

WARNING: ALL INDIVIDUALS INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED ON THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING ON THIS PROJECT.

NOTES:

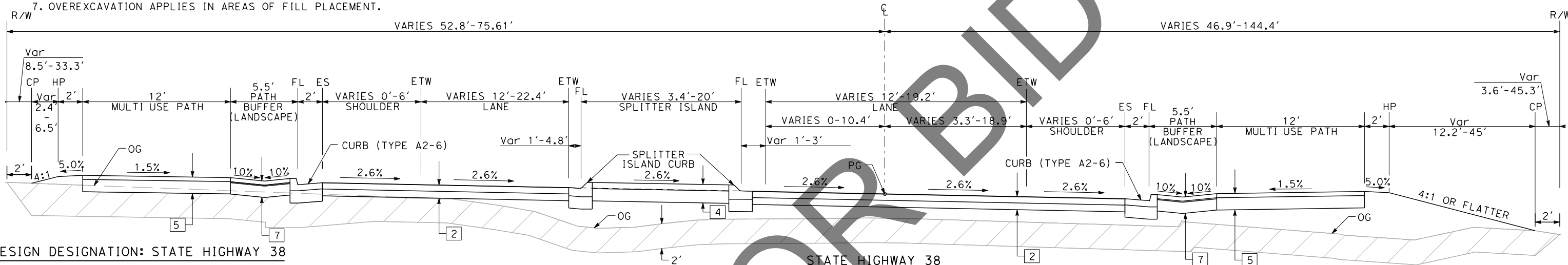
- FOR SECTION LOCATIONS, SEE SHEET PC-1.
- FOR DETAILS NOT SHOWN, SEE CONSTRUCTION DETAILS.
- FOR PATH BUFFER MATERIAL, SEE LANDSCAPE LAYOUT.
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIAGRAMS.
- ALL CP/HP TO BE SLOPE ROUNDED, SEE CALTRANS STD PLANS 2023.
- OVEREXCAVATION APPLIES IN AREAS OF FILL PLACEMENT.

DESIGN DESIGNATION: STANFIELD CUTOFF

ADT (2023)	5,390	D	50%
ADT (2043)	5,860	T	3.50%
DHV	1,120	V	35 MPH
ESAL		TI	9.5

LEGEND:

 OVER EXCAVATE



DESIGN DESIGNATION: STATE HIGHWAY 38

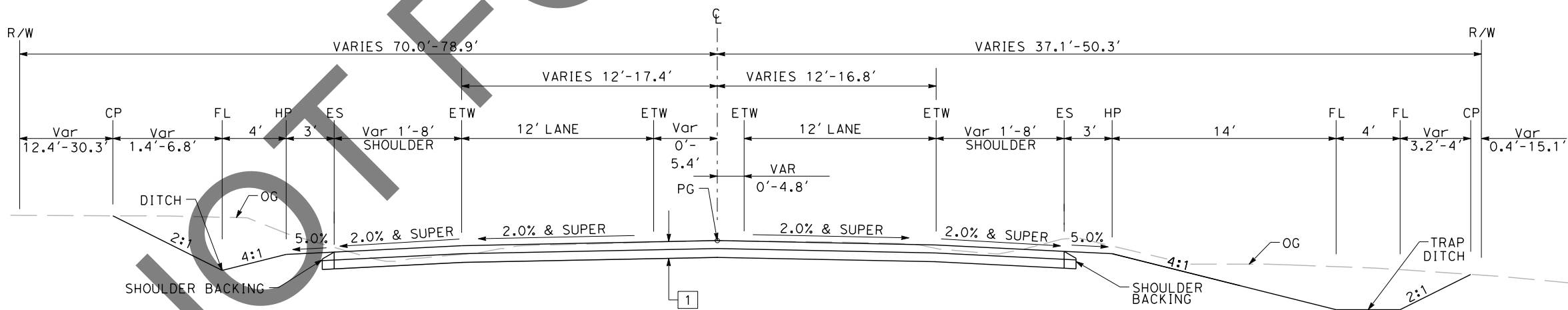
ADT (2023)	5,390	D	50%
ADT (2043)	5,860	T	3.50%
DHV	1,120	V	40 MPH
ESAL		TI	9.5
ROUNDBOULT DESIGN SPEED 25 MPH			

PAVEMENT CLIMATE REGION


SOUTH MOUNTAIN

TYPICAL PAVEMENT STRUCTURAL SECTIONS

- 1 = 0.60' HMA (TYPE A)
0.55' CL 2 AB
- 2 = 0.02' HIGH FRICTION SURFACE TREATMENT (HFST)
0.60' HMA (TYPE A)
0.55' CL 2 AB
- 3 = 0.67' JPCP
1.00' CL 2 AB
- 4 = 0.50' MINOR CONCRETE (ISLAND PAVING)
1.00' CL 2 AB
- 5 = 0.33' MINOR CONCRETE (SIDEWALK)
1.00' CL 2 AB
- 6 = 0.33' MINOR CONCRETE (CURB RAMP)
1.00' CL 2 AB
- 7 = 0.33' PERMEABLE PAVERS
0.08' SAND BEDDING
0.92' CL 2 AB





EXISTING PAVEMENT STRUCTURAL SECTIONS

 Exist
6.5" AC
7.5" AB

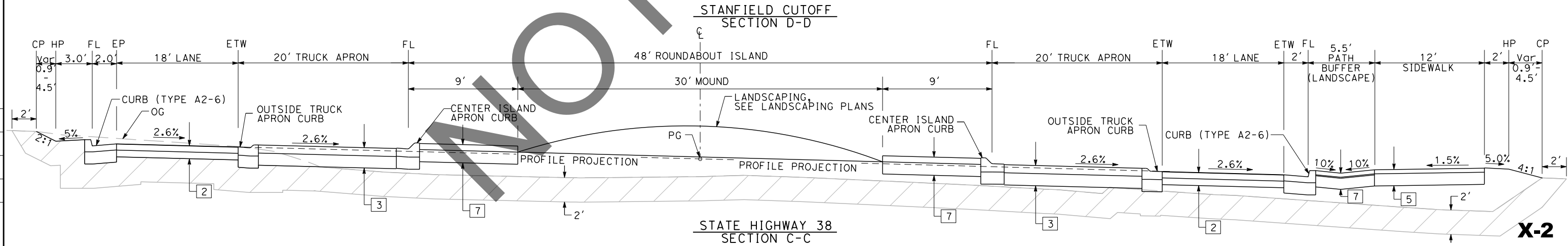
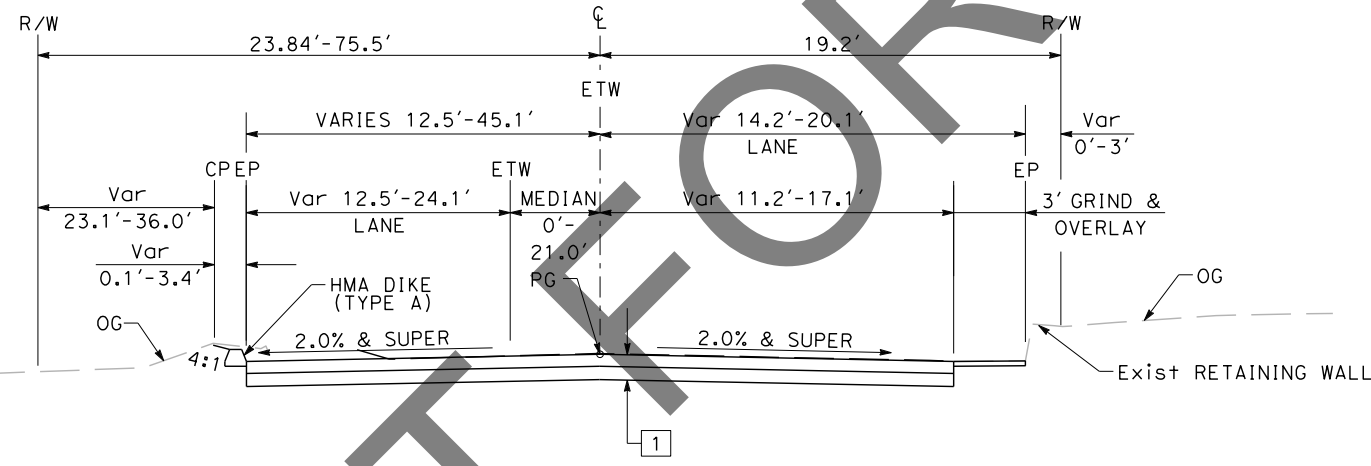
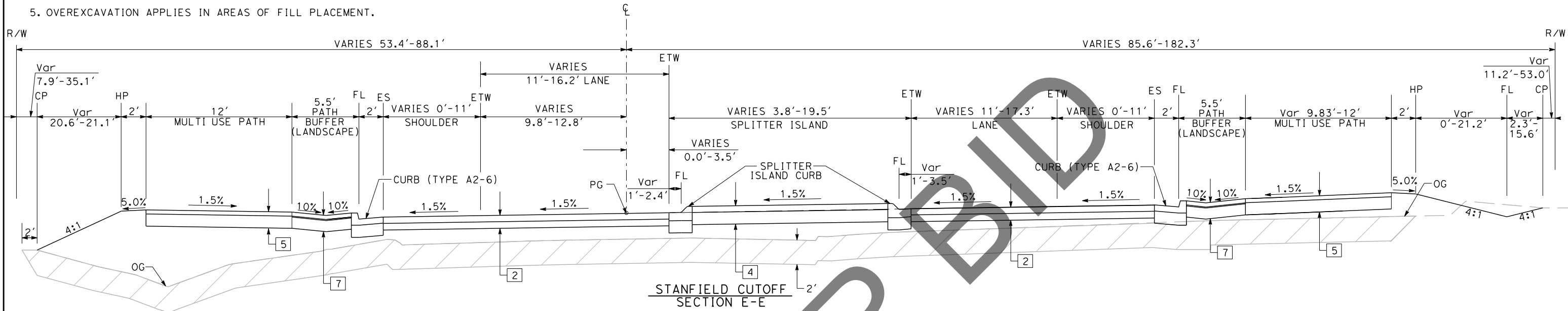
X-1

REVISION 01/12/2023
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:57:48 PM
 USERNAME => dnucl1
 DGN FILE => 2553cd001.dgn

<p>Underground Service Alert</p>  <p>Call: 811</p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>	<p>BENCHMARK</p> <p>S.B.CO BRASS DISK STAMPED 63-1-12 1975 ON TOP OF CURB. +/- 28" SOUTHERLY FROM HWY 38 & 0.15 MILES EASTERLY FROM INTERSECTION HWY 38 & STANFIELD CUTOFF AS SHOWN PER SPSN 00271. NGVD-29 ELEVATION = 6789.402</p>	<p>PREPARED BY:</p> <p>DE DOKKEN ENGINEERING</p> <p>110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642</p> <p>06/12/24 DATE</p> <p>MATTHEW ATKINSON, PROJECT MANAGER</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MARK</th> <th>REVISIONS</th> <th>APPR</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	MARK	REVISIONS	APPR	DATE					<p style="text-align: center;">SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>DESIGNED BY: <i>Chris Nguyen</i> 6/26/24 DATE</p> <p>TRANSPORTATION DESIGN ENGINEERING MANAGER</p> <p>THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER</p> <p>6/26/24 DATE</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY: <i>RS</i></td> <td>DRAWN BY: <i>JP</i></td> <td>CHECKED BY: <i>LK</i></td> </tr> <tr> <td>APPROVED BY: <i>Thomas Bustamonte</i></td> <td colspan="2">6/26/2024 DATE</td> </tr> <tr> <td colspan="3">MEHMET MIKHAIL, P.E. DEPUTY DIRECTOR</td> </tr> </table>	DESIGNED BY: <i>RS</i>	DRAWN BY: <i>JP</i>	CHECKED BY: <i>LK</i>	APPROVED BY: <i>Thomas Bustamonte</i>	6/26/2024 DATE		MEHMET MIKHAIL, P.E. DEPUTY DIRECTOR			<p>TYPICAL SECTIONS NO SCALE</p> <p>STATE HIGHWAY 38 STANFIELD CUTOFF ROUNDBOULT</p> <p>BIG BEAR AREA</p>	<p>ROAD NO.</p> <p>W.O. NO. H15055</p> <p>SHEET 2 OF 72</p>
MARK	REVISIONS	APPR	DATE																						
DESIGNED BY: <i>RS</i>	DRAWN BY: <i>JP</i>	CHECKED BY: <i>LK</i>																							
APPROVED BY: <i>Thomas Bustamonte</i>	6/26/2024 DATE																								
MEHMET MIKHAIL, P.E. DEPUTY DIRECTOR																									

NOTES:

1. FOR DETAILS NOT SHOWN, SEE CONSTRUCTION DETAILS.
2. SUPERELEVATIONS SHOWN ON SUPERELEVATION DIAGRAM.
3. ALL CP/HP TO BE SLOPE ROUNDED, SEE CALTRANS S+D PLANS 2022.
4. FOR PATH BUFFER MATERIAL, SEE LANDSCAPING PLANS
5. OVEREXCAVATION APPLIES IN AREAS OF FILL PLACEMENT.



REVISION 01/12/2023

MARK	REVISIONS	APPR	DATE

Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK

S.B.CO BRASS DISK STAMPED 63-1-12
1975 ON TOP OF CURB, +/- 28"
SOUTHERLY FROM HWY 38 & 0.15 MILES
EASTERLY FROM INTERSECTION HWY 38 &
STANFIELD CUTOFF AS SHOWN PER SPSN
00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

06/12/24 DATE

MATTHEW ATKINSON, PROJECT MANAGER

MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* 6/26/24 DATE

TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: *Thomas Bustamonte* 6/26/24 DATE

SUPERVISING ENGINEER

DESIGNED BY: RS DATE

DRAWN BY: JP DATE

CHECKED BY: LK DATE

APPROVED BY: *Mervin Mikhail* 6/26/2024 DATE

DEPUTY DIRECTOR

TYPICAL SECTIONS
NO SCALE

STATE HIGHWAY 38
STANFIELD CUTOFF
ROUNDBOUT

BIG BEAR AREA

ROAD NO. W.O. NO. H15055

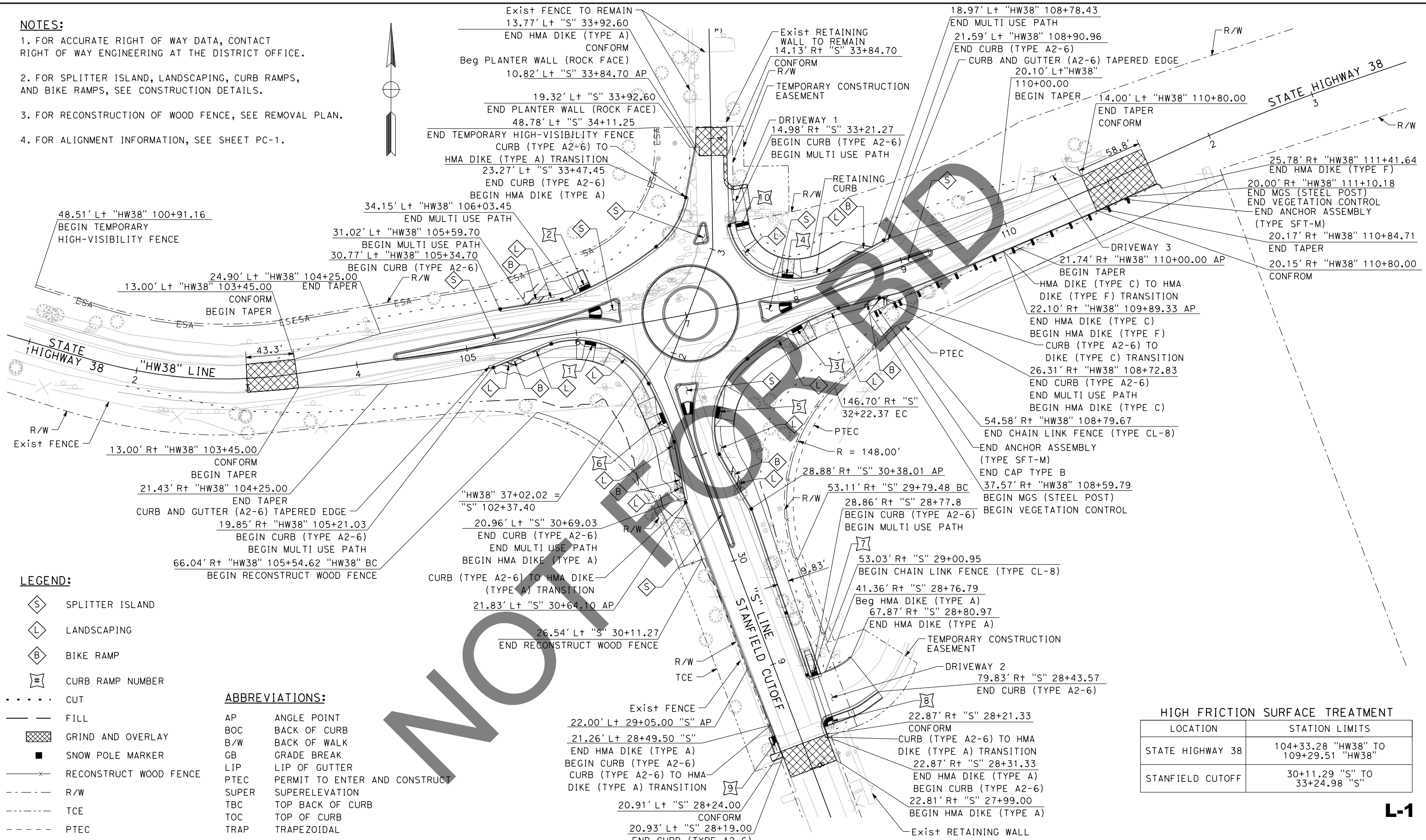
SHEET 3 OF 72

X-2

DATE PLOTTED => 6/21/2024
TIME PLOTTED => 2:57:49 PM
USER NAME => dnucl1
DGN FILE => 2553cd002.dgn

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR SPLITTER ISLAND, LANDSCAPING, CURB RAMPS, AND BIKE RAMPS, SEE CONSTRUCTION DETAILS.
3. FOR RECONSTRUCTION OF WOOD FENCE, SEE REMOVAL PLAN.
4. FOR ALIGNMENT INFORMATION, SEE SHEET PC-1.



LEGEND:

- SPLITTER ISLAND
- LANDSCAPING
- BIKE RAMP
- CURB RAMP NUMBER
- CUT
- FILL
- GRIND AND OVERLAY
- SNOW POLE MARKER
- RECONSTRUCT WOOD FENCE
- R/W
- TCE
- PTEC

ABBREVIATIONS:

- AP ANGLE POINT
- BOC BACK OF CURB
- B/W BACK OF WALK
- GB GRADE BREAK
- LIP LIP OF GUTTER
- PTEC PERMIT TO ENTER AND CONSTRUCT
- SUPER SUPERELEVATION
- TBC TOP BACK OF CURB
- TOC TOP OF CURB
- TRAP TRAPEZOIDAL

HIGH FRICTION SURFACE TREATMENT

LOCATION	STATION LIMITS
STATE HIGHWAY 38	104+33.28 "HW38" TO 109+29.51 "HW38"
STANFIELD CUTOFF	30+11.29 "S" TO 33+24.98 "S"

L-1

REVISION 01/12/2023

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Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
S.B.CO BRASS DISK STAMPED 63-1-12
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00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

MATTHEW ATKINSON, PROJECT MANAGER

06/12/24 DATE

MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* 6/26/24 DATE
RS JP

DRAWN BY: *JP* DATE
JP LK

CHECKED BY: *LK* DATE
LK

APPROVED BY: *Thomas Bustamonte* 6/26/24 DATE
THOMAS BUSTAMONTE, P.E.
SUPERVISING ENGINEER

APPROVED BY: *Mervat Mikhail* 6/26/24 DATE
MERVAT MIKHAIL, P.E.
DEPUTY DIRECTOR

LAYOUT
SCALE: 1"=40'

STATE HIGHWAY 38
STANFIELD CUTOFF
ROUNDBOUT

BIG BEAR AREA

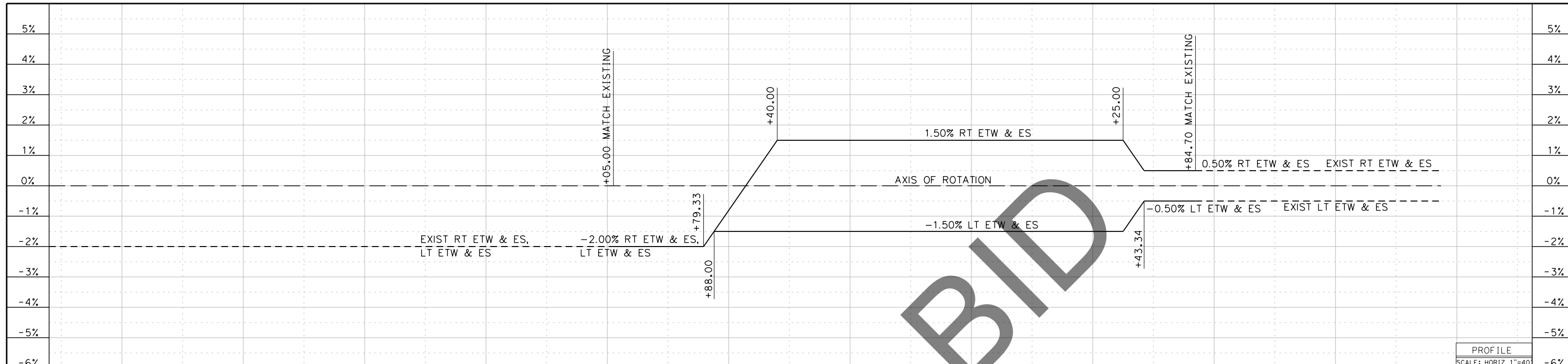
ROAD NO. _____

W.O. NO. H15055

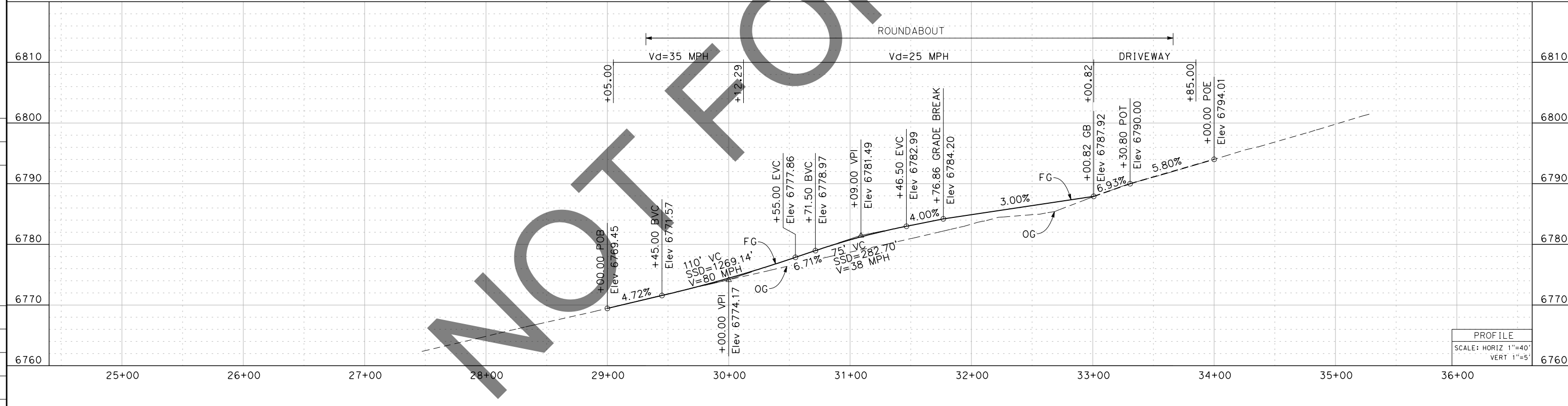
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REVISION 01/12/2023



MARK	REVISIONS	APPR.	DATE



MARK	REVISIONS	APPR.	DATE

Underground Service Alert+

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PREPARED BY:

 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
 MATTHEW ATKINSON, PROJECT MANAGER
 06/12/24 DATE

MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* 6/26/24 DATE
 TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: *Thomas Bustamonte* 6/26/24 DATE
 SUPERVISING ENGINEER

CHECKED BY: *JP* LK
 DEPUTY DIRECTOR

PROFILE & SUPERELEVATION
 SCALE: 1"=40'

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

BIG BEAR AREA

ROAD NO.
 W.O. NO.
 H15055

SHEET 7 OF 72

PS-2

- NOTES:**
- FOR FLOWLINE ELEVATIONS, OTHER THAN SPLITTER ISLANDS, SEE SHEETS C5-C8
 - FOR CURB RAMP AND BIKE RAMP DETAILS, SEE SHEETS C9-C12
 - FOR CURB TAPERED EDGE, SEE SHEET C-14

SH38

No.	LOCATION	ELEVATION
32	36.76' Lt "HW38" 105+83.09	6784.64
33	37.36' Lt "HW38" 105+93.11	6785.14
34	39.06' Lt "HW38" 106+00.42	6785.42
36	41.62' Lt "HW38" 105+72.06	6784.19
37	48.73' Lt "HW38" 105+80.37	6784.70
38	48.83' Lt "HW38" 105+89.34	6785.16
39	50.43' Lt "HW38" 105+96.41	6785.55

CURVE DATA

No.	R	Δ	T	L
1	2.50'	174°4'30"	48.31'	7.60'
2	451.00'	8°34'52"	33.84	67.55
3	451.00'	1°55'36"	7.58'	15.17'
4	3.00'	114°29'24"	4.66'	6.00'
5	599.00'	14°08'47"	74.33'	147.89'
6	93.00'	18°25'46"	15.09'	29.91'
7	93.00'	10°09'42"	8.27'	16.49'
8	1.50'	117°45'24"	2.48'	3.08'
9	64.00'	13°54'25"	7.81'	15.53'

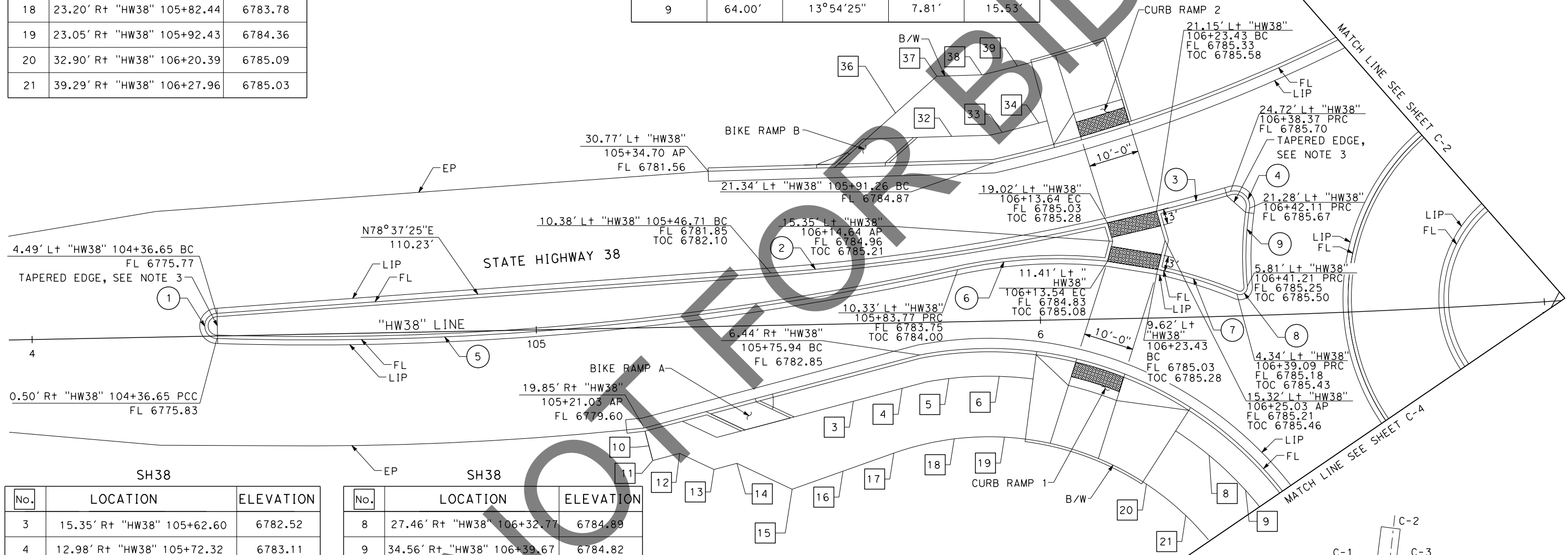
LEGEND:

DETECTABLE WARNING SURFACE



SH38

No.	LOCATION	ELEVATION
15	32.57' Rt "HW38" 105+50.11	6781.78
16	29.19' Rt "HW38" 105+60.26	6782.38
17	25.80' Rt "HW38" 105+70.41	6783.00
18	23.20' Rt "HW38" 105+82.44	6783.78
19	23.05' Rt "HW38" 105+92.43	6784.36
20	32.90' Rt "HW38" 106+20.39	6785.09
21	39.29' Rt "HW38" 106+27.96	6785.03

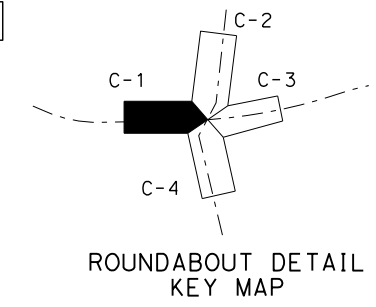


SH38

No.	LOCATION	ELEVATION
3	15.35' Rt "HW38" 105+62.60	6782.52
4	12.98' Rt "HW38" 105+72.32	6783.11
5	11.22' Rt "HW38" 105+81.62	6783.65
6	10.98' Rt "HW38" 105+91.61	6784.13

SH38

No.	LOCATION	ELEVATION
8	27.46' Rt "HW38" 106+32.77	6784.89
9	34.56' Rt "HW38" 106+39.67	6784.82
10	23.42' Rt "HW38" 105+21.90	6779.94
11	26.33' Rt "HW38" 105+22.61	6779.83
12	25.03' Rt "HW38" 105+27.95	6780.34
13	28.35' Rt "HW38" 105+34.69	6780.71
14	27.23' Rt "HW38" 105+39.29	6781.12



C-1

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

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DGN FILE => 25539d001.dgn

Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

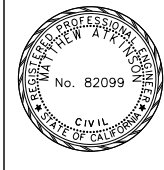
BENCHMARK
S.B.CO BRASS DISK STAMPED 63-1-12
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STANFIELD CUTOFF AS SHOWN PER SPSN
00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

06/12/24
DATE

MATTHEW ATKINSON, PROJECT MANAGER



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* 6/26/24
DATE

TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: *Thomas Bustamonte* 6/26/24
DATE

SUPERVISING ENGINEER

DRAWN BY: *JP*
CHECKED BY: *LK*

APPROVED BY: *Mervat Mikhail* 6/26/2024
DATE

DEPUTY DIRECTOR

CONSTRUCTION DETAILS

SCALE: 1"=10'

STATE HIGHWAY 38
STANFIELD CUTOFF
ROUNDBOUT

BIG BEAR AREA

ROAD NO. H15055

W.O. NO. H15055

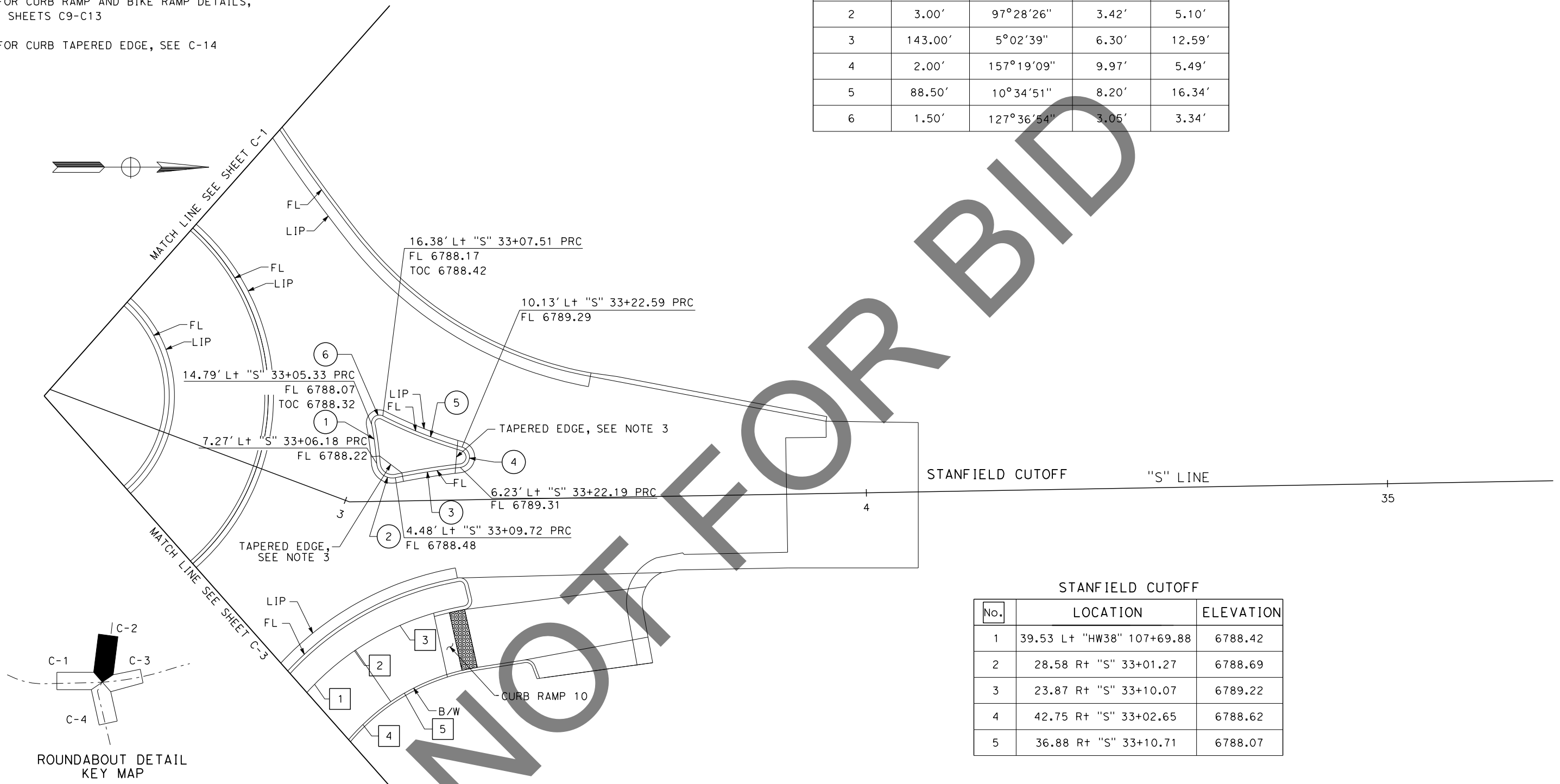
SHEET 9 OF 72

NOTES:

1. FOR FLOWLINE ELEVATIONS, OTHER THAN SPLITTER ISLANDS, SEE SHEETS C5-C8
2. FOR CURB RAMP AND BIKE RAMP DETAILS, SEE SHEETS C9-C13
3. FOR CURB TAPERED EDGE, SEE C-14

CURVE DATA

No.	R	Δ	T	L
1	64.00'	6°46'57"	3.79'	7.58'
2	3.00'	97°28'26"	3.42'	5.10'
3	143.00'	5°02'39"	6.30'	12.59'
4	2.00'	157°19'09"	9.97'	5.49'
5	88.50'	10°34'51"	8.20'	16.34'
6	1.50'	127°36'54"	3.05'	3.34'



STANFIELD CUTOFF "S" LINE

STANFIELD CUTOFF

No.	LOCATION	ELEVATION
1	39.53 Lt "HW38" 107+69.88	6788.42
2	28.58 Rt "S" 33+01.27	6788.69
3	23.87 Rt "S" 33+10.07	6789.22
4	42.75 Rt "S" 33+02.65	6788.62
5	36.88 Rt "S" 33+10.71	6788.07

C-2

DATE PLOTTED => 6/21/2024
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 DGN FILE => 25539d002.dgn

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

Underground Service Alert+

Call: 811
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PREPARED BY:

DOKKEN ENGINEERING
 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
 MATTHEW ATKINSON, PROJECT MANAGER
 06/12/24 DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: Chris Nguyen 6/26/24 DATE
 TRANSPORTATION DESIGN ENGINEERING MANAGER
 CHECKED BY: JP LK
 APPROVED BY: Thomas Bustamonte 6/26/24 DATE
 SUPERVISING ENGINEER
 DEPUTY DIRECTOR

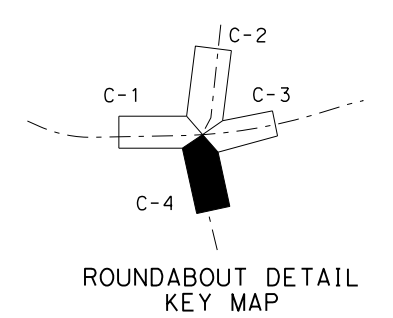
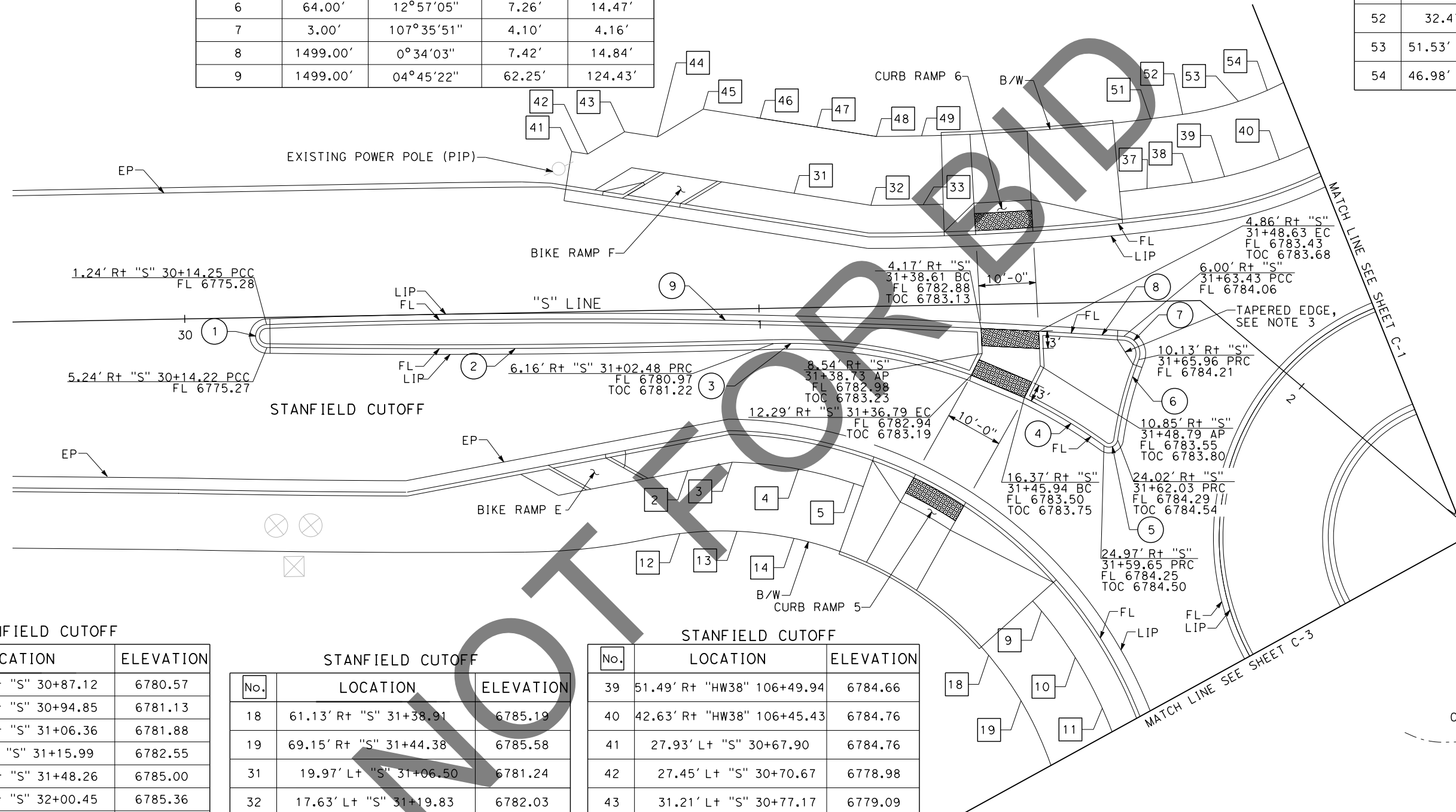
CONSTRUCTION DETAILS
 SCALE: 1"=10'
 STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT
 BIG BEAR AREA

ROAD NO.	
W.O. NO.	H15055
SHEET	10 OF 72

- NOTES:**
- FOR FLOWLINE ELEVATIONS, OTHER THAN SPLITTER ISLANDS, SEE SHEETS C5-C8
 - FOR CURB RAMP AND BIKE RAMP DETAILS, SEE SHEETS C9-C13
 - FOR CURB TAPERED EDGE, SEE SHEET C-13

CURVE DATA				
No.	R	Δ	T	L
1	2.00'	177°6'36"	79.29'	6.18'
2	1999.00'	2°31'48"	44.14'	88.27'
3	93.00'	21°35'56"	17.74'	35.06'
4	93.00'	09°59'04"	8.12'	16.21'
5	1.50'	117°45'52"	2.49'	3.08'
6	64.00'	12°57'05"	7.26'	14.47'
7	3.00'	107°35'51"	4.10'	4.16'
8	1499.00'	0°34'03"	7.42'	14.84'
9	1499.00'	04°45'22"	62.25'	124.43'

STANFIELD CUTOFF		
No.	LOCATION	ELEVATION
47	31.42' Lt "S" 31+10.64	6781.54
48	29.61' Lt "S" 31+20.98	6782.26
49	29.56' Lt "S" 31+28.87	6782.69
51	31.81' Lt "S" 31+68.78	6784.59
52	32.47' Lt "S" 31+74.39	6784.73
53	51.53' Rt "HW38" 106+36.98	6784.91
54	46.98' Rt "HW38" 106+34.23	6784.95



ROUNDABOUT DETAIL KEY MAP

C-4

STANFIELD CUTOFF		
No.	LOCATION	ELEVATION
2	28.02' Rt "S" 30+87.12	6780.57
3	26.69' Rt "S" 30+94.85	6781.13
4	28.10' Rt "S" 31+06.36	6781.88
5	30.77' Rt "S" 31+15.99	6782.55
9	53.60' Rt "S" 31+48.26	6785.00
10	61.53' Rt "S" 32+00.45	6785.36
11	65.22' Rt "S" 32+09.74	6785.62
12	38.96' Rt "S" 30+85.51	6780.51
13	38.74' Rt "S" 30+95.49	6781.40
14	40.16' Rt "S" 31+05.38	6782.18

STANFIELD CUTOFF		
No.	LOCATION	ELEVATION
18	61.13' Rt "S" 31+38.91	6785.19
19	69.15' Rt "S" 31+44.38	6785.58
31	19.97' Lt "S" 31+06.50	6781.24
32	17.63' Lt "S" 31+19.83	6782.03
33	17.56' Lt "S" 31+28.92	6782.51
37	19.65' Lt "S" 31+67.95	6784.35
38	20.56' Lt "S" 31+75.87	6784.56

STANFIELD CUTOFF		
No.	LOCATION	ELEVATION
39	51.49' Rt "HW38" 106+49.94	6784.66
40	42.63' Rt "HW38" 106+45.43	6784.76
41	27.93' Lt "S" 30+67.90	6784.76
42	27.45' Lt "S" 30+70.67	6778.98
43	31.21' Lt "S" 30+77.17	6779.09
44	30.21' Lt "S" 30+82.87	6779.95
45	34.88' Lt "S" 30+90.95	6780.35
46	33.15' Lt "S" 31+00.79	6780.96

REVISION 01/12/2023
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:57:58 PM
 USERNAME => dnucl
 DGN FILE => 25539d004.dgn

Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB, +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SP5N
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

06/12/24
 MATTHEW ATKINSON, PROJECT MANAGER



MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* DATE: 6/26/24
 TRANSPORTATION DESIGN ENGINEERING MANAGER

DRAWN BY: *JP* DATE: 6/26/24
 CHECKED BY: *LK* DATE: 6/26/2024

APPROVED BY: *Thomas Bustamonte* DATE: 6/26/24
 SUPERVISING ENGINEER

APPROVED BY: *Mervat Mikhail* DATE: 6/26/2024
 DEPUTY DIRECTOR

CONSTRUCTION DETAILS

SCALE: 1"=10'

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

BIG BEAR AREA

ROAD NO. _____
 W.O. NO. H15055
 SHEET 12 OF 72

NOTES:

1. LIP ELEVATION IS PERPENDICULAR TO FL ELEVATION, SEE DETAIL A.

SH38

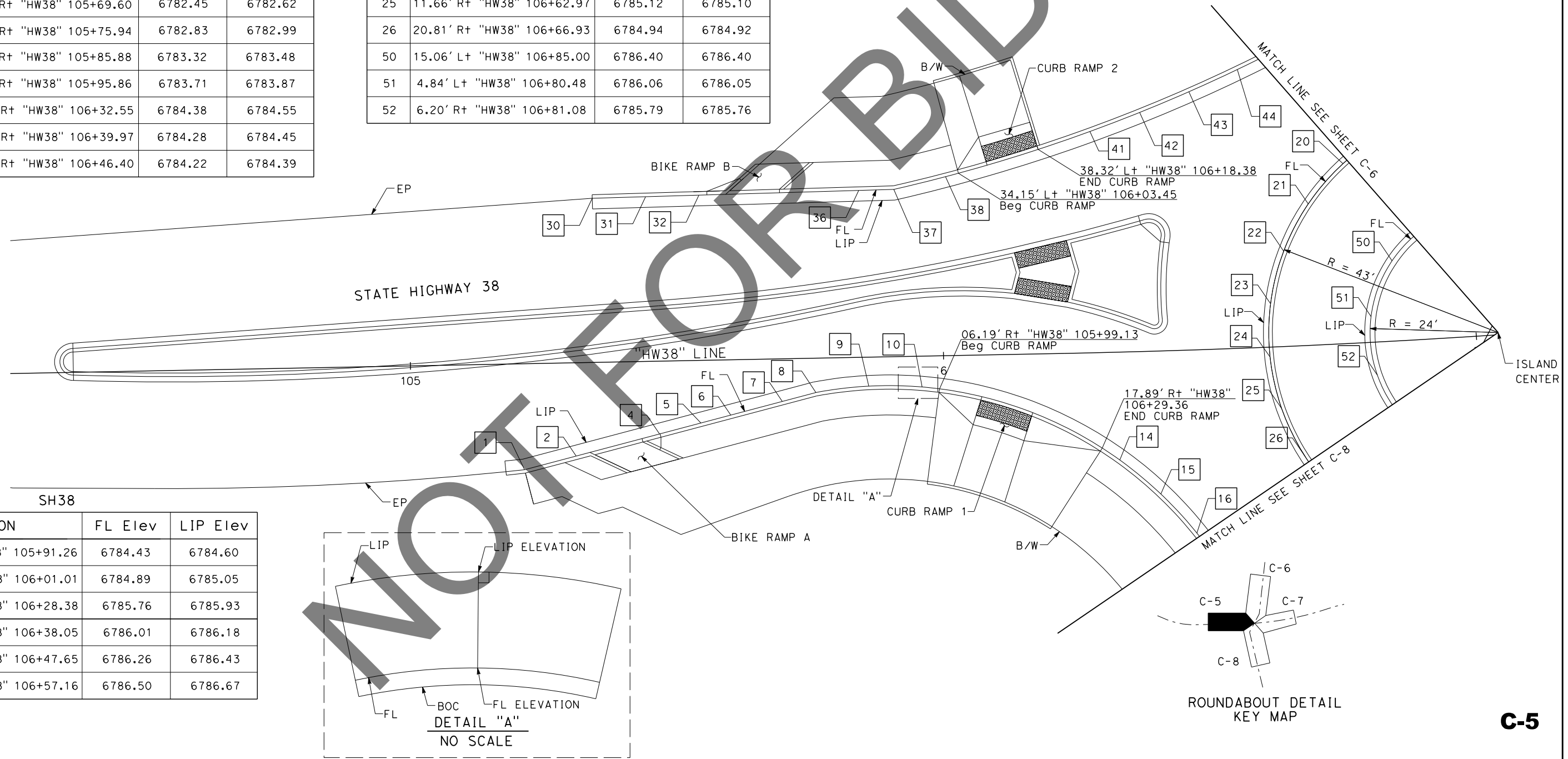
No.	LOCATION	FL Elev	LIP Elev
1	19.85' Rt "HW38" 105+21.03	6779.60	6779.76
2	17.48' Rt "HW38" 105+30.74	6780.11	6780.16
4	13.64' Rt "HW38" 105+46.46	6781.06	6781.23
5	11.74' Rt "HW38" 105+54.23	6781.52	6781.69
6	10.36' Rt "HW38" 105+59.88	6781.86	6783.03
7	7.98' Rt "HW38" 105+69.60	6782.45	6782.62
8	6.43' Rt "HW38" 105+75.94	6782.83	6782.99
9	5.44' Rt "HW38" 105+85.88	6783.32	6783.48
10	5.79' Rt "HW38" 105+95.86	6783.71	6783.87
14	20.21' Rt "HW38" 106+32.55	6784.38	6784.55
15	26.79' Rt "HW38" 106+39.97	6784.28	6784.45
16	34.34' Rt "HW38" 106+46.40	6784.22	6784.39

SH38

No.	LOCATION	FL Elev	LIP Elev
20	33.73' Lt "HW38" 106+76.64	6786.51	6786.52
21	26.50' Lt "HW38" 106+69.65	6786.22	6786.22
22	17.86' Lt "HW38" 106+64.59	6785.91	6785.91
23	8.12' Lt "HW38" 106+61.70	6785.62	6785.61
24	1.85' Rt "HW38" 106+61.18	6785.35	6785.33
25	11.66' Rt "HW38" 106+62.97	6785.12	6785.10
26	20.81' Rt "HW38" 106+66.93	6784.94	6784.92
50	15.06' Lt "HW38" 106+85.00	6786.40	6786.40
51	4.84' Lt "HW38" 106+80.48	6786.06	6786.05
52	6.20' Rt "HW38" 106+81.08	6785.79	6785.76

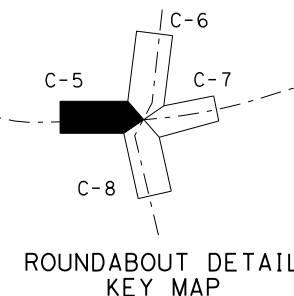
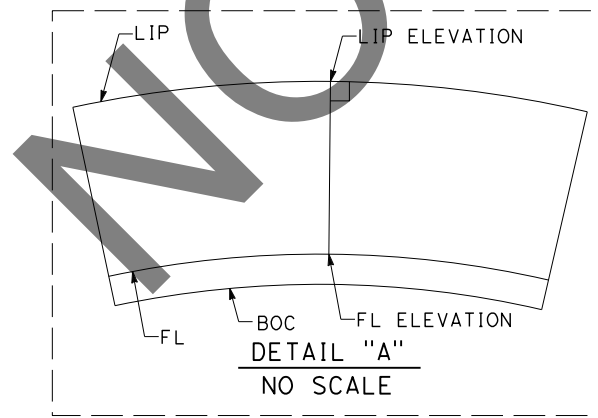
SH38

No.	LOCATION	FL Elev	LIP Elev
30	30.77' Lt "HW38" 105+34.70	6781.56	6781.73
31	30.87' Lt "HW38" 105+44.70	6782.10	6782.27
32	30.97' Lt "HW38" 105+54.69	6782.65	6782.72
36	31.28' Lt "HW38" 105+84.69	6784.14	6784.31



SH38

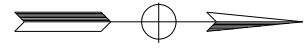
No.	LOCATION	FL Elev	LIP Elev
37	31.34' Lt "HW38" 105+91.26	6784.43	6784.60
38	33.54' Lt "HW38" 106+01.01	6784.89	6785.05
41	41.49' Lt "HW38" 106+28.38	6785.76	6785.93
42	44.82' Lt "HW38" 106+38.05	6786.01	6786.18
43	48.41' Lt "HW38" 106+47.65	6786.26	6786.43
44	52.25' Lt "HW38" 106+57.16	6786.50	6786.67



C-5

REVISION 01/12/2023
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:57:59 PM
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 DGN FILE => 25530005.dgn

<p>Underground Service Alert</p> <p>Call: 811</p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>	<p>BENCHMARK</p> <p>S.B.CO BRASS DISK STAMPED 63-1-12 1975 ON TOP OF CURB. +/- 28" SOUTHERLY FROM HWY 38 & 0.15 MILES EASTERLY FROM INTERSECTION HWY 38 & STANFIELD CUTOFF AS SHOWN PER SP5N 00271. NGVD-29 ELEVATION = 6789.402</p>	<p>PREPARED BY:</p> <p>DE DOKKEN ENGINEERING</p> <p>110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642</p> <p>06/12/24 MATTHEW ATKINSON, PROJECT MANAGER</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MARK</th> <th>REVISIONS</th> <th>APPR</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	MARK	REVISIONS	APPR	DATE																	<p style="text-align: center;">SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>DESIGNED BY: <i>Chris Nguyen</i> 6/26/24 DATE: 6/26/24 TRANSPORTATION DESIGN ENGINEERING MANAGER</p> <p>THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER</p> <p>DRAWN BY: <i>JP</i> DATE: 6/26/24</p> <p>CHECKED BY: <i>LK</i> DATE: 6/26/2024</p> <p>APPROVED BY: <i>Mervat Mikhail</i> DATE: 6/26/2024 DEPUTY DIRECTOR</p>	<p>CONSTRUCTION DETAILS</p> <p>SCALE: 1"=10'</p> <p>STATE HIGHWAY 38 STANFIELD CUTOFF ROUNDABOUT</p> <p>BIG BEAR AREA</p>	<p>ROAD NO.</p> <p>W.O. NO. H15055</p> <p>SHEET 13 OF 72</p>
MARK	REVISIONS	APPR	DATE																								

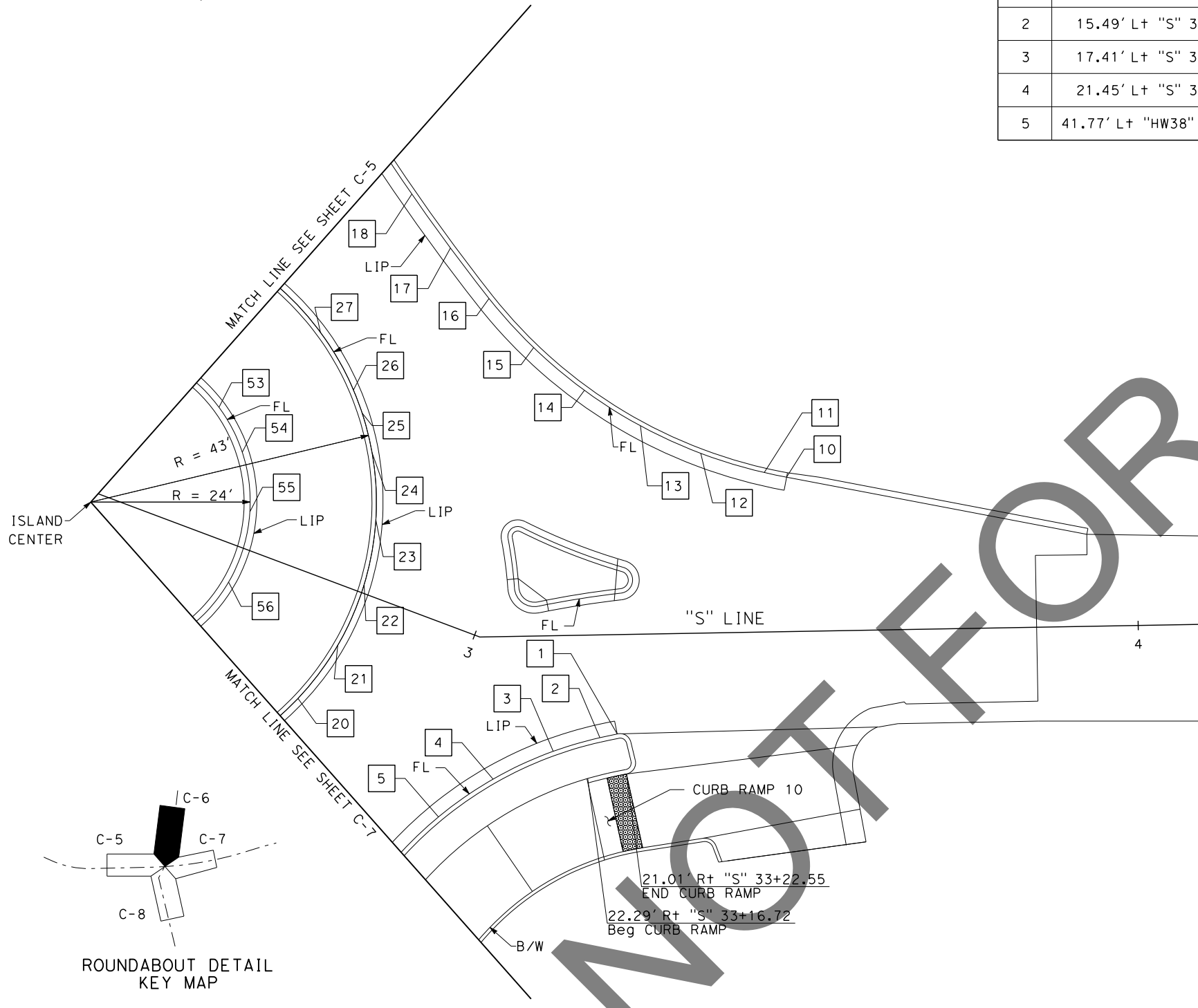


STANFIELD CUTOFF

No.	LOCATION	FL Elev	LIP Elev
1	14.98' Lt "S" 33+21.27	6789.60	6789.57
2	15.49' Lt "S" 33+18.64	6789.40	6789.37
3	17.41' Lt "S" 33+11.58	6788.89	6788.86
4	21.45' Lt "S" 33+02.44	6788.33	6788.30
5	41.77' Lt "HW38" 107+62.11	6787.97	6787.94

STANFIELD CUTOFF

No.	LOCATION	FL Elev	LIP Elev
10	23.27' Lt "S" 33+47.45	6790.72	6790.89
11	24.02' Lt "S" 33+44.10	6790.49	6790.66
12	27.08' Lt "S" 33+34.59	6789.74	6789.91
13	31.40' Lt "S" 33+25.58	6788.99	6789.16
14	36.89' Lt "S" 33+17.23	6788.29	6788.46
15	43.46' Lt "S" 33+09.70	6787.72	6787.89
16	48.24' Lt "S" 32+84.20	6787.28	6787.45
17	53.31' Lt "S" 32+76.08	6786.98	6787.15
18	58.88' Lt "S" 32+67.77	6786.74	6786.91



STANFIELD CUTOFF

STANFIELD CUTOFF

No.	LOCATION	FL Elev	LIP Elev
20	25.01' Lt "HW38" 107+39.65	6787.23	6787.25
21	32.54' Lt "HW38" 107+32.97	6787.32	6787.35
22	38.31' Lt "HW38" 107+24.66	6787.35	6787.38
23	42.01' Lt "HW38" 107+15.16	6787.30	6787.33
24	43.41' Lt "HW38" 107+05.02	6787.19	6787.21
25	43.08' Lt "HW38" 106+98.63	6787.08	6787.11
26	42.44' Lt "HW38" 106+94.86	6787.01	6787.03
27	39.13' Lt "HW38" 106+85.18	6786.78	6786.79
53	18.59' Lt "S" 32+51.88	6786.71	6786.73
54	13.46' Lt "S" 32+57.56	6786.88	6786.90
55	5.50' Lt "S" 32+61.78	6787.00	6787.03
56	5.54' Rt "S" 32+62.51	6787.01	6787.04

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

DATE PLOTTED => 6/21/2024
TIME PLOTTED => 2:58:00 PM
USERNAME => dnucl
DGN FILE => 25539d06.dgn

Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
S.B.CO BRASS DISK STAMPED 63-1-12
1975 ON TOP OF CURB. +/- 28"
SOUTHERLY FROM HWY 38 & 0.15 MILES
EASTERLY FROM INTERSECTION HWY 38 &
STANFIELD CUTOFF AS SHOWN PER SPSN
00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642

MATTHEW ATKINSON, PROJECT MANAGER

06/12/24 DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: Chris Nguyen 6/26/24 DATE
TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: Thomas Bustamonte 6/26/24 DATE
SUPERVISING ENGINEER

DRAWN BY: JP
CHECKED BY: LK

APPROVED BY: Mervat Mikhail 6/26/2024 DATE
DEPUTY DIRECTOR

CONSTRUCTION DETAILS

SCALE: 1"=10'

STATE HIGHWAY 38
STANFIELD CUTOFF
ROUNDABOUT

BIG BEAR AREA

ROAD NO. _____

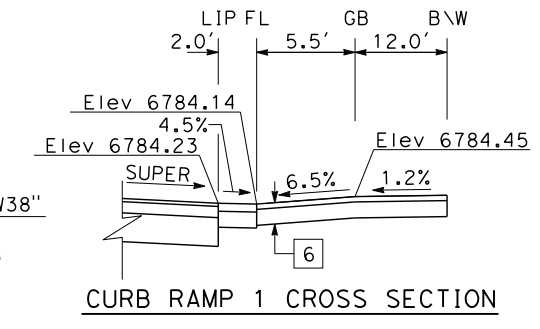
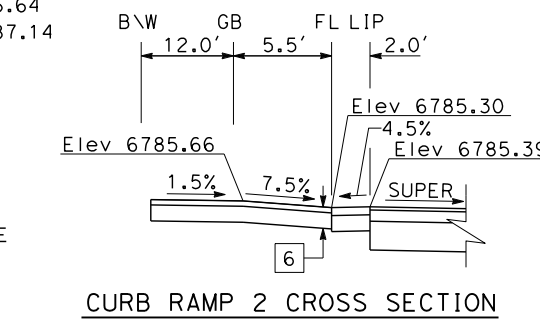
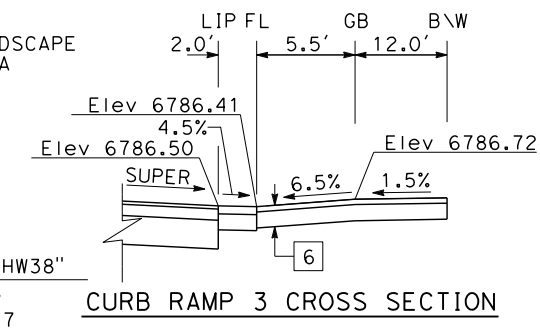
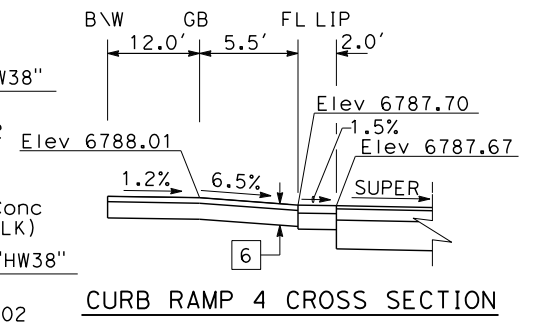
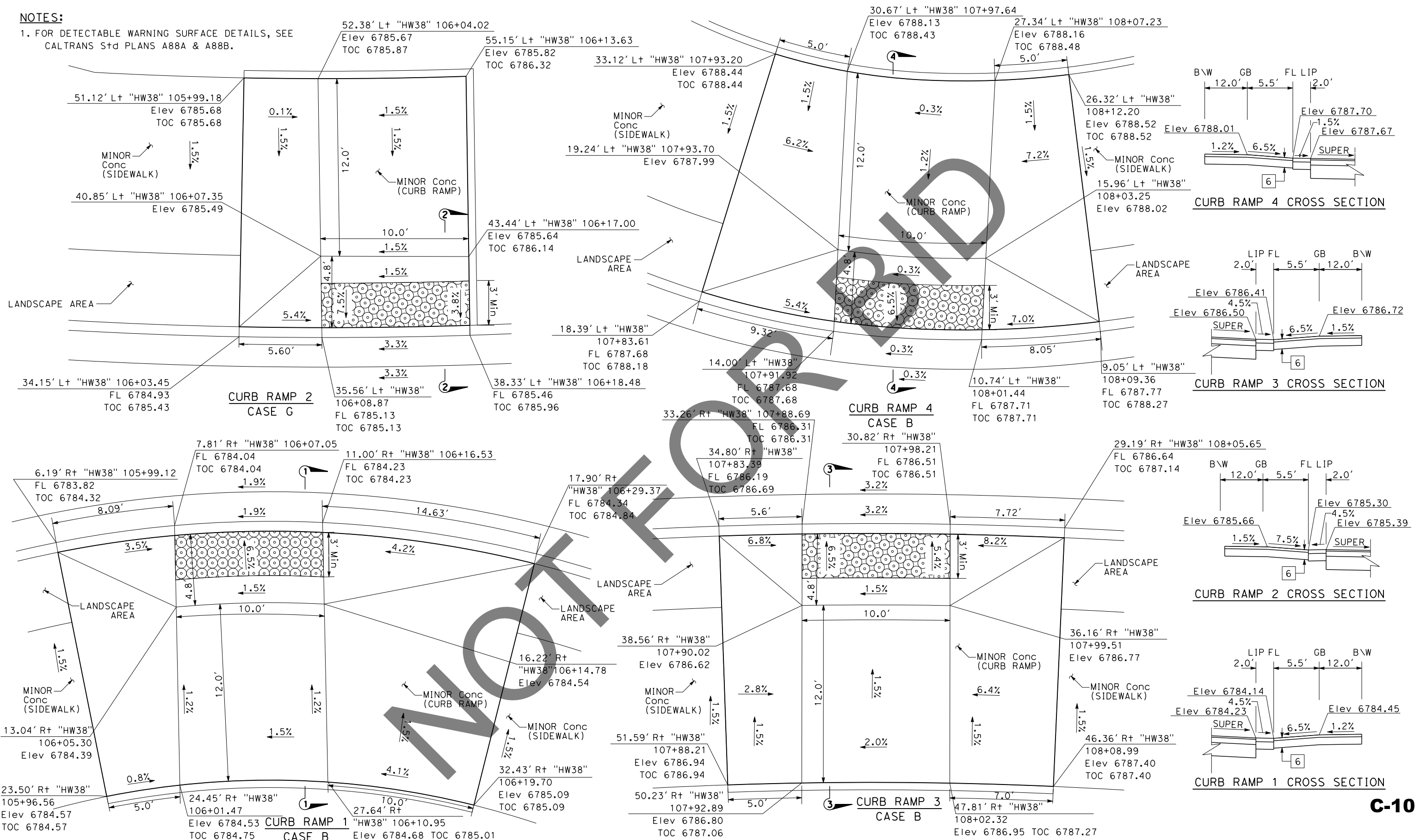
W.O. NO. H15055

SHEET 14 OF 72

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NOTES:

1. FOR DETECTABLE WARNING SURFACE DETAILS, SEE CALTRANS S+D PLANS A88A & A88B.



C-10

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB. +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
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 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

6/12/24 DATE

MATTHEW ATKINSON, PROJECT MANAGER

MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

CHRIS NGUYEN, P.E. 6/26/24 DATE
 TRANSPORTATION DESIGN ENGINEERING MANAGER

THOMAS BUSTAMONTE, P.E. 6/26/24 DATE
 SUPERVISING ENGINEER

DESIGNED BY: RS
 DRAWN BY: JP
 CHECKED BY: LK

APPROVED BY: Mervat Mikhail, P.E. 6/26/2024 DATE
 DEPUTY DIRECTOR

CONSTRUCTION DETAILS
 SCALE: 1"=3'

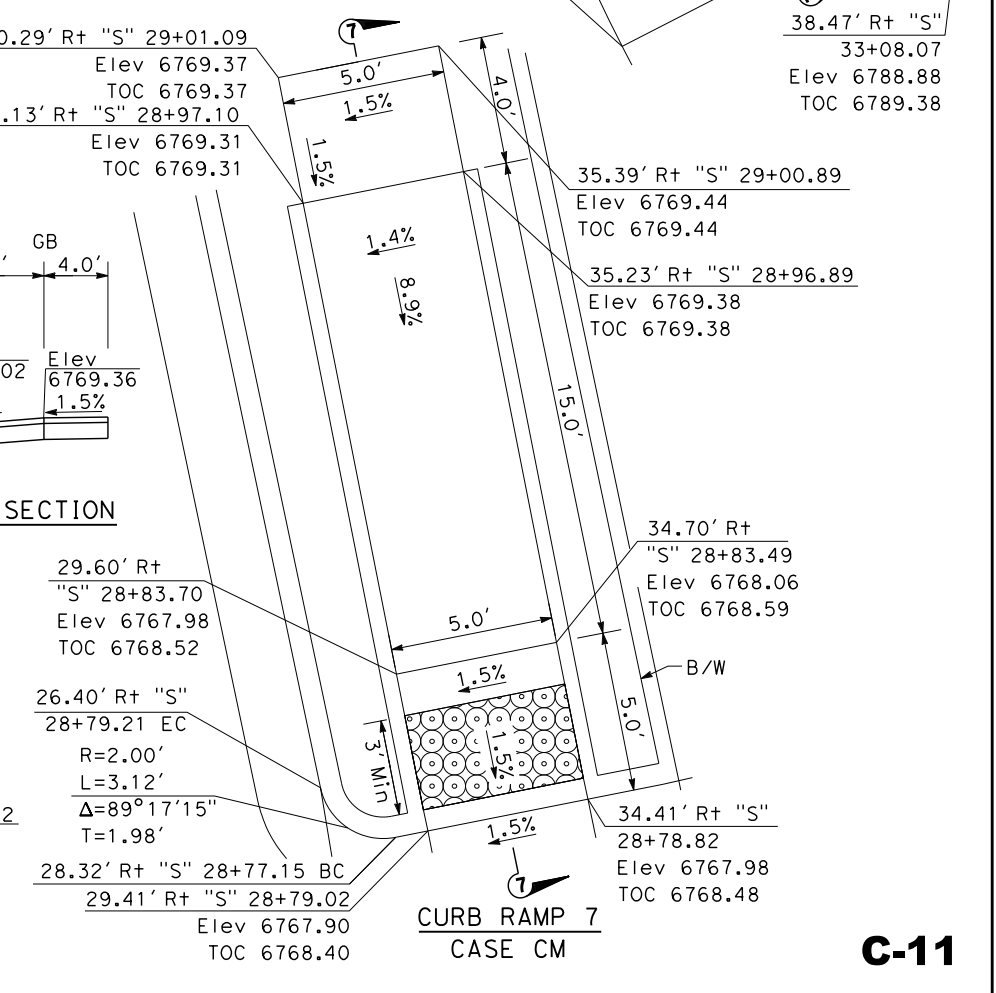
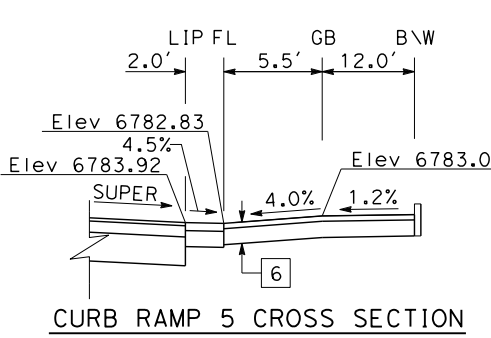
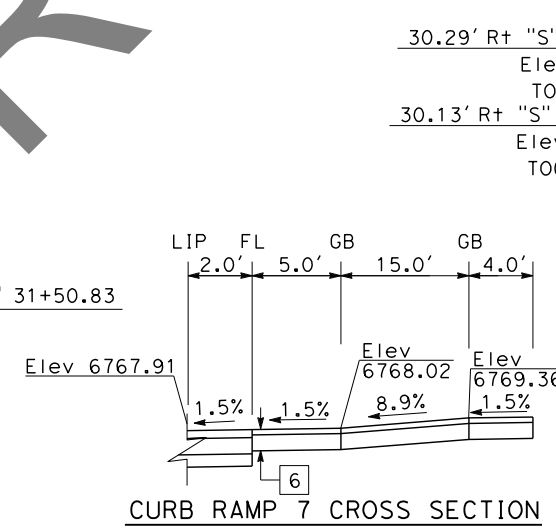
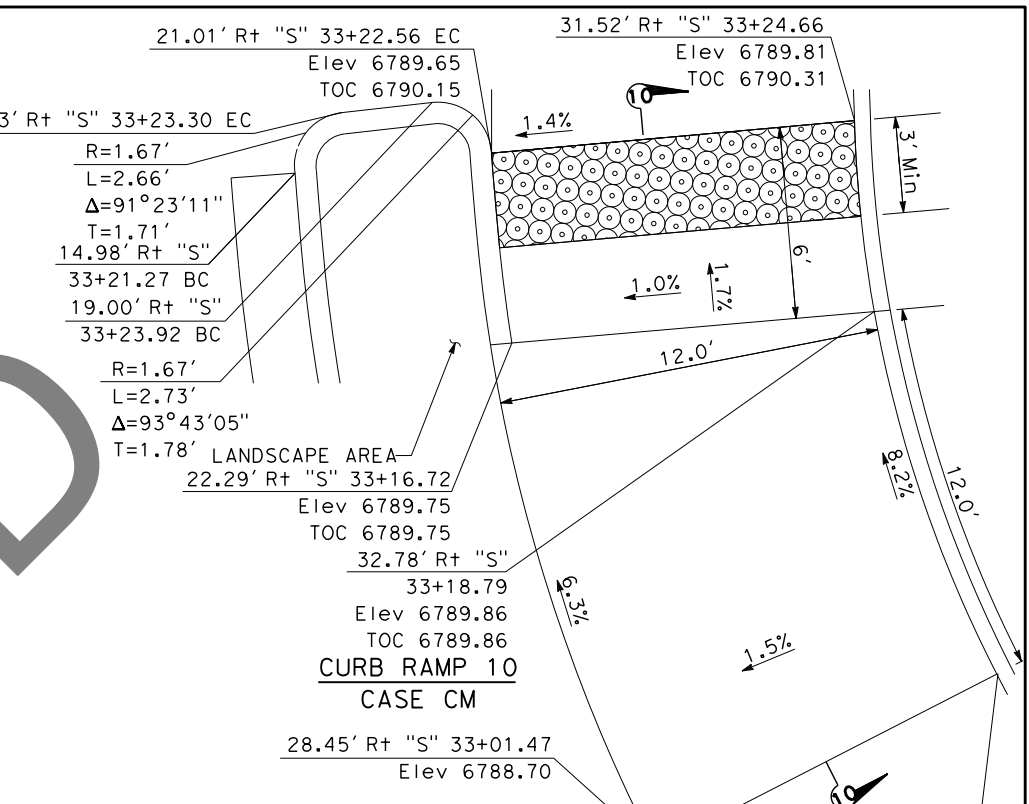
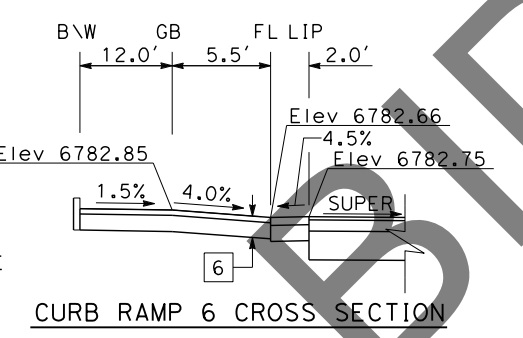
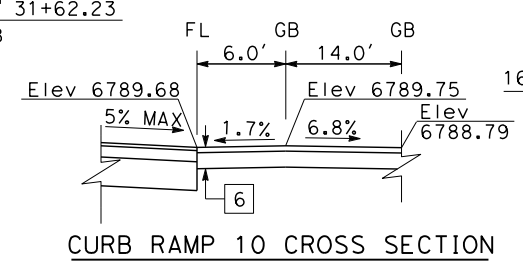
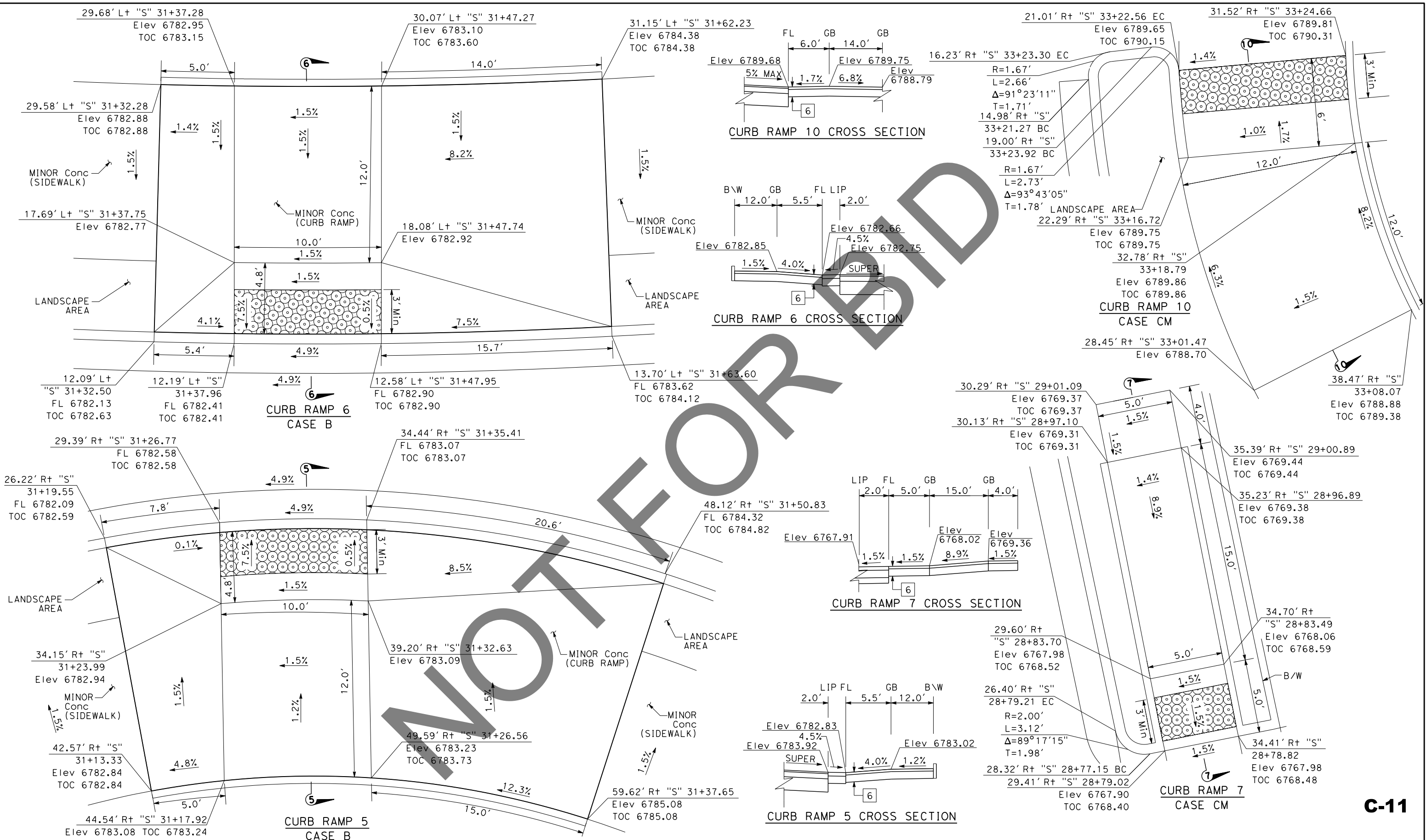
ROAD NO. STATE HIGHWAY 38
 W.O. NO. H15055
 SHEET 18 OF 72

BIG BEAR AREA

DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:04 PM
 USERNAME => dnucl1
 DGN FILE => 25539d011.dgn

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE



C-11

Underground Service Alert+

 Call: 811
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB. +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SP5N
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

DOKKEN ENGINEERING
 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
 MATTHEW ATKINSON, PROJECT MANAGER
 06/12/24 DATE

CIVIL
 MATTHEW ATKINSON, P.E.

MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* 6/26/24 DATE
 RS
 DRAWN BY: *Thomas Bustamonte* 6/26/24 DATE
 JP
 CHECKED BY: *Mervat Mikhail* 6/26/2024 DATE
 LK
 APPROVED BY: *Thomas Bustamonte* 6/26/2024 DATE
 THOMAS BUSTAMONTE, P.E., SUPERVISING ENGINEER
 MERVAT MIKHAIL, P.E., DEPUTY DIRECTOR

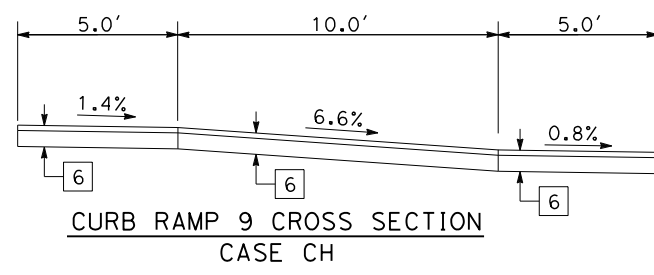
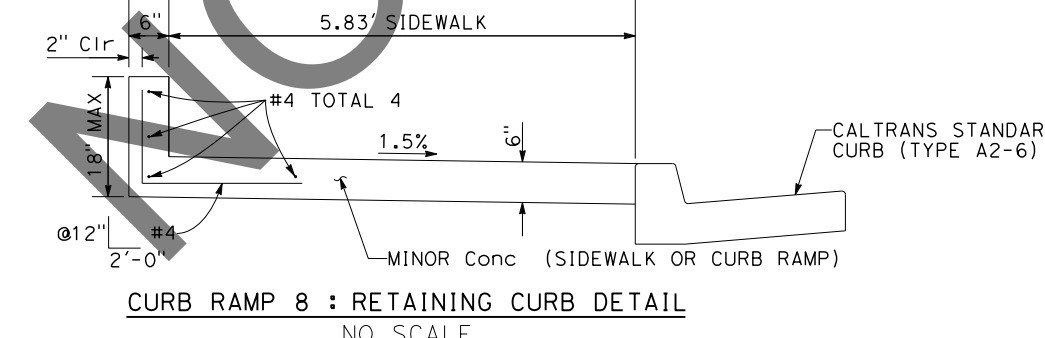
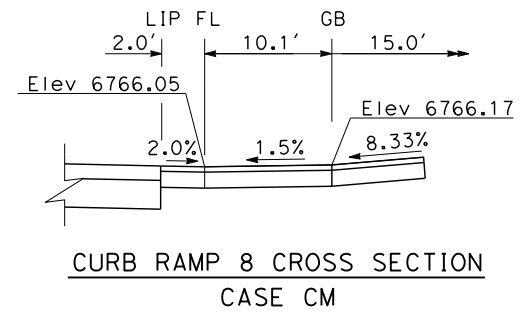
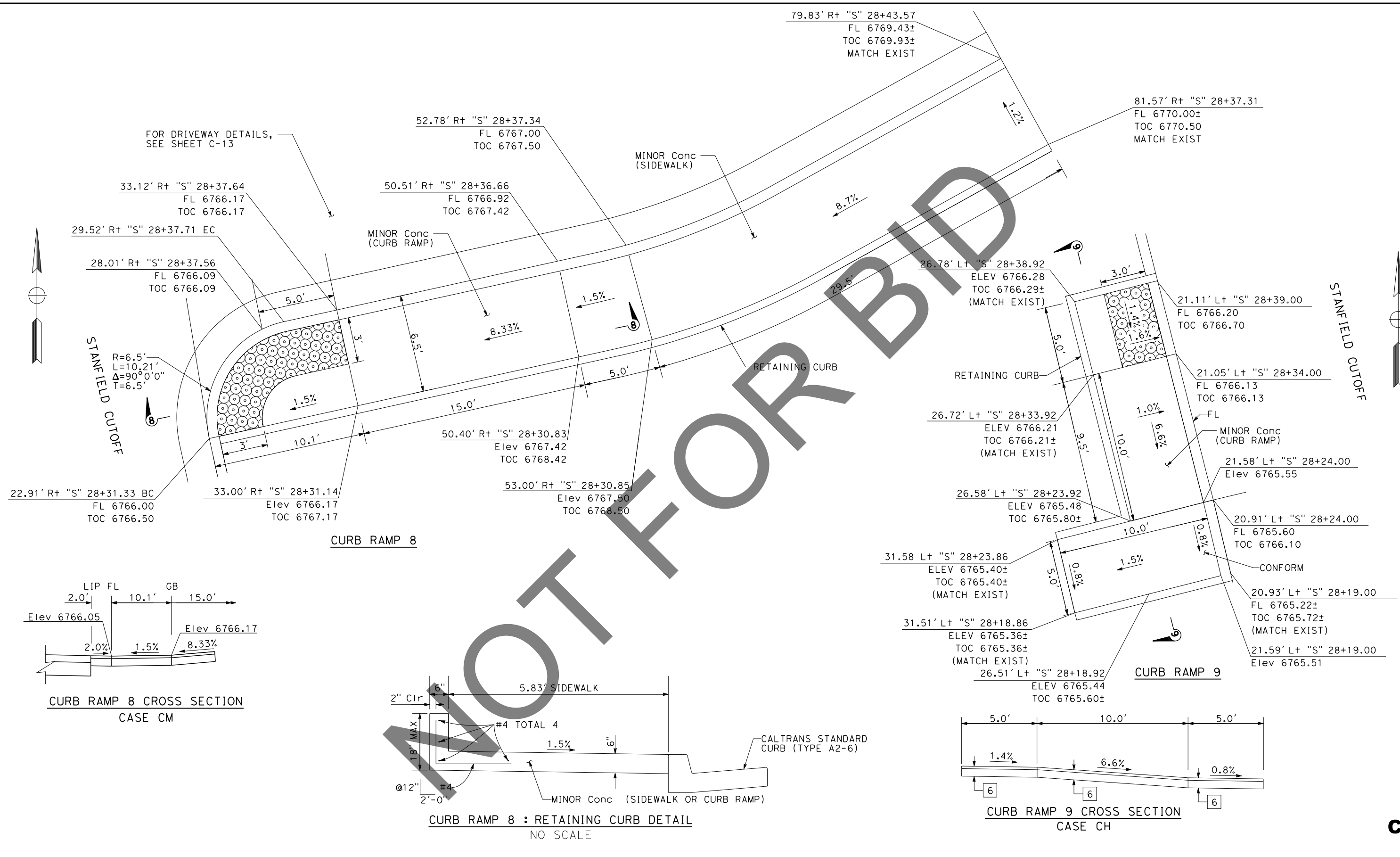
CONSTRUCTION DETAILS
 SCALE: 1"=3'
 STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT
 BIG BEAR AREA

ROAD NO.
 W.O. NO.
 H15055
 SHEET 19 OF 72

DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:06 PM
 USERNAME => dnucl1
 DGN FILE => 25530012.dgn

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE



<p>Underground Service Alert</p> <p>Call: 811</p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>	<p>BENCHMARK</p> <p>S.B.CO BRASS DISK STAMPED 63-1-12 1975 ON TOP OF CURB, +/- 28" SOUTHERLY FROM HWY 38 & 0.15 MILES EASTERLY FROM INTERSECTION HWY 38 & STANFIELD CUTOFF AS SHOWN PER SPSN 00271. NGVD-29 ELEVATION = 6789.402</p>	<p>PREPARED BY:</p> <p>DOKKEN ENGINEERING</p> <p>110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642</p> <p>06/12/24 MATTHEW ATKINSON, PROJECT MANAGER</p>		<p>MARK</p>	<p>REVISIONS</p>	<p>APPR. DATE</p>	<p>SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p>	<p>CONSTRUCTION DETAILS</p> <p>SCALE: 1"=3'</p> <p>STATE HIGHWAY 38 STANFIELD CUTOFF ROUNDABOUT</p> <p>BIG BEAR AREA</p>	<p>ROAD NO.</p>
				<p>DATE: 6/26/24</p> <p>DESIGNED BY: RS</p> <p>DATE: 6/26/24</p> <p>DRAWN BY: JP</p> <p>DATE: 6/26/24</p> <p>CHECKED BY: LK</p> <p>APPROVED BY: Mervat Mikhail, P.E., Deputy Director</p>	<p>W.O. NO. H15055</p> <p>SHEET 20 OF 72</p>				

C-12

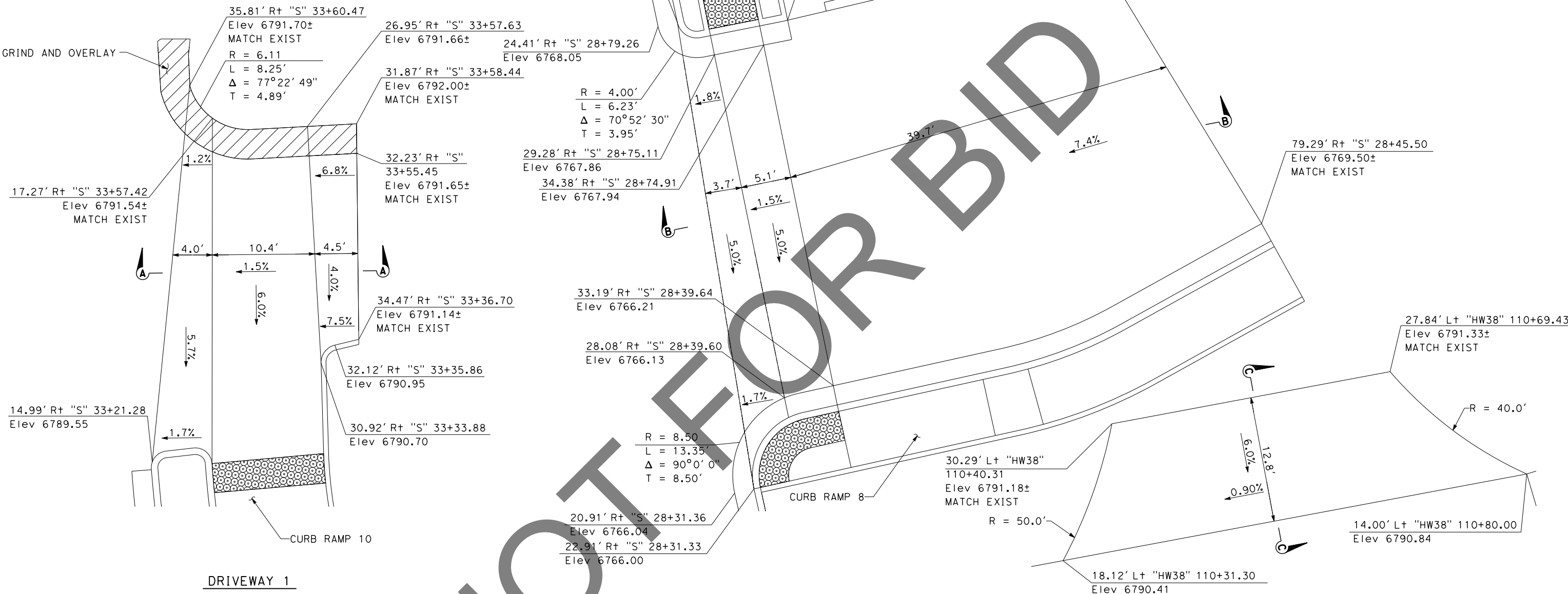
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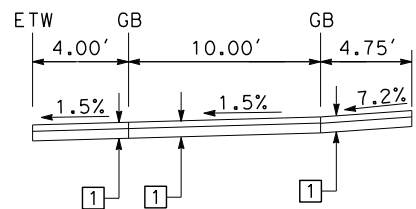
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0.50 CL 2 AB

GRIND AND OVERLAY

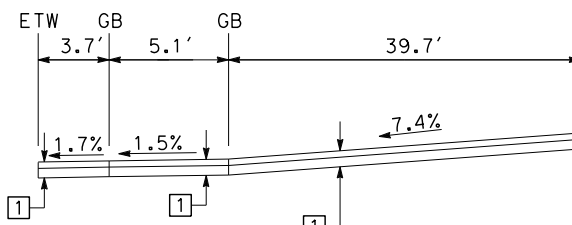


DRIVEWAY 1



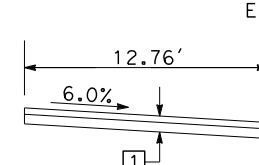
SECTION A-A

DRIVEWAY 2



SECTION B-B

DRIVEWAY 3



SECTION C-C

C-13

DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:07 PM
 USERNAME => dnucl1
 DGN FILE => 25530013.dgn

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

Underground Service Alert!

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

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 STANFIELD CUTOFF AS SHOWN PER SPSPN
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

06/12/24
 MATTHEW ATKINSON, PROJECT MANAGER



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* 6/26/24
 DATE: 6/26/24

TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: *Thomas Bustamonte* 6/26/24
 DATE: 6/26/24

THOMAS BUSTAMONTE, P.E.
 SUPERVISING ENGINEER

CHECKED BY: *Mervat Mikhail* 6/26/24
 DATE: 6/26/24

MERVAT MIKHAIL, P.E.
 DEPUTY DIRECTOR

CONSTRUCTION DETAILS

SCALE: 1"=5'

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

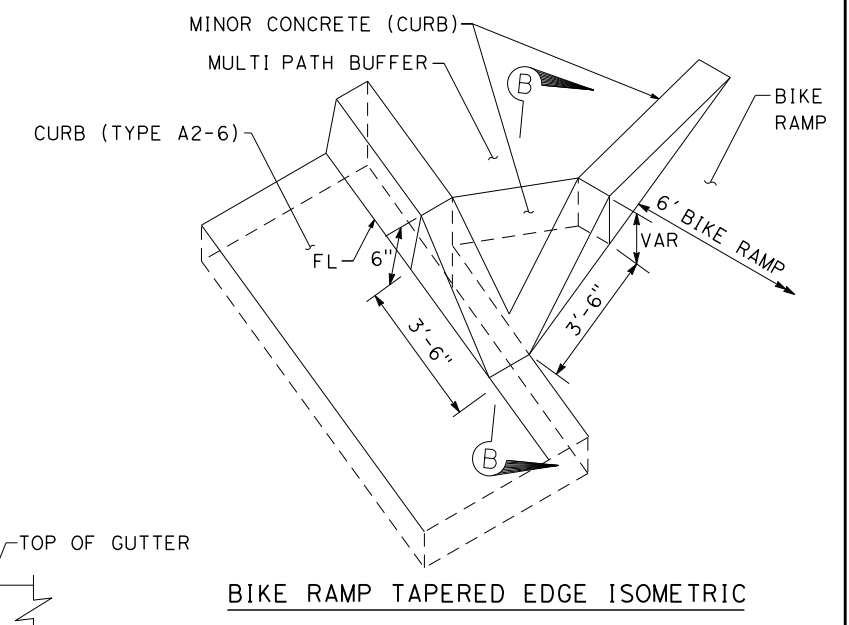
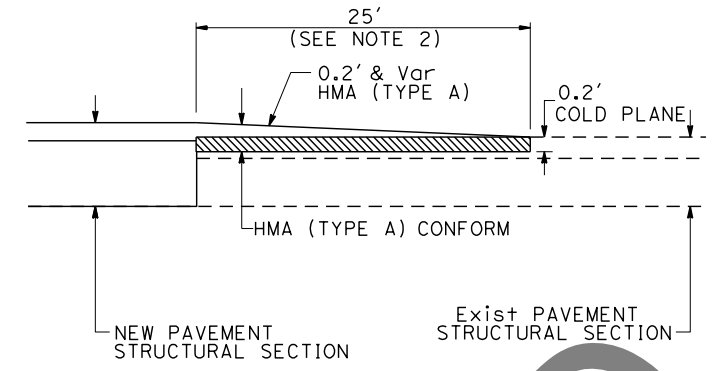
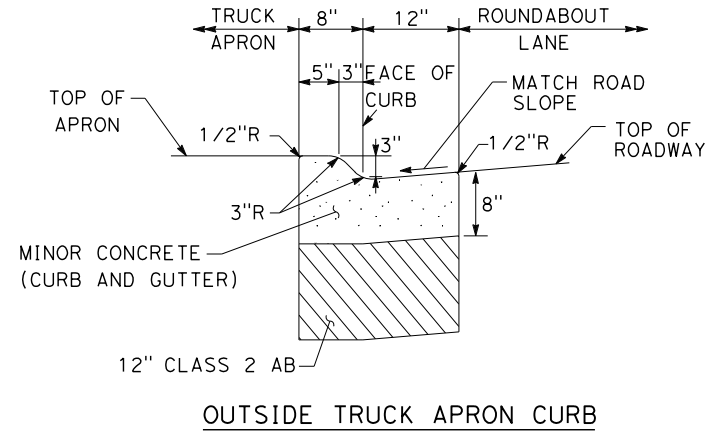
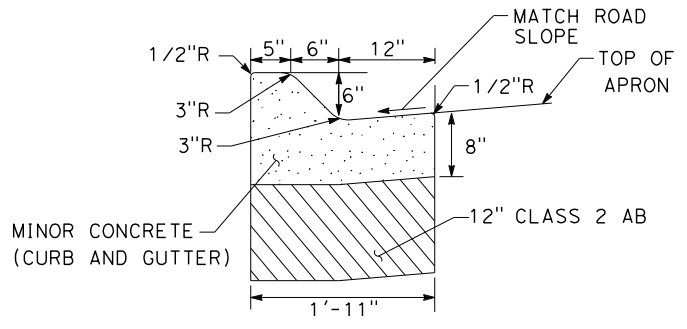
BIG BEAR AREA

ROAD NO. W.O. NO. H15055

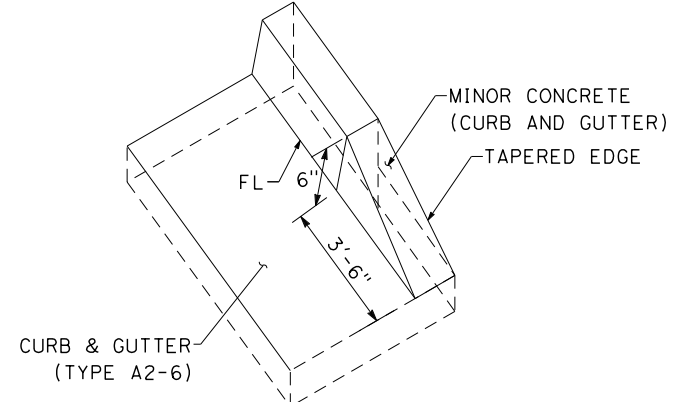
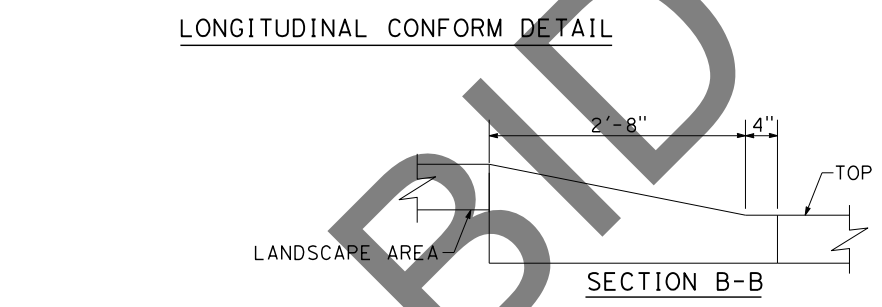
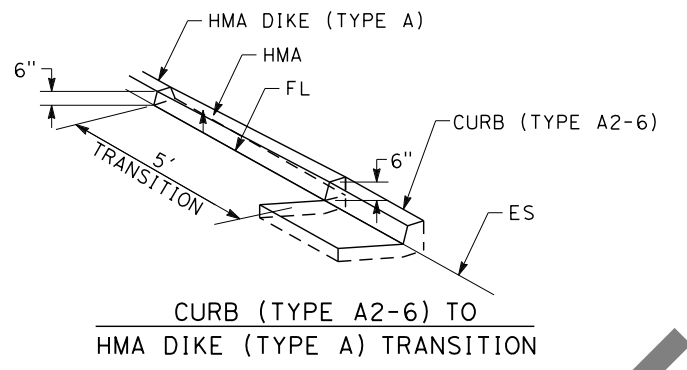
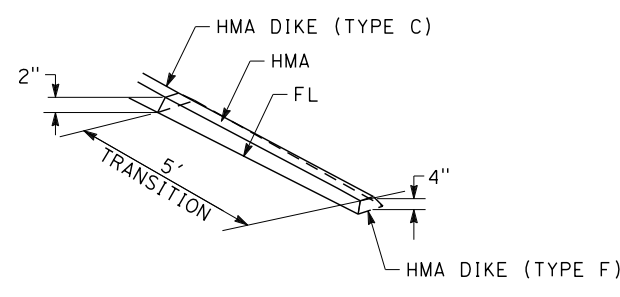
SHEET 21 OF 72

- LEGEND:**
- CLASS 2 AGGREGATE BASE
 - MINOR CONCRETE

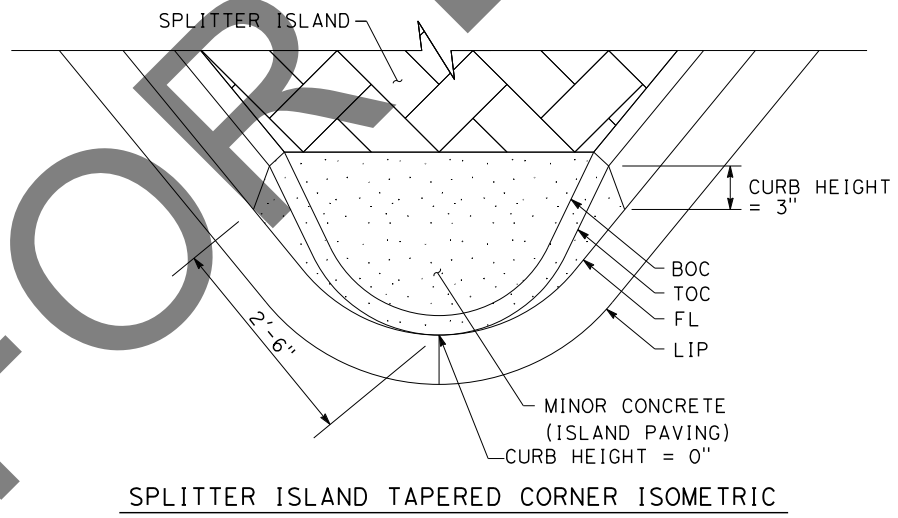
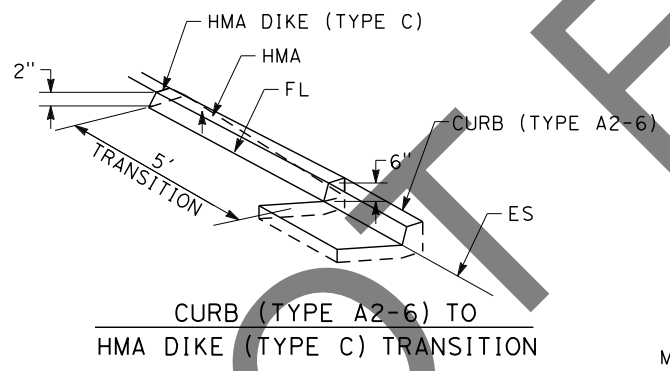
- NOTES:**
- FOR DETAILS NOT SHOWN, SEE CALTRANS STD PLANS.
 - LONGITUDINAL CONFORM IS 25' LONG, UNLESS SHOWN DIFFERENT ON THE LAYOUT.



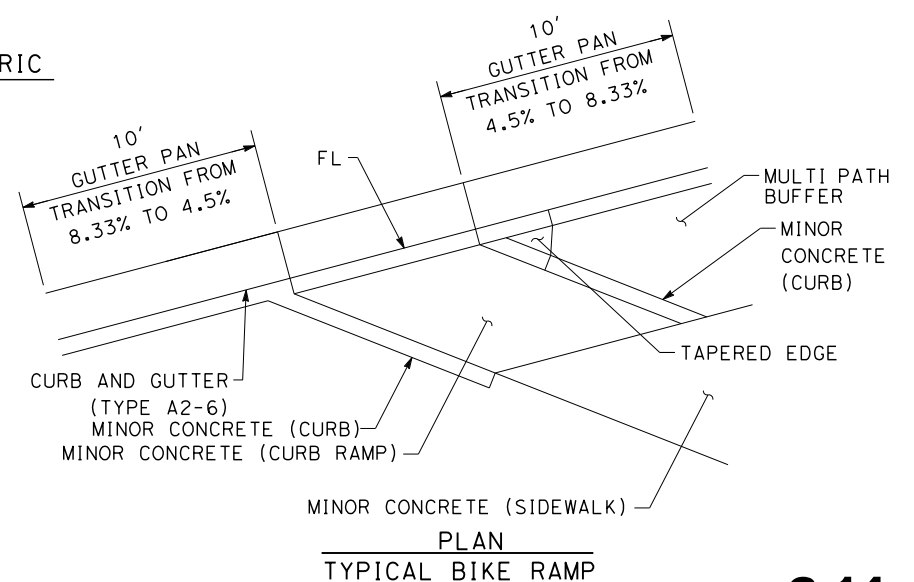
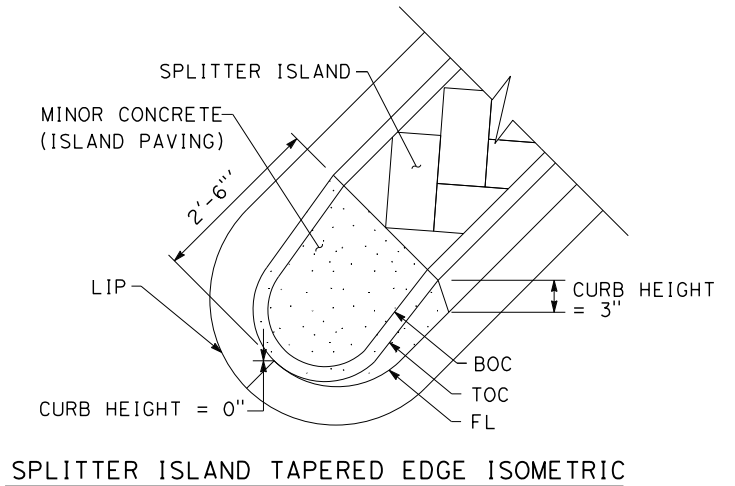
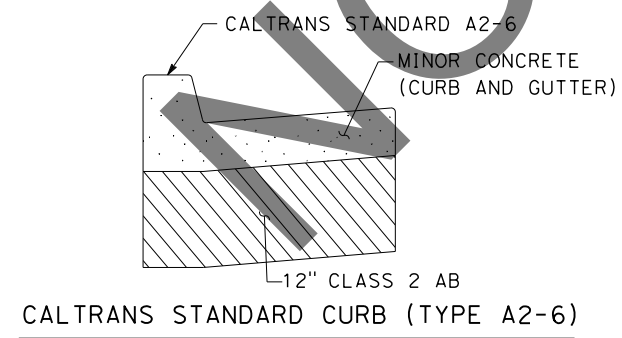
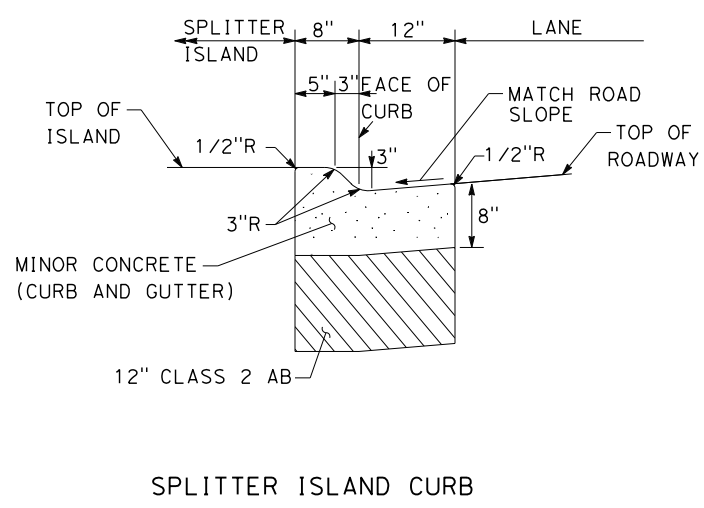
CENTER ISLAND APRON CURB



HMA DIKE (TYPE C) TO HMA DIKE (TYPE F)



CURB & GUTTER (TYPE A2-6) TAPERED EDGE ISOMETRIC



C-14

REVISION 01/12/2023
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:08 PM
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 DGN FILE => 25530014.dgn

Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK

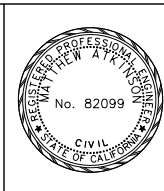
S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB. +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SPSP
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 91658-0642

06/12/24
 MATTHEW ATKINSON, PROJECT MANAGER



MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: **RS** DATE: 6/26/24
 DRAWN BY: **JP**
 CHECKED BY: **LK**

APPROVED BY: **Thomas Bustamonte** DATE: 6/26/24
 THOMAS BUSTAMONTE, P.E., SUPERVISING ENGINEER
 MERVAT MIRHAIL, P.E., DEPUTY DIRECTOR

CONSTRUCTION DETAILS

SCALE: 1"=1'

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

BIG BEAR AREA

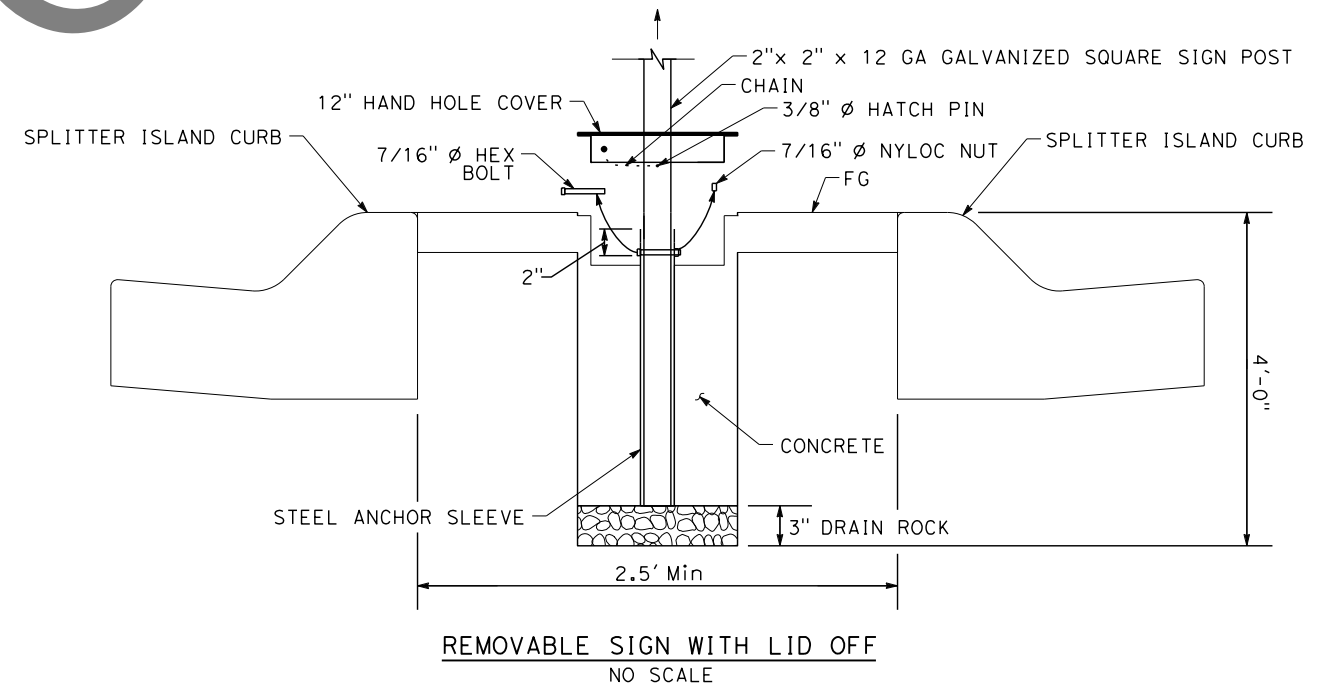
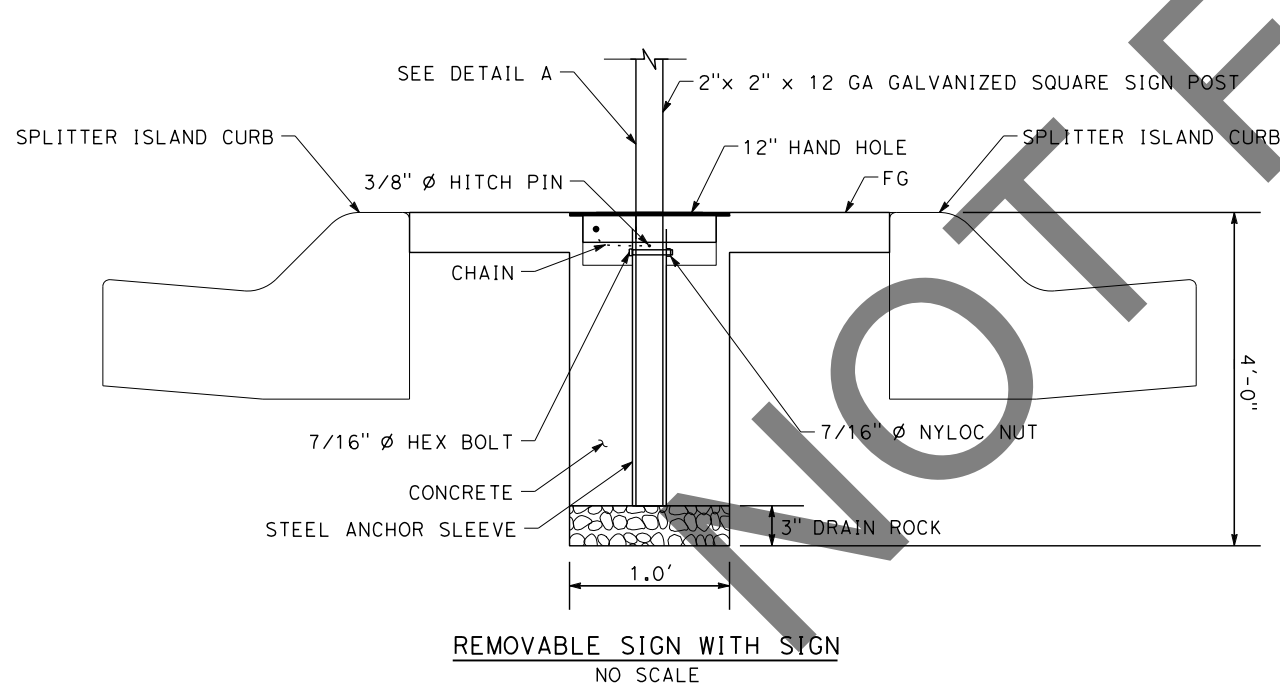
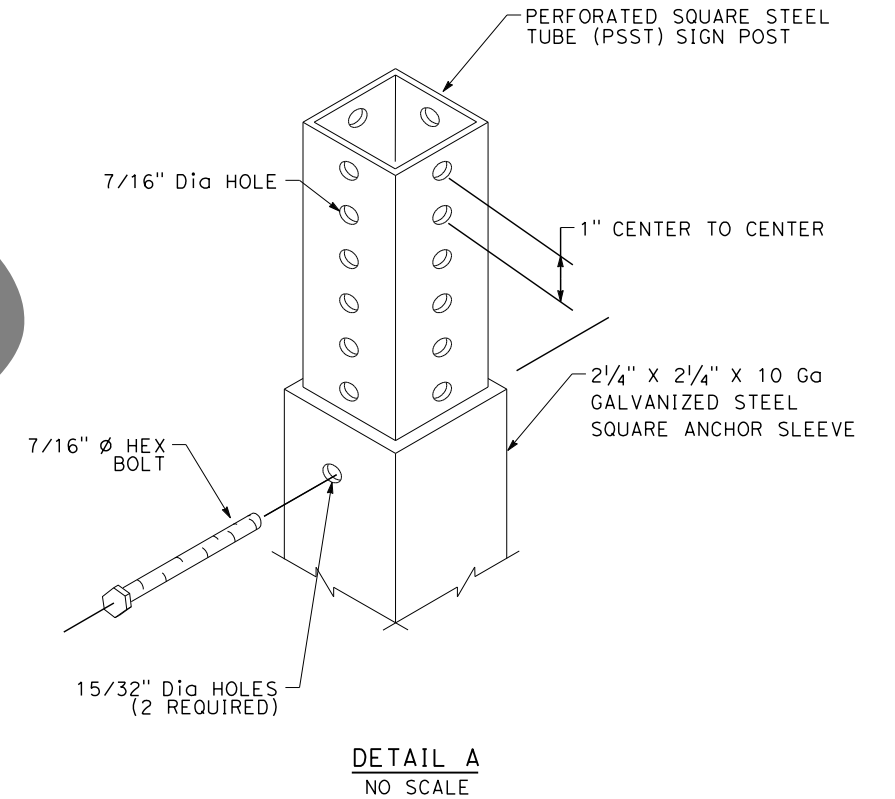
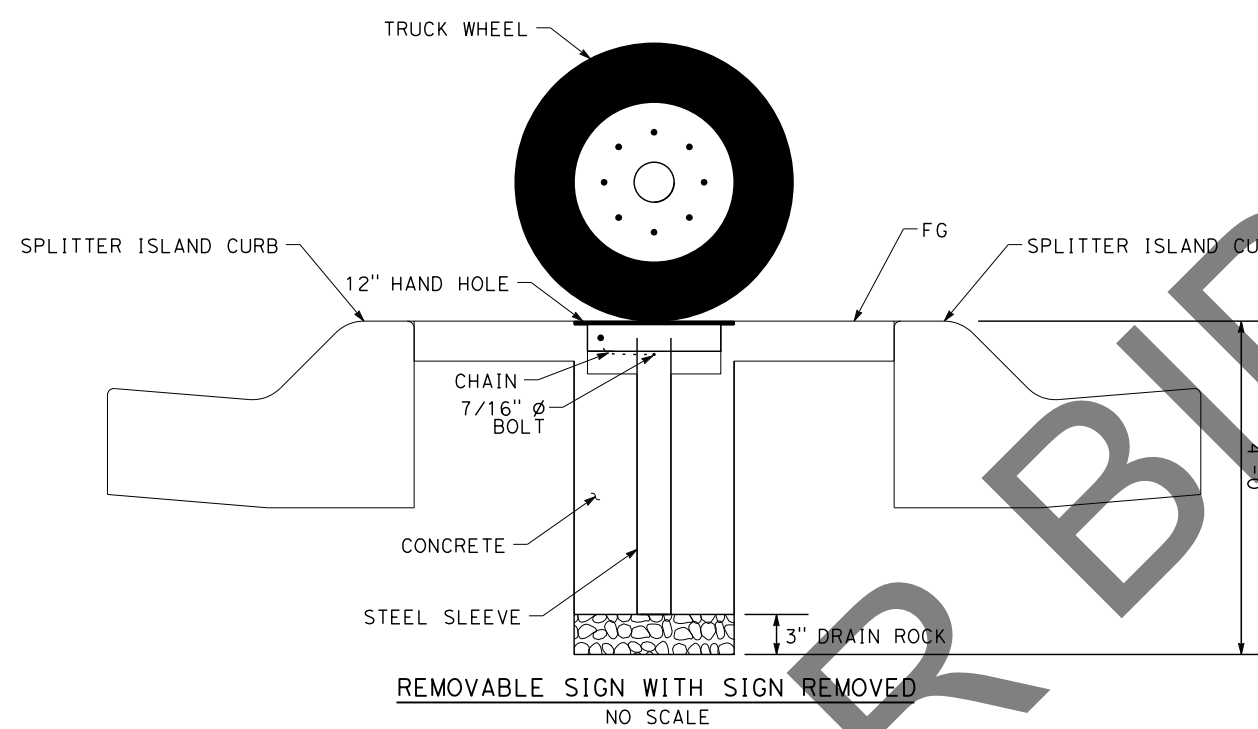
ROAD NO. _____

W.O. NO. H15055

SHEET 22 OF 72

STEPS:

- 1) LIFT HAND HOLE COVER BY SLIDING IT UP THE SIGN POST
- 2) PLACE 3/8" HATCH PIN THROUGH THE SIGN POST TO KEEP THE HAND HOLE COVER ELEVATED
- 3) REMOVE THE 7/16" NYLOC END BOLT
- 4) REMOVE SIGN AND HAND HOLE COVER ASSEMBLY
- 5) REMOVE 7/16" PIN AND SLIDE OFF HAND HOLE COVER
- 6) PLACE HAND HOLE COVER ON HAND HOLE FRAME



C-15

REVISION 01/12/2023
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:09 PM
 USERNAME => dnucl
 DGN FILE => 25530d015.dgn

Underground Service Alert+

 Call: 811
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB. +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SPSN
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

DOKKEN ENGINEERING
 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
 MATTHEW ATKINSON, PROJECT MANAGER
 06/12/24
 DATE

MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: 6/26/24
 DATE: RS
 TRANSPORTATION DESIGN ENGINEERING MANAGER

DRAWN BY: JP
 CHECKED BY: LK

APPROVED BY: 6/26/24
 DATE: THOMAS BUSTAMONTE, P.E.
 SUPERVISING ENGINEER

APPROVED BY: 6/26/2024
 DATE: MERVAT MIKHAIL, P.E.
 DEPUTY DIRECTOR

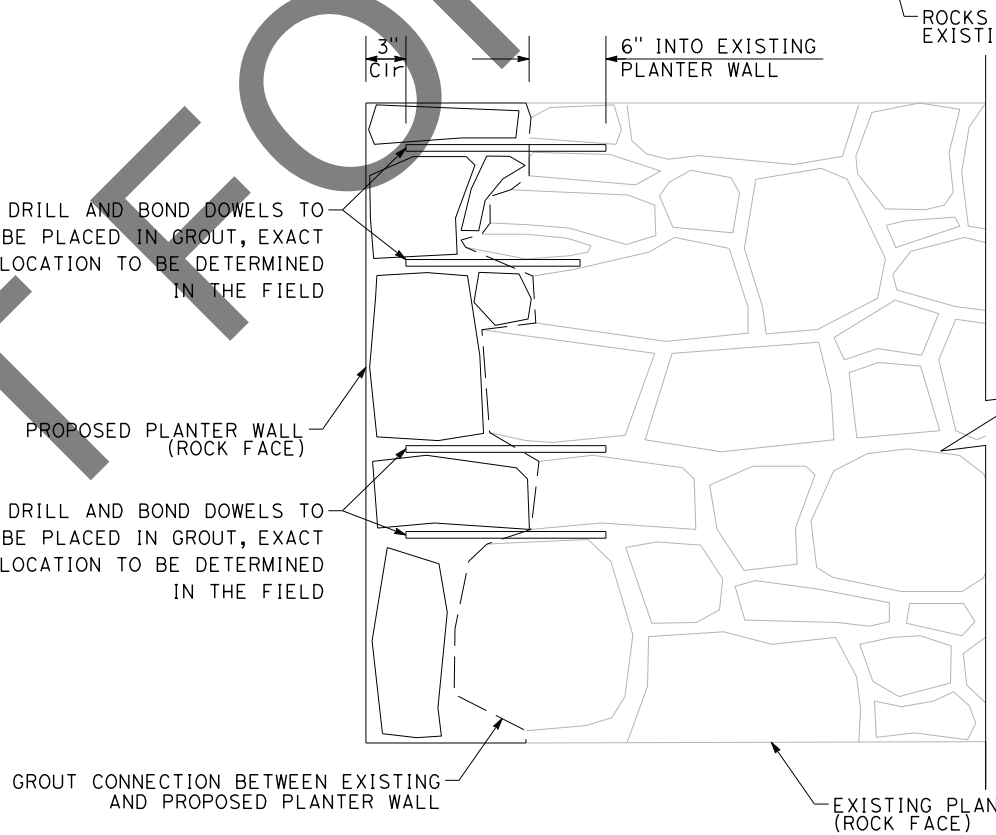
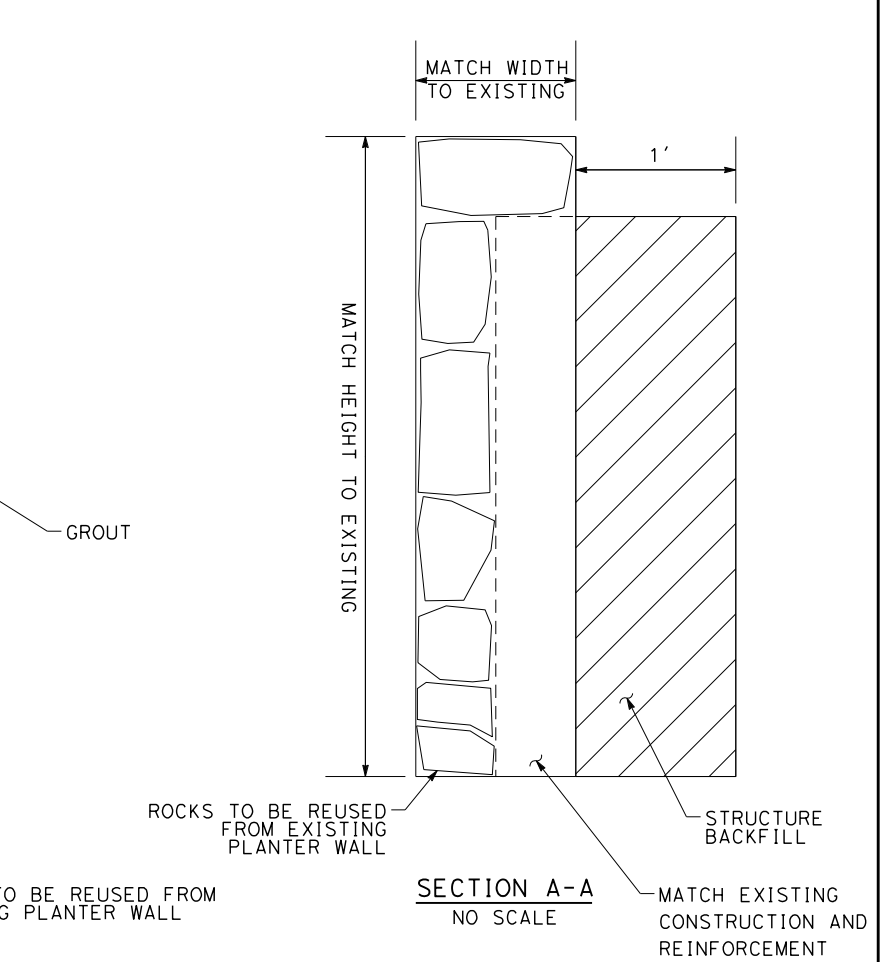
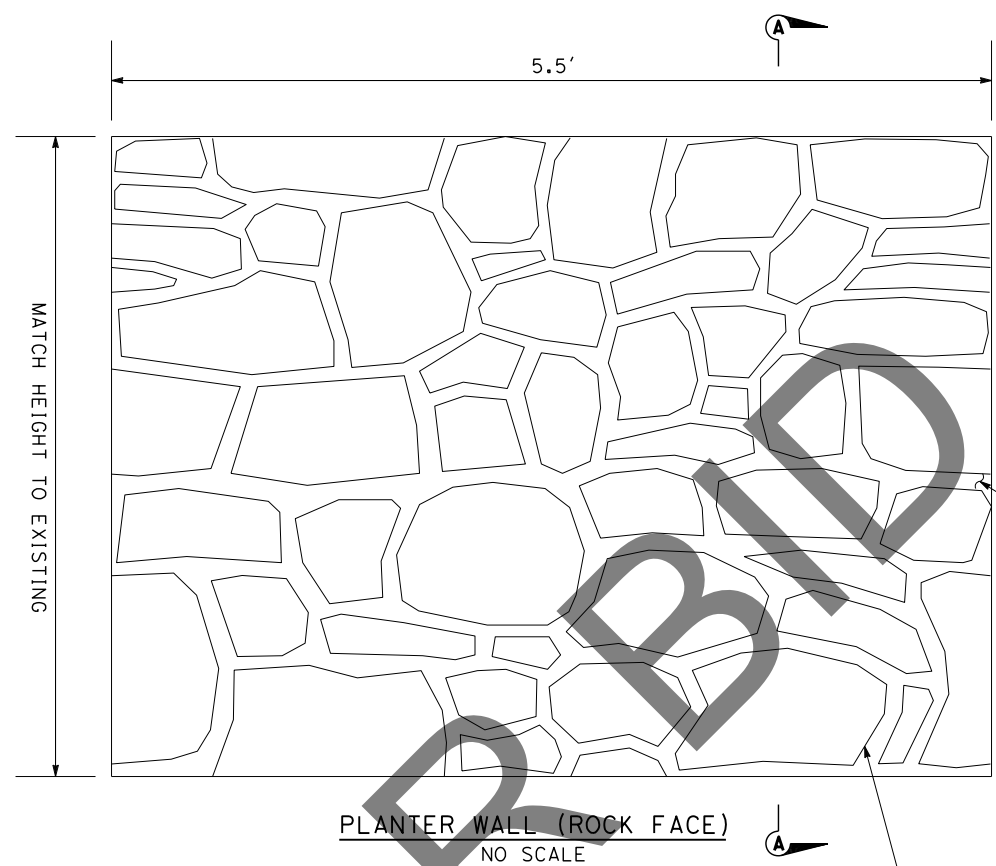
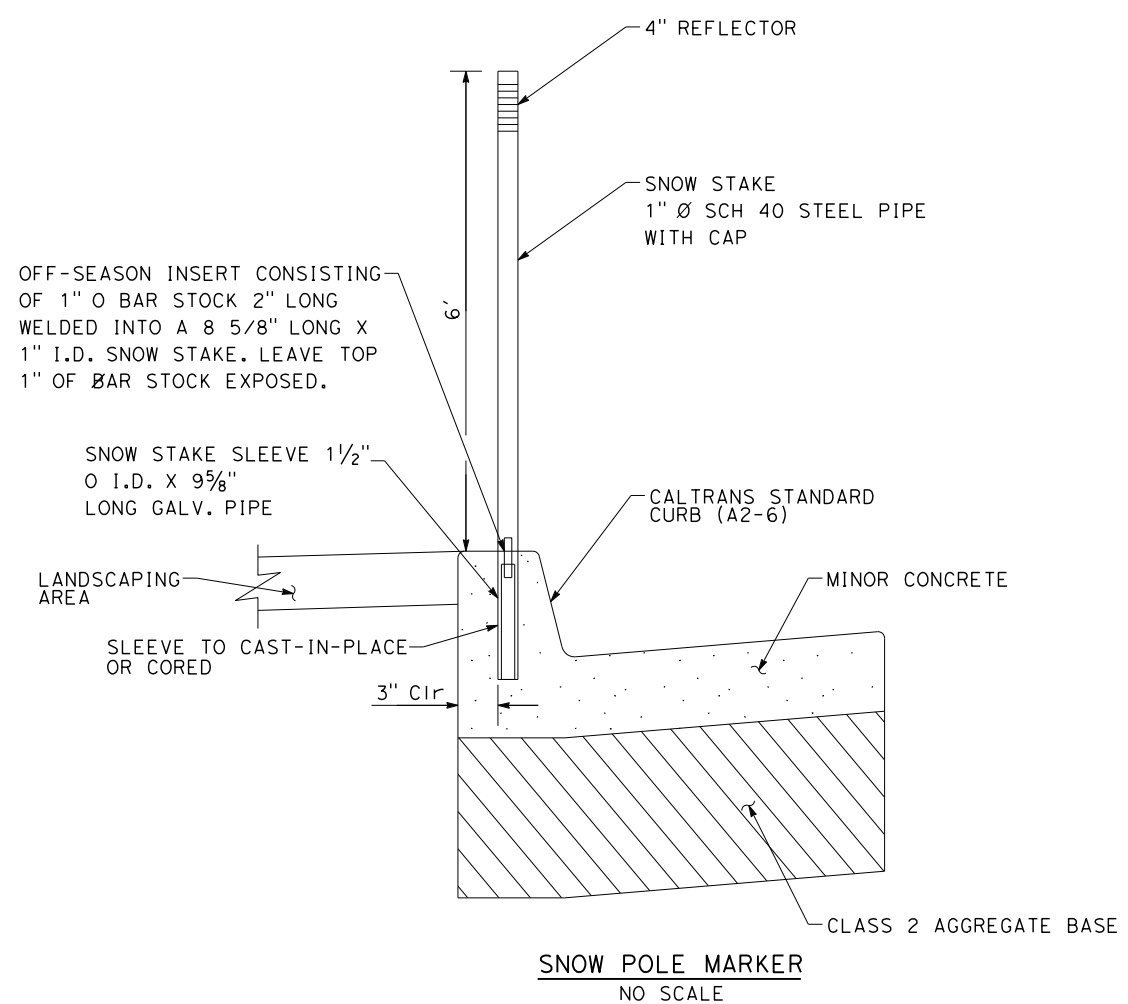
CONSTRUCTION DETAILS
 SCALE: 1"=3'
 STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT
 BIG BEAR AREA

ROAD NO.
 W.O. NO.
 H15055
 SHEET 23 OF 72

DATE PLOTTED => 6/25/2024
 TIME PLOTTED => 11:33:07 PM
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 DGN FILE => 25539d016.dgn

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE



NOT FOR BIDDING

C-16

Underground Service Alert

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB, +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SPSN
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642

06/12/24
 MATTHEW ATKINSON, PROJECT MANAGER DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: CHRIS NGUYEN, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER
 DATE: 6/26/24

APPROVED BY: Thomas Bustamonte, P.E., SUPERVISING ENGINEER
 DATE: 6/26/24

CHECKED BY: RS, JP, LK
 DATE: 6/26/2024

CONSTRUCTION DETAILS
 SCALE: 1"=3'

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT








BIG BEAR AREA

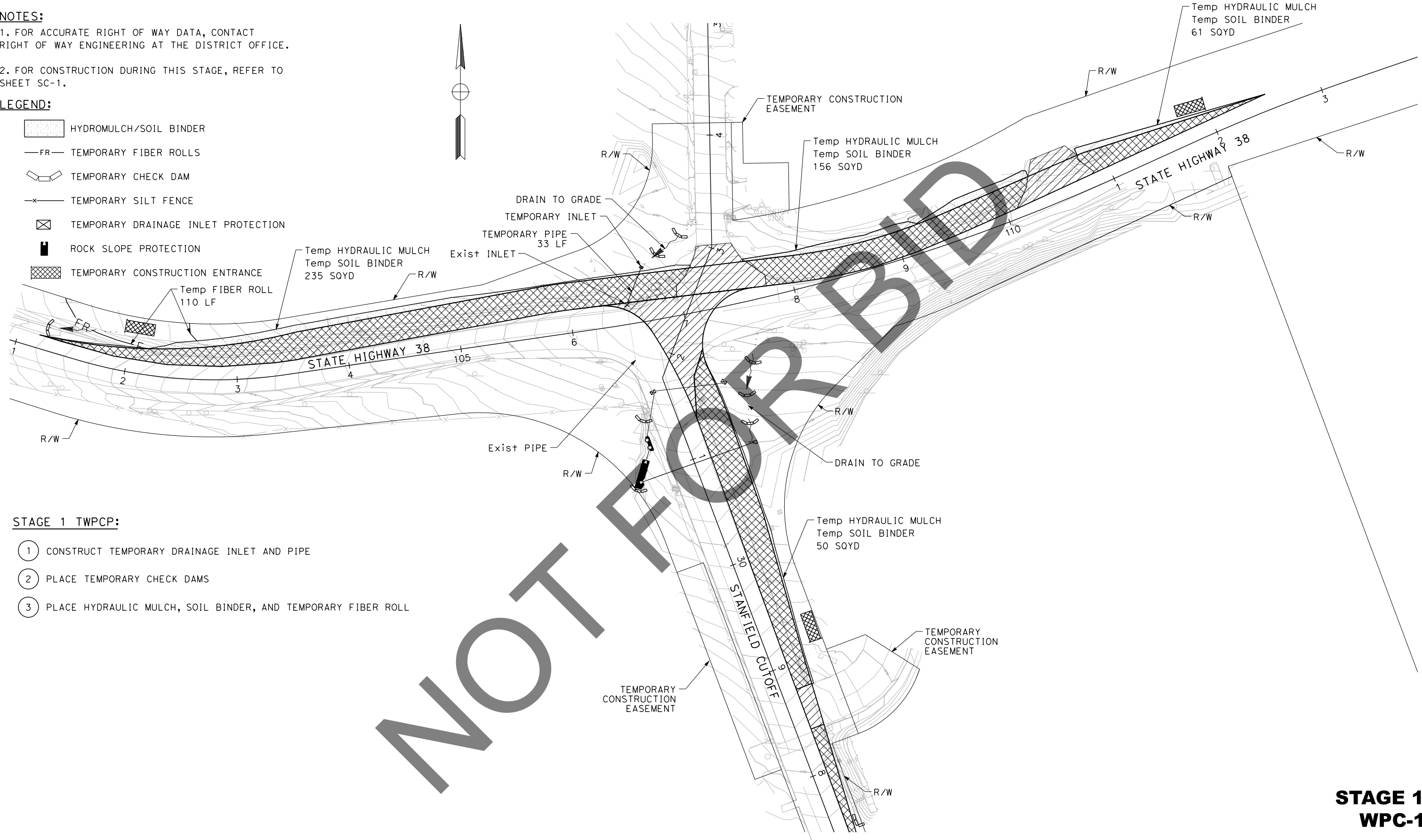
ROAD NO.
 W.O. NO. H15055
 SHEET 24 OF 72

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR CONSTRUCTION DURING THIS STAGE, REFER TO SHEET SC-1.

LEGEND:

-  HYDROMULCH/SOIL BINDER
-  TEMPORARY FIBER ROLLS
-  TEMPORARY CHECK DAM
-  TEMPORARY SILT FENCE
-  TEMPORARY DRAINAGE INLET PROTECTION
-  ROCK SLOPE PROTECTION
-  TEMPORARY CONSTRUCTION ENTRANCE



STAGE 1 TWPCP:

- 1 CONSTRUCT TEMPORARY DRAINAGE INLET AND PIPE
- 2 PLACE TEMPORARY CHECK DAMS
- 3 PLACE HYDRAULIC MULCH, SOIL BINDER, AND TEMPORARY FIBER ROLL

**STAGE 1
WPC-1**

REVISION 01/12/2023
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:11 PM
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MARK	REVISIONS	APPR.	DATE

Underground Service Alert



Call: 811

TWO WORKING DAYS BEFORE YOU DIG

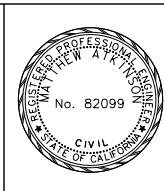
BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB, +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SPSN
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:



110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

MATTHEW ATKINSON, PROJECT MANAGER 06/12/24 DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: RS DATE: 6/26/24
 DRAWN BY: JP
 CHECKED BY: LK

APPROVED BY: Thomas Bustamonte DATE: 6/26/24
 THOMAS BUSTAMONTE, P.E., SUPERVISING ENGINEER
 MERVAT MIRHAIL, P.E., DEPUTY DIRECTOR

TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1"=40'

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

BIG BEAR AREA





ROAD NO.	
W.O. NO.	H15055
SHEET	25 OF 72

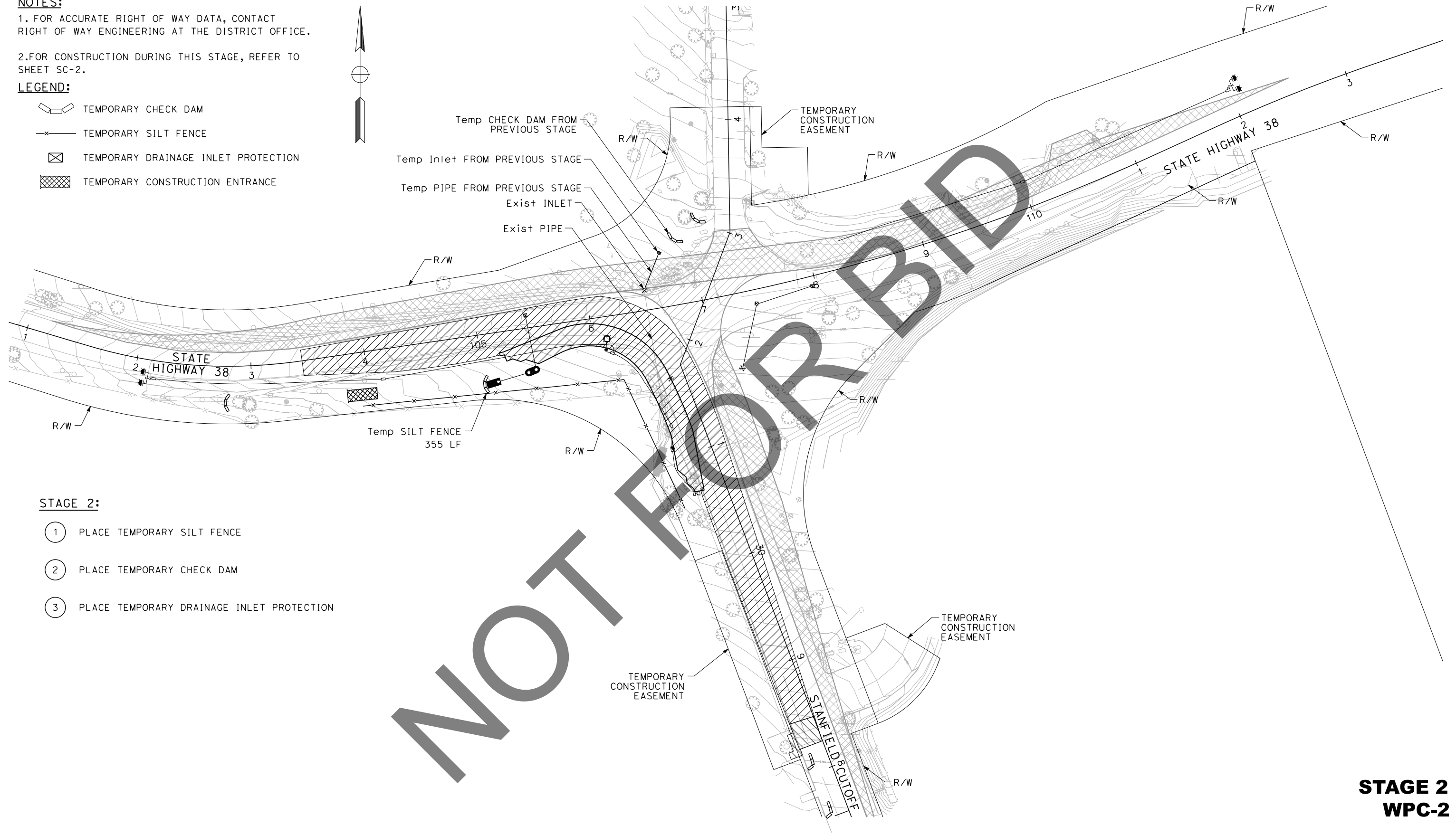
NOTES:

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

2. FOR CONSTRUCTION DURING THIS STAGE, REFER TO SHEET SC-2.

LEGEND:

-  TEMPORARY CHECK DAM
-  TEMPORARY SILT FENCE
-  TEMPORARY DRAINAGE INLET PROTECTION
-  TEMPORARY CONSTRUCTION ENTRANCE



STAGE 2:

- 1 PLACE TEMPORARY SILT FENCE
- 2 PLACE TEMPORARY CHECK DAM
- 3 PLACE TEMPORARY DRAINAGE INLET PROTECTION

**STAGE 2
WPC-2**

REVISION 01/12/2023
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:12 PM
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 DGN FILE => 25539d002.dgn

MARK	REVISIONS	APPR.	DATE

Underground Service Alert



Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB, +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SPSN
 00271. NGVD-29 ELEVATION = 6789.402

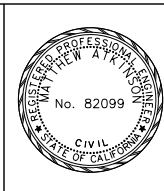
PREPARED BY:



110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

MATTHEW ATKINSON, PROJECT MANAGER

06/12/24
DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* 6/26/24
DATE: RS

DRAWN BY: JP

CHECKED BY: LK

APPROVED BY: *Thomas Bustamonte* 6/26/24
DATE: THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER

APPROVED BY: *Mervat Mikhail* 6/26/2024
DATE: MERVAT MIKHAIL, P.E. DEPUTY DIRECTOR

TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1"=40'

STATE HIGHWAY 38
STANFIELD CUTOFF
ROUNDBOUT

BIG BEAR AREA

ROAD NO.

W.O. NO.
H15055

SHEET 26 OF 72

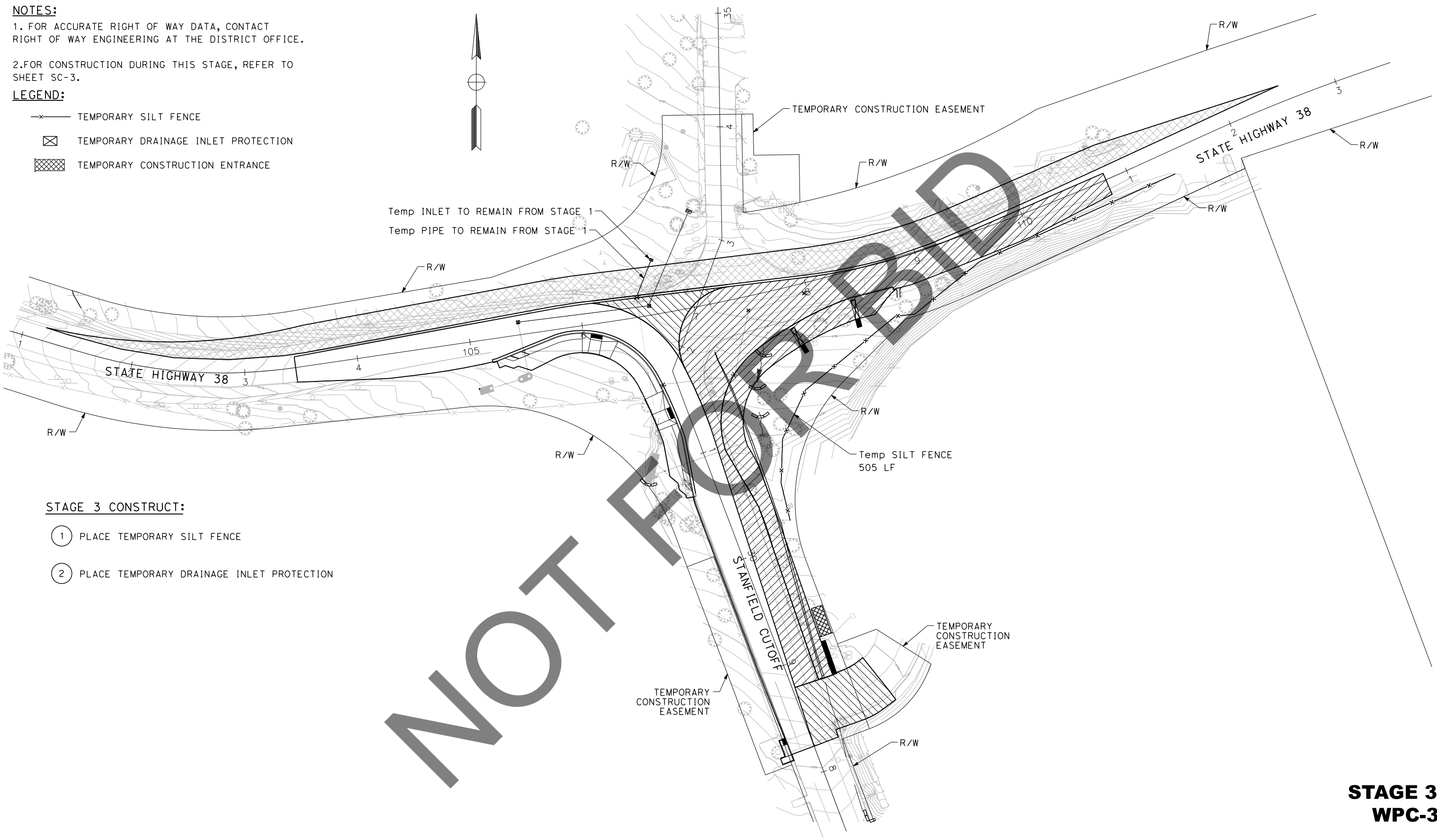
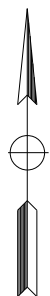
NOTES:

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

2. FOR CONSTRUCTION DURING THIS STAGE, REFER TO SHEET SC-3.

LEGEND:

- x- TEMPORARY SILT FENCE
- ☒ TEMPORARY DRAINAGE INLET PROTECTION
- ▨ TEMPORARY CONSTRUCTION ENTRANCE



STAGE 3 CONSTRUCT:

- 1 PLACE TEMPORARY SILT FENCE
- 2 PLACE TEMPORARY DRAINAGE INLET PROTECTION

NOT FOR BIDD

**STAGE 3
WPC-3**

USERNAME => dnucl
 DGN FILE => 25539d003.dgn
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:14 PM
 REVISIONS
 MARK
 APPR. DATE
 REVISIONS
 MARK
 APPR. DATE

REVISION 01/12/2023





<p>Underground Service Alert</p> <p>Call: 811</p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>	<p>BENCHMARK</p> <p>S.B.CO BRASS DISK STAMPED 63-1-12 1975 ON TOP OF CURB, +/- 28" SOUTHERLY FROM HWY 38 & 0.15 MILES EASTERLY FROM INTERSECTION HWY 38 & STANFIELD CUTOFF AS SHOWN PER SPSN 00271. NGVD-29 ELEVATION = 6789.402</p>	<p>PREPARED BY:</p> <p>DOKKEN ENGINEERING</p> <p>110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642</p> <p>06/12/24 MATTHEW ATKINSON, PROJECT MANAGER DATE</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MARK</th> <th>REVISIONS</th> <th>APPR</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	MARK	REVISIONS	APPR	DATE																	<p style="text-align: center;">SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>DESIGNED BY: <u>Chris Nguyen</u> 6/26/24 DATE: RS</p> <p>TRANSPORTATION DESIGN ENGINEERING MANAGER</p> <p>APPROVED BY: <u>Thomas Bustamonte</u> 6/26/24 DATE: TH</p> <p>SUPERVISING ENGINEER</p>	<p style="text-align: center;">TEMPORARY WATER POLLUTION CONTROL PLAN</p> <p style="text-align: center;">SCALE: 1"=40'</p> <p style="text-align: center;">STATE HIGHWAY 38 STANFIELD CUTOFF ROUNDBOUT</p> <p style="text-align: center;">BIG BEAR AREA</p>	<p>ROAD NO.</p> <p>W.O. NO. H15055</p> <p>SHEET 27 OF 72</p>
MARK	REVISIONS	APPR	DATE																								

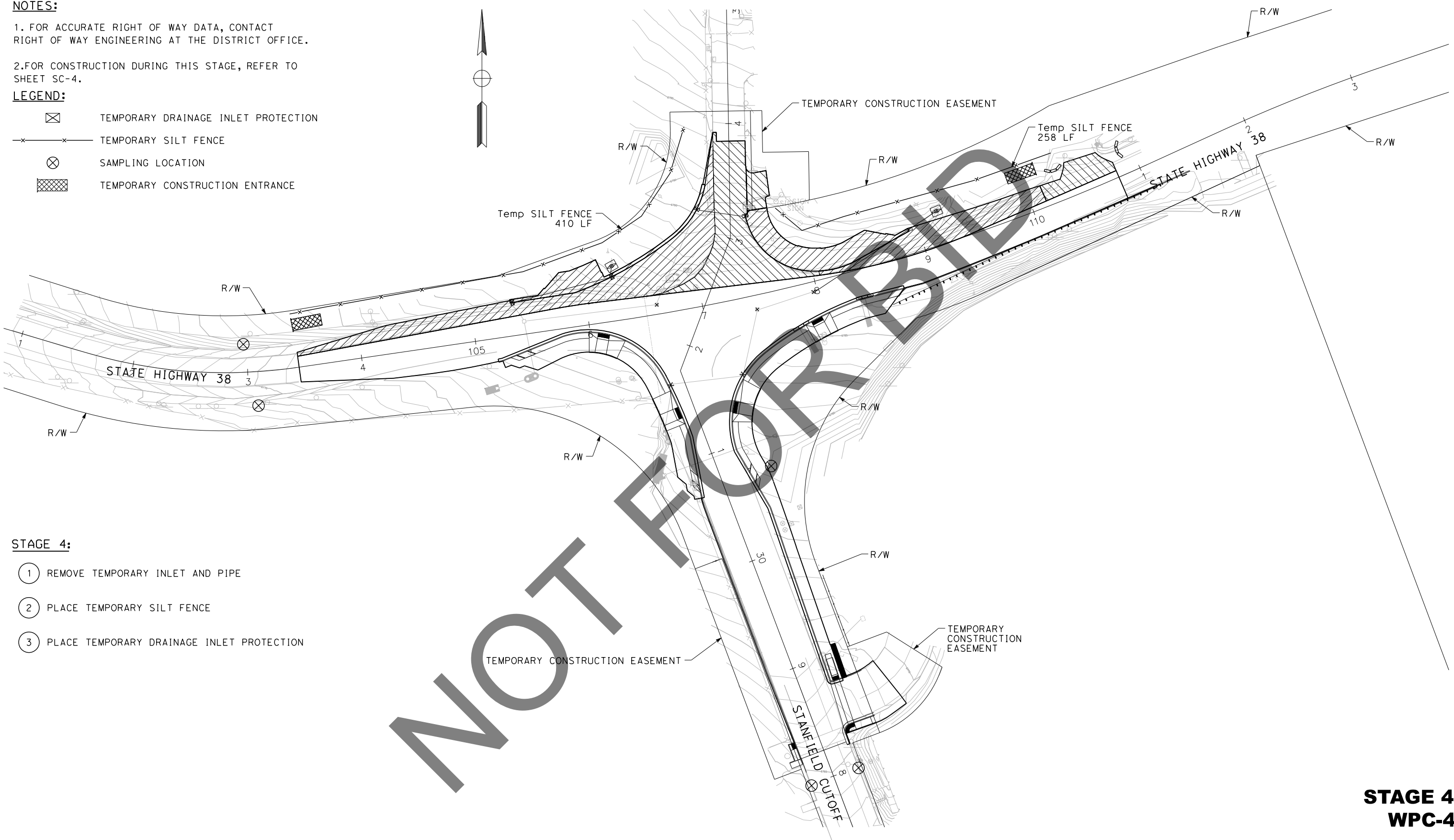
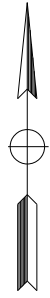
NOTES:

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

2.FOR CONSTRUCTION DURING THIS STAGE, REFER TO SHEET SC-4.

LEGEND:

-  TEMPORARY DRAINAGE INLET PROTECTION
-  TEMPORARY SILT FENCE
-  SAMPLING LOCATION
-  TEMPORARY CONSTRUCTION ENTRANCE




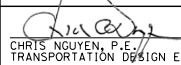

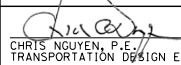

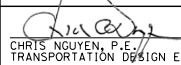



STAGE 4:

- 1 REMOVE TEMPORARY INLET AND PIPE
- 2 PLACE TEMPORARY SILT FENCE
- 3 PLACE TEMPORARY DRAINAGE INLET PROTECTION

**STAGE 4
WPC-4**

USERNAME => dnucl
 DGN FILE => 25539d004.dgn
 DATE PLOTTED => 6/21/2024
 TIME PLOTTED => 2:58:15 PM
 REVISIONS
 MARK
 APPR. DATE
 REVISIONS
 MARK

 <p>Underground Service Alert Call: 811 TWO WORKING DAYS BEFORE YOU DIG</p>	<p>BENCHMARK S.B.CO BRASS DISK STAMPED 63-1-12 1975 ON TOP OF CURB, +/- 28" SOUTHERLY FROM HWY 38 & 0.15 MILES EASTERLY FROM INTERSECTION HWY 38 & STANFIELD CUTOFF AS SHOWN PER SPSN 00271. NGVD-29 ELEVATION = 6789.402</p>	<p>PREPARED BY:  110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642 MATTHEW ATKINSON, PROJECT MANAGER 06/12/24 DATE</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MARK</th> <th>REVISIONS</th> <th>APPR</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	MARK	REVISIONS	APPR	DATE																									<p style="text-align: center;">SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p> <table style="width: 100%;"> <tr> <td>DESIGNED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 6/26/24 DATE</td> <td>DRAWN BY: JP 6/26/24 DATE</td> <td>CHECKED BY: LK 6/26/24 DATE</td> </tr> <tr> <td colspan="3">APPROVED BY:  THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER 6/26/24 DATE</td> </tr> <tr> <td colspan="3">  MERVAT MIKHAIL, P.E. DEPUTY DIRECTOR 6/26/24 DATE </td> </tr> </table>	DESIGNED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 6/26/24 DATE	DRAWN BY: JP 6/26/24 DATE	CHECKED BY: LK 6/26/24 DATE	APPROVED BY:  THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER 6/26/24 DATE			 MERVAT MIKHAIL, P.E. DEPUTY DIRECTOR 6/26/24 DATE			<p style="text-align: center;">TEMPORARY WATER POLLUTION CONTROL PLAN SCALE: 1"=40' STATE HIGHWAY 38 STANFIELD CUTOFF ROUNDABOUT BIG BEAR AREA</p>	<p>ROAD NO. STATE HIGHWAY 38 W.O. NO. H15055 SHEET 28 OF 72</p>
MARK	REVISIONS	APPR	DATE																																									
DESIGNED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 6/26/24 DATE	DRAWN BY: JP 6/26/24 DATE	CHECKED BY: LK 6/26/24 DATE																																										
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 MERVAT MIKHAIL, P.E. DEPUTY DIRECTOR 6/26/24 DATE																																												

WATER POLLUTION CONTROL QUANTITIES

SHEET No.	STAGE No.	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY CONSTRUCTION ENTRANCE
		EA	EA
WPC-1	1	4	3
WPC-2	2	3	1
WPC-3	3	4	1
WPC-4	4	5	2
TOTAL		16	7

WATER POLLUTION CONTROL QUANTITIES

SHEET No.	STAGE No.	STATION LIMITS	LOCATION	TEMPORARY HYDROMULCH	TEMPORARY SOIL BINDER	FIBER ROLLS	TEMPORARY CHECK DAM	TEMPORARY SILT FENCE
				SQYD	SQYD	LF	LF	LF
WPC-1	1	"HW38" 101+18.00 TO 108+13.40	LEFT	235	235	110	-	-
		"HW38" 107+60.00 TO 110+30.00	LEFT	156	156	-	-	-
		"HW38" 110+78.35 TO 112+51.75	LEFT	61	61	-	-	-
		"S" 28+76.67 TO 32+05.84	RIGHT	50	50	-	-	-
		"HW38" 106+70.40 TO 107+26.80	LEFT	-	-	-	62	-
		"S" 30+98.00 TO 31+48.00	LEFT	-	-	-	55	-
		"S" 30+96.00 TO 31+43.50	RIGHT	-	-	-	98	-
		"HW38" 101+20.50 TO 102+25.00	LEFT	-	-	-	60	-
WPC-2	2	"S" 28+48.00 TO 20+52.00	RIGHT	-	-	-	5	-
		"HW38" 103+92.25 TO "S" 31+13.00	RIGHT/LEFT	-	-	-	-	355
		"HW38" 102+80.00 TO "HW38" 103+00.00	RIGHT	-	-	-	40	-
WPC-3	3	"S" 27+60 TO 28+25.00	LEFT	-	-	-	65	-
		"S" 30+17.25 TO "HW38" 111+37.40	RIGHT	-	-	-	-	505
WPC-4	4	"HW38" 103+43.50 TO 107+15.00	LEFT	-	-	-	-	410
		"HW38" 107+81.50 TO 110+33.00	LEFT	-	-	-	-	258
		"HW38" 107+80.00 TO 108+40	RIGHT	-	-	-	-	60
		"HW38" 110+30.00 TO 110+90.00	LEFT	-	-	-	-	60
TOTAL				502	502	110	280	1648

NOT FOR BID

WPCQ-1

DATE PLOTTED => 6/21/2024
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REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

Underground Service Alert

 Call: 811
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
 1975 ON TOP OF CURB, +/- 28"
 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SPSN
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
 MATTHEW ATKINSON, PROJECT MANAGER
 06/12/24
 DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: RS DATE: 6/26/24
 DRAWN BY: JP
 CHECKED BY: LK

APPROVED BY: Thomas Bustamonte DATE: 6/26/24
 THOMAS BUSTAMONTE, P.E., SUPERVISING ENGINEER

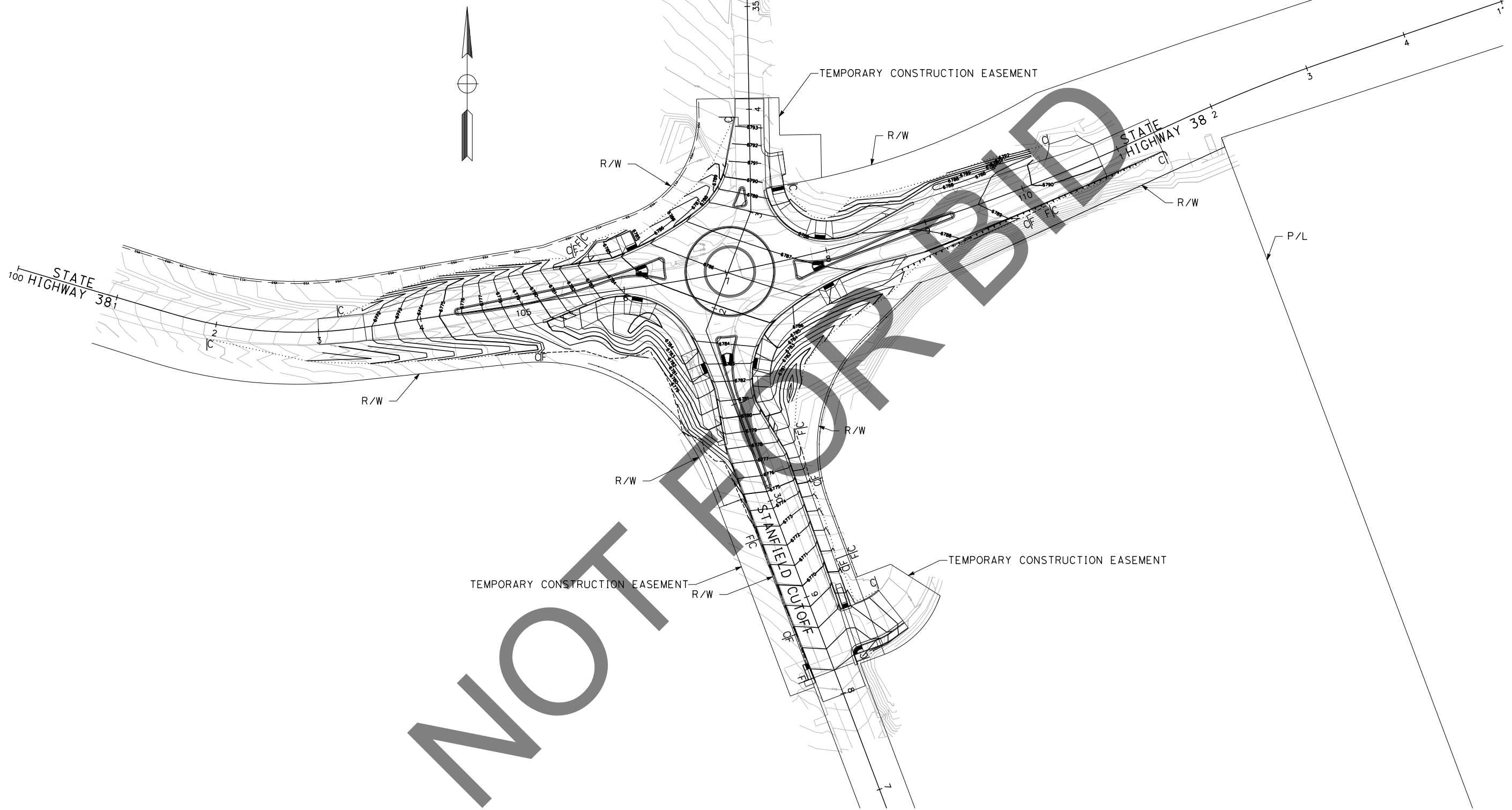
APPROVED BY: Mervat Mirhail DATE: 6/26/2024
 MERVAT MIRHAIL, P.E., DEPUTY DIRECTOR

TEMPORARY WATER POLLUTION CONTROL QUANTITIES
NO SCALE
 STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT
 BIG BEAR AREA

ROAD NO.
 W.O. NO. H15055
 SHEET 29 OF 72

NOTES:

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



NOT FOR CONSTRUCTION

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

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 DATE PLOTTED => 6/21/2024
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Underground Service Alert



Call: 811

TWO WORKING DAYS BEFORE YOU DIG

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PREPARED BY:



110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

Matthew Atkinson 06/12/24
 MATTHEW ATKINSON, PROJECT MANAGER DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

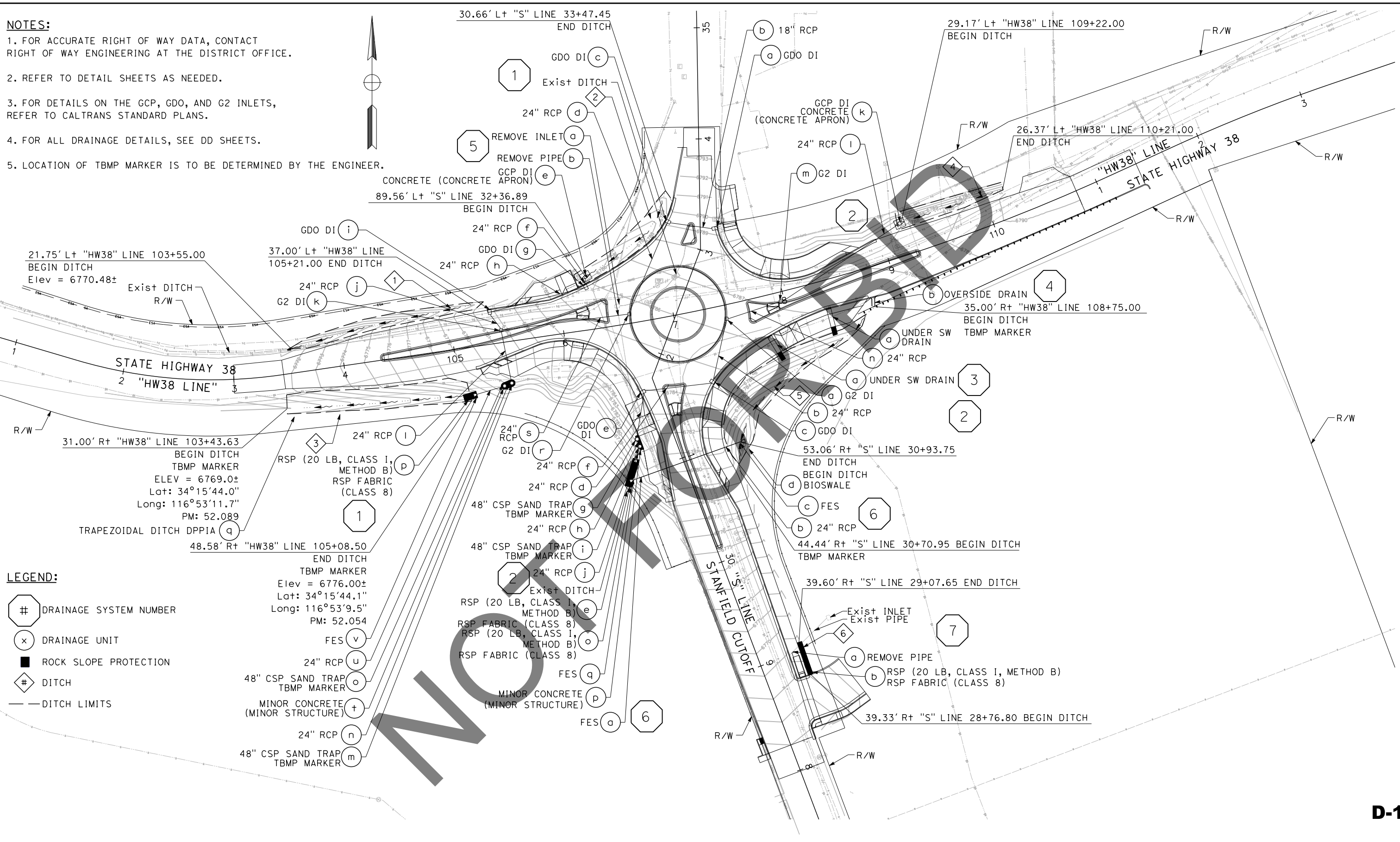
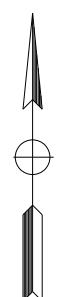
<i>Chris Nguyen</i> CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER	6/26/24 DATE	DESIGNED BY: <u>RS</u>	DRAWN BY: <u>JP</u>	CHECKED BY: <u>LK</u>
<i>Thomas Bustamonte</i> THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER	6/26/24 DATE	APPROVED BY: <i>Mervat Mirhail</i> MERVAT MIRHAIL, P.E. DEPUTY DIRECTOR		
			6/26/2024 DATE	

CONTOUR GRADING SCALE: 1"=50'	ROAD NO.
STATE HIGHWAY 38 STANFIELD CUTOFF ROUNDBOUT	W.O. NO. H15055
BIG BEAR AREA	SHEET 30 OF 72

G-1

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO DETAIL SHEETS AS NEEDED.
3. FOR DETAILS ON THE GCP, GDO, AND G2 INLETS, REFER TO CALTRANS STANDARD PLANS.
4. FOR ALL DRAINAGE DETAILS, SEE DD SHEETS.
5. LOCATION OF TBMP MARKER IS TO BE DETERMINED BY THE ENGINEER.



LEGEND:

- # DRAINAGE SYSTEM NUMBER
- x DRAINAGE UNIT
- ROCK SLOPE PROTECTION
- # DITCH
- DITCH LIMITS
- FES v
- 24" RCP u
- 48" CSP SAND TRAP TBMP MARKER o
- MINOR CONCRETE (MINOR STRUCTURE) t
- 24" RCP n
- 48" CSP SAND TRAP TBMP MARKER m
- RSP (20 LB, CLASS 1, METHOD B) RSP FABRIC (CLASS 8) p
- Elev = 6776.00±
- Lat: 34°15'44.1"
- Long: 116°53'9.5"
- PM: 52.054

REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE

Underground Service Alert!

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK

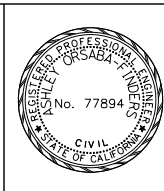
S.B.CO BRASS DISK STAMPED 63-1-12
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EASTERLY FROM INTERSECTION HWY 38 &
STANFIELD CUTOFF AS SHOWN PER SPSN
00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

Ashley Orsaba-Finders, Senior Engineer

06/12/24 DATE



MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: CHRIS NGUYEN, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER

DATE: 6/26/24

DRAWN BY: AOF

CHECKED BY: JP, LK

APPROVED BY: Thomas Bustamonte, P.E., SUPERVISING ENGINEER

DATE: 6/26/24

APPROVED BY: Mervat Mikhail, P.E., DEPUTY DIRECTOR

DATE: 6/26/2024

DRAINAGE PLAN

SCALE: 1"=40'

STATE HIGHWAY 38
STANFIELD CUTOFF
ROUNDBOUT

BIG BEAR AREA

ROAD NO. _____

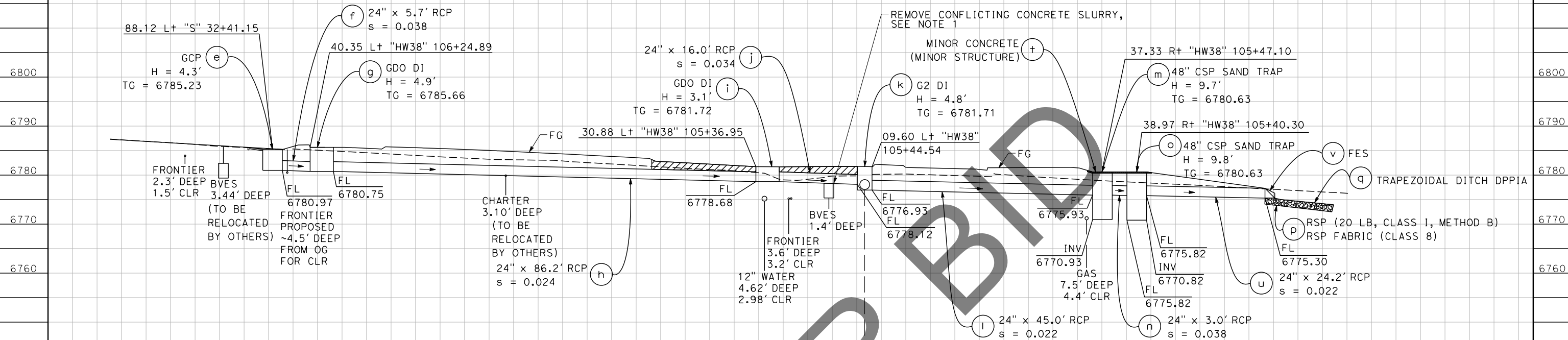
W.O. NO. H15055

SHEET 31 OF 72

D-1

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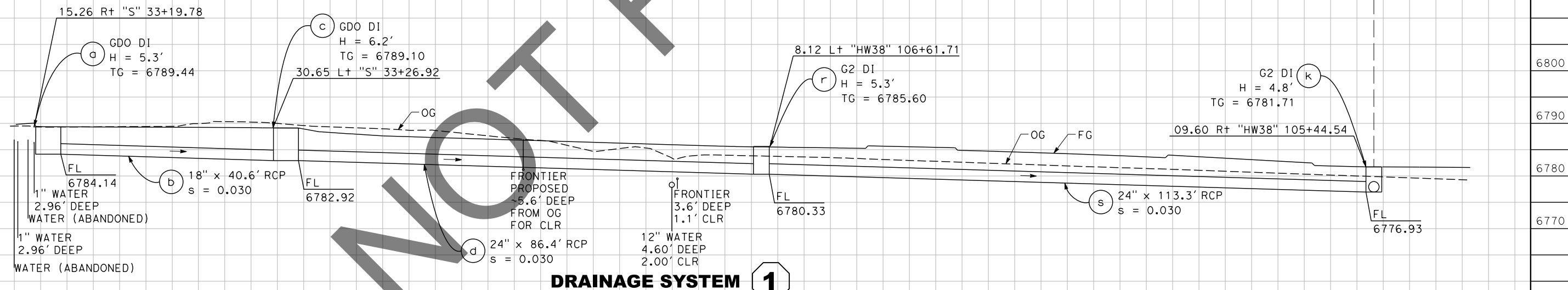
MINOR CONCRETE (BACKFILL)



NOTE:

1. BEFORE ANY REMOVAL OF CONCRETE SLURRY OF ELECTRICAL TRENCH, CONTACT BVES FOR ONSITE OBSERVATION.

IDENTICAL



DRAINAGE SYSTEM 1

REVISION 01/12/2023

MARK	REVISIONS	DATE

MARK	REVISIONS	DATE

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PREPARED BY:

110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

ASHLEY ORSABA-FINDERS, SENIOR ENGINEER

06/12/24 DATE



MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: *Chris Nguyen* DATE: 6/26/24
 AOF

TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: *Thomas Bustamonte* DATE: 6/26/24
 Thomas Bustamonte, P.E., SUPERVISING ENGINEER

DRAWN BY: JP
 CHECKED BY: LK

APPROVED BY: *Mervat Mikhail* DATE: 6/26/2024
 Mervat Mikhail, P.E., DEPUTY DIRECTOR

DRAINAGE PROFILES
 SCALE: 1"=5'

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

BIG BEAR AREA

ROAD NO. _____

W.O. NO. H15055

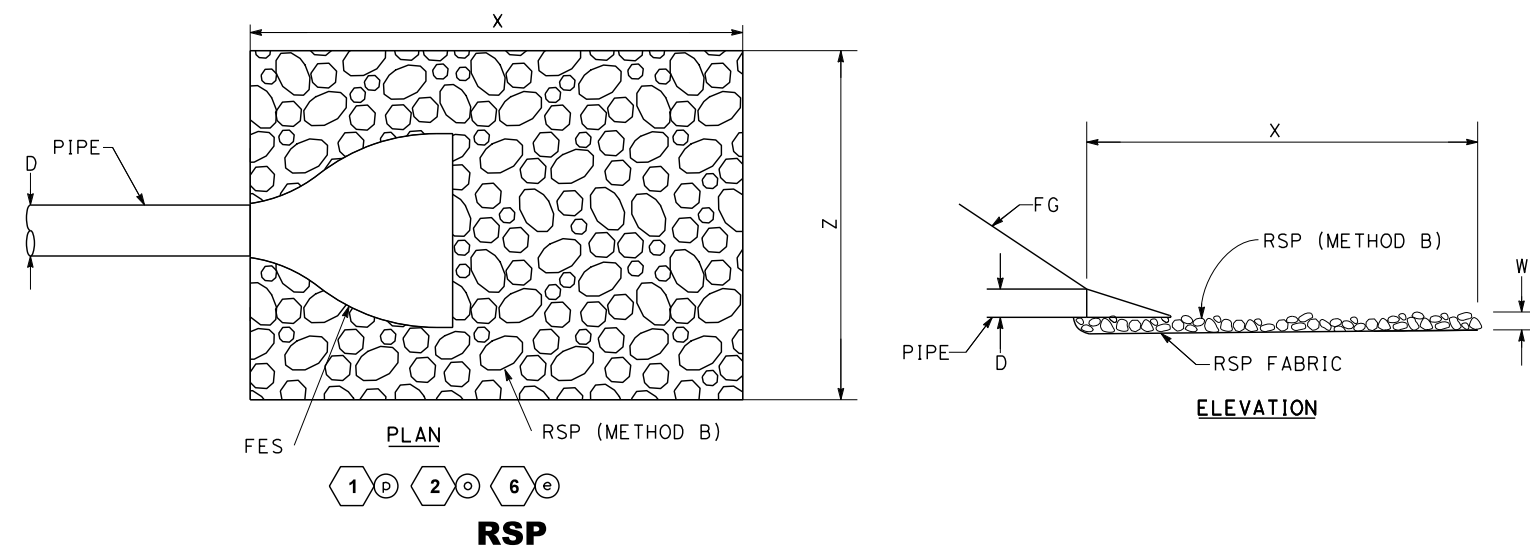
SHEET 32 OF 72

DP-1

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TBMP MARKER NOTES:

1. PLACE TBMP MARKERS ALONG PERPENDICULAR LINE FROM START AND END LOCATIONS.
2. PLACE TBMP MARKERS 1' FROM EDGE OF HP OR AS DIRECTED BY THE ENGINEER.
3. FOR DETAILS ON TMBP MARKERS NOT SHOWN, REFER TO RSP PLAN A73B.



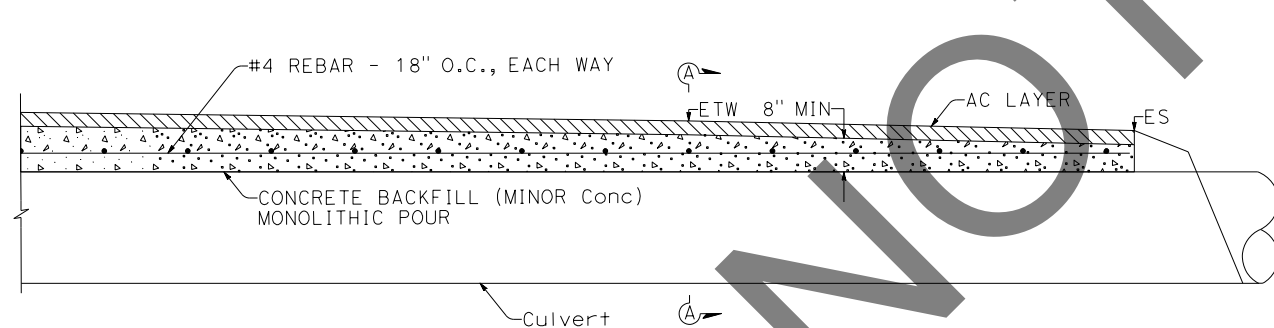
RSP DIMENSIONS

SYSTEM No.	UNIT No.	D (FT)	W (FT)	X (FT)	Z (FT)	RSP TYPE
1	p	2.0	1.2	12	6	CLASS I
2	o	2.0	1.2	26	6	CLASS I
6	e	2.0	1.2	3	6	CLASS I

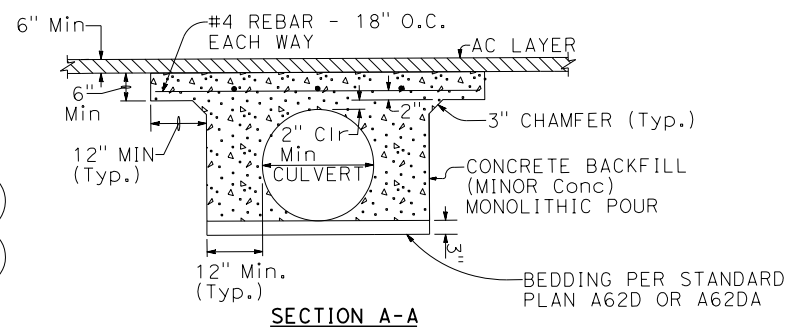
TBMP MARKER QUANTITIES

QUANTITY	SIDE		STENCIL INFORMATION			LOCATION		BMP TYPE
	Rt	Lt	COUNTY	ROUTE	PM	NORTHING	EASTING	
1	X		SBD	38	52.09	191966.18	6898083.47	DESIGN POLLUTION PREVENTION INFILTRATION AREA
1	X		SBD	38	52.050	1919674.64	6898248.54	DESIGN POLLUTION PREVENTION INFILTRATION AREA
1	X		SBD	38	51.89	1919612.46	6898490.44	BIOSWALE
1	X		SBD	38	51.86	1919760.13	6898610.13	BIOSWALE
1	X		SBD	38	51.926	19191677.26	6898270.18	48" CSP SAND TRAP
1	X		SBD	38	51.928	1919676.62	6898258.40	48" CSP SAND TRAP
1	X		SBD	38	51.90	1919640.88	6899397.91	48" CSP SAND TRAP
1	X		SBD	38	51.90	1919634.33	6898400.37	48" CSP SAND TRAP
Total	8							

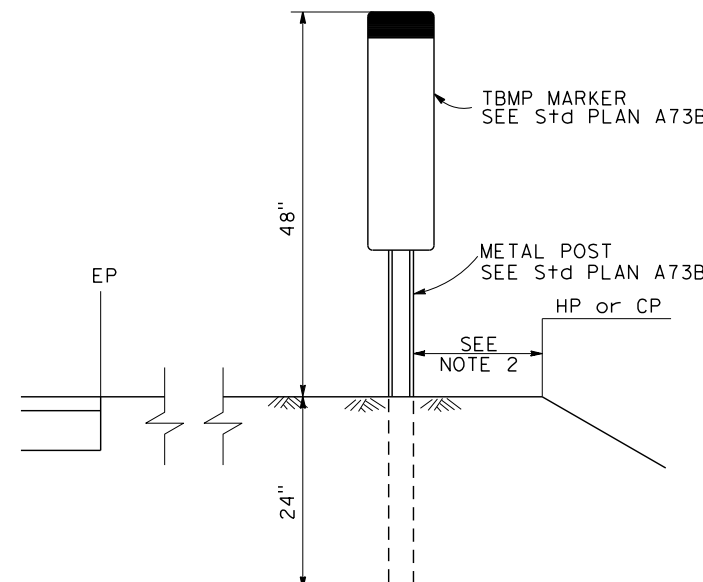
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CONCRETE BACKFILL



SECTION A-A



TBMP MARKER
NOT TO SCALE

DD-1

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MARK	REVISIONS	APPR.	DATE

Underground Service Alert

 Call: 811
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK
 S.B.CO BRASS DISK STAMPED 63-1-12
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 SOUTHERLY FROM HWY 38 & 0.15 MILES
 EASTERLY FROM INTERSECTION HWY 38 &
 STANFIELD CUTOFF AS SHOWN PER SPSN
 00271. NGVD-29 ELEVATION = 6789.402

PREPARED BY:

 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
 ASHLEY ORSABA-FINDERS, SENIOR ENGINEER
 06/12/24 DATE

MARK	REVISIONS	APPR.	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DATE: 6/26/24
 AOF
 TRANSPORTATION DESIGN ENGINEERING MANAGER

DRAWN BY: JP
 CHECKED BY: LK

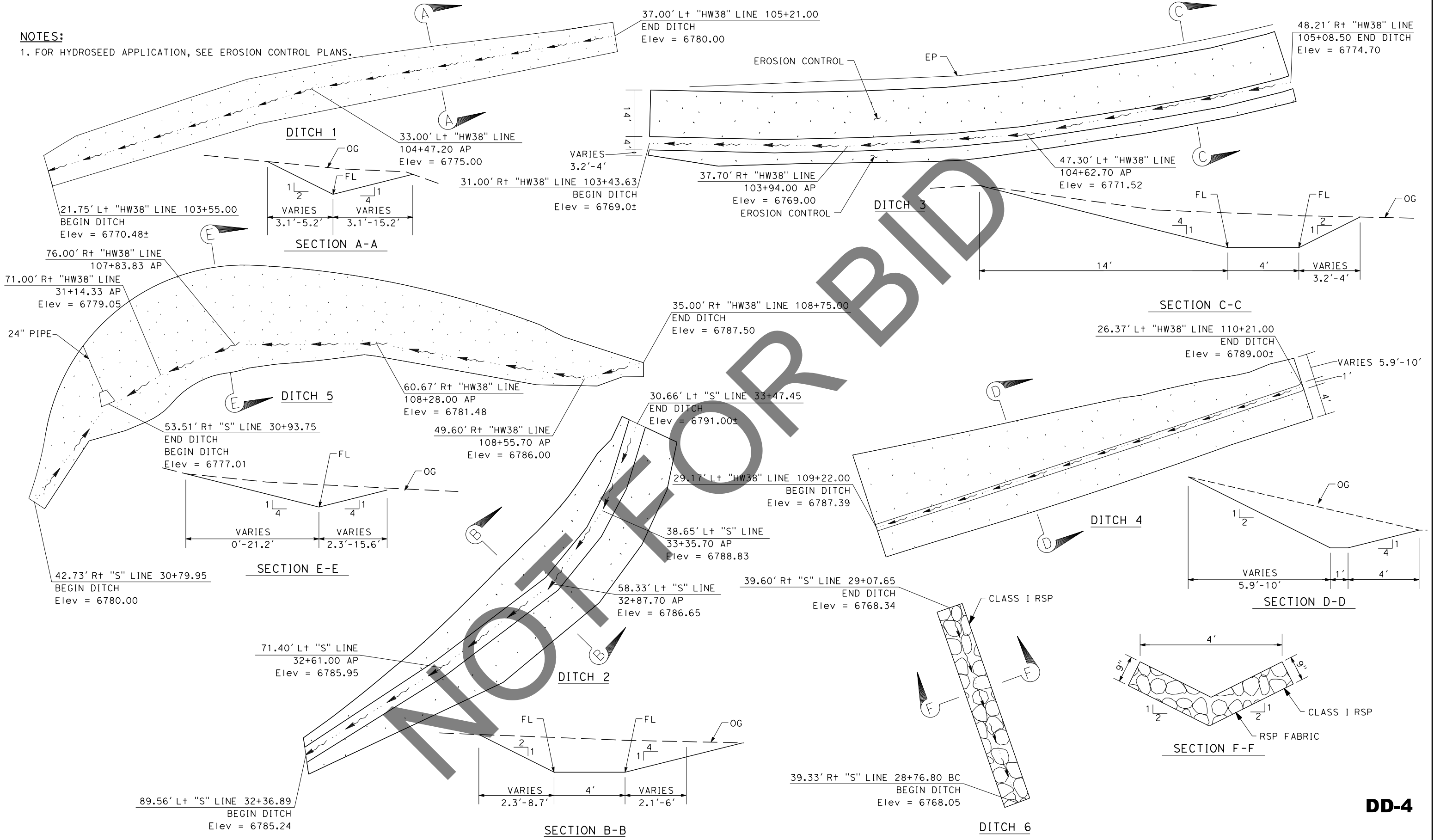
APPROVED BY: DATE: 6/26/24
 THOMAS BUSTAMONTE, P.E.
 SUPERVISING ENGINEER

APPROVED BY: DATE: 6/26/2024
 MERVAT MIRHAIL, P.E.
 DEPUTY DIRECTOR

DRAINAGE DETAILS
 SCALE: 1"=10'
 STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT
 BIG BEAR AREA

ROAD NO.
 W.O. NO.
 H15055
 SHEET 34 OF 72

NOTES:
 1. FOR HYDROSEED APPLICATION, SEE EROSION CONTROL PLANS.



REVISION 01/12/2023

MARK	DATE	REVISIONS

Underground Service Alert+

Call: 811

TWO WORKING DAYS BEFORE YOU DIG

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PREPARED BY:

DOKKEN ENGINEERING
 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

Ashley Orsaba-Finders, Senior Engineer
 06/12/24

MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: CHRIS NGUYEN, P.E. DATE: 6/26/24
 TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: Thomas Bustamonte DATE: 6/26/24
 SUPERVISING ENGINEER

DRAWN BY: JP
 CHECKED BY: LK
 DATE: 6/26/2024

DRAINAGE DETAILS
 NO SCALE

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

BIG BEAR AREA

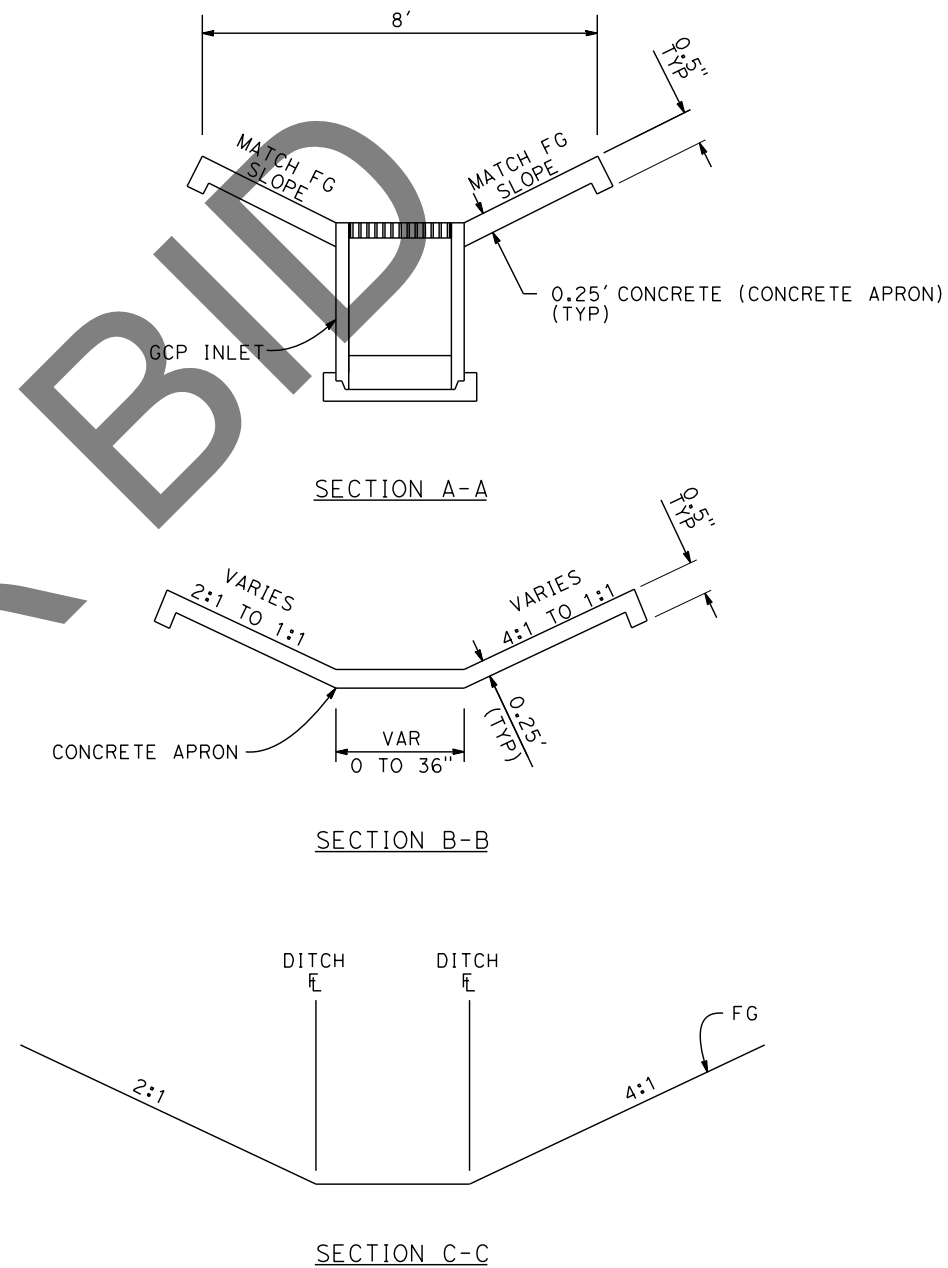
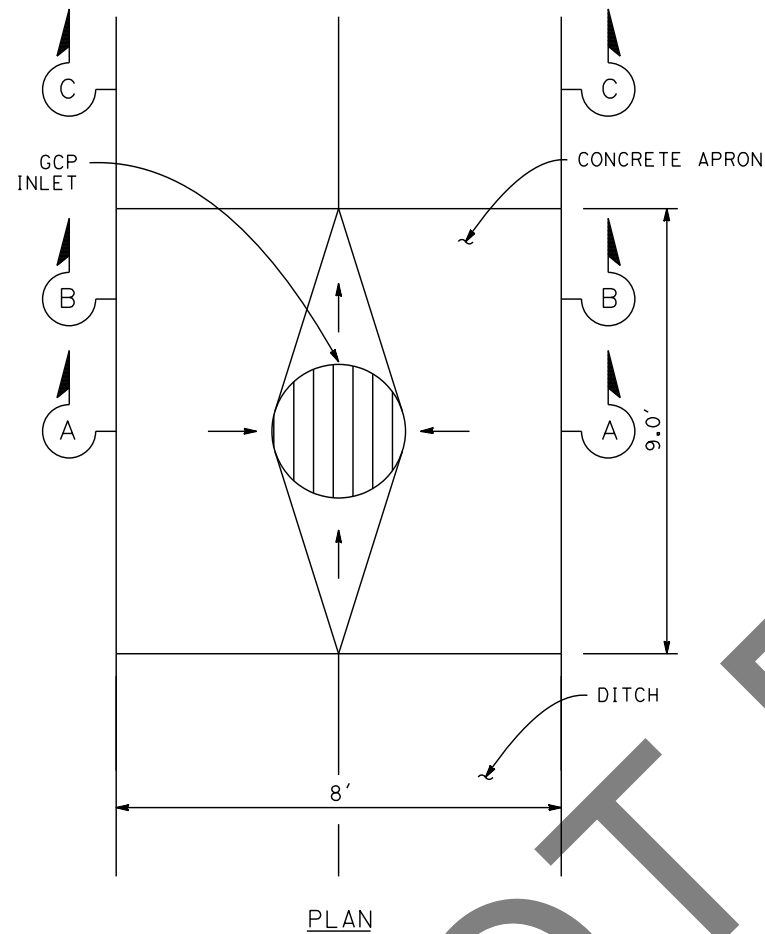
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 SHEET 37 OF 72

DD-4

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REVISION 01/12/2023

MARK	REVISIONS	APPR.	DATE



NOT FOR BIDD

GCP INLET - CONCRETE APRON

1 e 2 k

DD-5

Underground Service Alert+



Call: 811

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PREPARED BY:



Ashley Orsaba-Finders, Senior Engineer
 06/12/24 DATE



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SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

Chris Nguyen, P.E.
 TRANSPORTATION DESIGN ENGINEERING MANAGER
 6/26/24 DATE

Thomas Bustamonte
 SUPERVISING ENGINEER
 6/26/24 DATE

DESIGNED BY: AOF
 DRAWN BY: JP
 CHECKED BY: LK

APPROVED BY: Mervat Mirhail
 DEPUTY DIRECTOR
 6/26/2024 DATE

DRAINAGE DETAILS
 NO SCALE

STATE HIGHWAY 38
 STANFIELD CUTOFF
 ROUNDABOUT

BIG BEAR AREA

ROAD NO.

W.O. NO.
 H15055

SHEET 38 OF 72


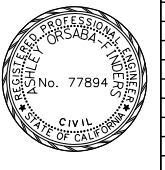
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REVISION 01/12/2023

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE PIPE	REMOVE INLET	DRAINAGE INLET MARKER	REINFORCED CONCRETE PIPE	REINFORCED CONCRETE PIPE	MINOR CONCRETE (BACKFILL)	CONCRETE FLARED END SECTION	MISCELLANEOUS IRON AND STEEL	STRUCTURAL CONCRETE, DRAINAGE INLET	CONCRETE (CONCRETE APRON)	48" CORRUGATED STEEL PIPE (1.09" THICK)	36" PRECAST CONCRETE PIPE INLET	MINOR CONCRETE (MINOR STRUCTURE)	CLASS 2 AGGREGATE BASE	ROCK SLOPE PROTECTION (20 lb, C10ss 1, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	HOT MIX ASPHALT (TYPE A)	UNDER SIDEWALK DRAIN	TREATMENT BEST MANAGEMENT PRACTICE MARKER	4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	HEIGHT OF INLET	GRATE 24-12x	GRATE 36-R	1/4" CHECKERED PLATE COVER	DESCRIPTION	STATION	DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT		
			LF	EA		EA	LF		LF															CY	EA	LB	CY						CY	LF
D-1	1	a			1					946	2.5													5.3	2			GDO DI	15.26' Rt "S" 33+19.18	D-1	1	a		
D-1	1	b				40.6																							18" RCP		D-1	1	b	
D-1	1	c			1					946	2.8														6.2	2			GDO DI	30.65 Lt "S" 33+26.92	D-1	1	c	
D-1	1	d					86.4																						24" RCP		D-1	1	d	
D-1	1	e			1					236		14		4.3	0.5										4.3		1		GCP	88.12' Lt "S" 32+41.15	D-1	1	e	
D-1	1	f					5.7																						24" RCP		D-1	1	f	
D-1	1	g			1					946	2.1														4.2	2			GDO DI	40.35' Lt "HW38" 106+24.89	D-1	1	g	
D-1	1	h					86.2	6.5																					24" RCP		D-1	1	h	
D-1	1	i			1					946	2.2														4.4	2			GDO DI	30.88' Lt "HW38" 105+36.95	D-1	1	i	
D-1	1	j					16.0	4.9																					24" RCP		D-1	1	j	
D-1	1	k			1					239	2.8														4.9	1			G2 DI	9.60' Lt "HW38" 105+44.54	D-1	1	k	
D-1	1	l					45																						24" RCP		D-1	1	l	
D-1	1	m					3.0			542			9.7		0.4	0.5		3					1	5	9.7		1	1	48" CSP	48.41' Rt "HW38" 105+25.53	D-1	1	m	
D-1	1	n																											24" RCP		D-1	1	n	
D-1	1	o								542			9.8		0.4	0.5		3					1	5	9.8		1	1	48" CSP	48.04' Rt "HW38" 105+18.54	D-1	1	o	
D-1	1	p															3.2	12											RSP/RSP Fabric		D-1	1	p	
D-1	1	q																					2						DPPIA		D-1	1	q	
D-1	1	r			1					239	2.9														5.3	1			G2 DI	8.12' Lt "HW38" 106+61.71	D-1	1	r	
D-1	1	s					113.3																						24" RCP		D-1	1	s	
D-1	1	t													0.6														MINOR Conc		D-1	1	t	
D-1	1	u					24.2																						24" RCP		D-1	1	u	
D-1	1	v						1																					FES	44.59' Rt "HW38" 105+14.75	D-1	1	v	
D-1	2	a			1					239	3.0														5.5	1			G2 DI	12.17' Rt "HW38" 107+45.09	D-1	2	a	
D-1	2	b					55.2																						24" RCP		D-1	2	b	
D-1	2	c			1					946	2.4														4.9	2			GDO DI	50.75' Rt "S" 31+53.02	D-1	2	c	
D-1	2	d					60.1																						24" RCP		D-1	2	d	
D-1	2	e			1					946	2.2														4.5	2			GDO DI	14.16' Lt "S" 31+67.31	D-1	2	e	
D-1	2	f					39.9																						24" RCP		D-1	2	f	
D-1	2	g								542			9.5		0.2	0.5		3					1	5	9.5		1	1	48" CSP	32.06' Lt "S" 31+30.25	D-1	2	g	
D-1	2	h					3.0																						24" CSP		D-1	2	h	
D-1	2	i								542			9.2		0.2	0.5		3					1	5	9.2		1	1	48" CSP	32.06' Lt "S" 31+23.22	D-1	2	i	
D-1	2	j					9.8																						24" RCP		D-1	2	j	
D-1	2	k			1					239		14		3.1	0.4										3.1		1		GCP DI	29.13' Lt "HW38" 109+19.75	D-1	2	k	
D-1	2	l					125.6																						24" RCP		D-1	2	l	
D-1	2	m								239	3.0														5.5	1			G2 DI	9.48' Rt "HW38" 107+96.03	D-1	2	m	
D-1	2	n					48.2																						24" RCP		D-1	2	n	
D-1	2	o															7.1	25.1											RSP/RSP Fabric		D-1	2	o	
D-1	2	p													2.2														Minor Conc		D-1	2	p	
D-1	2	q						1																					FES	39.14 Lt "S" 31+13.80	D-1	2	q	
D-1	3	a															1	5					1						Under Sidewalk Drain		D-1	3	a	
D-1	4	a															1	5					1						Under Sidewalk Drain		D-1	4	a	
D-1	4	b																	4	0.46								Overside Drain		D-1	4	b		
D-1	5	a			1																								Exist Inlet	15.70' Lt "HW38" 106+51.11	D-1	5	a	
D-1	5	b			100																								Exist Pipe		D-1	5	b	
D-1	6	a						1																					FES	48.57' Lt "S" 30+97.11	D-1	6	a	
D-1	6	b					103.9	20																					24" RCP		D-1	6	b	
D-1	6	c						1																					FES	55.31' Rt "S" 30+95.14	D-1	6	c	
D-1	6	d																											BIOSWALE		D-1	6	d	
D-1	6	e															1.8	4.9					2						RSP/RSP Fabric		D-1	6	e	
D-1	7	a			16																								Exist Pipe		D-1	7	a	
D-1	7	b															4.1	21											RSP/RSP Fabric		D-1	7	b	
Total			116	1	11	40.6	825.5	31	4	9275	25.9	28	38.2	7.4	5	2	18.2	85	4	0.5	2	8	20		16	6	4							

DRAINAGE QUANTITIES

DQ-1

 <p>Underground Service Alert Call: 811</p>	<p>BENCHMARK S.B.CO BRASS DISK STAMPED 63-1-12 1975 ON TOP OF CURB. +/- 28" SOUTHERLY FROM HWY 38 & 0.15 MILES EASTERLY FROM INTERSECTION HWY 38 & STANFIELD CUTOFF AS SHOWN PER SPSP 00271. NGVD-29 ELEVATION = 6789.402</p>	<p>PREPARED BY: DOKKEN ENGINEERING 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642 Ashley Orsaba-Finders, Senior Engineer 06/12/24</p>		<p>MARK</p>	<p>REVISIONS</p>	<p>APPR DATE</p>	<p>SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p>			<p>DRAINAGE QUANTITIES NO SCALE</p>			<p>ROAD NO.</p>
				<p>DESIGNED BY: AOF DATE: 6/26/24</p>	<p>DRAWN BY: JP DATE: 6/26/24</p>	<p>CHECKED BY: LK DATE: 6/26/2024</p>	<p>STATE HIGHWAY 38 STANFIELD CUTOFF ROUNDABOUT</p>			<p>W.O. NO. H15055</p>			
<p>TWO WORKING DAYS BEFORE YOU DIG</p>							<p>APPROVED BY: Mervat Mikhail, P.E. DEPUTY DIRECTOR DATE: 6/26/2024</p>			<p>BIG BEAR AREA</p>			<p>SHEET 39 OF 72</p>