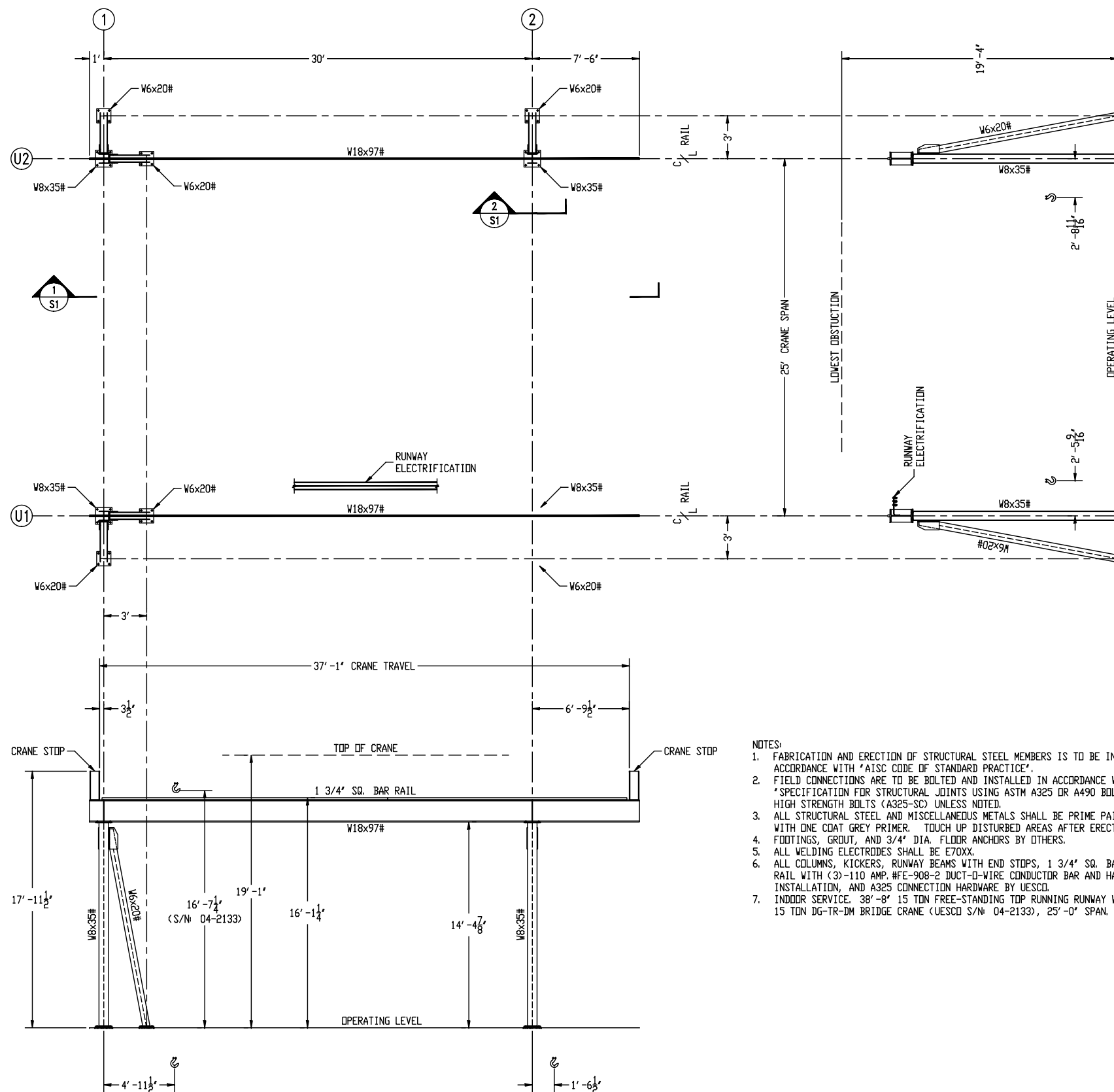
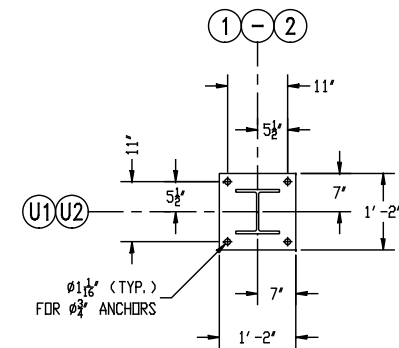


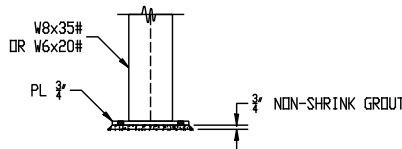


1 ELEVATION VIEW LOOKING AT LINE U2
S1

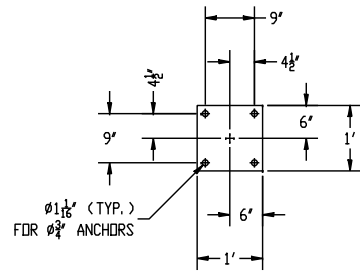
- NOTES:
1. FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS IS TO BE IN ACCORDANCE WITH 'AISC CODE OF STANDARD PRACTICE'.
 2. FIELD CONNECTIONS ARE TO BE BOLTED AND INSTALLED IN ACCORDANCE WITH 'SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 DR A490 BOLTS' HIGH STRENGTH BOLTS (A325-CS) UNLESS NOTED.
 3. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS SHALL BE PRIME PAINTED WITH ONE COAT GREY PRIMER. TOUCH UP DISTURBED AREAS AFTER ERECTION. FOOTINGS, GROUT, AND 3/4" DIA. FLOOR ANCHORS BY OTHERS.
 4. ALL WELDING ELECTRODES SHALL BE E70XX.
 5. ALL COLUMNS, KICKERS, RUNWAY BEAMS WITH END STOPS, 1 3/4" SQ. BAR RAIL WITH (3)-110 AMP. #FE-908-2 DUCT-0-WIRE CONDUCTOR BAR AND HARDWARE, INSTALLATION, AND A325 CONNECTION HARDWARE BY UESCO.
 7. INDOOR SERVICE, 38'-8" 15 TON FREE-STANDING TOP RUNNING RUNWAY WITH (1) 15 TON DG-TR-DM BRIDGE CRANE (UESCO S/N/ 04-2133), 25'-0" SPAN.



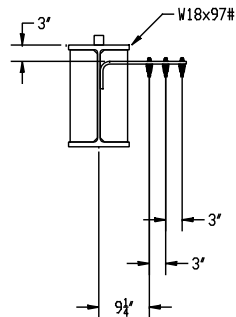
- W8x35# COLUMN BASEPLATE DETAIL
 S1 PL $3/4" \times 1'-2"$
 SCALE: $3/4" = 1'-0"$



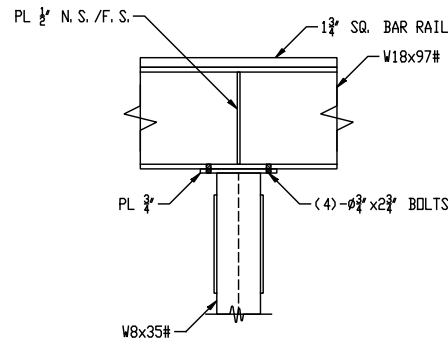

TYP. GROUT DETAIL
10-LOCATIONS
SCALE: 3/4"=1'-0"



W6x20# KICKER BASEPLATE DETAIL
PL 3/4"x1'-0"x1'-0"
SCALE: 3/4"=1'-0"




ELECTRIFICATION DETAIL
 SCALE: 3/4"=1'-0"



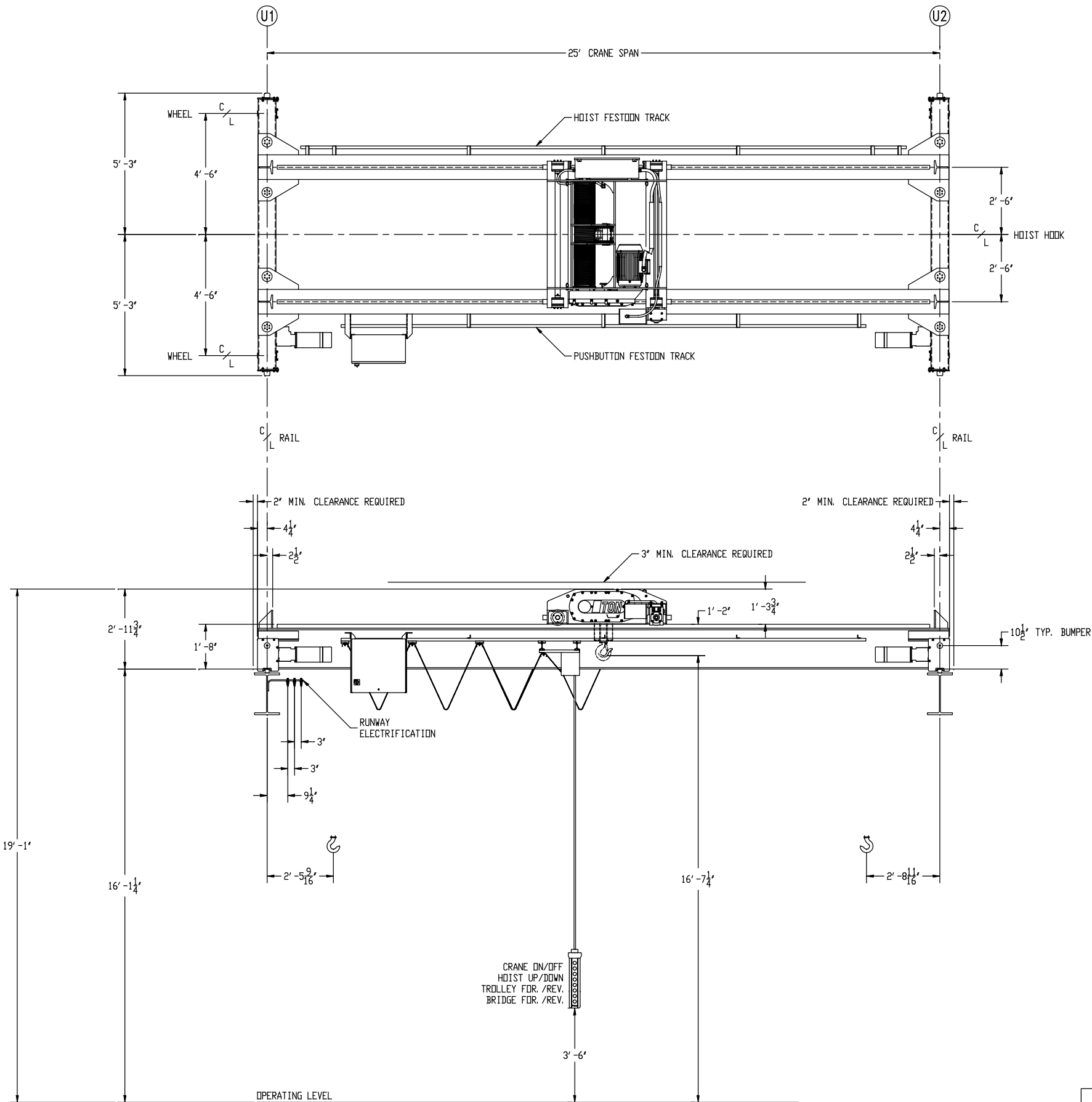
2 W18 RUNWAY TO W8 COLUMN CONNECTION
S1 4-LOCATIONS
SCALE: 3/4"=1'-0"

COLUMN BASE REACTIONS			
COLUMN MARK	 Py VERT (KIPS)	 Px LATERAL (KIPS)	 Pz LONGIT (KIPS)
CRN COL 1/ U1 & U2	+86.5 MAX -23.9 MIN		
LAT KIK 1/ U1 & U2	±31.2 MAX	±6.2 MAX	
LNG KIK 1/ U1 & U2	±21.0 MAX		±3.9 MAX
CRN COL 2/ U1 & U2	+84.3 MAX +3.8 MIN		
LAT KIK 2/ U1 & U2	±38.2 MAX	±7.9 MAX	

	REV. NO. 1	DATE: 8/17/04	BY: M. Z.
5908 W. 118th ST., WORTH, IL 60482 (708)385-7700 FAX: (708)385-6889			
IMPORTANT CHECK ALL DIMENSIONS VOLTAGE CAPACITY AND SPEEDS. RETURN ONE PRINT APPROVED WITH ALL BLANK DIMENSIONS FILLED IN. CERTIFIED FOR YOUR P.O. # 7447 OUR ORDER # Y19100 APPROVED BY _____ DATE _____	SCALED: 1/4" = 1' - 0" DATE: 8/11/04		
	LAYOUT OF 15 TON FS-TR RUNWAY SYSTEM FOR (1) 15 TON DG-TR-DM BRIDGE CRANE (UESCO S/N: 04-2133)		
	HANDLING SYSTEMS, INC. EMSI		
	DRAWING NUMBER 304-S1		

NOTE

Hoist dimensions preliminary until certified drawings are received from hoist manufacturer. If there is changes customer will be notified and new prints will be sent.



WEIGHTS
 CRANE WEIGHT (LESS HOIST) = 6,775#
 HOIST = 1,950#
 TRUCKS = 1,490#
 DRIVES = 380#
 DRIVE BEAM = 2,540#
 IDLER BEAM = 2,365#

MOTOR HORSEPOWER'S
 TOTAL BRIDGE HP. = 2 @ 1.5
 HOIST HP. = 15
 TROLLEY HP. = .75
 DISCONNECT FUSED = 35 AMPS.

TYPE CRANE
 TYPE HOIST
 CAPACITY
 BRIDGE GIRDER
 BRIDGE WHEELS
 RUNWAY SIZE
 HOIST SPEED
 TROLLEY SPEED
 BRIDGE SPEED
 POWER SUPPLY
 CONTROL CIRCUIT
 CONTROL LOCATION
 ADDITIONAL DATA

— DOUBLE GIRDER—TOP RUNNING—DUAL MOTOR
 — DETROIT CAT. NO.: D30T23—15M60 (BY H.S. & I.)
 — 15 TON
 — W18x76# w/1 3/4" SQ. BAR
 — 10" TREAD DIAMETER
 — 1 3/4" SQ. BAR ON W18x97#
 — 15 F.P.M. TWO STEP INVERTER CONTROL
 — 60 F.P.M. TWO STEP INVERTER CONTROL
 — 80 F.P.M. TWO STEP INVERTER CONTROL
 — 460/3/60
 — 110/1/60
 — PUSHBUTTON SUSPENDED FROM A SEPARATE TRACK
 — INDOOR SERVICE. (3)—200 AMP. #P—200—LT5 DUCT—O—WIRE
 TANDEM COLLECTORS. BRIDGE ELECTRIFICATION FLAT CABLE
 FROM STEEL TRACK.

WARNING

For proper operation of limit, hook block must come in contact with and raise the limit weight. Caution must be used to make sure that any sling chains, load bars, or the load itself does not come in contact with the underside of bridge girder or any rigid structure before limit is tripped. If this condition exists, lower limit weight to restrict up motion of hook. Failure to observe can cause damage to equipment and injury to personnel for which UESCO cannot be responsible. This warning must be conveyed to the first and subsequent purchasers, users, and/or operators.

IMPORTANT Upper limit is an emergency stop only and is NOT to be used as an automatic shut off during normal operation.

IMPORTANT
 CHECK ALL DIMENSIONS
 VOLTAGE CAPACITY AND SPEEDS.
 RETURN ONE PRINT APPROVED WITH
 ALL BLANK DIMENSIONS FILLED IN.
 CERTIFIED for your P.O. 7447
 OUR ORDER C19100
 APPROVED BY _____
 DATE _____

REV. NO. 1	DATE 8/17/04	BY M. Z.
5908 W. 118th ST., WORTH, IL 60482		
(708)385-7700	FAX (708)385-6889	
SCALE 1/2"=1'-0"	UESCO CRANES	DRAWN BY M. Z.
DATE 8/11/04		REVISED
15 TON DG-TR-DM BRIDGE CRANE (RUNWAY DRAWING 304-S1)		
HANDLING SYSTEMS, INC. EMSI		DRAWING NUMBER 2133