Top Plan View

100'-0 1/2"
80'-0 1/2"
10'-0"   10'-0"
1'-0 1/2"   1'-0 1/2"
20'-5 3/8"   19'-1 7/8"   19'-11 7/8"   20'-5 3/8"
19'-11 7/8"   19'-11 7/8"   19'-11 7/8"
5 1/2"   5"   5 1/2"
℄ Section #1   ℄ Section #2   ℄ Section #3   ℄ Section #4   ℄ Section #5
℄ Scale   ℄ Scale
℄ Load Cells
6'-0"   5'-2 1/8"
12'-0"   ℄ Scale
-10'-4 1/4"
℄ Load Cells

END PIER DETAIL
typical both end sections

Refere to General Note #3
10'-0"
(10) AR1 @ 12" O.C   (12) VR1 @ 12" O.C
(12) AR2 @ 12" O.C   (2) AR1 @ 8" O.C
Remove all top soil. The subgrade must be firm and unyielding. Compact if necessary and as required. Backfill with the best available material, aggregate preferred.
8"
(8) HR1 @ 4" O.C
(12) HR2 @ 12" O.C
1'-7 3/4"
3" Recommended
1'-3"
Minimum thickness as required for concrete or ashpalt.
℄ Section
(4) HR3 @ 9" O.C
1'-6"
3'-0"

INTERIOR PIER DETAIL
typical all interior sections

(8) HR1 @ 4" O.C
(12) HR2 @ 12" O.C
1'-3"
3" Recommended
Minimum thickness as required for concrete or ashpalt.
℄ Section
(4) HR3 @ 9" O.C
1'-6"
3'-0"

FOUNDATION REINFORCING SCHEDULE
ASTM 615 – GRADE 60

MARK	QTY	SIZE	LENGTH	BENDING	WEIGHT (LBS)
VR1	48	#4	3'-4"	2'-4" 1'-0"	107
HR1	40	#5	11'-6"	11'-6"	480
HR2	120	#4	2'-6"	2'-6"	200
HR3	20	#4	11'-6"	11'-6"	154
APPROACH REBAR					
AR1	24	#4	11'-6"	11'-6"	184
AR2	24	#4	9'-6"	9'-6"	152
				Total Weight:	1277

END WALL LAYOUT DETAIL
SIDE VIEW

TOP OF APPROACH
APPROACH COPING L3"x3"x1/4" SUPPLIED WITH SCALE
EMBEDDED END BUMP PLATE ASSEMBLY
BOLT OR LAG COPING TO FORMS BEFORE POURING APPROACH
USE PROVIDED 3/4"x3" BOLTS TO SECURE END BUMP PLATE TO FORMS. MUST BE FLUSH WITH FACE OF END WALL.
TOP OF PIER OR SLAB

END WALL LAYOUT DETAIL
FRONT VIEW

12'-0"
6'-0"
5'-8"
4 1/2"

FOUNDATION CONCRETE
3500 PSI MINIMUM

LOCATION	QTY (CU. YDS)
PIERS	8.50
WASHOUT	9.25
APPROACHES	7.50
TOTAL CONCRETE	24.75
MINIMUM EXCAVTION	22.50

WEIGHBRIDGE GROUNDING DETAIL
℄ END SECTION
Within 3'-0" of Scale
WEIGHBRIDGE GROUND ROD SEE GROUNDING NOTES
11 1/2"

PIT POWER SUPPLY GROUNDING DETAIL
INTERIOR SECTION
Within 3'-0" of Scale
℄ INTERIOR SECTION
PPS GROUND ROD SEE GROUNDING NOTES
CONDUIT
3"   11 1/2"

ANCHOR DETAIL
℄ Section
Install anchors outside of load cell centerlines.
Traffic
℄ Load Cell
7 1/2"
6"   3"
Load cell base plate anchors are drill-in-place 5/8"-11 x 6" wedge type anchors, supplied by Fairbanks. (2) per cell, (4) per section. Anchors to project 2 1/2".

GENERAL NOTES

1. Foundation shown is designed for soils with a minimum bearing capacity of 3000 psf and adequate drainage. if soil conditions do not meet these requirements, adjust foundation or soil as required.
2. In areas of the country where there is severe freezing, increase the depth of the foundation so that the bottom extends below the frost line, or provide a minimum of 12" free draining granular material to prevent frost heave.
3. N.I.S.T. H-44 requires that on the entrance and exit ends of a vehicle scale, there shall be a straight approach that is:
   3.1. At least the width of the platform.
   3.2. The lenght of at least one-half the length of the platform but not required to be more than 40ft, and
   3.3. Any slope in the remaining portion of the approach shall ensure ease of vehicle access, ease for testing purposes, and drainage away from the scale.
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 Fairbanks service office prior to installation.
5. Refer to manual for all installation and operation instructions.
6. Fairbanks does not recommend using foundation or ground installed guide rails along the sides of the truck scale platform. Damage may occur to the scale if the vehicle hits the guide rail, transferring damaging forces to the platform and the checking system. usage of this style guide rail will void the product warranty. If guide rails are necessary, please use fairbanks accessory rub rails.
7. A minimum of 24" of clearance is required on both sides of the scale in order to access load cells, electronics, and checking hardware.

REINFORCING STEEL NOTES

1. Reinforcing steel are to be ASTM 615, Grade 60 or equal. Bend bars cold to conform with required details. Rebar shall be free of all mud, debris, cement grout, loose rust, grease and oil that would impair bonding. Space bars properly and tie securely in position before pouring concrete. Tack welding of bars is prohibited
2. Rebar cover:
   2.1. Concrete cast against earth: 3"
   2.2. Formed concrete exposed to earth or weather: 2"
   2.3. Cover at termination end of rebar: 3"

GROUNDING AND ELECTRICAL NOTES:

1. Install (2) 3/4" x 8'-0" long ground rods to project 4" above the surface. Two ground rods are supplied with scale.
   1.1. One for grounding Intalogix Power Supply. Position the ground rod to match the chosen location for the PPS. The PPS may be located at any interior section, and on either side of the scale.
   1.2. One for grounding scale weighbridge. Place within 3ft of scale, at any convenient location. The power supply ground must be separate from weighbridge ground.
2. Install minimum 1 1/2" conduit for cable from junction box to scalehouse. Conduit to extend 2" above the surface (not supplied by Fairbanks Scales). Position near PPS.
3. If alternating current (AC) is required near the scale, it shall not run closer than 36" in parallel with any load cell or other signal carrying cable.
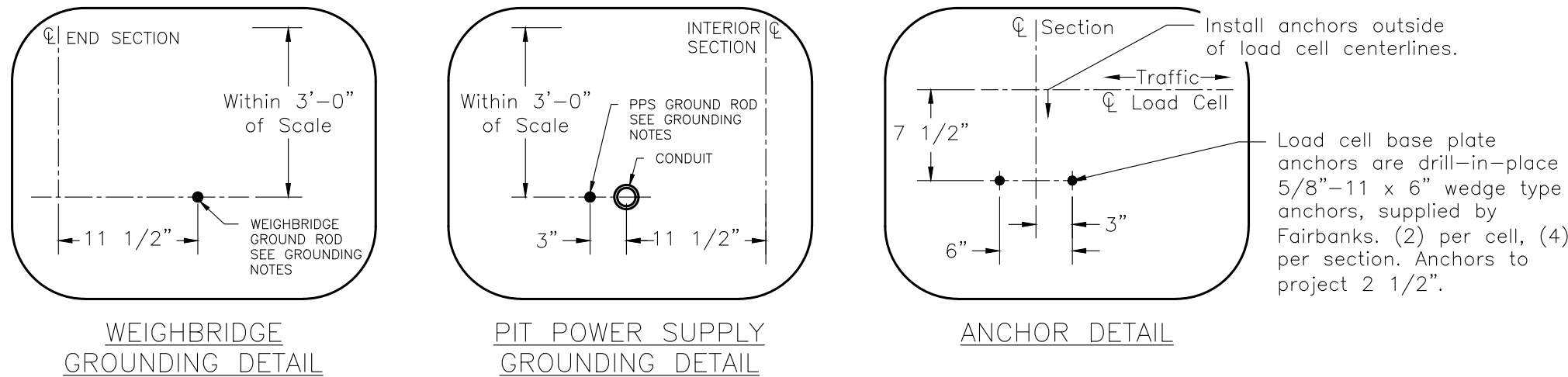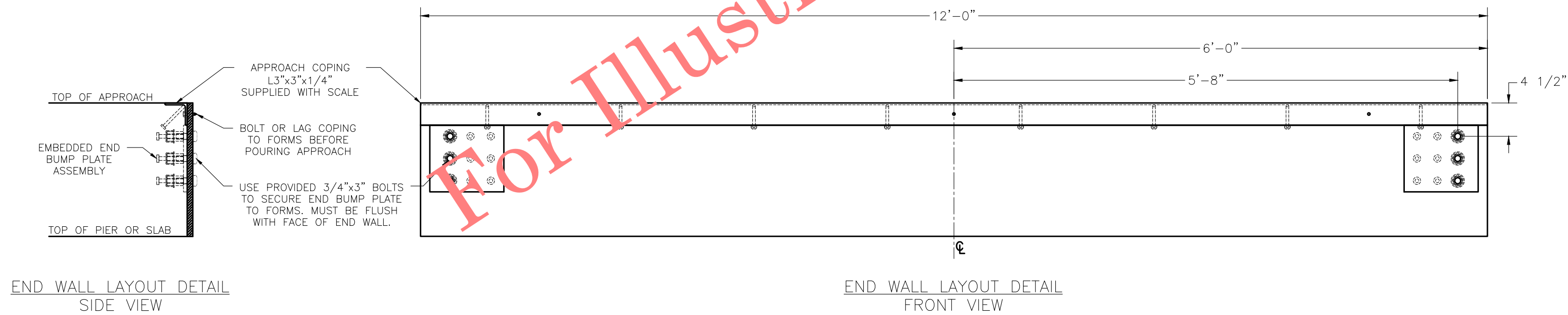
UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN INCHES, AND TOLERANCES ARE AS FOLLOWS:
FRACTIONS ±1/8"
ANGLES ±1°
3-PLACE DECIMAL ±0.005
2-PLACE DECIMAL ±0.005
HOLE DIAMETERS ±1/32

FAIRBANKS SCALES
AMERICAN, Inc.

80' x 11'
Trident 80k Precast Undermount
80,000lb CLC, 125ton Capacity

SCALE: NTS   DRAWN: JH   CHECKED:
SHEET: 1 OF 1   DATE: 3/17/16   APPROVED:
DRAWING NUMBER: D-A163180-AP15   REV: —
MODEL: PLT-6030-080-A11-080

PRINTED 17 MARCH 2016 - 1:11PM BY JAMAR HUDSON