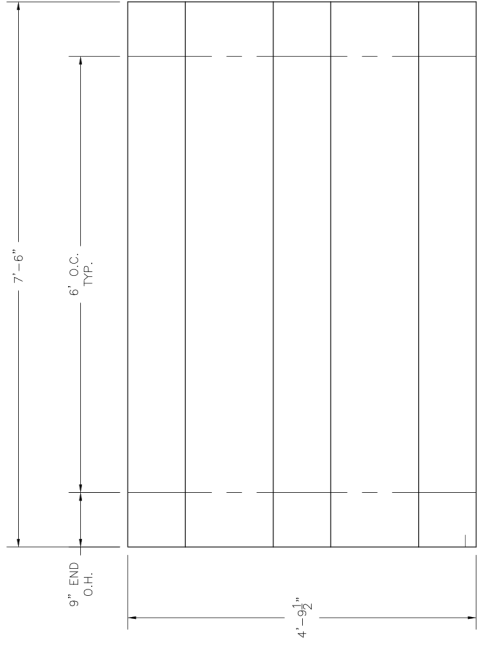


NB-0307.5GSTD

NON-ELEV. 3 ROW X 7.6 GALVANIZED BLEACHER

CS:1	COVER SHEET
UD:1	BLEACHER SEATING PLAN
PD:1	POSITION PLAN
AP:1	ANCHORING PLAN
AP:2	ANCHORING PLAN
BA:1	BLEACHER ASSEMBLY
PF:1	PLANK & FRAMING PLAN
BR:1	BRACING PLAN



SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
7.5	5.00	5.00	3	15
NET SEATS				15
WHEELCHAIR SPACES				0
TOTAL NET SEATING CAPACITY				15
(BASED ON 18" PER SEAT)				

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SCALE: N.T.S.

DATE: 8/8/16

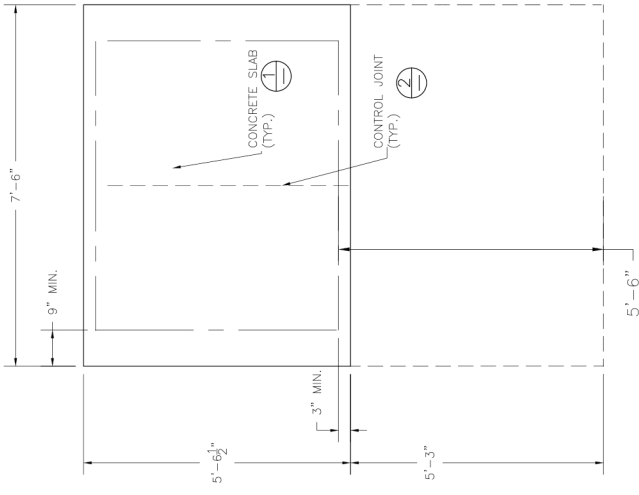
APPROVED BY:

DRAWN BY: HG

TITLE: 3 ROW X 7'-6" GAL. BLEACHER SEATING PLAN

BLEACHER MODEL #: NB-0307.5GSTD

DRAWING NUMBER: TD.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:

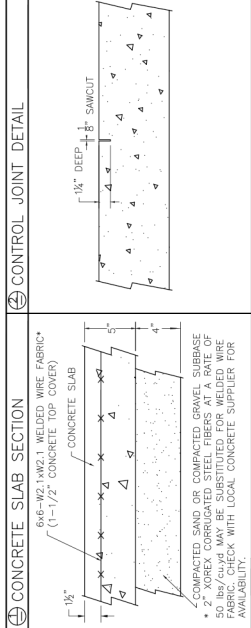
- 1) The foundation designs are based on the following:
 - a. Minimum presumed soil bearing: 1000 psf.
 - b. Bleacher frame dead and live load: 700 lbs./ft.
- 2) Unless otherwise noted on the drawings the bleacher frames shall be attached to the concrete with 3/8" dia. x 3" wedge type expansion anchors.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

CONCRETE SPECIFICATIONS:

- 1) All concrete shall be placed in accordance with ACI 318.08.
- 2) All concrete shall have a minimum 28-day strength of $f'_{c} = 3000$ psi.
- 3) A 1/4" bituminous expansion joint material shall be placed between strip and slab foundations when adjacent to each other.
- 4) The depressions in the top of the foundations between high spots shall not exceed 5/16" below a 10-foot long straightedge method used to measure foundation finishes shall be in accordance with Section 01300.18.04 "Grade for Concrete Floor and Slab Construction".

CONCRETE SLAB SPECIFICATIONS:

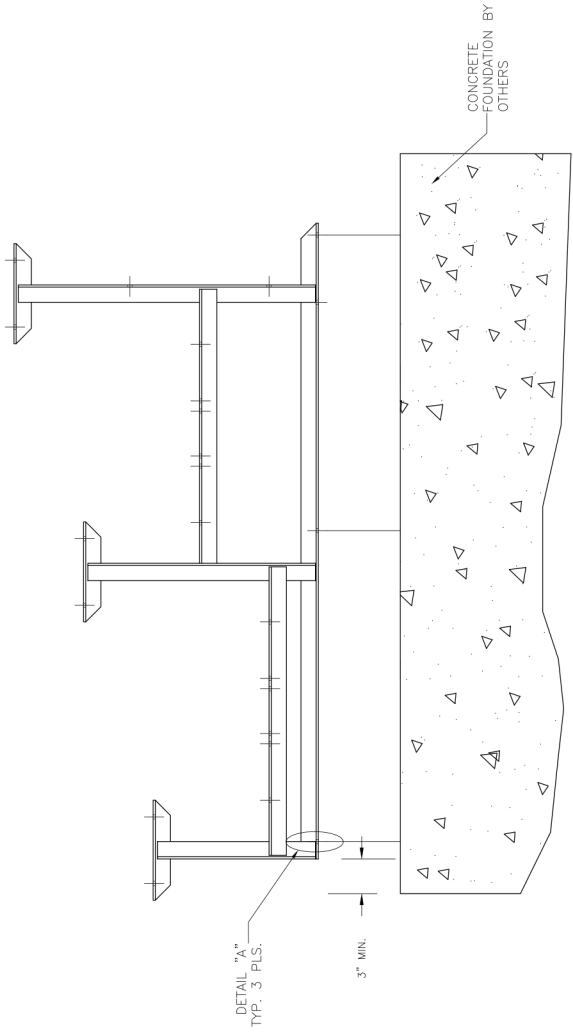
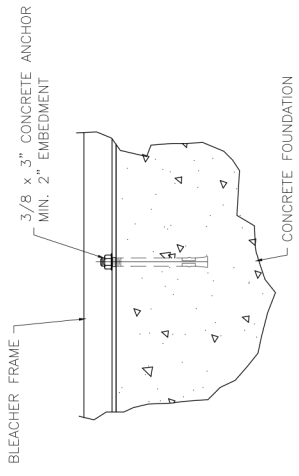
- 1) Concrete slab shall have a minimum thickness of 5" (NRS, Inc. recommends, and some areas may require 6" thickness) and placed on 4" of compacted gravel or compacted sand sub-base.
- 2) Reinforcement shall be 6x6-W21 welded wire fabric at 12" concrete cover from the top in lieu of welded wire fabric; 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.
- 3) 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.
- 4) 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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SCALE: N.T.S.	APPROVED BY:	DRAWN BY: HG
DATE: 8/8/16		
TITLE: 3 ROW X 7'-6" GAL. FOUNDATION PLAN		
BLEACHER MODEL #: NB-0307.5GSTD		DRAWING NUMBER:

DETAIL "A" - CONC. ANCHOR ATTACHMENT

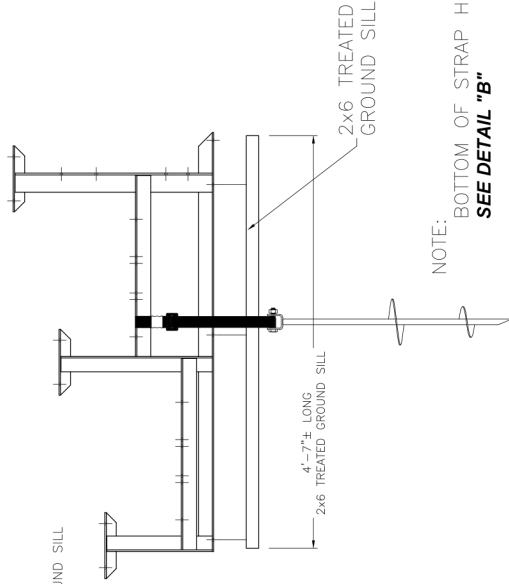
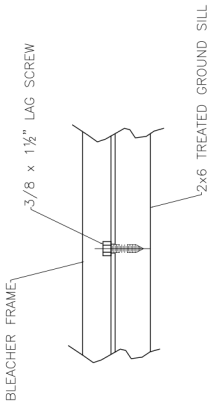
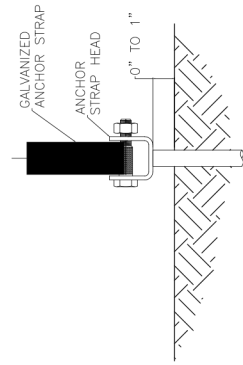


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SCALE: N.T.S.	APPROVED BY:	DRAWN BY: HG
DATE: 8/8/16		
TITLE: ANCHORING PLAN		
BLEACHER MODEL #: NB-0307.5GSTD		
DRAWING NUMBER: AP.1		

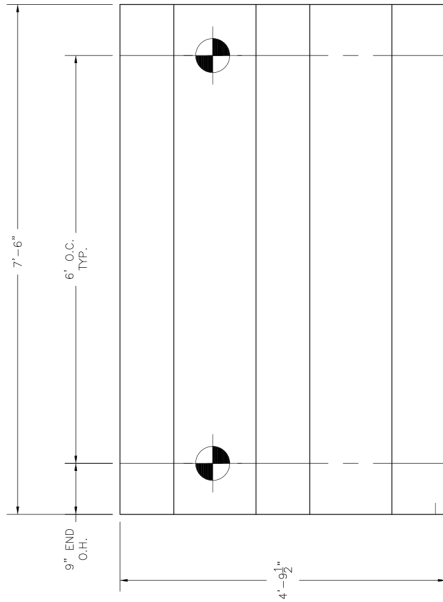
DETAIL "A" - GROUND SILL ATTACHMENT

DETAIL "B" - STRAP HEAD DETAIL



NOTE: BOTTOM OF STRAP HEAD TO BE SET AT GROUND LEVEL.
SEE DETAIL "B"

MINUTE MAN SOIL ANCHOR MARK MMA-52, MODEL 4636-DH 3/4, 4" & 6" DISKS, 36" LENGTH
TYPICAL ATTACHED TO BLEACHER FRAMES BY MINUTE MAN BUCKLE STRAP AND ATTACHED FROM STRAP TO ANCHOR HEAD BY MINUTE MAN STRAP BOLT. ANCHORS SHALL BE FIELD INSTALLED AS PER DRAWINGS STARTING WITH ALL OUTSIDE FRAMES AND ALTERNATE FRAME LINES. THE ANCHOR IS DESIGNED FOR SOILS OF "LOOSE TO MEDIUM DENSE SANDS; FIRM TO STIFF CLAYS AND SILTS; ALLUVIAL FILLS" WITH A BLOW COUNT (ASTMD1586) OF 18-23.



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**AUGER ANCHOR LOCATIONS
FOR 3 ROW 7.4'**
NON ELEVATED BLEACHER SYSTEM

SCALE: N.T.S.

APPROVED BY:

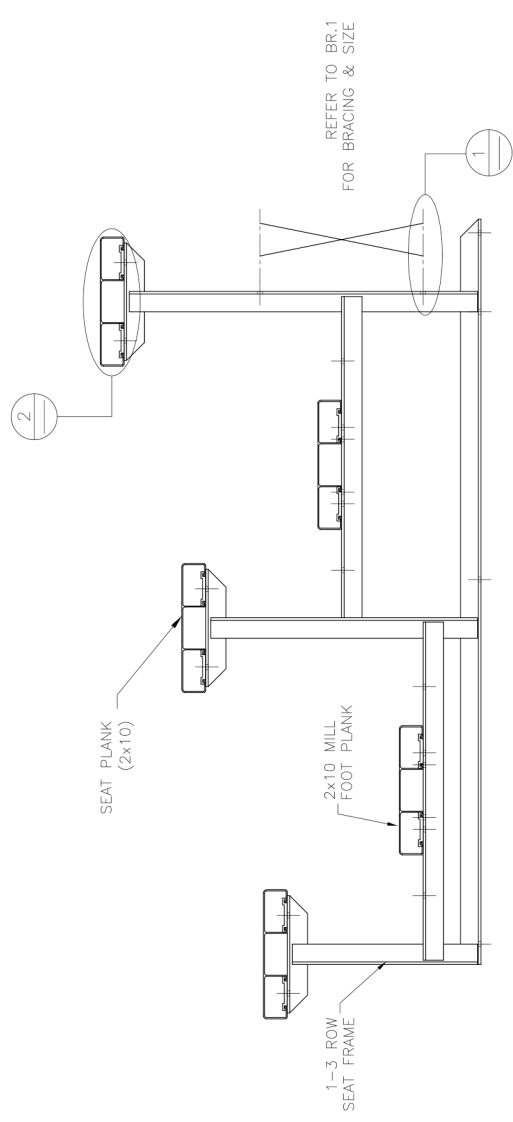
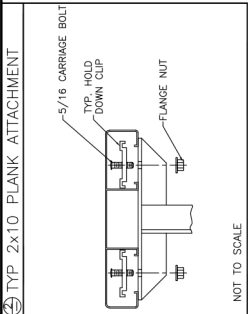
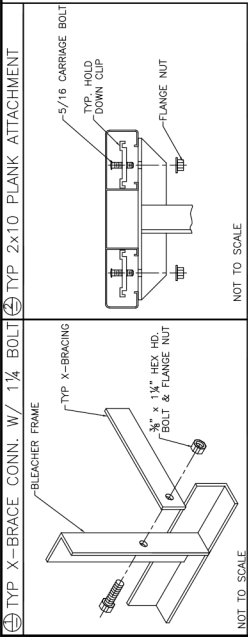
DATE: 8/8/16

TITLE: ANCHORING PLAN

DRAWN BY: HG

BLEACHER MODEL #: NB-0307.5GSTD

DRAWING NUMBER: AP.2



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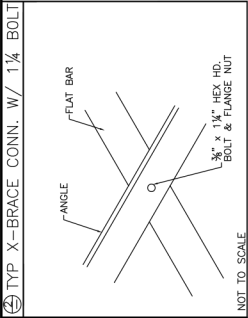
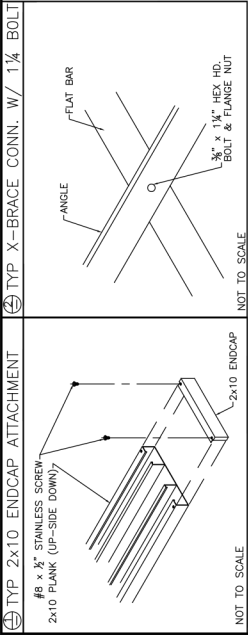
SCALE: N.T.S. APPROVED BY: _____ DRAWN BY: HG

DATE: 8/8/16

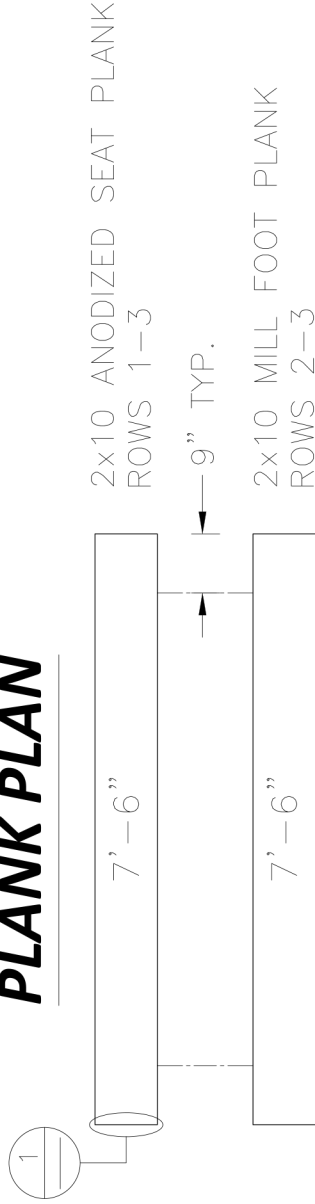
TITLE: BLEACHER ASSEMBLY

BLEACHER MODEL #: NB-0307.5GSTD

DRAWING NUMBER: BA.1



PLANK PLAN



FRAMING PLAN

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SCALE: N.T.S.

APPROVED BY: HG

DATE: 8/8/16

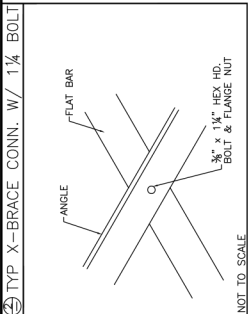
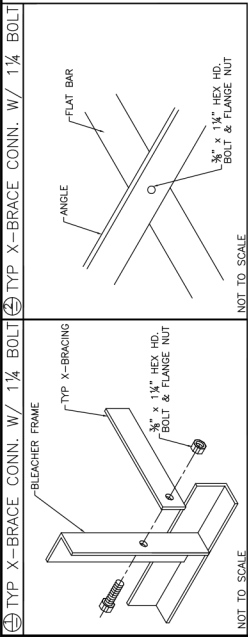
DRAWN BY: HG

TITLE: 3 ROW X 7'-6" GAL. PLANK & FRAMING PLAN

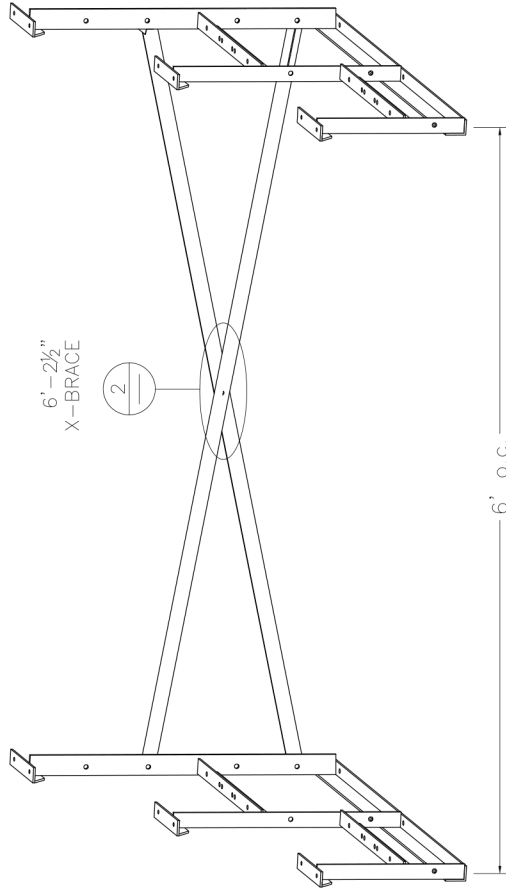
BLEACHER MODEL #: NB-0307.5GSTD

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 3/4" X 1 1/4" HEX HEAD BOLT AND FLANGE NUT THRU THE CENTER HOLE. (SEE DETAIL 2)



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SCALE: N.T.S.	APPROVED BY:	DRAWN BY: HG
DATE: 8/8/16		
TITLE: BRACING PLAN		
BLEACHER MODEL #: NB-0307.5GSTD		
DRAWING NUMBER: BR-1		