



# County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING  
STEVEN E. WHITE, DIRECTOR

August 5, 2020

Contract No. 20-07-C

**ADDENDUM NO. 1** to the Bidding and Contract Documents for Road Maintenance Rehabilitation Account (SB-1) Asphalt Concrete Overlays at Various Locations in Fresno County, revising the Bidding and Contract Documents as follows:

## COVER PAGE

No changes

## TABLE OF CONTENTS

No changes

## NOTICE TO BIDDERS

**Delete** the following:

The work to be done consists, in general, of of furnishing and placing hot mix asphalt (HMA) type A overlay on various existing roads in Fresno County. The base bid will require the placement of hot mix asphalt overlay over approximately 5.4 miles of roadway. An additional 2.0 miles of roads are included as additive bids.

**Replace** with:

The work to be done consists, in general, of of furnishing and placing hot mix asphalt (HMA) type A overlay on various existing roads in Fresno County. The base bid will require the placement of hot mix asphalt overlay over approximately 5.40 miles of roadway. An additional 2.36 miles of roads are included as additive bids.

## BID ITEMS AND APPLICABLE SECTIONS

**Add** the following line items:

ITEM NO	DESCRIPTION	UNIT	SECTION
731625	UNIDIRECTIONAL CURB RAMP	EA	73
731627	MODIFIED CURB RAMP	EA	73

## SPECIAL PROVISIONS

### Section 8-1.01A

**REMOVE:** First paragraph.

**Add to the end of the fourth paragraph:** Nighttime work must also be approved by County of Fresno Traffic Operations and City of Fresno Traffic Operations, when applicable.

#### **Section 39-3.04A**

**REMOVE:** Third paragraph.

#### **BID BOOK**

##### **PROPOSAL**

**Replace** Proposal 2 with Proposal 2a, attached.

#### **AGREEMENT**

No changes

#### **PROJECT DETAILS**

**Replace** Location Map with Location Map A, attached.

**Replace** Palm Ave Location 3 Drawing 6 with Drawing 6A, attached.

**Replace** Clovis Ave Location 4 Drawing 8 with Drawing 8A, attached.

**Replace** Clovis Ave Typical Section Drawing 9 with Drawing 9A, attached.

**Replace** Quantities-1 Drawing 16 with Drawing 16A, attached.

**Replace** Quantities-2 Drawing 17 with Drawing 17A, attached.

**Replace** Quantities-3 Drawing 18 with Drawing 18A, attached.

**Replace** Quantities-4 Drawing 19 with Drawing 19A, attached.

**Add** Clovis Ave Location 6A Drawing 27, attached.

**Add** Clovis Ave Typical Section Drawing 28, attached.

**Add** Quantities-5 Drawing 29, attached.

**Add** Clovis Ave Construction Zone Drawing 30, attached.

**Add** City of Fresno Standard Detail P-29, attached.

**Add** City of Fresno Standard Detail P-31, attached.

## END OF ADDENDUM NO. 1

-----  
Please attach this Addendum to the inside cover of the Specifications booklet. If you have given the Bidding and Contract Documents to someone else, please forward this Addendum.  
-----



Aug 5, 2020

\_\_\_\_\_  
Date Signed

Supervising Engineer: \_\_\_\_\_

\_\_\_\_\_  
Joseph C. Harrell, PE C80424  
Lic. Expiration: 3/31/21

FRESNO COUNTY  
**Department of Public Works and Planning**  
m/a 2220 Tulare Street, Suite 720  
Fresno, CA 93721-2106

**Attachments:**

Supplemental Information  
Proposal 2a  
Location Map A  
Drawing 6A  
Drawing 8A  
Drawing 9A  
Drawing 16A through 19A  
Drawing 27 through 30  
Drawing P-29  
Drawing P-31

## **SUPPLEMENTAL INFORMATION – Not Part of the Contract Documents**

The following list is comprised of paraphrased questions submitted by potential bidders or sub-bidders in writing via facsimile, email, or letter. These paraphrased questions and associated responses are not part of the contract documents and shall have no bearing whatsoever on the interpretation of the Standard Specifications, the Standard Plans, the Special Provisions, or the Plans. Nor shall they have any bearing whatsoever on the interpretation of other publications referenced therein.

1. **Question:** Will the county please replace the unit of measure for bid item 58 from \$ to LS, as it currently shows quantity of 1 and a unit of measure of \$ for an item price of \$300?

**Response:** The unit type will not be adjusted to LS. The cost is variable and unknown. Notice of Intent Bid Items will be paid based on the actual total cost of the permit.

2. **Question:** Will the County please renumber the bid items on the additive 5A Bid items list, as there is an item, (28) Paint Curb 2 coat, in between bid item 80 and 81?

**Response:** Corrected. Please see Addendum No. 1.

3. **Question:** Will the County please clarify where the imported borrow, bid items 10 and 61, are to be installed? On past projects the import borrow has been for shoulder backing. However, Spec section 39-3.02C, paragraph three, states, "Use cold planed material for shoulder backing inside the project limits, as per these specifications and as directed by the engineer."

**Response:** Bid Items 10 & 61 (Import Borrow) are to be installed on Clovis Ave. The sum of cold planed asphalt concrete pavement and replace asphalt concrete surfacing from Clovis Ave is less than the required shoulder backing quantity. Import borrow will be used to make up the difference.

4. **Question:** Sheet 17 of the plans show digouts to be 0.2' in depth. Section 39-3.05C states to remove base and surfacing to a depth of 6 inches. Please clarify.

**Response:** The details have been corrected. Refer to Section 39-3.05C. Please see Addendum No. 1.

5. **Question:** Drawing 16 provides a table of cold plane locations where the contractor is to conform back into intersections/side streets per detail on drawing 13. Since there is no table for Palm and Shaw Ave, is the contractor to assume we are not going to conform at any intersections along Palm and Shave Ave?

**Response:** Correct, we are not conform grinding side streets if we are already milling the main street.

6. **Question:** Section 39-3.04A paragraph 3 states the contractor is to cold plane and pave back in the same shift. Will the county reconsider and allow the contractor 7 days between cold plane and pave? Excluding digouts, of course.
- Response:** Agreed. Please see Addendum No. 1.
7. **Question:** Will night work be allowed?
- Response:** Night work will be considered with approval from the City and County Traffic Sections. Please see Addendum No. 1.
8. **Question:** The project documents do not indicate if the striping is 4" or 6" wide. Please clarify.
- Response:** All stripes are to be 4" wide.
9. **Question:** Replace asphalt surfacing show CY quantities for Base Bid item 13 and Additive Bid item 54. Is the county's intent of these items to be used to Grind, prep, pave asphalt (subgrade repairs) as shown on sheets 17-19? If so, is the buy and haul of asphalt to be paid in this item, or will all buy and haul of asphalt be paid in item 14 and 65? Please Clarify.
- Response:** Refer to Spec section 39-3.02C. Replace Asphalt Pavement includes all materials.
10. **Question:** Import Borrow bid items 10 and 61 show nearly 2,000 CY of material when combined. Will the county please clarify where the import borrow is to be placed, as it is not shown on any of the plan sheets, nor is it mentioned in the project special provisions?
- Response:** Please see response to Question 3.

COUNTY OF FRESNO  
DEPARTMENT OF PUBLIC WORKS AND PLANNING  
PROJECT: RMRA (SB-1) ASPHALT CONCRETE OVERLAYS  
CONTRACT NO. 20-07-C  
BASE BID (LOCATIONS 1-4)

ITEM NO.	ESTIMATED QUANTITY		UNIT OF MEASURE	ITEM	ITEM PRICE (IN FIGURES)	TOTAL PRICE (IN FIGURES)
1	90000		\$	SUPPLEMENTAL WORK (PAYMENT ADJUSTMENT FOR PRICE INDEX FLUCTUATIONS)	\$1.00	\$90,000.00
2	75000		\$	SUPPLEMENTAL WORK	\$1.00	\$75,000.00
3	8		EA	CONSTRUCTION PROJECT FUNDING SIGNS		
4	1	S	LS	TRAFFIC CONTROL SYSTEM		
5	10		EA	PORTABLE CHANGEABLE MESSAGE SIGN		
6	1		LS	JOB SITE MANAGEMENT		
7	1200		\$	STATE WATER RESOURCES CONTROL BOARD NOTICE OF INTENT	\$1.00	\$1,200.00
8	1		LS	PREPARE WATER POLLUTION CONTROL PLAN		
9	32	S	EA	TEMPORARY INLET PROTECTION		
10	3532		CY	IMPORTED BORROW		
11	5284	F	CY	SHOULDER BACKING		
12	1	F	LS	FINISHING ROADWAY		
13	502		CY	REPLACE ASPHALT CONCRETE SURFACING		
14	25184		TON	HOT MIX ASPHALT (TYPE A)		
15	92		TON	MINOR HOT MIX ASPHALT		
16	3015		LF	PLACE HOT MIX ASPHALT DIKE (TYPE E) CASE R		
17	282		SY	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)		
18	56		TON	TACK COAT		
19	3015		LF	REMOVE HOT MIX ASPHALT DIKE		
20	99698		SY	COLD PLANE ASPHALT CONCRETE PAVEMENT		
21	65		EA	ADJUST VALVE BOX FRAME AND COVER TO GRADE		
22	43		EA	ADJUST MANHOLE TO GRADE		
23	14		CY	MINOR CONCRETE (CURB, GUTTER, SIDEWALK AND DRIVEWAY)		
24	3		EA	UNIDIRECTIONAL CONCRETE CURB RAMP		
25	1		EA	MODIFIED CURB RAMP		
26	12		CY	MINOR CONCRETE VALLEY GUTTER		
27	467		SF	REMOVE CONCRETE (CURB, GUTTER, SIDEWALK & DRIVEWAY)		
28	636		SF	REMOVE VALLEY GUTTER		
29	6		EA	SURVEY MONUMENT (TYPE D)		
30	252		SF	PAINT CURB (2-COAT)		
31	891		EA	REMOVE PAVEMENT MARKER		
32	1279		EA	PAVEMENT MARKER (RETROREFLECTIVE) (TYPE C)		
33	17		EA	PAVEMENT MARKER (RETROREFLECTIVE) (TYPE BB)		
34	1294		EA	PAVEMENT MARKER (RETROREFLECTIVE) (TYPE H)		
35	4		EA	METAL MARKER POST		
36	4		EA	OBJECT MARKER (TYPE P)		

COUNTY OF FRESNO  
DEPARTMENT OF PUBLIC WORKS AND PLANNING  
PROJECT: SB-1 (RMRA) OVERLAYS  
CONTRACT NO. 20-07-C  
BASE BID (LOCATIONS 1-4)

ITEM NO.	ESTIMATED QUANTITY		UNIT OF MEASURE	ITEM	ITEM PRICE (IN FIGURES)	TOTAL PRICE (IN FIGURES)
37	25		EA	OBJECT MARKER (TYPE K-1)		
38	10402	S	LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 9)		
39	27300	S	LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 12)		
40	300	S	LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 21)		
41	27300	S	LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 25)		
42	27139	S	LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 27B)		
43	4408	S	LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 38)		
44	355	S	LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 38A)		
45	4363	S	SF	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING		
46	84164		LF	REMOVE THERMOPLASTIC TRAFFIC STRIPE		
47	2943		SF	REMOVE THERMOPLASTIC PAVEMENT MARKING		
48	14708	S	LF	PAINT TRAFFIC STRIPE (2-COAT) (DETAIL 9)		
49	6871	S	LF	PAINT TRAFFIC STRIPE (2-COAT) (DETAIL 22)		
50	78		LF	PAINT TRAFFIC STRIPE (EXTRUDED) (DETAIL 29)		
51	1265		LF	PAINT TRAFFIC STRIPE (EXTRUDED) (DETAIL 38)		
52	3446		SF	PAINT CROSSWALK AND PAVEMENT MARKING (2-COAT)		
53	99		EA	INDUCTIVE LOOP DETECTOR (TYPE A & TYPE D)		
54	1		LS	MOBILIZATION		
SUBTOTAL BASE BID (BID ITEMS 1 -54)						

S - SPECIALTY ITEM  
F - FINAL PAY ITEM

COUNTY OF FRESNO  
DEPARTMENT OF PUBLIC WORKS AND PLANNING  
PROJECT: RMRA (SB-1) ASPHALT CONCRETE OVERLAYS  
CONTRACT NO. 20-07-C  
ADDITIVE: 5A - CLOVIS AVE (JENSEN AVE - CENTRAL AVE)

ITEM NO.	ESTIMATED QUANTITY		UNIT OF MEASURE	ITEM	ITEM PRICE (IN FIGURES)	TOTAL PRICE (IN FIGURES)
55	40000		\$	SUPPLEMENTAL WORK (PAYMENT ADJUSTMENT FOR PRICE INDEX FLUCTUATIONS)	\$1.00	\$40,000.00
56	15000		\$	SUPPLEMENTAL WORK	\$1.00	\$15,000.00
57	2		EA	CONSTRUCTION PROJECT FUNDING SIGNS		
58	1	\$	LS	TRAFFIC CONTROL SYSTEM		
59	2		EA	PORTABLE CHANGEABLE MESSAGE SIGN		
60	300		\$	STATE WATER RESOURCES CONTROL BOARD NOTICE OF INTENT	\$1.00	\$300.00
61	1		LS	JOB SITE MANAGEMENT		
62	1		LS	PREPARE WATER POLLUTION CONTROL PROGRAM		
63	1518		CYD	IMPORTED BORROW		
64	2067	F	CYD	SHOULDER BACKING		
65	1	F	LS	FINISHING ROADWAY		
66	255		CY	REPLACE ASPHALT CONCRETE SURFACING		
67	10791		TON	HOT MIX ASPHALT		
68	174		TON	MINOR HOT MIX ASPHALT		
69	3019		LF	PLACE HOT MIX ASPHALT DIKE TYPE E (CASE R)		
70	377		SY	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)		
71	22		TON	TACK COAT		
72	3019		LF	REMOVE HOT MIX ASPHALT DIKE		
73	4405		SY	COLD PLANE ASPHALT CONCRETE PAVEMENT		
74	140		LF	FLUME DOWN DRAINS		
75	7		EA	8' ENTERANCE TAPER		
76	7		EA	FLUME ANCHOR ASSEMBLY		
77	1		EA	ADJUST MANHOLE TO GRADE		
78	2		EA	ADJUST VALVE BOX FRAME AND COVER TO GRADE		
79	7		EA	REMOVE OVERSIDE DRAINS		
80	3		CY	MINOR CONCRETE (CURB, GUTTER, SIDEWALK AND DRIVEWAY)		
81	131		SF	REMOVE CONCRETE (CURB, GUTTER, AND SIDEWALK& DRIVEWAY)		
82	4		EA	SURVEY MONUMENT (TYPE D)		
83	252		SF	PAINT CURB (2-COAT)		
84	282		EA	REMOVE PAVEMENT MARKER		
85	459		EA	PAVEMENT MARKER (RETROREFLECTIVE) (TYPE C)		
86	459		EA	PAVEMENT MARKER (RETROREFLECTIVE) (TYPE H)		
87	7		EA	METAL MARKER POST		
88	7		EA	OBJECT MARKER (TYPE L-1)		
89	15		EA	OBJECT MARKER (TYPE K-1)		
90	21437		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 12)		



91	280		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 21)		
92	21437		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 25)		
93	21437		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 27B)		
94	1454		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 38)		
95	280		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 38A)		
96	3230		SF	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING		
97	66325		LF	REMOVE THERMOPLASTIC TRAFFIC STRIPE		
98	3230		SF	REMOVE THERMOPLASTIC PAVEMENT MARKING		
99	18		EA	INDUCTIVE LOOP DETECTOR (TYPE A & TYPE D)		
100	1		LS	MOBILIZATION		
<b>SUBTOTAL ADDITIVE 5A (BID ITEMS 55 -100)</b>						

**S - SPECIALTY ITEM**

**F - FINAL PAY ITEM**

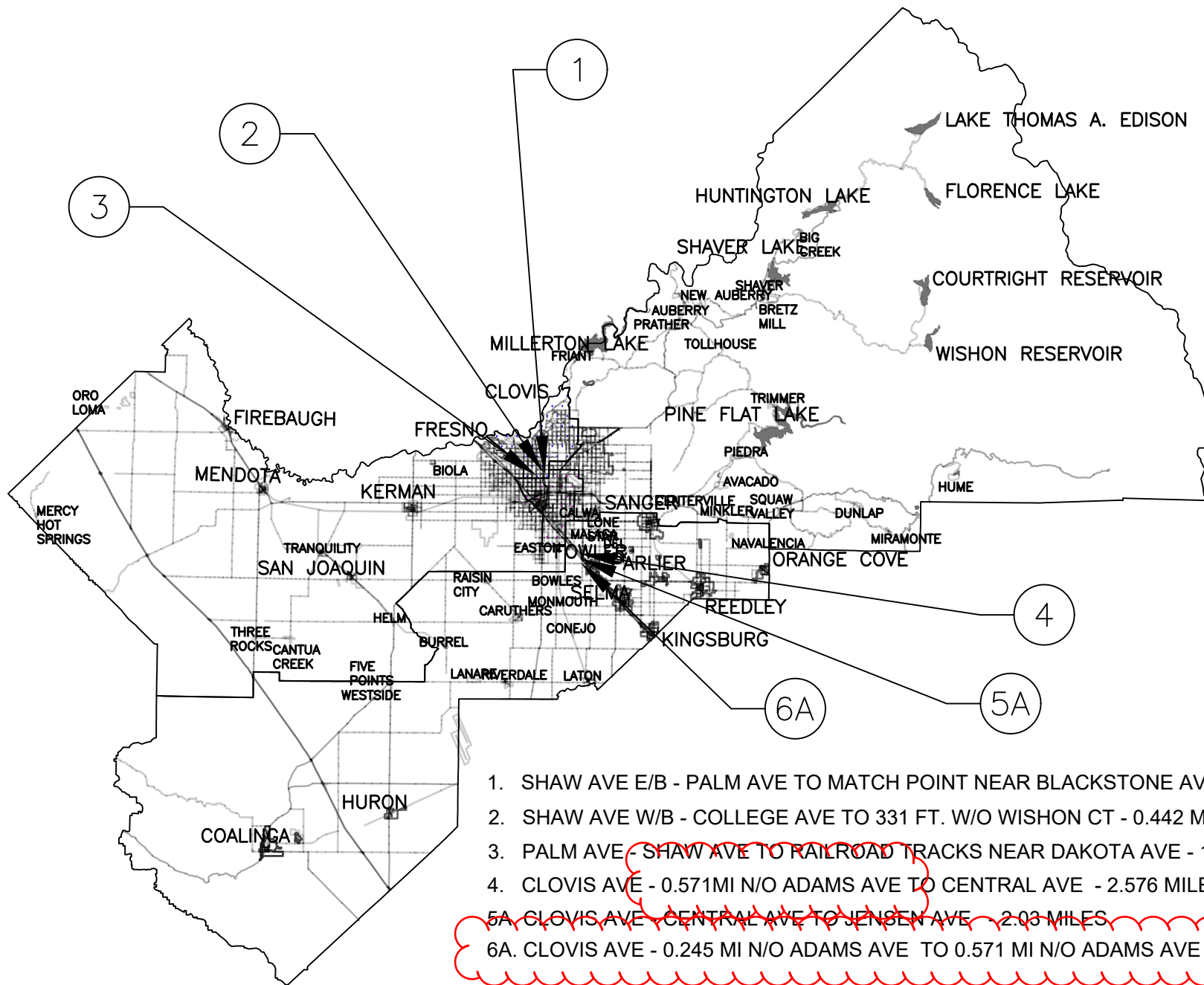
COUNTY OF FRESNO  
DEPARTMENT OF PUBLIC WORKS AND PLANNING  
PROJECT: RMRA (SB-1) ASPHALT CONCRETE OVERLAYS  
CONTRACT NO. 20-07-C  
ADDITIVE: 6A - CLOVIS AVE (0.245MI N/O ADAMS AVE - 0.571 MI N/O ADAMS AVE)

ITEM NO.	ESTIMATED QUANTITY	F/S	UNIT OF MEASURE	ITEM	ITEM PRICE (IN FIGURES)	TOTAL PRICE (IN FIGURES)
101	2500		\$	SUPPLEMENTAL WORK (PAYMENT ADJUSTMENT FOR PRICE INDEX FLUCTUATIONS)	\$1.00	\$2,500.00
102	5000		\$	SUPPLEMENTAL WORK	\$1.00	\$5,000.00
103	2		EA	CONSTRUCTION PROJECT FUNDING SIGNS		
104	1		LS	TRAFFIC CONTROL SYSTEM		
105	2		EA	PORTABLE CHANGEABLE MESSAGE SIGN		
106	300		\$	STATE WATER RESOURCES CONTROL BOARD NOTICE OF INTENT	\$1.00	\$300.00
107	1		LS	JOB SITE MANAGEMENT		
108	1		LS	PREPARE WATER POLLUTION CONTROL PROGRAM		
109	266	F	CYD	SHOULDER BACKING		
110	1	F	LS	FINISHING ROADWAY		
111	255		CY	REPLACE ASPHALT CONCRETE SURFACING		
112	2069		TON	HOT MIX ASPHALT (TYPE A)		
113	31		TON	MINOR HOT MIX ASPHALT		
114	1771		LF	PLACE HOT MIX ASPHALT DIKE TYPE E (CASE R)		
115	377		SY	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)		
116	22		TON	TACK COAT		
117	1771		LF	REMOVE HOT MIX ASPHALT DIKE		
118	14583		SY	COLD PLANE ASPHALT CONCRETE PAVEMENT		
119	2		EA	SURVEY MONUMENT (TYPE D)		
120	394		SF	PAINT CURB (2-COAT)		
121	145		EA	REMOVE PAVEMENT MARKER		
122	145		EA	PAVEMENT MARKER (RETROREFLECTIVE) (TYPE C)		
123	144		EA	PAVEMENT MARKER (RETROREFLECTIVE) (TYPE H)		
124	6		EA	OBJECT MARKER (TYPE K-1)		
125	3		EA	OBJECT MARKER (TYPE L-1)		
126	2525		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 12)		
127	170		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 22)		
128	2095		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 27B)		
129	513		LF	THERMOPLASTIC TRAFFIC STRIPE (EXTRUDED) (DETAIL 38)		
130	251		SF	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING		
131	1		LS	MOBILIZATION		
SUBTOTAL ADDITIVE 6A (BID ITEMS 101 -131)						

TOTAL BASE BID + ADDITIVE BID 5A + ADDITIVE 6A (BID ITEMS 1 -131)	
---	--


S - SPECIALTY ITEM  
F - FINAL PAY ITEM

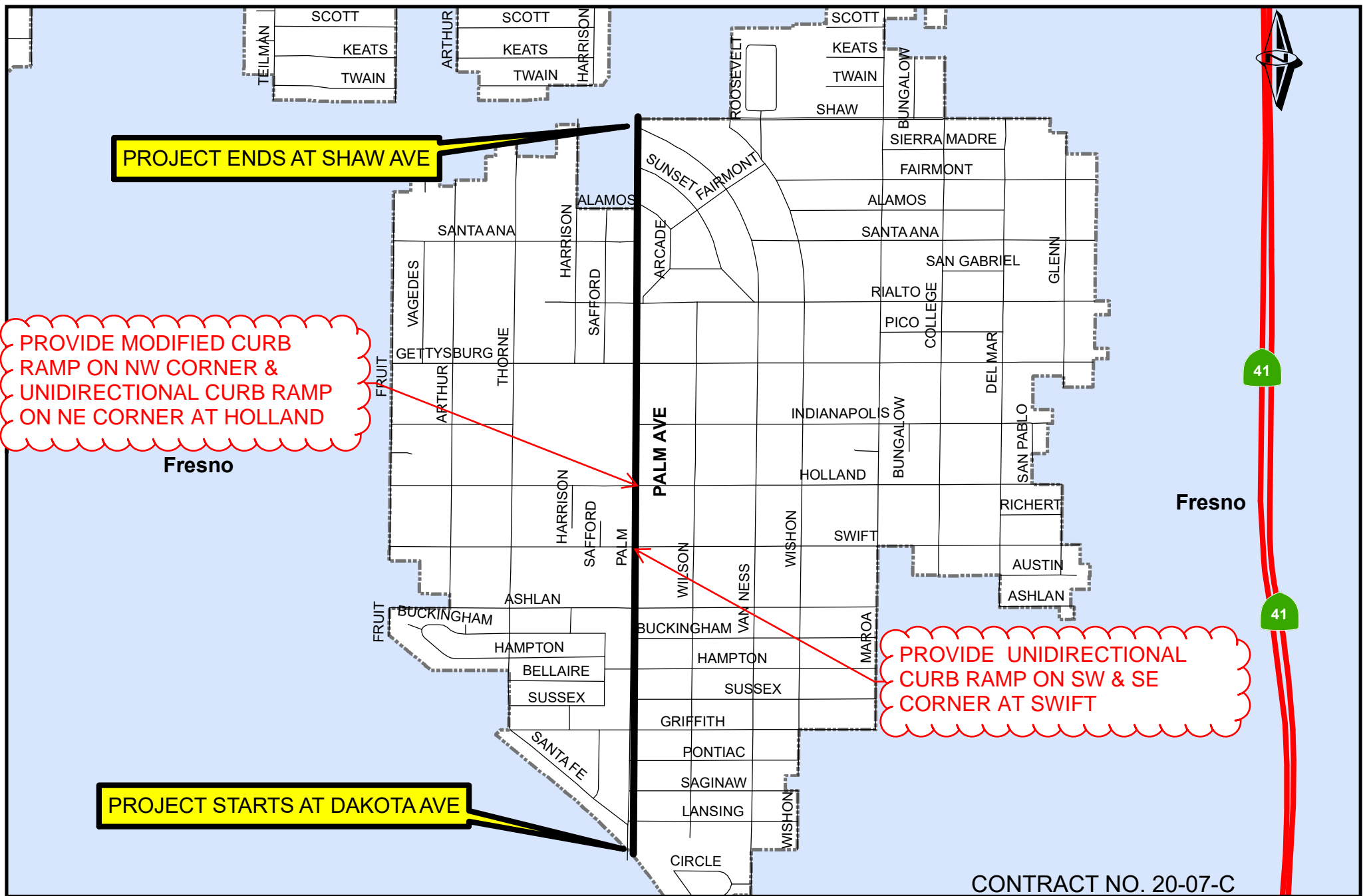
Proposal 2.5a



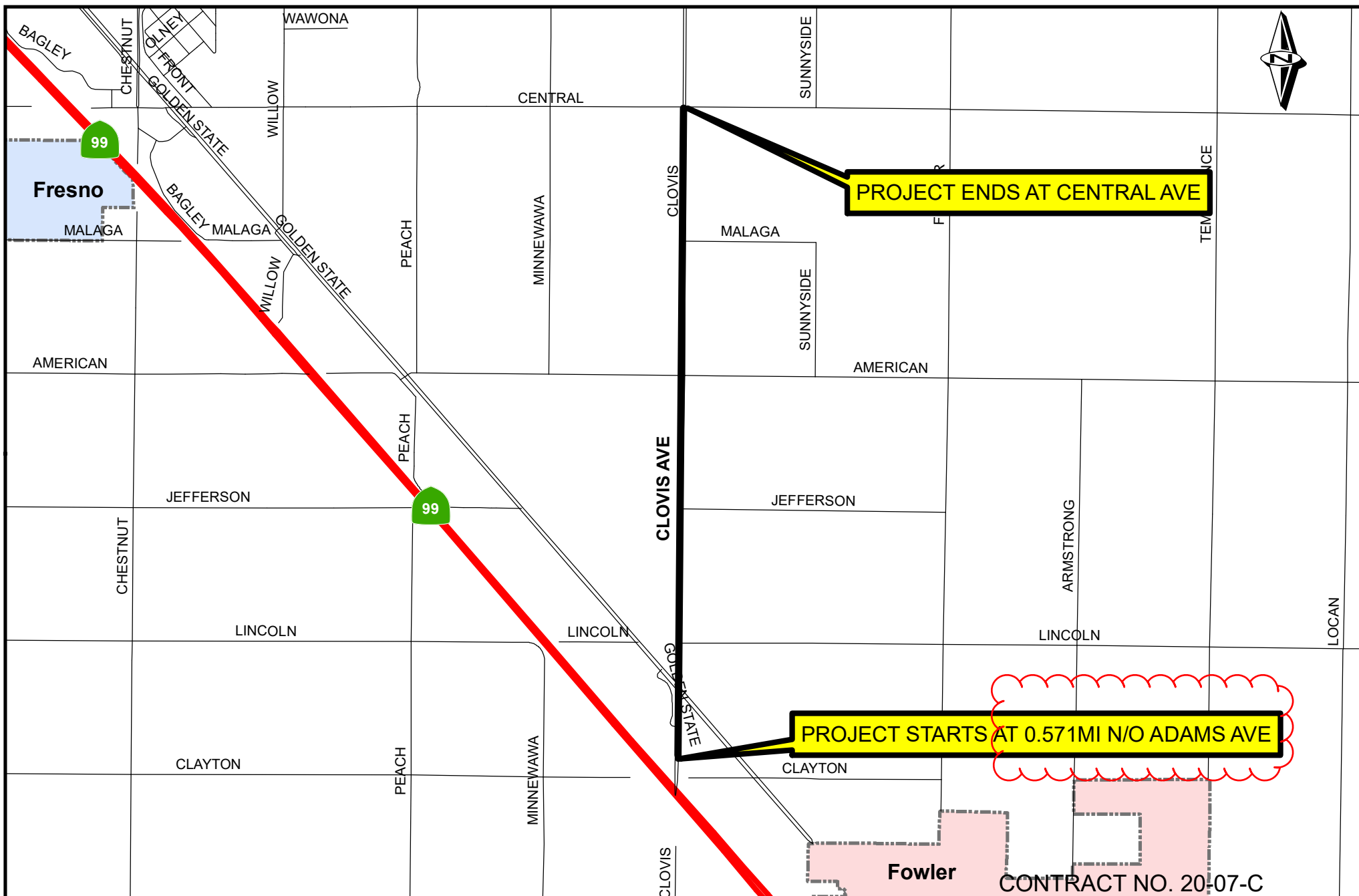
1. SHAW AVE E/B - PALM AVE TO MATCH POINT NEAR BLACKSTONE AVE - 0.909 MILES
2. SHAW AVE W/B - COLLEGE AVE TO 331 FT. W/O WISHON CT - 0.442 MILES
3. PALM AVE - SHAW AVE TO RAILROAD TRACKS NEAR DAKOTA AVE - 1.512 MILES
4. CLOVIS AVE - 0.571MI N/O ADAMS AVE TO CENTRAL AVE - 2.576 MILES
- 5A. CLOVIS AVE - CENTRAL AVE TO JENSEN AVE - 2.03 MILES
- 6A. CLOVIS AVE - 0.245 MI N/O ADAMS AVE TO 0.571 MI N/O ADAMS AVE - 0.332 MILES

CONTRACT NO. 20-07-C

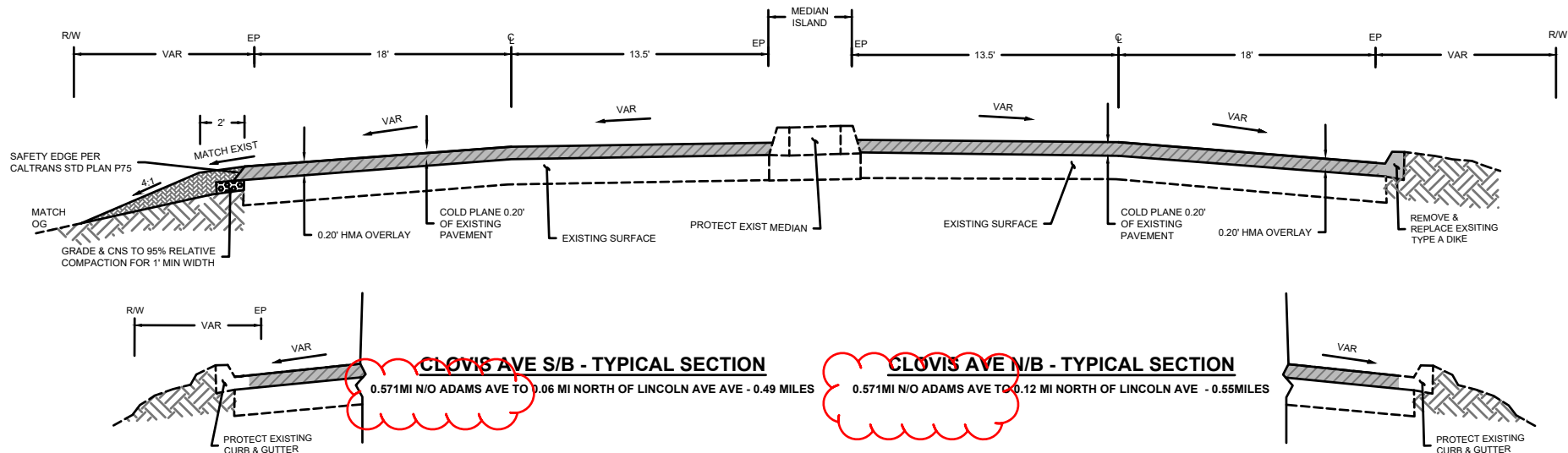
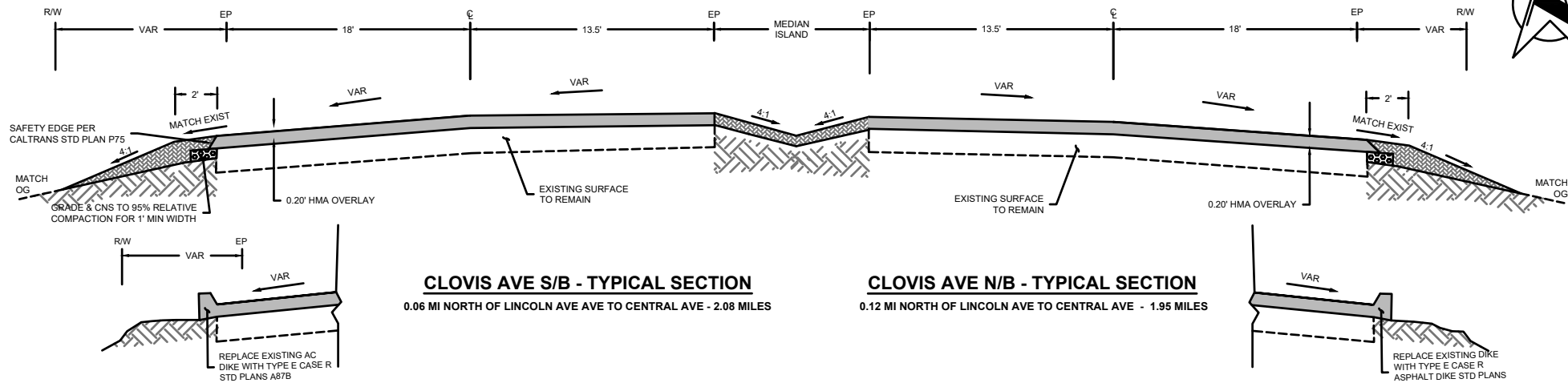
	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: B.K.	05/20	LOCATION MAP A		SB-1 OVERLAY PROJECT PROJECT LOCATIONS
DRAWN: B.K.	05/20			
CHECKED: J.H.	05/20			



	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS & PLANNING	
DESIGNED: B.K.	03/2020	DRAWING NO. 6 A LOCATION: 3		SB-1 OVERLAY PROJECT PALM AVENUE DAKOTA AVE - SHAW AVE	
DRAWN: B.K.	03/2020				
CHECKED BY:					



	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS & PLANNING	
DESIGNED: B.K.	03/2020	DRAWING NO. 8 A LOCATION: 4		SB-1 OVERLAY PROJECT	
DRAWN: B.K.	03/2020			CLOVIS AVENUE	
CHECKED BY:				0.571MI N/O ADAMS AVE - CENTRAL AVE	



### LEGEND

EP EDGE OF PAVEMENT  
HMA HOT MIX ASPHALT  
OG ORIGINAL GROUND  
R/W RIGHT OF WAY  
EXIST EXISTING  
VAR VARIES  
CNS COMPACT NATIVE SOIL

4" HMA OVERLAY  
SHOULDER BACKING  
NATIVE SOIL  
COLD PLANE

CONTRACT NO. 20-07-C

DESIGNED: B.K.	DATE: 03/20	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: B.K.	03/20	DRAWING NO. 9A		SB-1 OVERLAY PROJECT
CHECKED: J.H.	03/20	LOCATION 4		CLOVIS AVE TYPICAL SECTION

## CLOVIS AVE S/B MISCELLANEOUS AREAS

STA	LOCATION/STA	AREA (FT <sup>2</sup> )
62+03.50	DRIVEWAY	359
100+04.19	DRIVEWAY	317
100+72.32	DRIVEWAY	313
181+86.32	DRIVEWAY	305
183+65	DRIVEWAY	267
204+34.07	DRIVEWAY	200
231+45.94	DRIVEWAY	168
232+49.86	DRIVEWAY	173

## CLOVIS AVE N/B MISCELLANEOUS AREAS

STA	LOCATION/STA	AREA (FT <sup>2</sup> )
25+39.56	DRIVEWAY	439
26+78.59	DRIVEWAY	433
38+83.21	DRIVEWAY	185
107+80.04	DRIVEWAY	365
148+98.04	DRIVEWAY	256
228+10.88	DRIVEWAY	1645

## CLOVIS AVE TAPERED METAL FLUME &amp; INLET LOCATIONS

TAPPERED METAL FLUME INLET CLOVIS AVE S/B	
DIRECTION (POST MI)	E/P
0.357	R/S
0.415	R/S
0.542	R/S
0.587	R/S
0.631	R/S
0.702	R/S
0.893	R/S

## CLOVIS AVE AC DIKES

DIRECTION S/B	LENGTH (FT)	DIRECTION N/B	LENGTH (FT)
0.305 MI - 0.484 MI	963	0.046 MI	252
0.505 MI - 0.709 MI	1092	0.908 MI (JEFFERSON AVE)	160
0.997 MI (NORTH AVE)	160	1.428 MI (AMERICAN)	82
2.003 MI (CENTRAL AVE)	124	2.432 MI (CENTRAL)	560
2.124MI - 2.347 MI	1177	3.140 MI - 3.264MI	658
2.901MI - 3.009MI	575	4.325MI	146
3.045 MI AMERICAN AVE	85		

## CLOVIS AVE S/B COLD PLANE LOCATIONS

LOCATION/STA	AREA (FT <sup>2</sup> )
TIE-IN JENSEN AVE	5910
NORTH AVE	4363
CENTRAL AVE	3802
MALAGA AVE	3500
AMERICAN AVE	2200
JEFFERSON AVE	1940
FLOOD PLAIN + LINCOLN AVE & GOLDEN STATE BRIDGE & TIE-IN SR99	74475

## CLOVIS AVE N/B COLD PLANE LOCATIONS

LOCATION/STA	AREA (FT <sup>2</sup> )
TIE-IN SR99, LINCOLN AVE & GOLDEN STATE BRIDGE, G. STATE FRONTAGE RD	82242
JEFFERSON AVE	2970
AMERICAN AVE	2235
CENTRAL AVE	3776
NORTH AVE	4320
TIE-IN JENSEN AVE	14841


## CLOVIS AVE PAVED OVERSIDE / MISCELLANEOUS AREAS

DIRECTION S/B	EXIST/ NEW	DIRECTION N/B	EXIST/ NEW	LENGTH(FT)	WIDTH(FT)	AREA (FT <sup>2</sup> )
0.357 MI	NEW	3.199 MI	EXIST	13	5	140
0.415 MI	NEW			13	6	78
0.542 MI	NEW			13	6	78
0.587 MI	NEW			13	6	78
0.631 MI	NEW			13	5	65
0.702 MI	NEW			13	6	78
0.893 MI	NEW			13	5	65

## \*NOTE:

- 1) ALL READING ARE TAKEN FROM SR99 INTERCHANGE TO JENSEN AVE FOR THE N/B LANES.
- 2) ALL READING ARE TAKEN FROM JENSEN AVE TO SR99 INTERCHANGE FOR THE S/B LANES.

CONTRACT NO. 20-07-C

	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: B.KHALIQ	05/20	DRAWING NO. 16A		SB-1 OVERLAY PROJECT QUANTITIES-1
DRAWN: B.KHALIQ	05/20			
CHECKED: J.HARRELL	05/20			


**CLOVIS AVE SUB-GRADE & VALLEY GUTTER REPAIR**

ROAD	BEGIN	END	OBJECTS	CONCRETE CURB & VALLEY GUTTER REPAIRS	SUB-GRADE REPAIRS
CLOVIS AVE N/B	0.571MI N/O ADAMS AVE	JENSEN AVE	WATER VALVE 0.338 MI N/O SR 99 WATER VALVE 0.378 MI N/O SR 99	REFER TO SHEET 17	<p>SUB-GRADE REPAIR 0.00MI N/O SR99 12' X 60' RT-LANE  SUB-GRADE REPAIR 0.044 MI N/O SR99 4' X 359' CENTER OF ROADWAY  SUB-GRADE REPAIR 0.493 MI N/O SR99 170' X 10' CENTER OF ROADWAY  SUB-GRADE REPAIR 0.525 MI N/O SR99 400' X 6' RT-LANE  SUB-GRADE REPAIR 0.655 MI N/O SR99 50' X 4' LT-LANE  SUB-GRADE REPAIR 0.696 MI N/O SR99 10' X 10' CENTER OF THE ROADWAY  SUB-GRADE REPAIR 0.855 MI N/O SR99 90' X 4' RT-LANE  SUB-GRADE REPAIR 0.892 MI N/O SR99 150' X 4' RT-LANE  SUB-GRADE REPAIR 1.041 MI N/O SR99 150' X 10' RT-LANE  SUB-GRADE REPAIR 1.185 MI N/O SR99 200' X 24' BOTH LANES  SUB-GRADE REPAIR 0.933 MI N/O SR99 150' X 24' BOTH LANES  SUB-GRADE REPAIR 2.096 MI N/O SR99 20' X 6' SHLDR  SUB-GRADE REPAIR 2.439 MI N/O SR99 150' X 24' BOTH LANES  SUB-GRADE REPAIR 2.676 MI N/O SR99 160' X 4' RT-LANE  SUB-GRADE REPAIR 2.772 MI N/O SR99 148' X 18' RT-LANE  SUB-GRADE REPAIR 2.833MI N/O SR99 85' X 4' CENTER OF ROADWAY  SUB-GRADE REPAIR 2.927 MI N/O SR99 12' X 60' LT-LANE  SUB-GRADE REPAIR 2.972 MI N/O SR99 130' X 12' RT-LANE  SUB-GRADE REPAIR 3.499 MI N/O SR99 80' X 24' BOTH LANES  SUB-GRADE REPAIR 3.620 MI N/O SR99 150' X 4' RT-LANE  SUB-GRADE REPAIR 3.700 MI N/O SR99 135' X 4' RT-LANE  SUB-GRADE REPAIR 4.439 MI N/O SR99 24' X 100' BOTH LANES</p>
CLOVISAVE S/B	JENSEN AVE	0.571MI N/O ADAMS AVE	MANHOLE 0.527 MI S/O JENSEN AVE	REFER TO SHEET 17	<p>SUB-GRADE REPAIR 0.162 MI S/O JENSEN AVE 80' X 12' RT-LANE  SUB-GRADE REPAIR 0.229 MI S/O JENSEN AVE 55' X 4' RT-LANE  SUB-GRADE REPAIR 0.480 MI S/O JENSEN AVE 50' X 24' BOTH LANES  SUB-GRADE REPAIR 2.619 MI S/O JENSEN AVE 60' X 4' RT SHLDR  SUB-GRADE REPAIR 3.019 MI S/O JENSEN AVE 50' X 24' BOTH LANES  SUB-GRADE REPAIR 3.187 MI S/O JENSEN AVE 50' X 4' RT-LANE  SUB-GRADE REPAIR 3.326 MI S/O JENSEN AVE 227' X 13' LT-LANE</p>

**\*NOTE:**

- 1) ALL READINGS FOR N/B CLOVIS AVE RANGE FROM 0.571 Mi N/O ADAMS AVE TO JENSEN AVE.
- 2) ALL READING FOR S/B CLOVIS AVE RANGE FROM JENSEN AVE TO 0.571 Mi N/O ADAMS AVE

**CONTRACT NO. 20-07-C**

	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: B.KHALIQ	05/20	DRAWING NO. 17A		SB-1 OVERLAY PROJECT QUANTITIES-2
DRAWN: B.KHALIQ	05/20			
CHECKED: J.HARRELL	05/20			




## SHAW AVE SUB-GRADE & VALLEY GUTTER REPAIR

ROAD	BEGIN	END	OBJECTS	CONCRETE CURB & VALLEY GUTTER REPAIRS	SUB-GRADE REPAIRS
SHAW AVE E/B	PALM AVE	MATCHLINE @ BLACKSTONE AVE INTERSECTION	MANHOLE 0.130 MI E/O PALM AVE MANHOLE 0.130 MI E/O PALM AVE MANHOLE 0.165 MI E/O PALM AVE MANHOLE 0.240 MI E/O PALM AVE MANHOLE 0.356 MI E/O PALM AVE MANHOLE 0.399 MI E/O PALM AVE MANHOLE 0.492 MI E/O PALM AVE (2) WATER VALVES 0.499 MI E/O PALM AVE MANHOLE 0.553 MI E/O PALM AVE (3) WATER VALVES 0.618MI E/O PALM AVE MANHOLE 0.618 MI E/O PALM AVE MANHOLE 0.677 MI E/O PALM AVE (3) WATER VALVES 0.741MI E/O PALM AVE WATER VALVE 0.864MI E/O PALM AVE	VALLEY GUTTER REPAIR 0.03 MI E/O PALM AVE 4' X 74' VALLEY GUTTER REPAIR 0.052 MI E/O PALM AVE 4' X 32' GUTTER, CURB & CURB RAMP REPAIR 0.138 MI E/O PALM AVE 2' X 25' GUTTER, CURB & CURB RAMP REPAIR 0.414 MI E/O PALM AVE 2' X 42'	SUB-GRADE REPAIR 0.040 MI E/O PALM AVE 17' x 6' RT LANE SUB-GRADE REPAIR 0.138 MI E/O PALM AVE 30' X 10' RT LANE FULL WIDTH SUB-GRADE REPAIR 0.181 MI E/O PALM AVE 22' x 4' RT LANE SUB-GRADE REPAIR 0.580 MI E/O PALM AVE 6' x 4' RT LANE
SHAW AVE W/B	COLLEGE AVE	WISHON AVE	(2) MANHOLES 0.413 MI W/O MATCHLINE (2) WATER VALVES 0.413 MI W/O MATCHLINE WATER VALVE 0.509 MI W/O MATCHLINE WATER VALVE 0.513 MI W/O MATCHLINE WATER VALVE 0.533 MI W/O MATCHLINE MANHOLE 0.557 MI W/O MATCHLINE WATER VALVE 0.569 MI W/O MATCHLINE (2) WATER VALVES 0.637 MI W/O MATCHLINE WATER VALVE 0.654 MI W/O MATCHLINE (2) WATER VALVES 0.688MI W/O MATCHLINE	NONE	SUB-GRADE REPAIR 0.379 MI W/O MATCHLINE 6' x 4' RT LANE SUB-GRADE REPAIR 0.410 MI W/O MATCHLINE 4' x 6' MIDDLE OF INTERSECTON SUB-GRADE REPAIR 0.654 MI W/O MATCHLINE 79' x 5' RT LANE

**\*NOTE:**

- 1) ALL READINGS TAKEN ON E/B SHAW AVE RANGE FROM PALM AVE TO EXISTING MATCH POINT NEAR THE INTERSECTION OF BLACKSTONE AVE.
- 2) ALL READINGS TAKEN ON W/B SHAW AVE RANGE FROM EXISTING MATCH POINT NEAR THE INTERSECTION OF BLACKSTONE AVE TO 331FT W/O WISHON AVE.

CONTRACT NO. 20-07-C

	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: B.KHALIQ	05/20	DRAWING NO. 18A		SB-1 OVERLAY PROJECT  QUANTITIES- 3
DRAWN: B.KHALIQ	05/20			
CHECKED: J.HARRELL	05/20			


**PALM AVE** SUB-GRADE  
& VALLEY  
GUTTER  
REPAIR

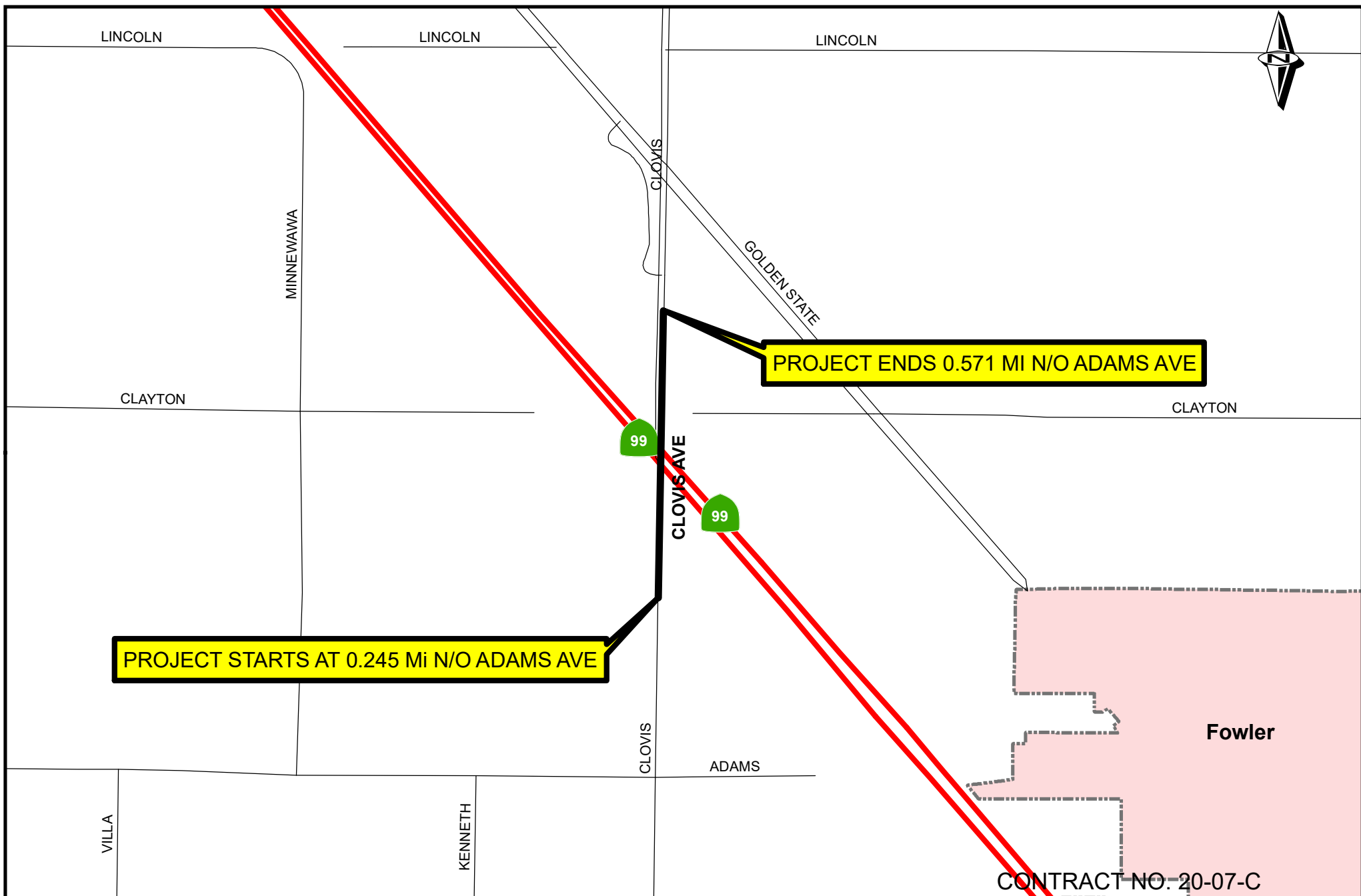
ROAD	BEGIN	END	OBJECTS	CONCRETE CURB & VALLEY GUTTER REPAIRS	SUB-GRADE REPAIRS
PALM AVE S/B	SHAW AVE	DAKOTA AVE	(2) WATER VALVES 0.245 MI S/O SHAWAVE MANHOLE 0.355 MI S/O SHAWAVE WATER VALVE 0.363 MI S/O SHAWAVE (2) WATER VALVES 0.372 MI S/O SHAWAVE MANHOLE 0.481 MI S/O SHAWAVE WATER VALVE 0.489 MI S/O SHAWAVE MANHOLE 0.500 MI S/O SHAWAVE MANHOLE 0.609 MI S/O SHAWAVE WATER VALVE 0.609 MI S/O SHAWAVE (2) WATER VALVES 0.618 MI S/O SHAWAVE (2) WATER VALVES 0.623 MI S/O SHAWAVE WATER VALVE 0.669 MI S/O SHAWAVE WATER VALVE 0.676 MI S/O SHAWAVE MANHOLE 0.691 MI S/O SHAWAVE WATER VALVE 0.730 MI S/O SHAWAVE (3) WATER VALVES 0.739 MI S/O SHAWAVE (3) WATER VALVES 0.864 MI S/O SHAWAVE MANHOLE 0.982 MI S/O SHAWAVE MANHOLE 0.985 MI S/O SHAWAVE (2) WATER VALVES 0.995 MI S/O SHAWAVE (2) WATER VALVES 0.997 MI S/O SHAWAVE (2) WATER VALVES 1.048 MI S/O SHAWAVE WATER VALVE 1.100 MI S/O SHAWAVE MANHOLE 1.111 MI S/O SHAWAVE (3) WATER VALVES 1.111 MI S/O SHAWAVE WATER VALVE 1.174 MI S/O SHAWAVE WATER VALVE 1.178 MI S/O SHAWAVE (2) WATER VALVES 1.231 MI S/O SHAWAVE WATER VALVE 1.234 MI S/O SHAWAVE MANHOLE 1.234 MI S/O SHAWAVE WATER VALVE 1.285 MI S/O SHAWAVE (2) WATER VALVES 1.299 MI S/O SHAWAVE MANHOLE 1.328 MI S/O SHAWAVE WATER VALVE 1.364 MI S/O SHAWAVE WATER VALVE 1.419 MI S/O SHAWAVE MANHOLE 1.420 MI S/O SHAWAVE WATER VALVE 1.422 MI S/O SHAWAVE	NONE	SUB-GRADE REPAIR 0.282 MI S/O SHAW AVE 15' x 4'
PALM AVE N/B	DAKOTA VE	SHAW AVE	MANHOLE 0.03 MI N/O RR TRACKS WATER VALVE 0.355 MI N/O RR TRACKS MANHOLE 0.097 MI N/O RR TRACKS MANHOLE 0.115 MI N/O RR TRACKS MANHOLE 0.198 MI N/O RR TRACKS MANHOLE 0.239 MI N/O RR TRACKS MANHOLE 0.297 MI N/O RR TRACKS MANHOLE 0.363 MI N/O RR TRACKS MANHOLE 0.384 MI N/O RR TRACKS (3) MANHOLES 0.475 & 0.479 MI N/O RR TRACKS MANHOLE 0.601 MI N/O RR TRACKS MANHOLE 0.694 MI N/O RR TRACKS MANHOLE 0.752 MI N/O RR TRACKS MANHOLE 0.791 MI N/O RR TRACKS MANHOLE 0.802 MI N/O RR TRACKS MANHOLE 0.850 MI N/O RR TRACKS MANHOLE 0.900 MI N/O RR TRACKS MANHOLE 0.976 MI N/O RR TRACKS MANHOLE 1.101 MI N/O RR TRACKS MANHOLE 1.191 MI N/O RR TRACKS MANHOLE 1.289 MI N/O RR TRACKS (2) WATER VALVES 1.377 MI N/O RR TRACKS WATER VALVE 1.433 MI N/O RR TRACKS	GUTTER, CURB & CURB RAMP REPAIR 0.802 MI N/O RR TRACKS 30' X 2'	SUB-GRADE REPAIR 0.802 MI N/O RR TRACKS 30' x 12'

\*NOTE:

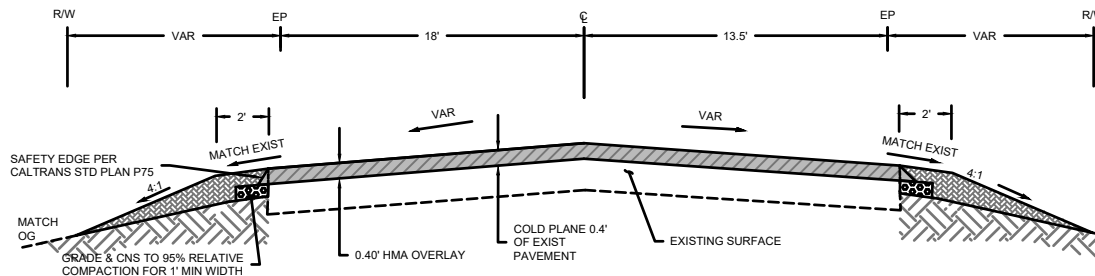
- 1) ALL READINGS FOR N/B PALM AVE RANGE FROM RAILROAD TRACKS TO SHAW AVE.
- 2) ALL READING FOR S/B PALM AVE RANGE FROM SHAW AVE TO RAILROAD TRACKS.

CONTRACT NO. 20-07-C

	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: B.KHALIQ	05/20	DRAWING NO. 19A		SB-1 OVERLAY PROJECT QUANTITIES- 4
DRAWN: B.KHALIQ	05/20			
CHECKED: J.HARRELL	05/20			



	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS & PLANNING
DESIGNED: B.K.	03/2020	DRAWING NO. 27 LOCATION: 6A		SB-1 OVERLAY PROJECT CLOVIS AVENUE 0.245 Mi N/O ADAMS AVE - 0.571 Mi N/O ADAMS AVE
DRAWN: B.K.	03/2020			
CHECKED BY:				

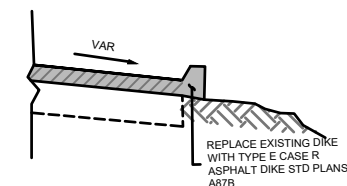
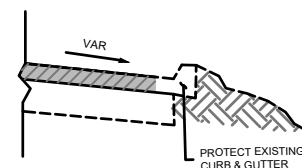
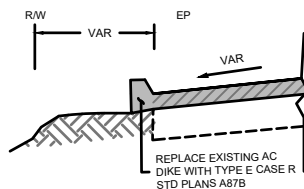
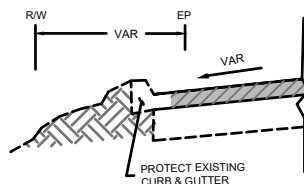
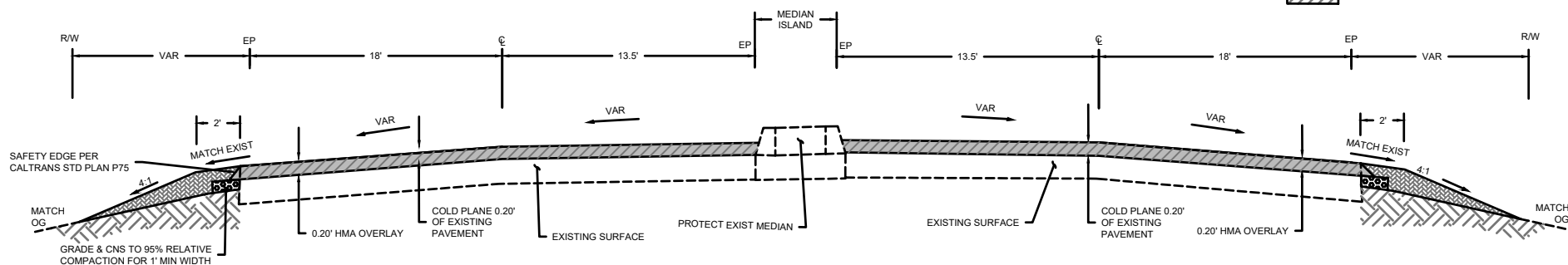


### LEGEND

EP	EDGE OF PAVEMENT
HMA	HOT MIX ASPHALT
OG	ORIGINAL GROUND
R/W	RIGHT OF WAY
EXIST	EXISTING
VAR	VARIES
CNS	COMPACT NATIVE SOIL
	3/4" HMA OVERLAY
	SHOULDER BACKING
	NATIVE SOIL
	COLD PLANE

### CLOVIS AVE S/B - TYPICAL SECTION

0.245 Mi N/O ADAMS AVE TO 0.277Mi N/O ADAMS AVE - 0.032 MILES



### CLOVIS AVE N/B - TYPICAL SECTION

0.276 N/O ADAMS AVE TO 0.571 Mi N/O ADAMS AVE - 0.295 MILES

CONTRACT NO. 20-07-C

DATE:

SCALE: NONE

DESIGNED: B.KHALIQ

03/20

DRAWN: B.KHALIQ

03/20

CHECKED: J.HARRELL

03/20

DRAWING NO. 28  
ADDITIVE. 6A



DEPARTMENT OF PUBLIC WORKS AND PLANNING

SB-1 OVERLAY PROJECT  
CLOVIS AVE TYPICAL SECTION

CLOVIS AVE(0.245 MI TO 0.571 MI N/O ADAMS AVE) **AC DIKES**

DIRECTION S/B	LENGTH (FT)	DIRECTION N/B	LENGTH (FT)
0.053 MI - 0.058 MI	20	0.086 MI - 0.13 MI	211
0.072 MI - 0.187 MI	610	0.150 MI - 0.23 MI	423
0.226 MI - 0.267 MI	210	0.290 MI - 0.326 MI	190

CLOVIS AVE(0.245 MI TO 0.571 MI N/O ADAMS AVE) **PAVED OVERSIDE / MISCELLANEOUS AREAS**

DIRECTION S/B	EXIST/ NEW	DIRECTION N/B	EXIST/ NEW	LENGTH(FT)	WIDTH(FT)	AREA (FT <sup>2</sup> )
0.097MI	EXIST	0.16MI	EXIST	13	5	130
		0.21MI	EXIST	13	5	130

\*NOTE:  
1) ALL READINGS FOR N/B CLOVIS AVE RANGE FROM 0.245 TO 0.571 N/O ADAMS AVE.  
2) ALL READING FOR S/B CLOVIS AVE RANGE FROM 0.571 TO 0.245 N/O ADAMS AVE


CLOVIS AVE(0.245 MI TO 0.571 MI N/O ADAMS AVE) **SUB-GRADE REPAIRS**

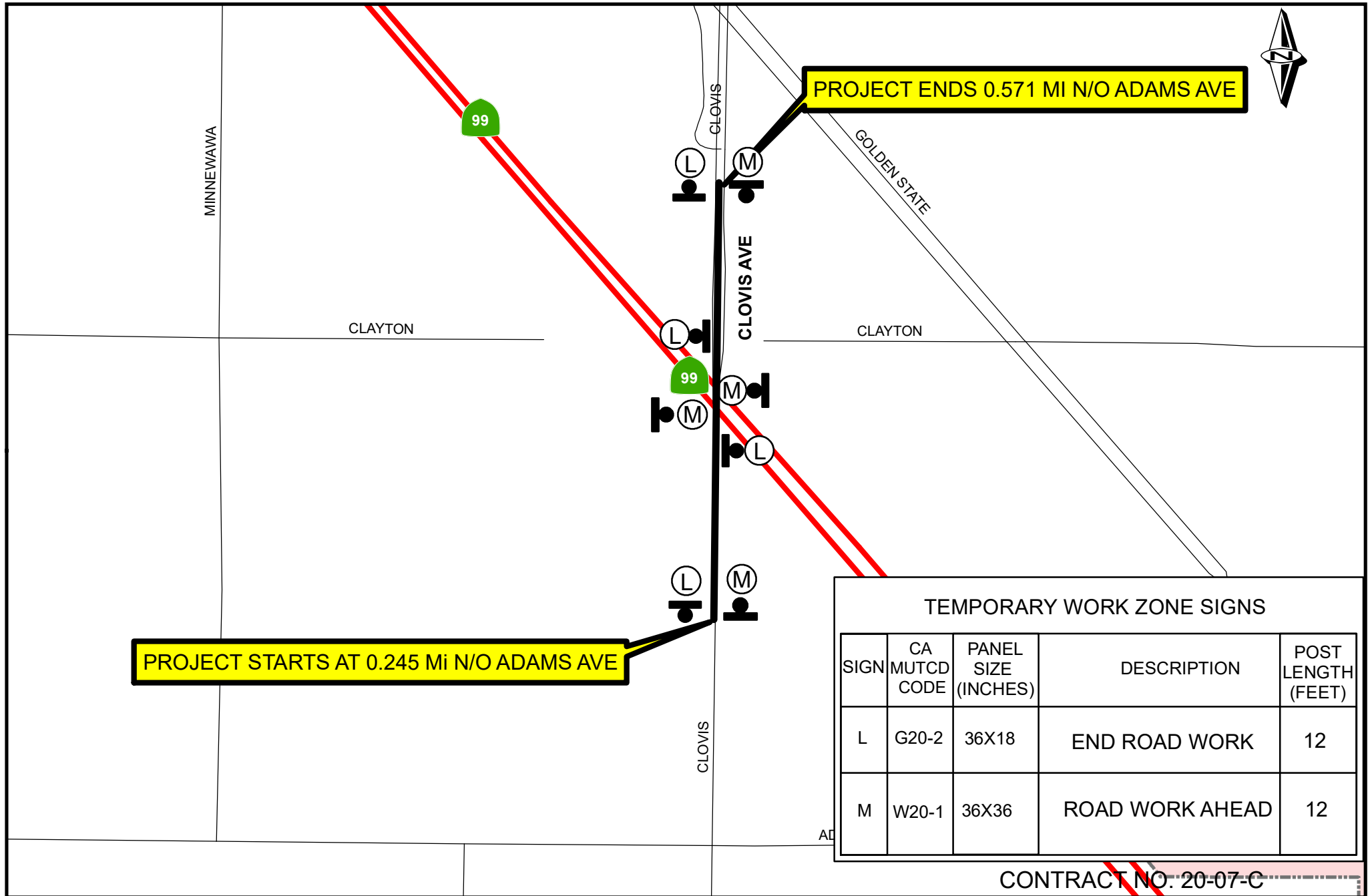
ROAD	BEGIN	END	OBJECTS	CONCRETE CURB & VALLEY GUTTER REPAIRS	SUB-GRADE REPAIRS
CLOVIS AVE N/B	0.245 MI N/O ADAMS AVE	0.571MI N/O ADAMS AVE			SUB-GRADE REPAIR 0.00MI N/O PROJECT START LIMIT 200" X 28' RT-LANE
CLOVISAVE S/B	0.571MI N/O ADAMS AVE	0.245 MI N/O ADAMS AVE			SUB-GRADE REPAIR 0.102 MI S/O PROJECT FINISH LIMIT AVE 460' X 18' LT-LANE

TRAFFIC STRIPING & PAVEMENT MARKINGS

ID	PROJECT - LIMITS	LENGTH		STRIPING									RPM			MARKINGS									
				DETAIL									TYPE			SLOW	LIMIT LINE	RR CROSSING SYMBOL	XING	CROSS WALK BASIC	CROSS WALK BASIC YELLOW	SCHOOL	"SIGNAL" "AHEAD"	TYPE 4 (L) ARROW	
		(MILES)	(FEET)	9 (LF)	12 (LF)	21 (LF)	22 (LF)	25 (LF)	27B	29 (LF)	38 (LF)	38A (LF)	H (EA)	BB (EA)	C (EA)	(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	
1	W SHAW AVE (WISHON CT - COLLEGE)	0.442	2,334	2,688						884		49	4	111		(SF)		(SF)			600				120
2	E SHAW AVE (PALM AVE - BLACKSTON AVE)	0.839	4,430	7,714						1,754		92	2	234							595				105
3	PALM AVE (DAKOTA AVE - SHAWAVE)	1.486	7,846	14,708		6871			78		1265		11		184	144	236	168	184	1608	280	252		390	
4	CLOVIS AVE N/B (0.571 N/O ADAMS AVE - JENSEN AVE)	4.606	24,320		22074	140		22074	21557		1218	385	460		460		137			1995			315	345	
5	CLOVIS AVE S/B (JENSEN AVE TO 0.571 N/O ADAMS AVE)	4.606	24,320		22066	160		22066	21539		1219	387	460		460		137			1995			315	345	
6A	CLOVIS AVE (0.245 N/O ADAMS AVE TO 0.571 N/O ADAMS AVE)	0.326	1,721		2525		170		2095		513		144		145		35						126	90	

CONTRACT NO. 20-07-C

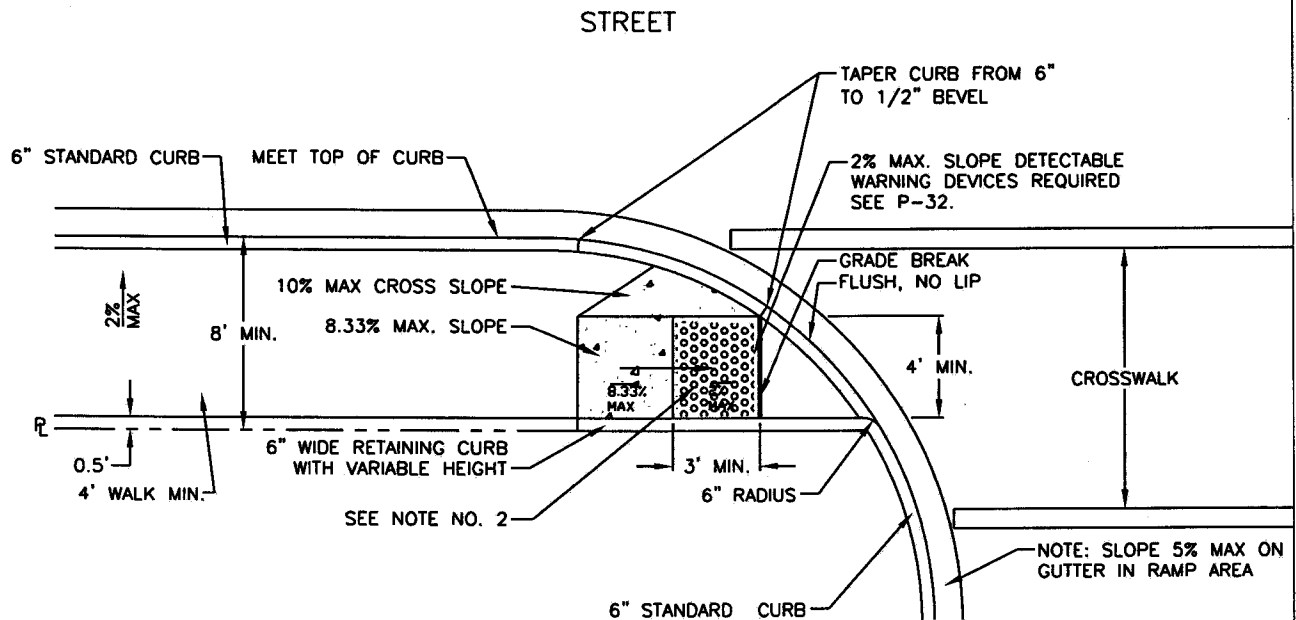
	DATE:	SCALE: NONE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DESIGNED: B.KHALIQ	05/20	DRAWING NO. 29		SB-1 OVERLAY PROJECT QUANTITIES- 5
DRAWN: B.KHALIQ	05/20			
CHECKED: J.HARELL	05/20			



TEMPORARY WORK ZONE SIGNS				
SIGN	CA MUTCD CODE	PANEL SIZE (INCHES)	DESCRIPTION	POST LENGTH (FEET)
L	G20-2	36X18	END ROAD WORK	12
M	W20-1	36X36	ROAD WORK AHEAD	12

CONTRACT NO. 20-07-C

DATE:		SCALE: NONE		DEPARTMENT OF PUBLIC WORKS & PLANNING	
DESIGNED: B.K.	03/2020	DRAWING NO. 30 LOCATION: 6A		SB-1 OVERLAY PROJECT	
DRAWN: B.K.	03/2020			CLOVIS AVENUE	
CHECKED BY:				0.245 Mi N/O ADAMS AVE - 0.571 Mi N/O ADAMS AVE	



#### NOTES:

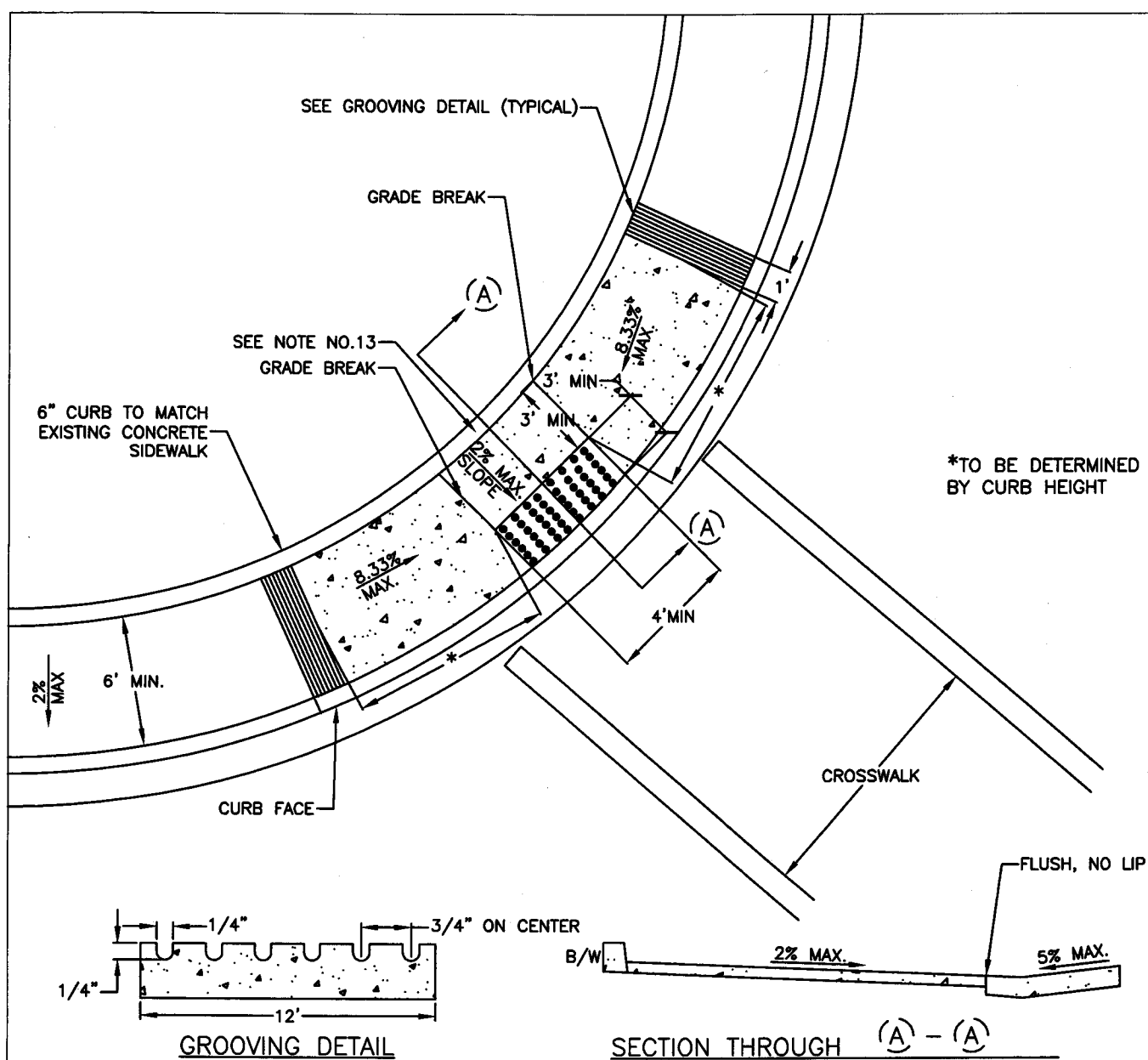
1. SURFACE OF CURB RAMP AND FLARED SIDE SHALL HAVE BROOM FINISH TRANSVERSE WITH THE PATH OF TRAVEL AND SHALL BE OF CONTRASTING FINISH TO THAT OF ADJOINING SIDEWALK.
2. ON THE BOTTOM LANDING WITH A 2% MAX. SLOPE, WHERE WALK ADJOINS A VEHICULAR WAY, USE TRUNCATED DOMES, IN-LINE PATTERN PER P.W. STD. P-32. WHERE BOTH ENDS OF THE BOTTOM GRADE BREAK FOR THE RAMP ARE LESS THAN 5' FROM THE BACK OF THE CURB THE DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE RAMP RUN WITH ONE DOME SPACING OF THE BOTTOM GRADE BREAK.
3. THE SLOPE OF ADJOINING GUTTERS, ROAD SURFACE OR ACCESSIBLE ROUTE WITHIN 4' OF THE BOTTOM OF THE RAMP SHALL NOT EXCEED 5% SLOPE.
4. RAMP SLOPE SHALL NEVER EXCEED 8.33%.
5. NOT USED.
6. PROVIDE LEVEL LANDING OF AT LEAST 48" ON UPPER END OVER FULL WIDTH OF RAMP, 2% MAX LEVEL LANDING.
7. THE LOWER END OF THE CURB RAMP SHALL TERMINATE WITHIN THE MARKED CROSSINGS.
8. RAMP SHALL BE MINIMUM OF 4' WIDE AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMAL OF SURFACE WARPING AND CROSS SLOPE.
9. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.

UNIDIRECTIONAL

MODIFIED CURB RAMP  
AT STREET TYPE DRIVEWAY APPROACH

REF. & REV.  
JUNE 2015

CITY OF FRESNO  
P-29



#### NOTES:

1. TRANSITIONS FROM RAMPS AND LANDING TO WALK, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
2. SURFACE OF CURB RAMP AND FLARED SIDES SHALL HAVE BROOM FINISH TRANSVERSE TO PATH OF TRAVEL AND SHALL BE OF CONTRASTING FINISH TO THAT OF ADJACENT SIDEWALK.
3. RAMP SLOPE SHALL NEVER EXCEED 8.33%.
4. THE SLOPE OF ADJOINING GUTTERS, ROAD SURFACE OR ACCESSIBLE ROUTE WITHIN 4' OF THE BOTTOM OF THE RAMP SHALL NOT EXCEED 5% SLOPE.
5. PROVIDE GROOVED BORDER 12" WIDE AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP AND EACH SIDE APPROX. 3/4" ON CENTER, 1/4" DEEP; 1/4" WIDE.
6. THE LOWER LANDING AREA LEADING INTO VEHICULAR WAY SHALL TERMINATE WITHIN THE MARKED CROSSING.
7. PROVIDE LEVEL LANDING OF AT LEAST 48" ON UPPER END AND OVER FULL WIDTH OF RAMP.
8. RAMP AND LOWER LANDING SHALL BE MINIMUM OF 4' WIDE AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
9. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.
10. ON THE BOTTOM LANDING WITH A 2% MAX. SLOPE, WHERE WALK ADJOINS A VEHICULAR WAY, DETECTABLE WARNING DEVICES SHALL BE REQUIRED ON THE FULL WIDTH AND 36" DEPTH, IN-LINE PATTERN PER P.W. STD. P-32.
11. THE DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
12. THIS RAMP TYPE SHALL ONLY BE USED WHEN NECESSARY DUE TO R/W OR PHYSICAL CONSTRAINTS. IT MAY BE UTILIZED FOR DIAGONAL OR DUAL RAMP APPLICATIONS.
13. MODIFIED RAMPS PLACED ON SIGNALIZED INTERSECTIONS SHALL HAVE A PEDESTRIAN POST FOR BUTTON PLACEMENT AT THE LOWER LANDING AREA FOR ADA REQUIREMENTS.