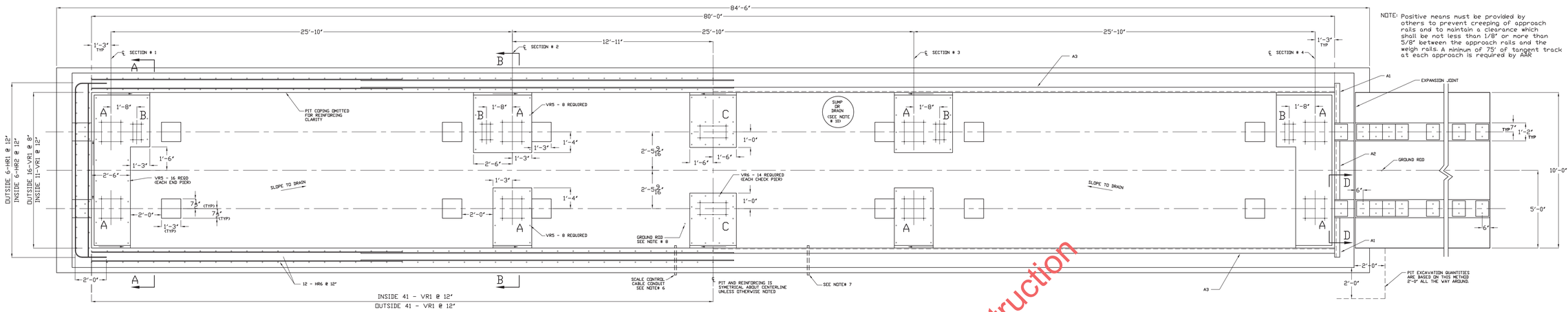
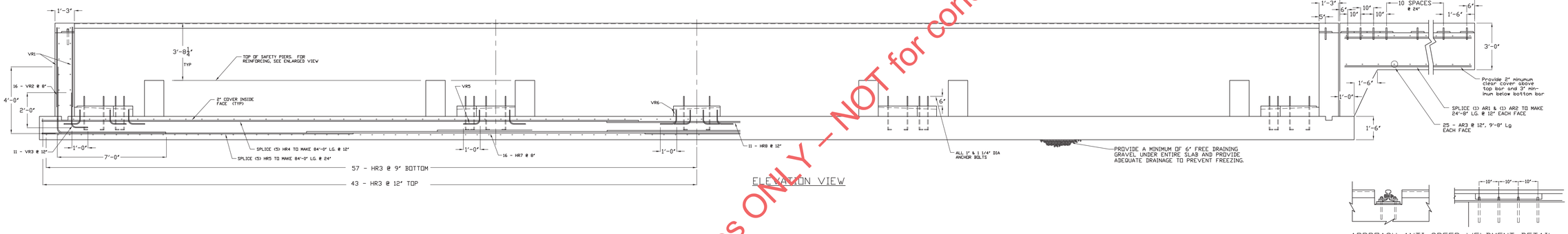
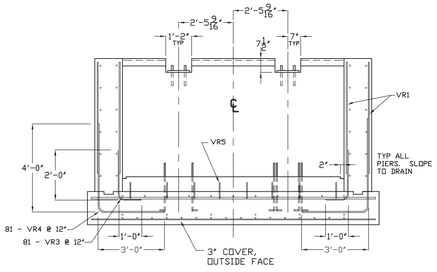


PLAN VIEW

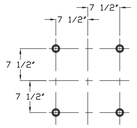
NOTE: Positive means must be provided by others to prevent creeping of approach rails and to maintain a clearance which shall be not less than 1/8" or more than 5/8" between the approach rails and the weigh rails. A minimum of 75' of tangent track at each approach is required by AAR



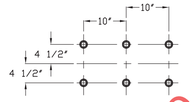
ELEVATION VIEW



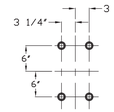
SECTION A-A



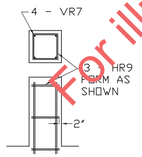
ANCHOR BOLT SETTING GROUP "A"
32 - ANCHOR BOLTS
1" x 21" Lg
w/ 6" THREADS



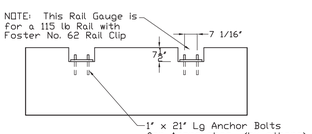
ANCHOR BOLT SETTING GROUP "C"
12 - ANCHOR BOLTS
1 1/4" x 21" Lg
w/ 6" THREADS



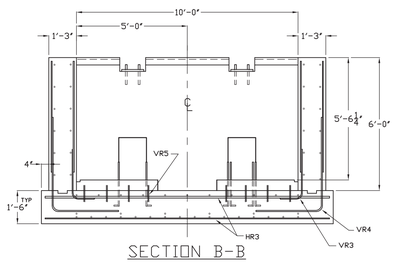
ANCHOR BOLT SETTING GROUP "B"
16 - ANCHOR BOLTS
1 1/4" x 21" Lg
w/ 6" THREADS



SUGGESTED REINFORCING OF SAFETY PIER

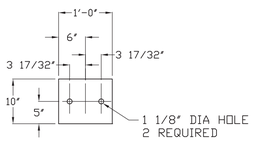


APPROACH END VIEW

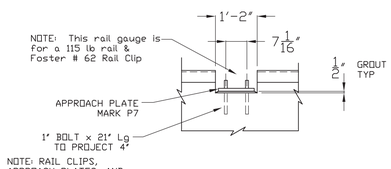


SECTION B-B

NOTE: Dimensions are for a 115 lb Rail & Foster # 62 Rail Clip.



1" x 10" x 12" PLATE
4 REQUIRED, MARK P7
(SUPPLIED BY OTHERS)



NOTE: RAIL CLIPS, APPROACH PLATES, AND APPROACH BOLTS BY OTHERS.

SECTION D-D

APPROACH ANTI-CREEP WELDMENT DETAIL

FOR ADDITIONAL PLACEMENT INFO. REFER TO DWG. #D140279 sheet 1 of 2

NOTE: POSITIVE MEANS MUST BE PROVIDED BY RAIL INSTALLATION CONTRACTOR TO PREVENT CREEPING OF APPROACH RAILS AND MAINTAIN A CLEARANCE WHICH SHALL BE NOT LESS THAN 1/8" OR MORE THAN 5/8" BETWEEN THE APPROACH RAILS AND THE SCALE RAILS.
ANTI-CREEP DEVICES AND HARDWARE TO BE SUPPLIED BY OTHERS.

PIT REINFORCING STEEL SCHEDULE - BY OTHERS					
MARK	REQ'D	SIZE	LENGTH	BENDING	WEIGHT
VR1	382	#4	5'-0"		1,276
VR2	32	#8	11'-0"		940
VR3	187	#4	3'-0"	2'-0" 12"	375
VR4	164	#6	7'-0"	3'-0" 4'-0"	1,724
VR5	64	#6	1'-10"	10" 12"	176
VR6	28	#8	1'-10"	10" 12"	137
VR7	48	#5	3'-3"		163
HR1	12	#4	15'-0"	2'-0" 11'-0" 2'-0"	120
HR2	12	#4	11'-0"		88
HR3	196	#6	12'-4"		3,631
HR4	60	#5	20'-0"		1,253
HR5	30	#6	20'-0"		901
HR6	120	#4	20'-0"		1,603
HR7	32	#8	6'-0"		513
HR8	11	#5	8'-0"		92
HR9	36	#4	4'-8"	SEE SAFETY PIER REINFORCING	112
APPROACHES					
AR1	40	#6	20'-0"		1202
AR2	40	#6	7'-2"		431
AR3	100	#6	9'-8"		1452
				TOTAL	16,186

FOUNDATION	
DESCRIPTION	QUANTITY
EST. EXCAVATION FOR PIT	450 CU. YD.
EST. CONCRETE FOR PIT	117 CU. YD.
EST. CONCRETE FOR APPROACH	57 CU. YD.

PIER LOADING		
LOCATION	DIRECTION	LOAD
GROUP "A" (LOAD CELL)	VERTICAL	190,000 LBS.
GROUP "B" (CHECKING)	LATERAL	20,000 LBS.
GROUP "C" (CHECKING)	LONGITUDINAL	36,000 LBS.

GENERAL NOTES

1. All concrete shall have a minumun compressive strength of 3000 PSI at 28 days.
2. Reinforced pit as indicated is designed for a minumum soil bearing capacity of 4000 P.S.F. as specified by AAR. CareFul soil exploration, including borings, is always desirable, reference Paragraph 2.22.19, AAR scale hand book specifications (Applies if the scale must meet AAR requirements).
3. The pit contractor or customer may elect to revise the reinforcing to suit local requirements.
4. Sufficient drainage shall be provide by others to prevent moisture accumulations in the pit.
5. Work from centerlines when erecting forms and setting anchor bolts. Top of the piers must be smooth, level, and true to plane. Pour piers monolithic with walls.
6. For cable entrance into the pit, 2" steel conduit shall be provided through the pit wall at a minimum of 12" above the pit floor.
7. If A.C. power is required in the pit, it shall not run closer than 24" in parallel to any cell cable. A 1" conduit shall be provided through the pit wall for such entrance.
8. For ground rod, see Fairbanks Manual 50584
9. Fairbanks Scales cannot be responsible for the solidity of the pit, foundation, or footing. The responsibility for the pit is assumed by the pit builder or as contracted.
10. The pit floor shall be pitched to a common point for drainage and shall be smooth and free of pockets in which water may stand. If the pit floor is below subsurface water level, the pit shall be drained from its lowest point into a sump adequately equipped with automatic means for removal of water as it collects.

    Some states have special requirments for construction details. Owner or contractor should consult with local Weights and Measures officals prior to begining construction.

LET	BY	DATE	REVISION
			MADE FROM D140279-72, 2 OF 2
A	RG	06/04/07	ADDED ANCHOR BOLT DETAILS

FAIRBANKS SCALES
Meridian, Mississippi

name: FULL ELECTRONIC COMBINATION RRT/MTS FOUNDATION DRAWING 80'-0" x 10'-0" 6" CONCRETE DECK 180 TONS PER SECT. 4 - SECTION 360 TONS GROSS CAPACITY AAR

date: 9/20/05 material: 6'-0" DEEP PIT

scale: N/A in. per ft. sheet: Two of Two

drawn by: CB

checked by:

approved by:

MODEL E-12-1496

D99179-72

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Unless otherwise specified: dimensions are in inches. Tolerances: Fractions: ±1/8" Angles: 1° 3 place decimals: 2 place decimals: Hole diameter: ±1/32"

MATERIAL FINISH

For illustrative purposes ONLY - NOT for construction