REINFORCING ROD REQ'D. FOR PIT				
PIT REBAR IS NOT FURNISHED BY CARDINAL				
ITEM	QTY.	SIZE	DECRIPTION	WT. EA.
F1	36	#5 X 19'-4"	———	20.2#
F2	40	#5 X 14'-8"	———	15.4#
P1	20	#5 X 1'-7"	———	1.7#
P2	18	#5 X 3'-2"	———	3.3#
P3	5	#5 X 1-6"	———	1.6#
P4	2	#5 X 1-2"	———	1.2#
L1	110	#5 X 5'-0"	30"⌊30"	5.3#
EW1	24	#5 X 16'-2"	———	16.9#
EW2	36	#5 X 7'-10"	———	8.2#
EW3	28	#5 X 6'-3"	11⌊8" 56"	6.5#
EW4	32	#5 X 8"	———	0.7#
SW1	24	#5 X 18'-8"	———	19.5#
SW2	80	#5 X 7'-10"	———	8.2#
SW3	44	#5 X 11"	———	1.0#

REINFORCING ROD REQ'D. FOR DECK			
FURNISHED BY CARDINAL ONLY WHEN SPECIFIED ON ORDER			
ITEM	QTY.	SIZE	WT. EA.
D1	61	#4 X 13'-8"	9.2#
D2	28	#4 X 15'-6"	10.3
TOTAL DECK RE-BAR WT. = 850#			

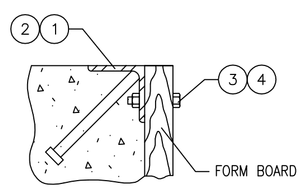
PIER LOADINGS @ 60 TON CLC	
PIER	LOADING
1	63.0 KIPS
2	10.9 KIPS

IMPORTANT! If your scale is equipped with access ways, such as manholes, it is the users responsibility to provide proper protection such as barriers, during the time they are open or removed.

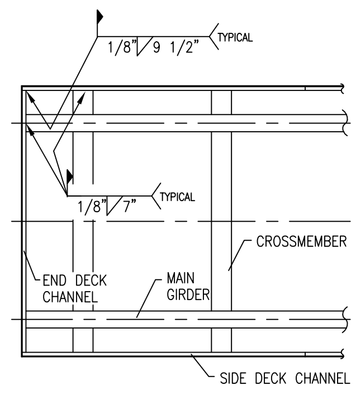
IMPORTANT! Traffic must move in the direction indicated. Driving in any other direction may cause scale damage. If damage occurs from vehicle traffic across the sides of the scale, the warranty will be void.

REVISION RECORD			
LTR	DESCRIPTION	DATE	BY
A	RELEASED	6/6/05	JAT

FOR REFERENCE ONLY

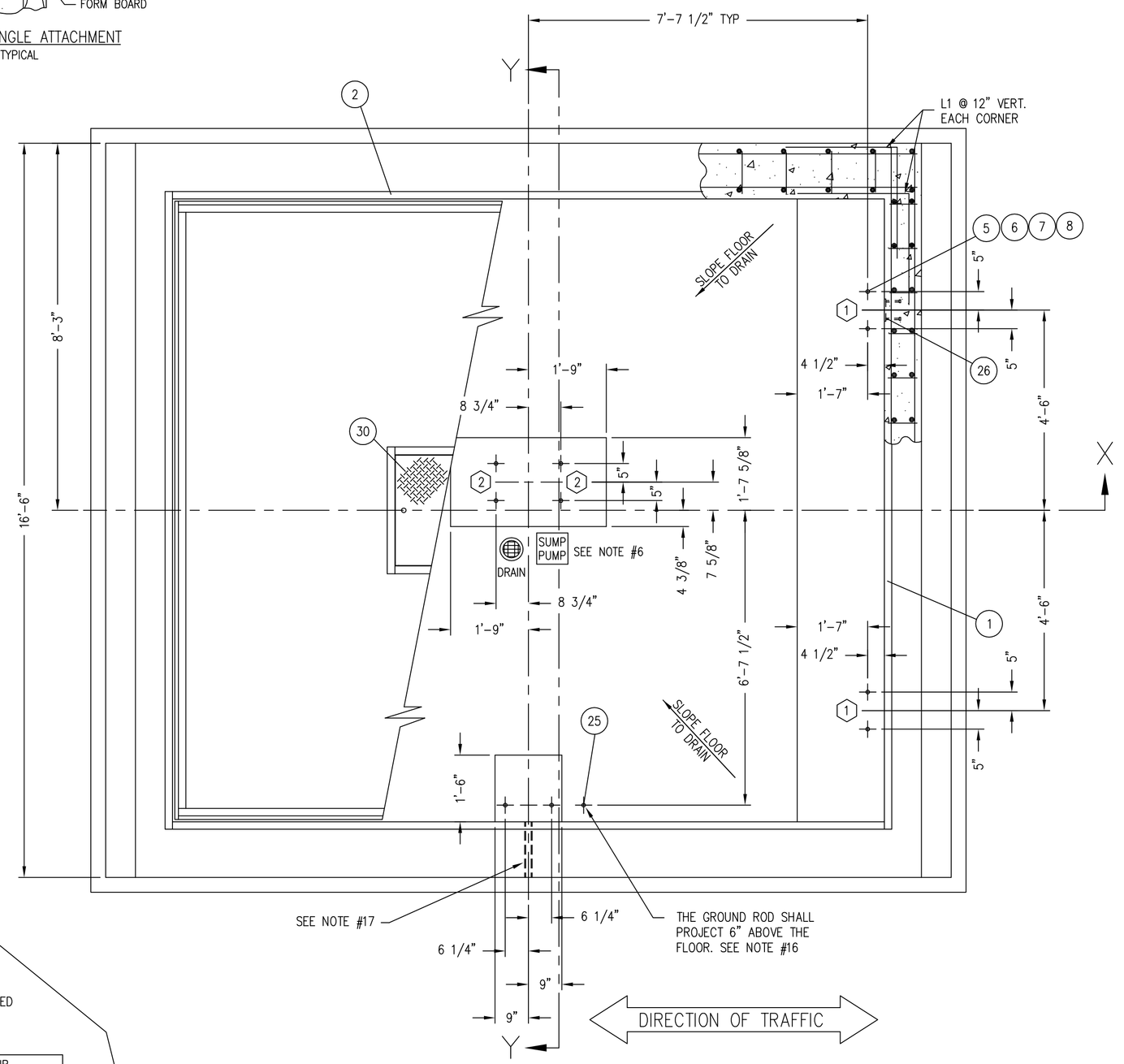


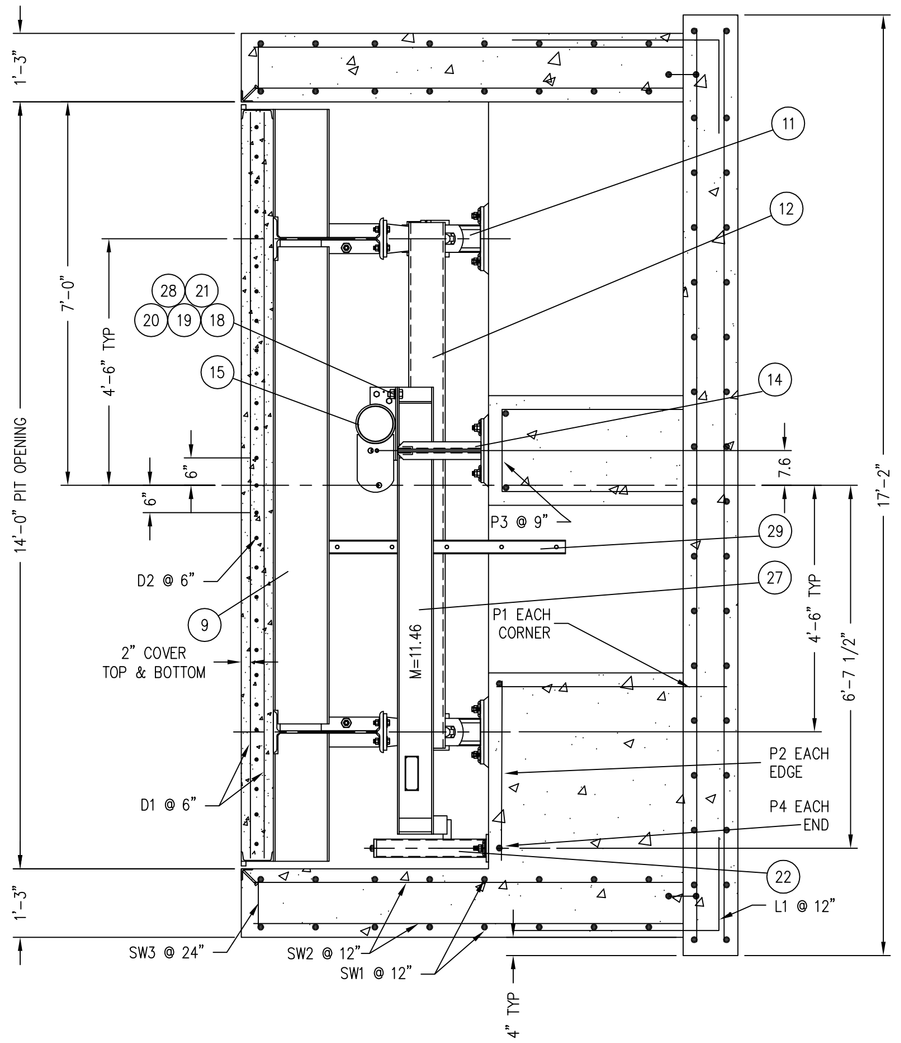
COPING ANGLE ATTACHMENT
TYPICAL



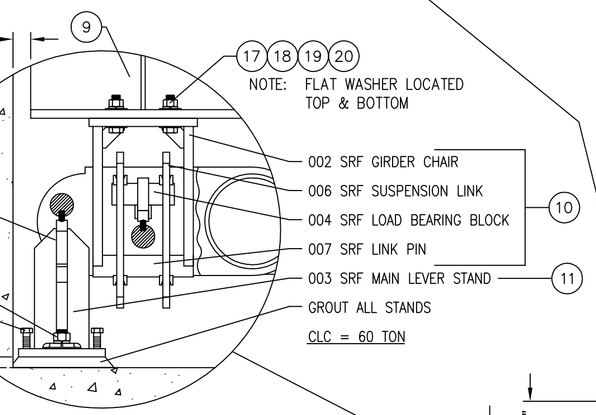
DECK CHANNEL FIELD WELDING

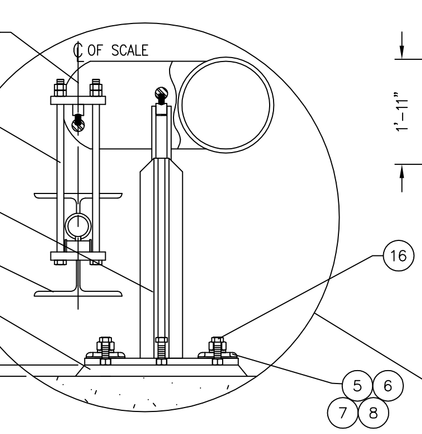
FIELD WELD THE DECK CHANNELS TOGETHER AND FIELD WELD THE DECK CHANNELS TO THE OUTRIGGERS AND MAIN GIRDERS AS SHOWN.

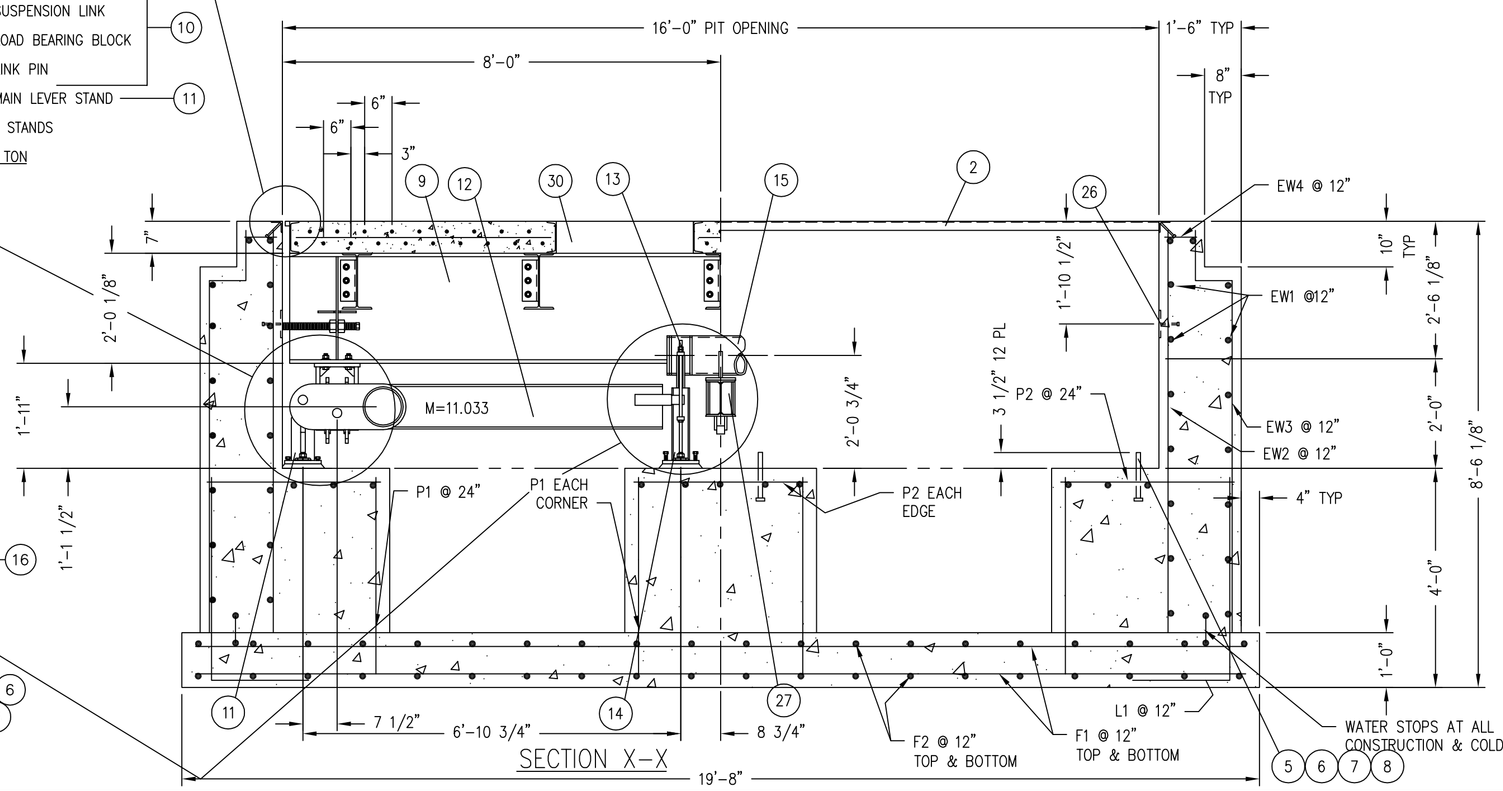




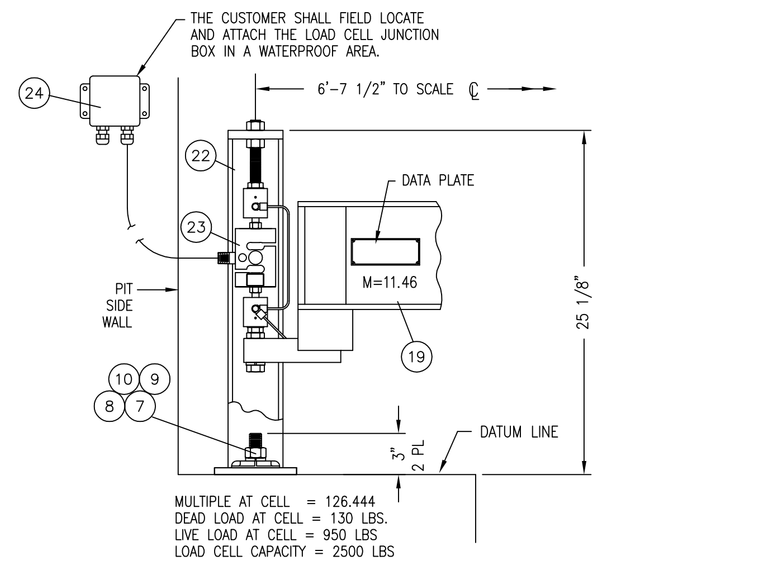
SECTION Y-Y







SECTION X-X



MULTIPLE AT CELL = 126.444
DEAD LOAD AT CELL = 130 LBS.
LIVE LOAD AT CELL = 950 LBS
LOAD CELL CAPACITY = 2500 LBS

NOTES:

1. THIS DRAWING IS IN COMPLIANCE WITH THE SCALE MANUFACTURING ASSOCIATION RECOMMENDATION FOR DESIGN AND INSTALLATION OF PIT TYPE SCALES. EXCEPTION: SEE NOTE 2.
2. THE PIT CONTRACTOR SHALL CONTACT STATE WEIGHTS AND MEASURES DIVISION FOR STATE PIT REQUIREMENTS. (SOME STATES REQUIRE SPECIAL PIT DEPTHS)
3. THE SCALE PIT AS SHOWN IS SUFFICIENT FOR FIRM SOIL AND GOOD CONCRETE. THE MINIMUM SOIL BEARING SHALL BE 4,000 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 PIT AS REQUIRED. FOOTINGS MUST BELOW FROST LINE.
4. CARDINAL SCALE MFG. CO. WILL NOT BE RESPONSIBLE FOR STABILITY OF THE PIT.
5. WORK FROM CENTERLINES WHEN ERECTING FORMS AND SETTING BOLTS. TOPS OF PIERS AND WALLS MUST BE SMOOTH, LEVEL, AND TRUE TO PLANE.
6. IT IS RECOMMENDED THAT A DRAIN OR SUMP PUMP BE PROVIDED IN THE SCALE PIT. LOCATION OF THIS ITEM SHOULD BE IN CLOSE PROXIMITY TO THE PIT ENTRANCE.
7. THE APPROACHES TO THE SCALE SHALL BE STRAIGHT, LEVEL AND IN THE SAME PLANE AS THE SCALE PLATFORM. THE APPROACHES SHALL BE AT LEAST AS LONG AS THE LONGEST VEHICLE THE SCALE IS DESIGNED TO WEIGH. AT LEAST 10 FEET OF THE APPROACH ADJACENT TO THE SCALE SHALL BE CONSTRUCTED OF CONCRETE. THE APPROACHES SHALL BE THE SAME WIDTH AS THE SCALE PLATFORM.
8. APPROX. 82 CUBIC YARDS OF EXCAVATION REQUIRED FOR SCALE PIT AS SHOWN.
9. APPROX. 34 CUBIC YARDS OF CONCRETE REQUIRED FOR SCALE PIT AS SHOWN.
10. APPROX. 5 CUBIC YARDS OF CONCRETE REQUIRED FOR SCALE PLATFORM AS SHOWN.
11. ALL SCALE PITS SHOULD BE PROVIDED WITH 115 VOLT A.C. OUTLETS AND PERMANENT LIGHTS. PROVISIONS SHOULD BE MADE FOR CONDUIT THROUGH THE PIT WALLS.
12. ONE OPENING SHALL BE PROVIDED IN THE SCALE PLATFORM TO PROVIDE ACCESS TO THE PIT.
13. ADJUST MAIN LEVER STANDS AND TRANSVERSE LEVER STANDS TO CORRECT ELEVATION AND GROUT AFTER SCALE HAS BEEN COMPLETELY SET. ONE INCH HAS BEEN ALLOWED ABOVE DATUM LINE FOR GROUT.
14. SET ALL CHECK BOLTS FOR 1/8 INCH TOTAL CLEARANCE AFTER THE SCALE HAS BEEN COMPLETELY SET.
15. THE WEIGHT INDICATOR IS SHOWN ON A SEPARATE DRAWING.
16. SEE DRAWING 3502-C008 FOR ELECTRICAL GROUNDING SPECIFICATIONS.
17. TRANSMISSION CABLE FROM LOAD CELL TO INDICATOR MUST BE IN 1" MINIMUM SIZE STEEL CONDUIT AT LEAST 24" FROM THE CLOSEST ELECTRICAL LINE. THEY MAY CROSS AT 90° ONLY. (LOCATION OPTIONAL)
18. DO NOT WELD ON STRUCTURE WHILE ELECTRONIC LOAD CELL IS IN THE SYSTEM.

QTY.	QTY.	QTY.	ITEM	PART/DWG. NUMBER	DESCRIPTION	MATERIAL OR SOURCE	WT. EACH
			ASSY				
		8885	WT.	PARTS/MATERIAL LIST			
		1	30	MC60064 SHT 8	MANHOLE		224.1
		1	29	MB60064 SHT 2	PIT LADDER		67.4
		4	28	6026-6000	TAPER PIN	#6 X 2 1/2" LONG	0.06
		1	27	MC60064 SHT 7	TRANSVERSE LEVER ARM		217.7
		4	26	0119-B008	BUMPER PLATE		5.0
			25	3502-B006-50	GROUNDING KIT	OPTIONAL EQUIPMENT: FURNISHED ONLY WHEN SPECIFIED ON ORDER	
		1	24	3502-B233-0A	LOAD CELL J-BOX		4.0
		1	23	3501-B188-1A	LOAD CELL ASS'Y		9.5
		1	22	0139-B039-2A	LOAD CELL STAND		40.7
		8	21	6007-0290	HEX HEAD BOLT	3/4"-10 UNC-2A X 2"	0.4
		24	20	6024-0054	LOCK WASHER	3/4"	0.03
		40	19	6024-0018	FLAT WASHER	3/4"	0.12
		24	18	6013-0125	HEX NUT	3/4"-10 UNC-2B	0.12
		16	17	6007-0310	HEX HEAD BOLT	3/4"-10 UNC-2A X 3"	0.53
		20	16	6007-0230	HEX HEAD BOLT	5/8"-11 UNC-2A X 3" FULL THREAD	0.4
		1	15	MC60064 SHT 3	TRANS. LEVER PIPE		159.8
		2	14	0119-C068	TRANS. LEVER STAND		38.0
		2	13	0119-B127-53	CENTER SHACKLE		7.8
		2	12	MC60064 SHT 2	MAIN LEVER		765.2
		4	11	0119-C010	MAIN LEVER STAND		97.5
		4	10	MC60064 SHT 1	SUSPENSION SYSTEM ASSEMBLY		113.8
		1	9	MB60064 SHT 1	WEIGHBRIDGE		5396
	PIT STEEL	14	8	6024-0063	WASHER	7/8" MALLEABLE IRON	0.46
		14	7	6024-0057	LOCK WASHER	7/8"	0.05
		14	6	6013-0145	HEX NUT	7/8"-9 UNC-2B	0.2
		14	5	6007-0330	HEX HEAD BOLT	7/8"-9 UNC-2A X 10"	1.94
		20	4	6013-0065	HEX NUT	3/8"-16 UNC-2B	0.02
		20	3	6007-0050	HEX HEAD BOLT	3/8"-16 UNC-2A X 1 1/2"	0.07
		2	2	0119-B151	COPING ANGLE	16'-0"	42.0
		2	1	0119-B068	COPING ANGLE	14'-4"	63.6

UNLESS OTHERWISE SPECIFIED TOLERANCE ON DIMENSIONS ARE:
ANGLES ± 1/2°
INTEGERS/FRACTIONS ± 1/16 IN.
DECIMALS (.X) ± .03 IN.
DECIMALS (.XX) ± .01 IN.
DECIMALS (.XXX) ± .005 IN.
NOTE: WHOLE NUMBERS MUST BE WRITTEN XX.000 TO INVOKE DECIMAL TOLERANCES.

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Cardinal® Cardinal Scale Manufacturing Co. WEBB CITY, MISSOURI, U.S.A. 64870
CARDINAL DETECTO FULLER WEIGHING SYSTEMS

TITLE: FINAL ASSEMBLY & PIT PLAN
60 TON; 2 SECTION; AXLE LOAD SCALE
16' X 14' X 7" CONCRETE DECK

SCALE N.T.S. | DO NOT SCALE DRAWING | NEXT ASSEMBLY

DR. TARNOWIECKYI | DATE 6/6/05

CH. | DATE

MD60064

MODEL 6016 ASRL | SHEET 1 OF 2 | DWG. NO. WYDOT | REV. B

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