

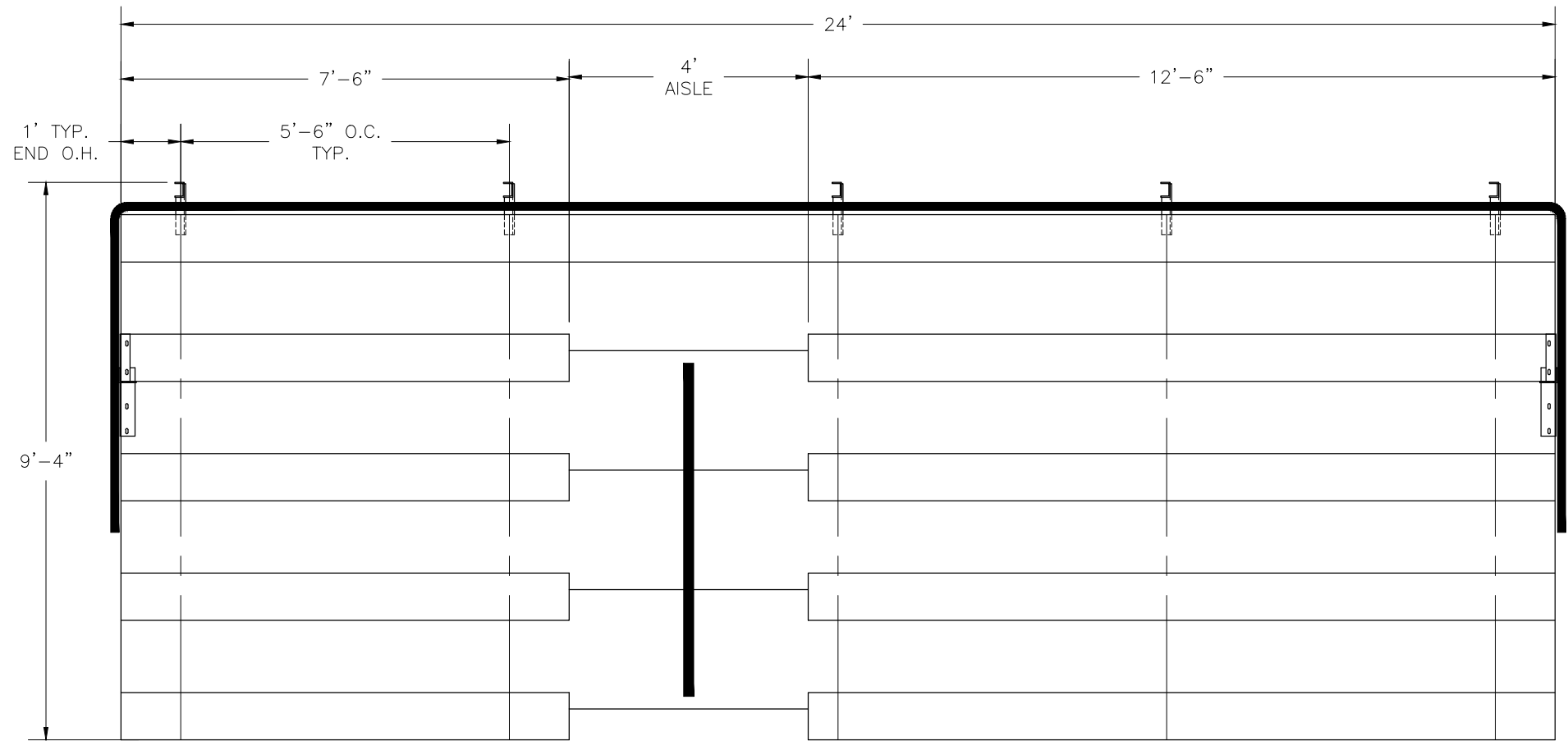


335b/620-5 Assembly Drawings

5 Row - Galvanized Steel Frame - Aluminum Bleachers - Non-Elevated - Chain-link Guardrail System - Deluxe Series - 24 Feet - Aisle Center - Weight: 1646lbs - Seats 68

Park Warehouse, LLC
7495 W. Atlantic Ave. Suite 200-294, Delray Beach, FL 33446

CS.1	– COVER SHEET
TD.1	– BLEACHER SEATING PLAN
FP.1	– FOUNDATION PLAN
AP.1	– ANCHORING PLAN
BA.1	– BLEACHER ASSEMBLY
PF.1	– PLANK & FRAMING PLAN
BR.1	– BRACE ASSEMBLY
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.

DATE: 10/13/14

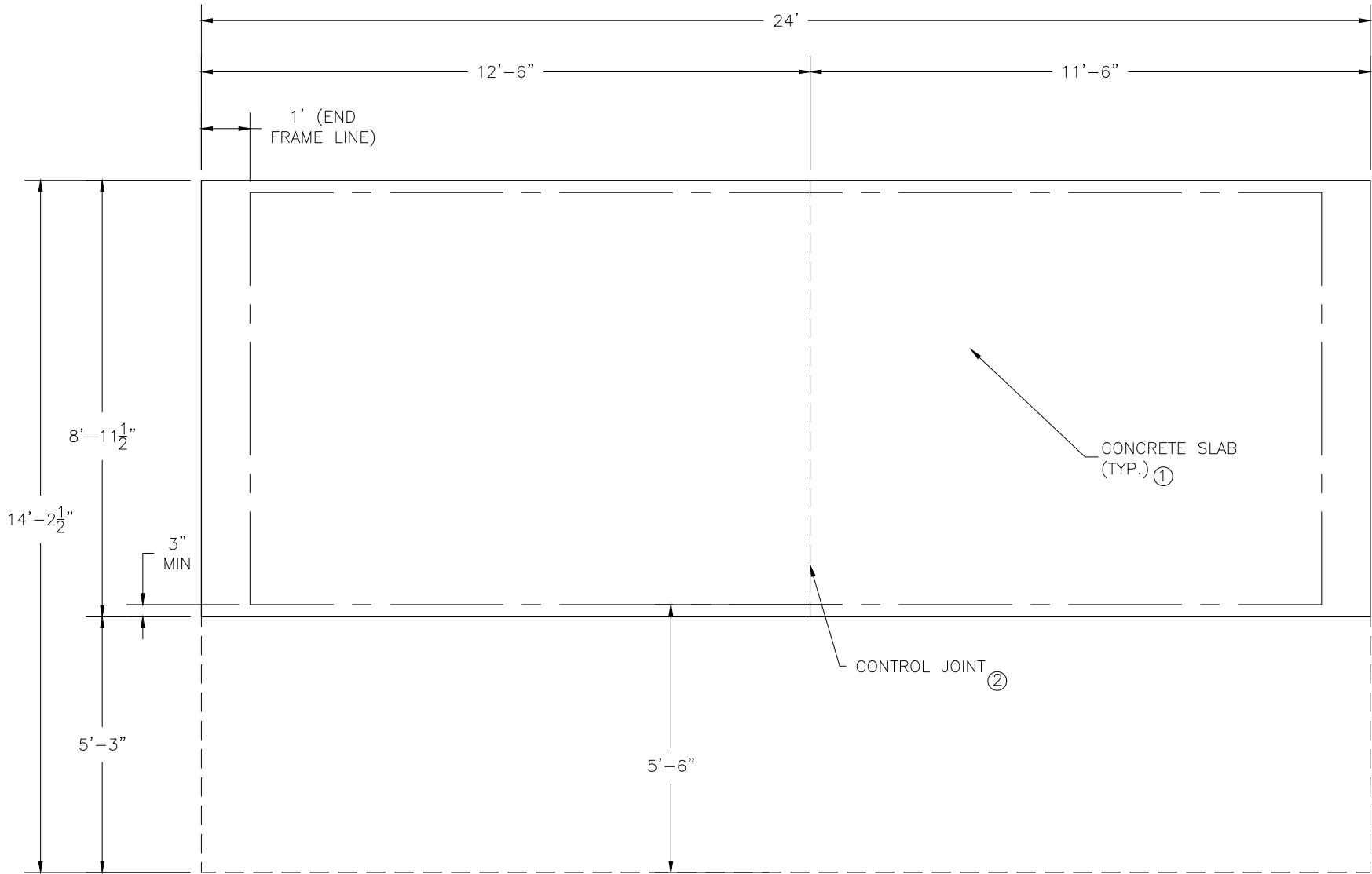
TITLE: NON ELEVATED 5 ROW X 24'-0" BLEACHER SEATING PLAN

BLEACHER MODEL #: 335bl620-5-DLX

APPROVED BY:

DRAWN BY: JML

DRAWING NUMBER: TD.1



CONCRETE FOUNDATION SPECIFICATIONS

SCOPE:

Foundation construction is not part of Park Warehouse, LLC.'s (PW) 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 PW.

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.

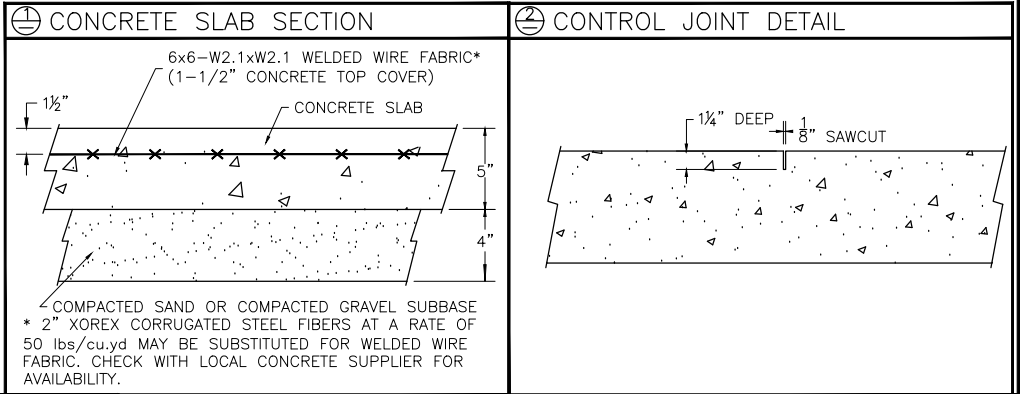
CONCRETE SPECIFICATIONS:

- 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" (PW, LLC. recommends, and some areas may require 6" thickness) and placed on 4" of compacted gravel or compacted sand sub-base.
- PW, LLC. recommends that the concrete slab be reinforced with 6x6-W2.1xW2.1 welded wire fabric at 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 PW 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.



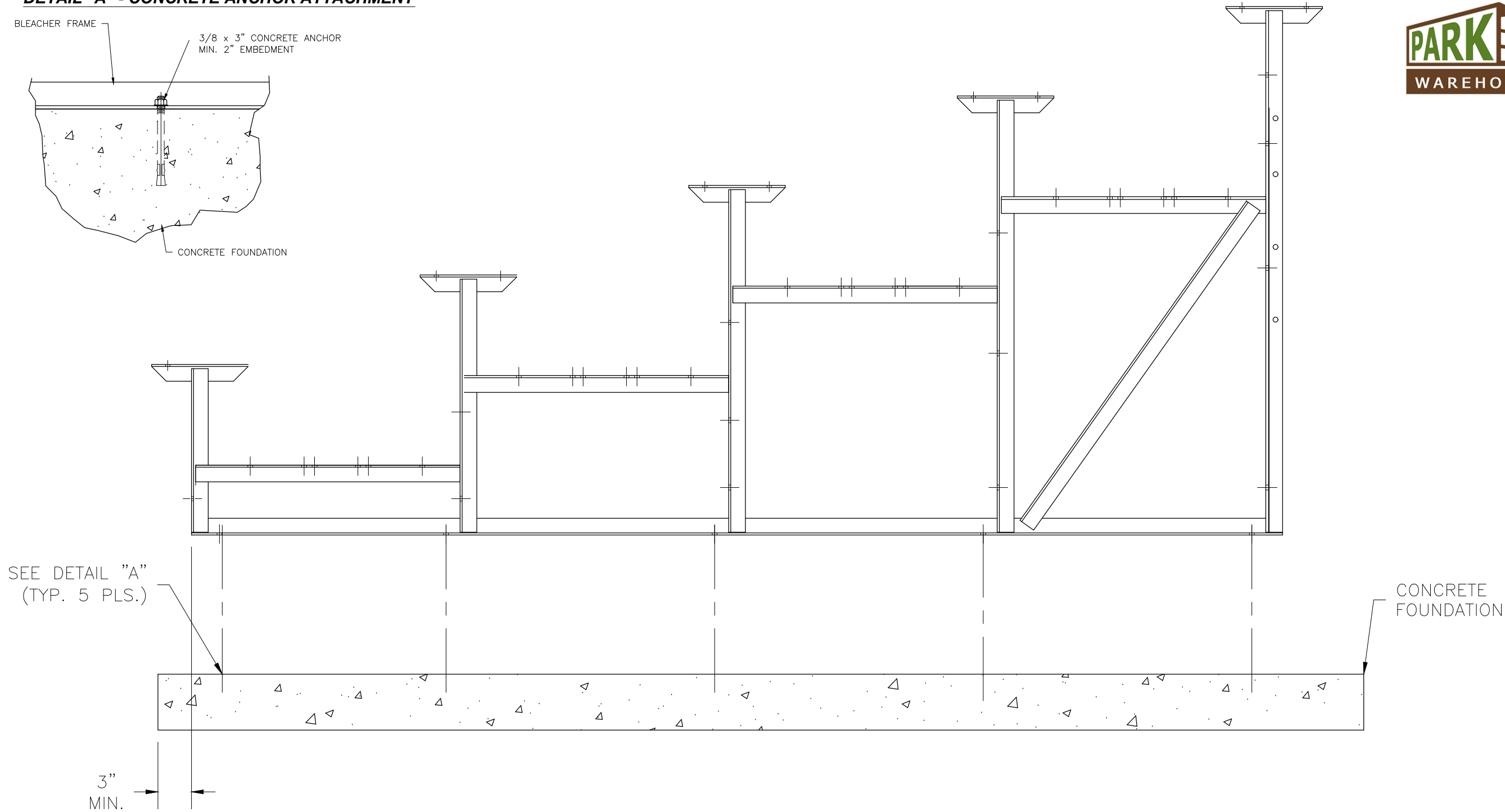
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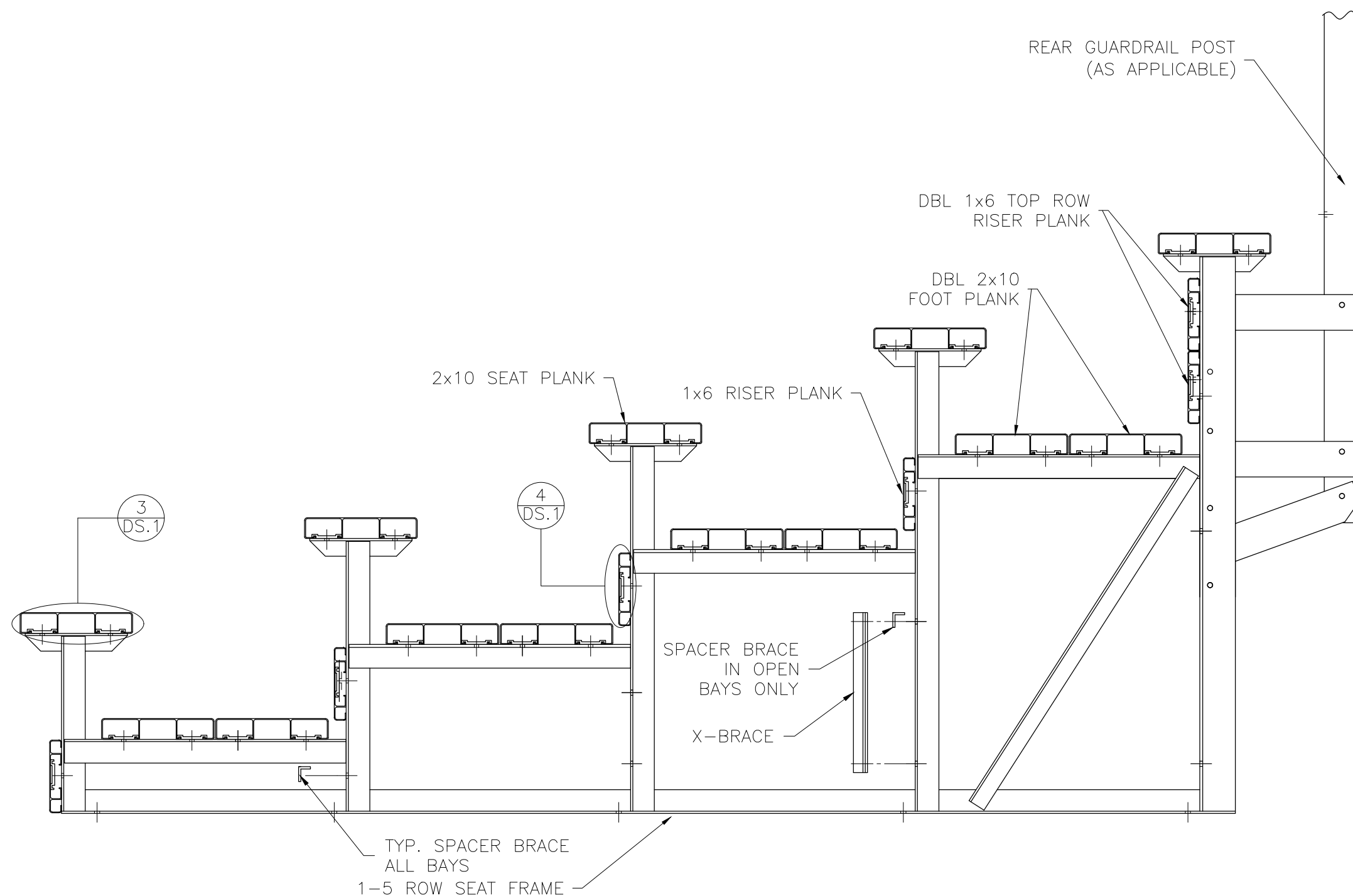
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/13/14		
TITLE: NON ELEVATED 5 ROW X 24'-0" FOUNDATION PLAN		
BLEACHER MODEL #: 335bl620-5-DLX		DRAWING NUMBER: FP.1

DETAIL "A" - CONCRETE ANCHOR ATTACHMENT



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SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
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TITLE: ANCHORING PLAN		
BLEACHER MODEL #:	335bl620-5-DLX	DRAWING NUMBER: AP.1



REFER TO BR.1 FOR BRACING LOCATION AND SIZE

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TITLE:

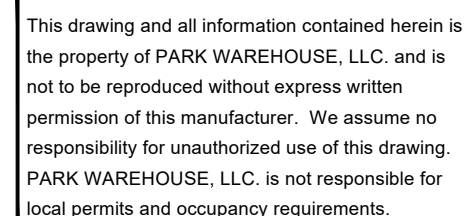
BLEACHER ASSEMBLY

BLEACHER MODEL #:

335bl620-5-DLX

DRAWING NUMBER:

BA.1



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TITLE:

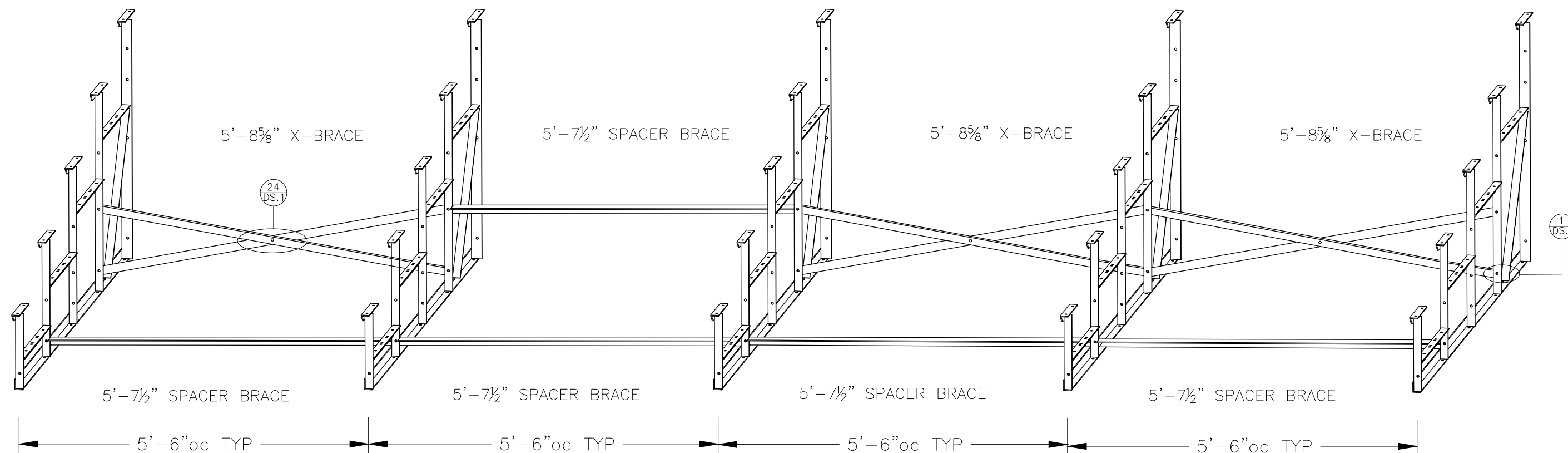
TITLE: NON ELEVATED 5 ROW X 24'-0" PLANK & FRAMING PLAN

BLEACHER MODEL #:

335bl620-5-DLX

DRAWING NUMBER:

PF.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)

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DATE: 10/13/14

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TITLE:

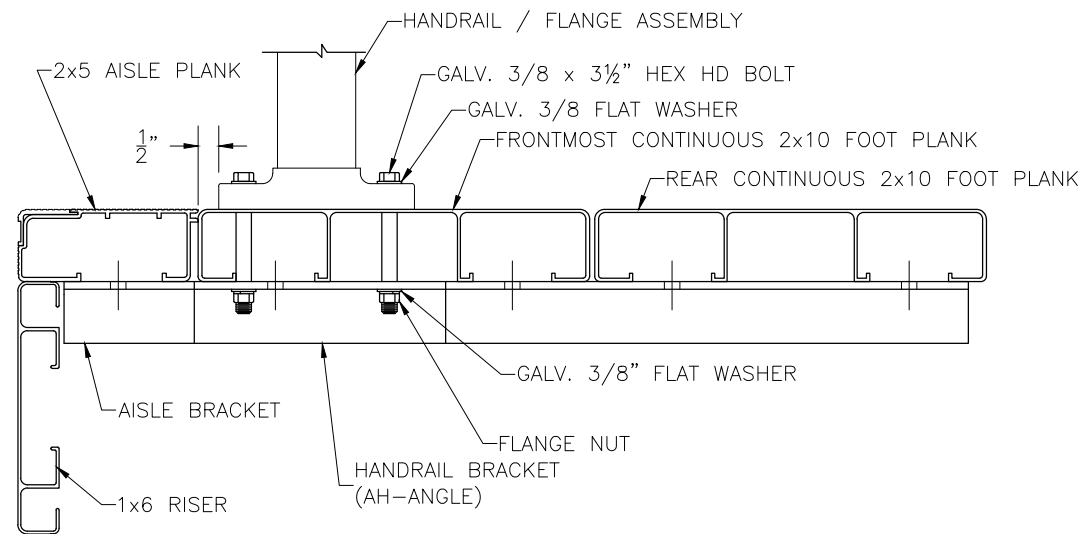
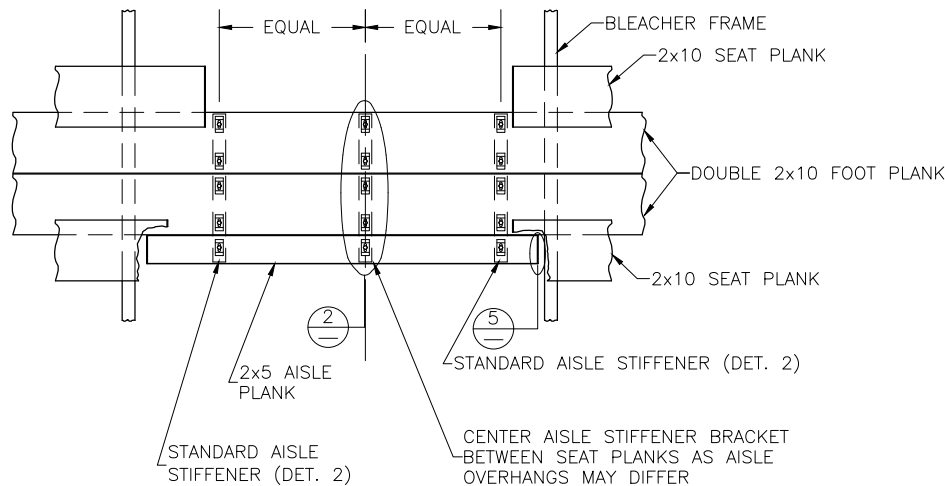
NON ELEVATED 5 ROW X 24'-0" BRACE ASSEMBLY

BLEACHER MODEL #:

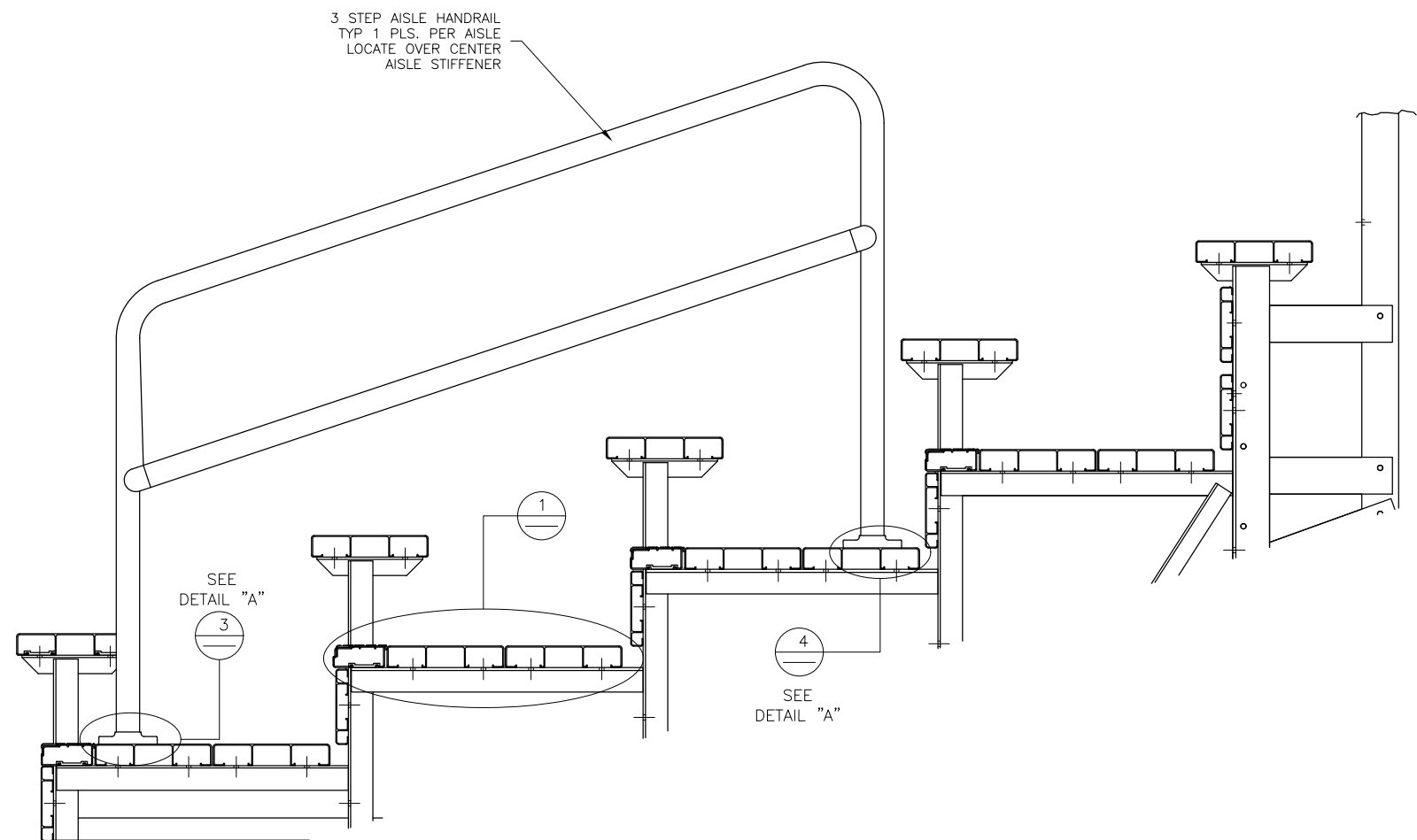
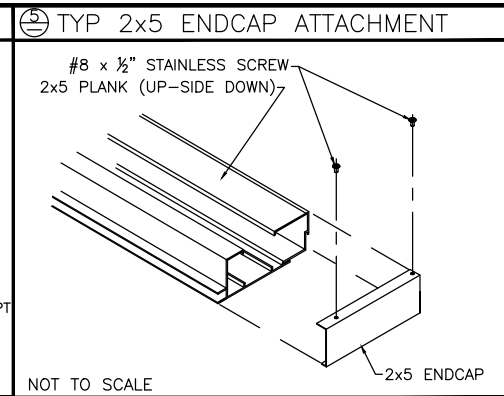
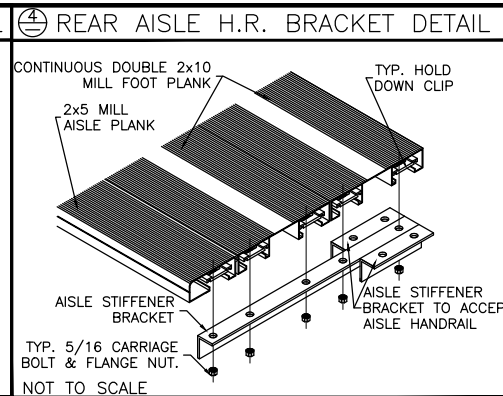
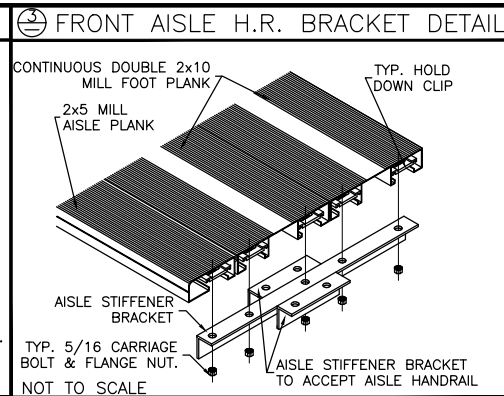
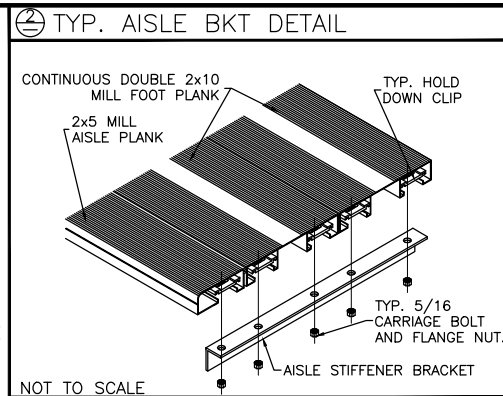
335bl620-5-DLX

DRAWING NUMBER:

BR.1



ALIGN EDGE OF FLANGE APPROX. 1/2" FROM THE LEADING EDGE OF THE FRONT MOST 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 GALV. STEEL BOLTS, FLAT WASHERS & FLANGE NUTS.



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TITLE:

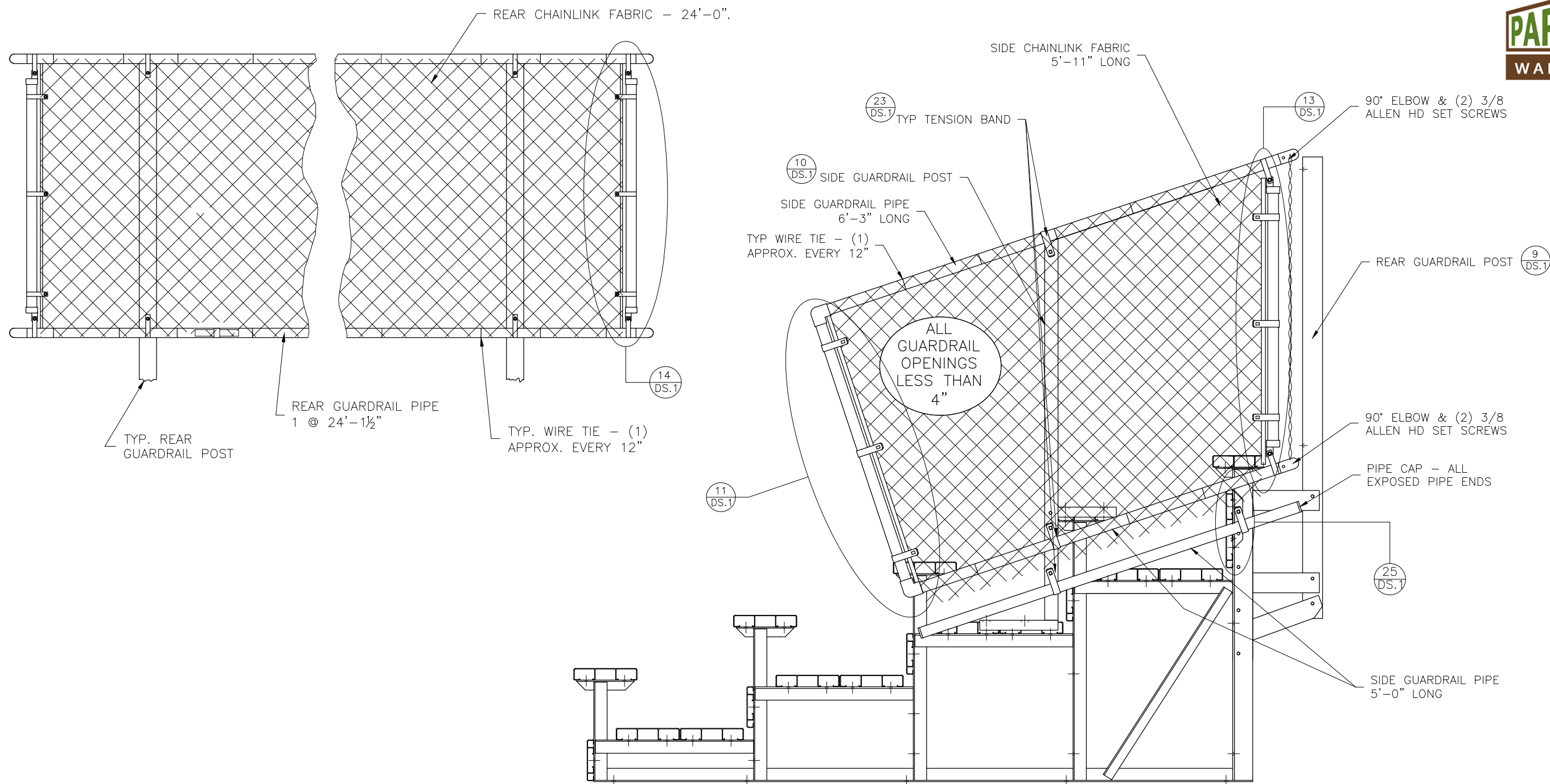
NON ELEVATED 5 ROW X 24'- 0" VERTICAL AISLE ASSEMBLY

BLEACHER MODEL #:

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VA.1



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SCALE: N.T.S.		APPROVED BY:	DRAWN BY:
DATE: 10/13/14			JML
TITLE: NON ELEVATED 5 ROW X 24'-0" GUARD RAIL ASSEMBLY			
BLEACHER MODEL #: 335bl620-5-DLX			DRAWING NUMBER: GR.1

Ⓢ TYP X-BRACE CONN. W/ 1¼ 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/ 1¼ BOLT NOT TO SCALE

Ⓢ LOWER PIPE BRACKET ATTACH. NOT TO SCALE
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SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 7/29/16		
TITLE: DETAIL SHEETS		
BLEACHER MODEL #: 335bl620-5-DLX	DRAWING NUMBER: DS.1	