AGENDA
ITEM

15

AGENDA STAFF REPORT

DATE: July 15, 2020

TO: Mayor and City Council

APPROVED BY: David B. Dale, City Manager

PREPARED BY: Lilliana Falomir, Public Works Manager – Administrative

SUBJECT: Reject all Bids Received for the Calexico International Airport Taxiway A Rehabilitation FAA AIP No.: 3-06-0034-018-2020.

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Recommendation:

Reject all Bids Received for the Calexico International Airport Taxiway A Rehabilitation FAA AIP No.: 3-06-0034-018-2020.

Background:

The Calexico International Airport each year is entitled $150,000 from the Federal Aviation Administration (FAA) for airport improvement projects. In 2018, the Calexico International Airport received $236,409.00 for the Design Phase of the Taxiway A Rehabilitation Project at the Calexico International Airport. The project consisted of reconstructing the pavement of the full length parallel taxiway and adjacent interfacing pavement areas with a completely new asphalt concrete pavement section, and other incidental improvements such as shoulder and infield grading, installation of drainage improvements, airfield lights and signs relocations, adjustment to grade, pavement markings, perimeter fence relocation, and other miscellaneous items.

On April 23, 2020, AE Consulting completed the plans and specifications for the Taxiway A Rehabilitation Project and on April 27, 2020, Public Works staff began advertising said project in the City's website and Imperial Valley Press.

Discussion & Analysis:

On May 27, 2020, the Office of the City Clerk received four (4) bids:

#	Company	Base Bid	Alternate Bid
1.	Vance Corporation	$3,164,854.00	$65,042.00
2.	Pyramid Construction and Aggregate, Inc.	$3,499,618.02	$68,136.00
3.	Hazard Construction	$3,644,578.75	$127,500.00
4.	Granite Construction	$4,414,144.00	$147,900.00

AGENDA ITEM 15

On June 4, 2020, Public Works staff submitted the bid tabulation to Federal Aviation Administration (FAA) for review and approval. On June 17, 2020, FAA staff informed Public Works staff that FAA was not able to allocate the full amount requested for FY 2020; therefore the City would need to scale down the project and/or wait until FY2021 for possible funding. For this reason, Public Works staff is requesting that the City Council of the City of Calexico reject all bids received for the Calexico International Airport Taxiway A Rehabilitation FAA AIP No.: 3-06-0034-018-2020.

Fiscal Impact:

None at this time.

Coordinated With:

Federal Aviation Administration (FAA).

Attachment(s):

1. Bid Tabulation Sheet.
2. Invitation for Bids.
3. Plan Holder's List.
4. Plans for Calexico International Airport Taxiway A Rehabilitation FAA AIP No.: 3-06-0034-018-2020

CITY OF CALEXICO
TAXIWAY A REHABILITATION FAA AIP NO. 3-06-0034-018-200
UNOFFICIAL BID RESULTS

Bid Opening: April 30, 2020
Time: 2:00p.m.
Location: City Council Chambers, City Hall, 608 Heber Avenue, Calexico, CA

				Engineer's Estimate		Vance Corporation		Pyramid Construction & Aggregate Inc.		Hazard Construction		Granite Construction	
Item No.	Description	Unit	Approx. Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1	75,000.00	75,000.00	80,000.00	80,000.00	14,000.00	14,000.00	125,000.00	125,000.00	125,000.00	125,000.00
2	PREPARATION OF THE SWPPP	LS	1	5,000.00	5,000.00	6,000.00	6,000.00	8,000.00	8,000.00	5,000.00	5,000.00	2,100.50	2,100.50
3	DUST CONTROL PLAN	LS	1	2,000.00	2,000.00	6,500.00	6,500.00	3,000.00	3,000.00	5,000.00	5,000.00	200.00	200.00
4	IMPLEMENTATION OF THE SWPPP	LS	1	30,000.00	30,000.00	18,500.00	18,500.00	10,000.00	10,000.00	50,000.00	50,000.00	167,190.00	167,190.00
5	MOBILIZATION	LS	1	138,000.00	138,000.00	328,000.00	328,000.00	118,500.00	118,500.00	180,000.00	180,000.00	215,000.00	215,000.00
6	INSTALL AND MAINTAIN BARRICADES PHASE 1	LF	368	17.00	6,256.00	48.00	17,664.00	100.00	36,800.00	100.00	36,800.00	45.00	16,560.00
7	INSTALL AND MAINTAIN BARRICADES PHASE 2	LF	200	17.00	3,400.00	16.00	3,200.00	100.00	20,000.00	100.00	20,000.00	21.00	4,200.00
8	PAVEMENT SAWCUTTING	LF	1,585	3.50	5,547.50	3.00	4,755.00	5.00	7,925.00	5.00	7,925.00	2.00	3,170.00
9	AC PAVEMENT REMOVAL - PHASE 1	SY	31,378	2.50	78,445.00	3.00	94,134.00	5.37	168,499.86	7.50	235,335.00	2.00	62,756.00
10	AC PAVEMENT REMOVAL - PHASE 2	SY	4,784	3.50	16,744.00	3.50	16,744.00	5.37	25,690.08	8.50	40,664.00	3.50	16,744.00
11	AC PAVEMENT MILLING - PHASE 1	SY	91	50.00	4,550.00	13.00	1,183.00	203.27	18,497.57	50.00	4,550.00	8.00	728.00
12	AC PAVEMENT MILLING - PHASE 2	SY	31	75.00	2,325.00	38.00	1,178.00	600.00	18,600.00	100.00	3,100.00	23.00	713.00
13	TIE-DOWN ANCHOR REMOVAL	EA	51	175.00	8,925.00	255.00	13,005.00	360.00	18,360.00	125.00	6,375.00	110.00	5,610.00
14	ABANDONED FENCE POST FOOTING REMOVAL	EA	22	150.00	3,300.00	121.00	2,662.00	133.00	2,926.00	125.00	2,750.00	127.00	2,794.00
15	CHAIN LINK FENCE REMOVAL COMPLETE	LF	822	65.00	53,430.00	20.00	16,440.00	22.00	18,084.00	20.00	16,440.00	34.00	27,948.00
16	CHAIN LINK FENCE REMOVAL NO FOOTINGS	LF	46	40.00	1,840.00	15.75	724.50	20.00	920.00	15.00	690.00	112.00	5,152.00
17	PCC LANDING/SLAB REMOVAL	SF	67	20.00	1,340.00	40.00	2,680.00	140.00	9,380.00	10.00	670.00	21.00	1,407.00
18	TREE WELL REMOVAL	EA	2	750.00	1,500.00	1,100.00	2,200.00	100.00	200.00	350.00	700.00	700.00	1,400.00
19	FLUSH CONCRETE CURB REMOVAL	LF	64	15.00	960.00	28.00	1,792.00	31.25	2,000.00	20.00	1,280.00	44.00	2,816.00
20	WHEEL STOP REMOVE AND REINSTALL	EA	3	100.00	300.00	94.00	282.00	200.00	600.00	150.00	450.00	345.00	1,035.00
21	METAL CONTAINER REMOVE AND REINSTALL	LS	1	1,500.00	1,500.00	1,200.00	1,200.00	1,000.00	1,000.00	20,000.00	20,000.00	6,688.00	6,688.00
22	GATE SENSOR LOOPS REMOVE AND REPLACE	LS	1	3,800.00	3,800.00	2,100.00	2,100.00	3,000.00	3,000.00	2,000.00	2,000.00	1,680.00	1,680.00
23	CLEARING AND GRUBBING	ACRE	7	500.00	3,255.00	1,200.00	7,812.00	3,000.00	19,530.00	5,000.00	32,550.00	1,200.00	7,812.00
24	UNCLASSIFIED EXCAVATION	CY	9,431	4.00	37,724.00	21.50	202,766.50	23.15	218,327.65	25.00	235,775.00	20.00	188,620.00
25	EMBANKMENT IN PLACE	CY	647	5.00	3,235.00	7.00	4,529.00	40.00	25,880.00	10.00	6,470.00	4.00	2,588.00
26	OVER EXCAVATION	CY	2,340	4.00	9,360.00	26.00	60,840.00	23.15	54,171.00	50.00	117,000.00	77.00	180,180.00
27	SPREAD EXCESS MATERIAL	CY	8,784	5.00	43,920.00	3.50	30,744.00	10.00	87,840.00	10.00	87,840.00	1.00	8,784.00
28	SCARIFY AND RECOMPACT EXISTING BASE	SY	1,721	2.50	4,302.50	5.50	9,465.50	0.75	1,290.75	5.00	8,605.00	10.00	17,210.00
29	LIME TREATED SUBGRADE PHASE 1	SY	31,438	4.50	141,471.00	4.25	133,611.50	9.01	283,256.38	5.00	157,190.00	11.50	361,537.00
30	LIME TREATED SUBGRADE PHASE 2	SY	4,606	4.50	20,727.00	9.50	43,757.00	14.50	66,787.00	6.00	27,636.00	26.00	119,756.00
31	HYDRATED LIME	TON	1,071	210.00	224,910.00	247.00	264,537.00	328.00	351,288.00	235.00	251,685.00	275.00	294,525.00
32	AGGREGATE BASE COURSE	CY	6,292	70.00	440,440.00	51.00	320,892.00	29.37	184,796.04	75.00	471,900.00	105.00	660,660.00
33	GRANULAR SHOULDER	CY	1,032	25.00	25,800.00	48.00	49,536.00	9.50	9,804.00	50.00	51,600.00	92.00	94,944.00
34	FUEL TRUCK ROAD BASE COURSE	CY	154	25.00	3,850.00	120.00	18,480.00	62.44	9,615.76	40.00	6,160.00	75.00	11,550.00
35	ASPHALT SURFACE COURSE	TON	9,017	120.00	1,082,040.00	90.00	811,530.00	123.00	1,109,091.00	95.00	856,615.00	115.00	1,036,955.00
36	TEMPORARY FUEL TRUCK ACCESS ROAD	TON	87	200.00	17,400.00	206.00	17,922.00	300.00	26,100.00	200.00	17,400.00	237.00	20,619.00
37	AC BERM	LF	80	20.00	1,600.00	45.50	3,640.00	75.00	6,000.00	50.00	4,000.00	115.00	9,200.00
38	EMULSIFED ASPHALT PRIME COAT	GAL	11,325	3.50	39,637.50	3.50	39,637.50	5.53	62,627.25	5.00	56,625.00	5.00	56,625.00
39	CONCRETE CURB	LF	639	35.00	22,365.00	48.00	30,672.00	35.00	22,365.00	50.00	31,950.00	43.00	27,477.00
40	TIE-DOWN ANCHOR	EA	27	400.00	10,800.00	1,050.00	28,350.00	525.00	14,175.00	350.00	9,450.00	943.00	25,461.00
41	PCC SLAB	SF	25	50.00	1,250.00	76.00	1,900.00	28.00	700.00	25.00	625.00	130.00	3,250.00

CITY OF CALEXICO
TAXIWAY A REHABILITATION FAA AIP NO. 3-06-0034-018-200
UNOFFICIAL BID RESULTS

Item No.	Description	Unit	Approx. Quantity	Engineer's Estimate Unit Price	Engineer's Estimate Total	Vance Corporation Unit Price	Vance Corporation Total	Pyramid Construction & Aggregate Inc. Unit Price	Pyramid Construction & Aggregate Inc. Total	Hazard Construction Unit Price	Hazard Construction Total	Granite Construction Unit Price	Granite Construction Total
42	BLACK MARKING - PHASE 1	SF	8,577	1.75	15,009.75	0.80	6,861.60	0.86	7,376.22	0.80	6,861.60	1.00	8,577.00
43	YELLOW MARKING - PHASE 1	SF	3,973	2.50	9,932.50	0.80	3,178.40	0.86	3,416.78	0.90	3,575.70	4.00	15,892.00
44	BLUE MARKING - PHASE 1	SF	81	2.50	202.50	0.80	64.80	0.86	69.66	3.00	243.00	5.00	405.00
45	BLACK MARKING - PHASE 2	SF	1,881	1.75	3,291.75	0.80	1,504.80	0.86	1,617.66	0.80	1,504.80	2.00	3,762.00
46	YELLOW MARKING - PHASE 2	SF	1,041	2.50	2,602.50	0.80	832.80	0.86	895.26	0.90	936.90	4.00	4,164.00
47	BLUE MARKING - PHASE 2	SF	87	5.00	435.00	0.80	69.60	0.86	74.82	3.00	261.00	5.00	435.00
48	YELLOW MARKING - SECOND COAT	SF	4,635	2.00	9,270.00	0.80	3,708.00	0.86	3,986.10	0.90	4,171.50	4.60	21,321.00
49	BLUE MARKING - SECOND COAT	SF	168	5.00	840.00	0.80	134.40	0.86	144.48	1.00	168.00	5.00	840.00
50	WHITE MARKING	SF	35	15.00	525.00	1.00	35.00	1.10	38.50	5.00	175.00	17.00	595.00
51	REFLECTIVE MEDIA	LB	418	4.00	1,672.00	5.25	2,194.50	5.50	2,299.00	6.00	2,508.00	9.00	3,762.00
52	6-FOOT CHAIN-LINK FENCE	LF	102	32.00	3,264.00	38.25	3,901.50	40.00	4,080.00	40.00	4,080.00	200.00	20,400.00
53	4-FOOT CHAIN-LINK FENCE ON AC	LF	60	27.00	1,620.00	33.00	1,980.00	36.00	2,160.00	35.00	2,100.00	250.00	15,000.00
54	4-FOOT CHAIN-LINK FENCE ON PCC	LF	19	30.00	570.00	37.00	703.00	40.00	760.00	40.00	760.00	178.00	3,382.00
55	20-FT DOUBLE SWING GATE (6-FT HIGH)	LS	1	6,000.00	6,000.00	2,230.00	2,230.00	2,360.00	2,360.00	2,500.00	2,500.00	4,010.00	4,010.00
56	12-FT DOUBLE SWING GATE (4-FT HIGH)	LS	1	4,000.00	4,000.00	1,974.00	1,974.00	2,100.00	2,100.00	2,000.00	2,000.00	3,520.00	3,520.00
57	ADJUST PEDESTRIAN GATE	LS	1	500.00	500.00	1,312.50	1,312.50	1,375.00	1,375.00	1,500.00	1,500.00	1,800.00	1,800.00
58	RELOCATE PERIMETER FENCE - BASE BID	LF	500	35.00	17,500.00	38.25	19,125.00	40.00	20,000.00	75.00	37,500.00	108.00	54,000.00
59	36-INCH RCP 2500-D	LF	150	250.00	37,500.00	303.00	45,450.00	234.00	35,100.00	375.00	56,250.00	220.00	33,000.00
60	30-INCH RCP 2500-D	LF	20	250.00	5,000.00	282.00	5,640.00	550.00	11,000.00	350.00	7,000.00	204.00	4,080.00
61	18-INCH RCP 2500-D	LF	193	175.00	33,766.25	178.00	34,345.10	120.00	23,154.00	265.00	51,131.75	170.00	32,801.50
62	12-INCH HDPE PIPE	LF	109	100.00	10,902.00	100.00	10,902.00	110.00	11,992.20	75.00	8,176.50	175.00	19,078.50
63	REMOVE AND DISPOSE PIPE CAP FOR 36-INCH PIPE	EA	1	500.00	500.00	355.00	355.00	3,000.00	3,000.00	2,000.00	2,000.00	320.00	320.00
64	CONCRETE COLLAR FOR 36-INCH PIPE	EA	1	1,500.00	1,500.00	3,700.00	3,700.00	4,000.00	4,000.00	2,500.00	2,500.00	2,827.00	2,827.00
65	MANHOLE PER SPPWC NO.320-2	EA	1	13,000.00	13,000.00	23,500.00	23,500.00	30,000.00	30,000.00	22,500.00	22,500.00	17,113.00	17,113.00
66	PIPE CAP FOR 30-INCH PIPE	EA	1	1,500.00	1,500.00	355.00	355.00	2,500.00	2,500.00	1,000.00	1,000.00	2,411.00	2,411.00
67	PIPE CAP FOR 18-INCH PIPE	EA	1	750.00	750.00	335.00	335.00	2,000.00	2,000.00	1,000.00	1,000.00	2,411.00	2,411.00
68	CATCH BASIN PER SPPWC NO.305-3 - TWO GRATINGS	EA	1	9,500.00	9,500.00	21,500.00	21,500.00	11,000.00	11,000.00	8,500.00	8,500.00	17,788.00	17,788.00
69	CATCH BASIN PER SPPWC NO.304-3 - ONE GRATING	EA	3	6,500.00	19,500.00	9,400.00	28,200.00	7,500.00	22,500.00	6,500.00	19,500.00	15,500.00	46,500.00
70	OUTLET STRUCTURE	EA	1	14,000.00	14,000.00	31,500.00	31,500.00	12,000.00	12,000.00	20,000.00	20,000.00	23,130.00	23,130.00
71	LIGHT CLASS RIP RAP	LS	1	1,000.00	1,000.00	2,600.00	2,600.00	4,500.00	4,500.00	2,500.00	2,500.00	2,700.00	2,700.00
72	REMOVE AND DISPOSE INLET FOR 12-INCH PIPE	EA	1	600.00	600.00	967.00	967.00	2,000.00	2,000.00	2,000.00	2,000.00	2,561.00	2,561.00
73	DRY WELL	EA	2	6,500.00	13,000.00	7,750.00	15,500.00	5,000.00	10,000.00	7,500.00	15,000.00	17,866.00	35,732.00
74	NON-ENCASED ELECTRICAL DUCT, 1-WAY 2-INCH	LF	2,133	13.00	27,729.00	28.00	59,724.00	34.00	72,522.00	25.00	53,325.00	35.50	75,721.50
75	NON-ENCASED ELECTRICAL DUCT, 2-WAY 2-INCH	LF	120	17.00	2,040.00	30.50	3,660.00	36.00	4,320.00	30.00	3,600.00	37.00	4,440.00
76	ENCASED ELECTRICAL DUCT BANK, 2-WAY 2-INCH	LF	104	30.00	3,120.00	47.25	4,914.00	45.00	4,680.00	40.00	4,160.00	46.00	4,784.00
77	REMOVE ELECTRICAL DUCT COMPLETE	LF	2,387	5.00	11,935.00	10.50	25,063.50	17.00	40,579.00	5.00	11,935.00	18.00	42,966.00
78	PRECAST PULL BOX 17 X 30 X 36 INCH	EA	2	1,750.00	3,500.00	2,940.00	5,880.00	2,200.00	4,400.00	4,500.00	9,000.00	2,230.00	4,460.00
79	REMOVE TAXIWAY LIGHT	EA	20	500.00	10,000.00	315.00	6,300.00	302.00	6,040.00	150.00	3,000.00	315.00	6,300.00
80	TAXIWAY EDGE LIGHT	EA	26	1,300.00	33,800.00	1,575.00	40,950.00	1,650.00	42,900.00	2,500.00	65,000.00	1,700.00	44,200.00
81	TAXIWAY EDGE LIGHT ON EXISTING BASE	EA	2	800.00	1,600.00	604.00	1,208.00	1,100.00	2,200.00	750.00	1,500.00	1,145.00	2,290.00
82	RELOCATED SIGN	EA	9	5,000.00	45,000.00	3,150.00	28,350.00	1,600.00	14,400.00	50.00	450.00	1,720.00	15,480.00
83	REMOVE SIGN FOUNDATION	EA	9	1,000.00	9,000.00	420.00	3,780.00	450.00	4,050.00	700.00	6,300.00	460.00	4,140.00
84	RAISE LIGHT BASE TO GRADE	EA	8	4,500.00	36,000.00	1,100.00	8,800.00	800.00	6,400.00	75.00	600.00	800.00	6,400.00
	TOTAL BASE BID				3,001,226.75	Calculated	3,164,854.00		3,499,618.02	Calculated	3,644,578.75		4,414,144.00
						Bid Showed	3,145,708.90			Bid Showed	3,670,278.75		
85	RELOCATE PERIMETER FENCE - ALTERNATE BID	LF	1,700	30.00	51,000.00	38.26	65,042.00	40.08	68,136.00	75.00	127,500.00	87.00	147,900.00
	TOTAL ALTERNATE BID				51,000.00		65,042.00		68,136.00		127,500.00		147,900.00

CITY OF CALEXICO
INVITATION FOR BIDS
TAXIWAY A REHABILITATION
FAA AIP NO.: 3-06-0034-018-2020

1. GENERAL INFORMATION

The City of Calexico is inviting bids for Taxiway A Rehabilitation at the Calexico International Airport, in the City of Calexico.

2. SCOPE OF WORK

The proposed work includes, but is not limited to, reconstructing the pavement of the full length parallel taxiway and adjacent interfacing pavement areas with a completely new asphalt concrete pavement section, and other incidental improvements such as shoulder and infield grading, installation of drainage improvements, airfield lights and signs relocations, adjustment to grade, pavement markings, perimeter fence relocation, and other miscellaneous items.

3. PROJECT SCHEDULE

The notice to proceed with construction will be issued after all construction submittals (and resubmittals if necessary) have been made by the Contractor and approved by the Engineer. All phases of construction shall be complete within 135 calendar days from the date stipulated in the notice to proceed but no later than 210 calendar days from the date of contract award.

4. TECHNICAL INQUIRES

Pre-submittal procedural or technical inquires must be submitted to Lilliana Falomir, Public Works Manager via email at falomirl@calexico.ca.gov by 5:00p.m. on May 19, 2020.

5. PROPOSAL REQUIREMENTS

SEALED PROPOSAL will be accepted at the Office of the City Clerk, City Hall, 608 Heber Avenue, Calexico, California until 2:00 p.m. on May 26, 2020, at which time all proposals will be publicly opened and read aloud. Late BIDS will be considered unresponsive.

A summary of the bids will be presented to the City Council at their meeting of July 15, 2020, at 6:30 p.m. in the City Council Chambers, 608 Heber Avenue, Calexico, California.

Each bid must be submitted in a sealed envelope bearing, on the outside, the name of the bidder, his/her address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified in the bid form.

Electronic version on the plans and specification may be obtained for a non-refundable fee of $7.50. Please contact the Public Works Department at 760/768-2160 or via email at falomirl@calexico.ca.gov. Checks are to be made payable to the City of Calexico.

No bid will be received unless it is made on the prescribed bid form furnished by the Public Works Director/City Engineer. Each bid must be accompanied by a guaranty of cash, certified check, and cashier check or bidders' bond made payable to the City of Calexico for an amount equal to at least ten percent of the bid. Such guaranty to be forfeited should the bidder to whom the contract is awarded fails to enter the contract. All guaranties are to be returned after the contract is awarded.

The bid may be considered incomplete and be disqualified if any of the following information is not provided.

Proposal/Bid Form	Workmen's Compensation Certificate
Bid Bond	Drug/Alcohol Testing Requirements
Proposal Agreement	Noncollusion Affidavit
Subcontractor's Listing	Corporate Certification Partnership Information

1. On the bid form(s), the unit price item and total contract price must be written in words and figures. The words and figures shall appear on the blank spaces provided.

2. On page 84, Subcontractor's Listing shall be completed. If no subcontractor will be used, indicate an "X" mark on the space provided for "No" subcontractor.

Prevailing Wage Rates: In accordance with the provision of Section 1770 to 1781 of the Labor Code as duly enacted by the State of California, the City Council of the City of Calexico has ascertained the general prevailing rate of wages applicable to the work to be done as those shown in the specifications of the work. Information on the current prevailing wages can be obtained by contacting the State of California, Department of Industrial Relations, Division of Labor Statistics and Research, P.O. Box 603, San Francisco, California 94101 (415) 737-2794 or http://www.dir.ca.gov/dlsr/PWD/index.htm.

All bids are to be compared on the basis of the Public Works Director/City Engineer's estimate of the quantities of work to be done. A bid will only be accepted from a Contractor who is licensed in accordance with the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California as amended. In addition, the Contractor, sub-contractors, and suppliers shall also have a business license issued by the City prior to commencing work.

Special attention of all prospective bidders is called to "Proposal Requirements and General Conditions" annexed to the blank form of the Proposal for full directions as to bidding, etc.

The City of Calexico has a Disadvantaged Business Enterprise (DBE) goal of eight percent (8%)

If bidder is a corporate entity and is awarded the contract, prior to execution of the contract, Contractor shall submit satisfactory, documentary proof that the person(s) executing said contract on the behalf of said corporation has authority to do so.

CITY'S RIGHT RESERVED: The City reserves the right to reject any or all bids, to waive any informality in a bid, and to make awards in the interest of the City.

David Dale, City Manager
City of Calexico

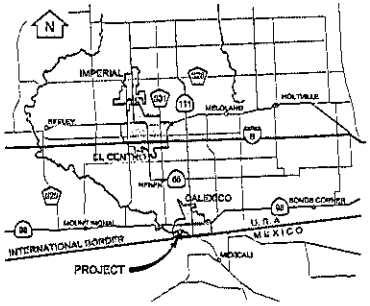
CITY OF CALEXICO
PUBLIC WORKS DEPARTMENT
TAXIWAY A REHABILIATION FAA AIP NO: 3-06-0034-018-2020
PLAN HOLDERS LIST
BID OPENING: MAY 26, 2020 AT 2:00P.M.

Spec's #	Date	Company Name and Address	Contact Person	Telephone & Fax #	Electronic Spec's and Plans $7.50	Method of Shipment
1	04/29/2020	Granite Construction Company 2095 Hwy 111 El Centro, CA 92243	Carolyn Maness Carolyn.maness@gcinc.com	760/337-3030 760/353-0437Fax	X	Email
2	04/29/2020	Pyramid Construction & Aggregates, Inc. 839 Dogwood Road Heber, CA 92249	archie@pyramidca.com	760/337-5839 760/337-5993Fax	X	Email
3	04/29/2020	Aggregate Products Inc. 9500 Beverly Road Pico Rivera, CA 90660	engineering@ma-inc.com	323/558-8000 323/558-8055Fax	X	Email
4	04/30/2020	Hazard Construction Company 10529 Vine Street Lakeside, CA 9240	bseeger@hazardcon.com	858/587-3600 858/453-6034Fax	X	Email
5	05/04/2020	Sully-Miller Contracting Company 135 S. State College Blvd., Suite 400 Brea, CA 92821	estimating@sully-miller.com	714/578-9600 714/578-9672Fax	X	Email
6	05/04/2020	Vance Corporation 17761 Solver Avenue Bloomington, CA 92316	bbarrie@vancecorp.net	909/355-4333 909/355-4339Fax	X	Email
7	05/04/2020	Pavement Recycling Systems 10240 San Sevaine Way Jurupa, CA 91752	jkaragas@pavementrecycling.com	951/682-1091 951/682-1094Fax	X	Email
8	05/04/2020	Rove Engineering PO Box 2108 El Centro, CA 92243	Estimates@roveengineering.com	760/442-3827	X	Email
9	05/05/2020	ADB SAFEGATE 977 Gahanna Parkway Columbus, OH 43230	John.nameth@adbsafegate.com	614/573-8218 614/573-8318Fax	X	Email

CITY OF CALEXICO
PUBLIC WORKS DEPARTMENT
TAXIWAY A REHABILIATION FAA AIP NO: 3-06-0034-018-2020
PLAN HOLDERS LIST
BID OPENING: MAY 26, 2020 AT 2:00P.M.

10	05/19/2020	BJ Engineering & Surveying 341 W. Crown Court Imperial, CA 92251	mabel@bjengandsurv.com	760/353-3552 760/353-3751Fax	X	Email

CITY OF CALEXICO
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION PLANS FOR
TAXIWAY A REHABILITATION
FAA A.I.P. NO. 3-06-0034-018-2020



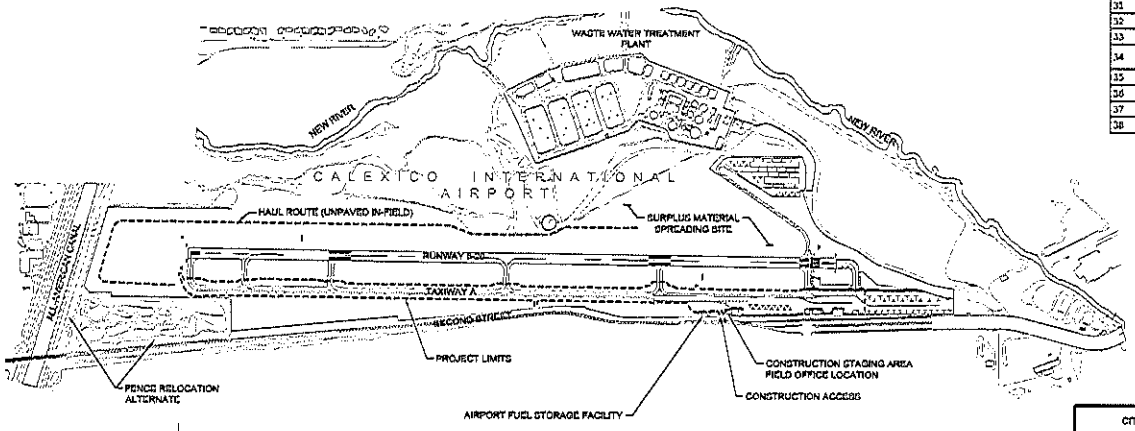
VICINITY MAP
NOT TO SCALE

ABBREVIATIONS

A	ANGLE
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AP	ANGLE POINT
BC	BEGIN CURVE
BEG	BEGIN
BVC	BEGIN VERTICAL CURVE
C	CONDUIT
CL	CENTERLINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
EC	END CURVE
EL	ELEVATION
ELEC	ELECTRICAL
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
EXIST	EXISTING
EVC	END VERTICAL CURVE
FL	FLOWLINE
FOD	FOREIGN OBJECT DEBRIS
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INT	INTERSECTION
INV	INVERT
L	LENGTH
LOG	LIMIT OF GRADING
LP	LOW POINT
LT	LEFT
LTSG	LIME-TREATED SUBGRADE
LVC	LENGTH OF VERTICAL CURVE
MIN	MINIMUM
O.C.	ON CENTER
O.D.	OUTER DIAMETER
PB	PULL BOX, MANHOLE
PCC	POINT OF COMPOUND CURVE
PCC	PORTLAND CEMENT CONCRETE
P.I.	POINT OF INTERSECTION
PT	POINT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REIL	RUNWAY END IDENTIFIER LIGHT
RT	RIGHT
RW	RUNWAY
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STA	STATION
TC	TOP OF CURVE
TOW	TOP OF WALL
TW	TAXIWAY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
∠	ANGLE
Ø	DIAMETER

SHEET INDEX

SHT NO	DWG	TITLE
1	C-001	TITLE SHEET
2	C-002	SURVEY CONTROL AND BORINGS
3	C-003	CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 1
4	C-004	CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 2
5	C-005	SEDIMENT & EROSION CONTROL PLAN
6	C-101	HORIZONTAL CONTROL PLAN - 9+76.18 TO 34+00
7	C-102	HORIZONTAL CONTROL PLAN - 34+00 TO 59+00.25
8	C-201	TAXIWAY A PLAN AND PROFILE 10+00 TO 20+00
9	C-202	TAXIWAY A PLAN AND PROFILE 20+00 TO 30+00
10	C-203	TAXIWAY A PLAN AND PROFILE 30+00 TO 40+00
11	C-204	TAXIWAY A PLAN AND PROFILE 40+00 TO 50+00
12	C-205	TAXIWAY A PLAN AND PROFILE 50+00 TO 59+03.25
13	C-206	TERMINAL AREA ENLARGED PLAN
14	C-301	STORM DRAIN PLAN & PROFILE
15	C-401	DETAILS 1 - 8
16	C-402	DETAILS 9 - 16
17	C-403	TYPICAL SECTIONS A - JJ
18	C-404	TYPICAL SECTIONS KK - OO AND DETAILS 17 - 20
19	C-501	PERIMETER FENCE RELOCATION
20	C-601	PAVEMENT MARKING PLAN 1
21	C-602	PAVEMENT MARKING PLAN 2
22	C-603	PAVEMENT MARKING DETAILS
23	C-701	CROSS SECTIONS 9+50 - 12+75
24	C-702	CROSS SECTIONS 13+00 - 17+25
25	C-703	CROSS SECTIONS 17+50 - 21+75
26	C-704	CROSS SECTIONS 22+00 - 26+25
27	C-705	CROSS SECTIONS 26+50 - 30+75
28	C-706	CROSS SECTIONS 31+00 - 35+25
29	C-707	CROSS SECTIONS 35+50 - 39+75
30	C-708	CROSS SECTIONS 40+00 - 44+25
31	C-709	CROSS SECTIONS 44+50 - 48+75
32	C-710	CROSS SECTIONS 49+00 - 53+25
33	C-711	CROSS SECTIONS 53+50 - 57+75
34	C-712	CROSS SECTIONS 58+00 - 59+00, FUEL ROAD PLAN & PROFILE
35	L-101	LIGHTING PLAN - 10+00 TO 34+00
36	L-102	LIGHTING PLAN - 34+00 TO 59+00
37	L-201	LIGHTING DETAILS
38	L-202	AIRFIELD SIGNAGE DETAILS



AGENCY CONTACT INFORMATION

CITY OF CALEXICO DEPT. OF PUBLIC WORKS	(760) 768-2160
IMPERIAL IRRIGATION DISTRICT	(760) 335-3640
AT&T (TELEPHONE)	(760) 352-1244
SOUTHERN CALIFORNIA GAS COMPANY	(800) 427-2000
SPECTRUM (CABLE TV)	(888) 406-7080

NOTE: THE CONTRACTOR MAY BE REQUIRED TO CONTACT ADDITIONAL AGENCIES WHICH ARE NOT LISTED ABOVE.

CITY OF CALEXICO APPROVAL

David Dale 04/27/2020

DAVID DALE, P.E., CITY MANAGER / CITY ENGINEER — DATE

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
1-800-227-2600

DATE	BY	DESCRIPTION
		REVISIONS

AE Consulting, Inc.
143 Yorba Street
Tustin, CA 92780
(714) 573-0214

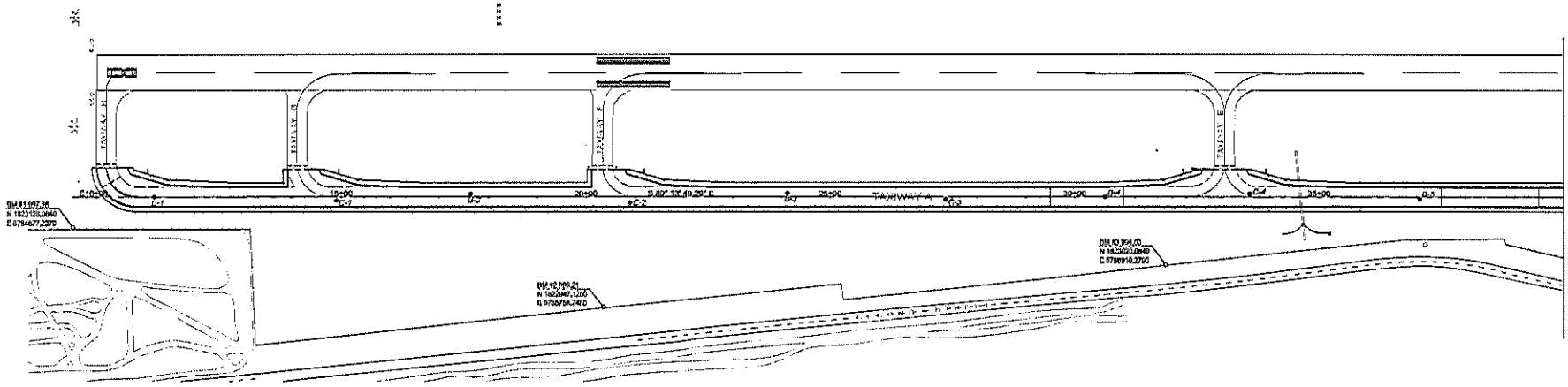
REGISTERED PROFESSIONAL ENGINEER — REYES G. BORJA — No. C47578 — Exp. 12/31/21 — CIVIL — STATE OF CALIFORNIA

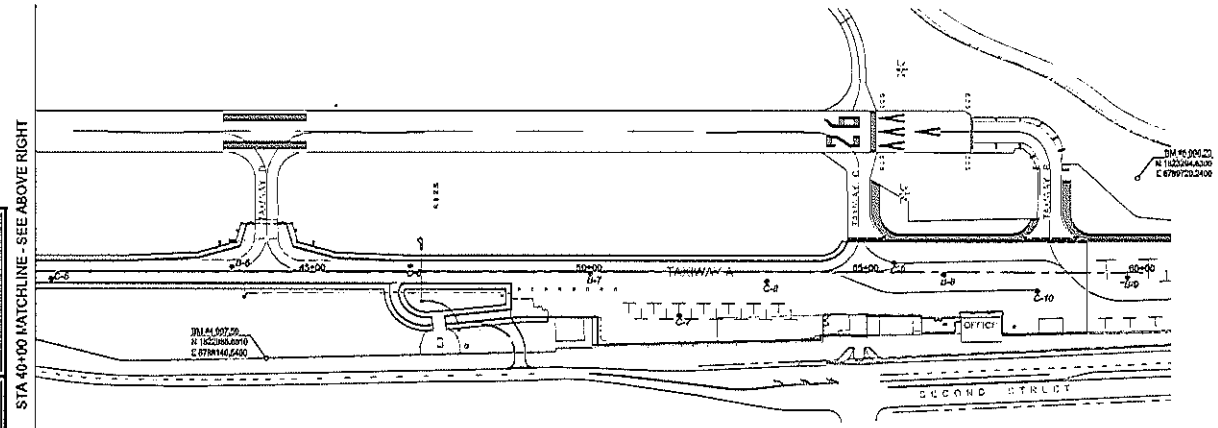
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

TITLE SHEET

JOB No. 1846 | DWG C-001 | SHEET 1 OF 38





PAVEMENT THICKNESS MEASUREMENTS FROM BORINGS / PAVEMENT CORES		
BORING ID	ASPHALTIC CONCRETE IN INCHES	AGGREGATE BASE IN INCHES
B-1	8.0	8.0
B-2	8.0	6.5
B-3	7.0	5.0
B-4	8.0	9.0
B-5	7.0	4.0
B-6	5.0	8.0
B-7	5.0	7.0
B-8	6.0	2.0
B-9	3.5	6.0
CORE ID		
C-1	5.5	5.0
C-2	5.5	4.0
C-3	5.0	8.0
C-4	5.0	6.0
C-5	6.0	5.0
C-6	6.0	8.0
C-7	3.0	9.0
C-8	5.0	7.0
C-9	6.0	6.0
C-10	5.0	4.0

CONSTRUCTION BASELINE COORDINATES		
E10+00	N 1623169.4411	E 6784729.0652
60+00	N 1623122.2763	E 6786725.0141

E10+00 IS ON THE TAXIWAY EXTENDED CENTERLINE

BENCH MARKS

BENCH MARKS ARE 1-1/2 INCH IRON PIPES 18 INCHES LONG DRIVEN INTO THE GROUND WITH TOPS AT APPROXIMATELY 2 INCHES ABOVE GRADE AND 4 TO 6 INCHES OF CONCRETE POURED AROUND EACH.

(SCALE IN FEET)

TWO DAYS BEFORE YOU DIG

CALL USA TOLL FREE

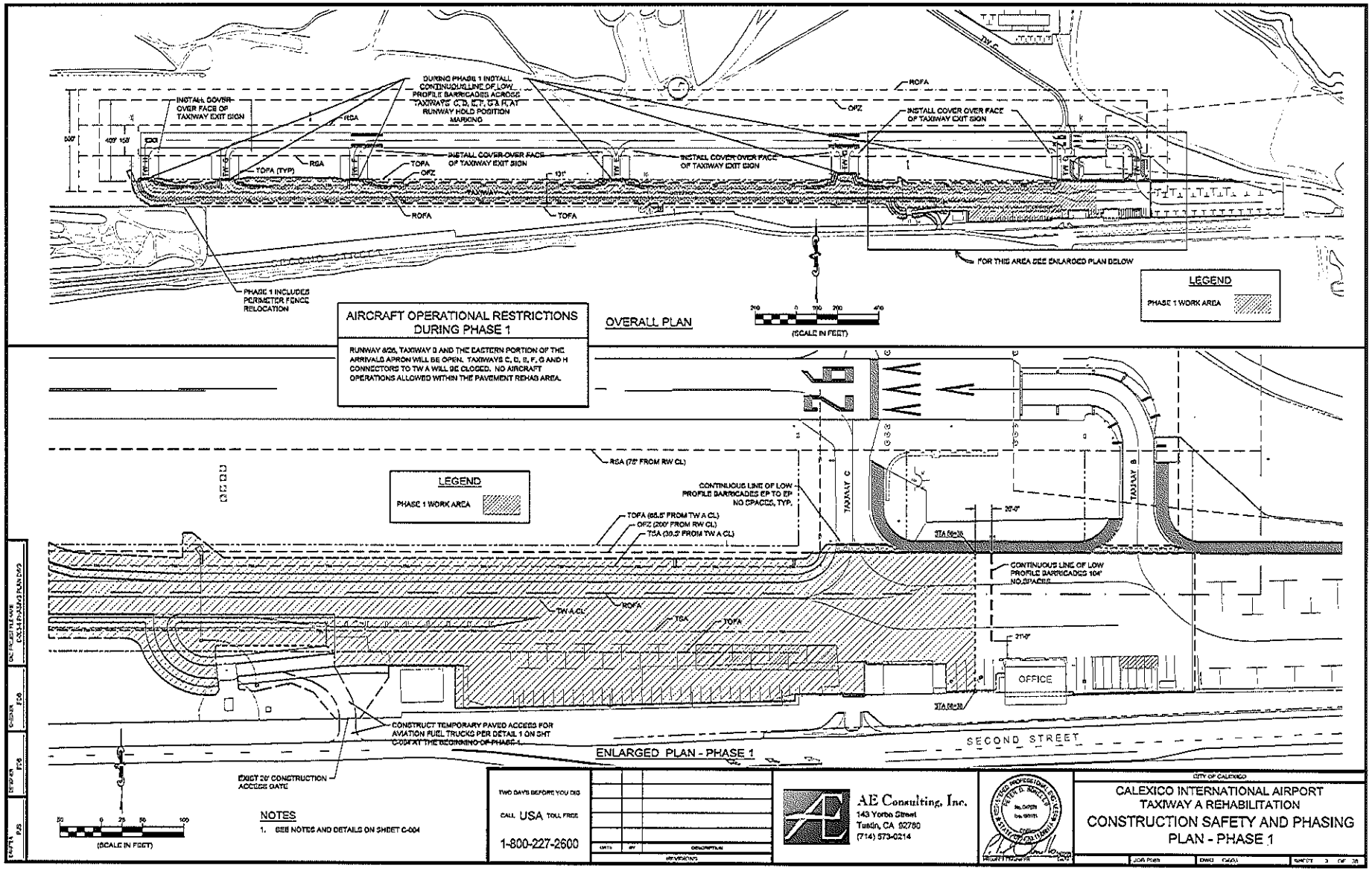
1-800-227-2600

DATE	BY	DESCRIPTION

AE Consulting, Inc.
143 Yorba Street
Tustin, CA 92780
(714) 573-0214

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
SURVEY CONTROL AND SOIL BORINGS



NOTES

1. SEE NOTES AND DETAILS ON SHEET C-004

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
1-800-227-2600

DATE	BY	DESCRIPTION

REVISIONS

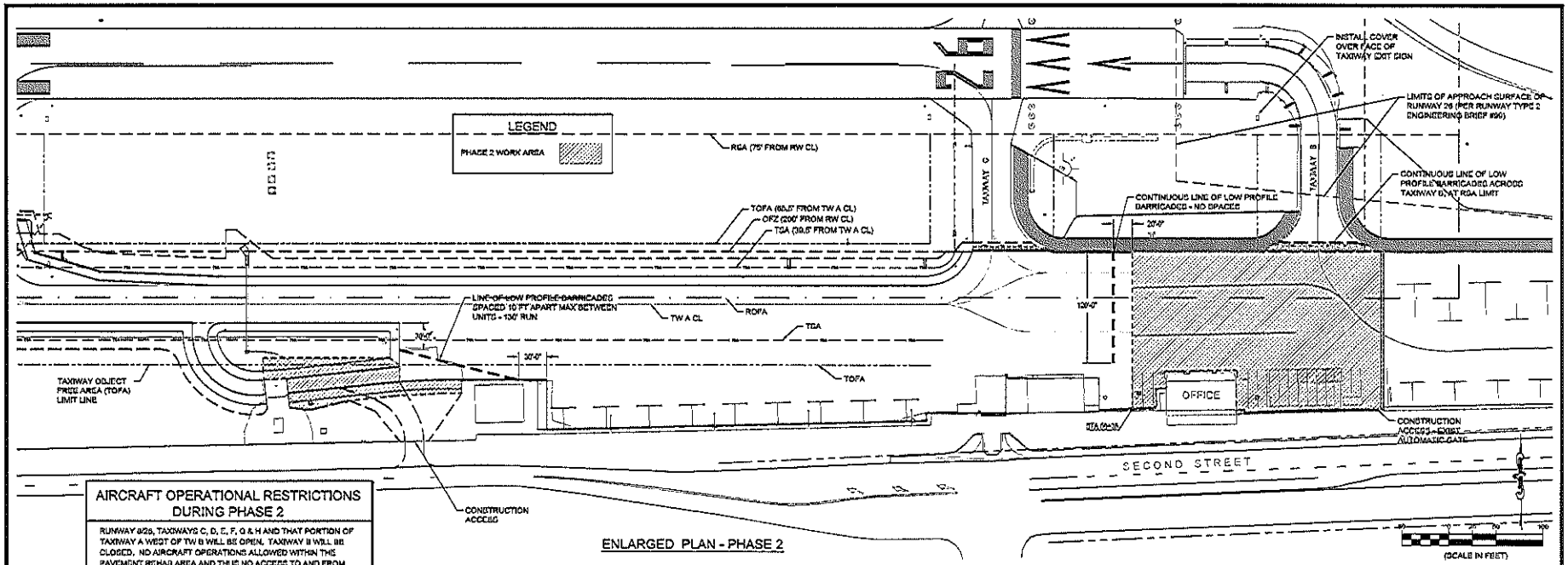
AE Consulting, Inc.
143 Yorba Street
Tustin, CA 92780
(714) 573-0214

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 1

JOB NO. | DWG C4C01 | SHEET 3 OF 38



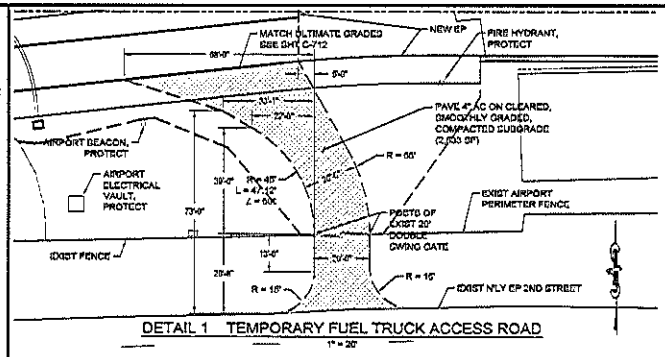
ENLARGED PLAN - PHASE 2

AIRCRAFT OPERATIONAL RESTRICTIONS DURING PHASE 2

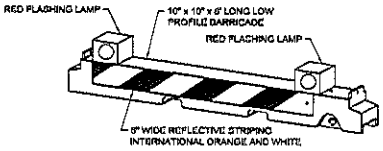
RUNWAY 8/26, TAXIWAYS C, D, E, F, G & H AND THAT PORTION OF TAXIWAY A WEST OF TW B WILL BE OPEN. TAXIWAY B WILL BE CLOSED. NO AIRCRAFT OPERATIONS ALLOWED WITHIN THE PAVEMENT REHAB AREA AND THUS NO ACCESS TO AND FROM THE EAST TIE DOWN APRON. APPROACHES TO RUNWAY 26 WILL BE RESTRICTED TO SMALL AIRPLANES, VISUAL.

NOTES

1. CONTRACTOR SHALL REPAIR EXISTING PAVEMENTS THAT MAY BECOME DAMAGED DURING CONSTRUCTION DUE TO THE CONTRACTOR'S OPERATIONS (INCIDENTAL TO PROJECT).
2. EXISTING UTILITY LOCATIONS, AS SHOWN ON THESE PLANS, WERE COMPILED BASED ON INFORMATION AVAILABLE TO THE ENGINEER. UTILITY LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AGENCIES AND CONDUCT POTHOLING BY HAND AS NECESSARY IN ORDER TO LOCATE ALL UTILITIES WITHIN THE LIMITS OF WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL AIRPORT PROPERTY, EQUIPMENT, UTILITIES AND STRUCTURES. IF DAMAGE TO EXISTING ITEMS DOES OCCUR DURING THE WORK, THE CONTRACTOR SHALL RESTORE SUCH PROPERTY, AT THE CONTRACTOR'S OWN EXPENSE, TO A CONDITION EQUAL TO OR BETTER THAN THE DAMAGED ITEMS ORIGINAL CONDITION.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING ELECTRICAL AND OTHER UTILITY SERVICES DURING CONSTRUCTION, U.N.O.
5. HAULING ACROSS THE ACTIVE APRON AND TAXIWAYS IS PROHIBITED, UNLESS EXPRESSLY AUTHORIZED BY THE AIRPORT ON A CASE BY CASE BASIS.
6. ALL LOW PROFILE BARRICADES SHALL BE AS SHOWN IN DETAIL 2 AT RIGHT AND SHALL BE IN PLACE AND FUNCTIONING BEFORE WORK CAN COMMENCE ON THE PHASE.
7. THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION WITHOUT PRIOR APPROVAL FROM THE OWNER AND ENGINEER.
8. ALL VEHICLES OPERATING ON THE AIRPORT PROPERTY SHALL BE FLAGGED AND MARKED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5210-5 "PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AN AIRPORT" (LATEST EDITION).
9. ALL CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2 "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION" (LATEST EDITION).
10. THE CONTRACTOR SHALL YIELD TO AIRCRAFT AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL NOT OPERATE ANY VEHICLES AT SPEEDS GREATER THAN 15 MILES PER HOUR ON AIRPORT PROPERTY.
12. THE CONTRACTOR MUST MAINTAIN THE ADJACENT PAVEMENT AREAS IN A CLEAN CONDITION, FREE OF DEBRIS, DUST, DIRT, STONE AND OTHER FOREIGN OBJECTS. THE CONTRACTOR SHALL VACUUM AND/OR SWEEP AS NECESSARY OR AS DIRECTED BY THE OWNER OR ENGINEER.
13. RSA, ROFA, TSA AND TOFA LIMITS ARE EQUIDISTANT FROM RUNWAY OR TAXIWAY CENTERLINE.
14. WORK ON CONSTRUCTING FUEL TRUCK SHOULDERS AND GRADING THE INFIELD WITHIN THE TOFA SHALL ONLY BE PERFORMED WHEN AIRCRAFT ARE NOT ACTIVE ON THE ADJACENT PORTION OF TAXIWAY A.
15. THE CONTRACTOR SHALL DISCONNECT TAXIWAY LIGHTING CIRCUIT TO ENSURE THAT TAXIWAY LIGHTS ARE TURNED OFF FOR ALL CLOSED TAXIWAYS (PHASE 1) AND TURNED BACK ON WHEN TAXIWAYS ARE REOPENED (PHASE 2)



DETAIL 1 TEMPORARY FUEL TRUCK ACCESS ROAD



NOTES:
1. BARRICADES SHALL BE PLACED IN A CONTINUOUS LINE - NO SPACES, U.N.O.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIONING AND PROPER OPERATION OF ALL BARRICADES AND ASSOCIATED LIGHTS.
3. WATER FILLED WEIGHTS, SANDBAGS OR OTHER ANCHORING MEANS MAY BE REQUIRED TO HOLD BARRICADES IN PLACE. ANCHORING IS INCIDENTAL TO THE ITEM.
4. INSTALL TWO LAMPS PER BARRICADE - ONE ON EACH END. LAMPS MAY BE BATTERY OR SOLAR POWERED.

DETAIL 2 LOW PROFILE BARRICADE
NOT TO SCALE

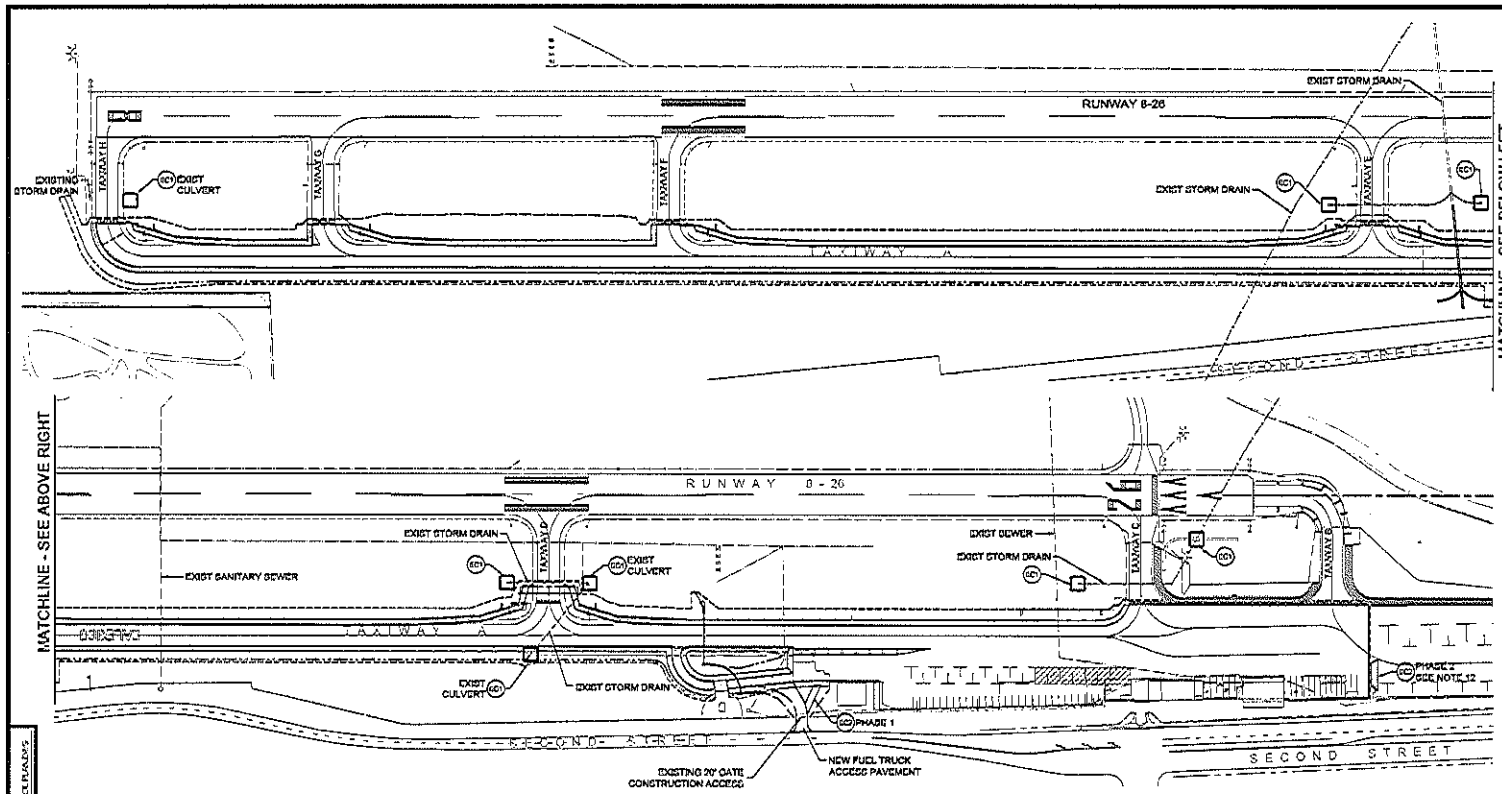
TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
1-800-227-2600

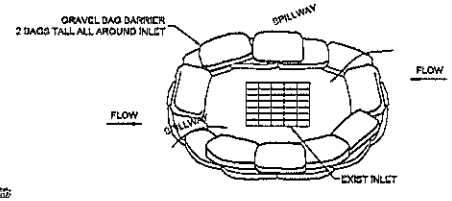
DATE	BY	DESCRIPTION

AE Consulting, Inc.
143 Yorba Street
Tustin, CA 92780
(714) 573-0214

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 2





NOTES:

1) STORM DRAIN INLET PROTECTION IS REQUIRED AT ALL INLETS TO THE STORM DRAIN SYSTEM INCLUDING AREA INLETS, CURB INLETS, CULVERTS AND TRENCH DRAINS.

2) MODIFY INLET PROTECTION AS NECESSARY TO AVOID CREATING TRAFFIC HAZARDS.

3) INSPECT INLET PROTECTION AND REMOVE SEDIMENT PERIODICALLY. SEDIMENT SHALL BE REMOVED IMMEDIATELY AFTER EACH RAINFALL EVENT.

4) LEAVE A SINGLE GRAVEL BAG GAP IN THE TOPMOST ROW OF GRAVEL BAGS TO PROVIDE A SPILLWAY FOR OVERFLOW.

STORM DRAIN INLET CONTROL (1)
NOT TO SCALE

EROSION CONTROL NOTES

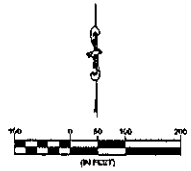
ECN CONSTRUCT EROSION CONTROL PER DETAIL 1 ON SHEET C-003

ECN CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE/EXIT

SYMBOL LEGEND

STORM DRAIN INLET PROTECTION (SHOWN AT LOCATIONS OF KNOWN INLETS)

STABILIZED CONSTRUCTION ENTRANCE/EXIT



NOTES (CONTINUED):

11. STRAW WADDLES, SILT FENCES AND/OR OTHER BMPS SHALL BE INSTALLED ONLY AS REQUIRED BY THE APPROVED SWPPP. SEE NOTE 10.
12. THE DAMAGED PAVEMENT WHERE THE STABILIZED CONSTRUCTION ENTRANCE/EXIT FOR PHASE 2 WILL BE SHALL BE REMOVED AND REPLACED, I.E. THE LIMITS OF REMOVE AND REPLACE AS SHOWN ON THIS PLAND WILL BE ADJUSTED TO ENCOMPASS THIS AREA.
13. THE FUEL TRUCK ACCESS PAVEMENT SHALL BE INSTALLED AT THE SAME TIME AS THE PHASE 1STABILIZED CONSTRUCTION ENTRANCE/EXIT.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL STORM WATER POLLUTION PREVENTION MEASURES AT THE PROJECT SITE, AT ALL DRAINAGE OUTFLOW POINTS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL UTILIZE STORM DRAIN INLET PROTECTION AT AREA INLETS, CATCH BASINS, TRENCH DRAINS AND OTHER INLETS IN ACCORDANCE WITH CALTRANS STANDARDS, WHETHER OR NOT SUCH INLETS ARE IDENTIFIED ON THIS PLAN.

2. CONTRACTOR SHALL ADOPT EROSION AND SEDIMENT CONTROL PRACTICES IN ACCORDANCE WITH THESE PLANS AND THE CALIFORNIA STORMWATER QUALITY ASSOCIATION'S (CASQA) STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK FOR CONSTRUCTION.

3. ALL CONSTRUCTION MATERIALS STORED OR STOCKPILED ON SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCES OF WIND AND WATER.

4. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BMPs, CLEAN AND DISPOSE OF DEBRIS.

5. IN GENERAL, CLEANING, FUELING AND MAINTENANCE OF VEHICLES AND EQUIPMENT WILL NOT BE ALLOWED TO OCCUR ON SITE UNLESS ABSOLUTELY NECESSARY. WHEN NECESSARY, VEHICLES AND EQUIPMENT SHALL BE REPAIRED ON SITE ONLY IN DESIGNATED CONTAINED AREAS. THE CONTRACTOR SHALL LOCATE SUCH DESIGNATED CONTAINED AREAS AWAY FROM STORM DRAIN INLETS AND DRAINAGE COURSES AND PREVENT RUN-ON AND RUN-OFF FROM SUCH AREAS. LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON SITE. VEHICLES AND EQUIPMENT SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN OR DROP CLOTH, TO CATCH SPILLS AND LEAKS DURING REPAIRS. THE CONTRACTOR SHALL LEGALLY DISPOSE OF USED OILS, FLUIDS AND LUBRICANTS.

6. CLEAN UP SPILLS AND LEAKS IMMEDIATELY WITH ABSORBENT MATERIALS. DO NOT FLUSH WITH WATER. PROVIDE SECONDARY CONTAINMENT MEASURES AROUND STORED LIQUID MATERIALS AND MAINTAIN AN ADEQUATE SUPPLY OF ABSORBENT SPILL CLEANUP MATERIALS.

7. THE CONTRACTOR SHALL KEEP A VACUUM SWEEPER TRUCK AND WATER TRUCK ON SITE AT ALL TIMES DURING WORKING AND NON-WORKING HOURS AND SHALL MAINTAIN THE SITE FREE FROM DUST AND OBJECTIONABLE DEBRIS. DURING PERIODS OF TIME WHEN THERE IS NO CONSTRUCTION ACTIVITY (BETWEEN WORKSHIFTS), THE VACUUM SWEEPER TRUCK AND WATER TRUCK MUST BE READY AND ON SITE WITH CONTRACTOR'S PERSONNEL AVAILABLE BY PHONE TO RESPOND IMMEDIATELY TO A DUST OR DEBRIS PROBLEM AS IDENTIFIED BY AIRPORT OPERATIONS STAFF OR THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO PREVENT FOREIGN OBJECT DEBRIS (FOD) IN AIRCRAFT MOVEMENT AREAS. THE CONTRACTOR SHALL PROVIDE CONTROL OF CONSTRUCTION-AREA-GENERATED DUST ON A 24-HOUR BASIS. VACUUM SWEEPER EQUIPMENT MUST BE IN GOOD WORKING ORDER AND SHALL NOT CREATE DUST OR DEBRIS PROBLEMS DURING USE. ANY EQUIPMENT DETERMINED BY THE ENGINEER TO BE CAUSING UNACCEPTABLE DUST OR DEBRIS PROBLEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED.

8. TRUCKS AND EQUIPMENT SHALL HAVE ALL LOOSE DIRT, ROCKS, AND OTHER OBJECTIONABLE MATERIALS REMOVED WHEN OPERATING NEAR AIRCRAFT OPERATIONS AREAS OR WHEN LEAVING A WORK AREA. THE CONTRACTOR SHALL PROVIDE TRUCK WASHES, RUMBLE STRIPS, SHAKERS OR ANY OTHER MEANS NECESSARY TO PREVENT FOD IN AIRCRAFT AND PUBLIC TRAFFIC AREAS. THE CONTRACTOR'S OPERATIONS WILL BE CONTINUOUSLY MONITORED BY THE AIRPORT AND IF THE CONTRACTOR'S METHODS ARE NOT REMOVING DEBRIS ADEQUATELY TO MEET CAPACITY REQUIREMENTS, THE CONTRACTOR WILL BE REQUIRED TO IMPROVE HIS/HER METHODS OR UTILIZE NEW METHODS AT NO ADDITIONAL COST TO THE OWNER.

9. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

10. EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIRED. ADDITIONAL MEASURES IDENTIFIED IN THE SWPPP SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

TWO DAYS BEFORE YOU DIG
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DATE	BY	DESCRIPTION

REVISIONS

AE Consulting, Inc.
143 Yorba Street
Tustin, CA 92780
(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER
PAUL D. BORTOLI
No. C40578
Exp. 12/31/13
CIVIL
STATE OF CALIFORNIA

PROJECT MANAGER DATE

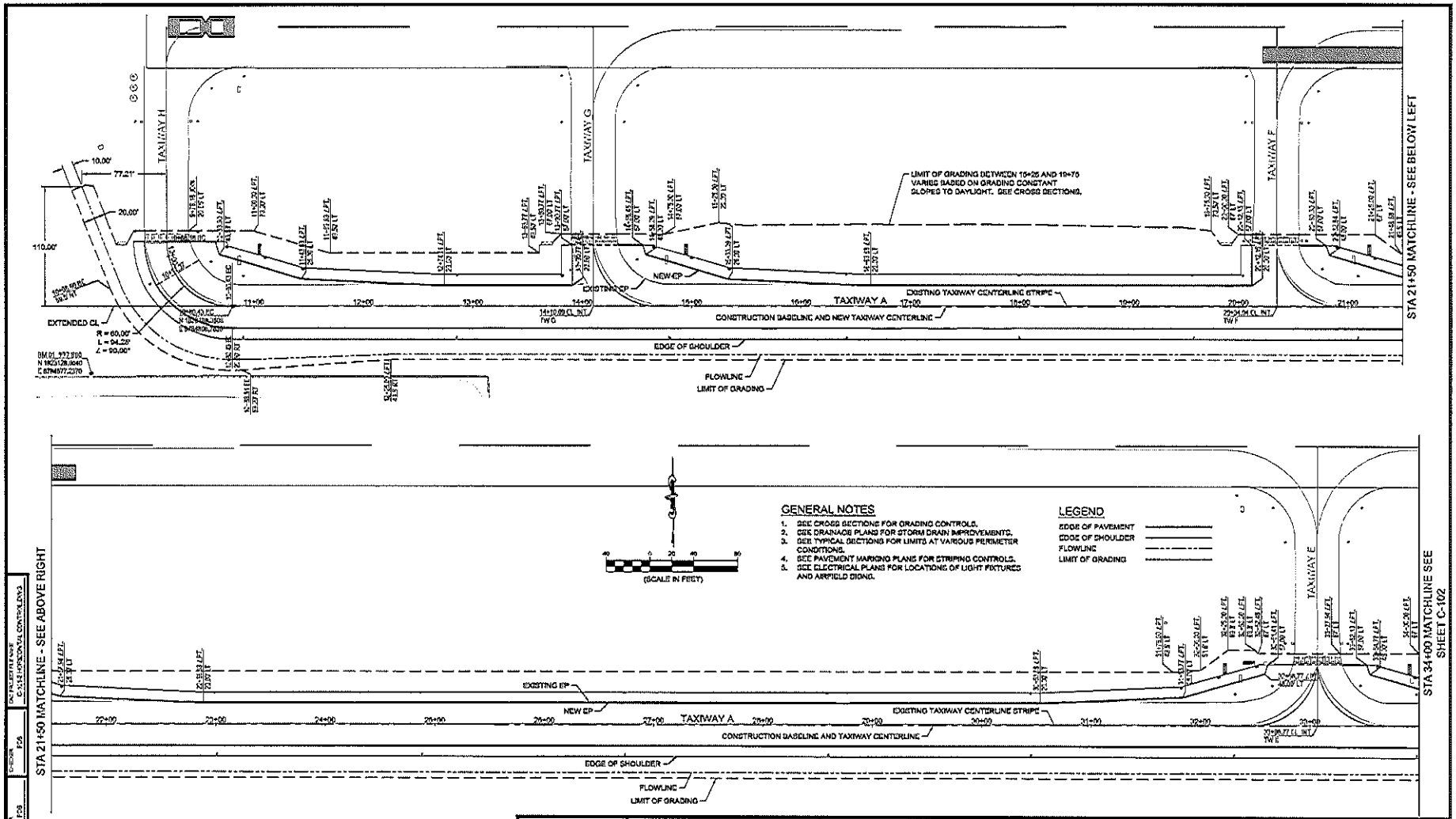
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

SEDIMENT AND EROSION CONTROL PLAN

JOB NUMBER | DATE | SHEET 1 OF 33

DRAWN BY PJS
DESIGN BY PJS
CHECK BY PJS
DATE PJS
CONSTRUCTION EROSION CONTROL PLAN



GENERAL NOTES

1. SEE CROSS SECTIONS FOR GRADING CONTROLS.
2. SEE DRAINAGE PLANS FOR STORM DRAIN IMPROVEMENTS.
3. SEE TYPICAL SECTIONS FOR LIMITS AT VARIOUS PERIMETER CONDITIONS.
4. SEE PAVEMENT MARKING PLANS FOR STRIPING CONTROLS.
5. SEE ELECTRICAL PLANS FOR LOCATIONS OF LIGHT FIXTURES AND AIRFIELD SIGNS.

LEGEND

EDGE OF PAVEMENT
EDGE OF SHOULDER
FLOWLINE
LIMIT OF GRADING

KEY PLAN

TWO DAYS BEFORE YOU DIG
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1-800-227-2600

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CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
HORIZONTAL CONTROL PLAN
9+76.18 TO 34+00

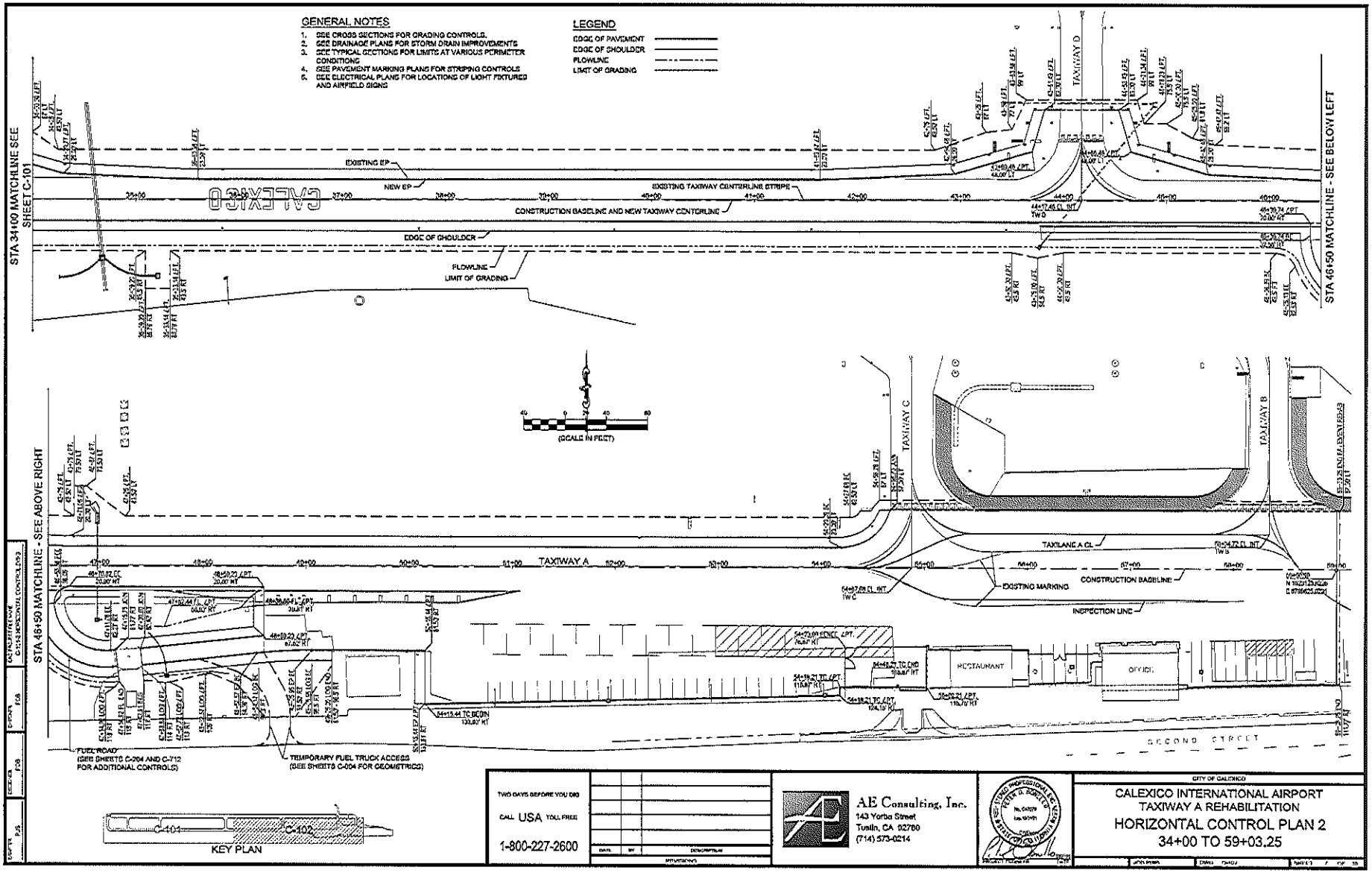
JOB PDBR | DWG C-101 | SHEET 8 OF 38

GENERAL NOTES

1. SEE CROSS SECTIONS FOR GRADING CONTROLS.
2. SEE DRAINAGE PLANS FOR STORM DRAIN IMPROVEMENTS
3. SEE TYPICAL SECTIONS FOR LIMITS AT VARIOUS PERIMETER CONDITIONS
4. SEE PAVEMENT MARKING PLANS FOR STRIPING CONTROLS
5. SEE ELECTRICAL PLANS FOR LOCATIONS OF LIGHT FIXTURES AND AIRFIELD SIGNS

LEGEND

- EDGE OF PAVEMENT
- EDGE OF SHOULDER
- FLOWLINE
- LIMIT OF GRADING



TWO DAYS BEFORE YOU DIG

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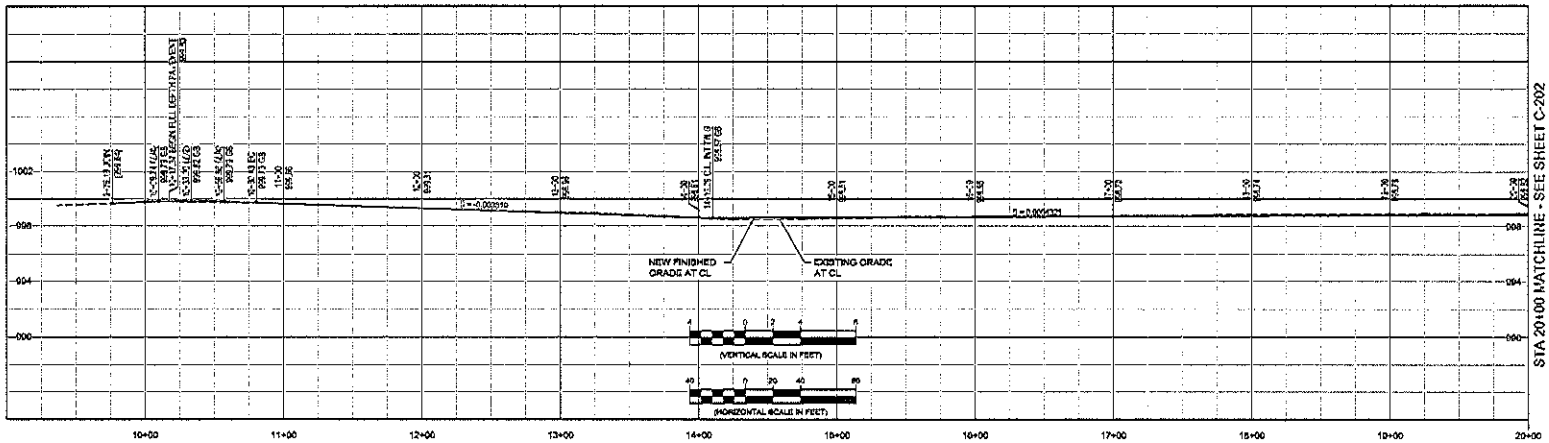
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

HORIZONTAL CONTROL PLAN 2
34+00 TO 59+03.25



CONSTRUCTION NOTES

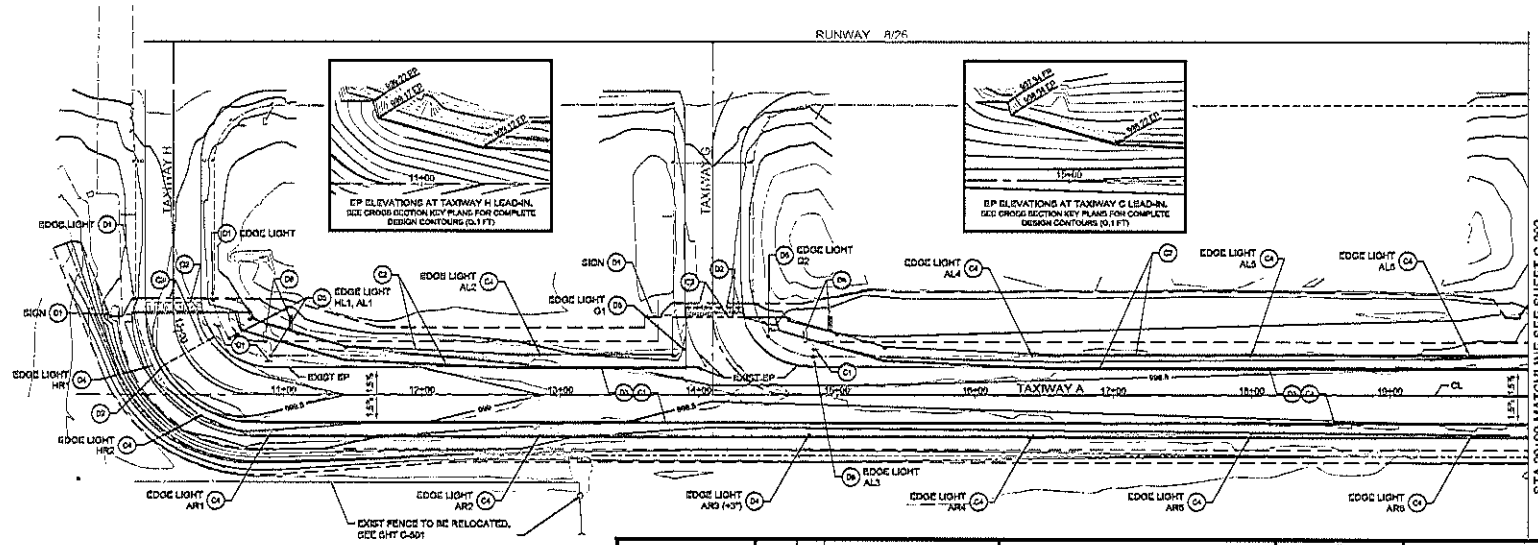
- C1 CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHT C-401
- C2 CONSTRUCT NEW SHOULDER PER DETAIL 2 ON SHT C-401
- C3 AC REMOVE AND REPLACE PER DETAIL 3 ON SHT C-401
- C4 GRADE AROUND EXISTING STRUCTURE PER DETAIL 4 ON SHT C-401

DISPOSITION NOTES

- D1 PROTECT IN PLACE
- D2 SAWCUT EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D3 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D4 ADJUST TO GRADE
- D5 REMOVE AND DISPOSE
- D6 DEMO PCC SIGN PAD, RELOCATE SIGN TO NEW PAD.

GENERAL NOTES

1. SEE CROSS SECTIONS AND TYPICAL SECTIONS FOR GRADING CONTROLS AND ADDITIONAL DETAILS.
2. SEE ELECTRICAL PLANS FOR LIGHTING IMPROVEMENTS.



TAXIWAY EDGE LIGHT DESIGNATION KEY

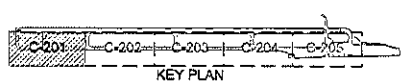
AL4 — TAXIWAY DESIGNATION; LIGHT NUMBER; L = LEFT, R = RIGHT

FOR CONNECTOR TAXIWAYS THE "L" AND "R" MAY BE OMITTED

LEGEND

- EDGE OF PAVEMENT
- MAJOR CONTOUR
- MINOR CONTOUR
- LIMIT OF GRADING
- EXIST ELECTRICAL CONDUIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

(SCALE IN FEET)



KEY PLAN

TWO DAYS BEFORE YOU DIG

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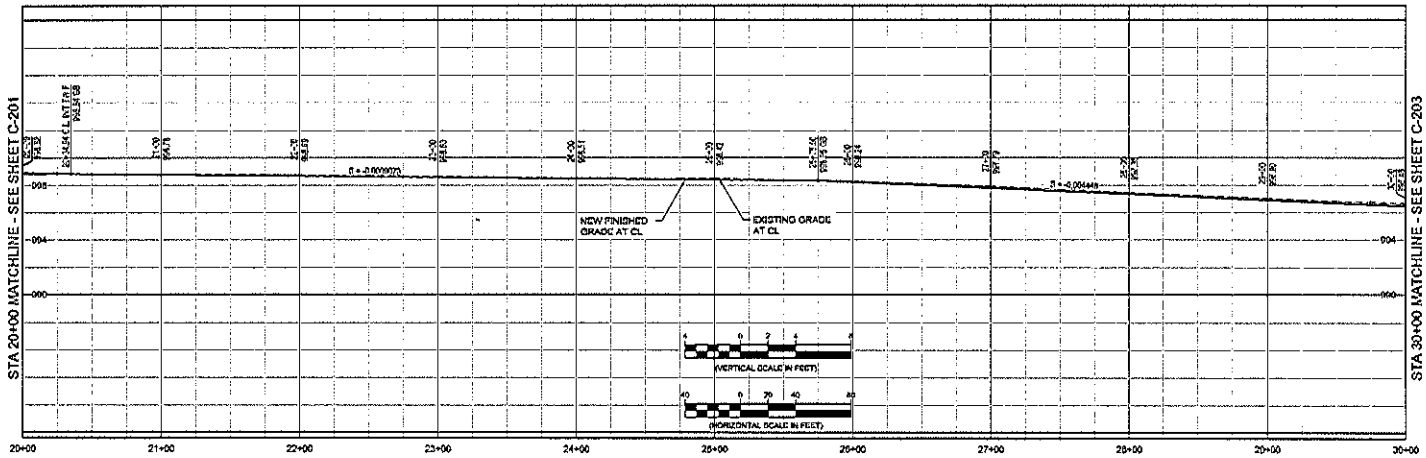
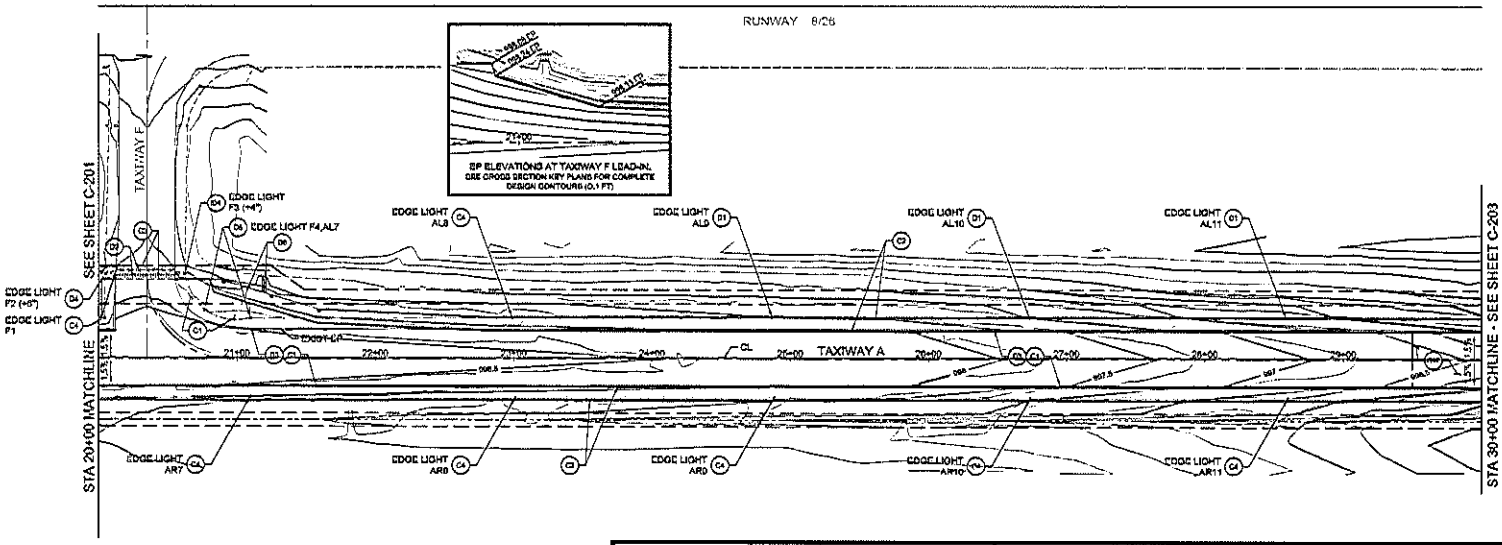
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
TAXIWAY A PLAN AND PROFILE
10+00 TO 20+00





CONSTRUCTION NOTES

- C1 CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHT C-401
- C2 CONSTRUCT NEW SHOULDER PER DETAIL 2 ON SHT C-401
- C3 AC REMOVE AND REPLACE PER DETAIL 3 ON SHT C-401
- C4 GRADE AROUND EXISTING STRUCTURE PER DETAIL 4 ON SHT C-401
- C17 RECONSTRUCT TAXIWAY SUBGRADE PER DETAIL 7 ON SHT C-401

DISPOSITION NOTES

- D1 PROTECT IN PLACE
- D2 SAWCUT EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D3 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D4 ADJUST TO GRADE
- D5 REMOVE AND DISPOSE
- D6 DEMO PCC SIGN PAD, RELOCATE SIGN TO NEW PAD.

GENERAL NOTES

1. SEE CROSS SECTIONS AND TYPICAL SECTIONS FOR GRADING CONTROLS AND ADDITIONAL DETAILS.
2. SEE ELECTRICAL PLANS FOR LIGHTING IMPROVEMENTS.
3. SEE SHT C-201 FOR TAXIWAY EDGE LIGHT DESIGNATION KEY

LEGEND

- EDGE OF PAVEMENT
- MAJOR CONTOUR
- MINOR CONTOUR
- LIMIT OF GRADING
- EXIST ELECTRICAL CONDUIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

(SCALE IN FEET)

KEY PLAN

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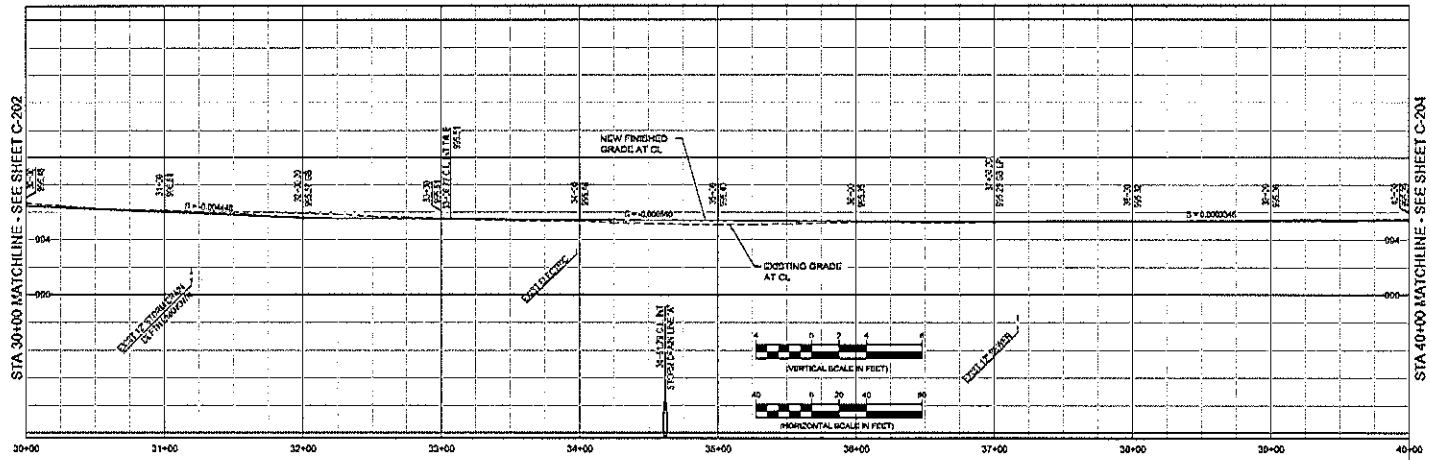
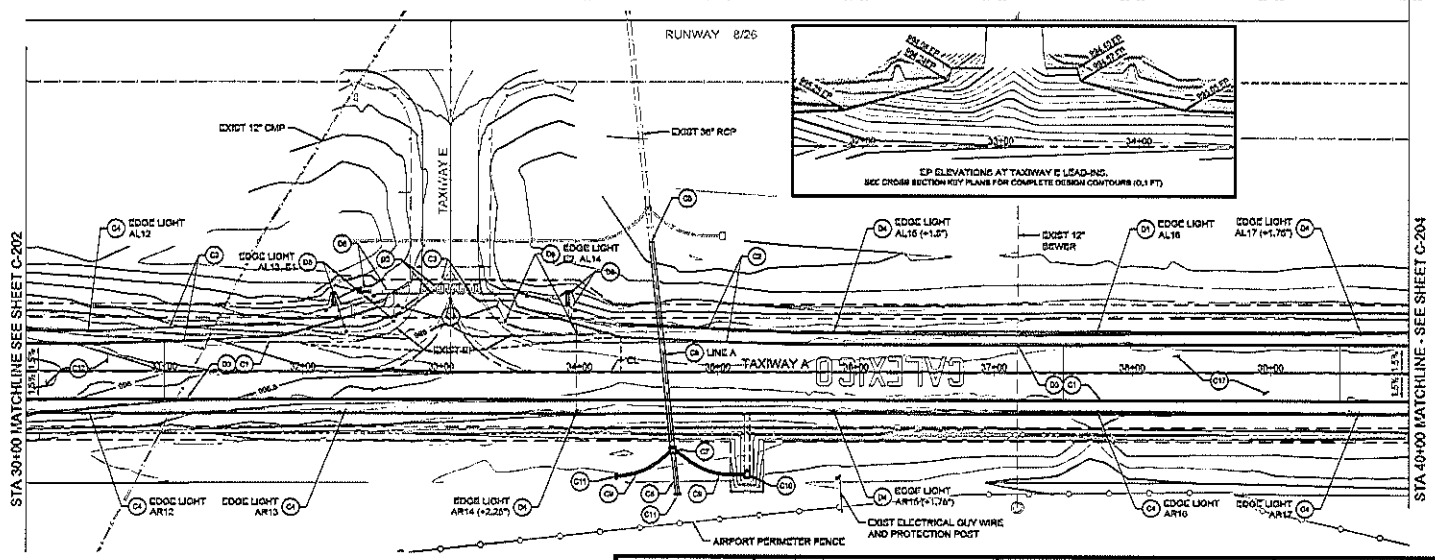
CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

TAXIWAY A PLAN AND PROFILE
20+00 TO 30+00

JOB #185 | DWG C-202 | SHEET 8 OF 38





CONSTRUCTION NOTES

- C1 CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHT C-401
- C2 CONSTRUCT NEW SHOULDER PER DETAIL 2 ON SHT C-401
- C3 AC REMOVE AND REPLACE PER DETAIL 3 ON SHT C-401
- C4 GRADE AROUND EXISTING STRUCTURE PER DETAIL 4 ON SHT C-401
- C5 REMOVE PIPE CAP, SIMILAR TO DETAIL 9, AND CONNECT NEW PIPE TO EXISTING.
- C6 CONSTRUCT 36" RCP 2500-D PER DETAIL 10 ON SHT C-402
- C7 CONSTRUCT MANHOLE PER SPPWC STD PLAN NO. 320-2
- C8 CONSTRUCT 30" RCP 2500-D PER DETAIL 10 ON SHT C-402
- C9 CONSTRUCT 18" RCP 2500-D PER DETAIL 10 ON SHT C-402
- C10 CONSTRUCT GRATING CATCH BASIN PER SPPWC STD PLAN NO.305-3 TWO GRATINGS, A = 90°
- C11 CONSTRUCT PIPE CAP PER DETAIL 9 ON SHT C-402
- C17 RECONSTRUCT TAXIWAY SUBGRADE PER DETAIL 7 ON SHT C-401

DISPOSITION NOTES

- D1 PROTECT IN PLACE
- D2 SAWCUT EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D3 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D4 ADJUST TO GRADE
- D5 REMOVE AND DISPOSE
- D6 DEMO PCC SIGN PAD, RELOCATE SIGN TO NEW PAD.

GENERAL NOTES

1. SEE CROSS SECTIONS AND TYPICAL SECTIONS FOR GRADING CONTROLS AND ADDITIONAL DETAILS.
2. SEE ELECTRICAL PLANS FOR LIGHTING IMPROVEMENTS
3. SEE SHT C-201 FOR TAXIWAY EDGE LIGHT DESIGNATION KEY.
4. SEE SHT C-301 FOR STORM DRAIN PLAN AND PROFILE OF LINE A.

LEGEND

- EDGE OF PAVEMENT
- MAJOR CONTOUR
- MINOR CONTOUR
- LIMIT OF GRADING
- EXIST ELECTRICAL CONDUIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

(SCALE IN FEET)

KEY PLAN

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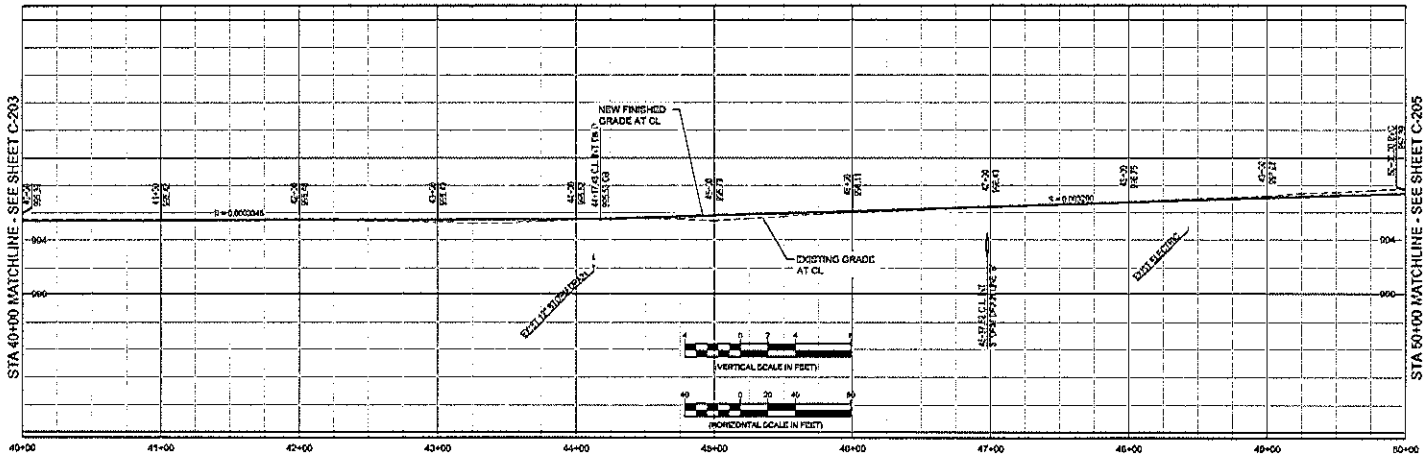
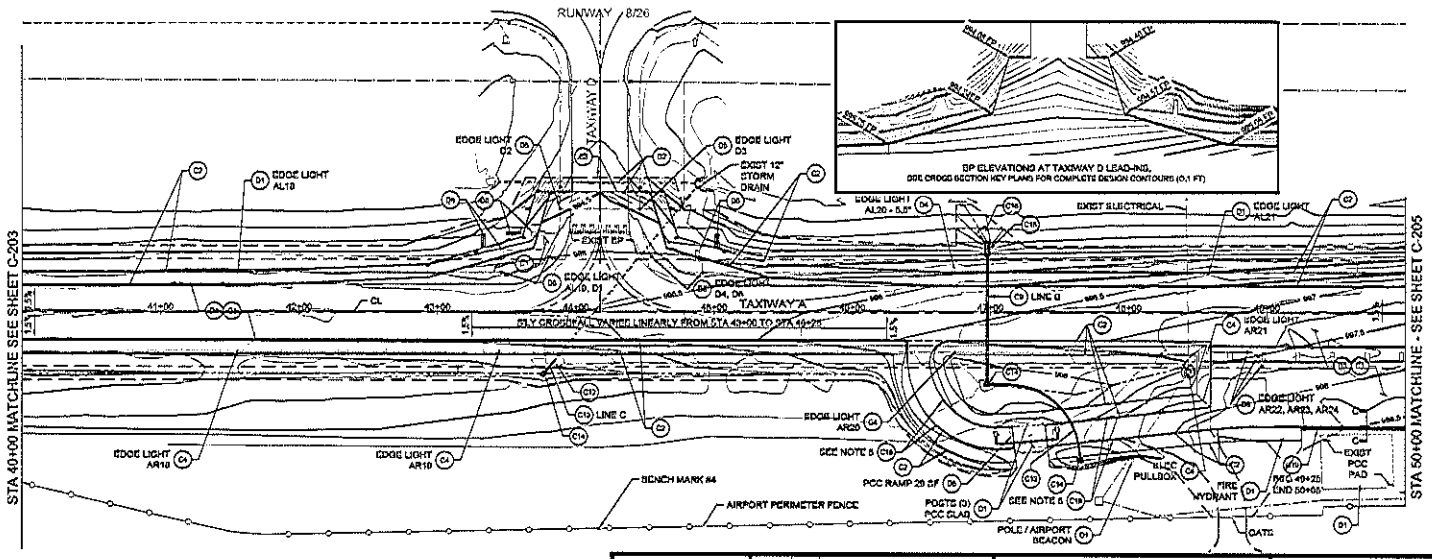
CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

TAXIWAY A PLAN AND PROFILE 30+00 TO 40+00

DWG C-201





CONSTRUCTION NOTES

- C1 CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHT C-401
- C2 CONSTRUCT NEW SHOULDER PER DETAIL 2 ON SHT C-401
- C3 AC REMOVE AND REPLACE PER DETAIL 3 ON SHT C-401
- C4 GRADE AROUND EXISTING STRUCTURE PER DETAIL 4 ON SHT C-401
- C5 CONSTRUCT 18" RCP 2500-D PER DETAIL 10 ON SHT C-402
- C12 REMOVE EXISTING INLET AND CONNECT NEW PIPE TO EXISTING WITH CONCRETE COLLAR PER SPPWC STD PLAN NO.380-4
- C13 CONSTRUCT 12" HDPE PIPE PER DETAIL 10 ON SHT C-402
- C14 CONSTRUCT INLET PER SPPWC STD PLAN NO.304-3 SINGLE GRATING, A = 90°
- C15 CONSTRUCT OUTLET STRUCTURE PER DETAIL 11 ON SHT C-402
- C16 CONSTRUCT LIGHT CLASS RIP RAP PER DETAIL 12 ON SHT C-402
- C17 CONSTRUCT FUEL TRUCK AC PAVEMENT PER DETAIL 6 ON SHT C-401
- C18 CONSTRUCT AC BERM PER DETAIL 8 ON SHT C-401

DISPOSITION NOTES

- D1 PROTECT IN PLACE
- D2 SAWCUT EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D3 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D4 ADJUST TO GRADE
- D5 REMOVE AND DISPOSE
- D6 DEMO PCC SIGN PAD. RELOCATE SIGN TO NEW PAD.

GENERAL NOTES

1. SEE CROSS SECTIONS AND TYPICAL SECTIONS FOR GRADING CONTROLS AND ADDITIONAL DETAILS.
2. SEE ELECTRICAL PLANS FOR LIGHTING IMPROVEMENTS.
3. SEE SHT C-201 FOR TAXIWAY EDGE LIGHT DESIGNATION KEY.
4. SEE SHT C-301 FOR PLAN AND PROFILE OF STORM DRAIN LINE B.
5. SEE DETAIL 20 ON SHT C-404 FOR PROFILE OF STORM DRAIN LINE C.
6. SEE SHT C-712 FOR FUEL ROAD ENLARGED PLAN AND PROFILE.

LEGEND

- EDGE OF PAVEMENT
- MAJOR CONTOUR
- MINOR CONTOUR
- LIMIT OF GRADING
- EXIST ELECTRICAL CONDUIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

KEY PLAN

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
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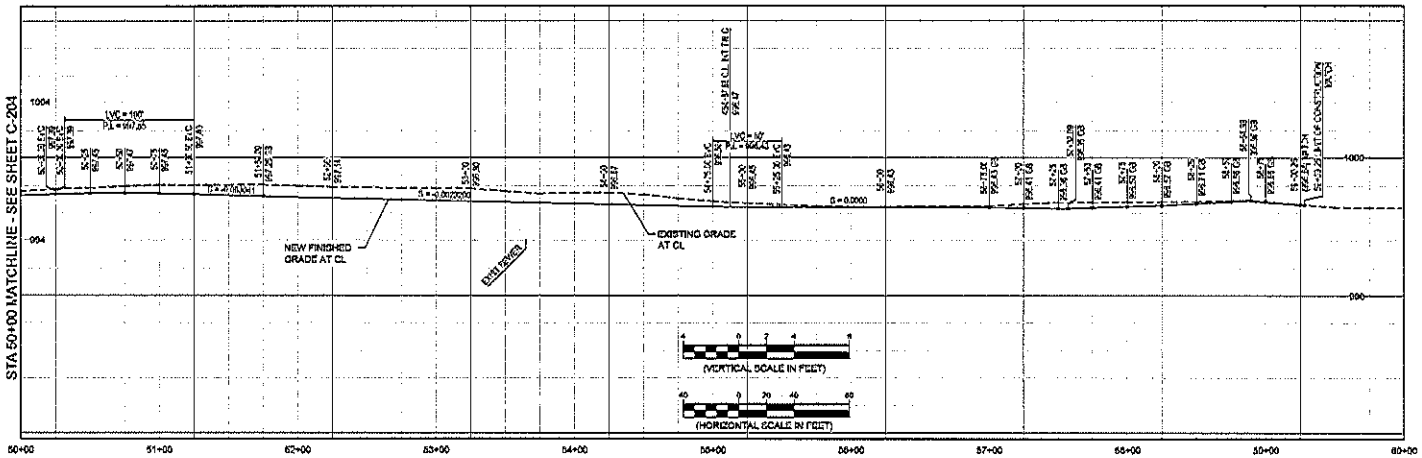
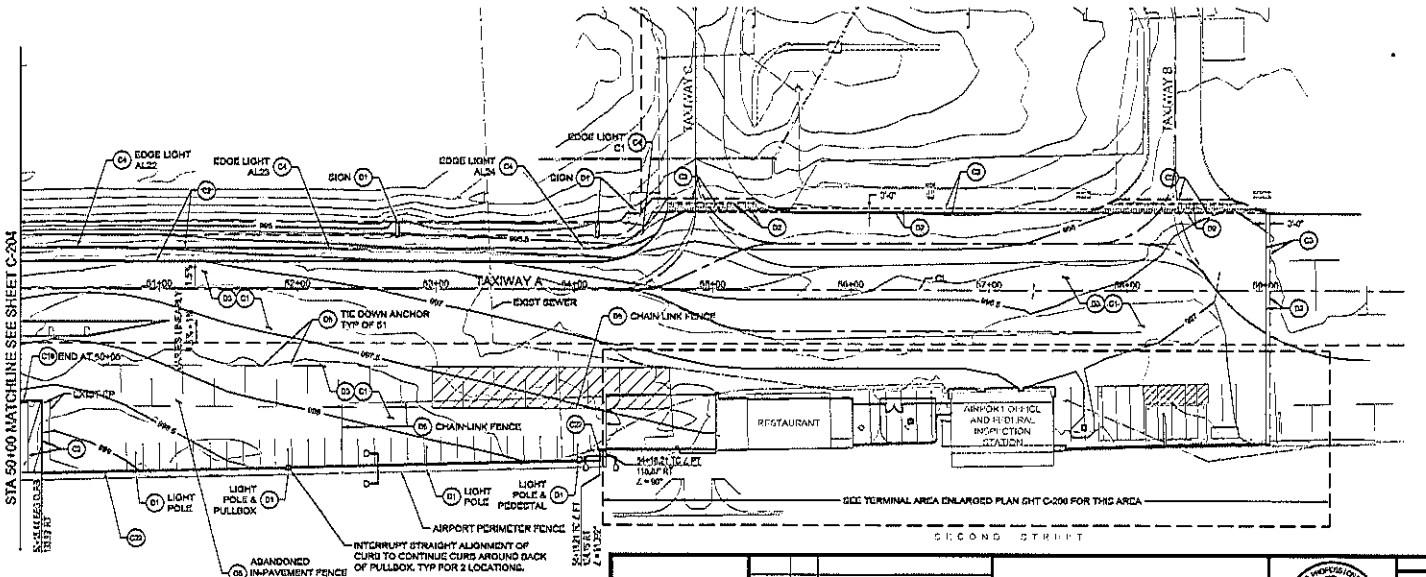
CITY OF CALEXICO

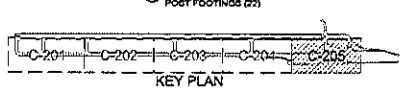
CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

TAXIWAY A PLAN AND PROFILE 40+00 TO 50+00

JOB NO. | DWG. C-204 | SHEET 11 OF 36







KEY PLAN

CONSTRUCTION NOTES

- C1 CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHT C-401
- C2 CONSTRUCT NEW SHOULDER PER DETAIL 2 ON SHT C-401
- C3 AC REMOVE AND REPLACE PER DETAIL 3 ON SHT C-401
- C4 GRADE AROUND EXISTING STRUCTURE PER DETAIL 4 ON SHT C-401
- C19 CONSTRUCT AC BERM PER DETAIL 8 ON SHT C-401
- C22 CONSTRUCT PCC CURB PER DETAIL 5 ON SHT C-401

DISPOSITION NOTES

- D1 PROTECT IN PLACE
- D2 SAWCUT EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D3 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D4 ADJUST TO GRADE
- D5 REMOVE AND DISPOSE
- D6 DEMO PCC SIGN PAD, RELOCATE SIGN TO NEW PAD.

GENERAL NOTES

1. SEE CROSS SECTIONS AND TYPICAL SECTIONS FOR GRADING CONTROLS AND ADDITIONAL DETAILS.
2. SEE ELECTRICAL PLANS FOR LIGHTING IMPROVEMENTS.
3. SEE MARKING PLANS FOR INSTALLATION OF TIE-DOWN ANCHORS AND PAVEMENT MARKINGS.
4. SEE SHT C-201 FOR TAXIWAY EDGE LIGHT DESIGNATION KEY.

LEGEND

- EDGE OF PAVEMENT
- MAJOR CONTOUR
- MINOR CONTOUR
- LIMIT OF GRADING
- EXIST ELECTRICAL CONDUIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

(SCALE IN FEET)

TWO DAYS BEFORE YOU DIG

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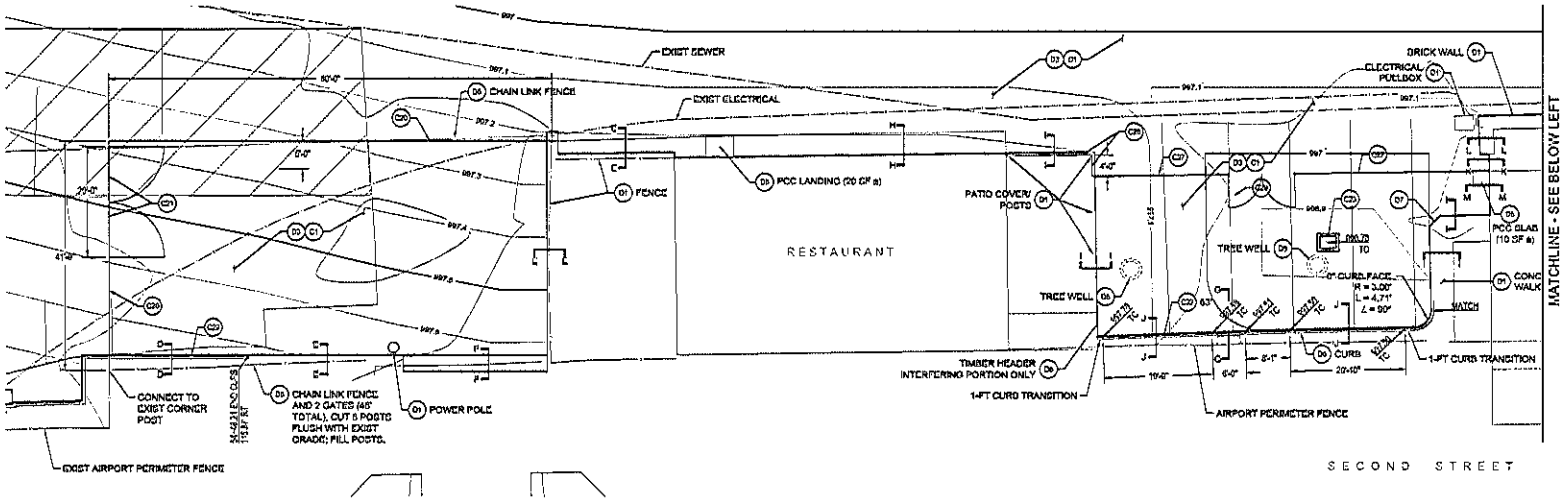
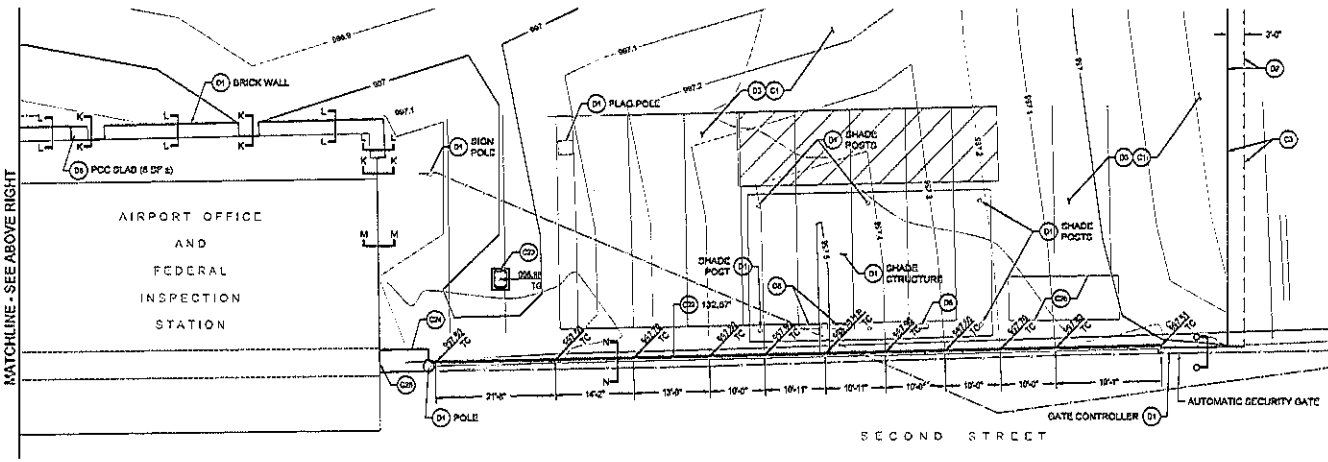
CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
TAXIWAY A PLAN AND PROFILE
50+00 TO 59+03.25

JOB NO. | DWG C-205 | SHEET 17 OF 38





CONSTRUCTION NOTES

- C1 CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHT C-401
- D3 AC REMOVE AND REPLACE PER DETAIL 3 ON SHT C-401
- D20 CONSTRUCT 6-FT CHAIN LINK FENCE PER DETAIL 13 ON SHT C-402
- D21 CONSTRUCT CHAIN LINK DOUBLE SWING GATE PER DETAIL 14 ON SHT C-402
- D22 CONSTRUCT PCC CURB PER DETAIL 8 ON SHT C-401
- D23 CONSTRUCT DRYWELL PER DETAIL 16 ON SHT C-402
- D24 CONSTRUCT PCC SLAB PER DETAIL 17 ON SHT C-404
- D25 REPLACE EXIST PEDESTRIAN GATE WITH NEW GATE ASSEMBLY ARMCO WITH LEVER HANDLE LATCHBOLT KEYPAD LOCK
- D26 RELOCATE METAL CONTAINER TO EAST END OF TIE-DOWN APRON AND REINSTALL IN ORIGINAL LOCATION AFTER PAVING
- D27 CONSTRUCT 4-FT CHAIN LINK FENCE IN AC PAVEMENT PER DETAIL 18 ON SHT C-404
- D28 CONSTRUCT 4-FT CHAIN LINK FENCE IN PCC PAVEMENT PER DETAIL 19 ON SHT C-404
- D29 CONSTRUCT 10-FT CHAIN LINK VEHICLE GATE PER DETAIL 15 ON SHT C-404

DISPOSITION NOTES

- D1 PROTECT IN PLACE
- D3 SAWCUT EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D3 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT (FULL-DEPTH)
- D4 ADJUST TO GRADE
- D8 REMOVE AND DISPOSE
- D6 DEMO PCC SIGN PAD. RELOCATE SIGN TO NEW PAD.
- D7 SAWCUT PCC WALK AT 45° 2 INCHES BACK FROM EXIST CRACK AND DISPOSE OF BROKEN CORNER AND SAWCUT MATERIAL.
- D4 REMOVE WHEEL STOP, SALVAGE AND RE-INSTALL AFTER PAVING

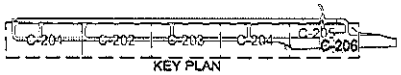
GENERAL NOTES

1. SEE CROSS SECTIONS AND TYPICAL SECTIONS FOR GRADING CONTROLS AND ADDITIONAL DETAILS.
2. SEE ELECTRICAL PLANS FOR LIGHTING IMPROVEMENTS.
3. SEE MARKING PLANS FOR INSTALLATION OF TIE-DOWN ANCHORS AND PAVEMENT MARKINGS.

LEGEND

- EDGE OF PAVEMENT
- MAJOR CONTOUR
- MINOR CONTOUR
- LIMIT OF GRADING
- EXIST ELECTRICAL CONDUIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

(SCALE IN FEET)



KEY PLAN

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DATE	BY	DESCRIPTION

REVISIONS

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143 Yorba Street
Tustin, CA 92780
(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER — PETER D. MORRIS — No. C47879 — Exp. 12/31/21 — CIVIL — STATE OF CALIFORNIA

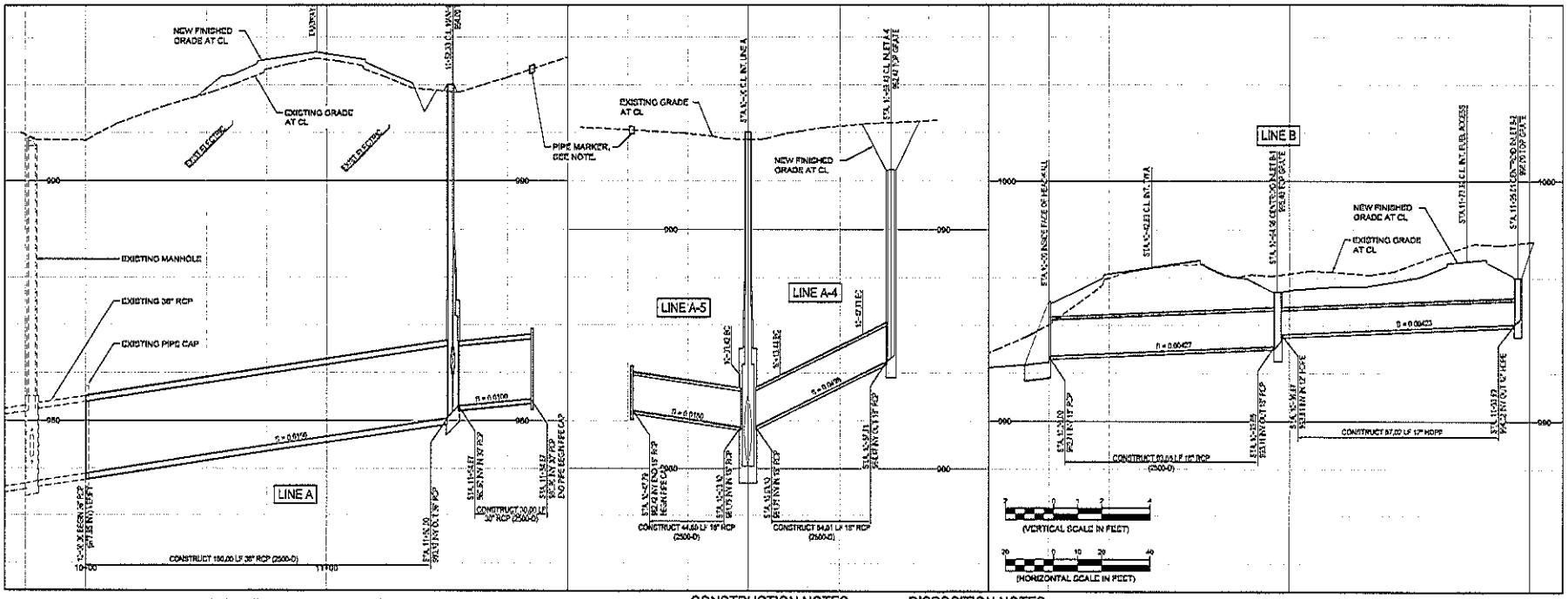
PROJECT ENGINEER DATE

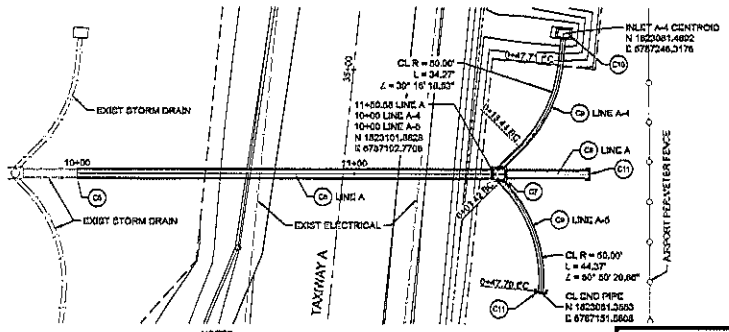
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT TAXIWAY A REHABILITATION

TERMINAL AREA ENLARGED PLAN

JOB NO. | DWG. CATM | SHEET 13 OF 36



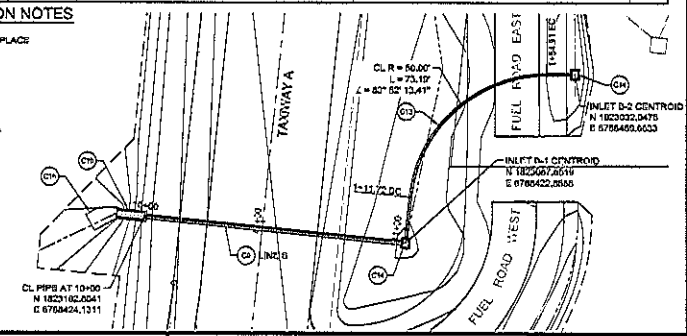


CONSTRUCTION NOTES

- C5 REMOVE PIPE CAP, GRBLAR TO DETAIL 9, AND CONNECT NEW PIPE TO EXISTING.
- C6 CONSTRUCT 36" RCP 2500-D PER DETAIL 10 ON SHT C-402
- C7 CONSTRUCT MANHOLE PER SPPWC STD PLAN NO. 320-2
- C8 CONSTRUCT 30" RCP 2500-D PER DETAIL 10 ON SHT C-402
- C9 CONSTRUCT 18" RCP 2500-D PER DETAIL 10 ON SHT C-402
- C10 CONSTRUCT GRATING CATCH BASIN PER SPPWC STD PLAN NO.306-3 TWO GRATINGS, A = 90°
- C11 CONSTRUCT PIPE CAP PER DETAIL 9 ON SHT C-402
- C12 CONSTRUCT 12" HDPE PIPE PER DETAIL 10 ON SHT C-402
- C14 CONSTRUCT INLET PER SPPWC STD PLAN NO.304-3 SINGLE GRATING, A = 90°
- C15 CONSTRUCT OUTLET STRUCTURE PER DETAIL11 ON SHT C-402
- C16 CONSTRUCT LIGHT CLASS RIP RAP PER DETAIL 12 ON SHT C-402

DISPOSITION NOTES

- D1 PROTECT IN PLACE



NOTES:

1. PIPE MARKER SHALL BE A SLAB OF CONCRETE 2 FT X 2 FT X 4" THICK SET WITH ITS SURFACE 2" ABOVE GRADE CENTERED OVER THE HIGH POINT OF THE PIPE CAP. TOP SURFACE SHALL BE ENGRAVED WITH 3-INCH PRINTED LETTERS, 1/2-INCH DEPRESSED, SAYING "STORM DRAIN PIPE DAD". PROVIDE SUBMITTAL OF ENGRAVING MOULD TO RPR FOR APPROVAL.
2. SEE SHEET C-204/C-404 FOR RELOCATION OF EXISTING INLET AND EXTENSION OF EXISTING STORM DRAIN, STA. 43+60 ±.
3. CONCRETE COLLARS PER SPPWC NO.380 SHALL BE CONSTRUCTED FOR PIPE TO PIPE CONNECTIONS TO EXISTING PIPE.

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
1-800-227-2600

DATE	BY	DESCRIPTION

REVISIONS

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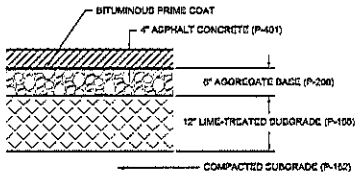
TAXIWAY A REHABILITATION
STORM DRAIN PLAN AND PROFILE

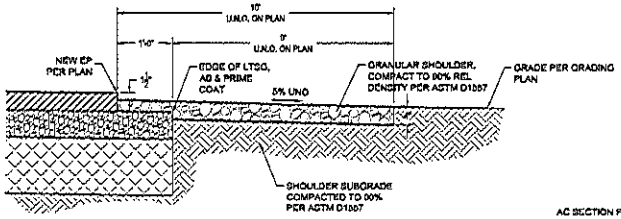
JOB NO. | DWG C-301 | SHEET 14 OF 38



NOTE:
1. WHERE LIME STABILIZATION CANNOT OCCUR DUE TO PROXIMITY TO EXISTING STRUCTURES SUBGRADE SHALL BE COMPACTED TO 90% MAX DENSITY PER ASTM D1557

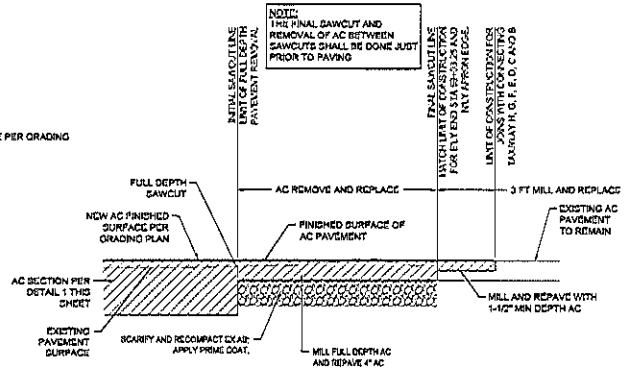
TAXIWAY AC PAVEMENT (1 / C-201-6)

NOT TO SCALE



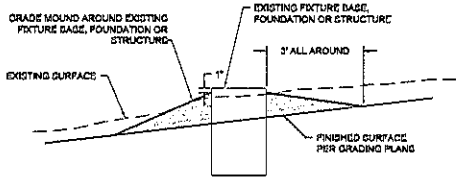
GRANULAR SHOULDER (2 / C-201-6)

VERTICAL SCALE: 1" = 1'-0"
HORIZONTAL IS NOT TO SCALE



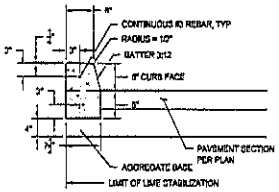
AC REMOVE AND REPLACE (3 / C-201-6)

NOT TO SCALE



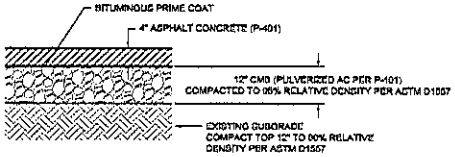
GRADING AT LIGHTS, SIGNS OR PULLBOXES TO REMAIN (4 / C-201-3)

NOT TO SCALE



6" PCC CURB (5 / C-205-6)

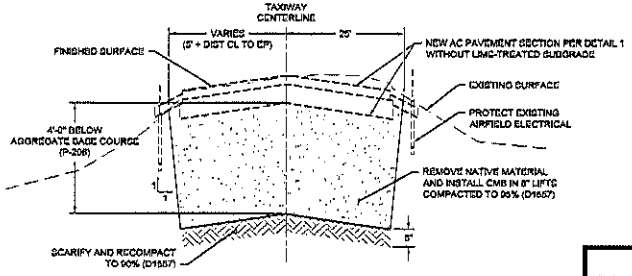
1" = 1'-0"



NOTE:
1. BASE COURSE AND SUBGRADE PREP EXTENDS 1 FT BEYOND EP ON BOTH SIDES AND DROP OFF AT EPs IS 1-1/2" SIMILAR TO TAXIWAY PER DETAIL A/C-400 AND DETAIL 2 ABOVE.

NEW FUEL TRUCK AC PAVEMENT (6 / C-204)

NOT TO SCALE

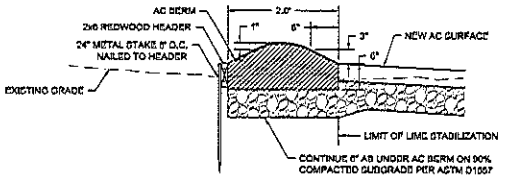


TAXIWAY OVEREXCAVATION (7 / C-202-3)

NOT TO SCALE

OVEREXCAVATION NOTES:

1. ONE OR TWO AREAS ARE EXPECTED TO REQUIRE OVEREXCAVATION OF THE TAXIWAY SUBGRADE EACH ABOUT 150 TO 300 FT LONG.
2. THESE AREAS ARE EXPECTED TO BE IN THE VICINITY OF STA 30+00 AND STA 36+00.
3. AFTER THE EXISTING TAXIWAY PAVEMENT LAYERS HAVE BEEN REMOVED THE ENGINEER WILL PROBE THE EXISTING SUBGRADE IN AN EFFORT TO LOCATE THESE AREAS AND DETERMINE THE NEED FOR OVEREXCAVATION AND THE PRECISE LIMITS.
4. THE CONTRACTOR SHALL WAIT FOR DIRECTION FROM THE ENGINEER BEFORE PROCEEDING WITH THE WORK IN THESE AREAS.



NEW AC BERM (8 / C-204-6)

1" = 1'-0"

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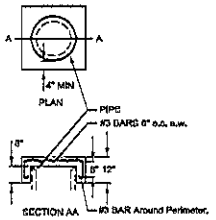
TAXIWAY A REHABILITATION

DETAILS 1 - 8

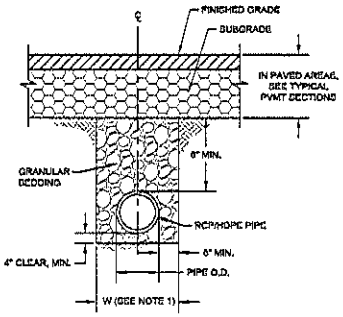
DWG. NO. C-401-1 DETAILS AND SECTIONS-3
DATE F.G.
DESIGN F.G.
CHECK F.G.



NOTE:
1) INSIDE DIAMETER OF PIPE CAP SHALL BE ½" GREATER THAN OUTER WALL OF PIPE.
2) PIPE CAP SHALL BE PRECAST AND INSTALLED ON SITE TO AVOID BONDING OF CONCRETE WITH RCP
3) GAPS BETWEEN CAP AND RCP SHALL BE SEALED WITH MORTAR AFTER CAP IS INSTALLED.

PIPE CAP (9 / C-301)

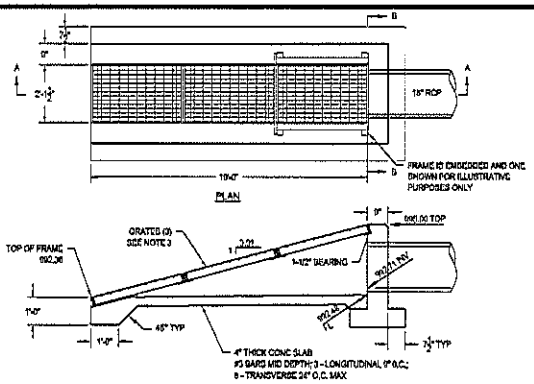
NOT TO SCALE

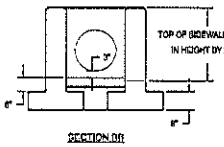


NOTE:
1) MIN TRENCH WIDTH "W" SHALL BE THE PIPE O.D. PLUS 12".
2) RCP = REINFORCED CONCRETE PIPE;
3) HDPE = HIGH DENSITY POLYETHYLENE PIPE

TYPICAL PIPE TRENCH (10 / C-301)

NOT TO SCALE



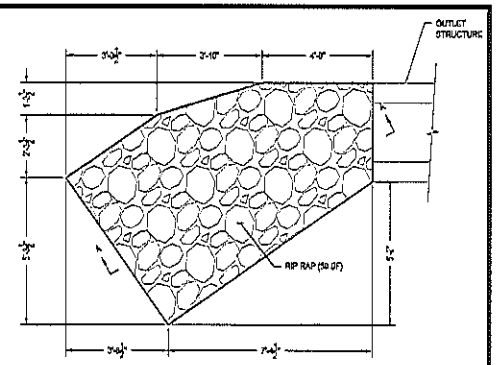


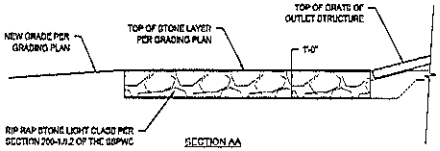
NOTE:
1. HEAD AND SIDE WALLS SHALL BE PER CALTRANS STND PLAN NO.D89 MODIFIED AS SHOWN ABOVE.
2. SEE PLAN AND PROFILE SHEET FOR GRADING
3. FRAME AND GRATE SHALL BE PER SPPWC NO.311 EXCEPT GRATE SHALL BE GRATE 1345 AS MANUFACTURED BY TRIDENT EXPORT CORPORATION OR APPROVED EQUAL.
4. SIDEWALL REINFORCING SHALL EXTEND INTO HEADWALL WITH A MIN 18" LENGTH IN HEADWALL. TURN REBAR TO AVOID PIPE.

OUTLET STRUCTURE (11 / C-301)

1" = 2'-0"

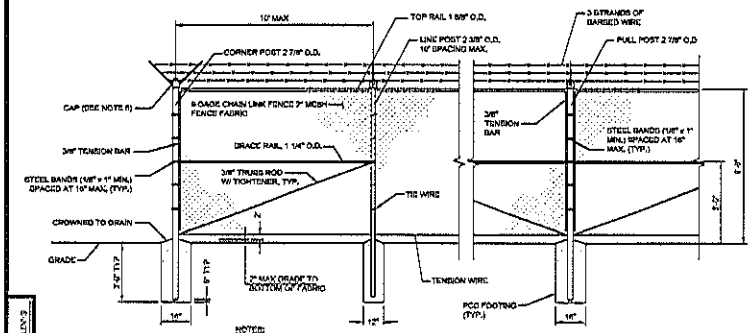
SIDEWALL REINFORCING SHALL EXTEND INTO HEADWALL WITH MINIMUM 18" LENGTH IN HEADWALL. REBAR SHALL BE TURNED TO AVOID PIPE AND TO MAXIMIZE LENGTH WITHIN HEADWALL.





RIP-RAP (12 / C-301)

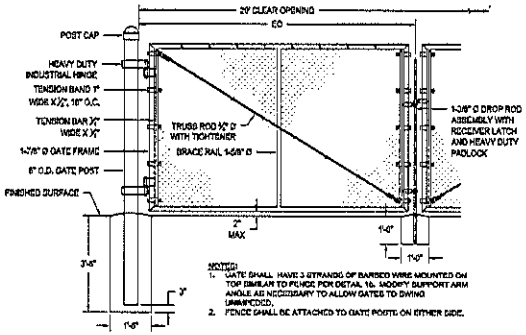
1" = 2'-0"



NOTES:
1. SHACK ALL PULL, CORNER AND GATE POSTS AS SHOWN.
2. PULL POST SHALL BE INSTALLED EVERY 300 FEET OR AT BREAK IN GRADE.
3. TOP RAIL SHALL BE INSTALLED ALONG THE WHOLE LENGTH OF THE FENCE.
4. ALL FABRIC SHALL BE INSTALLED ON LAND SIDE (NON-SECURE SIDE) OF FENCE.
5. SECURE DRIVCRIT GALVANIZED CAP TO POST WITH #8W (1/4") ROUND HEAD RIVET.
6. SEE DETAIL 15 FOR BARBED WIRE DETAILS NOT SHOWN HERE

TYPICAL 6' AIRPORT SECURITY FENCE (WITH BARBED WIRE) (13 / C-206, C-301)

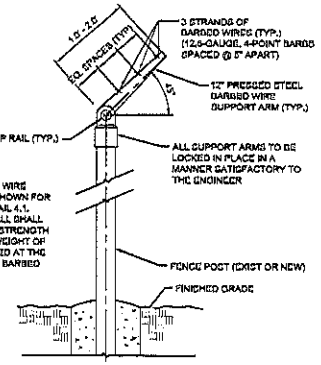
NOT TO SCALE



NOTES:
1. GATE SHALL HAVE 3 STRANDS OF BARBED WIRE MOUNTED ON TOP SIMILAR TO FENCE PER DETAIL 16. MODIFY SUPPORT ARM ANGLE AS NECESSARY TO ALLOW GATES TO SWING UNIMPEDED.
2. FENCE SHALL BE ATTACHED TO GATE POSTS ON EITHER SIDE.

20-FT DOUBLE SWING GATE (14 / C-206)

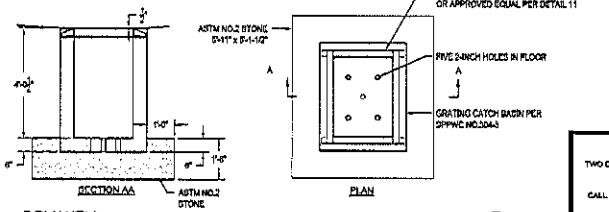
1" = 2'-0"



NOTES:
1. ONLY ONE BARBED WIRE SUPPORT ARM IS SHOWN FOR CLARITY. SEE DETAIL 4.1.
2. SUPPORT ARM SHALL SHALL BE OF SUFFICIENT STRENGTH TO WITHSTAND A WEIGHT OF 250 POUNDS APPLIED AT THE OUTER STRAND OF BARBED WIRE.

BARBED WIRE SUPPORT ARM DETAIL (15 / C-206, C-301)

NOT TO SCALE



DRY WELL (16 / C-206)

1" = 2'-0"

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REGISTERED PROFESSIONAL ENGINEER
PETER D. BONELLI
No. 047579
No. 12/31/11
CIVIL
STATE OF CALIFORNIA

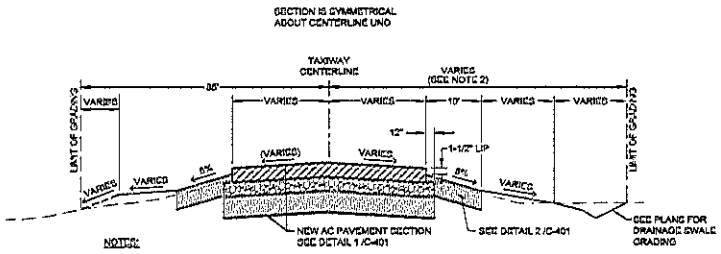
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

DETAILS 9 - 16

JOB NO. | DWG. C-302 | SHEET 14 OF 18

DATE	SCALE	SCALE	SCALE
8/25	1/20	1/8	1/2

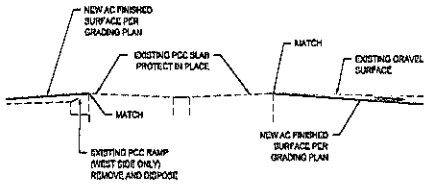


NOTES:

1. SEE HORIZONTAL CONTROL PLANS FOR TAXIWAY WIDTHS
2. SEE GRADING PLANS AND CROSS SECTIONS FOR CROSS FALLS.
3. CROSS FALL VARIES LINEARLY BETWEEN STATIONS
4. SEE TYPICAL SECTIONS FOR EDGE CONDITIONS WHERE NEW OR EXISTING STRUCTURES APPLY.
5. AREA TO BE CLEARED AND GRUBBED INCLUDES THE AREA BETWEEN EXISTING PAVEMENT EDGE (NOT SHOWN) AND LIMITS OF GRADING.
6. 5% SHOULDER MAY VARY AT APPROACH TO JOINS

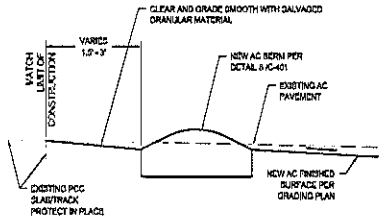
TYPICAL TAXIWAY SECTION (A / C-201-6)

NOT TO SCALE



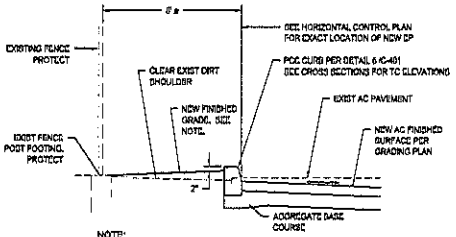
TYPICAL DETAIL AT FUEL STATION (BB / C-204)

NOT TO SCALE



TYPICAL DETAIL AT OLD HANGAR SLAB (CC / C-204-6)

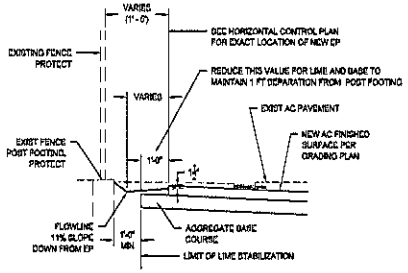
NOT TO SCALE



NOTE:
WHERE GRADE AT FENCE IS HIGHER THAN 2" BELOW BACK OF CURB GRADE LOW POINT TO BE 4" BELOW AND 2 FEET AWAY FROM TOP OF BACK OF CURB.

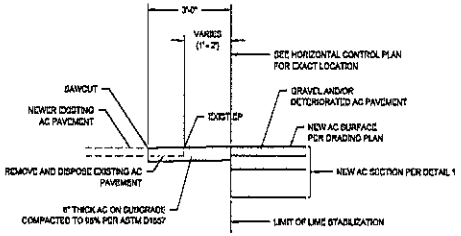
TYPICAL DETAIL AT TIE-DOWNS (DD / C-204-6)

1" = 2'-0"



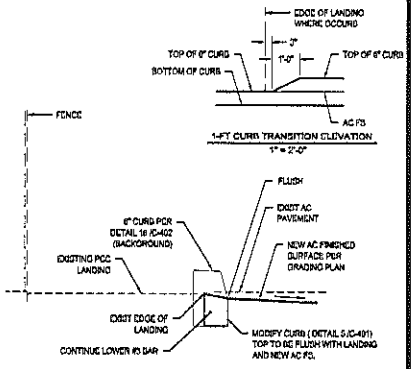
TYPICAL DETAIL EP AT FENCE (EE / C-206)

1" = 2'-0"



TYPICAL DETAIL AT GRAN PLAZA ENTRY (FF / C-206)

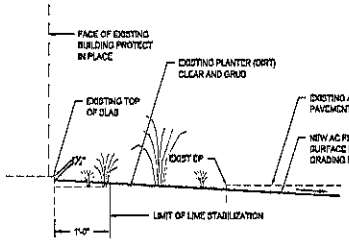
1" = 2'-0"



NOTE:
1. TRANSITION CURB HEIGHT PER 1-FT CURB TRANSITION ELEVATION ABOVE

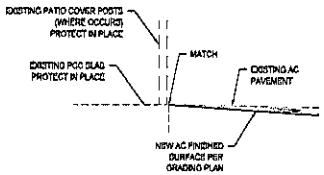
TYPICAL DETAIL AT 2ND STREET LANDING (GG / C-206)

NOT TO SCALE



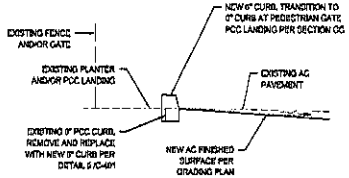
TYPICAL DETAIL NORTH OF RESTAURANT (HH / C-206)

NOT TO SCALE



TYPICAL DETAIL AT EXISTING PCC PATIO (II / C-206)

NOT TO SCALE



TYPICAL DETAIL AT EXISTING 0" CURB (JJ / C-206)

NOT TO SCALE

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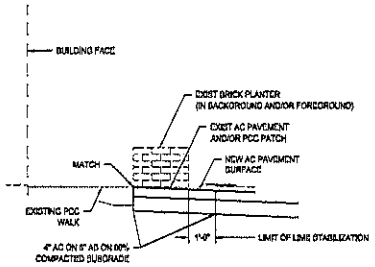
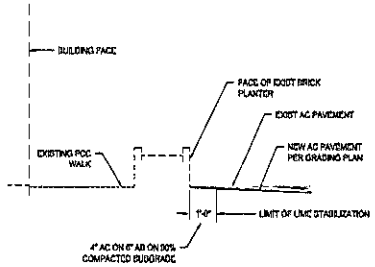
TAXIWAY A REHABILITATION

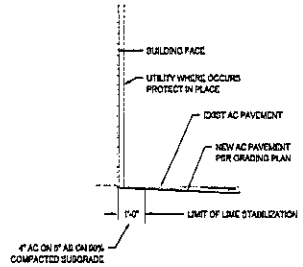
TYPICAL SECTIONS A - JJ



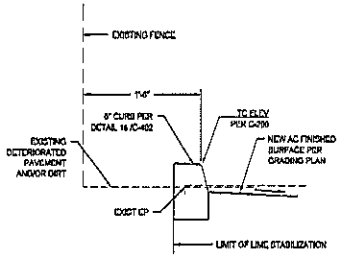
TYPICAL DETAIL AT BREAKS IN BRICK PLANTER (KK / C-206)
NOT TO SCALE



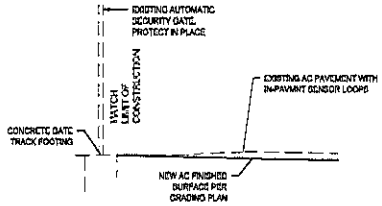
TYPICAL DETAIL AT BRICK PLANTER (LL / C-206)
NOT TO SCALE



TYPICAL DETAIL AT BUILDING FACE (MM / C-206)
NOT TO SCALE

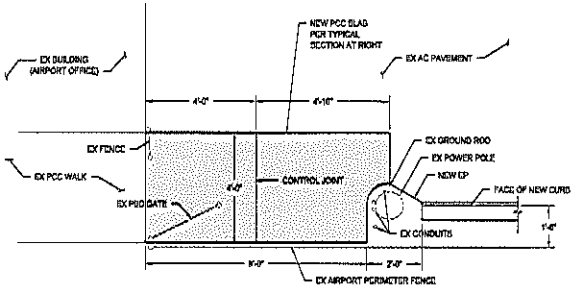


TYPICAL DETAIL PAVEMENT AT FENCE (NN / C-206)
NOT TO SCALE



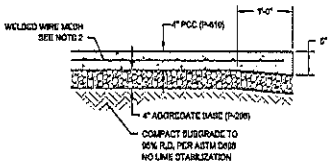
NOTES:
1. REPLACE EXISTING IN-PAVMNT GATE SENSOR LOOPS

TYPICAL DETAIL AT AIRPORT AUTOMATIC GATE (OO / C-206)
NOT TO SCALE



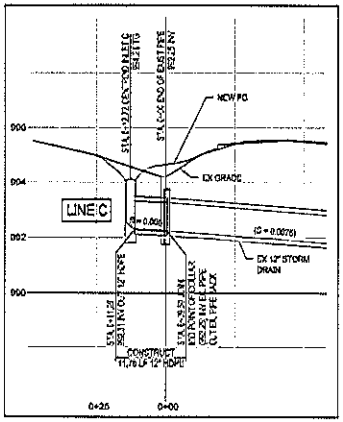
NOTES
1. MAINTAIN 3 INCHES SEPARATION FROM POWER POLE / CONDUITS
2. ADJUST EX PED GATE TO SWING 1" - 2" ABOVE NEW PCC SLAB SURFACE

PCC SLAB AT OFFICE PED GATE (17 / C-206)
1" = 2"

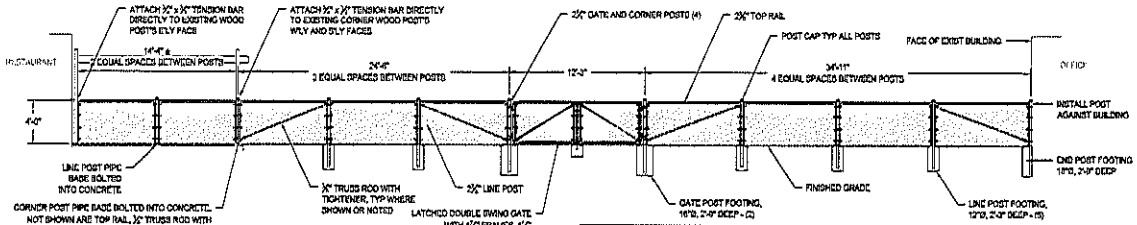


NOTES
1. CONTROL JOINT SHALL BE 1/4 INCH WIDE AND 1-1/4 INCH DEEP.
2. CONCRETE SHALL BE CONTINUALLY REINFORCED WITH WWR 6x6 W1.4xW1.4 LOCATED TWO INCHES DOWN FROM THE FINISHED SURFACE, MINIMUM 2 INCHES CLEAR ALL AROUND.

TYPICAL SECTION PCC SLAB (18 / C-206)
1" = 1'-0"



LINE C STORM DRAIN EXTENSION PROFILE (20 / C-204)
1" = 20' (H)
1" = 2' (V)



NOTE: REFER TO FENCE AND GATE DETAILS 13 AND 14 ON SHEET C-402 FOR INFORMATION NOT SHOWN.

4-FT CHAIN LINK FENCE AND GATE (19 / C-206)
1" = 5'

DOC PCC 2011.1.1	C-4.1-4 DETAILS AND SECTIONS 3		
2-12-11	P.S.		
10-10-11	P.S.		
10-17-11	P.S.		

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DATE	BY	DESCRIPTION

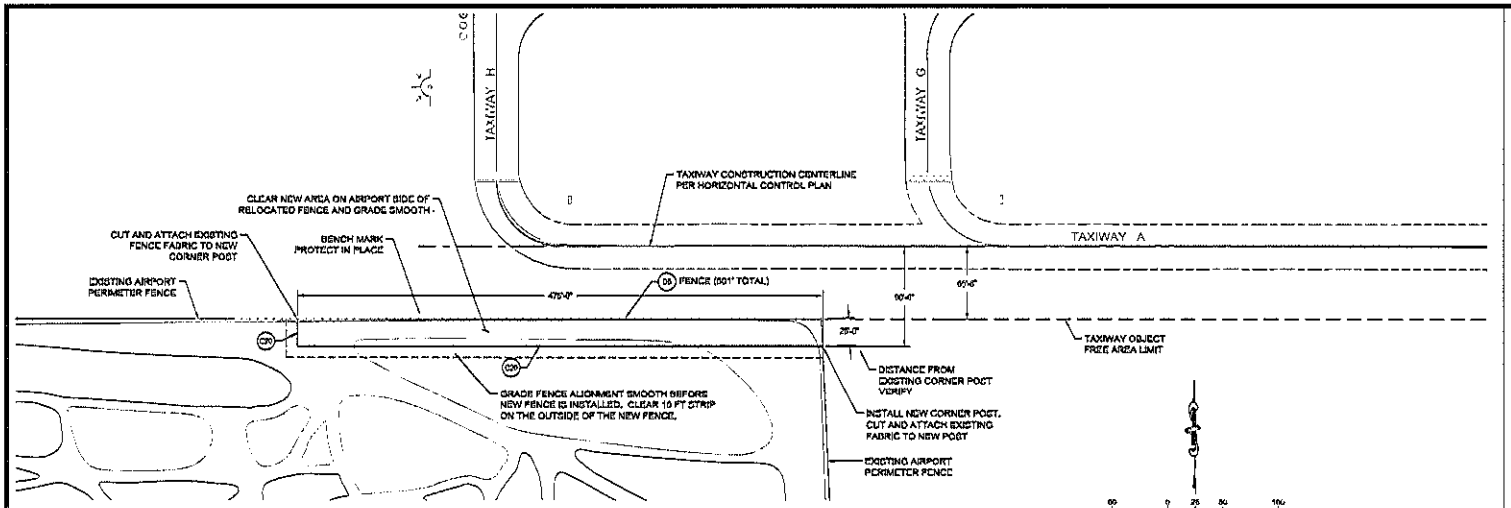
REVISIONS

AE Consulting, Inc.
143 Yorba Street
Tustin, CA 92780
(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER PETER D. MORETTI No. 047575 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

CITY OF CALEXICO
CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
TYPICAL SECTIONS KK - OO
AND DETAILS 17 - 20

JOB NO. | DWG. | SHEET 14 OF 14



FENCE RELOCATION - BASE BID

DISPOSITION NOTES

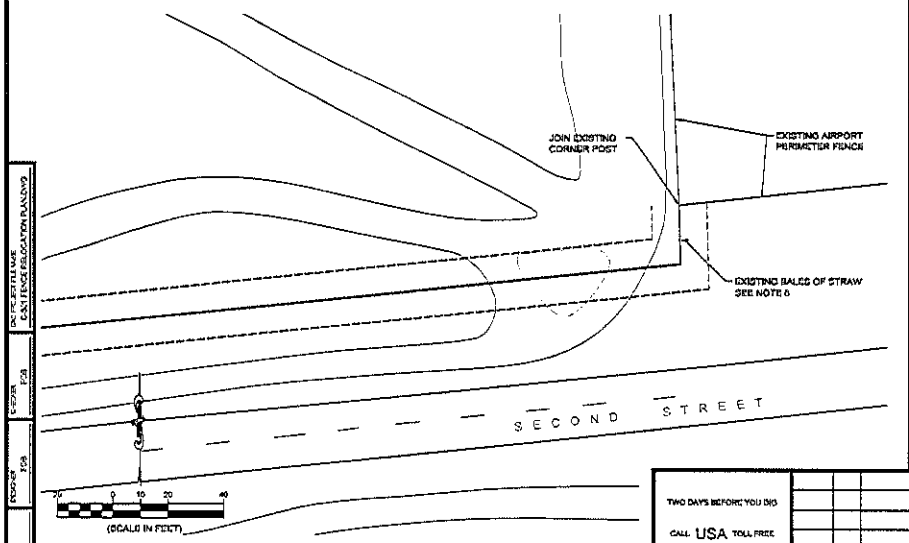
(D8) REMOVE AND DISPOSE

CONSTRUCTION NOTES

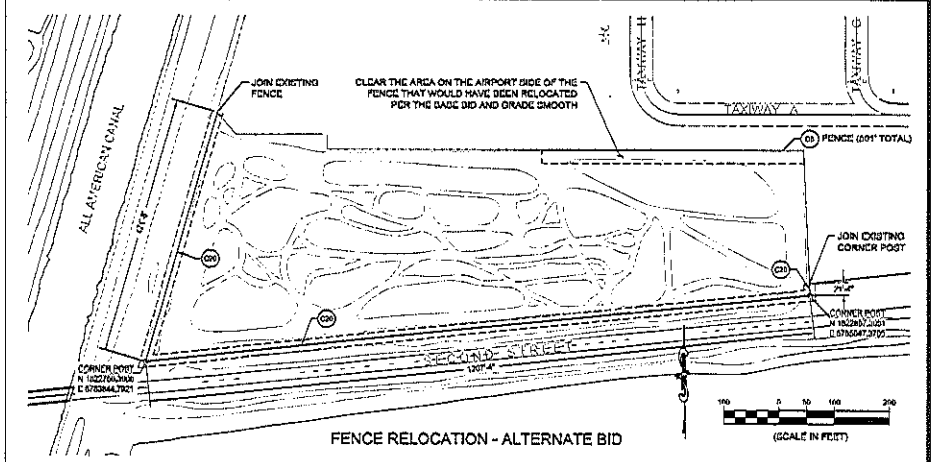
(C20) CONSTRUCT 6-FT CHAIN LINK FENCE PER DETAIL 13 ON SHT C-402

NOTES

1. THE FAA/SPONSOR WILL SELECT EITHER THE BASE BID OR THE ALTERNATE BID SHOWN HEREON FOR CONSTRUCTION.
2. BRUSH AND DEBRIS CLEARED FOR THE BASE BID SHALL BE DISPOSED OF OFF SITE.
3. EARTH REMOVED TO FACILITATE GRADING A SMOOTH ALIGNMENT SHALL BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE ENGINEER.
4. TO MAINTAIN AIRPORT SECURITY THE REMOVAL OF FENCING (BASE BID) SHALL OCCUR AFTER THE NEW FENCE IS INSTALLED.
5. REMOVAL AND DISPOSAL OF THE EXISTING FENCE FOR THE BASE BID SHALL ALSO INCLUDE REMOVAL AND DISPOSAL OF THE FENCE POST FOOTINGS OFF-SITE.
6. THE EXISTING BALES OF STRAW THAT ARE CLUSTERED AT THE E'LY JOIN LOCATION OF BID ALTERNATE (SEE PLAN) SHALL BE MOVED AWAY FROM THE NEW FENCE ALIGNMENT AND PLACED IN A ROW ONE BALE HIGH BETWEEN THE FENCE AND SECOND STREET, A MINIMUM OF 15 FT AWAY FROM THE NEW OR EXISTING AIRPORT FENCE.



FENCE RELOCATION - ALTERNATE BID
ENLARGED PLAN AT E'LY END



FENCE RELOCATION - ALTERNATE BID

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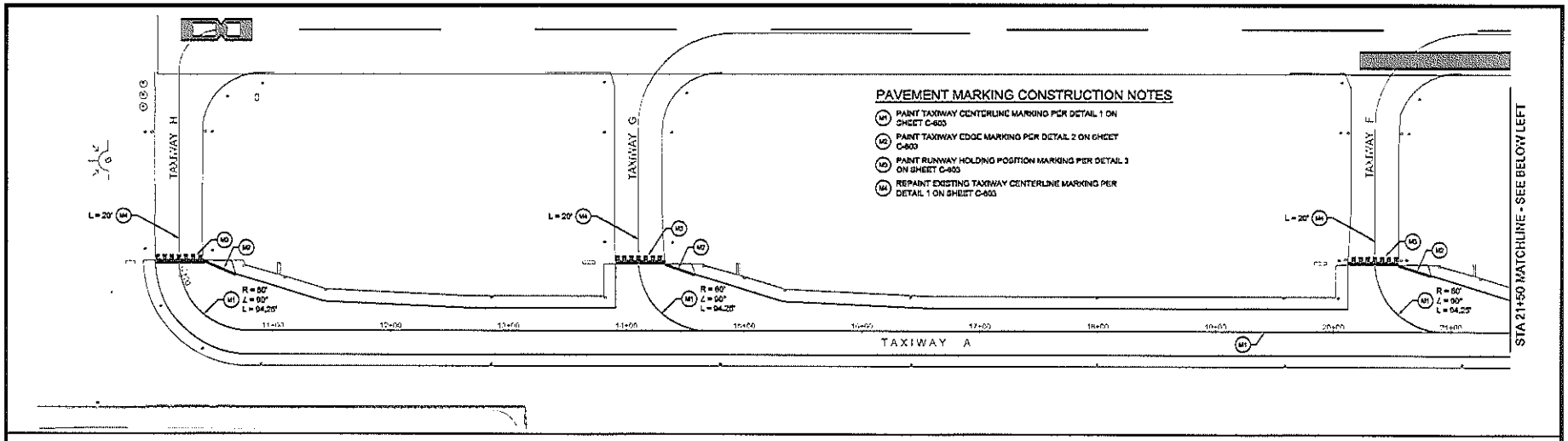
CITY OF CALEXICO

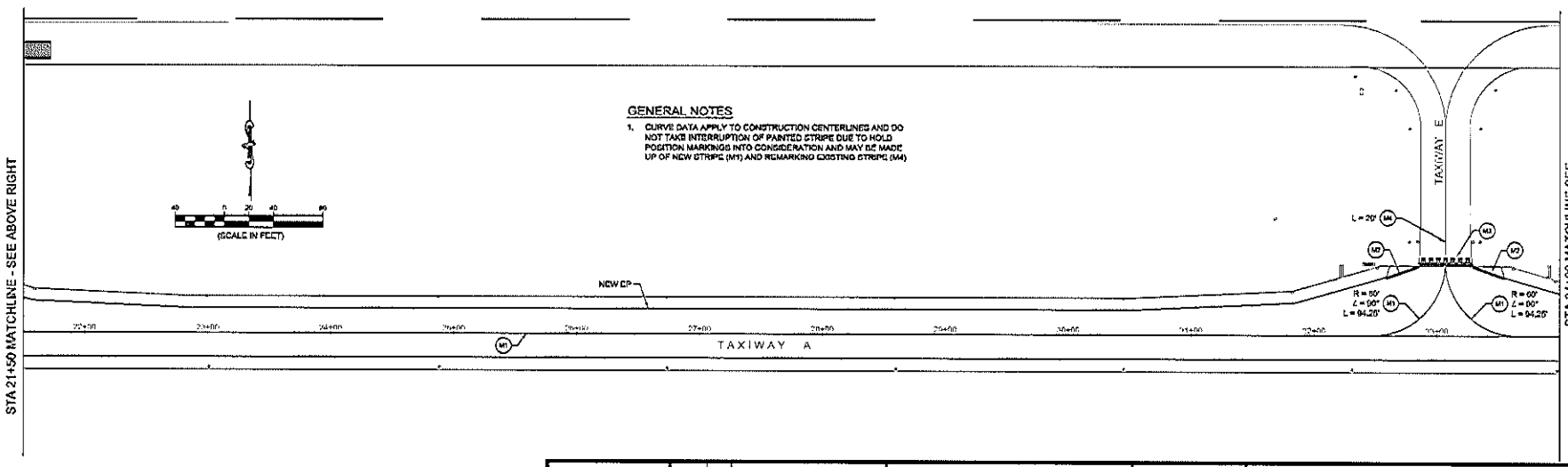
CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
PERIMETER FENCE RELOCATION

JOB PARA | DWG | SHEET 10 OF 16



PAVEMENT MARKING CONSTRUCTION NOTES

- (M1) PAINT TAXIWAY CENTERLINE MARKING PER DETAIL 1 ON SHEET C-603
- (M2) PAINT TAXIWAY EDGE MARKING PER DETAIL 2 ON SHEET C-603
- (M3) PAINT RUNWAY HOLDING POSITION MARKING PER DETAIL 3 ON SHEET C-603
- (M4) REPAINT EXISTING TAXIWAY CENTERLINE MARKING PER DETAIL 1 ON SHEET C-603



GENERAL NOTES

1. CURVE DATA APPLY TO CONSTRUCTION CENTERLINES AND DO NOT TAKE INTERRUPTION OF PAINTED STRIPE DUE TO HOLD POSITION MARKINGS INTO CONSIDERATION AND MAY BE MADE UP OF NEW STRIPE (M1) AND REMARKING EXISTING STRIPE (M4)

KEY PLAN

TWO DAYS BEFORE YOU DIG

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DATE	BY	DESCRIPTION

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CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

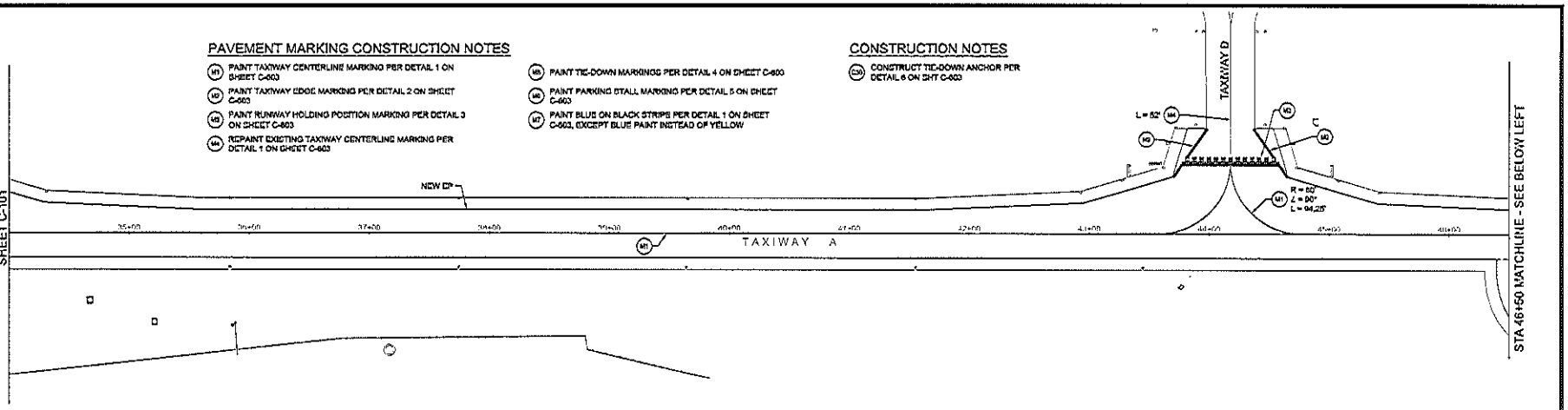
PAVEMENT MARKING PLAN 1

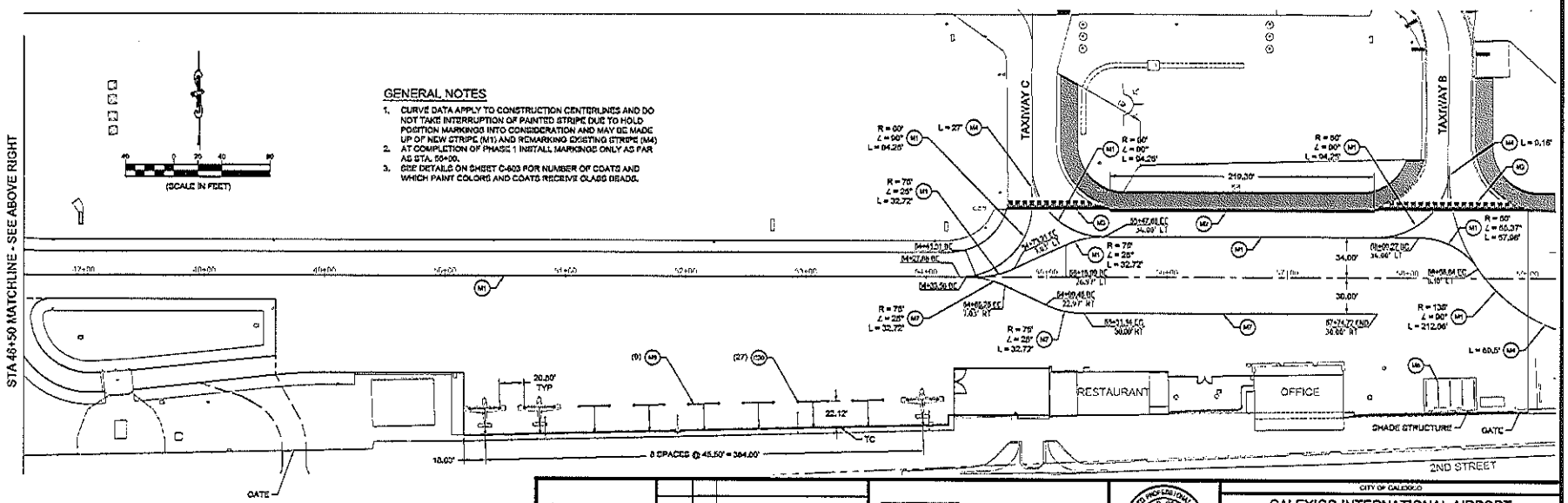
PAVEMENT MARKING CONSTRUCTION NOTES

- (M1) PAINT TAXIWAY CENTERLINE MARKING PER DETAIL 1 ON SHEET C-603
- (M2) PAINT TAXIWAY EDGE MARKING PER DETAIL 2 ON SHEET C-603
- (M3) PAINT RUNWAY HOLDING POSITION MARKING PER DETAIL 3 ON SHEET C-603
- (M4) REPAINT EXISTING TAXIWAY CENTERLINE MARKING PER DETAIL 1 ON SHEET C-603
- (M5) PAINT TIE-DOWN MARKINGS PER DETAIL 4 ON SHEET C-603
- (M6) PAINT PARKING STALL MARKING PER DETAIL 5 ON SHEET C-603
- (M7) PAINT BLUE ON BLACK STRIPE PER DETAIL 1 ON SHEET C-603, EXCEPT BLUE PAINT INSTEAD OF YELLOW

CONSTRUCTION NOTES

- (C30) CONSTRUCT TIE-DOWN ANCHOR PER DETAIL 6 ON SHT C-603





GENERAL NOTES

1. CURVE DATA APPLY TO CONSTRUCTION CENTERLINES AND DO NOT TAKE INTERRUPTION OF PAINTED STRIPE DUE TO HOLD POSITION MARKINGS INTO CONSIDERATION AND MAY BE MADE UP OF NEW STRIPE (M1) AND REMARKING EXISTING STRIPE (M4)
2. AT COMPLETION OF PHASE 1 INSTALL MARKINGS ONLY AS FAR AS STA. 55+00.
3. SEE DETAILS ON SHEET C-603 FOR NUMBER OF COATS AND WHICH PAINT COLORS AND COATS RECEIVE GLASS BEADS.

KEY PLAN

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CITY OF CALEXICO

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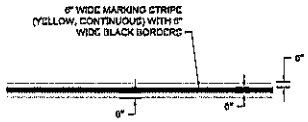
TAXIWAY A REHABILITATION
PAVEMENT MARKING PLAN 2

JOB NUMBER | DRAWING C-602 | SHEET 21 OF 38

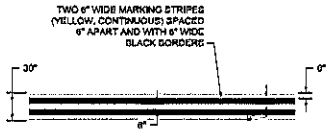


NOTE:

1. TAXIWAY CENTERLINE MARKINGS SHALL BE INTERRUPTED AT RUNWAY HOLDING POSITION MARKINGS. SEE DETAIL 3.
2. CENTERLINE MARKING SHALL BE CENTERED ON CONSTRUCTION CENTERLINE UNLESS NOTED OTHERWISE.
3. PAINT BLACK BACKGROUND FIRST.
4. THE YELLOW PAINT FOR TAXIWAY CENTERLINES SHALL RECEIVE TWO COATS. THE SECOND COAT FOR BOTH PHASES SHALL OCCUR 30 DAYS AFTER PHASE 2 IS COMPLETE AND SHALL RECEIVE GLASS BEADS.
5. THE PAINTING OF EXISTING TAXIWAY CENTERLINES SHALL RECEIVE ONE COAT AND SHALL OCCUR 30 DAYS AFTER PHASE 2 IS COMPLETE. THE YELLOW PAINT SHALL RECEIVE GLASS BEADS.
6. THE BLUE PAINT FOR THE BLUE ON BLACK STRIPE SHALL RECEIVE TWO COATS. THE SECOND COAT FOR BOTH PHASES SHALL OCCUR 30 DAYS AFTER PHASE 2 IS COMPLETE AND SHALL RECEIVE GLASS BEADS.

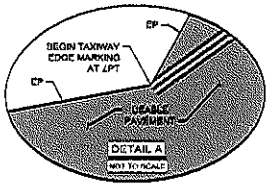
TAXIWAY CENTERLINE MARKING — 1 / C-601-2

NOT TO SCALE



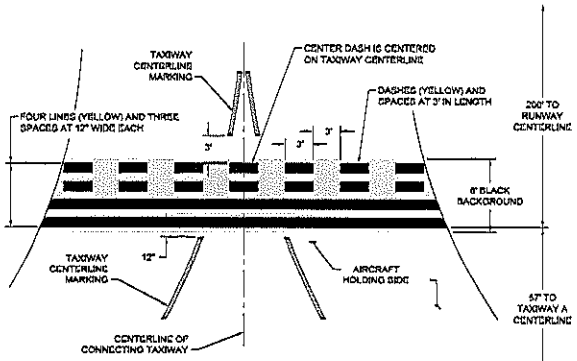
NOTE:

1. OUTSIDE EDGE OF OUTER YELLOW STRIPE SHALL ALIGN WITH EDGE OF USABLE TAXIWAY PAVEMENT SEE DETAIL A AT RIGHT.
2. TAXIWAY EDGE MARKINGS SHALL BE INTERRUPTED AT RUNWAY HOLDING POSITION MARKINGS PER DETAIL B, BELOW.
3. PAINT BLACK BACKGROUND FIRST.
4. YELLOW PAINT FOR TAXIWAY EDGE MARKINGS SHALL RECEIVE TWO COATS. THE SECOND COAT FOR BOTH PHASES SHALL OCCUR 30 DAYS AFTER PHASE 2 IS COMPLETE AND SHALL RECEIVE GLASS BEADS.



TAXIWAY EDGE MARKING — 2 / C-601-2

NOT TO SCALE

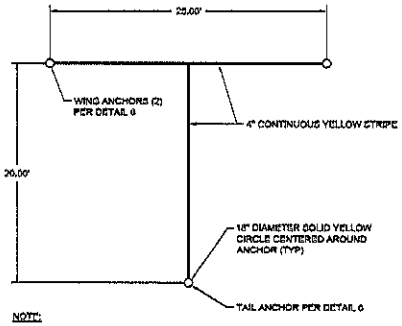


NOTE:

1. BLACK BACKGROUND SHALL BE PAINTED AS A SOLID RECTANGLE. YELLOW MARKINGS SHALL BE APPLIED OVER BLACK PAINT.
2. RUNWAY HOLDING POSITION MARKINGS SHALL BE PARALLEL TO TAXIWAY A CENTERLINE.
3. YELLOW PAINT FOR RUNWAY HOLDING POSITION MARKINGS SHALL RECEIVE TWO COATS. THE SECOND COAT FOR BOTH PHASES SHALL OCCUR 30 DAYS AFTER PHASE 2 IS COMPLETE AND SHALL RECEIVE GLASS BEADS.

RUNWAY HOLDING POSITION MARKING — 3 / C-601-2

NOT TO SCALE

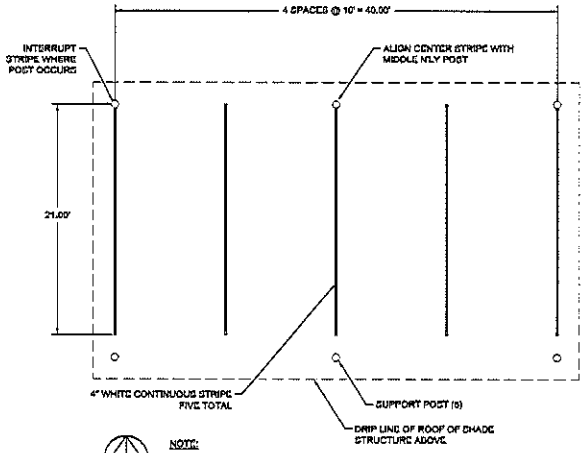


NOTE:

1. PAINT FOR TIE-DOWN MARKINGS SHALL RECEIVE ONE COAT WITH NO GLASS BEADS
2. TIE-DOWN MARKINGS SHALL BE INSTALLED DURING PHASE 2 AND SHALL THUS BE CONSIDERED PHASE 2 MARKING.

TIE-DOWN MARKING — 4 / C-602

1" = 5'-0"

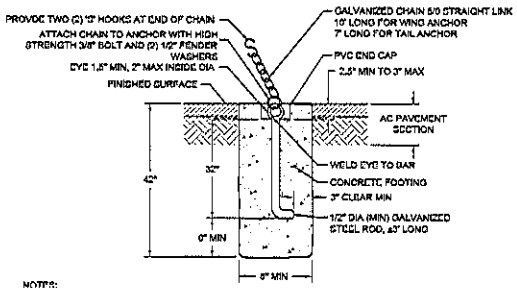


NOTE:

1. PAINT FOR SHADE STRUCTURE PARKING STALLS SHALL RECEIVE ONE COAT WITH NO GLASS BEADS AND SHALL BE INSTALLED 30 DAYS AFTER PHASE 2 IS COMPLETE.

SHADE STRUCTURE PARKING STALLS — 5 / C-602

1" = 5'-0"

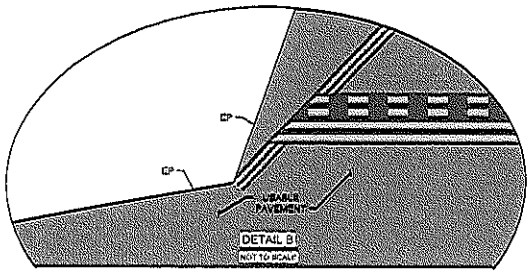


NOTES:

1. EYE BOLT SHALL BE MANUFACTURED FROM HIGH STRENGTH STEEL, GALVANIZED PER ASTM A153
2. IF THE CONTRACTOR ELECTS TO AUGER DRILL THROUGH NEW AC PAVEMENT SECTION TO INSTALL TIE DOWN ANCHORS, THE CONTRACTOR SHALL PROTECT THE PAVEMENT FROM (1) DAMAGING ADJACENT SURFACE, (2) DISTURBING BASE LAYER AND (3) DISCOLORATION OF ADJACENT SURFACE BY PLACING A PROTECTIVE MEMBRANE ON THE PAVEMENT AS NECESSARY.
3. ALL HARDWARE AND "S" HOOKS SHALL BE GALVANIZED

TIEDOWN ANCHOR — 6 / C-602

NOT TO SCALE



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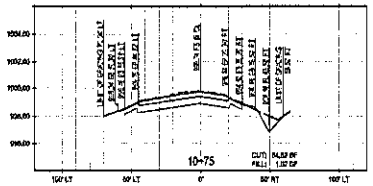
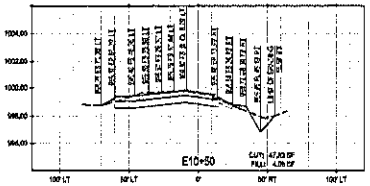
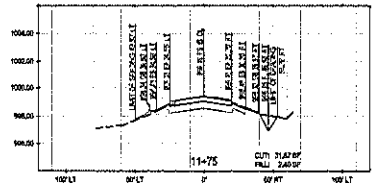
TAXIWAY A REHABILITATION

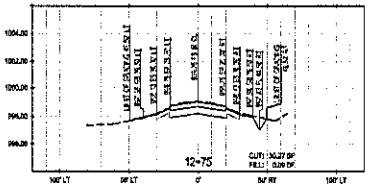
PAVEMENT MARKING DETAILS

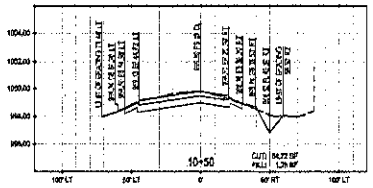
DESIGNED P.S.	DRAWN P.S.	CHECKED P.S.	CALTRANS DETAILS 1-2-3
JOB NO.	DWG.	SHEET	OF

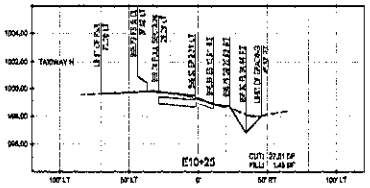


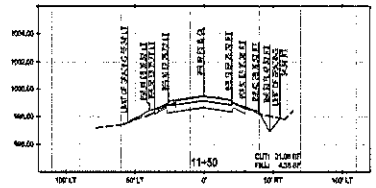


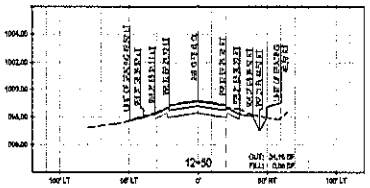


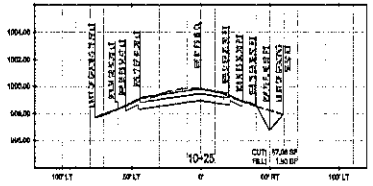


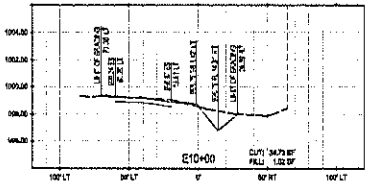


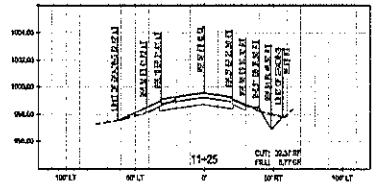


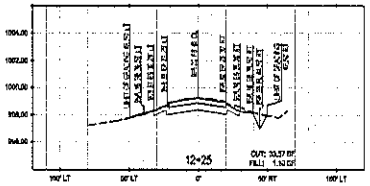


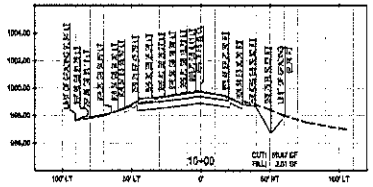


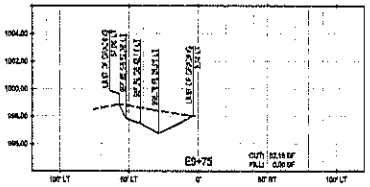


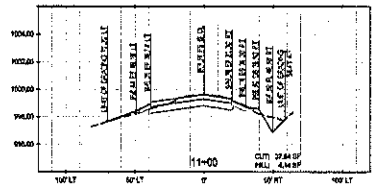


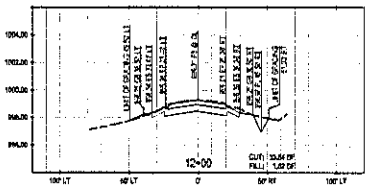






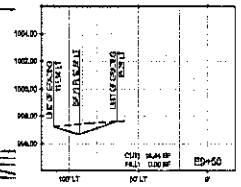


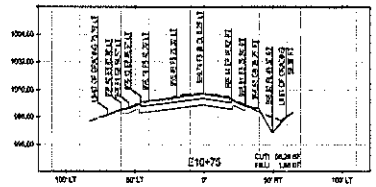




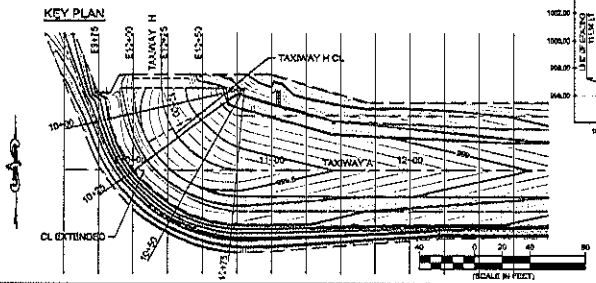
SECTIONS 10+00 THROUGH 10+75 ARE RADIAL TO THE CURVED CENTERLINE OF TAXIWAY H

SECTIONS E9+50 THROUGH E10+75 ARE PERPENDICULAR TO TAXIWAY A CL EXTENDED





KEY PLAN



RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
09+14	-	-	-	-
09+50	16.44	-	4.90	-
09+75	52.15	-	33.75	-
10+00	34.73	1.02	40.22	0.47
10+25	77.51	1.45	94.81	1.14
10+50	47.83	4.05	54.88	2.55
10+75	56.76	1.35	48.20	2.73
11+00	37.64	4.14	43.48	2.77
11+25	32.37	5.77	32.41	4.59
11+50	31.09	4.38	29.37	4.70
11+75	31.47	2.40	29.13	3.14
12+00	33.54	1.62	30.35	1.86
12+25	33.37	1.19	31.07	1.76
12+50	34.15	0.06	31.26	0.92
12+75	30.27	0.09	29.82	0.73
SUBTOTAL THIS SHEET ONLY			445.60	26.86
CUMULATIVE SUBTOTAL			445.60	26.86

(VERTICAL SCALE IN FEET)

(HORIZONTAL SCALE IN FEET)

NOTES:

1. GRADE BETWEEN LABELED POINTS IS ASSUMED STRAIGHT UNLESS NOTED OTHERWISE OR UNLESS OBJECTS DICTATE OTHERWISE AND ARE NOT LABELED FOR CLARITY.
2. CROSS-SECTIONAL AREAS OF CUT AND FILL INDICATED ARE CALCULATED BETWEEN THE BOTTOM OF EXISTING AC PAVEMENT AND NEW PAVEMENT SUBGRADE OR FINISHED GRADE.
3. EXISTING PAVEMENT AND GROUND SURFACE IS OBTAINED FROM FIELD SURVEYS PERFORMED IN 2019. EXISTING PAVEMENT THICKNESS IS ASSUMED TO BE 5.5 INCHES U.N.O.

TWO DAYS BEFORE YOU DIG

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DATE	BY	DESCRIPTION

REVISIONS

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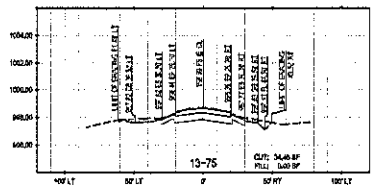
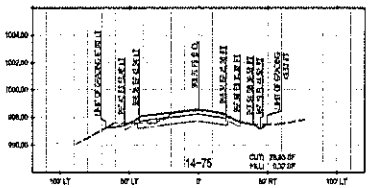
REGISTERED PROFESSIONAL ENGINEER
PETER D. ROBERTS
No. C47879
Exp. 12/31/21
CIVIL
STATE OF CALIFORNIA

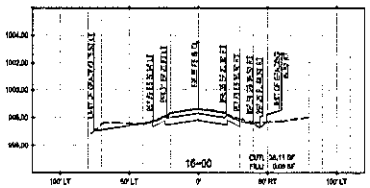
CITY OF CALEXICO

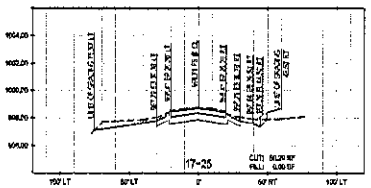
CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CROSS SECTIONS
9+50 - 12+75

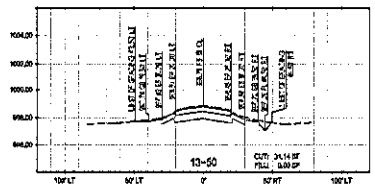
JOB NO. | DWG. C-710 | SHEET 20 OF 36

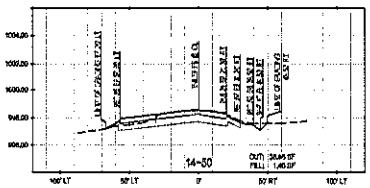


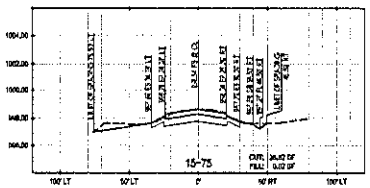


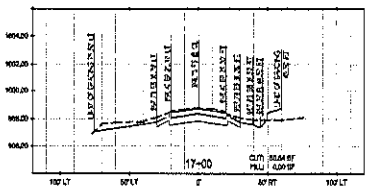


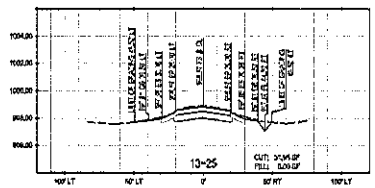


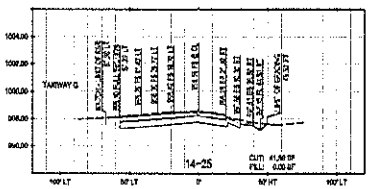


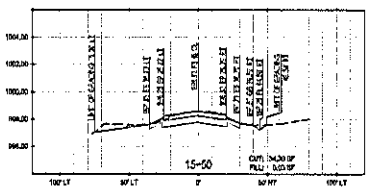


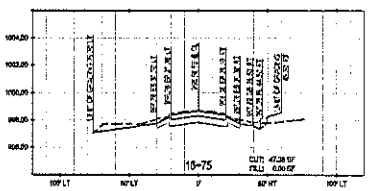


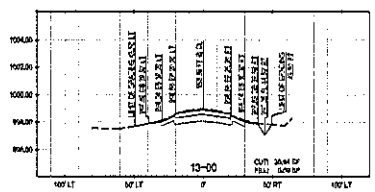


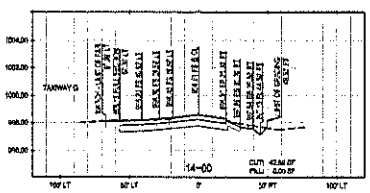


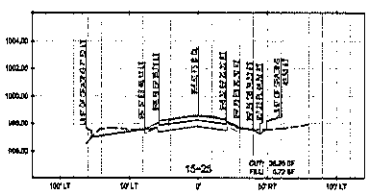


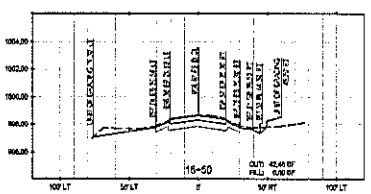


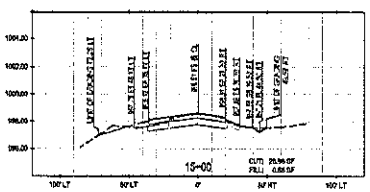


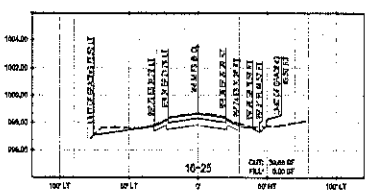










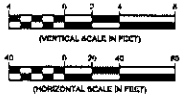


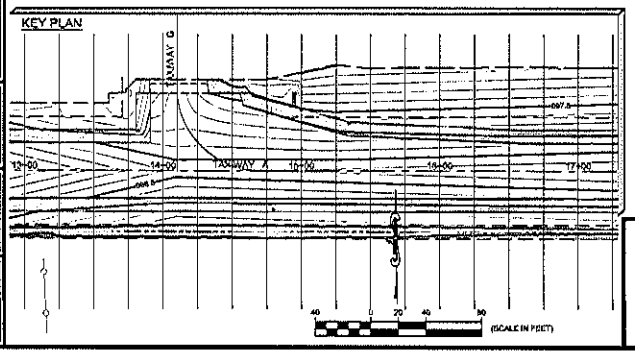
RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
12+75	30.27	0.69	-	-
13+00	30.94	0.00	28.54	0.38
13+25	31.95	-	29.12	0.04
13+50	33.14	-	29.21	-
13+75	34.48	-	30.58	-
14+00	42.59	-	33.68	-
14+25	41.59	-	38.97	-
14+50	25.65	1.40	35.76	0.65
14+75	28.53	0.32	29.71	0.80
15+00	26.09	0.61	25.69	0.16
15+25	25.26	0.73	28.83	0.74
15+50	34.30	0.02	32.70	0.15
15+75	36.52	0.02	32.79	0.02
16+00	36.11	0.08	33.83	0.05
16+25	39.65	-	35.07	0.04
16+50	42.46	-	38.01	-
16+75	47.28	-	41.59	-
17+00	50.64	-	45.38	-
17+25	50.29	-	46.73	-
SUBTOTAL THIS SHEET ONLY			617.66	3.40
CUMULATIVE SUBTOTAL			1,063.66	30.45

NOTES:

1. GRADE BETWEEN LABELED POINTS IS ASSUMED STRAIGHT UNLESS NOTED OTHERWISE OR UNLESS OBJECTS DICTATE OTHERWISE AND ARE NOT LABELED FOR CLARITY.
2. CROSS-SECTIONAL AREAS OF CUT AND FILL INDICATED ARE CALCULATED BETWEEN THE BOTTOM OF EXISTING AC PAVEMENT AND NEW PAVEMENT SUBGRADE OR FINISHED GRADE.
3. EXISTING PAVEMENT AND GROUND SURFACE IS OBTAINED FROM FIELD SURVEYS PERFORMED IN 2019. EXISTING PAVEMENT THICKNESS IS ASSUMED TO BE 5.5 INCHES U.N.O.





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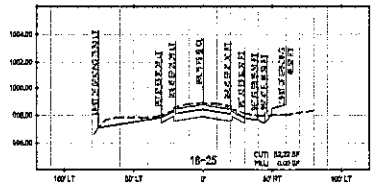
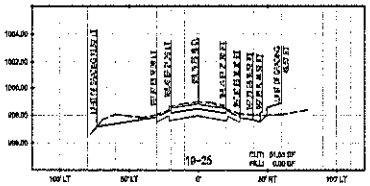
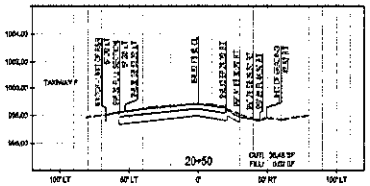
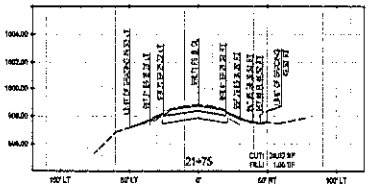
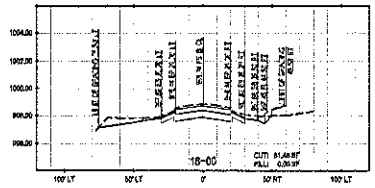
SHEET 24 OF 30

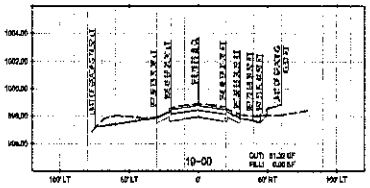


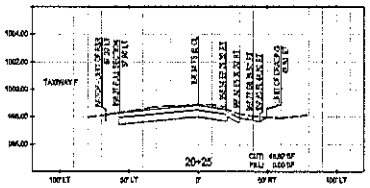


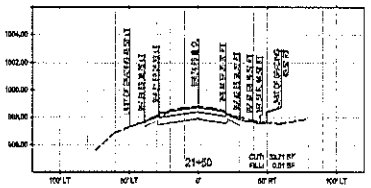


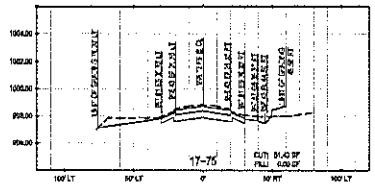


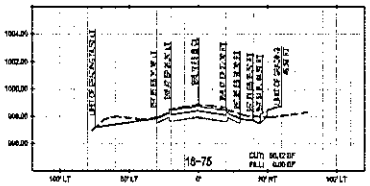


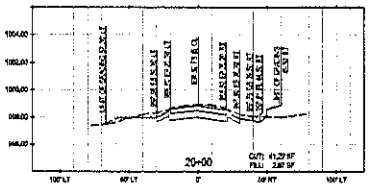


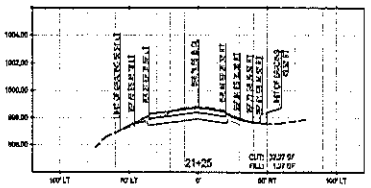


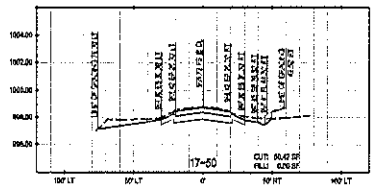


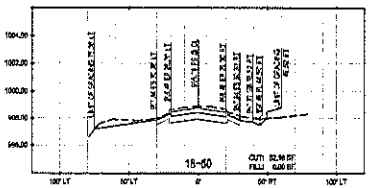


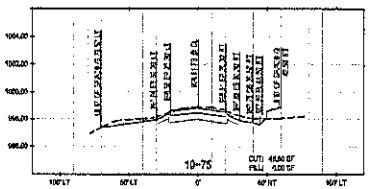


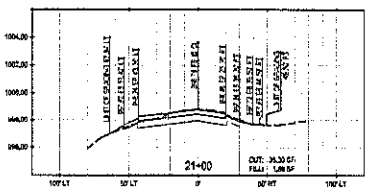


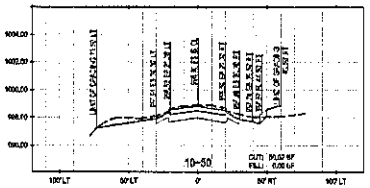


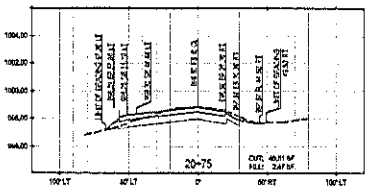


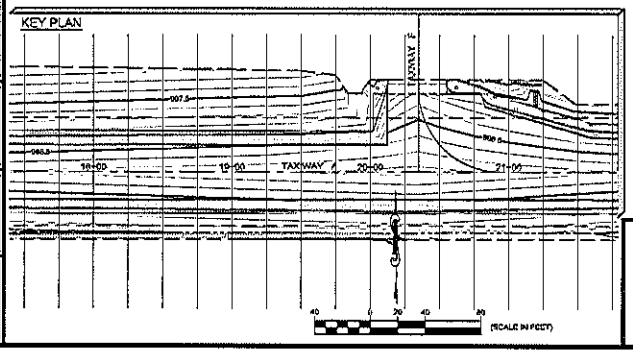












RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
17+75	50.39	-		
17+50	50.43	-	46.63	-
17+75	51.42	-	47.15	-
18+00	51.48	-	47.64	-
18+25	52.22	-	48.05	-
18+50	52.16	-	48.32	-
18+75	50.12	-	47.35	-
19+00	51.32	-	46.96	-
19+25	51.33	-	47.62	-
19+50	50.02	-	47.05	-
19+75	46.30	-	44.69	-
20+00	41.29	2.47	40.41	1.71
20+25	46.82	-	41.69	1.33
20+50	36.48	0.03	40.49	0.01
20+75	40.51	2.47	39.57	1.15
21+00	35.30	1.06	35.10	2.01
21+25	32.27	1.27	31.28	1.46
21+50	33.71	0.01	30.55	0.59
21+75	26.02	1.06	28.58	0.66
SUBTOTAL THIS SHEET ONLY			796.14	9.38
CUMULATIVE SUBTOTAL			1,818.82	38.83

NOTES:

1. GRADE BETWEEN LABELED POINTS IS ASSUMED STRAIGHT UNLESS NOTED OTHERWISE OR UNLESS OBJECTS DICTATE OTHERWISE AND ARE NOT LABELED FOR CLARITY.
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(HORIZONTAL SCALE IN FEET)

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CROSS SECTIONS
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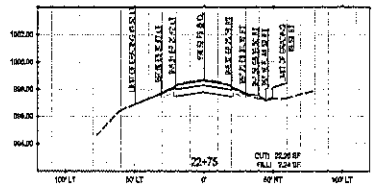
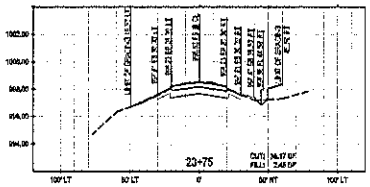
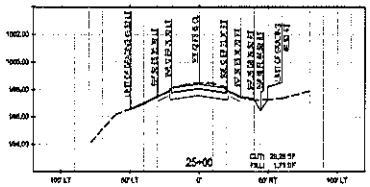
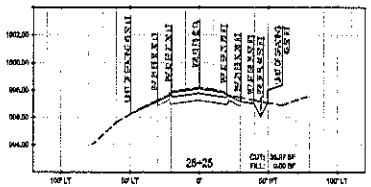
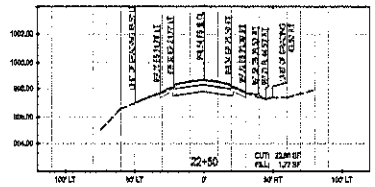
JOB NUMBER | DWG C-710 | SHEET 26 OF 38

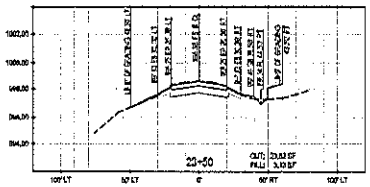


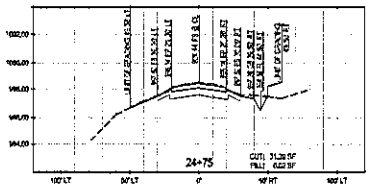


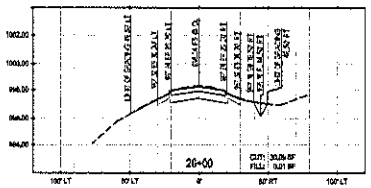


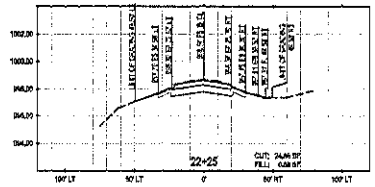


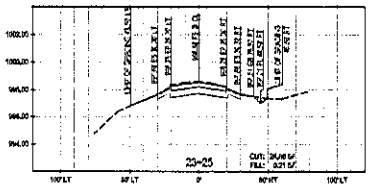


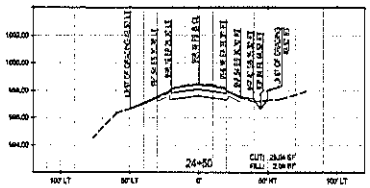


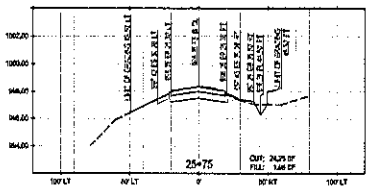


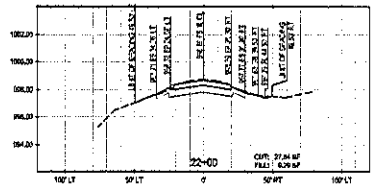


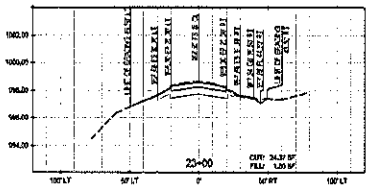


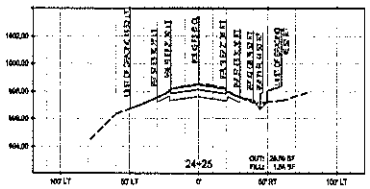


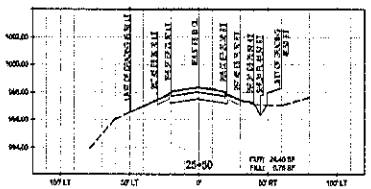


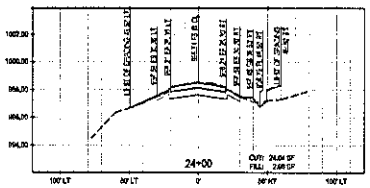


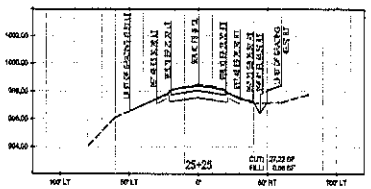












RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
21+75	28.02	1.06		
22+00	27.84	0.78	71.85	0.63
22+25	26.86	0.64	26.40	0.45
22+50	22.86	1.77	22.69	1.13
22+75	22.35	1.24	20.68	1.88
23+00	24.37	1.50	23.58	1.73
23+25	26.69	0.21	23.64	0.70
23+50	23.83	3.10	23.20	1.55
23+75	36.17	2.48	27.68	2.58
24+00	24.04	2.68	27.88	3.31
24+25	28.50	1.56	23.44	2.10
24+50	29.04	2.98	25.90	1.97
24+75	31.28	0.22	26.13	1.25
25+00	29.28	1.73	26.00	0.80
25+25	27.22	0.06	26.16	1.10
25+50	24.40	0.78	23.90	0.67
25+75	24.25	1.46	22.52	1.28
26+00	30.09	0.01	25.16	0.82
26+25	36.07	-	31.05	0.00
SUBTOTAL THIS SHEET ONLY			447.83	23.32
CUMULATIVE SUBTOTAL			7,784.45	82.16

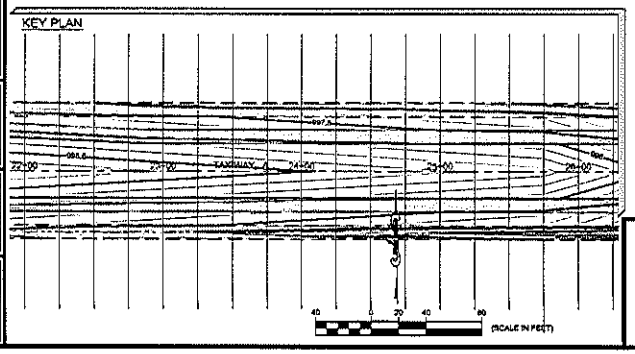
NOTES:

1. GRADE BETWEEN LABELED POINTS IS ASSUMED STRAIGHT UNLESS NOTED OTHERWISE OR UNLESS OBJECTS DICTATE OTHERWISE AND ARE NOT LABELED FOR CLARITY.
2. CROSS-SECTIONAL AREAS OF CUT AND FILL INDICATED ARE CALCULATED BETWEEN THE BOTTOM OF EXISTING AC PAVEMENT AND NEW PAVEMENT SUBGRADE OR FINISHED GRADE.
3. EXISTING PAVEMENT AND GROUND SURFACE IS OBTAINED FROM FIELD SURVEYS PERFORMED IN 2019. EXISTING PAVEMENT THICKNESS IS ASSUMED TO BE 6.5 INCHES U.N.O.

(VERTICAL SCALE IN FEET)

(HORIZONTAL SCALE IN FEET)

KEY PLAN



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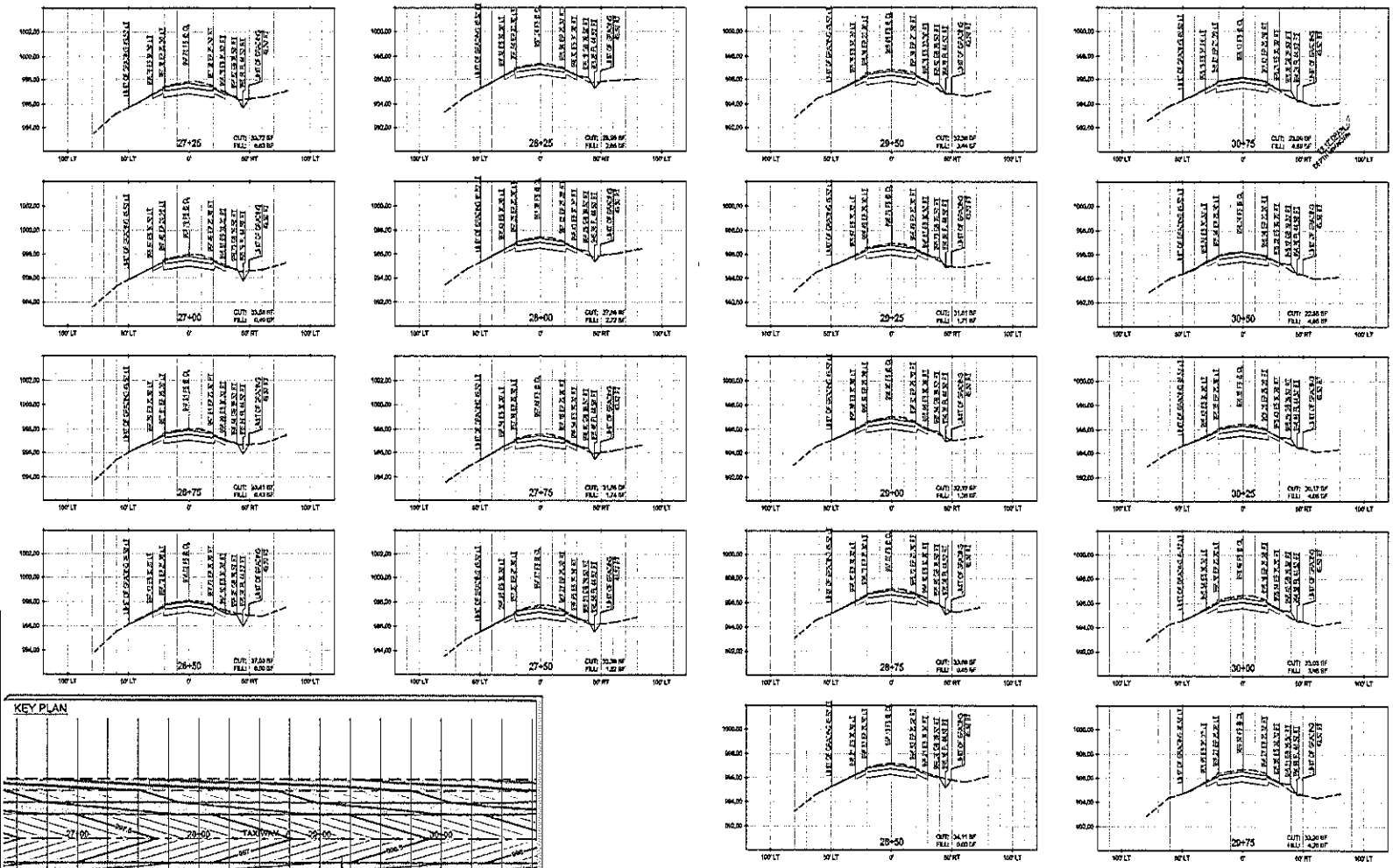
REGISTERED PROFESSIONAL ENGINEER PETER D. BORETTI No. 64709 Exp. 12/31/21 STATE OF CALIFORNIA CIVIL

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CROSS SECTIONS
22+00 - 26+25

JOB NUMBER | DWG. C-704 | SHEET 17 OF 18

DRAFT P.S. | DESIGN P.S. | CHECK P.S. | DATE 02/12/2021 | C:\PROJECTS\CALEXICO\



RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
26+25	36.97	-		
26+50	37.03	0.39	34.26	0.13
26+75	33.41	0.43	32.61	0.33
27+00	33.58	0.49	32.81	0.43
27+25	33.72	0.63	31.18	0.57
27+50	33.39	1.32	31.97	1.00
27+75	31.56	1.74	30.97	1.53
28+00	27.88	2.72	27.51	2.06
28+25	26.88	2.66	26.31	2.49
28+50	34.11	-	29.21	1.23
28+75	33.60	0.45	31.38	0.21
29+00	37.13	1.35	30.45	0.83
29+25	31.61	1.71	29.50	1.42
29+50	32.36	3.44	29.62	2.38
29+75	33.20	4.35	30.25	3.56
30+00	33.03	3.95	30.66	3.80
30+25	30.17	4.06	29.26	3.71
30+50	22.38	4.85	24.42	4.03
30+75	23.09	4.69	21.14	4.33
SUBTOTAL THIS SHEET ONLY			930.00	33.87
CUMULATIVE SUBTOTAL			2,796.48	96.13

NOTES:

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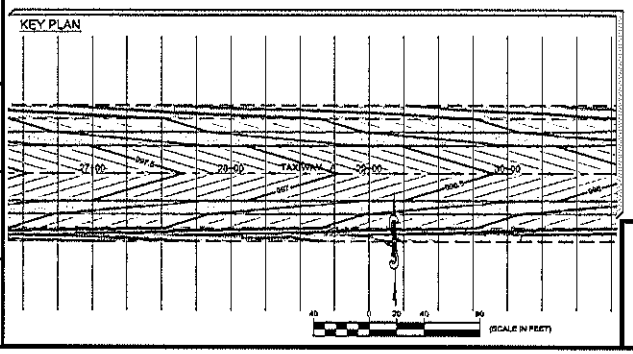

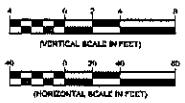

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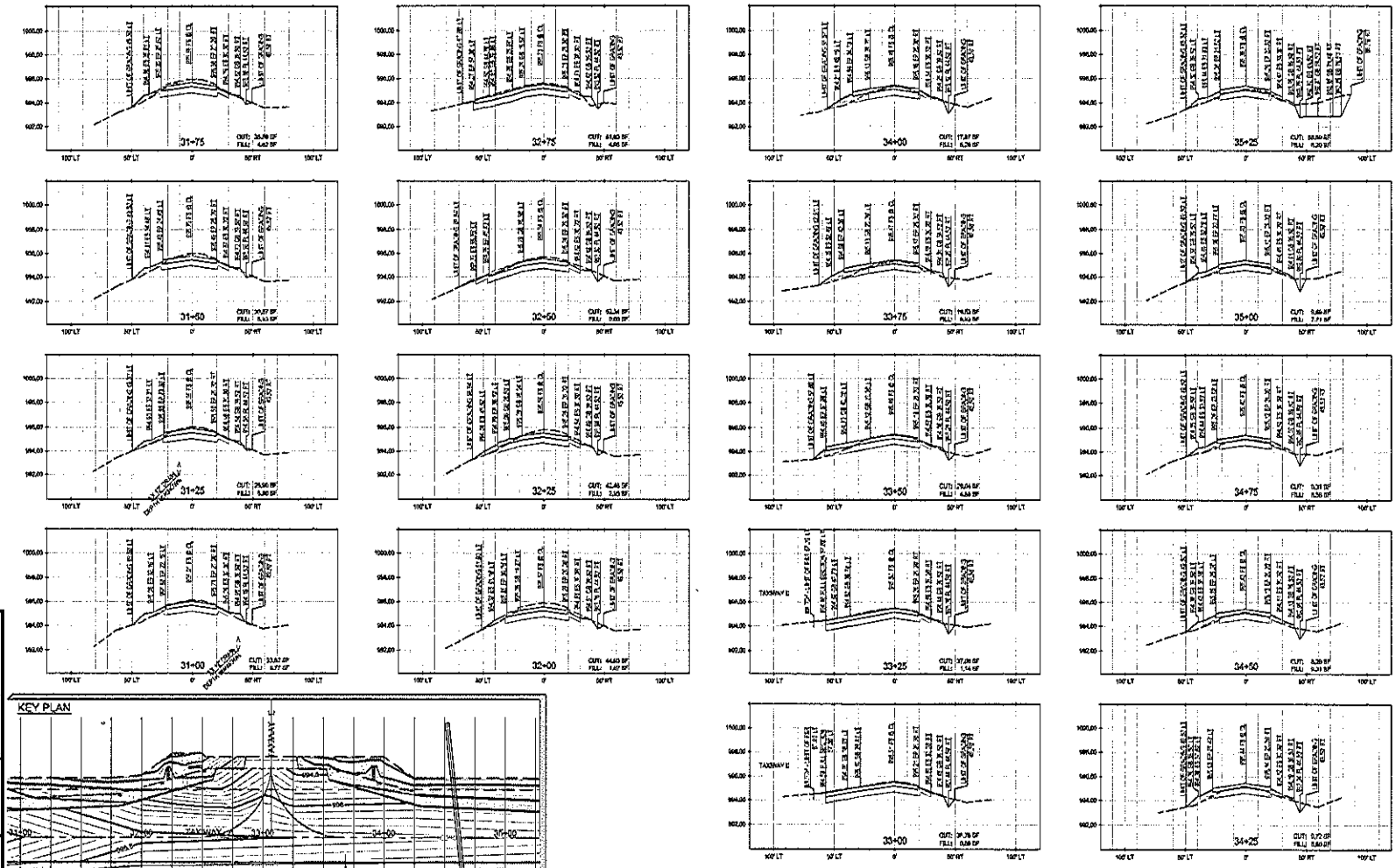
CROSS SECTIONS
26+50 - 30+75

JOB NUM | DWG CAPA | SHEET 27 OF 38



RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
30+75	23.09	4.60		
31+00	23.92	9.77	21.63	6.69
31+25	25.96	5.80	22.95	7.21
31+50	30.57	5.03	26.17	5.43
31+75	36.84	4.62	31.22	4.88
32+00	44.03	1.67	37.87	2.91
32+25	42.45	2.95	40.49	2.14
32+50	32.34	-	43.88	1.37
32+75	31.83	4.96	48.13	2.30
33+00	38.76	0.06	41.95	3.41
33+25	37.04	1.14	35.10	0.84
33+50	29.64	4.66	30.88	2.79
33+75	19.33	5.93	22.76	5.47
34+00	17.87	6.26	17.31	6.12
34+25	9.72	8.00	12.73	6.86
34+50	8.29	8.31	8.14	8.28
34+75	9.31	8.59	8.15	8.28
35+00	8.69	7.71	8.80	7.54
35+25	18.39	8.20	21.61	7.37
SUBTOTAL THIS SHEET ONLY			489.88	89.11
CUMULATIVE SUBTOTAL			1,286.53	185.23

NOTES:

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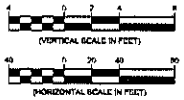
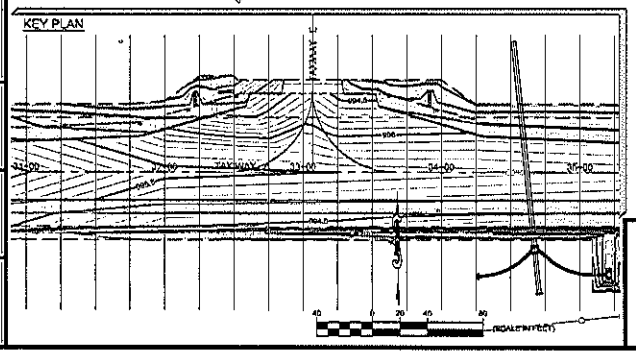


KEY PLAN



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DATE	BY	DESCRIPTION

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(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER
REYES D. MONTES
No. C47878
Exp. 12/31/21
CIVIL
STATE OF CALIFORNIA

PROPERTY OF THE CITY OF CALEXICO

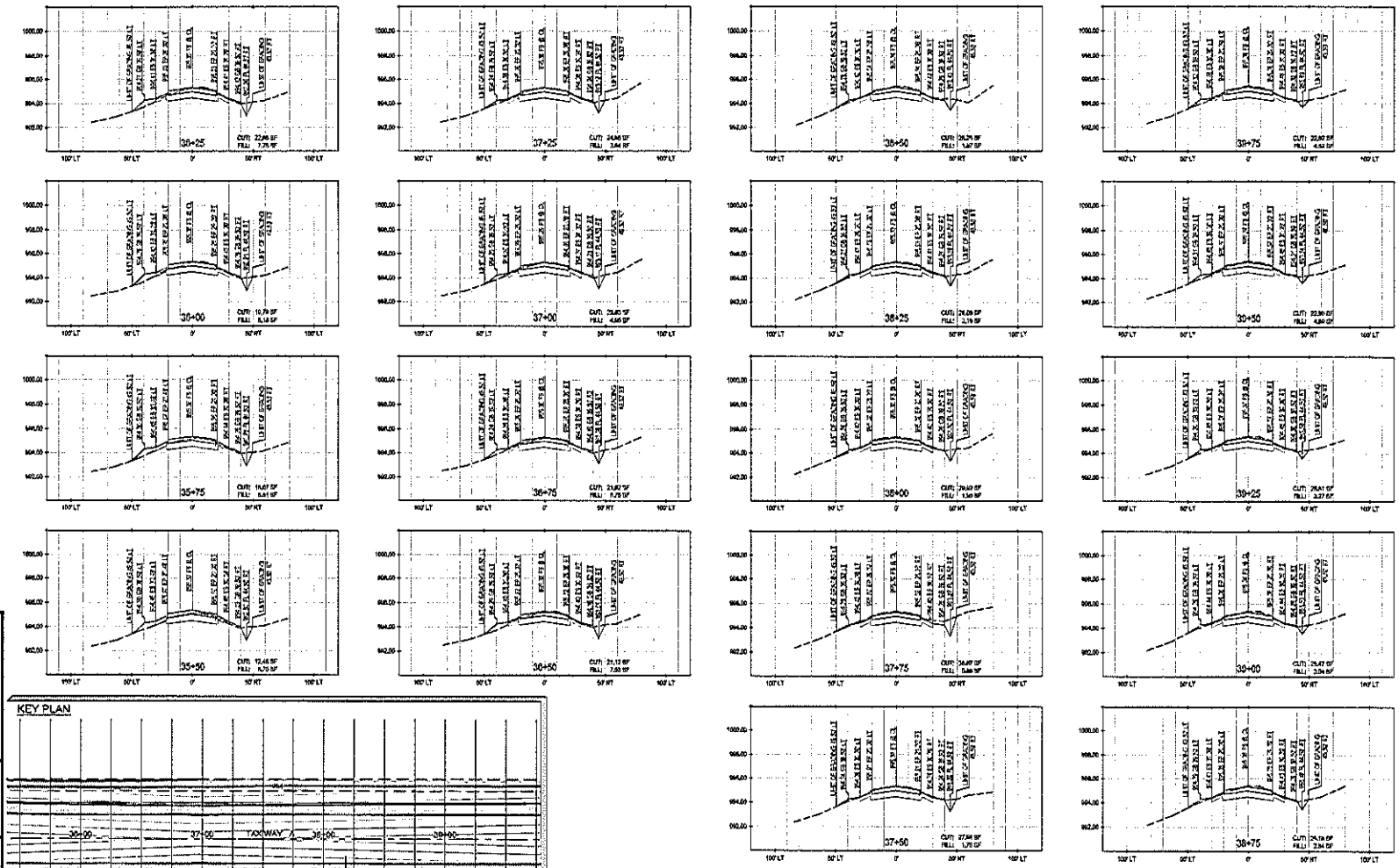
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CROSS SECTIONS
31+00 - 35+25

JOB NO.

DWG. C-704

SHEET 24 OF 38



RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
35+25	68.59	8.20		
35+50	12.48	8.70	22.90	7.82
35+75	10.07	8.51	13.22	7.07
36+00	19.78	8.18	16.60	7.73
36+25	22.85	7.75	19.74	7.38
36+50	21.12	7.53	20.34	7.07
36+75	21.82	5.75	19.88	6.15
37+00	23.83	4.95	21.15	4.95
37+25	24.95	3.64	22.58	3.08
37+50	27.58	1.76	24.32	2.80
37+75	30.87	0.88	29.84	1.22
38+00	29.92	1.90	30.92	1.29
38+25	28.09	2.19	26.85	1.89
38+50	26.25	1.87	26.08	1.88
38+75	25.18	2.84	24.74	2.18
39+00	25.47	3.04	23.45	2.72
39+25	25.81	3.27	23.74	2.92
39+50	22.99	4.89	22.59	3.78
39+75	22.02	4.52	21.25	4.06
SUBTOTAL THIS SHEET ONLY			420.30	77.79
CUMULATIVE SUBTOTAL			3,706.53	265.02

NOTES:

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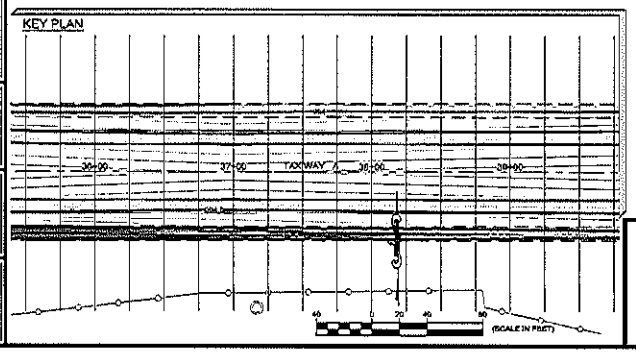
(VERTICAL SCALE IN FEET)

(HORIZONTAL SCALE IN FEET)

KEY PLAN



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DATE	BY	DESCRIPTION

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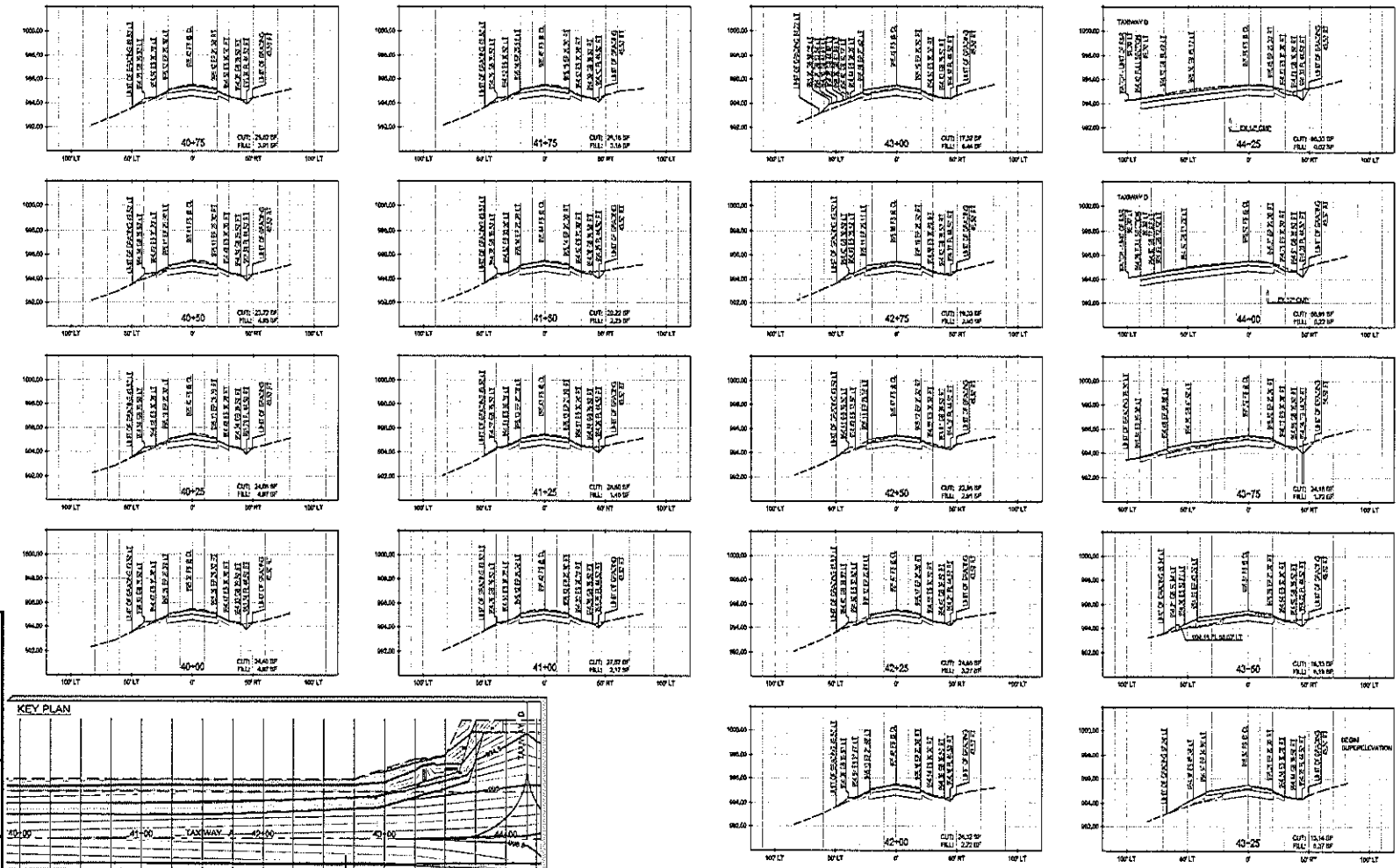
(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER
PETER D. SCHEIDT
No. C-0579
Exp. 12/31/21
STATE OF CALIFORNIA

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CROSS SECTIONS
35+50 - 39+75

JOB NUMBER | DWG. 14707 | SHEET 21 OF 38



RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
39+75	22.82	4.53		
40+00	24.40	4.87	21.91	4.25
40+25	24.08	4.67	22.44	4.51
40+50	23.72	4.85	22.13	4.60
40+75	23.62	3.91	22.84	4.06
41+00	27.87	2.17	24.76	3.81
41+25	28.60	1.40	26.34	1.55
41+50	29.22	1.23	26.77	1.68
41+75	25.18	3.15	25.18	2.45
42+00	26.32	2.72	23.83	2.72
42+25	24.65	3.27	23.90	2.77
42+50	22.58	3.91	21.87	2.86
42+75	19.33	2.90	19.40	2.69
43+00	17.32	4.44	16.97	3.25
43+25	15.14	6.37	14.10	4.48
43+50	16.33	5.29	13.54	5.25
43+75	14.15	1.72	13.17	3.20
44+00	16.01	0.23	12.16	0.90
44+25	66.35	0.03	17.06	0.11
SUBTOTAL THIS SHEET ONLY			448.17	56.76
CUMULATIVE SUBTOTAL			4,154.20	371.29

NOTES:

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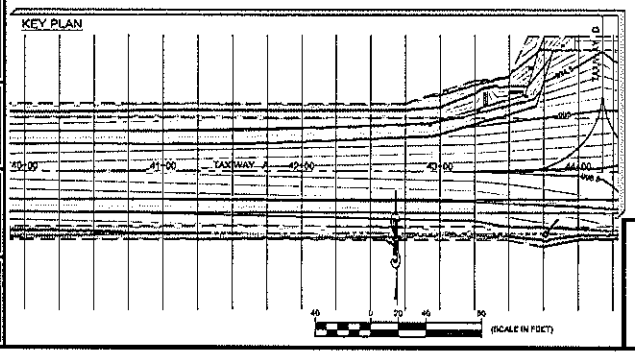
(VERTICAL SCALE IN FEET)

(HORIZONTAL SCALE IN FEET)

KEY PLAN



TWO DAYS BEFORE YOU DIG

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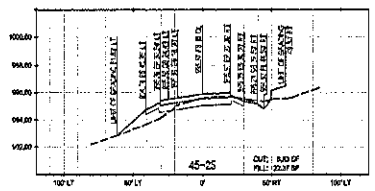
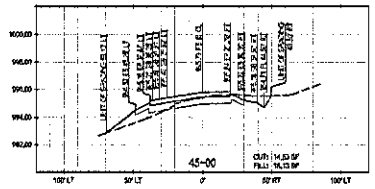
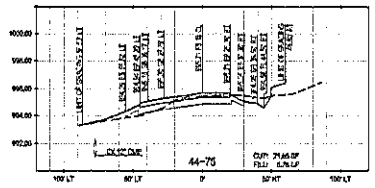
CROSS SECTIONS
40+00 - 44+25

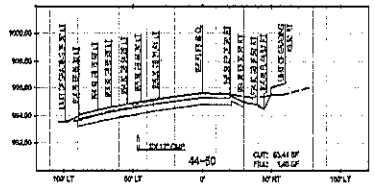
JOB NO. 2019-01 | DRAWN BY: CHUNG | SHEET 1 OF 1 SHEETS

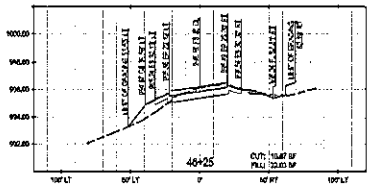
DATE: 8/5 | SCALE: 1"=3' | CHECKED: PCB | DRAWN: PCB | PROJECT NAME: CXI-TW2 SECTIONS.DWG

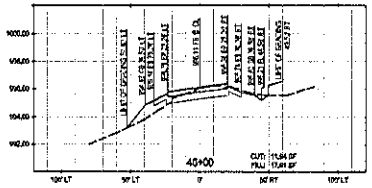


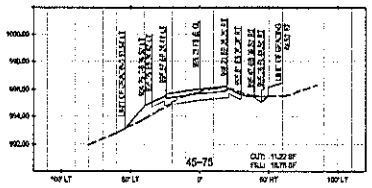


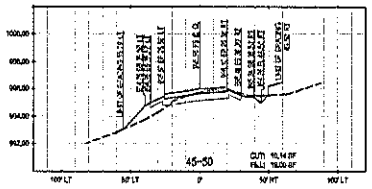


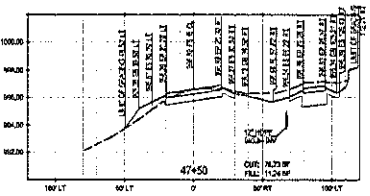


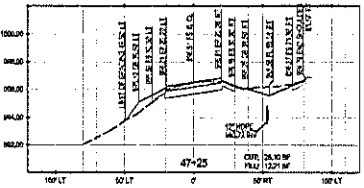


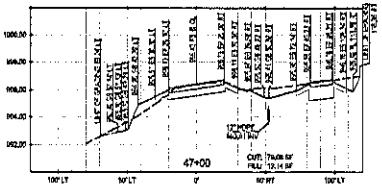


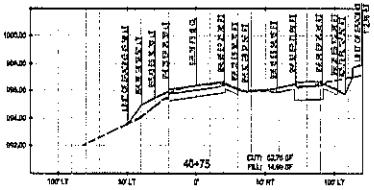


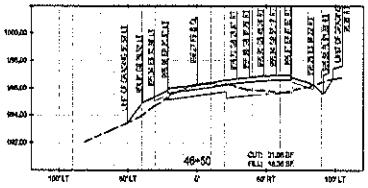


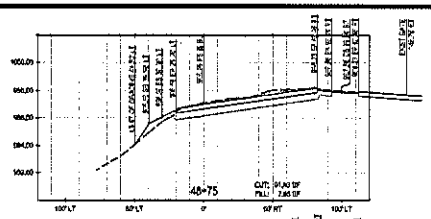


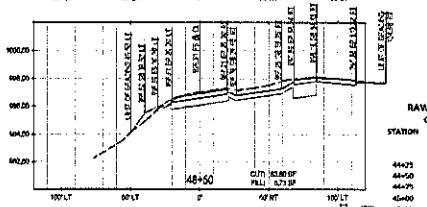


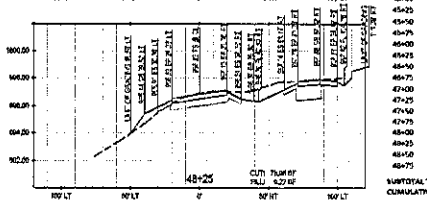


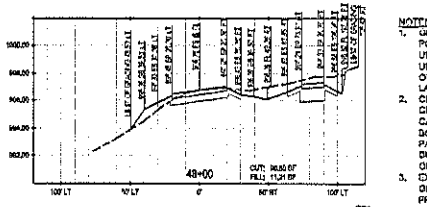


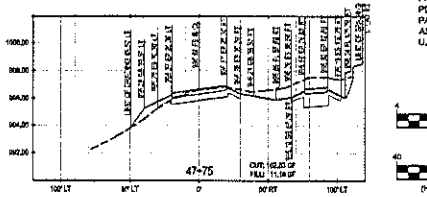


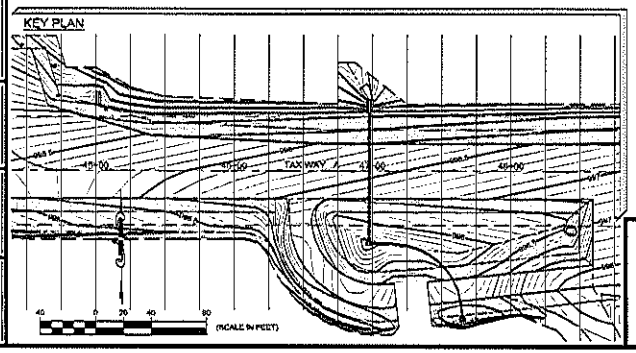












RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
44+25	68.33	0.02		
44+50	63.41	1.45	60.06	0.69
44+75	71.64	0.75	99.38	4.75
45+00	14.53	16.13	36.75	12.44
45+25	8.03	22.37	10.81	18.75
45+50	10.14	18.00	6.78	19.15
45+75	11.22	18.75	9.99	17.49
46+00	11.94	17.91	10.72	16.99
46+25	15.87	22.03	10.56	18.49
46+50	21.06	16.36	19.43	18.70
46+75	22.76	14.66	38.81	15.44
47+00	19.06	12.14	51.04	12.56
47+25	26.10	12.21	48.66	11.27
47+50	16.23	11.24	47.61	10.88
47+75	102.03	11.19	83.13	10.58
48+00	96.50	11.21	89.57	10.37
48+25	79.04	9.27	78.52	9.46
48+50	92.80	8.73	75.34	7.35
48+75	91.90	7.66	81.40	6.60
SUBTOTAL THIS SHEET ONLY			790.25	221.80
CUMULATIVE SUBTOTAL			4,945.28	543.58

NOTES:

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2. CROSS-SECTIONAL AREAS OF CUT AND FILL INDICATED ARE CALCULATED BETWEEN THE BOTTOM OF EXISTING AC PAVEMENT AND NEW PAVEMENT SUBGRADE OR FINISHED GRADE.
3. EXISTING PAVEMENT AND GROUND SURFACE IS OBTAINED FROM FIELD SURVEYS PERFORMED IN 2019. EXISTING PAVEMENT THICKNESS IS ASSUMED TO BE 5.0 INCHES U.N.O.

(VERTICAL SCALE IN FEET)

(HORIZONTAL SCALE IN FEET)

TWO DAYS BEFORE YOU DIG

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REVISIONS

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CITY OF CALEXICO

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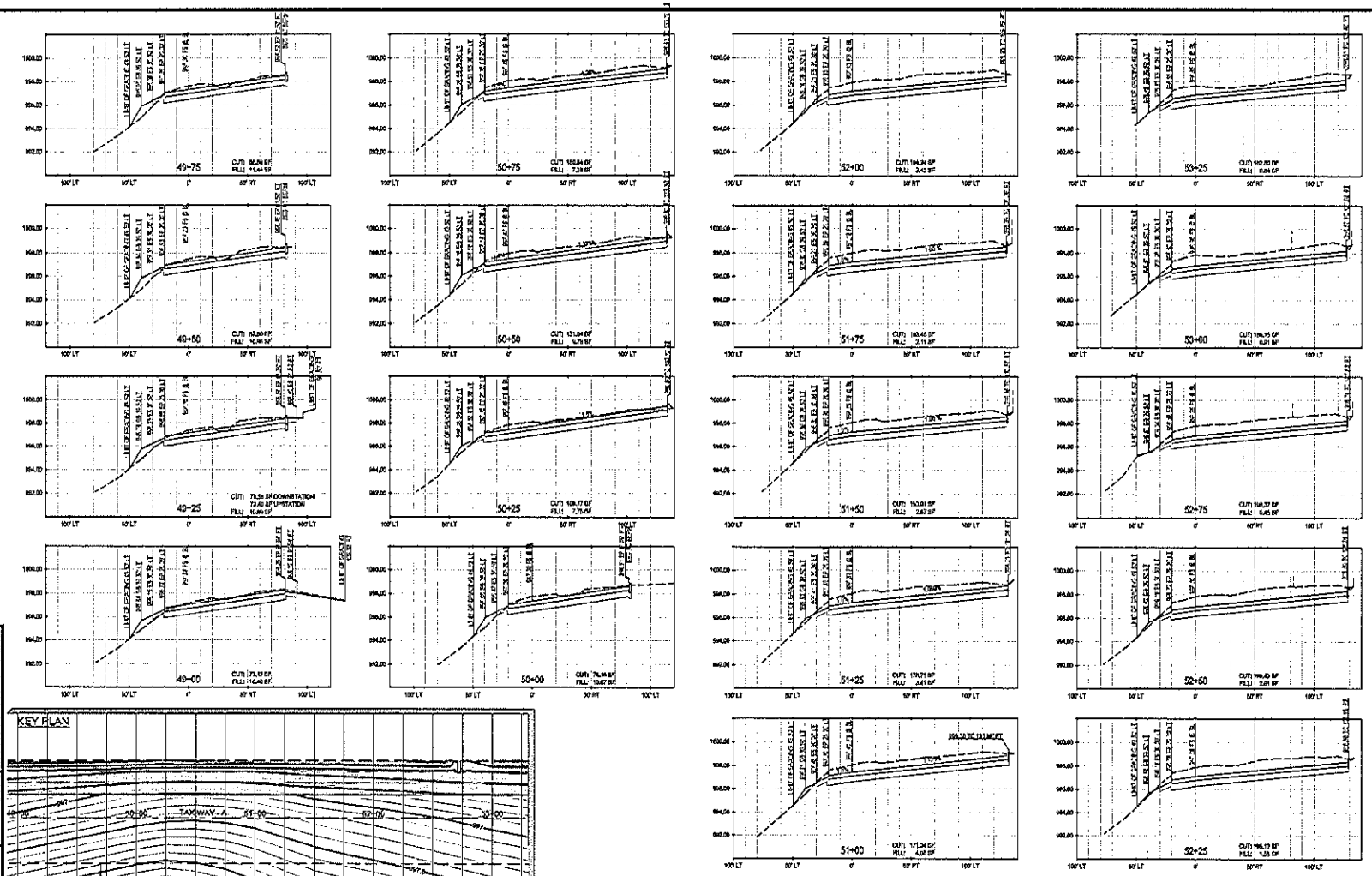
TAXIWAY A REHABILITATION
CROSS SECTIONS
44+50 - 48+75

JOB NUM | DWG C-TW | SHEET 11 OF 36



RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
48+75	91.93	7.65		
49+00	73.12	10.40	76.41	8.36
49+25	74.52	10.89	68.35	9.86
49+50	67.65	10.95	65.80	10.11
49+75	65.58	11.44	61.65	10.37
50+00	76.18	10.07	65.61	9.96
50+25	108.17	7.75	85.34	8.25
50+50	131.04	9.78	110.75	8.12
50+75	150.84	7.38	130.50	7.94
51+00	171.24	4.68	149.11	5.58
51+25	178.71	3.41	162.01	3.75
51+50	193.01	2.57	172.09	2.77
51+75	193.48	2.11	178.93	2.17
52+00	194.24	2.43	179.50	2.10
52+25	198.10	1.85	181.64	1.84
52+50	199.43	2.01	184.04	1.93
52+75	198.37	0.45	184.17	1.42
53+00	186.15	0.91	178.02	0.63
53+25	162.50	0.04	161.41	0.73
SUBTOTAL THIS SHEET ONLY			2,195.33	95.86
CUMULATIVE SUBTOTAL			7,340.58	639.44

NOTES:

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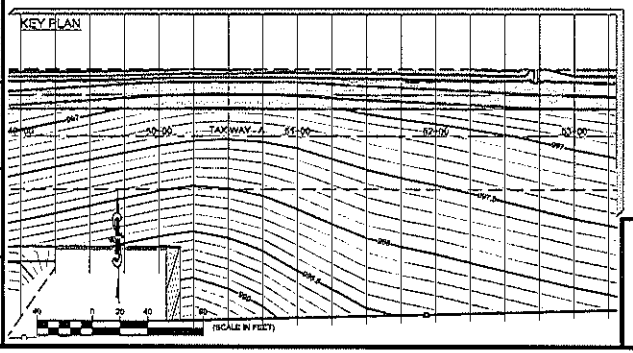

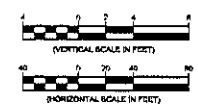

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DATE	BY	DESCRIPTION

REVISIONS

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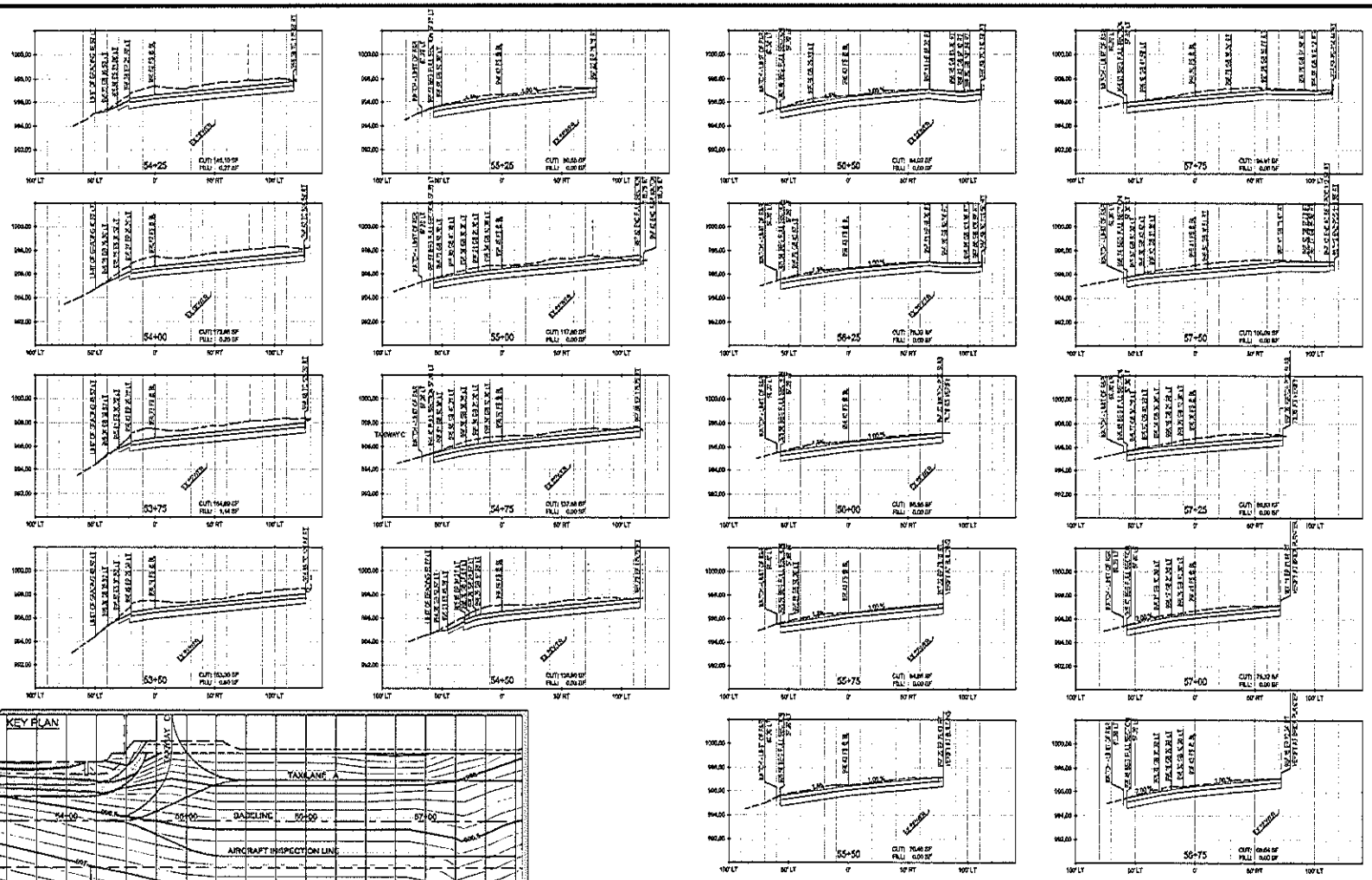
Tustin, CA 92780
(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER
PETER D. BONIELLO
No. C47978
Exp. 12/31/21
STATE OF CALIFORNIA

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CROSS SECTIONS
49+00 - 53+25

JOB NO. | DWG. | SHEET 12 OF 16



RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	CROSS SECTIONAL AREAS (SF) FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	VOLUME FROM PREVIOUS STATION (CY) FILL
53+25	162.50	0.64		
53+50	153.60	0.60	146.30	0.17
53+75	104.69	1.14	147.22	0.63
54+00	173.98	0.20	156.33	0.62
54+25	146.10	0.27	147.72	0.27
54+50	135.00	0.01	130.56	0.14
54+75	137.68	-	125.66	0.01
55+00	117.80	-	118.29	-
55+25	80.55	-	91.83	-
55+50	75.46	-	69.93	-
55+75	54.85	-	63.84	-
56+00	66.55	-	60.83	-
56+25	76.32	-	67.07	-
56+50	84.82	-	75.16	-
56+75	66.64	-	69.75	-
57+00	75.32	-	65.72	-
57+25	89.53	-	75.32	-
57+50	106.09	-	90.56	-
57+75	94.91	-	91.66	-
SUBTOTAL THIS SHEET ONLY	1,799.82		2,37	
CUMULATIVE SUBTOTAL	9,134.40		641.61	

NOTES:

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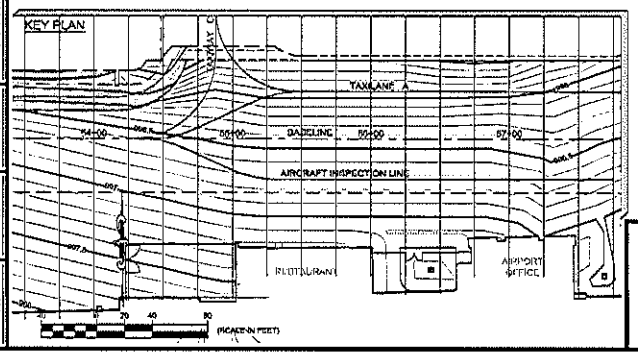

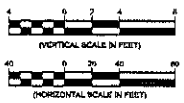

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DATE	BY	DESCRIPTION

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Tustin, CA 92780
(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER
PETER D. BENETT
No. 047579
Exp. 12/31/21
CIVIL
STATE OF CALIFORNIA

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CROSS SECTIONS
53+50 - 57+75

JOB NUMBER | DRAWN | DATE | SHEET 13 OF 18

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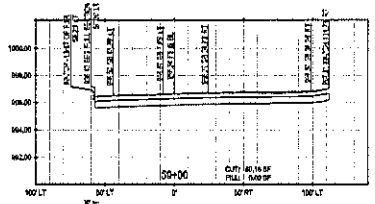

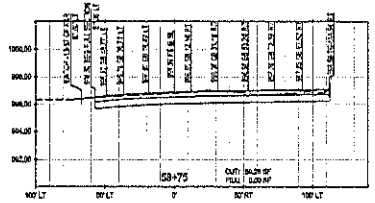

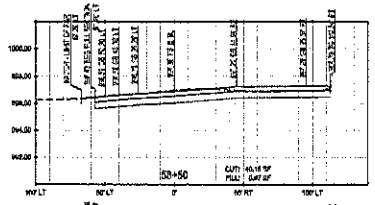

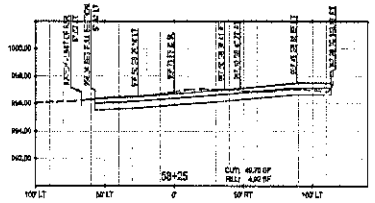

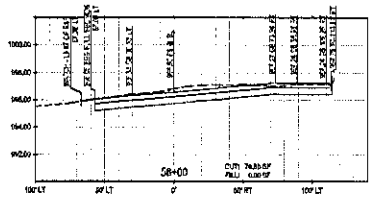

(VERTICAL SCALE IN FEET)

(HORIZONTAL SCALE IN FEET)

RAW EARTHWORK QUANTITIES

STATION	CROSS SECTIONAL AREAS (SF) CUT	FILL	VOLUME FROM PREVIOUS STATION (CY) CUT	FILL
57+75	94.91	-		
58+00	74.33	-	79.38	-
58+25	49.76	4.92	56.48	2.28
58+50	40.16	0.67	41.63	2.59
58+75	59.26	-	46.03	0.31
59+00	89.14	-	66.72	-
SUBTOTAL THIS SHEET ONLY			294.24	5.18
GRAND TOTAL			4,410.43	646.66

NOTES:
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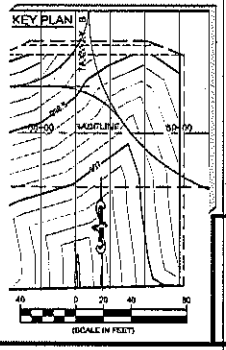
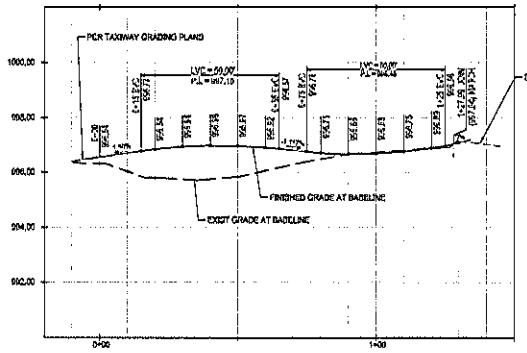
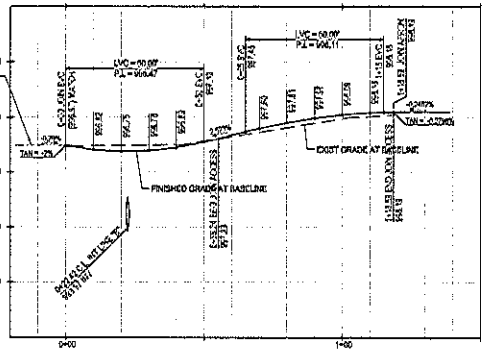


(SCALE IN FEET)



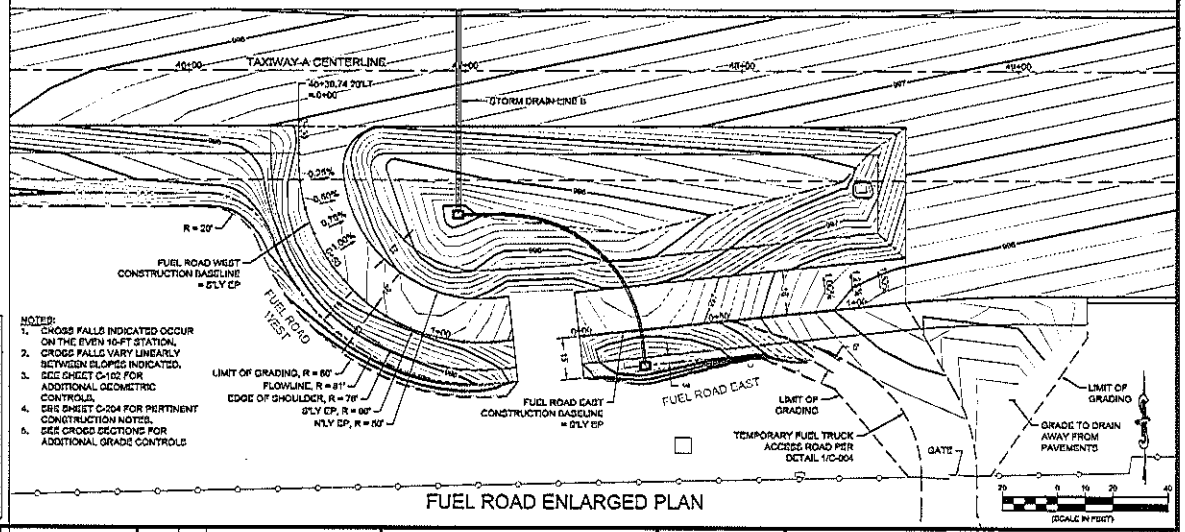
FUEL ROAD WEST PROFILE



FUEL ROAD EAST PROFILE

(VERTICAL SCALE IN FEET)

(HORIZONTAL SCALE IN FEET)



FUEL ROAD ENLARGED PLAN

(SCALE IN FEET)

NOTES:
1. CROSS FALLS INDICATED OCCUR ON THE EVEN 10-FT STATION.
2. CROSS FALLS VARY LINEARLY BETWEEN SLOPES INDICATED.
3. SEE SHEET C-102 FOR ADDITIONAL GEOMETRIC CONTROLS.
4. SEE SHEET C-204 FOR PERTINENT CONSTRUCTION NOTES.
5. SEE CROSS SECTIONS FOR ADDITIONAL GRADE CONTROLS

TWO DAYS BEFORE YOU DIG

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DATE	BY	DESCRIPTION

REVISIONS

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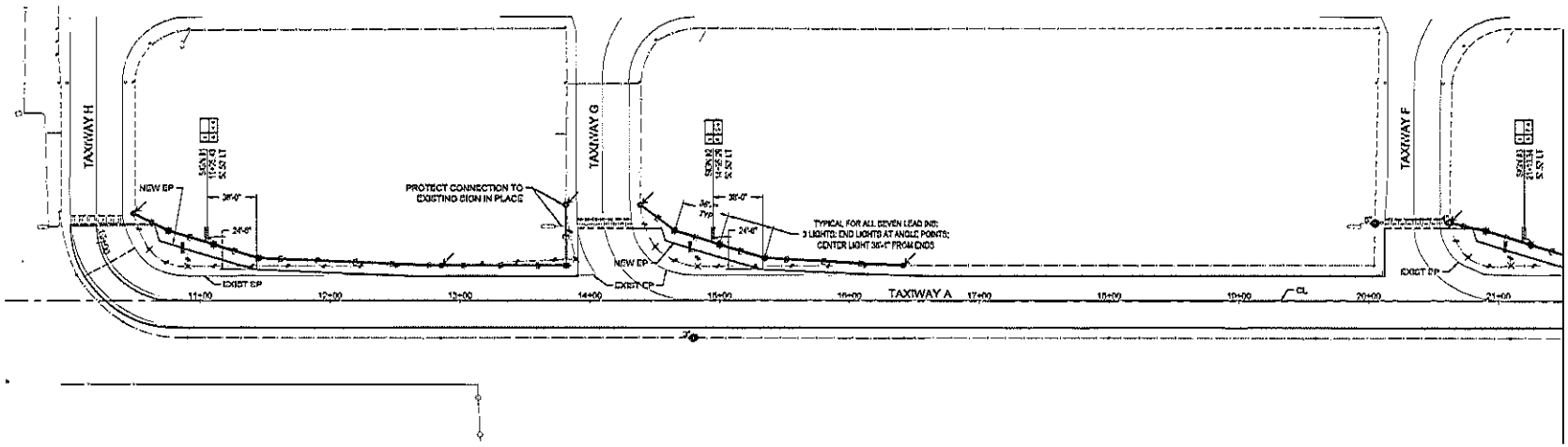
REGISTERED PROFESSIONAL ENGINEER PETER D. BONITZ No. C45878 Exp. 12/31/21 CIVIL STATE OF CALIFORNIA

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
CROSS SECTIONS 58+00 - 59+00
FUEL ROAD PLAN & PROFILE

JOB NO. | DATE | SHEET

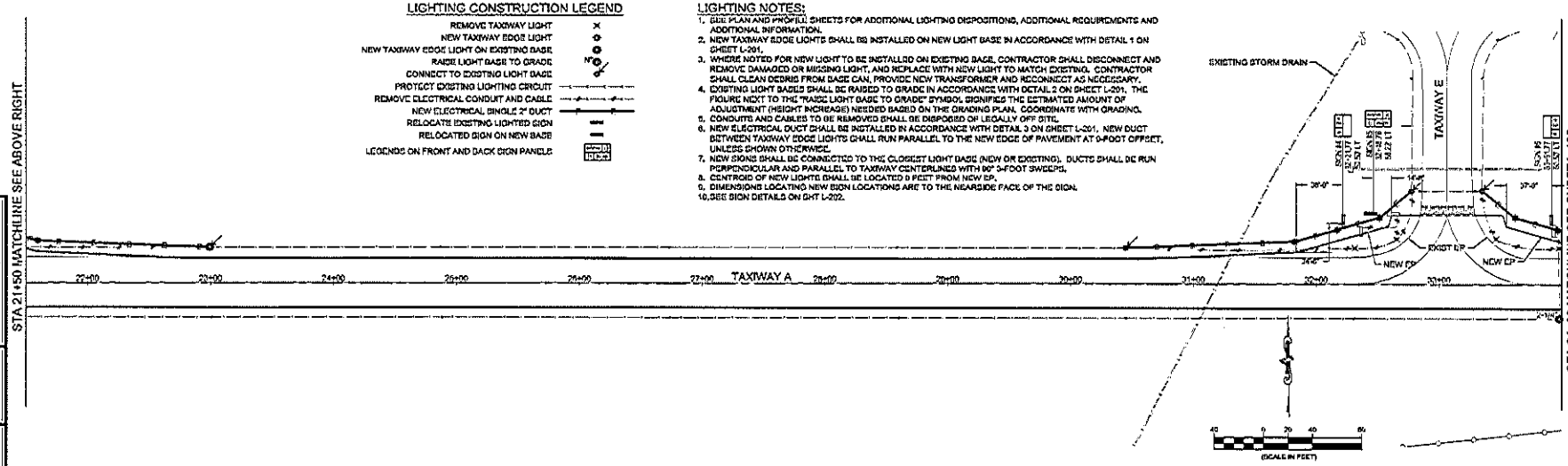


LIGHTING CONSTRUCTION LEGEND

- REMOVE TAXIWAY LIGHT
- NEW TAXIWAY EDGE LIGHT
- NEW TAXIWAY EDGE LIGHT ON EXISTING BASE
- RAISE LIGHT BASE TO GRADE
- CONNECT TO EXISTING LIGHT BASE
- PROTECT EXISTING LIGHTING CIRCUIT
- REMOVE ELECTRICAL CONDUIT AND CABLE
- NEW ELECTRICAL SINGLE 2" DUCT
- RELOCATE EXISTING LIGHTED SIGN
- RELOCATED SIGN ON NEW BASE
- LEGENDS ON FRONT AND BACK SIGN PANELS

LIGHTING NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL LIGHTING DISPOSITIONS, ADDITIONAL REQUIREMENTS AND ADDITIONAL INFORMATION.
2. NEW TAXIWAY EDGE LIGHTS SHALL BE INSTALLED ON NEW LIGHT BASE IN ACCORDANCE WITH DETAIL 1 ON SHEET L-201.
3. WHERE NOTED FOR NEW LIGHT TO BE INSTALLED ON EXISTING BASE, CONTRACTOR SHALL DISCONNECT AND REMOVE DAMAGED OR MISSING LIGHT, AND REPLACE WITH NEW LIGHT TO MATCH EXISTING. CONTRACTOR SHALL CLEAN DEBRIS FROM BASE CAN, PROVIDE NEW TRANSFORMER AND RECONNECT AS NECESSARY.
4. EXISTING LIGHT BASES SHALL BE RAISED TO GRADE IN ACCORDANCE WITH DETAIL 2 ON SHEET L-201. THE FIGURE NEXT TO THE "RAISE LIGHT BASE TO GRADE" SYMBOL SIGNIFIES THE ESTIMATED AMOUNT OF ADJUSTMENT (HEIGHT INCREASE) NEEDED BASED ON THE GRADING PLAN. COORDINATE WITH GRADING.
5. CONDUITS AND CABLES TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF SITE.
6. NEW ELECTRICAL DUCT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL 3 ON SHEET L-201. NEW DUCT BETWEEN TAXIWAY EDGE LIGHTS SHALL RUN PARALLEL TO THE NEW EDGE OF PAVEMENT AT 9-FOOT OFFSET, UNLESS SHOWN OTHERWISE.
7. NEW SIGNS SHALL BE CONNECTED TO THE CLOSEST LIGHT BASE (NEW OR EXISTING). DUCTS SHALL BE RUN PERPENDICULAR AND PARALLEL TO TAXIWAY CENTERLINES WITH 90° 3-FOOT SWEEPS.
8. CENTROID OF NEW LIGHTS SHALL BE LOCATED 9 FEET FROM NEW EP.
9. DIMENSIONS LOCATING NEW SIGN LOCATIONS ARE TO THE NEARSIDE FACE OF THE SIGN.
10. SEE SIGN DETAILS ON SHT L-202.



KEY PLAN

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CITY OF CALEXICO

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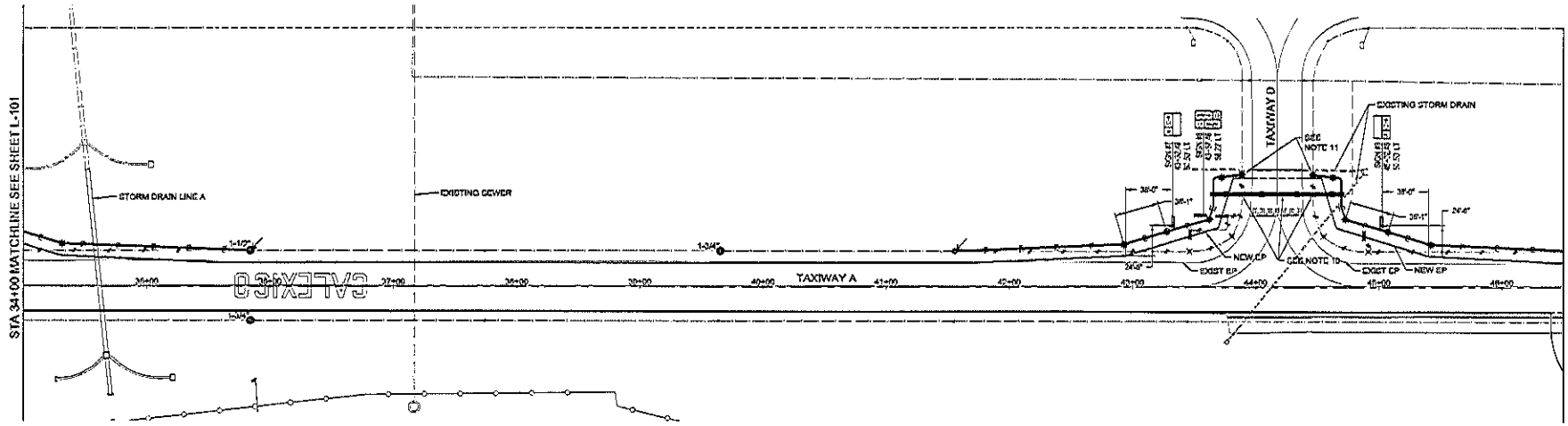
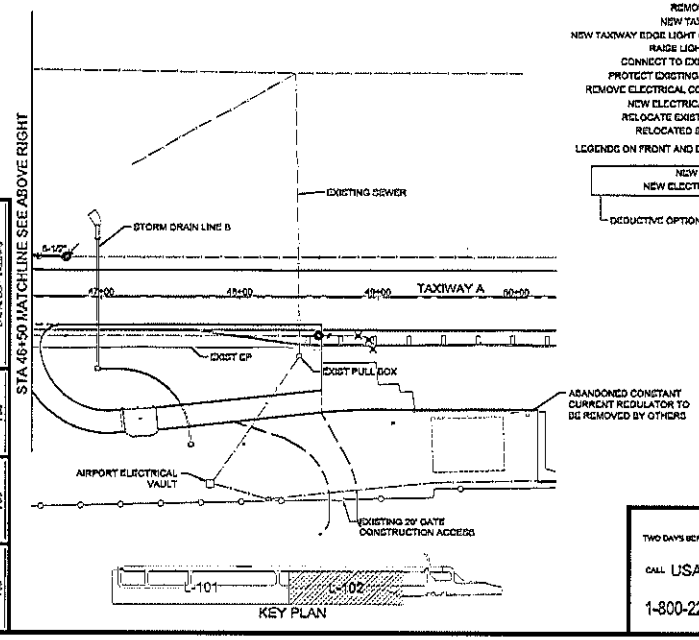
LIGHTING PLAN 10+00 TO 34+00



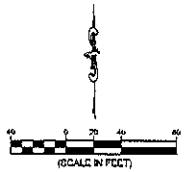


LIGHTING CONSTRUCTION LEGEND

- REMOVE TAXIWAY LIGHT
- NEW TAXIWAY EDGE LIGHT
- NEW TAXIWAY EDGE LIGHT ON EXISTING BASE
- RAISE LIGHT BASE TO GRADE
- CONNECT TO EXISTING LIGHT BASE
- PROTECT EXISTING LIGHTING CIRCUIT
- REMOVE ELECTRICAL CONDUIT AND CABLE
- NEW ELECTRICAL SINGLE 2" DUCT
- RELOCATE EXISTING LIGHTED SIGN
- RELOCATED SIGN ON NEW BASE
- LEGENDS ON FRONT AND BACK SIGN PANELS
- NEW 17" x 30" PULL BOX
- NEW ELECTRICAL 2-WAY DUCT
- DEDUCTIVE OPTION SEE NOTE 10

LIGHTING NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL LIGHTING DISPOSITIONS, ADDITIONAL REQUIREMENTS AND ADDITIONAL INFORMATION.
2. NEW TAXIWAY EDGE LIGHTS SHALL BE INSTALLED ON NEW LIGHT BASE IN ACCORDANCE WITH DETAIL 1 ON SHEET L-201.
3. WHERE NOTED FOR NEW LIGHT TO BE INSTALLED ON EXISTING BASE, CONTRACTOR SHALL DISCONNECT AND REMOVE DAMAGED OR MISSING LIGHT, AND REPLACE WITH NEW LIGHT TO MATCH EXISTING. CONTRACTOR SHALL CLEAN DEBRIS FROM BASE CAN, PROVIDE NEW TRANSFORMER AND RECONNECT AS NECESSARY.
4. EXISTING LIGHT BASES SHALL BE RAISED TO GRADE IN ACCORDANCE WITH DETAIL 2 ON SHEET L-201. THE FIGURE NEXT TO THE "RAISE LIGHT BASE TO GRADE" SYMBOL SIGNIFIES THE ESTIMATED AMOUNT OF ADJUSTMENT (HEIGHT INCREASE) NEEDED BASED ON THE GRADING PLAN. COORDINATE WITH GRADING.
5. CONDUITS AND CABLES TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF SITE.
6. NEW ELECTRICAL DUCT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL 3 ON SHEET L-201. NEW DUCT BETWEEN TAXIWAY EDGE LIGHTS SHALL RUN PARALLEL TO THE NEW EDGE OF PAVEMENT AT 9-FOOT OFFSET, UNLESS SHOWN OTHERWISE.
7. NEW SIGNS SHALL BE CONNECTED TO THE CLOSEST LIGHT BASE (NEW OR EXISTING). DUCTS SHALL BE RUN PERPENDICULAR AND PARALLEL TO TAXIWAY CENTERLINES WITH 90° 3-FOOT SWEEPS.
8. CENTERS OF NEW LIGHTS SHALL BE LOCATED 9 FEET FROM EP.
9. DIMENSIONS LOCATING NEW SIGN LOCATIONS ARE TO THE NEARSIDE FACE OF THE SIGN.
10. RECORDS INDICATE THE PRESENCE OF (2) 2" ELEC CONDUITS CROSSING UNDER TAXIWAY D AT THE LOCATION SHOWN. CONTRACTOR SHALL VERIFY WETHER THESE EXIST AND WETHER A LIVE CIRCUIT EXISTS WITHIN BEFORE PROCEEDING WITH THE WORK OF INSTALLING NEW PULL BOXES AND NEW DUCT BETWEEN THEM TO REPLACE THIS CIRCUIT. IF IT IS DETERMINED THAT THIS CIRCUIT/CONDUITS DOESNOT EXIST OR THAT IT/THEY ARE ABANDONED WITH NO CONNECTION TO THE EXISTING LIGHTS THE NEW PULL BOXES AND NEW DUCT CROSSING WILL BE DELETED AND THE NEW DUCT ROUTED DIRECTLY BETWEEN NEW LIGHTS INSTEAD. REMOVE AND DISPOSE OF ABANDONED ITEMS ENCOUNTERED.
11. CONTRACTOR SHALL INSTALL NEW LIGHT AS CLOSE AS POSSIBLE TO THE EXISTING STORM DRAIN THAT CROSSES UNDER TAXIWAY D WITHOUT IMPACTING IT, AND INTERCEPT AND CONNECT NEW LIGHT TO EXISTING LIGHTING CIRCUIT.
12. SEE SIGN DETAILS ON SHT L-202.



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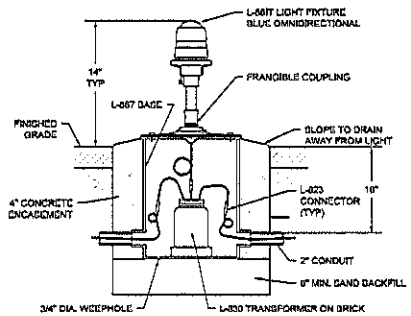
CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION
LIGHTING PLAN 34+00 TO 50+00

JOB PIER | DWG L-102 | SHEET 36 OF 38

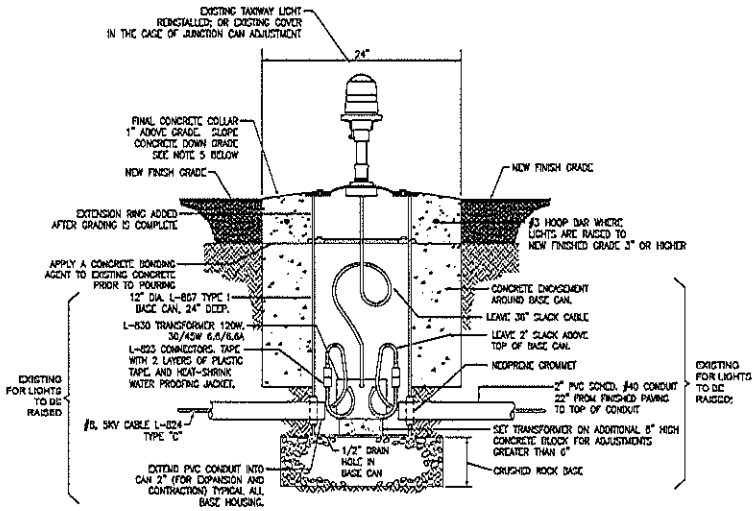


NOTES:
1. LIGHTS ARE MEDIUM INTENSITY AND SHALL BE IN CONFORMANCE WITH FAA ADVISORY CIRCULARS 150/5340-30 "DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS" AND 150/5345-46 "SPECIFICATION FOR RUNWAY AND TAXIWAY LIGHT FIXTURES", CURRENT EDITIONS.
2. LIGHTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 FEET OF SLACK FOR EACH CABLE IN BASE.

TAXIWAY EDGE LIGHT

NOT TO SCALE

1 / L-101-2



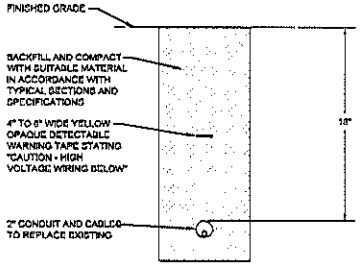
NOTE:

1. FOR TAXIWAY LIGHTS THAT NEED TO BE RAISED DISCONNECT AND REMOVE THE EXISTING ELEVATED TAXIWAY LIGHT AND INSTALL A 3/4" THICK PLYWOOD OVER THE LIGHT BASE CAN TO PROTECT THE BASE CAN AND CONDUCTORS THEREIN. THE CONTRACTOR SHALL SURVEY THE EXACT LOCATION OF THE LIGHT SO THAT IT CAN BE FOUND WHEN COVERED WITH MATERIAL. AFTER GRADING IS COMPLETE EXCAVATE DOWN AT THE LOCATION OF EXISTING RUNWAY/TAXIWAY LIGHT BASE CAN, REMOVE THE PLYWOOD COVER AND INSTALL A NEW EXTENSION RING FOR THE BASE CAN AND POUR A REINFORCED CONCRETE COLLAR TO 1" ABOVE FINISH GRADE. RE-GRADE AND COMPACT AROUND THE NEW CONCRETE BASE TO MATCH EXISTING.
2. PLANS SHOW APPROXIMATE DIFFERENCES BETWEEN NEW GRADE AND EXISTING GRADE. THE CONTRACTOR SHALL HAVE ENOUGH BASE CAN ADJUSTMENT RINGS OF INCREMENTAL SIZES ON HAND TO MAKE THE FINAL DETERMINATION OF THE NEEDED HEIGHT ADJUSTMENT AFTER COORDINATING WITH THE GRADING CONTRACTOR.
3. BELOW UNPAVED AREAS NEW CONDUIT SHALL BE INSTALLED PER DETAILS CONCRETE ENCASEMENT IS NOT REQUIRED
4. CONCRETE SHALL BE P-610 FOR ALL COLLARS 3 INCHES OR GREATER IN DEPTH. FOR SHALLOWER ADJUSTMENTS USE A THIN SET CONCRETE PATCHING MATERIAL. PROVIDE SUBMITTAL DEMONSTRATING SUITABILITY FOR THIS APPLICATION TO THE ENGINEER FOR APPROVAL

TAXIWAY EDGE LIGHT RAISE TO GRADE

NOT TO SCALE

2 / L-101-2

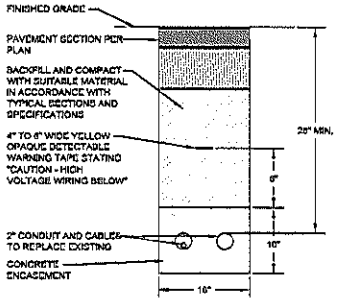


NOTES:
ALL DUCTS BETWEEN LIGHTS AND SIGNS SHALL BE 1-WAY DUCTS UNLESS EXISTING CONDITIONS ARE SUCH THAT THE RPR DIRECTS THAT 2-WAY DUCT BE INSTALLED IN WHICH CASE DUCTS SHALL BE PLACED AT THE SAME 18-INCH DEPTH 3 INCHES APART.

1-WAY 2" ELECTRICAL DUCT BETWEEN LIGHTS/SIGNS

NOT TO SCALE

3 / L-101-2



NOTES:
1) MINIMUM CONCRETE ENCASEMENT SHALL BE 3 INCHES ALL AROUND, FOR DUCT BANKS CONSISTING OF MULTIPLE CONDUITS, PROVIDE 2" MIN. SEPARATION BETWEEN CONDUITS.
2) CONDUIT SHALL BE CROWNED TO A NORMAL 0.25% SLOPE LONGITUDINALLY TO PROMOTE DRAINAGE TO PULLBOXES.
3) FOR DUCT BANKS CONSISTING OF MULTIPLE CONDUITS, COUNTERPOISE SHALL BE INSTALLED AT LEAST 18 INCHES ABOVE AND CENTERED OVER THE DUCT BANK.
4) NOT TRENCHING THROUGH THE FINAL PAVEMENT SECTION WILL BE PERMITTED. THE DUCT BANK SHALL BE INSTALLED AFTER THE EXISTING PAVEMENT IS REMOVED BUT BEFORE THE PAVEMENT IS RECONSTRUCTED.
5) THIS DETAIL APPLIES TO THE DEDUCTIVE ALTERNATE SHOWN ON SHT L-102. SEE NOTE 10.

TWO-WAY DUCT BANK UNDER TAXIWAY

NOT TO SCALE

4 / L-102

DRAWN RJG	CHECKED FDB	DESIGN FDB	DC PLEASE USE L-201 L-101-L-102 DETAILS 1-3

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(714) 573-0214

REGISTERED PROFESSIONAL ENGINEER FRANK D. BORTOLOTTI No. 047078 Exp. 12/31/09 ELECTRICAL

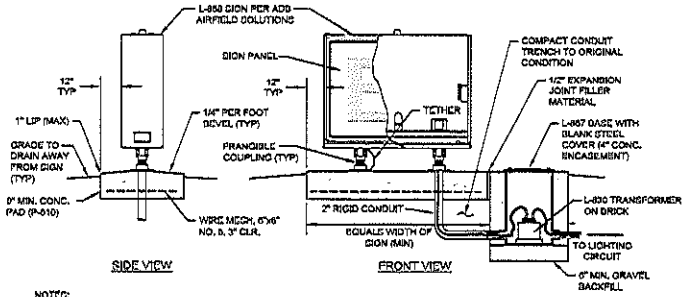
PROJECT MANAGER DATE

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

LIGHTING DETAILS

JOB PGM | DWG L-101 | SHEET 37 OF 38

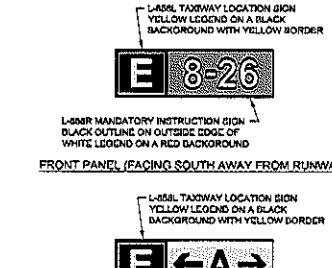


NOTES:

1. EXISTING SIGNS ARE INTERNALLY ILLUMINATED, SIZE 1, STYLE 2, CLASS 1, MODE 2 SIGNS MANUFACTURED BY ADB AIRFIELD SOLUTIONS AND INSTALLED IN 2011 IN CONFORMANCE WITH FAA ADVISORY CIRCULARS 150/5340-18 "STANDARDS FOR AIRPORT SIGN SYSTEMS" AND 150/5340-44 "SPECIFICATION FOR TAXIWAY AND RUNWAY SIGNS".
2. COMBINED DIRECTION/LOCATION SIGNS HAVE 3 LEGS; COMBINED MANDATORY/LOCATION SIGNS HAVE 4 LEGS PER ADB.
3. L-867 BASE IS GROUNDED.
4. INSTALL RELOCATED SIGNS PER MANUFACTURER'S RECOMMENDATIONS.
5. AT HOLDLINES, FRONT FACE OF RELOCATED SIGNS SHALL BE IN LINE WITH RUNWAY HOLDING POSITION MARKING.
6. ALL EXPOSED EDGES AND CORNERS OF NEW CONCRETE PADS SHALL BE ROUNDED WITH A 1/2" RADIUS.

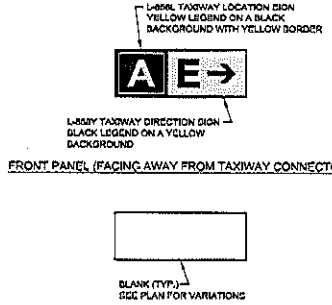
L-858 AIRFIELD GUIDANCE SIGN (1)

NOT TO SCALE



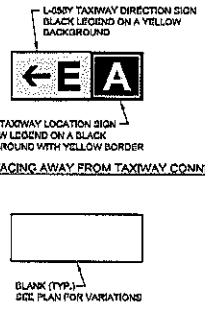
TYPICAL SIGN PANELS -
RUNWAY HOLDING POSITION SIGN (2)

NOT TO SCALE



TYPICAL SIGN PANELS -
TAXIWAY DIRECTION SIGN (EXAMPLE NO. 1) (3)

NOT TO SCALE



TYPICAL SIGN PANELS -
TAXIWAY DIRECTION SIGN (EXAMPLE NO. 2) (4)

NOT TO SCALE

NOTES

1. SIGNS TO BE RELOCATED SHALL REQUIRE NEW FOUNDATION, NEW L867 BASE, NEW CONDUIT BETWEEN BASE AND SIGN, NEW CABLES WITHIN NEW CONDUIT, NEW CONNECTORS AND NEW REPLACEMENT SIGN PANELS.
2. REPLACEMENT PANELS WILL BE REQUIRED FOR PANELS CONTAINING A LEGEND ONLY. BLANK PANELS ARE NOT REQUIRED TO BE REPLACED.
3. ALL SIGN PANEL LEGENDS SHOWN ON THIS SHEET ARE FOR TAXIWAY CONNECTOR "E" AND ARE INTENDED TO ILLUSTRATE THE GENERAL LAYOUT OF TYPICAL SIGN PANEL LEGENDS. SIGN PANEL LEGENDS AT OTHER TAXIWAYS MAY DIFFER FROM THOSE SHOWN ON THIS SHEET. SEE AIRFIELD GUIDANCE SIGN PLAN FOR THE APPROPRIATE SIGN PANEL LEGENDS AT OTHER TAXIWAYS.

DATE	BY	DESCRIPTION
JUL 3		DEVELOPMENT
06-06-24	FCB	
07-22-24	FCB	
08-07-24	FCB	DEVELOPMENT REVISE L-858 SIGN DETAILS

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REGISTERED PROFESSIONAL ENGINEER
PETER D. BORETTO
No. C47878
Exp. 12/31/24
CIVIL
STATE OF CALIFORNIA

CITY OF CALEXICO

CALEXICO INTERNATIONAL AIRPORT
TAXIWAY A REHABILITATION

AIRFIELD SIGNAGE DETAILS

JOB NUM. | DWG. L-A7V | SHEET 7A OF 35