICAL PIPE DETAIL (REAR) NOT TO SCALE	20 VERT. PIPE DETAIL (FRNT. END) NOT TO SCALE	21 VERT. PIPE DET.- SIDE TOP NOT TO SCALE	22 DBL. 2x10 ENDCAP ATTACHMENT NOT TO SCALE	23 TENSION BAND- ATTACHMENT TENSION BAND TURN UP ON TOP RAIL ONLY NOT TO SCALE	24 TYP X-BRACE CONN. W/ 1¼ BOLT NOT TO SCALE									
25 LOWER PIPE BRACKET ATTACH. NOT TO SCALE	THE PARK AND FACILITIES CATALOG 3350 NW Boca Raton Blvd. B2 Boca Raton Fl. 33431 <table><tr><td>SCALE: N.T.S.</td><td>APPROVED BY: CHUCK 5/20/2016</td><td>DRAWN BY: JML</td></tr><tr><td colspan="3">TITLE: DETAIL SHEETS</td></tr><tr><td colspan="2">DRAWING NUMBER:</td><td>REV. DATE:</td></tr></table> DS.1					SCALE: N.T.S.	APPROVED BY: CHUCK 5/20/2016	DRAWN BY: JML	TITLE: DETAIL SHEETS			DRAWING NUMBER:		REV. DATE:
SCALE: N.T.S.	APPROVED BY: CHUCK 5/20/2016	DRAWN BY: JML												
TITLE: DETAIL SHEETS														
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