



ADDENDUM NO. 2

PROJECT TITLE: Rehabilitate Taxiway B & B4

DATE: July 29, 2016

This addendum shall be included in, and be considered a part of the plans and specification for the above named project.

Addendum No. 2 is issued to notify you of the revisions and/or corrections to the following items that were posted on the City of Coolidge website (coolidgeaz.com/bidpackage).

Begin Addendum No. 2

Prospective bidders and interested parties are hereby directed to make the following changes to the plans and specifications for the above referenced project. This addendum shall be affixed to the contract documents and the signature of the receiving party shall be placed on page ‘B – 1’ of the specifications.

- I. Drawings: **Remove** the following plan sheets and **Replace** with the attached sheets:

<u>Sheet Number</u>	<u>Title Description</u>
C1.3	PROJECT QUANTITIES
C3.1	DEMOLITION PLAN – BASE BID
C3.2	DEMOLITION PLAN – BASE BID
C7.1	GRADING AND DRAINAGE – BASE BID
C7.2	GRADING AND DRAINAGE – BASE BID
E1.1	BASE BID ELECTRICAL LAYOUT
C7.3	GRADING AND DRAINAGE – ALTERNATE 1
C7.5	GRADING AND DRAINAGE – ALTERNATE 2
C7.6	GRADING AND DRAINAGE – ALTERNATE 2

- II. DIVISION I – BIDDING REQUIREMENTS AND AGREEMENT DOCUMENTS: Remove pages B-3 through B-8 of the Bid Proposal and replace with pages B-3 through B-8 (attached).
- III. DIVISION I – BIDDING REQUIREMENTS AND AGREEMENT DOCUMENTS: Insert page B-28 “**Assurance of Disadvantaged Business Enterprise Participation**” (attached) after page B-27.
- IV. DIVISION I – BIDDING REQUIREMENTS AND AGREEMENT DOCUMENTS: Remove DBE-1 through DBE-4 (**Attachments A and B**) and replace with attached pages DBE-1 through DBE-8 (**Attachments A, B, and C**).



- V. DIVISION II – GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT: On Page GC-39, paragraph 13.9.4.1.4 Bid Proposal Statement, delete the sentence: “*All bidders must complete the following written statement that appears on the bid proposal: “This will certify that, of the total amount of the base bid, \$_____ will be accomplished by duly certified DBE firms, which amount is _____ percent of the total amount of the bid submitted”.*” and replace with:
“*All bidders must complete the ASSURANCE OF DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION form on page B-28 of the Bid Proposal.*”
- VI. General Provisions: Remove “**ITEM M-002 ENGINEER'S FIELD OFFICE AND CURING FACILITIES**” in its’ entirety and replace with attached “**ITEM M-002 ENGINEER'S FIELD OFFICE AND CURING FACILITIES**”.
- VII. Special Provisions: Remove “**Section 120 Airfield Safety and Security**” in its’ entirety and replace with attached “**Section 120 Airfield Safety and Security**”.
- VIII. Special Provisions: Insert attached “**ITEM D-100 DRYWELLS**” after Page U-200-2.
- IX. Civil Technical Specifications: Remove page **P-304-2** from “ITEM P-304 CEMENT-TREATED BASE COURSE” and replace with attached page **P-304-2**.
- X. Questions:

The following questions were received on or before the deadline of July 27, 2016.

Q: Will an electronic version of the Bid Schedule be made available?

A: An electronic version of the Bid Schedule will be made available for download from the City of Coolidge website at www.coolidgeaz.com/bidpackage and will be sent to those parties on the plan holders list with this Addendum.

Q: Is the 7.41% DBE goal a requirement or a target?

A: The DBE goal is a requirement for this project. If a bidder unable to meet the contract goals for DBE participation, the General Conditions outline the process for petitioning for relief from DBE requirements.

Q: Sheet E1.1 BASE BID ELECTRICAL LAYOUT, Construction Note 3 refers to Sheet E3.6. Where is this sheet?

A: Construction Note 3 has been revised to say “PROVIDE AND INSTALL NEW L-876B BASECAN TO INTERCEPT THE RUNWAY HOMERUN CIRCUIT. SEE E3.2 FOR DETAIL.”



Q: Is the existing airfield electrical circuit that is to be removed direct-buried or inside conduit.

A: The existing circuit has not been potholed, but it is believed to be in conduit.

Q: Reference Page GC-36 of the Specifications and Contract Documents, there is a DBE goal set at 7.14% for the project. On Page GC-39 it indicates that the statement in paragraph 13.9.4.1.4 "appears on the bid proposal". We do not find where this is included on the bid proposal forms.

A: Please see the revision to that page in Item V of this Addendum above.

Q: If the statement in paragraph 13.9.4.1.4 is to be included what amount is to be inserted in the "amount of base bid, \$_____", as there are Base Bids A and B?

A: Please see the revision to that page in Item V of this Addendum above.

Q: Reference Page GP-72 of the Specifications and Contract Documents, referencing airside traffic control. This entire paragraph (which refers to red solar LED lights, escorts, security badges-training, gate guards) appears to be errantly included

A: Please see revised "**Section 120 Airfield Safety and Security**" (attached). That paragraph has been removed.

Q: Reference Page M-002-1 of the Specifications and Contract Documents, the second to last paragraph states that the Field offices provided by the Contractor must be new. Is it your intention to have a field office on site for a three month project? If so does it have to be new?

A: Please see revised "**ITEM M-002 ENGINEER'S FIELD OFFICE AND CURING FACILITIES**" (attached). A field office will be required but it does not have to be new.

Q: Reference Page M-002-3 of the Specifications and Contract Documents, paragraph 002-2.2 Concrete Curing and Testing Facility, is it your intention to have a curing facility on site?

A: Please see revised "**ITEM M-002 ENGINEER'S FIELD OFFICE AND CURING FACILITIES**" (attached). A curing facility will not be required for this project.

Q: Reference Page P-155-3 of the Specifications and Contract Documents, paragraph b. Final Mixing, will final mixing of the Lime-Treated Subgrade be required on this project?

A: Final mixing will be required per paragraph P-155-6.3-b.

Q: On page I-9 one of the requirements list, item j. Assurance Of Disadvantage Business Enterprise DBE (Participation) – where can I find this form(s)?

A: Please see page B-28 "ASSURANCE OF DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION" (attached) that is included in this Addendum.



Q: On page I-9 one of the requirements list, item n. mentions references both attachments A and B for both Base Bid & Add Alts – Does Base Bid and Add Alts each need to have their own attachments A & B?

A: Please see revised pages DBE-1 through DBE-8 (attached). Each bid schedule has its' own form for Attachment B. Attachments A and C are to be filled out for each DBE firm as needed.

Q: On page I-9 one of the requirements list there is a reference to an attachment C but I don't see one in the specs.

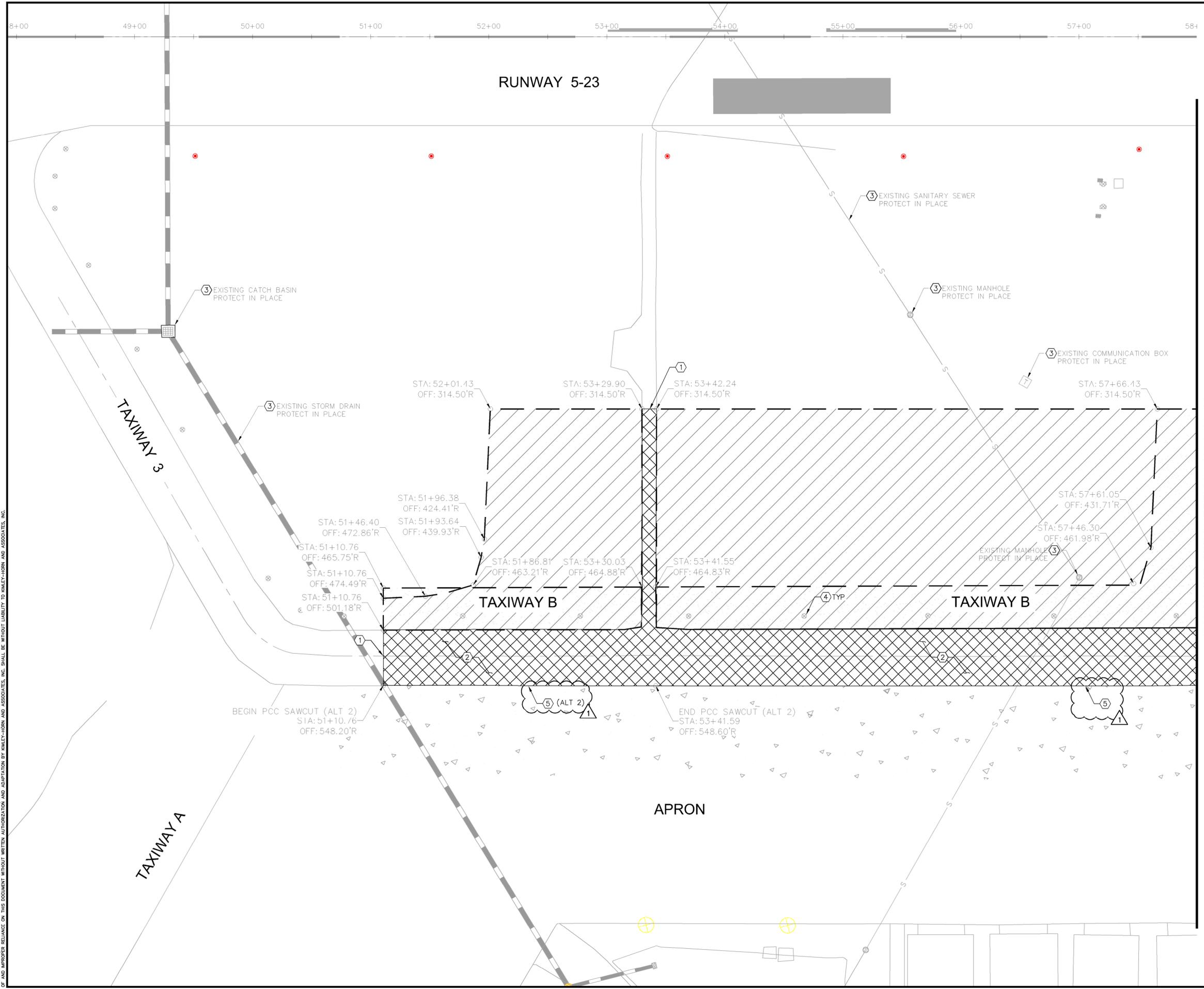
A: Please see revised paged DBE-1 through DBE-8 (attached). Attachment C has been added.

End Addendum No. 2



Exp. Date 12/31/18

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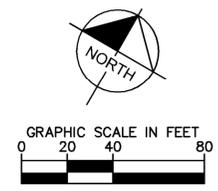
MATCHLINE: SEE SHEET C3.2 (STA: 58+00)

LEGEND

	FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
	BASE BID CLEARING AND GUB
	ALT 1 CLEARING AND GRUB
	ALT 2 CLEARING AND GRUB
	GRADING LIMITS

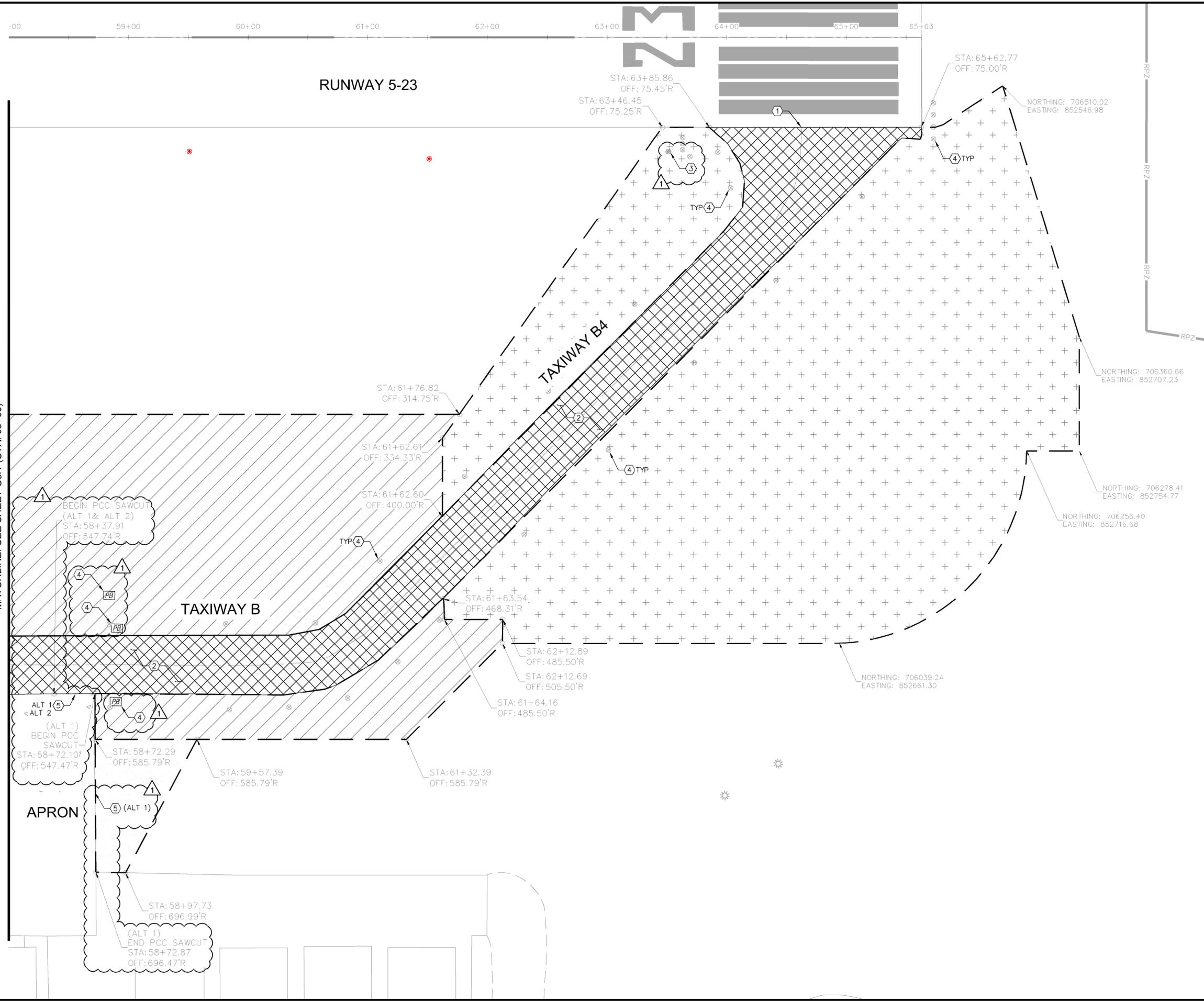
- GENERAL NOTES**
- EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
 - REFER TO SHEET C1.4 FOR HORIZONTAL AND VERTICAL CONTROL.
 - REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
 - DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN.
 - STATIONING IS BASED ON TAXIWAY G CENTERLINE STATIONING.

- CONSTRUCTION NOTES**
- SAWCUT EXISTING AC PAVEMENT
 - FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
 - PROTECT IN PLACE
 - REFER TO ELECTRICAL SHEETS
 - SAWCUT EXISTING PCC PAVEMENT



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 CITY OF COOLIDGE GROWTH MANAGEMENT 151 W PINKLEY AVE COOLIDGE, AZ 85228	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 DEMOLITION PLAN BASE BID </td> <td style="width: 50%; text-align: center;"> PROJECT NO. 191593007 DRAWING NAME 191593007DM.dwg C3.1 SHEET NO. 8 OF 45 </td> </tr> </table>	COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 DEMOLITION PLAN BASE BID	PROJECT NO. 191593007 DRAWING NAME 191593007DM.dwg C3.1 SHEET NO. 8 OF 45						
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MATCHLINE: SEE SHEET C3.1 (STA: 58+00)

LEGEND

	FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
	BASE BID CLEARING AND GUB
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NO.	REVISION	DATE
1	ADDENDUM 2	7/29/16

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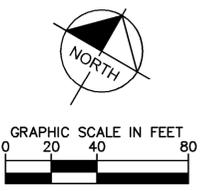
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 CITY OF COOLIDGE
 GROWTH MANAGEMENT
 131 W PINKLEY AVE
 COOLIDGE, AZ 85228



COOLIDGE MUNICIPAL AIRPORT
 REHABILITATE TAXIWAY B & B4
 DEMOLITION PLAN
 BASE BID

PROJECT NO.	191593007
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SHEET NO.	9 OF 45



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(A#)	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
A1	706337.78	852317.94	1574.64
A2	706332.76	852317.48	1574.50
A3	706321.84	852316.47	1574.00
A4	706397.39	852421.07	1575.00
A5	706409.49	852441.99	1575.55
A6	706417.31	852455.52	1575.61
A7	706388.74	852426.07	1574.50
A8	706397.08	852440.51	1574.75
A9	706343.69	852432.80	1573.91
A10	706367.23	852472.03	1574.10
A11	706373.18	852480.08	1574.73
A12	706382.80	852491.73	1575.05
A13	706437.36	852490.22	1575.80
A14	706446.12	852505.37	1575.89
A15	706453.63	852518.36	1575.70
A16	706510.02	852546.98	1574.51
A17	706438.59	852588.27	1572.96
A18	706294.36	852313.93	1573.50
A19	706310.39	852520.33	1574.35
A20	706305.38	852511.67	1573.85
A21	706317.90	852533.33	1574.78
A22	706206.42	852305.80	1573.00
A23	706203.59	852395.51	1573.00
A24	706280.26	852528.16	1574.00
A25	706244.16	852554.65	1574.61
A26	706239.16	852545.99	1573.98
A27	706249.46	852568.80	1574.92
A28	706333.64	852660.48	1572.00
A29	706342.15	852675.20	1572.00
A30	706350.66	852689.92	1572.00
A31	706360.66	852707.23	1575.23
A32	706332.18	852665.94	1571.00
A33	706345.19	852688.45	1570.91
A34	706274.17	852699.47	1571.00
A35	706287.18	852721.98	1571.00
A36	706268.71	852698.01	1572.00
A37	706263.70	852689.35	1573.12
A38	706258.83	852707.57	1574.54
A39	706256.40	852716.68	1575.26
A40	706277.21	852712.73	1572.00
A41	706272.68	852744.85	1575.45

(A#)	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
A42	706285.72	852727.45	1572.00
A43	706290.94	852747.53	1575.50
A44	706242.19	852652.12	1574.41
A45	706237.18	852643.46	1575.03
A46	706229.68	852630.48	1575.33
A47	706220.92	852615.33	1575.59
A48	706200.86	852580.63	1574.99
A49	706180.76	852560.20	1574.05
A50	706177.94	852570.77	1574.55
A51	706173.52	852587.28	1574.99
A52	706162.40	852628.85	1575.60
A53	706153.95	852660.45	1574.98
A54	706140.26	852711.65	1573.75
A55	706136.69	852732.28	1575.77
A56	706156.72	852571.27	1574.99
A57	706120.82	852592.02	1575.61
A58	706092.68	852608.28	1574.92
A59	706099.79	852637.37	1574.42
A60	706064.88	852662.46	1573.25
A61	706049.35	852675.75	1575.90
A62	706028.48	852643.08	1575.50
A63	705999.59	852593.10	1575.00
A64	706137.29	852518.74	1573.46
A65	706128.60	852523.74	1574.66
A66	706116.94	852533.36	1575.09
A67	706118.58	852476.56	1574.00
A68	706038.48	852364.63	1573.82
A69	706029.82	852369.63	1574.44
A70	706017.01	852377.44	1574.74
A71	705922.26	852459.30	1574.50
A72	705915.63	852407.88	1572.46
A73	705898.22	852417.71	1574.44
A74	706021.36	852288.69	1573.00
A75	706005.42	852297.90	1573.50
A76	705992.63	852305.29	1574.00
A77	705979.65	852312.80	1574.50
A78	705964.50	852321.56	1574.82
A79	705949.34	852330.31	1259.50
A80	705936.36	852337.82	1574.25
A81	705927.68	852342.83	1573.63
A82	705891.25	852365.69	1572.34

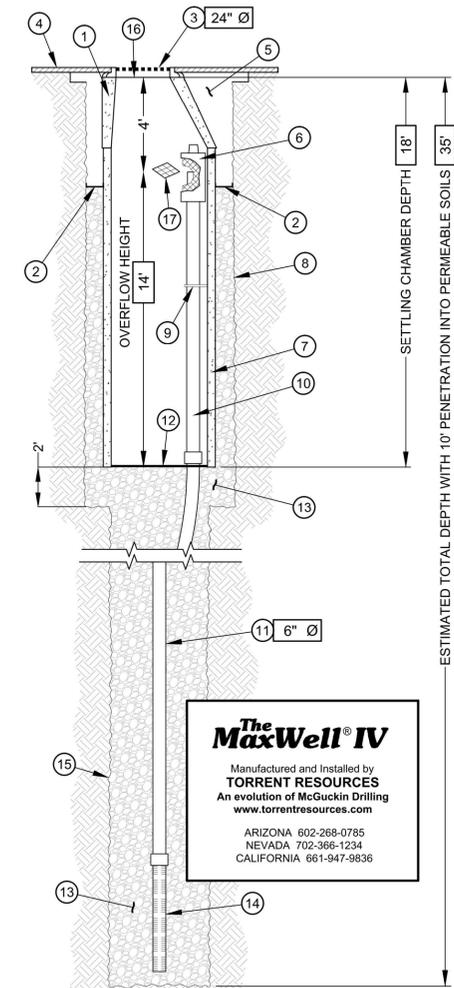
Coolidge Airport Rehab Taxiway B & B4 - Coolidge, AZ

The MaxWell® IV Drainage System Detail And Specifications

NOTES

- MANHOLE CONE** - MODIFIED FLAT BOTTOM.
- MOISTURE MEMBRANE** - 6 MIL. PLASTIC. APPLIES ONLY WHEN NATIVE MATERIAL IS USED FOR BACKFILL. PLACE MEMBRANE SECURELY AGAINST ECCENTRIC CONE AND HOLE SIDEWALL.
- BOLTED RING & GRATE** - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORDING "STORM WATER ONLY" IN RAISED LETTERS. **BOLTED IN 2 LOCATIONS** AND SECURED TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
- GRADED BASIN OR PAVING** (BY OTHERS).
- STABILIZED BACKFILL** - 1 SACK SLURRY.
- PUREFLO® DEBRIS SHIELD** - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. **FUSION BONDED EPOXY COATED.**
- PRE-CAST LINER** - 4000 PSI CONCRETE 48" ID. X 54" OD. **CENTER IN HOLE** AND ALIGN SECTIONS TO **MAXIMIZE BEARING SURFACE.**
- MIN. 6" Ø DRILLED SHAFT.**
- SUPPORT BRACKET** - FORMED 12 GA. STEEL. **FUSION BONDED EPOXY COATED.**
- OVERFLOW PIPE** - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
- DRAINAGE PIPE** - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
- BASE SEAL** - GEOTEXTILE OR CONCRETE SLURRY.
- ROCK** - WASHED, SIZED BETWEEN 3/8" AND 1-1/2" TO **BEST COMPLEMENT SOIL CONDITIONS.**
- FLOFAST® DRAINAGE SCREEN** - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 120" OVERALL LENGTH WITH TRI-B COUPLER.
- MIN. 4" Ø SHAFT** - DRILLED TO **MAINTAIN PERMEABILITY** OF DRAINAGE SOILS.
- FABRIC SEAL** - U.V. RESISTANT GEOTEXTILE - **TO BE REMOVED BY CUSTOMER** AT PROJECT COMPLETION.
- ABSORBENT** - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.

NOTE:
 INSTALLING ANY DRYWELL OTHER THAN A MAXWELL REQUIRES A SUBMITTAL FOR THE PROJECT ENGINEER'S APPROVAL



AZ Lic. ROC070465 A, ROC047067 B-4, ADMR 363
 CA Lic. 528080, C-42, HA2
 NV Lic. 9035300 A - NM Lic. 90504 GF04
 U.S. Patent No. 4,923,330 - TM Trademark 1974, 1990, 2004

1 DRYWELL DETAIL
 C7.2 N.T.S.



NO.	REVISION	DATE
1	ADDENDUM 2	7/29/16

Kimley-Horn
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 7740 North 16th Street, Suite 300
 Phoenix, Arizona 85020 (602) 944-5500



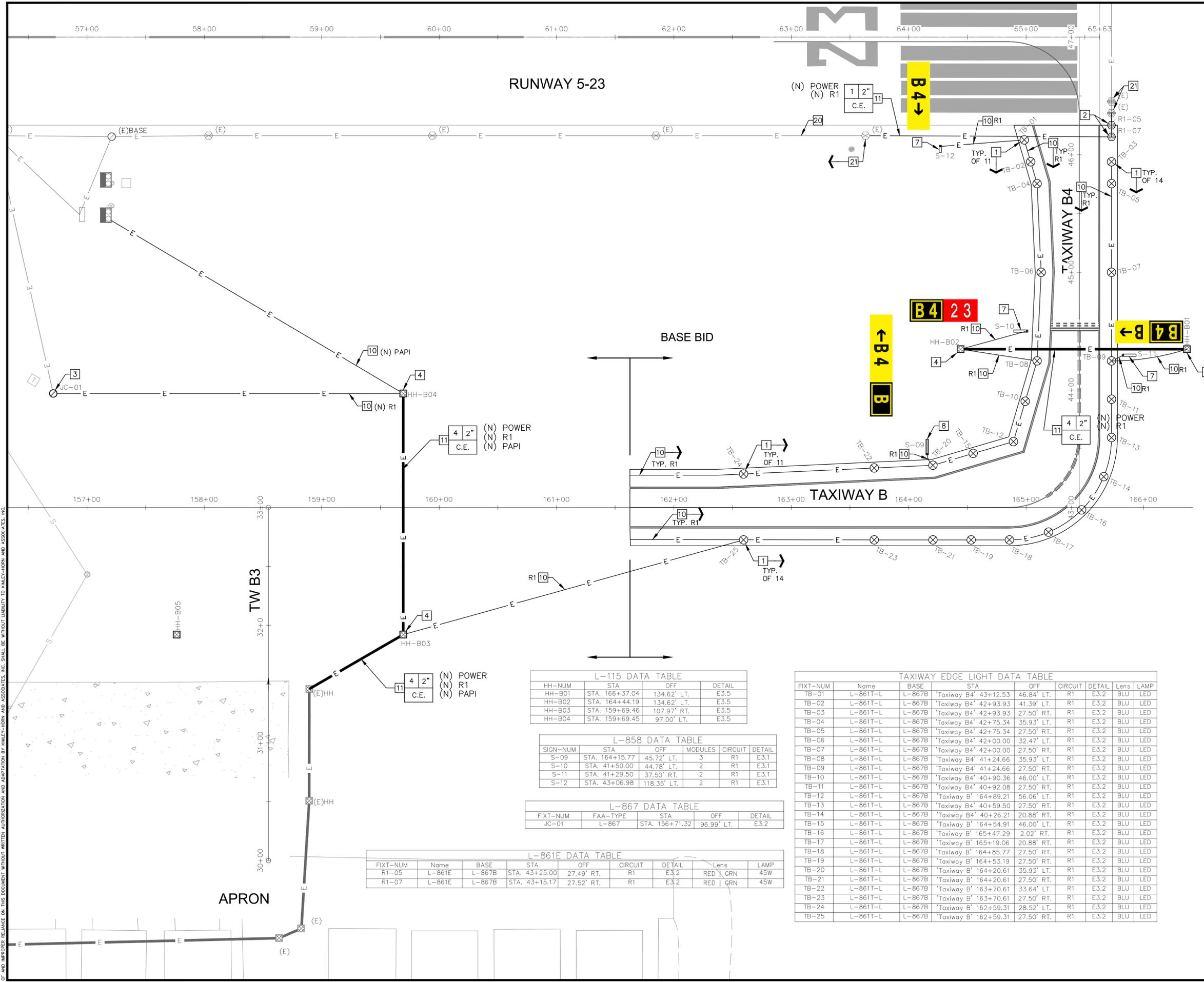
SCALE (H):
 SCALE (V):
 DESIGNED BY: BLG
 DRAWN BY: BLR
 CHECKED BY: BLG
 DATE: 07/29/16

COOLIDGE MUNICIPAL AIRPORT
 CITY OF COOLIDGE
 GROWTH MANAGEMENT
 131 W PINKLEY AVE
 COOLIDGE, AZ 85228



COOLIDGE MUNICIPAL AIRPORT
 REHABILITATE TAXIWAY B & B4
 GRADING AND DRAINAGE
 BASE BID

PROJECT NO.
 191593007
 DRAWING NAME
 191593007GD.dwg
 C7.2
 SHEET NO. 14 OF 45



CONSTRUCTION NOTES

- 1 PROVIDE AND INSTALL NEW L-861T LED MEDIUM INTENSITY TAXIWAY EDGE LIGHT ON NEW L-867B BASECAN WITH NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.2 FOR DETAIL.
- 2 SALVAGE AND REINSTALL L-861E MEDIUM INTENSITY RUNWAY END LIGHT ON NEW L-867B BASECAN WITH NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.2 FOR DETAIL.
- 3 PROVIDE AND INSTALL NEW L-867B BASECAN TO INTERCEPT THE RUNWAY HOMERUN CIRCUIT. SEE E3.2 FOR DETAIL.
- 4 PROVIDE AND INSTALL NEW CONCRETE HANDHOLE AND CONNECT TO NEW AIRFIELD DUCTBANK. SEE E3.5 FOR DETAIL.
- 7 PROVIDE AND INSTALL NEW SIZE 1, 2-MODULE LED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH NEW L-867B BASECAN AND NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.1 FOR DETAIL.
- 8 PROVIDE AND INSTALL NEW SIZE 1, 3-MODULE LED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH NEW L-867B BASECAN AND NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.1 FOR DETAIL.
- 10 INSTALL NEW DIRECT BURIAL CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
- 11 INSTALL NEW CONCRETE ENCASED CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
- 20 PROTECT EXISTING CONDUIT OR DUCT IN PLACE AT LIMITS OF NEW CONSTRUCTION. REPLACE CABLE BACK TO NEAREST EXISTING HANDHOLE OR FIXTURE BASE.
- 21 PROTECT EXISTING FIXTURE AND BASE IN PLACE.

GENERAL NOTES

1. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW ELEVATED RETROREFLECTIVE MARKERS AT L-861T LOCATIONS AS PER THE DATA TABLES.
2. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW UNLIGHTED GUIDANCE SIGNS AT L-858 LOCATIONS AS PER THE DATA TABLES.

L-115 DATA TABLE

HH-NUM	STA	OFF	DETAIL
HH-B01	STA. 166+37.04	134.62' LT.	E3.5
HH-B02	STA. 164+44.19	134.62' LT.	E3.5
HH-B03	STA. 159+69.46	107.97' RT.	E3.5
HH-B04	STA. 159+69.45	97.00' LT.	E3.5

L-858 DATA TABLE

SIGN-NUM	STA	OFF	MODULES	CIRCUIT	DETAIL
S-09	STA. 164+15.77	45.72' LT.	3	R1	E3.1
S-10	STA. 41+50.00	44.78' LT.	2	R1	E3.1
S-11	STA. 41+29.50	37.50' RT.	2	R1	E3.1
S-12	STA. 43+06.98	118.35' LT.	2	R1	E3.1

L-867 DATA TABLE

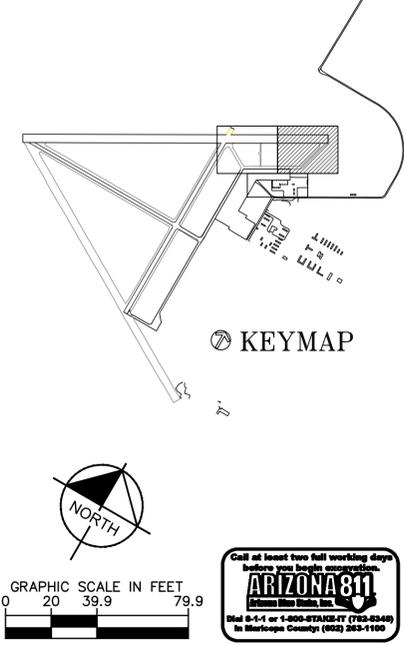
FIXT-NUM	FAA-TYPE	STA	OFF	DETAIL
JC-01	L-867	STA. 156+71.32	96.99' LT.	E3.2

L-861E DATA TABLE

FIXT-NUM	Name	BASE	STA	OFF	CIRCUIT	DETAIL	Lens	LAMP
R1-05	L-861E	L-867B	STA. 43+25.00	27.49' RT.	R1	E3.2	RED GRN	45W
R1-07	L-861E	L-867B	STA. 43+15.17	27.52' RT.	R1	E3.2	RED GRN	45W

TAXIWAY EDGE LIGHT DATA TABLE

FIXT-NUM	Name	BASE	STA	OFF	CIRCUIT	DETAIL	Lens	LAMP
TB-01	L-861T-L	L-867B	'Taxiway B4' 43+12.53	46.84' LT.	R1	E3.2	BLU	LED
TB-02	L-861T-L	L-867B	'Taxiway B4' 42+93.93	41.39' LT.	R1	E3.2	BLU	LED
TB-03	L-861T-L	L-867B	'Taxiway B4' 42+93.93	27.50' RT.	R1	E3.2	BLU	LED
TB-04	L-861T-L	L-867B	'Taxiway B4' 42+75.34	35.93' LT.	R1	E3.2	BLU	LED
TB-05	L-861T-L	L-867B	'Taxiway B4' 42+75.34	27.50' RT.	R1	E3.2	BLU	LED
TB-06	L-861T-L	L-867B	'Taxiway B4' 42+00.00	32.47' LT.	R1	E3.2	BLU	LED
TB-07	L-861T-L	L-867B	'Taxiway B4' 42+00.00	27.50' RT.	R1	E3.2	BLU	LED
TB-08	L-861T-L	L-867B	'Taxiway B4' 41+24.66	35.93' LT.	R1	E3.2	BLU	LED
TB-09	L-861T-L	L-867B	'Taxiway B4' 41+24.66	27.50' RT.	R1	E3.2	BLU	LED
TB-10	L-861T-L	L-867B	'Taxiway B4' 40+90.36	46.00' LT.	R1	E3.2	BLU	LED
TB-11	L-861T-L	L-867B	'Taxiway B4' 40+92.08	27.50' RT.	R1	E3.2	BLU	LED
TB-12	L-861T-L	L-867B	'Taxiway B4' 164+89.21	56.06' LT.	R1	E3.2	BLU	LED
TB-13	L-861T-L	L-867B	'Taxiway B4' 40+59.50	27.50' RT.	R1	E3.2	BLU	LED
TB-14	L-861T-L	L-867B	'Taxiway B4' 40+26.21	20.88' RT.	R1	E3.2	BLU	LED
TB-15	L-861T-L	L-867B	'Taxiway B' 164+54.91	46.00' LT.	R1	E3.2	BLU	LED
TB-16	L-861T-L	L-867B	'Taxiway B' 165+47.29	2.02' RT.	R1	E3.2	BLU	LED
TB-17	L-861T-L	L-867B	'Taxiway B' 165+19.06	20.88' RT.	R1	E3.2	BLU	LED
TB-18	L-861T-L	L-867B	'Taxiway B' 164+85.77	27.50' RT.	R1	E3.2	BLU	LED
TB-19	L-861T-L	L-867B	'Taxiway B' 164+53.19	27.50' RT.	R1	E3.2	BLU	LED
TB-20	L-861T-L	L-867B	'Taxiway B' 164+20.61	35.93' LT.	R1	E3.2	BLU	LED
TB-21	L-861T-L	L-867B	'Taxiway B' 164+20.61	27.50' RT.	R1	E3.2	BLU	LED
TB-22	L-861T-L	L-867B	'Taxiway B' 163+70.61	33.64' LT.	R1	E3.2	BLU	LED
TB-23	L-861T-L	L-867B	'Taxiway B' 163+70.61	27.50' RT.	R1	E3.2	BLU	LED
TB-24	L-861T-L	L-867B	'Taxiway B' 162+59.31	28.52' LT.	R1	E3.2	BLU	LED
TB-25	L-861T-L	L-867B	'Taxiway B' 162+59.31	27.50' RT.	R1	E3.2	BLU	LED



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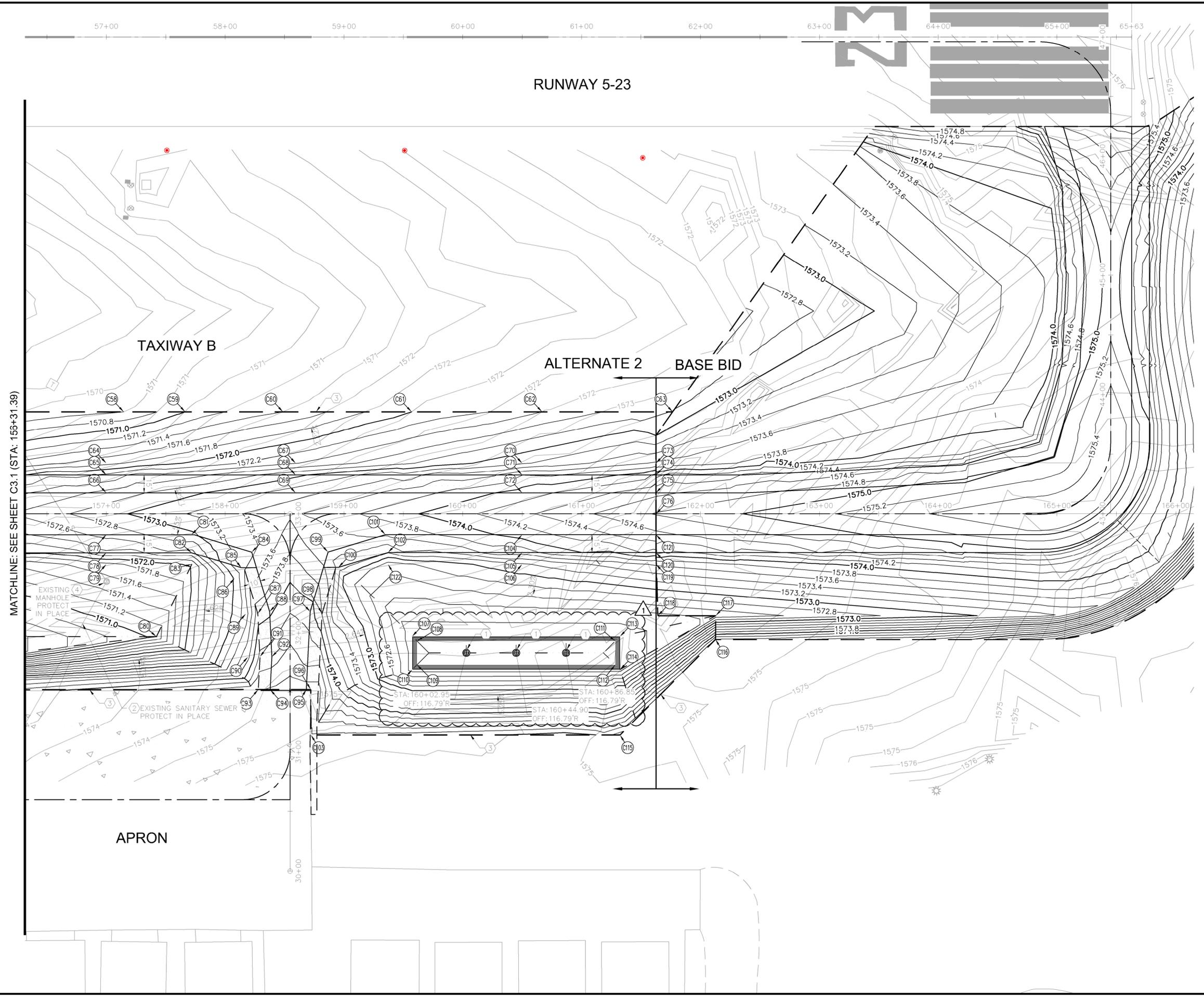
PROJECT NO. 191842000
 DRAWING NAME
 E1.1 OF 45

SCALE (H):
 SCALE (V):
 DESIGNED BY: ECL
 DRAWN BY: JDB
 CHECKED BY: DYE
 DATE: 07/06/2016

COOLIDGE MUNICIPAL AIRPORT
 CITY OF COOLIDGE
 GROWTH MANAGEMENT
 131 W PINKLEY AVE
 COOLIDGE, AZ 85228

ADDITIONAL #2
 NO. REVISION
 DATE

K:\BLK_Arch\191593007\Coolidge Airport\191593007GD.dwg, Jul 29, 2016 Brandon.Robinson
 KREFS: Y:\191593007\Coolidge Airport\191593007GD.dwg, Jul 29, 2016 Brandon.Robinson
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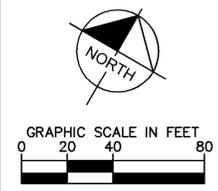


MATCHLINE: SEE SHEET C3.1 (STA: 156+31.39)

- ### LEGEND
- AC PAVEMENT (P-401)
 - AC PAVEMENT SHOULDER (MAG 710)
 - MILLINGS PLACEMENT
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - SLOPE DIRECTION
 - GRADING LIMITS
 - GRADE BREAK
 - FLOW LINE
 - PROPOSED SPOT ELEVATION
 - PROPOSED DRYWELL
 - EXISTING CATCH BASIN
 - EXISTING TAXIWAY EDGE LIGHTS
 - EXISTING COMMUNICATION BOX
 - EXISTING CACTUS
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING SANITARY SEWER
 - EXISTING STORM DRAIN PIPE

- ### GENERAL NOTES:
1. REFER TO SHEET C1.4 FOR HORIZONTAL AND VERTICAL CONTROL
 2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATIONS AS SHOWN ON PLAN. IF EXISTING ELEVATIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
 3. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
 4. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
 5. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
 6. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

- ### CONSTRUCTION NOTES:
- REFER TO SHEET C7.7 FOR SPOT ELEVATION TABLES.
- ① FURNISH AND INSTALL DRYWELL PER DETAIL 1 SHEET C7.2 OR APPROVED EQUAL
 - ② EXISTING STRUCTURE TO REMAIN PROTECTED IN PLACE
 - ③ MATCH EXISTING GRADE
 - ④ ADJUST EXISTING SANITARY SEWER STRUCTURE, SEE DETAILS ON SHEET C7.7



<p style="font-size: 8px; margin: 0;"> © 2016 KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5500 </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> </td> <td style="width: 50%; text-align: center;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DESIGNED BY: BLG</td> <td style="width: 50%;">DRAWN BY: BLR</td> </tr> <tr> <td>CHECKED BY: BLG</td> <td>DATE: 07/29/16</td> </tr> </table> </td> </tr> </table>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DESIGNED BY: BLG</td> <td style="width: 50%;">DRAWN BY: BLR</td> </tr> <tr> <td>CHECKED BY: BLG</td> <td>DATE: 07/29/16</td> </tr> </table>	DESIGNED BY: BLG	DRAWN BY: BLR	CHECKED BY: BLG	DATE: 07/29/16
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CHECKED BY: BLG	DATE: 07/29/16						
<p style="font-size: 8px; margin: 0;"> COOLIDGE MUNICIPAL AIRPORT CITY OF COOLIDGE GROWTH MANAGEMENT 151 W PINKLEY AVE COOLIDGE, AZ 85228 </p>							
<p style="font-size: 8px; margin: 0;"> COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GRADING AND DRAINAGE ALTERNATE 2 </p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PROJECT NO. 191593007</td> <td style="width: 50%;">DRAWING NAME 191593007GD.dwg</td> </tr> <tr> <td colspan="2" style="text-align: center;">C7.6</td> </tr> <tr> <td colspan="2" style="text-align: center;">SHEET NO. 40 OF 45</td> </tr> </table>		PROJECT NO. 191593007	DRAWING NAME 191593007GD.dwg	C7.6		SHEET NO. 40 OF 45	
PROJECT NO. 191593007	DRAWING NAME 191593007GD.dwg						
C7.6							
SHEET NO. 40 OF 45							



COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
FAA AIP 3-04-0011-010-2015 (DESIGN)
ADOT E6F2K (DESIGN)
COOLIDGE PROJECT NO. AIP-01-2016

BID SCHEDULE – BASE BID A

Base Bid A					Unit Price	Amount
Item No.	Specification Number	Bid Item Description	Quantity	Unit		
1	P-100-3.1	Contractor Quality Control	1	LS		\$ -
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS		\$ -
3	P-101-6.3	Sawcut Existing AC Pavement	240	LF		\$ -
4	P-101-6.2	Sawcut Existing PCC Pavement	0	LF		\$ -
5	P-101-6.1	Bituminous Pavement Removal (5 In. Depth)	10,000	SY		\$ -
6	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	6,700	CY		\$ -
7	P-151-4.2	Clearing and Grubbing	11	AC		\$ -
8	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,900	SY		\$ -
9	P-155-8.2	Lime	120	TONS		\$ -
10	P-156-5.1	Storm Water Pollution Prevention	1	LS		\$ -
11	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,500	SY		\$ -
12	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	260	CY		\$ -
13	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	270	TONS		\$ -
14	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	790	TONS		\$ -
15	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder & Service)	0	SY		\$ -
16	P-620-5.1-1	Pavement Markings (Yellow)	2,205	SF		\$ -
17	P-620-5.1-2	Pavement Markings (Black)	630	SF		\$ -
18	P-620-5.1-3	Pavement Markings (White)	189	SF		\$ -
19	D-100-1.4	Drywell	3	EA		\$ -
20	M-002-4.1	Field Office and Curing Facilities	1	LS		\$ -
21	GP-120.1	Airside Safety and Security / Traffic Control	1	LS		\$ -
22	L-100-5.1	Electrical Demolition	1	LS		\$ -
23	L-100-5.2	Remove and Re-install Runway End Light	2	EA		\$ -
24	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	2,900	LF		\$ -
25	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	2,500	LF		\$ -
26	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	225	LF		\$ -
27	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	550	LF		\$ -
28	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	4	EA		\$ -
29	L-858-5.1	2-Module, Size 1 Airfield Sign with Concrete Base	3	EA		\$ -
30	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	1	EA		\$ -
31	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	25	EA		\$ -
32	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	27	EA		\$ -
33	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	1	EA		\$ -
					Total	\$ -

**TOTAL BASE BID A
AMOUNT (IN NUMBERS):**

\$ _____

TOTAL BASE BID A AMOUNT (IN WORDS):



BID SCHEDULE – BASE BID B

Base Bid B						Unit Price	Amount
Item No.	Specification Number	Bid Item Description	Quantity	Unit			
1	P-100-3.1	Contractor Quality Control	1	LS		\$	-
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS		\$	-
3	P-101-6.3	Sawcut Existing AC Pavement	240	LF		\$	-
4	P-101-6.2	Sawcut Existing PCC Pavement	0	LF		\$	-
5	P-101-6.1	Bituminous Pavement Removal (5 In. Depth)	10,000	SY		\$	-
6	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	6,700	CY		\$	-
7	P-151-4.2	Clearing and Grubbing	11	AC		\$	-
8	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,900	SY		\$	-
9	P-155-8.2	Lime	120	TONS		\$	-
10	P-156-5.1	Storm Water Pollution Prevention	1	LS		\$	-
11	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,500	SY		\$	-
12	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	260	CY		\$	-
13	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	270	TONS		\$	-
14	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	790	TONS		\$	-
15	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder & Service)	0	SY		\$	-
16	P-620-5.1-1	Pavement Markings (Yellow)	2,205	SF		\$	-
17	P-620-5.1-2	Pavement Markings (Black)	630	SF		\$	-
18	P-620-5.1-3	Pavement Markings (White)	189	SF		\$	-
19	D-100-1.4	Drywell	3	EA		\$	-
20	M-002-4.1	Field Office and Curing Facilities	1	LS		\$	-
21	GP-120.1	Airside Safety and Security / Traffic Control	1	LS		\$	-
22	L-100-5.1	Electrical Demolition	1	LS		\$	-
23	L-100-5.2	Remove and Re-install Runway End Light	2	EA		\$	-
24	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	250	LF		\$	-
25	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	0	LF		\$	-
26	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	225	LF		\$	-
27	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	550	LF		\$	-
28	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	4	EA		\$	-
28	L-853-4.1	New L-853 Stake Mounted Retroreflective Marker	25	EA		\$	-
29	L-858-5.3	Unlit 2-Module, Size 1 Airfield Sign with Concrete Base	3	EA		\$	-
30	L-858-5.4	Unlit 3-Module, Size 1 Airfield Sign with Concrete Base	1	EA		\$	-
31	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	2	EA		\$	-
32	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	1	EA		\$	-
						Total	\$ -

TOTAL BASE BID B AMOUNT (IN NUMBERS):

\$ _____

TOTAL BASE BID B AMOUNT (IN WORDS):



BID SCHEDULE – ALTERNATE 1A

Alternate 1A						Unit Price	Amount
Item No.	Specification Number	Bid Item Description	Quantity	Unit			
1	P-100-3.1	Contractor Quality Control	1	LS		\$	-
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS		\$	-
3	P-104.2	Sawcut Existing PCC Pavement	480	LF		\$	-
4	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	5,050	CY		\$	-
5	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,300	SY		\$	-
6	P-155-8.2	Lime	110	TONS		\$	-
7	P-156-5.1	Storm Water Pollution Prevention	1	LS		\$	-
8	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,100	SY		\$	-
9	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	300	CY		\$	-
10	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	300	TONS		\$	-
11	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	700	TONS		\$	-
12	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder)	100	SY		\$	-
13	P-620-5.1-1	Pavement Markings (Yellow)	1,890	SF		\$	-
14	P-620-5.1-2	Pavement Markings (Black)	630	SF		\$	-
15	P-620-5.1-3	Pavement Markings (White)	0	SF		\$	-
16	D-100-1.4	Drywell	3	EA		\$	-
17	M-002-4.1	Field Office and Curing Facilities	1	LS		\$	-
18	GP-120.1	Airside Safety and Security / Traffic Control	1	LS		\$	-
19	L-100-5.1	Electrical Demolition	1	LS		\$	-
20	L-100-5.2	Remove and Re-install Runway End Light	0	EA		\$	-
21	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF		\$	-
22	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	1,300	LF		\$	-
23	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	0	LF		\$	-
24	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	250	LF		\$	-
25	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	1	EA		\$	-
26	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	0	EA		\$	-
27	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	2	EA		\$	-
28	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	23	EA		\$	-
29	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	23	EA		\$	-
30	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA		\$	-
						Total	\$ -

**TOTAL ALTERNATE 1A AMOUNT
(IN NUMBERS):**

\$ _____

TOTAL ALTERNATE 1A AMOUNT (IN WORDS):



COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
FAA AIP 3-04-0011-010-2015 (DESIGN)
ADOT E6F2K (DESIGN)
COOLIDGE PROJECT NO. AIP-01-2016

BID SCHEDULE – ALTERNATE 1B

Alternate 1B					Unit Price	Amount	
Item No.	Specification Number	Bid Item Description	Quantity	Unit			
1	P-100-3.1	Contractor Quality Control	1	LS	\$	-	
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS	\$	-	
3	P-104.2	Sawcut Existing PCC Pavement	480	LF	\$	-	
4	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	5,050	CY	\$	-	
5	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,300	SY	\$	-	
6	P-155-8.2	Lime	110	TONS			
7	P-156-5.1	Storm Water Pollution Prevention	1	LS	\$	-	
8	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,100	SY	\$	-	
9	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	300	CY	\$	-	
10	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	300	TONS	\$	-	
11	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	700	TONS	\$	-	
12	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder)	100	SY	\$	-	
13	P-620-5.1-1	Pavement Markings (Yellow)	1,890	SF	\$	-	
14	P-620-5.1-2	Pavement Markings (Black)	630	SF	\$	-	
15	P-620-5.1-3	Pavement Markings (White)	0	SF	\$	-	
16	D-100-1.4	Drywell	3	EA	\$	-	
17	M-002-4.1	Field Office and Curing Facilities	1	LS	\$	-	
18	GP-120.1	Airside Safety and Security / Traffic Control	1	LS	\$	-	
19	L-100-5.1	Electrical Demolition	1	LS	\$	-	
20	L-100-5.2	Remove and Re-install Runway End Light	0	EA	\$	-	
21	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF	\$	-	
22	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	0	LF	\$	-	
23	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	225	LF	\$	-	
24	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	250	LF	\$	-	
25	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	1	EA	\$	-	
26	L-853-4.1	New L-853 State Mounted Retroreflective Marker	23	EA	\$	-	
27	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	0	EA	\$	-	
28	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	2	EA	\$	-	
29	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	0	EA	\$	-	
30	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	0	EA	\$	-	
31	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA	\$	-	
					Total	\$	-

**TOTAL ALTERNATE 1B AMOUNT
(IN NUMBERS):**

\$ _____

TOTAL ALTERNATE 1B AMOUNT (IN WORDS):



BID SCHEDULE – ALTERNATE 2A

Alternate 2A						Unit Price	Amount
Item No.	Specification Number	Bid Item Description	Quantity	Unit			
1	P-100-3.1	Contractor Quality Control	1	LS		\$	-
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS		\$	-
3	P-104.2	Sawcut Existing PCC Pavement	250	LF		\$	-
4	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	10,050	CY		\$	-
5	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	9,900	SY		\$	-
6	P-155-8.2	Lime	210	TONS			
7	P-156-5.1	Storm Water Pollution Prevention	1	LS		\$	-
8	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	6,100	SY		\$	-
9	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	400	CY		\$	-
10	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	500	TONS		\$	-
11	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	1,400	TONS		\$	-
12	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder & Service)	400	SY		\$	-
13	P-620-5.1-1	Pavement Markings (Yellow)	4,200	SF		\$	-
14	P-620-5.1-2	Pavement Markings (Black)	1,890	SF		\$	-
15	P-620-5.1-3	Pavement Markings (White)	0	SF		\$	-
16	D-100-1.4	Drywell	5	EA		\$	-
17	D-100.2	Adjust Existing Drainage Structure	1	LS			
18	M-002-4.1	Field Office and Curing Facilities	1	LS		\$	-
19	GP-120.1	Airside Safety and Security / Traffic Control	1	LS		\$	-
20	L-100-5.1	Electrical Demolition	1	LS		\$	-
21	L-100-5.2	Remove and Re-install Runway End Light	0	EA		\$	-
22	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF		\$	-
23	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	2,750	LF		\$	-
24	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	0	LF		\$	-
25	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	900	LF		\$	-
26	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	3	EA		\$	-
27	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	1	EA		\$	-
28	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	4	EA		\$	-
29	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	45	EA		\$	-
30	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	45	EA		\$	-
31	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA		\$	-
Total						\$	-

**TOTAL ALTERNATE 2A AMOUNT
(IN NUMBERS):**

\$ _____

TOTAL ALTERNATE 2A AMOUNT (IN WORDS):



COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
FAA AIP 3-04-0011-010-2015 (DESIGN)
ADOT E6F2K (DESIGN)
COOLIDGE PROJECT NO. AIP-01-2016

BID SCHEDULE – ALTERNATE 2B

Alternate 2B							
Item No.	Specification Number	Bid Item Description	Quantity	Unit	Unit Price	Amount	
1	P-100-3.1	Contractor Quality Control	1	LS		\$ -	
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS		\$ -	
3	P-152	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	10,100	CY		\$ -	
4	P-104.2	Sawcut Existing PCC Pavement	250	LF		\$ -	
5	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	9,900	SY		\$ -	
6	P-155-8.2	Lime	210	TONS		\$ -	
7	P-156-5.1	Storm Water Pollution Prevention	1	LS		\$ -	
8	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	6,100	SY		\$ -	
9	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	400	CY		\$ -	
10	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	500	TONS		\$ -	
11	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	1,400	TONS		\$ -	
12	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder)	400	SY		\$ -	
13	P-620-5.1-1	Pavement Markings (Yellow)	4,200	SF		\$ -	
14	P-620-5.1-2	Pavement Markings (Black)	1,890	SF		\$ -	
15	P-620-5.1-3	Pavement Markings (White)	0	SF		\$ -	
16	D-100-1.4	Drywell	5	EA		\$ -	
17	D-100.2	Adjust Existing Drainage Structure	1	LS		\$ -	
18	M-002-4.1	Field Office and Curing Facilities	1	LS		\$ -	
19	GP-120.1	Airside Safety and Security / Traffic Control	1	LS		\$ -	
20	L-100-5.1	Electrical Demolition	1	LS		\$ -	
21	L-100-5.2	Remove and Re-install Runway End Light	0	EA		\$ -	
22	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF		\$ -	
23	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	0	LF		\$ -	
24	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	0	LF		\$ -	
25	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	900	LF		\$ -	
26	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	7	EA		\$ -	
27	L-853-4.1	New L-853 State Mounted Retroreflective Marker	45	EA		\$ -	
28	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	1	EA		\$ -	
29	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	4	EA		\$ -	
30	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	0	EA		\$ -	
31	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	0	EA		\$ -	
32	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA		\$ -	
Total						\$ -	

**TOTAL ALTERNATE 2B AMOUNT
(IN NUMBERS):**

\$ _____

TOTAL ALTERNATE 2B AMOUNT (IN WORDS):



ASSURANCE OF DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION

To meet the mandated requirements of the United States Department of Transportation, 49 CFR Part 26, the assurance below shall be signed by the bidder and submitted with the bid. For additional federal requirements, see the *Federal Assurances and Certifications* document.

**BIDDER'S ASSURANCE OF COMPLIANCE WITH TITLE 49 CFR PART 26
RELATING TO DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION**

The bidder hereby gives assurance pursuant to the requirements of Title 49 CFR part 26 that bidder has made a reasonable effort to meet the goals for Disadvantaged Business Enterprise participation specified for the contract for which this proposal is submitted and that bidder, if the contract is awarded to bidder, will have a DBE participation of ____ percent of the amount of this bid. Bidder further gives assurance that bidder has submitted the documentation required by said Regulations and the contract specifications, including the Listing of Disadvantaged Business Enterprises with which the bidder will subcontract if the contract is awarded (as outlined in Article 12 of the Instructions to Bidders) and if bidder is unable to meet the contract goals for DBE participation, and the steps bidder has taken to obtain DBE participation.

_____	_____
Signature	Name of Bidder
_____	_____
Date	Name and Title of Signing Officer
Business Address: _____	

NOTE: Bidder shall insert the percentage for DBE participation even if the percentage is less than the contract goal. A bid that fails to meet these requirements may be considered grounds for rejecting the bid.

ATTACHMENT A
LETTER OF INTENT TO PERFORM AS A SUBCONSULTANT/SUBCONTRACTOR/SUPPLIER
 (TO BE COMPLETED BY THE DBE SUBCONTRACTOR/SUPPLIER)

PROJECT DESCRIPTION: REHABILITATE TAXIWAY B & B4 PROJECT NUMBER: AIP-01-2016

TO: _____ (Insert name of prime contractor or general bidder)

1. The undersigned is certified as a DBE as of the date of this bid with the following agency:

___ City of Phoenix ___ City of Tucson ___ AZ Department of Transportation

___ Other (please provide agency name and complete Attachment C)

2. The undersigned is prepared to perform the following scope(s) of work on the above referenced project:

COMPLETE THIS PORTION IF SCOPE OF WORK IS BID BY UNIT PRICE OR HOURLY RATE (TRUCKING, HAULING, UNIFORMED OFFICERS, ETC.)			
Description	Unit/Hour Estimate	Unit/Hourly Price	Total Minimum Contract Amount
			\$

COMPLETE THIS PORTION IF SCOPE OF WORK IS NOT BID BY UNIT PRICE OR HOURLY RATE	
Description	Total Bid Amount
	\$

3. The undersigned affirms that of the trucking/hauling work quoted above, the following applies:

# of trucks needed to perform the project _____	# of trucks owned by DBE to be used on project _____
# of trucks to be leased from a DBE _____	# of trucks to be leased from a non-DBE _____

4. The undersigned affirms the amount of fees and commissions for work quoted above is as follows:

Unit Price Bid \$ _____ Fees/Commissions Portion of Bid \$ _____

5. The undersigned will sublet and/or award \$ _____ of work bid to a non-DBE firm

6. The undersigned will sublet and/or award \$ _____ of work bid to another certified DBE firm

On the _____ day of _____, 20____, by signature below, the undersigned agrees to enter into a formal agreement/subcontract for the work cited herein should the prime contractor receive award of this contract from the Coolidge Municipal Airport.

_____ (Print DBE Firm Name) _____ (Phone Number) _____ (Authorized Signature) _____ (Print Name and Title)

**ATTACHMENT B – BASE BID A
CITY OF COOLIDGE
CONTRACTOR'S STATEMENT OF DBE UTILIZATION**

SHEET ____ OF ____

(1) PAY REQUEST NO. _____

(2) REPORT PERIOD FROM _____ TO _____

(3) PROJECT NAME _____

(4) PROJECT NO. _____

(5) BASE BID \$ _____

(6) CONTRACT NO. _____

(7) REQUIRED DBE UTILIZATION _____%

(8) PROPOSED DBE UTILIZATION _____%

(9) DBE NAME REPRESENTATIVE NAME & TELEPHONE NUMBER	(10) CLASS OF WORK	(11) CONTRACT AMOUNT	(12) CONTRACT ADJUSTMENT S	(13) REVISED CONTRACT AMOUNT	(14) AMOUNT EARNED THIS PERIOD	(15) AMOUNT EARNED TO DATE	(16) AMOUNT RETAINED THIS PERIOD	(17) AMOUNT RETAINED TO DATE	(18) % OF CONTRACT COMPLETE TO DATE
(19) DBE TOTALS									

(20) CONTRACTOR _____

(21) AUTHORIZED SIGNATURE _____

(22) DATE _____

(23) PERCENTAGE OF TOTAL CONTRACT COMPLETED TO DATE _____%

**ATTACHMENT B – BASE BID B
CITY OF COOLIDGE
CONTRACTOR'S STATEMENT OF DBE UTILIZATION**

SHEET ___ OF ___

(1) PAY REQUEST NO. _____

(2) REPORT PERIOD FROM _____ TO _____

(3) PROJECT NAME _____

(4) PROJECT NO. _____

(5) BASE BID \$ _____

(6) CONTRACT NO. _____

(7) REQUIRED DBE UTILIZATION _____%

(8) PROPOSED DBE UTILIZATION _____%

(9) DBE NAME REPRESENTATIVE NAME & TELEPHONE NUMBER	(10) CLASS OF WORK	(11) CONTRACT AMOUNT	(12) CONTRACT ADJUSTMENT S	(13) REVISED CONTRACT AMOUNT	(14) AMOUNT EARNED THIS PERIOD	(15) AMOUNT EARNED TO DATE	(16) AMOUNT RETAINED THIS PERIOD	(17) AMOUNT RETAINED TO DATE	(18) % OF CONTRACT COMPLETE TO DATE
(19) DBE TOTALS									

(20) CONTRACTOR _____

(21) AUTHORIZED SIGNATURE _____

(22) DATE _____

(23) PERCENTAGE OF TOTAL CONTRACT COMPLETED TO DATE _____%

**ATTACHMENT B – ALTERNATE 1A
CITY OF COOLIDGE
CONTRACTOR’S STATEMENT OF DBE UTILIZATION**

SHEET ___ OF ___

(1) PAY REQUEST NO. _____

(2) REPORT PERIOD FROM _____ TO _____

(3) PROJECT NAME _____

(4) PROJECT NO. _____

(5) BASE BID \$ _____

(6) CONTRACT NO. _____

(7) REQUIRED DBE UTILIZATION _____%

(8) PROPOSED DBE UTILIZATION _____%

(9) DBE NAME REPRESENTATIVE NAME & TELEPHONE NUMBER	(10) CLASS OF WORK	(11) CONTRACT AMOUNT	(12) CONTRACT ADJUSTMENT S	(13) REVISED CONTRACT AMOUNT	(14) AMOUNT EARNED THIS PERIOD	(15) AMOUNT EARNED TO DATE	(16) AMOUNT RETAINED THIS PERIOD	(17) AMOUNT RETAINED TO DATE	(18) % OF CONTRACT COMPLETE TO DATE
(19) DBE TOTALS									

(20) CONTRACTOR _____

(21) AUTHORIZED SIGNATURE _____

(22) DATE _____

(23) PERCENTAGE OF TOTAL CONTRACT COMPLETED TO DATE _____%

**ATTACHMENT B – ALTERNATE 1B
CITY OF COOLIDGE
CONTRACTOR'S STATEMENT OF DBE UTILIZATION**

SHEET ____ OF ____

(1) PAY REQUEST NO. _____

(2) REPORT PERIOD FROM _____ TO _____

(3) PROJECT NAME _____

(4) PROJECT NO. _____

(5) BASE BID \$ _____

(6) CONTRACT NO. _____

(7) REQUIRED DBE UTILIZATION _____%

(8) PROPOSED DBE UTILIZATION _____%

(9) DBE NAME REPRESENTATIVE NAME & TELEPHONE NUMBER	(10) CLASS OF WORK	(11) CONTRACT AMOUNT	(12) CONTRACT ADJUSTMENT S	(13) REVISED CONTRACT AMOUNT	(14) AMOUNT EARNED THIS PERIOD	(15) AMOUNT EARNED TO DATE	(16) AMOUNT RETAINED THIS PERIOD	(17) AMOUNT RETAINED TO DATE	(18) % OF CONTRACT COMPLETE TO DATE
(19) DBE TOTALS									

(20) CONTRACTOR _____

(21) AUTHORIZED SIGNATURE _____

(22) DATE _____

(23) PERCENTAGE OF TOTAL CONTRACT COMPLETED TO DATE _____%

**ATTACHMENT B – ALTERNATE 2A
CITY OF COOLIDGE
CONTRACTOR'S STATEMENT OF DBE UTILIZATION**

SHEET ____ OF ____

(1) PAY REQUEST NO. _____

(2) REPORT PERIOD FROM _____ TO _____

(3) PROJECT NAME _____

(4) PROJECT NO. _____

(5) BASE BID \$ _____

(6) CONTRACT NO. _____

(7) REQUIRED DBE UTILIZATION _____%

(8) PROPOSED DBE UTILIZATION _____%

(9) DBE NAME REPRESENTATIVE NAME & TELEPHONE NUMBER	(10) CLASS OF WORK	(11) CONTRACT AMOUNT	(12) CONTRACT ADJUSTMENT S	(13) REVISED CONTRACT AMOUNT	(14) AMOUNT EARNED THIS PERIOD	(15) AMOUNT EARNED TO DATE	(16) AMOUNT RETAINED THIS PERIOD	(17) AMOUNT RETAINED TO DATE	(18) % OF CONTRACT COMPLETE TO DATE
(19) DBE TOTALS									

(20) CONTRACTOR _____

(21) AUTHORIZED SIGNATURE _____

(22) DATE _____

(23) PERCENTAGE OF TOTAL CONTRACT COMPLETED TO DATE _____%

**ATTACHMENT B – ALTERNATE 2B
CITY OF COOLIDGE
CONTRACTOR'S STATEMENT OF DBE UTILIZATION**

SHEET ____ OF ____

(1) PAY REQUEST NO. _____

(2) REPORT PERIOD FROM _____ TO _____

(3) PROJECT NAME _____

(4) PROJECT NO. _____

(5) BASE BID \$ _____

(6) CONTRACT NO. _____

(7) REQUIRED DBE UTILIZATION _____%

(8) PROPOSED DBE UTILIZATION _____%

(9) DBE NAME REPRESENTATIVE NAME & TELEPHONE NUMBER	(10) CLASS OF WORK	(11) CONTRACT AMOUNT	(12) CONTRACT ADJUSTMENT S	(13) REVISED CONTRACT AMOUNT	(14) AMOUNT EARNED THIS PERIOD	(15) AMOUNT EARNED TO DATE	(16) AMOUNT RETAINED THIS PERIOD	(17) AMOUNT RETAINED TO DATE	(18) % OF CONTRACT COMPLETE TO DATE
(19) DBE TOTALS									

(20) CONTRACTOR _____

(21) AUTHORIZED SIGNATURE _____

(22) DATE _____

(23) PERCENTAGE OF TOTAL CONTRACT COMPLETED TO DATE _____%

ATTACHMENT C
IDENTIFICATION STATEMENT FOR DISADVANTAGED BUSINESS ENTERPRISES
(TO BE COMPLETED BY ANY DBE WHO IS NOT CERTIFIED BY THE Arizona Unified Certification Program)

The undersigned herein affirms that the firm submitting this statement has qualified as a Disadvantaged Business Enterprise and holds a current DBE certification from a U.S. Department of Transportation (USDOT) recognized certifying agency as follows:

DBE CERTIFYING AGENCY: _____ PHONE # _____
EXPIRATION DATE OF CURRENT DBE CERTIFICATION: _____, 20__

DBE BUSINESS NAME: _____
DBE PRINCIPAL BUSINESS ADDRESS: _____
CITY: _____ STATE: ____ ZIP: _____
PHONE #:(____) _____
DBE QUALIFYING OWNER: _____ TITLE _____

LICENSES HELD BY DBE FIRM: _____
ISSUED BY: _____
SERVICES/WORK/PRODUCTS PROVIDED: _____

SIGNED AND DATED this _____ day of _____, 20__

Authorized Signature

Print Name and Title



ITEM M-002 ENGINEER'S FIELD OFFICE AND CURING FACILITIES

DESCRIPTION

002-1.1 GENERAL. This item shall consist of furnishing, maintaining and weekly cleaning of an Engineer's field office for the exclusive use of the Engineer, in weatherproof building hereafter described, at locations approved by the Engineer. Unless otherwise approved, the building shall be independent of any buildings used by the Contractor and all keys to the buildings shall be turned over to the Engineer.

FIELD OFFICE, CONCRETE CURING AND TESTING FACILITIES

002-2.1 FIELD OFFICE. The Contractor shall furnish a building for the exclusive use of the Engineer as a field office. The building shall be furnished and maintained by the Contractor as specified herein and shall become property of the Contractor thirty (30) calendar days after the contract work is finally complete. The office shall be durable, waterproof, dust tight and securable.

The field office shall have ceiling heights of not less than eight (8) feet and a floor space of not less than 520 square feet. The field office shall have at least three (3) rooms. The offices shall be provided with sufficient heat, natural and artificial light and air conditioning to maintain thermostatically controlled temperatures between 60 and 80 degrees Fahrenheit. Doors and windows shall be equipped with locks approved by the Engineer, and windows shall contain wrought iron security coverings and adjustable blinds. Suitable sanitary facilities separate from those for the Contractor's personnel meeting Federal, state and local health department requirements shall be provided and maintained and cleaned daily. Bathrooms shall be stocked with lavatory and sanitary supplies at all times during the period of the Contract.

The layout of field offices that are provided by the Contractor must be approved by the Engineer, and they shall be securely blocked and tied down per the manufacturer's recommendations.

In addition, the following equipment and furniture meeting the approval of the Engineer shall be furnished for the Engineers Field Office:



TABLE 1 - Required Equipment and Furniture

Quantity	Description of Item or Items
3	Desks (2.5-feet by 5-feet) with armed swivel desk chairs.
3	Three shelf bookcases (each shelf to accommodate at least 12" high binders).
4	Four-drawer legal file cabinet.
4	Folding padded chairs.
4	Folding Tables (2.5-feet by 5-feet).
1	Direct Service Line (DSL) high speed internet connection.
1	Equipment cabinets with lock (36-inches wide by 72-inches tall by 15-inches deep minimum).
1	Carbon dioxide fire extinguisher (as required by code for office and computers).
1	First aid kits (as required by code).
3	Smoke detectors (as required by code).
1	Electric water cooler hot and cold dispenser with water and cups supplied as needed.
3	Trash cans (1.2 cubic feet minimum capacity).
1	Dry erase board, 3-feet by 4-feet (with one set of four colored markers, eraser, and cleaner).
1	Refrigerator/freezer, 14 cubic foot.
1	Microwave oven.
2	Pole mounted fixture, 1,000W, with photocell control for parking lot lighting security.
2	Straightedges (one 12-foot straightedge and one 16-foot straightedge).
As Needed	Cubed or crushed ice for inspection and testing staff for continuous usage.

The field office building, equipment, materials and furnishings, shall remain fully operational and maintained on the job site until thirty (30) calendar days after final acceptance, unless released at an earlier date by the Engineer.

The Contractor shall provide continuous maintenance and refuse removal. Weekly cleaning and janitorial services shall be provided, except that sanitary facilities shall be cleaned daily. In addition to office supplies stated herein, the Contractor shall provide soap, paper towels, cleansers, and sanitary supplies to maintain a functional field office for the duration of the contract.

002-2.2 CONCRETE CURING AND TESTING FACILITY. A curing facility is not required for this project.



002-2.3 TEMPORARY UTILITIES. The Contractor shall make all arrangements, obtain any necessary permits, install utilities and pay for all installation fees and all monthly billings for the following utilities for the Field:

- a. Arizona Public Service (APS).
- b. Temporary generator if APS services are not provided.
- c. Telephone and Internet Communications.
- d. Wastewater Services.
- e. Refuse Services.

The Contractor shall coordinate and arrange with the appropriate utility owner to install temporary service or connect to existing service. Where the company provides only part of the service, the Contractor shall provide the remainder with matching, compatible materials and equipment; and comply with the company's requirements. All work and costs associated with installing and maintaining utilities shall be the responsibility of the Contractor. In the event that the electrical power is not available or initially available for the field offices, the Contractor shall provide generators until such permanent electrical power is available.

METHOD OF MEASUREMENT

002-3.1 This item shall be measured as one lump sum for providing a Field Office and a Concrete Curing and Testing Facility, in accordance with this specification and for the duration of the project. The duration of the project is anticipated to be up 90 calendar days for substantial completion, if all of the additive alternate bids are awarded, and an additional 30 calendar days for final completion.

BASIS OF PAYMENT

002-4.1 Payment for providing the Field Office and Concrete Curing Facilities fully equipped as specified herein shall be made at the contract lump sum price.

Payment will be made as follows:

a. First Payment. Sixty percent (60%) of the amount bid will be paid with the first estimate after the Field Office and Concrete Curing Facility are completely furnished and operational to the Engineer's satisfaction.

b. Remaining Payments. The remaining forty percent (40%) will be paid in approximately equal monthly payments based on the duration of the original award contract time. No additional payments will be made for this item if additive alternate bid(s) are constructed by change order or supplemental agreement after the original award.

Payment will be made under:

Item M-002-4.1 Field Office and Curing Facilities – per Lump Sum

END OF ITEM M-002



COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY **B & B4**
FAA AIP 3-04-0011-010-2015 (DESIGN)
ADOT E6F2K (DESIGN)
COOLIDGE PROJECT NO. AIP-01-2016

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Section 120 Airfield Safety and Security

120.01 DEFINITIONS

- a. **Air Operations Area (AOA)** - Air operations area, paved or unpaved, is any area of the airport used for or intended for landing, takeoff, or surface maneuvering of aircraft including its associated runway, taxiway, or apron.
- b. **Airport Marking Aids** - Marking used on runway and taxiway surfaces to identify a specific runway, a runway threshold, a centerline, a hold line, etc. A runway should be marked in accordance with its present usage such as: visual, non-precision instrument, precision instrument.
- c. **Construction** - The presence and movement of construction-related personnel, equipment, and materials in any location that could infringe upon the movement of aircraft.
- d. **Escort** - person authorized by the City of Coolidge to accompany contractor personnel within the Air Operations Area. The escort shall accompany or monitor the activities of an individual(s) in a manner sufficient to take responsive action in a sized area approved by the Engineer. A proper escort is defined as maintaining visual monitoring, within reasonable voice range and being able to react to the actions of those under escort.
- e. **FAA** - The Federal Aviation Administration, a branch of the U.S. Department of Transportation that regulates aviation and airport safety and certification.
- f. **FOD** - Foreign Object Debris/Damage, meaning any object that is potentially hazardous to aircraft.
- g. **General Aviation** - That portion of civil aviation which encompasses all facets of aviation except air carriers holding a certificate of public convenience and necessity from a Civil Aeronautics Board and Large aircraft commercial operators.
- h. **Haul Route** - A specified path created for vehicles to maneuver within the Airport Restricted Area to/from a work site. Haul routes are subject to the approval of the Engineer in accordance with the contract documents.
- i. **Movement Area** - The runways, taxiways, and other areas of an airport that are used for taxiing or hover taxiing, air taxiing, takeoff, and landing of aircraft, exclusive of loading ramps and aircraft parking areas (reference 14 CFR part 139).
- j. **Navigational Aid (NAVAID)** - An apparatus generally located within the AOA, serving as a guide to aircraft.
- k. **Obstruction** - Any object/obstacle exceeding the obstruction standards specified by 14 CFR part 77, subpart C.



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- i. Object-Free Area (OFA)** - An area on the ground centered on the runway, taxiway, or taxilane centerline provided to enhance safety of aircraft operations by having the area free of objects except for those objects that need to be located in the OFA for air navigation or aircraft ground maneuvering purposes (see AC 150/5300-13, *Airport Design*, for additional guidance on OFA standards and wingtip clearance criteria).
 - m. Obstacle-Free Zone (OFZ)** - The airspace below 150 feet (45m) above the established airport elevation and along the runway and extended runway centerline that is required to be clear of all objects, except for frangible visual NAVAIDs that need to be located in the OFZ because of their function, in order to provide clearance protection for aircraft landing or taking off from the runway and for missed approaches (refer to AC 150/5300-13 for guidance on OFZs).
 - n. Precision Approach Path Indicator (PAPI)** - An airport lighting facility providing vertical visual approach slope guidance to aircraft during approach to landing by radiating a directional pattern of high intensity red and white focused light beams which indicate to the pilot that he/she is "on path" if he sees red/white, "above path" if white/white, and "below path" if red/red.
 - o. Restricted Area** – Areas that do not allow access to the general public. These are limited access areas that the City of Coolidge, or the FAA, owners have elected to restrict for purposes of security or safety. It is enclosed by a perimeter fence and includes but is not limited to the AOA, perimeter roadways, haul routes, contractor security gate and worksite.
 - p. Runway** - A defined rectangular area on a land airport prepared for the landing and takeoff run of aircraft along its length. Runways are normally numbered in relation to their magnetic direction rounded off to the nearest 10 degrees; e.g., runway 16 and runway 34.
 - q. Runway End Identifier Lights (REIL)** - Two synchronized flashing lights, one on each side of the runway threshold, which provides rapid and positive identification of the approach end of a particular runway.
 - r. Runway Lights/Runway Edge Lights** - Lights having a prescribed angle of emission used to define the lateral limits of a runway. Runway lights are uniformly spaced and the intensity may be controlled or preset.
 - s. Runway Safety Area (RSA)** - A defined surface surrounding the runway prepared or suitable for reducing the risk of damage to airplanes in the event of an undershoot, overshoot, or excursion from the runway, in accordance with AC 150/5300-13.
 - t. Safety Area** - A designated area abutting the edges of a runway or taxiway intended to reduce the risk of damage to an aircraft inadvertently leaving the runway or taxiway.
 - u. Taxi** - The movement of an airplane under its own power on the surface of an airport.
 - v. Taxiway** - A defined surface used by aircraft for transition/movement to an from aircraft parking areas/aprons to runways.
 - w. Taxiway Lights/Taxiway Edge Lights** - Lights having a prescribed angle of emission used to define the lateral limits of a taxiway and are blue in color.
 - x. Threshold Lights** - Fixed green lights arranged symmetrically left and right of the runway centerline, identifying the runway threshold.



- y. **TSA** – The Transportation Security Administration, a branch of the U.S. Department of Homeland Security that oversees aviation security.
- z. **Visual Flight Rules (VFR)** - Rules that govern the procedures for conducting flight under visual conditions. The term "VFR" is also used in the United States to indicate weather conditions that are equal to or greater than minimum VFR requirements.
- aa. **Worksite** - Area in which work under contract is being performed, generally starting at the contractor on-site trailer. Airport ID badges must be displayed within the worksite at all times.

120.02 AIRPORT SECURITY REQUIREMENTS

The Contractor shall be responsible for the protection of the construction site, and all work, materials, equipment, and existing facilities thereon, against vandals and other unauthorized persons. Security measures shall include such additional security fencing, barricades, lighting, and other measures as the Contractor may deem necessary to protect the site.

The Contractor's responsibilities for work areas are as follows:

1. The Contractor shall be held responsible for controlling his employees, subcontractors, and their employees with regard to traffic movement.
2. The Contractor shall rebuild, repair, restore, and make good at his own expense all injuries or damages to any portion of the work occasioned by his use of these facilities before completion and acceptance of his work.
3. The Contractor shall submit to the Engineer in writing a detailed work plan for each construction phase. The work plan shall include, but not be limited to, temporary electrical facilities, installation sequence of underground electrical and storm sewer systems, paving sequence, installation sequence of electrical items, maintenance of airfield electrical and NAVAID power and control circuits. This plan shall be submitted 14 calendar days prior to the start of each construction phase. No work within the construction phase may commence until the phase work plan is approved.
4. The Contractor shall submit to the Engineer in writing a plan, by construction phase, for controlling construction equipment and vehicular movements in the Air Operations Area (AOA). This plan shall be submitted at the Pre-Construction Meeting. No work may commence until this plan is approved. The Plan must include material haul roads.
5. The Contractor shall provide a responsible Traffic Manager whose duty shall be to direct all traffic on or near active runways, taxiways, haul roads, and highways. Paved surfaces shall be kept clear at all times and specifically must be kept free from all debris which might damage aircraft.

Access Control

- No person shall enter the contractor worksite without authorization. Any person found within the worksite without proper identification as describe herein shall be considered unauthorized and shall be removed from the worksite.

120.03 AIRPORT SAFETY REQUIREMENTS



Operating Construction Vehicles on the Airport

No vehicle shall enter the contractor worksite unless the following conditions are met:

- The driver is authorized to access the worksite
- The driver possesses a valid driver's license.
- The vehicle is properly marked with the company name.
- Vehicle is marked with beacon or checkered flag or under escort.

Prohibited Vehicles

The use of motorcycles, bicycles, two-wheeled motor scooters and privately owned vehicles within the worksite is strictly prohibited.

Vehicle Condition

Vehicles must be in good mechanical condition with operational lights, horn, brakes, and clear visibility from the driver's seat. Trailers and semi-trailers must be equipped with proper brakes so that when disengaged from a towing vehicle, neither aircraft engine blast nor wind will cause them to become free rolling.

Compliance

All traffic within the Airport Restricted Area and/or contractor worksite must comply with any lawful order, signal or direction of any Airport employee. When such traffic is controlled by signs or pavement markings, such symbols shall be obeyed, unless otherwise directed by an officer or agent of the Airport Authority.

Night or Low Visibility Operations

All vehicle headlights, taillights, and running or clearance lights shall be in operational condition. Headlights shall be used at all times.

Construction Vehicle and Equipment Markings

All construction equipment and vehicles shall have flashing amber lights, mounted at the highest point, during the nighttime and a 3' x 3' orange and white checkered flag or a flashing amber beacon during the daytime. All vehicles and equipment on the construction site shall have company designations visibly displayed. No personal vehicles will be allowed in the work area. All construction vehicles and equipment must have the company name and/or logo and vehicle number at least four (4) inches in height on each side of the vehicle.

Operation of Vehicles

No vehicle shall operate within the Airport Restricted Area:

- In a careless or negligent manner.
- With disregard of the rights and safety of others.
- At a speed or in a way which endangers persons or property.
- While the driver is under the influence of drugs or alcohol.
- If such vehicle is loaded or maintained as to endanger persons or property.



Speed Limits

The speed limit on the perimeter roads is 25 miles per hour. The speed limit on the haul route is 15 miles per hour.

Vehicle Accidents

Each operator of a motor vehicle involved in an accident on the airport that results in damage to property or personal injury shall first contact 9-1-1 and then report it fully to the City of Coolidge as soon as possible after the accident. The report must include the name and address of the person reporting.

Use of Crossing Guards

For construction that requires personnel, vehicles, and equipment to cross active taxiways/runways or other areas deemed appropriate by the City of Coolidge, the contractor shall provide crossing guards to prohibit the unauthorized crossing of an active taxiway/runway.

- A crossing guard shall be provided for **both** sides of a crossing point unless otherwise specified by the City of Coolidge.
- Each crossing guard shall be properly equipped: Hand held stop sign, safety vest, and hearing protection.

Hearing Protection

Contractor personnel working on or adjacent to the AOA are encouraged to wear hearing protection.

Worker Injuries

In the event of a serious injury requiring medical attention call **911**. All injuries must also be reported to the City of Coolidge as soon as possible.

After Hours Contacts

The Contractor shall submit to the Engineer a list of personnel who can be contacted 24 hours a day, seven (7) days a week and can respond in a reasonable time frame regarding any possible emergency on the work site. The list must include names, job title and phone numbers.

Daily Site Inspections

Prior to the Contractor leaving the worksite for the day, an inspection of the site shall be completed. All discrepancies noted in the inspection must be corrected to the satisfaction of the Engineer prior to the Contractor leaving the worksite.

Deliveries

All deliveries for the contractor shall be received by the contractor. Deliveries will not be accepted by anyone other than the contractor. The City of Coolidge nor its authorized representatives will not accept or be responsible for deliveries.

Taxiway and Runway Closures



Taxiway and runway closures require a minimum of:

- Prior notification and coordination in accordance with the contract documents.
- Closure requests shall factor in time for unanticipated events such as weather and equipment malfunction.
- Movement area closure schedules must be met. The Contractor shall advise the Engineer immediately of any need to extend a closure.
- Failure to meet a closure schedule may result in fines.
- Barricade lights must be red in color and either steady burn or flashing.
- Temporarily closed runways require the placement of a portable lighted runway closure marker (lighted "X") placed at each end of the runway over the runway designation markings. The lighted runway closure marker shall be provided by the Contractor and must be maintained by the Contractor.

Haul Routes

- Contractors may required to mark haul routes with barricades, traffic cones, signage, and light stanchions prior to the start of work. Both sides of the haul route shall be delineated at the discretion of the City of Coolidge.
- The haul route must be marked with red, steady burn or flashing omni-directional lights if work is schedule between sunset and sunrise.
- The contractor will monitor the haul route on a daily basis to ensure all posted markings, signs, and delineators are in place.

Cranes or Mobilized Equipment

All activities involving cranes or mobilized vehicles exceeding 20 feet in height on or near the AOA require 48-hour advance coordination with the City of Coolidge. The following information is required:

- Location of equipment
- Maximum extendable height
- Duration of use
- Daily hours of operation
- Whether or not the crane can be lowered when not in use

Equipment must be lowered to its stowed height when not in use or as otherwise directed. The **highest point** of each piece of equipment shall be marked by a 3' x 3' orange and white checkered flag. At night and during periods of low visibility, the highest point of the crane must be marked by a red obstruction light. Crews must be prepared to remove equipment promptly if so directed.

Runway Safety Areas

Construction within the following areas is prohibited, unless required by the contract documents and is subject to approval of the Engineer.

- Within 250 feet parallel to a runway centerline
- Within 160 feet parallel to a taxiway centerline
- Within 1000 feet of the end of an active runway



Staging Area

All contractor materials, equipment and supplies shall be within the contractor's designated staging area. All staging areas shall be marked, debris boxes covered and area kept neat and clean of debris.

For equipment that must remain in the work area, the following conditions must be met:

- Be located outside of the runway/taxiway safety and obstruction free areas.
- Be marked with lighted barricades around the equipment perimeter with a spacing of no more than 10 feet.
- Be coordinated at least 48 hours in advance with the Engineer.
- The highest point of the equipment marked and lit with a red flashing/steady burning omnidirectional obstruction light.

Barricades & Lighting

The perimeters of the actual work areas, all uneven surfaces, mounds and excavations shall be adequately barricaded with low level barricades and/or Type II barricades and lighted with omnidirectional flashing red lights to prevent intrusion by taxiing aircraft, equipment and vehicles. Low profile barricades shall be supplemented with flashing high intensity red lights and two (2) orange flags at least 20" x 20" square and made and installed so that they are always in the extended position and properly oriented. Low level barricades shall be orange and white in color and shall be eight (8) feet in length and ten (10) inches in height. All cones and other marking devices must be lighted or equipped with reflectors during periods of darkness as directed by the City of Coolidge.

All barricades and cones must be maintained and kept in proper working order by the Contractor. All burnt out lights or inoperative batteries must be replaced immediately. Barricades and cones must remain upright at all times.

The placement of sandbags on barricades may be required in situations of adverse weather. In addition, the contractor must keep an adequate supply of extra barricades, lights and batteries on site. Escorts for barricade maintenance must be provided by the contractor or coordinated in advance with Airport Operations.

Only red, battery powered, omnidirectional lights are acceptable within the AOA of the airport.

Trenches and Excavations

Contractors shall close trenches located within active safety areas at the end of each workday. No open trenches or excavations will be allowed within the following active safety areas without prior coordination and approval with the Engineer:

- Within 250 feet parallel to a runway centerline (trenches/excavations within 200 feet of a runway centerline require a runway closure which are subject to strict controls).
- Within 110 feet parallel to a taxiway centerline.
- Within 1000 feet of the end of a runway.
- Open trenches not to exceed 500 feet in length at any one time.
- Spoils from excavations are to be placed on the runway/taxiway side that is closest to the trench.
- Spoils length not to exceed 500 feet in length at any one time.



- Spoil height is not to exceed 4 feet or any height that would cause a visual obstruction.
- Spoils not returned to the trench or removed from the worksite are to be properly marked with lighted barricades with a spacing of no more than 10' or that to properly delineate the trench.

Stockpiled Material

Stockpiled materials are allowed only within the contractor's designated stockpile location or staging areas.

- Remove daily all stockpiled material from within aircraft movement areas, unless otherwise directed by the Engineer.
- No excavated or stored materials may remain within active runway or taxiway safety areas and object free zones.
- Stockpiled material may be located within the Air Operations Area only upon prior coordination and approval of the Engineer.

Deliveries

Delivery trucks must be properly escorted in order to proceed inside the Restricted Area to their intended area.

Haul Trucks

Transient haul truck drivers are required to check in with the contractor. The driver shall be issued an orange/white checkered flag to be mounted on the highest point of the truck; and shall be returned to the contractor upon check out. Advise the driver to remain on the marked haul route and follow the appropriate signs to the intended work area. At no time shall a driver unfamiliar with the worksite be allowed to deviate from the marked haul route.

Weapons

No person, except a peace officer, authorized air carrier employee, airport employee or a member of an armed force of the United States on official duty, shall carry any weapon, explosive, or inflammable material on or about his person, openly or concealed, in the Restricted Area of the airport without the written permission of the Executive Director or Director of Operations. A weapon includes all those listed in Section 13-301, Arizona Revised Statutes. No person shall furnish, give, sell, or trade a weapon on airport property.

Contractor Responsibilities

- Contact the City of Coolidge and the contractor Foreman of any security violation or threat to airport safety. Report any failure of radio or back-up equipment immediately.
- Assure that all authorized contractor employees or suppliers use designated haul route and staging areas.
- The contractor must maintain and provide to the Engineer a log detailing the contract number, the airfield access point used, and all authorized and anticipated subcontractors and suppliers that will be requiring entry.
- The contractor must furnish a sufficient number of flags for transient vehicles such as concrete or asphalt trucks entering the Restricted Area.



120.04 MEASUREMENT AND PAYMENT

Measurement and payment for Airside Traffic Control shall be by the lump sum, and shall include full compensation for furnishing all labor, materials, barricades (low level and vertical panels), red solar LED obstruction lights, power vacuum sweepers, placement and removal of owner furnished temporary airside traffic control (low level barricades), vehicle and equipment markings, training for all construction personnel, tools, equipment, flagmen, cell phones, and incidentals to safely control traffic and provide the proper security for the Coolidge Municipal Airport.

Partial payments will be made uniformly over the contract time, provided that the work under airside traffic control is maintained satisfactorily to the approval of the City of Coolidge and the Engineer.

Payment will be made under:

Item GP-120.1 Airside Safety and Security/Traffic Control - per lump sum



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ITEM D-100 DRYWELLS

DESCRIPTION

100.1.1 DRYWELLS

Construction shall consist of furnishing all materials and constructing drywells in places detailed in plans. The drywells should be constructed per Detail 1, Sheet C7.2 in the plans.

100.1.2 DRYWELL TESTING

The Contractor is made aware that the total number of drywells shown in the plans may not be installed/constructed. The total number of drywells will be based on infiltration test results taken from initial drywell installation. The infiltration results shall be taken by the drywell manufacturer and shall be provided to the Engineer and Contractor as soon as possible. The Engineer shall determine the final number of drywells required to be installed. The Contractor shall not construct any additional drywell systems without prior approval of the Engineer.

100.1.3 MEASUREMENT

Each drywell installed shall be measured as a complete unit.

100.1.4 PAYMENT

Payment will be made at the contract unit price for each accepted drywell installed in place and fully operational with post-construction performance testing accepted by the Engineer. The final number of drywells will be determined by the engineer and will be based on the infiltration test results. The Contractor is made aware that some of the drywells under this item may not be installed with this project.

Payment will be made under:

Item D-100-1.4 Drywell – per Each

END OF ITEM D-100



304-2.3 Cementitious additives. Pozzolanic and slag cement may be added to the CTB mix. If used, each material must meet the following requirements:

a. Pozzolan. Pozzolanic materials must meet the requirements of ASTM C618, Class F, or N with the exception of loss of ignition, where the maximum shall be less than 6%.

b. Slag Cement. Slag shall conform to ASTM C989, Grade 80, 100, or 120.

304-2.4 Water. Water used in mixing or curing shall be potable, clean and free of oil, salt, acid, alkali, sugar, vegetable, or other deleterious substances injurious to the finished product.

304-2.5 Curing materials. For curing CTB placed under HMA pavement, use emulsified asphalt conforming to one of the types and grades in the table below.

304-2.6 Sand blotter. Sand shall be applied, when required, to prevent tracking of the emulsion curing materials. The sand material shall be clean, dry, and non-plastic.

Emulsified Asphalt Curing Material

Type and Grade	Specification	Application Temperature	
Emulsified Asphalt			
RS-1, SS-1	ASTM D977	75 – 130°F	25 - 55°C
CRS-1	ASTM D2397	75 - 130°F	25 - 55°C

COMPOSITION OF MIXTURE

304-3.1 General. The CTB material shall be composed of a mixture of aggregate, cementitious material, and water. Fly ash or slag cement may be used as a partial replacement for Portland cement.

304-3.2 Mix design. The mix design shall use a cement content that, when tested in the laboratory per ASTM D1633, produces a 7-day compressive strength between 400 pounds per square inch (2758 kPa) minimum and 800 pounds per square inch (5516 kPa) maximum. The 28-day strength shall not exceed 1000 pounds per square inch (6895 kPa).

The mix design shall include a complete list of materials, including type, brand, source, and amount of cement, fine aggregate, coarse aggregate, water, and cementitious additives.

Should a change be made in aggregate sources or type of cement, or if cementitious additives are added or deleted from the mix, production of the CTB mix shall be stopped and a new mix design shall be submitted.

304-3.3 Submittals. At least 30 days prior to the placement of the CTB, the Contractor shall submit certified test reports to the Engineer for those materials proposed for use during construction, as well as