

# **ACE** INDUSTRIES, INC. **CRANES-HOISTS**

March 16, 2020

Re: QJK031620-1 – Adel Maintenance Building 5 Ton Crane & Runway with Installation

County Maintenance  
Wilson Tucker  
Adel, GA  
229-507-5700

Dear Wilson,

Thank you for the opportunity to quote your overhead material handling equipment. We have reviewed your request for proposal and respectfully submit this bid package for your review.

Ace was founded in 1932 and specializes in custom overhead bridge crane applications, as well as aftermarket service and inspections for cranes. Our experience with overhead material handling makes Ace uniquely qualified to perform the requirements of this project. This experience manifests itself by ensuring that the crane portion of this project is done correctly, efficiently and within budget.

Again, we appreciate the opportunity to provide this proposal package for your review. Please do not hesitate to contact me with any questions.

Sincerely,

*John Kerr*

John Kerr  
Territory Sales Representative  
912-486-4389  
[john.kerr@aceindustries.com](mailto:john.kerr@aceindustries.com)

**ACE** INDUSTRIES, INC.  
**CRANES-HOISTS**  
GEORGIA | ALABAMA | TENNESSEE | OHIO | N. CAROLINA

**ACE** INDUSTRIES, INC.  
**CRANES-HOISTS**

Norcross, GA; Braselton, GA; Thomasville, GA; Birmingham, AL; Decatur, AL;  
Nashville, TN; Knoxville, TN; Cincinnati, OH; Columbus, OH; Charlotte, NC

### Item 1: 5 Ton Crane

Bridge:	Capacity	5-Ton (10000 lbs.)
	Type	Top Running, Single Girder
	CMAA Classification	CMAA Class C, Indoor
	Girder	AISC Beam
	Span	49'-4"
	End Truck Type	Rotating Axle for ASCE 30# Rail
	End Truck Wheel Base	6'-3"
	Max Wheel Load	7045 lbs
	Bridge Weight	6377 lbs
	Wheel Diameter	115mm (4.5")
	Motor HP	2 @ 3/4 Hp
	Bridge Full Load Amps	12.6 Amps
	Bridge Speed	100 FPM VFD
	Control Type	Variable Frequency Drive
Hoist:	Hoist Capacity	5-Ton (10000 lbs.)
	Hoist Make & Model	Yale Global King
	Hoist Classification	FEM 2m (Similar to ASME H4 Duty)
	Available Lift	25'-0"
	Lift Speed	20 / 5 FPM
	Lift Controls	Magnetic Contactor 2-Speed
	Load Brake	None
	True Vertical Lift	No
Trolley:	Limit Switch	Upper Block Operated Switch
	Trolley Type	Integral
	Wheel Diameter	4"
	Traverse Speed	55 / 18 FPM
Controls:	Trolley Controls	Magnetic Contactor 2-Speed
	Crane Voltage	460/3/60
	Control Voltage	120/3/60
	Pushbutton Station	Included
Coating System:	Radio Control System	Not Included
	Surface Preparation	SSPC-SP3 Power Tool Cleaned
	Coating	Single Coat, Self-Priming Enamel, Safety Yellow

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## Item 2: 5 Ton Free Standing Runway

Structure	Capacity	10,000 lbs
	Type	Free Standing
	Length	37
	Number of Bays	1
Foundation	Footers Required	6" min. of Concrete
	Footers Included	No
Columns	Type	Moment Columns
	Number of Columns	4
Runway Beams	Type	AISC Sections
	Number of Beams	2
Rail	Type	ASCE Rail
	Size	ASCE 30 # Rail
	Rail Splices	Mechanical
	Rail Clips	J-Bolts
	Rail Length	2 runs @ 37'
Tie Backs	Lateral Style	Flexible
	Number of Lateral Tie Backs	4
End Stops	Type	Wide Flange
	Number of Stops	4
Coating:	Primer Type	Gray Primer or Red Oxide
	Paint Thickness	3-4 Mils
Electrification	Conductor Bar	110 Amp 4 Bar System
	Length of Bar	37'

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## **Item : Installation, Equipment, Start-up, Inspection, & Load-test**

**Work Scope:** Drive to site. Check in with site contact and review job scope. Perform Job Safety Hazard Analysis on work area, tools and equipment and review any concerns with customer. Lay-Out system and verify location with customer. Install Runway, Crane, and Hoist/Trolley. Perform start-up and initial inspection. Review operations with customer and perform load test. Clean work area and return to shop.

- Ace Industries will install the following equipment: **5 Ton Crane & Runway**
- Ace Industries will comply with specifications recommended by CMAA as to the straightness, span, and elevation of the runway system(s). Please see the attached CMAA specification, table 1.4.1-1.
- Ace Industries will install the conductor bar in accordance with the manufacturer's recommendations. The customer is responsible for providing an electrical disconnect within 3 feet of the runway.
- Ace Industries will start-up the above equipment. Start-up included wiring the equipment, setting all limit switches, and reeving the lower block if necessary. Ace will provide a no load operational test of the equipment to assure that it functions properly and does not contact any obstructions. If power is not available to operate the equipment during installation, Ace will negotiate a charge on a time and material basis for the second mobilization to start up the equipment.
- Ace Industries require free and clear access for offloading and installation of the material quoted. Ace will perform all work during normal working hours Monday thru Friday. Gas powered welders and cutting torches will be used. All work is to be performed in one single uninterrupted mobilization. If installation is delayed, Ace Industries will negotiate a charge at an hourly rate plus mileage and equipment.
- Installation is estimated using the following:
  - Pre-Installation Survey: (1) Included to verify site conditions
  - Estimated Duration: 3 Days Onsite for Mechanical Installation
  - Installation Crew: 3 Persons
  - Working Hours: 10 Hour Work Day Standard
  - Travel & Expenses: Included
  - Equipment Included: Lull  
Scissor Lift  
Test Weights

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**Investment Summary:**

Item	Description	Tax & Freight	Total
1	5 Ton 49'-4" Crane	Not Included	\$ 27,480.95
2	37' Free Standing 5 Ton Runway	Not Included	\$ 18,275.00
3	Installation, Inspection, & Load Test	N/A	\$ 12,603.33
<b>Total:</b>			<b>\$58,359.29</b>

- Labor quoted Monday – Friday 7am – 7pm.
- Signed Submittals required
- Customer to offload system and note on Bill of lading if any physical damage or distressed packaging is found on the Crane & Runway System.
- Ace to perform Pre-Job Job Safety Hazard Analysis. PPE: Hard Hat, Safety Glasses, Ear Plugs, Steel Toe Shoes, Double Lanyard and Body Harness.

**Quote Validity:**

Pricing is subject to change. Baseline quote is valid for thirty (30) business days from the date of issuance. All orders may be subject to pricing increases due to market fluctuations.

**Terms & Conditions:**

Delivery: Approval Drawings: 5-10 business days upon receipt of written purchase order  
Equipment Delivery: 10 - 12 weeks from receipt of final signed approval drawings

Tax: Not Included

Freight: Not Included

Payment: 30% Down  
40% Due Before Shipping of Materials  
Balance Due Net 30 after Completion

\*All orders subject to Ace Industries Standard Terms and Conditions

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#### **Standard Terms and Conditions:**

- Warranty: One (1) year Ace Industries STANDARD WARRANTY.
- All pipes, lights, structures, etc. that obstruct the crane and/or runway path shall be removed by customer prior to installation.
- Ace Industries will work to complete this job during normal business hours. Installation is based on work performed during regular straight time hours, 8AM to 4PM, Monday through Friday. Work delayed by inability to freely access site or request for non-standard work hours shall result in additional charges.
- If electrical service is not available when installation is completed and a return trip is required to start-up and test the crane, the trip will be invoiced at standard service rates plus mileage and per diem if required.
- Customer shall maintain a safe work area around work site during installation of cranes and runways.
- Customer to supply main line power with junction box and a fused and lockable floor mounted disconnect to each runway system within 3' of the location of the conductor bar.
- Field Check: If requested, Ace Industries will perform a field check of any existing columns and runway systems to verify clearances at an additional charge.
- Drawings: Ace Industries shall provide clearance approval drawings for cranes, runways and other equipment. Fabrication will not commence until signed copies of all approval drawings are received.
- Customer shall be held responsible for existing building footers, foundation loads, and pre-existing runway systems.
- Customers supplying lifts and/or mobile equipment shall be held liable for the appropriate capacities and safety of all supplied equipment.
- A down payment is required with a purchase order. Approval drawings will be sent within 10 working days of receipt of purchase order. Upon receipt of down payment and signed approval drawing(s), Ace will schedule all manufacturing required. Manufacturing will not commence without receipt of down payment.
- Cancellations or Returns: All products included on this quote are considered custom and are not returnable. Any orders cancelled prior to order completion will be subject to a cancellation charge including all costs incurred up to the point of cancellation.
- All orders become effective upon acceptance at the corporate headquarters of Ace Industries. All quoted prices expire thirty (30) days from the quote date. No quotation is effective unless signed by an authorized representative of Ace Industries, Inc. No modifications or additional conditions, whether written or oral, will be binding on Ace Industries, Inc. unless agreed to in writing and signed by an authorized representative of Ace Industries, Inc.
- All of the information contained in this proposal is confidential and has been prepared for your exclusive use in considering the purchase of the equipment described herein. Transmission of any part of this information or use for other reasons than those described above is prohibited without written consent from Ace Industries, Inc.

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**GENERAL NOTES:**

1. ALL DESIGN, FABRICATION AND ERECTION OF THE RUNWAY SYSTEM CONFORMS TO THE FOLLOWING:
  - a. CRANE MANUFACTURERS ASSOCIATION OF AMERICA (CMAA) LATEST EDITION.
  - b. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7.10).
  - c. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (MANUAL OF STEEL CONSTRUCTION, 9th EDITION).
  - d. CRANE MANUFACTURERS ASSOCIATION OF AMERICA (CMAA) LATEST EDITION.
  - e. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-11).
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL CONFORMS TO THE FOLLOWING MATERIAL SPECIFICATIONS:
  - a. STRUCTURAL STEEL: ASTM A572 (Fy = 50 ksi).
  - b. C AND MC SHAPES: ASTM A572 (Fy = 50 ksi).
  - c. OTHER STRUCTURAL SHAPES, PLATES, AND BARS: ASTM A36 (Fy = 36 ksi).
  - d. WELD ELECTRODES SHALL COMPLY WITH AWS D1.1.
  - e. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
  - f. NUTS FOR HIGH STRENGTH BOLTS USED IN CONNECTIONS: ASTM A502 Gr. C.
  - g. ANCHOR ROD MATERIAL (UNLESS NOTED OTHERWISE): ASTM F1554 Gr. 36.

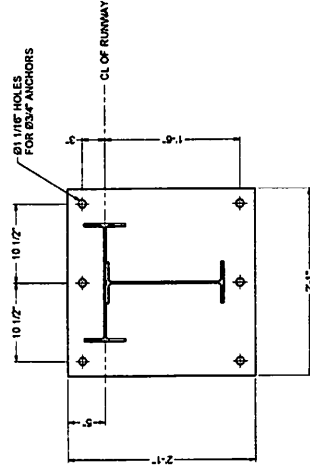
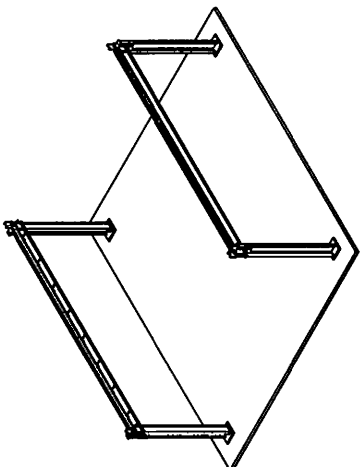
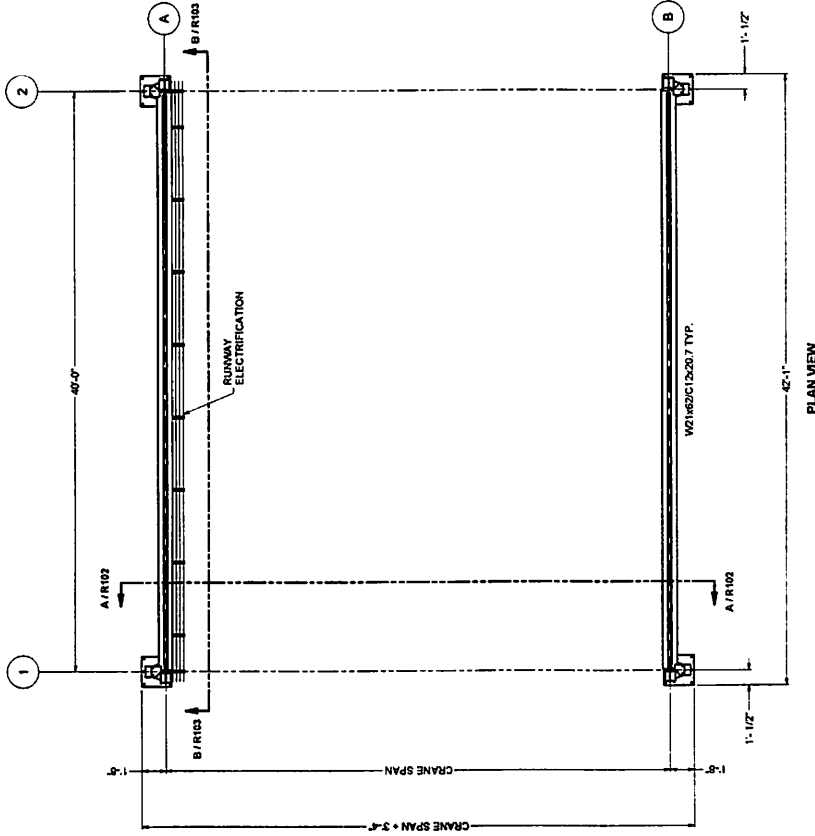
**FOUNDATION NOTES:**

1. RUNWAY FOUNDATION SHALL HAVE AS A MINIMUM THE FOLLOWING CHARACTERISTICS:
  - a. 6" THICK REINFORCED CONCRETE SLAB ON GRADE IN GOOD CONDITION.
  - b. MINIMUM CONCRETE STRENGTH (FC = 3000 PSI).
  - c. ADEQUATE SOIL SUBGRADE SUPPORT OF THE SLAB ON GRADE.
2. CUSTOMER IS RESPONSIBLE FOR THE ADEQUACY OF THE CONCRETE SLAB ON GRADE TO SUPPORT THE LOADS INDICATED ON THE DRAWINGS. ACE INDUSTRIES IS RESPONSIBLE ONLY FOR THE DESIGN OF THE ANCHORAGE OF THE COLUMN BASE PLATES TO THE CONCRETE FOUNDATION.
3. IF THE AFORESAID FOUNDATION REQUIREMENTS ARE NOT ACHIEVED, THE CUSTOMER SHALL PROVIDE A FOUNDATION DESIGN FOR THE RUNWAY. THE FOUNDATION WILL BE DESIGNED AS AN ISOLATED SPREAD FOOTING. ACE INDUSTRIES WILL NOT BE RESPONSIBLE FOR A FOUNDATION DESIGN THAT IS INTEGRATED WITH EXISTING FOUNDATIONS.

**PAINT SPECIFICATION:**  
 1. SURFACE PREP SSPC-SP3 POWER TOOL CLEANED.  
 2. ONE COAT OF INDUSTRIAL GRAY PRIMER (STD) OR RED OXIDE (BY REQUEST).

SELECT COLOR \_\_\_\_\_

<b>DRAWING FOR APPROVAL</b>	
PLEASE REVIEW AND COMMENT ON THE CONTENTS OF THIS DRAWING. CHECK THE APPROPRIATE BOX BELOW AND SIGN BEFORE RETURNING ONE COPY TO THE SUBMITTER.	
<input type="checkbox"/> APPROVED AS SUBMITTED	<input type="checkbox"/> APPROVED AS NOTED
<input type="checkbox"/> REJECTED, RESUBMIT WITH CHANGES	
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DATE _____	

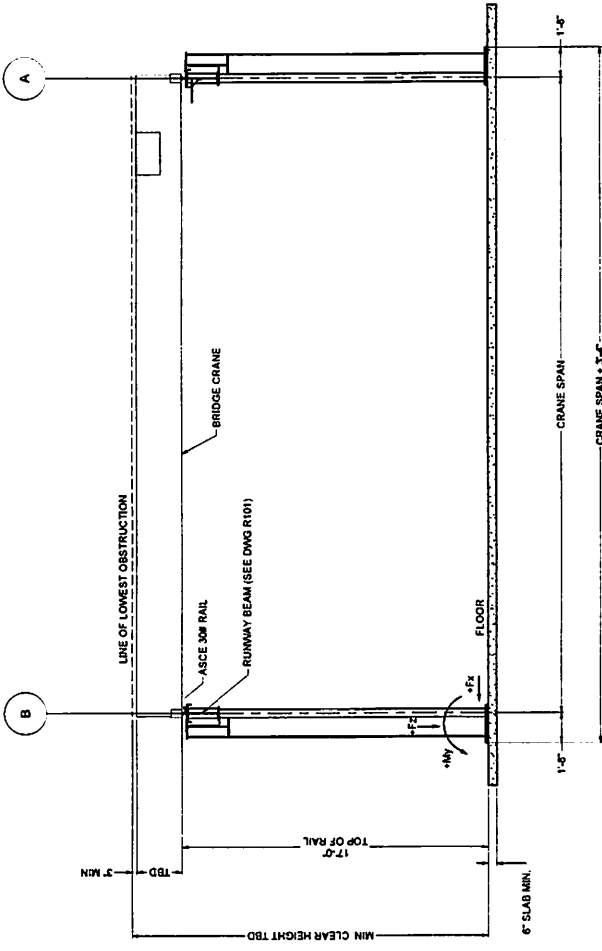


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	Revision: _____	Revision: _____
	Date: 4/22/2018	Date: _____
	Drawn By: DMS	Drawn By: _____
	Eq. Approved By: Wiles McLean	Eq. Approved By: _____
	Sales Person: _____	Sales Person: _____

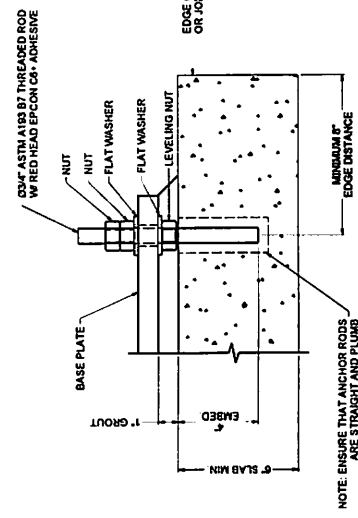
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5-TON FREESTANDING RUNWAY  
 TRPS 54017  
 R101

SHEET 1 OF 3 - ANSHD



SECTION A-A  
REF. DRAWING R101



ANCHOR BOLT INSTALLATION

COLUMN BASE REACTIONS (UNFACTORED)		
Load Direction	Load Case 1 (Max LL)	Load Case 2 (Min LL)
F <sub>x</sub> (DL)	1.1 kips	5.1 kips
F <sub>x</sub> (LL)	14.1 kips	±1.42 kips
F <sub>y</sub> (LL)	±1.42 kips	±1.42 kips
F <sub>y</sub> (LL)	±1 kips	±1 kips
M <sub>x</sub> (LL)	±1.17 ft-kips	±1.17 ft-kips
M <sub>y</sub> (LL)	±1.24 ft-kips	±1.24 ft-kips

NOTE: LOAD CASES SHOWN SHALL BE CONSIDERED INDEPENDENTLY IN THE ANALYSIS AND DESIGN OF THE FOUNDATION SUPPORT. LOAD DIRECTION IS AS ILLUSTRATED ON THE DRAWING. ± INDICATES LOAD CAN OCCUR IN EITHER DIRECTION.

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SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

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5-TON FREESTANDING RUNWAY

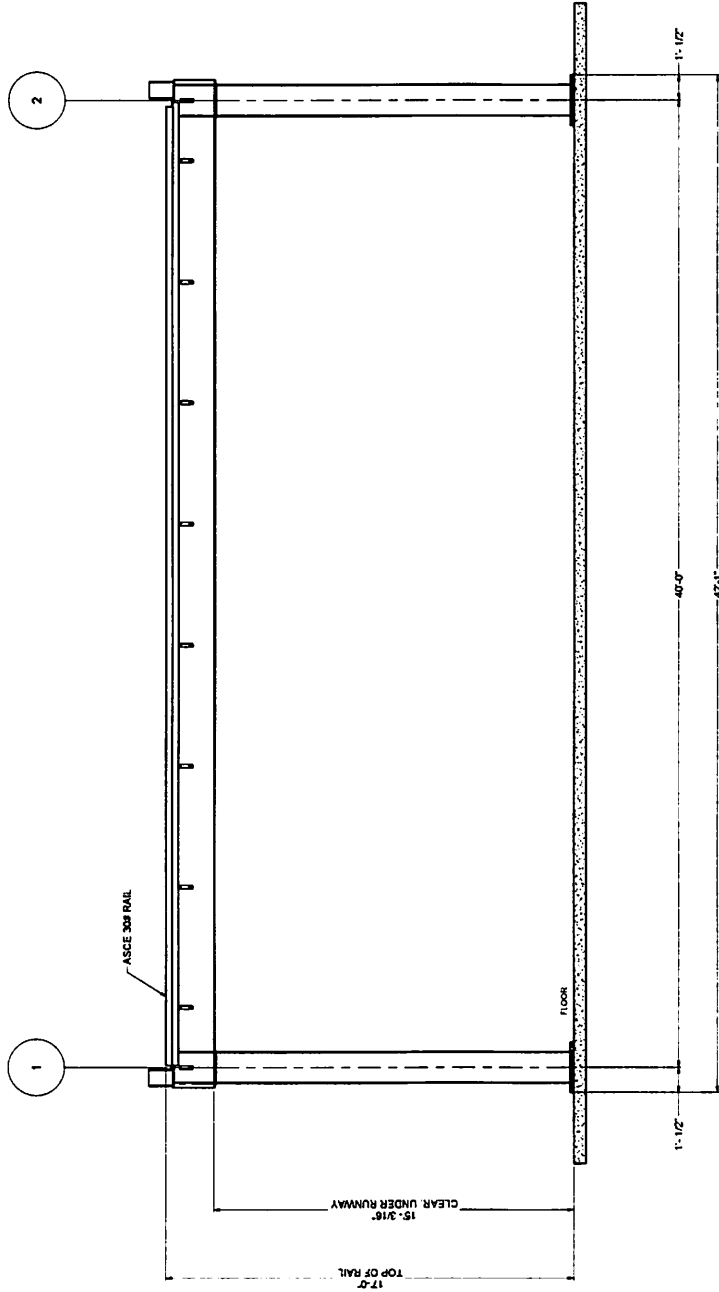
TRFS 54017

R102

SHEET 2 OF 3 - ANSLD

Crane Number:	-
Project Number:	-
Revised:	A
Date:	4/22/2018
Drawn By:	DMS
Eng. Approved By:	Wes McLean
Scale:	As Shown

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SECTION B-B  
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	Project Number	-
	Revision	A
	Date	4/2/2018
	Drawn By	DMS
	Eng. Approved By	Wes McLean
	Sales Person	-

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5-TON FREESTANDING RUNWAY  
TRFS 54017  
R103  
SHEET 3 OF 3, ANSHD

