

July 19, 2013

To: Plan Holders for Improvements to the
Springfield-Branson National Airport
Springfield, Missouri
MoDOT Project No. AIR 126-092A1
West Kearney Terminal Parking Lot and GA Redevelopment

Transmitted herewith is **Addendum No. 1** to the Contract Documents, Plans and Specifications dated July 8, 2013 for Improvements to the Springfield-Branson National Airport, Springfield, Missouri, MoDOT Project No. AIR 126-092A1.

SCHEDULE I:

General Aviation Apron Redevelopment

SCHEDULE II:

West Kearney Terminal Parking Lot

Sincerely,

Jviation, Inc.



Mark J. Lovato, P.E.
Project Manager



**ADDENDUM NO. 1
TO
CONTRACT DOCUMENTS, PLANS AND SPECIFICATIONS
FOR IMPROVEMENTS TO THE
SPRINGFIELD-BRANSON NATIONAL AIRPORT
SPRINGFIELD, MISSOURI
MoDOT PROJECT NO. AIR 126-092A1**

To All Bidders: You are requested to make all changes and/or additions contained in this addendum to the Bidding Documents. Failure to acknowledge this Addendum in Proposal shall result in rejection of bid. Bidders are informed that the above referenced Contract Documents, Plans and Specifications are modified as follows as of July 19, 2013:

1. Clarifications

1. An asbestos inspection was conducted by Security Storage Service, Inc. on the buildings to be removed. The pipe wrap on the exhaust duct of the generator in the electric building tested positive for asbestos. Removal of the asbestos material will be considered incidental to P-100a. No other items were suspect for asbestos content in any of the other buildings to be removed. Please see the attached letters from Security Storage Service, Inc.
2. Based on the right of way of West Kearney Street, a surveyed legal description for the area to be relinquished by MoDOT will have to be provided by the Contractor. This will be considered incidental to P-100a Mobilization. Please see the attached MoDOT R.O.W Relinquishment Exhibit.
3. The Traffic Barricades used for Traffic Control on the parking lot shall be lighted Traffic Barricades.

2. Contract Documents

Section: 1 (Volume 1)
Page: 1-1
Revision: Line 133 has been revised to read as follows: "A prebid conference will be held on Monday, July 22, 2013 at the Board Room (M473), 2300 North Airport Boulevard, at 3:00 p.m. All bidders are required to examine the site to become familiar with all site conditions." This sheet is attached as page Section 1-1.

Section: B (Volume 1)
Page: B 2.1 to 2.18
Revision: The Bid Proposal has been revised to reflect the adjusted items. Items under P-150, MO-110 and Division 26 were adjusted as part of Addendum No. 1. The Bid Proposal has been re-issued in its entirety and is attached at the back of this document.

3. Technical Specifications

Section: Appendix P
Page: All
Revision: This appendix has been revised to reflect the revised bid items. Appendix P has been re-issued in its entirety and is attached at the back of this document.

4. Questions

Questions will only be taken via written format to Jviation, Inc. until Thursday August 1, 2013 5:00 p.m. (CST).

5. PLANS

Sheet Name: G002
Sheet No.: 2 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: G003
Sheet No.: 3 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: G012
Sheet No.: 12 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: C111-116
Sheet No.: 24-29 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: C301
Sheet No.: 42 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: C701
Sheet No.: 91 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: C704
Sheet No.: 94 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: C750-752
Sheet No.: 98-100 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: C808
Sheet No.: 108 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: E001
Sheet No.: 121 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: E201-E206
Sheet No.: 122-127 of 130
Revision: See attached revised sheet dated 07/19/2013.

Sheet Name: E350-353
Sheet No.: 130-130A of 130
Revision: See attached revised sheet dated 07/19/2013.

**** END OF ADDENDUM NO. 1 ****

Security Storage Service, Inc.

7001 Merion Drive
Nixa-Fremont Hills MO 65714

Telephone 417-725-4611
Fax 417-724-0655

July 17, 2013

Mr. Shawn Schroeder, A.A.E.
Springfield-Branson National Airport
2300 N. Airport Blvd, St. 100
Springfield MO 65802

Dear Sirs:

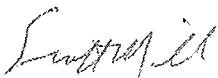
Pursuant to our agreement and instructions, an asbestos inspection **of three toll booth structures located at the Springfield-Branson National Airport, Springfield, MO**, was conducted on **July 10, 2013**. The inspector was Barry Mills, Certificate # 7034042313MOIR1783, who has twenty-five year's experience in this specific field. The inspection includes observation and bulk sampling of area and material suspect for asbestos content. Bulk samples taken are referred to San-Air Laboratories, a nationally accredited laboratory for analysis. Chain of custody documentation is preserved.

Observation and sampling is limited to those areas visible and accessible under normal usages condition for the structure. Should additional areas, which might be suspect, become exposed during demolition, renovation, or alteration, we will return to inspect these as desired.

This structure had a flat roof, metal walls and concrete flooring. **No items were suspect for asbestos content.**

We appreciate the opportunity to be of service.

Sincerely,



Scott Mills
Security Storage Service

Security Storage Service, Inc.

7001 Marion Drive
Nixa-Fremont Hills MO 65714

Telephone 417-725-4611
Fax 417-724-0655

July 17, 2013

Mr. Shawn Schroeder, A.A.E.
Springfield-Branson National Airport
2300 N. Airport Blvd, St. 100
Springfield MO 65802

Dear Sirs:

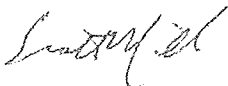
Pursuant to our agreement and instructions, an asbestos inspection **of the emergency generator building located at the Springfield-Branson National Airport, Springfield, MO**, was conducted on **July 10, 2013**. The inspector was Barry Mills, Certificate # 7034042313MOIR1783, who has twenty-five year's experience in this specific field. The inspection includes observation and bulk sampling of area and material suspect for asbestos content. Bulk samples taken are referred to San-Air Laboratories, a nationally accredited laboratory for analysis. Chain of custody documentation is preserved.

Observation and sampling is limited to those areas visible and accessible under normal usages condition for the structure. Should additional areas, which might be suspect, become exposed during demolition, renovation, or alteration, we will return to inspect these as desired.

This structure had a flat roof, brick walls and concrete flooring. **No items were suspect for asbestos content.**

We appreciate the opportunity to be of service.

Sincerely,



Scott Mills
Security Storage Service

Security Storage Service, Inc.

7001 Merion Drive
Nixa-Fremont Hills MO 65714

Telephone 417-725-4611
Fax 417-724-0655

July 17, 2013

Mr. Shawn Schroeder, A.A.E.
Springfield-Branson National Airport
2300 N. Airport Blvd, St. 100
Springfield MO 65802

Dear Sirs;

Pursuant to our agreement and instructions, an asbestos inspection **of the electrical building located at the Springfield-Branson National Airport, Springfield, MO**, was conducted on **July 10, 2013**. The inspector was Barry Mills, Certificate # 7034042313MOIR1783, who has twenty-five year's experience in this specific field. The inspection includes observation and bulk sampling of area and material suspect for asbestos content. Bulk samples taken are referred to San-Air Laboratories, a nationally accredited laboratory for analysis. Chain of custody documentation is preserved.

Observation and sampling is limited to those areas visible and accessible under normal usages condition for the structure. Should additional areas, which might be suspect, become exposed during demolition, renovation, or alteration, we will return to inspect these as desired.

This structure had a flat roof, brick walls and concrete flooring. **The pipe wrap on the exhaust duct of the generator was sampled for asbestos content, and tested POSITIVE.** The lab report is attached.

We appreciate the opportunity to be of service.

Sincerely,



Scott Mills
Security Storage Service



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

13015187

FINAL REPORT

Name: Security Storage Services Inc.
Address: 7001 Merion Dr
Nixa, MO 65714

Project Number:
P.O. Number:
Project Name: Springfield - Branson Airport

Collected Date: 7/10/2013
Received Date: 7/12/2013 10:20:00 AM
Report Date: 7/16/2013 4:20:57 PM
Analyst: Tallert, Jonathan G.

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71001 / 13015187-001 Old Fire Station	White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71002 / 13015187-002 Old Fire Station	Black Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71003 / 13015187-003 Old Fire Station	Green Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71004 / 13015187-004 Old Fire Station	White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71005 / 13015187-005 Electrical Building	Grey Fibrous Homogeneous		15% Other	85% Chrysotile

Certification

Signature:

Date: 7/16/2013

Reviewed:

Date: 7/16/2013

Security Storage Service, Inc.

7001 Merion Drive
Nixa-Fremont Hills MO 65714

Telephone 417-725-4611
Fax 417-724-0655

July 17, 2013

Mr. Shawn Schroeder, A.A.E.
Springfield-Branson National Airport
2300 N. Airport Blvd, St. 100
Springfield MO 65802

Dear Sirs;

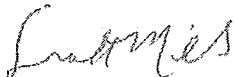
Pursuant to our agreement and instructions, an asbestos inspection **of the commercial former fire station structure located at the Springfield-Branson National Airport, Springfield, MO,** was conducted on **July 10, 2013**. The inspector was Barry Mills, Certificate # 7034042313MOIR1783, who has twenty-five year's experience in this specific field. The inspection includes observation and bulk sampling of area and material suspect for asbestos content. Bulk samples taken are referred to San-Air Laboratories, a nationally accredited laboratory for analysis. Chain of custody documentation is preserved.

Observation and sampling is limited to those areas visible and accessible under normal usages condition for the structure. Should additional areas, which might be suspect, become exposed during demolition, renovation, or alteration, we will return to inspect these as desired.

Of the materials observed and sampled at this location, **no items were found to be positive for asbestos content.**

We appreciate the opportunity to be of service.

Sincerely,



Scott Mills
Security Storage Service

Security Storage Service, Inc.

7001 Merion Drive
Remond Hills MO 65714

Telephone 417-725-4611

July 17, 2013

SAMPLING CHECKLIST

Location: "Old Fire Station"

Springfield-Branson National Airport

From: Scott Mills, Security Storage Service

Date: July 17, 2013

Client: Shawn Schroeder, Springfield-Branson Airport

Exterior Description: Commercial fire station building with a flat roof; brick walls; concrete flooring; fiberglass insulation.

Interior description: Tile ceilings; block walls; tile, carpet, ceramic, concrete, and linoleum floors; central HVAC

The following samples were taken for asbestos content:

Sample #	Location	Result
A71001	2'x 4' Ceiling tile, kitchen	Negative
A71002	Vinyl flooring, upstairs office, brown	Negative
A71003	Vinyl flooring, upstairs office, green	Negative
A71004	2'x 2' Ceiling tile, upstairs office	Negative

The Lab report follows.



Scott Mills
Security Storage Service



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

13015187

FINAL REPORT

Name: Security Storage Services Inc.
Address: 7001 Merion Dr
Nixa, MO 65714

Project Number:
P.O. Number:
Project Name: Springfield - Branson Airport

Collected Date: 7/10/2013
Received Date: 7/12/2013 10:20:00 AM
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Analyst: Tallert, Jonathan G.

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71001 / 13015187-001 Old Fire Station	White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
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SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71003 / 13015187-003 Old Fire Station	Green Non-Fibrous Homogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71004 / 13015187-004 Old Fire Station	White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
A71005 / 13015187-005 Electrical Building	Grey Fibrous Homogeneous		15% Other	85% Chrysotile

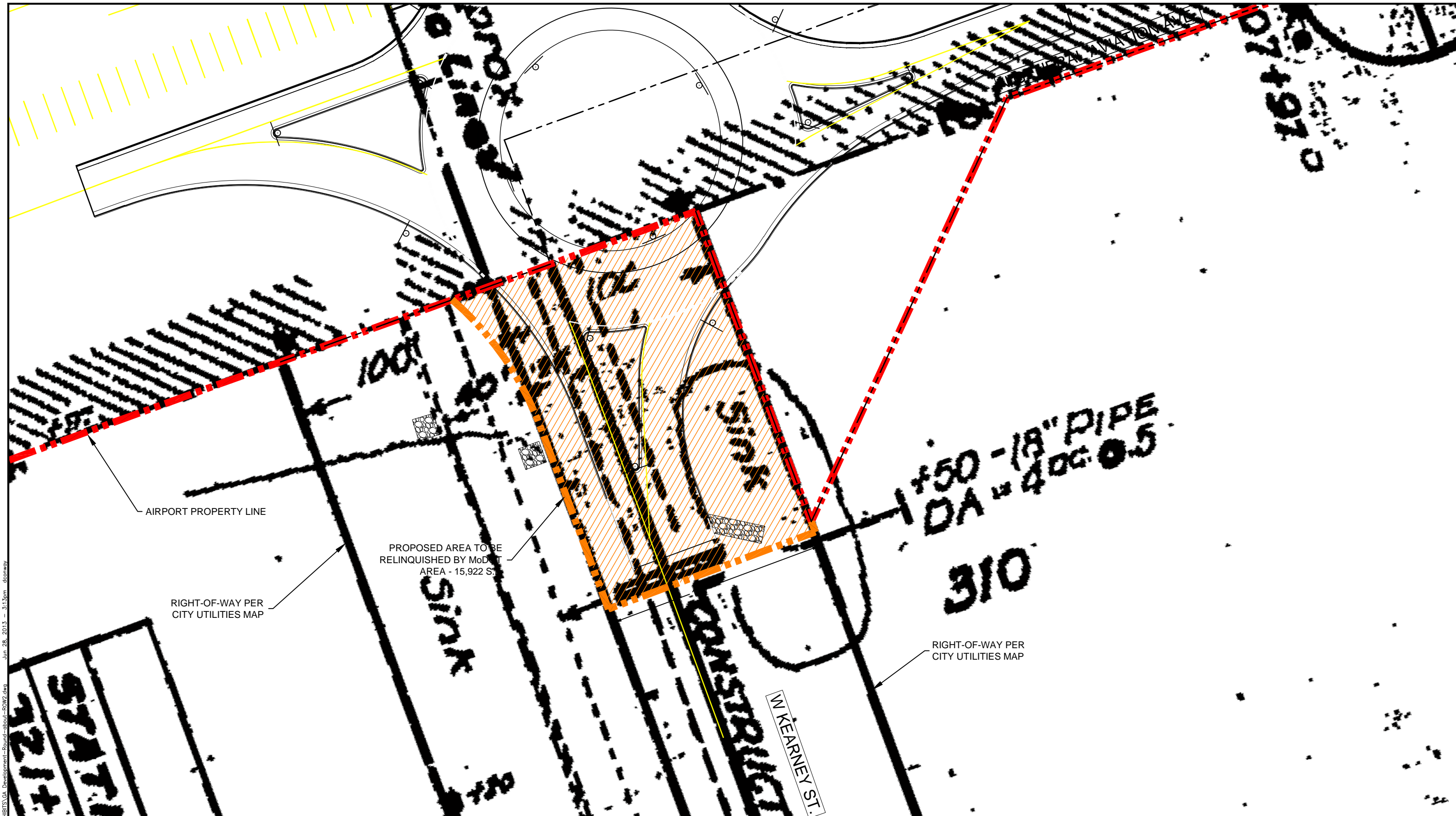
Certification

Signature:

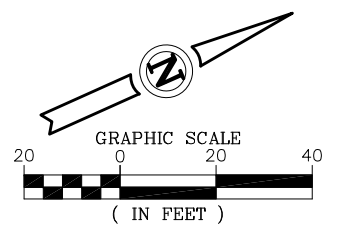
Date: 7/16/2013

Reviewed:

Date: 7/16/2013



I:\Projects\SGF\CAD\GA_Development\Roundabout\ROWZ.dwg Jun 28, 2013 3:13pm dcanway



Springfield-Branson
 NATIONAL AIRPORT

JVIATION®
 931 WILDWOOD DRIVE • SUITE 101 • JEFFERSON CITY, MO 65109
 PHONE: 573-636-3200 • FAX: 573-636-3201
 WWW.JVIATION.COM

SPRINGFIELD-BRANSON
 NATIONAL AIRPORT
 GA DEVELOPMENT
 PROPOSED ROUNDABOUT
 MoDOT R.O.W. RELINQUISHMENT
 DATE: JUNE 27, 2013

106 **SECTION 1**
107 **NOTICE TO BIDDERS**

108 City of Springfield
109 Springfield-Branson National Airport
110 State Block Grant Project No. AIR 126-092A1
111
112
113

114 Sealed bids subject to the conditions and provisions presented herein will be received until 4:00 p.m.,
115 Monday, August 5, 2013, and then publicly opened and read by Board Room (M473), for furnishing all
116 labor, materials, equipment and performing all work necessary to West Kearney Terminal Parking Lot
117 and GA Redevelopment.

118
119 A complete set of Specifications and Contract Documents can be downloaded from Jviation, Inc.'s bid
120 site (<http://bid.jviation.com>), beginning on July 8, 2013. In order to submit a responsive bid as a Prime
121 Contractor and to receive all necessary addendum(s) for this project, you must be on the Planholder's
122 List. To view all planholder documents (contract documents, plans and addendums) you must fill out the
123 online form located at (<http://www.jviation.com/bidrequest>). By filling out and submitting this form, you
124 agree to be publicly listed on the bid site with your contact information as a planholder for all projects
125 requested. It is the planholder's responsibility to review the site for addendums and changes before
126 submitting their proposal. For additional information, please contact us via email at
127 bidinfo@jviation.com.

128
129 *Note that contractors will NOT be automatically added to new projects. You will need to re-submit the
130 online form for access to new projects. Once granted access, additional projects will use your same login
131 credentials. Note: Plan ahead when submitting the online request form and allow up to 2 business days
132 for approval and access to projects.

133
134 A prebid conference will be held on Monday, July 22, 2013 at the Board Room (M473), 2300 North
135 Airport Boulevard, at 3:00 p.m. All bidders are required to examine the site to become familiar with all
136 site conditions.

137
138 **Contract Work Items.** This project will involve the following work items and estimated quantities.
139 Prospective bidders are hereby advised that the quantities indicated herein are approximate and are
140 subject to change.

141

Summary of Approximate Quantities				
Item	Description	Unit	Schedule I	Schedule II
MO-152a	Class A Excavation	CY	71,000	2,700
MO-155a	Fly Ash Treated Subgrade – 12 inch	SY	20,700	-
MO-209a	Crushed Aggregate Base Course	SY	3,600	10,600
MO-401Sa	Mineral Aggregate (BP-1)	TON	1,150	3,150
MO-401Sb	Bituminous Asphalt Cement (BP-1)	TON	75	205
P-203a	Bituminous Drainable Layer (4-inch)	SY	4,300	-
P-203b	Bituminous Drainable Layer (6-inch)	SY	16,400	-
P-501a	Portland Cement Concrete Pavement (6-inch)	SY	2,900	-
P-501b	Portland Cement Concrete Pavement (11-inch)	SY	14,550	-

BID PROPOSAL SUMMARY

Bidder Name: _____

SCHEDULE I TOTAL

\$ _____

SCHEDULE II TOTAL

\$ _____

TOTAL ALL SCHEDULES

\$ _____

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Item No.	Description	Units	Estimated Quantity	Unit Price	Total
BASE BID ITEMS					
MO-100a	Mobilization	LS	1	\$	\$
MO-110a	1" PVC Conduit, Installed in Trench (DEB)	LF	1,000	\$	\$
MO-110d	2" PVC Conduit, Installed in Trench (DEB)	LF	150	\$	\$
MO-110e	2-4" PVC Conduit, Installed in Trench (DEB)	LF	1,600	\$	\$
MO-110f	4-3" PVC Conduit, Installed in Trench (DEB)	LF	70	\$	\$
MO-110g	3-2" PVC Duct Bank per City Utilities Standards (DEB)	LF	1,700	\$	\$
MO-152a	Class A Excavation	CY	71,000	\$	\$
MO-152b	Class C Excavation	CY	14,200	\$	\$
MO-152c	Igneous Rock Excavation	CY	7,100	\$	\$
MO-152d	Subgrade Preparation	SY	24,200	\$	\$
MO-155a	Fly Ash Treated Subgrade - 12 Inches	SY	20,700	\$	\$
MO-155b	Fly Ash - Type C	TON	2,100	\$	\$
MO-156a	Temporary Erosion Control	LS	1	\$	\$
MO-209a	Crushed Aggregate Base Course (6 inch)	SY	3,600	\$	\$
MO-401Sa	Mineral Aggregate (BP-1)	TON	1,150	\$	\$

SCHEDULE I

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
MO-401Sb	Bituminous Asphalt Cement (BP-1)	TON	75	\$ _____	\$ _____
MO-603a	Bituminous Tack Coat	GAL	1,000	\$ _____	\$ _____
MO-620a	Temporary Pavement Markings	SF	420	\$ _____	\$ _____
MO-620b	Permanent Pavement Markings	SF	1,300	\$ _____	\$ _____
MO-701a	15 Inch Reinforced Concrete Pipe - Class V	LF	330	\$ _____	\$ _____
MO-701b	18 Inch Reinforced Concrete Pipe - Class V	LF	810	\$ _____	\$ _____
MO-701c	24 Inch Reinforced Concrete Pipe - Class V	LF	185	\$ _____	\$ _____
MO-701d	30 Inch Reinforced Concrete Pipe - Class V	LF	375	\$ _____	\$ _____
MO-701e	36 Inch Reinforced Concrete Pipe - Class V (Complete Replacement)	LF	90	\$ _____	\$ _____
MO-901a	Seeding with Hydromulch	AC	7	\$ _____	\$ _____
MoDOT-608a	Concrete Sidewalk	SY	260	\$ _____	\$ _____
MoDOT-720a	Mechanically Stabilized Earth Wall Systems (Complete In Place)	SF	1,750	\$ _____	\$ _____
MoDOT-731a	Install MoDOT Drop Inlet Type T	EA	2	\$ _____	\$ _____
MoDOT-731b	Install MoDOT Drop Inlet Type S-1	EA	4	\$ _____	\$ _____
MoDOT-903a	Traffic Signs (R1-1)	EA	1	\$ _____	\$ _____
MoDOT-903d	Traffic Signs (R7-8)	EA	2	\$ _____	\$ _____

SCHEDULE I

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
MoDOT-903e	Traffic Signs (R7-8a)	EA	2	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-140a	Asphalt Pavement Removal (Full Depth)	SY	24,110	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-140b	Asphalt Pavement Removal (Partial Depth)	SY	20	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-140c	Apron Concrete Pavement Removal (Full Depth)	SY	8,740	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-140d	Road Concrete Pavement Removal (Full Depth)	SY	5,100	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-140e	Remove Curb and Gutter	LF	6,335	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-140f	Remove Sidewalk	SY	235	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150a	Remove Existing ARFF Building	LS	1	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150c	Remove Existing Miscellaneous Building	EA	2	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150d	Remove Existing Covered Walkway	LS	1	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150e	Remove Existing Hangar Foundation	LS	1	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150f	Remove Oil/Water Separator (Complete)	LS	1	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150g	Remove Retaining Wall	LF	170	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150h	Remove Brick Wall (Complete)	LF	130	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150i	Remove Existing Signs	EA	17	\$	\$
				at the unit price of: _____dollars and _____cents.	
P-150k	Remove Fence	LF	1,520	\$	\$
				at the unit price of: _____dollars and _____cents.	

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
P-150l	Remove Fuel Tank and Lines(Complete)	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150m	Remove Existing Water Line (Complete)	LF	800	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150n	Remove Existing Water Manhole	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150o	Remove Existing Water Meter	EA	4	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150p	Remove Water Valves	EA	8	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150q	Remove Existing Fire Hydrant	EA	2	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150r	Remove Irrigation Valve	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150s	Remove Existing Storm Line (12", 18", 24", 36")	LF	2,400	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150t	Remove Existing Storm Inlet	EA	21	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150u	Remove Existing Storm Manhole	EA	2	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150w	Remove Existing Sanitary Pipe	LF	180	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150x	Remove Existing Sanitary Manhole	EA	5	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150y	Remove Existing Sanitary Cleanout	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150z	Remove Existing Manhole	EA	2	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150aa	Remove City Utilities Transformer	EA	3	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150bb	Remove Existing Natural Gas Pipe	LF	900	\$	\$
	at the unit price of: _____dollars and _____cents.				

SCHEDULE I

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
P-150cc	Remove Existing Natural Gas Meter	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150dd	Remove Existing Natural Gas Valve	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150ee	Remove Existing Underdrain	LF	210	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150ff	Remove Overhead Power Cable	LF	520	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150gg	Remove Light Pole and Foundation (Complete)	EA	18	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150hh	Remove City Utilities Junction Cabinet	EA	5	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150ii	Remove Telephone Pedestal	EA	5	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150jj	Remove Bollards	EA	16	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150ll	Remove Electrical Equipment Rack	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150mm	Remove Handhole	EA	8	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150nn	Remove Junction Box	EA	4	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150oo	Remove City Utilities Power Pole	EA	6	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150pp	Remove Trees	EA	28	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150rr	Adjust Existing Electrical Manhole	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150ss	Adjust Existing Manhole	EA	2	\$	\$
	at the unit price of: _____dollars and _____cents.				
P-150tt	Adjust Electrical Handhole	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				

SCHEDULE I

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
P-150uu	Adjust Existing Sanitary Cleanout at the unit price of: _____dollars and _____cents.	EA	5	\$	\$
P-150vv	Adjust Monitoring Well at the unit price of: _____dollars and _____cents.	EA	2	\$	\$
P-150xx	Adjust Miscellaneous Well at the unit price of: _____dollars and _____cents.	EA	2	\$	\$
P-150yy	Phase 1 Berm Removal at the unit price of: _____dollars and _____cents.	LS	1	\$	\$
P-151a	Clearing and Grubbing at the unit price of: _____dollars and _____cents.	LS	1	\$	\$
P-203a	Bituminous Drainable Layer (4-inch) at the unit price of: _____dollars and _____cents.	SY	4,300	\$	\$
P-203b	Bituminous Drainable Layer (6-inch) at the unit price of: _____dollars and _____cents.	SY	16,400	\$	\$
P-222a	Soil Sterilization at the unit price of: _____dollars and _____cents.	SY	24,200	\$	\$
P-312a	Install Stabilization Fabric at the unit price of: _____dollars and _____cents.	SY	20,620	\$	\$
P-501a	Portland Cement Concrete Pavement (6-inch) at the unit price of: _____dollars and _____cents.	SY	2,900	\$	\$
P-501b	Portland Cement Concrete Pavement (11-inch) at the unit price of: _____dollars and _____cents.	SY	14,550	\$	\$
P-501c	Portland Cement Concrete Pavement (6-inch Reinforced) at the unit price of: _____dollars and _____cents.	SY	1,400	\$	\$
P-501d	Portland Cement Concrete Pavement (11-inch Reinforced) at the unit price of: _____dollars and _____cents.	SY	1,800	\$	\$
F-162a	Install 8-Foot Chain-Link Fence at the unit price of: _____dollars and _____cents.	LF	2,850	\$	\$
F-162b	Install Temporary Chain-Link Fence at the unit price of: _____dollars and _____cents.	LF	1,725	\$	\$
F-165a	Install Vertical Pivot Gate (Complete) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$

SCHEDULE I

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
F-165b	Remove Existing Vertical Pivot Gate	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-705a	Install 6 Inch Perforated Underdrain	LF	950	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-705b	Install 6 Inch Non-Perforated Underdrain	LF	100	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-751a	Install Aircraft Rated Double Inlet Type I	EA	9	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-751b	Install Aircraft Rated 5' Manhole	EA	5	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-751c	Install Underdrain Inspection Pit	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-751d	Install Underdrain Clean out	EA	4	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-751e	Connect to Existing Storm Structure	EA	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-751f	Connect to Existing Sanitary Structure	EA	3	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-754a	Concrete Curb and Gutter (6" curb with 2' pan)	LF	2,205	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-754b	Concrete Curb and Gutter (6" curb with 1' pan)	LF	165	\$	\$
	at the unit price of: _____dollars and _____cents.				
D-754c	Concrete Curb and Gutter (8" curb with 2' pan)	LF	285	\$	\$
	at the unit price of: _____dollars and _____cents.				
L-139a	Temporary Construction Traffic Control (All Phases)	LS	1	\$	\$
	at the unit price of: _____dollars and _____cents.				
U-02510a	Install Water Line (Including all valves, thrust blocks & bends)	LF	1,750	\$	\$
	at the unit price of: _____dollars and _____cents.				
U-02510b	Install Water Line Service (Service shall include connection to main)	EA	17	\$	\$
	at the unit price of: _____dollars and _____cents.				
U-02510c	Install Fire Hydrant (Complete)	EA	3	\$	\$
	at the unit price of: _____dollars and _____cents.				

SCHEDULE I

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
U-02550a	Install Gas Line (Complete) at the unit price of: _____dollars and _____cents.	LF	1,055	\$	\$
U-02550b	Install Gas Line Service (Service shall include connection to main) at the unit price of: _____dollars and _____cents.	EA	17	\$	\$
U-02550c	Install Sanitary Line (Complete) at the unit price of: _____dollars and _____cents.	LF	1,265	\$	\$
U-02550d	Install Sanitary Line Service (Service shall include connection to main) at the unit price of: _____dollars and _____cents.	EA	17	\$	\$
Div-26a	#6 AWG 600V Insulated Conductor at the unit price of: _____dollars and _____cents.	LF	130	\$	\$
Div-26b	#8 AWG 600V Insulated Conductor at the unit price of: _____dollars and _____cents.	LF	690	\$	\$
Div-26c	#10 AWG 600V Insulated Conductor at the unit price of: _____dollars and _____cents.	LF	2,870	\$	\$
Div-26d	#12 AWG 600V Insulated Conductor at the unit price of: _____dollars and _____cents.	LF	60	\$	\$
Div-26e	3/0 AWG 600V Insulated Conductor at the unit price of: _____dollars and _____cents.	LF	350	\$	\$
Div-26f	Install Handhole at the unit price of: _____dollars and _____cents.	EA	4	\$	\$
Div-26g	Junction Box at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26i	Install City Utilities Provided Junction Cabinet at the unit price of: _____dollars and _____cents.	EA	3	\$	\$
Div-26j	Install City Utilities Provided Single-Phase Transformer at the unit price of: _____dollars and _____cents.	EA	2	\$	\$
Div-26k	Install City Utilities Provided 3-Phase Transformer at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26l	Install Roadway Lighting Power Frame at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26m	Electrical for Vertical Pivot Gate at the unit price of: _____dollars and _____cents.	EA	1	\$	\$

SCHEDULE I

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
Div-26n	Type "A" Luminaire at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26q	Type "D" Luminaire at the unit price of: _____dollars and _____cents.	EA	7	\$	\$
Div-26r	Type "E" Luminaire at the unit price of: _____dollars and _____cents.	EA	2	\$	\$
Div-26t	12 Strand Multi Mode Fiber Optic Cable at the unit price of: _____dollars and _____cents.	LF	770	\$	\$
Div-26u	36 Strand Combo Fiber Optic Cable at the unit price of: _____dollars and _____cents.	LF	3,680	\$	\$
Div-26v	Aircraft Rated Handhole at the unit price of: _____dollars and _____cents.	EA	1	\$	\$

SCHEDULE I TOTAL \$ _____

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Item No.	Description	Units	Estimated Quantity	Unit Price	Total
BASE BID ITEMS					
MO-100a	Mobilization	LS	1	\$ _____ dollars and _____ cents.	\$ _____
MO-110a	1" PVC Conduit, Installed in Trench (DEB)	LF	1,100	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-110b	1" HDPE Conduit, Installed by Directional Boring	LF	600	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-110c	3/4" PVC Conduit, Installed in Trench (DEB)	LF	150	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-110g	3-2" PVC Duct Bank per City Utilities Standards (DEB)	LF	600	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-152a	Class A Excavation	CY	2,700	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-152b	Class C Excavation	CY	600	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-152c	Igneous Rock Excavation	CY	300	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-152d	Subgrade Preparation	SY	10,600	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-156a	Temporary Erosion Control	LS	1	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-209a	Crushed Aggregate Base Course (6 inch)	SY	10,600	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-401Sa	Mineral Aggregate (BP-1)	TON	3,150	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-401Sb	Bituminous Asphalt Cement (BP-1)	TON	205	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-603a	Bituminous Tack Coat	GAL	2,600	at the unit price of: _____ dollars and _____ cents.	\$ _____
MO-620a	Temporary Pavement Markings	SF	11,500	at the unit price of: _____ dollars and _____ cents.	\$ _____

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
MO-620b	Permanent Pavement Markings	SF	11,500	\$ _____	\$ _____
MO-701a	15 Inch Reinforced Concrete Pipe - Class V	LF	280	\$ _____	\$ _____
MO-701b	18 Inch Reinforced Concrete Pipe - Class V	LF	385	\$ _____	\$ _____
MO-701f	18" F.E.S.	EA	2	\$ _____	\$ _____
MO-901a	Seeding with Hydromulch	AC	1	\$ _____	\$ _____
MoDOT-608a	Concrete Sidewalk	SY	300	\$ _____	\$ _____
MoDOT-608b	Concrete Median Strip	SY	460	\$ _____	\$ _____
MoDOT-608c	Roundabout Mountable Curb	LF	400	\$ _____	\$ _____
MoDOT-608d	Roundabout Red Stamped Concrete Truck Apron	SY	3,750	\$ _____	\$ _____
MoDOT-731a	Install MoDOT Drop Inlet Type T	EA	7	\$ _____	\$ _____
MoDOT-731b	Install MoDOT Drop Inlet Type S-1	EA	1	\$ _____	\$ _____
MoDOT-903a	Traffic Signs (R1-1)	EA	3	\$ _____	\$ _____
MoDOT-903b	Traffic Signs (R1-2)	EA	4	\$ _____	\$ _____
MoDOT-903c	Traffic Signs (R3-7R)	EA	1	\$ _____	\$ _____
MoDOT-903d	Traffic Signs (R7-8)	EA	8	\$ _____	\$ _____
MoDOT-903e	Traffic Signs (R7-8a)	EA	2	\$ _____	\$ _____

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
MoDOT-903f	Traffic Signs (R5-1) at the unit price of: _____dollars and _____cents.	EA	5	\$	\$
MoDOT-903g	Traffic Signs (R3-5R) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
MoDOT-903h	Traffic Signs (D1-5 #1) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
MoDOT-903i	Traffic Signs (D1-5 #2) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
MoDOT-903j	Traffic Signs (D1-5 #3) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
MoDOT-903k	Traffic Signs (R4-7c) at the unit price of: _____dollars and _____cents.	EA	3	\$	\$
MoDOT-903l	Traffic Signs (R6-4) at the unit price of: _____dollars and _____cents.	EA	4	\$	\$
MoDOT-903m	Traffic Signs (D1-1 #1) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
MoDOT-903n	Traffic Signs (D1-1 #2) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
MoDOT-903o	Traffic Signs (D1-1 #3) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
MoDOT-903p	Traffic Signs (D1-1 #4) at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
P-140a	Asphalt Pavement Removal (Full Depth) at the unit price of: _____dollars and _____cents.	SY	4,550	\$	\$
P-140b	Asphalt Pavement Removal (Partial Depth) at the unit price of: _____dollars and _____cents.	SY	30	\$	\$
P-140d	Road Concrete Pavement Removal (Full Depth) at the unit price of: _____dollars and _____cents.	SY	3,400	\$	\$
P-140e	Remove Curb and Gutter at the unit price of: _____dollars and _____cents.	LF	5,270	\$	\$
P-140f	Remove Sidewalk at the unit price of: _____dollars and _____cents.	SY	475	\$	\$

SCHEDULE II

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
P-150b	Remove Existing Toll Booths and Canopy	LS	1	\$ _____	\$ _____
P-150i	Remove Existing Signs	EA	21	\$ _____	\$ _____
P-150j	Remove Airport Entrance Sign and Lights	LS	1	\$ _____	\$ _____
P-150m	Remove Existing Water Line (Complete)	LF	710	\$ _____	\$ _____
P-150o	Remove Existing Water Meter	EA	1	\$ _____	\$ _____
P-150r	Remove Irrigation Valve	EA	2	\$ _____	\$ _____
P-150s	Remove Existing Storm Line (12", 18", 24", 36")	LF	730	\$ _____	\$ _____
P-150t	Remove Existing Storm Inlet	EA	5	\$ _____	\$ _____
P-150v	Remove FES	EA	1	\$ _____	\$ _____
P-150w	Remove Existing Sanitary Pipe	LF	690	\$ _____	\$ _____
P-150z	Remove Existing Manhole	EA	1	\$ _____	\$ _____
P-150ee	Remove Existing Underdrain	LF	570	\$ _____	\$ _____
P-150egg	Remove Light Pole and Foundation (Complete)	EA	6	\$ _____	\$ _____
P-150jj	Remove Bollards	EA	6	\$ _____	\$ _____
P-150kk	Remove Lighted Bollard	EA	1	\$ _____	\$ _____
P-150mm	Remove Handhole	EA	1	\$ _____	\$ _____

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
P-150nn	Remove Junction Box	EA	2	\$	\$
P-150pp	Remove Trees	EA	18	\$	\$
P-150qq	Relocate Irrigation Control Box	EA	1	\$	\$
P-150tt	Adjust Electrical Handhole	EA	2	\$	\$
P-150ww	Adjust Water Valve	EA	3	\$	\$
P-151a	Cleaning and Grubbing	LS	1	\$	\$
P-222a	Soil Sterilization	SY	10,600	\$	\$
P-609a	Seal Coat Existing Parking Lot	SY	45,000	\$	\$
D-705a	Type M Riprap	SY	25	\$	\$
D-751b	Install Aircraft Rated 5' Manhole	EA	2	\$	\$
D-751e	Connect to Existing Storm Structure	EA	5	\$	\$
D-754a	Concrete Curb and Gutter (6" curb with 2' pan)	LF	1,470	\$	\$
D-754b	Concrete Curb and Gutter (6" curb with 1' pan)	LF	585	\$	\$
D-754d	Concrete Drain Pan (4 ft)	LF	55	\$	\$
L-139a	Temporary Construction Traffic Control (All Phases)	LS	1	\$	\$
Div-26b	#8 AWG 600V Insulated Conductor	LF	690	\$	\$

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
Div-26c	#10 AWG 600V Insulated Conductor at the unit price of: _____dollars and _____cents.	LF	5,330	\$	\$
Div-26d	#12 AWG 600V Insulated Conductor at the unit price of: _____dollars and _____cents.	LF	450	\$	\$
Div-26f	Install Handhole at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26g	Junction Box at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26h	Adjust Handhole at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26i	Install City Utilites Provided Junction Cabinet at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26o	Type "B" Luminaire at the unit price of: _____dollars and _____cents.	EA	3	\$	\$
Div-26p	Type "C" Luminaire at the unit price of: _____dollars and _____cents.	EA	1	\$	\$
Div-26q	Type "D" Luminaire at the unit price of: _____dollars and _____cents.	EA	6	\$	\$
Div-26s	Type "F" Luminaire at the unit price of: _____dollars and _____cents.	EA	3	\$	\$

SCHEDULE II TOTAL \$ _____

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>UNIT</u>
<u>BASE BID ITEMS</u>		
<u>MO-100</u>	<u>Mobilization</u>	
MO-100a	Mobilization	LS
<u>MO-110</u>	<u>Airport Underground Electrical Duct Banks and Conduits</u>	
MO-110a	1" PVC Conduit, Installed in Trench (DEB)	LF
MO-110b	1" HDPE Conduit, Installed by Directional Boring	LF
MO-110c	3/4" PVC Conduit, Installed in Trench (DEB)	LF
MO-110d	2" PVC Conduit, Installed in Trench (DEB)	LF
MO-110e	2-4" PVC Conduit, Installed in Trench (DEB)	LF
MO-110f	4-3" PVC Conduit, Installed in Trench (DEB)	LF
MO-110g	3-2" PVC Duct Bank per City Utilities Standards (DEB)	LF
<u>MO-152</u>	<u>Excavation and Embankment</u>	
MO-152a	Class A Excavation	CY
MO-152b	Class C Excavation	CY
MO-152c	Igneous Rock Excavation	CY
MO-152d	Subgrade Preparation	SY
<u>MO-155</u>	<u>Fly Ash Treated Subgrade</u>	
MO-155a	Fly Ash Treated Subgrade - 12 Inches	SY
MO-155b	Fly Ash - Type C	TON
<u>MO-156</u>	<u>Erosion and Sediment Control</u>	
MO-156a	Temporary Erosion Control	LS
<u>MO-209</u>	<u>Crushed Aggregate Base Course</u>	
MO-209a	Crushed Aggregate Base Course (6 inch)	SY
<u>MO-401S</u>	<u>Plant Mix Bituminous Pavements</u>	
MO-401Sa	Mineral Aggregate (BP-1)	TON
MO-401Sb	Bituminous Asphalt Cement (BP-1)	TON
<u>MO-603</u>	<u>Bituminous Tack Coat</u>	
MO-603a	Bituminous Tack Coat	GAL
<u>MO-620</u>	<u>Pavement Striping</u>	
MO-620a	Temporary Pavement Markings	SF
MO-620b	Permanent Pavement Markings	SF
<u>MO-701</u>	<u>Pipe for Storm Drains and Culverts</u>	
MO-701a	15 Inch Reinforced Concrete Pipe - Class V	LF
MO-701b	18 Inch Reinforced Concrete Pipe - Class V	LF
MO-701c	24 Inch Reinforced Concrete Pipe - Class V	LF
MO-701d	30 Inch Reinforced Concrete Pipe - Class V	LF
MO-701e	36 Inch Reinforced Concrete Pipe - Class V (Complete Replacement)	LF
MO-701f	18" F.E.S.	EA
<u>MO-901</u>	<u>Seeding</u>	
MO-901a	Seeding with Hydromulch	AC

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>UNIT</u>
<u>MoDOT-608</u>	<u>Concrete Median, Median Strip, Sidewalk, and Curb Ramps</u>	
MoDOT-608a	Concrete Sidewalk	SY
MoDOT-608b	Concrete Median Strip	SY
MoDOT-608c	Roundabout Mountable Curb	LF
MoDOT-608d	Roundabout Red Stamped Concrete Truck Apron	SY
<u>MoDOT-720</u>	<u>Mechanically Stabilized Earth Wall Systems</u>	
MoDOT-720a	Mechanically Stabilized Earth Wall Systems (Complete In Place)	SF
<u>MoDOT-731</u>	<u>Precast Reinforced Concrete Manholes and Drop Inlets</u>	
MoDOT-731a	Install MoDOT Drop Inlet Type T	EA
MoDOT-731b	Install MoDOT Drop Inlet Type S-1	EA
<u>MoDOT-903</u>	<u>Traffic Control</u>	
MoDOT-903a	Traffic Signs (R1-1)	EA
MoDOT-903b	Traffic Signs (R1-2)	EA
MoDOT-903c	Traffic Signs (R3-7R)	EA
MoDOT-903d	Traffic Signs (R7-8)	EA
MoDOT-903e	Traffic Signs (R7-8a)	EA
MoDOT-903f	Traffic Signs (R5-1)	EA
MoDOT-903g	Traffic Signs (R3-5R)	EA
MoDOT-903h	Traffic Signs (D1-5 #1)	EA
MoDOT-903i	Traffic Signs (D1-5 #2)	EA
MoDOT-903j	Traffic Signs (D1-5 #3)	EA
MoDOT-903k	Traffic Signs (R4-7c)	EA
MoDOT-903l	Traffic Signs (R6-4)	EA
MoDOT-903m	Traffic Signs (D1-1 #1)	EA
MoDOT-903n	Traffic Signs (D1-1 #2)	EA
MoDOT-903o	Traffic Signs (D1-1 #3)	EA
MoDOT-903p	Traffic Signs (D1-1 #4)	EA
<u>P-140</u>	<u>Pavement Removal</u>	
P-140a	Asphalt Pavement Removal (Full Depth)	SY
P-140b	Asphalt Pavement Removal (Partial Depth)	SY
P-140c	Apron Concrete Pavement Removal (Full Depth)	SY
P-140d	Road Concrete Pavement Removal (Full Depth)	SY
P-140e	Remove Curb and Gutter	LF
P-140f	Remove Sidewalk	SY
<u>P-150</u>	<u>Demolition and Removal</u>	
P-150a	Remove Existing ARFF Building	LS
P-150b	Remove Existing Toll Booths and Canopy	LS
P-150c	Remove Existing Miscellaneous Building	EA
P-150d	Remove Existing Covered Walkway	LS
P-150e	Remove Existing Hangar Foundation	LS
P-150f	Remove Oil/Water Separator (Complete)	LS
P-150g	Remove Retaining Wall	LF
P-150h	Remove Brick Wall (Complete)	LF
P-150i	Remove Existing Signs	EA
P-150j	Remove Airport Entrance Sign and Lights	LS
P-150k	Remove Fence	LF
P-150l	Remove Fuel Tank and Lines(Complete)	EA
P-150m	Remove Existing Water Line (Complete)	LF
P-150n	Remove Existing Water Manhole	EA
P-150o	Remove Existing Water Meter	EA
P-150p	Remove Water Valves	EA

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>UNIT</u>
P-150q	Remove Existing Fire Hydrant	EA
P-150r	Remove Irrigation Valve	EA
P-150s	Remove Existing Storm Line (12", 18", 24", 36")	LF
P-150t	Remove Existing Storm Inlet	EA
P-150u	Remove Existing Storm Manhole	EA
P-150v	Remove FES	EA
P-150w	Remove Existing Sanitary Pipe	LF
P-150x	Remove Existing Sanitary Manhole	EA
P-150y	Remove Existing Sanitary Cleanout	EA
P-150z	Remove Existing Manhole	EA
P-150aa	Remove City Utilites Transformer	EA
P-150bb	Remove Existing Natural Gas Pipe	LF
P-150cc	Remove Existing Natural Gas Meter	EA
P-150dd	Remove Existing Natural Gas Valve	EA
P-150ee	Remove Existing Underdrain	LF
P-150ff	Remove Overhead Power Cable	LF
P-150gg	Remove Light Pole and Foundation (Complete)	EA
P-150hh	Remove City Utilites Junction Cabinet	EA
P-150ii	Remove Telephone Pedestal	EA
P-150jj	Remove Bollards	EA
P-150kk	Remove Lighted Bollard	EA
P-150ll	Remove Electrical Equipment Rack	EA
P-150mm	Remove Handhole	EA
P-150nn	Remove Junction Box	EA
P-150oo	Remove City Utilites Power Pole	EA
P-150pp	Remove Trees	EA
P-150qq	Relocate Irrigation Control Box	EA
P-150rr	Adjust Existing Electrical Manhole	EA
P-150ss	Adjust Existing Manhole	EA
P-150tt	Adjust Electrical Handhole	EA
P-150uu	Adjust Existing Sanitary Cleanout	EA
P-150vv	Adjust Monitoring Well	EA
P-150ww	Adjust Water Valve	EA
P-150xx	Adjust Miscellaneous Well	EA
P-150yy	Phase 1 Berm Removal	LS
<u>P-151</u>	<u>Clearing and Grubbing</u>	
P-151a	Clearing and Grubbing	LS
<u>P-203</u>	<u>Bituminous Drainable Layer</u>	
P-203a	Bituminous Drainable Layer (4-inch)	SY
P-203b	Bituminous Drainable Layer (6-inch)	SY
<u>P-222</u>	<u>Soil Sterilization</u>	
P-222a	Soil Sterilization	SY
<u>P-312</u>	<u>Non-Woven Geotextile Fabrics</u>	
P-312a	Install Stabilization Fabric	SY

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>UNIT</u>
<u>P-501</u>		
<u>Portland Cement Concrete Pavements</u>		
P-501a	Portland Cement Concrete Pavement (6-inch)	SY
P-501b	Portland Cement Concrete Pavement (11-inch)	SY
P-501c	Portland Cement Concrete Pavement (6-inch Reinforced)	SY
P-501d	Portland Cement Concrete Pavement (11-inch Reinforced)	SY
<u>P-609</u>		
<u>Emulsified Pavement Sealer and Rejuvenator</u>		
P-609a	Seal Coat Existing Parking Lot	SY
<u>F-162</u>		
<u>Chain-Link Fences</u>		
F-162a	Install 8-Foot Chain-Link Fence	LF
F-162b	Install Temporary Chain-Link Fence	LF
<u>F-165</u>		
<u>Vertical Pivot Gates</u>		
F-165a	Install Vertical Pivot Gate (Complete)	EA
F-165b	Remove Existing Vertical Pivot Gate	EA
<u>D-705</u>		
<u>Pipe Underdrains for Airports</u>		
D-705a	Install 6 Inch Perforated Underdrain	LF
D-705b	Install 6 Inch Non-Perforated Underdrain	LF
<u>D-710</u>		
<u>Rock Riprap</u>		
D-705a	Type M Riprap	SY
<u>D-751</u>		
<u>Manholes, Catch Basins, Inlets and Inspection Holes</u>		
D-751a	Install Aircraft Rated Double Inlet Type I	EA
D-751b	Install Aircraft Rated 5' Manhole	EA
D-751c	Install Underdrain Inspection Pit	EA
D-751d	Install Underdrain Clean out	EA
D-751e	Connect to Existing Storm Structure	EA
D-751f	Connect to Existing Sanitary Structure	EA
<u>D-754</u>		
<u>Concrete Gutters, Ditches, and Flumes</u>		
D-754a	Concrete Curb and Gutter (6" curb with 2' pan)	LF
D-754b	Concrete Curb and Gutter (6" curb with 1' pan)	LF
D-754c	Concrete Curb and Gutter (8" curb with 2' pan)	LF
D-754d	Concrete Drain Pan (4 ft)	LF
<u>L-139</u>		
<u>Temporary Construction Marking and Lighting</u>		
L-139a	Temporary Construction Traffic Control (All Phases)	LS
<u>UTILITY</u>		
<u>Underground Utilities</u>		
U-02510a	Install Water Line (Including all valves, thrust blocks & bends)	LF
U-02510b	Install Water Line Service (Service shall include connection to main)	EA
U-02510c	Install Fire Hydrant (Complete)	EA
U-02550a	Install Gas Line (Complete)	LF
U-02550b	Install Gas Line Service (Service shall include connection to main)	EA
U-02550c	Install Sanitary Line (Complete)	LF
U-02550d	Install Sanitary Line Service (Service shall include connection to main)	EA

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>UNIT</u>
<u>Division 26</u>	<u>Electrical</u>	
Div-26a	#6 AWG 600V Insulated Conductor	LF
Div-26b	#8 AWG 600V Insulated Conductor	LF
Div-26c	#10 AWG 600V Insulated Conductor	LF
Div-26d	#12 AWG 600V Insulated Conductor	LF
Div-26e	3/0 AWG 600V Insulated Conductor	LF
Div-26f	Install Handhole	EA
Div-26g	Junction Box	EA
Div-26h	Adjust Handhole	EA
Div-26i	Install City Utilities Provided Junction Cabinet	EA
Div-26j	Install City Utilities Provided Single-Phase Transformer	EA
Div-26k	Install City Utilities Provided 3-Phase Transformer	EA
Div-26l	Install Roadway Lighting Power Frame	EA
Div-26m	Electrical for Vertical Pivot Gate	EA
Div-26n	Type "A" Luminaire	EA
Div-26o	Type "B" Luminaire	EA
Div-26p	Type "C" Luminaire	EA
Div-26q	Type "D" Luminaire	EA
Div-26r	Type "E" Luminaire	EA
Div-26s	Type "F" Luminaire	EA
Div-26t	12 Strand Multi Mode Fiber Optic Cable	LF
Div-26u	36 Strand Combo Fiber Optic Cable	LF
Div-26v	Aircraft Rated Handhole	EA

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20	C103	DEMOLITION PLAN STA. 42+50.00 TO 49+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
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22	C105	DEMOLITION PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
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24	C111	UTILITY DEMOLITION PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20
25	C112	UTILITY DEMOLITION PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20
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53	C406	PARKING LOT/APRON ACCESS ROAD PLAN AND PROFILE
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57	C454	PLAN AND PROFILE STORM LINE D
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69	C466	STORM SEWER DETAILS
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72	C469	STORM INLET DETAILS
73	C470	TRENCHING AND UNDERDRAIN DETAILS
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75	C502	SPOT ELEVATION PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20
76	C503	SPOT ELEVATION PLAN STA. 42+50.00 TO 49+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
77	C504	SPOT ELEVATION PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
78	C505	SPOT ELEVATION PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
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93	C703	UTILITY LAYOUT PLAN STA. 42+50.00 TO 49+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
94	C704	UTILITY LAYOUT PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
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103	C803	STRIPING AND SIGNAGE PLAN STA. 42+50.00 TO 49+00.00 RUNWAY 2/20 OFFSET 1,000' RT. TO 1,450' RT. RUNWAY 2/20
104	C804	STRIPING AND SIGNAGE PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
105	C805	STRIPING AND SIGNAGE PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
106	C806	STRIPING AND SIGNAGE PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 1,600' RT. TO 2,050' RT. RUNWAY 2/20
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115	C902	EROSION CONTROL PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20
116	C903	EROSION CONTROL PLAN STA. 42+50.00 TO 49+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
117	C904	EROSION CONTROL PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
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119	C906	EROSION CONTROL PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 1,600' RT. TO 2,050' RT. RUNWAY 2/20
120	C950	EROSION CONTROL DETAILS
121	E001	ELECTRICAL LEGEND
122	E201	ELECTRICAL LAYOUT PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20
123	E202	ELECTRICAL LAYOUT PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20
124	E203	ELECTRICAL LAYOUT PLAN STA. 42+50.00 TO 49+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
125	E204	ELECTRICAL LAYOUT PLAN STA. 49+00.00 TO 55+50.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
126	E205	ELECTRICAL LAYOUT PLAN STA. 55+50.00 TO 62+00.00 RUNWAY 2/20 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20
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128	E350	ELECTRICAL DETAILS
129	E351	ELECTRICAL DETAILS
130	E352	ELECTRICAL DETAILS
130A	E353	ELECTRICAL DETAILS

**ISSUE FOR BID
NOT FOR CONSTRUCTION**

THESE DRAWINGS ARE FOR BIDDING
AND CONSTRUCTION USE AND ARE NOT
A RECORD SET AS DEFINED BY LAW.
THE RECORD SETS ARE SIGNED AND
SEALED BY:

MARK J. LOVATO PE-2009002094 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

000-SF-CAL-0002-IND.dwg
 Jul 19, 2013 2:58pm
 dconway



ISSUE RECORD				
DES: D.W.C.	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: M.J.L.				

**W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT**

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		SHEET NO.
		2 of 130

JVIATION PROJ. NO. AIR 126-092A1 DATE: 07/08/13

SUMMARY OF APPROXIMATE QUANTITIES						
ITEM	DESCRIPTION	UNIT	SCHEDULE I		SCHEDULE II	
			ESTIMATE	AS-BUILT	ESTIMATE	AS-BUILT
MO-100a	MOBILIZATION	LS	1		1	
MO-110a	1" PVC CONDUIT, INSTALLED IN TRENCH (DEB)	LF	1,000		1,100	
MO-110b	1" HDPE CONDUIT, INSTALLED BY DIRECTIONAL BORING	LF			600	
MO-110c	3/4" PVC CONDUIT, INSTALLED IN TRENCH (DEB)	LF			150	
MO-110d	2" PVC CONDUIT, INSTALLED IN TRENCH (DEB)	LF	150			
MO-110e	2-4" PVC CONDUIT, INSTALLED IN TRENCH (DEB)	LF	1,600			
MO-110f	4-3" PVC CONDUIT, INSTALLED IN TRENCH (DEB)	LF	70			
MO-110g	3-2" PVC DUCT BANK PER CITY UTILITIES STANDARDS (DEB)	LF	1,700		600	
MO-152a	CLASS A EXCAVATION	CY	71,000		2,700	
MO-152b	CLASS C EXCAVATION	CY	14,200		600	
MO-152c	IGNEOUS ROCK EXCAVATION	CY	7,100		300	
MO-152d	SUBGRADE PREPARATION	SY	24,200		10,600	
MO-155a	FLY ASH TREATED SUBGRADE - 12 INCHES	SY	20,700			
MO-155b	FLY ASH - TYPE C	TON	2,100			
MO-156a	TEMPORARY EROSION CONTROL	LS	1		1	
MO-209a	CRUSHED AGGREGATE BASE COURSE (6 INCH)	SY	3,600		10,600	
MO-401Sa	MINERAL AGGREGATE (BP-1)	TON	1,150		3,150	
MO-401Sb	BITUMINOUS ASPHALT CEMENT (BP-1)	TON	75		205	
MO-603a	BITUMINOUS TACK COAT	GAL	1,000		2,600	
MO-620a	TEMPORARY PAVEMENT MARKINGS	SF	420		11,500	
MO-620b	PERMANENT PAVEMENT MARKINGS	SF	1,300		11,500	
MO-701a	15 INCH REINFORCED CONCRETE PIPE - CLASS V	LF	330		280	
MO-701b	18 INCH REINFORCED CONCRETE PIPE - CLASS V	LF	810		385	
MO-701c	24 INCH REINFORCED CONCRETE PIPE - CLASS V	LF	185			
MO-701d	30 INCH REINFORCED CONCRETE PIPE - CLASS V	LF	375			
MO-701e	36 INCH REINFORCED CONCRETE PIPE - CLASS V (COMPLETE REPLACEMENT)	LF	90			
MO-701f	18" F.E.S.	EA			2	
MO-901a	SEEDING WITH HYDROMULCH	AC	7		1	
MoDOT-608a	CONCRETE SIDEWALK	SY	260		300	
MoDOT-608b	CONCRETE MEDIAN STRIP	SY			460	
MoDOT-608c	ROUNDOABOUT MOUNTABLE CURB	LF			400	
MoDOT-608d	ROUNDOABOUT RED STAMPED CONCRETE TRUCK APRON	SY			3,750	
MoDOT-720a	MECHANICALLY STABILIZED EARTH WALL SYSTEMS (COMPLETE IN PLACE)	SF	1,750			
MoDOT-731a	INSTALL MODOT DROP INLET TYPE T	EA	2		7	
MoDOT-731b	INSTALL MODOT DROP INLET TYPE S-1	EA	4		1	
MoDOT-903a	TRAFFIC SIGNS (R1-1)	EA	1		3	
MoDOT-903b	TRAFFIC SIGNS (R1-2)	EA			4	
MoDOT-903c	TRAFFIC SIGNS (R3-7R)	EA			1	
MoDOT-903d	TRAFFIC SIGNS (R7-8)	EA	2		8	
MoDOT-903e	TRAFFIC SIGNS (R7-8A)	EA	2		2	
MoDOT-903f	TRAFFIC SIGNS (R5-1)	EA			5	
MoDOT-903g	TRAFFIC SIGNS (R3-5R)	EA			1	
MoDOT-903h	TRAFFIC SIGNS (D1-5 #1)	EA			1	
MoDOT-903i	TRAFFIC SIGNS (D1-5 #2)	EA			1	
MoDOT-903j	TRAFFIC SIGNS (D1-5 #3)	EA			1	
MoDOT-903k	TRAFFIC SIGNS (R4-7C)	EA			3	
MoDOT-903l	TRAFFIC SIGNS (R6-4)	EA			4	
MoDOT-903m	TRAFFIC SIGNS (D1-1 #1)	EA			1	
MoDOT-903n	TRAFFIC SIGNS (D1-1 #2)	EA			1	
MoDOT-903o	TRAFFIC SIGNS (D1-1 #3)	EA			1	
MoDOT-903p	TRAFFIC SIGNS (D1-1 #4)	EA			1	
P-140a	ASPHALT PAVEMENT REMOVAL (FULL DEPTH)	SY	24,110		4,550	
P-140b	ASPHALT PAVEMENT REMOVAL (PARTIAL DEPTH)	SY	20		30	
P-140c	APRON CONCRETE PAVEMENT REMOVAL (FULL DEPTH)	SY	8,740			
P-140d	ROAD CONCRETE PAVEMENT REMOVAL (FULL DEPTH)	SY	5,100		3,400	
P-140e	REMOVE CURB AND GUTTER	LF	6,335		5,270	
P-140f	REMOVE SIDEWALK	SY	235		475	
P-150a	REMOVE EXISTING ARFF BUILDING	LS	1			
P-150b	REMOVE EXISTING TOLL BOOTHS AND CANOPY	LS			1	
P-150c	REMOVE EXISTING MISCELLANEOUS BUILDING	EA	2			
P-150d	REMOVE EXISTING COVERED WALKWAY	LS	1			
P-150e	REMOVE EXISTING HANGAR FOUNDATION	LS	1			
P-150f	REMOVE OIL/WATER SEPARATOR (COMPLETE)	LS	1			
P-150g	REMOVE RETAINING WALL	LF	170			
P-150h	REMOVE BRICK WALL (COMPLETE)	LF	130			
P-150i	REMOVE EXISTING SIGNS	EA	17		21	
P-150j	REMOVE AIRPORT ENTRANCE SIGN AND LIGHTS	LS			1	
P-150k	REMOVE FENCE	LF	1,520			
P-150l	REMOVE FUEL TANK AND LINES (COMPLETE)	EA	1			
P-150m	REMOVE EXISTING WATER LINE (COMPLETE)	LF	800		710	
P-150n	REMOVE EXISTING WATER MANHOLE	EA	1			
P-150o	REMOVE EXISTING WATER METER	EA	4		1	
P-150p	REMOVE WATER VALVES	EA	8			
P-150q	REMOVE EXISTING FIRE HYDRANT	EA	2			
P-150r	REMOVE IRRIGATION VALVE	EA	1		2	
P-150s	REMOVE EXISTING STORM LINE (12", 18", 24", 36")	LF	2,400		730	
P-150t	REMOVE EXISTING STORM INLET	EA	21		5	
P-150u	REMOVE EXISTING STORM MANHOLE	EA	2			
P-150v	REMOVE FES	EA			1	
P-150w	REMOVE EXISTING SANITARY PIPE	LF	180		690	
P-150x	REMOVE EXISTING SANITARY MANHOLE	EA	5			
P-150y	REMOVE EXISTING SANITARY CLEANOUT	EA	1			
P-150z	REMOVE EXISTING MANHOLE	EA	2		1	

SUMMARY OF APPROXIMATE QUANTITIES						
ITEM	DESCRIPTION	UNIT	SCHEDULE I		SCHEDULE II	
			ESTIMATE	AS-BUILT	ESTIMATE	AS-BUILT
P-150aa	REMOVE CITY UTILITES TRANSFORMER	EA	3			
P-150bb	REMOVE EXISTING NATURAL GAS PIPE	LF	900			
P-150cc	REMOVE EXISTING NATURAL GAS METER	EA	1			
P-150dd	REMOVE EXISTING NATURAL GAS VALVE	EA	1			
P-150ee	REMOVE EXISTING UNDERDRAIN	LF	210		570	
P-150ff	REMOVE OVERHEAD POWER CABLE	LF	520			
P-150gg	REMOVE LIGHT POLE AND FOUNDATION (COMPLETE)	EA	18		6	
P-150hh	REMOVE CITY UTILITES JUNCTION CABINET	EA	5			
P-150ii	REMOVE TELEPHONE PEDESTAL	EA	5			
P-150jj	REMOVE BOLLARDS	EA	16		6	
P-150kk	REMOVE LIGHTED BOLLARD	EA			1	
P-150ll	REMOVE ELECTRICAL EQUIPMENT RACK	EA	1			
P-150mm	REMOVE HANDHOLE	EA	8		1	
P-150nn	REMOVE JUNCTION BOX	EA	4		2	
P-150oo	REMOVE CITY UTILITES POWER POLE	EA	6			
P-150pp	REMOVE TREES	EA	28		18	
P-150qq	RELOCATE IRRIGATION CONTROL BOX	EA			1	
P-150rr	ADJUST EXISTING ELECTRICAL MANHOLE	EA	1			
P-150ss	ADJUST EXISTING MANHOLE	EA	2			
P-150tt	ADJUST ELECTRICAL HANDHOLE	EA	1		2	
P-150uu	ADJUST EXISTING SANITARY CLEANOUT	EA	5			
P-150vv	ADJUST MONITORING WELL	EA	2			
P-150ww	ADJUST WATER VALVE	EA			3	
P-150xx	ADJUST MISCELLANEOUS WELL	EA	2			
P-150yy	PHASE 1 BERM REMOVAL	LS	1			
P-151a	CLEARING AND GRUBBING	LS	1		1	
P-203a	BITUMINOUS DRAINABLE LAYER (4-INCH)	SY	4,300			
P-203b	BITUMINOUS DRAINABLE LAYER (6-INCH)	SY	16,400			
P-222a	SOIL STERILIZATION	SY	24,200		10,600	
P-312a	INSTALL STABILIZATION FABRIC	SY	20,620			
P-501a	PORTLAND CEMENT CONCRETE PAVEMENT (6-INCH)	SY	2,900			
P-501b	PORTLAND CEMENT CONCRETE PAVEMENT (11-INCH)	SY	14,550			
P-501c	PORTLAND CEMENT CONCRETE PAVEMENT (6-INCH REINFORCED)	SY	1,400			
P-501d	PORTLAND CEMENT CONCRETE PAVEMENT (11-INCH REINFORCED)	SY	1,800			
P-609a	SEAL COAT EXISTING PARKING LOT	SY			45,000	
F-162a	INSTALL 8-FOOT CHAIN-LINK FENCE	LF	2,850			
F-162b	INSTALL TEMPORARY CHAIN-LINK FENCE	LF	1,725			
F-165a	INSTALL VERTICAL PIVOT GATE (COMPLETE)	EA	1			
F-165b	REMOVE EXISTING VERTICAL PIVOT GATE	EA	1			
D-705a	INSTALL 6 INCH PERFORATED UNDERDRAIN	LF	950			
D-705b	INSTALL 6 INCH NON-PERFORATED UNDERDRAIN	LF	100			
D-705a	TYPE M RIPRAP	SY			25	
D-751a	INSTALL AIRCRAFT RATED DOUBLE INLET TYPE I	EA	9			
D-751b	INSTALL AIRCRAFT RATED 5' MANHOLE	EA	5		2	
D-751c	INSTALL UNDERDRAIN INSPECTION PIT	EA	1			
D-751d	INSTALL UNDERDRAIN CLEAN OUT	EA	4			
D-751e	CONNECT TO EXISTING STORM STRUCTURE	EA	1		5	
D-751f	CONNECT TO EXISTING SANITARY STRUCTURE	EA	3			
D-754a	CONCRETE CURB AND GUTTER (6" CURB WITH 2' PAN)	LF	2,205		1,470	
D-754b	CONCRETE CURB AND GUTTER (6" CURB WITH 1' PAN)	LF	165		585	
D-754c	CONCRETE CURB AND GUTTER (8" CURB WITH 2' PAN)	LF	285			
D-754d	CONCRETE DRAIN PAN (4 FT)	LF			55	
L-139a	TEMPORARY CONSTRUCTION TRAFFIC CONTROL (ALL PHASES)	LS	1		1	
U-02510a	INSTALL WATER LINE (INCLUDING ALL VALVES, THRUST BLOCKS & BENDS)	LF	1,750			
U-02510b	INSTALL WATER LINE SERVICE (SERVICE SHALL INCLUDE CONNECTION TO MAIN)	EA	17			
U-02510c	INSTALL FIRE HYDRANT (COMPLETE)	EA	3			
U-02550a	INSTALL GAS LINE (COMPLETE)	LF	1,055			
U-02550b	INSTALL GAS LINE SERVICE (SERVICE SHALL INCLUDE CONNECTION TO MAIN)	EA	17			
U-02550c	INSTALL SANITARY LINE (COMPLETE)	LF	1,265			
U-02550d	INSTALL SANITARY LINE SERVICE (SERVICE SHALL INCLUDE CONNECTION TO MAIN)	EA	17			
Div-26a	#6 AWG 600V INSULATED CONDUCTOR	LF	130			
Div-26b	#8 AWG 600V INSULATED CONDUCTOR	LF	690		690	
Div-26c	#10 AWG 600V INSULATED CONDUCTOR	LF	2,870		5,330	
Div-26d	#12 AWG 600V INSULATED CONDUCTOR	LF	60		450	
Div-26e	3/0 AWG 600V INSULATED CONDUCTOR	LF	350			
Div-26f	INSTALL HANDHOLE	EA	4		1	
Div-26g	JUNCTION BOX	EA	1		1	
Div-26h	ADJUST HANDHOLE	EA			1	
Div-26i	INSTALL CITY UTILITES PROVIDED JUNCTION CABINET	EA	3		1	
Div-26j	INSTALL CITY UTILITES PROVIDED SINGLE-PHASE TRANSFORMER	EA	2			
Div-26k	INSTALL CITY UTILITES PROVIDED 3-PHASE TRANSFORMER	EA	1			
Div-26l	INSTALL ROADWAY LIGHTING POWER FRAME	EA	1			
Div-26m	ELECTRICAL FOR VERTICAL PIVOT GRATE	EA	1			
Div-26n	TYPE "A" LUMINAIRE	EA	1			
Div-26o	TYPE "B" LUMINAIRE	EA			3	
Div-26p	TYPE "C" LUMINAIRE	EA			1	
Div-26q	TYPE "D" LUMINAIRE	EA	7		6	
Div-26r	TYPE "E" LUMINAIRE	EA	2			
Div-26s	TYPE "F" LUMINAIRE	EA			3	
Div-26t	12 STRAND MULTI MODE FIBER OPTIC CABLE	LF	770			
Div-26u	36 STRAND COMBO FIBER OPTIC CABLE	LF	3,680			
Div-26v	AIRCRAFT RATED HANDHOLE	EA	1			

PREVIOUS ITEM P-150pp REMOVE UNDERGROUND TANK WAS ELIMINATED

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MARK J. LOVATO PE-2009002094 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

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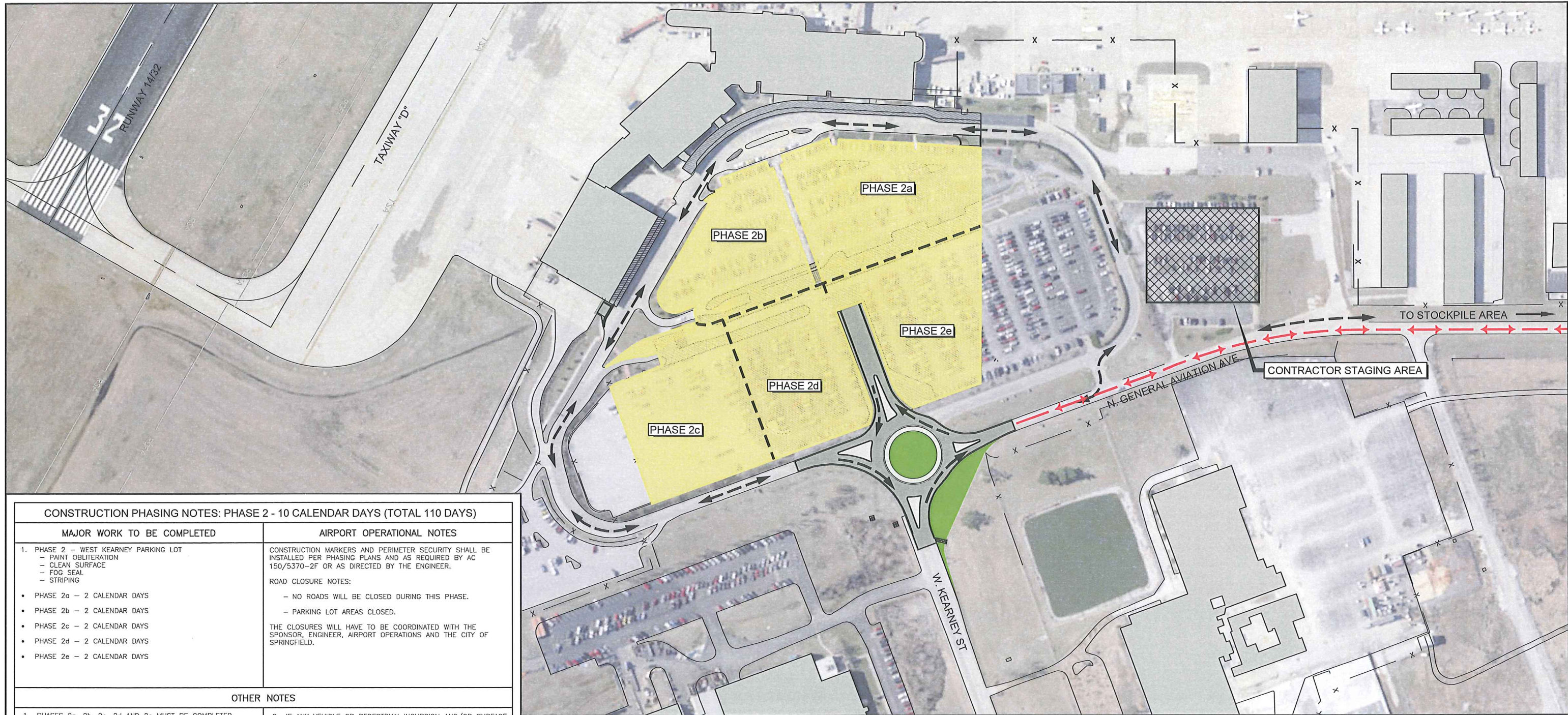
ISSUE RECORD				
NO.	BY	DATE	DESCRIPTION	
1	M.J.L.	07/08/13	ISSUE FOR BID	
2	M.J.L.	07/19/13	ADDENDUM #1	

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

SUMMARY OF APPROXIMATE QUANTITIES

JVIATION PROJ. NO. AIR 126-092A1 DATE: 07/08/13

SHEET NAME
G003
SHEET NO.
3 of 130



CONSTRUCTION PHASING NOTES: PHASE 2 - 10 CALENDAR DAYS (TOTAL 110 DAYS)

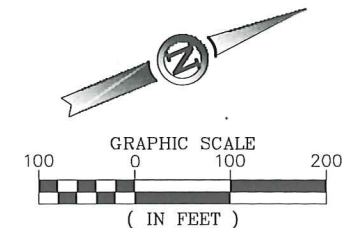
MAJOR WORK TO BE COMPLETED	AIRPORT OPERATIONAL NOTES
1. PHASE 2 - WEST KEARNEY PARKING LOT - PAINT OBLITERATION - CLEAN SURFACE - FOG SEAL - STRIPING • PHASE 2a - 2 CALENDAR DAYS • PHASE 2b - 2 CALENDAR DAYS • PHASE 2c - 2 CALENDAR DAYS • PHASE 2d - 2 CALENDAR DAYS • PHASE 2e - 2 CALENDAR DAYS	CONSTRUCTION MARKERS AND PERIMETER SECURITY SHALL BE INSTALLED PER PHASING PLANS AND AS REQUIRED BY AC 150/5370-2F OR AS DIRECTED BY THE ENGINEER. ROAD CLOSURE NOTES: - NO ROADS WILL BE CLOSED DURING THIS PHASE. - PARKING LOT AREAS CLOSED. THE CLOSURES WILL HAVE TO BE COORDINATED WITH THE SPONSOR, ENGINEER, AIRPORT OPERATIONS AND THE CITY OF SPRINGFIELD.

OTHER NOTES

- PHASES 2a, 2b, 2c, 2d and 2e MUST BE COMPLETED SEPARATELY OF EACH OTHER. PHASES 2a, 2b, 2c, 2d AND 2e CAN BE COMPLETED CONCURRENTLY WITH PHASES 4, 5, AND 6.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING ROADWAYS BY CONSTRUCTION TRAFFIC AND WILL MAINTAIN THEM AT NO COST TO THE SPONSOR, INCLUDING STATE AND LOCAL ROADWAYS.
- VACUUM AND SWEEPER TRUCKS SHALL BE AVAILABLE AT ALL TIMES TO CLEAN ALL CONSTRUCTION DEBRIS INCLUDING DEBRIS FROM HAUL ROUTE OR AREAS ADJACENT TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING AIRCRAFT PAVEMENT OR AREAS ADJACENT TO CONSTRUCTION.
- WHEN TOWER IS OPEN MONITOR 121.9 MHZ.
- STOCKPILES SHALL BE LESS THAN 20 FEET ABOVE EXISTING GROUND.
- CONTRACTOR SHALL MAINTAIN AIRPORT SECURITY AT ALL TIMES.
- IF ANY VEHICLE OR PEDESTRIAN INCURSION AND/OR SURFACE INCIDENTS OCCUR BY THE CONTRACTOR, THE EMPLOYEE WILL BE REMOVED FROM THE WORK SITE IMMEDIATELY AND SUBJECT TO AIRPORT PROVISIONS.
- PARKING SPACES REMAINING DURING PHASES:
 • DURING PHASE 2a - 739 SPACES REMAINING
 • DURING PHASE 2b - 803 SPACES REMAINING
 • DURING PHASE 2c - 744 SPACES REMAINING
 • DURING PHASE 2d - 766 SPACES REMAINING
 • DURING PHASE 2e - 792 SPACES REMAINING
- CONTRACTOR TO PROVIDE PHASED TRAFFIC DELINEATION TO ENSURE CARS DO NOT PARK IN CURRENT PHASE.
- AIRPORT TO RELOCATE PARKED CARS THAT ARE LEFT OVERNIGHT.
- THIRTY (30) DAYS NOTICE SHALL BE GIVEN TO THE AIRPORT PRIOR TO THE START OF PHASE 2.
- CONTRACTOR TO PROVIDE NOTICE TO THE PARKING LOT PUBLIC TWO WEEKS IN ADVANCE OF ANTICIPATED CONSTRUCTION. ANY VEHICLES LEFT IN THE VICINITY OF THE CONSTRUCTION PHASE SHALL BE RELOCATED AT THE CONTRACTORS EXPENSE.

PHASING LEGEND

	PHASE 1 CONSTRUCTION		CONTRACTOR STAGING AREA
	PHASE 2 CONSTRUCTION		CONTRACTOR HAUL ROUTE/ CONSTRUCTION ACCESS ROUTE
	PHASE 3 CONSTRUCTION		TRAFFIC ACCESS ROUTE
	PHASE 4 CONSTRUCTION		LOW PROFILE BARRICADES (SEE SHEET C603)
	PHASE 5 CONSTRUCTION		ROAD BARRICADES (SEE SHEET C603)
	PHASE 6 CONSTRUCTION		FLAGGER
	PHASE 7 CONSTRUCTION		



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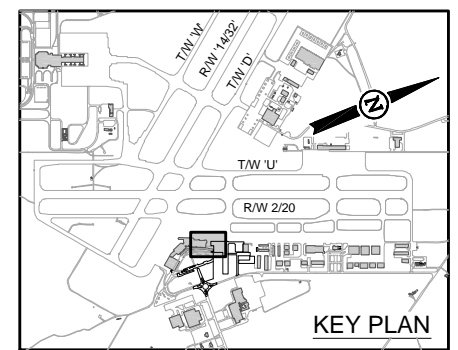
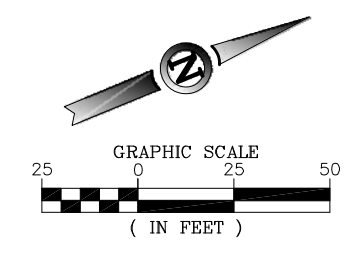
DES: D.W.C.	ISSUE RECORD			
DR: B.A.V.	NO.	BY	DATE	DESCRIPTION
CH: C.L.G.	1	M.J.L.	07/08/13	ISSUE FOR BID
APP: M.J.L.	2	M.J.L.	07/19/13	ADDENDUM #1

W. KEARNEY TERMINAL
 PARKING LOT AND GA
 REDEVELOPMENT

CONSTRUCTION SAFETY DRAWING
 PHASE 2

JVIATION PROJ. NO. AIR 126-092A1
 DATE: 07/08/13

SHEET NAME
 G012
 SHEET NO.
 12 of 130



DEMOLITION LEGEND

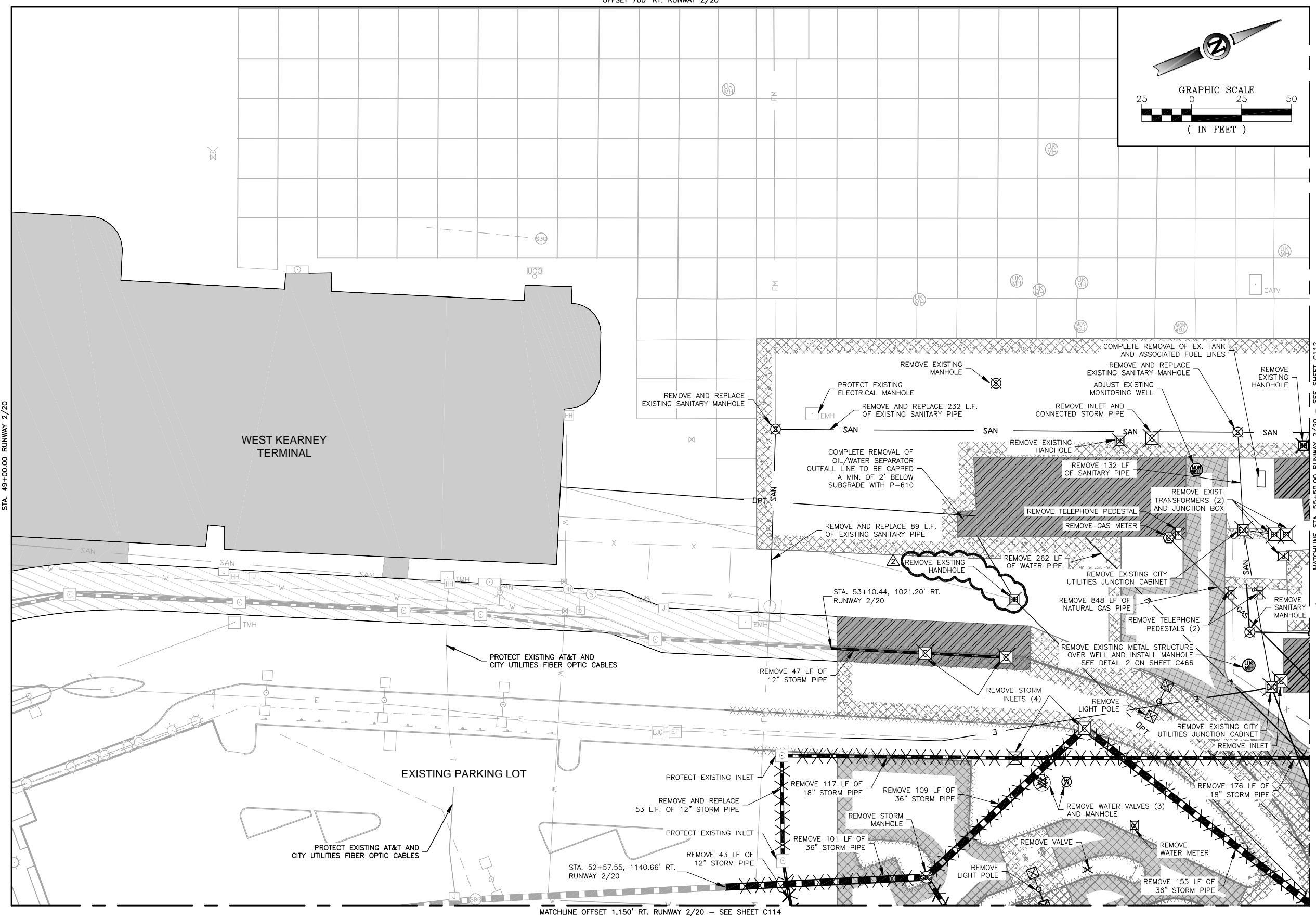
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- E -	REMOVE ELECTRICAL LINE
— OVH —	EXISTING OVERHEAD POWER LINE
- OVH -	REMOVE OVERHEAD POWER LINE
— SAN —	EXISTING SANITARY LINE
- SAN -	REMOVE SANITARY LINE
— W —	EXISTING WATER LINE
- W -	REMOVE WATER LINE
— GAS —	EXISTING GAS LINE
- GAS -	REMOVE GAS LINE
— T —	EXISTING TELEPHONE LINE
- T -	REMOVE TELEPHONE LINE
— X —	EXISTING STORM DRAINPIPE
- X -	REMOVE STORM DRAINPIPE

- NOTES**
- CONTRACTOR SHALL PROTECT ALL AIRFIELD ELECTRICAL AND LIGHT SYSTEMS DURING CONSTRUCTION.
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 - SEE SHEETS C701 THRU C706 FOR ADJUSTMENT OF EXISTING STRUCTURES.
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STA. 49+00.00 RUNWAY 2/20

MATCHLINE STA. 55+50.00 RUNWAY 2/20 - SEE SHEET C112

MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET C114

JVIATION, Inc. 10-10-10-DEM-01
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ISSUE RECORD				
NO.	BY	DATE	DESCRIPTION	
1	M.J.L.	07/08/13	ISSUE FOR BID	
2	M.J.L.	07/19/13	ADDENDUM #1	

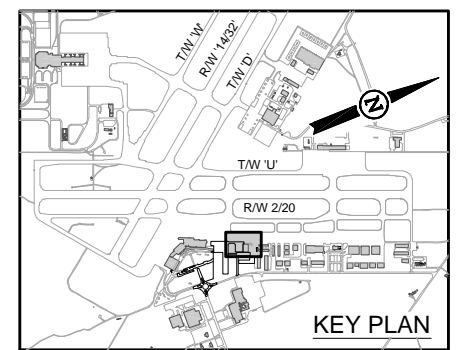
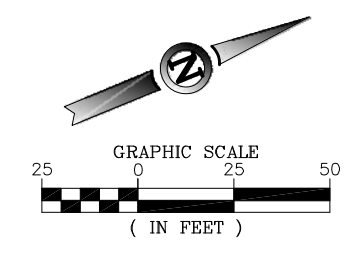
W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

UTILITY DEMOLITION PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
C111

SHEET NO.
24 of 130



DEMOLITION LEGEND

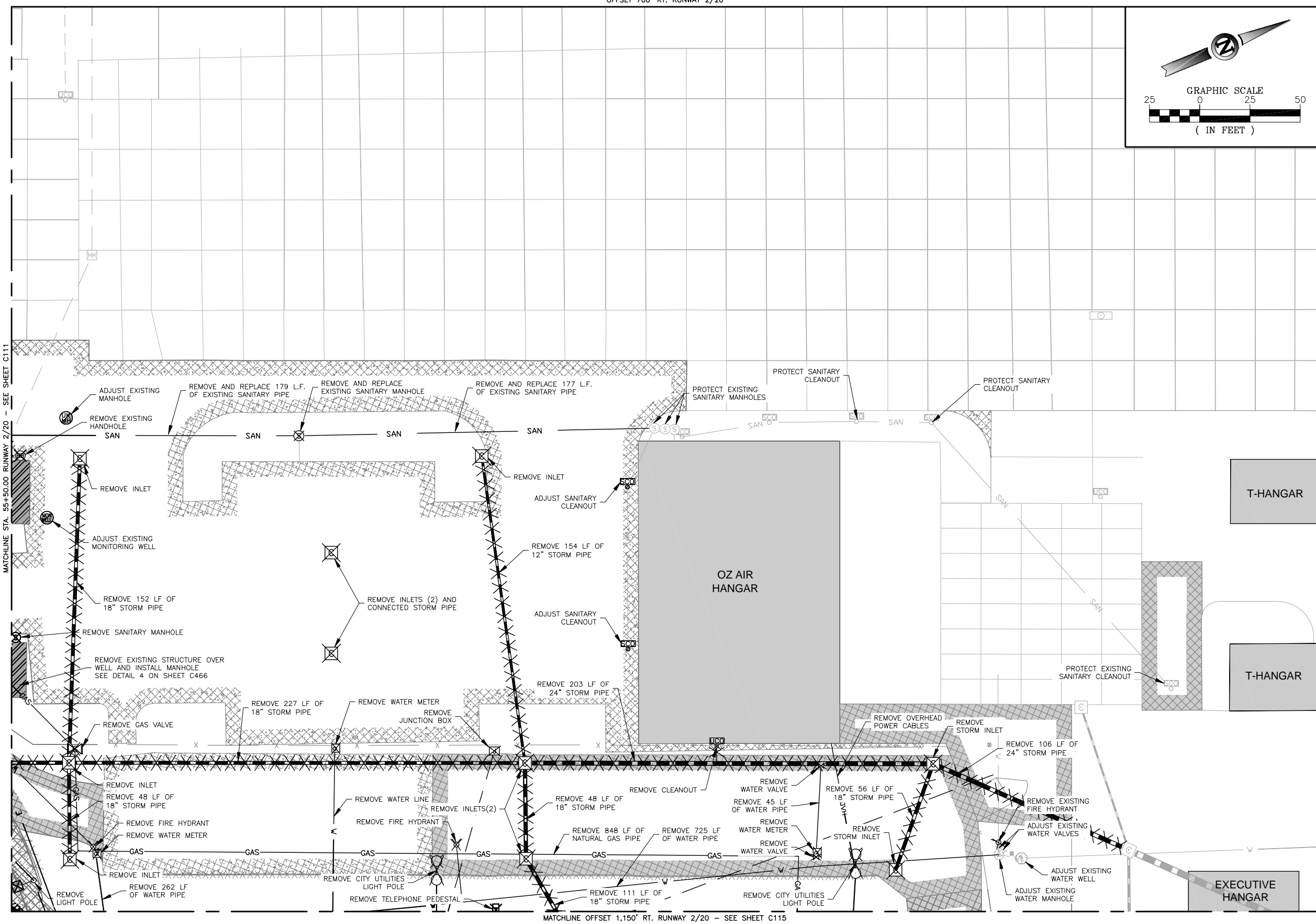
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— SAN —	REMOVE SANITARY LINE
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— W —	REMOVE WATER LINE
— GAS —	EXISTING GAS LINE
— GAS —	REMOVE GAS LINE
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— T —	REMOVE TELEPHONE LINE
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STA. 62+00.00 RUNWAY 2/20

MATCHLINE STA. 55+50.00 RUNWAY 2/20 - SEE SHEET C111

MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET C115

ISSUE RECORD

NO.	BY	DATE	DESCRIPTION
1	M.J.L.	07/08/13	ISSUE FOR BID
2	M.J.L.	07/19/13	ADDENDUM #1

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

UTILITY DEMOLITION PLAN
 STA. 55+50.00 TO 62+00.00 RUNWAY 2/20
 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20

SHEET NAME
C112
SHEET NO.
25 of 130

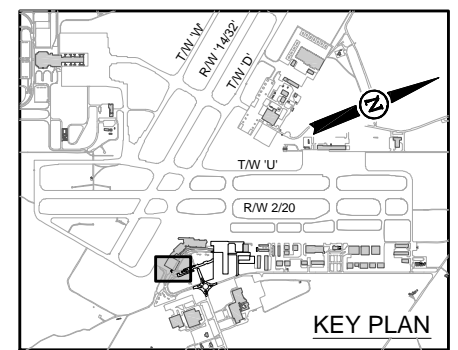
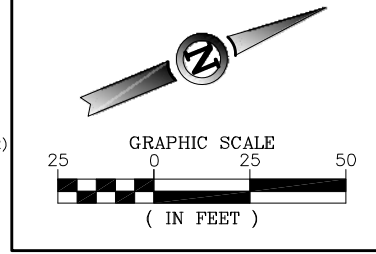
JVIATION PROJ. NO. AIR 126-092A1
 DATE: 07/08/13



DES: D.W.C.
 DR: B.A.V.
 CH: C.L.G.
 APP: M.J.L.

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OFFSET 1,150 RT. RUNWAY 2/20



DEMOLITION LEGEND

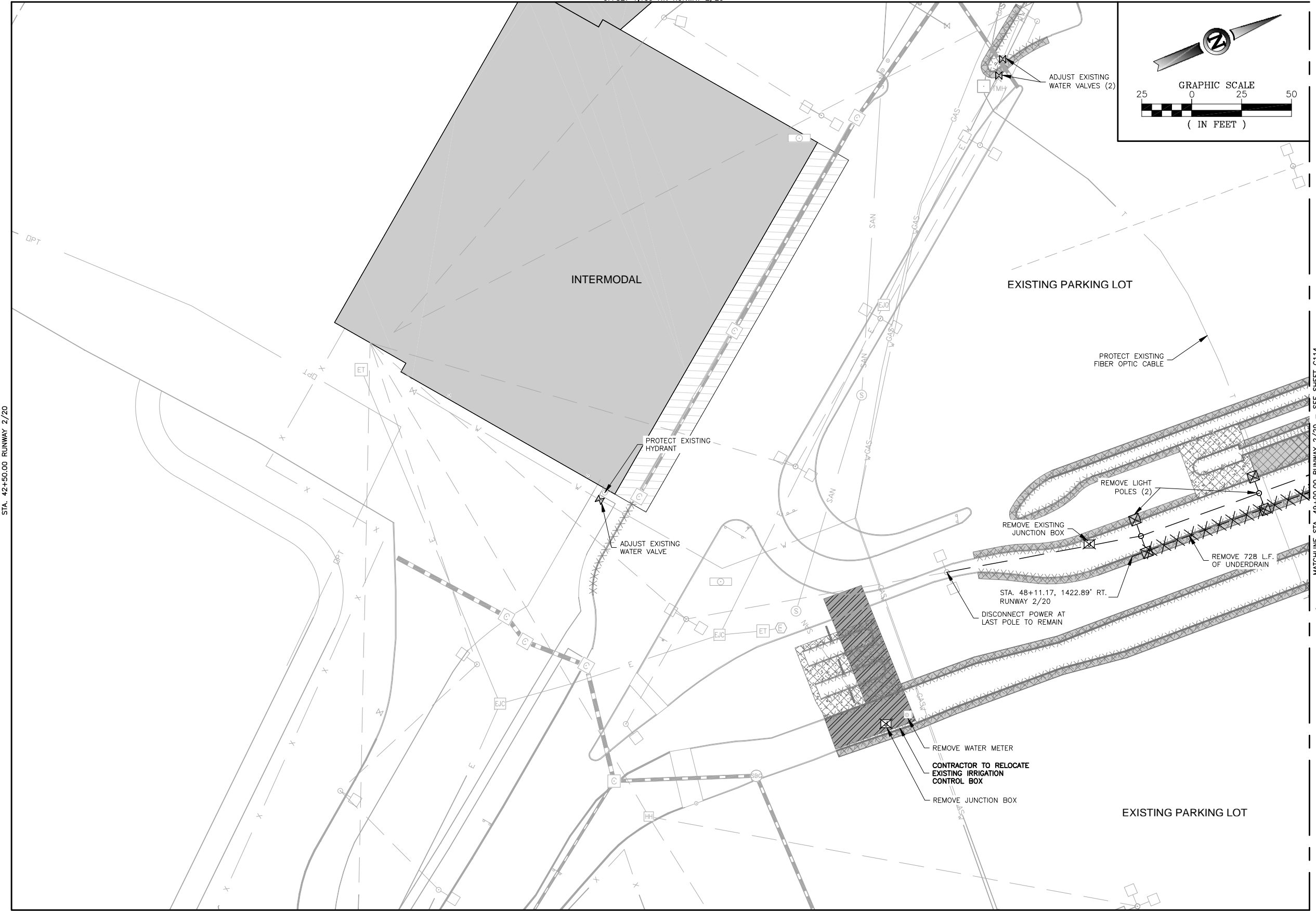
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NAME REG. NO. DATE
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OFFSET 1,600 RT. RUNWAY 2/20

STA. 42+50.00 RUNWAY 2/20

MATCHLINE STA. 49+00.00 RUNWAY 2/20 - SEE SHEET C114

ISSUE RECORD

NO.	BY	DATE	DESCRIPTION
1	M.J.L.	07/08/13	ISSUE FOR BID
2	M.J.L.	07/19/13	ADDENDUM #1

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

UTILITY DEMOLITION PLAN
STA. 42+50.00 TO 49+00.00 RUNWAY 2/20
OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

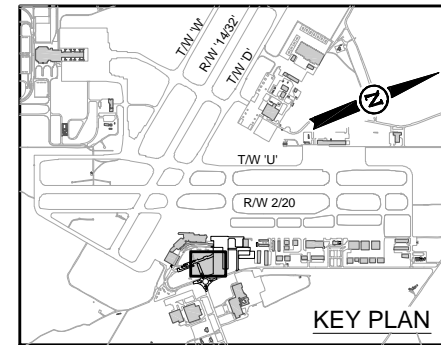
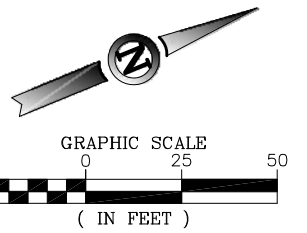
SHEET NAME
C113

SHEET NO.
26 of 130



DES: D.W.C.
DR: B.A.V.
CH: C.L.G.
APP: M.J.L.

I:\Projects\SBF\CA\CA-C113-DEM.dwg
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 Jul 19, 2013 2:59pm
 dcorway



DEMOLITION LEGEND

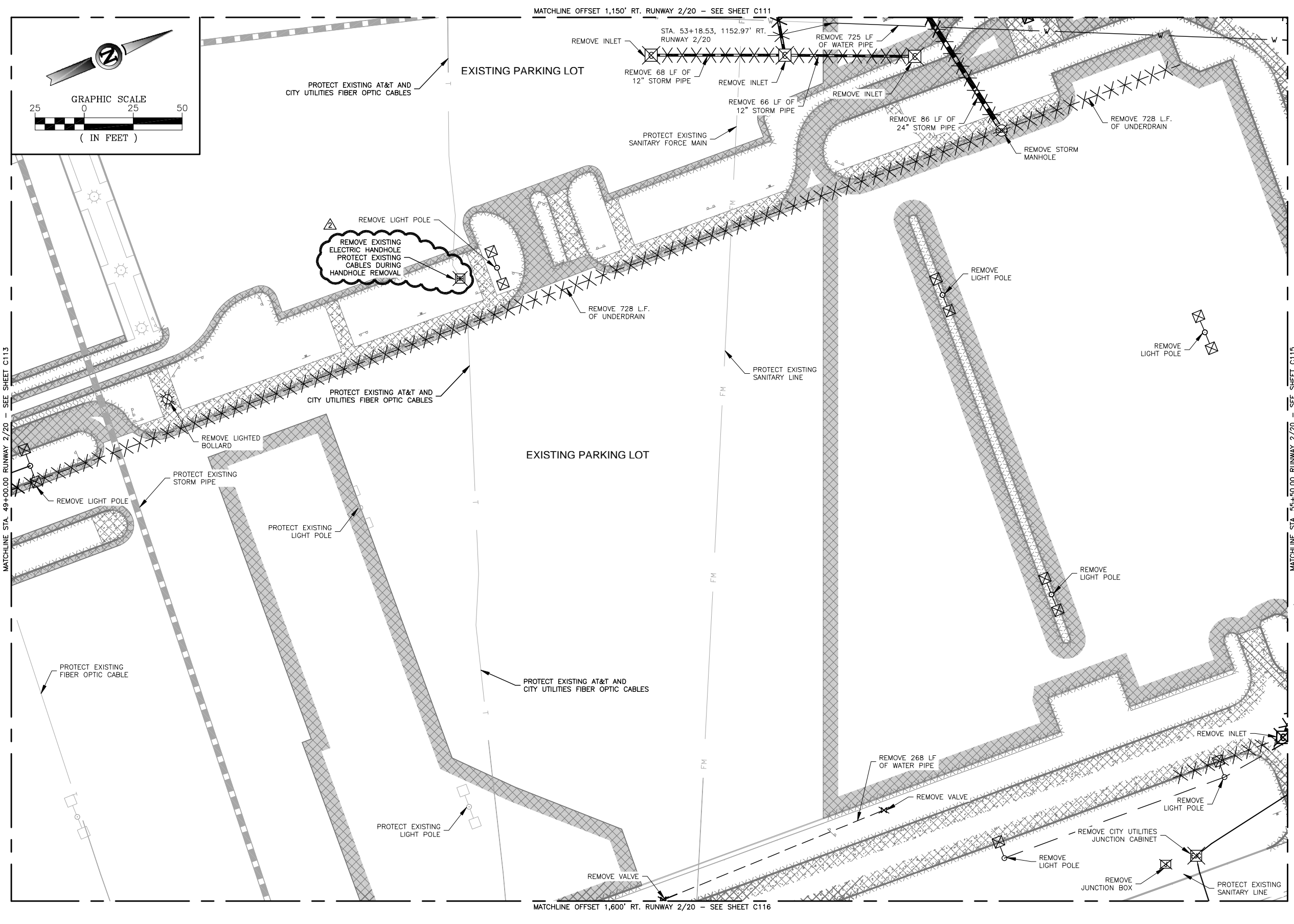
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	REMOVE ELECTRICAL LINE
	EXISTING OVERHEAD POWER LINE
	REMOVE OVERHEAD POWER LINE
	EXISTING SANITARY LINE
	REMOVE SANITARY LINE
	EXISTING WATER LINE
	REMOVE WATER LINE
	EXISTING GAS LINE
	REMOVE GAS LINE
	EXISTING TELEPHONE LINE
	REMOVE TELEPHONE LINE
	EXISTING STORM DRAINPIPE
	REMOVE STORM DRAINPIPE

- NOTES**
- CONTRACTOR SHALL PROTECT ALL AIRFIELD ELECTRICAL AND LIGHT SYSTEMS DURING CONSTRUCTION.
 - CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO WORKING IN THEIR VICINITY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE PERFORMED BY CONTRACTOR AT CONTRACTOR'S EXPENSE AND TO THE APPROVAL OF THE ENGINEER.
 - CONTRACTOR TO EVALUATE IRRIGATION LINES SERVING ISLANDS TO BE REMOVED, AND CAP THE LINES APPROPRIATELY TO ENSURE FULL SERVICE.
 - CONTRACTOR TO COORDINATE ANY NECESSARY SHUT DOWN OF UTILITIES WITH THE APPROPRIATE UTILITY COMPANY OR CITY AGENCY BEFORE REMOVAL.
 - CONTRACTOR TO COORDINATE THE TIMING OF UTILITY SHUT DOWNS WITH THE AFFECTED TENANTS AND CITY UTILITIES BEFORE SHUT DOWNS OCCUR.
 - ANY UTILITY WORK IN PAVEMENT FOR REMOVAL SHALL INCLUDE ALL COSTS TO RESTORE TRENCHED AREAS. ALL COSTS SHALL BE INCIDENTAL TO RESPECTIVE BID ITEM.
 - SEE SHEETS C701 THRU C706 FOR ADJUSTMENT OF EXISTING STRUCTURES.
 - CONDUITS, ELECTRIC LINES, AND DUCT BANKS MARKED FOR REMOVAL ON UTILITY DEMOLITION SHEETS MAY BE ABANDONED IN PLACE IF THEY ARE NOT DISTURBED DURING CONSTRUCTION ACTIVITIES. ANY CONDUIT, ELECTRIC LINES, OR DUCT BANK ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED. NO PAYMENT SHALL BE MADE FOR REMOVAL OF CONDUITS, DUCT BANKS, AND ELECTRIC LINES.

**ISSUE FOR BID
NOT FOR CONSTRUCTION**

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MARK J. LOVATO PE-2009002094 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.



ISSUE RECORD

NO.	BY	DATE	DESCRIPTION
1	M.J.L.	07/08/13	ISSUE FOR BID
2	M.J.L.	07/19/13	ADDENDUM #1

DES: D.W.C.
DR: B.A.V.
CH: C.L.G.
APP: M.J.L.

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

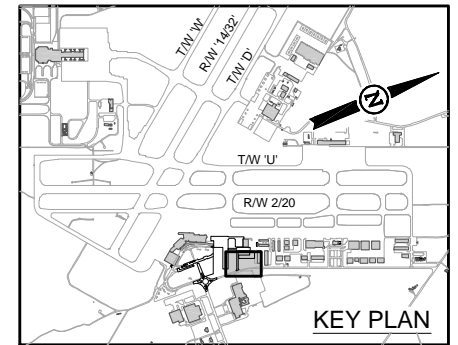
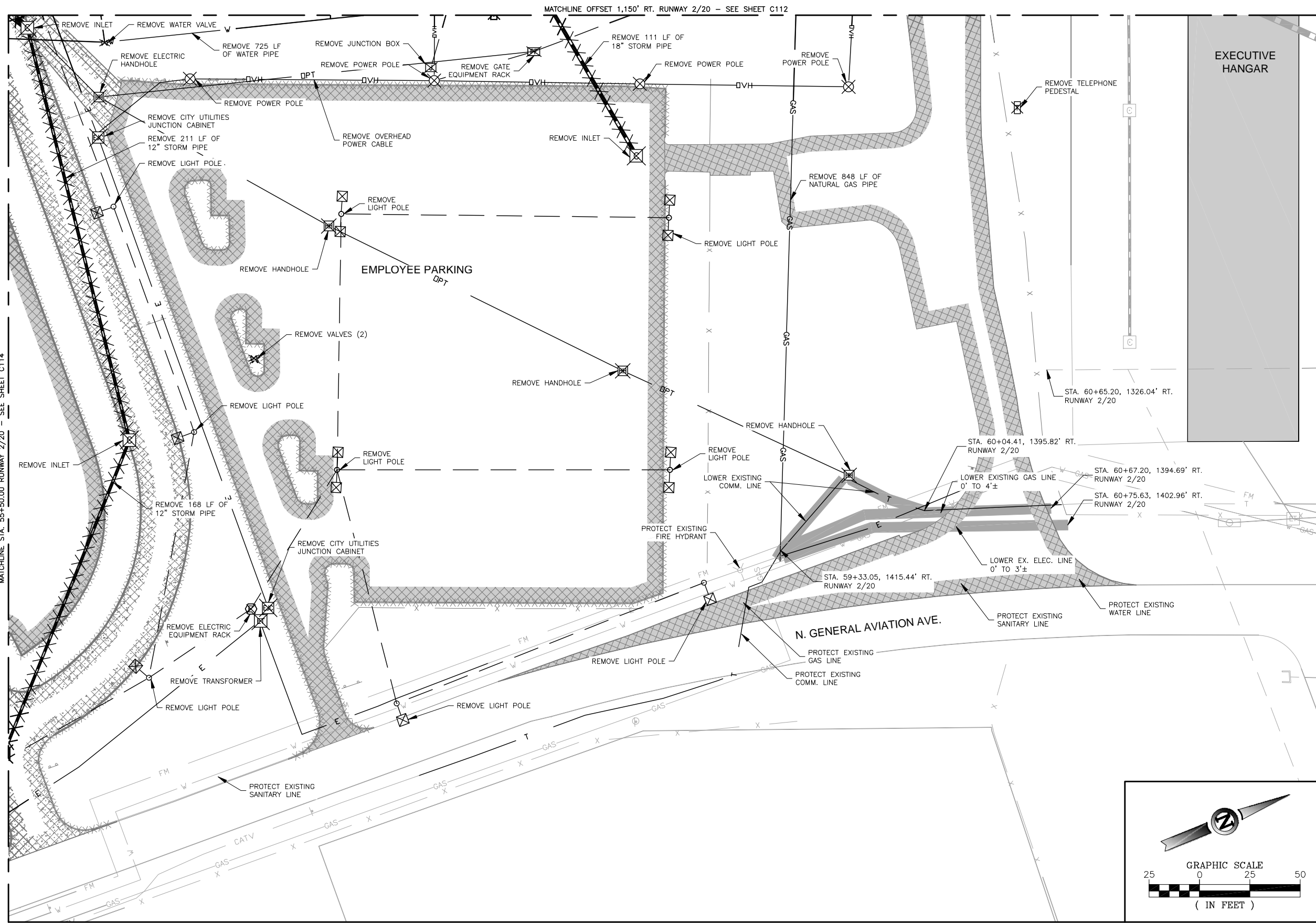
UTILITY DEMOLITION PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
C114
SHEET NO.
27 of 130



010-506-0001-010-000-000
 Jul 19, 2013 2:59pm
 dconway



DEMOLITION LEGEND

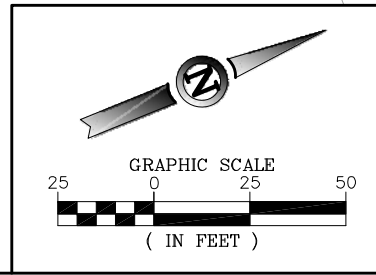
— E —	EXISTING ELECTRICAL LINE
- E -	REMOVE ELECTRICAL LINE
— OVH —	EXISTING OVERHEAD POWER LINE
- OVH -	REMOVE OVERHEAD POWER LINE
— SAN —	EXISTING SANITARY LINE
- SAN -	REMOVE SANITARY LINE
— W —	EXISTING WATER LINE
- W -	REMOVE WATER LINE
— GAS —	EXISTING GAS LINE
- GAS -	REMOVE GAS LINE
— T —	EXISTING TELEPHONE LINE
- T -	REMOVE TELEPHONE LINE
— X —	EXISTING STORM DRAINPIPE
- X -	REMOVE STORM DRAINPIPE

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 NAME REG. NO. DATE
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OFFSET 1,600' RT. RUNWAY 2/20

010-SQ-COA-C110-DEM-01
 Jul 19, 2013 2:59pm
 dcorway



ISSUE RECORD				
DES: D.W.C.	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: M.J.L.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

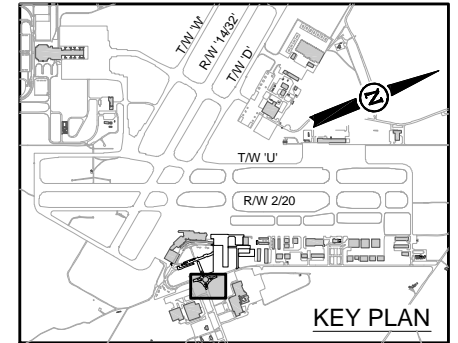
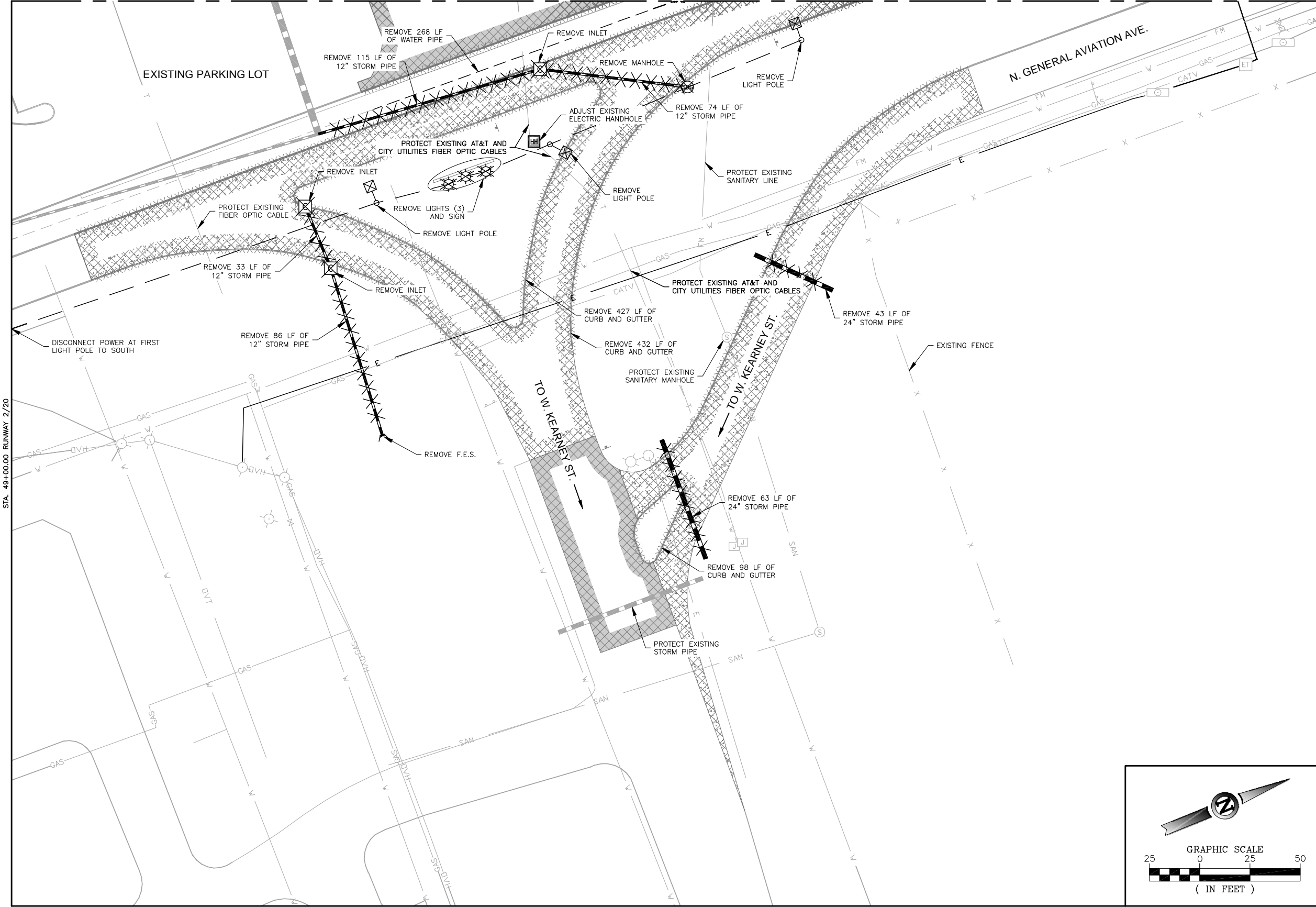
UTILITY DEMOLITION PLAN
 STA. 55+50.00 TO 62+00.00 RUNWAY 2/20
 OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
 DATE: 07/08/13

SHEET NAME
C115

SHEET NO.
28 of 130

MATCHLINE OFFSET 1,600' RT. RUNWAY 2/20 - SEE SHEET C114



DEMOLITION LEGEND

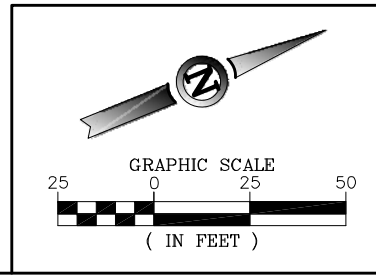
— E —	EXISTING ELECTRICAL LINE
- E -	REMOVE ELECTRICAL LINE
— OVH —	EXISTING OVERHEAD POWER LINE
- OVH -	REMOVE OVERHEAD POWER LINE
— SAN —	EXISTING SANITARY LINE
- SAN -	REMOVE SANITARY LINE
— W —	EXISTING WATER LINE
- W -	REMOVE WATER LINE
— GAS —	EXISTING GAS LINE
- GAS -	REMOVE GAS LINE
— T —	EXISTING TELEPHONE LINE
- T -	REMOVE TELEPHONE LINE
— X —	EXISTING STORM DRAINPIPE
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MARK J. LOVATO PE-2009002094 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.



OFFSET 2,050' RT. RUNWAY 2/20

010-SPE-CAD-C110-DEM-01.dwg
 Jul 19, 2013 3:00pm
 dcorway



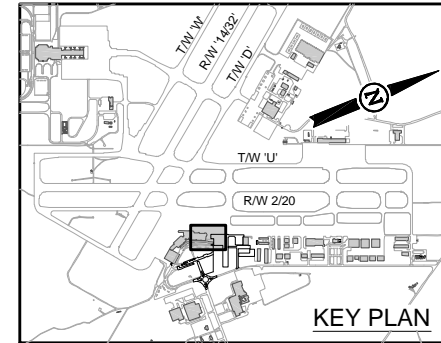
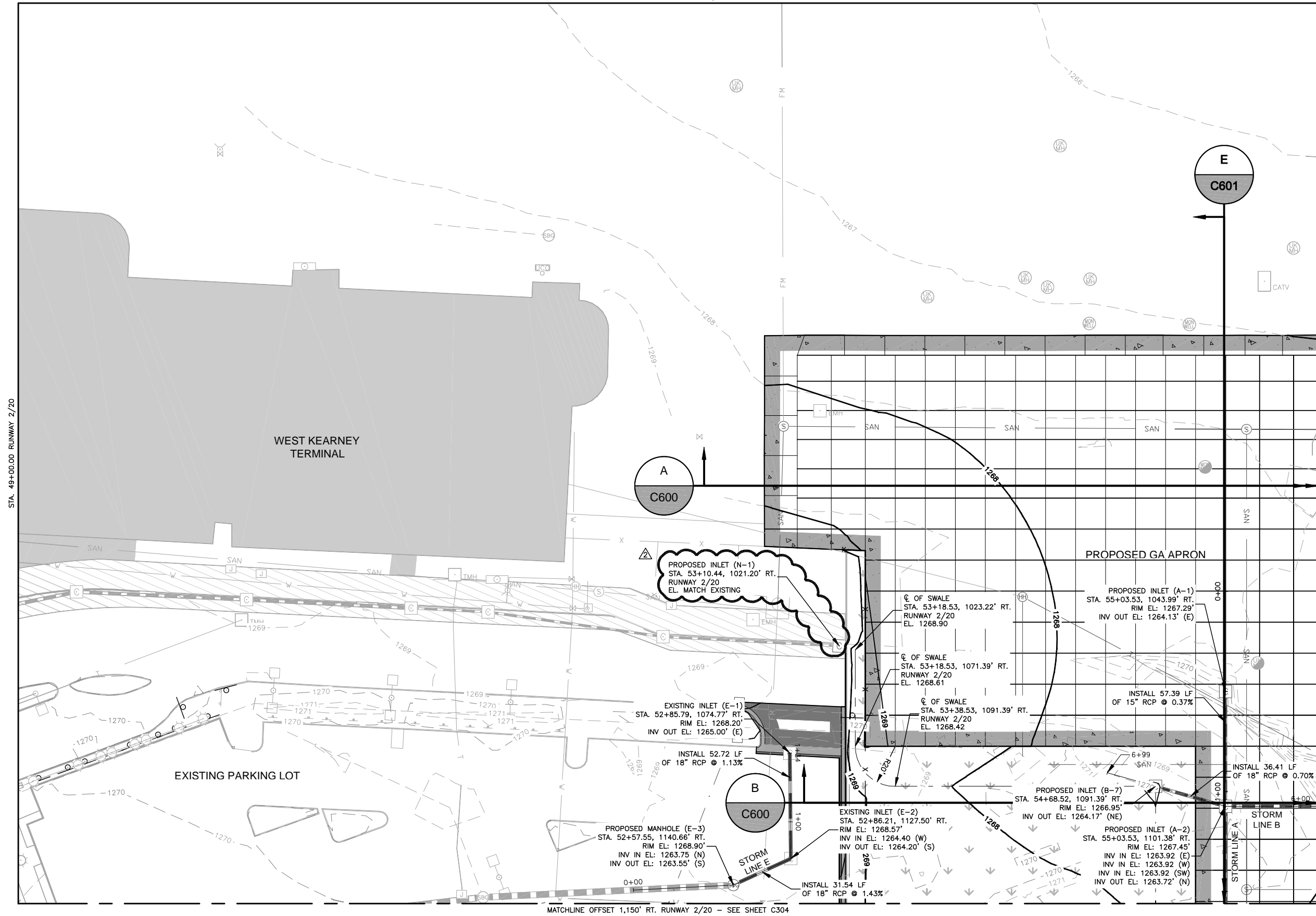
ISSUE RECORD				
DES: D.W.C.	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: M.J.L.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

UTILITY DEMOLITION PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 1,600' RT. TO 2,050' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

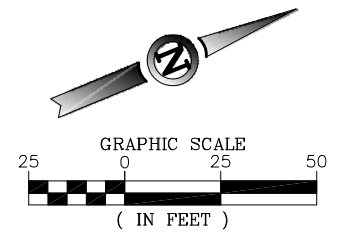
SHEET NAME
C116
SHEET NO.
29 of 130



GRADING LEGEND

- 1245--- EXISTING INDEX CONTOUR
- 1244--- EXISTING INTERMEDIATE CONTOUR
- 1245—** PROPOSED INDEX CONTOUR
- 1244—** PROPOSED INTERMEDIATE CONTOUR
- ⊙ PROPOSED STORM MANHOLE
- ⊕ PROPOSED STORM INLET
- ∨ PROPOSED STORM F.E.S.
- PROPOSED STORM DRAINPIPE

- NOTES**
1. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THEIR OPERATIONS OUTSIDE OF THE GRADING LIMITS AT THEIR OWN EXPENSE. THIS INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADING, TOPSOILING, TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
 2. ENGINEER IDENTIFIED STAGING AREA, STOCKPILE AREAS, AND HAUL ROUTES SHALL BE RESTORED AS DESCRIBED ABOVE, AND AT THE DISCRETION OF THE ENGINEER. NO ADDITIONAL COST TO THE SPONSOR SHALL BE INCURRED FOR THESE WORK ITEMS.
 3. SEE SHEET C950 FOR SEEDING AND EROSION CONTROL REQUIREMENTS AND DETAILS.
 4. WASTE MATERIAL SHALL BE HAULED AND PLACED AT THE DESIGNATED STOCKPILE AREA.



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NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET C304

030-SGF-CA-C300-C301-GRD.dwg
 Jul 19, 2013 3:00pm
 dcorway



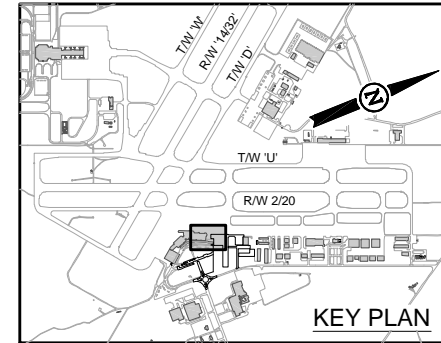
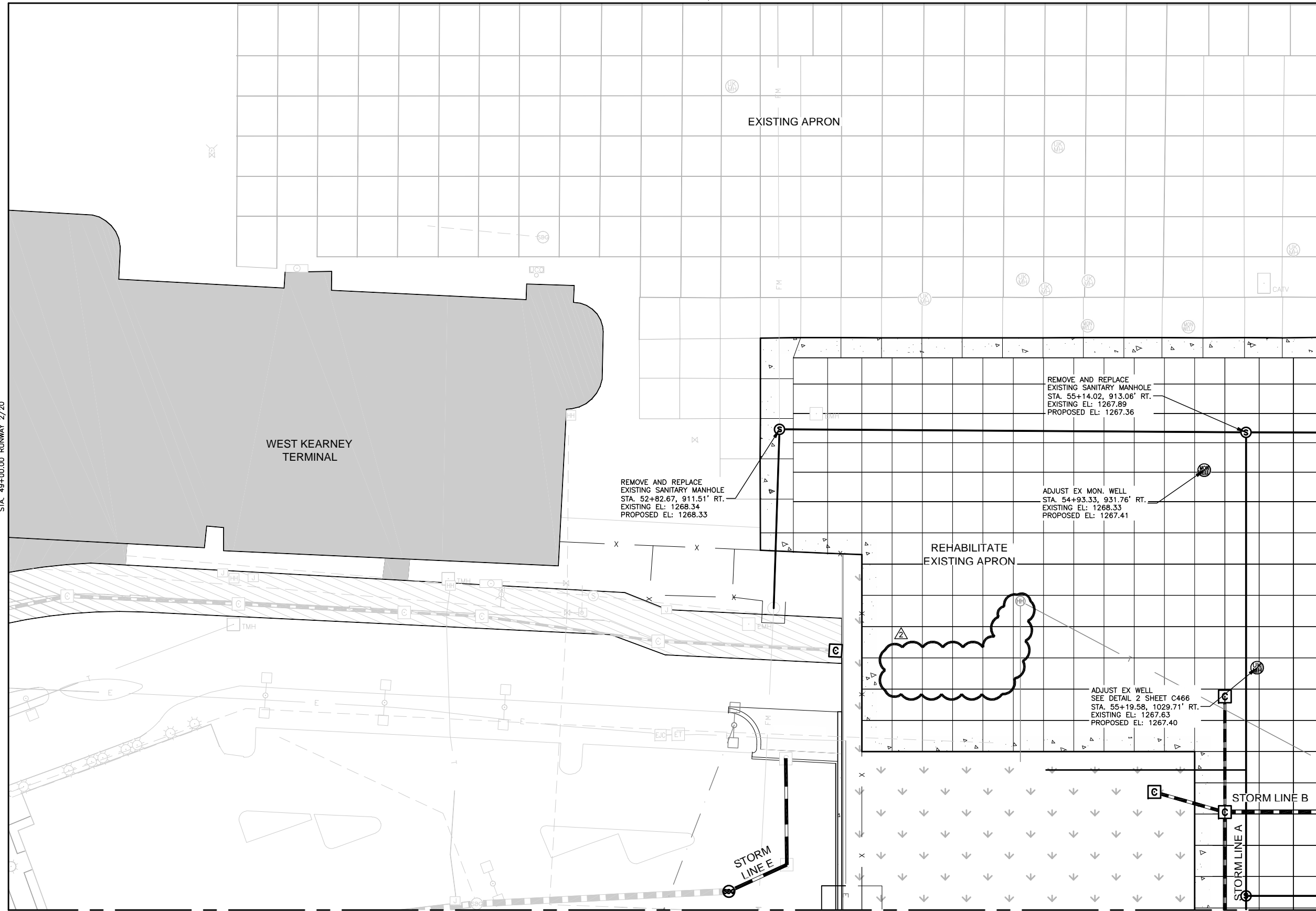
ISSUE RECORD				
DES: D.W.C.	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: M.J.L.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

GRADING AND DRAINAGE PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

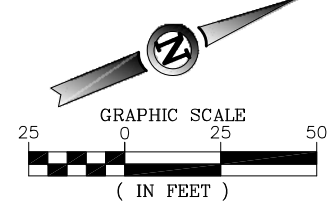
SHEET NAME
C301
SHEET NO.
42 of 130



UTILITY LEGEND

	EXISTING STORM LINE
	PROPOSED STORM LINE
	EXISTING UNDERDRAIN LINE
	EXISTING SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	EXISTING WATER LINE
	PROPOSED WATER LINE
	EXISTING GAS LINE
	PROPOSED GAS LINE
	JOINT SERVICE TRENCH
	EXISTING STORM MANHOLE
	PROPOSED STORM MANHOLE
	EXISTING STORM INLET
	PROPOSED STORM INLET
	EXISTING FLARED END SECTION
	EXISTING UNDERDRAIN CLEAN OUT
	EXISTING SANITARY MANHOLE
	PROPOSED SANITARY MANHOLE
	EXISTING SANITARY CLEANOUT
	EXISTING FIRE HYDRANT
	EXISTING WATER MANHOLE
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING WATER WELL
	EXISTING GAS METER
	EXISTING UNKNOWN MANHOLE

- NOTES**
- FOR ELECTRICAL/COMMUNICATION INFORMATION SEE SHEETS E201-E351.
 - FOR UTILITY PLAN AND PROFILE INFORMATION SEE SHEETS C451-C462.



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MARK J. LOVATO PE-2009002094 07/08/13
 NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET C704

070-SGF-CA-C701-UTIL.dwg
 Jul 19, 2013 - 3:03 pm
 dcorway



ISSUE RECORD				
DES: D.W.C.	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: M.J.L.				

W. KEARNEY TERMINAL
 PARKING LOT AND GA
 REDEVELOPMENT

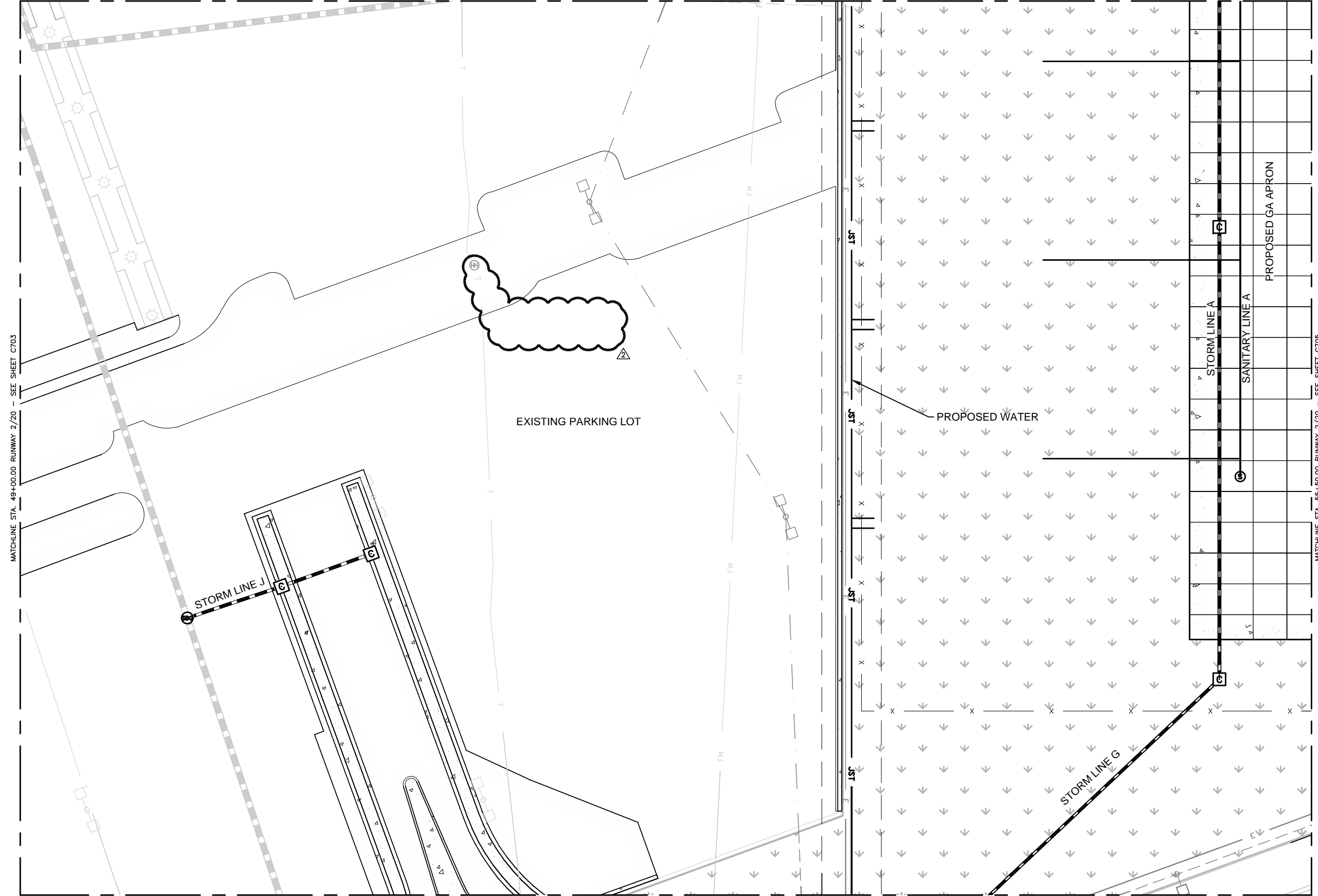
UTILITY LAYOUT PLAN
 STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
 OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
 DATE: 07/08/13

SHEET NAME
 C701

SHEET NO.
 91 of 130

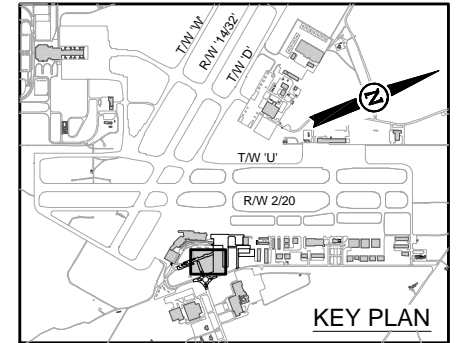
MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET C701



MATCHLINE STA. 49+00.00 RUNWAY 2/20 - SEE SHEET C703

MATCHLINE STA. 55+50.00 RUNWAY 2/20 - SEE SHEET C705

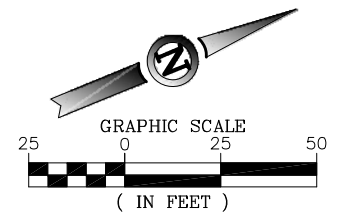
MATCHLINE OFFSET 1,600' RT. RUNWAY 2/20 - SEE SHEET C706



UTILITY LEGEND

	EXISTING STORM LINE
	PROPOSED STORM LINE
	EXISTING UNDERDRAIN LINE
	EXISTING SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	EXISTING WATER LINE
	PROPOSED WATER LINE
	EXISTING GAS LINE
	PROPOSED GAS LINE
	JOINT SERVICE TRENCH
	EXISTING STORM MANHOLE
	PROPOSED STORM MANHOLE
	EXISTING STORM INLET
	PROPOSED STORM INLET
	EXISTING FLARED END SECTION
	EXISTING UNDERDRAIN CLEAN OUT
	EXISTING SANITARY MANHOLE
	PROPOSED SANITARY MANHOLE
	EXISTING SANITARY CLEANOUT
	PROPOSED SANITARY CLEANOUT
	EXISTING FIRE HYDRANT
	EXISTING WATER MANHOLE
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING WATER WELL
	EXISTING GAS METER
	EXISTING UNKNOWN MANHOLE

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 - FOR UTILITY PLAN AND PROFILE INFORMATION SEE SHEETS C451-C462.



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NAME REG. NO. DATE
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070-SGF-CA-C701-UTIL.dwg
 Jul 19, 2013 - 3:01pm
 dcorway



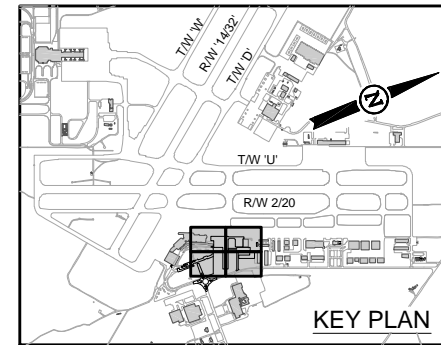
ISSUE RECORD				
DES: D.W.C.	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: M.J.L.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

UTILITY LAYOUT PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
C704
SHEET NO.
94 of 130



KEY PLAN

LEGEND

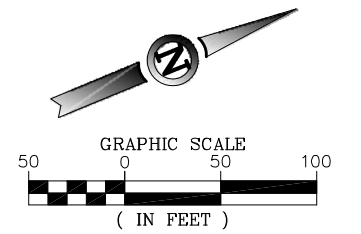
- EXISTING FENCE
- TEMPORARY FENCE
- PROPOSED 8' CHAIN LINK FENCE

NOTES

1. FENCE CAN ONLY BE REMOVED AFTER TEMPORARY FENCE IS INSTALLED. FOR FENCE REMOVAL LOCATION, SEE SHEETS C101 THRU C106.
2. SEE SHEETS C751 AND C752 FOR FENCE DETAILS.
3. TEMPORARY FENCE SHALL NOT BE PLACED UNTIL PHASE 7 CONCRETE HAS MET 400 P.S.I. MIN. FLEXURAL STRENGTH, OR 5 DAYS.
4. TEMPORARY FENCE WILL NEED TO BE RELOCATED DURING CONSTRUCTION OF NORTH EDGE OF PAVEMENT OF PHASE 5

TEMPORARY FENCE	
POINT NO.	STATION AND OFFSET (RUNWAY 2/20)
1	STA. 52+64.79, 971.15' RT.
2	STA. 52+64.79, 856.38' RT.
3	STA. 58+98.53, 856.38' RT.
4	STA. 58+98.53, 916.03' RT.
5	STA. 59+62.02, 1037.01' RT.
6	STA. 60+77.20, 1037.01' RT.
7	STA. 60+77.20, 1397.86' RT.
8	STA. 57+11.53, 856.38' RT.
9	STA. 57+11.53, 1066.38' RT.
10	STA. 58+61.79, 1066.38' RT.

PERMANENT FENCE	
POINT NO.	STATION AND OFFSET (RUNWAY 2/20)
1	STA. 52+73.08, 971.50' RT.
2	STA. 53+23.53, 973.65' RT.
3	STA. 53+23.53, 1507.33' RT.
4	STA. 56+77.80, 1507.33' RT.
5	STA. 57+29.49, 1488.89' RT.
6	STA. 57+34.03, 1482.51' RT.
7	STA. 57+34.03, 1137.88' RT.
8	STA. 55+88.53, 1137.88' RT.
9	STA. 55+88.53, 1066.38' RT.
10	STA. 58+61.79, 1066.38' RT.
11	STA. 59+62.02, 1066.38' RT.
12	STA. 59+62.02, 1070.38' RT.
13	STA. 59+98.53, 1070.38' RT.
14	STA. 59+98.53, 1138.88' RT.
15	STA. 57+76.70, 1138.88' RT.
16	STA. 57+76.70, 1384.38' RT.
17	STA. 60+47.20, 1384.38' RT.
18	STA. 60+77.20, 1397.86' RT.



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"NO TRESPASSING" SIGN TO PLACED ALONG ENTIRE LENGTH OF PERIMETER FENCE AT A MIN. SPACING OF 300' - SEE DETAIL 2 SHT. C751



ISSUE RECORD				
NO.	BY	DATE	DESCRIPTION	
1	M.J.L.	07/08/13	ISSUE FOR BID	
2	M.J.L.	07/19/13	ADDENDUM #1	

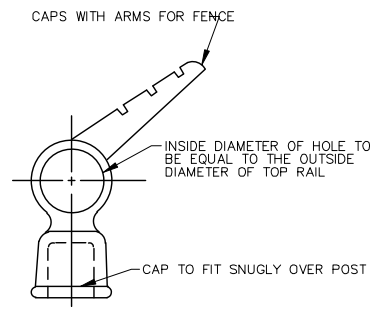
W. KEARNEY TERMINAL
 PARKING LOT AND GA
 REDEVELOPMENT

TEMPORARY AND PERMANENT
 FENCE LAYOUT PLAN

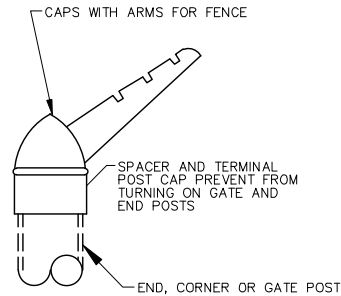
SHEET NAME
 C750
 SHEET NO.
 98 of 130

JVIATION PROJ. NO. AIR 126-092A1
 DATE: 07/08/13

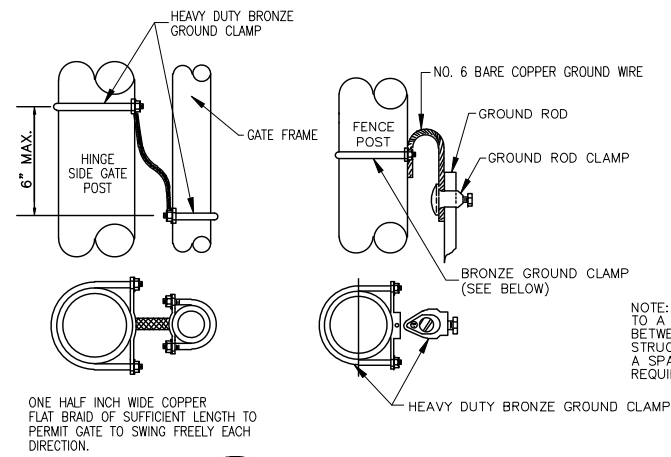
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 JVIATION, INC.
 DEVELOPMENT
 PROJECTS



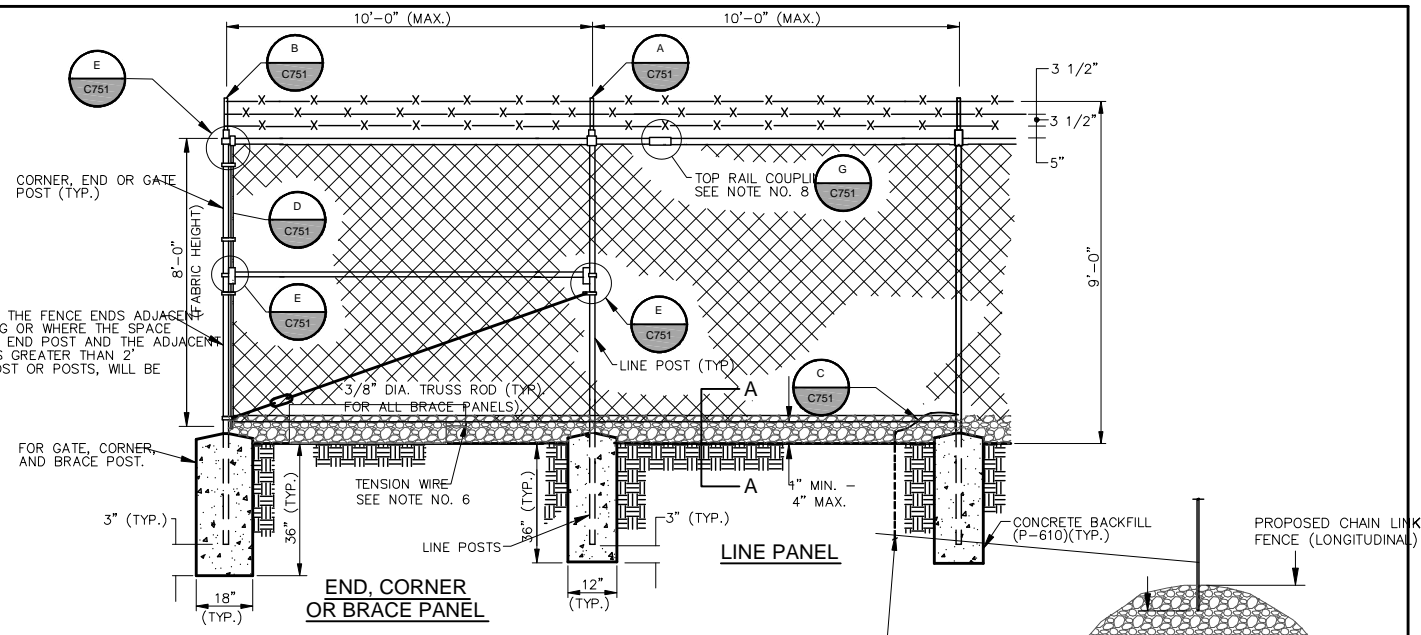
A
C751
LINE POST CAP AND TOP RAIL SUPPORT
N.T.S.



B
C751
SPACER AND TERMINAL POST CAP
N.T.S.

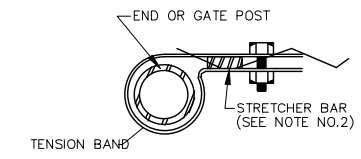


C
C751
GATE GROUND STRAP CONNECTION
N.T.S.

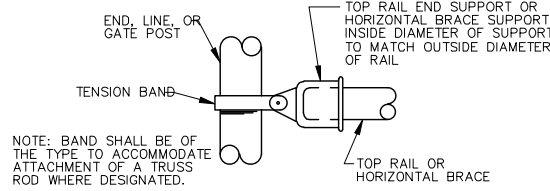


1
C750
TYPICAL CHAIN LINK FENCE DETAIL
N.T.S.

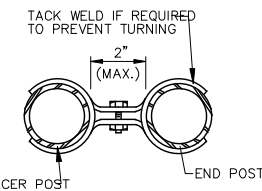
FENCE GROUNDING:
THE CONTRACTOR SHALL INSTALL A 5/8"x 8" COPPER WELD, OR APPROVED EQUAL, GROUND ROD ADJACENT TO POST. ONE GROUND ROD SHALL BE PLACED IN EACH FENCE SECTION WITH A MAXIMUM SPACING OF 1000'.
A NO. 6 BARE COPPER WIRE SHALL EXTEND UPWARD FROM THE GROUND ROD AND BE CLAMPED TO CHAIN LINK FABRIC AND FENCE POST. GROUND RODS ARE REQUIRED ON BOTH SIDES OF GATES.



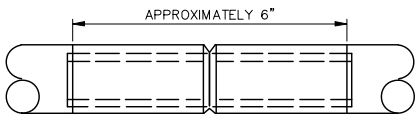
D
C751
TENSION BAND AND STRETCHER BAR
N.T.S.



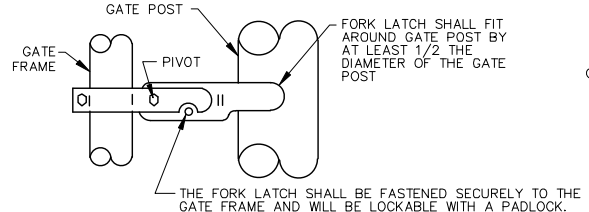
E
C751
TOP RAIL END OR HORIZONTAL BRACE SUPPORT
N.T.S.



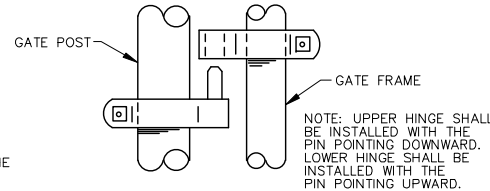
F
C751
SPACER POST DETAIL
N.T.S.



G
C751
TOP RAIL COUPLING
N.T.S.
NOTE: PROVIDE EXPANSION COUPLING EVERY SIXTH ONE



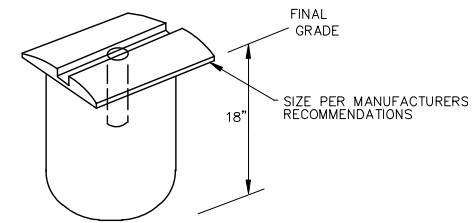
H
C751
FORK LOCK FOR SWING GATE
N.T.S.



I
C751
HINGE ASSEMBLY
N.T.S.

NOTES

- THE CONTRACTOR SHALL PROVIDE AND INSTALL GALVANIZED FENCES AND GATES COMPLETE, INCLUDING ALL ERECTION, ACCESSORIES, FITTINGS, AND FASTENERS.
- STRETCHER BARS WILL BE THE FULL HEIGHT OF THE FABRIC WITH A MINIMUM CROSS SECTION OF 1/4" X 3/4". STRETCHER BARS WILL BE USED ON EACH GATE AND AT CORNER, PULL, GATE, AND END POSTS. TENSION BANDS FOR SECURING STRETCHER BARS TO POSTS WILL BE SPACED 14" ON CENTERS OR LESS
- TIE WIRES (9 GA. GALVANIZED) WILL BE USED TO FASTEN THE CHAIN LINK FABRIC SECURELY TO (A) THE TOP RAIL ON FENCES AND GATES, (B) LINE POSTS, (C) HORIZONTAL BRACES, AND (D) THE BOTTOM RAIL ON ALL GATES. WIRE SHALL BE GIVEN AT LEAST TWO TWISTS.
- DIAGONAL TRUSS RODS WILL BE 3/8" DIAMETER GALVANIZED STEEL RODS EQUIPPED WITH A TURN BUCKLE OR EQUIVALENT ADJUSTMENT DEVICE. TRUSS RODS REQUIRED FOR EACH CORNER AND END POST. TRUSS RODS SHALL HAVE THREADED ENDS OR APPROVED EQUAL.
- ALL STEEL MATERIAL TO BE GALVANIZED BY THE HOT DIP PROCESS.
- TENSION WIRE NO.7 GA. GALVANIZED COILED SPRING WIRE ATTACHED WITH GALVANIZED FASTENERS.
- CHAIN LINK FABRIC WILL BE INSTALLED ON THE LINE POST AWAY FROM THE APRON AREAS, TAXIWAY, OR RUNWAYS.
- TOP RAIL COUPLINGS WILL BE INSTALLED WHERE NECESSARY TO CONTINUE TOP RAIL ENTIRE LENGTH OF FENCE. EVERY SIXTH COUPLING WILL BE EQUIPPED WITH EXPANSION SPRINGS.
- BARBED WIRE ARMS SHALL BE INTEGRAL WITH A POST TOP WEATHER CAP OR SHALL HAVE A HOLE FOR PASSAGE OF TOP RAIL.
- BARBED WIRE ARMS SHALL BE CAPABLE OF WITHSTANDING WITHOUT FAILURE, 250 LBS. DOWNWARD PULL AT OUTERMOST END OF ARM.
- BRACE PANELS SHALL BE INSTALLED IN LONG STRAIGHT FENCE LINES TO PREVENT STRETCHING DISTANCES IN EXCESS OF 500 FEET.
- THE CONTRACTOR SHALL PROVIDE MATERIALS SUBMITTALS FOR THE ENGINEERS APPROVAL PRIOR TO ORDERING.
- THE CHAIN LINK FABRIC SHALL BE WOVEN WITH A 9 GAUGE STEEL WIRE IN A 2 INCH (50 MM) MESH.



J
C751
CENTER POST DETAIL
N.T.S.

NO TRESPASSING

AUTHORIZED PERSONNEL ONLY

VIOLATORS SUBJECT TO PROSECUTION

UNDER 49 CFR PART 1542

TRANSPORTATION SECURITY REGULATIONS

AND FOR TRESPASSING UNDER

SPRINGFIELD CITY CODE

MATCH EXISTING "NO TRESPASSING" SIGN DIMENSIONS

"NO TRESPASSING" SIGN

N.T.S.

NOTE: NEW "NO TRESPASSING SIGNS ARE INCIDENTAL TO PAY ITEM F-162A

ISSUE FOR BID
NOT FOR CONSTRUCTION

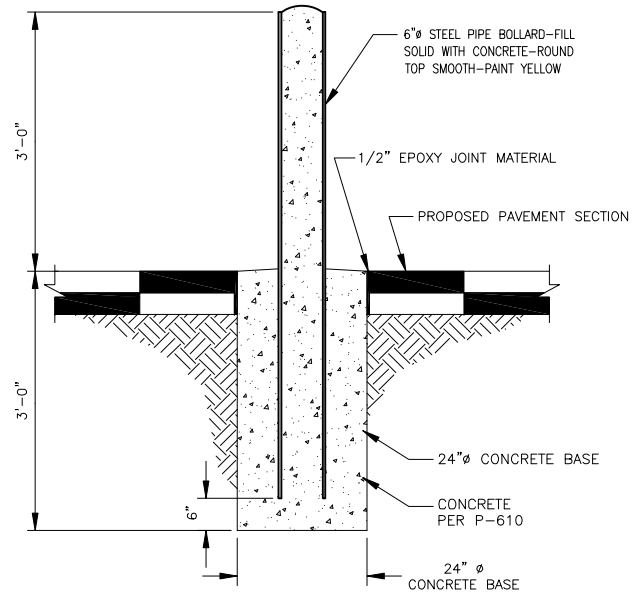
THESE DRAWINGS ARE FOR BIDDING AND CONSTRUCTION USE AND ARE NOT A RECORD SET AS DEFINED BY LAW. THE RECORD SETS ARE SIGNED AND SEALED BY:

MARK J. LOVATO	PE-200902094	07/08/13
NAME	REG. NO.	DATE

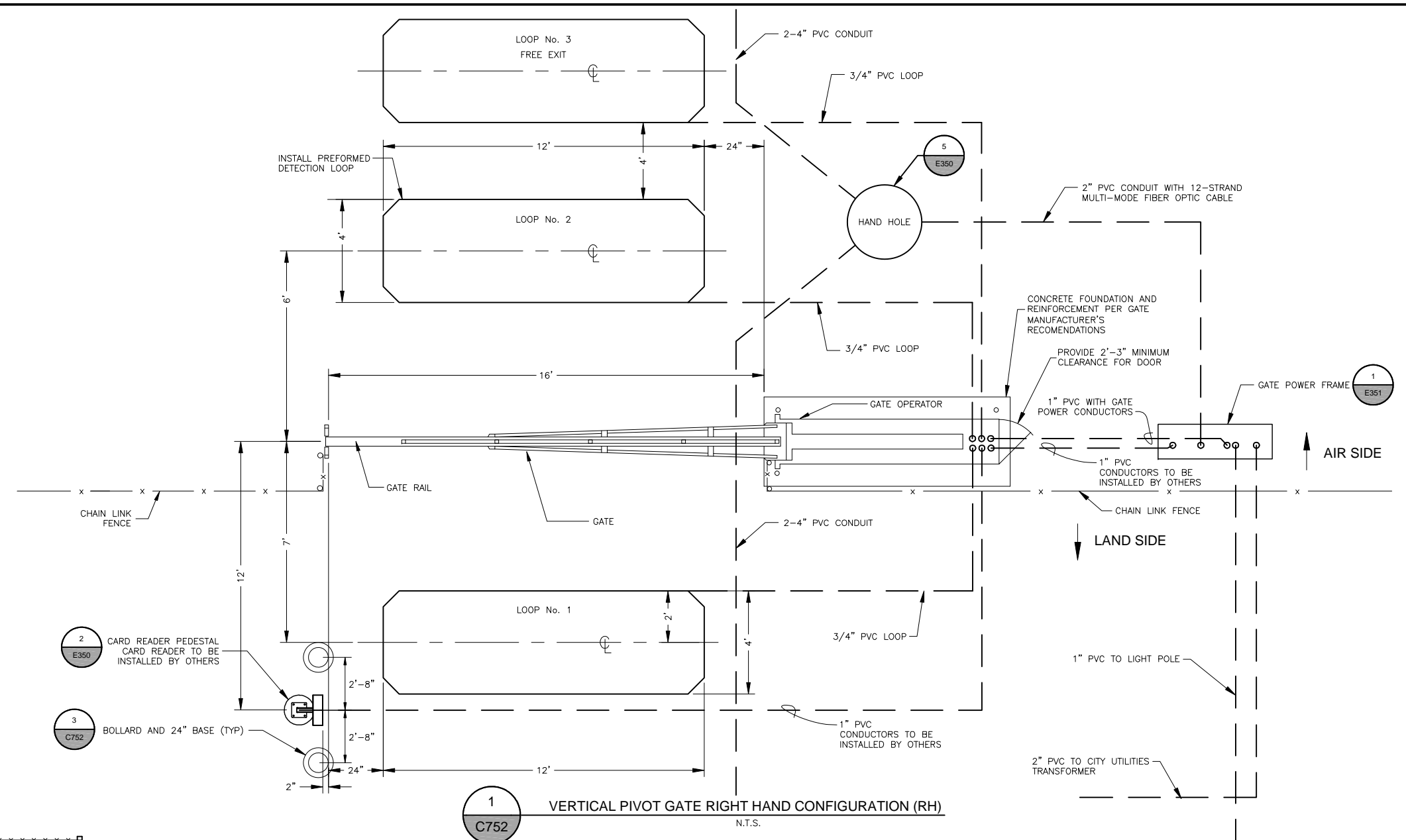
FOR AND ON BEHALF OF JVIATION, INC.

JVIATION, INC. 1705-SGF-GA-C751-FENC-13-01.dwg Jul 19, 2013 3:01 pm

		DES: D.W.C.	ISSUE RECORD		W. KEARNEY TERMINAL PARKING LOT AND GA REDEVELOPMENT	FENCE DETAILS		SHEET NAME
		DR: B.A.V.	NO.	BY		DATE	DESCRIPTION	JVIATION PROJ. NO. AIR 126-092A1
CH: C.L.G.	APP: M.J.L.	1	M.J.L.	07/08/13	ISSUE FOR BID			SHEET NO.
		2	M.J.L.	07/19/13	ADDENDUM #1			99 of 130



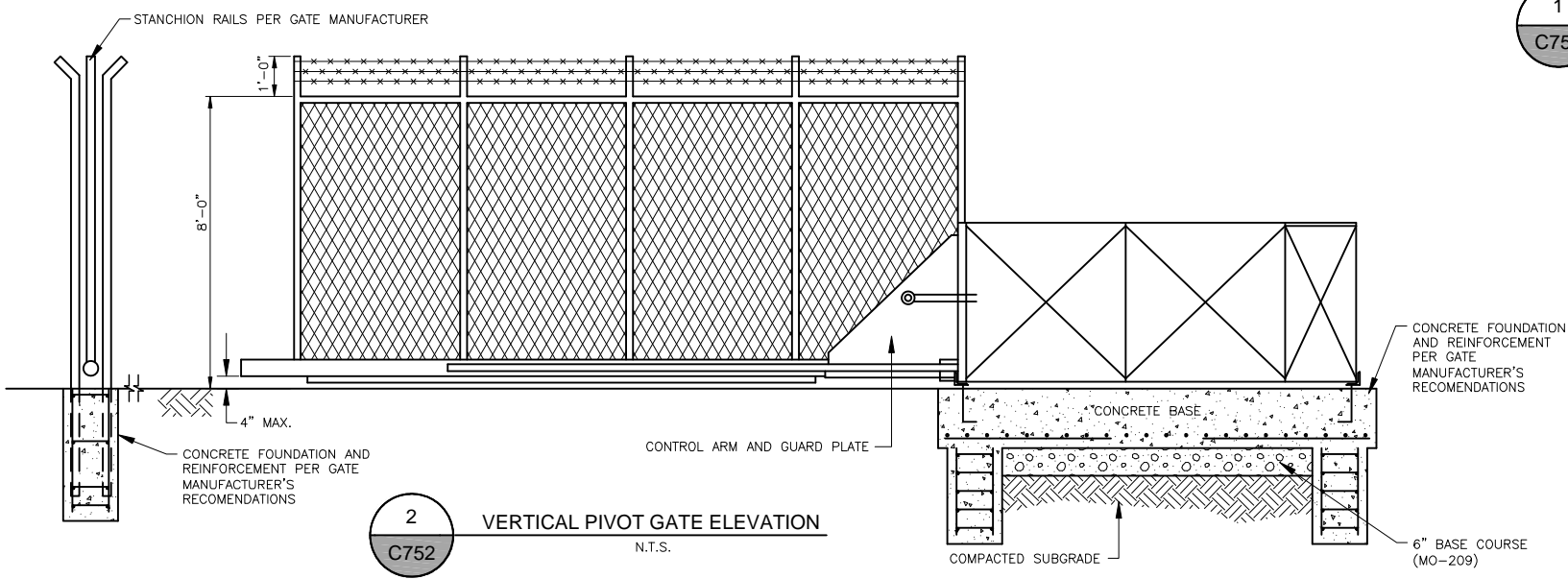
3
C752
6"Ø BOLLARD
N.T.S.



1
C752
VERTICAL PIVOT GATE RIGHT HAND CONFIGURATION (RH)
N.T.S.

GENERAL NOTES:

- CONDUITS SHALL BE EMBEDDED A MINIMUM OF 24" BELOW FINISHED GRADE.
- SEE CIVIL SHEETS FOR NEW PAVEMENT AT GATE.
- SEE SPECIFICATION SECTION F-165 FOR GATE REQUIREMENTS.
- GATE OPERATOR SHALL HAVE LOW VOLTAGE SURGE PROTECTOR AND 24 VOLT AC FOR CONTROL ACCESSORIES.
- MOUNT PUSHBUTTON TRANSFORMER, RECEIVERS, TERMINAL STRIPS, FUSES AND ALL OTHER FUNCTIONAL ITEMS NECESSARY FOR A COMPLETE WORKING GATE SYSTEM INSIDE THE OPERATOR CABINET. PROVIDE PROTECTION AGAINST CURRENT REVERSAL AND MOMENTARY OVERVOLTAGE.
- PEDESTAL SHALL HAVE STEEL WEATHER PROOF HOUSING AND GATE SHALL BE EQUIPPED WITH A COLD WEATHER PACKAGE.
- ALL VEHICLE DETECTION LOOPS SHALL BE CONSTRUCTED USING PREFORMED LOOPS EMBEDDED IN THE NEW PAVEMENT. LOOPS SHALL HAVE 3 TURNS PER LOOP, LOOP LEADS MUST HAVE AT LEAST 6 TWISTS PER FOOT. LOOP AND LOOP LEADS MUST BE LOCATED AT LEAST 18" FROM ANY ELECTRICAL POWER SERVICE OR RUNS. LOOP LEADS MUST BE IN SEPARATE CONDUIT BETWEEN LOOP AND DETECTOR. THEY MUST NOT SHARE WIRING WITH OTHER WIRING OR LEADS FROM OTHER LOOPS. PRIOR TO INSTALLATION OF LOOP WIRING, CONSULT MANUFACTURER FOR WIRE TYPE SPECIFICATIONS. ALL LOOP WIRING TO BE CONTINUOUS WITHOUT SPLICING.
- VERTICAL PIVOT GATE SHALL BE IDEAL MFG. MODEL HYD-25 OR APPROVED EQUAL.
- LOOP DETECTORS SHALL BE RENO A & E SERIES B OR APPROVED EQUAL.
- CONDUIT, WIRE, AND CABLES FOR VEHICLE DETECTOR LOOPS, GATE CONTROLS, CARD READER PEDESTAL, ETC. AT VEHICLE GATE WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THESE ITEMS WILL BE CONSIDERED PART OF THE GATE INSTALLATION PAY ITEM OF WHICH THEY ARE A COMPONENT PART.
- ACCESS CONTROL EQUIPMENT FOR GATE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL INSTALL CONDUITS, CARD READER PEDESTAL, AND OTHER EQUIPMENT SHOWN ON THIS SHEET. REMAINING ACCESS CONTROL EQUIPMENT, INCLUDING CARD READER AND EQUIPMENT INSIDE ACCESS CONTROL ENCLOSURE, TO BE INSTALLED BY OTHERS.



2
C752
VERTICAL PIVOT GATE ELEVATION
N.T.S.

REISSUE ENTIRE SHEET

**ISSUE FOR BID
NOT FOR CONSTRUCTION**

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MARK J. LOVATO PE-2009002094 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

07/19/2013 3:02pm
 JVIATION\Projects\Springfield-Branson National Airport\Development\Drawings



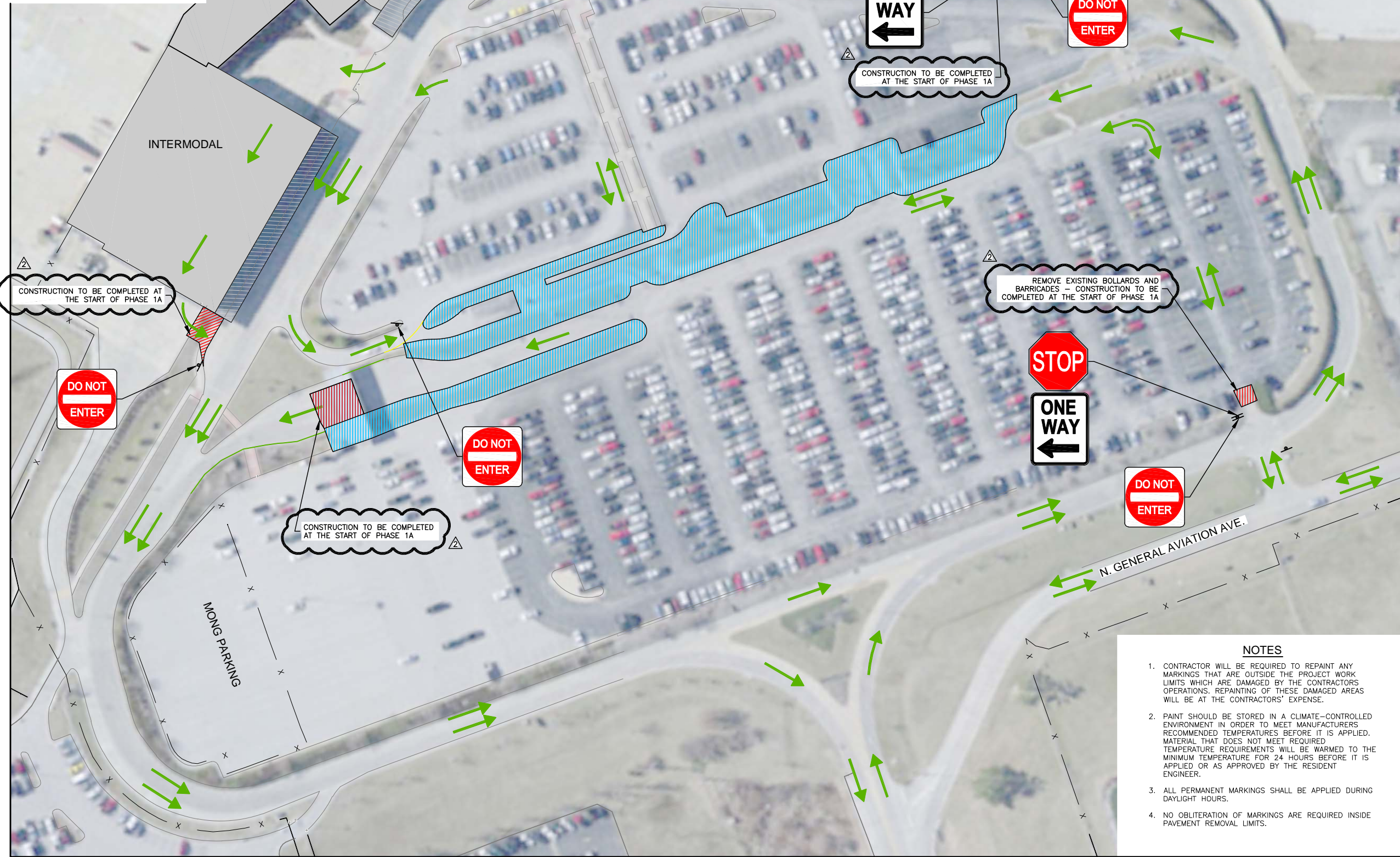
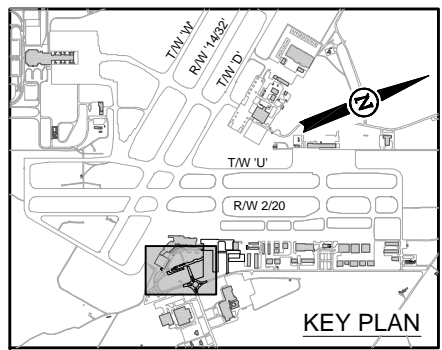
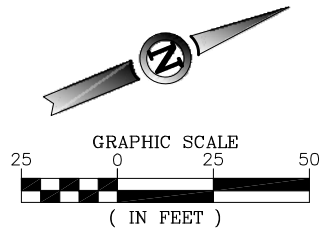
DES: D.W.C.		ISSUE RECORD			
NO.	BY	DATE	DESCRIPTION		
1	M.J.L.	07/08/13	ISSUE FOR BID		
2	M.J.L.	07/19/13	ADDENDUM #1		
DR: B.A.V.					
CH: C.L.G.					
APP: M.J.L.					

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

FENCE DETAILS

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
C752
SHEET NO.
100 of 130



LEGEND	
	PROPOSED YELLOW PAINT
	PROPOSED "STOP" SIGN (R1-1)
	PROPOSED "YIELD" SIGN (R1-2)
	PROPOSED "DO NOT ENTER" SIGN (R5-1)
	PROPOSED "RIGHT TURN ONLY" SIGN
	PROPOSED "ONE WAY" SIGN (R6-1)
	TRAFFIC FLOW ARROW (NOT PAINTED)

- NOTES**
- CONTRACTOR WILL BE REQUIRED TO REPAINT ANY MARKINGS THAT ARE OUTSIDE THE PROJECT WORK LIMITS WHICH ARE DAMAGED BY THE CONTRACTORS OPERATIONS. REPAINTING OF THESE DAMAGED AREAS WILL BE AT THE CONTRACTORS' EXPENSE.
 - PAINT SHOULD BE STORED IN A CLIMATE-CONTROLLED ENVIRONMENT IN ORDER TO MEET MANUFACTURERS RECOMMENDED TEMPERATURES BEFORE IT IS APPLIED. MATERIAL THAT DOES NOT MEET REQUIRED TEMPERATURE REQUIREMENTS WILL BE WARMED TO THE MINIMUM TEMPERATURE FOR 24 HOURS BEFORE IT IS APPLIED OR AS APPROVED BY THE RESIDENT ENGINEER.
 - ALL PERMANENT MARKINGS SHALL BE APPLIED DURING DAYLIGHT HOURS.
 - NO OBLITERATION OF MARKINGS ARE REQUIRED INSIDE PAVEMENT REMOVAL LIMITS.

**ISSUE FOR BID
NOT FOR CONSTRUCTION**

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MARK J. LOVATO PE-2009002094 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.



DES: D.W.C.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
	2	M.J.L.	07/19/13	ADDENDUM #1
CH: C.L.G.				
APP: M.J.L.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

**PHASE 1
PARKING LOT
SIGNAGE AND MARKING PLAN**

JVIATION PROJ. NO. AIR 126-092A1 DATE: 07/08/13

SHEET NAME
C808
SHEET NO.
108 of 130

080-SGF-CA-0808-FMT.dwg
 Jul 19, 2013 3:02pm
 dcorway

MASTER ELECTRICAL LEGEND		(NOT ALL SYMBOLS ARE USED)	
	EXISTING	NEW	
JUNCTION BOX			
HAND HOLE			
ELECTRICAL MANHOLE			
ELECTRICAL CONDUIT (INSTALLED IN TRENCH) ①			
UNDERGROUND UTILITY PRIMARY			
FIBER OPTIC CONDUIT			
FAA COMMUNICATIONS CABLE			
UTILITY JUNCTION CABINET			
UTILITY TRANSFORMER			
COMMUNICATIONS CONDUIT			
POWER FRAME			
FIBER OPTIC CABLE ②			
PARKING LOT / ROADWAY LIGHT			
FLOOD LIGHT			
ELECTRICAL CONDUIT, INSTALLED BY DIRECTIONAL BORING			

ABBREVIATIONS LEGEND		(NOT ALL ABBREVIATIONS ARE USED)	
A	AMP	OHP	OVERHEAD POWER
AFF	ABOVE FINISHED FLOOR	OHT	OVERHEAD TELEPHONE
AFG	ABOVE FINISHED GRADE	P	PHASE
ATS	AUTOMATIC TRANSFER SWITCH	PT	POINT OF TANGENCY
BC	BARE COPPER	PVC	POLYVINYL CHLORIDE CONDUIT
C	CONDUIT	RGL	RUNWAY GUARD LIGHT
CCR	CONSTANT CURRENT REGULATOR	RGS	RIGID GALVANIZED STEEL CONDUIT
CE	CONCRETE ENCASED	RE	REFER TO
CKT.	CIRCUIT	R/W	RUNWAY
COMM.	COMMUNICATION	SAN	SEWER
CONC.	CONCRETE	SCHD.	SCHEDULE
DEB	DIRECT EARTH BURIED	SHT.	SHEET
ELEC.	ELECTRIC/ELECTRICAL	STA.	STATION
EXIST., EX.	EXISTING	TDZ	TOUCH DOWN ZONE
FAA	FEDERAL AVIATION ADMINISTRATION	T/W	TAXIWAY
F.O.	FIBER OPTIC	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTING	UE, UGE	UNDERGROUND ELECTRICAL
GND., G	GROUND	U.G.	UNDERGROUND
HDPE	HIGH-DENSITY POLYETHYLENE	UON	UNLESS OTHERWISE NOTED
kV	KILOVOLTS	UT	UNDERGROUND TELEPHONE
kW	KILOWATTS	V	VOLT
MALSR	MEDIUM INTENSITY APPROACH LIGHT SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS	VA	VOLT AMP
MH.	MANHOLE	W	WATT, WIRE
N.I.C.	NOT IN CONTRACT	W/	WITH
NO.	NUMBER	WP	WEATHERPROOF
		XFMR	TRANSFORMER

GENERAL NOTES

- A. THE PROJECT PAY ITEMS PROVIDED ARE TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEM IS TO BE CONSIDERED REQUIRED WORK TO COMPLETE THE PROJECT, AND IS TO BE INCIDENTAL TO THE COST OF PROJECT PAY ITEMS PROVIDED.
- B. WHENEVER, IN THE CONTRACT DOCUMENTS, THE WORDS "PROVIDE", "INSTALL", "FURNISH AND INSTALL", OR OTHER SIMILAR WORDS ARE USED, IT SHALL BE UNDERSTOOD THAT THE INTENT OF THE CONTRACT DOCUMENT IS TO PROVIDE FOR THE CONSTRUCTION AND COMPLETION IN EVERY DETAIL THE WORK DESCRIBED. IT IS FURTHER INTENDED THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, TESTING, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS (PLANS), SPECIFICATIONS, AND TERMS OF THE CONTRACT.
- C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, ETC., PRIOR TO COMMENCEMENT OF WORK. THE COST OF PERMITS, LICENSES, ETC. SHALL BE INCIDENTAL TO AND INCLUDED IN THE BID PRICE FOR THE RESPECTIVE PAY ITEMS.
- D. ALL DAMAGE TO UTILITIES OR EXISTING STRUCTURES FROM CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPORTED TO THE RESIDENT ENGINEER. THE RESIDENT ENGINEER SHALL DETERMINE WHETHER REPAIR OR REPLACEMENT IS NECESSARY. ALL REPAIR METHODS SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INITIATING THE WORK.
- E. IN NEW OR EXISTING PAVEMENT ALL CONDUITS, DUCT BANKS, HANDHOLES, ETC. SHALL BE INSTALLED PRIOR TO PLACEMENT OF THE FINAL LIFT OF PAVEMENT.
- F. THE ELECTRICAL CONTRACTOR SHALL ATTEND THE CONSTRUCTION MEETINGS FOR THE DURATION OF THE PROJECT.
- G. AIRFIELD SIGNS PROVIDING DIRECTIONS TO CLOSED AREAS SHALL BE COVERED. ALL AREAS CLOSED TO AIRCRAFT SHALL NOT BE LIGHTED. ADEQUATE LIGHTING, IN THE OPINION OF THE RESIDENT ENGINEER, SHALL BE PROVIDED TO DELINEATE THE ACTIVE AND CLOSED AREAS OF THE AOA. THE ABOVE ITEMS ARE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.
- H. CONTRACTOR SHALL BE REQUIRED TO PROVE TO THE SATISFACTION OF THE PROJECT ENGINEER THAT THE LIGHTING SYSTEM IS OPERATIONAL BEFORE LEAVING THE WORKSITE AFTER EVERY WORK SHIFT.
- I. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
- J. EXISTING CONDUIT, DUCT BANK, CIRCUITING, AND UTILITY INFORMATION IS BASED ON "AS-BUILT" AND "RECORD" DRAWINGS AND SITE VISITS BY THE ENGINEER. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL NOT BE SCALED FOR EXACT LOCATION. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO CONTACT THE APPROPRIATE UTILITY/AGENCY, PRIOR TO STARTING WORK, AND STAKE/MARK THE LOCATION OF ALL EXISTING UTILITIES. ANY INTERRUPTION OF AN EXISTING SYSTEM OR UTILITY SERVICE SHALL BE COORDINATED AND APPROVED BY THE AIRPORT AND THE AUTHORITY, AGENCY, OR UTILITY HAVING JURISDICTION, PRIOR TO STARTING WORK.
- K. ALL REMOVED FIXTURES, POLES, LAMPS, ETC. SHALL BE TURNED OVER TO THE AIRPORT'S MAINTENANCE DEPARTMENT. ALL REMOVED CABLES, DUCT, CONCRETE PADS, MANHOLES, ETC. SHALL BE PROPERLY AND LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR. ALL ITEMS TO BE RELOCATED SHALL BE REMOVED FIRST AND PROPERLY STORED FOR FUTURE INSTALLATION.
- L. PROVIDE WORK, EQUIPMENT, AND MATERIALS THAT COMPLY WITH NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES.
- M. NOTIFY ENGINEER OF ANY SIGNIFICANT DIFFERENCES BETWEEN DRAWINGS AND FIELD CONDITIONS.
- N. CONTRACTOR SHALL NOTIFY ENGINEER 24 HOURS IN ADVANCE AND BE IN RADIO CONTACT WITH THE ATC WHEN OPERATING INSIDE THE AOA.
- O. DAMAGE TO EXISTING EQUIPMENT NOT ASSOCIATED WITH DEMOLITION FOR THIS PROJECT TO BE REPAIRED AND OPERATIONAL AT CONTRACTOR'S EXPENSE.
- P. LOCATION OF EXISTING UTILITIES AND STRUCTURES IS BASED ON THE BEST AVAILABLE INFORMATION AND IS NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UTILITIES ARE SHOWN.
- Q. CONTRACTOR TO FIELD VERIFY ALL ELEVATION ADJUSTMENTS PRIOR TO ORDERING EXTENSION RINGS OR EXCAVATING ELECTRICAL STRUCTURES.
- R. WHERE NEW DUCT BANKS OR OTHER UTILITIES ARE NEAR EXISTING UTILITIES THE CONTRACTOR SHALL HAND EXCAVATE AROUND THE EXISTING UTILITIES IN ORDER TO PREVENT DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING ANY UTILITY DAMAGED DURING CONSTRUCTION.
- S. FIBER PASSING THROUGH A HANDHOLE SHALL BE LOOPED TWICE TO PROVIDE SLACK FOR FUTURE ADJUSTMENTS TO CABLE.
- T. FIBER OPTIC CABLES SHALL BE INSTALLED FROM POINT TO POINT WITHOUT ANY INTERMEDIATE SPLICES.
- U. THE CONTRACTOR SHALL TERMINATE NEW FIBER OPTIC CABLES ON NEW PATCH PANELS INSTALLED IN THE WEST KEARNEY TERMINAL, NEW GATE ACCESS CONTROL ENCLOSURE, AND GA TERMINAL. ALL STRANDS OF FIBER SHALL BE TERMINATED.
- V. CONDUITS, ELECTRIC LINES, AND DUCT BANKS MARKED FOR REMOVAL ON UTILITY DEMOLITION SHEETS MAY BE ABANDONED IN PLACE IF THEY ARE NOT DISTURBED DURING CONSTRUCTION ACTIVITIES. ANY CONDUIT, ELECTRIC LINES, OR DUCT BANK ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED. NO PAYMENT SHALL BE MADE FOR REMOVAL OF CONDUITS, DUCT BANKS, AND ELECTRIC LINES.
- W. THE CONTRACTOR SHALL REMOVE ALL ABANDONED/UNUSED CONDUCTORS AND CABLES FROM EXISTING CONDUITS IN WHICH NEW CONDUCTORS OR CABLES ARE INSTALLED. NO ABANDONED CONDUCTORS OR CABLES SHALL BE LEFT IN PLACE AT THE COMPLETION OF THE PROJECT. NO PAYMENT WILL BE MADE FOR REMOVAL OF EXISTING CONDUCTORS OR CABLES. ALL REMOVED CONDUCTORS AND CABLES SHALL BE THE PROPERTY OF THE CONTRACTOR.

LEGEND NOTES:

- ① SIZE AND NUMBER OF CONDUITS IN A CONDUIT BANK ARE AS INDICATED ON PLAN SHEETS.
- ② FIBER OPTIC CABLES TO BE INSTALLED IN NEW OR EXISTING CONDUITS. GA TERMINAL CABLE TO BE 36 STRAND WITH 18 STRANDS OF SINGLE MODE FIBER AND 18 STRANDS OF 62.5/125 MM MULTI-MODE FIBER. GATE CABLE TO BE 12 STRAND 62.5/125 MM MULTI-MODE TYPE. ALL FIBER OPTIC CABLES TO BE DUAL JACKETED, LOOSE TUBE, GEL FILLED TYPE.

**ISSUE FOR BID
NOT FOR CONSTRUCTION**

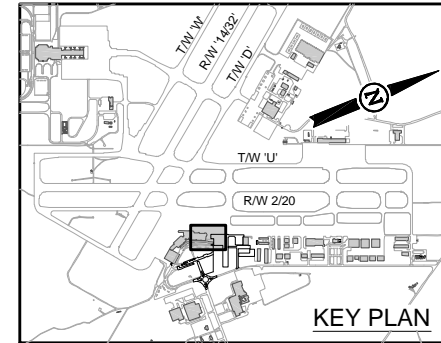
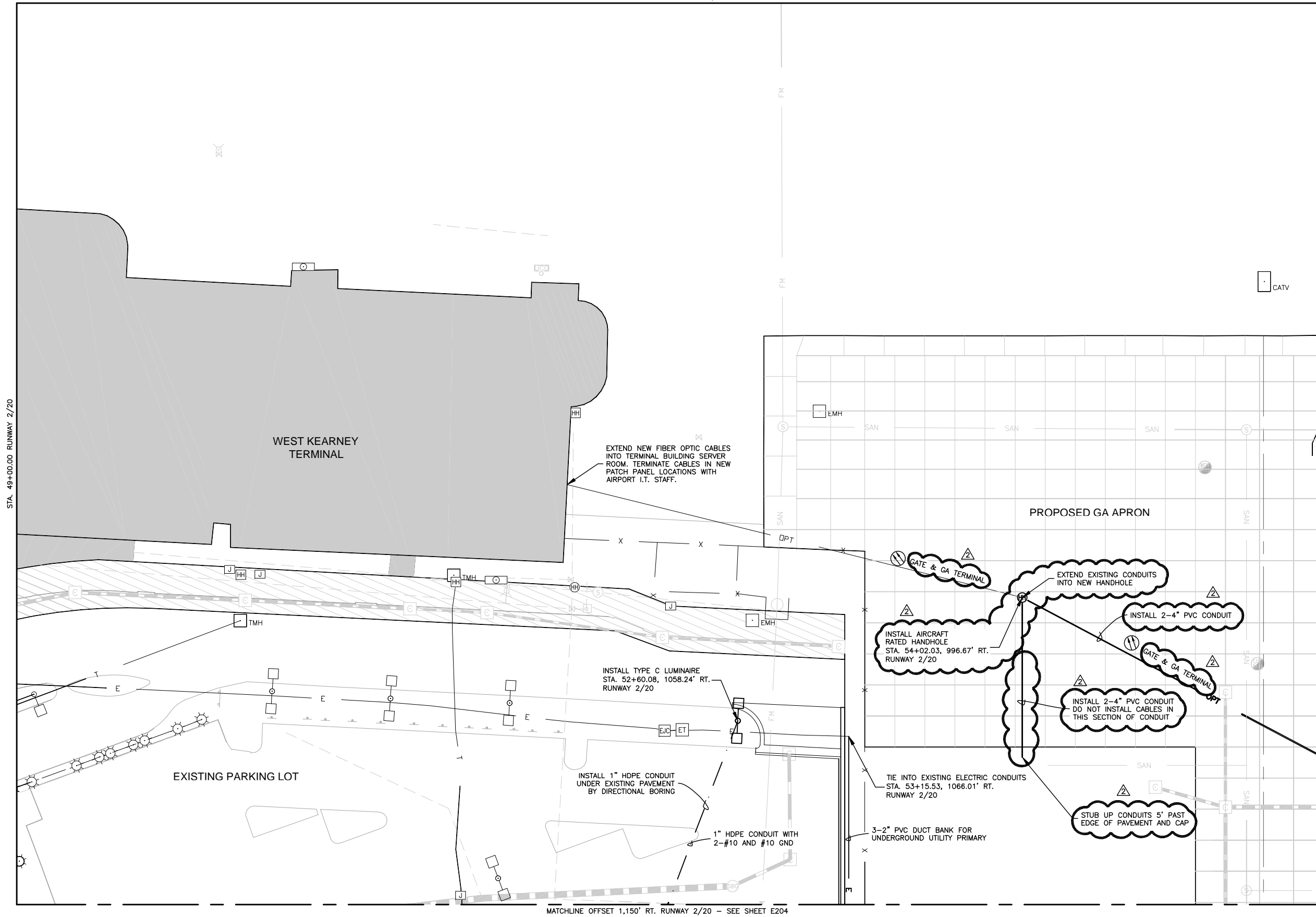
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JOEL A. WIECHMANN PE-2012033774 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.



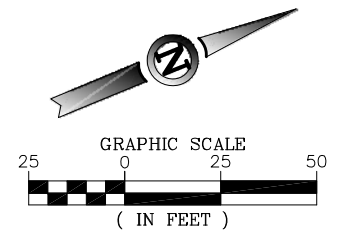
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 Jul 19, 2013 3:02pm
 dconway

		DES: J.A.W.	ISSUE RECORD				W. KEARNEY TERMINAL PARKING LOT AND GA REDEVELOPMENT	ELECTRICAL LEGEND	SHEET NAME E001
		DR: B.A.V.	NO.	BY	DATE	DESCRIPTION			
		CH: C.L.G.	1	M.J.L.	07/08/13	ISSUE FOR BID	JVIATION PROJ. NO. AIR 126-092A1	DATE: 07/08/13	
		APP: J.A.W.	2	M.J.L.	07/19/13	ADDENDUM #1			



ELECTRICAL LEGEND

- EXISTING ELECTRICAL DUCT (DEB)
- - - EXISTING ELECTRICAL DUCT (CE)
- UGE — EXISTING ELECTRICAL LINE
- T — EXISTING TELEPHONE LINE
- EMH EXISTING ELECTRICAL MANHOLE
- ET EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL VAULT
- → □ EXISTING PARKING LIGHTS (DUAL)
- → EXISTING PARKING LIGHTS (SINGLE)
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING LIGHT POLE (SHORT)
- TMH EXISTING TELEPHONE MANHOLE
- ⊙ EXISTING TELEPHONE JUNCTION BOX
- ⊙ EXISTING TELEPHONE PEDESTAL
- CATV EXISTING CATV RISER



**ISSUE FOR BID
NOT FOR CONSTRUCTION**

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JOEL A. WIECHMANN PE-2012033774 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET E204

MATCHLINE STA. 55+50.00 RUNWAY 2/20 - SEE SHEET E202

STA. 49+00.00 RUNWAY 2/20

JVIATION, INC. 1500 S. STATE ST. SUITE 200, SPRINGFIELD, MO 65804
 TEL: 417-863-1100 FAX: 417-863-1101
 WWW.JVIATION.COM
 PROJECT: W. KEARNEY TERMINAL, PARKING LOT AND GA REDEVELOPMENT
 SHEET: E201 OF 130
 DATE: JUL 19, 2013 3:02pm
 DRAWN BY: JVIATION



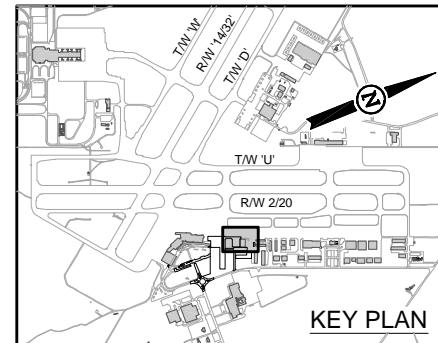
ISSUE RECORD				
NO.	BY	DATE	DESCRIPTION	
1	M.J.L.	07/08/13	ISSUE FOR BID	
2	M.J.L.	07/19/13	ADDENDUM #1	

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

ELECTRICAL LAYOUT PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20

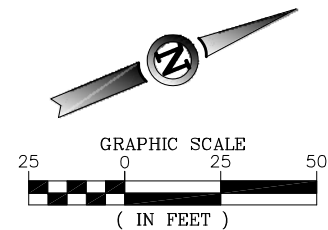
SHEET NAME
E201
SHEET NO.
122 of 130

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13



ELECTRICAL LEGEND

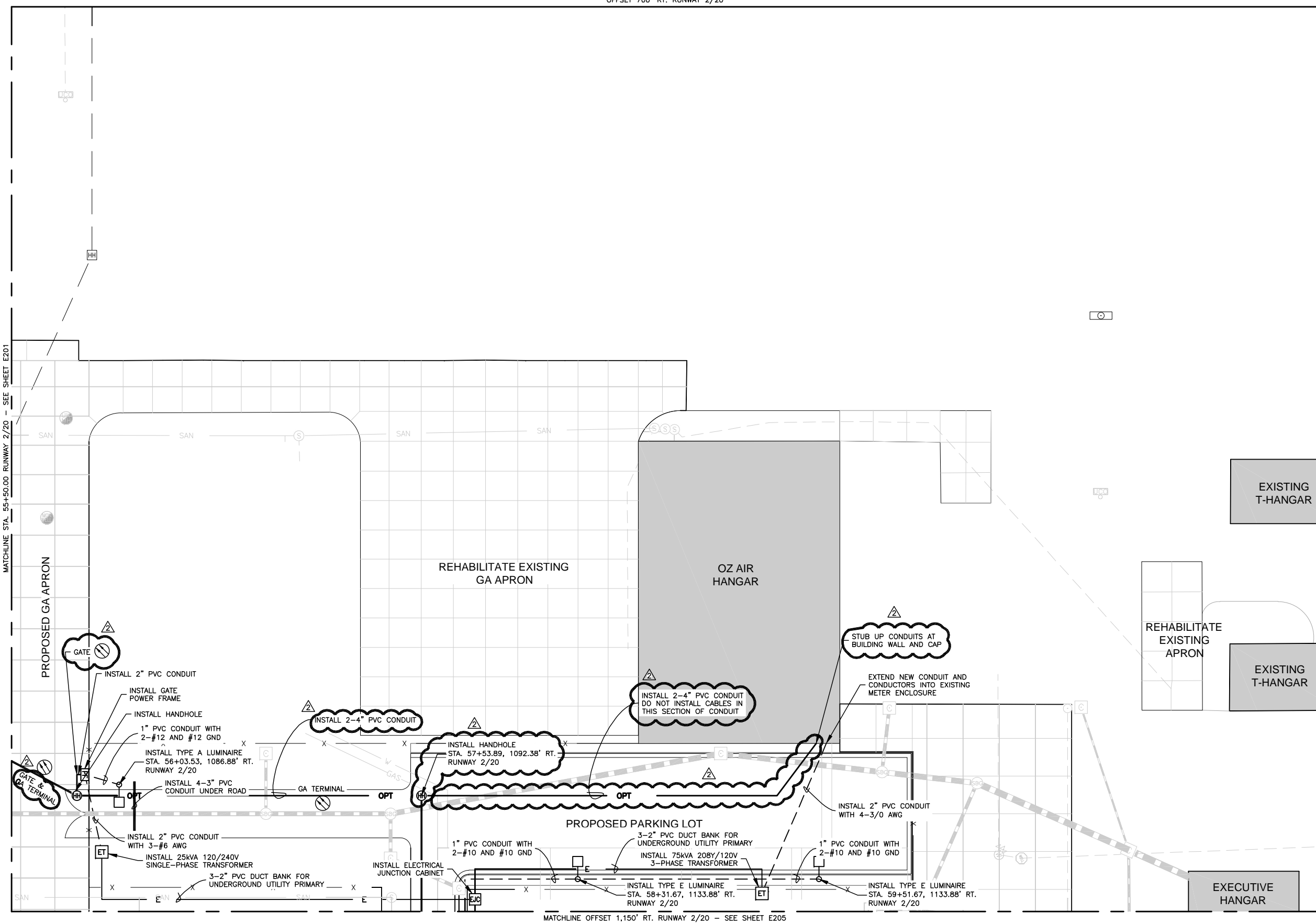
- EXISTING ELECTRICAL DUCT (DEB)
- - - EXISTING ELECTRICAL DUCT (CE)
- UGE — EXISTING ELECTRICAL LINE
- T - EXISTING TELEPHONE LINE
- EMH EXISTING ELECTRICAL MANHOLE
- ET EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL VAULT
- EXISTING PARKING LIGHTS (DUAL)
- EXISTING PARKING LIGHTS (SINGLE)
- EXISTING POWER POLE
- EXISTING LIGHT POLE (SHORT)
- TMH EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE JUNCTION BOX
- EXISTING TELEPHONE PEDESTAL
- CATV EXISTING CATV RISER



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MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET E205

MATCHLINE STA. 55+50.00 RUNWAY 2/20 - SEE SHEET E201

STA. 62+00.00 RUNWAY 2/20

JVIATION



ISSUE RECORD					
DES:	J.A.W.	NO.	BY	DATE	DESCRIPTION
DR:	B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH:	C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP:	J.A.W.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

ELECTRICAL LAYOUT PLAN
STA. 55+50.00 TO 62+00.00 RUNWAY 2/20
OFFSET 700' RT. TO 1,150' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
E202
SHEET NO.
123 of 130

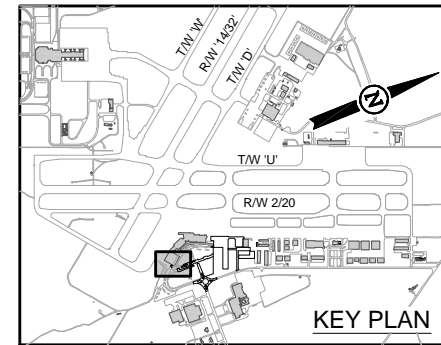
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 Jul 19, 2013 3:03pm
 dconway

OFFSET 1,150' RT. RUNWAY 2/20

STA. 42+50.00 RUNWAY 2/20

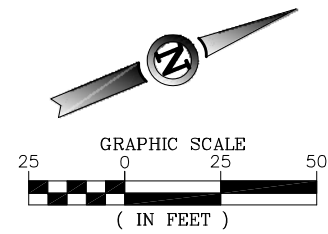
MATCHLINE STA. 49+00.00 RUNWAY 2/20 - SEE SHEET E204

OFFSET 1,600' RT. RUNWAY 2/20



ELECTRICAL LEGEND

- EXISTING ELECTRICAL DUCT (DEB)
- - - EXISTING ELECTRICAL DUCT (CE)
- UGE — EXISTING ELECTRICAL LINE
- T — EXISTING TELEPHONE LINE
- EMH EXISTING ELECTRICAL MANHOLE
- ET EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL VAULT
- EXISTING PARKING LIGHTS (DUAL)
- EXISTING PARKING LIGHTS (SINGLE)
- EXISTING POWER POLE
- EXISTING LIGHT POLE (SHORT)
- TMH EXISTING TELEPHONE MANHOLE
- ⊕ EXISTING TELEPHONE JUNCTION BOX
- ⊕ EXISTING TELEPHONE PEDESTAL
- CATV EXISTING CATV RISER



ISSUE FOR BID
NOT FOR CONSTRUCTION

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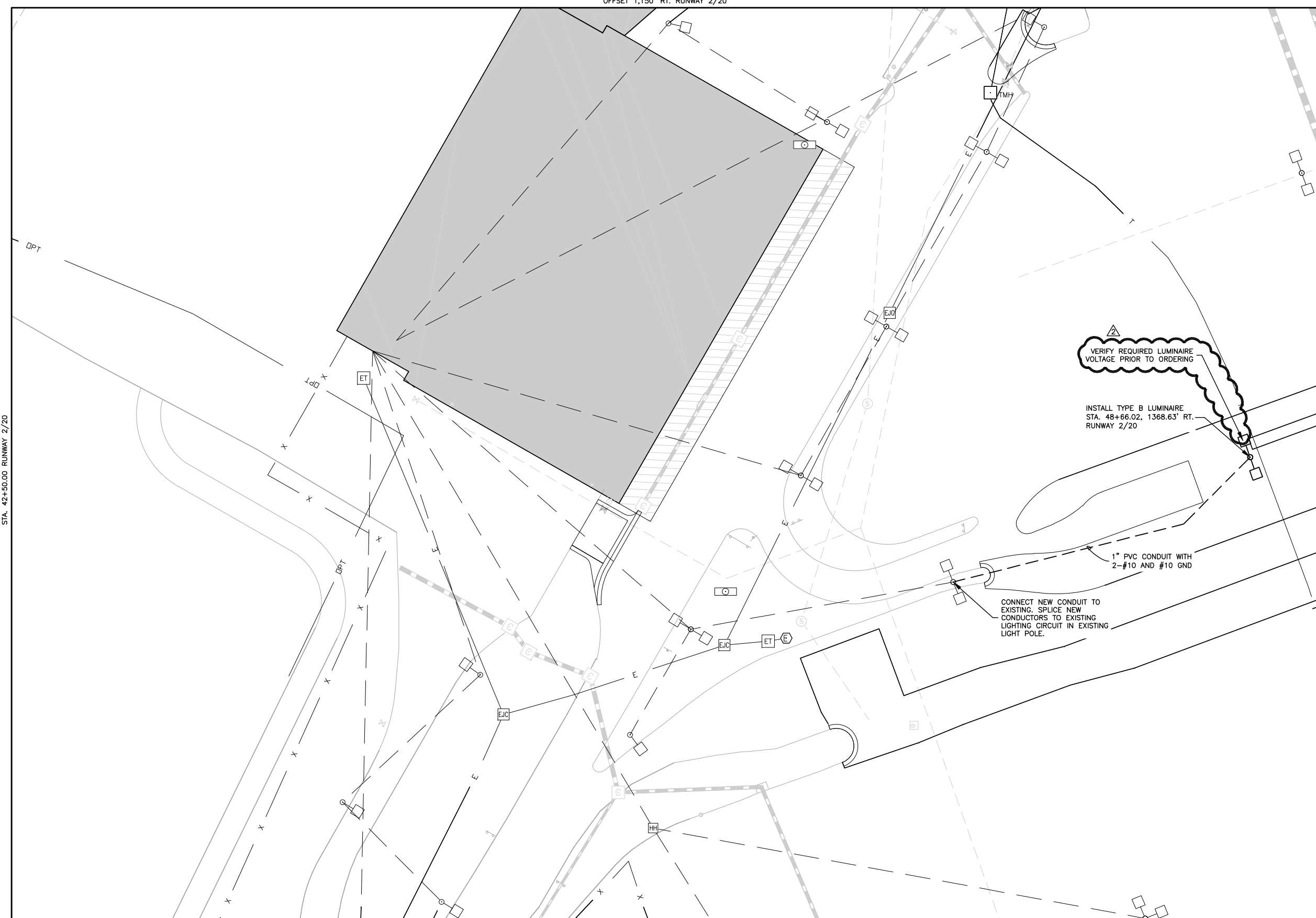
JOEL A. WIECHMANN PE-2012033774 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

VERIFY REQUIRED LUMINAIRE VOLTAGE PRIOR TO ORDERING

INSTALL TYPE B LUMINAIRE STA. 48+66.02, 1368.63' RT. RUNWAY 2/20

1" PVC CONDUIT WITH 2-#10 AND #10 GND

CONNECT NEW CONDUIT TO EXISTING. SPlice NEW CONDUCTORS TO EXISTING LIGHTING CIRCUIT IN EXISTING LIGHT POLE.



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 Jul 19, 2013 3:03pm
 dcorway



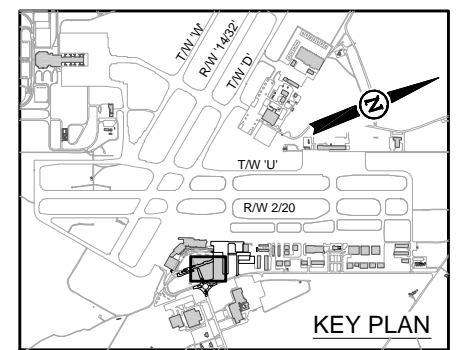
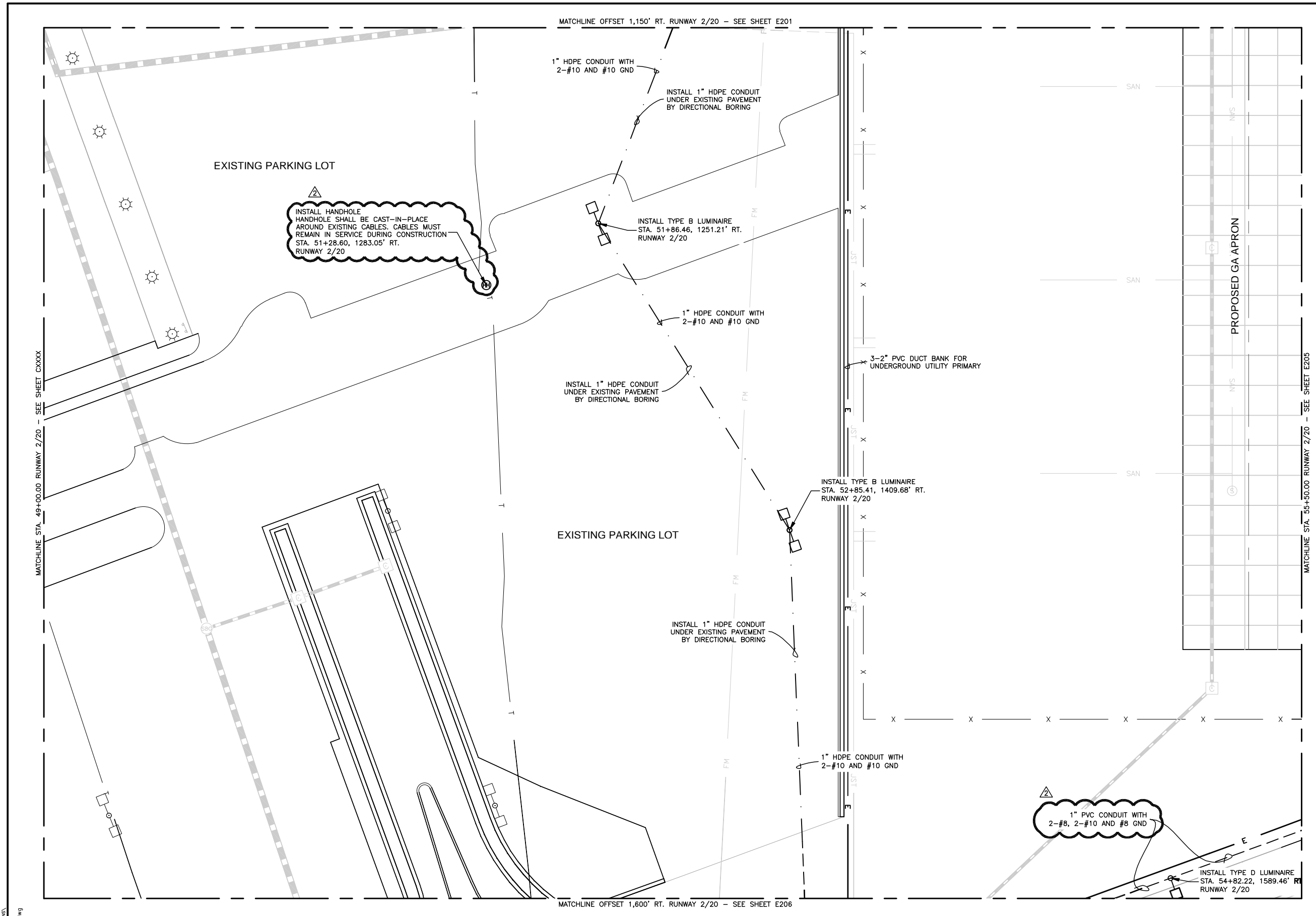
DES: J.A.W.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: J.A.W.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

ELECTRICAL LAYOUT PLAN
STA. 42+50.00 TO 49+00.00 RUNWAY 2/20
OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20

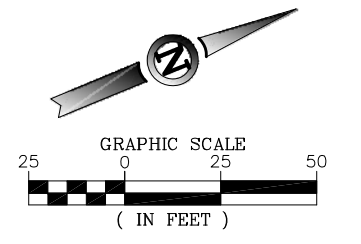
SHEET NAME
E203
SHEET NO.
124 of 130

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13



ELECTRICAL LEGEND

- EXISTING ELECTRICAL DUCT (DEB)
- - - EXISTING ELECTRICAL DUCT (CE)
- UGE — EXISTING ELECTRICAL LINE
- T — EXISTING TELEPHONE LINE
- EMH EXISTING ELECTRICAL MANHOLE
- ET EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL VAULT
- EXISTING PARKING LIGHTS (DUAL)
- EXISTING PARKING LIGHTS (SINGLE)
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING LIGHT POLE (SHORT)
- TMH EXISTING TELEPHONE MANHOLE
- ⊕ EXISTING TELEPHONE JUNCTION BOX
- ⊖ EXISTING TELEPHONE PEDESTAL
- CATV EXISTING CATV RISER



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NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.



ISSUE RECORD				
DES:	NO.	BY	DATE	DESCRIPTION
J.A.W.	1	M.J.L.	07/08/13	ISSUE FOR BID
B.A.V.	2	M.J.L.	07/19/13	ADDENDUM #1
C.L.G.				
J.A.W.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

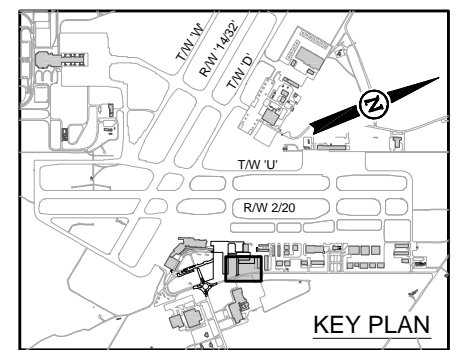
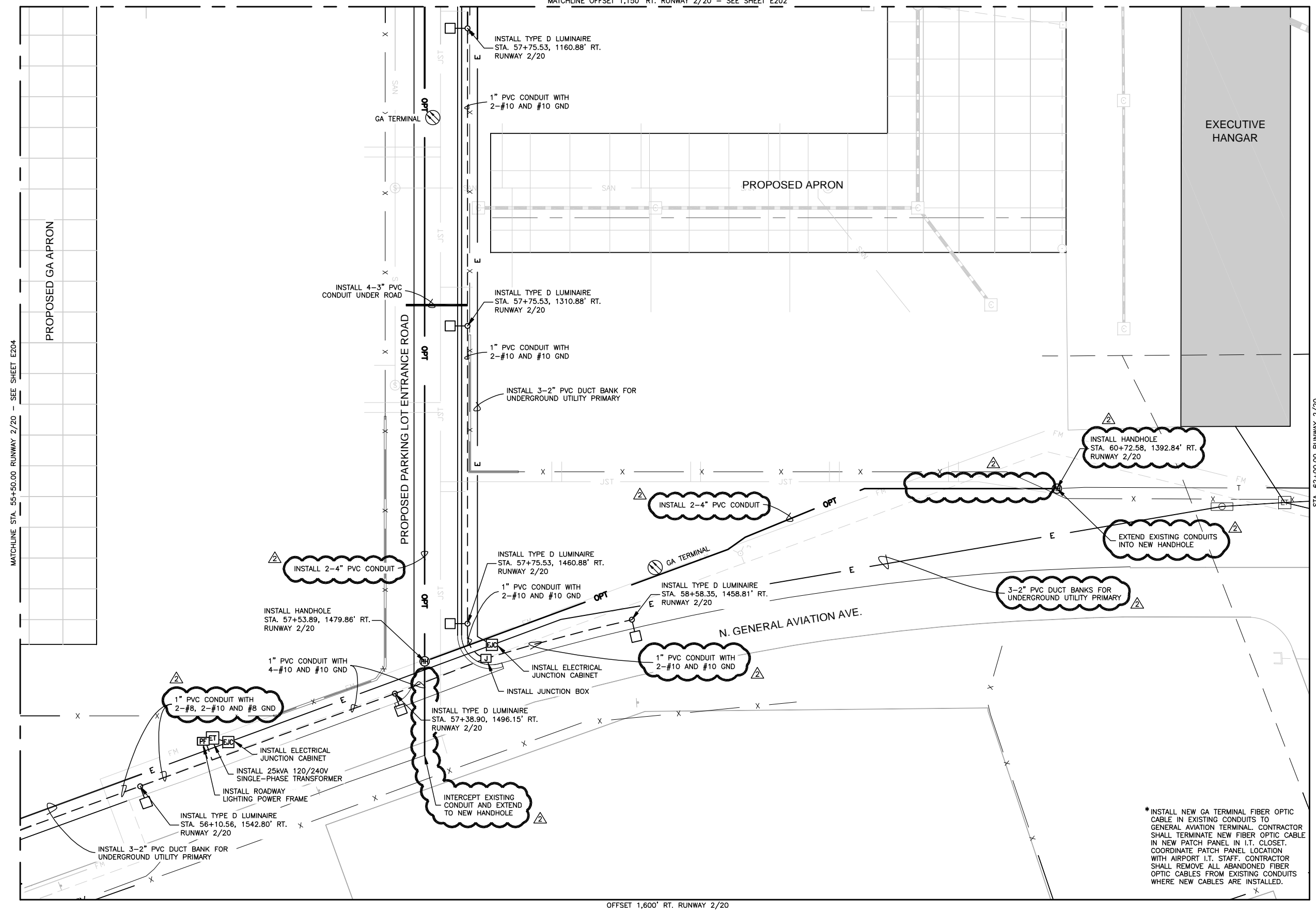
ELECTRICAL LAYOUT PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
E204
SHEET NO.
125 of 130

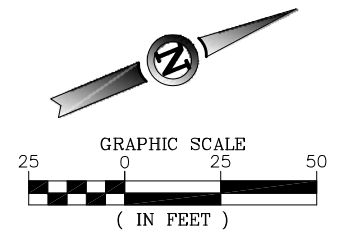
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 Jul 19, 2013 3:03pm
 dconway

MATCHLINE OFFSET 1,150' RT. RUNWAY 2/20 - SEE SHEET E202



ELECTRICAL LEGEND

- EXISTING ELECTRICAL DUCT (DEB)
- - - EXISTING ELECTRICAL DUCT (CE)
- UGE — EXISTING ELECTRICAL LINE
- T — EXISTING TELEPHONE LINE
- EMH EXISTING ELECTRICAL MANHOLE
- ET EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL VAULT
- → □ EXISTING PARKING LIGHTS (DUAL)
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*INSTALL NEW GA TERMINAL FIBER OPTIC CABLE IN EXISTING CONDUITS TO GENERAL AVIATION TERMINAL. CONTRACTOR SHALL TERMINATE NEW FIBER OPTIC CABLE IN NEW PATCH PANEL IN I.T. CLOSET. COORDINATE PATCH PANEL LOCATION WITH AIRPORT I.T. STAFF. CONTRACTOR SHALL REMOVE ALL ABANDONED FIBER OPTIC CABLES FROM EXISTING CONDUITS WHERE NEW CABLES ARE INSTALLED.

OFFSET 1,600' RT. RUNWAY 2/20

200-SEP-CA-E205-EL-1
 Jul 19, 2013 4:02pm
 dconway



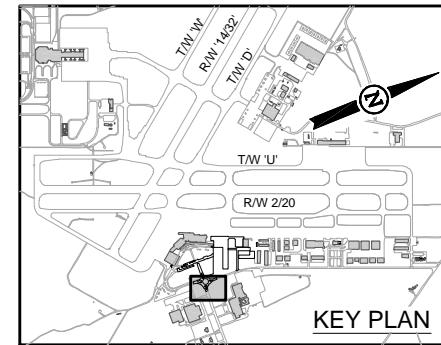
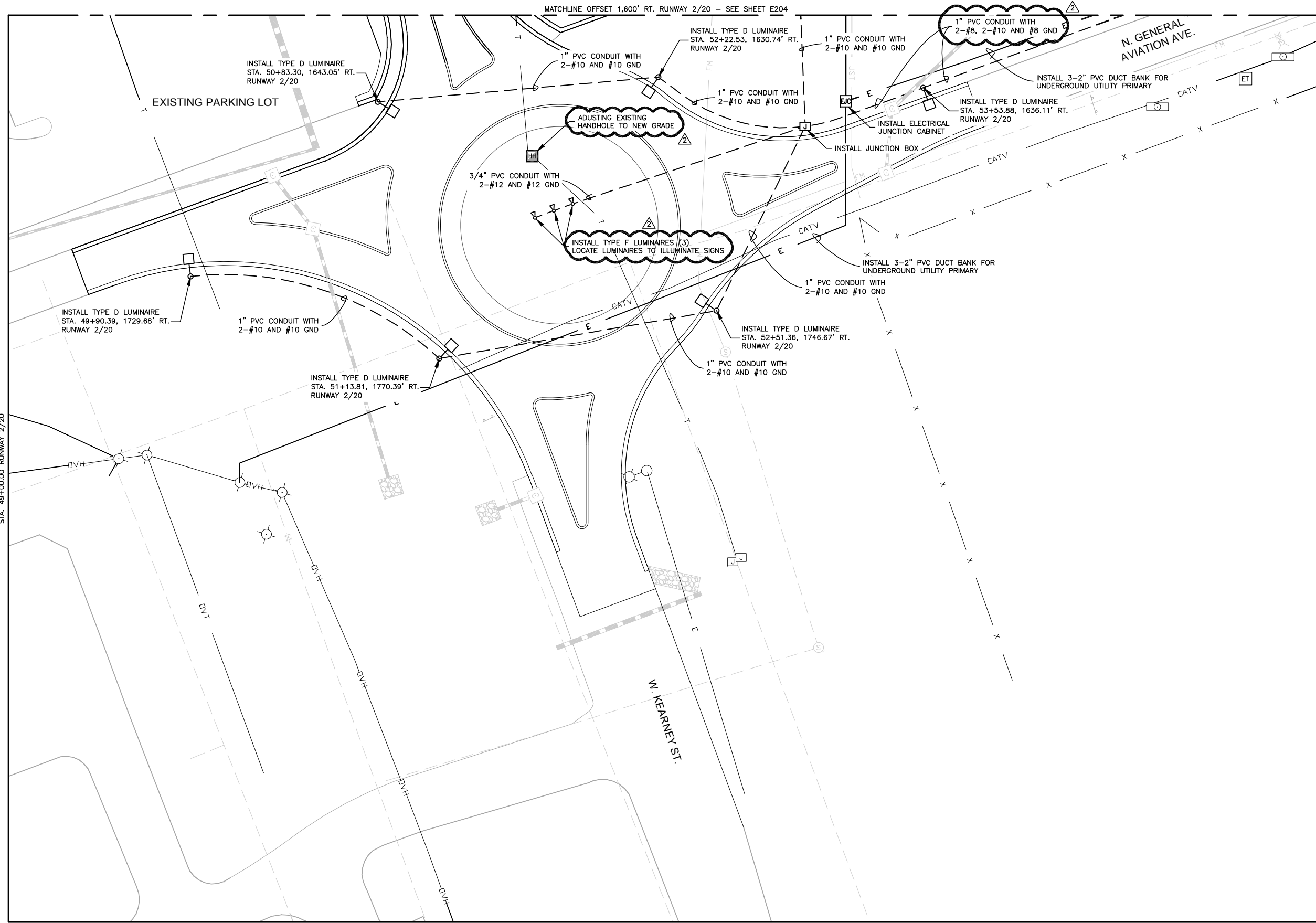
DES: J.A.W.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: J.A.W.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

ELECTRICAL LAYOUT PLAN
STA. 55+50.00 TO 62+50.00 RUNWAY 2/20
OFFSET 1,150' RT. TO 1,600' RT. RUNWAY 2/20

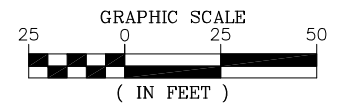
SHEET NAME
E205
SHEET NO.
126 of 130

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13



ELECTRICAL LEGEND

- EXISTING ELECTRICAL DUCT (DEB)
- EXISTING ELECTRICAL DUCT (CE)
- UGE EXISTING ELECTRICAL LINE
- T EXISTING TELEPHONE LINE
- EMH EXISTING ELECTRICAL MANHOLE
- ET EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL VAULT
- EXISTING PARKING LIGHTS (DUAL)
- EXISTING PARKING LIGHTS (SINGLE)
- EXISTING POWER POLE
- EXISTING LIGHT POLE (SHORT)
- TMH EXISTING TELEPHONE MANHOLE
- ⊕ EXISTING TELEPHONE JUNCTION BOX
- ⊕ EXISTING TELEPHONE PEDESTAL
- CATV EXISTING CATV RISER



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NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

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 dcorway



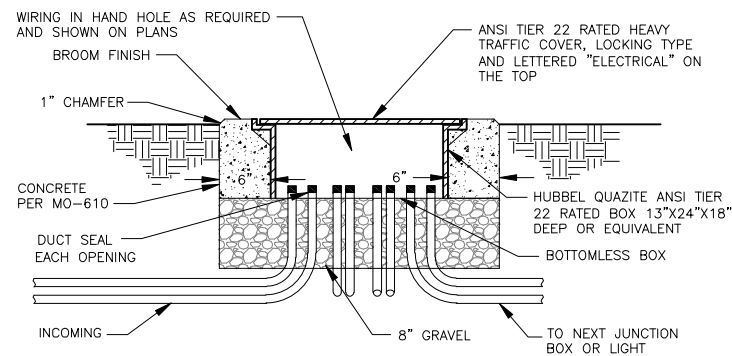
ISSUE RECORD					
DES:	J.A.W.	NO.	BY	DATE	DESCRIPTION
DR:	B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH:	C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP:	J.A.W.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

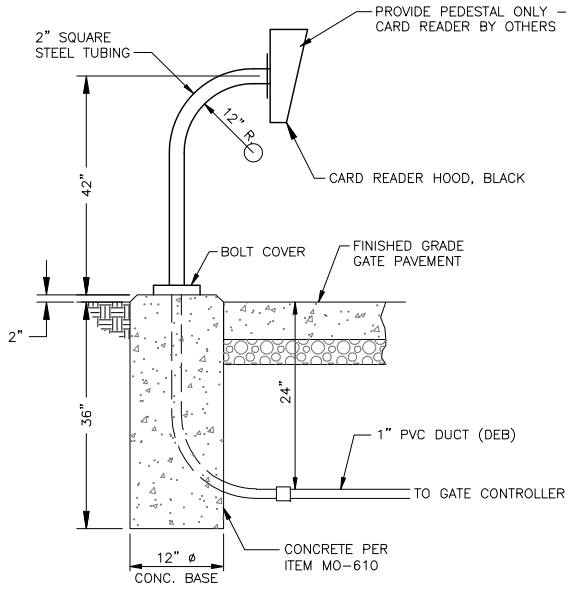
ELECTRICAL LAYOUT PLAN
STA. 49+00.00 TO 55+50.00 RUNWAY 2/20
OFFSET 1,600' RT. TO 2,050' RT. RUNWAY 2/20

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

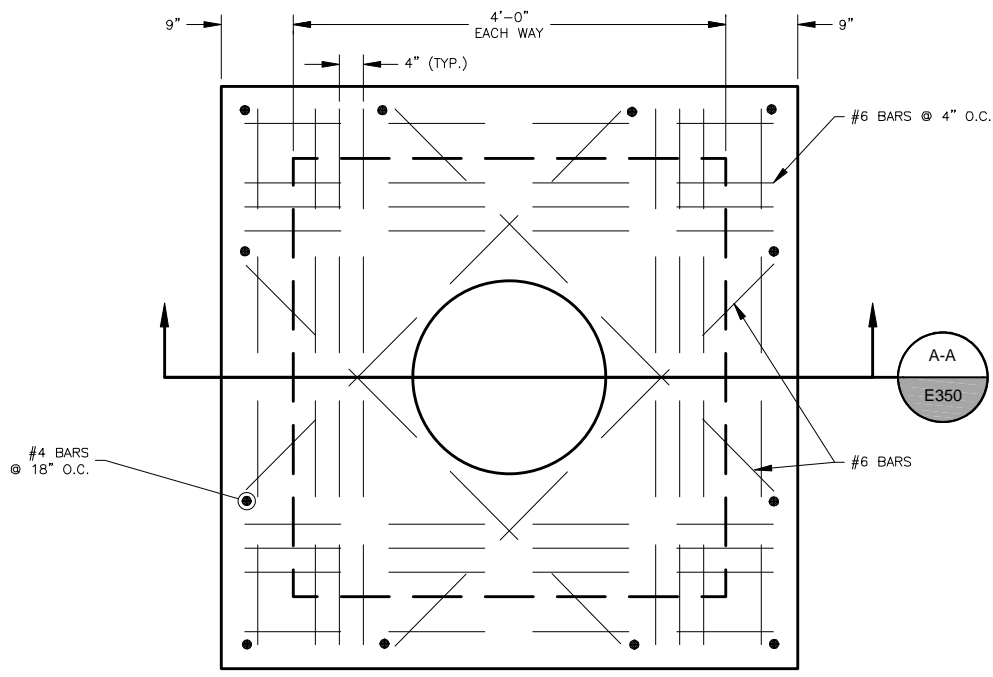
SHEET NAME
E206
SHEET NO.
127 of 130



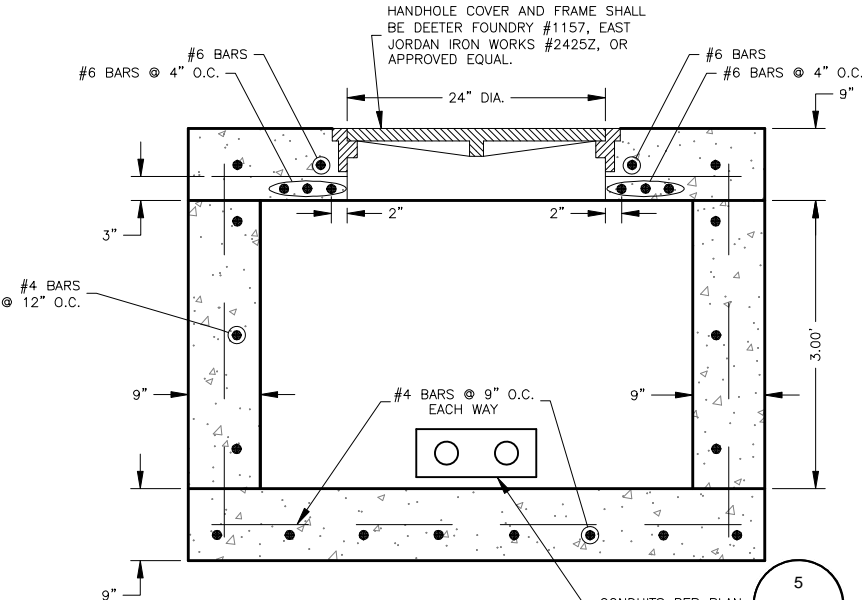
1
E350
JUNCTION BOX DETAIL
N.T.S.



2
C752
CARD READER PEDESTAL DETAIL
N.T.S.



PLAN

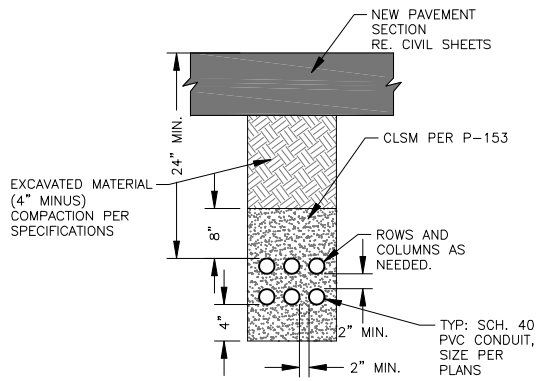


SECTION A-A

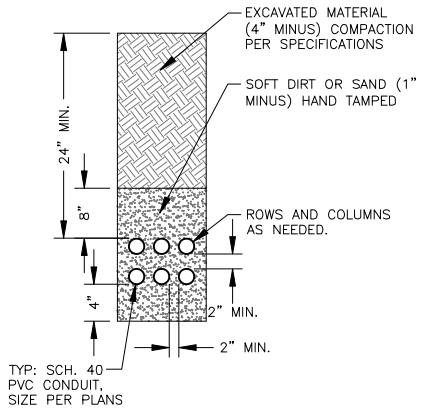
- NOTES:**
1. DIAGONAL BARS IN TOP SLAB PLACED NEAR BOTTOM OF SLAB.
 2. REINFORCING BARS SHALL BE CUT OR BENT AT PIPE OPENINGS.
 3. 4" BEDDING MATERIAL TO BE USED UNDER BOX.
 4. ALL REINFORCING STEEL SHALL BE ASTM GRADE 60 AND THE CONCRETE SHALL BE PER MO-610 WITH A 28 DAY STRENGTH OF 4000 P.S.I.

5
E350
HANDHOLE DETAIL
N.T.S.

REISSUE ENTIRE SHEET



3
E350
ELECTRICAL CONDUIT TRENCH UNDER NEW PAVEMENT
N.T.S.



4
E350
ELECTRICAL CONDUIT TRENCH UNPAVED AREAS (DEB)
N.T.S.

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 Jul 19, 2013 3:52pm
 dconway



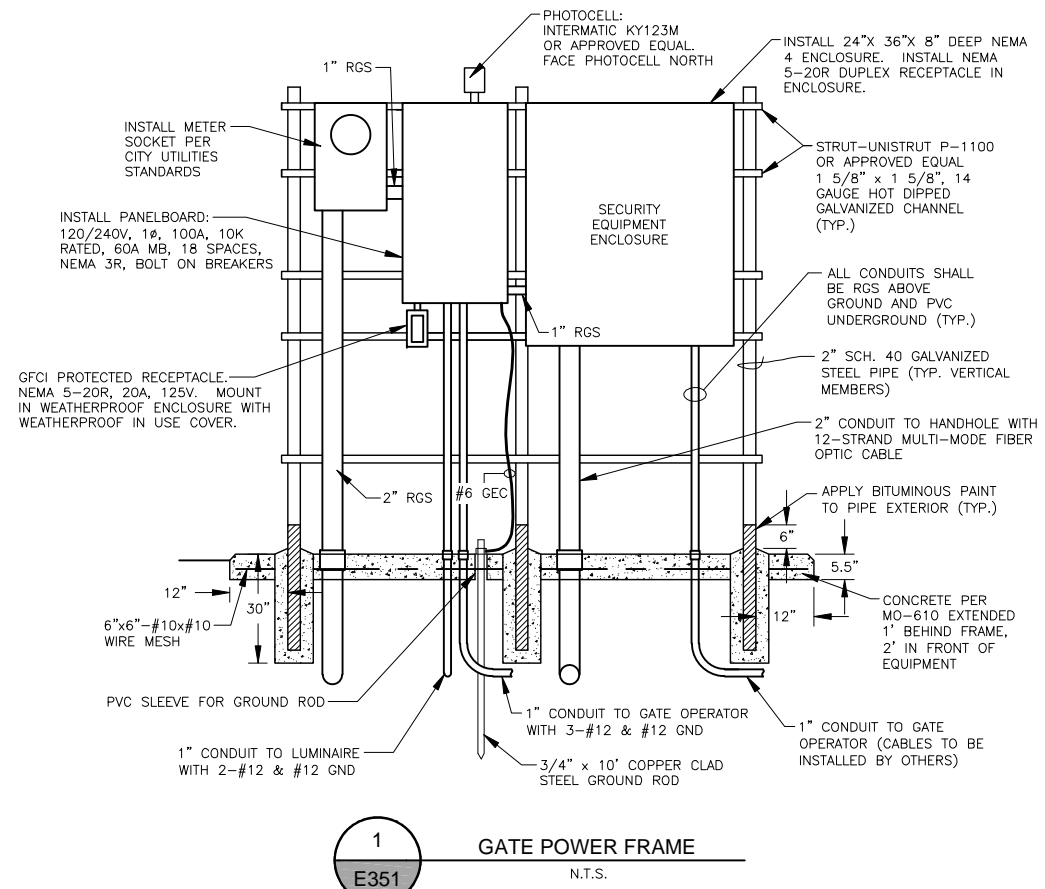
DES: J.A.W.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: J.A.W.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

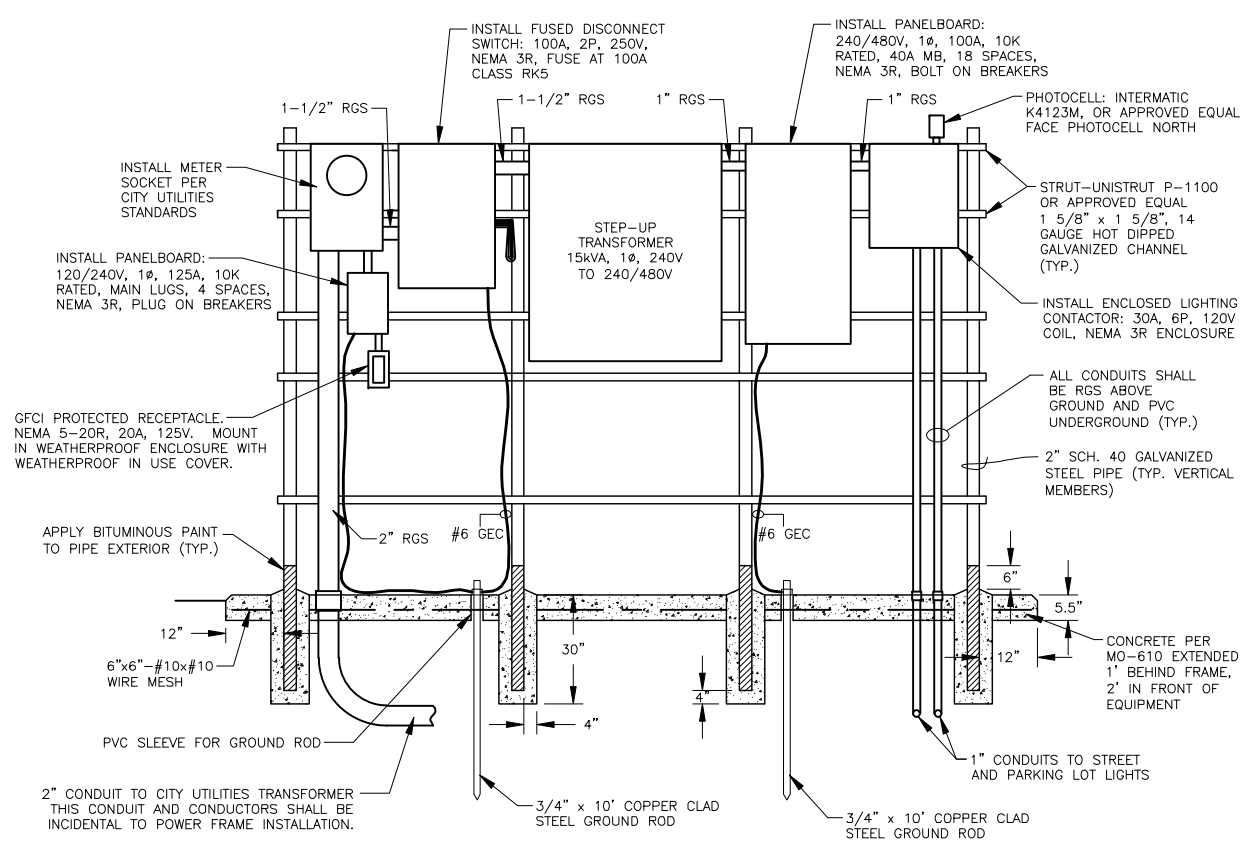
ELECTRICAL DETAILS

JVIATION PROJ. NO. AIR 126-092A1 DATE: 07/08/13

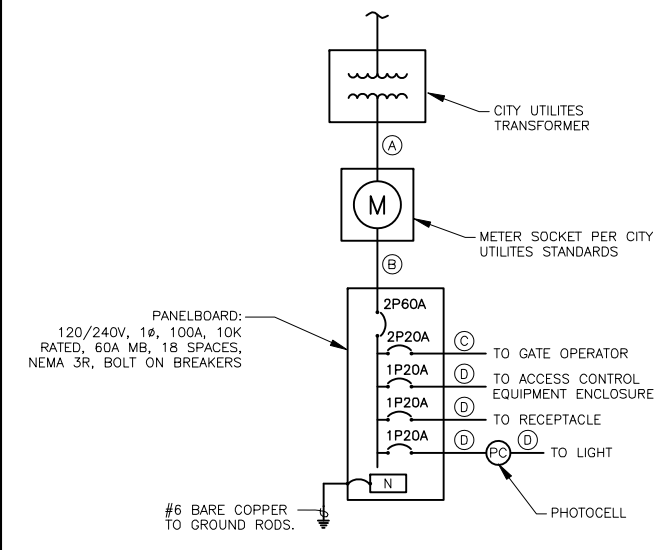
SHEET NAME
E350
SHEET NO.
128 of 130



1
E351 **GATE POWER FRAME**
N.T.S.



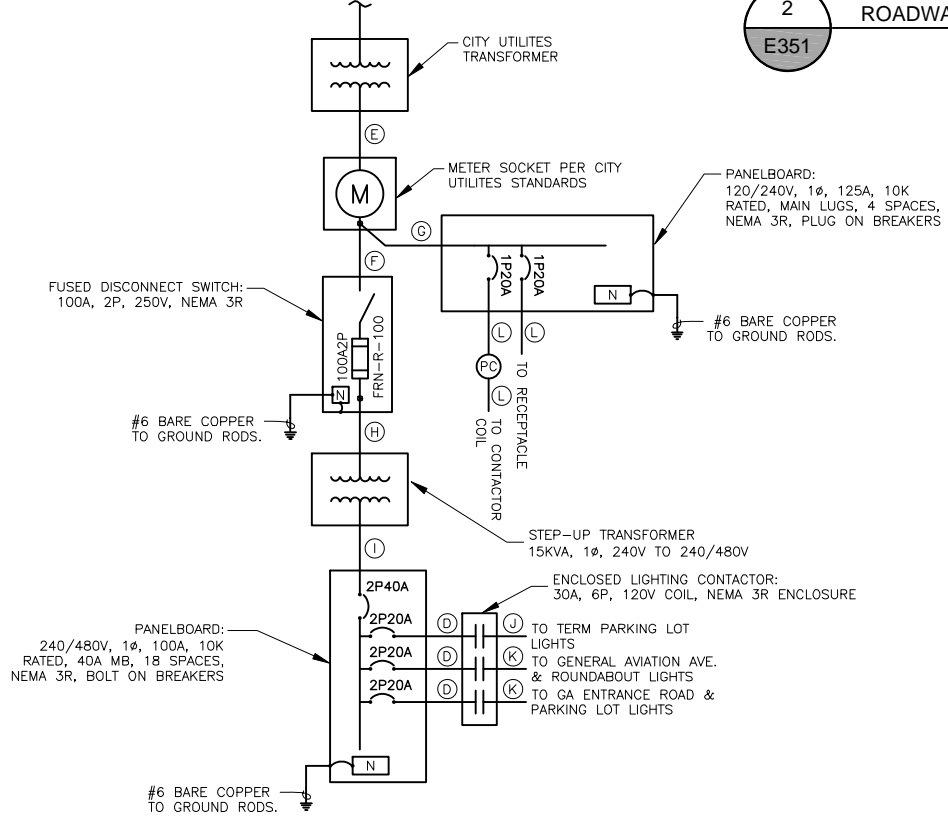
2
E351 **ROADWAY LIGHTING POWER FRAME**
N.T.S.



3
E351 **ONE-LINE DIAGRAM GATE POWER FRAME**
N.T.S.

FEEDER AND BRANCH CIRCUIT SCHEDULE

- (A) 3-#6 IN 2" CONDUIT
- (B) 3-#6 IN 1" CONDUIT
- (C) 3-#12 & #12 GND IN 1" CONDUIT
- (D) 2-#12 & #12 GND IN 1" CONDUIT
- (E) 3-#2 IN 2" CONDUIT
- (F) 3#2 IN 1-1/2" CONDUIT
- (G) 3-#6 IN 1" CONDUIT
- (H) 2-#2 & #8 GND IN 1-1/2" CONDUIT
- (I) 3-#8 & #10 GND IN 1" CONDUIT
- (J) 3-#8 & #8 GND IN 1" CONDUIT
- (K) 3-#10 & #10 GND IN 1" CONDUIT
- (L) 2-#12 & #12 GND IN 1/2" CONDUIT



4
E351 **ONE-LINE DIAGRAM ROADWAY LIGHTING POWER FRAME**
N.T.S.

**ISSUE FOR BID
NOT FOR CONSTRUCTION**

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JOEL A. WIECHMANN PE-2012033774 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

REISSUE ENTIRE SHEET

JVIATION, INC. 12/13/13
 PROJECT: W. KEARNEY TERMINAL PARKING LOT AND GA REDEVELOPMENT
 SHEET: E351
 DATE: 07/08/13
 DRAWN BY: JVIATION



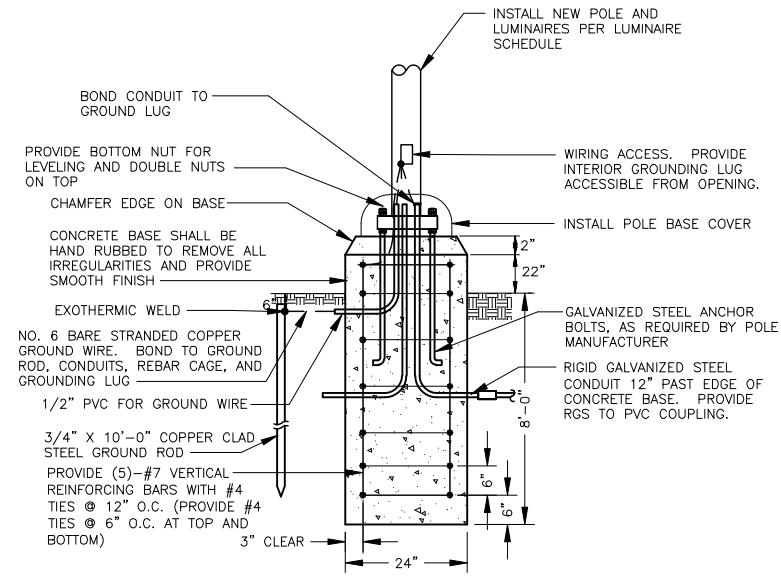
ISSUE RECORD				
DES: J.A.W.	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: J.A.W.				

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

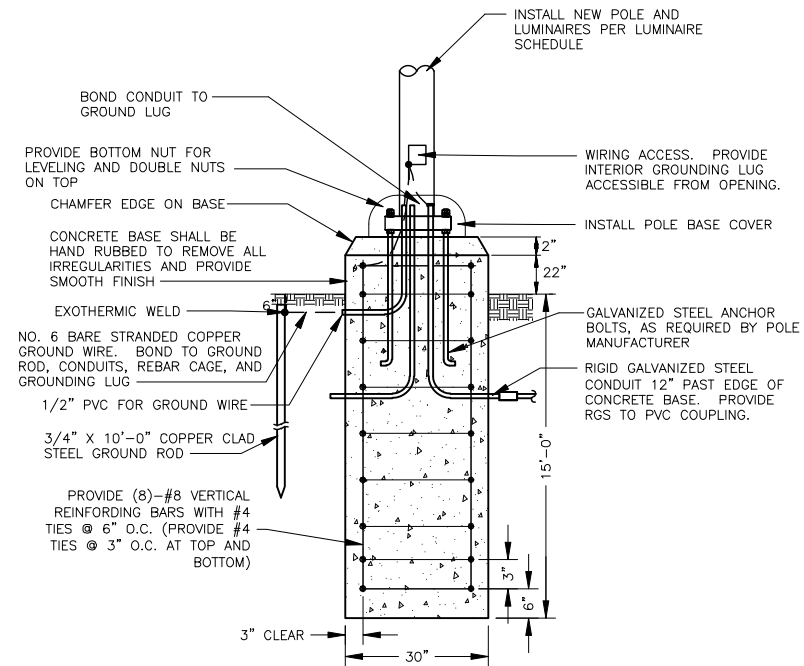
ELECTRICAL DETAILS

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
E351
SHEET NO.
129 of 130



1
E352
20' & 30' LIGHT POLE BASE DETAIL
N.T.S.



2
E352
50' LIGHT POLE BASE DETAIL
N.T.S.

LIGHTING FIXTURE SCHEDULE					
TYPE	MANUFACTURER/MODEL	DESCRIPTION	VOLTAGE	LAMPS	MOUNTING
A	McGRAW-EDISON GSM-AIS-400-HPS- 240-3V-SG-BK	GALLERIA SQUARE AREA LUMINAIRE WITH TYPE III DISTRIBUTION, VERTICAL LAMP, SAG GLASS, BLACK FINISH	240	1x400W HIGH PRESSURE SODIUM	SINGLE LUMINAIRE MOUNTED ON 20' SQUARE STEEL POLE, BLACK FINISH
B	McGRAW-EDISON GSL-AIS-1000-HPS- 480-3V-SG-BK	GALLERIA SQUARE AREA LUMINAIRE WITH TYPE III DISTRIBUTION, VERTICAL LAMP, SAG GLASS, BLACK FINISH	480	2x1000W HIGH PRESSURE SODIUM	TWO LUMINAIRES MOUNTED IN 180' CONFIGURATION ON 50' SQUARE STEEL POLE, BLACK FINISH
C	McGRAW-EDISON GSM-AIS-400-HPS- 480-3V-SG-BK	GALLERIA SQUARE AREA LUMINAIRE WITH TYPE III DISTRIBUTION, VERTICAL LAMP, SAG GLASS, BLACK FINISH	480	2x400W HIGH PRESSURE SODIUM	TWO LUMINAIRES MOUNTED IN 180' CONFIGURATION ON 20' SQUARE STEEL POLE, BLACK FINISH
D	McGRAW-EDISON GSM-AIS-250-HPS- 480-2S-FG-BK	GALLERIA SQUARE AREA LUMINAIRE WITH TYPE II DISTRIBUTION, HORIZONTAL LAMP, FLAT GLASS, BLACK FINISH	480	1x250W HIGH PRESSURE SODIUM	SINGLE LUMINAIRE MOUNTED ON 20' SQUARE STEEL POLE, BLACK FINISH
E	McGRAW-EDISON GSM-AIS-400-HPS- 480-3S-FG-BK	GALLERIA SQUARE AREA LUMINAIRE WITH TYPE III DISTRIBUTION, HORIZONTAL LAMP, FLAT GLASS, BLACK FINISH	480	1x400W HIGH PRESSURE SODIUM	SINGLE LUMINAIRE MOUNTED ON 30' SQUARE STEEL POLE, BLACK FINISH
E	INVUE VFS-K-A40-3-LED- 480-WST-BK	VISION FLOOD SMALL LED LUMINAIRE WITH WIDE FLOOD DISTRIBUTION, BLACK FINISH	480	40x350mA LIGHT EMITTING DIODES	STAKE MOUNTED LUMINAIRE

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A RECORD SET AS DEFINED BY LAW.
THE RECORD SETS ARE SIGNED AND
SEALED BY:

JOEL A. WIECHMANN PE-2012033774 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

REISSUE ENTIRE SHEET

JVIATION, INC. - CA - E352 - EL - EC - 1
 Jul 19, 2013 - 4:43pm
 dcooney



DES: J.A.W.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: B.A.V.	1	M.J.L.	07/08/13	ISSUE FOR BID
CH: C.L.G.	2	M.J.L.	07/19/13	ADDENDUM #1
APP: J.A.W.				

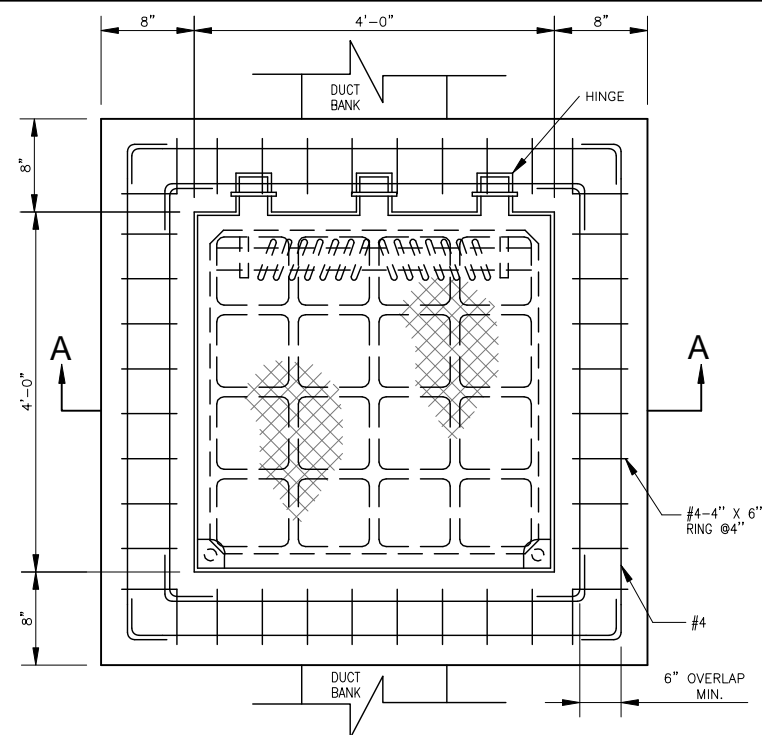
W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

ELECTRICAL DETAILS

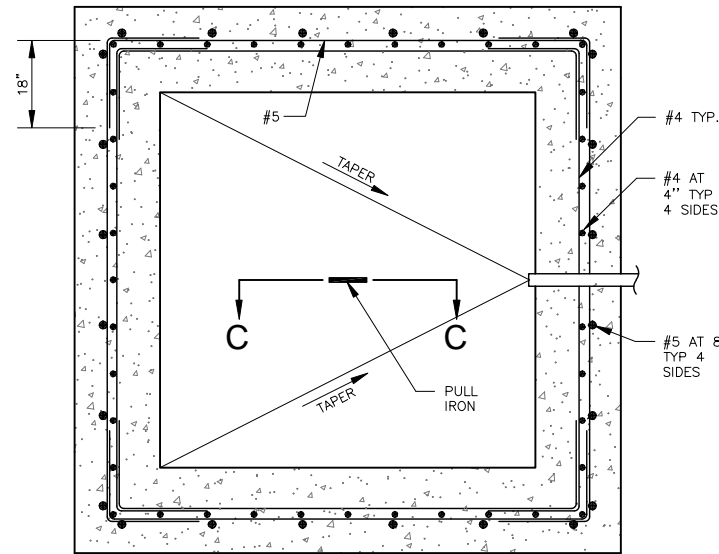
JVIATION PROJ. NO. AIR 126-092A1 DATE: 07/08/13

SHEET NAME
E352

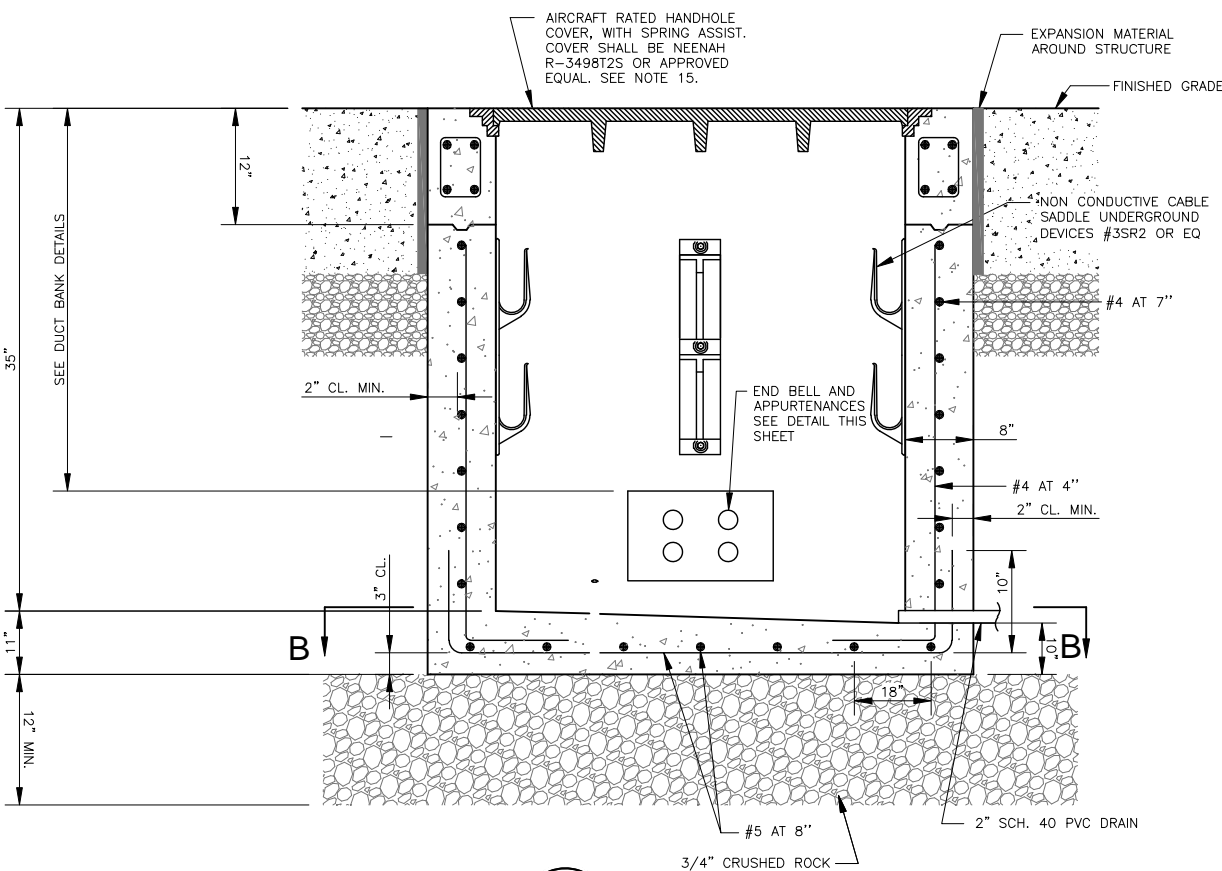
SHEET NO.
130 of 130



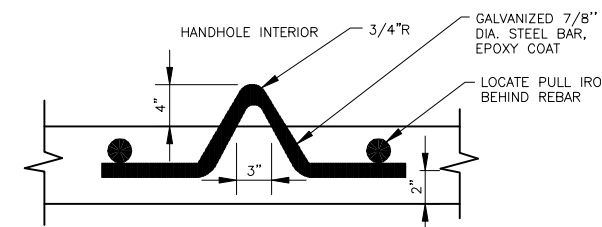
1 TOP SLAB (WITH TOP REINFORCEMENT)
E353 N.T.S.



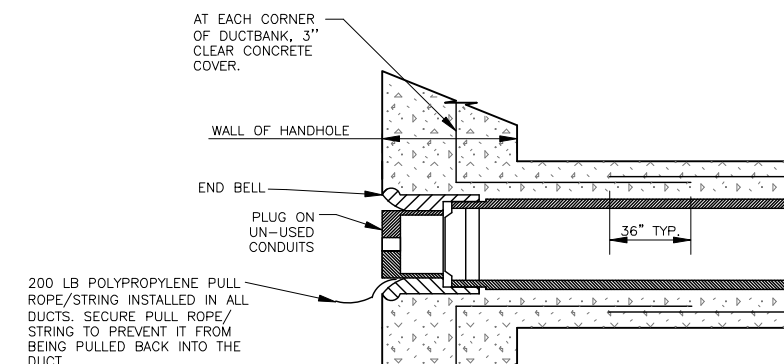
2 SECTION B-B
E353 N.T.S.



3 HANDHOLE SECTION A-A
E353 N.T.S.



4 SECTION C-C PULL IRON DETAIL
E353 N.T.S.



5 TYPICAL END OF DUCT DETAIL
E353 N.T.S.

GENERAL NOTES FOR CONDUITS, DUCT BANKS AND HANDHOLES:

- THIS CONTRACTOR SHALL INSTALL A 200 LB. POLYPROPYLENE PULL ROPE/STRING IN EACH DUCT AND CONDUIT INSTALLED AND PLUG OR CAP THE DUCT. THE ROPE SHALL BE SECURELY ATTACHED TO THE PULL IRON IN EACH HANDHOLE, OR A STAKE WHERE THE DUCT TERMINATES UNDERGROUND.
- DUCTBANKS SHALL DRAIN TOWARD THE HANDHOLES WITH THE CROWN OF THE DUCT BANK MIDWAY BETWEEN HANDHOLES. THE DUCT SLOPE SHALL BE THREE (3) INCHES PER ONE HUNDRED (100) FEET.
- ALL HANDHOLES SHALL BE INSTALLED AS SHOWN ON THE PLANS. COORDINATE FINAL LOCATION WITH GRADING AND DRAINAGE AND PAVING PLANS, WHEN EXTENDING EXISTING DUCT TO NEW HANDHOLE, PUT HANDHOLE IN LINE WITH EXISTING DUCT, WHEN POSSIBLE. HANDHOLES SHALL NOT BE INSTALLED IN DITCHES, DRAINAGE SWALES OR WHERE WATER WILL POND ON TOP OF THE HANDHOLE.
- ALL PVC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 AND CONFORM TO FEDERAL SPECIFICATION W.C.-1094 AND SHALL BE U.L. LISTED.
- PVC PLUGS SHALL BE INSTALLED IN EACH EMPTY SLEEVE AND DUCT.
- THE HANDHOLES SHALL BE LOCATED AS SHOWN ON THE DRAWING. THE TOP OF THE HANDHOLES SHALL BE 1" MIN (+1" TOL) ABOVE THE FINISHED GRADE INCLUDING THE SOD OR TURF, EXCEPT WHEN INSTALLED IN PAVEMENT.
- A PULLING IRON AS SHOWN IN DETAIL 4 SHALL BE PROVIDED ON THE BOTTOM OF THE HANDHOLE.
- ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 AND THE CONCRETE SHALL BE M0-610 WITH A 28 DAY STRENGTH OF 4000 PSI. ALL HANDHOLES SHALL BE PRECAST. CAST-IN-PLACE MAY BE USED, AFTER REVIEW AND APPROVAL OF THE PROJECT MANAGER.
- ALL WALL REINFORCEMENT (LOOP AND VERTICAL) AFFECTED BY DUCTWORK SHALL BE RELOCATED ON EITHER SIDE OF THE DUCT, AND DETAILED IN THE SUBMITTAL.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REINFORCING STEEL AND OTHER CONSTRUCTION DETAILS (SHIP-LAP JOINT, ETC.) PRIOR TO FABRICATION.
- IN THE EVENT ANY HANDHOLE COVER IS NOT INSTALLED WHEN BOX IS PLACED, THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ASSURE SAFETY. THE SAFETY MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BARRICADING THE HANDHOLE SITE.
- ALL HANDHOLES ARE AIRCRAFT RATED AND SHALL BE PROVIDED WITH A HINGED, HEAVY DUTY HANDHOLE COVER. THE COVER SHALL BE CAST FLUSH WITH THE TOP OF THE HANDHOLE SLAB. THE HANDHOLES SHALL MEET THE REQUIREMENTS OF FAA A/C 150/5320-6 LATEST EDITION. THE FRAME AND COVER MANUFACTURER SHALL CERTIFY THAT THE COVER IS RATED TO EXCEED THE REQUIREMENTS OF A/C-150/5320-6 LATEST EDITION. THE COVERS SHALL BE FURNISHED WITH HOLD OPEN SAFETY BARS, STAINLESS STEEL SPRING ASSIST TO LOWER THE LIFTING FORCE. FURNISH ONE TEE BAR PER HANDHOLE FOR OPENING THE LATCH. INSTALL WITH SAFETY BOLT HOLD DOWNS AND HOLD OPEN SAFETY BARS. THE COVER SHALL BE NEEHAH CAT # R-3498T25 OR APPROVED EQUAL. ALL ALTERNATES SHALL BE THOROUGHLY EVALUATED TO ENSURE IT MEETS THE NEEDS OF THE AIRPORT. AT THE PROJECT MANAGERS REQUEST, A SAMPLE HANDHOLE COVER SHALL BE DELIVERED TO THE AIRPORT FOR EVALUATION WITH THE CONTRACTOR'S SUBMITTAL AT THE CONTRACTOR'S EXPENSE.
- ALL HANDHOLE COVERS SHALL HAVE SURFACE LETTERING AS FOLLOWS: "COMMUNICATIONS"
- GROUT OVER LIFTING EYES AND PRECAST SECTION SEAMS.
- DEWATERING FOR THE INSTALLATION OF HANDHOLES, DUCT BANKS OR CONDUITS IS INCIDENTAL TO THE RESPECTIVE PAY ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR AND OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEWATERING.

NEW SHEET

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JOEL A. WIECHMANN PE-2012033774 07/08/13
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

JVIATION, Inc. 12/11/13
 Project: Springfield-Branson National Airport
 Drawing: E353-EL-01
 Date: Jul 19, 2013 3:04pm
 Designer: JVIATION

JVIATION



ISSUE RECORD				
NO.	BY	DATE	DESCRIPTION	
1	M.J.L.	07/08/13	ISSUE FOR BID	
2	M.J.L.	07/19/13	ADDENDUM #1	

W. KEARNEY TERMINAL
PARKING LOT AND GA
REDEVELOPMENT

ELECTRICAL DETAILS

JVIATION PROJ. NO. AIR 126-092A1
DATE: 07/08/13

SHEET NAME
E353
SHEET NO.
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