

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	242	R0.0/R1.6	36	151

Eric Kawakita
REGISTERED CIVIL ENGINEER

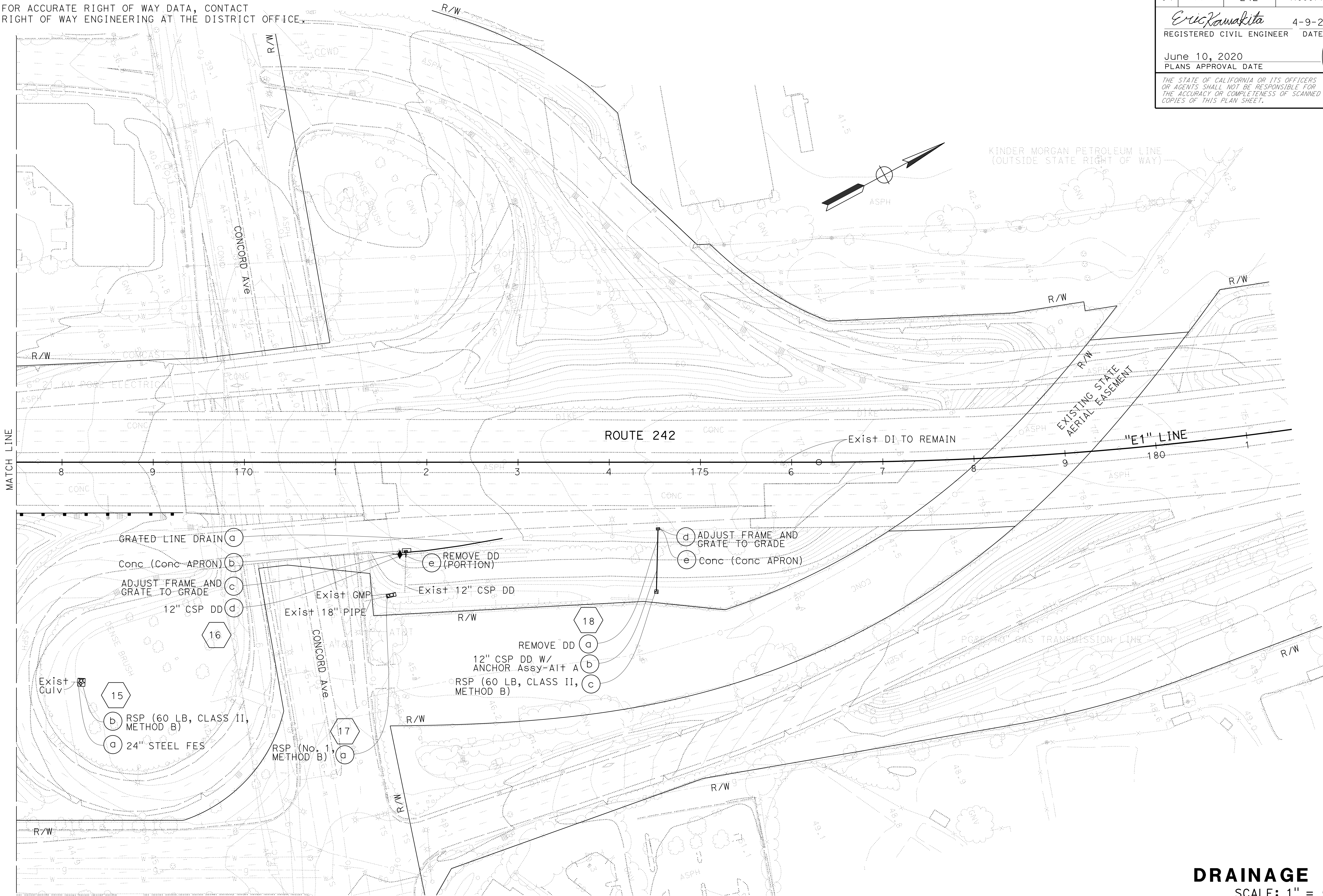
4-9-20
DATE

June 10, 2020
PLANS APPROVAL DATE

Eric S. Kawakita
No. 78480
Exp. 9-30-21
CIVIL

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

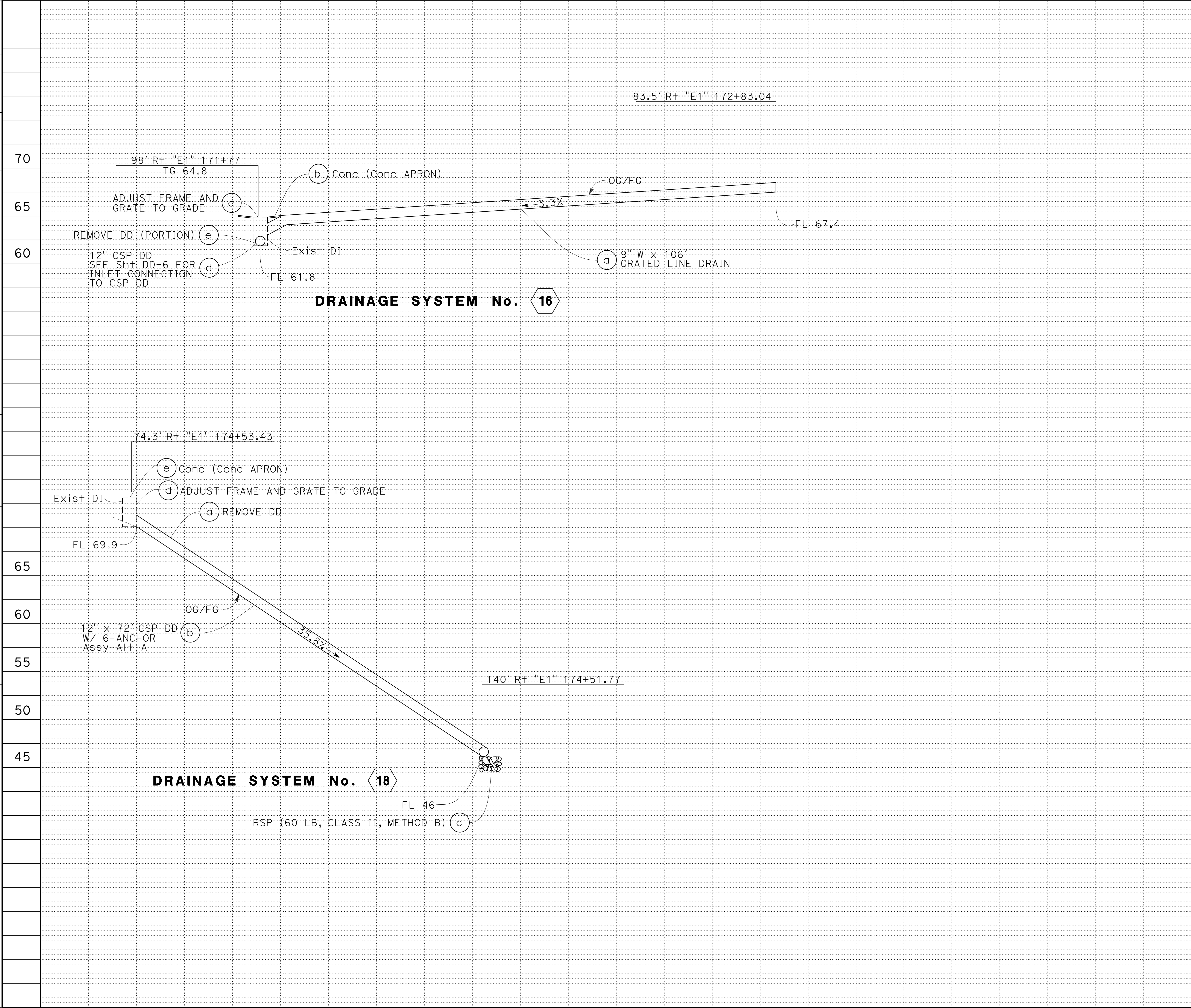
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APPROVED FOR DRAINAGE WORK ONLY

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET D-1

DRAINAGE PLAN
SCALE: 1" = 50'



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	242	R0.0/R1.6	38	151

4-14-20

REGISTERED CIVIL ENGINEER

DATE

June 10, 2020

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

Manuel M. Canillao Jr.

No. 58845

Exp. 6-30-21

CIVIL

STATE OF CALIFORNIA

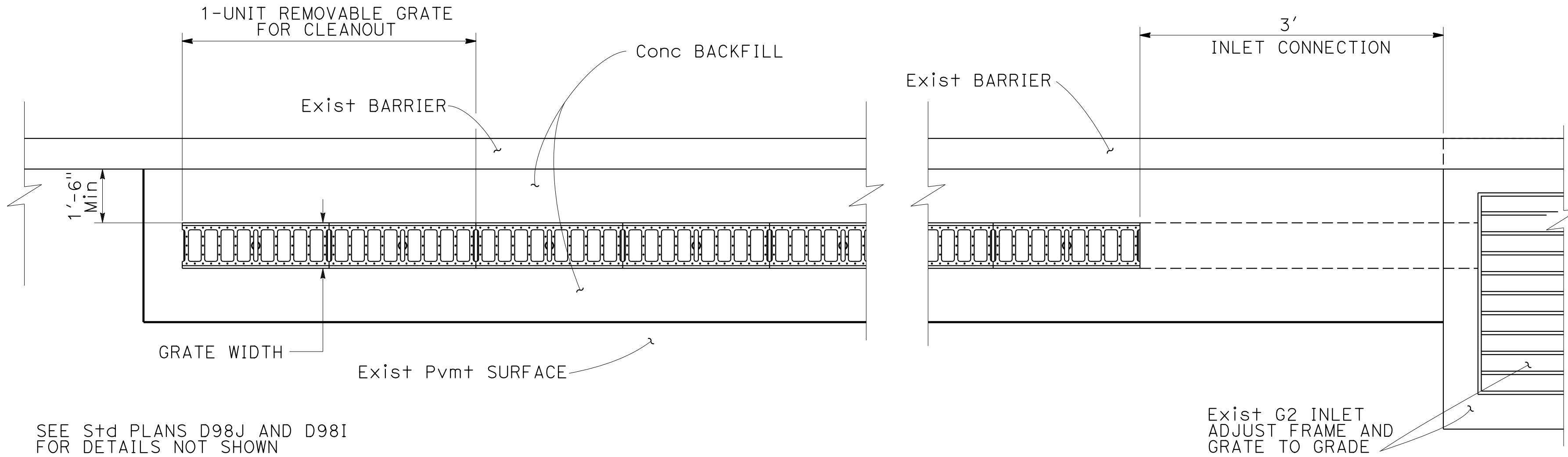
DRAINAGE PROFILES

SCALE: Horiz 1" = 10'

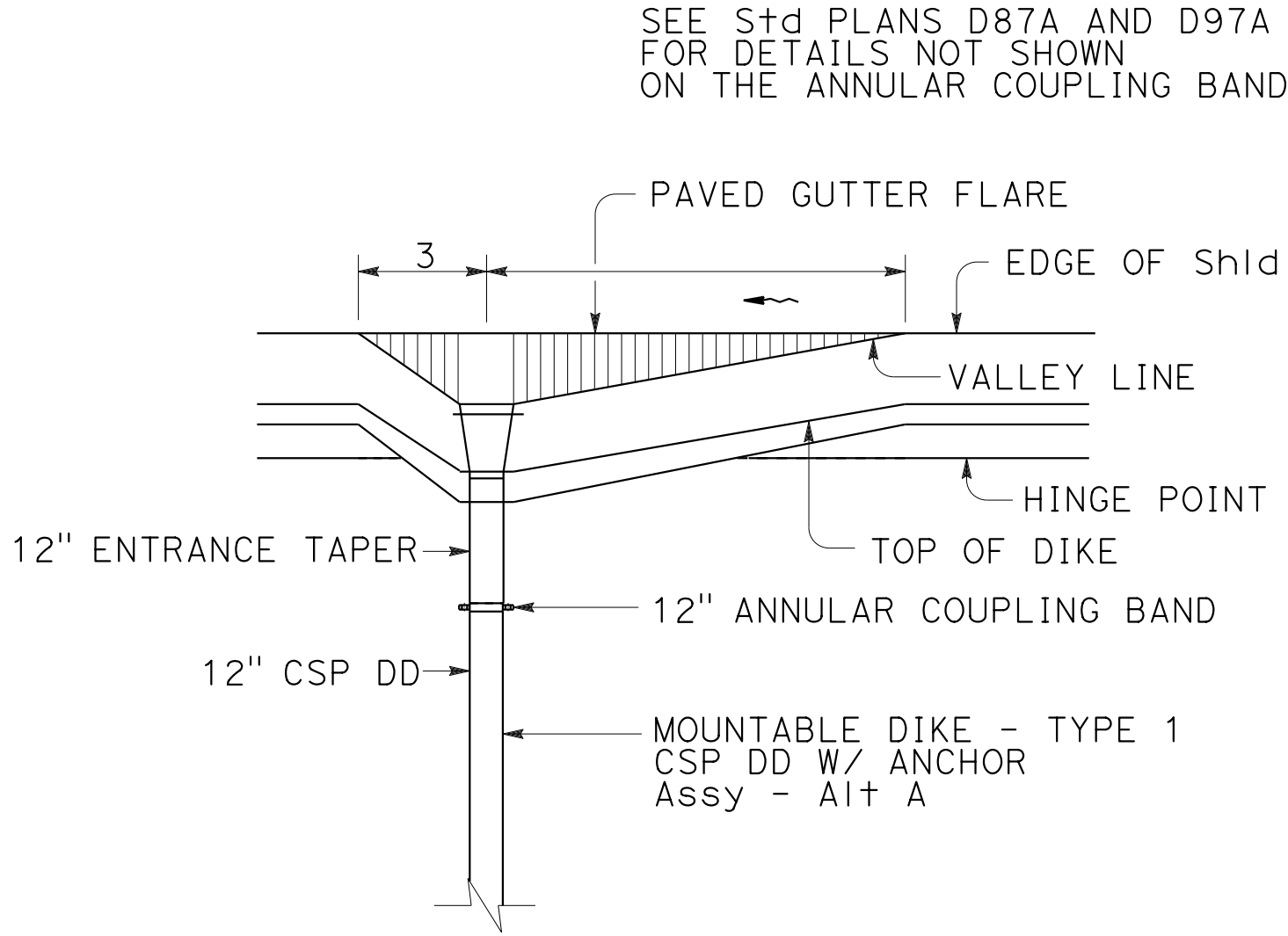
Vert 1" = 5'

DP-2

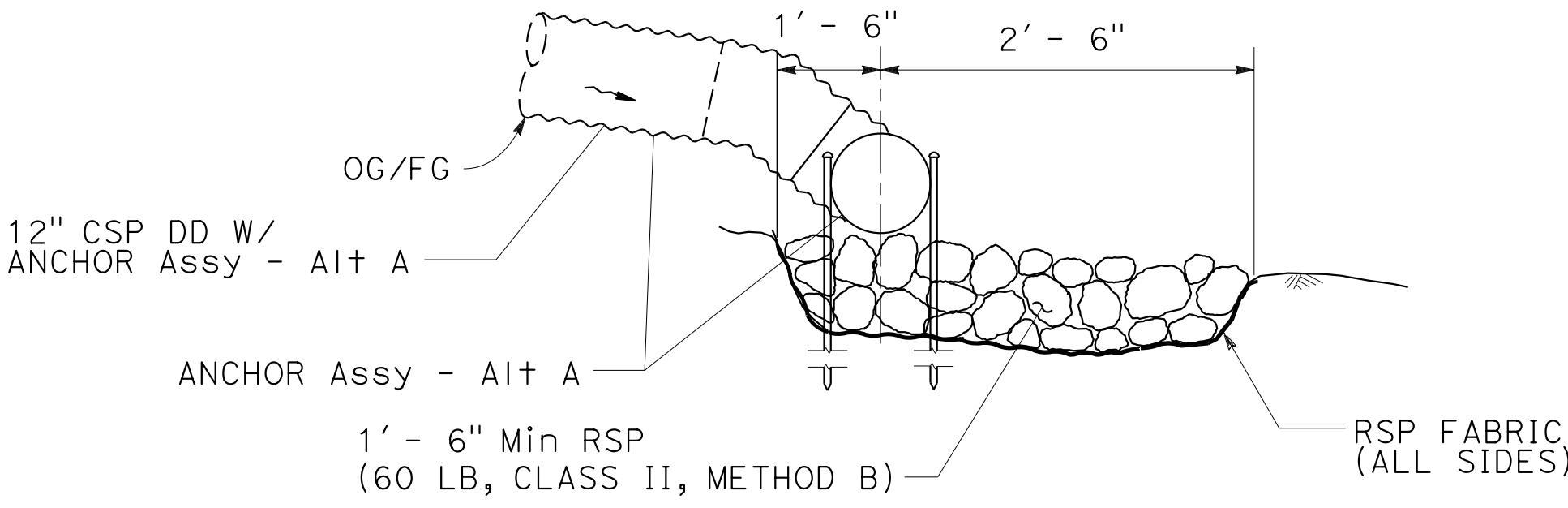
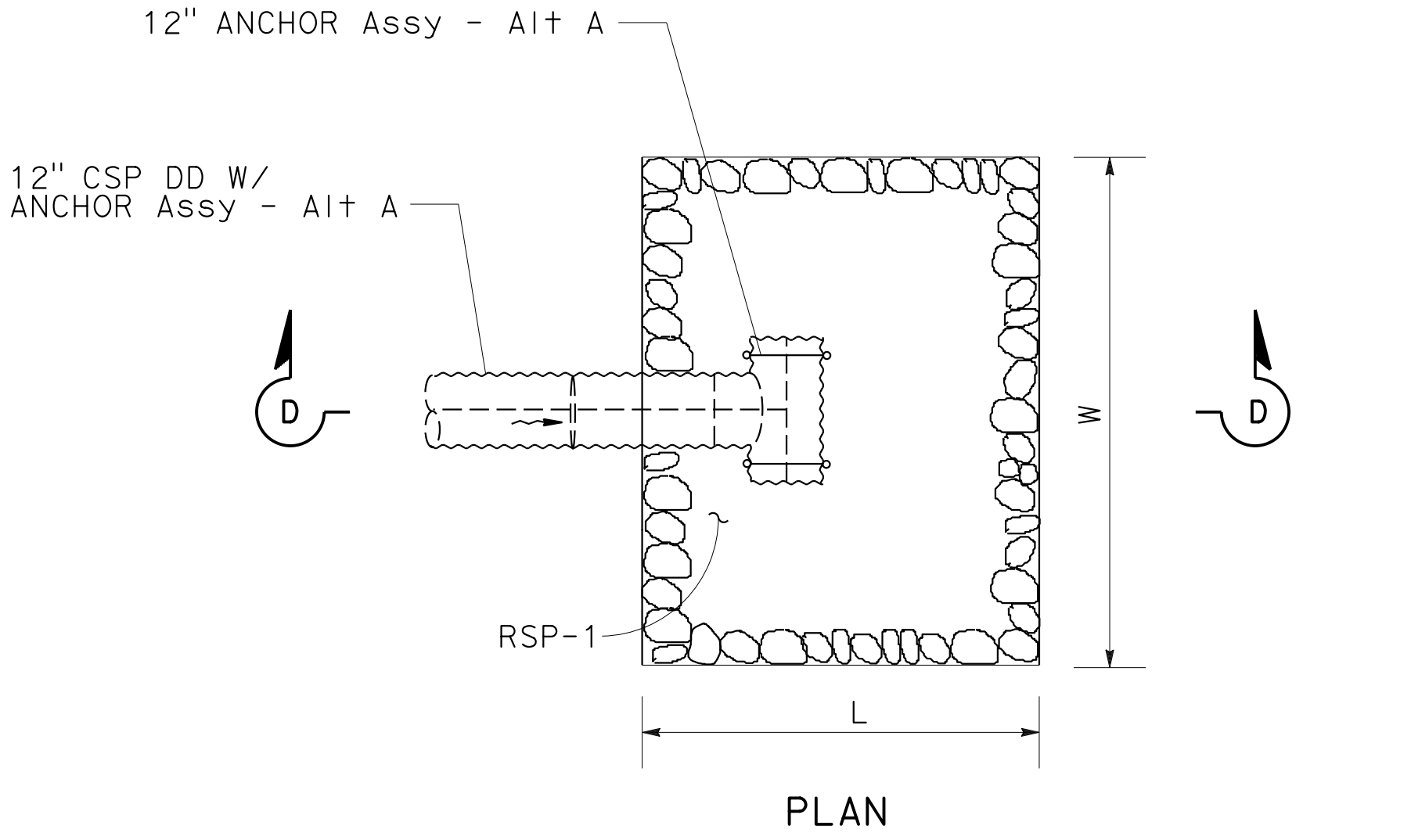
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans®	HYDRAULICS	FUNCTIONAL SUPERVISOR	CRAIG TOMIMATSU	CALCULATED/DESIGNED BY	CHECKED BY	ROWENA HOLLIS	ERIC KAWAKITA	REVISED BY	DATE REVISED	RH	4-9-20			



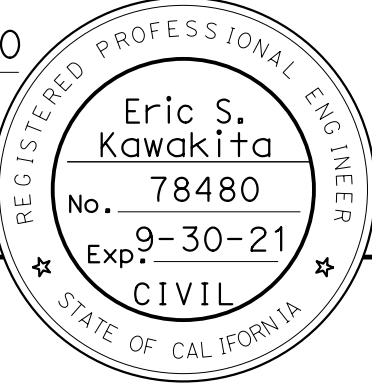
9" W x 12" D
GRADED LINE DRAIN
CONNECTION TO EXISTING
DRAINAGE STRUCTURE



CORRUGATED METAL PIPE DOWNDRAIN
ANCHOR ASSEMBLY - ALTERNATIVE A



SECTION D-D
ROCK SLOPE PROTECTION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	242	R0.0/R1.6	42	151
<i>Eric Kawakita</i>			4-9-20		
REGISTERED CIVIL ENGINEER			DATE		
June 10, 2020					
PLANS APPROVAL DATE					
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DRAINAGE DETAILS
NO SCALE

DD-4

STATE OF CALIFORNIA



DEPARTMENT OF TRANSPORTATION

HYDRAULICS

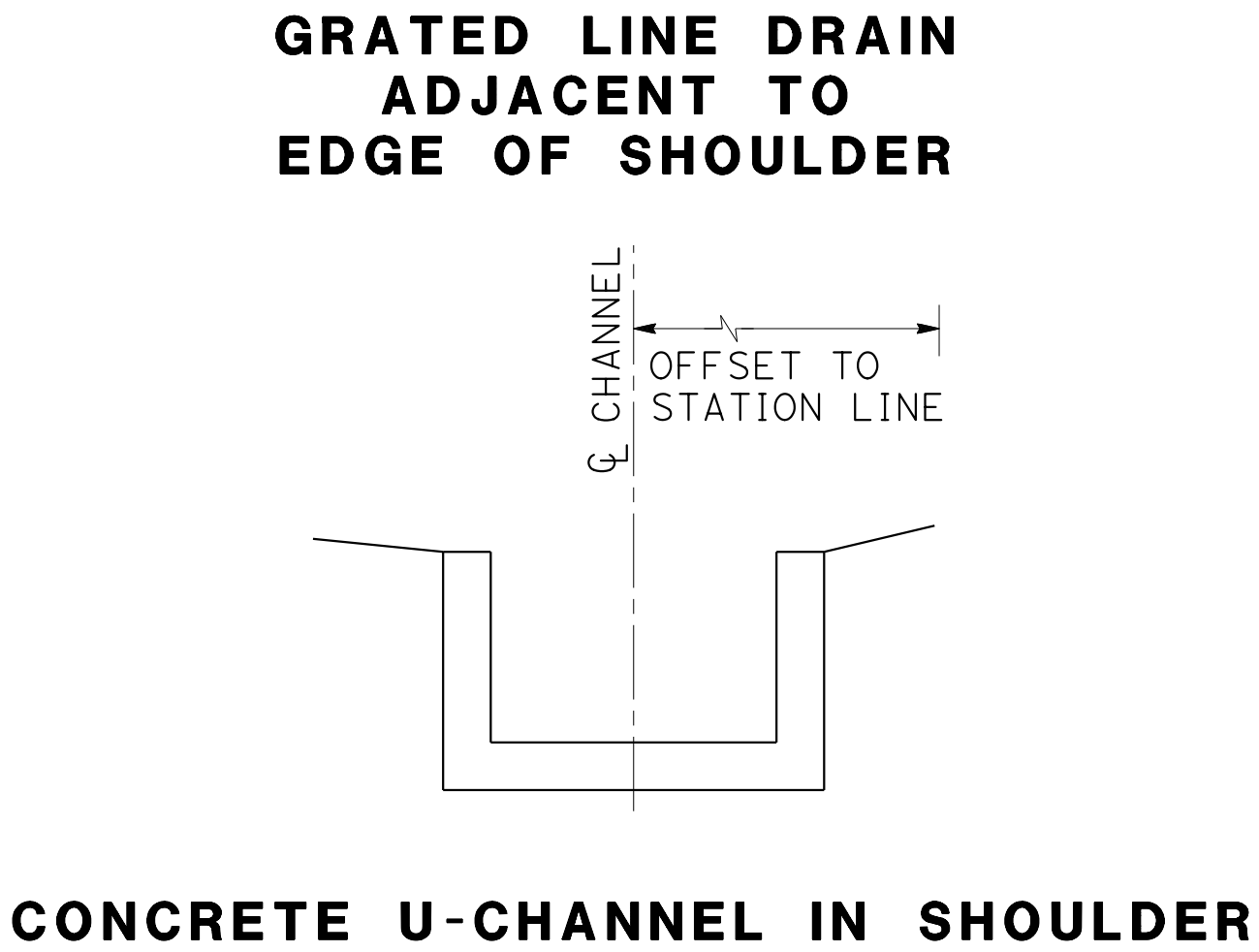
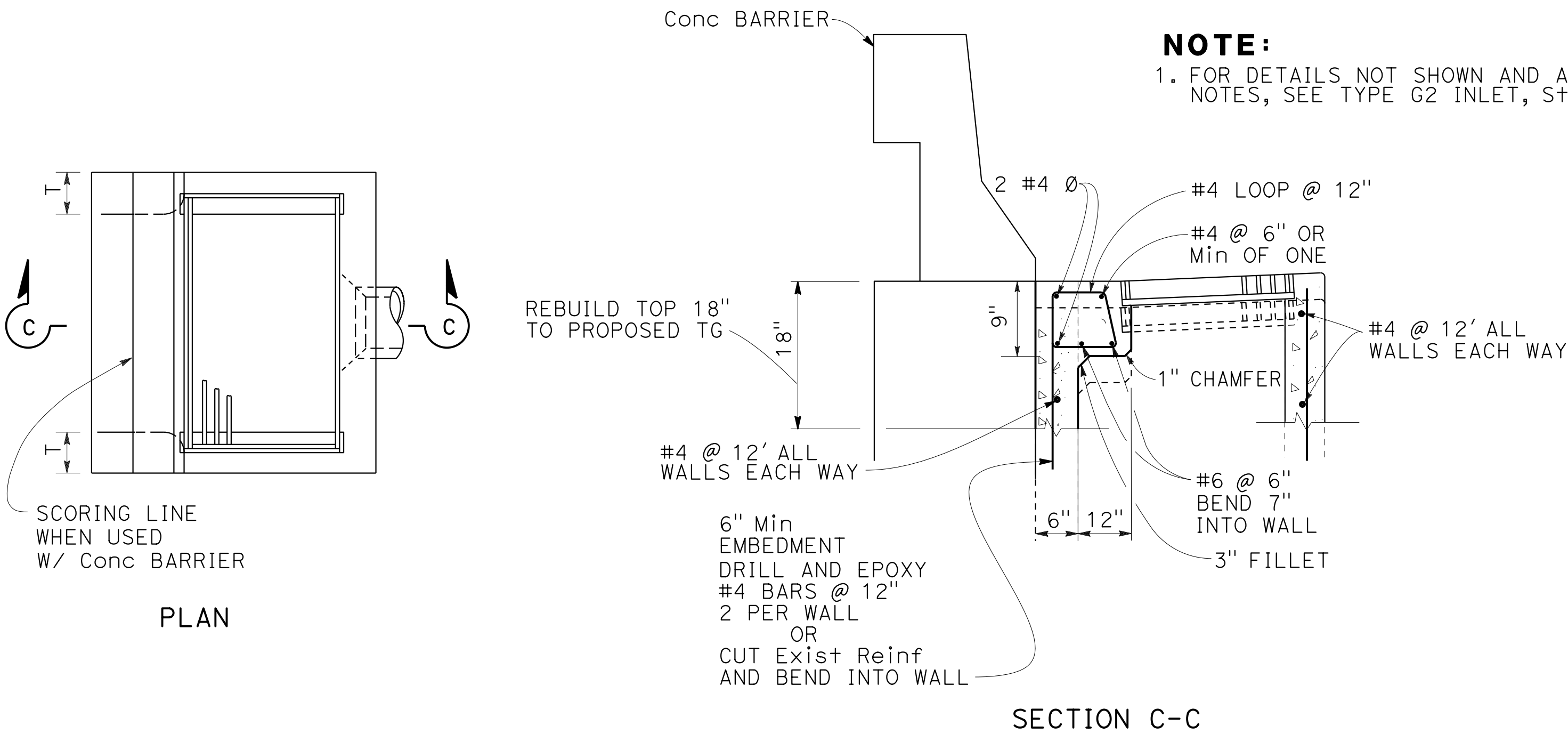
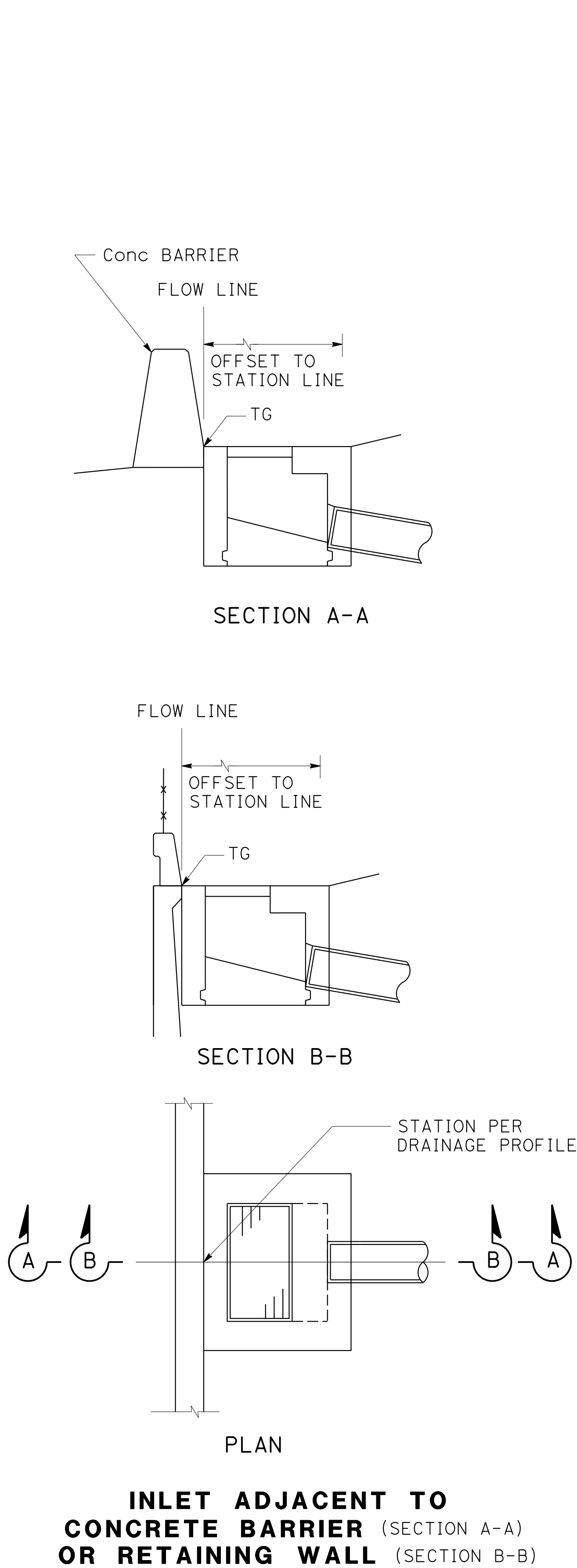
FUNCTIONAL SUPERVISOR
CRAIG TOMIMATSU

CALCULATED/DESIGNED BY
CHECKED BY

ROWENA HOLLIS
ERIC KAWAKITA

REVISED BY
DATE REVISED

RH
4-9-20



STATION OFFSETS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	242	R0.0/R1.6	43	151


REGISTERED CIVIL ENGINEER

4-9-20
DATE

June 10, 2020
PLANS APPROVAL DATE



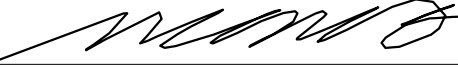
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DRAINAGE DETAILS

NO SCALE

DD-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	242	R0.0/R1.6	46	151



4-14-20

REGISTERED CIVIL ENGINEER

DATE

Manuel M. Canillao Jr.

No. 58845

Exp. 6-30-21

CIVIL

June 10, 2020

PLANS APPROVAL DATE

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DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	RSP (No. 1, METHOD B) (CY)	RSP (60 LB, CLASS II, METHOD B) (CY)	RSP FABRIC (CLASS 8)	12" ANCHOR ASSEMBLY	REMOVE DD (EA)	12" ENTRANCE TAPER	12" CSP DD	DOWNDRAIN ENERGY DISSIPATOR	18" TO 12" CORRUGATED STEEL ECCENTRIC REDUCER (0.079" THICK)	12" STEEL FES	24" STEEL FES	GRATED LINE DRAIN	CONCRETE (Conc APRON)	ADJUST FRAME AND GRATE TO GRADE	PIPE CLASSIFICATION	DESCRIPTION	STATION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
			CY	SQYD		EA			LF	EA				LF	CY	EA					
D-5	13	a		2.7	5.0													RSP (60 LB, CLASS II, METHOD B) W/ RSP FABRIC (CLASS 8)	67.8' R+ "E1" 163+53.31 66.7' R+ "E1" 163+47.86	13	a
	14	a						1.0										12" ENTRANCE TAPER (STEEL)	56' R+ "E1" 166+40.62	14	a
		b				3.0			46.0								DD	12" CSP DD W/ 3-ANCHOR Assy-AIt A	56' R+ "E1" 166+40.62 TO 100.6' R+ "E1" 166+40.62		b
		c		9.2	17.2													RSP (60 LB, CLASS II, METHOD B) W/ RSP FABRIC (CLASS 8)	56' R+ "E1" 166+40.62 AND 100.6' R+ "E1" 166+40.62		c
		d										1.0						12" STEEL FES	100.6' R+ "E1" 166+40.62		d
D-6	15	a											1.0					24" STEEL FES	241.1' R+ "E1" 168+17.24	15	a
		b		4.1	7.7													RSP (60 LB, CLASS II, METHOD B) W/ RSP FABRIC (CLASS 8)	241.1' R+ "E1" 168+17.24		b
	16	a												106				GRATED LINE DRAIN	98' R+ "E1" 171+77 TO 83.5' R+ "E1" 172+83.04	16	a
		b													0.16			Conc (Conc APRON)	98' R+ "E1" 171+77		b
		c														1.0		ADJUST FRAME AND GRATE TO GRADE	98' R+ "E1" 171+77		c
		d							10.0								DD	12" CSP DD	98' R+ "E1" 171+77		d
		e					1.0											REMOVE DD (PORTION)			e
	17	a	2.5		4.7													RSP (No. 1, METHOD B) W/ RSP FABRIC (CLASS 8)	146.5' R+ "E1" 171+58.13	17	a
	18	a					1.0											REMOVE DD	74.3' R+ "E1" 174+53.43	18	a
		b				6.0			72.0								DD	12" CSP DD W/ 6-ANCHOR Assy-AIt A	140' R+ "E1" 174+51.77 TO 74.3' R+ "E1" 174+53.43		b
		c		1.0	1.9													RSP (60 LB, CLASS II, METHOD B) W/ RSP FABRIC (CLASS 8)	140' R+ "E1" 174+51.77		c
		d														1.0		ADJUST FRAME AND GRATE TO GRADE	73' R+ "E1" 174+53.48		d
		e													0.2			Conc (Conc APRON)	73' R+ "E1" 174+53.48		e
SHEET TOTAL			2.5	17.0	36.5	9.0	2.0	1.0	128.0			1.0	1.0	106	0.36	2.0		SHEET TOTAL			
SHEET TOTAL FROM DQ-1				19.2	36.3	21.0	2.0	4.0	60.0	2.0	2.0	1.0						TOTAL FROM SHEET DQ-1			
TOTAL			2.5	36.2	72.8	30.0	4.0	5.0	188.0	2.0	2.0	2.0	1.0	106	0.36	2.0		TOTAL			