MATERIAL
FINISHES

SEAT PLANK ANODIZED

FOOT PLANK MILL FINISH

TA-0324PRF

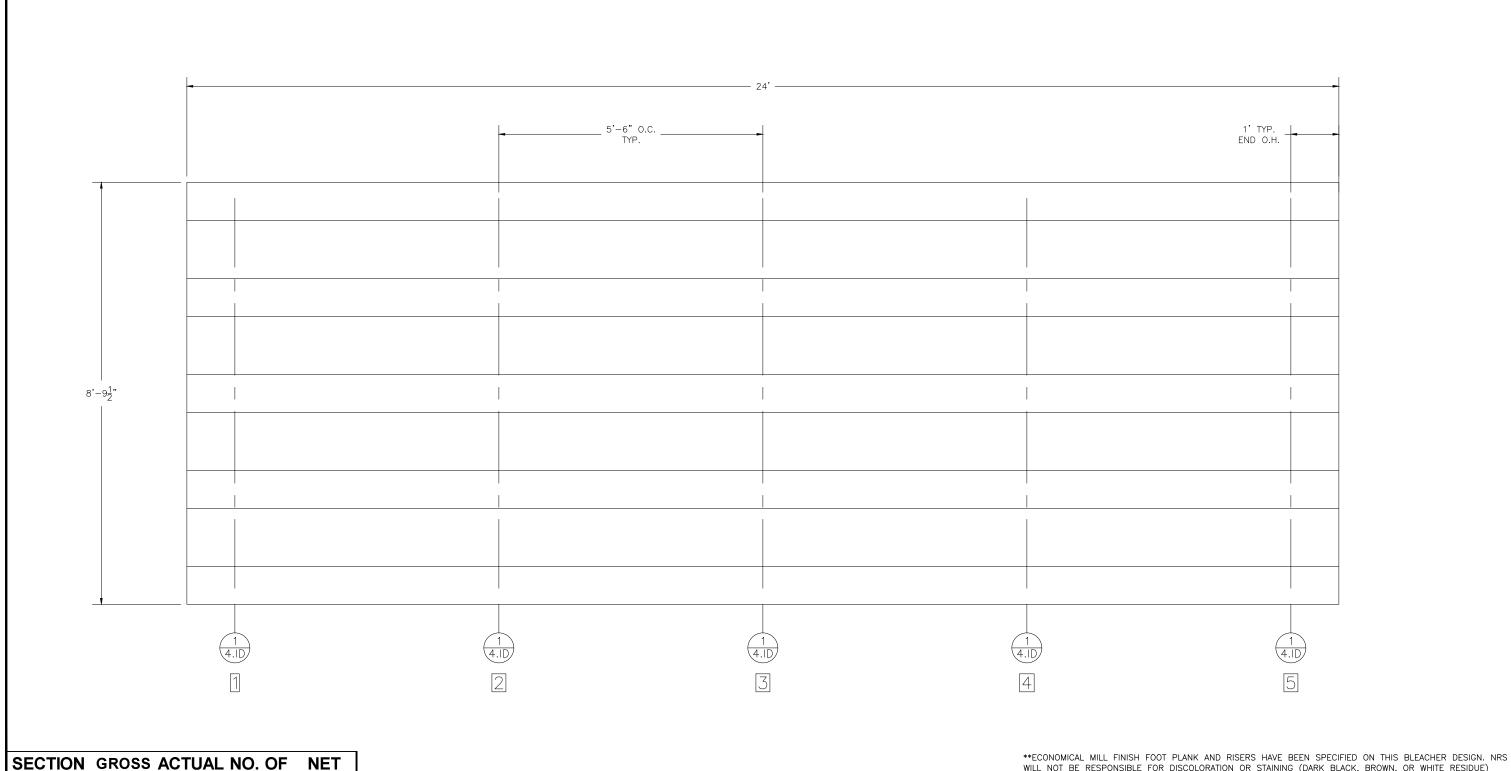
NON-ELEV. ALUM 3 ROW x 24'-0" TIERED BLEACHER

		DRAWING REFERENCE NUMBER: TA-0324PRF								
D	DRAWING SHEET INDEX									
1.CS COVER SHEET										
2.TD SEATING PLAN										
FOUNDATION PLAN 4.ID FRAME IDENTIFICATION										
							5.B	A	BLEACHER ASSEMBLY PREP	
6.B	Α	BLEACHER ASSEMBLY - BRACING								
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8.A	Р	ANCHORING PLAN								
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10.0	S	TYPICAL BLEACHER ASSEMBLY DETAILS								

RECOMMENDED TOOLS							
SOCKET WRENCH	POP RIVET GUN	CORDLESS DRILL					
½" DEEP WELL SOCKET	LEVEL	¾6" DRILL BIT					
%6" DEEP WELL SOCKET	RUBBER MALLET	⅓6" DRILL BIT					
TAPE MEASURE	GLOVES	SAFFTY GLASSES					



n IS,	MODEL:	TA-03	324PRF					
se	DESCRIPTION:	NON-	-ELEV. 3	ROW :	× 24'-0"	ASSEMBLY	COVER SI	HEET
	DRAWN BY:	THL	DATE: 10/	16/23	REVISION: ()	SCALE: N.T.S.	SHEET NUMBER:	1.CS



 LENGTH
 SEATS
 SEATS
 ROWS
 SEATS

 24
 16.00
 16.00
 5
 80

 NET SEATS
 80

 WHEELCHAIR SPACES
 0

 TOTAL NET SEATING CAPACITY
 80

 (BASED ON 18" PER SEAT)

National Recreation Systems

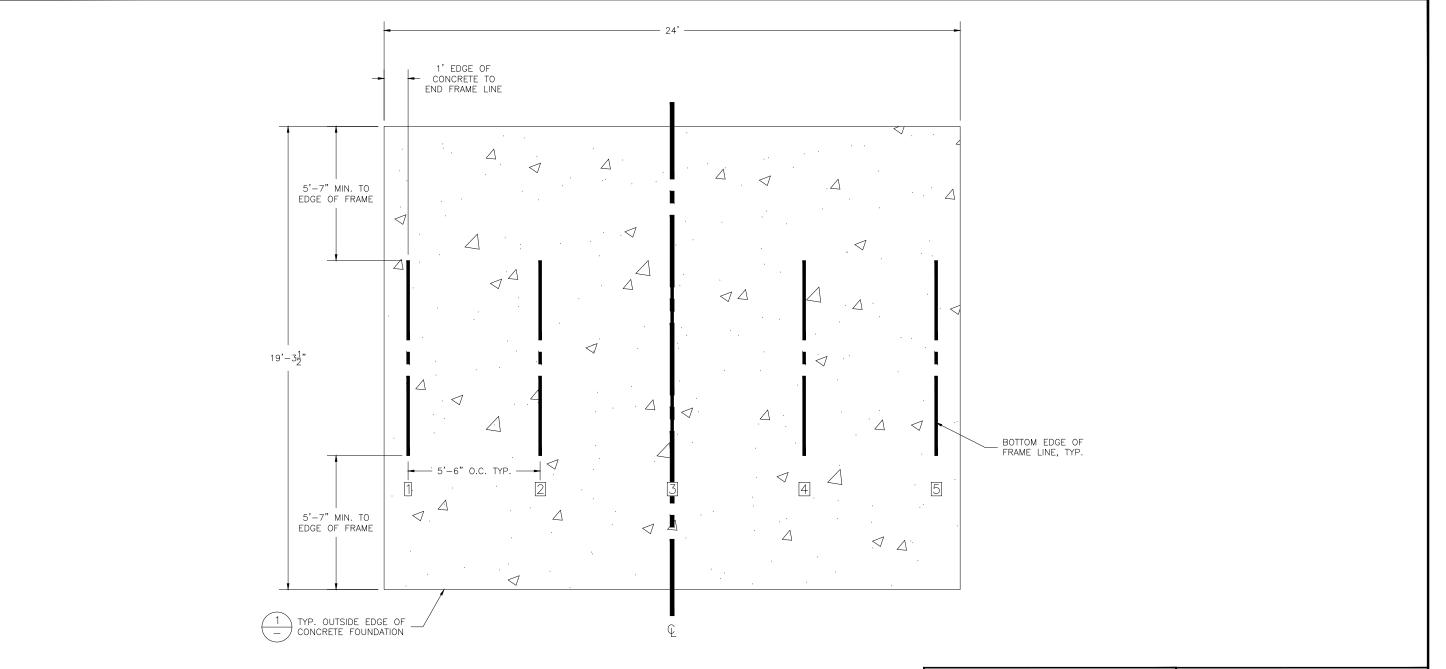
A PLYCORE company

PH: 888-568-9064 FAX: 260-482-7449 WWW.BLEACHERS.NET

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***ELUNOMICAL MILL FINISH FOUL PLANK AND RISERS HAVE BEEN SPECIFIED ON THIS BLEACHER DESIGN. NRS WILL NOT BE RESPONSIBLE FOR DISCOLORATION OR STAINING (DARK BLACK, BROWN, OR WHITE RESIDUE) RESULTING FROM UNAVOIDABLE CONDENSATION THAT OCCURS DURING PACKING, TRANSPORTING AND STORAGE, PRECEDING AND/OR DURING INSTALLATION. REMOVAL OF THESE STAINS OR REPLACEMENT OF BOARDS UPON COMPLETION OF INSTALLATION IS NOT PART OF THIS CONTRACT BECAUSE STAINED MILL FINISH BOARDS MEET ALL SPECIFIED REQUIREMENTS. A CLEAR ANODIZED FINISH MAY BE QUOTED AT AN ADDITIONAL COST TO AVOID POTENTIAL DISCOLORATION OR STAINING.

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CONCRETE FOUNDATION SPECIFICATIONS

SCOPE:

Foundation construction is not part of NATIONAL RECREATION SYSTEMS, INC's., scope of work unless noted otherwise in the contract documents. The OWNER shall review the foundation design with local code authorities and coordinate with NRS, Inc.

FOUNDATION DESIGN & ANCHORS:

- 1) The foundation designs are based on the following:
 - a) Minimum presumed soil bearing of 2000 psf.
 - b) Bleacher frame dead and live load of 700 lbs./ft.
 - c) Bleacher frame wind uplift of 250 lbs./ft.
- 2) Unless otherwise specified on the drawings the bleacher frames shall be attached to concrete with a ½" dia. x 3¾" wedge type expansion anchor. The anchors shall be embedded a minimum of 2½" into the concrete. All anchors are to be HILTI Kwik Bolt TZ2 or approved equivalent.

CONCRETE SPECIFICATIONS:

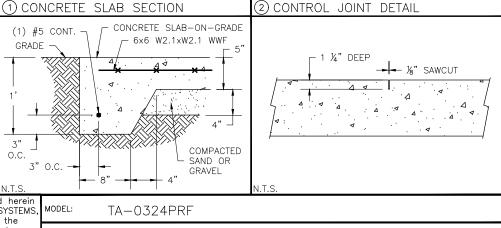
- 1) All concrete construction shall be in accordance with ACI 318.14.
- 2) All concrete shall be air-entrained using an air entraining admixtruing meeting ASTM C620. Total air content: 5%-7% per ASTM C173.
- 3) All concrete shall have a minimum 28-day strength of Fc=3000psi. Concrete shall have air-entrainment
- 4) A $\frac{1}{4}$ " bituminous expansion joint material shall be placed between strip and slab foundations when adjacent to each other.
- 5) The depressions in the top of the foundations between high spots shall not exceed \(\frac{7}{6} \) below 10-foot long straightedge. The 10-foot straightedge method used to measure foundation flatness shall be in accordance with \(\textit{ACI 302.1R-04 "Guide for Concrete Floor and Slab Construction"} \).

CONCRETE SLAB RECOMMENDED SPECIFICATIONS:

- 1) Concrete slab shall have a minimum thickness of 5" (some areas may require 6") and placed on 4" of compacted gravel or compacted sub base.
- 2) NRS. INC., recommends that the concrete slab be reinforced with 6x6-W2.1xW2.1 welded wire fabric at 1½" concrete cover from the top. In lieu of welded wire fabric, steel fiber substitution requires OWNER approval and his understanding of potential maintenance issues.
- Contractor may substitute blended fiber reinforcing, provided the blend consists of multifilament polypropylene fibers and cold drawn steel wire fibers. Novamesh 950 or approved equivalent, applied at a dosage rate of 5lb/CY unless specified otherwise or a different recommendation is made by the manufacturer.
 Crack control joints shall be sawed into slab to form approximate square patterns. The maximum spacing for control
- 4) Crack control joints shall be sawed into slab to form approximate square patterns. The maximum spacing for control joints shall not exceed 13'-6", UNLESS INDICATED OTHERWISE. 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.
- 5) 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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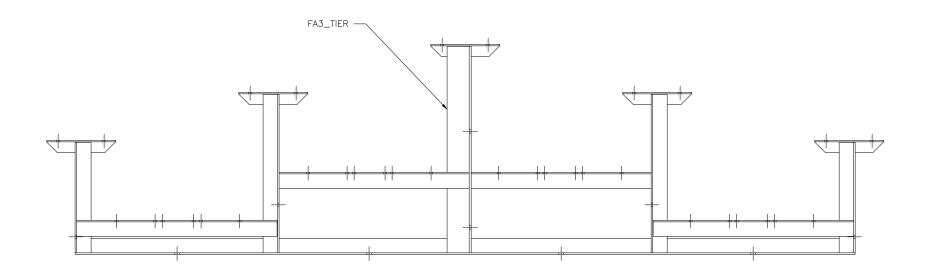


DESCRIPTION: NON-ELEV. 3 ROW x 24'-0" FOUNDATION PLAN

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DATE: 10/16/23 REVISION: 0 SCALE: N.T.S. SHEET NUMBER: 3.FP





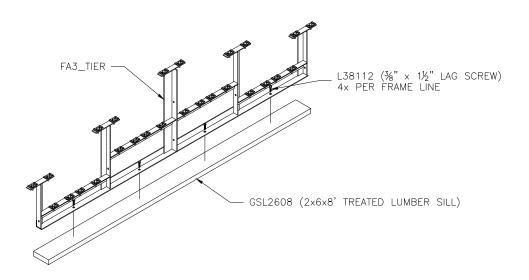


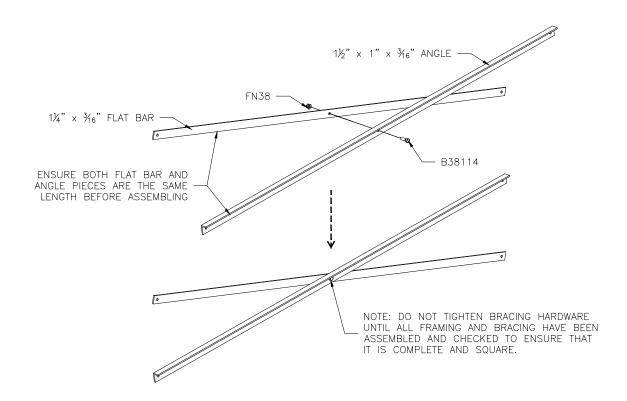
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PRE-ASSEMBLE X-BRACE PAIR(S)

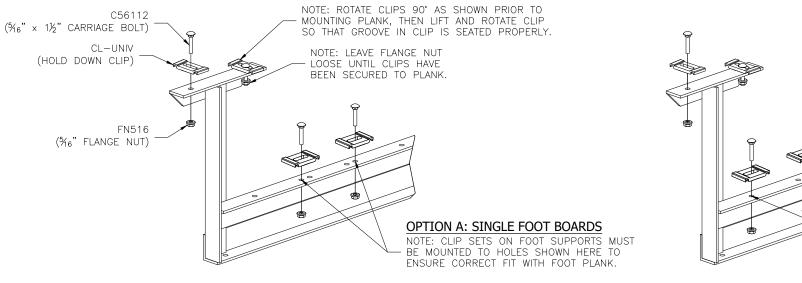
(OPTIONAL) ATTACH GROUND SILLS *

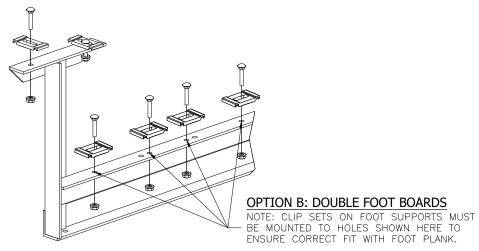
*NOT ALL BLEACHERS WILL RECEIVE GROUND SILLS. IF YOUR UNIT DOES NOT INCLUDE THIS FEATURE, SKIP THIS STEP.





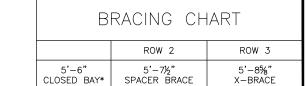
ONCE FRAMING IS COMPLETE, PRE-ASSEMBLE CLIP SETS ON BLEACHER FRAMES

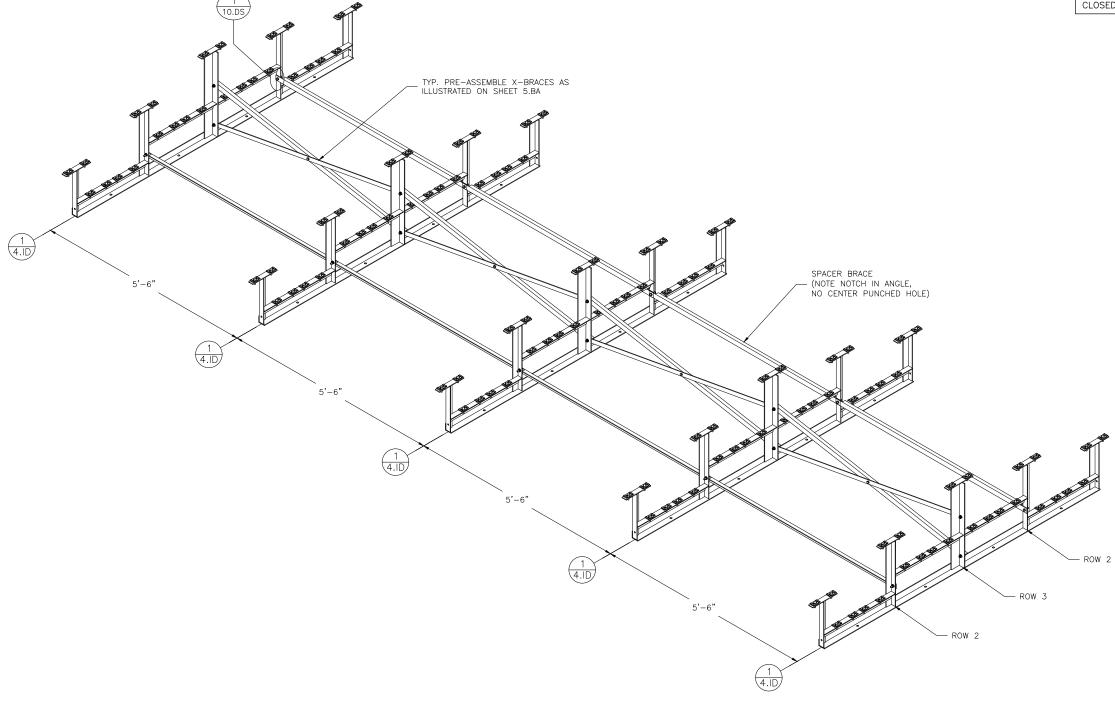






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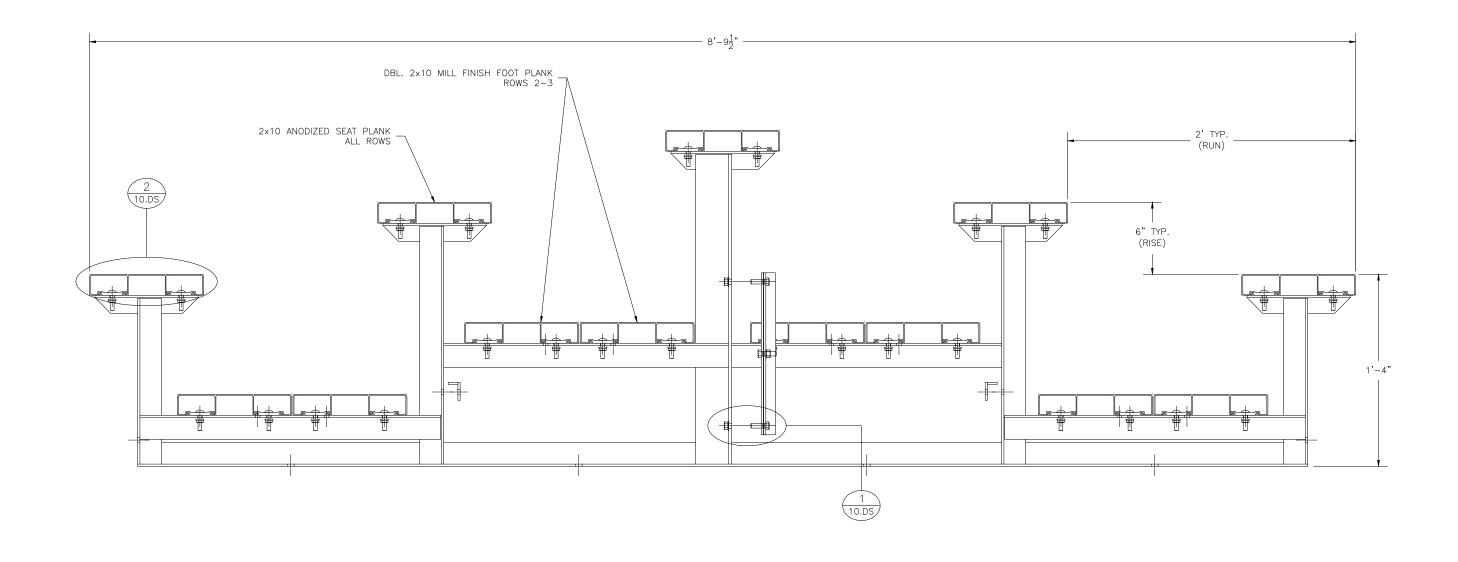






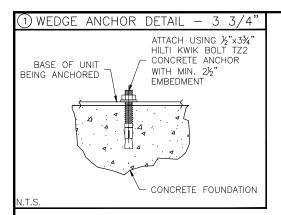
PH: 888-568-9064 FAX: 260-482-7449 WWW.BLEACHERS.NET

rein EMS,	MODEL:	TA-0	324P	RF					
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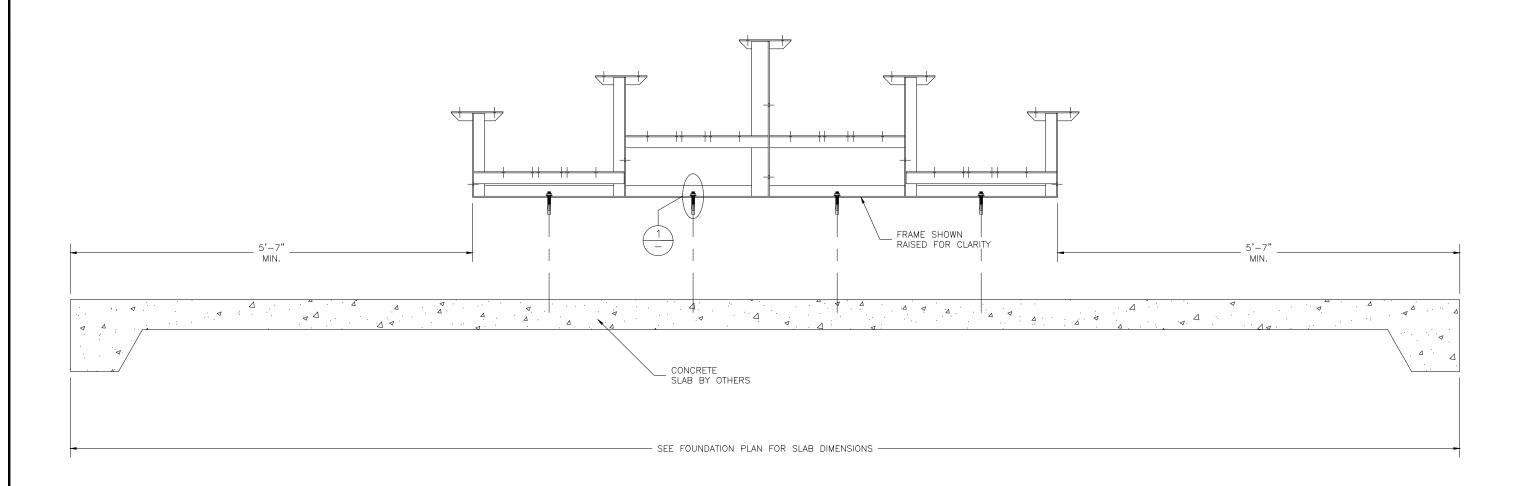




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,	DRAWN BY: T	-HL	DATE: 1	0/1	6/23	REVISION: ()	SCALE: N.T.S.	SHEET NUMBER:	7.BA



(OPTIONAL) ANCHOR BLEACHER TO CONCRETE FOUNDATION *

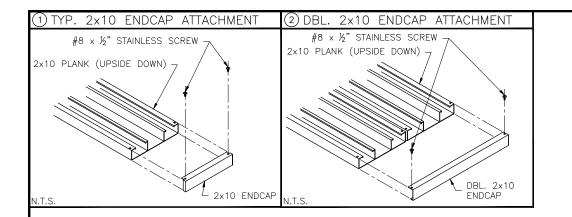




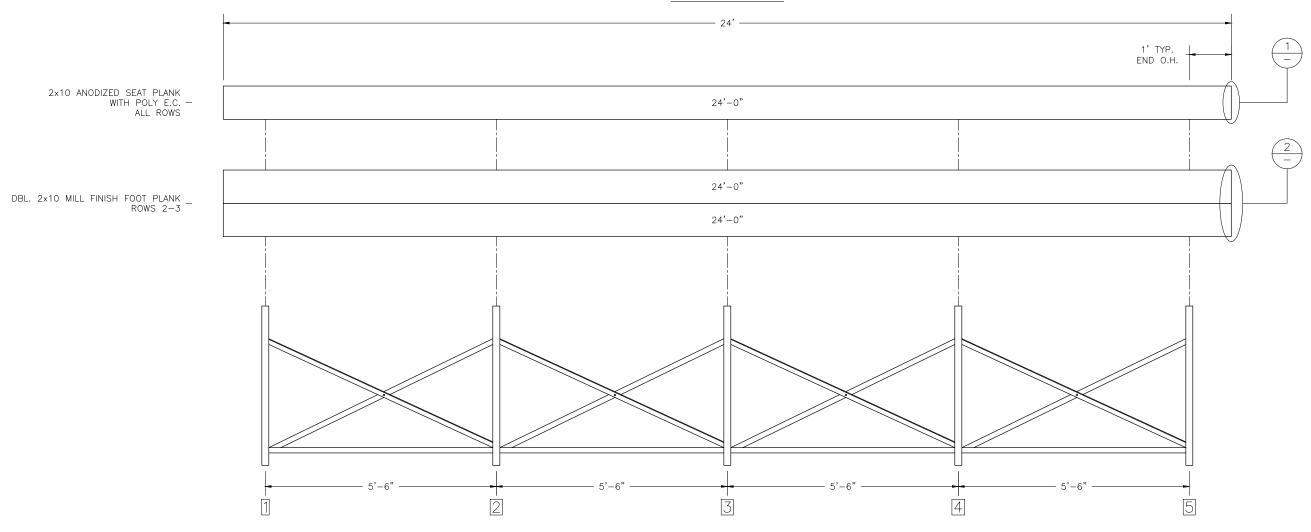
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PLANK PLAN

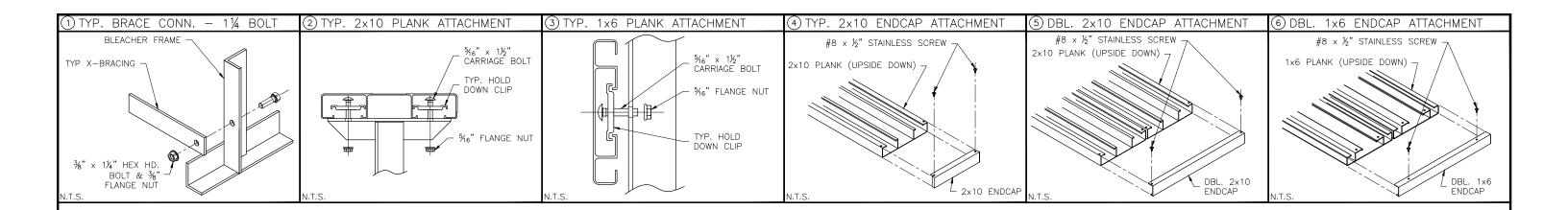


FRAMING PLAN

**ECONOMICAL MILL FINISH FOOT PLANK AND RISERS HAVE BEEN SPECIFIED ON THIS BLEACHER DESIGN. NRS WILL NOT BE RESPONSIBLE FOR DISCOLORATION OR STAINING (DARK BLACK, BROWN, OR WHITE RESIDUE) RESULTING FROM UNAVOIDABLE CONDENSATION THAT OCCURS DURING PACKING, TRANSPORTING AND STORAGE, PRECEDING AND/OR DURING INSTALLATION. REMOVAL OF THESE STAINS OR REPLACEMENT OF BOARDS UPON COMPLETION OF INSTALLATION IS NOT PART OF THIS CONTRACT BECAUSE STAINED MILL FINISH BOARDS MEET ALL SPECIFIED REQUIREMENTS. A CLEAR ANODIZED FINISH MAY BE QUOTED AT AN ADDITIONAL COST TO AVOID POTENTIAL DISCOLORATION OR STAINING.



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9	DESCRIPTION:	TYPIC	AL BLEACHER A	ASSEMBLY	DETAILS		
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