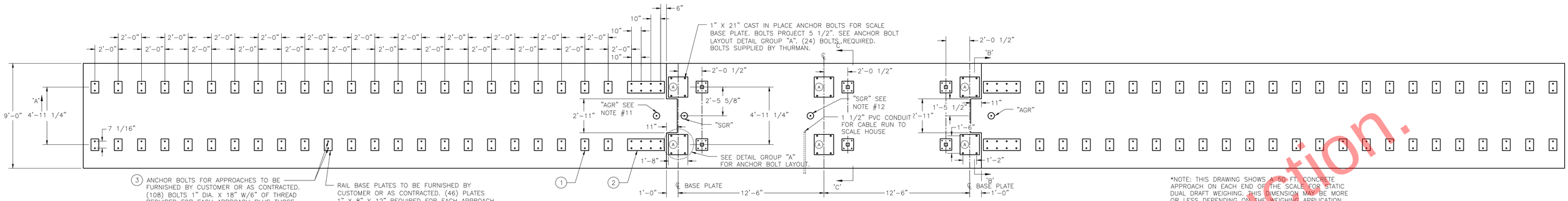
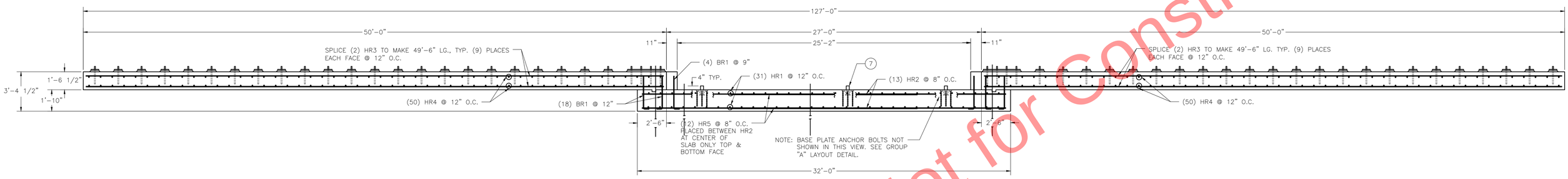
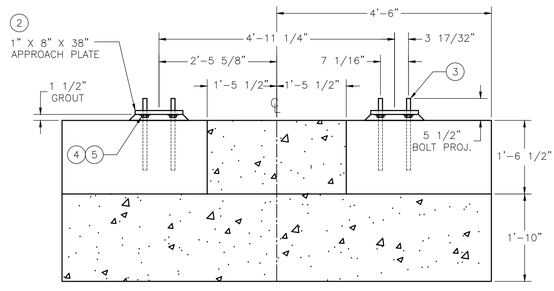


PLAN VIEW

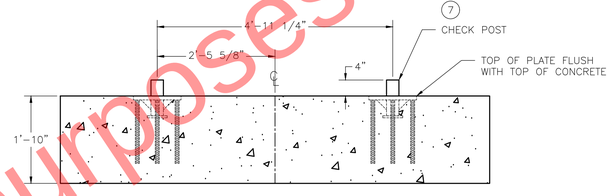
*NOTE: THIS DRAWING SHOWS A 50 FT. CONCRETE APPROACH ON EACH END OF THE SCALE FOR STATIC DUAL DRAFT WEIGHING. THIS DIMENSION MAY BE MORE OR LESS DEPENDING ON THE WEIGHING APPLICATION, IE, 25 FT. FOR SINGLE DRAFT WEIGHING OR 75 FT. FOR IN MOTION DUAL DRAFT WEIGHING. REFER TO AAR SCALE HANDBOOK SECTION 2.22.6



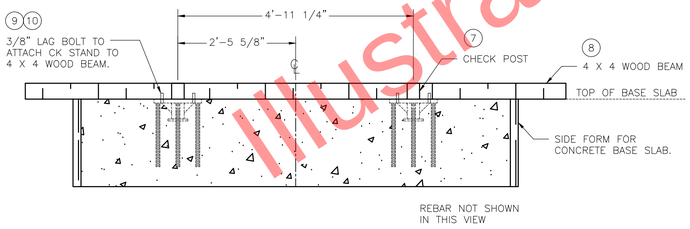
ELEVATION SECTION A–A



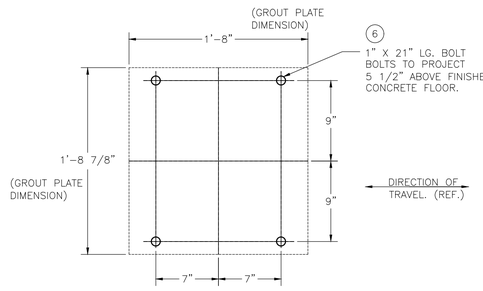
VIEW B–B



VIEW C–C



FORMING DETAILS FOR CHECK STANDS AT VIEW C–C (TYPICAL)



ANCHOR BOLT LAYOUT DETAIL (GROUP "A") FOR SCALE BASE PLATES

FOUNDATION CONCRETE 4000 PSI MINIMUM	
LOCATION	QTY (CU. YDS)
SCALE BASE SLAB	20
APPROACH SLABS	52
TOTAL CONCRETE	72

FOUNDATION REINFORCING SCHEDULE ASTM 615 – GRADE 60					
MARK	QTY	SIZE	LENGTH	BENDING	WEIGHT (LBS)
HR1	62	#6	8'-8"	8'-8"	807
HR2	26	#6	31'-2"	31'-2"	1217
HR3	72	#5	27'-0"	27'-0"	2028
HR4	200	#5	8'-8"	8'-8"	1808
HR5	24	#6	16'-0"	16'-0"	577
BR1	44	#6	3'-3"	6'2'-9"	215
				TOTAL WEIGHT	6652

REINFORCING BAR SCHEDULE NOTES:

*INDICATES THAT REBAR MAY BE SPLICED TO MAKE LONG LENGTHS BY USING 4'–0" SPLICE JOINT.

PARTS LIST – FOUNDATION KIT W/ TWO (2) 50' APPROACHES			
ITEM	QTY	PART NO.	DESCRIPTION
1	92	171898	RAIL PLATE, 2–HOLE, 115# RAIL, 1"X8"X12"
2	4	171899	RAIL PLATE, 8–HOLE, 115# RAIL, 1"X38"X12"
3	216	64215	ANCHOR BOLT, 1"–8X18" W/NUT
4	216	54249	1" FLAT WASHER
5	216	54887	1"–8 JAM NUT
6	24	60944	ANCHOR BOLT, 1"–8X21" W/NUT
7	6	171860	CHECK POST WELDMENT
8	6	74022	#4 SHORING TIMBER, 4X4 – 12'
9	24	74015	3/8"–16 X 2 1/2" LAG BOLT
10	24	54205	3/8" FLAT WASHER

GENERAL NOTES:

1. THIS DRAWING IS INTENDED TO SHOW FOUNDATION CONSTRUCTION DETAILS FOR FAIRBANKS MODEL 2000 RAILROAD TRACK SCALE. REFER TO DRAWING D91647–SP FOR SCALE INSTALLATION DETAILS.
2. THE FOUNDATION DETAILS AS SHOWN ON THIS DRAWING ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 4,000 PSF AS REQUIRED BY AAR.
3. A SOLID ANALYSIS OF THE SITE SHOULD BE PERFORMED TO DETERMINE ACTUAL SOIL BEARING CAPACITY. IF THE SOIL DOES NOT HAVE A BEARING CAPACITY OF AT LEAST 4,000 PSF AND ITS BEARING CAPACITY CAN NOT BE INCREASED BY DRAINAGE OR OTHER MEANS, PILE FOUNDATIONS MAY BE REQUIRED.
4. FOR LOCATIONS WITH SOILS THAT ARE WELL DRAINED, THE EXCAVATION SHALL BE TO THE SAME PLANE AS THE BOTTOM OF THE BASE SLAB. IN LOCATION WITH SOIL OF LOW PERMEABILITY AND POOR DRAINAGE, OVER–ECAVATION AND BACKFILLING WITH AN ENGINEERED GRANULAR MATERIAL IS RECOMMENDED. COMPACT TO A MINIMUM OF 95% DENSITY.
5. CONCRETE SHALL BE 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. REINFORCING STEEL TO CONFORM TO ASTM SPEC A–615 FOR GRADE 60.
6. REINFORCING STEEL AND CONCRETE SHOULD BE PLACED ACCORDING TO THE BEST PRACTICE AS PRESCRIBED BY THE LATEST ACI CODE AND A.R.E.M.A. MANUAL CHAPTER 8.
7. AAR REQUIRES 75 FEET OF TANGENT AT EACH END OF THE SCALE. APPROACHES SHOULD BE ON THE SAME PLANE AND ALIGNMENT AS SCALE.
8. THE FINISHED GRADE OF SURROUNDING AREA IS TO BE SLOPED AWAY FROM THE SCALE FOUNDATION TO PROVIDE DRAINAGE AWAY FROM THE SCALE FOUNDATION.
9. THE FOUNDATION DIMENSIONS SHOWN ARE THE MINIMUM TO ACCOMMODATE THE SCALE. LOCAL WEIGHTS AND BUILDING CODE AND MEASUREMENTS REGULATION MAY SPECIFY ADDITIONAL INSTALLATION REQUIREMENTS. IN ORDER TO ENSURE COMPLIANCE, CONSULT THE GOVERNING WEIGHTS AND MEASURES DEPARTMENT PRIOR TO CONSTRUCTION.
10. GROUND ROD LOCATION MARKED "SGR" INDICATE APPROXIMATE LOCATIONS FOR 2 GROUND RODS SUPPLIED BY FAIRBANKS SCALES AS FOUNDATION EMBED ITEMS. THESE GROUND RODS ARE INTENDED TO BE USED AS PART OF THE SCALE GROUNDING KIT.
11. GROUND ROD LOCATION MARKED "AGR" INDICATE APPROXIMATE LOCATIONS FOR 2 GROUND RODS SUPPLIED BY CUSTOMER OR CONTRACTOR. THESE GROUND RODS ARE INTENDED TO BE USED TO GROUND ALL APPROACH RAILS ADJACENT TO SCALE.
12. ONE GROUND ROD SHOULD BE USED TO GROUND THE SCALE PIT POWER SUPPLY. THIS ROD SHOULD BE LOCATED AT THE SCALE SECTION WHERE THE PIT POWER SUPPLY IS MOUNTED. REFER TO FAIRBANKS GROUNDING KIT INSTRUCTION BULLETIN FOR ADDITIONAL INFORMATION.
13. IF ALTERING CURRENT (AC) IS REQUIRED IN PIT, IT SHALL NOT RUN CLOSER THAN 24" IN PARALLEL TO ANY CELL CABLE.

THIS DRAWING IS SUPPLIED AS CHECKED BELOW:

☒ REFERENCE (ESTIMATES ONLY, NOT FOR CONSTRUCTION)
☐ CERTIFIED FOR CONSTRUCTION, THURMAN SERIAL#
CUSTOMER:
CUSTOMER P.O.# DATE:
☐ CUSTOMER APPROVAL, RETURN ONE COPY.
(ORDER ON HOLD UNTIL SIGNED COPY IS RETURNED)
☐ APPROVED AS DRAWN, APPROVED BY: DATE:
☐ APPROVED AS NOTED, APPROVED BY: DATE:

THE INFORMATION CONTAINED HEREIN AND IN ANY ACCOMPANYING DOCUMENTS IS THE PRIVILEGED AND CONFIDENTIAL PROPERTY OF THURMAN SCALE. IT IS LOANED FOR EXCLUSIVE USE, TRANSFER, OR REPRODUCTION WITHOUT WRITTEN PERMISSION. THURMAN SCALE ASSUMES NO RESPONSIBILITY. ALTERATIONS TO THIS DOCUMENT AFTER ORIGINAL TRANSMISSION.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN INCHES, AND TOLERANCES ARE AS FOLLOWS:
FRACTIONS ±1/8"
ANGLES ±1°
2–PLACE DECIMAL ±0.005
2–PLACE DECIMAL ±0.02
HOLE DIAMETERS ±1/32"

THIRD ANGLE

8765 RRT LOW PROFILE
25'–0" DOUBLE
50' APPROACHES
85 T/SECT. 170 T NOMINAL CAP.

THURMAN SCALE
COLUMBUS, OH

SCALE: VARIES | DRAWN: LDC | CHECKED:
SHEET: 1 OF 1 | DATE: 2/21/20 | APPROVED:
DRAWING NUMBER: | REV: –
MODEL:
92749–AG

PRINTED 25 FEBRUARY 2020 – 2:09PM BY LONNY COOPER

Illustrative purposes only. Not for Construction.