

**CITY OF EL PASO, TEXAS  
AGENDA ITEM  
DEPARTMENT HEAD'S SUMMARY FORM**

**DEPARTMENT:** Department of Transportation

**AGENDA DATE:** Public Hearing: December 17, 2013

**CONTACT PERSON NAME AND PHONE NUMBER:** Ted Marquez, P.E. (915)621-6757,  
marqueztx@elpasotexas.gov

**DISTRICT(S) AFFECTED:** District 3

**SUBJECT:**

Acceptance of an Advance Funding Agreement for Voluntary Maintenance by a Local Government (On-System), made by and between the State of Texas, Department of Transportation and the City of El Paso, Texas.

**BACKGROUND/DISCUSSION:**

This interlocal agreement between the State of Texas, Department of Transportation and the City of El Paso is necessary to allow for the continued maintenance of the landscaping and other aesthetic elements/treatments within the right of way of IH-10 at Airway Blvd. This area is being jointly developed with the State of Texas, Department of Transportation providing the construction and the City of El Paso providing continued maintenance. The continued maintenance to be provided will be funded through the Department of Transportation Medians Maintenance Program.

**PRIOR COUNCIL ACTION:**

N/A

**AMOUNT AND SOURCE OF FUNDING:**

N/A

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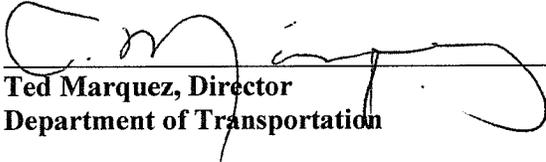
**BOARD / COMMISSION ACTION:**

N/A

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\*\*\*\*\*REQUIRED AUTHORIZATION\*\*\*\*\*

**DEPARTMENT HEAD:**

  
\_\_\_\_\_  
Ted Marquez, Director  
Department of Transportation

*Information copy to Jane Shang, Deputy City Manager*

**RESOLUTION**

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:**

That the City Manager be authorized to sign an Advance Funding Agreement For Voluntary Maintenance By A Local Government (On-System) by and between the City of El Paso (the "City") and the State of Texas, acting by and through the Texas Department of Transportation, whereby the City agrees to maintain the landscaping and other aesthetic improvements within the right of way of IH-10 at Airway Blvd, upon completion of the Airway Aesthetic Improvement project by the Camino Real Regional Mobility Authority.

**ADOPTED** this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

THE CITY OF EL PASO

ATTEST:

\_\_\_\_\_  
Oscar Leaser,  
Mayor

\_\_\_\_\_  
Richarda D. Momsen,  
City Clerk

APPROVED AS TO FORM:

APPROVED AS TO CONTENT:

\_\_\_\_\_  
Cynthia Osborn  
Assistant City Attorney

\_\_\_\_\_  
Jane Shang  
Deputy City Manager



## AMENDMENT OF SOLICITATION

### Airway Aesthetics

Federal Aid Project STP 2012 (780)

TxDOT CSJ 2121-03-153

The above titled solicitation is amended. All amendments must be acknowledged on the "PROPOSAL" I-C-Page 1; failure to do so may be cause for rejection of bid.

The date specified for receipt of offers is NOT extended:

**Bid Date: August 28, 2013 @ 2:00 PM (MST)**

Addendum No. 1  
August 22, 2013

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The surety company providing the Payment Bond shall designate an agent resident who resides within the County of El Paso to whom any requisite notices may be delivered and with whom service of process may be rendered in matters arising out of surety ship.

In accordance with Section 3503.004 of the TEXAS INSURANCE CODE, if a Performance or Payment Bond is an amount in excess of ten percent (10%) of the surety's capital and surplus, CRRMA will require, as a condition to accepting the bond(s), a written certification from the surety that the surety has reinsured the portion of the risk that exceeds ten percent (10%) of the surety's capital and surplus with one or more reinsurers who are duly authorized, accredited or trusted to do business in the State of Texas. If any portion of the surety's obligation is reinsured, the amount reinsured may not exceed 10% of the reinsurer's capital and surplus.

The required bonds shall be executed only by a surety company that is authorized to write surety bonds in Texas. If the amount of the bond exceeds \$100,000, the surety company must also: (a) hold a certificate of authority from the United States secretary of the treasury to qualify as a surety on obligations permitted or required under federal law; or (b) have obtained reinsurance for any liability in excess of \$100,000 from a reinsurer that: (1) is an authorized reinsurer in this state; and (2) holds a certificate of authority from the United States secretary of the treasury to qualify as a surety or reinsurer on obligations permitted or required under federal law. To determine whether the surety on the bond or the reinsurer holds a certificate of authority from the United States secretary of the treasury, a party may conclusively rely on the list published in the Federal Register by the United States Department of the Treasury, covering the date on which the bond was executed, of the companies holding certificates of authority as acceptable sureties on federal bonds and as acceptable reinsuring companies.

## 11. TIME OF COMPLETION AND LIQUIDATED DAMAGES



Bidder agrees to commence work on a date to be specified in a written "Notice to Proceed" issued by the Owner. The Contract Time shall begin on the date to commence work specified in the Notice to Proceed and shall run for **ONE HUNDRED NINETY (190)** additional **WORKING DAYS thereafter**. Bidder shall substantially complete the project within **ONE HUNDRED SEVENTY (170) WORKING DAYS** after the date to commence work in the Notice to Proceed. Bidder agrees to pay, as liquidated damages, the sum of **NINE HUNDRED AND SEVENTY DOLLARS AND ZERO CENTS (\$970)** for each working day after the expiration of the Contract Time for Remaining Work, as provided in Paragraph 6.8.3.1 of the General Conditions. The unit price quantities of this contract are estimated.

## 12. CONDITIONS OF WORK

Each Bidder must inform himself/herself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do

# PROPOSAL

CAMINO REAL REGIONAL MOBILITY AUTHORITY (CRRMA)  
EL PASO, TEXAS

The undersigned having familiarized themselves with the local conditions affecting the cost of work and with the Contract documents consisting of Invitation to Bid, Instructions to Bidders, General Conditions, the Contractor's Proposal, Special Bid Conditions, Applicable Wage Rates, the Contract Form, plans, specifications, and addenda on file in the office of the Financial Services Department of CRRMA hereby propose to perform everything required to be performed and to provide furnish and install all the labor, materials, necessary structure adjustments, necessary tools, expendable equipment, and all utility and transportation services, and to complete in a workmanlike manner all the work required for the

## Airway Aesthetics

Federal Aid Project STP 2012 (780)

TxDOT CSJ 2121-03-153

Within the specified limits and in accordance with the plans and specifications as prepared by the CRRMA including **Addenda numbers** \_\_\_\_\_, AT THE FOLLOWING UNIT PRICES.

**Each bid must be submitted on the prescribed FORM and All blank spaces for bid prices must be filled in, in ink or typewritten. FAILURE TO FILL IN ALL BLANK SPACES SHALL CAUSE THE BID PROPOSAL TO BE DEEMED NOT RESPONSIVE AND BID PROPOSAL WILL NOT BE CONSIDERED IN DETERMINING THE LOWEST RESPONSIBLE BIDDER. Line item entries shall prevail over sum total entries. When discrepancies exist between unit prices and corresponding extended prices, unit prices shall prevail.**

**NOTE:** The quantities shown in the unit price schedule are ESTIMATES ONLY. They are shown here only for the purpose of comparing bids as an expected total expenditure. CRRMA, at its sole discretion, will direct exactly how many actual units will be placed, and will pay for only those units that are ordered and accepted. No payments will be made regarding the estimated quantities, they are estimates only.

Estimates are minimums, but not guaranteed minimums, and the contract cost can increase so long as the unit costs remain the same and the increased funds are appropriated in the budget.

**Note:** For this solicitation, the lowest responsible bid will be determined in the following manner:

The SUM TOTAL of the Base Bid

**ONLY ONE BIDDER MAY BE AWARDED A CONTRACT PURSUANT TO THIS BID.**

COMPANY NAME: \_\_\_\_\_

BIDDER'S SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

**UNIT PRICE SCHEDULE: BASE BID**  
**CSJ 2121-03-153**

Item No.	Estimated Quantity	Unit	Item Code	Brief Description of Item	Unit Bid Price (In Figures)	Total Amount (Quantity x Unit Price) (In Figures)
1	7.38	STA	100 2002	PREPARING ROW	\$	\$
2	2,780	SY	104 2009	REMOVING CONCRETE-RIPRAP	\$	\$
3	636	SY	104 2011	REMOVING CONCRETE-MEDIANS	\$	\$
4	56	SY	104 2015	REMOVING CONCRETE-SIDEWALK	\$	\$
5	1,194	LF	104 2021	REMOVING CONCRETE-CURB	\$	\$
6	64	SY	104 2032	REMOVING CONCRETE-WHEELCHAIR RAMPS	\$	\$
7	1	LS	170 2001	IRRIGATION SYSTEM	\$	\$
8	1,295	EA	192 2002	LANDSCAPE PLANTING-RED YUCCA (1 GAL.) (HP)	\$	\$
9	205	EA	192 2002	LANDSCAPE PLANTING-TRAILING LANTANA (1 GAL.) (LP)	\$	\$
10	308	EA	192 2004	LANDSCAPE PLANTING-BIG SACATON (5 GAL.) (SW)	\$	\$
11	10	EA	192 2006	LANDSCAPE PLANTING-PALO VERDE (30 GAL.) (PP)	\$	\$
12	26	EA	192 2006	LANDSCAPE PLANTING-PRAIRIE SUMAC (30 GAL.) (RL)	\$	\$
12.1	48	EA	192 2006	LANDSCAPE PLANTING-OCOTILLO (10 GAL.) (FS)	\$	\$
12.2	141	EA	192 2006	LANDSCAPE PLANTING-AMERICAN CENTURY PLANT (10 GAL.) (AG)	\$	\$



COMPANY NAME: \_\_\_\_\_

BIDDER'S SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

Item No.	Estimated Quantity	Unit	Item Code	Brief Description of Item	Unit Bid Price (In Figures)	Total Amount (Quantity x Unit Price) (In Figures)
13	14	EA	192 2008	LANDSCAPE PLANTING-MEXICAN BLUE OAK (65 GAL.) (QO)	\$	\$
14	2,848	CY	192 2014	LANDSCAPE PLANTING-PLANT SOIL MIX	\$	\$
15	2,380	SY	192 2016	LANDSCAPE PLANTING-PLANT BED PREP	\$	\$
16	14,468	SF	403 2001	TEMPORARY SPECIAL SHORING	\$	\$
17	196	CY	420 2005	CONCRETE STRUCTURE-FOOTING	\$	\$
18	159	CY	420 2013	CONCRETE STRUCTURE-MISC	\$	\$
19	10,424	SF	423 2007	RETAINING WALL-SPREAD FOOTING	\$	\$
20	82,500	SF	427 2009	CONCRETE PAINT (EXISTING CONCRETE)	\$	\$
21	1,409	CY	432 2012	RIPRAP-STONE TY F (GROUT) (8 IN)	\$	\$
22	154,131	LB	442 2005	METAL FOR STRUCTURES (MISC)	\$	\$
23	127,549	LB	442 2048	METAL FOR STRUCTURES ( MISC NON-BRIDGE)	\$	\$
24	111	LF	481 2027	PVC PIPE FOR DRAINS (SCH 80) (4 IN DIAM.)	\$	\$
25	40	EA	484	<sup>1</sup> PVC PIPE FOR DRAINS 4"x4"x4" TEE	<b>NO BID</b>	<b>NO BID</b>
26	1	LS	500 2001	MOBILIZATION	\$	\$



COMPANY NAME: \_\_\_\_\_

BIDDER'S SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

<sup>1</sup>For Information Only

Item No.	Estimated Quantity	Unit	Item Code	Brief Description of Item	Unit Bid Price (In Figures)	Total Amount (Quantity x Unit Price) (In Figures)
27	10	MO	502 2001	BARRICADES, SIGNS, AND TRAFFIC HANDLING	\$	\$
28	200	LF	506 2030	CONSTRUCTION PERIMETER FENCE	\$	\$
29	50	EA	506 2031	SANDBAGS FOR EROSION CONTROL	\$	\$
30	3,435	LF	506 2034	TEMPORARY SEDIMENT CONTROL FENCE	\$	\$
31	140	LF	506 2052	TEMPORARY SEDIMENT CONTROL FENCE (INLET PROTECTION)	\$	\$
32	1,800	LF	512 2004	PORTABLE CONCRETE TRAFFIC BARRIER (FURNISH & INSTALL)(SNGL SLP)(TY 1)	\$	\$
33	1,260	LF	512 2022	PORTABLE CONCRETE TRAFFIC BARRIER (MOVE)(SNGL SLP)(TY 1)	\$	\$
34	1,800	LF	512 2040	PORTABLE CONCRETE TRAFFIC BARRIER (REMOVE)(SNGL SLP) (TY 1)	\$	\$
35	889	SY	528 2004	LANDSCAPE PAVERS	\$	\$
36	1,322	LF	529 2037	CONCRETE CURB TY II (REINF)	\$	\$
37	1	EA	531 2007	SIDEWALKS-CURB RAMPS (TY 3)	\$	\$
38	7	EA	531 2010	SIDEWALKS-CURB RAMPS (TY 7)	\$	\$
39	4	EA	531 2017	SIDEWALKS-CURB RAMPS (TY 21)	\$	\$
40	1	EA	531 2040	SIDEWALKS-CURB RAMPS (TY 5)	\$	\$

1

COMPANY NAME: \_\_\_\_\_

BIDDER'S SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

Item No.	Estimated Quantity	Unit	Item Code	Brief Description of Item	Unit Bid Price (In Figures)	Total Amount (Quantity x Unit Price) (In Figures)
41	3	EA	545 2049	CRASH CUSHION ATTENUATORS (INSTALL)(WORK ZONE)	\$	\$
42	3	EA	545 2051	CRASH CUSHION ATTENUATORS (REMOVE)(WORK ZONE)	\$	\$
43	1,673	LF	556 2012	PIPE UNDERDRAINS (TY 8-SCH 80) (4 IN DIAM.)	\$	\$
44	7,705	LF	618 2018	CONDUIT (PVC) (SCHD 40) (2")	\$	\$
45	955	LF	618 2066	CONDUIT (PVC) (SCHD 40) 3/4")	\$	\$
46	1,570	LF	620 2004	ELECTRICAL CONDUCTORS (NO. 2) XHHW	\$	\$
47	660	LF	620 2006	ELECTRICAL CONDUCTORS (NO. 3) XHHW	\$	\$
48	785	LF	620 2008	ELECTRICAL CONDUCTORS (NO. 4) XHHW	\$	\$
49	55	LF	620 2010	ELECTRICAL CONDUCTORS (NO. 6) XHHW	\$	\$
50	17,335	LF	620 2012	ELECTRICAL CONDUCTORS (NO. 8) XHHW	\$	\$
51	2,410	LF	620 2014	ELECTRICAL CONDUCTORS (NO. 10) XHHW	\$	\$
52	2,040	LF	620 2022	ELECTRICAL CONDUCTORS (NO. 2/0) XHHW	\$	\$
53	2	EA	624 2008	GROUND BOX TY A (122311) W/APRON	\$	\$
54	1	EA	628 2053	ELC SRV TYC 240/480 200 (NS) SS (E) SP (U)	\$	\$

COMPANY NAME: \_\_\_\_\_

BIDDER'S SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

Item No.	Estimated Quantity	Unit	Item Code	Brief Description of Item	Unit Bid Price (In Figures)	Total Amount (Quantity x Unit Price) (In Figures)	
55	321	FT	666 2384	REFLECTORIZED PAVEMENT MARKINGS-TY II (W) 12" (DOT)	\$	\$	
56	3	EA	6834 2002	PORTABLE CHANGEABLE MESSAGE SIGN	\$	\$	
57	16	EA	ELP 001	WIND TURBINES	\$	\$	
58	29	EA	ELP 002	ORNAMENTAL LIGHTED SCULPTURES	\$	\$	
59	2	EA	-----	ORNAMENTAL FABRICATED METAL STRUCTURE (MEDIAN ARTWORK)	\$	\$	△ 1
60	24	EA	-----	ORNAMENTAL FABRICATED METAL COLUMN WRAPS	\$	\$	△ 1
61	64	EA	-----	TYPE A LIGHT FIXTURE	\$	\$	△ 1
62	120	EA	-----	TYPE B LIGHT FIXTURE	\$	\$	△ 1
63	48	EA	-----	TYPE C LIGHT FIXTURE	\$	\$	△ 1
64	150	EA	-----	TYPE D LIGHT FIXTURE	\$	\$	△ 1
65	4	EA	-----	TYPE F LIGHT FIXTURE	\$	\$	△ 1
66	8	EA	-----	TYPE G LIGHT FIXTURE	\$	\$	△ 1
SUM TOTAL BID (ITEMS 1 TO 66)					\$		△ 1

COMPANY NAME: \_\_\_\_\_

BIDDER'S SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

## CONTRACT TIME AND LIQUIDATED DAMAGES



Bidder agrees to commence work on a date to be specified in a written "Notice to Proceed" issued by the Owner. The Contract Time shall begin on the date to commence work specified in the Notice to Proceed and shall run for **ONE HUNDRED NINETY (190)** additional **WORKING DAYS** thereafter. Bidder shall Substantially Complete the project within **ONE HUNDRED SEVENTY (170) WORKING DAYS** after the date to commence work in the Notice to Proceed. Bidder agrees to pay, as liquidated damages, the sum of **NINE HUNDRED AND SEVENTY DOLLARS AND ZERO CENTS (\$970)** for each working day after the expiration of the Contract Time for Remaining Work, as provided in Paragraph 6.8.3.1 of the General Conditions. The unit price quantities of this contract are estimated.

THIS AGREEMENT, made this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_ by and between CRRMA, hereinafter called "Owner", acting herein through its Executive Director - Raymond Telles and \_\_\_\_\_(circle one of the following: a corporation, a partnership, an individual), located in: CITY OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_ and STATE OF \_\_\_\_\_ hereinafter called "Contractor".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned, to be made and performed by the Owner, the Contractor hereby agrees with the Owner to commence and complete the construction described as follows:

**Airway Aesthetics**  
**Federal Aid Project STP 2012 (780)**  
**TxDOT CSJ 2121-03-153**

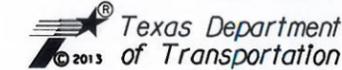


hereinafter called the "Project", for the sum of \_\_\_\_\_ Dollars and \_\_\_\_ Cents (\$\_\_\_), and all extra work in connection therewith, under the terms as stated in the contract documents; and at Contractor(s) own proper cost and expense to furnish all the materials, supplies, machinery, equipment, tools, superintendence, labor, insurance and other accessories and services necessary to complete the said Project, in accordance with the conditions and prices stated in the Proposal, the General Conditions, Supplemental General Conditions and Special Conditions of the Contract, the plans, which include all maps, plats, blueprints and other drawings and printed or written explanatory matter thereof, the specifications and contract documents thereof as furnished by CRRMA or designated representative, and as enumerated in Paragraph 1.5 of the General Conditions, all of which are made a part hereof and collectively evidence and constitute the Contract.

The Contractor agrees to commence work on a date to be specified in a written "Notice to Proceed" issued by the Owner. The Contract Time shall begin on the date to commence work specified in the "Notice to Proceed" and shall run thereafter for **ONE HUNDRED NINETY (190) WORKING DAYS**. Contractor shall Substantially Complete the project within **ONE HUNDRED SEVENTY (170) WORKING DAYS** after the date to commence work in the "Notice to Proceed." Contractor agrees to pay, as liquidated damages, the sum of **NINE HUNDRED AND SEVENTY DOLLARS AND ZERO CENTS (\$970)** for each working day after the expiration of the Contract Time for Remaining Work, as provided in Paragraph 6.8.3.1 of the General Conditions. The unit price quantities of this contract are estimated.

SUMMARY OF AESTHETIC ITEMS									
ITEM	100 2001	403 2001	423 2007	420 2005	420 2013	442 2005	442 2048	ELP 001	ELP 002
DESCRIPTION	PREPARING ROW	TEMPORARY SPL SHORING	RETAINING WALL (SPREAD FOOTING)	CL C CONC (FOOTING)	CL C CONC (MISC)	STR STL (MISCELLANEOUS)	STR STEEL (MISC NON-BRIDGE)	WIND TURBINES	ORNAMENTAL LIGHTED SCULPTURES
	AC	SF	SF	CY	CY	LB	LB	EA	EA
NW & NE QUADRANTS TURBINES/ORNAMENTAL FOUNDATION LAYOUT		1,654							
SW & SE QUADRANTS TURBINES/ORNAMENTAL FOUNDATION LAYOUT		1,322							
PLANTER WALL APWNW PLAN AND PROFILE (NW QUADRANT)		2,213	2,025						
PLANTER WALL APWNE PLAN AND PROFILE (NE QUADRANT)		1,675	1,496						
PLANTER WALL APWSW PLAN AND PROFILE (SW QUADRANT)		2,888	2,623						
PLANTER WALL APWSE PLAN AND PROFILE (SE QUADRANT)									
SHEET 1 OF 2		2,879	2,665						
SHEET 2 OF 2		1,837	1,615						
AESTHETIC IMPROVEMENT TURBINE BASE FRAME PLAN AND ELEVATION									
SHEET 1 OF 5						67,812			
SHEET 2 OF 5						64,653			
SHEET 3 OF 5						59,737			
SHEET 4 OF 5						89,478			
SHEET 5 OF 5									
TURBINE & ORNAMENTAL FOOTING, SLAB, STEM WALL, & WALL DETAILS				195.7	158.7			16	29
<b>TOTAL</b>	<b>1.00</b>	<b>14,468.00</b>	<b>10,424.00</b>	<b>195.7</b>	<b>158.7</b>	<b>154,131</b>	<b>127,549</b>	<b>16</b>	<b>29</b>

SUMMARY OF TRAFFIC CONTROL ITEMS							
ITEM	502 2001	512 2004	512 2022	512 2040	545 2049	545 2051	6834 2002
DESCRIPTION	BARRICADES, SIGNS AND TRAFFIC HANDLING	PORT CTB (FUR & INST) (SNGL SLP) (TY 1)	PORT CTB (MOVE) (SNGL SLP) (TY 1)	PORT CTB (REMOVE) (SNGL SLP) (TY 1)	CRASH CUSH ATTN (INSTL) (WORK ZONE)	CRASH CUSH ATTN (REMOVE) (WORK ZONE)	PORTABLE CHANGEABLE MESSAGE SIGN
	MO	LF	LF	LF	EA	EA	EA
TRAFFIC CONTROL PLAN PHASE I							
SHEET 1 OF 2		1,043		540	1	1	
SHEET 2 OF 2		757					
TRAFFIC CONTROL PLAN PHASE II							
SHEET 1 OF 2			1,260	1,260	2	2	
SHEET 2 OF 2							
ADVANCE WARNING SIGN LAYOUT (EB [H-10])							2
ADVANCE WARNING SIGN LAYOUT (WB [H-10])							1
<b>TOTAL</b>	<b>10</b>	<b>1,800</b>	<b>1,260</b>	<b>1,800</b>	<b>3</b>	<b>3</b>	<b>3</b>

8/19/13	REVISED DURATION	RP				
REV. NO.	DATE	DESCRIPTION	BY			
 <b>CAMINO REAL</b> REGIONAL MOBILITY AUTHORITY						
 <b>AIA ENGINEERS, LTD.</b> CONSULTANTS 800 NORTH MESA, SUITE 150, EL PASO, TX 79902 PHONE: (915) 313-3680 TBPE #2801						
 Texas Department of Transportation						
<b>AIRWAY AESTHETICS</b> <b>SUMMARY OF QUANTITIES</b>						
DSN:	FED. NO. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.		
CK:	6	TEXAS		1-10		
DRN:	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
CK:	ELP	EL PASO	2121	03	153	6

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PLANTING PLAN QUANTITY SUMMARY											
	ITEM NO.	192									
	DESC.	2014	2016	2002		2004	2032		2006		2008
	UNIT	CY	SY	EA	EA	EA	EA	EA	EA	EA	EA
		PLANT SOIL MIX	PLANT BED PREP	TRAILING LANTANA (1 GAL.) (LP)	RED YUCCA (1 GAL.) (HP)	BIG SACATON (5 GAL.) (SW)	OCOTILLO (10 GAL.) (FS)	AMERICAN CENTURY PLANT (10 GAL.) (AG)	PALO VERDE (30 GAL.) (PP)	PRAIRIE SUMAC (30 GAL.) (RL)	MEXICAN BLUE OAK (65 GAL.) (QO)
SHEET NAME	SHEET NO.										
PLANTING PLANS SHEETS	2 OF 7	250.32	0	0	105	12	5	12	0	4	0
PLANTING PLANS SHEETS	3 OF 7	844.52	0	0	350	107	15	54	3	9	6
PLANTING PLANS SHEETS	4 OF 7	1114.71	0	0	392	118	19	48	0	10	6
PLANTING PLANS SHEETS	5 OF 7	638.45	0	0	263	52	9	27	7	0	2
PLANTING PLANS SHEETS	6 OF 7	0	2380	205	185	19	0	0	0	3	0
<b>TOTALS</b>		<b>2,848</b>	<b>2,380</b>	<b>205</b>	<b>1,295</b>	<b>308</b>	<b>48</b>	<b>141</b>	<b>10</b>	<b>26</b>	<b>14</b>

HARDSCAPE QUANTITY SUMMARY		
	ITEM NO.	432
	DESC.	2012
	UNIT	CY
		RIPRAP (STONE TY F) (GROUT) (8 IN)
SHEET NAME	SHEET NO.	
ENLARGED LAYOUT PLAN SHEETS	1 OF 2	174.1
ENLARGED LAYOUT PLAN SHEETS	2 OF 2	1234.8
<b>TOTALS</b>		<b>1408.9</b>

LANDSCAPE IRRIGATION QUANTITY SUMMARY		
	ITEM NO.	170
	DESC.	2001
	UNIT	LS
		IRRIGATION SYSTEM
SHEET NAME	SHEET NO.	
LANDSCAPE IRRIGATION PLAN	1 THRU 7	1
<b>TOTALS</b>		<b>1</b>

REV.NO.	DATE	DESCRIPTION	BY
1	8.15.2013	RIPRAP	JB



AIRWAY AESTHETICS  
LANDSCAPE QUANTITY  
SUMMARY

L0.01 SHEET 1 OF 2

PSN:	FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
CK:	6	TEXAS				HWY 1-10
DRN:	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
CK:	ELP	EL PASO	2121	03	153	8

SCULPTURE QUANTITY SUMMARY			
	ITEM NO.		
	DESC.		
	UNIT	EA	EA
		FABRICATED METAL STRUCTURE	FABRICATED METAL COLUMN WRAPS
SHEET NAME	SHEET NO.		
STRUCTURAL SHEETS S1.00 & S0.03	1 OF 1	2	0
ENLARGED LAYOUT PLAN GA101	1 OF 1	0	24
<b>TOTALS</b>		<b>2</b>	<b>24</b>

PAINTING QUANTITY SUMMARY		
	ITEM NO.	427
	DESC.	2009
	UNIT	SF
		CONCRETE PAINT (EXISTING CONCRETE)
SHEET NAME	SHEET NO.	
OVERALL PAINTING PLAN PA101	1 OF 3	82,500
<b>TOTALS</b>		<b>82,500</b>

ELECTRICAL QUANTITIES				
ITEM	CODE	DESCRIPTION	UNIT	SHEET QTY
0618	2018	CONDT (PVC) (SCHD 40) (2")	LF	7705
0618	2066	CONDT (PVC) (SCHD 40) (3/4")	LF	955
0620	2022	ELEC CONDR (NO. 2/0) INSULATED	LF	2040
0620	2004	ELEC CONDR (NO. 2) INSULATED	LF	1570
0620	2006	ELEC CONDR (NO. 3) INSULATED	LF	660
0620	2008	ELEC CONDR (NO. 4) INSULATED	LF	785
0620	2010	ELEC CONDR (NO. 6) INSULATED	LF	55
0620	2012	ELEC CONDR (NO. 8) INSULATED	LF	17335
0620	2014	ELEC CONDR (NO. 10) INSULATED	LF	2410
		Type A Fixture	EA	64
		Type B Fixture	EA	120
		Type C Fixture	EA	48
		Type D Fixture	EA	150
		Type F Fixture	EA	4
		Type G Fixture	EA	8
0624	2008	GROUND BOX TY A (122311) W/ APRON	EA	2
0628	2053	ELC SRV TY C 240 / 480 200 (NS) SS (E) SP (U)	EA	1

REV. NO.	DATE	DESCRIPTION	BY
1	8.20.2013	QUANTITIES	JB



AIRWAY AESTHETICS  
LANDSCAPE QUANTITY  
SUMMARY

L0.02 SHEET 2 OF 2

DSN:	FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.	
CK:	6	TEXAS			HWY 1-10	
DRN:	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
CK:	ELP	EL PASO	2121	03	153	9

8" NATURAL WIDE STONE BORDER  
(1.6) CY; DETAIL THIS SHEET  
ROCK TO EXTEND TO EDGE OF BRIDGE  
ABUTMENT, CONTRACTOR TO VERIFY LOCATION

TYPE F STONE RIPRAP  
COLOR A - REF. LEGEND  
(45.1) CY

TYPE F STONE RIPRAP  
COLOR B - REF. LEGEND  
(57.4) CY  
SEE 1/GA101B

TYPE F STONE RIPRAP  
COLOR B - REF. LEGEND  
(27.2) CY  
SEE 1/GA101B

1  
GA101B

TYPE F GROUDED  
STONE RIPRAP

ABUTMENT

R151'-5"

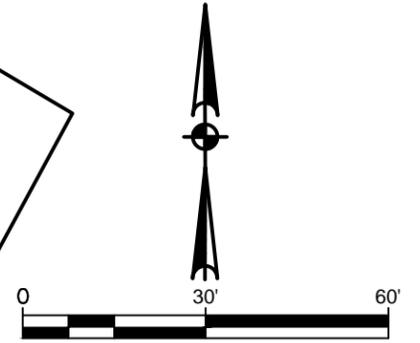
18'-4"

18'-4"

NOTE  
CONTRACTOR SHALL PROVIDE SAMPLES OR  
ARRANGE A VISIT TO A LOCAL STONE YARD FOR  
STONE APPROVAL.  
DO NOT GROUT STONE WITHIN 1'-0" OF EXISTING  
CONDUIT ON EXISTING RIPRAP.  
ALL SLOPED RIPRAP (EXISTING) SHALL HAVE STONE  
APPLIED TO SURFACE.

LEGEND	
PATTERN	DESCRIPTION
	TYPE F STONE RIPRAP COLOR A: RAINBOW BUILDING STONE OR EQUAL SIZE: 6"-8"
	TYPE F STONE RIPRAP COLOR B: FRANKLIN RED OR EQUAL SIZE: 6"-8"

SHEET QUANTITIES	
MATERIAL TYPE	QTY.
COLOR A RIPRAP (STONE TY F) (GROUT 8 IN.)	90.7 CY
COLOR B RIPRAP (STONE TY F) (GROUT 8 IN.)	174.1 CY
NATURAL STONE BORDER RIPRAP (STONE TY F) (GROUT 8 IN.) COLOR: SEDONA RED	3.2 CY



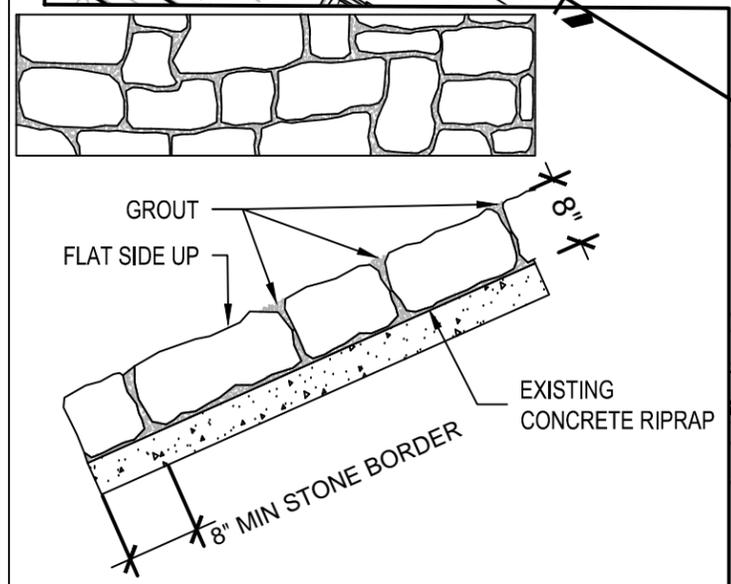
08.16.2013

REV.NO.	DATE	DESCRIPTION	BY
1	8.15.2013	RIPRAP	JB

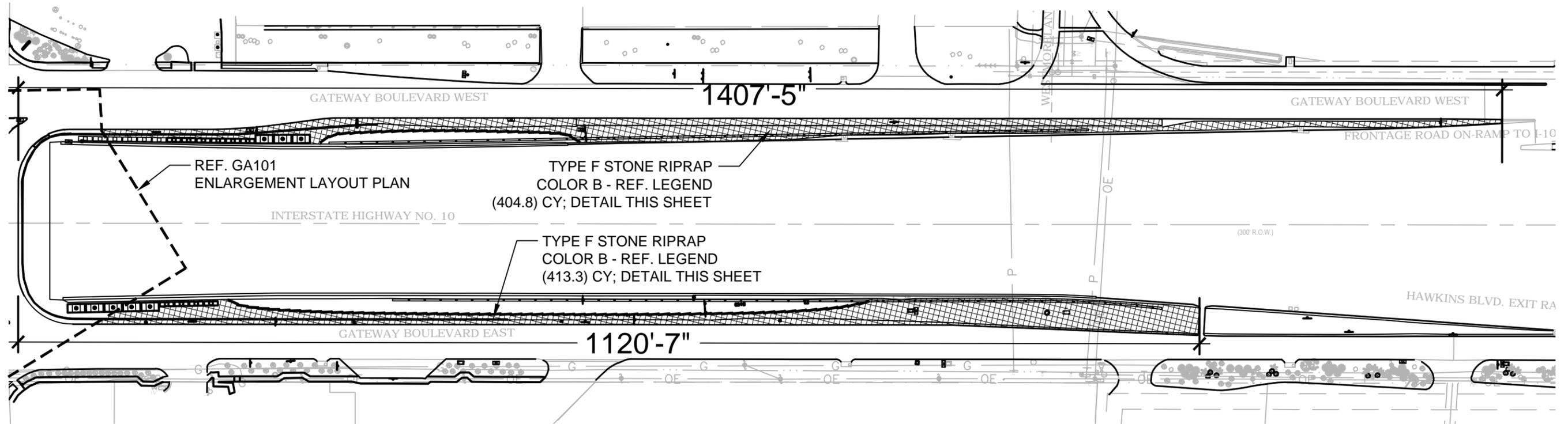


AIRWAY AESTHETICS  
ENLARGED LAYOUT PLAN

GA101		SHEET 1 OF 2	
DSN:	PRJ. NO.	STATE	PROJECT NO.
CK:	6	TEXAS	HWY 1-10
DRN:	DISTRICT	COUNTY	CONTROL NO.
CK:	ELP	EL PASO	2121
			SECTION NO.
			03
			JOB NO.
			153
			SHEET NO.
			89

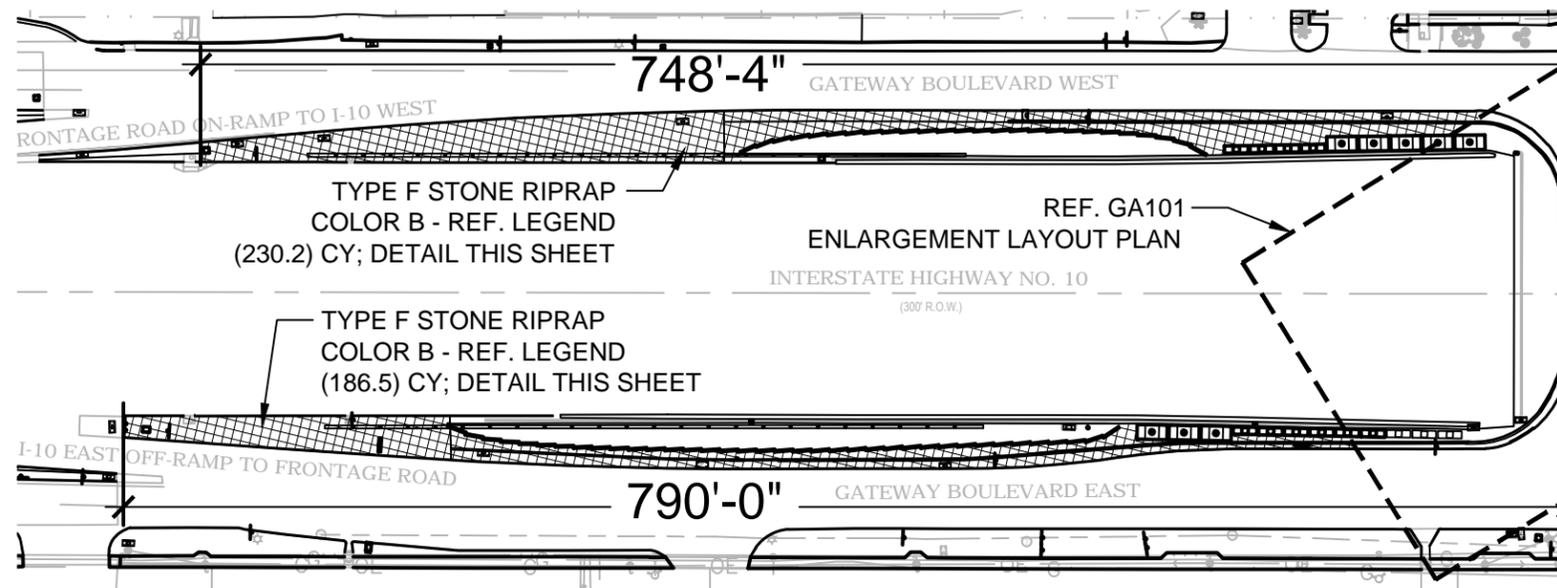
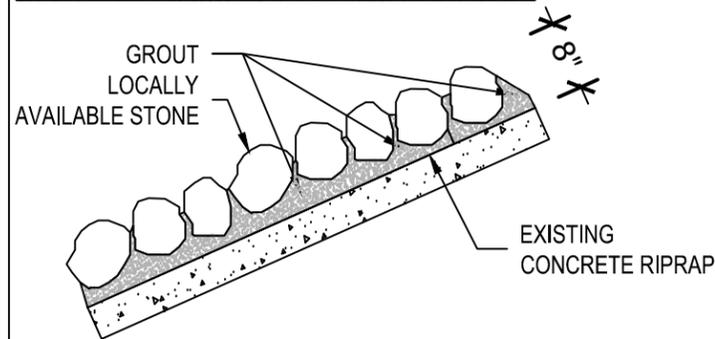
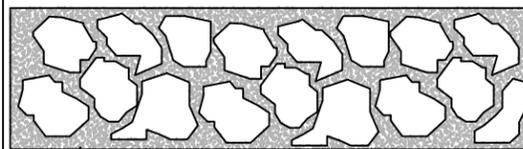
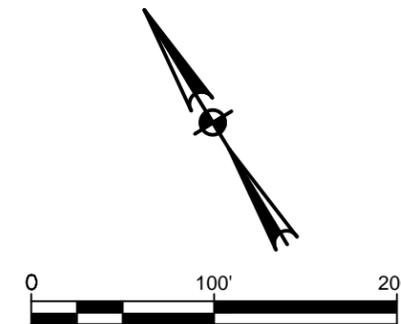


1 TYPE F STONE RIPRAP, GROUDED (NATURAL STONE BORDER)  
NTS



NOTE  
 CONTRACTOR SHALL PROVIDE SAMPLES OR ARRANGE A VISIT TO A LOCAL STONE YARD FOR STONE APPROVAL.  
 DO NOT GROUT STONE WITHIN 1'-0" OF EXISTING CONDUIT ON EXISTING RIPRAP.  
 ALL SLOPED RIPRAP (EXISTING) SHALL HAVE STONE APPLIED TO SURFACE.

LEGEND	DESCRIPTION
	TYPE F STONE RIPRAP COLOR B: FRANKLIN RED SIZE: 6"-8"
SHEET QUANTITIES	
MATERIAL TYPE	QTY.
COLOR B RIPRAP (STONE TY F) (GROUT 8 IN.)	1,234.8 CY



08.16.2013

REV. NO.	DATE	DESCRIPTION	BY
1	8.15.2013	RIPRAP	JB



**JACOBS**

JACOBS ENGINEERING GROUP INC, TX REGISTRATION #2966

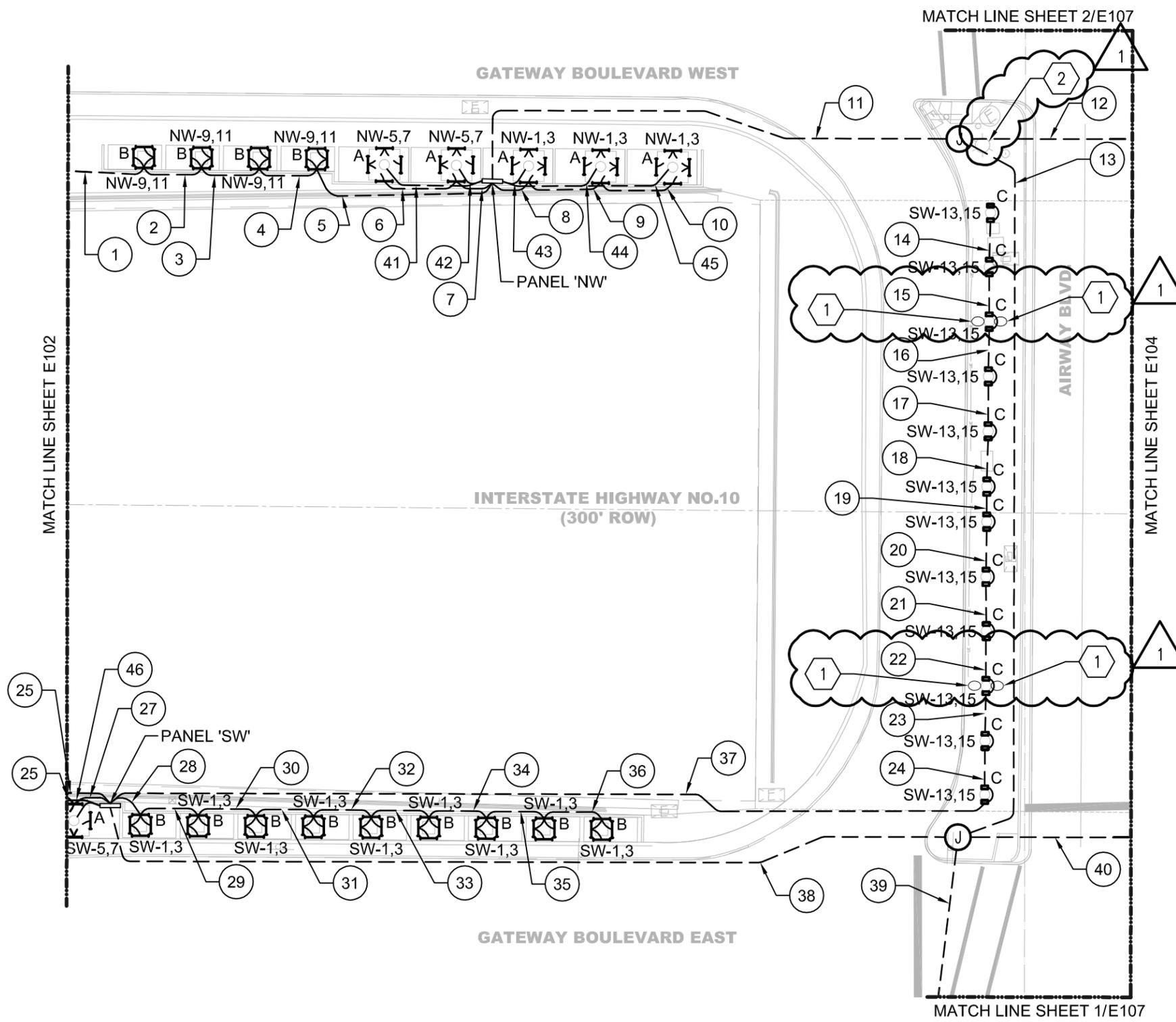


AIRWAY AESTHETICS  
LAYOUT PLAN

GA101B SHEET 2 OF 2

DSN:	DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
6	ELP	EL PASO	2121	03	153	89A

**1** TYPE F STONE RIPRAP, GROUTED  
NTS

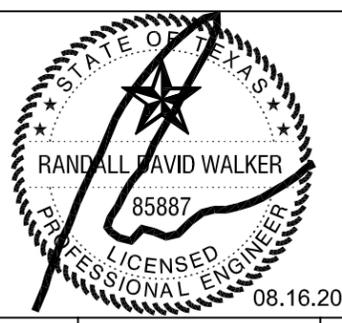


**GENERAL NOTES:**

- REFER TO SHEET E103A FOR CONDUIT & CONDUCTOR SCHEDULE AND ILLUMINATION QUANTITIES TOTALS FOR THIS SHEET.

**KEYED NOTES:**

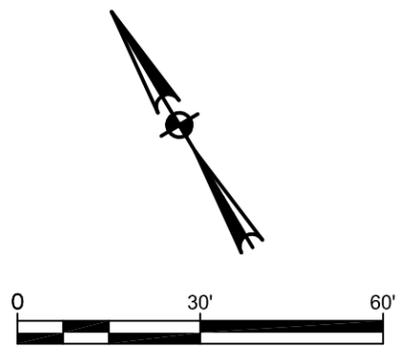
- 1 REMOVAL OF EXISTING COBRA HEAD FIXTURE AND RETROFITTING WITH LED FIXTURE IS SUBSIDIARY TO TYPE G FIXTURE. CONTRACTOR SHALL USE EXISTING CIRCUITS AND VERIFY LOCATION.
- 2 REMOVAL OF EXISTING COBRA HEAD FIXTURE AND RETROFITTING WITH LED FIXTURE IS SUBSIDIARY TO TYPE F FIXTURE. CONTRACTOR SHALL USE EXISTING CIRCUITS AND VERIFY LOCATION.



REV. NO.	DATE	DESCRIPTION	BY
1	8.15.2013	NEW LIGHT FIXTURES	RDW



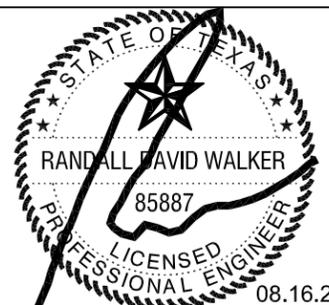
AIRWAY AESTHETICS  
ENLARGED ELECTRICAL  
PLAN



E103		SHEET 07 OF 22			
DSN: NR	FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.
CK: RW	6	TEXAS			HWY 1-10
DRN: NR	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CK: RW	ELP	EL PASO	2121	03	153
					SHEET NO.
					111

CONDUIT & CONDUCTOR SUMMARY												
RUN #	GROUND LENGTH					CONDUCTOR SIZE & LENGTH					CONDUIT SIZE & LENGTH	
	(FT)					(FT)					(FT)	
	#2/0 XHHW	#4 XHHW	#6 XHHW	#8 XHHW	#10 XHHW	#2/0 XHHW	#2 XHHW	#3 XHHW	#8 XHHW	#10 XHHW	2" PVC SCH 40	3/4" PVC SCH 40
1				20					2@20		20	
2				35					2@35		35	
3				35					2@35		35	
4				35					2@35		35	
5				80					2@80		80	
6				30					2@30		30	
7				20					2@20		20	
8				20					2@20		20	
9				30					2@30		30	
10				30					2@30		30	
11		140					2@140				140	
12	55					2@55					55	
13	190	190				2@190	2@190				2@190	
14				35					2@35		35	
15				35					2@35		35	
16				35					2@35		35	
17				35					2@35		35	
18				35					2@35		35	
19				35					2@35		35	
20				35					2@35		35	
21				35					2@35		35	
22				35					2@35		35	
23				35					2@35		35	
24				35					2@35		35	
25				10					2@10		10	
26				20					2@20		20	
27				20					2@20		20	
28				25					2@25		25	
29				35					2@35		35	
30				35					2@35		35	
31				35					2@35		35	
32				35					2@35		35	
33				35					2@35		35	
34				35					2@35		35	
35				35					2@35		35	
36				35					2@35		35	
37				240					2@240		240	
38			225					2@225			225	
39	50	2@50	50			2@50	4@50	2@50			4@50	
40		45					2@45				45	
41					55				2@55		55	
42					40				2@40		40	
43					40				2@40		40	
44					55				2@55		55	
45					75				2@75		75	
46					40				2@40		40	
TOTAL	295	475	275	1315	305	590	950	550	2630	610	2130	305

ILLUMINATION QUANTITIES SHEET TOTAL				
ITEM	BID CODE	DESCRIPTION	UNIT	EST QUANTITY
618	2018	CONDT (PVC) (SCHD 40) (2")	LF	2130
618	2066	CONDT (PVC) (SCHD 40) (3/4")	LF	305
620	2022	ELEC CONDR (NO. 2/0) XHHW	LF	885
620	2004	ELEC CONDR (NO. 2) XHHW	LF	950
620	2006	ELEC CONDR (NO. 3) XHHW	LF	550
620	2008	ELEC CONDR (NO. 4) XHHW	LF	475
620	2010	ELEC CONDR (NO. 6) XHHW	LF	275
620	2012	ELEC CONDR (NO. 8) XHHW	LF	3945
620	2014	ELEC CONDR (NO. 10) XHHW	LF	915
624	2008	GROUND BOX TY A (122311) W/ APRON	EA	2
		TYPE A LIGHT FIXTURE	EA	23
		TYPE B LIGHT FIXTURE	EA	52
		TYPE C LIGHT FIXTURE	EA	24
		TYPE F LIGHT FIXTURE	EA	1
		TYPE G LIGHT FIXTURE	EA	4



REV.NO.	DATE	DESCRIPTION	BY
1	8.15.2013	NEW LIGHT FIXTURES	RDW



JACOBS ENGINEERING GROUP INC, TX REGISTRATION #2966



AIRWAY AESTHETICS  
RUN CHART & QUANTITIES

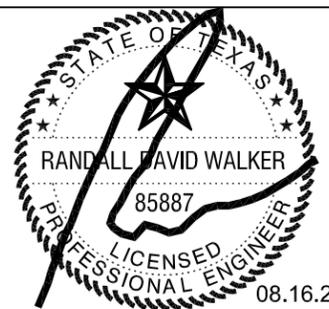
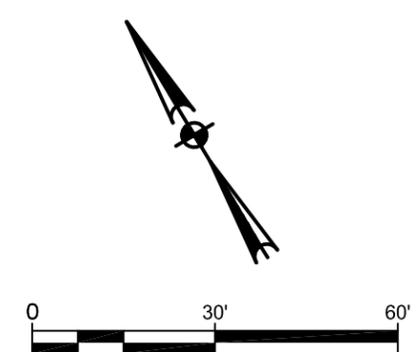
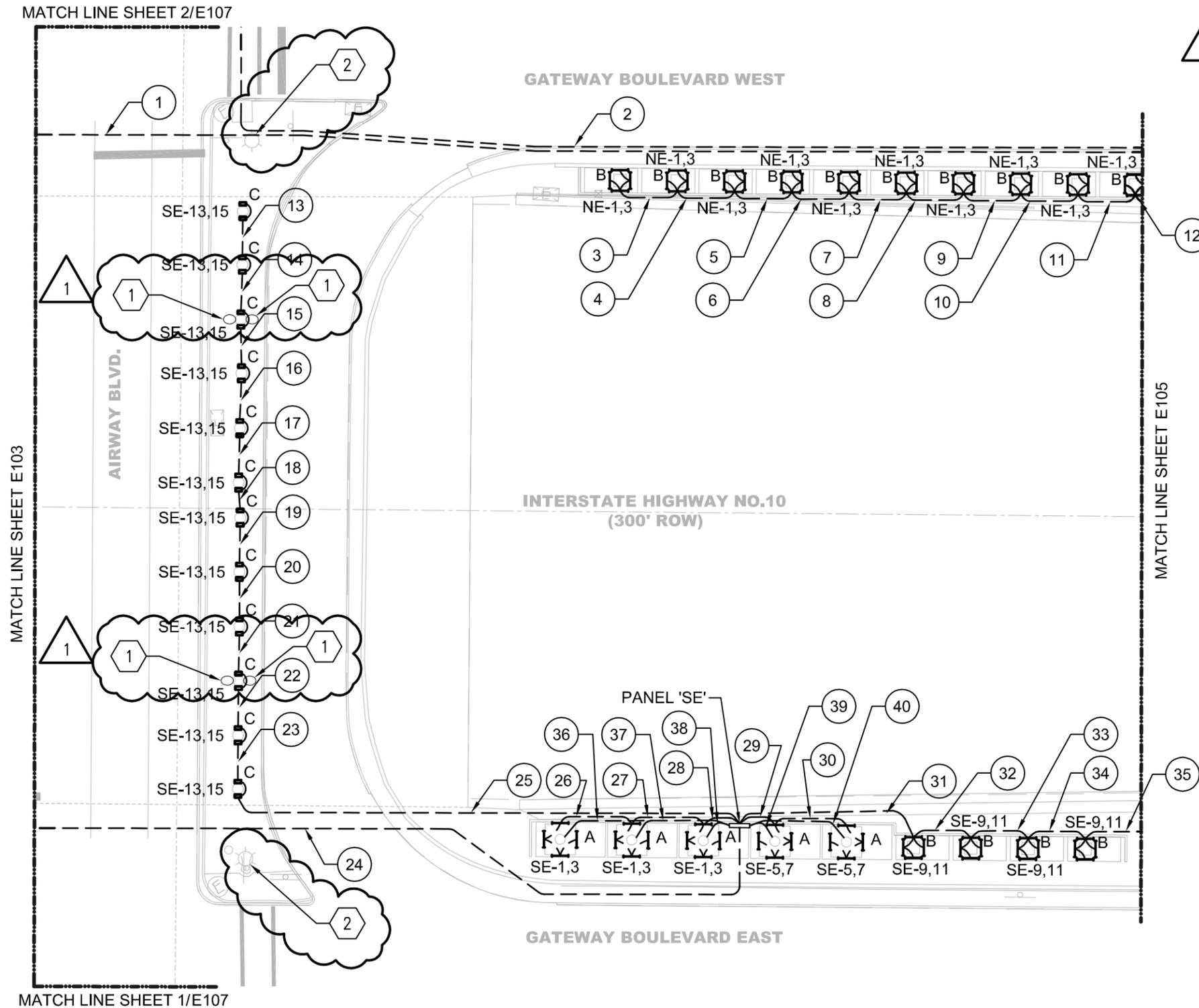
E103A		SHEET 08 OF 22					
DSN: NR	FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.		
CK: RW	6	TEXAS			HWY 1-10		
DRN: NR	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.	
CK: RW	ELP	EL PASO	2121	03	153	112	

**GENERAL NOTES:**

- REFER TO SHEET E104A FOR CONDUIT & CONDUCTOR SCHEDULE AND ILLUMINATION QUANTITIES TOTALS FOR THIS SHEET.

**KEYED NOTES:**

- 1 REMOVAL OF EXISTING COBRA HEAD FIXTURE AND RETROFITTING WITH LED FIXTURE IS SUBSIDIARY TO TYPE G FIXTURE. CONTRACTOR SHALL USE EXISTING CIRCUITS AND VERIFY LOCATION.
- 2 REMOVAL OF EXISTING COBRA HEAD FIXTURE AND RETROFITTING WITH LED FIXTURE IS SUBSIDIARY TO TYPE F FIXTURE. CONTRACTOR SHALL USE EXISTING CIRCUITS AND VERIFY LOCATION.



REV. NO.	DATE	DESCRIPTION	BY
1	8.15.2013	NEW LIGHT FIXTURES	RDW

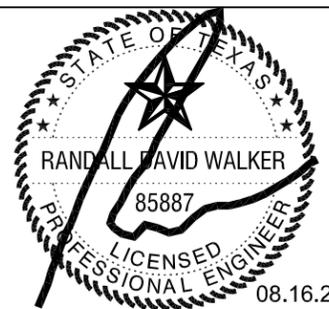


**AIRWAY AESTHETICS  
ENLARGED ELECTRICAL  
PLAN**

E104		SHEET 09 OF 22			
DSN: NR	FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.
CK: RW	6	TEXAS			HWY 1-10
DRN: NR	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CK: RW	ELP	EL PASO	2121	03	153
					SHEET NO. 113

CONDUIT & CONDUCTOR SUMMARY										
RUN # ○	GROUND LENGTH				CONDUCTOR SIZE & LENGTH				CONDUIT SIZE & LENGTH	
	(FT)				(FT)				(FT)	
	#2/0 XHHW	#4 XHHW	#8 XHHW	#10 XHHW	#2/0 XHHW	#2 XHHW	#8 XHHW	#10 XHHW	2" PVC SCH 40	3/4" PVC SCH 40
1	280				2@280				280	
2			245				2@245		245	
3			35				2@35		35	
4			35				2@35		35	
5			35				2@35		35	
6			35				2@35		35	
7			35				2@35		35	
8			35				2@35		35	
9			35				2@35		35	
10			35				2@35		35	
11			35				2@35		35	
12			25				2@25		25	
13			35				2@35		35	
14			35				2@35		35	
15			35				2@35		35	
16			35				2@35		35	
17			35				2@35		35	
18			30				2@30		30	
19			35				2@35		35	
20			35				2@35		35	
21			35				2@35		35	
22			35				2@35		35	
23			35				2@35		35	
24		200				2@200			200	
25			150				2@150		150	
26			30				2@30		30	
27			30				2@30		30	
28			20				2@20		20	
29			20				2@20		20	
30			30				2@30		30	
31			80				2@80		80	
32			35				2@35		35	
33			35				2@35		35	
34			35				2@35		35	
35			35				2@35		35	
36				75				2@75		75
37				55				2@55		55
38				40				2@40		40
39				40				2@40		4@40
40				55				2@55		55
TOTAL	280	200	1495	265	560	400	2990	530	1975	385

ILLUMINATION QUANTITIES SHEET TOTAL				
ITEM	BID CODE	DESCRIPTION	UNIT	EST QUANTITY
618	2018	CONDT (PVC) (SCHD 40) (2")	LF	1975
618	2066	CONDT (PVC) (SCHD 40) (3/4")	LF	385
620	2022	ELEC CONDR (NO. 2/0) XHHW	LF	840
620	2004	ELEC CONDR (NO. 2) XHHW	LF	400
620	2008	ELEC CONDR (NO. 4) XHHW	LF	200
620	2012	ELEC CONDR (NO. 8) XHHW	LF	4485
620	2014	ELEC CONDR (NO. 10) XHHW	LF	795
		TYPE A LIGHT FIXTURE	EA	20
		TYPE B LIGHT FIXTURE	EA	55
		TYPE C LIGHT FIXTURE	EA	24
		TYPE F LIGHT FIXTURE	EA	2
		TYPE G LIGHT FIXTURE	EA	4

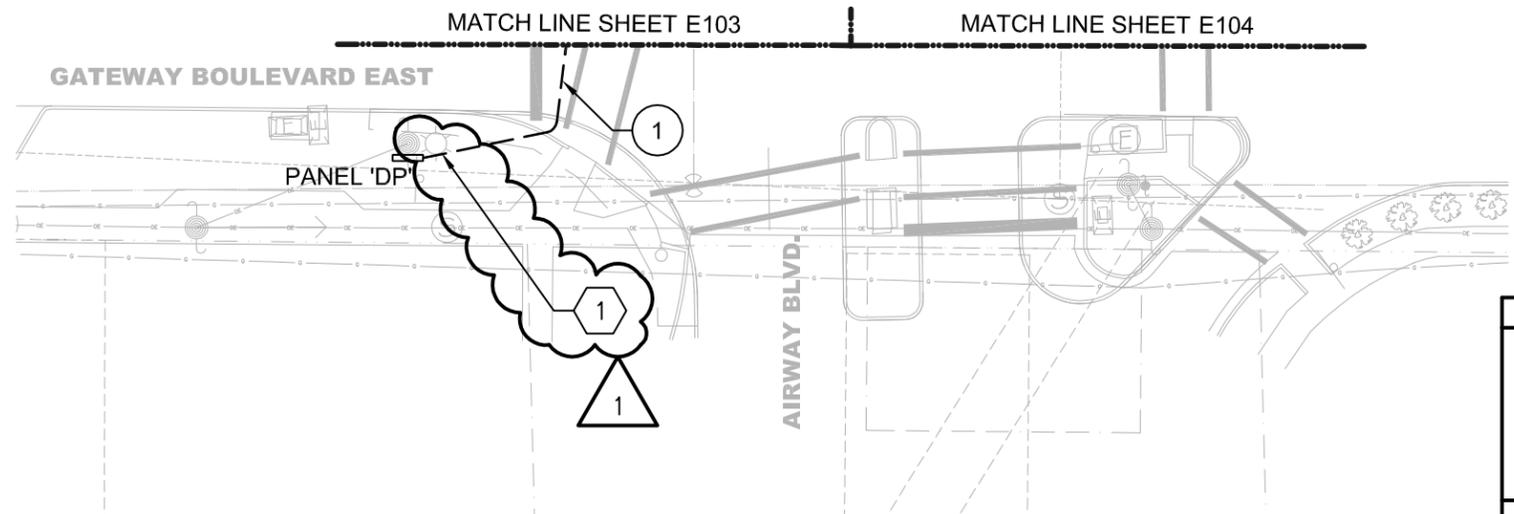


REV.NO.	DATE	DESCRIPTION	BY
1	8.15.2013	NEW LIGHT FIXTURES	RDW



AIRWAY AESTHETICS  
RUN CHART & QUANTITIES

E104A		SHEET 10 OF 22					
DSN: NR	FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.		
CK: RW	6	TEXAS			HWY 1-10		
DRN: NR	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.	
CK: RW	ELP	EL PASO	2121	03	153	114	

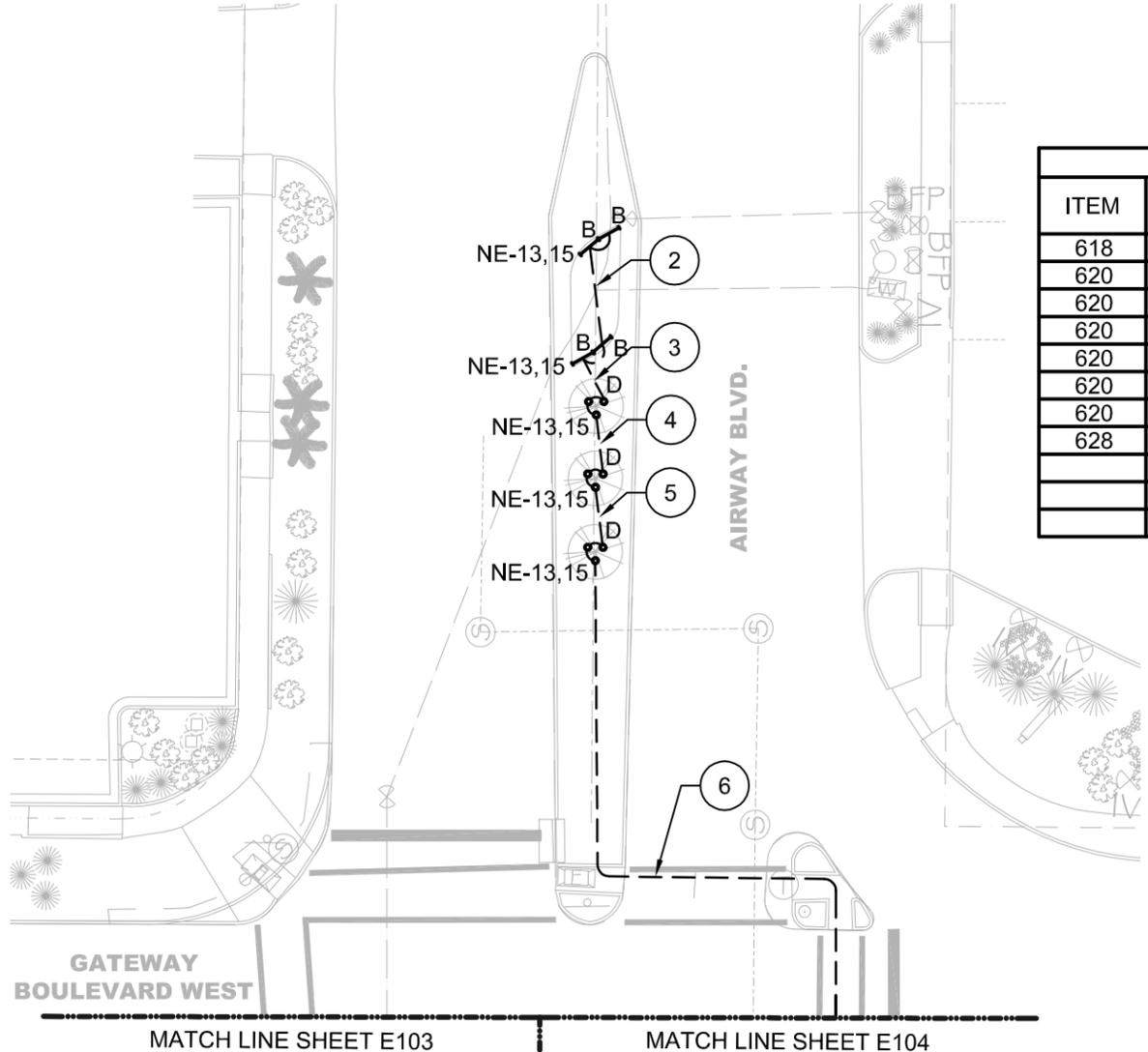


1 GATEWAY BOULEVARD EAST ELECTRICAL PLAN  
SCALE: 1" = 30'

**KEYED NOTES:**

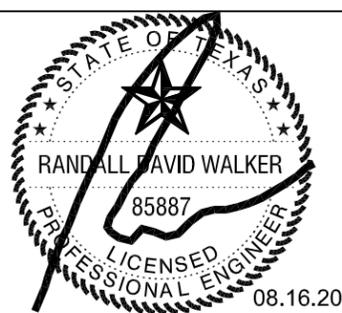
1 REMOVAL OF EXISTING COBRA HEAD FIXTURE AND RETROFITTING WITH LED FIXTURE IS SUBSIDIARY TO TYPE F FIXTURE. CONTRACTOR SHALL USE EXISTING CIRCUITS AND VERIFY LOCATION.

CONDUIT & CONDUCTOR SUMMARY									
RUN #	GROUND LENGTH				CONDUCTOR SIZE & LENGTH				CONDUIT SIZE & LENGTH
	(FT)				(FT)				(FT)
	#2/0 XHHW	#4 XHHW	#6 XHHW	#8 XHHW	#2/0 XHHW	#2 XHHW	#3 XHHW	#8 XHHW	2" PVC SCH 40
1	55	2@55	55		2@55	4@55	2@55		4@55
2				50				2@50	50
3				30				2@30	30
4				50				2@50	50
5				50				2@50	50
6				150				2@150	150
<b>TOTAL</b>	55	110	55	330	110	220	110	660	550



2 GATEWAY BOULEVARD WEST ELECTRICAL PLAN  
SCALE: 1" = 30'

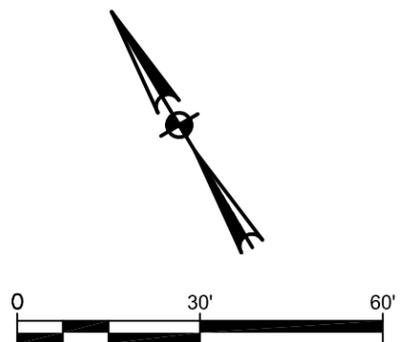
ILLUMINATION QUANTITIES SHEET TOTAL				
ITEM	BID CODE	DESCRIPTION	UNIT	EST QUANTITY
618	2018	CONDT (PVC) (SCHD 40) (2")	LF	470
620	2022	ELEC CONDR (NO. 2/0) XHHW	LF	165
620	2004	ELEC CONDR (NO. 2) XHHW	LF	220
620	2006	ELEC CONDR (NO. 3) XHHW	LF	110
620	2008	ELEC CONDR (NO. 4) XHHW	LF	110
620	2010	ELEC CONDR (NO. 6) XHHW	LF	55
620	2012	ELEC CONDR (NO. 8) XHHW	LF	750
628	2053	ELC SRV TY C (240/480) 200 (NS) SS (E) SP (U)	EA	1
		TYPE B LIGHT FIXTURE	EA	4
		TYPE D LIGHT FIXTURE	EA	9
		TYPE F LIGHT FIXTURE	EA	1



REV. NO.	DATE	DESCRIPTION	BY
1	8.15.2013	NEW LIGHT FIXTURES	RDW



AIRWAY AESTHETICS  
ENLARGED ELECTRICAL  
PLAN



E107		SHEET 14 OF 22					
DSN: NR	FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.		
CK: RW	6	TEXAS			HWY 1-10		
DRN: NR	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.	
CK: RW	ELP	EL PASO	2121	03	153	118	

## LIGHTING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION	MANUFACTURER & CATALOG No.	LAMPS		INPUT		MOUNTING	BID	NOTES
			QTY	TYPE	VOLTAGE	WATTS			
A	COLORREACH POWERCORE GEN 2 LED OR LUMENPULSE, LUMENBEAM, EXTERIOR FLOODLIGHT WITH 23 DEGREE SPREAD LENS WITH DMX CONTROLS. TURBINE LIGHTING.	COLORKINETICS COLORREACH POWERCORE GEN2 23 DEGREE SPREAD LENS LUMENPULSE, LUMENFACADE LOG-240-24-RGB-1FT-30X60-MTG OR APPROVED EQUAL	LED	LED 3812 LUMENS RGB	240	290	GROUND SURFACE	BASE	1,2
B	COLORGRAZE MX POWERCORE OR LUMENPULSE LUMENFACADE, 60 DEGREE BY 30 DEGREE ANGLE COLORGRAZE MX POWERCORE 4 FOOT WITH DMX CONTROLS ART WORK LIGHTING	COLORKINETICS 123-000079-19 LUMENPULSE, LUMENFACADE LOG-240-48-RGB-1FT-30X60-MTG OR APPROVED EQUAL	LED	LED 2064 LUMENS RGB	240	80	GROUND SURFACE	BASE	1,2
C	COLORGRAZE QLX 1 FOOT OR LUMENPULSE LUMENFACADE, 10 DEGREE BY 60 DEGREE BEAM ANGLE WITH DMX CONTROLS COLUMN LIGHTING	COLORKINETICS 123-000079-21 LUMENPULSE, LUMENFACADE LOG-240-12-RGB-1FT-30X60-MTG OR APPROVED EQUAL	LED	LED 408 LUMENS RGB	240	15	CEILING MOUNTED		1,2
D	LTV71 SERIES - BRONZE HOUSING ACCENT SPOT LIGHT WITH BLUE LED. TREE LIGHTING	KIM LTV71SP 18L3K UV 2250 HADCO I35 INGROUND LAMP OR APPROVED EQUAL	LED	BLUE LED	240	18	IN GROUND	BASE	2
F	LED COBRA STREET LIGHT WITH A DIE CAST ALUMINUM HOUSING AND A TYPE 3 DISTRIBUTION	LEOTEK GC2 100E MV NW 3 OR APPROVED EQUAL	LED	4300K	120/277	155	POLE	BASE	
G	LED WALL PACK WITH A ALUMINUM ALLOY CONTRUCTION AND A 5000K COLOR TEMPERATURE.	KENALL DLD1622 216L50K DV OR APPROVED EQUAL	LED	5000K	120/277	216	WALL	BASE	

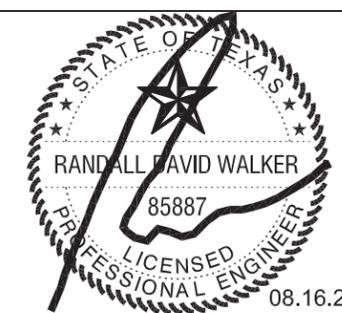
**GENERAL NOTES:**

A. CONTACT INFORMATION:

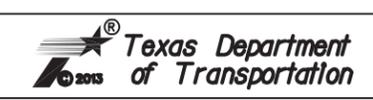
Johnny Summers Category Sales Manager Color Kinetics South Central Zone John.Summers@Phillips.com 512-592-1223 Cell 888-385-5742 Customer Service and Support	Dave Comer Hossley Lighting Associates, Inc. 1202 Dragon St., Ste. 100 Dallas, TX 75207 D: 214-413-7006 C: 214-354-1510 Dave@hlaighting.com
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**NOTES:**

- CONTRACTOR SHALL PROVIDE DMX CABLE FROM EACH CONTROLLER TO THE FIRST FIXTURE THEN PROVIDE FACTORY DMX CONTROL CABLE BETWEEN EACH OF THE OTHER FIXTURES IN RUN.
- REFER TO SHEET NUMBER 140A FOR MOCKUP SCHEDULES.



REV.NO.	DATE	DESCRIPTION	BY
1	8.15.2013	NEW LIGHT FIXTURES	RDW



AIRWAY AESTHETICS  
ELECTRICAL SCHEDULES

E701		SHEET 17 OF 22			
DSN: NR	FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.
CK: RW	6	TEXAS			HWY 1-10
DRN: NR	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CK: RW	ELP	EL PASO	2121	03	153
					SHEET NO.
					121

COLOR SUBMITTAL SCHEDULE:

COLORS: CONTRACTOR SHALL PROVIDE THREE (3) SAMPLES PER SPECIFIED COLOR ON 12"X12" MINIMUM SIZE SUBMITTAL ON SAME SUBSTRATE AS FINAL WORK: ALL COLORS ARE IDENTIFIED VIA THE RGB COLOR INDEX. ARTIST/ENGINEER RETAINS THE RIGHT TO CHANGE COLORS BASED ON MOCKUP PROVIDED.

ALL ITEMS TO BE PAINTED SHALL HAVE A MINIMUM OF 3 COATS OF PAINT AND SHALL HAVE AN ANTI GRAFFITI COAT APPLIED  
ALL METAL ART WORK, TURBINES, ART AROUND TURBINES, AND SMALL ORNAMENTAL ART SCULPTURES SHALL BE POWDER COATED.

CONCRETE (PAINTING):

R-163 G-144 B-124:

ALL CONCRETE EXCEPT SIDEWALKS, CURBS, BRIDGE UNDERSIDE, ARTWORK FOUNDATION, AND TURBINE/ORNAMENT FOUNDATION SLABS.

THIS INCLUDES: EXISTING MSE RETAINING WALLS, PROPOSED PLANTER RETAINING WALLS, BRIDGE COLUMNS, BRIDGE BARRIER WALLS (ALL SIDES), COLUMN BENT, CONCRETE TRAFFIC BARRIER (ALL SIDES), BRIDGE ABUTMENTS (ALL VISIBLE SIDES) AND BRIDGE FACES.

- PROVIDE A MOCK-UP FOR THE CEILING AND BEAM FOR APPROVAL BEFORE PAINTING THE ENTIRE CEILING AND BEAMS

R-145 G-67 B-52: ONLY BRIDGE UNDERSIDE, ARTWORK FOUNDATION AND TURBINE AND ORNAMENT FOUNDATION SLABS.

METAL WORK TO BE CLEANED OR PAINTED:

CLEAN SS UTILITY BOXES UNDER I-10 WITH A ROTARY POWER SANDER WITH A SERIES OF SURFACE CONDITIONING PADS AND FINAL BUFFED TO PROVIDE A POLISHED MIRROR FINISH. CONTRACTOR SHALL REMOVE ALL RUST SPOTS, SCRATCHES, AND BLEMISHES.

CONTRACTOR SHALL CLEAN ONE SIDE OF THE TRAFFIC BOX UNDER I-10 FOR APPROVAL PRIOR TO COMPLETING REMAINING ITEMS.

R-238 G-237 B-231: ( POWDER COATED -HIGH REFLECTIVE WHITE COLOR) ALL TURBINES, METAL ARMATURES ON TURBINES, SMALL ORNAMENTAL METAL ART SCULPTURES, ALL LIGHTING FIXTURES.  
R-238 G-287 B-231: ( PAINT - HIGH REFLECTIVE WHITE COLOR) ALL TRAFFIC LIGHT POLES, ROADWAY SIGNS POLES, DIRECTIONAL SIGN POLES WITHIN THE ROW AND WITHIN THE LIMITS OF THE WORK:  
ALL SCULPTURE SHELLS AND COLUMN WRAPS SHALL HAVE A MINIMUM OF THREE (3) COATS OF ANTI-GRAFFITI CLEAR COAT FINISH. FINISH SHALL BE A MATTE FINISH

CONDUIT: MATCH SUBSTRATE UPON WHICH IT IS ATTACHED

MOCKUPS

- ALL ART WORK, TURBINES, SMALL ORNAMENTAL ART PIECES, MEDIAN ART WORK, AND COLUMN WRAPS SHALL HAVE AN OFF SITE MOCKUP PRIOR TO PAINTING, IF MOCK UP IS ACCEPTED THE CONTRACTOR WILL BE ALLOWED TO USE THE MOCKUP AS ONE OF THE SITE ELEMENTS.
- CONTRACTOR SHALL PROVIDE 5 SETS OF SHOP DRAWINGS THAT PROVIDES/ILLUSTRATES AS INDICATED WELD TYPES, PIPE SIZES, STEEL TYPE AND THICKNESS, RADII, AND LENGTHS
- UPON APPROVAL OF THE MOCKUP, CONTRACTOR SHALL PAINT/POWDER COAT ELEMENTS AND SHALL PROVIDE A WORKING MOCK UP OF THE LIGHT FIXTURES TO ENSURE LIGHTING ACHIEVES DESIRED LIGHTING AFFECT. EACH APPLICATION OF LIGHTING WILL REQUIRE AN ON-SITE MOCK-UP FOR DETERMINATION OF HUE AND INTENSITY (COLOR ADJUSTMENT). LIGHTING ADJUSTMENTS WILL BE ON-SITE FOR ALL APPLICATIONS
- MOCK-UPS MUST BE APPROVED BEFORE LIGHTING MAY BE INSTALLED FOR ALL FIXTURES

PROVIDE MOCK-UPS FOR:

- (1) COLUMN WRAPS
- (2) TURBINES WITH STEEL BASES
- (3) SMALL SCULPTURES WITH STEEL BASES
- (4) MEDIAN ARTWORK

ARTIST AND ENGINEER TO APPROVE MOCK-UPS BEFORE FINAL INSTALLATION OF WORK. FIELD ADJUSTMENTS FOR ALL APPLICATIONS WILL BE REQUIRED

MEDIAN ARTWORK:

THERE ARE TWO DIFFERENT PATTERNS TO BE LASER CUT, THAT MUST BE TRUE TO THE DESIGN; NO WARPING WILL BE ALLOWED. THE FILES WILL BE ILLUSTRATOR FILES NOM. DIM. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR FIT WITH FOOTING AND FRAME.  
FRAME MUST BE CONCEALED BEHIND JOINTS/SEAMS, NOT VISIBLE FROM THE ARTWORK VIEWING SIDE.

COLUMN WRAPS:

WE WILL DELIVER NOM. DIM. CAD FILES TO BE LASER CUT. CONTRACTOR TO VERIFY FIELD DIMENSIONS FOR FIT. NO WARPING WILL BE ALLOWED. ALL ARTWORK PATTERNING MUST BE CLEAN AND SMOOTH TO THE TOUCH; NO BURRS.

(1) CUSTOM METAL FABRICATION SPECIALIST OR EQUAL SHALL DEMONSTRATE PROFICIENCY BY PROVIDING A PORTFOLIO COMPLETED WORK DEMONSTRATING COMPETENCY WITH DIGITAL DESIGN AND FABRICATION. THE CUSTOM METAL FABRICATION SPECIALIST MUST HAVE COMPLETED FIVE PROJECTS OF EQUAL COMPLEXITY AND SCOPE AS THIS PROJECT. FIVE PHOTOGRAPHIC IMAGES PER FIVE CONSTRUCTED PROJECTS (8" X 10") ARE MINIMALLY REQUIRED TO DEMONSTRATE PROJECT SCOPE AND QUALITY. A LIST OF CLIENTS AND EXPERIENCE WORKING WITH ARTISTS MUST BE DOCUMENTED AND DELIVERED WITHIN FOURTEEN (14) DAYS OF THE BID OPENING FOR CONSIDERATION.

A. APPROVED CUSTOM METAL FABRICATION SPECIALIST FOR ARTWORK:

1. CAID INDUSTRIES  
2275 EAST GANLEY ROAD  
TUCSON, AZ 85706  
T. 520.294.3126  
F. 520.294.8180
2. INDUSTRIAL STAINLESS STEEL INTERNATIONAL  
305 COUNTY LINE  
CHAPARRAL, NM 88081  
T. 575-824-3617  
F. 575-824-4092  
E-MAIL TDOWNING5@AOL.COM  
WWW.INDUSTRIAL-STAINLESS.COM
3. SCOTT KING  
KINGFAB  
2433 W PLACITA DESIERTO MORADO  
TUCSON, ARIZONA 85705  
T. 520-407-1251  
KINGFAB@KINGFAB.NET
4. STEVE JOHNSON  
STEVE JOHNSON COMPANIES  
1555 S TYLER ROAD  
WICHITA, KS 67209  
T. 316-722-2660  
F. 316-729-6356

SHOP DRAWINGS

- 1) 3D Shop Drawings are required for all custom designs: Turbine Armatures, Light Sculptures, Shells, Median Artwork, Column Wraps & Formliner Key.
- 2) Turbine Armature model must include a 3D model of the proposed Turbine and pole as part of the shop drawing.
- 3) Assembly of Turbine Armature Model and Light Sculpture Models must show the relationship to the footing and shell.
- 4) The entire assembly must be modeled in 3D for review.
- 5) During the fabrication and assembly of the custom designs for the Turbine Armature, Light Sculptures, Shells, Median Artwork and Column Wraps, the Artist will review the work during fabrication, as needed to assure aesthetic intention is maintained.



08.16.2013

REV.NO.	DATE	DESCRIPTION	BY
1	8.15.2013	RIPRAP	JB



**JACOBS**

JACOBS ENGINEERING GROUP INC, TX REGISTRATION #2966



AIRWAY AESTHETICS  
PAINTING AND MOCKUP  
REQUIREMENTS

WT103		SHEET 1 OF 1			
DSN:	FED. RD. DIST. NO.	STATE	PROJECT NO.	HIGHWAY NO.	
CK:	6	TEXAS		HWY 1-10	
DRN:	STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CK:	ELP	EL PASO	2121	03	153
					140A

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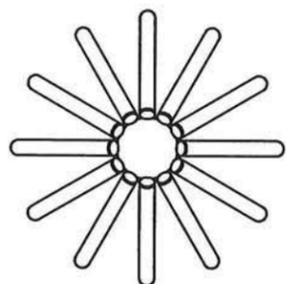
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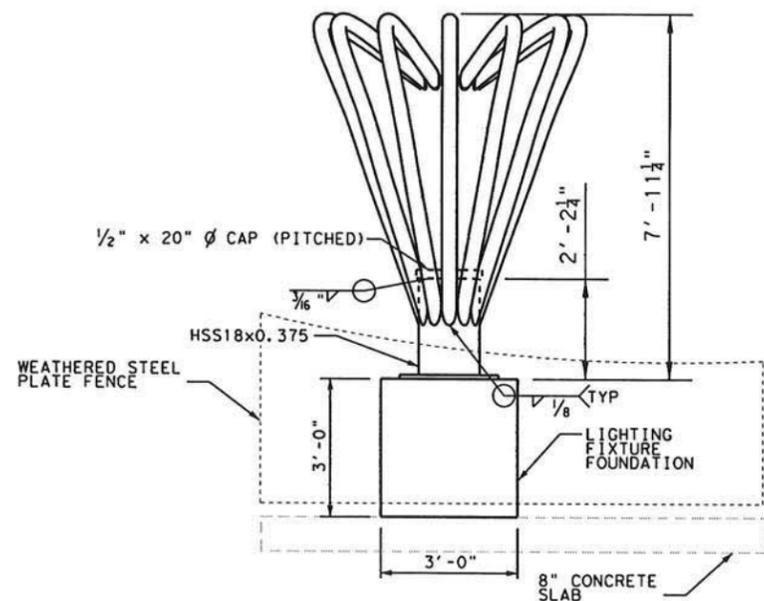


NOTES

- DESIGNED ACCORDING TO LATEST EDITION AASHTO LRFD SPECIFICATIONS.
- ALL CONSTRUCTION SHALL BE GOVERNED BY THE 2004 TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES.
- ALL DIMENSIONS SHOWN ARE MEASURED ALONG MEMBER CENTERLINES.
- ALL STRUCTURAL STEEL SHALL BE ASTM A500 GRADE B.
- ALL STEEL ELEMENTS TO BE POWDER COATED WITH TIGER DRYLAC 49/10410 HIGH-REFLECTIVE WHITE 90+. WEATHERPROOF PRIOR TO POWDER COAT APPLICATION.
- ALL STEEL ELEMENTS TO RECEIVE TIGER DRYLAC 44/00018 ANTI-GRAFFITI CLEAR GLOSSY FINISH.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR STRUCTURAL REVIEW.
- REFER TO TURBINE & ORNAMENTAL FOOTING, SLAB, & STEM WALL DETAILS SHEET FOR ANCHORING DETAILS.



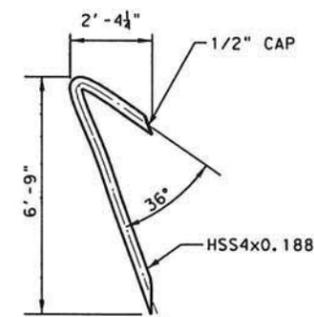
PLAN



ELEVATION

CENTERLINE CURVES ARE CENTER LINES FOR 4" PIPES. THE PIPES AT THE TOP ARE TRIMMED BY A 16" CIRCLE AND SLICED BACK AT A 20° ANGLE TO THE TOP. PIPES TRIMMED AS SHOWN. THE PIPES AT THE BOTTOM ARE TRIMMED BY THE 16" NECK.

END OF CAPS ARE 1/2" EXTRUSIONS FROM THE ENDS OF THE PIPES IN STAINLESS STEEL WITH A NUMBER 6 SATIN FINISH.



ORNAMENT ARM



*R. Prieto*  
2/13/13

REV. NO.	DATE	DESCRIPTION	BY
 <b>CAMINO REAL</b> REGIONAL MOBILITY AUTHORITY			
 <b>AIA ENGINEERS, LTD.</b> CONSULTANTS 800 NORTH MESA, SUITE 150, EL PASO, TX 79902 PHONE: (915) 313-3680 TBPE #2801			
 <b>Texas Department of Transportation</b>			
<b>AIRWAY AESTHETICS</b> <b>ORNAMENTAL 2 SCULPTURE FIXTURE DETAILS</b>			
DSH:	FED. NO. DIV. NO.	STATE	PROJECT NO.
CK:	6	TEXAS	1-10
DRN:	STATE DISTRICT	COUNTY	CONTROL NO. SECTION NO. JOB NO. SHEET NO.
CK:	ELP	EL PASO	2121 03 153 135A