

COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

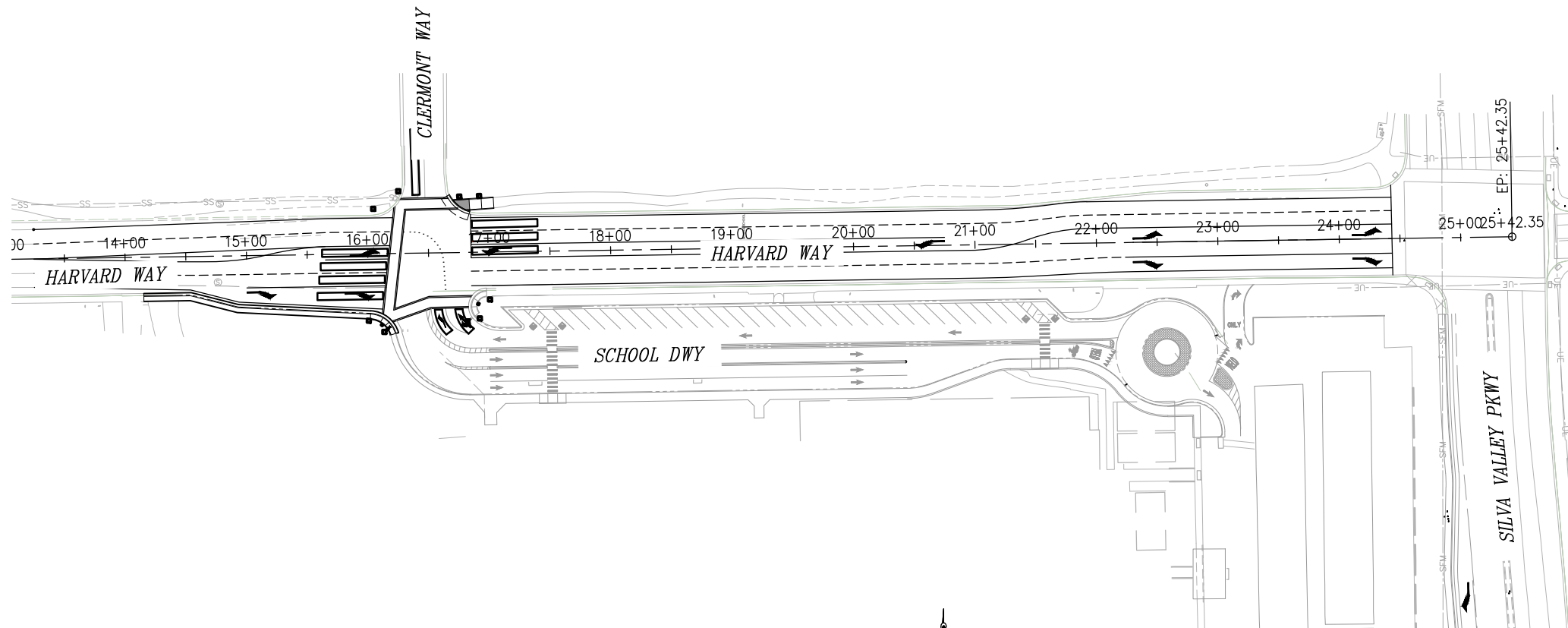
PROJECT PLANS FOR THE CONSTRUCTION OF HARVARD WAY AT CLERMONT WAY INTERSECTION IMPROVEMENTS

IN THE COUNTY OF EL DORADO, DISTRICT 1
ON HARVARD WAY FROM CLERMONT WAY TO SILVA VALLEY PARKWAY

To be supplemented with Standard Plans and Specifications dated 2022, including
the 2022 Revised Standard Specifications, of the California Department of
Transportation, unless otherwise noted.

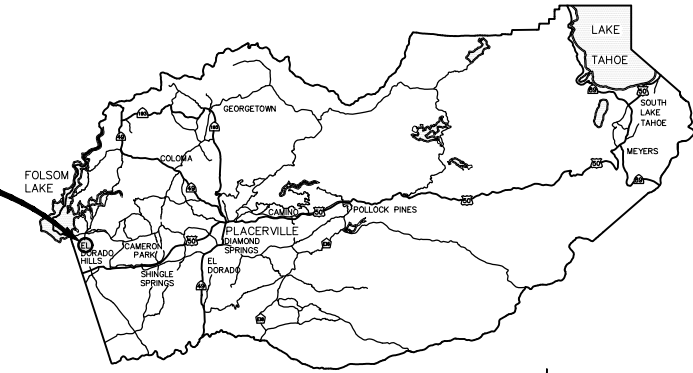
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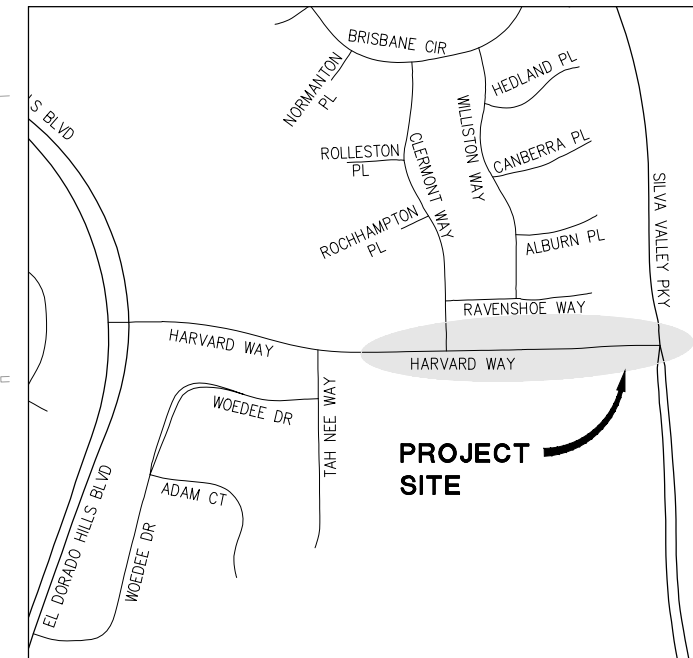


SITE PLAN
1"=60'

SITE LOCATION



VICINITY MAP
COUNTY OF EL DORADO



LOCATION MAP
NOT TO SCALE

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans. Failure of the successful Bidder to obtain proper and adequate licensing at the time bids are submitted shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

REVISIONS

MARK	DATE	BY



BOARD OF SUPERVISORS

JOHN HIDAHL	I
GEORGE TURNBOO	II
WENDY THOMAS	III
LORI PARLIN	IV
BROOKE LAINE	V

**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

(530) 621-5900
2850 FAIRLANE CT
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:

WENDY THOMAS CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS	DATE
APPROVED BY:	DATE
RAFAEL MARTINEZ, DIRECTOR DEPARTMENT OF TRANSPORTATION	DATE
MATTHEW D. SMELTZER, P.E., NO. C06832 DEPUTY DIRECTOR, ENGINEERING	DATE

CONTRACT NO. 8045 CIP NO. 36105080

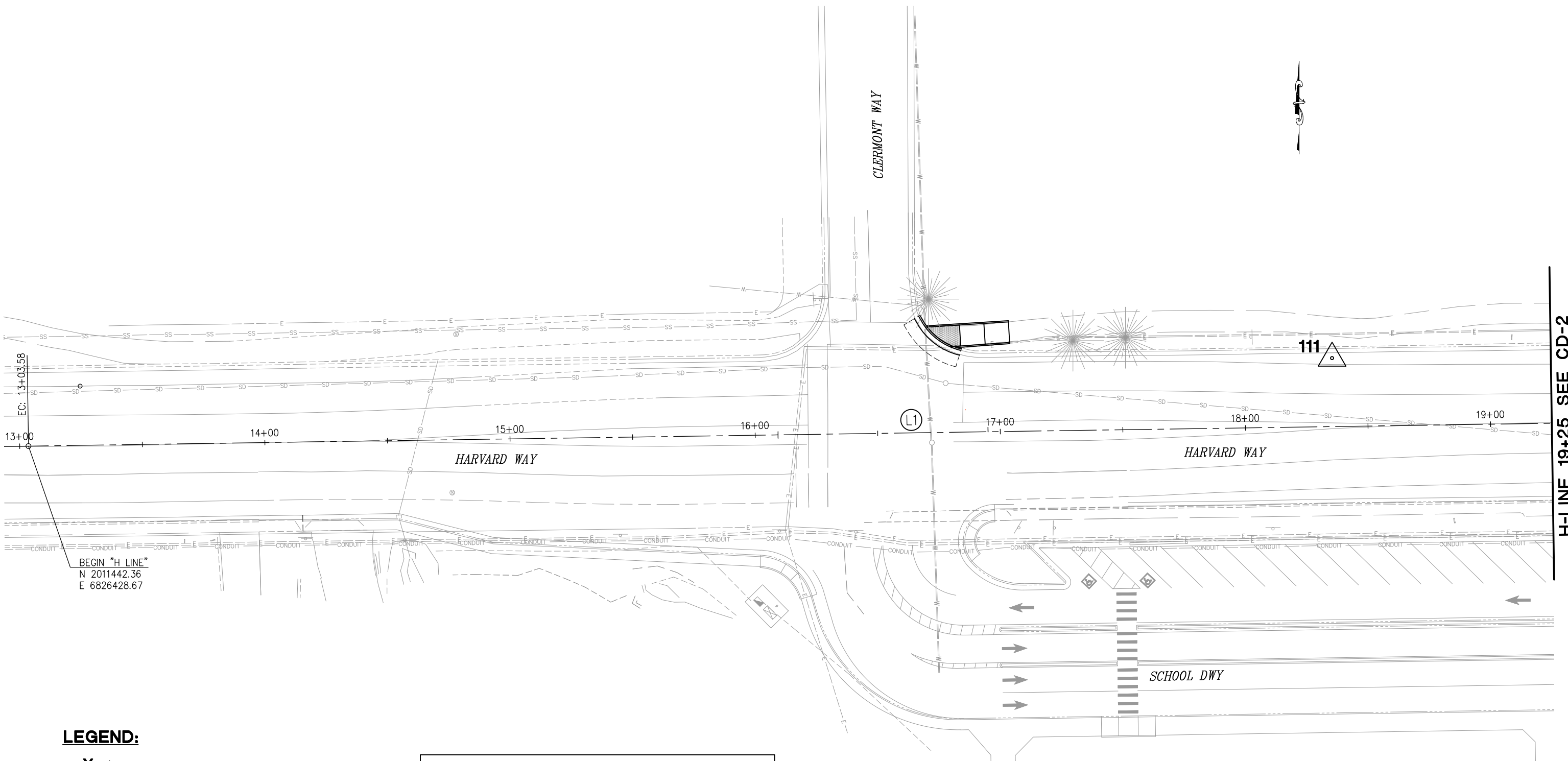
HARVARD WAY AT CLERMONT WAY

TITLE SHEET

SHEET **1** OF **20**

SUBMITTED BY: _____ DATE: _____
CIVIL ENGINEER
STATE OF CALIFORNIA NO. _____

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION



LEGEND:

X DENOTES CONTROL POINT AND NUMBER.

H LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	1238.78		N 89° 08' 34" E	

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: AN
 DRAWN: AN
 CHECKED: JB
 DATE: 1/29/2024
 ROAD NUMBER: 1103



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

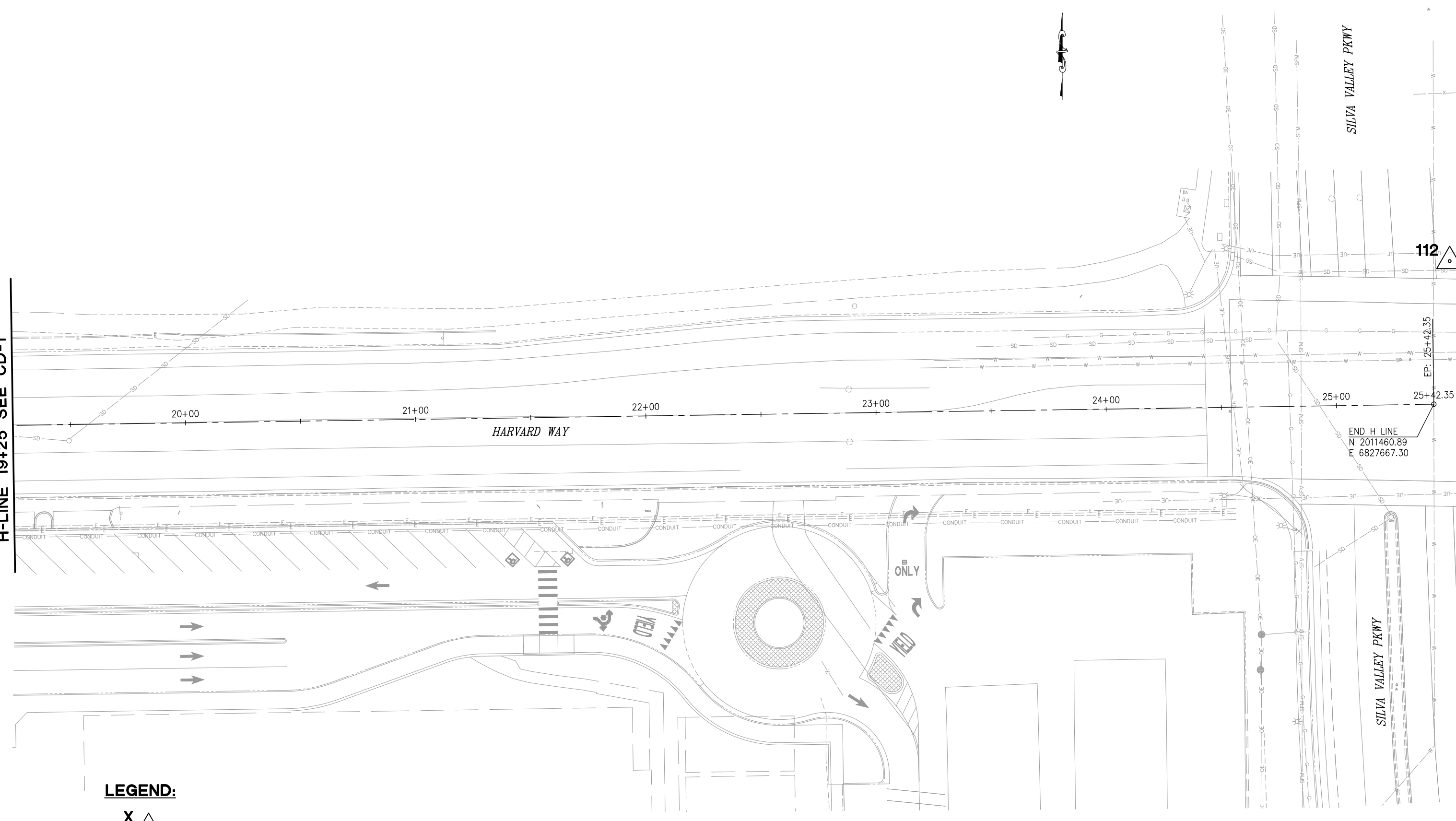
SHEET
CD-1
 2 OF 20
 CONTRACT NO.
36105080

SURVEY CONTROL DIAGRAM
SCALE : 1"=20'

H-LINE 19+25 SEE CD-2

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
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H-LINE 19+25 SEE CD-1



LEGEND:
 X DENOTES CONTROL POINT AND NUMBER.

SURVEY CONTROL DIAGRAM
 SCALE : 1"=20'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: AN	DRAWN: AN
REGISTERED CIVIL ENGINEER	CHECKED: JB	DATE: 1/29/2024
DATE:	ROAD NUMBER: 1103	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

SHEET	CD-2
3 OF 20	
CONTRACT NO.	36105080

ORIGINAL SCALE IS IN INCHES
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 REVISION

GENERAL NOTES:

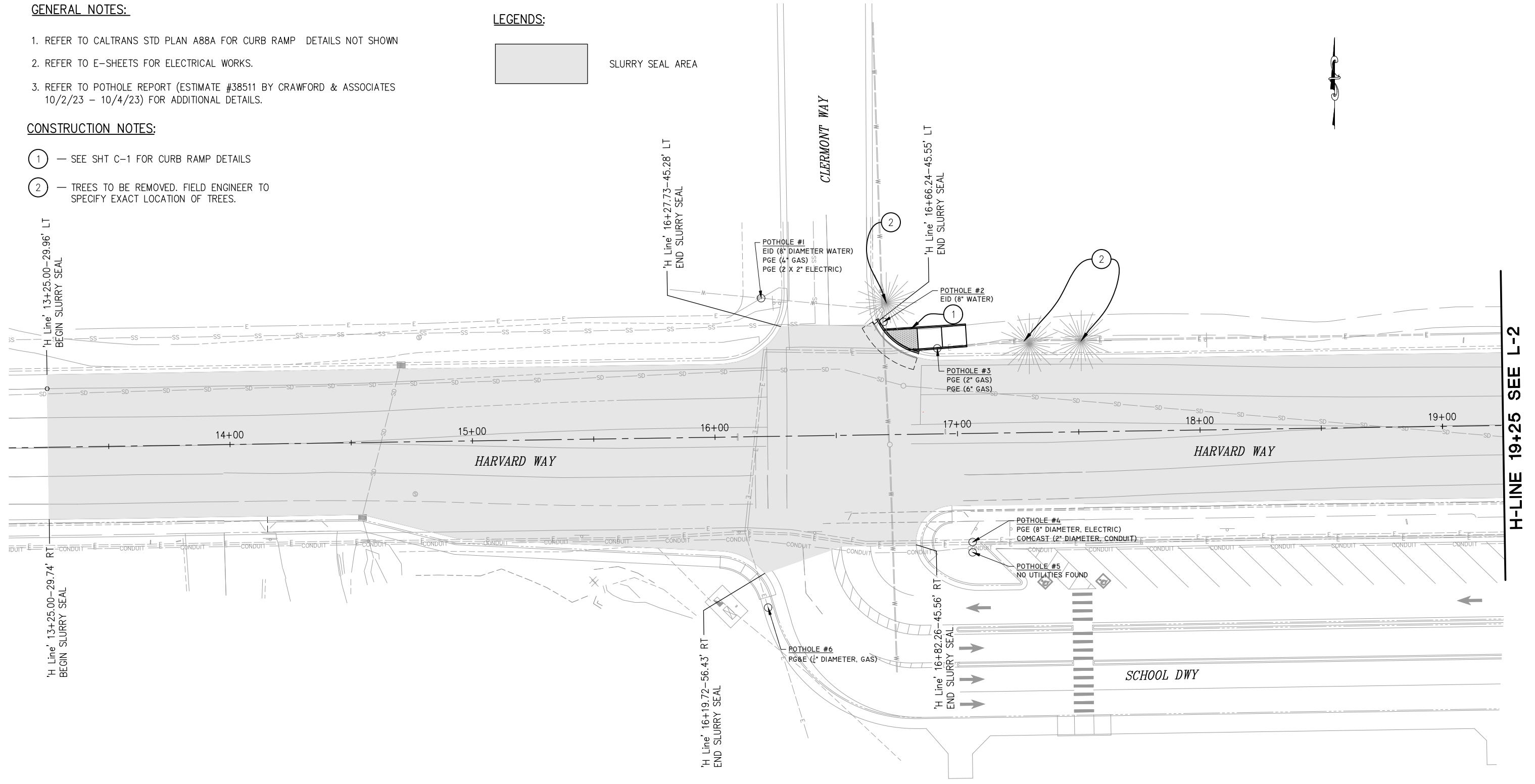
1. REFER TO CALTRANS STD PLAN A88A FOR CURB RAMP DETAILS NOT SHOWN
2. REFER TO E-SHEETS FOR ELECTRICAL WORKS.
3. REFER TO POTHOLE REPORT (ESTIMATE #38511 BY CRAWFORD & ASSOCIATES 10/2/23 - 10/4/23) FOR ADDITIONAL DETAILS.

LEGENDS:



CONSTRUCTION NOTES:

- ① — SEE SHT C-1 FOR CURB RAMP DETAILS
- ② — TREES TO BE REMOVED. FIELD ENGINEER TO SPECIFY EXACT LOCATION OF TREES.



H-LINE 19+25 SEE L-2

2
1
0
FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: AN	DRAWN: AN
REGISTERED CIVIL ENGINEER	CHECKED: JB	DATE: 1/29/2024
DATE:	ROAD NUMBER: 1103	



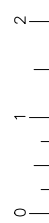
**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

HARVARD WAY AT CLERMONT WAY

LAYOUT
SCALE : 1"=20'

SHEET
L-1
4 OF 20
CONTRACT NO.
36105080

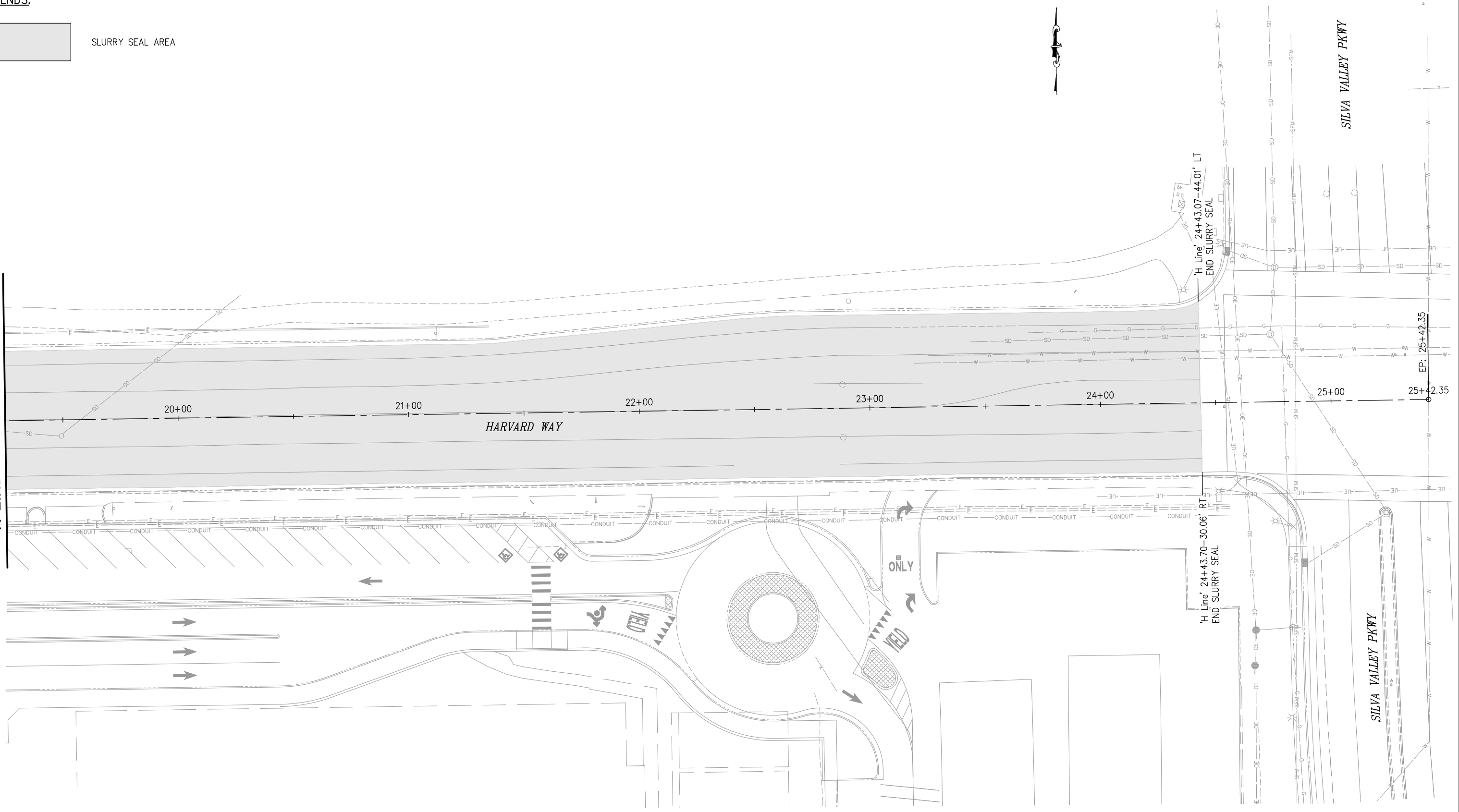
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LEGENDS:


 SLURRY SEAL AREA

H-LINE 19+25 SEE L-1



LAYOUT SCALE : 1"=20'

REVISION	NUMBER	DATE	DESCRIPTION	BY

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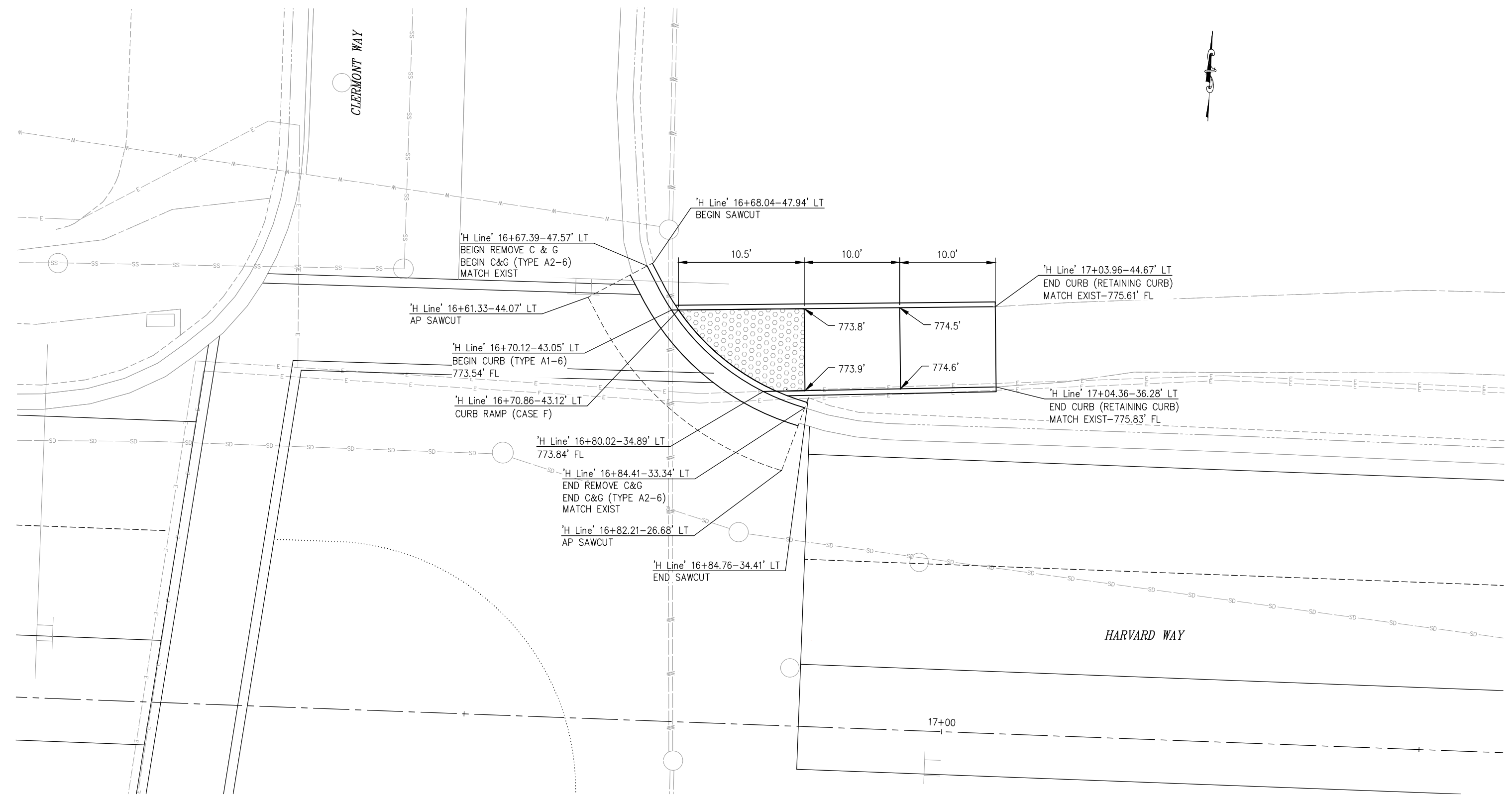


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

SHEET
L-2
 5 OF 20
 CONTRACT NO.
36105080

ORIGINAL SCALE IS IN INCHES
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CONTRACTOR SHALL POSITIVELY DETERMINE ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN ON THE CONTRACT PLANS OR IDENTIFIED VIA USA MARKINGS PRIOR TO CONSTRUCTION OF ANY DRAINAGE SYSTEM COMPONENT.

- CONSTRUCTION NOTES**
- ENGINEER FIELD ADJUSTMENTS AS NEEDED
 - MATCH GRADE AT EXISTING SIDEWALK

**CONSTRUCTION DETAILS
SCALE : 1"=4'**

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: AN	DRAWN: AN
REGISTERED CIVIL ENGINEER	CHECKED: JB	DATE: 1/29/2024
DATE:	ROAD NUMBER: 1103	



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

HARVARD WAY AT CLERMONT WAY

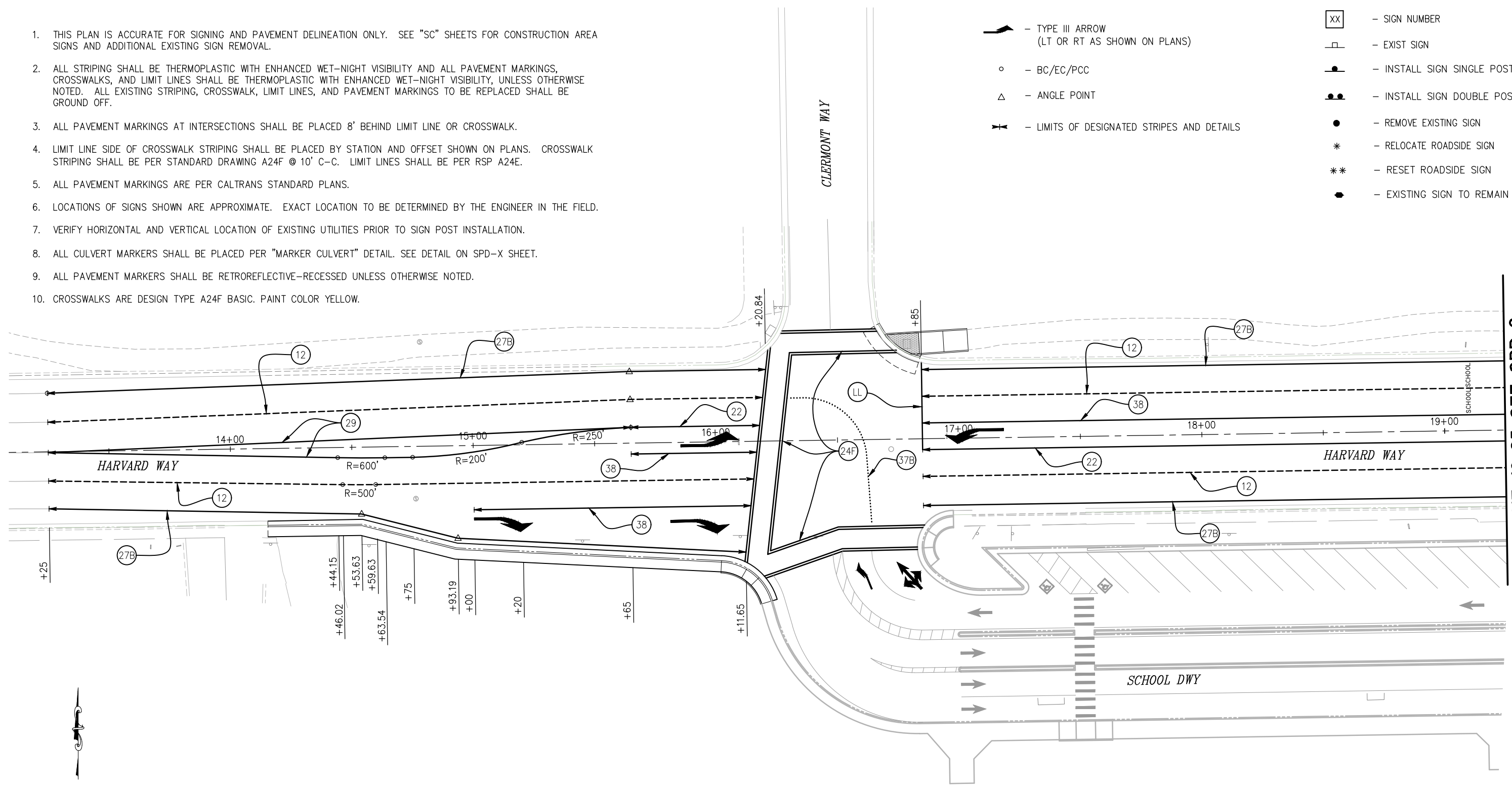
SHEET	C-1
6 OF 20	
CONTRACT NO.	36105080

CONSTRUCTION NOTES:

1. THIS PLAN IS ACCURATE FOR SIGNING AND PAVEMENT DELINEATION ONLY. SEE "SC" SHEETS FOR CONSTRUCTION AREA SIGNS AND ADDITIONAL EXISTING SIGN REMOVAL.
2. ALL STRIPING SHALL BE THERMOPLASTIC WITH ENHANCED WET-NIGHT VISIBILITY AND ALL PAVEMENT MARKINGS, CROSSWALKS, AND LIMIT LINES SHALL BE THERMOPLASTIC WITH ENHANCED WET-NIGHT VISIBILITY, UNLESS OTHERWISE NOTED. ALL EXISTING STRIPING, CROSSWALK, LIMIT LINES, AND PAVEMENT MARKINGS TO BE REPLACED SHALL BE GROUND OFF.
3. ALL PAVEMENT MARKINGS AT INTERSECTIONS SHALL BE PLACED 8' BEHIND LIMIT LINE OR CROSSWALK.
4. LIMIT LINE SIDE OF CROSSWALK STRIPING SHALL BE PLACED BY STATION AND OFFSET SHOWN ON PLANS. CROSSWALK STRIPING SHALL BE PER STANDARD DRAWING A24F @ 10' C-C. LIMIT LINES SHALL BE PER RSP A24E.
5. ALL PAVEMENT MARKINGS ARE PER CALTRANS STANDARD PLANS.
6. LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
7. VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO SIGN POST INSTALLATION.
8. ALL CULVERT MARKERS SHALL BE PLACED PER "MARKER CULVERT" DETAIL. SEE DETAIL ON SPD-X SHEET.
9. ALL PAVEMENT MARKERS SHALL BE RETROREFLECTIVE-RECESSED UNLESS OTHERWISE NOTED.
10. CROSSWALKS ARE DESIGN TYPE A24F BASIC. PAINT COLOR YELLOW.

LEGEND

- TYPE III ARROW (LT OR RT AS SHOWN ON PLANS)
- BC/EC/PCC
- ANGLE POINT
- LIMITS OF DESIGNATED STRIPES AND DETAILS
- SIGN NUMBER
- EXIST SIGN
- INSTALL SIGN SINGLE POST
- INSTALL SIGN DOUBLE POST
- REMOVE EXISTING SIGN
- RELOCATE ROADSIDE SIGN
- RESET ROADSIDE SIGN
- EXISTING SIGN TO REMAIN



ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION

NUMBER	DATE	DESCRIPTION	BY

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DATE:	ROAD NUMBER: 1103	

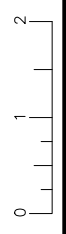
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

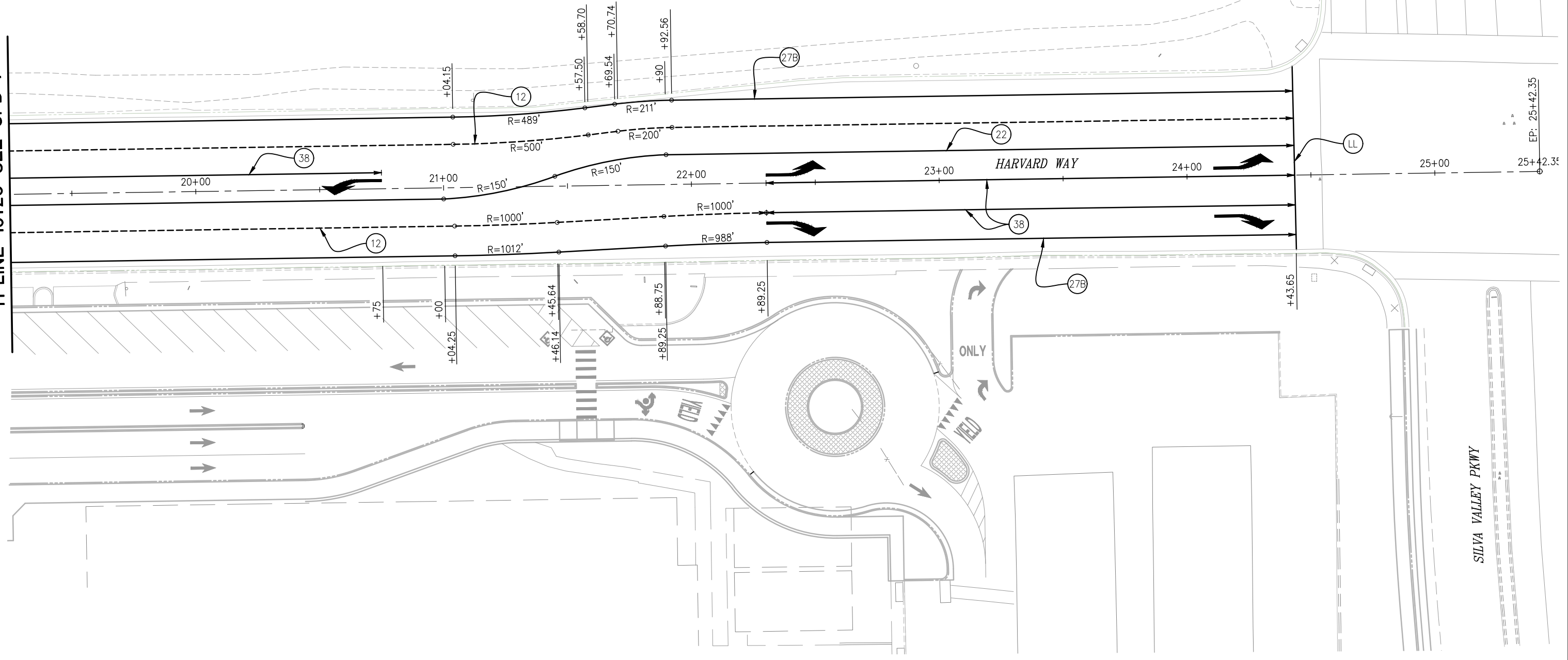
SHEET	SPD-1
7 OF 20	
CONTRACT NO.	36105080

PAVEMENT DELINEATION
SCALE : 1"=20'

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H-LINE 19+25 SEE SPD-1



PAVEMENT DELINEATION
SCALE : 1"=20'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: AN DRAWN: AN CHECKED: JB DATE: 1/29/2024 ROAD NUMBER: 1103
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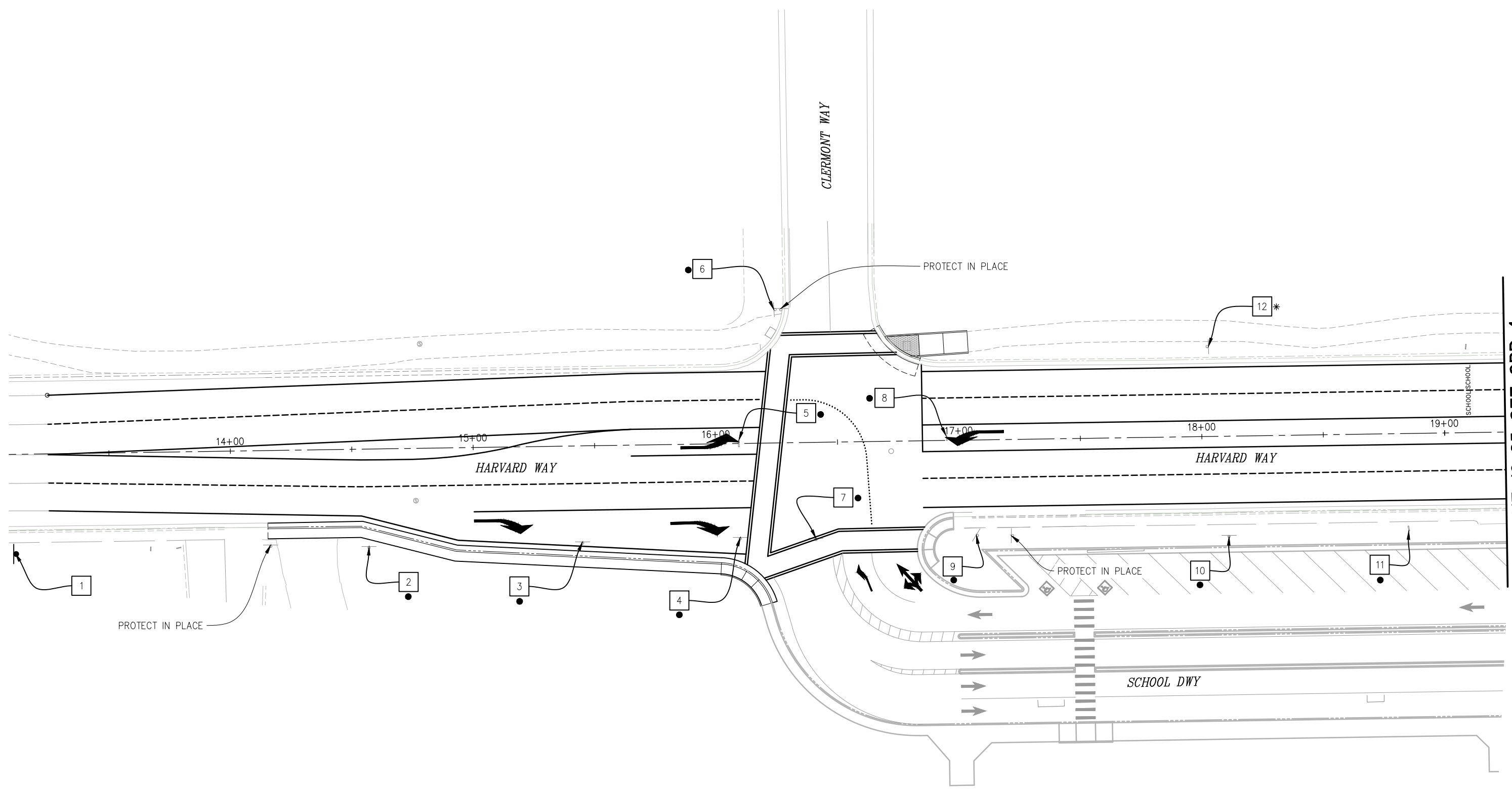


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

SHEET
SPD-2
 8 OF 20
 CONTRACT NO.
36105080

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
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REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: AN	DRAWN: AN
REGISTERED CIVIL ENGINEER	CHECKED: JB	DATE: 1/29/2024
DATE:	ROAD NUMBER: 1103	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

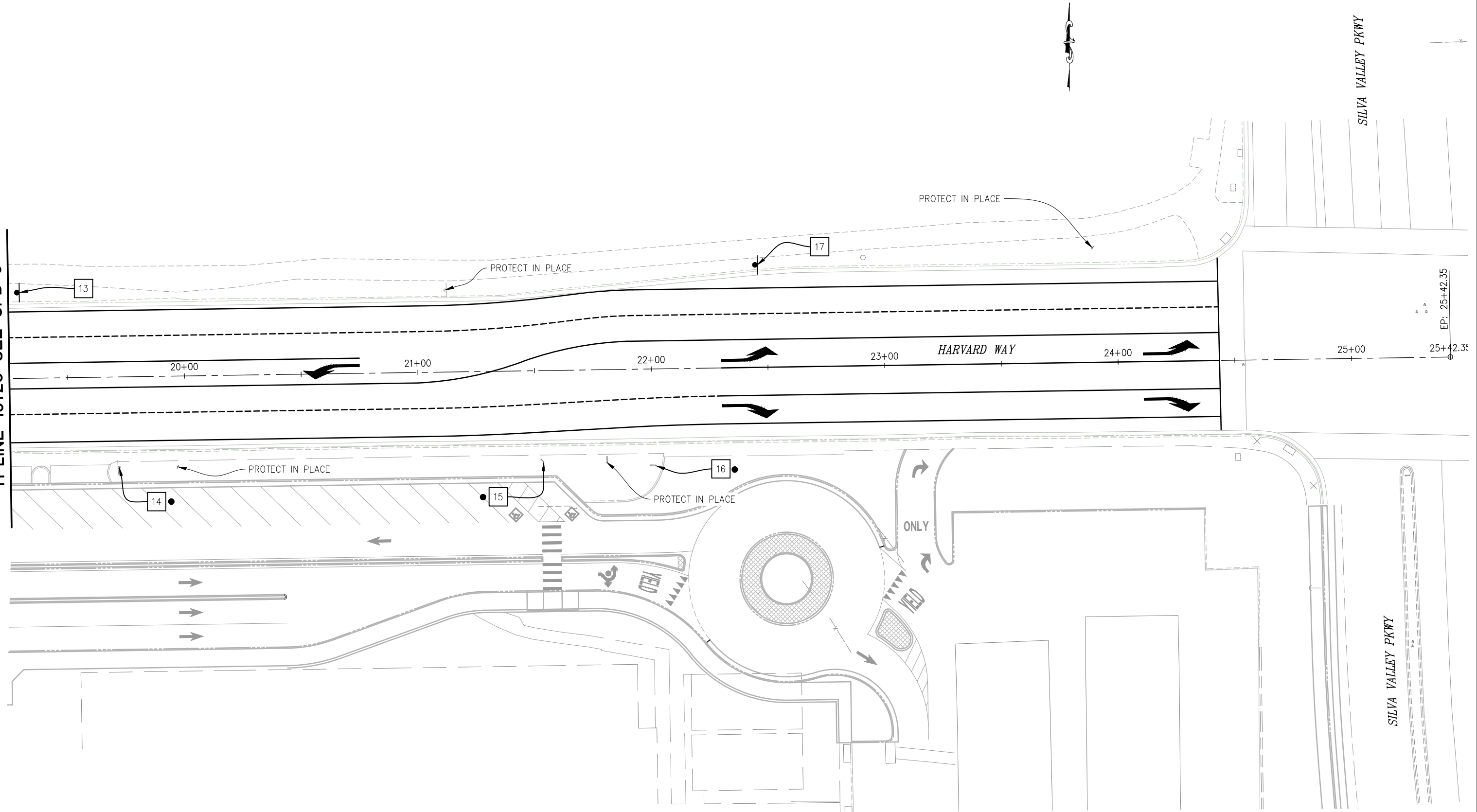
SIGNING DELINEATION
SCALE : 1"=20'

SHEET
SPD-3
 9 OF 20
 CONTRACT NO.
36105080

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FOR REDUCED PLANS
 0 1 2

H-LINE 19+25 SEE SPD-3



SIGNING DELINEATION
SCALE : 1"=20'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: AN CHECKED: JB ROAD NUMBER: 1103	DRAWN: AN DATE: 1/29/2024
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COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

SHEET
SPD-4
 10 OF 20
 CONTRACT NO.
36105080

SIGN QUANTITIES

SIGN No.	SIGN	CALIFORNIA MUTCD CODE	POST SIZE AND LENGTH			ROADSIDE SIGNS				EXISTING LOCATION	PROPOSED LOCATION (APPROXIMATE)	REMARKS
			WOOD	METAL POST	ONE POST (EA)	TWO POST (EA)	RELOCATE (EA)	REMOVE (EA)				
			4"x4"	6"x6"					2 1/2" x 2 1/2"			
1	SIGNAL AHEAD	W3-3		12		1				'H' 13+26 RT	'H' 13+67 RT	ENGINEER TO VERIFY LOCATION IN FIELD
2	NO STOPPING ANY TIME	R26(S) (CA)							1	'H' 14+48 RT		
3	NO STOPPING ANY TIME	R26(S) (CA)							1	'H' 15+47 RT		
4	STOP	R1-1							1	'H' 16+10 RT		
5	STOP	R1-1							1	'H' 16+10 LT		
	ALL WAY	R1-3P							1			
6	DO NOT ENTER	R5-1							1	'H' 16+24 LT		
	STOP	R1-1							1			
7	DO NOT ENTER	R5-1							1	'H' 16+41 RT		
	STOP	R1-1							1			
8	STOP	R1-1							1	'H' 16+88 LT		
	ALL WAY	R1-3P							1			
9	DO NOT ENTER	R5-1							1	'H' 17+07 RT		
	STOP	R1-1							1			
10	NO STOPPING ANY TIME	R26(S) (CA)							1	'H' 18+11 RT		
11	NO STOPPING ANY TIME	R26(S) (CA)							1	'H' 18+85 RT		
12	NO STOPPING ANY TIME	R26(S) (CA)			8			1		'H' 18+02 LT	'H' 18+90 LT	ENGINEER TO VERIFY LOCATION IN FIELD
13	SIGNAL AHEAD	W3-3		12		1				'H' 19+35 LT		ENGINEER TO VERIFY LOCATION IN FIELD
14	NO SIGN	-							1	'H' 19+72 RT		
15	NO STOPPING ANY TIME	R28(S) (CA)							1	'H' 21+54 RT		
16	DO NOT ENTER	R5-1							1	'H' 21+96 RT		
17	NO STOPPING ANY TIME	R26(S) (CA)			8	1					'H' 22+40 LT	ENGINEER TO VERIFY LOCATION IN FIELD
TOTAL						3	0	1	18			

PAVEMENT MARKINGS

DESCRIPTION	STANDARD DRAWING	COUNT (EA)	TOTAL AREA (SQFT)
LIMIT LINE	A24F	387	387
SCHOOL	A24D	2	70
TYPE II (B) ARROW	A24B	1	59
TYPE III (L) ARROW	A24B	6	252
TYPE III (R) ARROW	A24B	4	168
TOTAL			936

THERMOPLASTIC TRAFFIC STRIPE

STANDARD PLAN NO.	FROM	TO	6" WIDE HIGH VISIBILITY THERMOPLASTIC		PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)		
			WHITE (LT)	YELLOW (LT)	TYPE D (EA)	TYPE G (EA)	TYPE G (ONE-WAY CLEAR RETROREFLECTIVE) (EA)
DETAIL 12	'H' 13+25 E	'H' 16+16 E	291			8	
	'H' 13+25 W	'H' 16+18 W	293			8	
	'H' 16+85 E	'H' 22+30 E	545			13	
	'H' 16+85 W	'H' 24+43 W	758			18	
DETAIL 22	'H' 15+65	'H' 16+18		106	6		
	'H' 16+85	'H' 24+43		1520	66		
DETAIL 27B	'H' 13+25 E	'H' 16+12 E	288				
	'H' 13+25 W	'H' 16+20 W	296				
	'H' 15+65 E	'H' 24+43 E	759				
	'H' 15+65 E	'H' 24+43 E	758				
DETAIL 29	'H' 13+25 E	'H' 15+15 E		482	12		
	'H' 13+25 W	'H' 15+15 W		480	12		
DETAIL 37B	'H' 16+29	'H' 16+64	75				5
	'H' 15+00 E	'H' 16+14 E	114			6	
DETAIL 38	'H' 15+65 E	'H' 16+17 E	52			4	
	'H' 16+85 W	'H' 20+75 W	390			18	
	'H' 22+30 E	'H' 24+43 E	214			11	
	'H' 12+30 E	'H' 24+43 E	214			11	
	SUBTOTAL			5047	2588	96	97
TOTAL				7635		198	

SIGNING & PAVEMENT DELINEATION QUANTITIES NO SCALE

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: AN

DRAWN: AN

CHECKED: JB

DATE: 1/29/2024

ROAD NUMBER: 1103



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

HARVARD WAY AT CLERMONT WAY

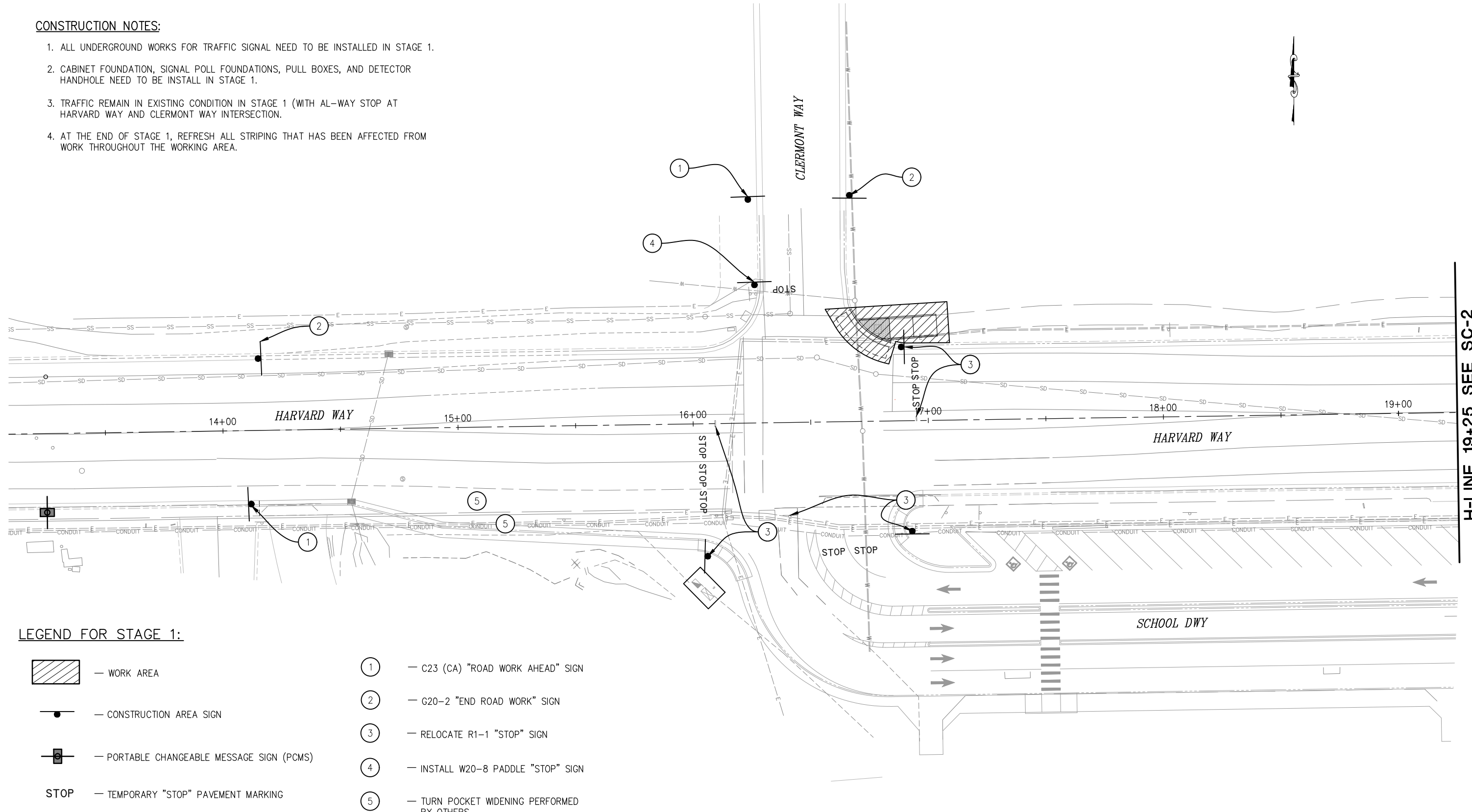
SHEET
SPD-5
11 OF 20
CONTRACT NO.
36105080

ORIGINAL SCALE (S IN INCHES) 2
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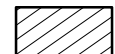








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 FOR REDUCED PLANS
 REVISION

CONSTRUCTION NOTES:

1. ALL UNDERGROUND WORKS FOR TRAFFIC SIGNAL NEED TO BE INSTALLED IN STAGE 1.
2. CABINET FOUNDATION, SIGNAL POLL FOUNDATIONS, PULL BOXES, AND DETECTOR HANDHOLE NEED TO BE INSTALL IN STAGE 1.
3. TRAFFIC REMAIN IN EXISTING CONDITION IN STAGE 1 (WITH AL-WAY STOP AT HARVARD WAY AND CLERMONT WAY INTERSECTION).
4. AT THE END OF STAGE 1, REFRESH ALL STRIPING THAT HAS BEEN AFFECTED FROM WORK THROUGHOUT THE WORKING AREA.



LEGEND FOR STAGE 1:

- | | | | |
|---|---|---|--|
|  | — WORK AREA |  | — C23 (CA) "ROAD WORK AHEAD" SIGN |
|  | — CONSTRUCTION AREA SIGN |  | — G20-2 "END ROAD WORK" SIGN |
|  | — PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) |  | — RELOCATE R1-1 "STOP" SIGN |
|  | — TEMPORARY "STOP" PAVEMENT MARKING |  | — INSTALL W20-8 PADDLE "STOP" SIGN |
| | |  | — TURN POCKET WIDENING PERFORMED BY OTHERS |

H-LINE 19+25 SEE SC-2

NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: AN	DRAWN: AN
REGISTERED CIVIL ENGINEER	CHECKED: JB	DATE: 1/29/2024
DATE:	ROAD NUMBER: 1103	



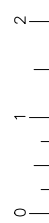
**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**STAGE 1
 SCALE : 1"=20'**

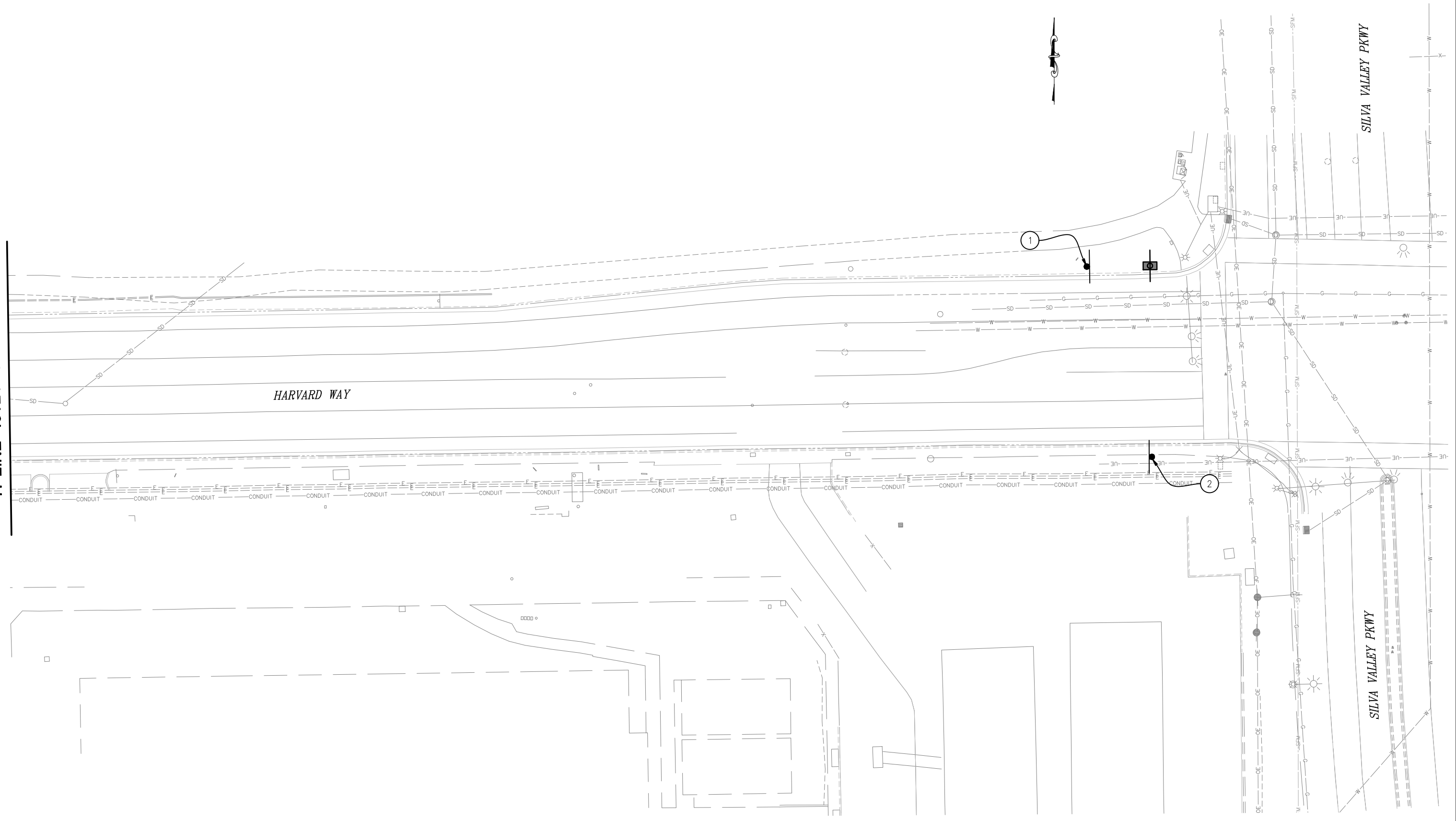
HARVARD WAY AT CLERMONT WAY

SHEET
SC-1
 12 OF 20
 CONTRACT NO.
36105080

ORIGINAL SCALE IS IN INCHES
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H-LINE 19+25 SEE SC-1



REVISION	NUMBER	DATE	DESCRIPTION	BY

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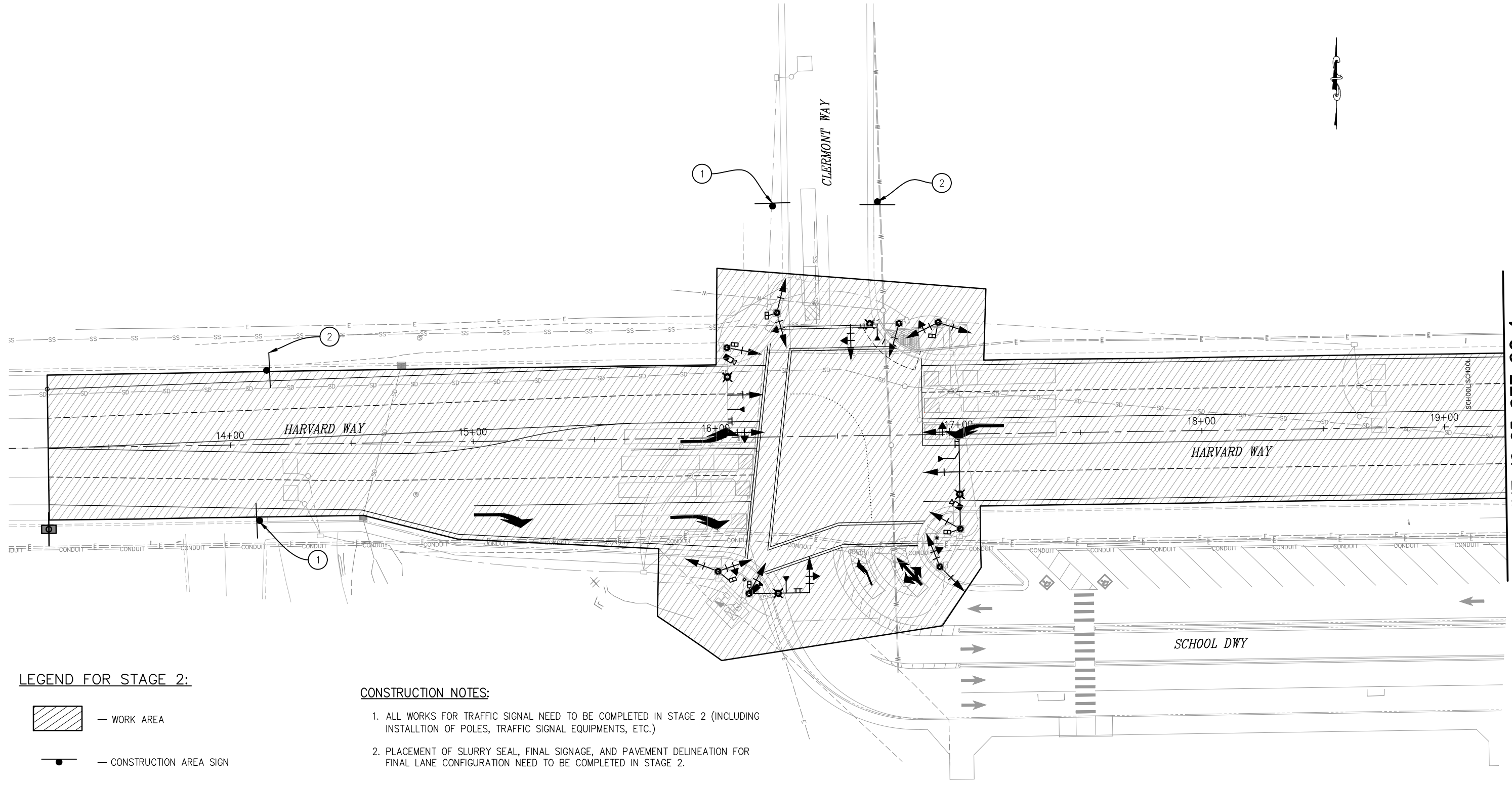
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

STAGE 1
SCALE : 1"=20'

SHEET	SC-2
13 OF 20	
CONTRACT NO.	36105080

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LEGEND FOR STAGE 2:

- WORK AREA
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

CONSTRUCTION NOTES:

1. ALL WORKS FOR TRAFFIC SIGNAL NEED TO BE COMPLETED IN STAGE 2 (INCLUDING INSTALLTION OF POLES, TRAFFIC SIGNAL EQUIPMENTS, ETC.)
2. PLACEMENT OF SLURRY SEAL, FINAL SIGNAGE, AND PAVEMENT DELINEATION FOR FINAL LANE CONFIGURATION NEED TO BE COMPLETED IN STAGE 2.

H-LINE 19+25 SEE SC-4

FOR REDUCED PLANS
 2
 1
 0

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :	DESIGNED: AN	DRAWN: AN
REGISTERED CIVIL ENGINEER	CHECKED: JB	DATE: 1/29/2024
DATE: _____	ROAD NUMBER: 1103	



**COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION**

**STAGE 2
 SCALE : 1"=20'**

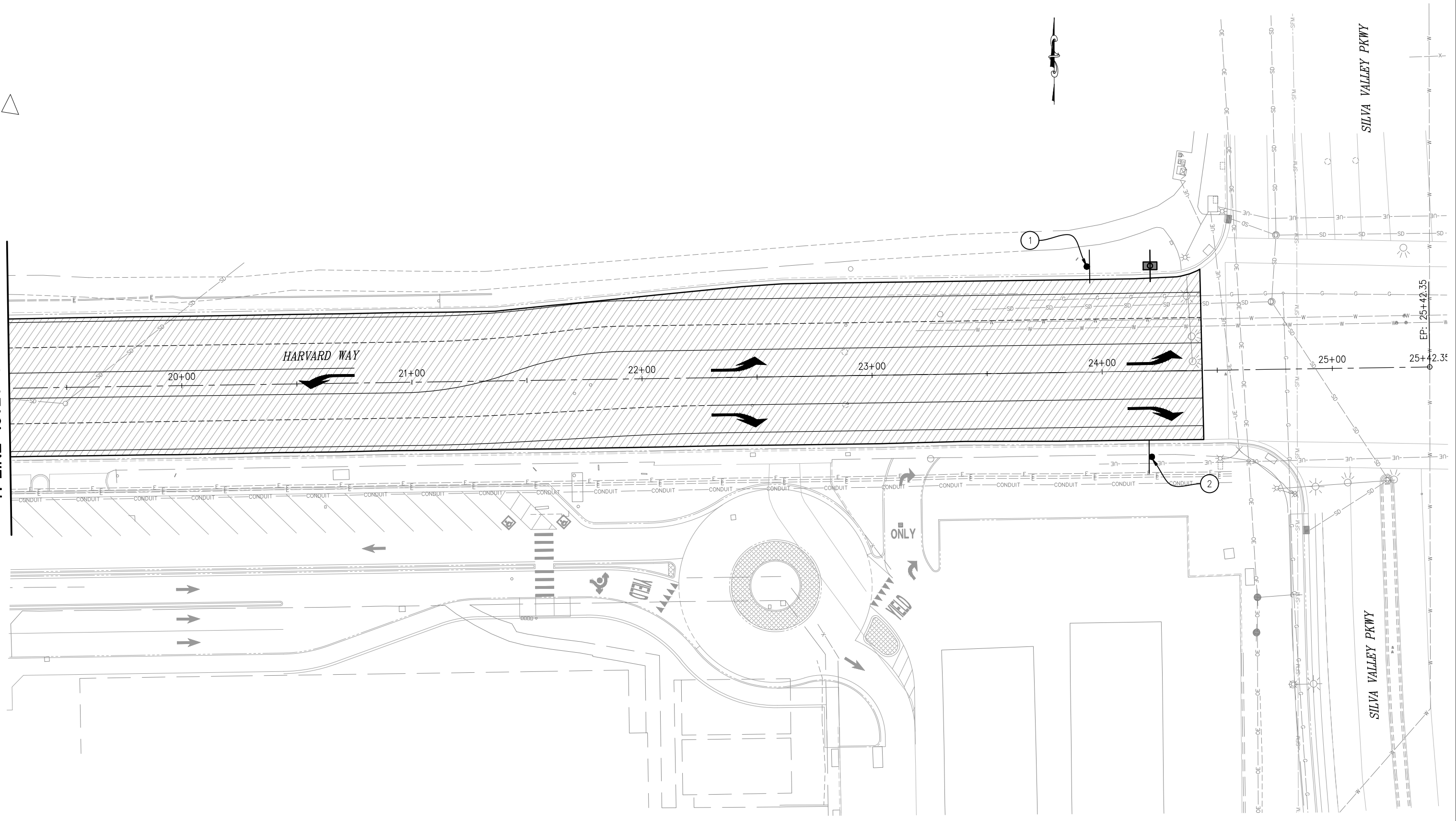
HARVARD WAY AT CLERMONT WAY

SHEET
SC-3
 14 OF 20
 CONTRACT NO.
36105080

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H-LINE 19+25 SEE SC-3



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DATE:	ROAD NUMBER: 1103	



COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

STAGE 2
 SCALE : 1"=20'

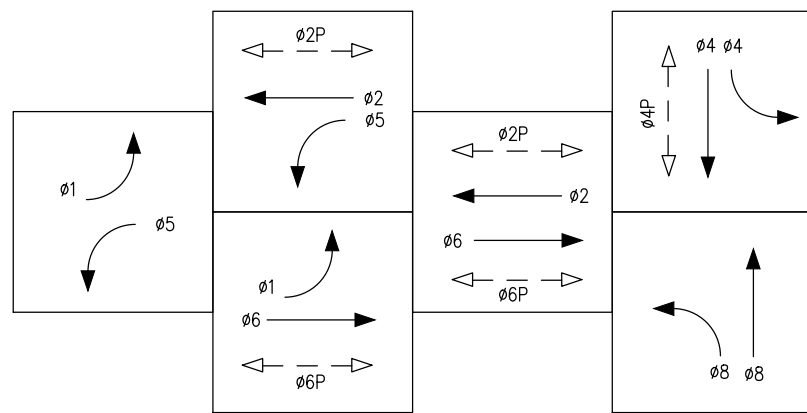
SHEET
SC-4
 15 OF 20
 CONTRACT NO.
36105080

TRAFFIC SIGNAL GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT 2022 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND THE 2018 STANDARD SPECIFICATIONS, THE 2014 REVISION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE SPECIAL PROVISIONS.
2. LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES / DISTRICTS AND UNDERGROUND SERVICE ALERT (USA, 800-642-2444) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
3. THE LOCATION OF ALL PULL BOXES, CONDUITS AND OTHER EQUIPMENT SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
4. ALL SIGNAL POLES SHALL HAVE A MINIMUM OF 4.5' CLEARANCE FROM THE FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL PULL BOXES SHALL BE No. 5 UNLESS OTHERWISE NOTED ON THE PLANS.
6. ALL DETECTOR LOOPS SHALL BE INSTALLED AT THE CENTER OF THE TRAVEL LANE UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER. SEE CALTRANS STANDARD PLANS ES-5A & ES-5B FOR DETAILS.
7. DETECTOR HANDHOLES AND HOME RUN CONDUIT SHALL BE PLACED IN COMMON TRENCH WITH PARALLEL CONDUITS.
8. ALL TRAFFIC PULL BOXES SHALL BE WELDED. SEE DETAIL ON SHEET E-8. DO NOT WELD UNTIL INSPECTION COMPLETE.
9. ALL ADVANCE LOOPS SHALL BE PRE-FORMED TYPE "A" LOOPS.
10. ALL PULL BOXES MUST BE TRAFFIC RATED OTHERWISE NOTED ON THE PLANS.
11. ALL SIGNAL HEADS SHALL HAVE 2-INCH TYPE XI FLUORESCENT YELLOW RETROREFLECTIVE STRIP AROUND THE PERIMETER FACE.

PROJECT NOTES (FOR THIS SHEET ONLY):

1. INSTALL EVD ON SIGNAL HEAD PER RSP ES-4E. FURNISH & INSTALL OPTICOM GPS ENABLED INTERSECTION EQUIPMENT IN ADDITION TO OPTICOM INFRARED DETECTION SYSTEM.
2. INSTALL DEPARTMENT-FURNISHED GRIDSMART CAMERA FOR VEHICLE/BIKE DETECTION WITH THE PERFORMANCE MODULE ON LUMINAIRE MAST ARM.
3. INSTALL APS ON PBA POLE.
4. INSTALL APS ON SIGNAL POLE.
5. INSTALL PEDESTRIAN SIGNAL MODULE WITH COUNTDOWN.
6. INSTALL SIGN R73-3(CA).
7. FURNISH & INSTALL AXIS P5655-E PTZ CCTV CAMERA WITH CAT5 CABLE. CAMERA TO BE PAN, TILT, ZOOM NETWORK CAMERA WITH MOUNTING HARDWARE.



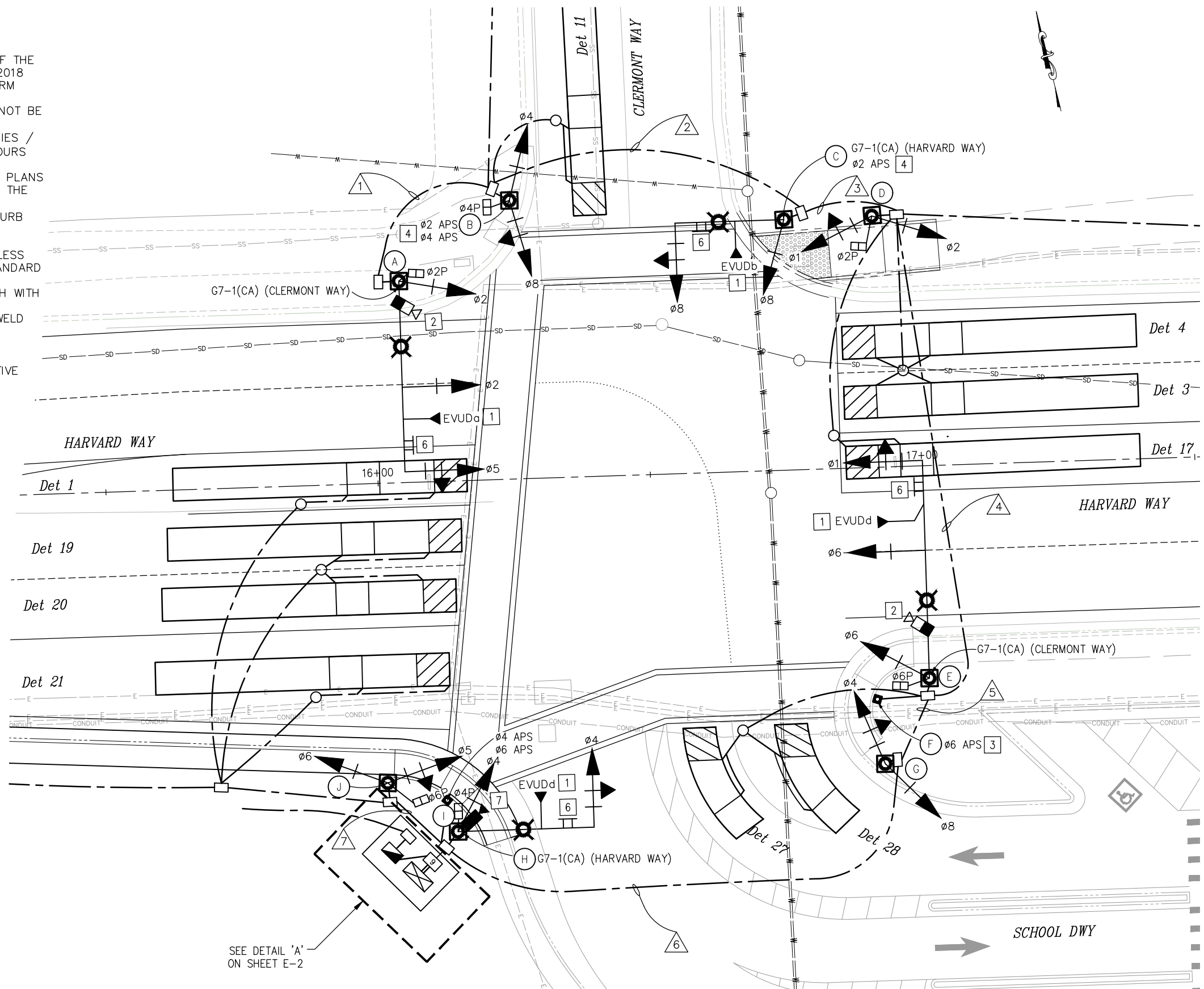
PROPOSED TRAFFIC PHASE DIAGRAM

DESIGN SPEED:
 HARVARD WAY = 35 MPH
 CLERMONT WAY / SCHOOL DWY. = 45 MPH

EVDa = $\phi 2, \phi 5$
 EVDb = $\phi 4$
 EVDc = $\phi 1, \phi 6$
 EVDd = $\phi 8$

THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

REVISION	NUMBER	DATE	DESCRIPTION	BY



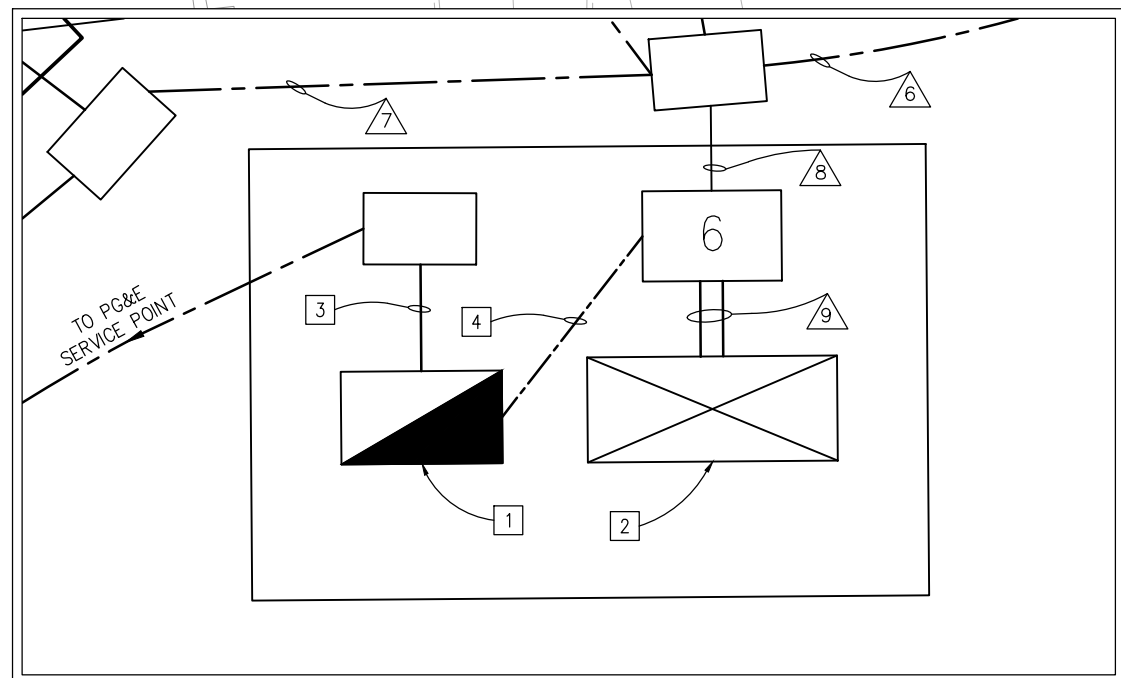
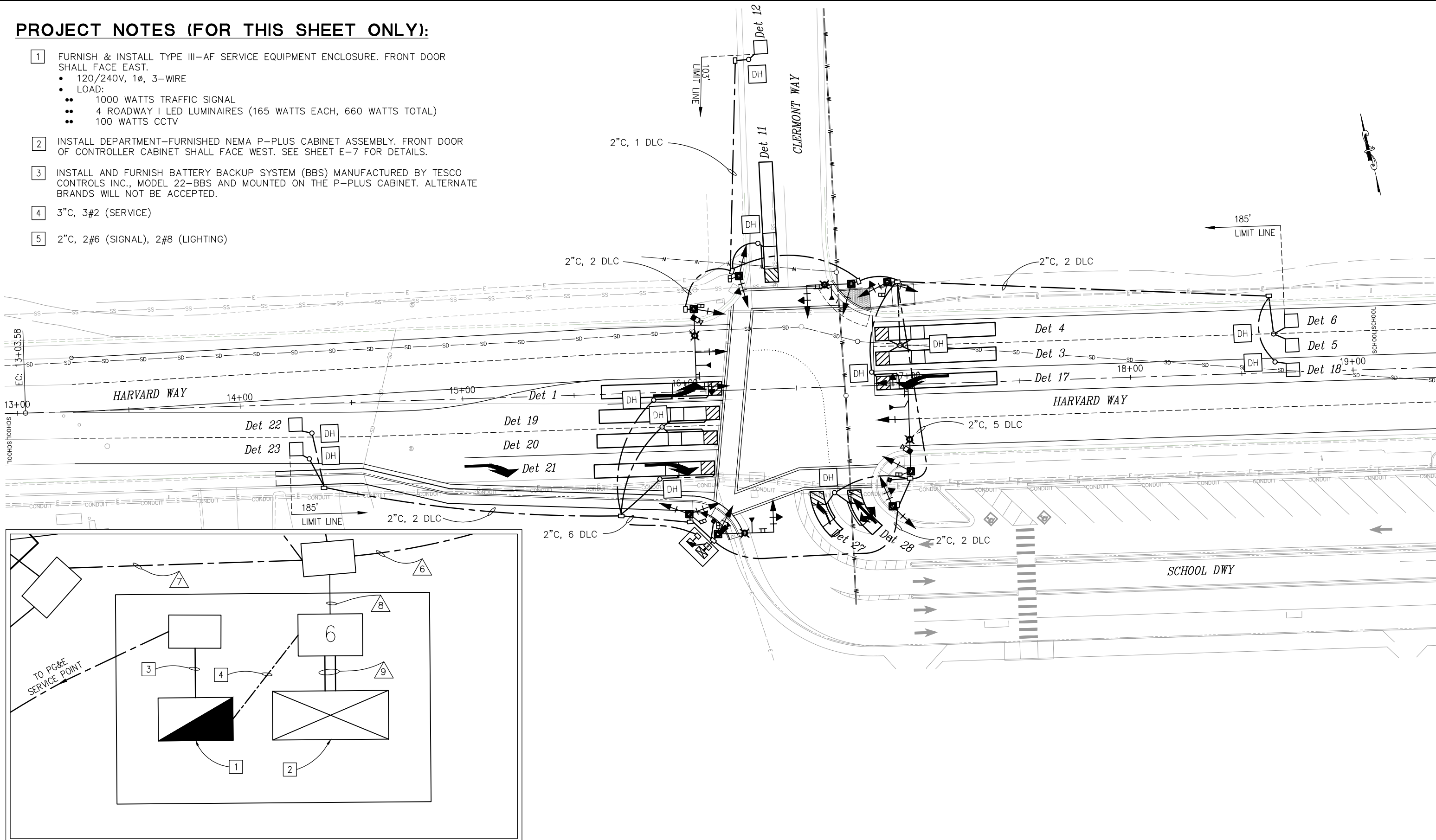
SIGNAL AND LIGHTING PLAN
 SCALE : 1"=10'

PREPARED UNDER THE SUPERVISION OF : REGISTERED CIVIL ENGINEER DATE:	DESIGNED: AN DRAWN: AN CHECKED: JB DATE: 1/29/2024 ROAD NUMBER: 1103	COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	SHEET E-1 16 OF 20 W.O. No. 36105080
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ORIGINAL SCALE IS IN INCHES
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 Layout Tab: E-1 Jan 30, 2024 9:46am Tcheney

PROJECT NOTES (FOR THIS SHEET ONLY):

- 1 FURNISH & INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE. FRONT DOOR SHALL FACE EAST.
 - 120/240V, 1Ø, 3-WIRE
 - LOAD:
 - 1000 WATTS TRAFFIC SIGNAL
 - 4 ROADWAY LED LUMINAIRES (165 WATTS EACH, 660 WATTS TOTAL)
 - 100 WATTS CCTV
- 2 INSTALL DEPARTMENT-FURNISHED NEMA P-PLUS CABINET ASSEMBLY. FRONT DOOR OF CONTROLLER CABINET SHALL FACE WEST. SEE SHEET E-7 FOR DETAILS.
- 3 INSTALL AND FURNISH BATTERY BACKUP SYSTEM (BBS) MANUFACTURED BY TESCO CONTROLS INC., MODEL 22-BBS AND MOUNTED ON THE P-PLUS CABINET. ALTERNATE BRANDS WILL NOT BE ACCEPTED.
- 4 3" C, 3#2 (SERVICE)
- 5 2" C, 2#6 (SIGNAL), 2#8 (LIGHTING)



DETAIL 'A'
NO SCALE

THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING PLAN
SCALE : 1"=20'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES Drawing name: Z:\civil 3d projects\36105080 harvard way at clermont way\CADD Files\Sheets\E Sheets.dwg Layout Tab: E-2 Jan 30,2024 - 9:46am TCheney

REVISION	NUMBER	DATE	DESCRIPTION	BY

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DATE:	ROAD NUMBER: 1103	



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

SHEET	E-2
17 OF 20	
W.O. No.	36105080

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD			VEHICLE SIGNAL MOUNTING			PEDESTRIAN SIGNAL MOUNTING		PBA		LED LUMINAIRE	LOCATION		REMARKS *
	TYPE	SIG. MA (FT)	LUM. MA (FT)	Ø	MAST ARM	Ø	POLE	Ø	POLE	Ø		ARROW	STATION **	
Ⓐ	24-3-100	35	12	2	MAS	2	SV-1-T	2	SP-1-T					INSTALL GRIDSMART CAMERA ON LUMINAIRE MAST ARM. INSTALL CCTV ON STANDARD. INSTALL EVUDa ON SIGNAL HEAD. INSTALL R73-2 (CA) ON SIGNAL MAST ARM. INSTALL G7-1(CA) (CLERMONT WAY) ON STANDARD DIRECTLY ABOVE THE MAST ARM CONNECTION WITH STRAP & SADDLE BRACKET METHOD. F=15.5'*
Ⓑ	1-B					4	TV-2-T	4	SP-1-T					
Ⓒ	17-2-100	20	12	8	MAS-4B	8	SV-1-T							INSTALL EVUDb ON SIGNAL HEAD. INSTALL R73-2 (CA) ON SIGNAL MAST ARM. INSTALL G7-1(CA) (HARVARD WAY) ON STANDARD DIRECTLY ABOVE THE MAST ARM CONNECTION WITH STRAP & SADDLE BRACKET METHOD. F=11'*
Ⓓ	1-B					1	TV-2-T	2	SP-1-T					
Ⓔ	26-3-100	40	12	1	MAS	6	SV-1-T	6	SP-1-T					INSTALL GRIDSMART CAMERA ON LUMINAIRE MAST ARM. INSTALL R73-2 (CA) ON SIGNAL MAST ARM. INSTALL EVUDc ON SIGNAL HEAD. INSTALL G7-1(CA) (CLERMONT WAY) ON STANDARD DIRECTLY ABOVE THE MAST ARM CONNECTION WITH STRAP & SADDLE BRACKET METHOD. F=16.5'*
Ⓕ	PBA									6	→			INSTALL APS SIGN.
Ⓖ	1-B					4	TV-2-T							
Ⓗ	19-2-100	25	12	4	MAS-4B	4	SV-1-T	4	SP-1-T					INSTALL EVUDd ON SIGNAL HEAD. INSTALL R73-2 (CA) ON SIGNAL MAST ARM. INSTALL G7-1(CA) (HARVARD WAY) ON STANDARD DIRECTLY ABOVE THE MAST ARM CONNECTION WITH STRAP & SADDLE BRACKET METHOD.
Ⓘ	PBA									4	→			INSTALL APS SIGN.
⓵	1-B					5	TV-2-T	6	SP-1-T					

* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
 FOR TYPE OF STANDARD AND VEHICLE SIGNAL MOUNTING, SEE CALTRANS STANDARD PLANS.
 ** FINAL LOCATION WILL BE DETERMINED BY THE ENGINEER.

CONDUCTOR & CONDUIT SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE Ø	POLE OR CIRCUIT	RUN No.											
			1	2	3	4	5	6	7	8	9			
12/3 CONDUCTOR SIGNAL CABLES	2, 2P, 5	POLE Ⓐ	1	1	1	1	1	1	1	1	1	1	1	1
	4, 4P, 8	2PBA, 4PBA POLE Ⓑ	1	1	1	1	1	1	1	1	1	1	1	1
	8	2PBA POLE Ⓒ	1	1	1	1	1	1	1	1	1	1	1	1
	1, 2, 2P	POLE Ⓓ	1	1	1	1	1	1	1	1	1	1	1	1
	1, 6, 6P	POLE Ⓔ	1	1	1	1	1	1	1	1	1	1	1	1
	4, 8	6PBA POLE Ⓕ	1	1	1	1	1	1	1	1	1	1	1	1
	4, 4P	POLE Ⓖ	1	1	1	1	1	1	1	1	1	1	1	1
	4, 4P	POLE Ⓗ	1	1	1	1	1	1	1	1	1	1	1	1
	4, 4P	POLE Ⓙ	1	1	1	1	1	1	1	1	1	1	1	1
	5, 6, 6P	4PBA, 6PBA POLE ⓵	1	1	1	1	1	1	1	1	1	1	1	1
#8	TOTAL CABLES 12/3 CONDUCTORS		1	2	3	4	5	6	3	1	1	8	4	8
#6	LIGHTING (240V)		2	2	2	2	2	2				2	2	
	CONTROLLER SERVICE (120V)													2
TYPE B DLC	Det 1											1	1	1
	Det 3, 4, 5, 6				4	4	4					4	4	
	Det 11, 12		2	2	2	2	2					2	2	
	Det 17, 18				2	2	2					2	2	
	Det 19, 20, 21, 22, 23											5	5	5
	Det 27, 28									2			2	2
	TOTAL			2	2	8	8	10	6			16	16	
	GRIDSMART CAMERA CABLE		1	1	1	1	2	2				2	2	
	EVD		1	1	2	2	3	3				4	4	
	CONDUIT SIZE		2"	3"	4"	4"	2-4"	2-4"	3"	2-4"	2-4"			
	% FILL		22	20	18	25	16	18	13	25	25			

NOTES:
 1. GRIDSMART CAMERA CABLE PLACED IN 1-2"C BY ITSELF.
 2. APS SIGN MUST BE R10-3eR OR R10-3eL.

THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING PLAN
 NO SACLE

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

DESIGNED: AN
 DRAWN: AN
 CHECKED: JB
 DATE: 1/29/2024
 ROAD NUMBER: 1103

REGISTERED CIVIL ENGINEER

DATE:

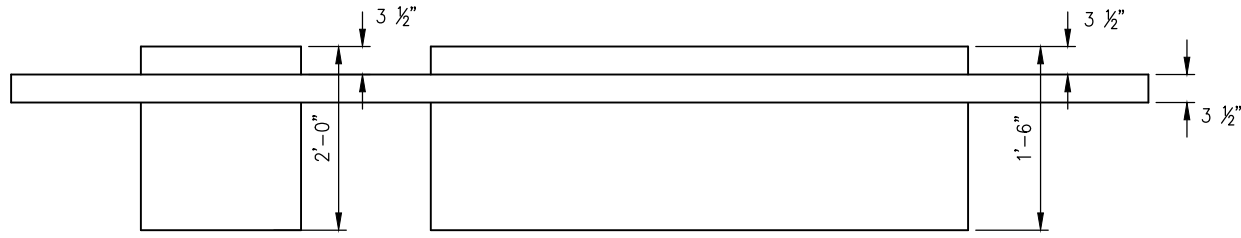
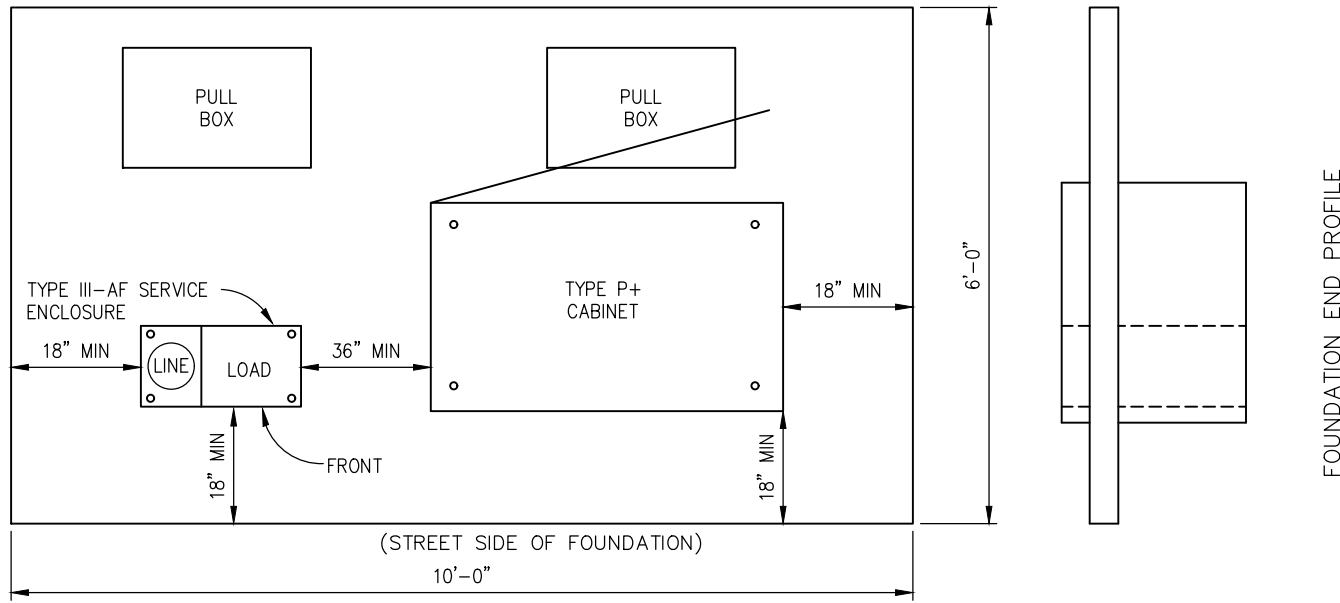


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

SHEET
E-3
 18 OF 20
 W.O. No.
36105080

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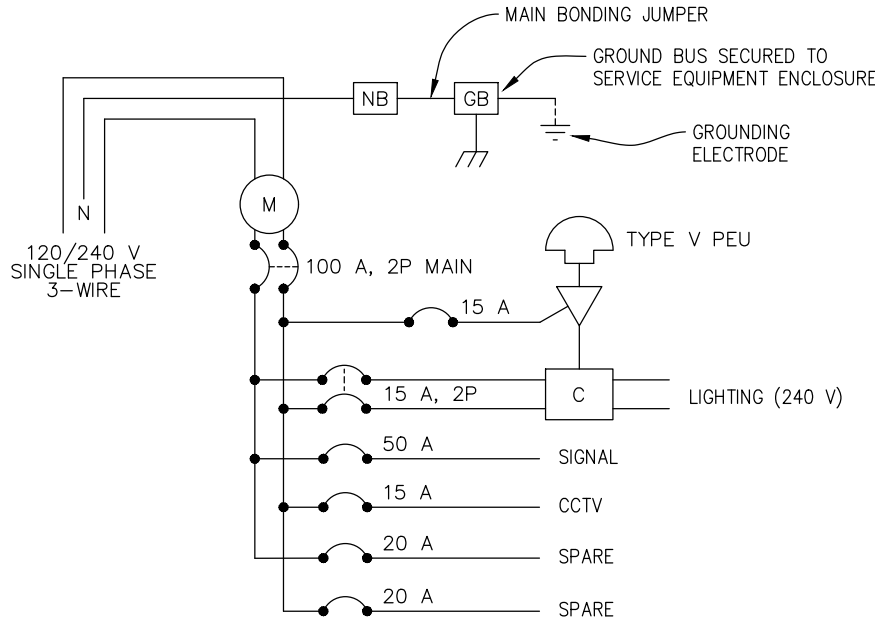


FOUNDATION SIDE PROFILE

- IN ADDITION TO MEETING ALL CURRENT CALTRANS SPECIFICATIONS, THE FOUNDATION FOR THE ELECTRICAL SYSTEMS CONTROLLER CABINET SHALL MEET THE FOLLOWING EL DORADO COUNTY SPECIAL PROVISIONS:
1. ANCHOR BOLTS AND 10' GROUND ROD FOR SERVICE AND CONTROLLER ENCLOSURES TO BE INSTALLED PER STANDARD PLANS ES-2D AND ES-3B.
 2. PULL BOXES SHALL NOT BE LOCATED IN PEDESTRIAN TRAVELWAY (SIDEWALK).
 3. CABINET DOORS SHALL NOT PROTRUDE INTO PEDESTRIAN TRAVELWAY (SIDEWALK) WHEN OPEN.
 4. IN NO CASE SHALL THE SIGNAL CABINET, BATTERY BACKUP CABINET OR SERVICE CABINET BE LESS THAN FOUR (4) FEET FROM THE EDGE OF PAVEMENT OR TOP BACK OF CURB, WHICH EVER IS GREATER.

TYPICAL SIGNAL CONTROLLER PAD

NO SCALE

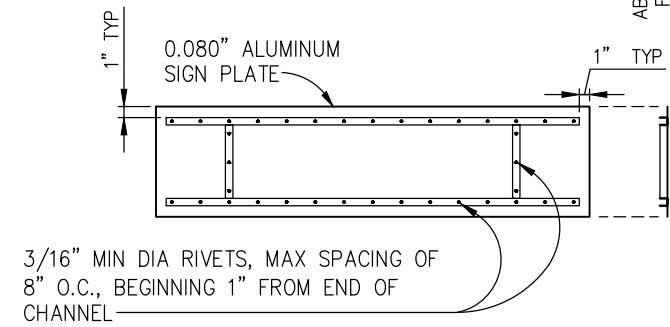
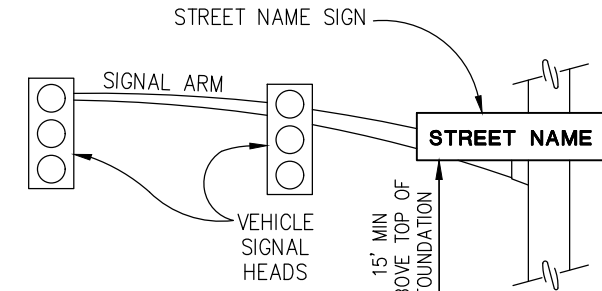


SERVICE EQUIPMENT WIRING DIAGRAM

NO SCALE

WIRING DIAGRAM LEGEND:

- C CONTACTOR
- GB GROUND BUS
- NB NEUTRAL BUS
- AUTO-TEST SWITCH (15 A, 1P)
- PHOTOELECTRIC UNIT
- M METER SOCKET



STREET NAME SIGN MOUNTING DETAIL

NO SCALE

- NOTES:**
1. ALL HANGER COMPONENTS TO BE GALVANIZED, EXCEPT STAINLESS STEEL BANDS.
 2. ATTACH SIGN TO POLE AND SIGNAL MAST ARM VIA SADDLE BRACKETS.
 3. SEE EQUIPMENT SCHEDULE FOR MESSAGE.
 4. SEE SPECIAL PROVISIONS FOR SIGN SPECIFICATIONS.
 5. FRAME MATERIAL: 1 1/4" X 1 1/4" X 3/16" ALUMINUM CHANNEL -ALLOY 6063-T5

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SIGNAL AND LIGHTING DETAILS
SCALE : AS SHOWN

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DATE:	ROAD NUMBER: 1103	

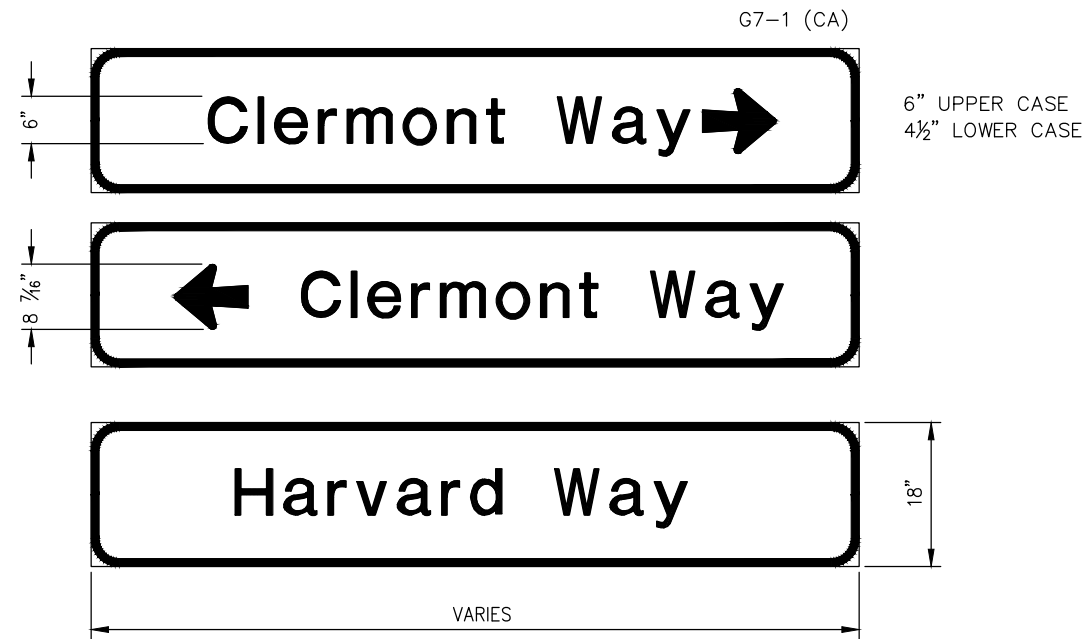


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HARVARD WAY AT CLERMONT WAY

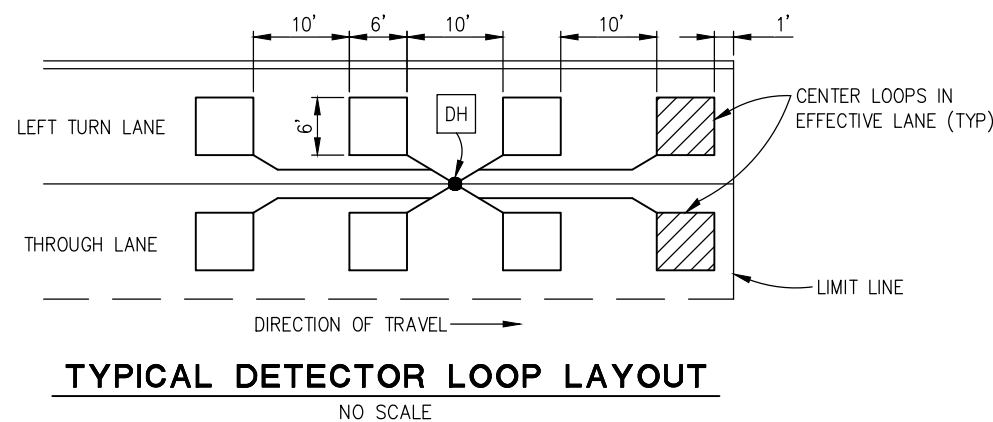
SHEET	E-4
19 OF 20	
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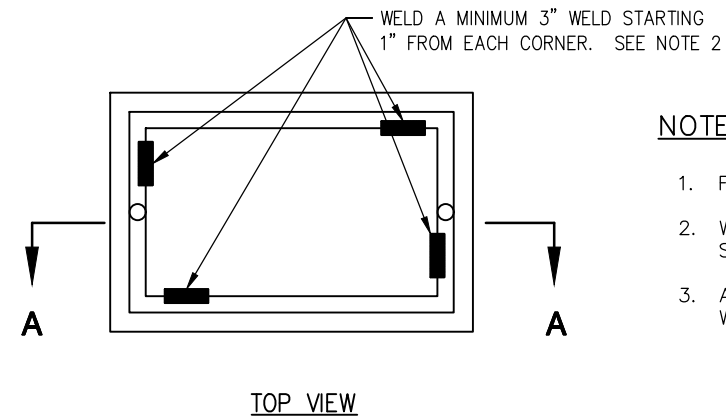


NOTES:
 1. SIGN PANEL DIMENSIONS SHOWN ARE TYPICAL.

STREET NAME SIGN PANELS
 NO SCALE

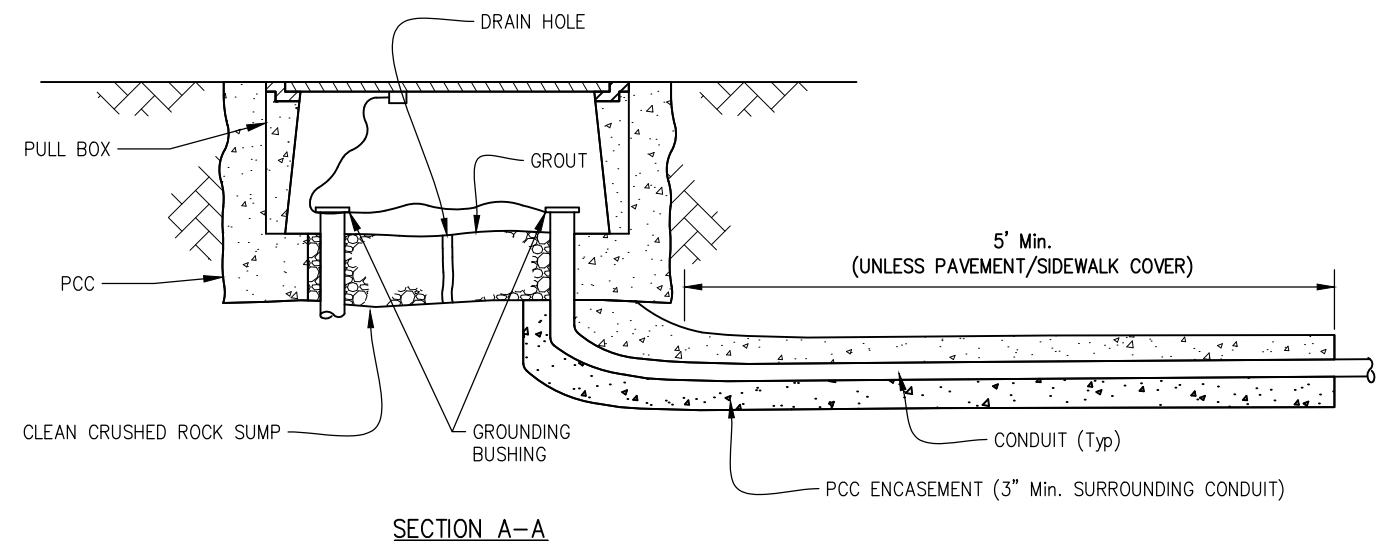


TYPICAL DETECTOR LOOP LAYOUT
 NO SCALE



NOTES ON PULL BOXES:

1. FOR ADDITIONAL DETAILS, SEE STANDARD PLAN ES-8B.
2. WELDING SHALL COMPLY WITH REQUIREMENT IN STANDARD SPECIFICATION SECTION 75.
3. A PULL BOX FOR A POST OR A POLE STANDARD MUST BE LOCATED WITHIN 5 FEET OF THE STANDARD.



TRAFFIC PULL BOX
 NO SCALE

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COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

SIGNAL AND LIGHTING DETAILS
SCALE : AS SHOWN

HARVARD WAY AT CLERMONT WAY

SHEET	E-5
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