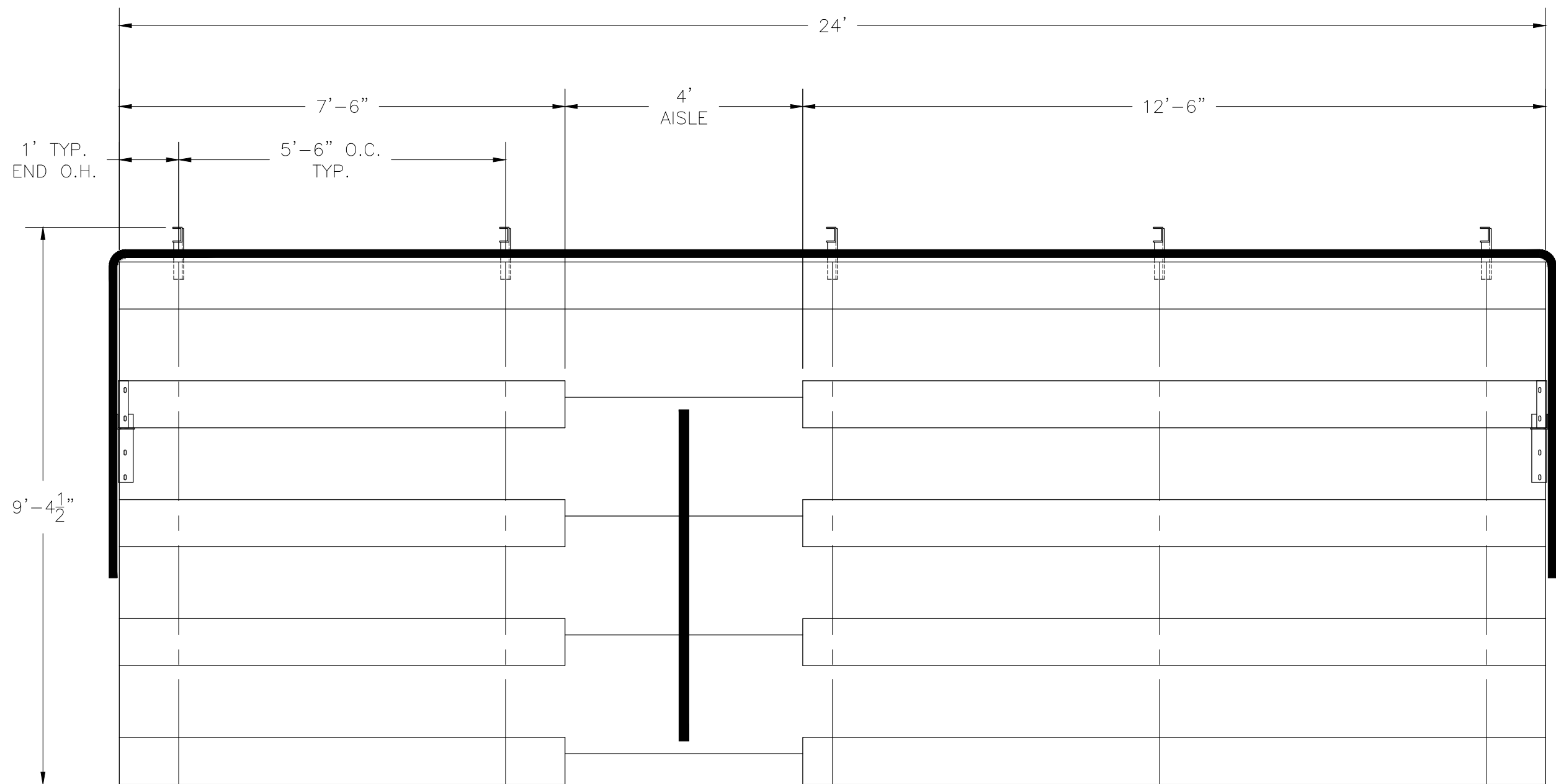


NA-0524DLX_CL

NON ELEVATED 5 ROW x 24'-0" BLEACHER

National Recreation Systems, Inc.

CS.1	– COVER SHEET
TD.1	– BLEACHER SEATING PLAN
BA.1	– BLEACHER ASSEMBLY
BR.1	– BRACE ASSEMBLY
AP.1	– ANCHORING PLAN
FP.1	– FOUNDATION PLAN
PF.1	– PLANK & FRAMING PLAN
VA.1	– VERTICAL AISLE ASSEMBLY
GR.1	– GUARDRAIL ASSEMBLY
DS.1	– DETAIL SHEET

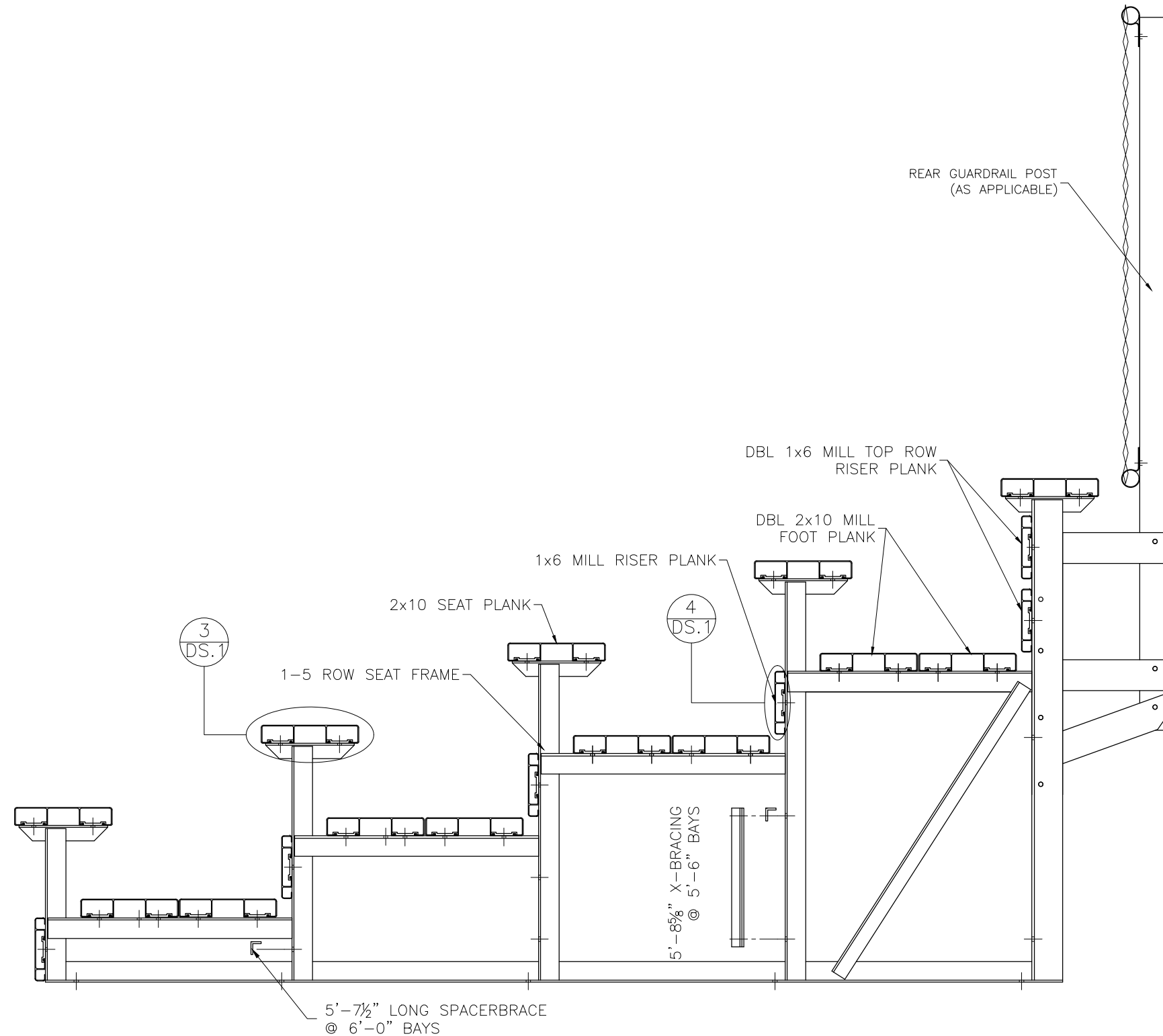


SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
24	16.00	16.00	1	16
7.5	5.00	5.00	4	20
12.5	8.33	8.00	4	32
NET SEATS				68
WHEELCHAIR SPACES				0
TOTAL NET SEATING CAPACITY (BASED ON 18" PER SEAT)				68

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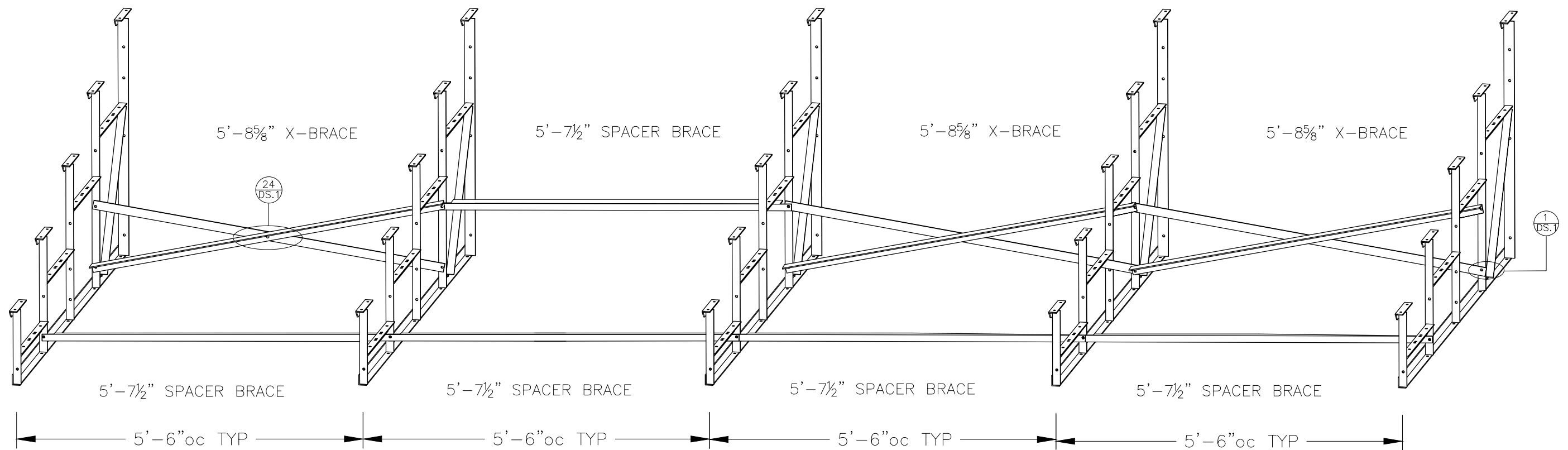
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 07/22/2016		
TITLE: NON ELEVATED 5 ROW x 24'-0" BLEACHER SEATING PLAN		
BLEACHER MODEL #:	NA-0524DLX_CL	DRAWING NUMBER: TD.1



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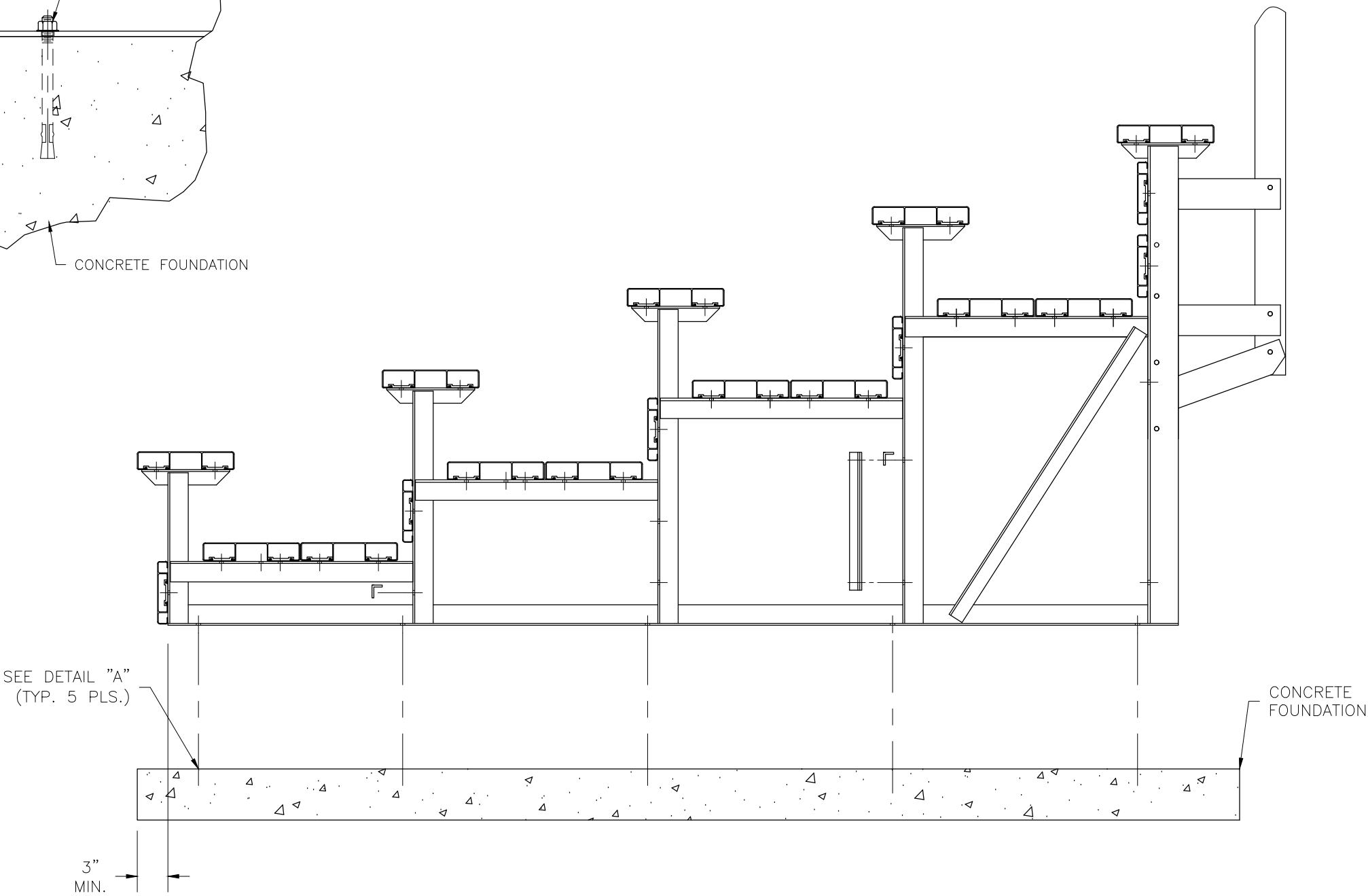
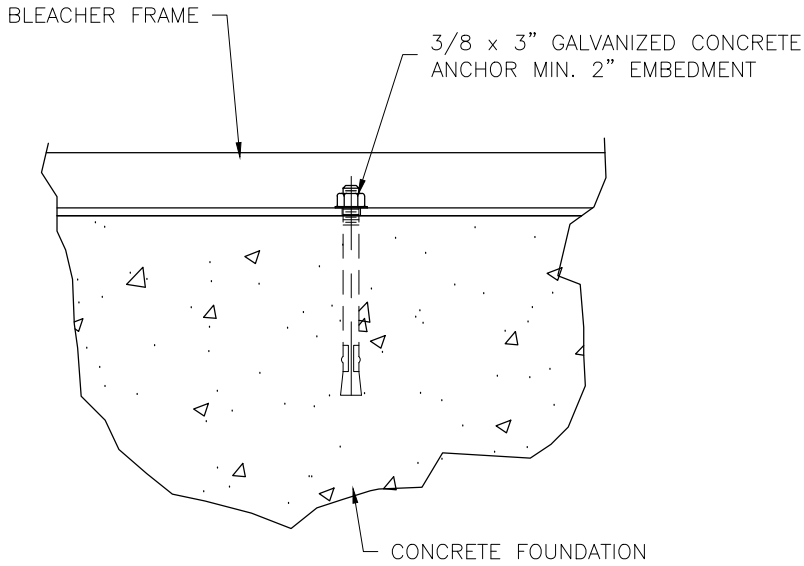
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 07/22/2016		
TITLE: NON ELEVATED 5 ROW x 24'-0" BLEACHER ASSEMBLY		
BLEACHER MODEL #: NA-0524DLX_CL	DRAWING NUMBER: BA.1	



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National Recreation Systems, Inc.		
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 07/22/2016		
TITLE: NON ELEVATED 5 ROW x 24'-0" BLEACHER ASSEMBLY		
BLEACHER MODEL #: NA-0524DLX_CL		DRAWING NUMBER: BR.1

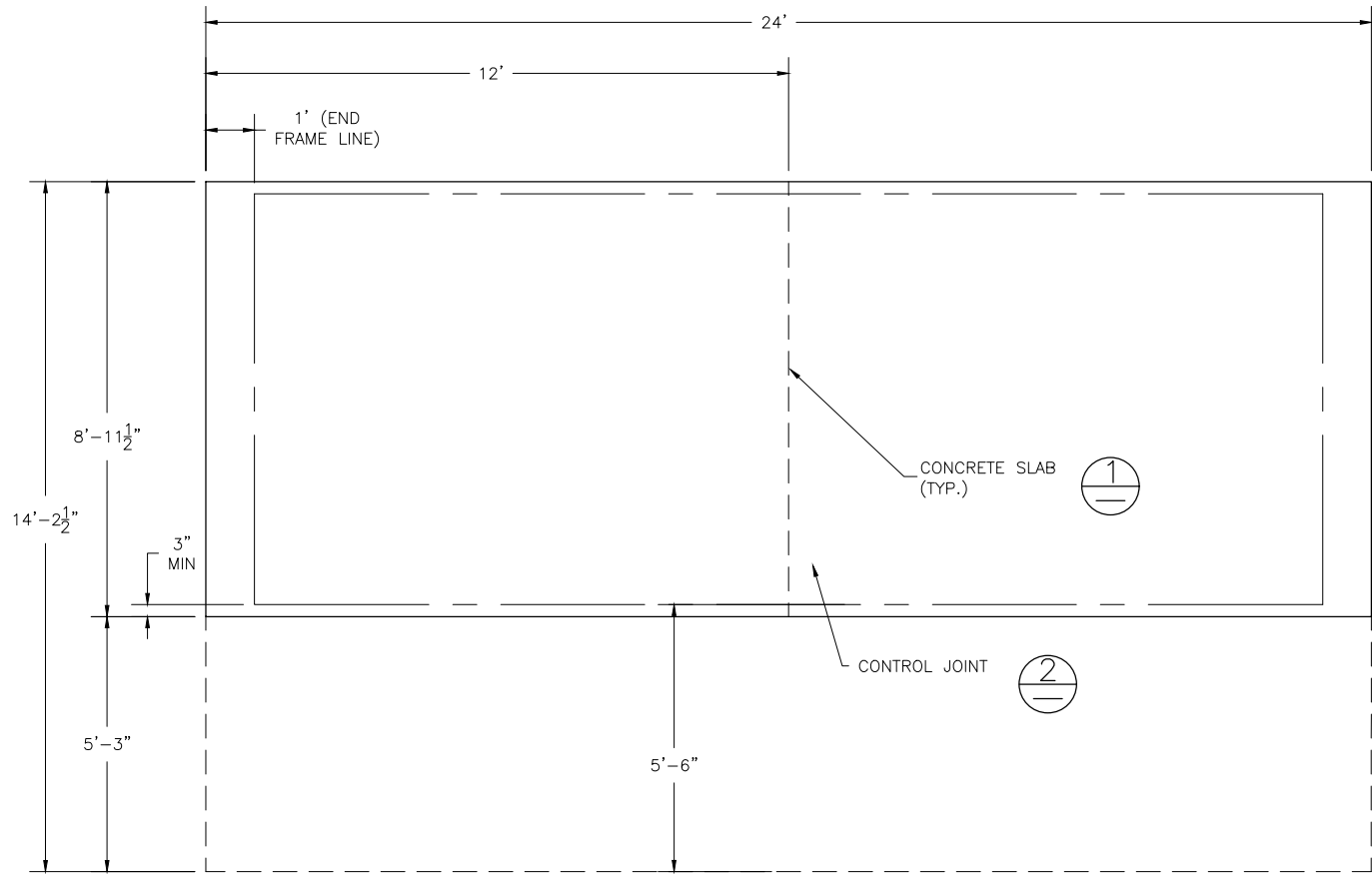
DETAIL "A" - CONCRETE ANCHOR ATTACHMENT



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National Recreation Systems, Inc.

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 07/22/2016		
TITLE: ANCHORING PLAN		
BLEACHER MODEL #: NA-0524DLX_CL	DRAWING NUMBER: AP.1	



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

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:

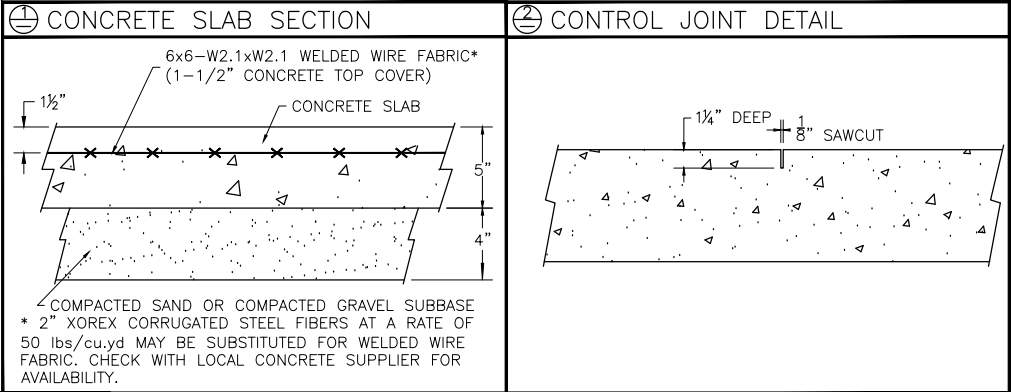
- The foundation designs are based on the following:
 - Minimum presumed soil bearing 1000 psf.
 - Bleacher frame dead and live load 700 lbs./ft.
 - Bleacher frame wind uplift load 250 lbs./ft.
- Unless otherwise noted on the drawings the bleacher frames shall be attached to the concrete with 3/8" dia.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

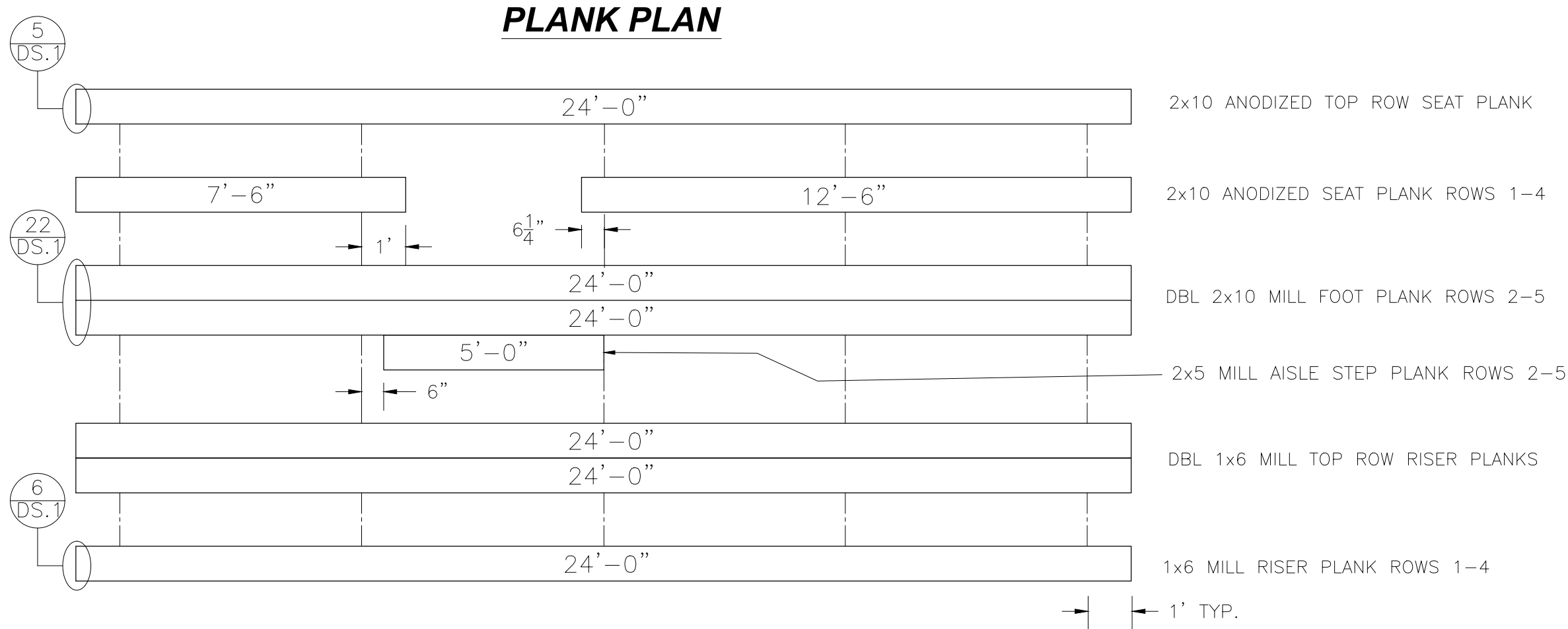
- Concrete slab shall have a minimum thickness of 5" (NRS, Inc. recommends, and some areas may require 6" thickness) and placed on 4" of compacted gravel or compacted sand sub-base.
- NRS, Inc. recommends that the concrete slab be reinforced with 6x6-W2.1xW2.1 welded wire fabric at 1 1/2" concrete cover 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".



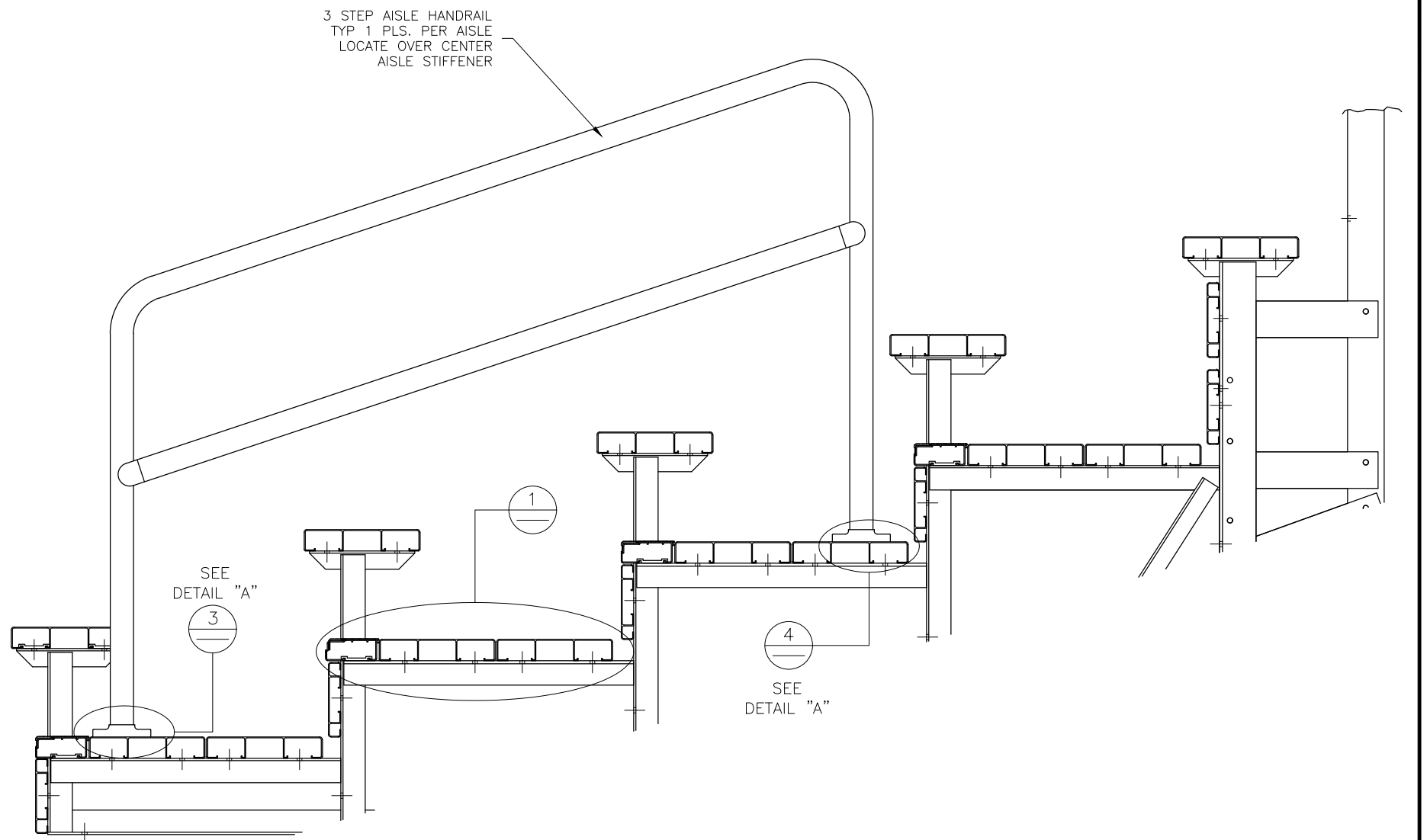
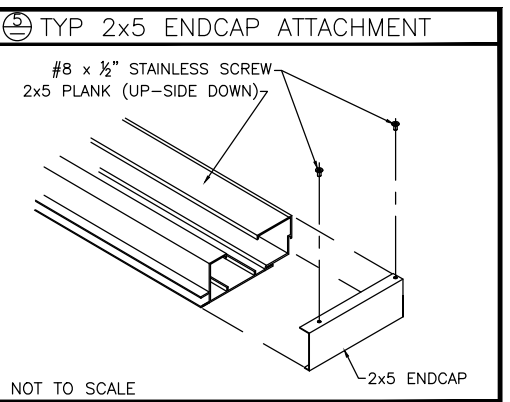
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National Recreation Systems, Inc.

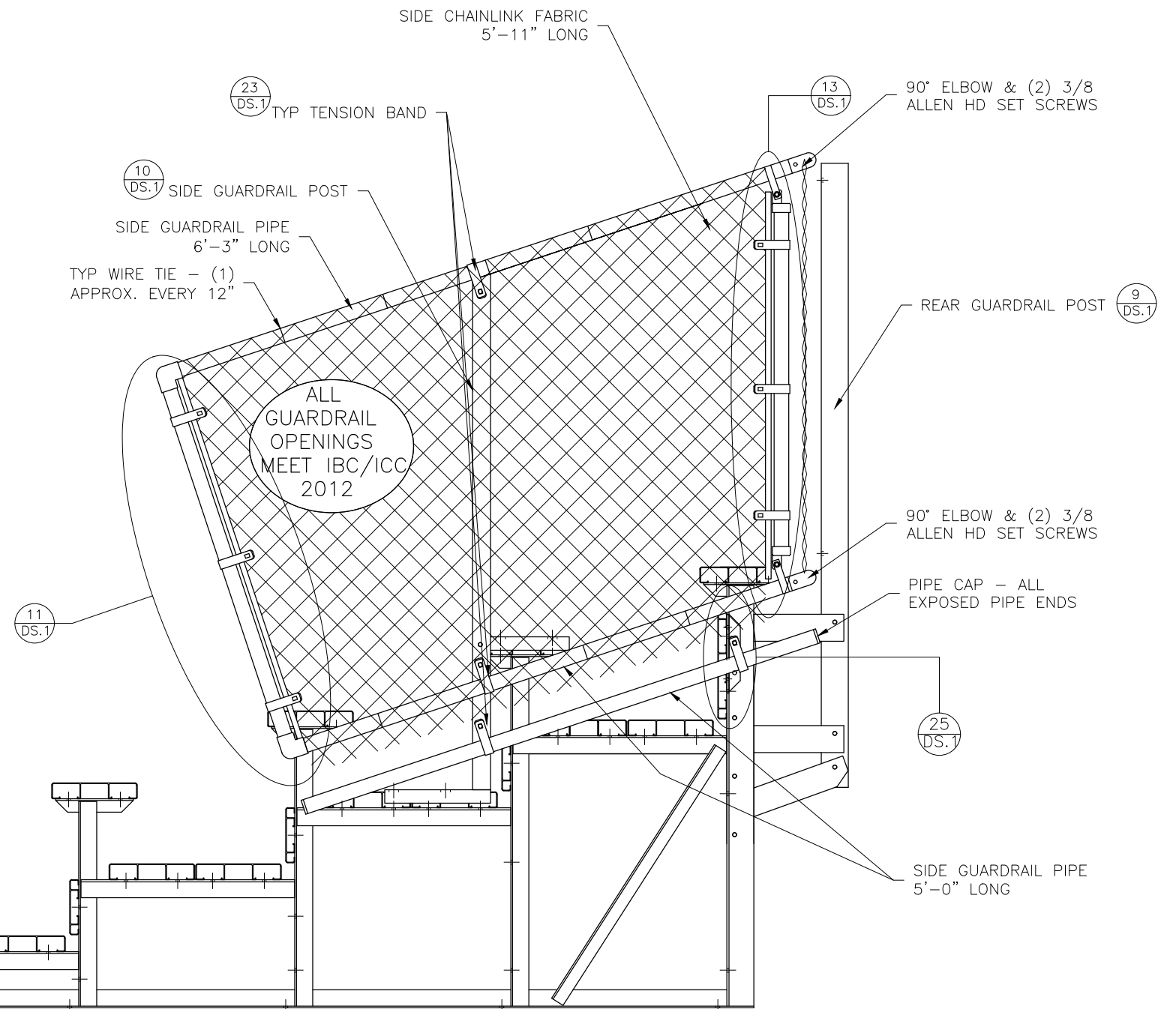
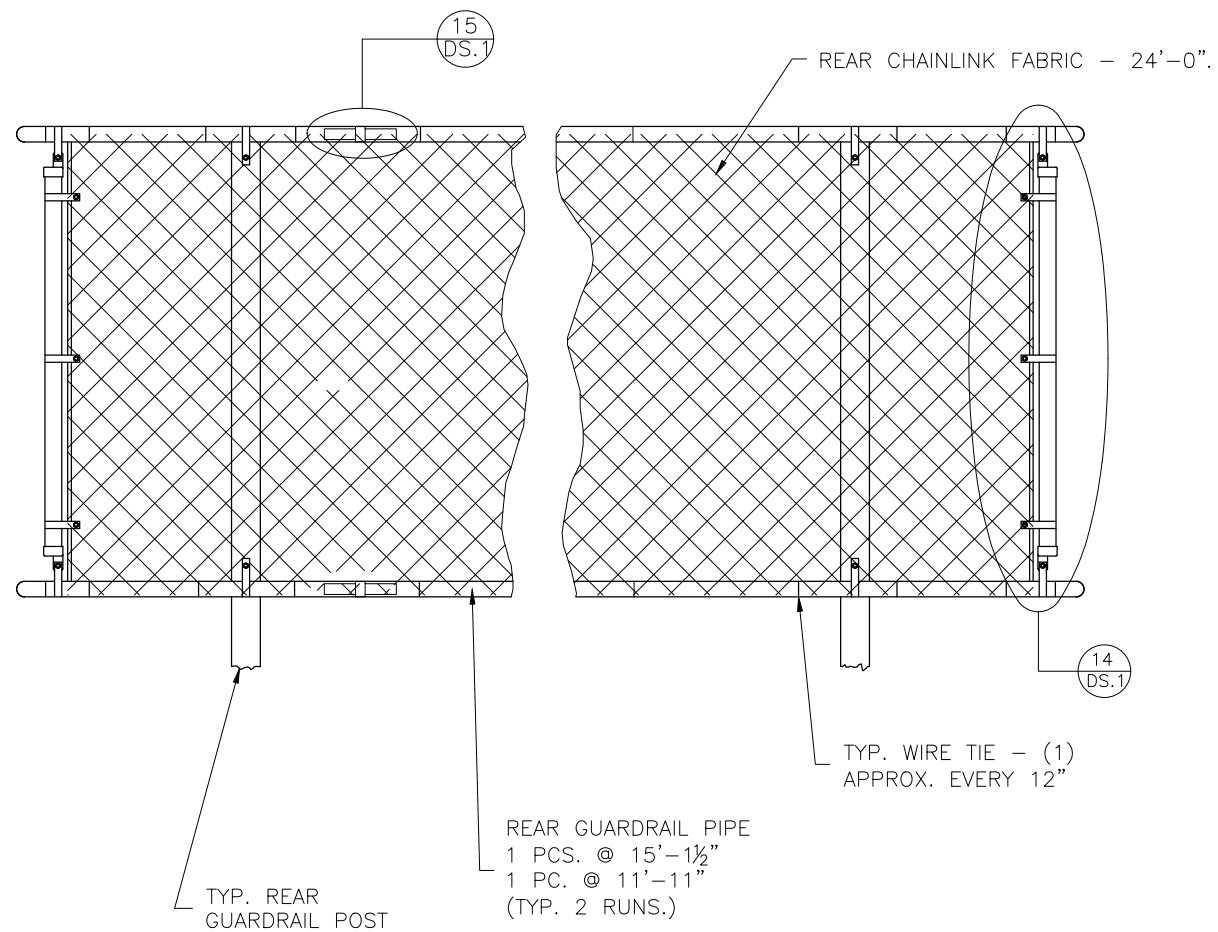
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 07/22/2016		
TITLE: FOUNDATION		
BLEACHER MODEL #: NA-0524DLX_CL	DRAWING NUMBER: FP.1	



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	SCALE:	N.T.S.	APPROVED BY:
	DATE:	07/22/2016	
			DRAWN BY:
			JML
	TITLE:		
NON ELEVATED 5 ROW x 24'-0" PLANK & FRAMING PLAN			
BLEACHER MODEL #:		DRAWING NUMBER:	
NA-0524DLX_CL		PF.1	



SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 07/22/2016		
TITLE: NON ELEVATED 5 ROW x 24'-0" VERTICAL AISLE ASSEMBLY		
BLEACHER MODEL #:	NA-0524DLX_CL	DRAWING NUMBER: VA.1



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SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 07/22/2016		
TITLE: NON ELEVATED 5 ROW x 24'-0" GUARD RAIL ASSEMBLY		
BLEACHER MODEL #: NA-0524DLX_CL	DRAWING NUMBER: GR.1	

TYP X-BRACE CONN. W/ 1 1/4" BOLT NOT TO SCALE	TYP X-BRACE CONN. w/3" BOLT NOT TO SCALE	TYP 2x10 PLANK ATTACHMENT NOT TO SCALE	TYP 1x6 PLANK ATTACHMENT NOT TO SCALE	TYP 2x10 ENDCAP ATTACHMENT NOT TO SCALE	TYP 1x6 ENDCAP ATTACHMENT NOT TO SCALE
TYP 2x10 SPLICE CONN. NOT TO SCALE	TYP 1x6 SPLICE CONN. NOT TO SCALE	REAR GUARDRAIL POST ATTACH. NOT TO SCALE	SIDE GD. RAIL POST INSTALLATION NOT TO SCALE	VERT. PIPE DETAIL (NE-SIDE,BOTT.) NOT TO SCALE	VERT. PIPE DET.-ELEV, SIDE, BOT. NOT TO SCALE
VERT. PIPE DETAIL (SIDE, TOP) NOT TO SCALE	VERT. PIPE DETAIL-REAR, TOP NOT TO SCALE	PIPE COUPLER INSTALLATION NOT TO SCALE	VERT. PIPE DETAIL (FRNT.END) NOT TO SCALE	FINGER MOUNT DETAIL NOT TO SCALE	RB-210/BOLT DETAIL NOT TO SCALE
VERTICAL PIPE DETAIL (REAR) NOT TO SCALE	VERT. PIPE DETAIL (FRNT.END) NOT TO SCALE	VERT. PIPE DET.- SIDE TOP NOT TO SCALE	DBL. 2x10 ENDCAP ATTACHMENT NOT TO SCALE	TENSION BAND ATTACHMENT NOT TO SCALE	TYP X-BRACE CONN. W/ 1 1/4 BOLT NOT TO SCALE
LOWER PIPE BRACKET ATTACH. NOT TO SCALE	This drawing and all information contained herein is the property of NATIONAL RECREATION SYSTEMS, INC. and is not to be reproduced without express written permission of this manufacturer. We assume no responsibility for unauthorized use of this drawing. National Recreation Systems, Inc. is not responsible for local permits and occupancy requirements. National Recreation Systems, Inc. SCALE: N.T.S. DATE: 07/22/2016 TITLE: DETAIL SHEETS BLEACHER MODEL #: NA-0524DLX_CL APPROVED BY: DRAWN BY: JML DRAWING NUMBER: DS.1				