Construction Standard Drawings
Computer-Aided Drafting System

QTY.	QTY.		238.8		PARTS/MATERIAL LIST		
		-OA	ASSY	ITEM	PART/DWG. NUMBER	DESCRIPTION	MATERIAL OR SOURCE	WT. EACH
		2	1	0103-B131-0A		COPING ANGLE/BUMPER PLATE ASSEMBLY	11'-0" REF	38.2
		14	2	6007-0050		HEX HEAD BOLT	3/8-16UNC-2A X 1 1/2"	0.06
		14	3	6013-0063		HEX NUT	3/8-16UNC-2B	0.01
		2	4	0103-0128-0A		WASHER	27.5
		2	5	0103-0128-1A		CHECK STAND WELDMENT	27.5
		16	6	6007-0280		HEX HEAD BOLT	3/4-10UNC-2A X 10"	1.4
		16	7	6013-0125		HEX NUT	3/4-10UNC-2B	0.12
		16	8	6024-0055		LOCK WASHER	3/4"	0.12
		16	9	6024-0063		MALLEABLE IRON WASHER	7/8"	0.46
		1	10	3502-B006-66		GROUNDING KIT		15.8

UNLESS OTHERWISE SPECIFIED TOLERANCE ON DIMENSIONS ARE: ANGLES ± 1/2°
DECIMALS (XX) ± .03 IN.
DECIMALS (XXX) ± .01 IN.
DECIMALS (XXXX) ± .005 IN.
NOTE: WHOLE NUMBERS MUST BE WRITTEN XX,000 TO INVOKE DECIMAL TOLERANCES.

Cardinal Sales and Engineering Co.
MESA CITY, WASHINGTON, U.S.A. 98403

TITLE: FOUNDATION PLAN
(60'-1 1/2" X 11'-0"; 100 TON CAPACITY; 30 TON CLC)

CARDINAL DETECTO PULLER WEIGHING SYSTEMS

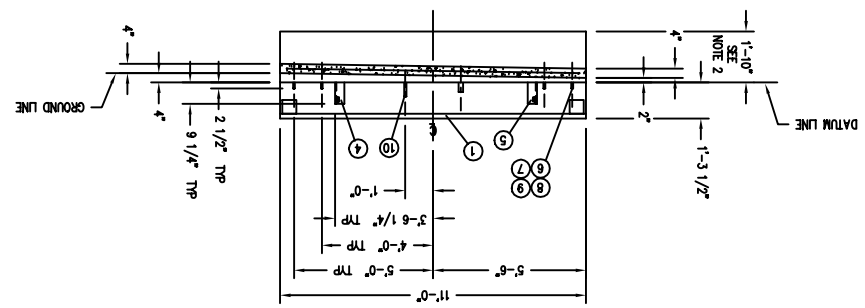
THIS DRAWING IS THE PROPERTY OF THE CARDINAL SCALE MFG. CO. AND SHALL NOT BE USED NOR REPRODUCED EITHER WHOLLY OR IN PART EXCEPT WITH WRITTEN AUTHORIZATION OF CARDINAL. ALL RIGHTS OF DESIGN ON INVENTION ARE RESERVED.

DR. JAT	DATE 7/22/98	SCALE 1" = 30"	DO NOT SCALE DRAWING
CH. MLS	DATE 8/6/98	NEXT ASSEMBLY	0103-D134-0A

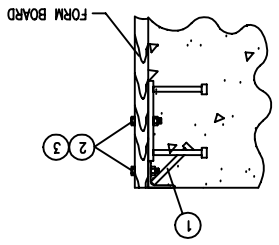
MODEL 10060-EPR | SHEET 1 OF 1 | DWG. NO. *0103-D135-0A* | REV. F

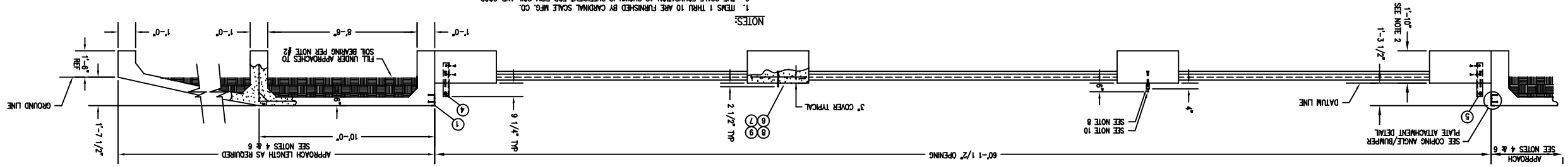
NOTES:
1. ITEMS 1 THRU 10 ARE FURNISHED BY CARDINAL SCALE MFG. CO.
2. THE SCALE FOUNDATION AS SHOWN IS SUFFICIENT FOR FIRM SOIL. GOOD CONCRETE. THE MINIMUM SOIL BEARING SHALL BE 3,000 POUNDS PER SQUARE FOOT AND THE MINIMUM CONCRETE STRENGTH SHALL BE 3,000 POUNDS PER SQUARE INCH, 28 DAY. FOR UNUSUAL SOIL CONDITIONS OR DEEP FROST PENETRATION, ALTER THE FOUNDATION AS REQUIRED. THE FOOTING SHALL BE BELOW THE FROST LINE.
3. CARDINAL SCALE MFG. CO. SHALL NOT BE RESPONSIBLE FOR THE STABILITY OF THE FOUNDATION.
4. THE FOUNDATION CONTRACTOR SHALL CONTACT THE STATE WEIGHT AND MEASURES DIVISION FOR STATE FOUNDATION REQUIREMENTS.
5. WORK FROM THE CENTERLINES WHEN ERECTING FORMS AND SETTING BOLTS.
6. ON THE APPROACH END OR ENDS OF A VEHICLE SCALE INSTALLED IN ANY ONE LOCATION FOR A PERIOD OF SIX MONTHS OR MORE, THERE SHALL BE A STRAIGHT APPROACH AS FOLLOWS:
   (A) AT LEAST THE WIDTH OF THE PLATFORM AND
   (B) AT LEAST ONE-HALF THE LENGTH OF THE PLATFORM BUT NOT REQUIRED TO BE MORE THAN 40 FEET, AND
   (C) NOT LESS THAN 10 FEET OF ANY APPROACH ADJACENT TO THE PLATFORM SHALL BE CONSTRUCTED OF CONCRETE OR SIMILAR DURABLE MATERIAL TO INSURE THAT THIS PORTION REMAINS SMOOTH AND LEVEL AND IN THE SAME PLANE AS THE PLATFORM. HOWEVER, GRATING OF SUFFICIENT STRENGTH TO WITHSTAND ALL LOADS MAY BE INSTALLED IN THIS PORTION AND TRENCH WHERE DEEMED NECESSARY FOR DRAINAGE PURPOSES. THE REMAINING PORTION OF THE APPROACH MAY SLOPE SLIGHTLY.
7. EXCAVATION AND CONCRETE REQUIRED FOR SCALE FOUNDATION AS SHOWN: MAIN PIERS: 8.5 CU. YDS. EXCAVATION; 10.4 CU. YDS. CONCRETE SLAB FLOOR: 4.7 CU. YDS. EXCAVATION; 6.3 CU. YDS. CONCRETE APPROACHES (10'-0" EACH END): 24 CU. YDS. EXCAVATION; 8.8 CU. YDS. CONCRETE
8. TRANSMISSION CABLE FROM LOAD CELL TO INDICATOR SHALL BE IN 1" MINIMUM SIZE CONDUIT AT LEAST 24" FROM THE CLOSEST ELECTRICAL LINE. THEY MAY CROSS AT 90° ONLY.
9. CAUTION: DO NOT WELD ON STRUCTURE WHILE ELECTRONIC LOAD CELLS ARE IN THE SYSTEM.
10. REFER TO DRAWING 3502-C435-GS FOR PROPER ELECTRICAL GROUNDING SPECIFICATIONS.
11. REINFORCING ROD AND WELDED WIRE MESH ARE NOT FURNISHED BY CARDINAL SCALE MFG. CO. THE REBAR SHALL CONFORM TO ASTM A615, GRADE 60. THE WELDED WIRE MESH SHALL CONFORM TO ASTM A-185.
12. TOP OF PIERS ARE TO BE SMOOTH AND LEVEL WITHIN ±1/8". (ALL PIERS ARE TO BE WITHIN 1/4".)

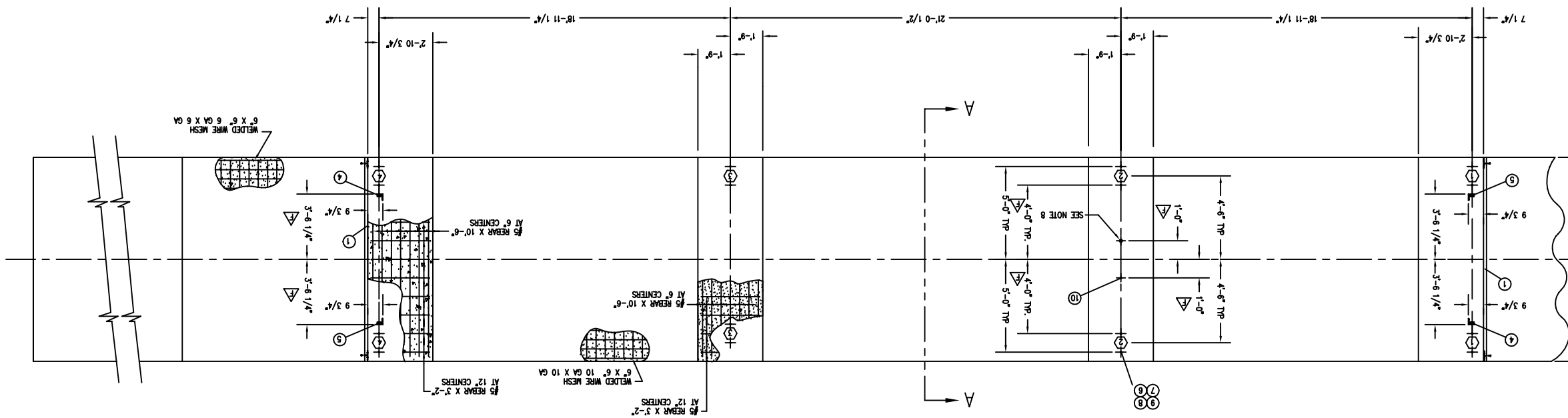
SECTION A-A



COPING ANGLE/BUMPER PLATE ATTACHMENT TYPICAL







PIER LOADINGS AT 30 TON CLC	
PIER	LOADING
1	35.0 KIPS
2	41.0 KIPS
3	41.0 KIPS
4	35.0 KIPS

REVISION RECORD			
LTR	DESCRIPTION	DATE	BY
A	RELEASED FOR PRODUCTION	7/22/98	16266 MJ/MJS
B	UPDATE APPEARANCE OF ITEMS 4 & 5 (REF ECR #2049)	3/1/99	16623 MJ/MJS
C	RELOCATE CHECK STANDS	12/30/99	20436 MJ/MJS
D	REVISE PIER LOADINGS	4/7/00	20737 MJ/MJS
E	CORRECT NOTE 7	11/10/00	21175 MJ
F	UPDATED FOUNDATION TO MATCH LOAD CELL STAND CHANGES. MOVED IN CHECK STANDS 2 1/2", MOVED ITEM 10 AND CONDUIT UNDER SCALE NOTE 7 MAIN PIERS WERE 9.3 & 11.4 ITEM 8 PART # WAS 6024-0018 ADJUSTED RE-BAR	11/10/00	21420 GC/MJS