

285 SE Inner Loop Suite 110 Georgetown, TX 78626

TEL 512.485.0020 FAX 512.485.0021

www.GarverUSA.com

**DATE:** October 26, 2023

TO: Mr. Mike Wilson

Killeen-Fort Hood Regional Airport 8101 Clear Creek Rd, Box C

Killeen, Texas 76549

**PROJECT:** KFHRA Taxiway B Rehabilitation Project

City of Killeen Bid No. 22-24

### **DESCRIPTION OF CHANGES TO THE CONTRACT:**

Change Order No. 003 makes the following changes, see attached for detailed terms of the change order.

- A. Replacing existing electrical infrastructure and signage that is currently not being replaced in the project, along with additional Contract Time awarded based on delivery of electrical equipment.
- B. Reduction of project quantities for items of work completed and expected.

### Justification:

Adding work to replace the existing airfield owned guidance signs allows the utilization of available funding to improve additional electrical systems connected to Taxiway B.

1)	Original Contract Sum	\$ 9,525,487.13
2)	Net Changes by previously approved Change Orders	\$ 1,004,287.50
3)	Current Contract Amount (1+2)	\$ 10,529,774.63
4)	Total Change Order No. 003 Baes Bid A Added	\$ 328,900.00
5)	Total Change Order No. 003 Base Bid A Reduced	\$ (541,006.07)
6)	Total Change Order No. 003 Add. Alt. 2 Reduced	\$ (59,310.75)
7)	Total Change Order No. 003	\$ (271,416.82)
8)	New Contract Sum (3+7)	\$ 10,258,357.81
9)	Increase/Decrease to Contract Amount	<b>-</b> 2.58%

10) Original Contract Time

Net Time Changes by Previously Approved Change Orders Time Extension For Change Order #003

**New Contract Time** 

280 Calendar Days 0 Calendar Days 181 Calendar Days 368 Calendar Days

Signature/Date:

Jacob Green PE Project Manager

Attachments: Construction Contract Change Order No. 3



			Cons	truction	Contr	act Chang	e Orde	r			
Project:	3 Rehabilita	ation				Change Orde	r No.	3			
Taxiway B Rehabilitation Killeen-Fort Hood Regional Airport Garver Job No. 22A06081				Date Prepared Prepared by:	d:	October 11, 2023  Jacob Green, P.E.					
Owner: City of Kil	leen Aviatio	on Department				Contractor:	nc.	<u> </u>			
8101 S Clear Creek Rd Killeen, TX 76549						P.O. Box 299, Gatesville, TX		rial Dr., Suite B			
-		k Included in Contr	act								-
	ation of Tax		ndividual Changes as: A, B, C, D, etc.)								
			signs, transformers, and concrete bases and grounding. Replace Sheets E-001, E								
Α.	Substantia	al Completion shall be	e awarded such that Substantial Completie e defined as all work completed except for oly if work is not complete within the revise	r final pavem	ent markir						
	based upo	on delivery of the add	will be awarded for the Substantial Comp itional signage. Substantial Completion st tial Completion. Liquidated Damages as o	nall be define	ed as all wo	ork completed e	xcept for se	eeding and sod	ding and punchlist	items.15 Calendar D	ays will be allowed for
В.			for items of work completed and expected								
	Attachmer Bid	nts: Plan sheets E-00	1, E-103, E-105, E-109, E-111, E-203, E-	205, E-209, Unit	E-211, AN Original	ID E-508 Contract	Revised	Revised	Original	Revised	Net Cost
Contract	Item	Spec	Item	of	Contract	1	Contract	Unit	Contract	Contract	for this
Changes	No.	No.	Description  EXISTING BASE MOUNTED	Measure	Quantity	Price	Quantity	Price	Cost	Cost	Change Order
	A-5	SS-301-5.3	GUIDANCE SIGN, REMOVED  L-858(L) BASE MOUNTED, SIZE 3.	EA	6	\$2,325.00	26	\$2,325.00	\$13,950.00	\$60,450.00	\$46,500.00
	A-51	L-125-5.1	1-MODULE GUIDANCE SIGN, INSTALLED	EA	1	\$10,800.00	5	\$10,800.00	\$10,800.00	\$54,000.00	\$43,200.00
А	A-52	L-125-5.2	L-858(L) BASE MOUNTED, SIZE 3, 2-MODULE GUIDANCE SIGN, INSTALLED	EA	2	\$13,950.00	6	\$13,950.00	\$27,900.00	\$83,700.00	\$55,800.00
	A-53	L-125-5.3	L-858(L) BASE MOUNTED, SIZE 3, 3-MODULE GUIDANCE SIGN, INSTALLED	EA	3	\$14,450.00	15	\$14,450.00	\$43,350.00	\$216,750.00	\$173,400.00
	A-55	CC-03-1	ADDITIONAL MOBILIZATION FOR SIGNAGE	LS	0	\$0.00	1	\$10,000.00	\$0.00	\$10,000.00	\$10,000.00
B - REDUCED QUANTITIES, SEE ATTACHED			-	-	- Summ	- nation of Cost	\$3,379,308.25 \$3,461,358.25	\$2,778,991.44 \$3,143,441.44	(\$600,316.82) (\$271,416.82)		
Estimate	d Project (	Cost				Time Change			, , ,		, , , ,
Original	Contract A	mount				Contract Start		olondor dovo)			October 3, 2022
•	Contract A	ed Changes				Original Contract Time (calendar days)     Previously Approved Changes (calendar days)				280 0	
	ange Order			2) Additional Contract Time This Change Order (calendar days)				121			
New Co	ntract Amo	unt		58,357.81	11 Suspended Time (calendar days) New Construction Substantial Completion Date New Construction Final Completion Date				November 8, 2023		
									December 1, 2023		
						Additional Time for Signage Replacement					
						Contract Start Date Original Contract Time (calendar days)				TBD 60	
						Previously Approved Changes (calendar days) Additional Contract Time This Change Order (calendar days) Suspended Time (calendar days) New Construction Completion Date					0
											0
					TBD						
			IAL CONT	TRACT PROVISIONS AND PREVIOUS CHANGE ORDERS							
ISSUED FOR REASONS INDICATED ABOVE Engineer: Garver						Project Manager 10/23/2023					
			Engineer's Signature			Title Date					
ACCEPTED BY CONTRACTOR			Dawna L. James			Contract Specialist 10/12/23					
Contractor's Signature			Contractor's Signature		_	Title Date			=		
APPROV OWNER	ED BY		Kent Cagle			City Ma	nager				



### **Construction Contract Change Order**

Project:

Taxiway B Rehabilitation

Date Prepared:

Change Order No.

Killeen-Fort Hood Regional Airport

October 11, 2023 Jacob Green, P.E.

Garver Job No. 22A06081

Prepared by: Contractor:

City of Killeen Aviation Department 8101 S Clear Creek Rd Killeen, TX 76549 TTG Utilities, Inc.

P.O. 8ox 299, 305 Memorial Dr., Suite B
Gatesville, TX 76528

**Description of Work Included in Contract** Rehabilitation of Taxiway B

Changes and Reasons Ordered (List Individual Changes as: A, B, C, D, etc.)

B. Reduction of project quantities for items of work completed and expected.

	Bid		Bid	Unit	Original	Contract	Revised	Revised	Original	Revised	Net Cost
Contract	Item	Spec	<b>I</b> tem	of	Contract	Unit	Contract	Unit	Contract	Contract	for this
Changes	No.	No.	Description	Measure	Quantity	Price	Quantity	Price	Cost	Cost	Change Order
	A-1	SS-212-5.1	BIAXIAL GEOGRID	S.Y.	5,299	\$4.00	2,965	\$4.00	\$21,196.00	\$11,860.00	(\$9,336.00)
ļ	A-7	SS-302-3.1	POWER UTILITY ALLOWANCE	ALLOW	1	\$175,000.00	0	\$175,000.00	\$175,000.00	\$0.00	(\$175,000.00)
	A-8	SS-305-5.1	DIRECTIONAL BORING, 4-WAY 2- INCH C POLYETHYLENE CONDUITS	L.F.	140	\$355.00	104	\$355.00	\$49,700.00	\$36,920.00	(\$12,780.00)
	A-14	D-701-5.1	18" REINFORCED CONCRETE PIPE (CLASS IV)	L.F.	164	\$109.00	88	\$109.00	\$17,876.00	\$9,592.00	(\$8,284.00)
		D-705-5.1a	4" PERFORATED CORRUGATED HDPE UNDERDRAIN PIPE	L.F.	1,188	\$25.00	1,100	\$25.00	. ,	\$27,500.00	(\$2,200.00)
L	A-20	F-162-5.1	TEMPORARY CHAIN-LINK FENCE	L.F.	418	\$60.00	387	\$60.00	\$25,080.00	\$23,220.00	(\$1,860.00)
	A-22	P-101-5.1	PAVEMENT SECTION REMOVAL (25" DEPTH)	S.Y.	6,636	\$19.50	6,284	\$19.50	\$129,402.00	\$122,538.00	(\$6,864.00)
	A-24	P-101-5.3	ASPHALT MILLING TRANSITION (0"-2")	S.Y.	2,313	\$6.25	2,202	\$6.25	\$14,456.25	\$13,762.50	(\$693.75)
Ļ	A-25	P-101-5.4	ASPHALT MILLING (2")	S.Y.	18,119	\$4.00	17,255.89	\$4.00	\$72,476.00	\$69,023.56	(\$3,452.44)
L	A-26	P-101-5.5	FULL DEPTH PAVEMENT REPAIR	S.Y.	750	\$155.00	125	\$155.00	\$116,250.00	\$19,375.00	(\$96,875.00)
	A-29	P-152-4.2	UNSUITABLE EXCAVATION	C.Y.	100	\$25.00	0	\$25.00	\$2,500.00	\$0.00	(\$2,500.00)
	A-30	P-154-5.1	TEMPORARY ACCESS ROAD SUBBASE COURSE (8")	S.Y.	3,801	\$15.50	2,843	\$15.50	\$58,915.50	\$44,066.50	(\$14,849.00)
	A-31	P-209-5.1	CRUSHED AGGREGATE BASE COURSE (13")	S.Y.	7,287	\$56.00	6,336	\$56.00	\$408,072.00	\$354,816.00	(\$53,256.00)
L	A-32	P-401-8.1	ASPHALT SURFACE COURSE	TON	8,449	\$168.00	7,740	\$168.00	\$1,419,432.00	\$1,300,320.00	(\$119,112.00)
	A-42	T-904-5.1	SODDING	S.Y.	11,049	\$7.50	8,286.75	\$7.50	\$82,867.50	\$62,150.63	(\$20,716.88)
В	A-44	L-108-5.2	NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS	L.F.	5,400	\$3.90	4,970	\$3.90	\$21,060.00	\$19,383.00	(\$1,677.00)
	A-45	L-110-5.1	CONCRETE ENCASED ELECTRICAL DUCT BANK, 4-WAY 2-INCH C	L.F.	125	\$153.00	115	\$153.00	\$19,125.00	\$17,595.00	(\$1,530.00)
	A-46	L-110-5.5	NON-ENCASED ELECTRICAL CONDUIT, 1-WAY 2-INCH C	L.F.	3,300	\$60.00	3,133	\$60.00	\$198,000.00	\$187,980.00	(\$10,020.00)
	AA2-4	P-209-5.2	CRUSHED AGGREGATE BASE COURSE (16")	S.Y.	6145	\$55.00	5,852.00	\$55.00	\$337,975.00	\$321,860.00	(\$16,115.00)
	AA2-7	L-108-5.2	NO. 6 AWG, SOLID, BARE COPPER COUNTERPOISE WIRE, INSTALLED IN TRENCH, ABOVE THE DUCT BANK OR CONDUIT, INCLUDING CONNECTIONS/TERMINATIONS	L.F.	3300	\$3.75	1,335	\$3.75	\$12,375.00	\$5,006.25	(\$7,368.75)
	AA2-8	L-110-5.3	FLOWABLE FILL ENCASED ELECTRICAL CONDUIT, 1-WAY 2- INCH C	L.F.	2700	\$53.00	2,491	\$53.00	\$143,100.00	\$132,023.00	(\$11,077.00)
	AA2-11	L-110-5.7	CONCRETE ENCASEMENT OF EXISTING ELECTRICAL DUCT BANK	L.F.	110	\$225.00	0	\$225.00	\$24,750.00	\$0.00	(\$24,750.00)
							Sumn	nation of Cost	\$3,379,308.25	\$2,778,991.44	(\$600,316.82)

	SYMBOL	ITEM DESCRIPTION	ABBREVIATIONS	CONSTRUCTION NOTES:
		EXISTING AIRFIELD CIRCUIT(S) AND CONDUIT TO REMAIN, UON	AFG ABOVE FINISHED GRADE	THE CONTRACTOR SHALL STAKE THE AIRFIELD LIGHTING SYSTEMS, PRIOR TO INSTALLATION OF ANY TRENCH, CABLE, OR LIGHTING APPARATUS, THE INTENT IS TO STAKE THE INSTALLATION AT
	*	EXISTING ARFIELD CIRCUIT(s) TO BE REMOVED AND CONDUIT TO BE ABANDONED	AOA AIRCRAFT OPERATIONS AREA	THE LOCATIONS INDICATED, NOTING ANY DEVIATION FROM PLAN DIMENSIONS TO THE ENGINEER PROPERTY OF A SHALL OBTAIN THE SERVICES OF AN EXPERIENCED AND A SHALL OBTAIN THE SERVICES OF AN EXPERIENCED
	+	NEW ELECTRICAL CONDUIT, 1-MAY 2°C, WITH NEW ELECTRICAL CIRCUIT(S), UON (DETAIL 1, SHEET E-501)	OBSTACLE FREE ZONE	AND LICENSED SURVETOR TO FERFORM THIS WORK.  2. THE ENGINEER WILL PROVIDE ELECTRONIC CADD FILES TO THE CONTRACTOR FOR THIS STAKING.
		EXISTING AIRFIELD ELECTRICAL DUCT BANK TO REMAIN, NUMBER AND SIZE OF CONDUIT AS INDICATED	RSA RUNWAY SAFETY AREA TSA TAXIWAY SAFETY AREA	WORK. THE CONTRACTOR SHALL STAKE THE ITEMS AND HIS SIRVEYOR SHALL PROVIDE A CADD FILE SUBMITTAL. THE ENGINEER WILL COORDINATE AND PROVIDE FIRECTIONS ON ANY AUTISTMENTS INFESSARY TO MET EXISTING.
	*	EXISTING UNDERGROUND UTILITY CONDUCTORS TO BE REMOVED AND ELECTRICAL DUCT BANK TO BE ABANDONED	PC POINT OF CURVATURE	FIELD CONDITION REQUIREMENTS AND COMPLY WITH FAA ADVISORY CIRCULAR REQUIREMENTS ON THE LAYOUT AND SPACING OF EQUIPMENT.
	3W-2*C	<ul> <li>NEW DIRECTIONAL BORE, NUMBER AND SIZE OF CONDUIT AS INDICATED (DETAIL 4, SHEET E-502)</li> </ul>	POLYETHY LENE CONDUIT POINT OF TANGENCY	<ol> <li>THE CONTRACTOR AND HIS SURVEYOR SHALL THEN MAKE ANY ELECTRONIC CADD FILE SPACING ADJUSTMENTS AND FOR FIELD STAKING ADJUSTMENTS PRIOR TO INSTALLATION AT NO</li> </ol>
	3W-2°C	<ul> <li>NEW CONCRETE ELECTRICAL DUCT BANK, NUMBER AND SIZE OF CONDUIT AS INDICATED (DETAIL 1, SHEET E-502)</li> </ul>	DEB DIRECT EARTH BURIED WP MICATHEDEDOOR	
	3W-2"C	NEW NON-ENCASED ELECTRICAL DUCT BANK, NUMBER AND SIZE OF CONDUIT AS INDICATED (DETAIL 2. SHEET E-502)	UNLESS OTHERWISE NOTED	<ol> <li>THE CONTRACTOR SHALL VERIFY EXACT PAVEMENT EDGE DIMENSIONS WITH THIS INTIAL SURVEY WORK.</li> </ol>
	- B	EXISTING GUIDANCE SIGN PANEL TO REMAIN, UON		<ol> <li>THE CONTRACTOR SHALL FIELD MARK AND IDENTIFY TAXIWAY POINT OF TANGENCY (PT), POINT OF CURVATURE (PC), AND INTERSECTION POINTS (IP) LOCATIONS AS REQUIRED IN ORDER TO</li> </ol>
		NEW GUIDANCE SIGN PANEL (DETAIL 1, SHEET E-508)		PERFORM TAXIWAY EDGE LIGHT SPACING AND SURVEYING WORK.
	0	EXISTING BASE MOUNTED L-861T TAXIWAY EDGE LIGHT TO REMAIN, UON		6. THE EXISTING AND THE PROPOSED LOCATIONS OF LIGHTING CABLES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING AND IDENTIFYING THE EXISTING
	×	EXISTING BASE MOUNTED L-861T TAXIWAY EDGE LIGHT TO BE REMOVED (DETAIL 2, SHEET E-506)		LIGHTING CIRCUITS TO DETERMINE THEIR EXACT ROUTING. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAING THE LIGHTING SYSTEMS IN A WORKING COUNTIND UNTIL THE NEW INCHIT IT HE CANTRACTOR SHALL
	Ø	NEW BASE MOUNTED L-861T(L) TAXIWAY EDGE LIGHT (DETAIL 2, SHEET E-508 & DETAIL 2, SHEET E-510)		PROACTIVELY AND EXPEDITIONS TO THE LIGHTING CIRCUITS. COORDINATE DENTIFICATION PERFORMING ANY MODIFICATIONS TO THE LIGHTING CIRCUITS. COORDINATE IDENTIFICATION
	0	EXISTING BASE MOUNTED L-852T IN-PAVEMENT HELIPAD EDGE LIGHT TO REMAIN, UON		WORK WITH THE OWNER AND ENGINEER AND MAKE ALL CORRECTIONS, ADDITIONS, ETC. ON THE AS-BUILT DRAWINGS.
	×	EXISTING BASE MOUNTED L-852T IN-PAVEMENT HELIPAD EDGE LIGHT TO BE REMOVED (DETAIL 3, SHEET E-506)		7. THE CONTRACTOR SHALL BE EXTREMELY CAREFUL WHILE EXCAVATING IN THE AREA OF LIGHTING CIRCLITS, ANY COBIE OR CONDUIT / DUCT WHICH IS NOTED OR DANGED DURING EXCAVATION CANNER. OF DANGED OF THE FEATURE AND CANNER.
	0	EXISTING BASE MOUNTED L-852T IN-PAVEMENT HELIPAD EDGE LIGHT, RE-INSTALLED ON NEW BASE (DETAIL 1, SHEET E-509)		STATE OF THE TABLE AND EXPENDING AND AND THE THROUGH TO CANGE AND CONTROLL OF THE TABLE ACED, A SPICE OR CONDUIT DUCT REPLACED, A SPICE OR CONDUIT DUCT MARKER SHALL BE INSTALLED AT ALL SPICE OR OTHER REPAIR LOCATIONS MORE THAN 2 AWAY FROM A LIGHT, SIGN, HANDHOLE, MANHOLE, OR
		EXISTING BASE MOUNTED L-862 RUNWAY EDGE LIGHT TO REMAIN, UON		JUNCTION STRUCTURE. ALL REPAR AND LOR REPLACEMENT WORK AND MATERIALS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE POWNER AND ENGINER.
	0	EXISTING BASE MOUNTED L-8500 IN-PAVEMENT RUNWAY EDGE LIGHT TO REMAIN, UON		8. FOR NEW L-824C CABLE INSTALLED ON THIS PROJECT. THE BASIS-OF-DESIGN OUTSIDE DIAMETER
	×	EXISTING BASE MOUNTED L-850C IN-PAVEMENT RUNWAY EDGE LIGHT TO BE REMOVED (DETAIL 3, SHEET E-506)		HAN INVEXUENTS US OFFINITION OF THE CONTRACT OF USES INJUSTIC CARLE WITH A LANGER OUTSIDE DIAMETER, ANY CONDITION OF DUCH BANK INDREASES IN SIZE NECESSARY TO MAINTAIN CABLE FILL CODE COMPILANCE SHALL BE INSTALLED AND PAID FOR BY THE CONTRACTOR AT NO
	٥	EXISTING BASE MOUNTED L-850C IN-PAVEMENT RUNWAY EDGE LIGHT, RE-INSTALLED ON NEW BASE (DETAIL 1, SHEET E-509)		ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER. PAYMENT WILL ONLY BE MADE AT THE BASIS—OFBIGION CONDUIT OR DUCT BANK PAY TIEM AS BANKNIN ON THE DIA MANGES CHALL BE MADERN LIED AND STATE CONTRACTOR TO INSTITE VANY STATE.
uəə.	(9)	EXISTING BASE MOUNTED DUAL L-861T TAXIWAY EDGE LIGHT		CHANGES.

## CAUTION NOTES. STAKE THE AIRFIELD LIGHTING SYSTEMS, PRIOR TO INSTALLATION OF GHTING APPARATUS, THE INTENT IS TO STAKE THE INSTALLATION AT IN OTIVING ANY DEVALTION FROM PLAN DIMENSIONS TO THE ENGINEER HE CONTRACTOR SHALL OBTAIN THE SERVICES OF AN EXPERENCED.

WUDGREGOUND LITTLE ESTS THATHEN AND ADMICENT TO THE LIMITS OF CONSTRUCTION, AN ATTAMY THE SERVING TO LOCATE THESE UTILITIES NOT THE PLANS. HOWEVER, ALL ESTS THAT LICEATIONS SHOWN, STORT THE ESTS THAT IN THE CONTRACT HE CONTRACT THE CONTRACT TO CONTRACT THE UTILITIES MAY WRITE THE CONTRACT THE CONTRACT THE CONTRACT THE CONTRACT THE CONTRACT THE CONTRACT THE THE THE CONTRACT THE THE CONTRACT TH ÷

TEXAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. REQUIRES TWO WORKING LON'S ADVANCEMENT OF THE TEXAS OF THE CALL IS STREAGERED. BECAMATHING UNDER HET EXCAMATHING UNDER CHERKE BEFORE EXCAMATHING UNDER CHECKHART BEFORE EXCAMATHING UNDER CHERKE BEFORE EXCAMATHING UNDER CHECKHART BEFORE EXCAMATHING UNDER CHERKE BEFORE EXCAMATHING UNDER CHECKHART BEFORE EXCAMATHING THE BASE AS SERVER FOR NOT IMMARTOR THIS CALL UNTILLY CONVINCITION OF THE CHECKHART BEFORE THE CALL STREAM THE CONFLACT ON THE CALL STREAM THE CALL STREAM THE CALL STREAM THE CONFLACT ON THE CALL STREAM THE CALL STREAM THE CONFLACT ON THE CALL STREAM THE CONFLACT STREAM THE CO 2

SEE SHEET G-004 FOR THE FORT HOOD DIG PERMIT PROCEDURES.

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## ELECTRICAL SAFETY NOTES:

- SERIES CIRCUITS CAN BE DANGEROUS AND / OR FATAL.
- LOCKOUT / TAGOUT PROCEDURES SHALL BE FOLLOWED.
- LIGHTING REGULATORS SHALL BE TURNED OFF, LOCKED, AND TAGGED OUT OF SERVICE BEFORE ANY WORK IS DONE ON THE SERIES CIRCUIT.
- THE ELECTRICAL RESISTANCE AND INSULATION INTEGRITY OF EACH MODIFIED CIRCUIT SHALL BE TESTED BEFORE THE CIRCUIT IS ENERGIZED.

### REMOVAL KEYED NOTES:

REMOVE EXISTING Z WIDE CONCRETE TRENCH CONTAINING EXISTING HELIAND CONDUIT AND LIGHT BASES, REMOVAL, BYLLL NOT BE RABD FOR SERRARIEV BUT SHALL BE SUBSIDARY TO THE RESPECTIVE LIGHT REMOVAL PAYTIEM.

# $\langle 2 \rangle$ REMOVE EXISTING GUIDANCE SIGN AND EXISTING BASE.

## INSTALLATION KEYED NOTES:

- (1) COUPLE NEW CONDUIT TO EXISTING CONDUIT STUB-OUT, SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS
- (2) INSTALL NEW AIRCRAFT-RATED HANDHOLE LOCATED AT EDGE OF NEW TAXIMAY SHOULDER.
- (3) INSTALL NEW GUIDANCE SIGN AND BASE.

  (4) CONNECT INVUIDANCE TION BORE TO NEW NON-ENCASED ELECTRICAL DUCT BANK.

THE CONTRACTOR SHALL PERFORM MEGGER TESTS ON EACH EXISTING SERIES CIRCUIT PRIOR TO ANY WORK ON THE ELECTRICALL SYSTEM AND EACH NEW AND EXISTING SERIES CIRCUIT AFTER THE ACCEPTANCE TEST PERIOD, MEGGER TESTING REQUIREMENTS SHALL BE SUBSIDIARY TO AND PAID FOR BY LIOSE BY ITEMS.

6

NEW L-858(L) BASE MOUNTED GUIDANCE SIGN (DETAILS 1, 2, 8, 3, SHEET E-607)

NEW AIRCRAFT RATED HANDHOLE (DETAIL 5, SHEET E-503 & DETAIL 1, SHEET E-504)

EXISTING AIRCRAFT RATED HANDHOLE TO REMAIN

EXISTING ARFIELD ELECTRICAL JUNCTION STRUCTURE TO REMAIN, UON EXISTING AIRFIELD ELECTRICAL OR TELECOMMUNICATION MANHOLE TO REMAIN, UON

EXISTING BASE MOUNTED GUIDANCE SIGN TO BE REMOVED (DETAIL 1, SHEET E-506)

EXISTING BASE MOUNTED GUIDANCE SIGN TO REMAIN, UON

EXISTING BASE MOUNTED DUAL L-852T(L) IN-PAVEMENT TAXIWAY EDGE LIGHT TO REMAIN, UON

EXISTING BASE MOUNTED DUAL L-861T TAXIWAY EDGE LIGHT TO REMAIN, UON

(6)

ALL ELECTRICAL CABLES SHALL BE CLEARLY IDENTIFIED, LABELED AND TAGGED AT ALL POINTS.
WHERE THEY ARE ANALABLE FOR CONNECTIONS OR NEPECTION, INCLUDING BUT NOT LIMITED
TO MANHOLES, HANDHOLES, PULL BOXES, LUNCTION BOXES, AND LIGHT BASES.

THE CONTRACTOR SHALL CORDINATE MITH THE OWESTE ROINEER FOR OWNERS AND BUGNIERS WITHESS OF ALL MEGGER TESTING. THE CONTRACTOR SHALL SUBMITHES NITIMAL MEGGER TEST REPORTS TO THE OWNERS AND ENGINEER PROOFT O ANY WORK ON THE ELECTRICAL SYSTEM. THIS REPORTS THALLE A PRIPOKOLD AND SONDED BY THE OWNER AND ENGINEER PRIOR TO THE CONTRACTOR PROCEEDING WITH HIS WORK.

THE CONTRACTOR SHALL CHECK THE LOAD ON EACH EXISTING REGULATOR PRIOR TO ANY WORK ON THE ELECTRICAL SYSTEM AND ON EACH NEW AND EXISTING REGULATOR AFTER THE ACCEPTANCE TEST PERROD.

12 5,

- CONNECT NEW L-861T TAXIWAY EDGE LIGHT TO NEW UNDERDRAIN SYSTEM. (2)
- CONCRETE ENCASE EXISTING ELECTRICAL DUCT BANK TO 3' PAST NEW PAVEMENT EDGE, SEE DETAIL 3, SHEET E-502. (9)
- $\left\langle 7\right\rangle$  INSTALL NEW AIRFIELD CONDUCTORS IN EXISTING ELECTRICAL CONDUIT.
  - CONNECT NEW LIGHT BASE TO EXISTING CONDUIT. ©
- THIS WORK SHALL BE PERFORMED BY DOMINION UTILITY. CONTRACTOR TO COORDINATE AS NECESSARY TO FACILITATE WORK PERFORMED BY DOMINON 6
- COUPLE NEW DUCT BANK TO EXISTING DUCT BANK. (2)

LOCKOUT / TAGOUT AND CONSTANT CURRENT REGULATOR CALIBRATION PROCEDURES SHALL BE PAID FOR BY SS-300 PAY ITEMS UNLESS OTHERWISE NOTED.

4,

THE CONTRACTOR SHALL CALIBRATE EACH NEW AND EXISTING REGULATOR FOLLOWING THE PERFORMED WORK.

CONDUITS AND DUCTS UNDER NON-PAVED AREAS SHALL BE NON-ENCASED, UNLESS OTHERWISE NOTED.

CONDUITS AND DUCTS UNDER PAVED AREAS SHALL BE CONCRETE ENCASED.

DURING CONSTRUCTION PROTECT AL EQUIPMENT, DUCTS, CONDUITS, CABLEE, ETC, THAT ARE TO REBURNATION HANCE, WHERE SETS INTO RETENS ARE CUT; BROKEN, NO BUMAGED. THE CONTRACTOR SHALL REPLACE OR REPAIR PROACTIVELY AND EXPEDITIONS. YI HE ITEMS WITH THE SAME. THE OF ORGANIA WATERIAL AND CONSTRUCTION OR BETTER AT IN A DISTITIONAL.

nce	CHANGE ORDER 3	10/3/23	2
DWM	ISSUE FOR CONSTRUCTION	10/11/22	ı
BA	DESCRIPTION	3TAG	ΈΛ:
BA	DESCRIPTION	BIAG	7





JOB NO.: 18181083 DATE: OCT 2022 DESIGNED BY: JKS DRAWN BY: JAH

SHEET 80 E-001

File L'2018/1818 1085 - Killeen-Fort Hood Airport TW B RehabiChawngsCRK-TWB-E001-ELdwg Last Save; 10/3/2023 451 PM Last saved by: JOGieen Last polited by: Green, Jacob C. Plot Sible, RECmono, dh. Plot Scale, 1/2,5849 Piol Date; 10/4/2023 11,42 AM Pioliter used, None

EXISTING AIRFIELD ELECTRICAL MANHOLE, ADJUSTED TO NEW GRADE (DETAIL 4, SHEET E-505)

DEMOLISH EXISTING AIRTIELD ELECTRICAL OR TELECOMMUNICATION MANHOLE (DETAIL 1, SHEET E-511)

NEW AIRCRAFT RATED MANHOLE (DETAILS 2, 3, & 4, SHEET E-511)

3 ■

DRAINABLE AGGREGATE (DETAIL 2, SHEET E-508) NEW DUCT MARKER (DETAIL 3, SHEET E-503)

NEW CONDUIT STUBOUT

3/4" x 10' COPPER CLAD STEEL GROUND ROD

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