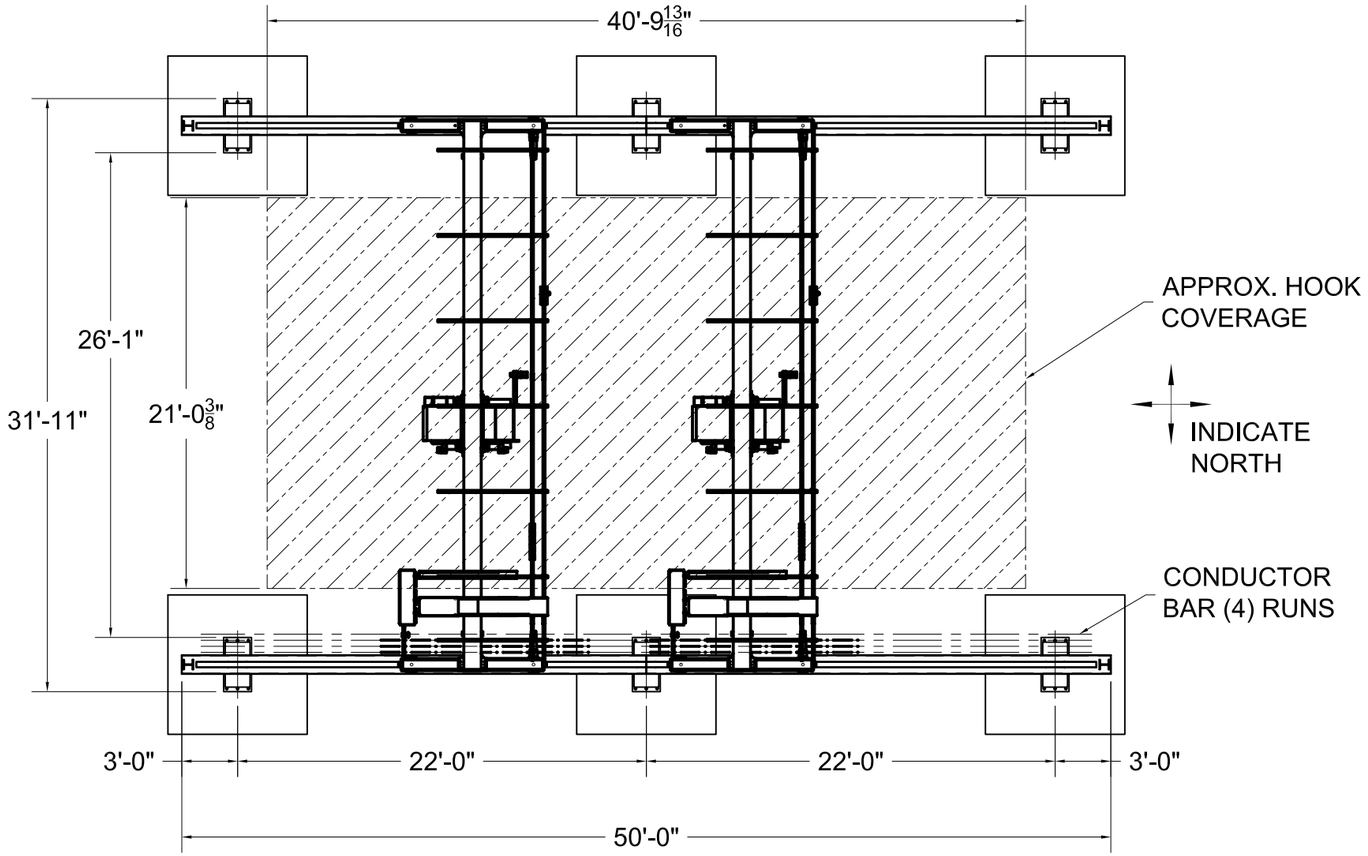
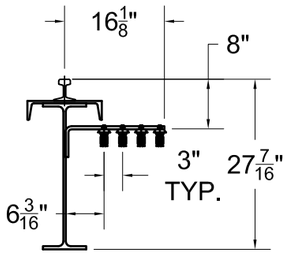
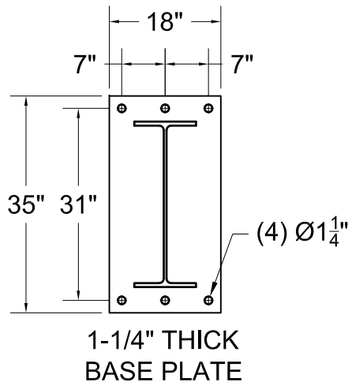






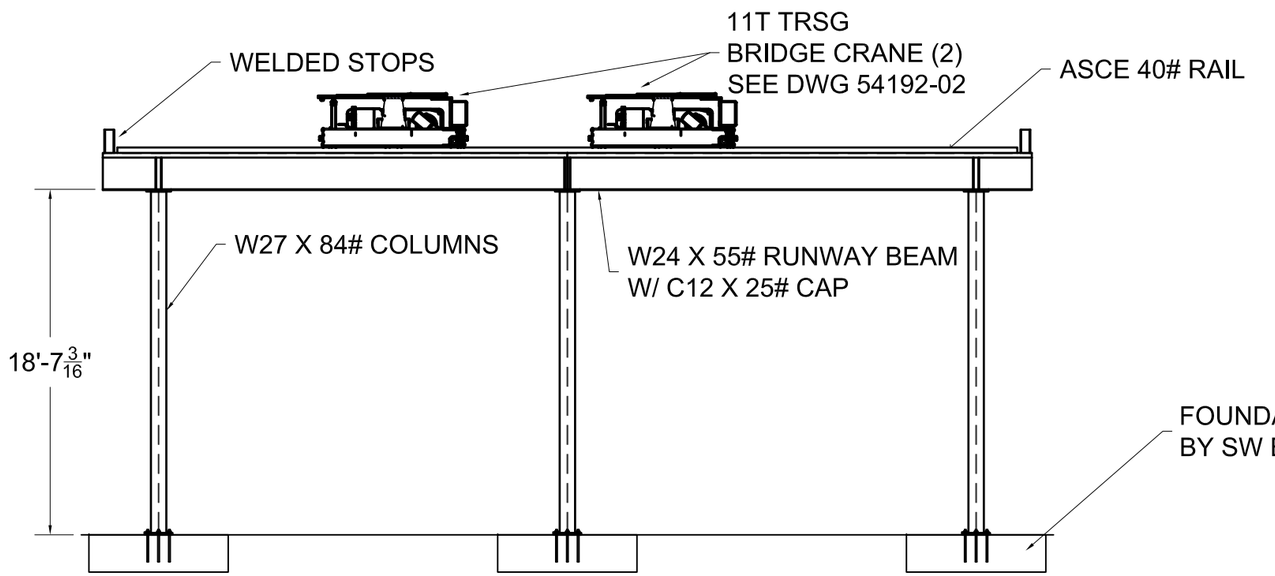
CRANE RUNWAY INSTALLATION TOLERANCES			
ITEM	FIGURE	OVERALL TOLERANCES	MAXIMUM RATE OF CHANGE
SPAN* * MEASURED @ CRANE WHEEL CONTACT SURFACE	MAX. L+L-A; MIN. L+L-A; NOMINAL SPAN L	L≤50' A=3/16" L>50'<100' A=1/4" L>100' A=3/8"	1/4" IN 20'-0"
STRAIGHTNESS	+B; -B	B=3/8"	1/4" IN 20'-0"
ELEVATION	+C; -C	C=3/8"	1/4" IN 20'-0"
TOP RUNNING TRANSVERSE RAIL TO RAIL ELEVATION	D	L≤50' D=+3/16" L>50'<100' D=+1/4" L>100' D=+3/8"	1/4" IN 20'-0"
		REF CMAA 70-2010, TABLE 1.4.2-1	

JOB NO.: 54192
NO. OF UNITS: 1 RUNWAY WITH 2 CRANES
RUNWAY CAPACITY: 22 TON
SUPPLY VOLTAGE: 460V-3-60
RADIO CONTROLS FOR SINGLE OR TANDEM CRANE OPERATION

FINISH:
CRANE: LIME GREEN ENAMEL
RUNWAY: GRAY PRIMER

COMPONENT WEIGHTS:
- BRIDGE WEIGHT: 4694 LBS.
- HOIST WEIGHT: 1440 LBS.
- COLUMN ASSEMBLY: 1940 LBS. EA.
- RUNWAY BEAM: 2390 LBS. EA.
- CONDUCTOR BAR (EST): 230 LBS.
- HARDWARE (EST): 140 LBS.

TOTAL RUNWAY WEIGHT: 21570 LBS.



FOR APPROVAL

NAME: _____

DATE: _____

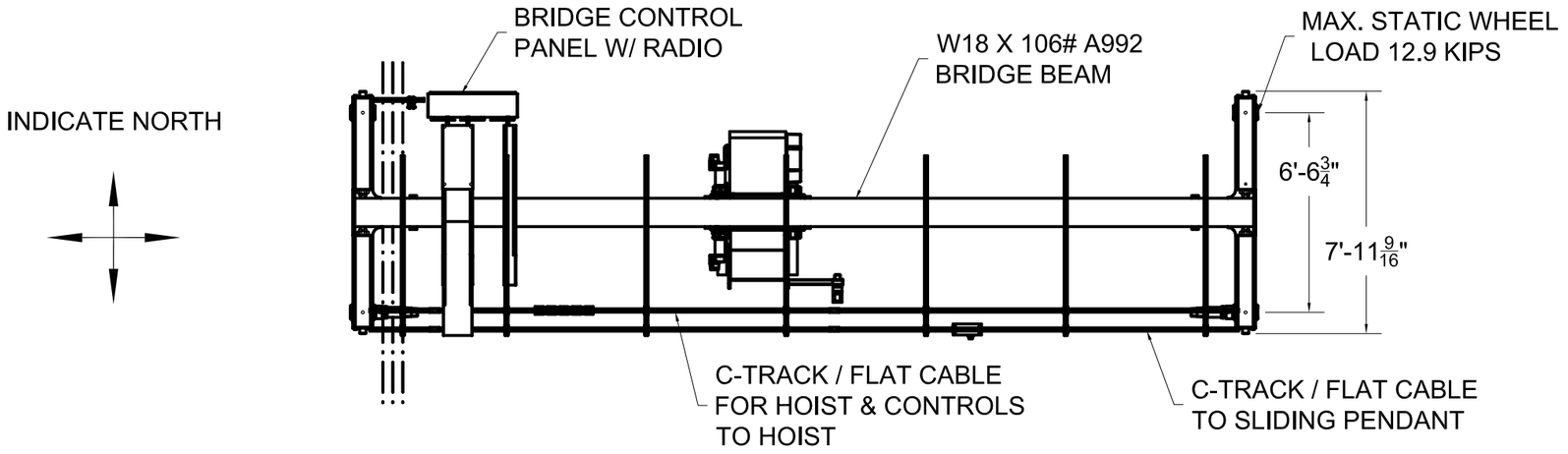
TOLERANCES UNLESS OTHERWISE SPECIFIED			
.X	± 0.050"	FRACTIONAL	± 1/16"
.XX	± 0.015"	ANGULAR	± 1°
.XXX	± 0.005"		

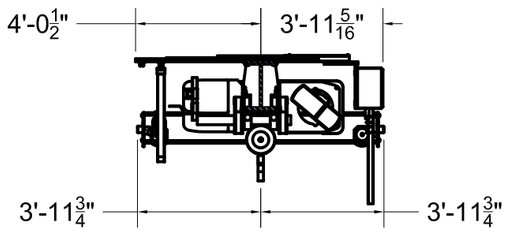
CONTRX INDUSTRIES
1377 Kimberly Dr., Neenah, WI 54956
www.contrx.com

DATE		BY
12/08/2016	1:100	NM

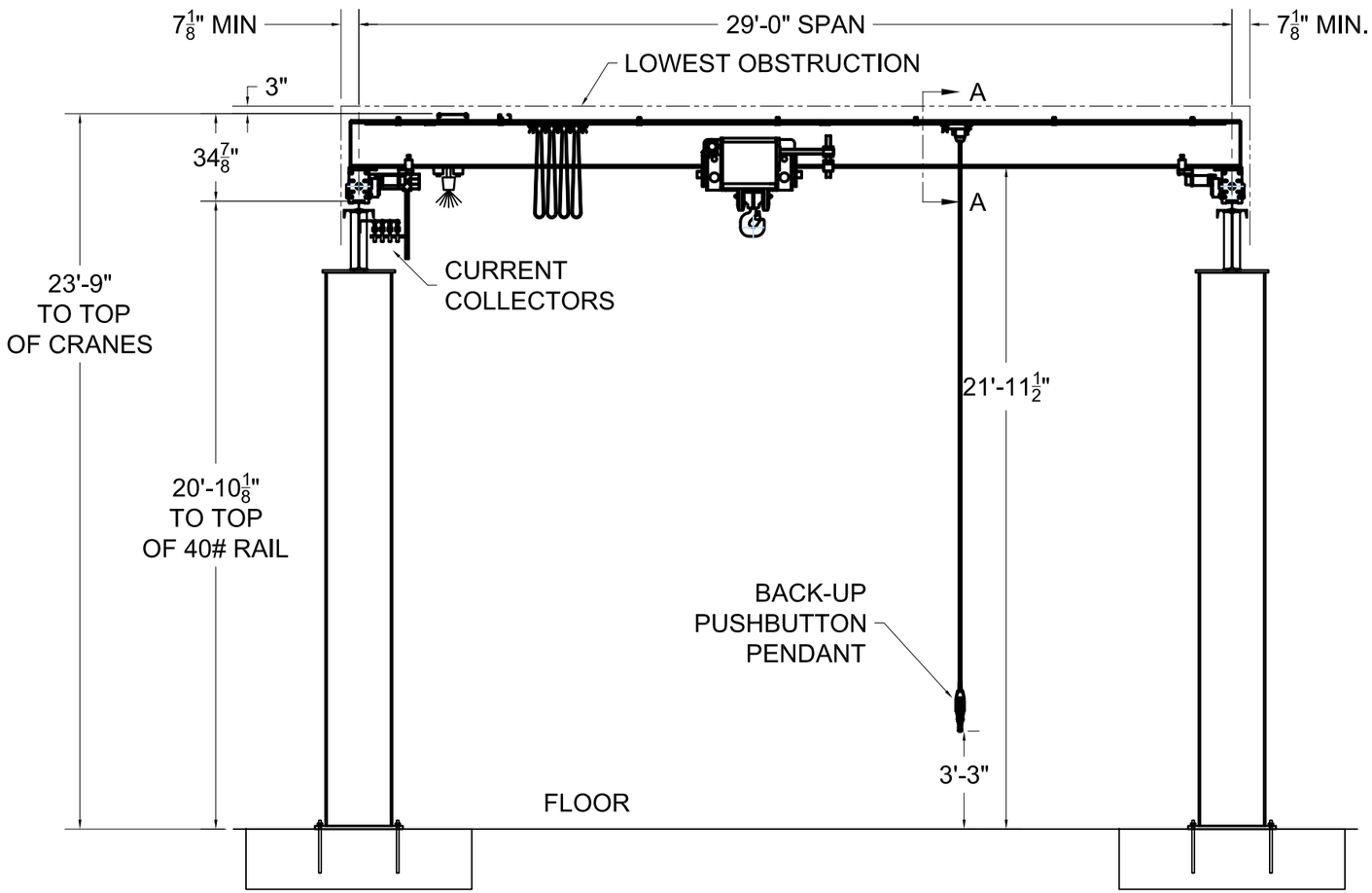
22 TON FREE STANDING RUNWAY
PO# 22317

QUANTITY	DWG NO
1	54192-01





SECTION A-A



JOB NO.: 54192
NO. OF UNITS: 1 RUNWAY WITH 2 CRANES
BRIDGE CRANE CAPACITIES: 11 TON
SUPPLY VOLTAGE: 460V-3-60
CMAA CLASS C INDOOR
BRIDGE SPEED: 100 FPM VFD
TROLLEY SPEED: 65 FPM VFD
HOIST SPEED:20/3.2 FPM
CRANE: LIME GREEN ENAMEL
SHIP TO: SAFAN DARLEY
9070 JUNCTION DRIVE
ANNAPOLIS JUNCTION, MD 20701
SHIP VIA: WILL ADVISE
OPTIONS:
• RADIO CONTROLS FOR SINGLE OR TANDEM CRANE OPERATION WITH A, B, BOTH
• YELLOW STROBE LIGHT

COMPONENT WEIGHTS:
- BRIDGE WEIGHT: 4694 LBS.
- HOIST WEIGHT: 1440 LBS.

FOR APPROVAL

NAME: _____

DATE: _____

TOLERANCES UNLESS OTHERWISE SPECIFIED

.X	± 0.050"	FRACTIONAL	± 1/16"
.XX	± 0.015"	ANGULAR	± 1°
.XXX	± 0.005"		

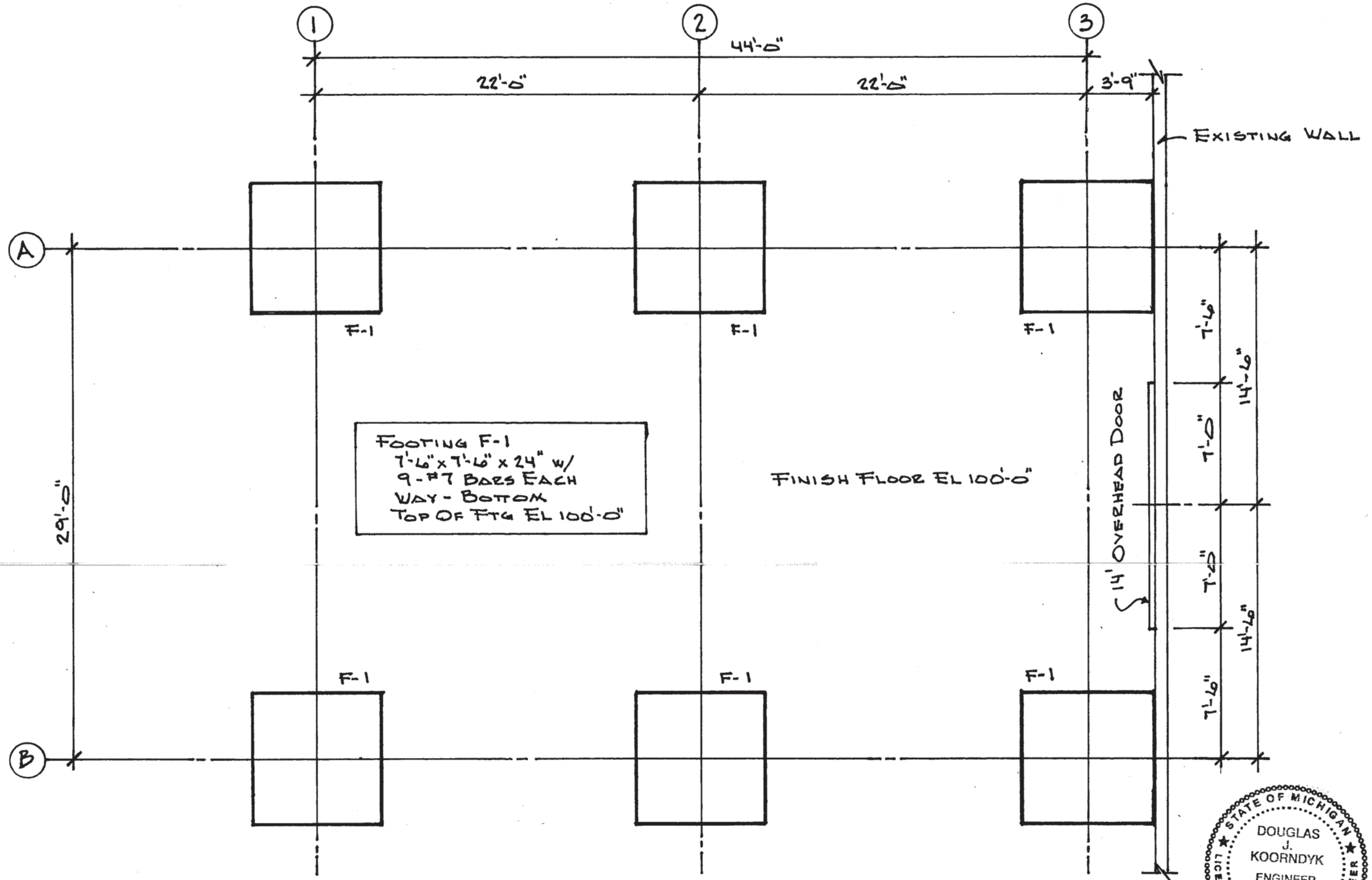
CONTRX INDUSTRIES
1377 Kimberly Dr., Neenah, WI 54956
www.contrx.com

DATE		BY
12/08/2016	1:60	NM

11T TRSG BRIDGE CRANE
22317

QUANTITY	DWG NO
2	54192-02

Client S.W. Betz
Project 22 Ton Crane Runway
Project No 10029 Contex 54192
Sheet F1 of F2 By DJK Date 11/28/16



22 TON CRANE RUNWAY FOUNDATION PLAN

STATE OF MICHIGAN
DOUGLAS J. KOORNDYK
ENGINEER No. 20018
LICENSED PROFESSIONAL ENGINEER
P.E.

Douglas J. Koorndyk, P.E.
Consulting Engineer

Client S.W. Betz
Project 22 Ton Crane Runway
Project No 10029 Contract 54192
Sheet F2 of F2 By DJK Date 11/28/16

CONCRETE CONSTRUCTION NOTES

1. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIRMENTS FOR REINFORCED CONCRTE" (ACI-318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI-301), LATEST EDITION.

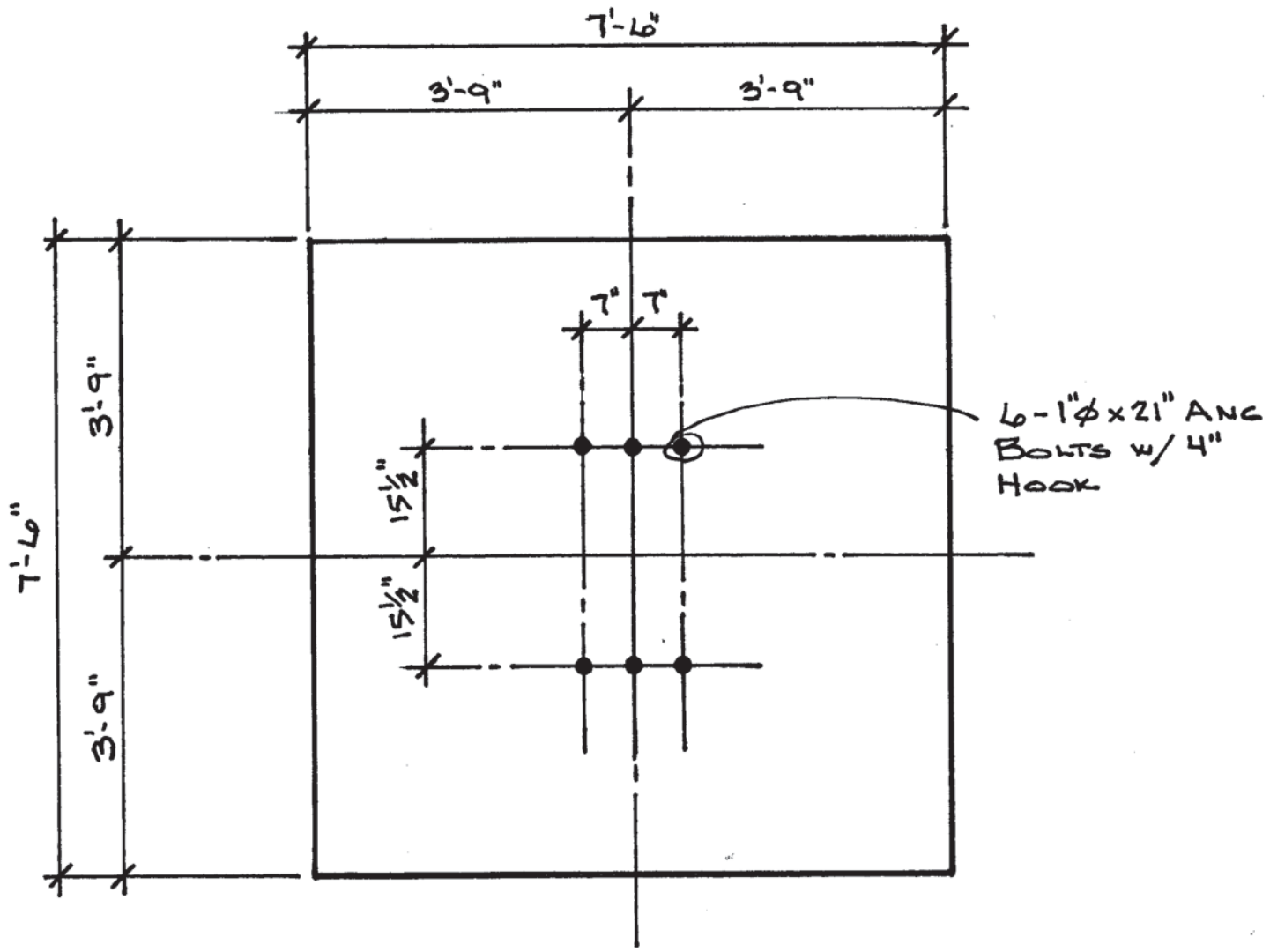
2. CONCRETE TYPE "A" SHALL BE USED FOR ALL FOUNDATIONS AND FOR FLOOR SLABS.

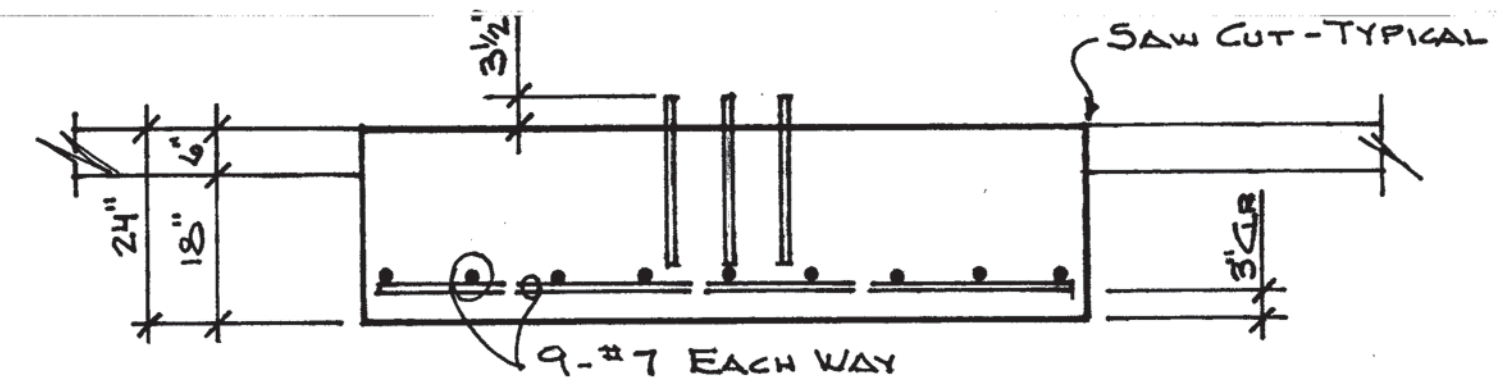
	TYPE "A"
ULTIMATE COMPRESSIVE STRENGTH	3,500 psi
SLUMP RANGE	4" +- 1"
MAXIMUM AGGREGATE SIZE	1"
ENTRAINED AIR	NONE
DRY WEIGHT PER CUBIC FOOT	150#

3. ALL CONCRETE FOOTINGS SHALL BE CURED FOR A MINIMUM OF 14 DAYS BEFORE CONTINUING WITH OTHER INSTALLATION WORK. ALL CONCRETE WORK SHALL BE CURED FOR A MINIMUM OF 28 DAYS BEFORE BEING USED IN DAILY OPERATIONS.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 (Fy=60 ksi). LAP CONTINUOUS BARS FOR TENSION LAP SPLICE PER ACI-318, UNLESS OTHERWIDE NOTED. COVER FOR CONCRETE REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI-318.

5. DESIGN IS BASED ON AN ALLOWABLE SOIL PRESSURE OF 2500 psf. IF SATISFACTORY SOIL PRESSURE CANNOT BE OBTAINED, PLEASE INFORM THE ENGINEER SO THAT FOOTINGS CAN BE RE-DESIGNED FOR THE SOIL PRESSURE AVAILABLE.





FOOTING F-1 PLAN VIEW AND SECTION

Douglas J. Koorndyk, P.E.
Consulting Engineer

STATE OF MICHIGAN
DOUGLAS J. KOORNDYK
ENGINEER No. 20018
LICENSED PROFESSIONAL ENGINEER