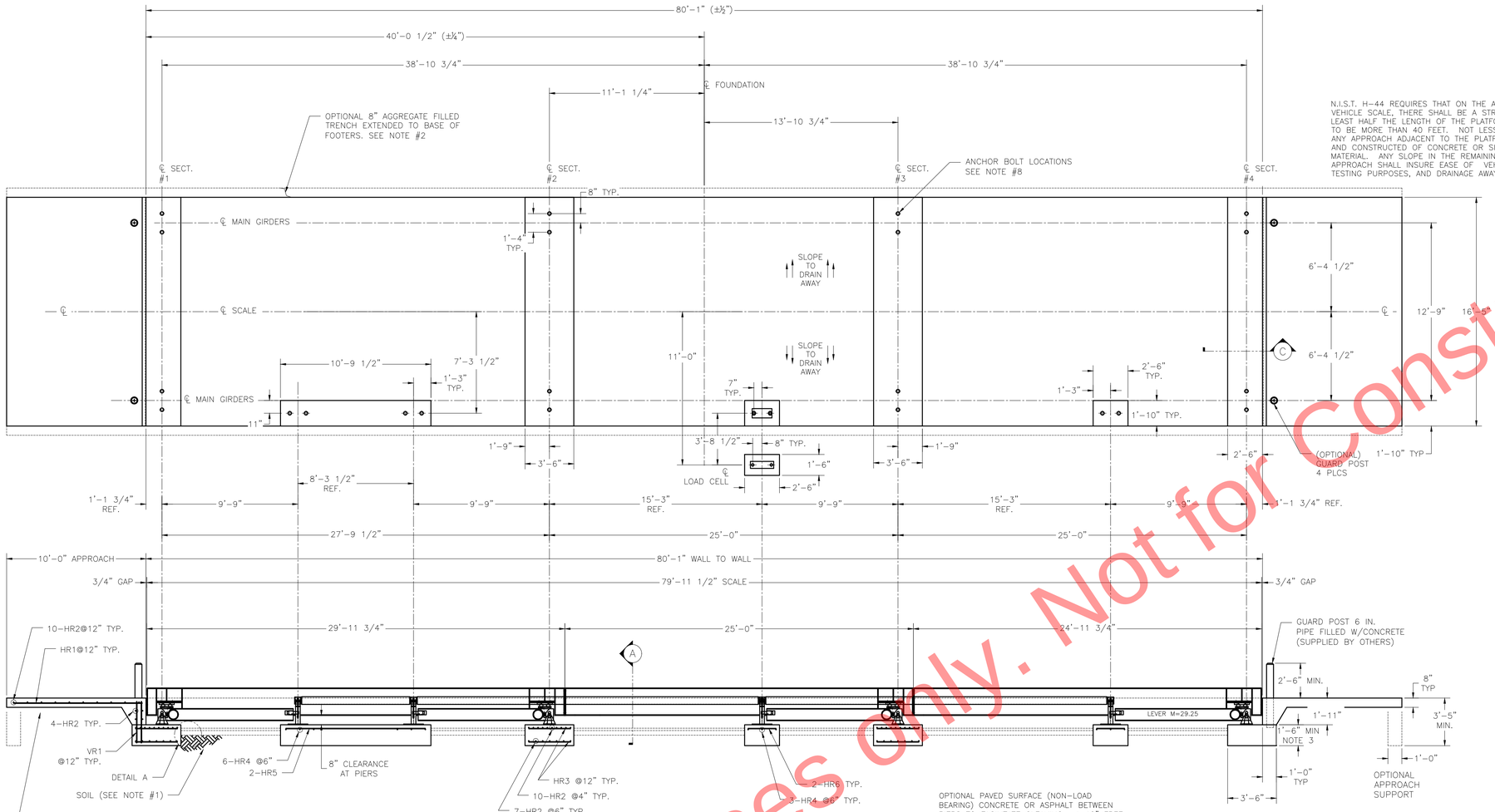
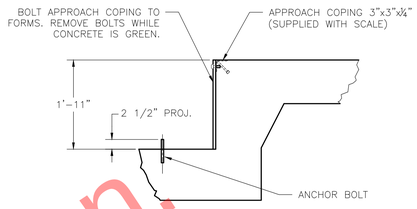


OPTIONAL PAVED SURFACE (NON-LOAD BEARING) CONCRETE OR ASPHALT BETWEEN PIERS TO FACILITATE CLEANING. A 12" FREE DRAINING GRAVEL SUB-BASE RECOMMENDED IN AREAS SUBJECT TO FROST HEAVE.

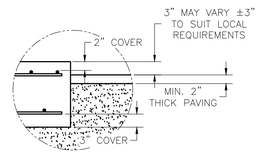
N.I.S.T. H-44 REQUIRES THAT ON THE APPROACH ENDS OF THIS VEHICLE SCALE, THERE SHALL BE A STRAIGHT APPROACH AT LEAST HALF THE LENGTH OF THE PLATFORM, BUT NOT REQUIRED TO BE MORE THAN 40 FEET. NOT LESS THAN 10 FEET OF ANY APPROACH ADJACENT TO THE PLATFORM SHALL BE LEVEL AND CONSTRUCTED OF CONCRETE OR SIMILAR DURABLE MATERIAL. ANY SLOPE IN THE REMAINING PORTION OF THE APPROACH SHALL INSURE EASE OF VEHICLE ACCESS, EASE FOR TESTING PURPOSES, AND DRAINAGE AWAY FROM THE SCALE.



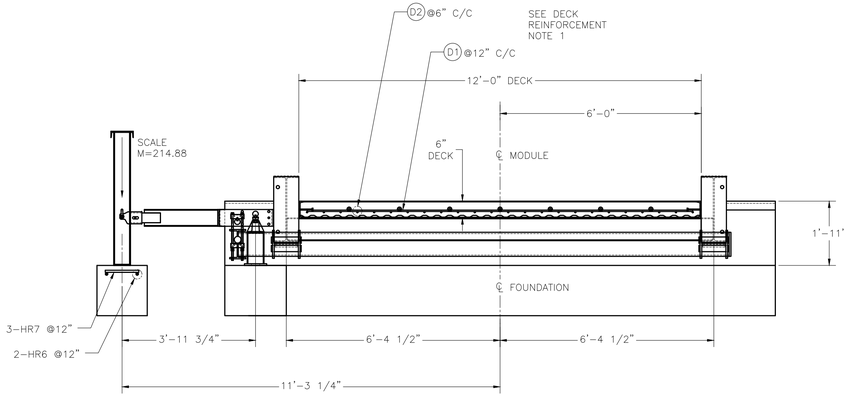
SECTION C-C

DRILL TYPE ANCHOR INFORMATION (DRILL TYPE ANCHORS PROVIDED WITH THE SCALE)
FOR THE CORNER STANDS (16 REQUIRED) FOR THE FULCRUM & LC STANDS (10 REQUIRED) 5/8 DIA X 6" STUD TYPE ANCHORS DRILL DIA 5/8", DRILL DEPTH 3 1/2"

ANCHOR DETAIL



DETAIL A



SECTION A-A

MODULE REINFORCING SCHEDULE
ASTM 615 - GRADE 60

MODULE	MARK	QTY	SIZE	LENGTH	WEIGHT (LBS)	COMMENT
(2) 25'x12'	D1	52	#4	11'-6"	400	(26) LAT. EA. MODULE
	D2	48	#4	24'-6"	786	(24) LONG. EA. MODULE
30'x12'	D1	31	#4	11'-6"	239	(31) LAT. EA. MODULE
	D2	24	#4	29'-6"	473	(24) LONG. EA. MODULE
				TOTAL WEIGHT	1,898	

FOUNDATION REINFORCING SCHEDULE
ASTM 615 - GRADE 60

MARK	QTY	SIZE	LENGTH	WEIGHT (LBS)	COMMENT
HR1	32	#4	9'-6"	204	LONG. EA. APPROACH
HR2	96	#4	15'-11"	1021	LAT. EA. APPROACH; PIER
HR3	128	#4	3'-0"	257	LONG. EA. PIER
HR4	2	#4	10'-0"	14	LONG. DUAL FULCRUM PIER
HR5	12	#4	1'-4"	11	LAT. EA. FULCRUM PIER
HR6	6	#4	2'-0"	9	LONG. EA. FULCRUM PIER; LC PIER
HR7	3	#4	1'-0"	2	LAT. LOAD CELL PIER
VR1	64	#4	3'-1"	132	VERT. EA. END WALL
			TOTAL WEIGHT	1,650	

REINFORCING STEEL NOTES:
1. REINFORCING STEEL SHALL BE FREE OF ALL MUD, DEBRIS, CEMENT GROUT, LOOSE RUST, GREASE, AND OIL.
2. TACK WELDING OF BARS IS PROHIBITED.

FOUNDATION CONCRETE
4000 PSI MINIMUM

LOCATION	QTY (CU. YDS)
PIERS AS SHOWN	14.6
FLOOR AT 2" THICK	6.9
APPROACHES	10.6
MODULES	18.0
OPTIONAL APPROACH SUPPORTS	3.4
TOTAL CONCRETE	53.6

CONCRETE POURING & FINISHING INSTRUCTIONS FOR SCALE DECK:
1. FINISH THE CONCRETE DECK WITH A BULL FLOAT AND HAND TROWEL OR BROOM TO THE DESIRED FINISH.
2. THE CONCRETE IS TO BE MOIST CURED FOR SEVEN DAYS OR MAY ALTERNATIVELY RECIEVE A COAT OF LIQUID CURING COMPOUND.
3. DO NOT USE OR CALIBRATE THE SCALE UNTIL THE DECK IS CURED AND HAS REACHED 4000 PSI MINIMUM COMPRESSIVE STRENGTH.

NOTES:
1. FOUNDATION DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 3000 LB/SQ. FT. FOR SOIL CONDITIONS WHICH DO NOT MEET THIS SPECIFICATION, CONSULT WITH THE THURMAN SCALE COMPANY.
2. THE FOUNDATION SHALL BE INSTALLED AT AN ELEVATION AND LOCATION TO INSURE ADEQUATE DRAINAGE AWAY FROM SCALE. A PERIMETER TRENCH AND AGGREGATE BASE MAY BE ADDED IF DRAINAGE IS NOT SUFFICIENT TO MAINTAIN 3000 LB/SQ. FT. BEARING CAPACITY.
3. BOTTOM OF FOOTERS SHOULD EXTEND BELOW THE FROST LINE. AN 18 INCH FOOTER DEPTH IS MINIMUM.
4. N.I.S.T. H-44 REQUIREMENTS AND LOCAL WEIGHTS AND MEASURES REGULATIONS MAY REQUIRE INSTALLATION PARAMETERS SOMEWHAT DIFFERENT THAN ILLUSTRATED ON THIS PLAN. IN ORDER TO INSURE COMPLIANCE, CONSULT THE LOCAL WEIGHTS & MEASURES OFFICE PRIOR TO CONSTRUCTION.
5. CONCRETE OF 4000 PSI MINIMUM COMPRESSIVE STRENGTH IS REQUIRED, WITH 5-7% AIR ENTRAINMENT. VIBRATE CONCRETE WHEN POURING. FOLLOW LATEST ACI REQUIREMENTS FOR MATERIALS AND CONSTRUCTION. DO NOT CAST UNLESS TEMPERATURE IS ABOVE 40 DEGREES FAHRENHEIT.
6. PIERS MUST BE LEVEL AND IN THE SAME PLANE WITHIN ±1/8 INCH.
7. EXCAVATION, FORMS, REINFORCING STEEL, GUARD POSTS, AND CONCRETE FURNISHED BY OTHERS.
8. DO NOT PLACE REBAR IN CLOSE PROXIMITY OF ANCHOR BOLTS.

DECK REINFORCEMENT
1. CORREGATED PAN SHOULD RUN WITH THE LENGTH OF THE SCALE ACROSS THE CROSSBEAMS. RECOMMENDED SIZE: 22GA, 6" PITCH, 1 1/2" MAX. CORREGATE HEIGHT IF SUPPLIED WITH OPTIONAL REBAR MAT, TIE BELOW STUDS. IF REINFORCEMENT SUPPLIED BY OTHERS, PLACE D2 BARS ON THE PAN BEFORE TYING TWO OF THE D1 BARS TO THE BOTTOM OF THE STUDS. THEN TIE REMAINING D1 BARS TO THE TOP OF THE D2 BARS.
2. POUR CONCRETE. SEE NOTE 5 ABOVE.
3. CAUTION! THE MAIN GIRDERS SHOULD NEVER BE USED AS A STEP. SLIPPERY WHEN WET.

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:

REVISIONS

REV	BY	DATE	DESCRIPTION
2	JCR	5/21/2015	UPDATED ANCHOR LOCATIONS FOR LARGER CORNER STANDS (8" WAS 6")
1	JCR	3/20/2015	CHANGED TO TWO 25' SPANS (WAS TWO 30' SPANS); UPDATED CONCRETE/REBAR SCHEDULES

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN INCHES, AND TOLERANCES ARE AS FOLLOWS:
FRACTIONS ±1/8"
ANGLES ±1°
3-PLACE DECIMAL ±0.005
2-PLACE DECIMAL ±0.05
HOLE DIAMETERS ±1/32"
THIRD ANGLE

8130 90K 80'x12'
(PIER TYPE FOUNDATION, 4 SEC)

THURMAN SCALE
COLUMBUS, OH

SCALE: NTS DRAWN: JCR CHECKED:
SHEET: 1 OF 1 DATE: 01/20/12 APPROVED:
MODEL: 8130
DRAWING NUMBER: 92675-FT REV: 2

Illustrative purposes only. Not for Construction.