

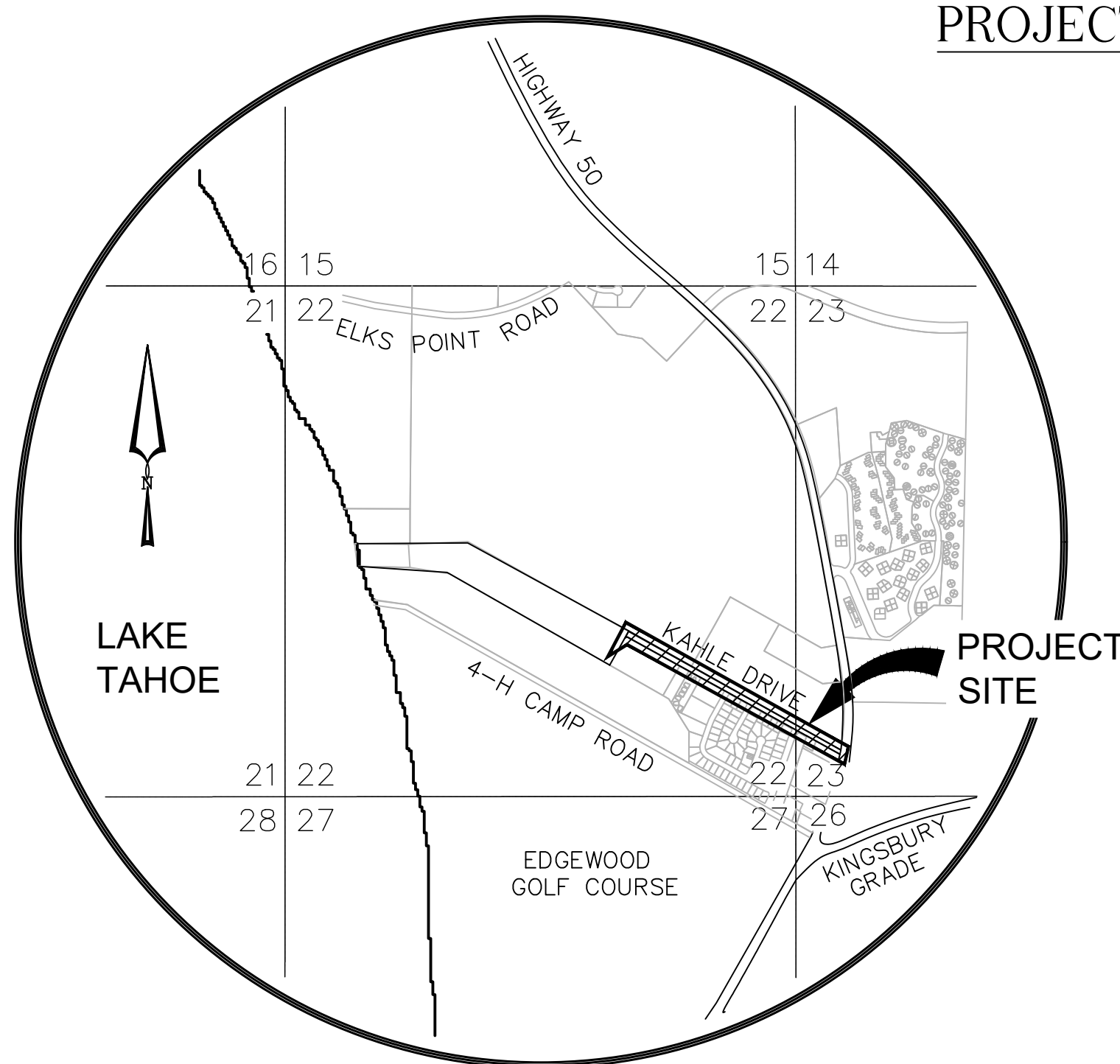
DOUGLAS COUNTY KAHLE DRIVE COMPLETE STREETS PROJECT

STATELINE, NEVADA
PWP-D0-2025-122



PROJECT LOCATION MAP
SCALE: NTS

SHEET INDEX		
SHEET NO.	DRAWING NO.	DESCRIPTION
1	G1	TITLE SHEET
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4	G4	LEGEND, & ABBREVIATIONS
5	G5	LOCATION CONTROL SHEET
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11 - 13	R1 - R3	DEMOLITION PLANS
14 - 22	C1 - C9	CONSTRUCTION PLANS AND PROFILES
23 - 24	CS1 - CS2	CROSS SECTIONS
25 - 35	DT1 - DT11	SPECIAL DETAILS - CURB RAMP, DRIVEWAY, BIKEWAY, SIDEWALK, & BASIN OUTFALL
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39 - 40	L1 - L2	LANDSCAPE AND REVEGETATION PLANS
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54 - 74	E001-E504	LIGHTING PLANS (BY OTHERS)
75 - 80	E.1 - E.6	ELECTRICAL PLANS (BY OTHERS)
81 - 84	1 - 4	COMMUNICATIONS PLANS (BY OTHERS)



VICINITY MAP
SCALE: NTS

BASIS OF ELEVATION

BASIS OF ELEVATION TAKEN FROM DOUGLAS COUNTY, LAKE TAHOE SEWER AUTHORITY (D.C.L.T.S.A) SSMH 310 RIM PER SHEET 16 OF 109 DATED 12/04/09 AND TAKEN AS ELEVATION 6235.97

BASIS OF BEARING

THE EAST LINE OF LOT 2 IN SECTION 22, TOWNSHIP 13 NORTH, RANGE 18 EAST, M.D.M., AS SHOWN ON THE RECORD OF SURVEY MAP FOR U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE DOC. 65904 (NORTH 00°01'17" WEST)

PUBLIC UTILITY COMPANIES

SEWER:
DOUGLAS COUNTY, LAKE TAHOE SEWER AUTHORITY
391 US-50,
ZEPHYR COVE, NV 89448
775-588-3558

WATER:
KINGSBURY GENERAL IMPROVEMENT DISTRICT
255 KINGSBURY DRIVE SUITE A
STATELINE, NV 89449
775-588-3548
775-588-3541 (FAX)

FIRE PROTECTION:
TAHOE DOUGLAS FIRE PROTECTION DISTRICT
193 ELKS POINT RD,
ZEPHYR COVE, NV 89448
775-588-3591

POWER:
NV ENERGY
6100 NEIL ROAD
RENO, NV 89511
775-834-4444

GAS:
SOUTHWEST GAS CORPORATION
400 EAGLE STATION LANE
ZEPHYR COVE, NV 89701
775-882-2126

CABLE:
CHARTER COMMUNICATIONS
9335 PROTOTYPE DRIVE
RENO, NV 89521-8992
775-850-1291

TELEPHONE:
FRONTIER / VERIZON
1520 CHURCH STREET
GARDNERVILLE, NV 89410
775-781-2325

DOUGLAS COUNTY ENGINEER

SIGNATURE DATE

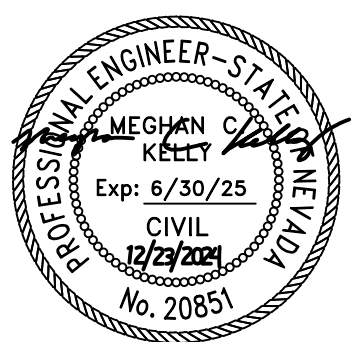
NEVADA TAHOE CONSERVATION DISTRICT

SIGNATURE DATE

REVISIONS

NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION

TITLE SHEET
KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN
MJEK

CHECKED
MK

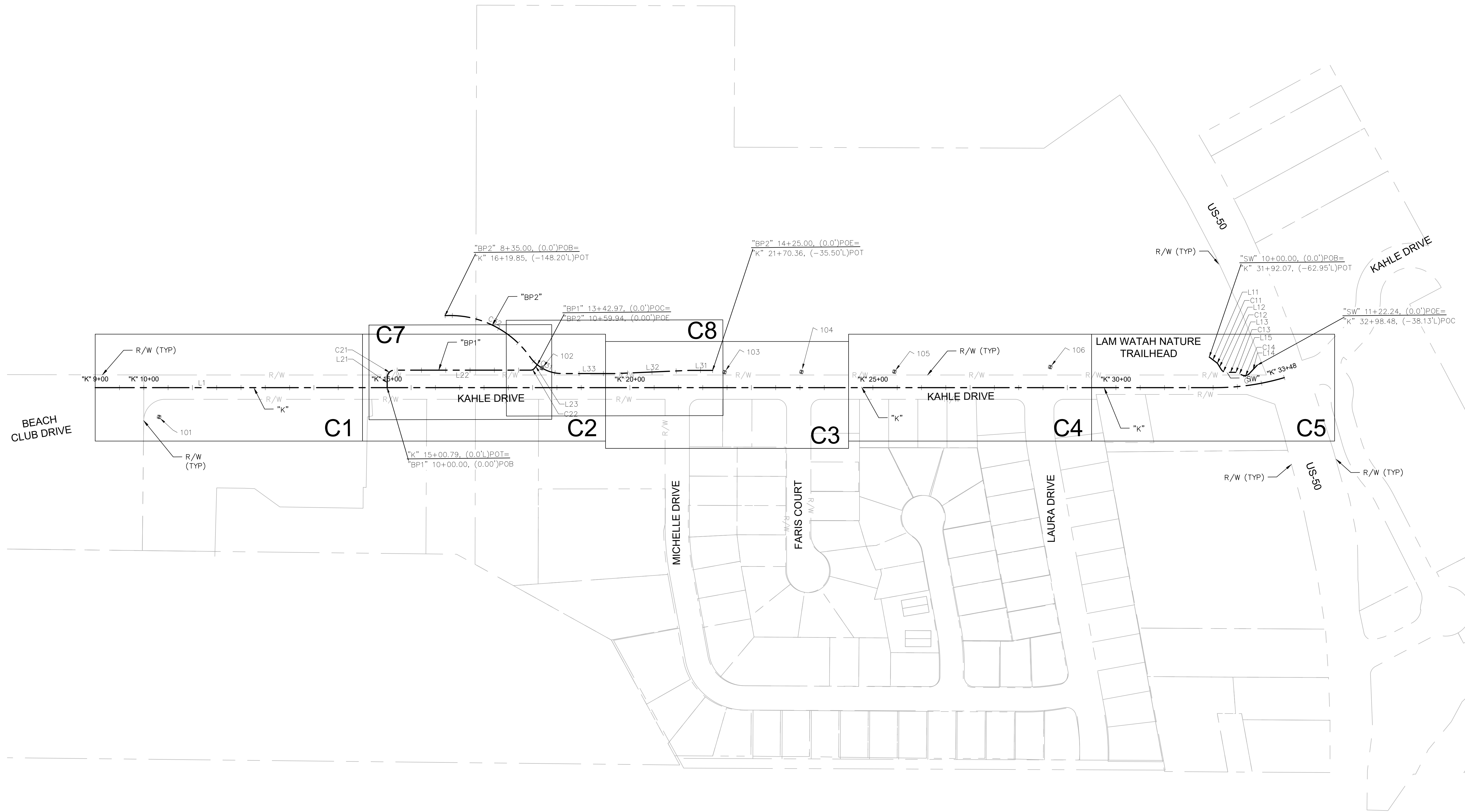
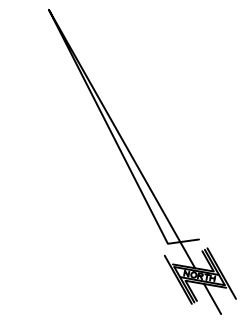
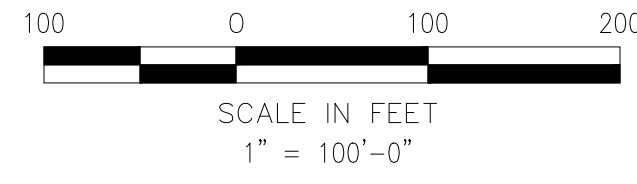
DATE
11/2024

SCALE
AS SHOWN

PROJECT
KAHLE DRIVE
COMPLETE STREETS
SHEET

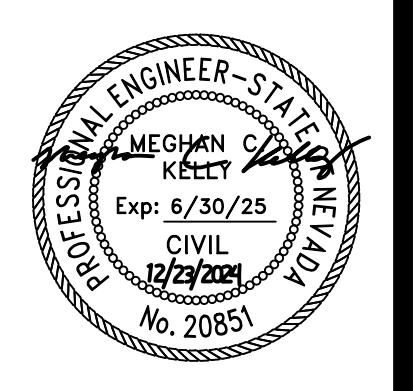


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REVISIONS	
NO.	DESCRIPTION

CONSTRUCTION SHEET INDEX
KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



GENERAL NOTES:

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("ORANGE BOOK")...

PUBLIC STREET / RIGHT-OF-WAY IMPROVEMENT NOTES:

- 1. THE CONTRACTOR IS REQUIRED TO COORDINATE THE PLACEMENT OR INSTALLATION OF DRIVEWAYS IN ORDER TO AVOID CONFLICT WITH UTILITY SERVICES.

WATER UTILITY NOTES:

- 1. ALL PUBLIC WATER MAIN MATERIALS SHALL BE PER SECTION 203.06 (DIP) OR 203.15 (PVC) OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

WASTEWATER UTILITY NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL INVERT ELEVATIONS BEFORE PROCEEDING WITH UTILITY TRENCHING.

STORM DRAIN NOTES:

- 1. MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.

GRADING GENERAL NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, OSHA REQUIREMENTS FOR EXCAVATION, AND SPECIAL REQUIREMENTS OF THE PERMIT.

UTILITY GENERAL NOTES

- 1. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES EXISTING AND APPROVED, THE SANITARY LINE SHALL BE ENCASED IN A POLY-WRAPPED STEEL CASING ALLOWABLE PIPE PRODUCTS ARE PVC SDR 25 OR SDR 35 PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING.

STAGING AND STOCKPILING NOTES:

- 1. STAGING AND STOCKPILE AREAS SHALL BE LIMITED ONLY TO APPROVED AREAS AS DETERMINED BY THE ENGINEER.

TRPA NOTES:

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE TRPA PERMIT.

DEWATERING NOTES:

- 1. IF DEWATERING IS NECESSARY, WATER CAN BE PUMPED TO THE EXISTING STORMWATER BASINS ON KAHLE DRIVE WITH APPROVAL FROM DOUGLAS COUNTY OR USED AS CONSTRUCTION WATER.

REVEGETATION NOTES:

- 1. WORK SHALL BE CONDUCTED AND/OR OVERSEEN BY A LICENSED LANDSCAPE CONTRACTOR (C-10) IN THE STATE OF NEVADA AND WILL BE INSPECTED BY THE ENGINEER, IN CONJUNCTION WITH A REVEGETATION SPECIALIST (RS).

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GENERAL NOTES
KAHLE DRIVE COMPLETE STREETS PROJECT

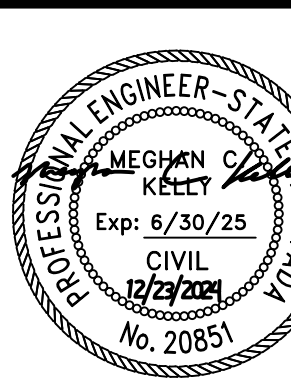


Table with 2 columns: Action and Name. Includes rows for DESIGNED/DRAWN, CHECKED, DATE, SCALE, PROJECT, COMPLETE STREETS SHEET.



ABBREVIATIONS

NOT ALL ABBREVIATIONS LISTED ARE USED IN THESE PLANS

AB	AGGREGATE BASE	MDD	MAXIMUM DRY DENSITY
AC	ACRE, ASPHALT CEMENT	MJ	MECHANICAL JOINT
AGG	AGGREGATE	MI	MILE
AP	ANGLE POINT	MIN.	MINIMUM
AVG.	AVERAGE	MISC.	MISCELLANEOUS
AWWA	AMERICAN WATER WORKS ASSOCIATION	N	NORTH
BC	BEGIN CURVE	N.I.C.	NOT IN CONTRACT
C&G	CURB AND GUTTER	NDOT	NEVADA DEPT OF TRANSPORTATION
CATV	CABLE TELEVISION	NTGD	NEVADA TAHOE CONSERVATION DISTRICT
CB	CATCH BASIN	N.T.S.	NOT TO SCALE
CL	CENTERLINE	NO.	NUMBER
CLR.	CLEAR	OC	ON CENTER
CO	CLEAN OUT	OG	ORIGINAL GRADE
CONST	CONSTRUCT	OH(E/T)	OVERHEAD ELECTRIC OR TELEPHONE LINES
CF	CUBIC FEET	OPGID	OLIVER PARK GENERAL IMPROVEMENT DISTRICT
CMP	CORRIGATED METAL PIPE	PC	POINT OF CURVATURE
CY	CUBIC YARD	PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
DCLTSA	DOUGLAS COUNTY LAKE TAHOE SEWER AUTHORITY	PI	POINT OF INFLECTION
DG	DECOMPOSED GRANITE	PIP	PROTECT IN PLACE
DEG	DEGREE(S)	PL	PROPERTY LINE
DI	DROP INLET	PO	PUSH ON
DIA.	DIAMETER	POB	POINT OF BEGINNING
DR	DIMENSION RATIO	POC	POINT ON CURVE
DWG	DRAWING	POE	POINT OF ENDING
DW, DWY	DRIVEWAY	POT.	POINT ON TANGENT
EA	EACH	POS	POSITIVE
EASE.	EASEMENT	PRC	POINT OF REVERSE CURVE
EG	EXISTING GRADE	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRIC	PT	POINT
EP	EDGE OF PAVEMENT	PUE	PUBLIC UTILITY EASEMENT
ELEV.	ELEVATION	PVMT	PAVEMENT
EC	END CURVE	PVC	POLYVINYL CHLORIDE
EX.	EXISTING	R	RADIUS
FG	FINISH GRADE	RCP	REINFORCED CONCRETE PIPE
FH	FIRE HYDRANT	REVEG	REVEGETATION
FCA	FLANGE COUPLER ADAPTER	RLC	ROCK LINED CHANNEL
FES	FLARED END SECTION (METAL)	RT,R	RIGHT
FFC	FRONT FACE OF CURB	RW, ROW	RIGHT-OF-WAY
FL	FLOWLINE	SS	SANITARY SEWER, STAINLESS STEEL
FLG	FLANGED	SSCO	SANITARY SEWER CLEAN OUT
FT.	FOOT, FEET	SSFM	SANITARY SEWER FORCE MAIN
FTG	FOOTING	SSMH	SANITARY SEWER MANHOLE
FV	FLUSH VALVE	S	SLOPE, SOUTH
G	GAS	SF	SQUARE FOOT/FEET
GV	GATE VALVE	SHT	SHEET
GB	GRADE BREAK	STD	STANDARD
HDPE	HIGH DENSITY POLYETHYLENE	SDR	STANDARD DIMENSION RATIO
HDPE-NP	NON-PERFORATED HIGH DENSITY POLYETHYLENE	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
HDPE-P	PERFORATED HIGH DENSITY POLYETHYLENE	STA	STATION
HP	HIGH POINT	SD	STORM DRAIN
HOR., HORIZ.	HORIZONTAL	SDMH	STORM DRAIN MANHOLE
IN.	INCH	TBC	TOP BACK OF CURB
IE	INVERT ELEVATION	TOC	TOP OF CURB
IRR.	IRRIGATION	TRPA	TAHOE REGIONAL PLANNING AGENCY
JB	JUNCTION BOX	TW	TOP OF WALL
JT	JOINT TRENCH	TYP	TYPICAL
KGID	KINGSBURY GENERAL IMPROVEMENT DISTRICT	UGE	UNDERGROUND ELECTRIC LINES
L, LT	LEFT	UGT	UNDERGROUND TELEPHONE LINES
LEN.	LENGTH	VC	VERTICAL CURVE
LF	LINEAR FEET	VG	VALLEY GUTTER
LID	LOW IMPACT DEVELOPMENT	VPC	VERTICAL POINT OF CURVATURE
LP	LOW POINT	VPI	VERTICAL POINT OF INFLECTION
LS	LUMP SUM	VPT	VERTICAL POINT OF TANGENT
MH	MANHOLE	W	WATER
MAX.	MAXIMUM	WL	WATERLINE
		W	WEST
		W	WITH
		WM	WATER METER
		WV	WATER VALVE

SYMBOLS

@	AT
°	DEGREE(S)
Δ	DELTA
∅	DIAMETER
+/-	PLUS OR MINUS
'	FOOT/FEET, MINUTES
"	INCH, SECONDS
#	NUMBER
%	PERCENT
&	AND
=	EQUALS

LEGEND

	REMOVE ASPHALT PAVEMENT
	REMOVE ASPHALT DRIVEWAY
	REMOVE CONCRETE DRIVEWAY
	REMOVE CONCRETE
	REMOVE DRAINAGE STRUCTURE
	REMOVE ABANDONED STRUCTURE
	ABANDON PIPE
	REMOVE PIPE
	REMOVE FENCE
	REMOVE SIGN
	PROTECT IN PLACE SIGN
	REMOVE AND RESET SIGN
	CONSTRUCTION FENCE
	SILT FENCE
	TREE PROTECTION
	INLET PROTECTION
	STAGING AREA
	CONSTRUCTION ENTRANCE
	FLOW DIRECTION
	REVEGETATION - SEED MIX 1
	REVEGETATION - SOD
	CONTROL POINT

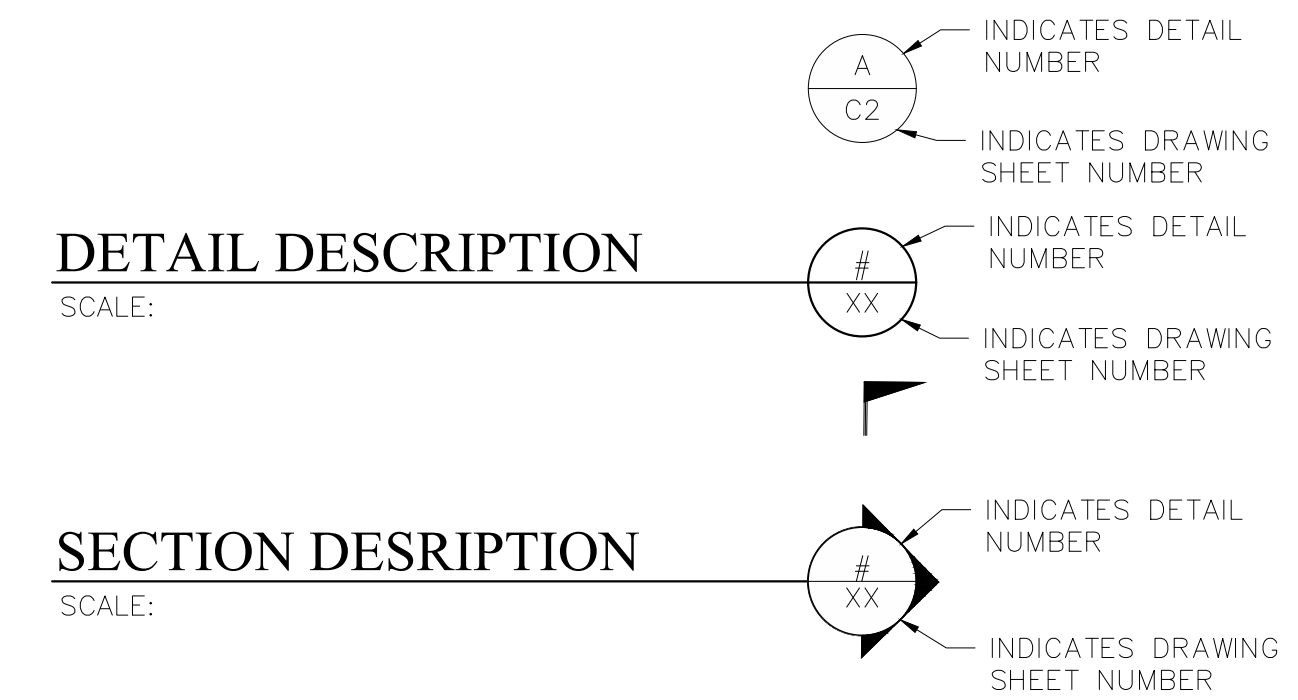
KEY NOTES (DEMOLITION)

- REMOVE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
- PROTECT IN PLACE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
- REMOVE AND RESET SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
- PROTECT IN PLACE GATE.
- SAWCUT (MATCH EXISTING)
- REMOVE TREE - 6"- 12"
- REMOVE TREE - 13"- 18"
- REMOVE TREE - 19"- 24"

KEY NOTES (CONSTRUCTION):

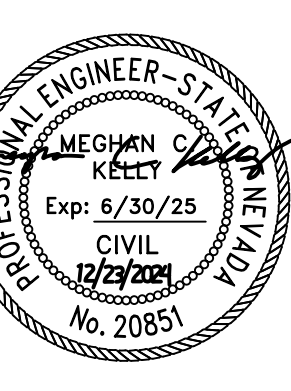
- STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
- SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
- WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE. SEE DETAIL 5,6,7/D7.
- GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
- WATER METER; ADJUST METER BOX AND COVER TO GRADE.
- SANITARY SEWER CLEANOUT; ADJUST CLEANOUT BOX AND COVER TO GRADE. SEE DETAIL 6/D8.

DETAIL AND SECTION DESIGNATION



NO.	DATE	BY	DESCRIPTION				
				NO.	DATE	BY	DESCRIPTION

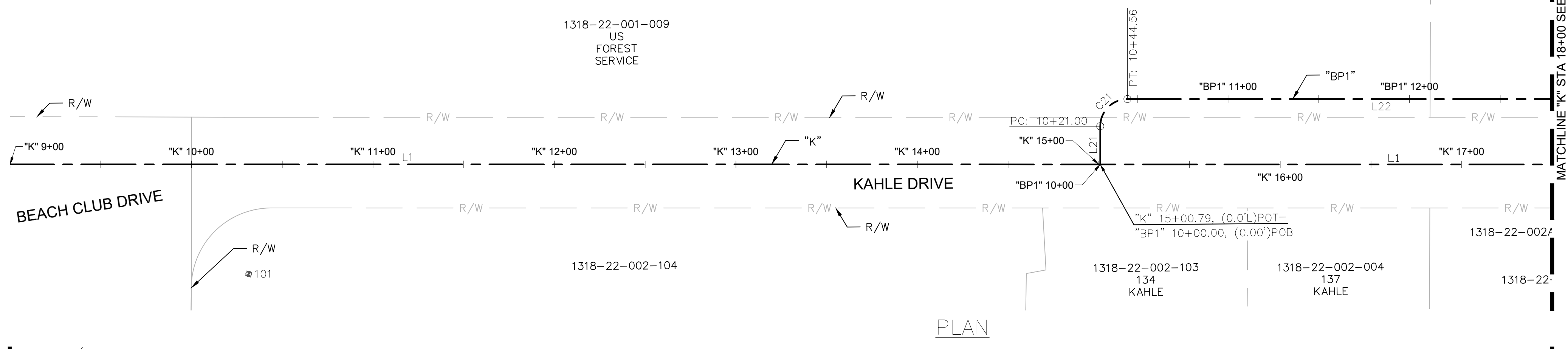
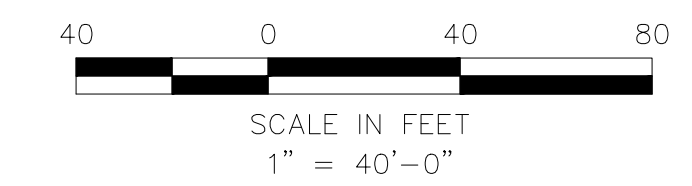
LEGEND & ABBREVIATIONS
KAHLE DRIVE COMPLETE STREETS PROJECT



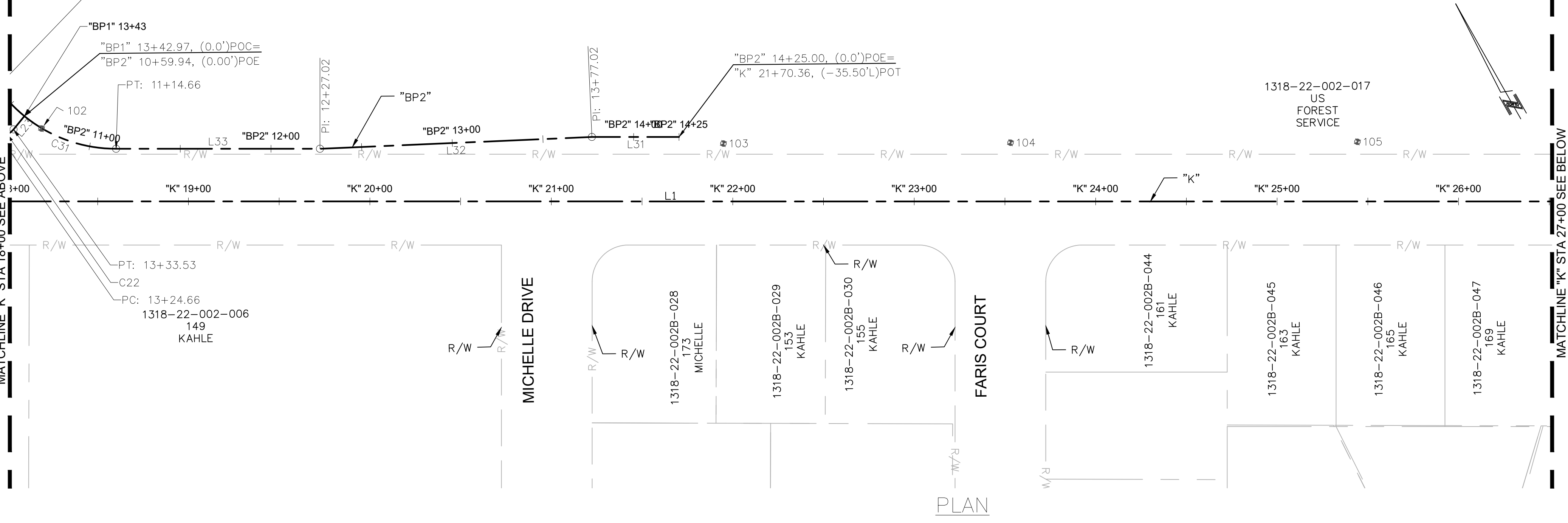
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PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



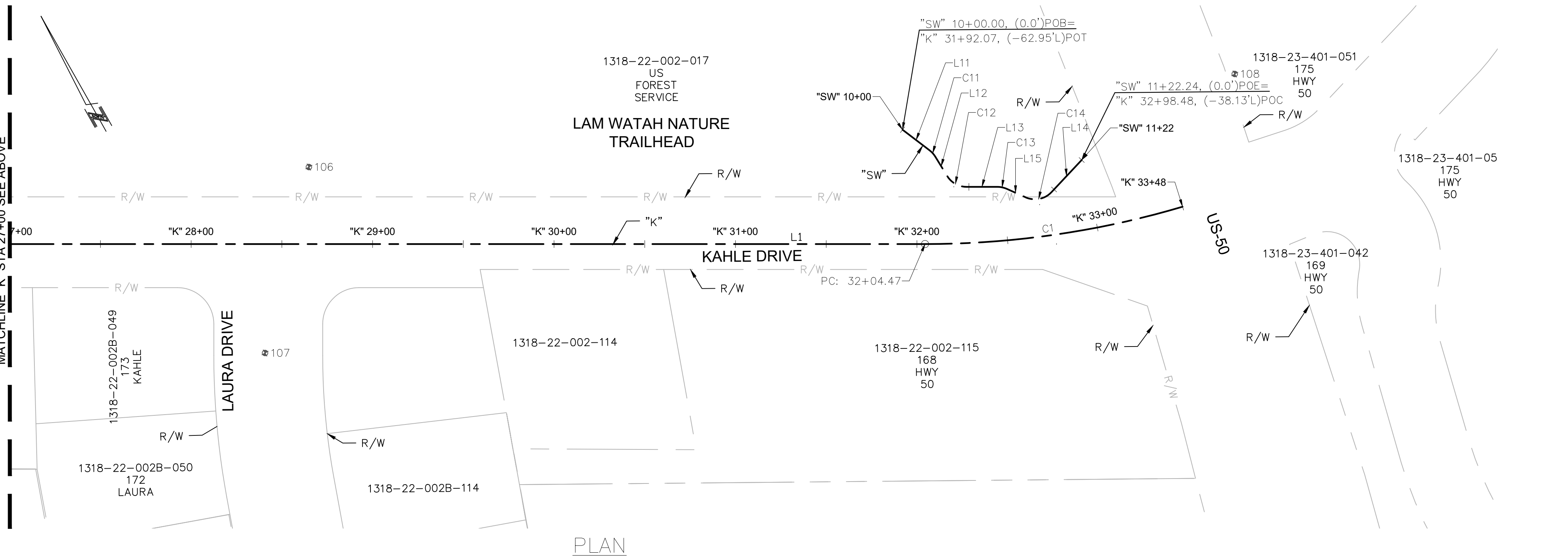
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PLAN



PLAN



PLAN

Number	ALIGNMENT NAME	STATION	RADIUS	TANGENT	LENGTH	LINE / CHORD DIRECTION	START NORTHING	START EASTING
L1	"K"	9+00.00			2304.47	S60° 28' 58.99"E	14663802.1213	2238233.8794
C1	K	32+04.47	500.00	143.41	143.90	S68° 43' 41.16"E	14662666.7542	2240239.2498

Number	ALIGNMENT NAME	STATION	RADIUS	TANGENT	LENGTH	LINE / CHORD DIRECTION	START NORTHING	START EASTING
L21	"BP1"	10+00.00			21.00	N29° 31' 01.11"E	14663506.1223	2238756.6967
C21	BP1	10+21.00	15.00	21.21	23.56	N74° 31' 01.11"E	14663524.3967	2238767.0431
L22	"BP1"	10+44.56			280.10	S60° 28' 58.89"E	14663530.0597	2238787.4864
C22	BP1	13+24.66	10.00	8.58	8.87	S85° 53' 10.37"E	14663392.0612	2239031.2294
L23	"BP1"	13+33.53			9.44	N68° 42' 38.16"E	14663391.4457	2239039.7870

Number	ALIGNMENT NAME	STATION	RADIUS	TANGENT	LENGTH	LINE / CHORD DIRECTION	START NORTHING	START EASTING
C32	BP2	8+35.00	201.33	194.55	203.05	S34° 30' 03.01"E	14663576.4321	2238933.3128
C31	BP2	10+38.05	80.00	73.72	76.62	S33° 02' 46.59"E	14663416.1006	2239043.5091
L33	"BP2"	11+14.66			112.36	S60° 28' 58.89"E	14663354.3037	2239083.7115
L32	"BP2"	12+27.02			150.00	S62° 57' 59.84"E	14663298.9468	2239181.4868
L31	"BP2"	13+77.02			47.98	S60° 28' 58.89"E	14663230.7704	2239315.0980

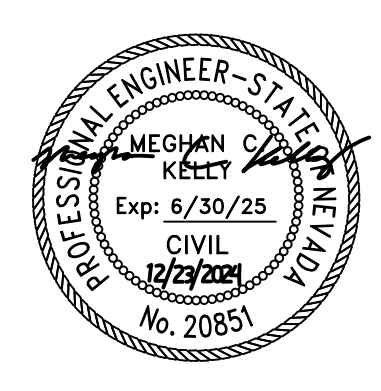
Number	ALIGNMENT NAME	STATION	RADIUS	TANGENT	LENGTH	LINE / CHORD DIRECTION	START NORTHING	START EASTING
L11	"SW"	10+00.00			18.78	S23° 09' 38.17"E	14662727.6383	2240259.4789
C11	SW	10+18.78	12.50	4.57	4.60	S12° 37' 23.55"E	14662710.3689	2240266.8666
L12	"SW"	10+23.38			12.59	S2° 05' 08.92"E	14662705.9075	2240267.8657
C12	SW	10+35.97	12.50	12.20	12.74	S31° 17' 03.91"E	14662693.3288	2240268.3238
L13	"SW"	10+48.71			17.04	S60° 28' 58.89"E	14662682.9061	2240274.6570
C13	SW	10+65.75	12.50	5.21	5.25	S48° 26' 46.41"E	14662674.5117	2240289.4840
L15	"SW"	10+71.00			10.65	S36° 24' 33.93"E	14662671.0534	2240293.3854
C14	SW	10+81.65	12.57	15.18	16.29	S70° 00' 03.05"E	14662662.4786	2240299.7095
L14	"SW"	10+97.95			24.29	N72° 45' 12.66"E	14662657.2879	2240313.9715

Point #	Elevation	Northing	Easting	Description
101	6252.22	14663684.82	2238318.58	RB CAP
102	6268.37	14663384.25	2239053.45	SET NAIL
103	6278.68	14663191.90	2239376.40	SET NAIL
104	6280.99	14663114.35	2239514.32	SET NAIL
105	6286.70	14663020.60	2239680.92	SET NAIL
106	6292.30	14662870.95	2239964.65	SET X
107	6288.80	14662793.74	2239893.17	MON CNTR DISK
108	6318.38	14662664.15	2240433.92	NDOT CAP



NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION

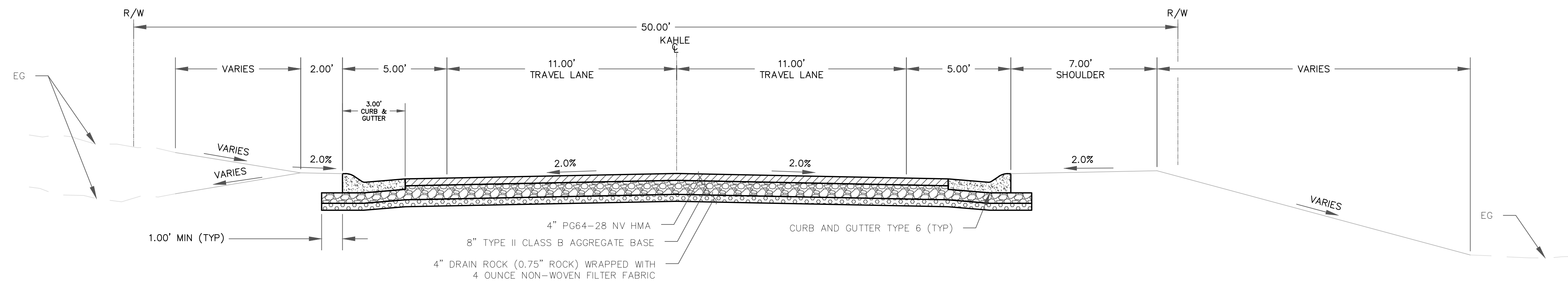
LOCATION CONTROL SHEET
 KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN: MJEK
 CHECKED: MK
 DATE: 11/2024
 SCALE: AS SHOWN
 PROJECT: KAHLE DRIVE COMPLETE STREETS SHEET

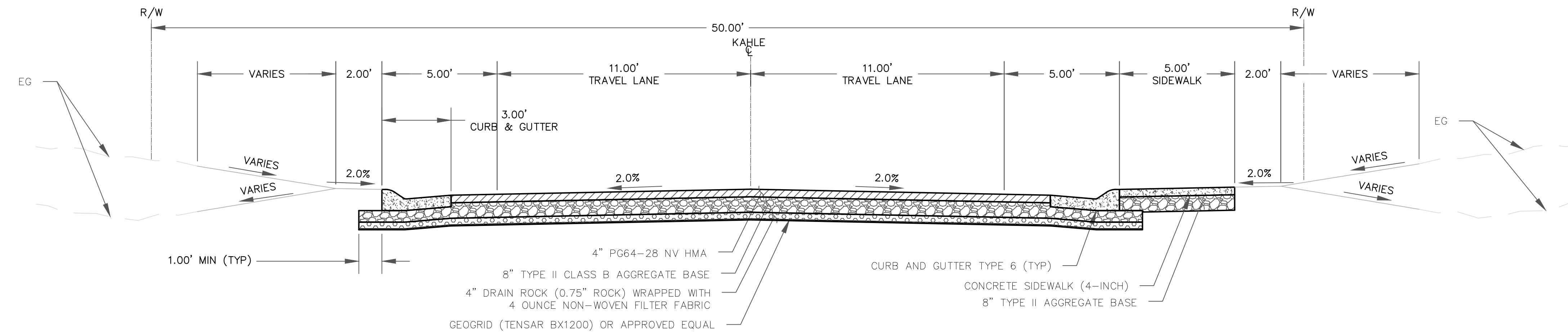


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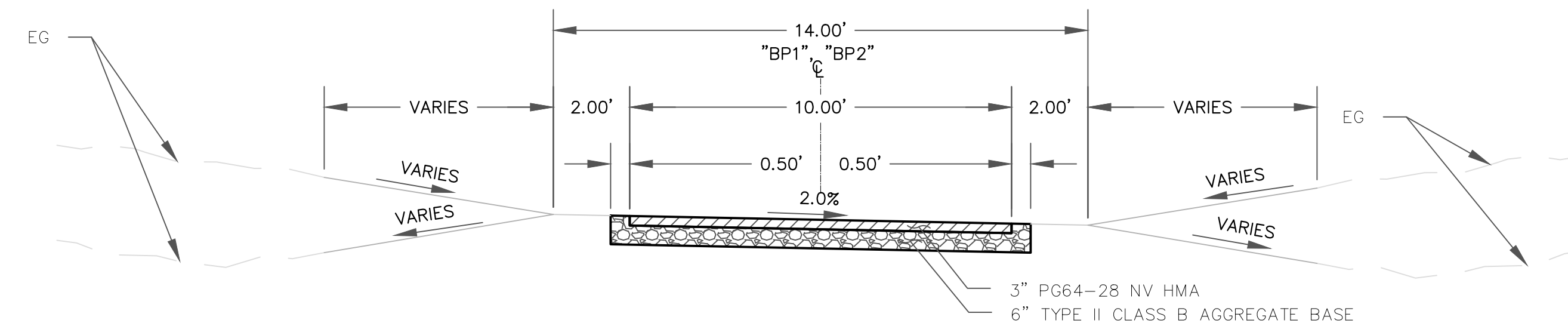
**KAHLE DRIVE
ROADWAY CROSS SECTION
"K" 28+50.00 TO "K" 33+50.00**

1
TY1 NOT TO SCALE



**KAHLE DRIVE
ROADWAY CROSS SECTION
"K" 10+00.00 TO "K" 28+50.00**

2
TY1 NOT TO SCALE



**BIKE PATH CROSS SECTION
"BP1" 10+00.00 TO "BP1" 13+00.00
"BP2" 10+00.00 TO "BP2" 14+25.00**

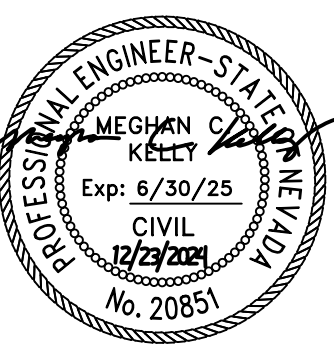
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TY1 NOT TO SCALE



REVISIONS

NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION

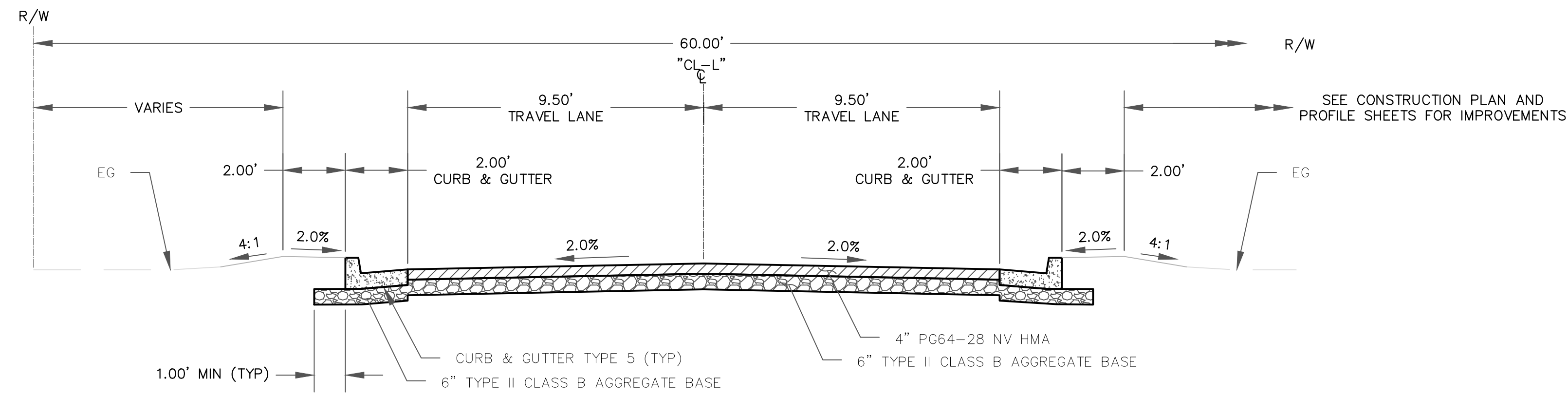
**TYPICAL SECTIONS
KAHLE DRIVE COMPLETE STREETS PROJECT**



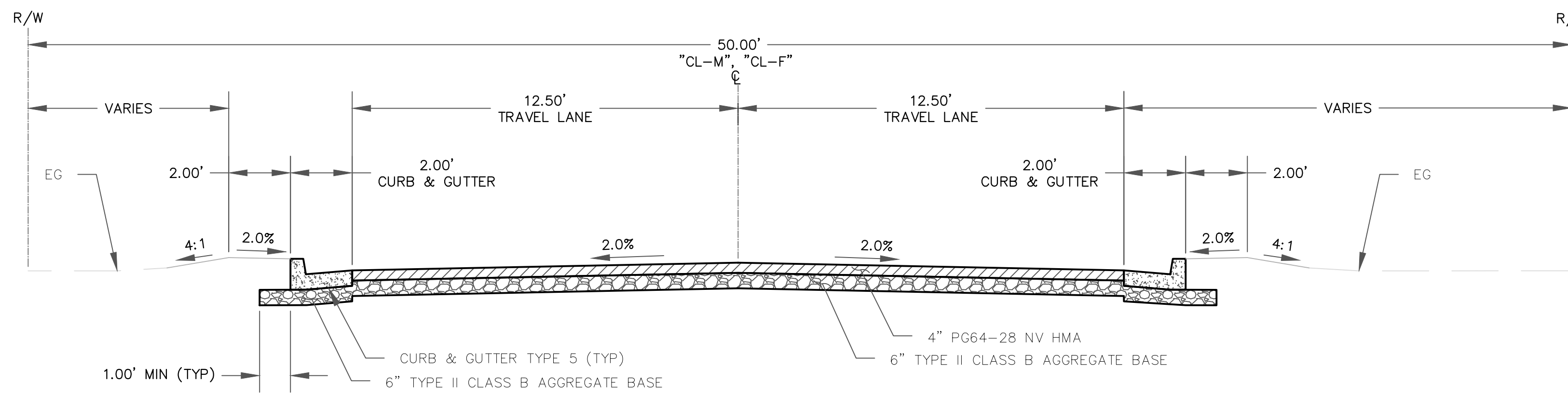
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DATE	11/2024
SCALE	AS SHOWN
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LAURA DRIVE CROSS SECTION
 "CL-L" 10+13.00 TO "CL-L" 10+60.00
 1
 TY2 NOT TO SCALE

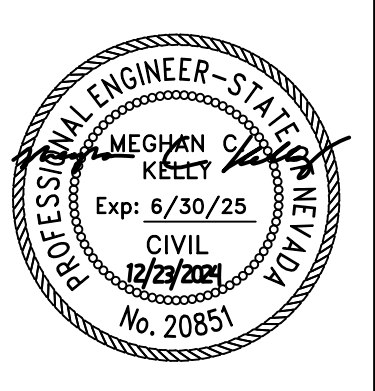


MICHELLE DRIVE & FARIS COURT CROSS SECTION
 "CL-M" 10+13.00 TO "CL-M" 10+60.00
 "CL-F" 10+13.00 TO "CL-F" 10+60.00
 2
 TY2 NOT TO SCALE



REVISIONS	
NO.	DESCRIPTION
X	XXXXXXXXXX

TYPICAL SECTIONS
 KAHLE DRIVE COMPLETE STREETS PROJECT

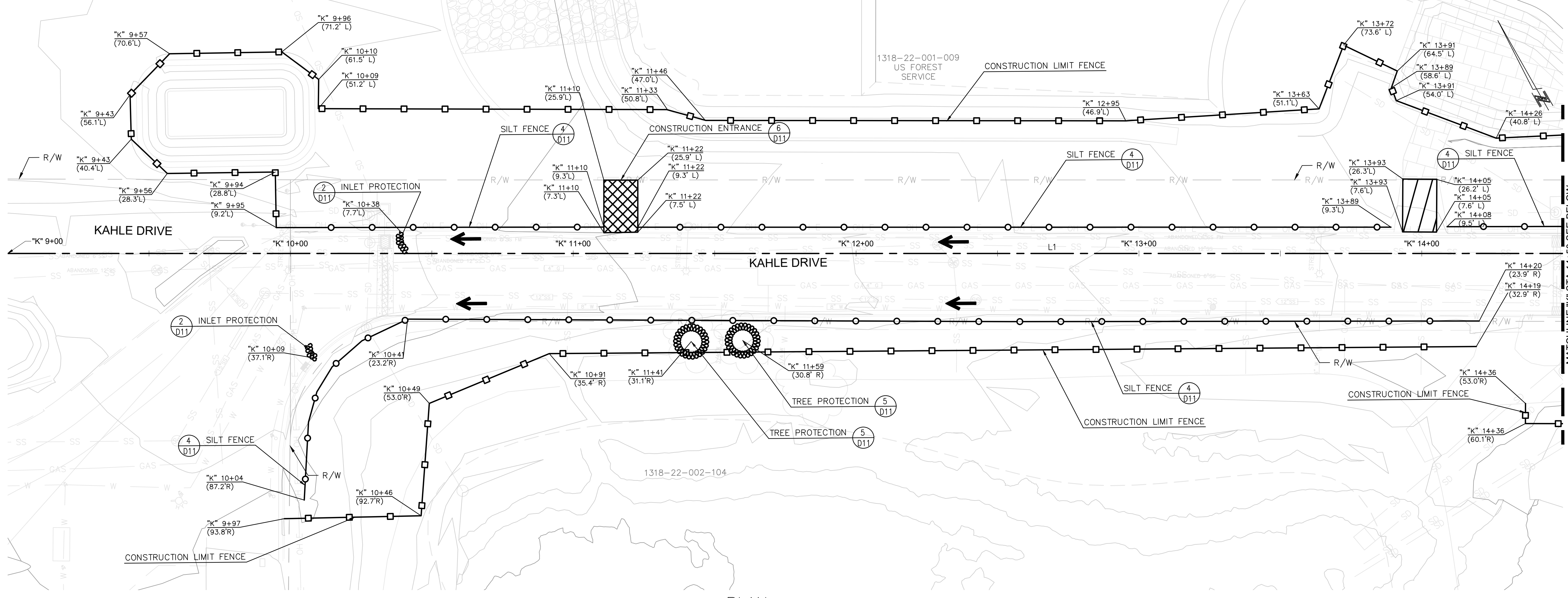


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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET

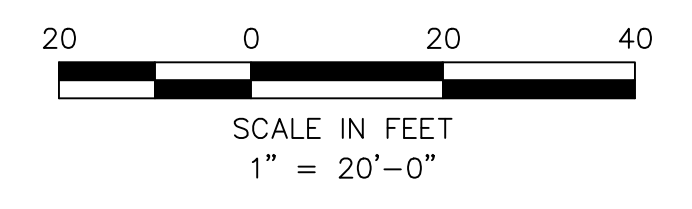


TY2
 7 OF 81

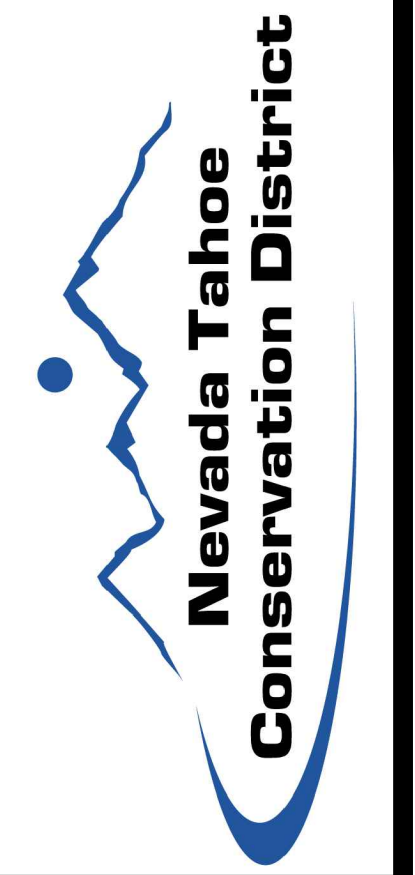
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PLAN



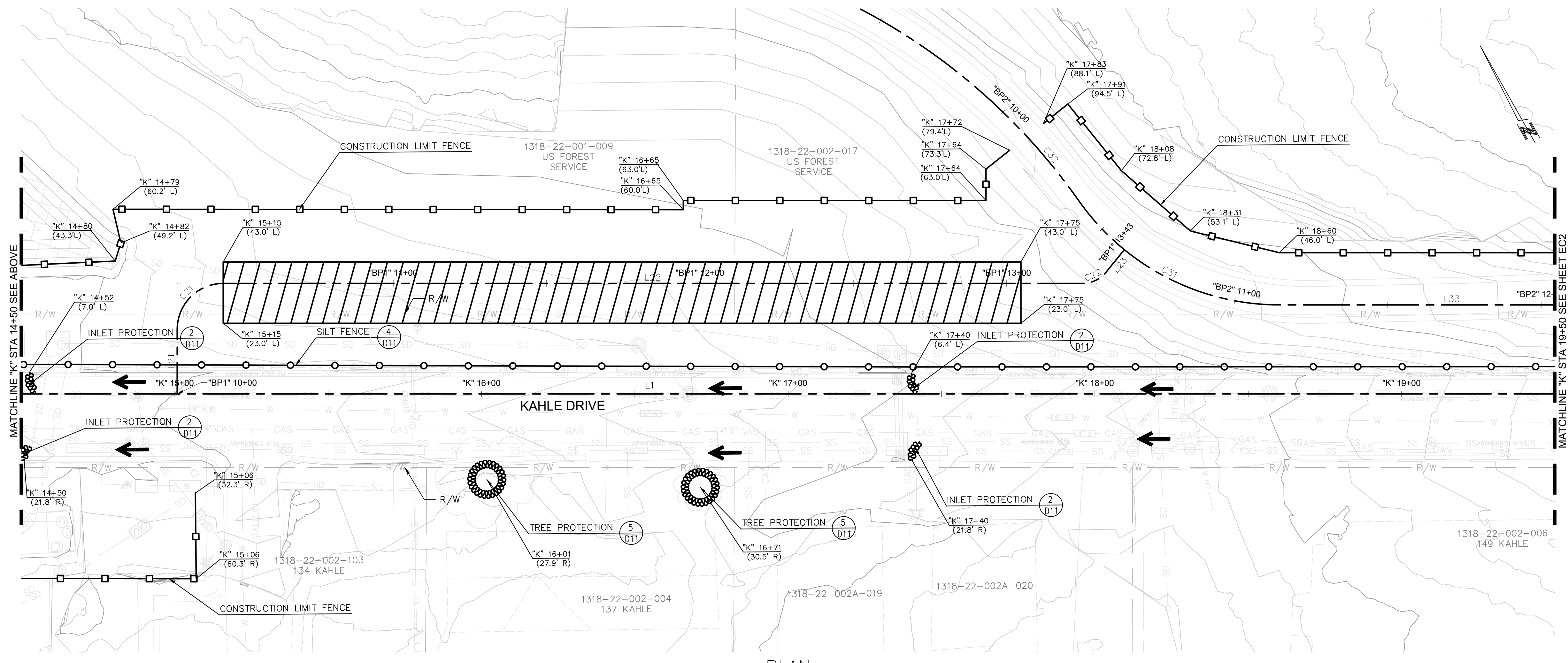
- CONSTRUCTION NOTES:**
- NO TREE REMOVAL ALLOWED UNLESS SPECIFIED IN PLANS OR DIRECTED BY ENGINEER. SEE DEMOLITION PLAN SHEETS R1-R4 FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL DELINEATE STAGING AREAS OUTSIDE CONSTRUCTION AREA WITH CONSTRUCTION AND SILT FENCING OR INLET PROTECTION IF PAVED.
 - SEE DEWATERING NOTES ON G3, DETAIL PLANS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 60' X 60' PAVED STAGING AREA IS AVAILABLE AT DOUGLAS COUNTY OWNED PARCEL 1318-23-401-051 (NOT SHOWN ON PLANS). ADDITIONAL STAGING MUST BE SECURED BY CONTRACTOR.



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X	XX/XX/XX	XXX	DESCRIPTION

REVISIONS

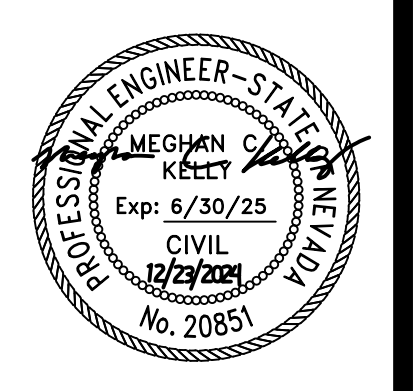
TEMPORARY EROSION CONTROL PLAN
"K" 9+00 TO "K" 19+50
KAHLE DRIVE COMPLETE STREETS PROJECT



PLAN

LEGEND

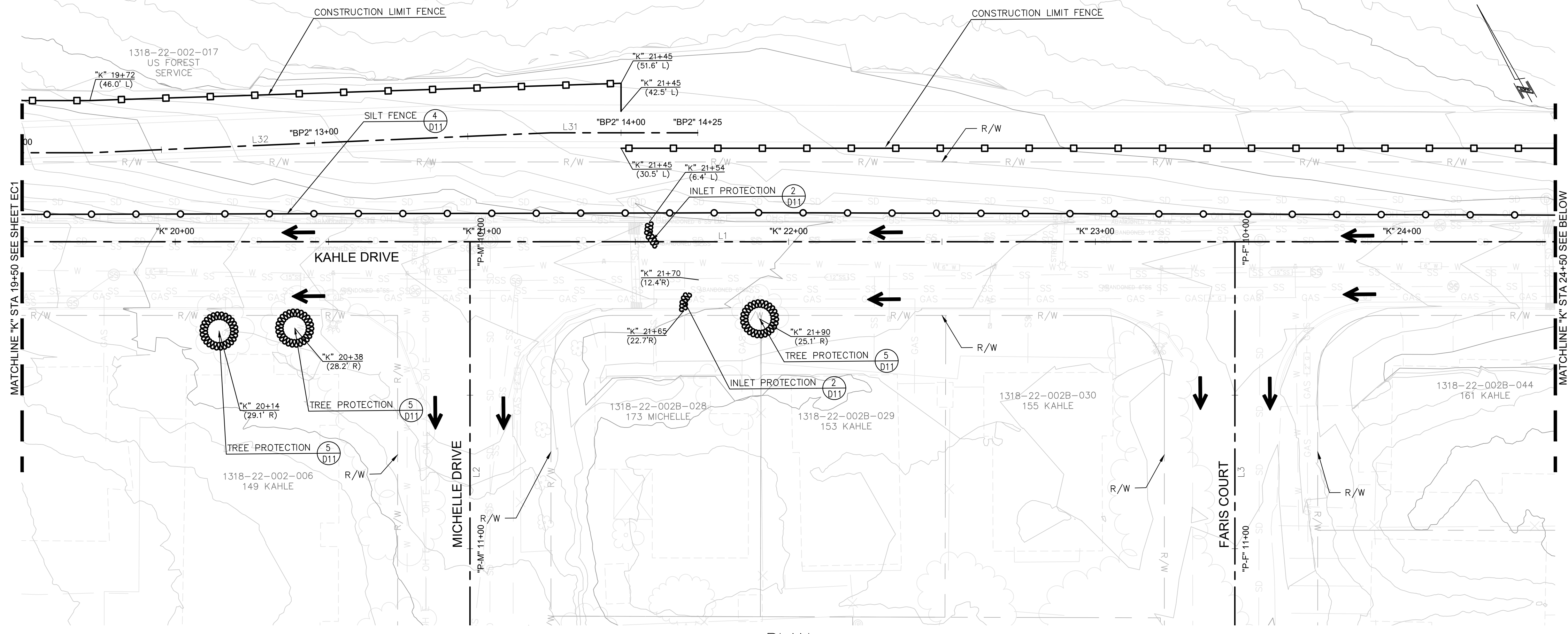
- STAGING AREA
- CONSTRUCTION ENTRANCE
- CONSTRUCTION FENCE
- SILT FENCE
- TREE PROTECTION
- INLET PROTECTION
- FLOW DIRECTION



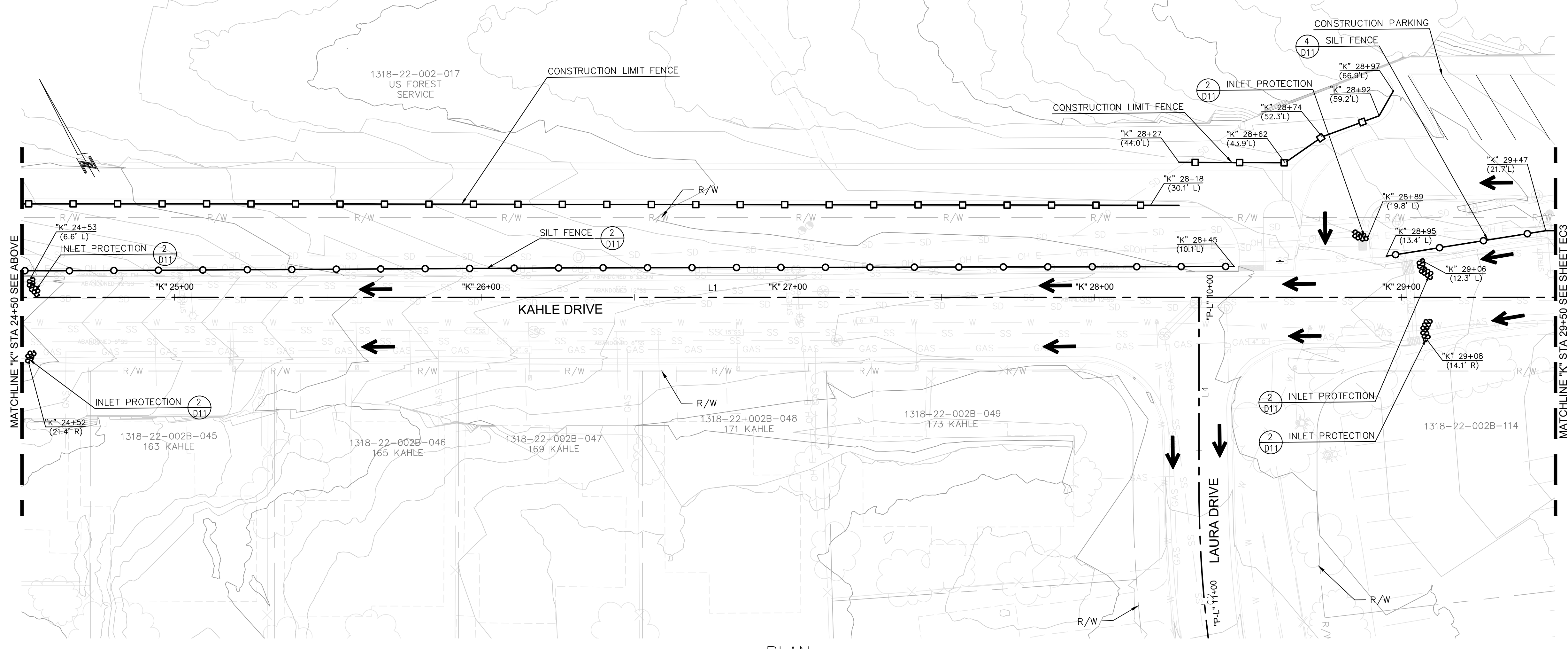
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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	8 OF 81

EC1

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PLAN



PLAN



CONSTRUCTION NOTES:

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2. CONTRACTOR SHALL DELINEATE STAGING AREAS OUTSIDE CONSTRUCTION AREA WITH CONSTRUCTION AND SILT FENCING OR INLET PROTECTION IF PAVED.
3. SEE DEWATERING NOTES ON G3, DETAIL PLANS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. 60' X 60' PAVED STAGING AREA IS AVAILABLE AT DOUGLAS COUNTY OWNED PARCEL 1318-23-401-051 (NOT SHOWN ON PLANS). ADDITIONAL STAGING MUST BE SECURED BY CONTRACTOR.

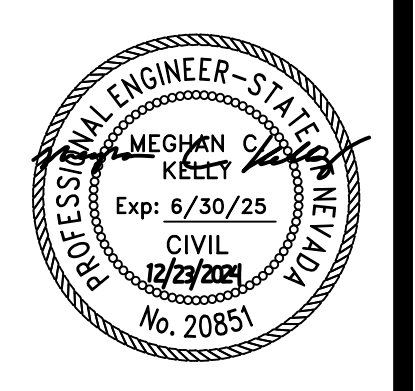
LEGEND

- STAGING AREA
- CONSTRUCTION ENTRANCE
- CONSTRUCTION FENCE
- SILT FENCE
- TREE PROTECTION
- INLET PROTECTION
- FLOW DIRECTION



REVISIONS	
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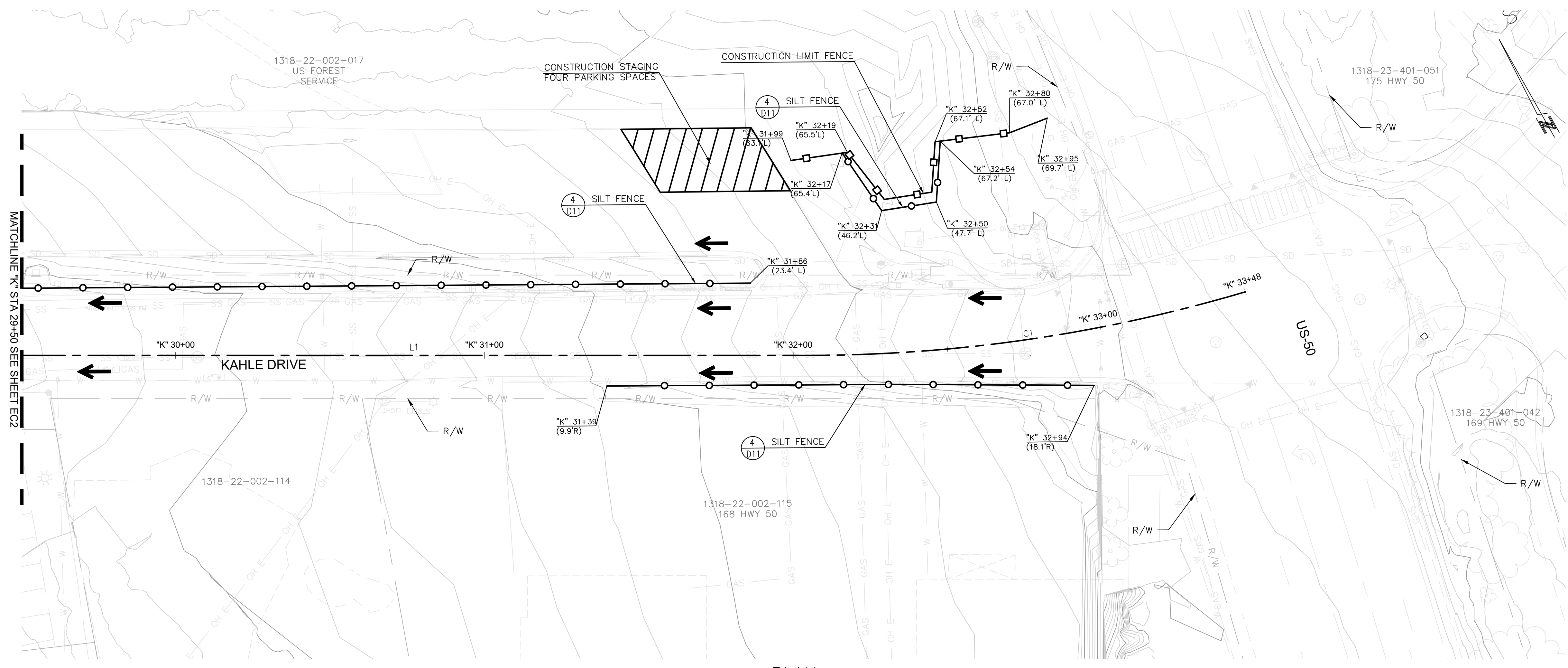
TEMPORARY EROSION CONTROL PLAN
"K" 19+50 TO "K" 29+50
KAHLE DRIVE COMPLETE STREETS PROJECT



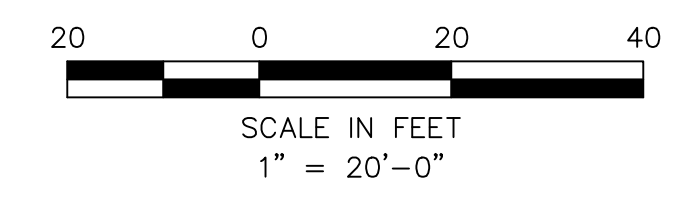
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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



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PLAN



CONSTRUCTION NOTES:

1. NO TREE REMOVAL ALLOWED UNLESS SPECIFIED IN PLANS OR DIRECTED BY ENGINEER. SEE DEMOLITION PLAN SHEETS R1-R4 FOR ADDITIONAL INFORMATION.
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3. SEE DEWATERING NOTES ON G3, DETAIL PLANS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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REVISIONS

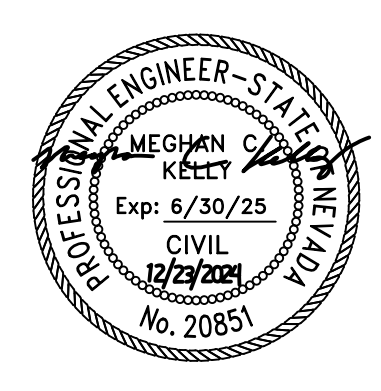
NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION

LEGEND

- STAGING AREA
- CONSTRUCTION ENTRANCE
- CONSTRUCTION FENCE
- SILT FENCE
- TREE PROTECTION
- INLET PROTECTION
- FLOW DIRECTION



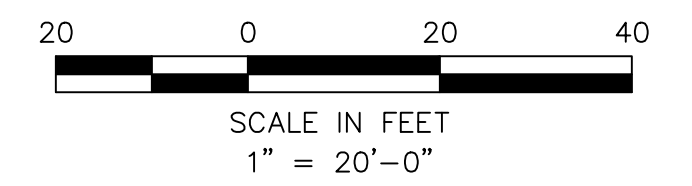
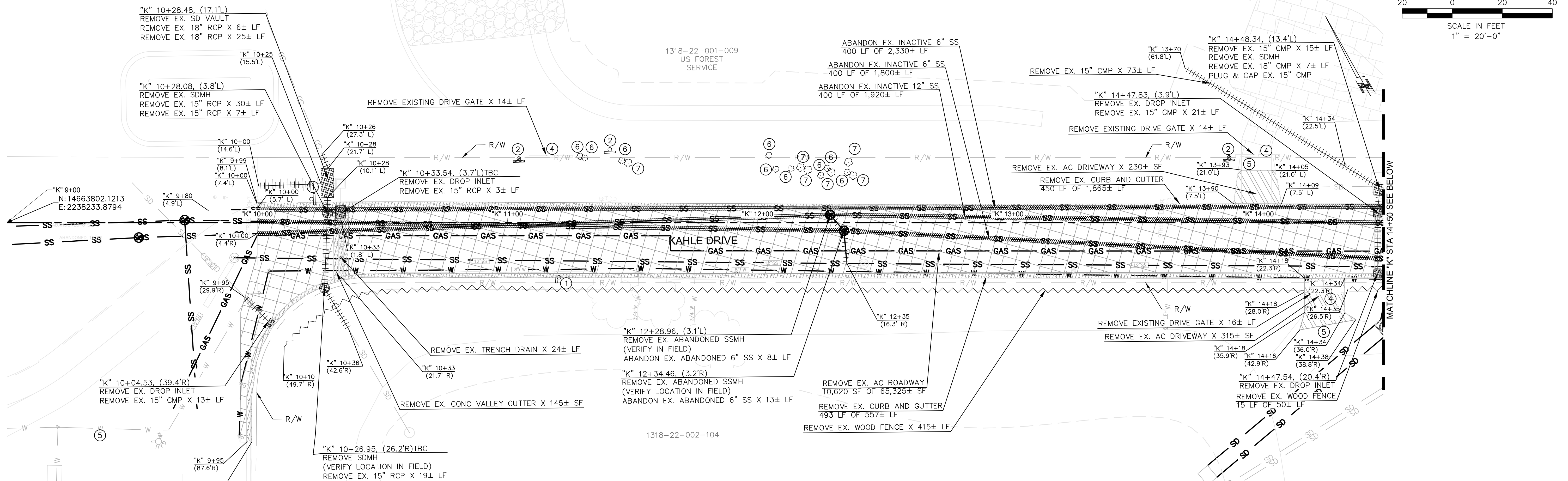
TEMPORARY EROSION CONTROL PLAN
"K" 29+50 TO "K" 33+50
KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN MJEK
CHECKED MK
DATE 11/2024
SCALE AS SHOWN
PROJECT KAHLE DRIVE COMPLETE STREETS SHEET

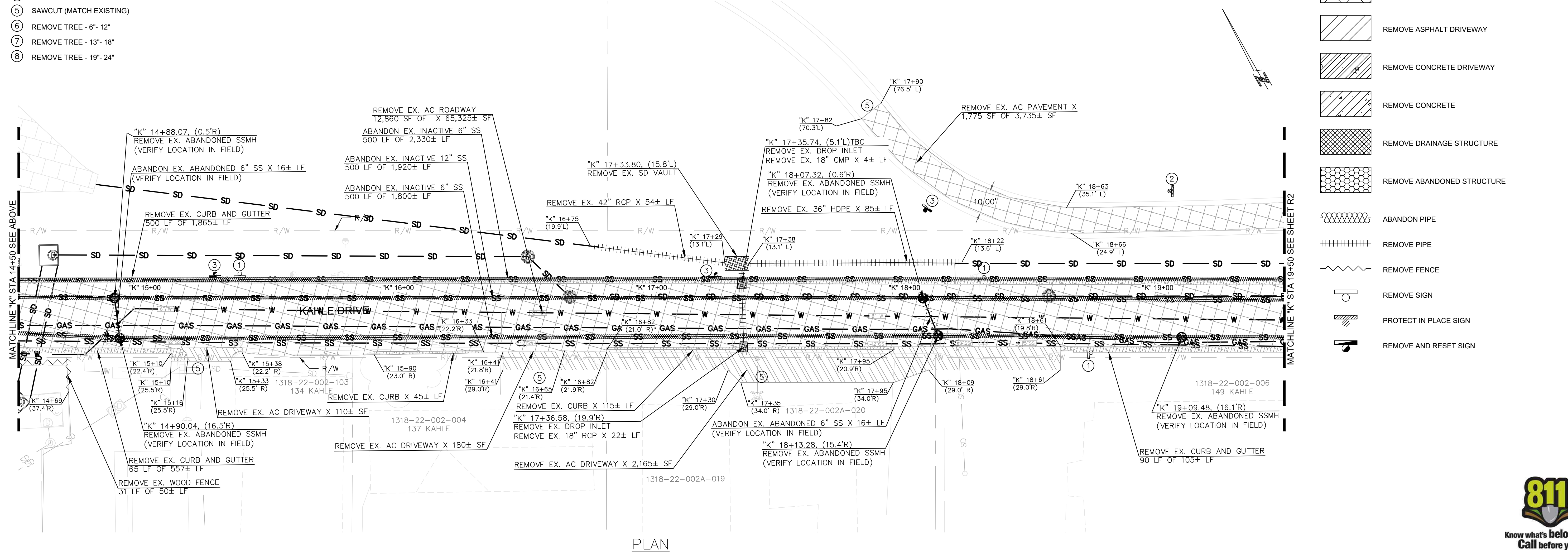


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- KEY NOTES (DEMOLITION):**
- ① REMOVE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ② PROTECT IN PLACE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ③ REMOVE AND RESET SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ④ REMOVE DRIVE GATE.
 - ⑤ SAWCUT (MATCH EXISTING)
 - ⑥ REMOVE TREE - 6'- 12'
 - ⑦ REMOVE TREE - 13'- 18'
 - ⑧ REMOVE TREE - 19'- 24'

PLAN



PLAN

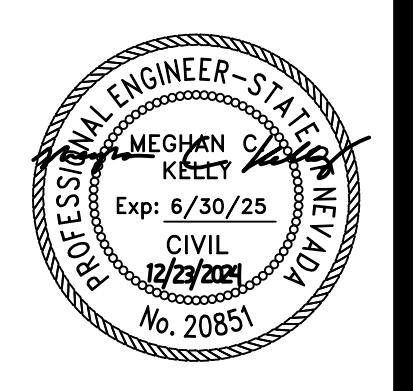
LEGEND

- REMOVE ASPHALT PAVEMENT
- REMOVE ASPHALT DRIVEWAY
- REMOVE CONCRETE DRIVEWAY
- REMOVE CONCRETE
- REMOVE DRAINAGE STRUCTURE
- REMOVE ABANDONED STRUCTURE
- ABANDON PIPE
- REMOVE PIPE
- REMOVE FENCE
- REMOVE SIGN
- PROTECT IN PLACE SIGN
- REMOVE AND RESET SIGN



REVISIONS	
NO.	DESCRIPTION

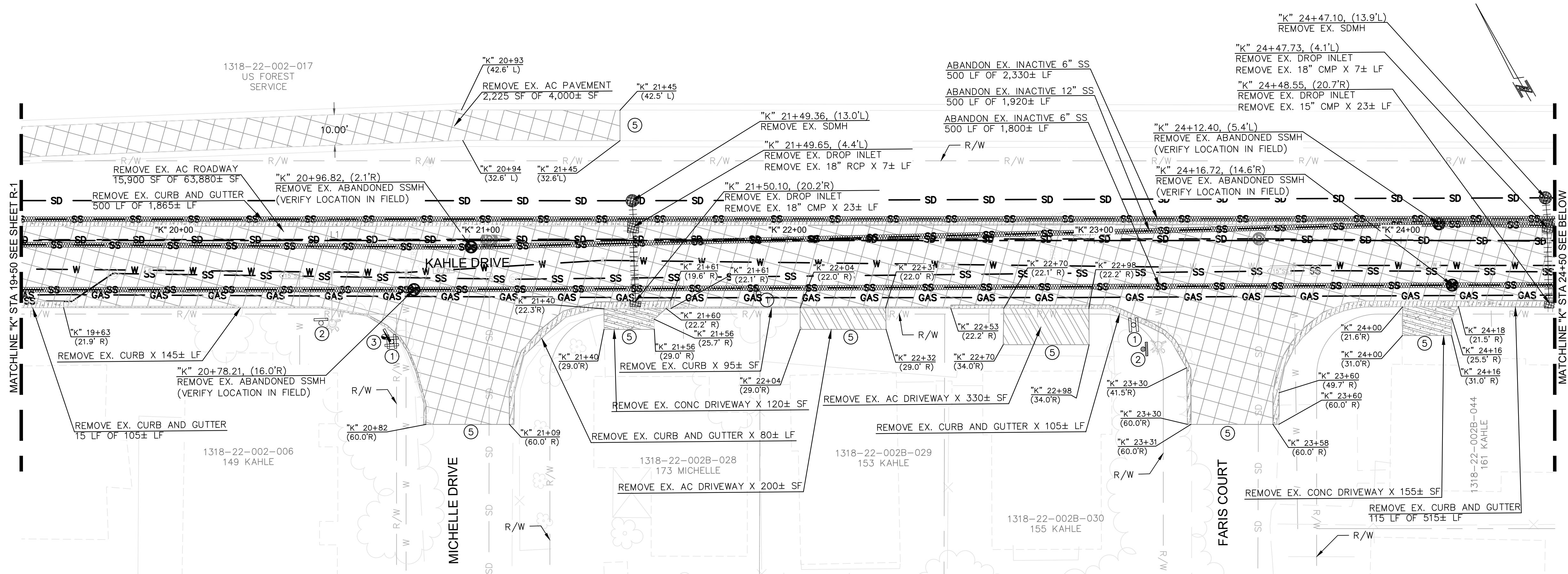
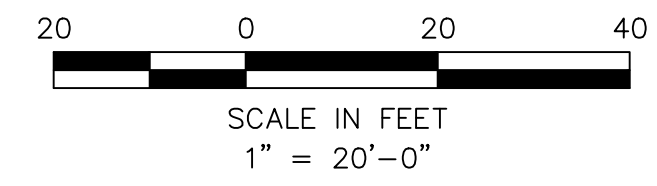
**DEMOLITION PLAN "K" 9+00 TO "K" 19+50
KAHLE DRIVE COMPLETE STREETS PROJECT**



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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET

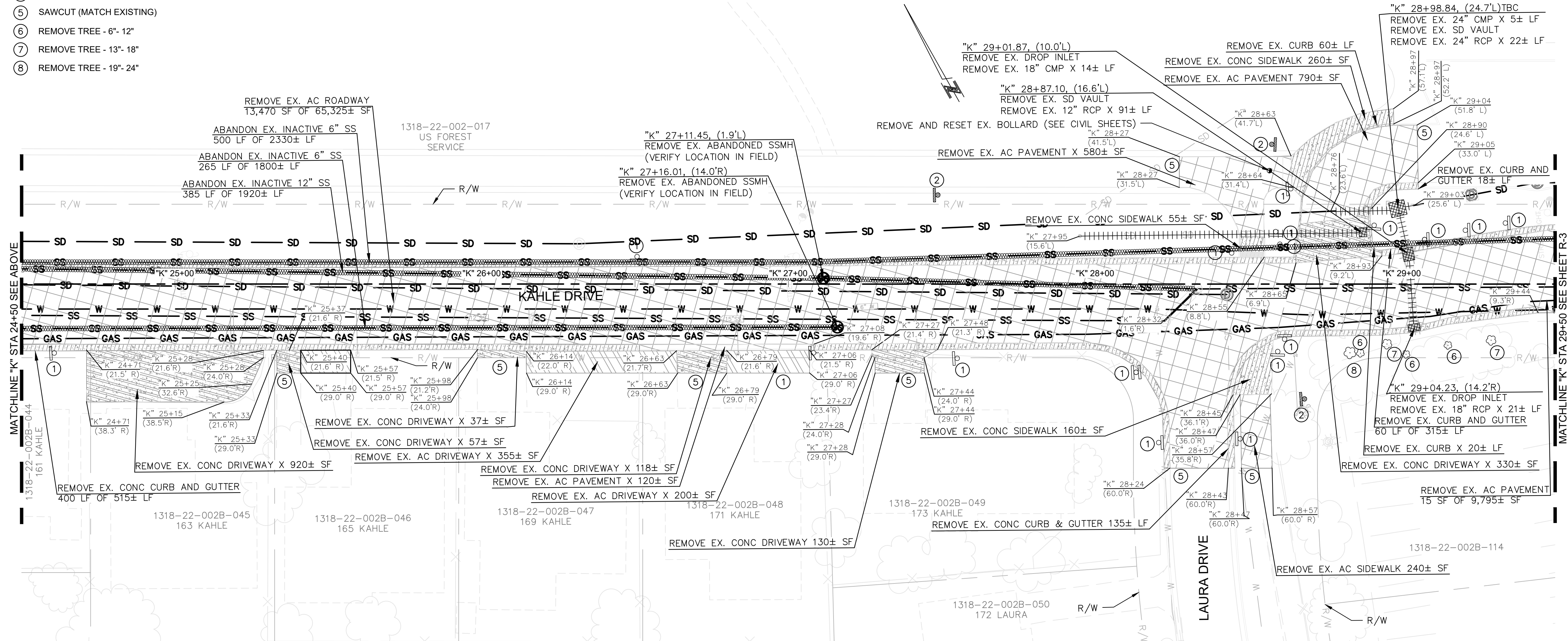


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- KEY NOTES (DEMOLITION):**
- ① REMOVE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ② PROTECT IN PLACE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ③ REMOVE AND RESET SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ④ REMOVE DRIVE GATE.
 - ⑤ SAWCUT (MATCH EXISTING)
 - ⑥ REMOVE TREE - 6" - 12"
 - ⑦ REMOVE TREE - 13" - 18"
 - ⑧ REMOVE TREE - 19" - 24"

PLAN



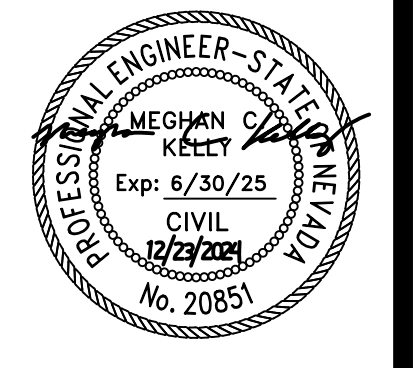
PLAN

LEGEND

- REMOVE ASPHALT PAVEMENT
- REMOVE ASPHALT DRIVEWAY
- REMOVE CONCRETE DRIVEWAY
- REMOVE CONCRETE
- REMOVE DRAINAGE STRUCTURE
- REMOVE ABANDONED STRUCTURE
- ABANDON PIPE
- REMOVE PIPE
- REMOVE FENCE
- REMOVE SIGN
- PROTECT IN PLACE SIGN
- REMOVE AND RESET SIGN

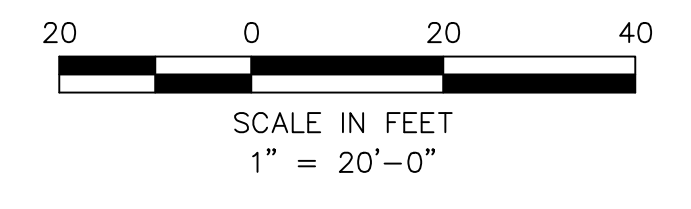
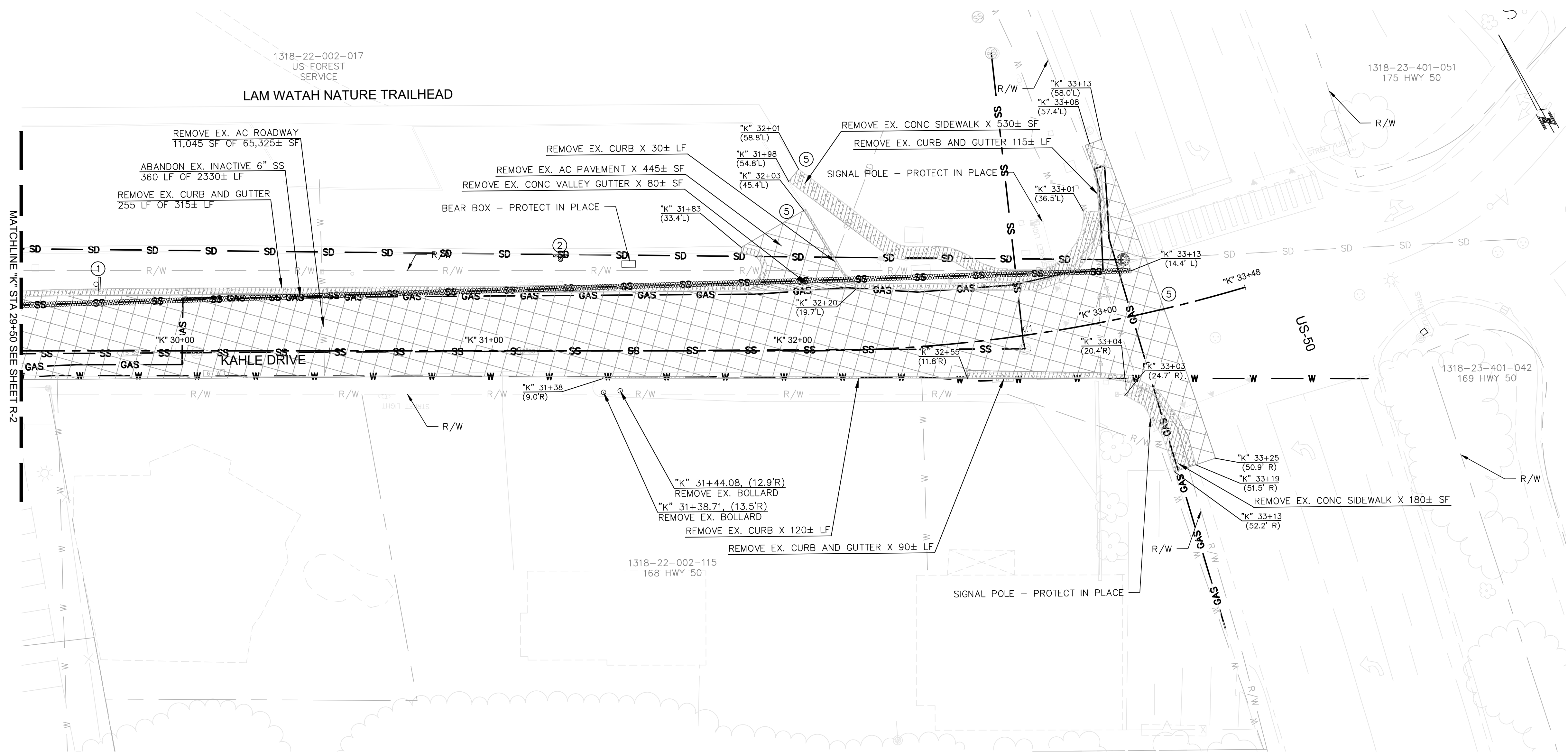
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NO.	DESCRIPTION

**DEMOLITION PLAN "K" 19+50 TO "K" 29+50
KAHLE DRIVE COMPLETE STREETS PROJECT**



DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	R2





PLAN

- KEY NOTES (DEMOLITION):**
- ① REMOVE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ② PROTECT IN PLACE SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ③ REMOVE AND RESET SIGN. (SEE SIGNING AND STRIPING PLAN SHEETS.)
 - ④ REMOVE DRIVE GATE.
 - ⑤ SAWCUT (MATCH EXISTING)
 - ⑥ REMOVE TREE - 6"- 12"
 - ⑦ REMOVE TREE - 13"- 18"
 - ⑧ REMOVE TREE - 19"- 24"

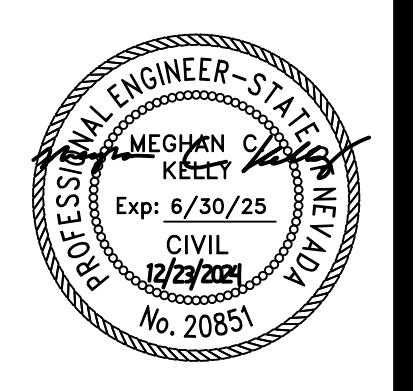
LEGEND

- REMOVE ASPHALT PAVEMENT
- REMOVE ASPHALT DRIVEWAY
- REMOVE CONCRETE DRIVEWAY
- REMOVE CONCRETE
- REMOVE DRAINAGE STRUCTURE
- REMOVE ABANDONED STRUCTURE
- ABANDON PIPE
- REMOVE PIPE
- REMOVE FENCE
- REMOVE SIGN
- PROTECT IN PLACE SIGN
- REMOVE AND RESET SIGN



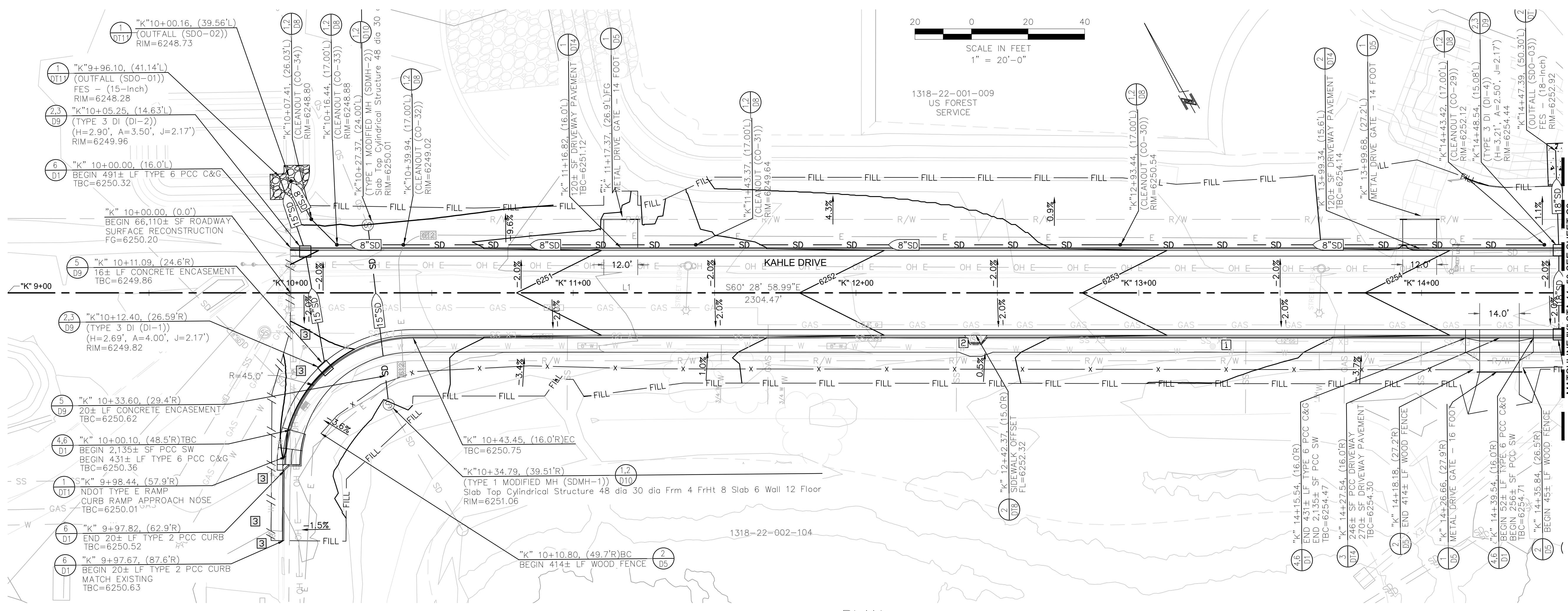
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NO.	DESCRIPTION

**DEMOLITION PLAN "K" 29+50 TO "K" 33+50
KAHLE DRIVE COMPLETE STREETS PROJECT**



DESIGNED/DRAWN MJEK
CHECKED MK
DATE 11/2024
SCALE AS SHOWN
PROJECT KAHLE DRIVE COMPLETE STREETS SHEET





PLAN

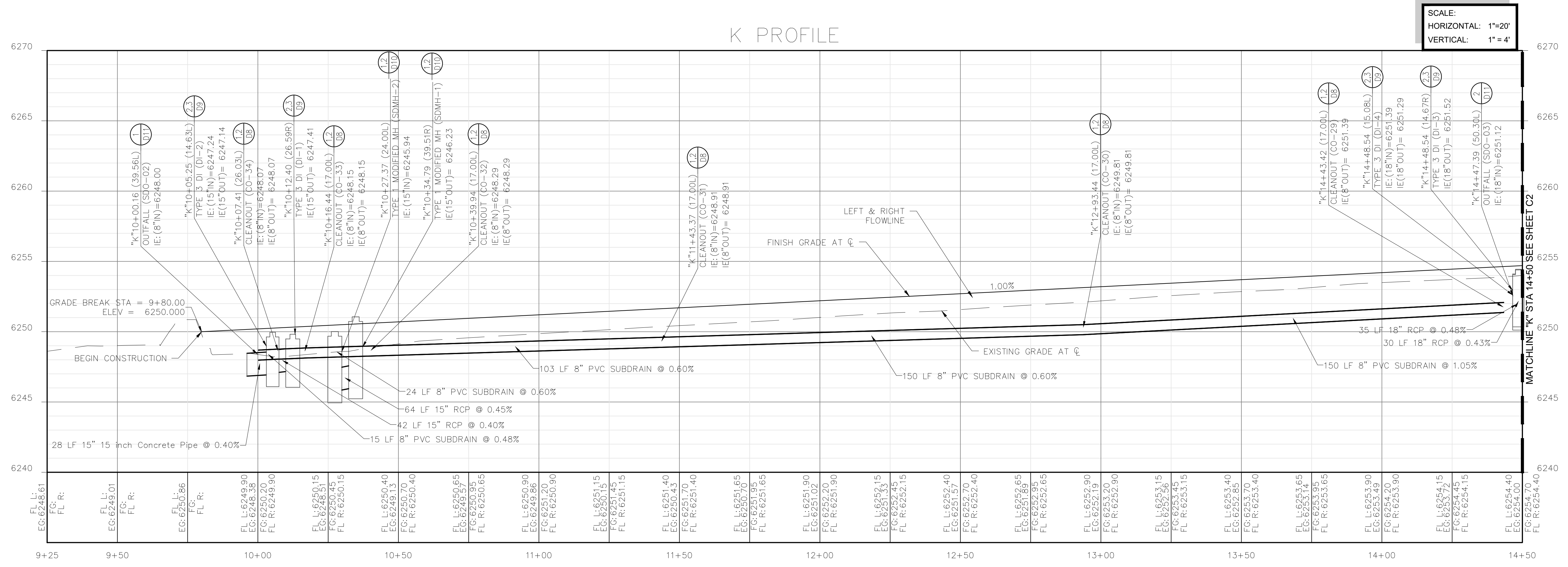
- KEY NOTES:**
- 1 STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
 - 2 SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
 - 3 WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE. SEE DETAIL 5,6,7/D7.
 - 4 GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
 - 5 WATER METER; ADJUST METER BOX AND COVER TO GRADE.
 - 6 SANITARY SEWER CLEANOUT; ADJUST CLEANOUT BOX AND COVER TO GRADE. SEE DETAIL 6/D8.

- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



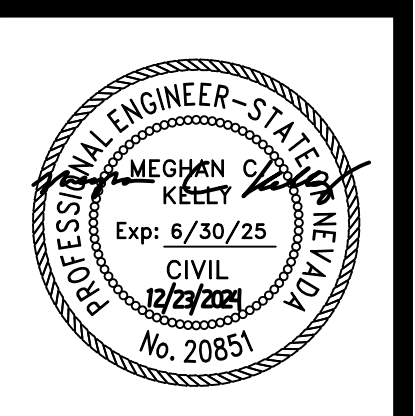
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1	SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
2	SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
3	SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
4	SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.

K PROFILE



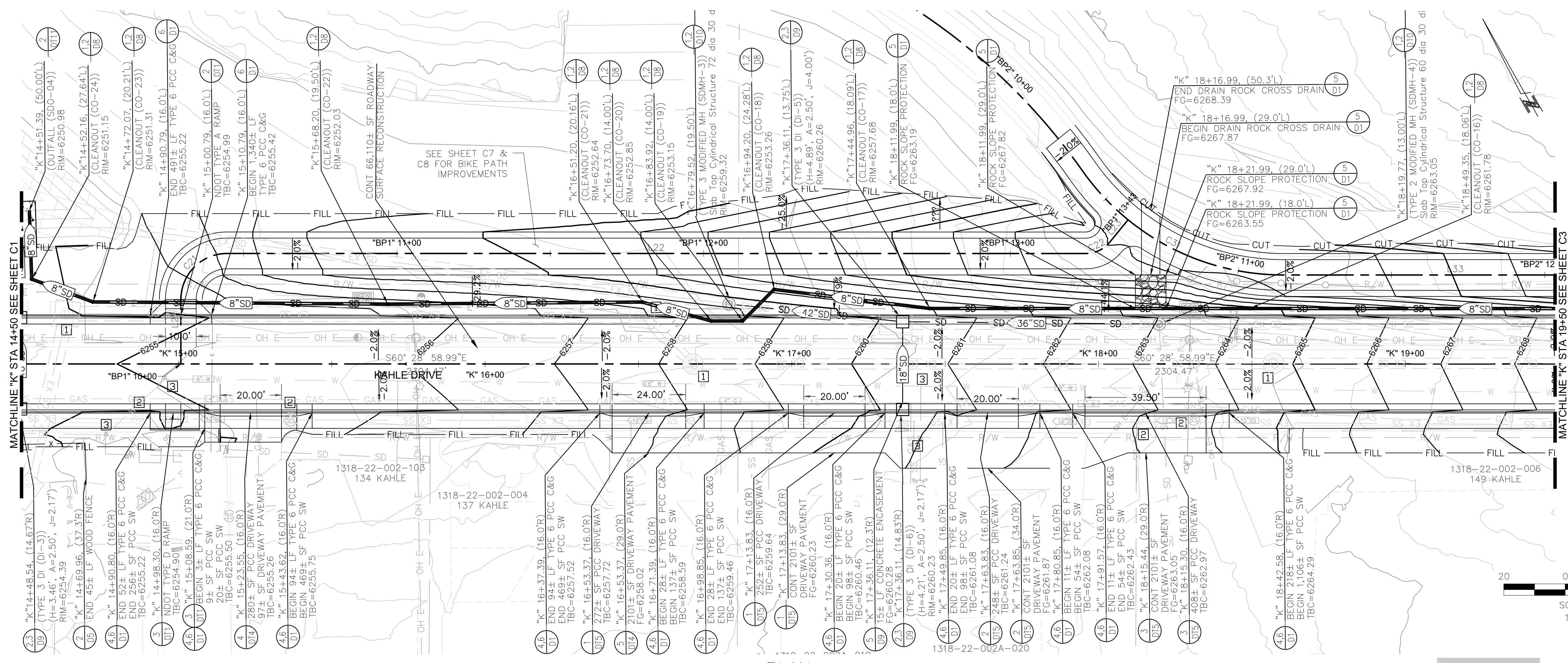
PROFILE

CONSTRUCTION PLAN AND PROFILE
"K" 9+00 TO "K" 14+50
KAHLE DRIVE COMPLETE STREETS PROJECT



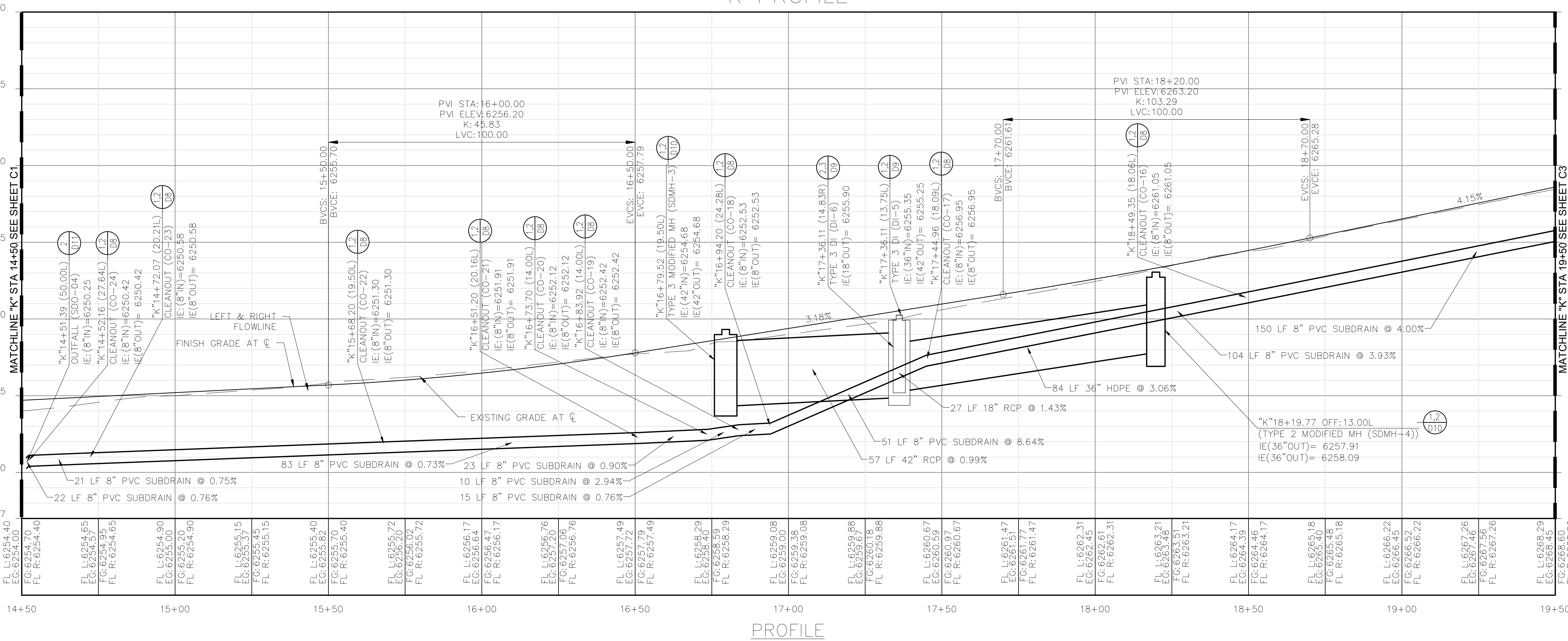
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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	C1





PLAN

K PROFILE



PROFILE

- KEY NOTES:**
- 1 STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
 - 2 SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
 - 3 WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE. SEE DETAIL 5,6,7/D7.
 - 4 GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
 - 5 WATER METER; ADJUST METER BOX AND COVER TO GRADE.
 - 6 SANITARY SEWER CLEANOUT; ADJUST CLEANOUT BOX AND COVER TO GRADE. SEE DETAIL 6/D8.

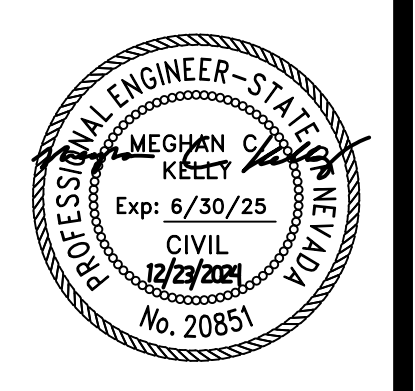
- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS D11-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: 1"=4'



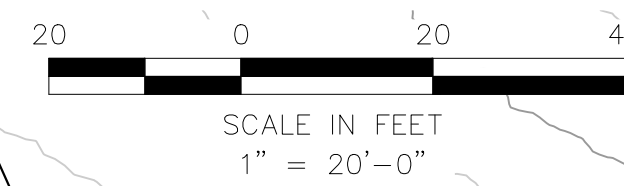
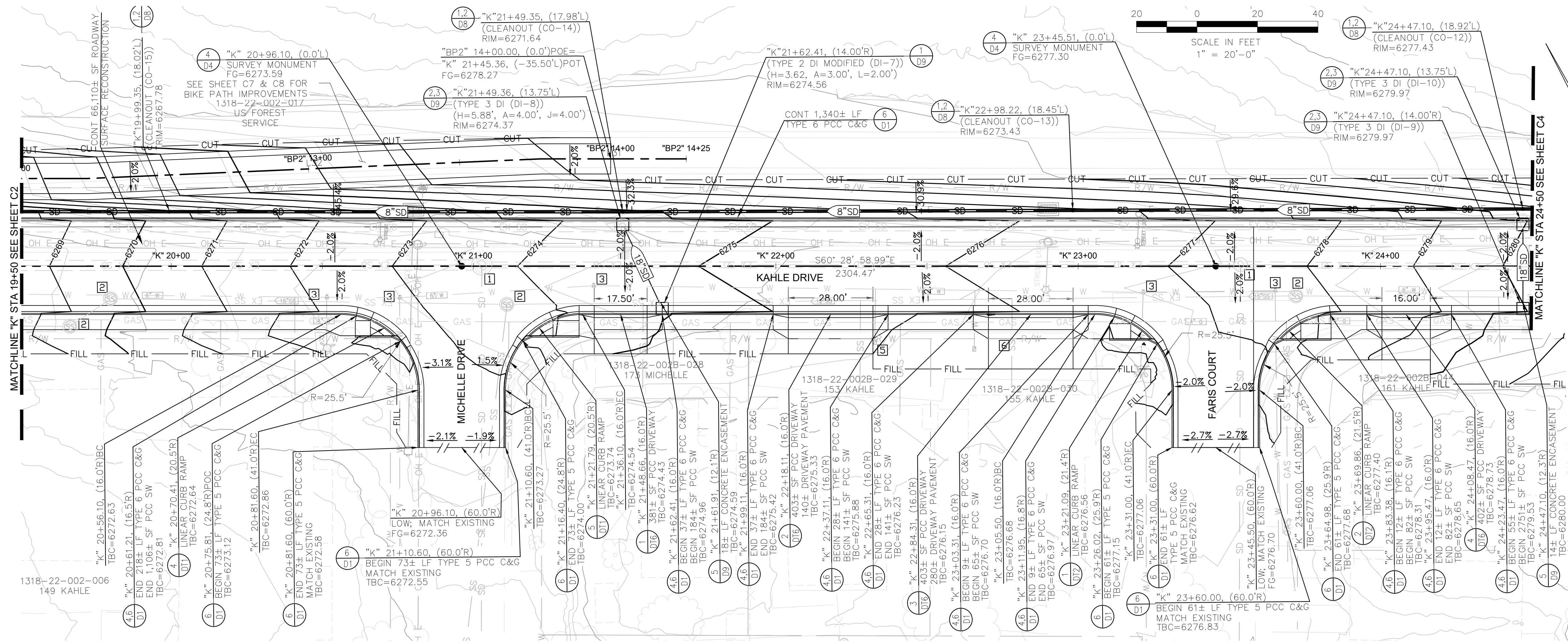
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CONSTRUCTION PLAN AND PROFILE
"K" 14+50 TO "K" 19+50
KAHLE DRIVE COMPLETE STREETS PROJECT



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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	C2



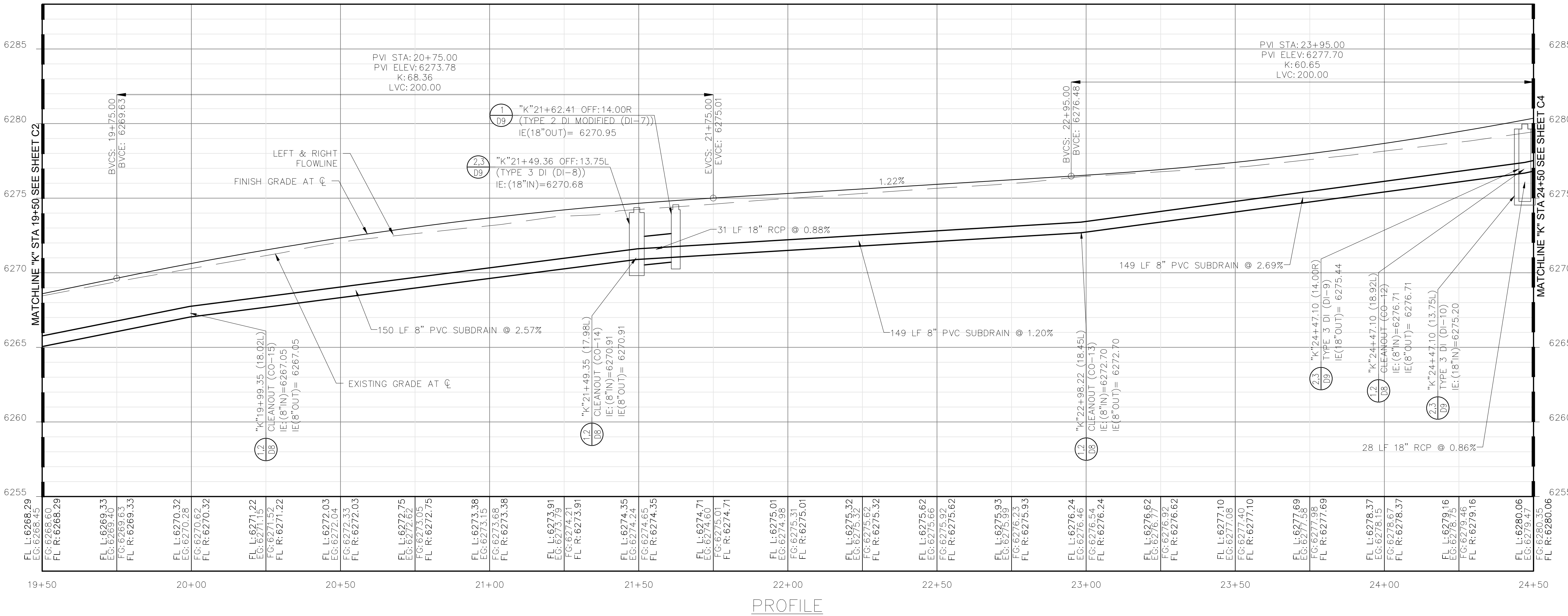


- KEY NOTES:**
- 1 STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
 - 2 SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
 - 3 WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE. SEE DETAIL 5,6,7/D7.
 - 4 GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
 - 5 WATER METER; ADJUST METER BOX AND COVER TO GRADE.
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- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.

PLAN
K PROFILE

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: 1"=4'



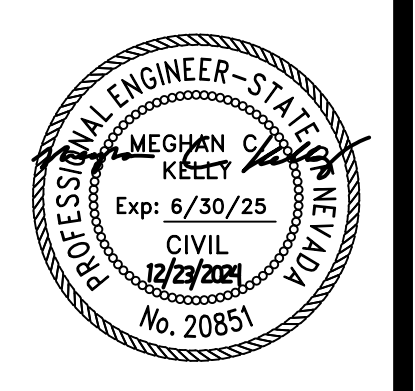
PROFILE



REVISIONS

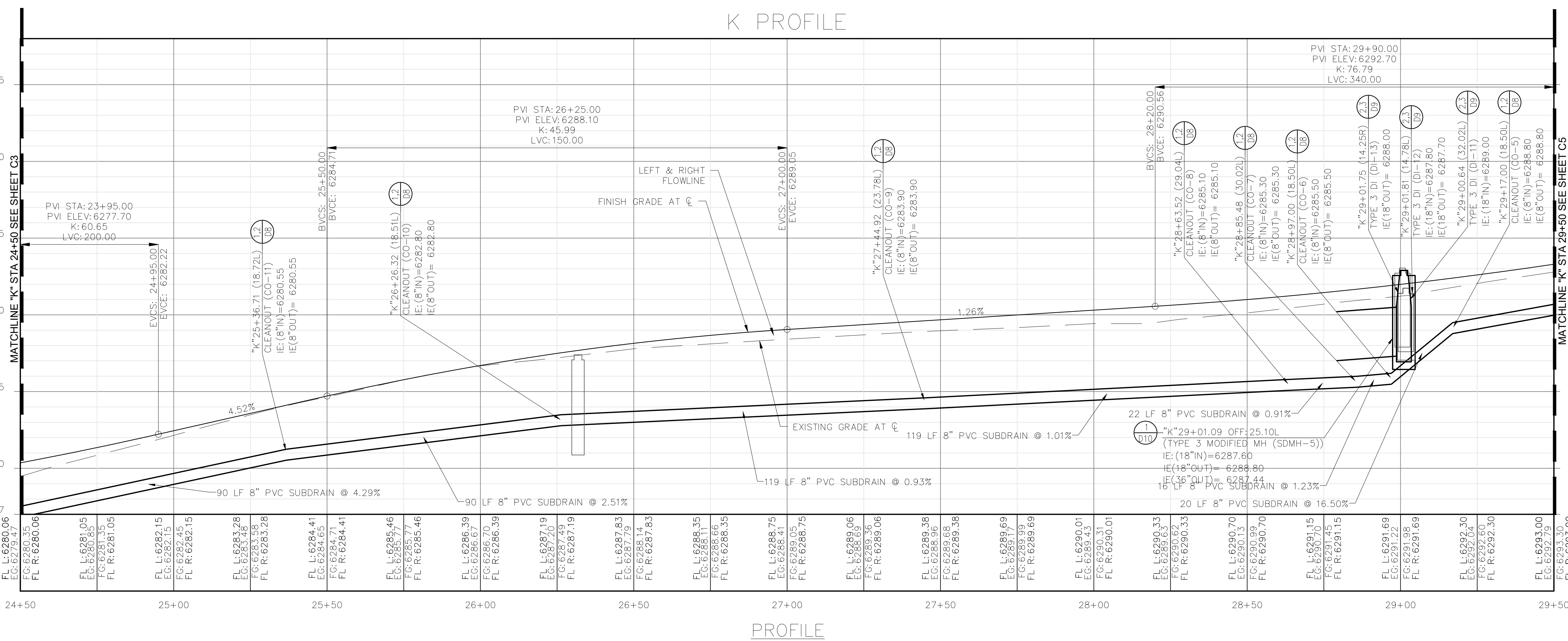
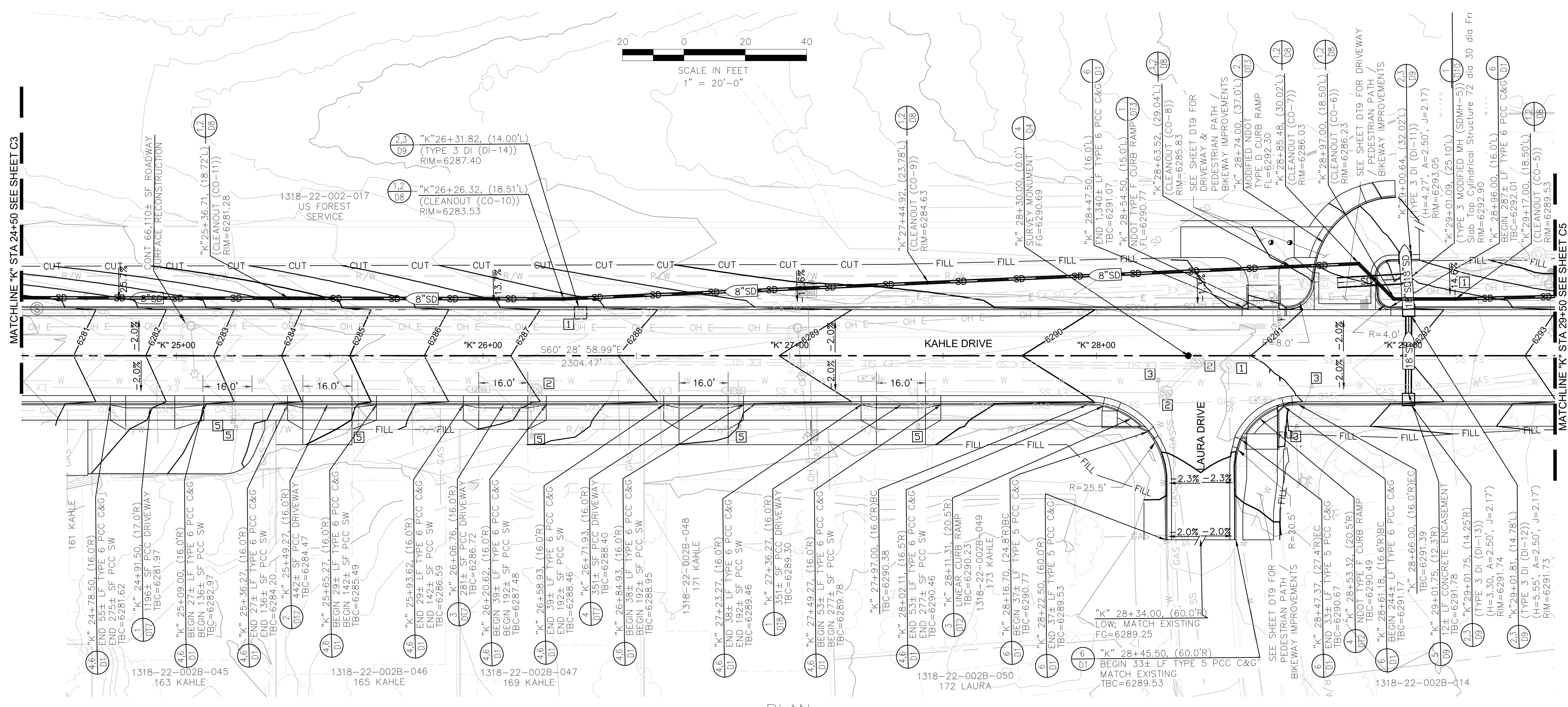
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CONSTRUCTION PLAN AND PROFILE
"K" 19+50 TO "K" 24+50
KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	C3

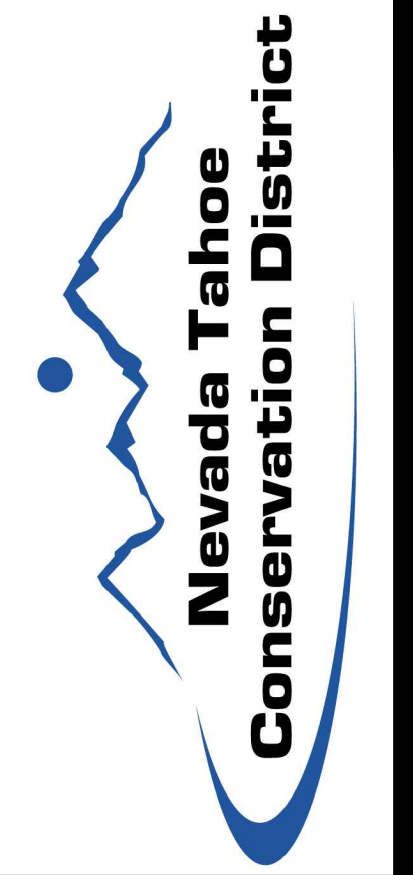




- KEY NOTES:**
- 1 STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
 - 2 SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
 - 3 WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE. SEE DETAIL 5,6,7/D7.
 - 4 GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
 - 5 WATER METER; ADJUST METER BOX AND COVER TO GRADE.
 - 6 SANITARY SEWER CLEANOUT; ADJUST CLEANOUT BOX AND COVER TO GRADE. SEE DETAIL 6/D8.

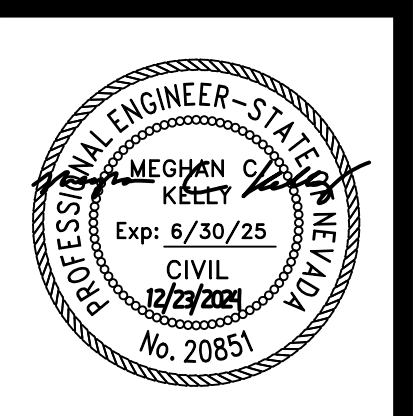
- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: 1"=4'



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NO.	DESCRIPTION

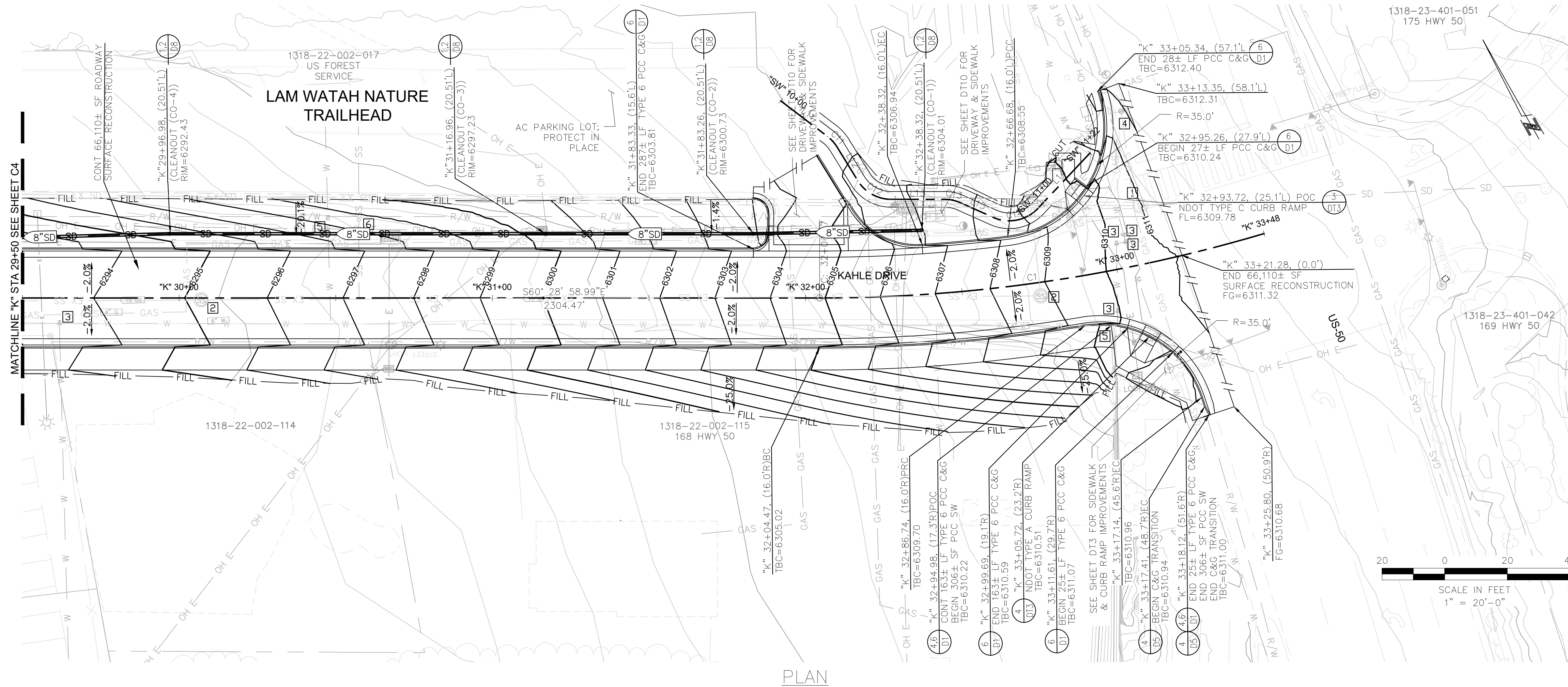
CONSTRUCTION PLAN AND PROFILE
"K" 24+50 TO "K" 29+50
KAHLE DRIVE COMPLETE STREETS PROJECT



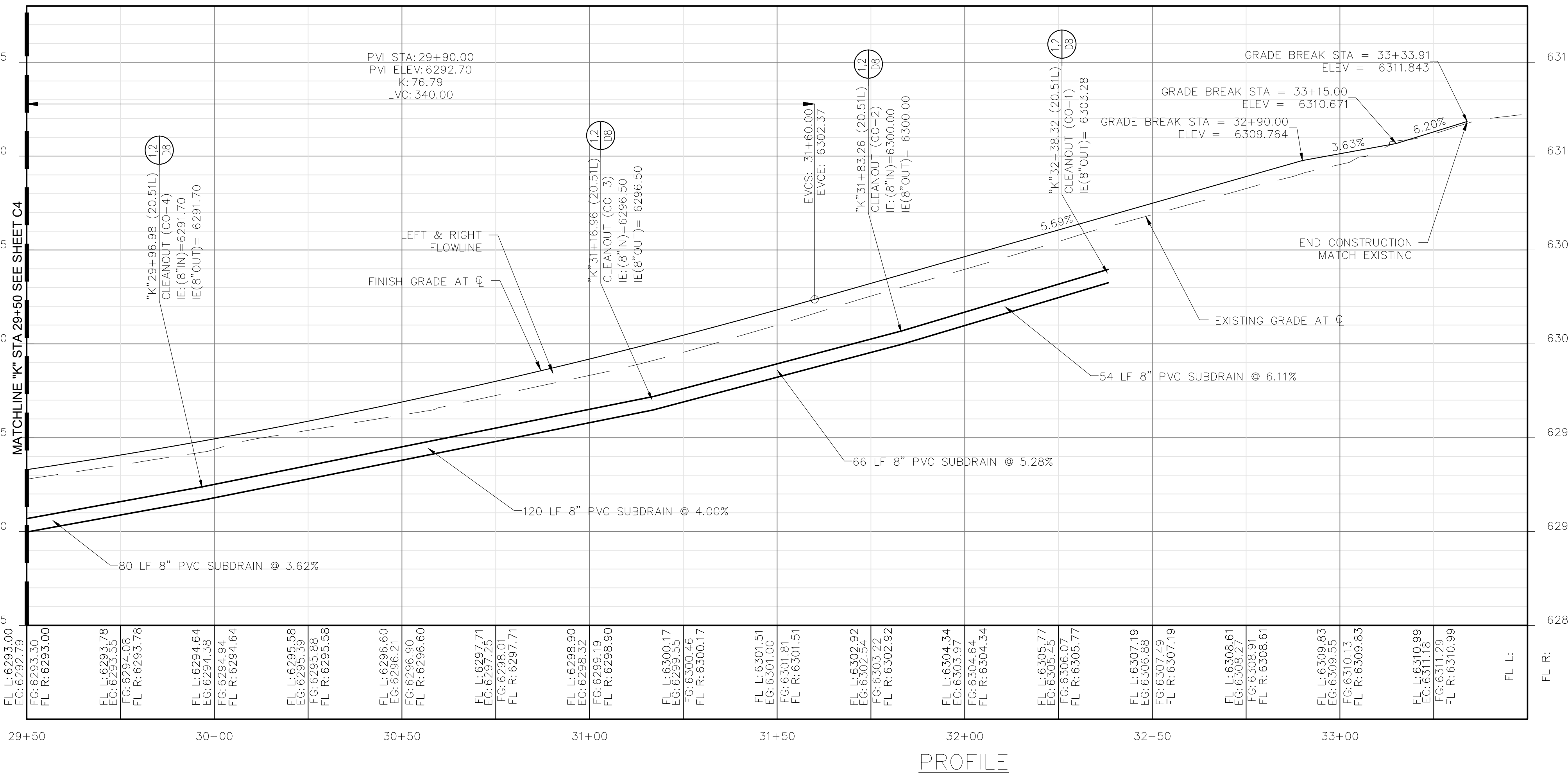
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DATE	11/20/24
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	C4



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K PROFILE



SCALE:
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VERTICAL: 1"=4'

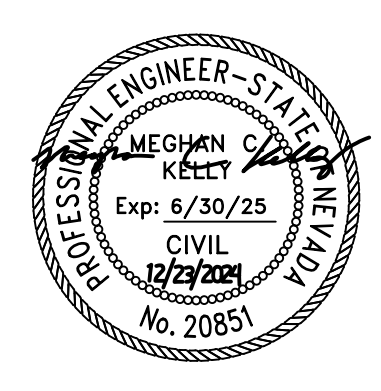
- KEY NOTES:**
1. STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
 2. SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
 3. WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE. SEE DETAIL 5,6,7/D7.
 4. GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
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 6. SANITARY SEWER CLEANOUT; ADJUST CLEANOUT BOX AND COVER TO GRADE. SEE DETAIL 6/D8.

- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



REVISIONS	
NO.	DESCRIPTION

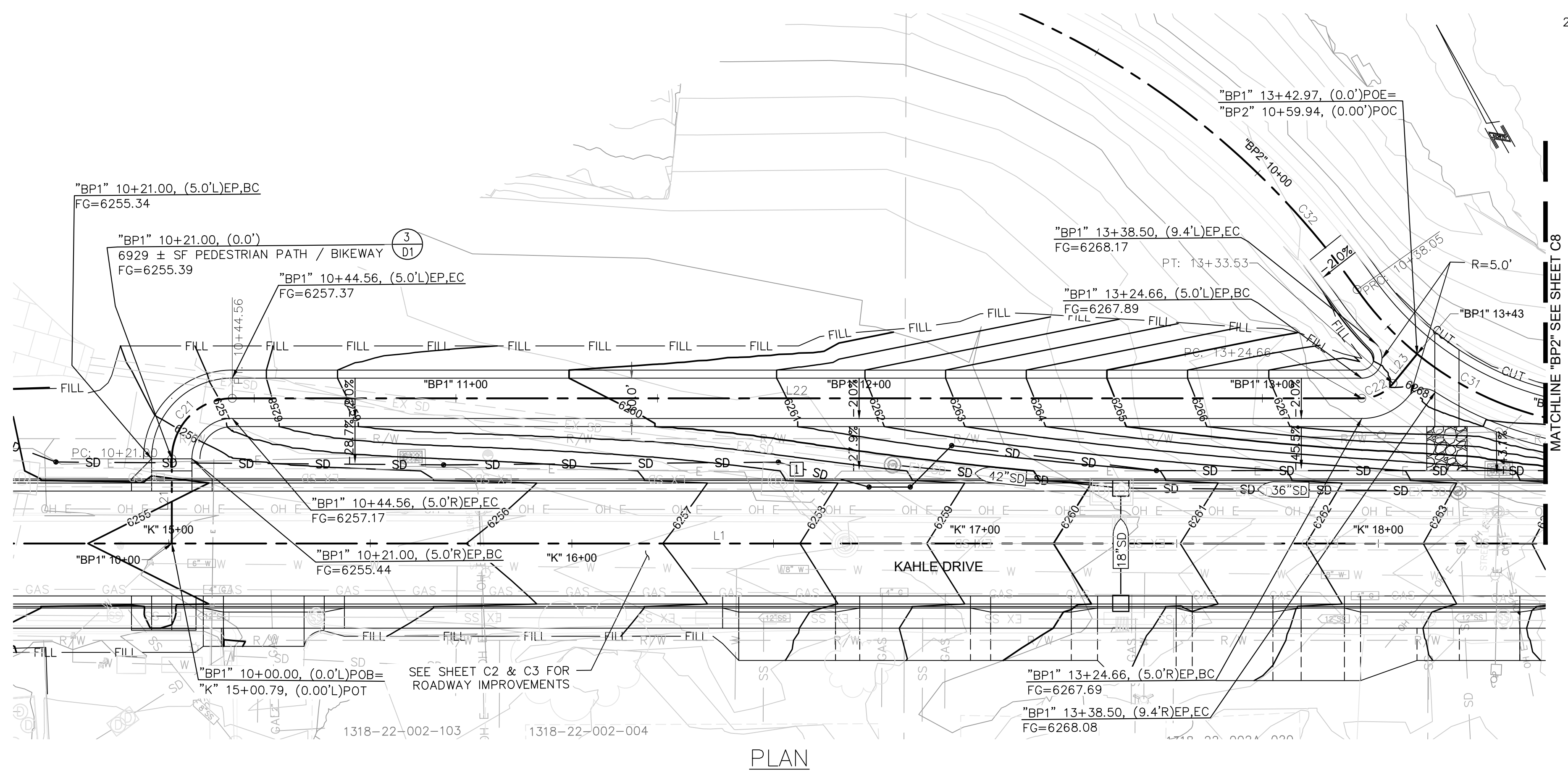
CONSTRUCTION PLAN AND PROFILE
"K" 29+50 TO "K" 33+50
KAHLE DRIVE COMPLETE STREETS PROJECT



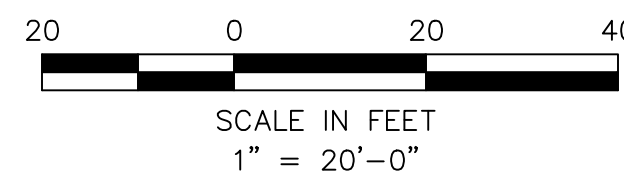
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SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	C5



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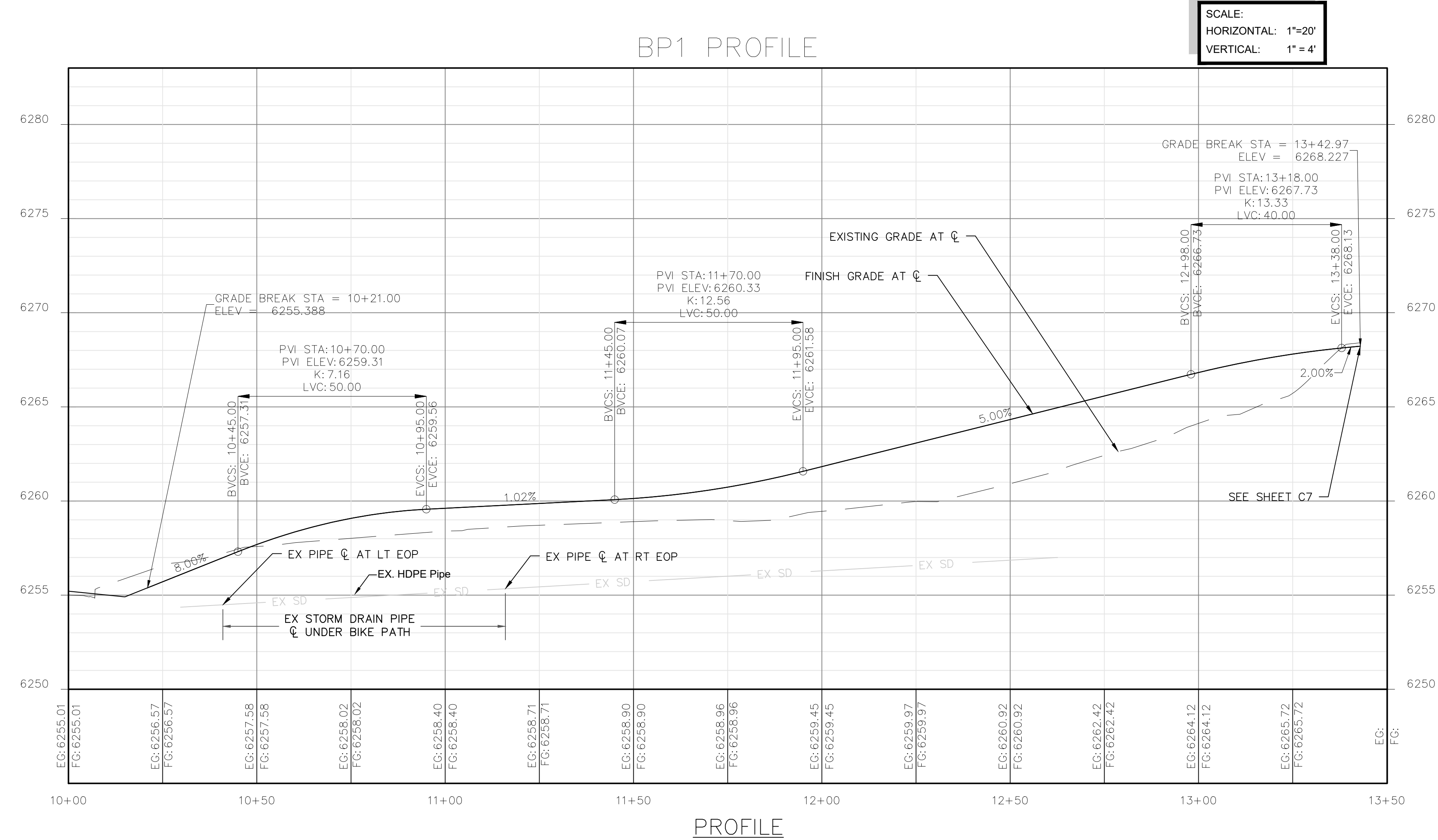
PLAN



- KEY NOTES:**
1. STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
 2. SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
 3. WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
 4. GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
 5. WATER METER; ADJUST METER BOX AND COVER TO GRADE.
 6. SANITARY SEWER CLEANOUT; ADJUST CLEANOUT BOX AND COVER TO GRADE. SEE DETAIL 6/D8.

- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.

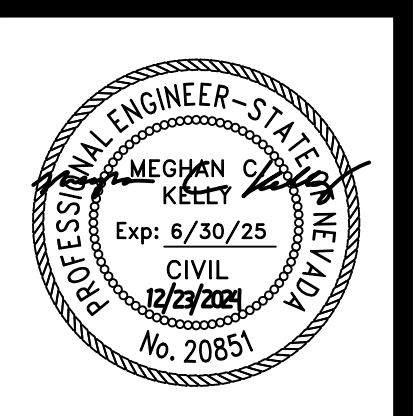
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PROFILE

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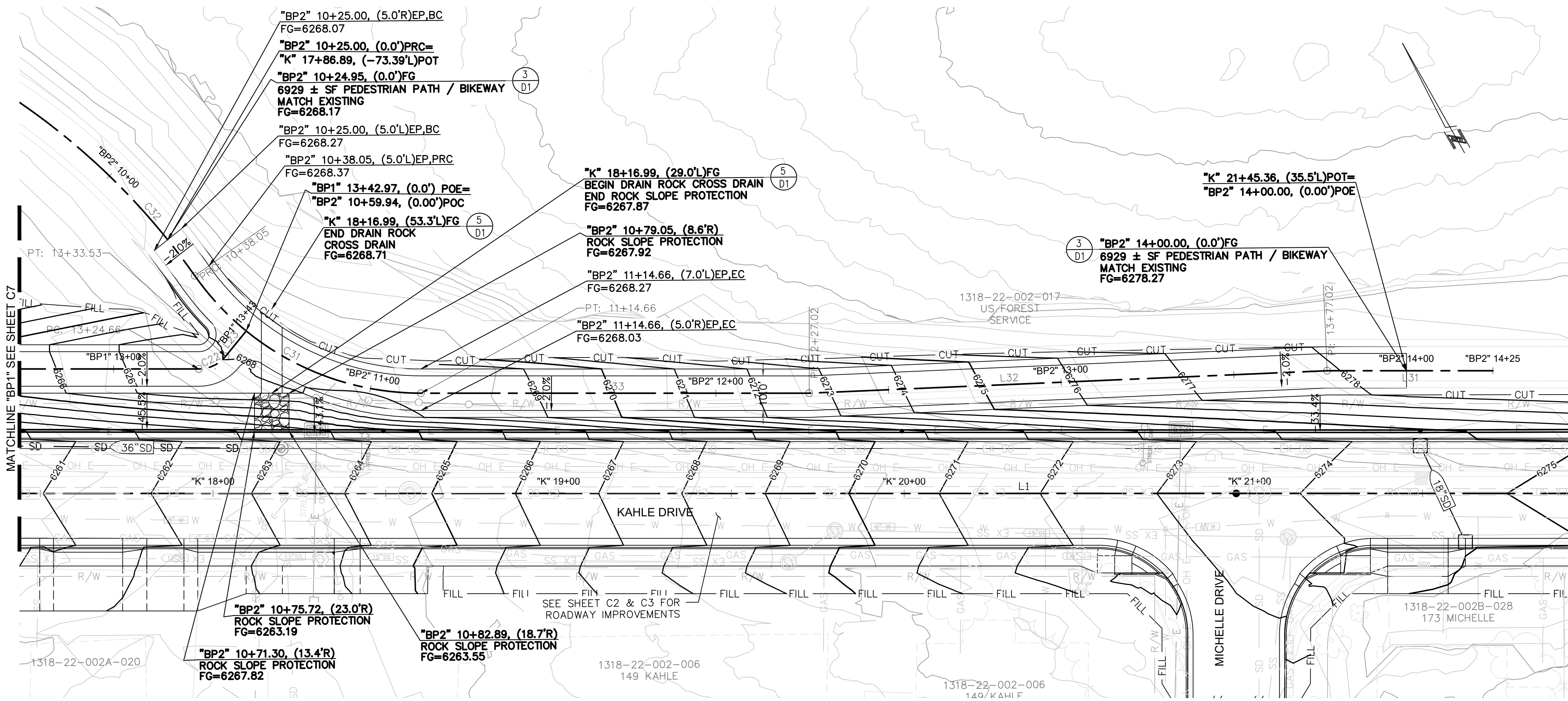
CONSTRUCTION PLAN AND PROFILE
"BP1" & "BP2"
KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	C7



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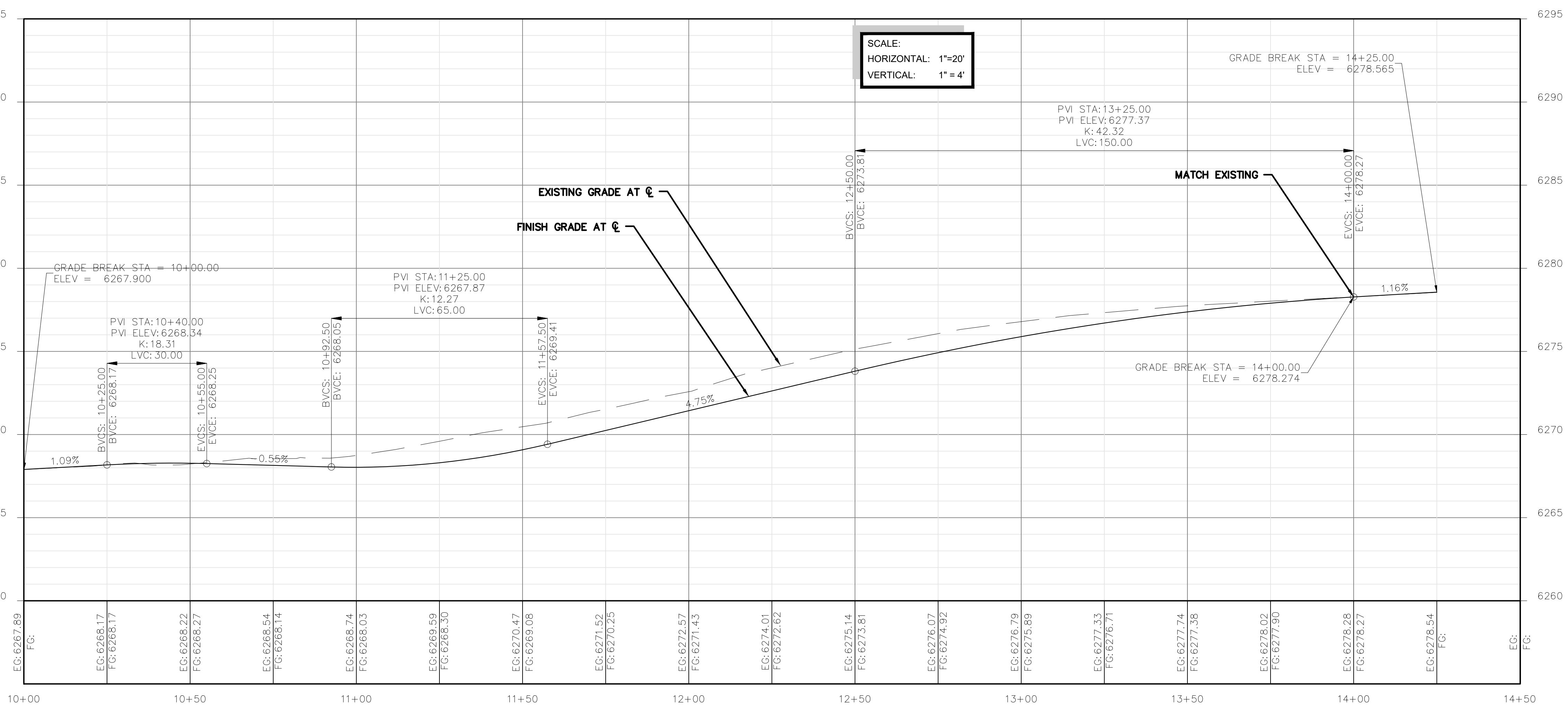


- KEY NOTES:**
1. STORM DRAIN MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3/D10.
 2. SANITARY SEWER MANHOLE; ADJUST FRAME, COLLAR, AND COVER TO GRADE. SEE DETAIL 3,4,5/D8.
 3. WATER VALVE; ADJUST VALVE BOX AND COVER TO GRADE. SEE DETAIL 5,6,7/D7.
 4. GAS VALVE; ADJUST VALVE BOX AND COVER TO GRADE.
 5. WATER METER; ADJUST METER BOX AND COVER TO GRADE.
 6. SANITARY SEWER CLEANOUT; ADJUST CLEANOUT BOX AND COVER TO GRADE. SEE DETAIL 6/D8.

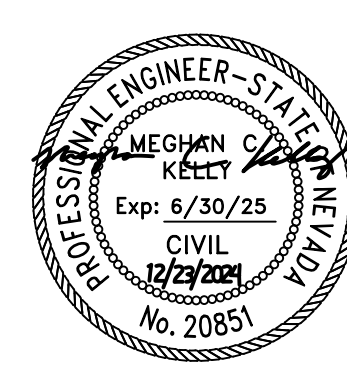
- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS D11-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



REVISIONS	
NO.	DESCRIPTION



CONSTRUCTION PLAN AND PROFILE
"BP2"
KAHLE DRIVE COMPLETE STREETS PROJECT

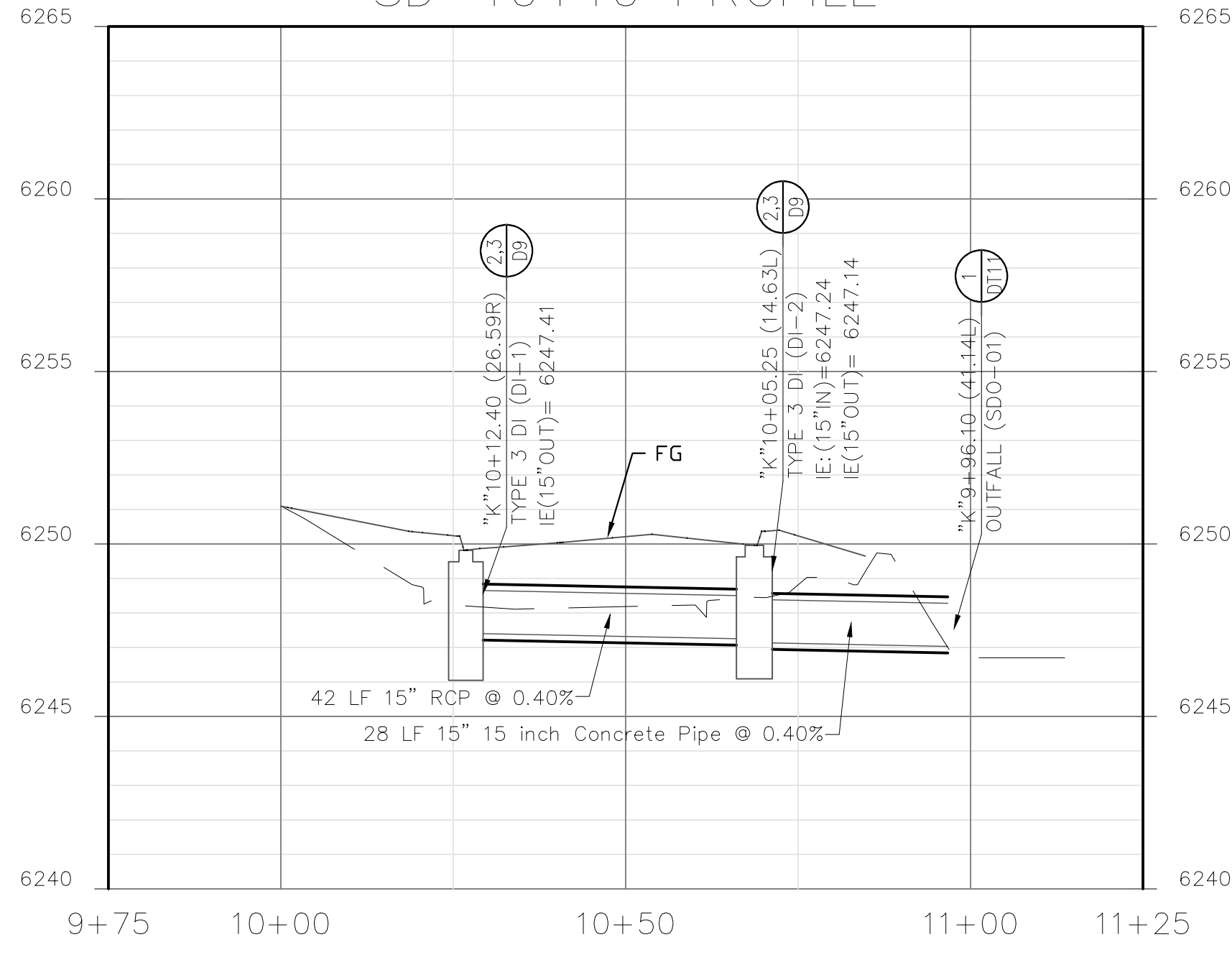


DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET

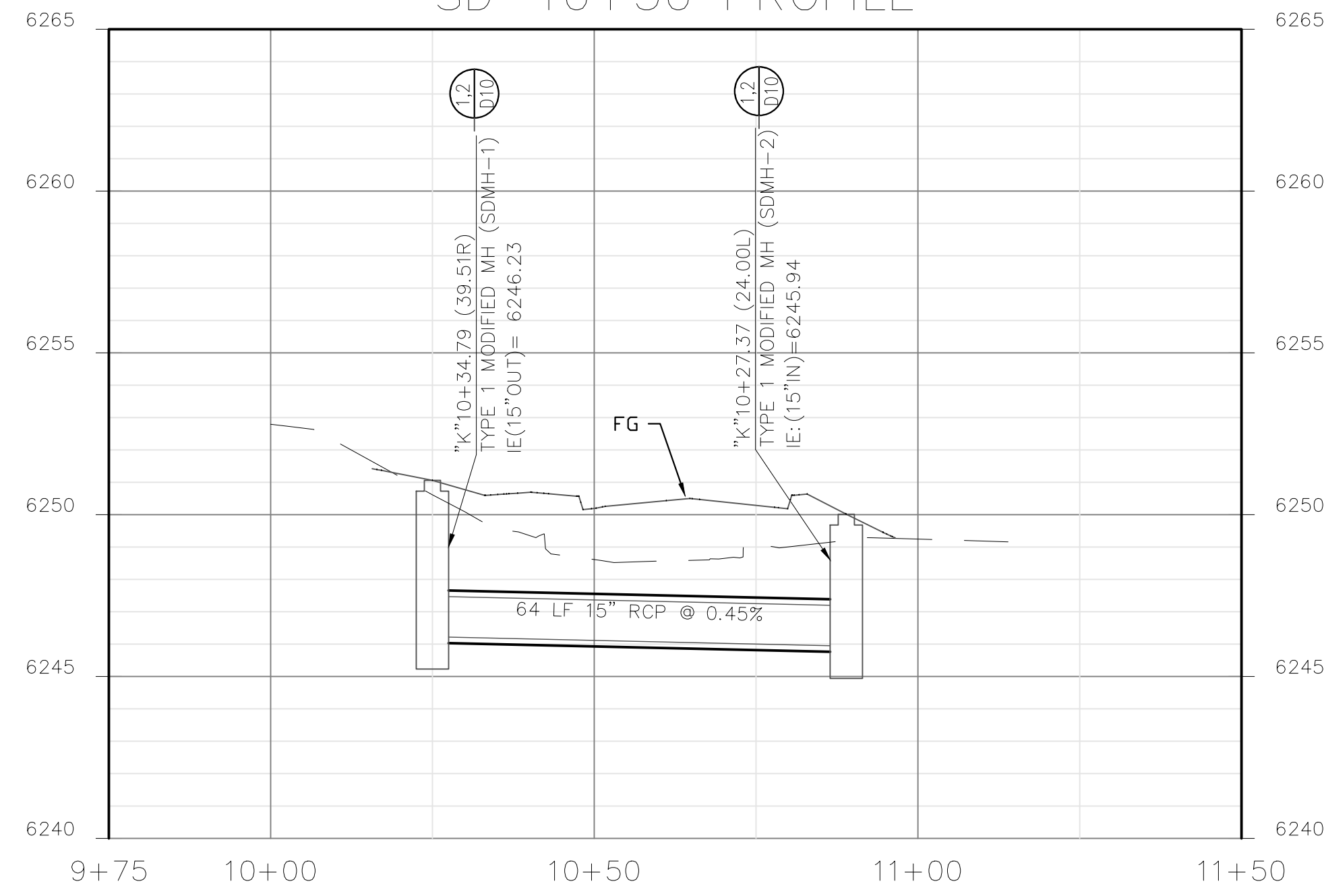


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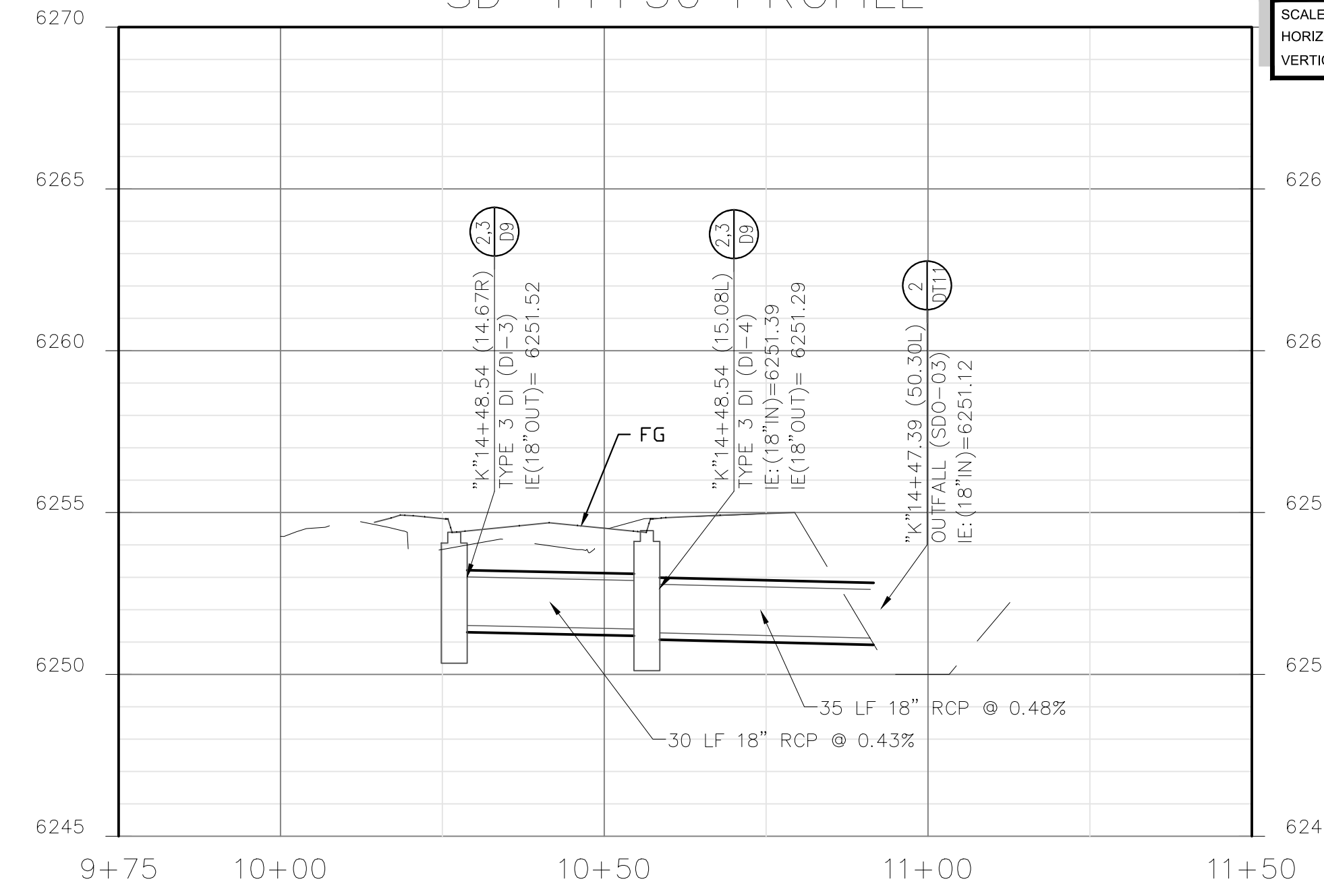
SD-10+10 PROFILE



SD-10+30 PROFILE

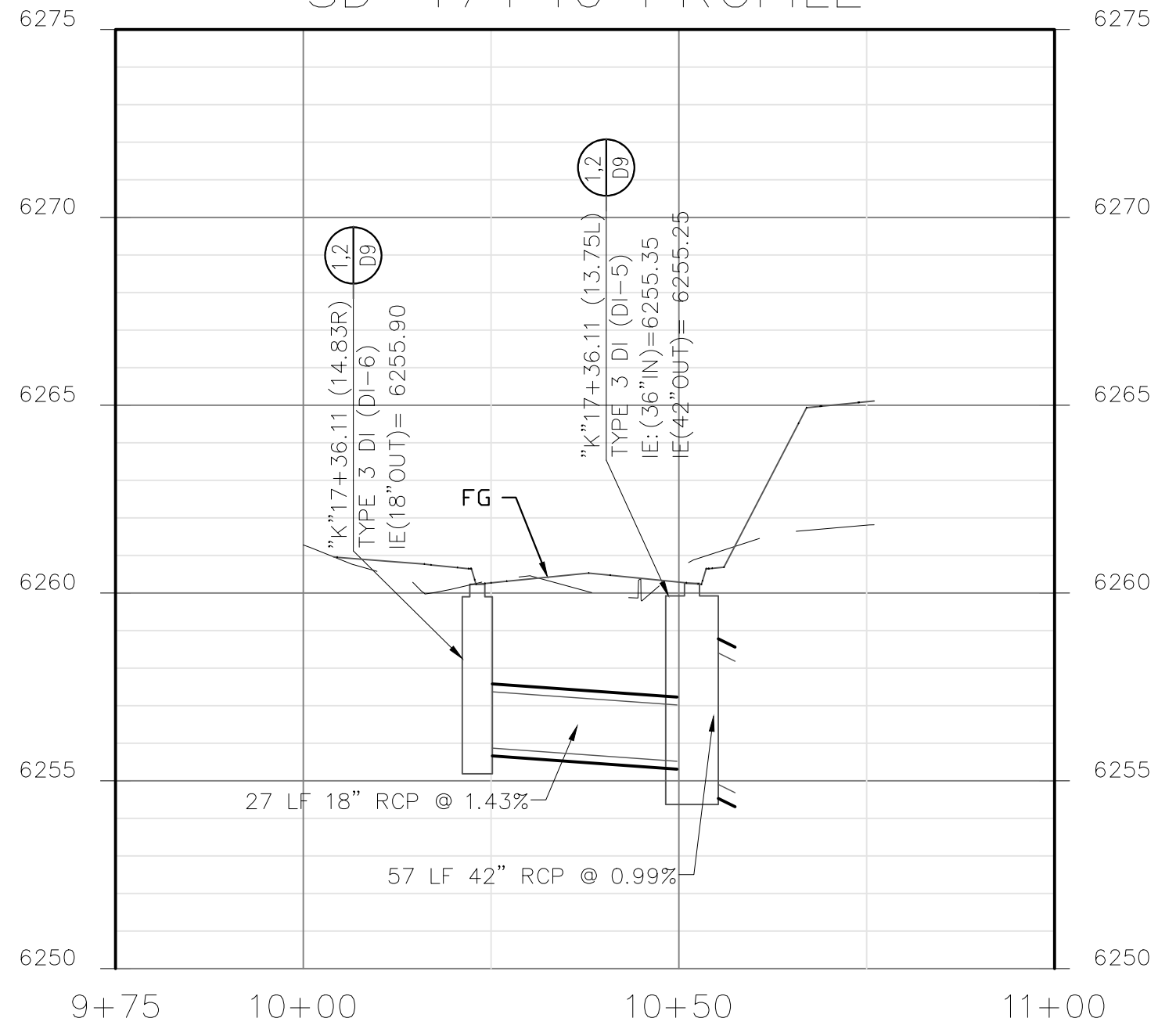


SD-14+50 PROFILE

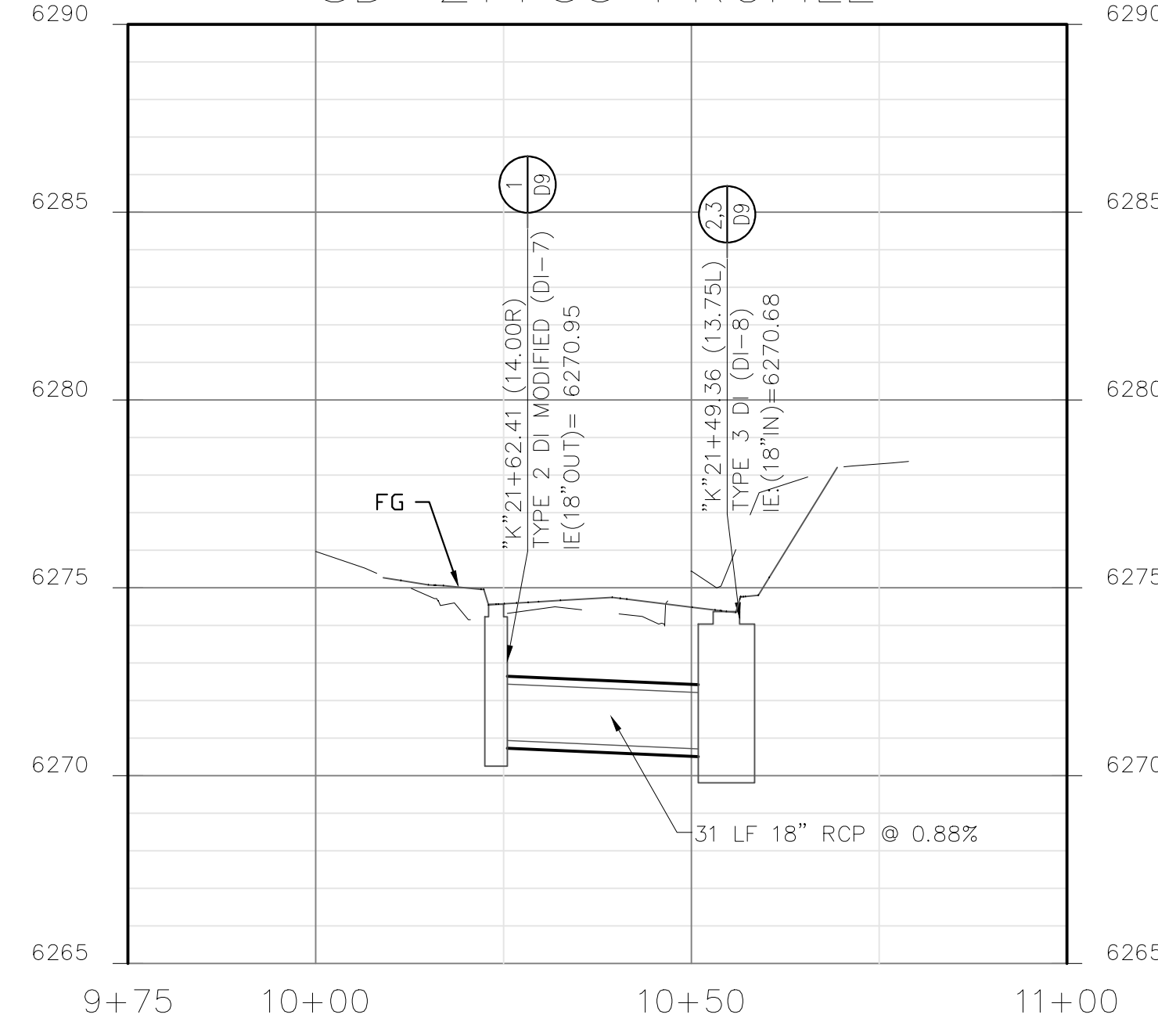


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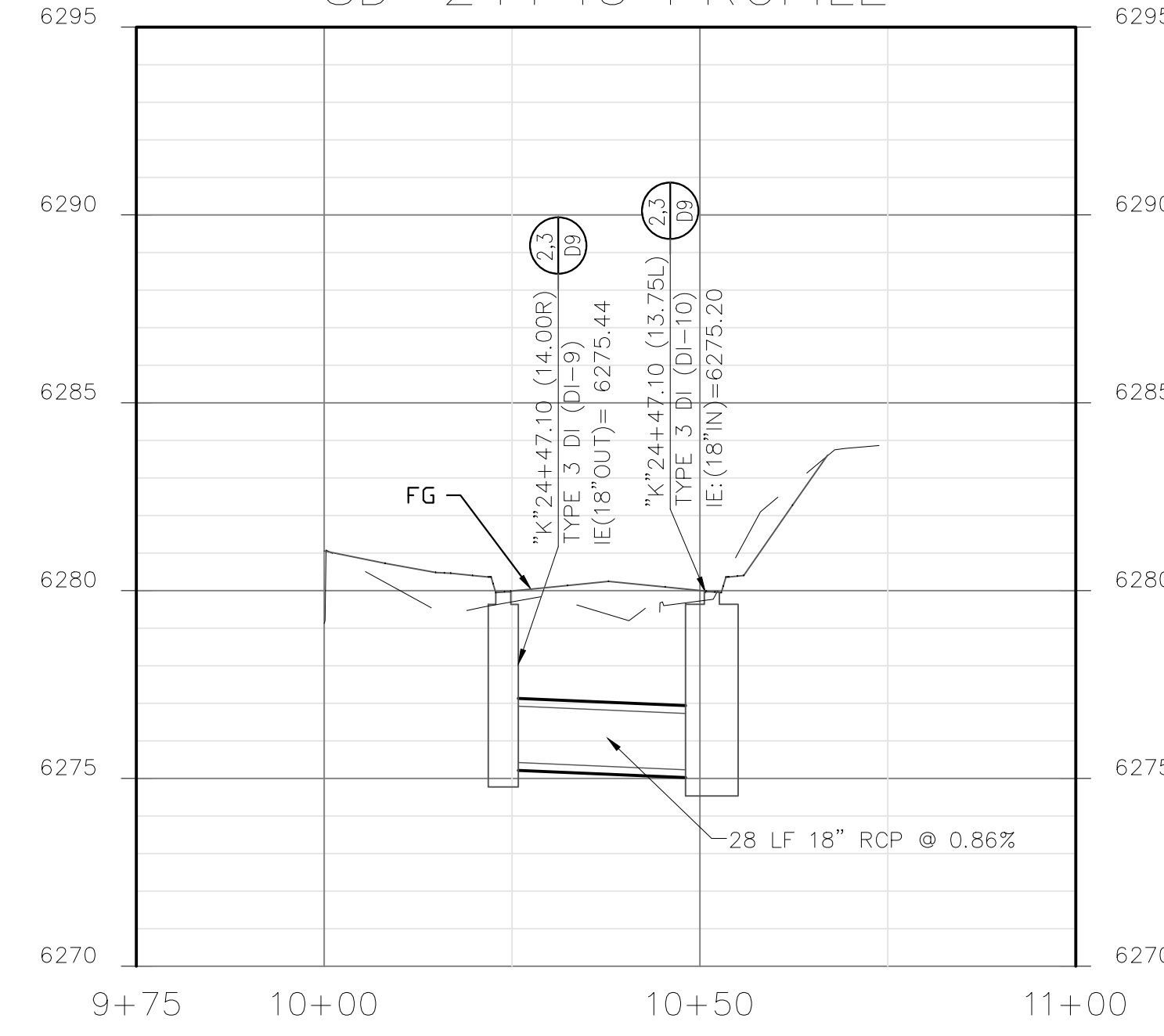
SD-17+40 PROFILE



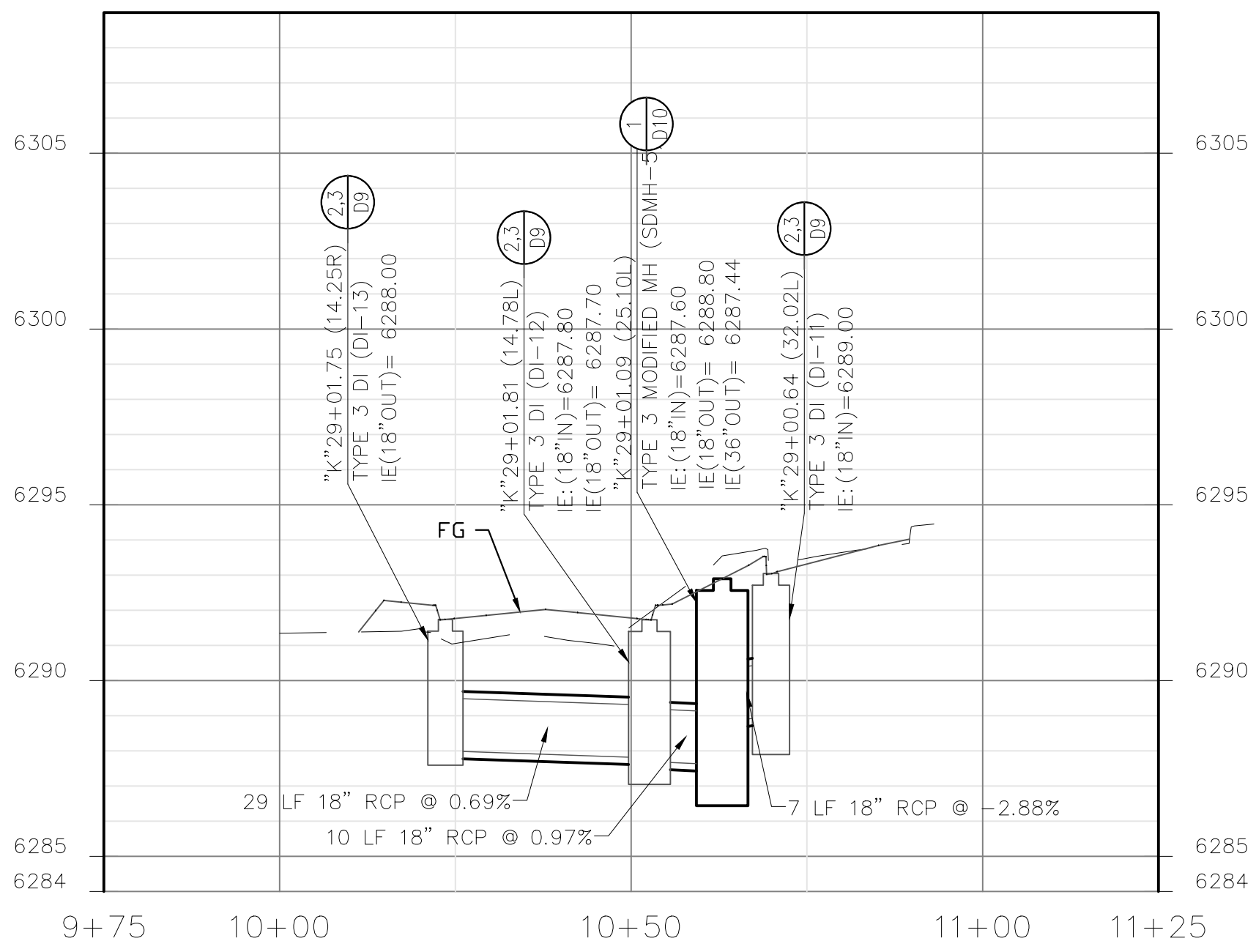
SD-21+55 PROFILE



SD-24+45 PROFILE



SD-29+00 PROFILE

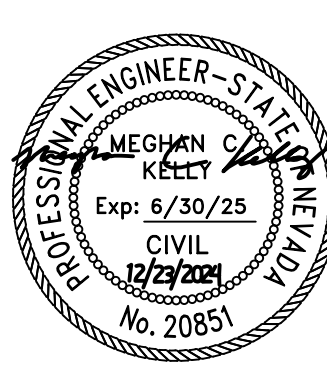


NOTES:
1. SEE SHEETS C1 THROUGH C5 FOR STORM DRAIN MAINLINE IMPROVEMENTS AND CONNECTED PIPES.



NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION

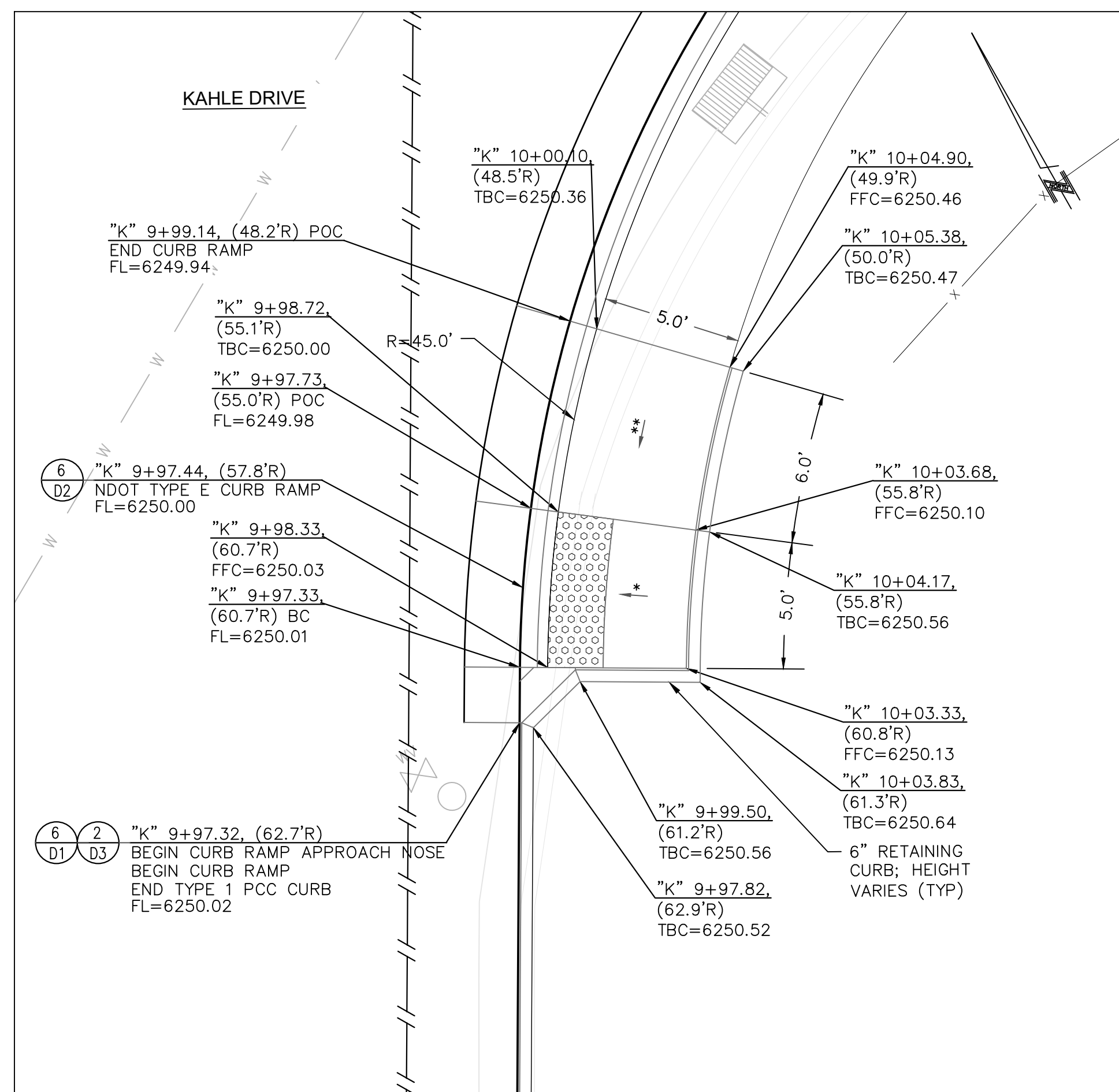
CONSTRUCTION PROFILE - STORM DRAIN
KAHLE DRIVE COMPLETE STREETS PROJECT



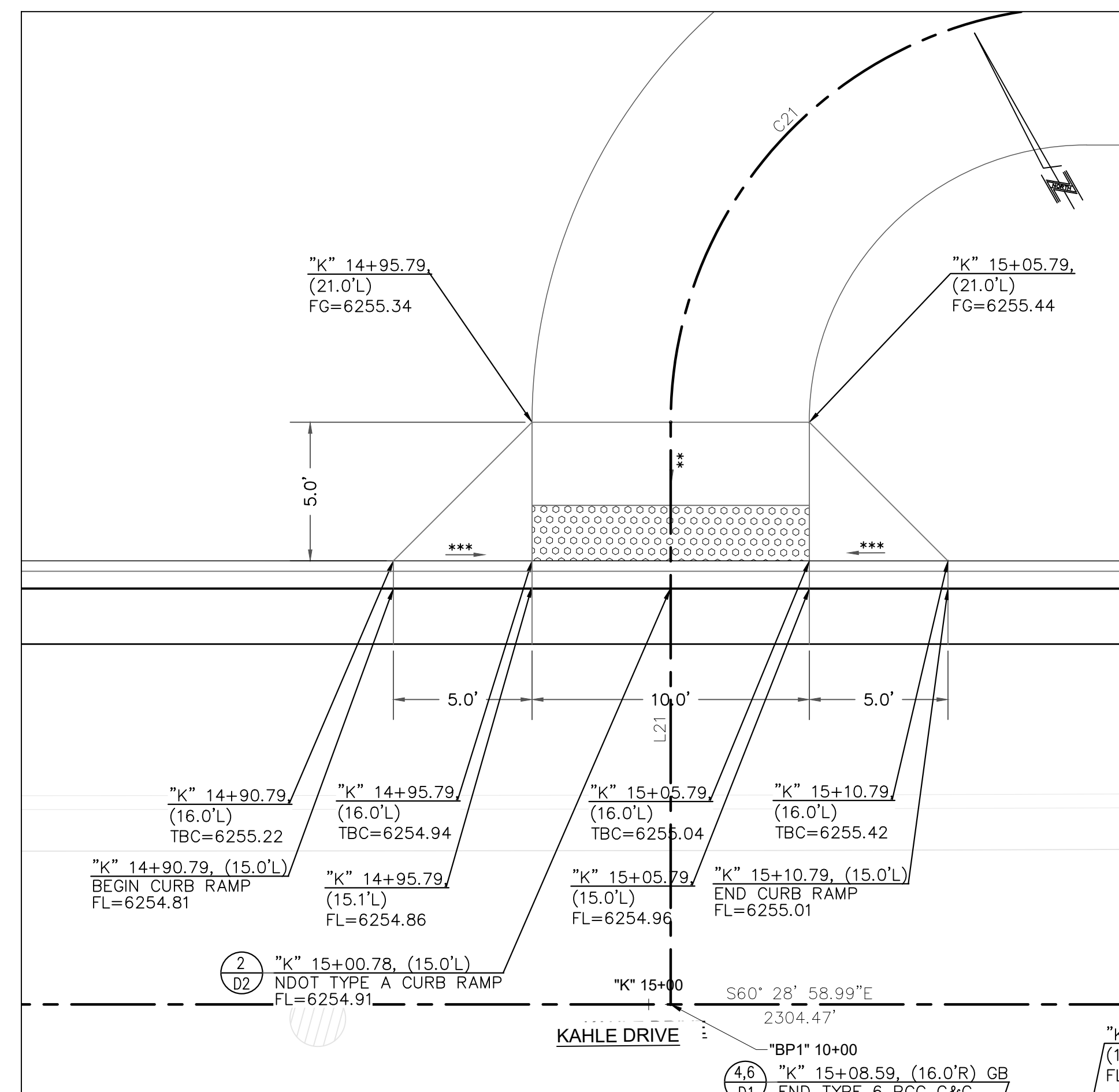
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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	C9



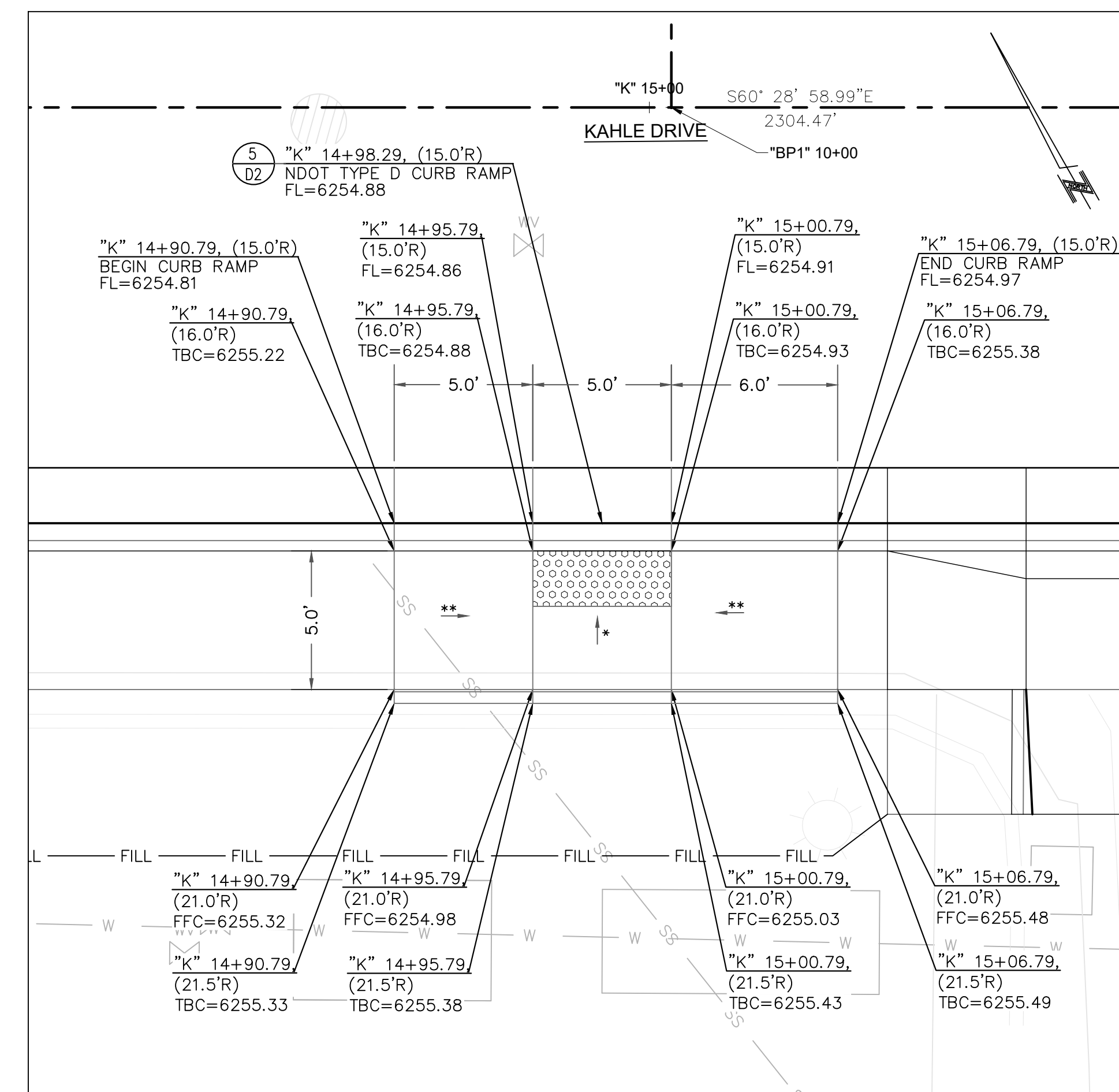
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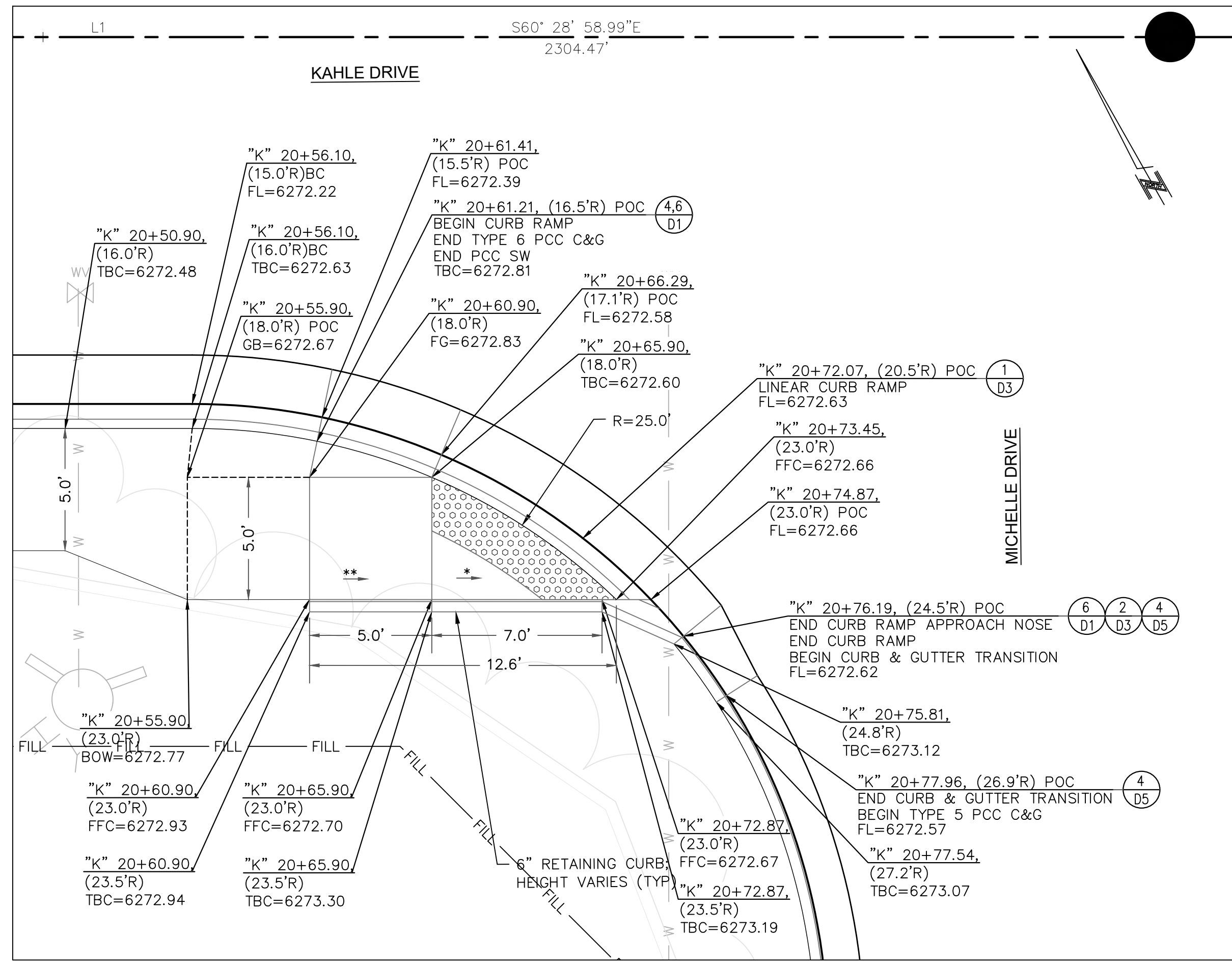
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DT1 1"=4'



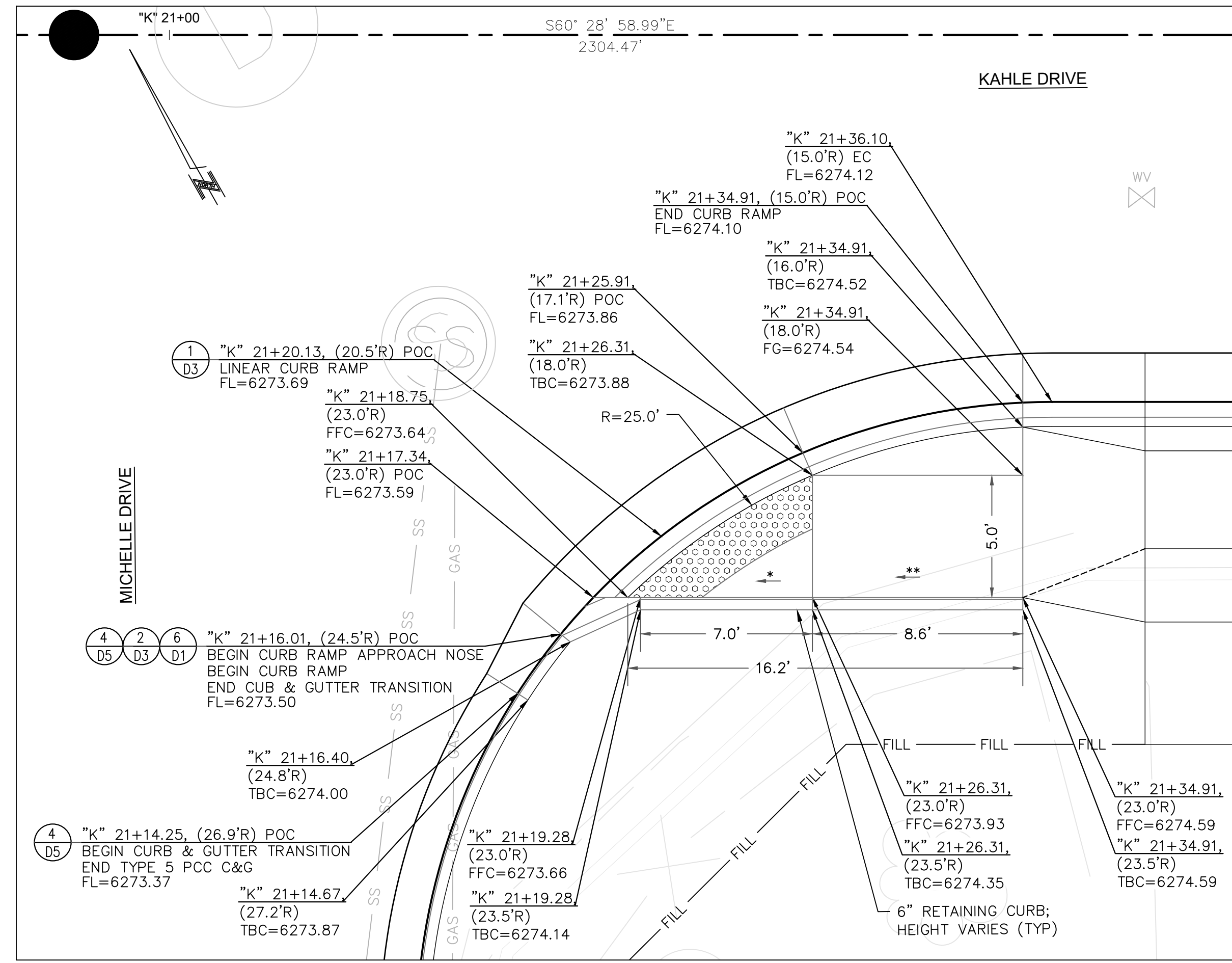
2 CURB RAMP DETAIL – "K" 15+00 LT
DT1 1"=4'



3 CURB RAMP DETAIL – "K" 14+98 RT
DT1 1"=4'



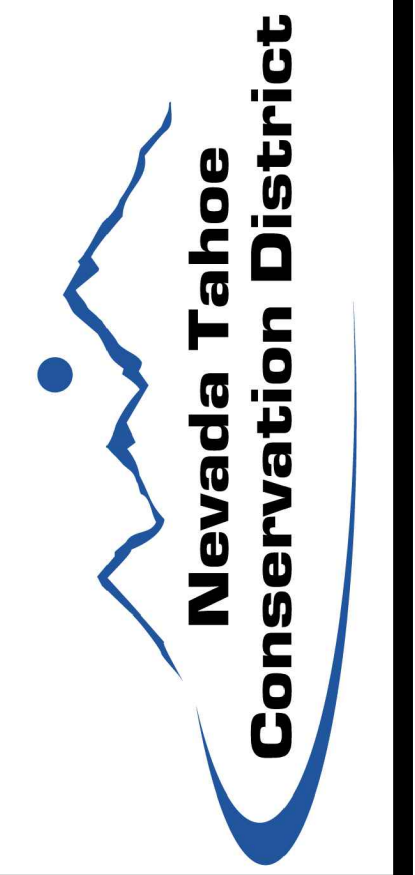
4 LINEAR CURB RAMP DETAIL – "K" 20+72 RT
DT1 1"=4'



5 LINEAR CURB RAMP DETAIL – "K" 21+20 RT
DT1 1"=4'

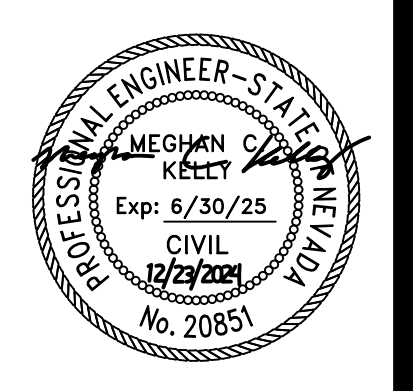
CONSTRUCTION NOTES:

- SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
- SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
- SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
- SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



NO.	DATE	BY	DESCRIPTION
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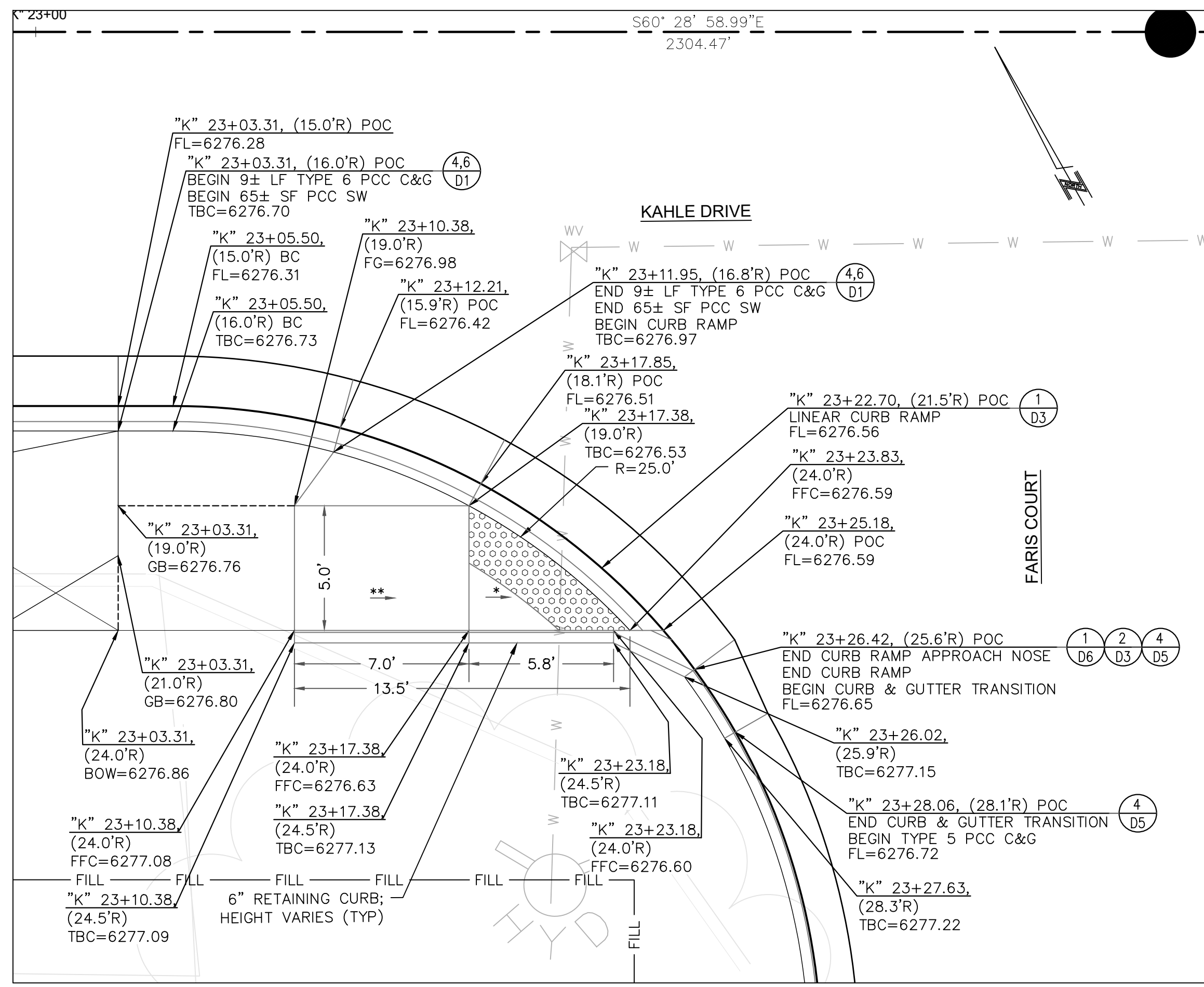
DETAILS - CURB RAMP
KAHLE DRIVE COMPLETE STREETS PROJECT



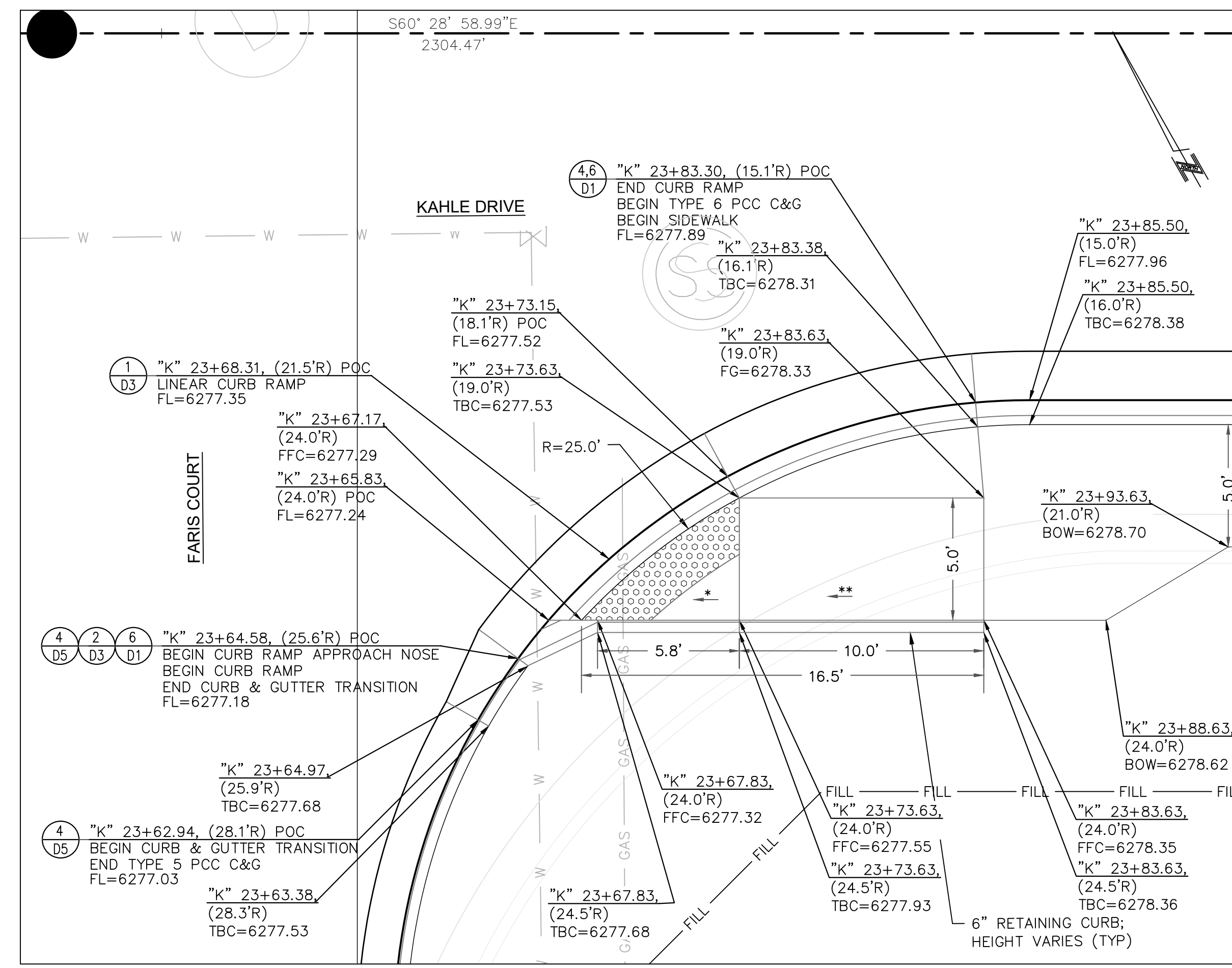
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PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



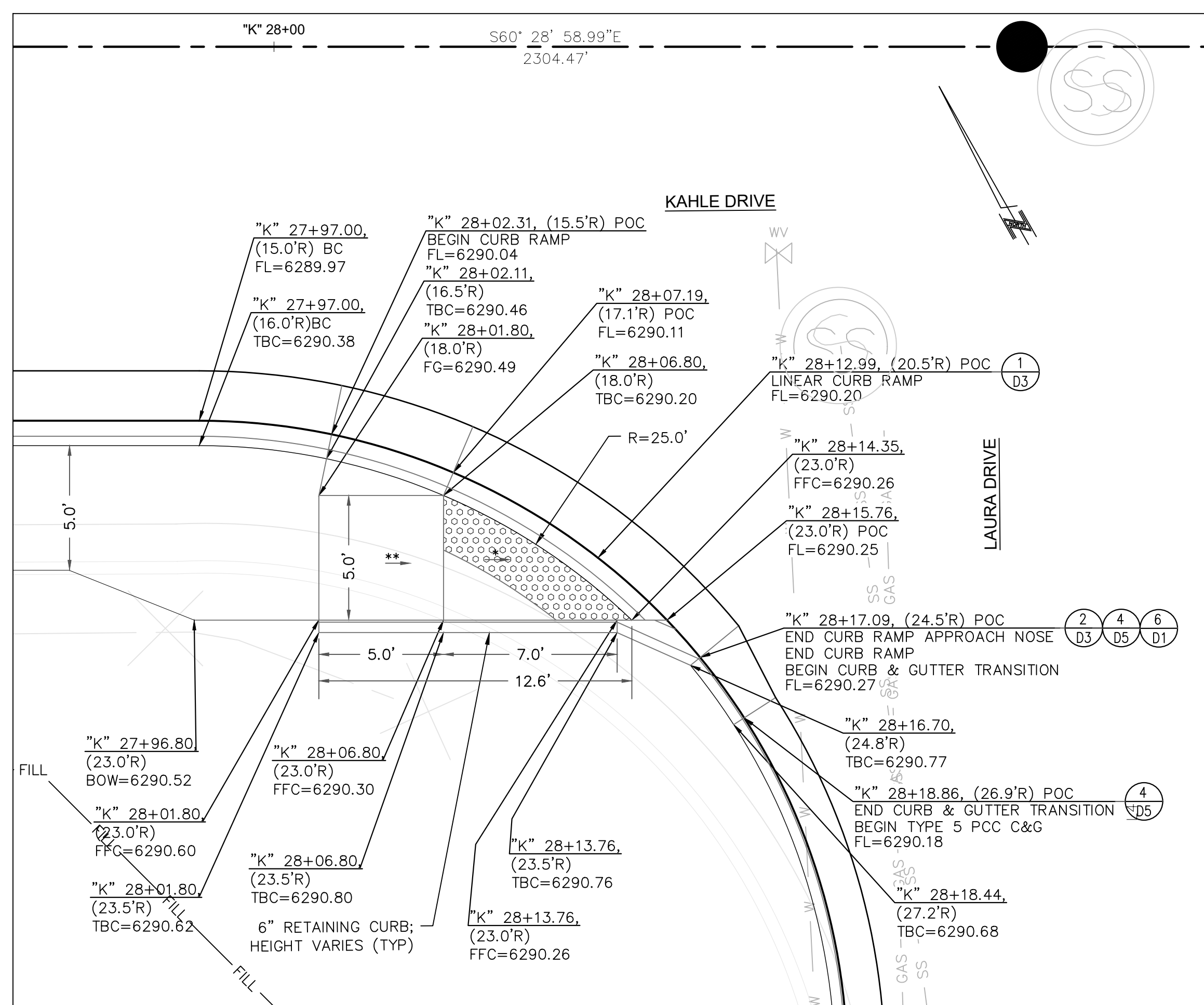
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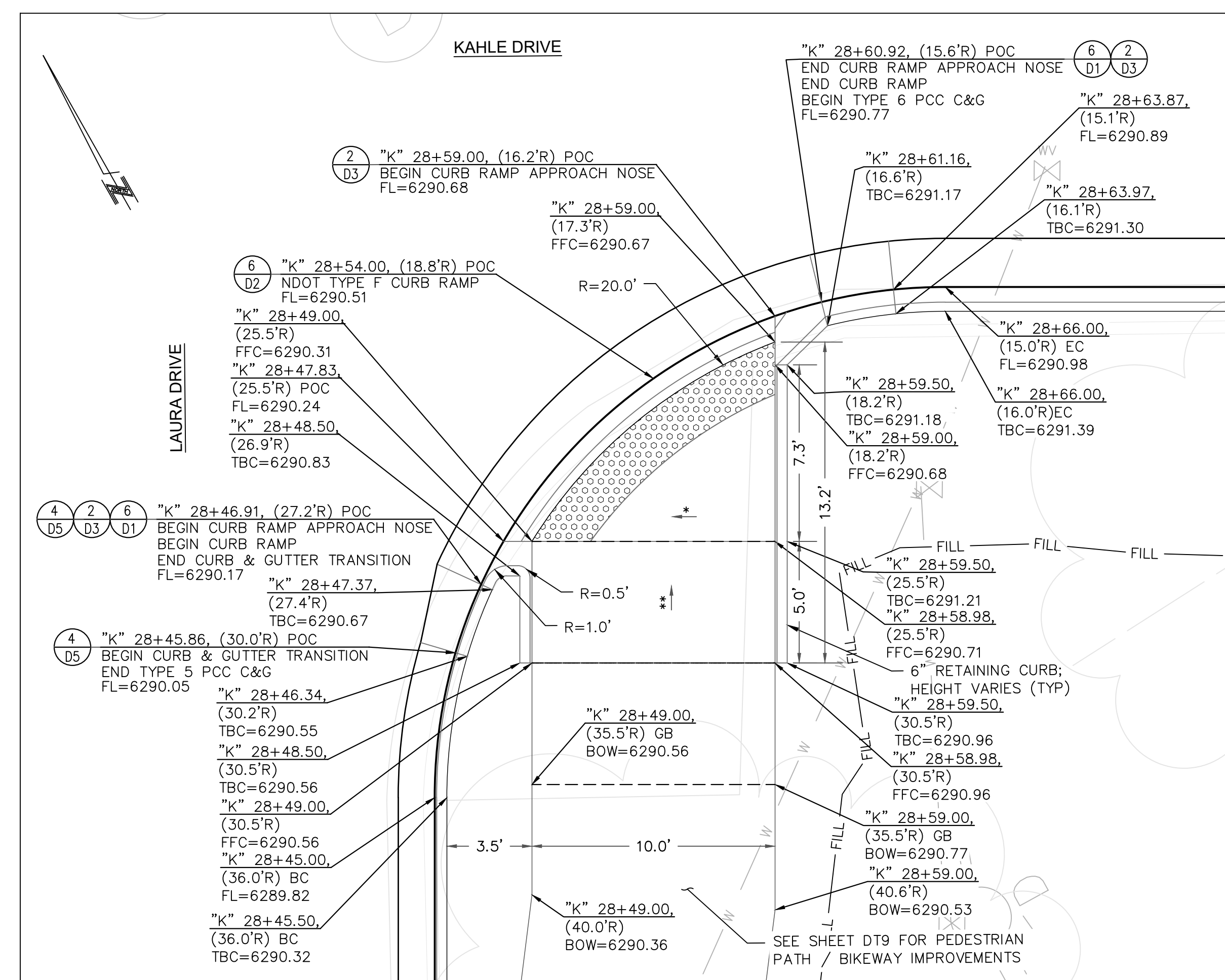
1 LINEAR CURB RAMP DETAIL - "K" 23+22 RT
DT2 1"=4'



2 LINEAR CURB RAMP DETAIL - "K" 23+68 RT
DT2 1"=4'



3 LINEAR CURB RAMP DETAIL - "K" 28+12 RT
DT2 1"=4'

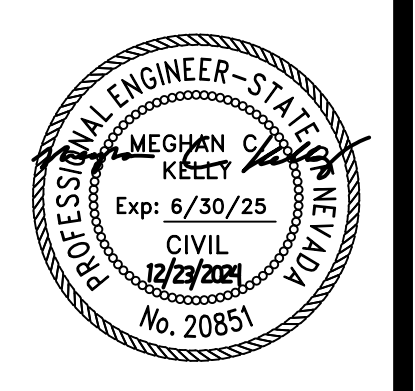


4 CURB RAMP DETAIL - "K" 28+54 RT
DT2 1"=4'

- CONSTRUCTION NOTES:**
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.

REVISIONS	
NO.	DATE
1	10/19/2021
2	10/19/2021
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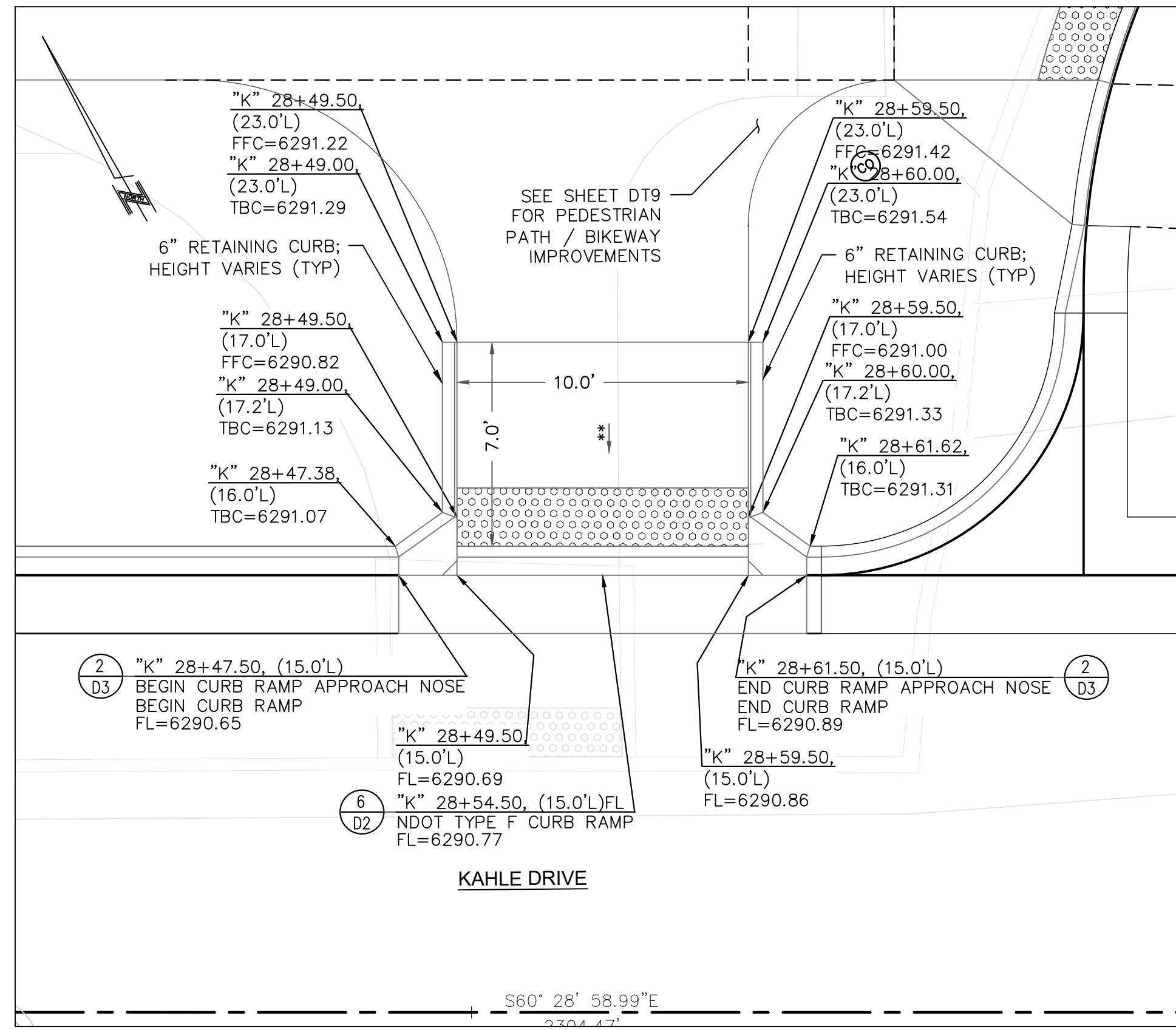
**DETAILS - CURB RAMP
KAHLE DRIVE COMPLETE STREETS PROJECT**



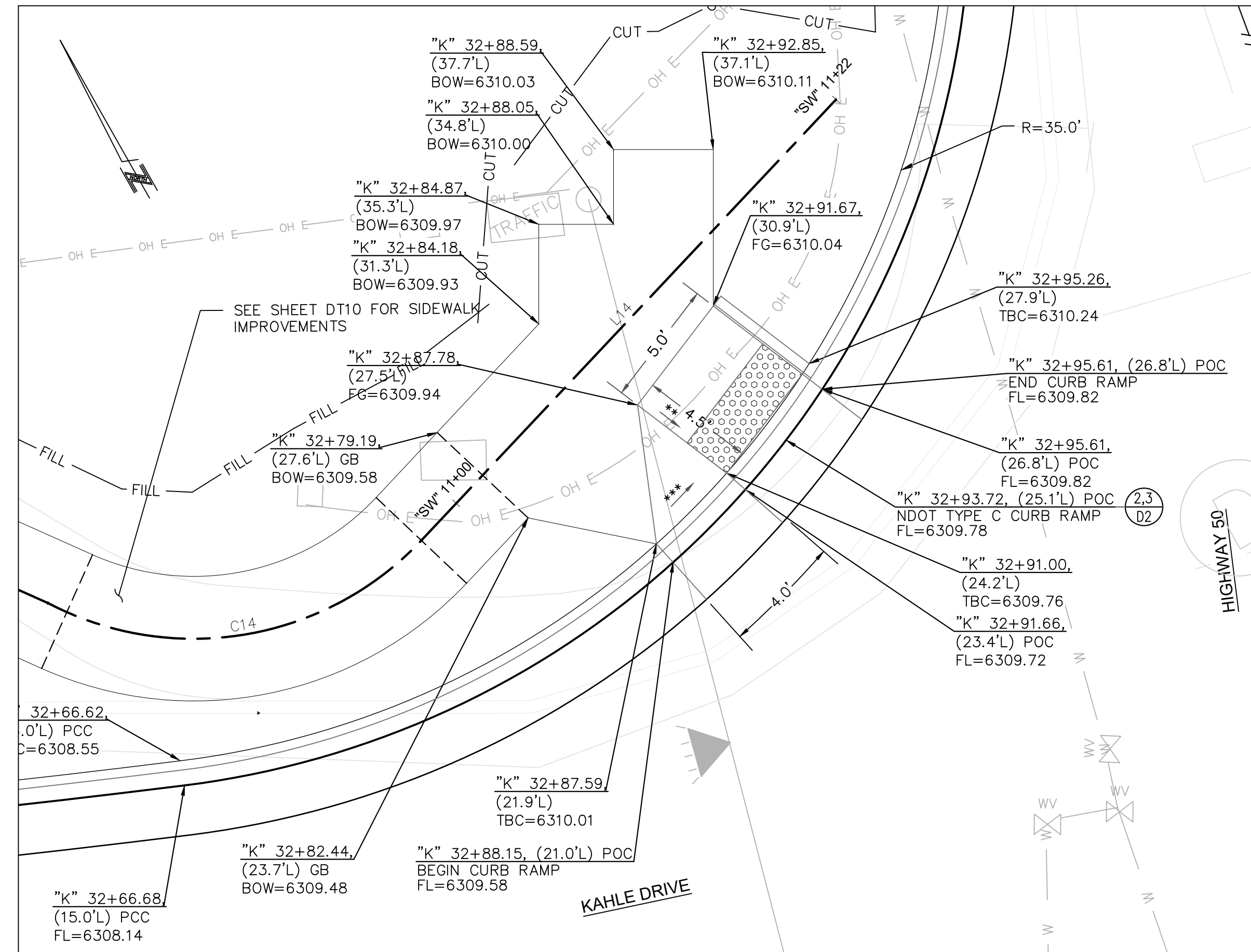
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PROJECT KAHLE DRIVE COMPLETE STREETS SHEET	



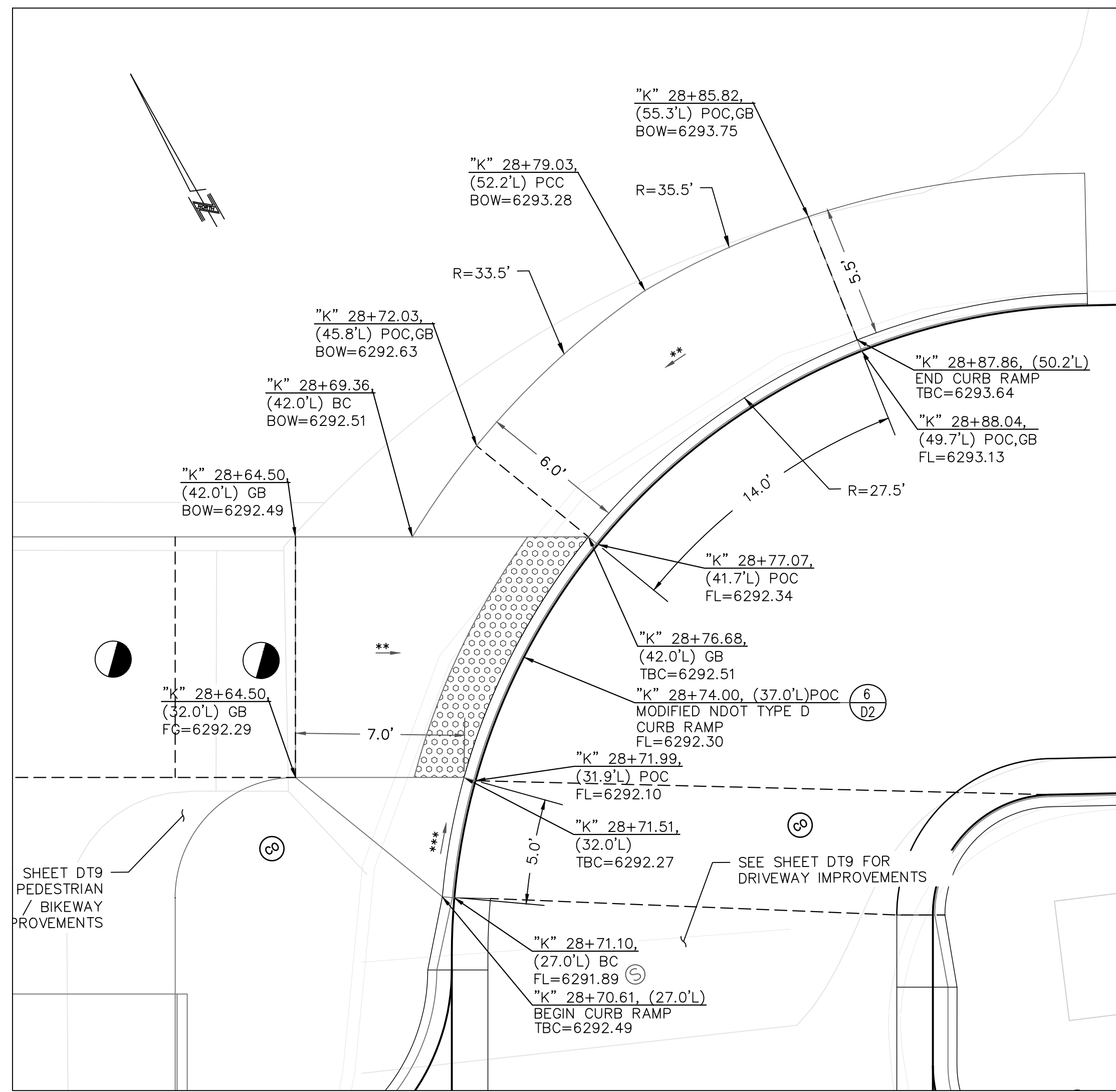
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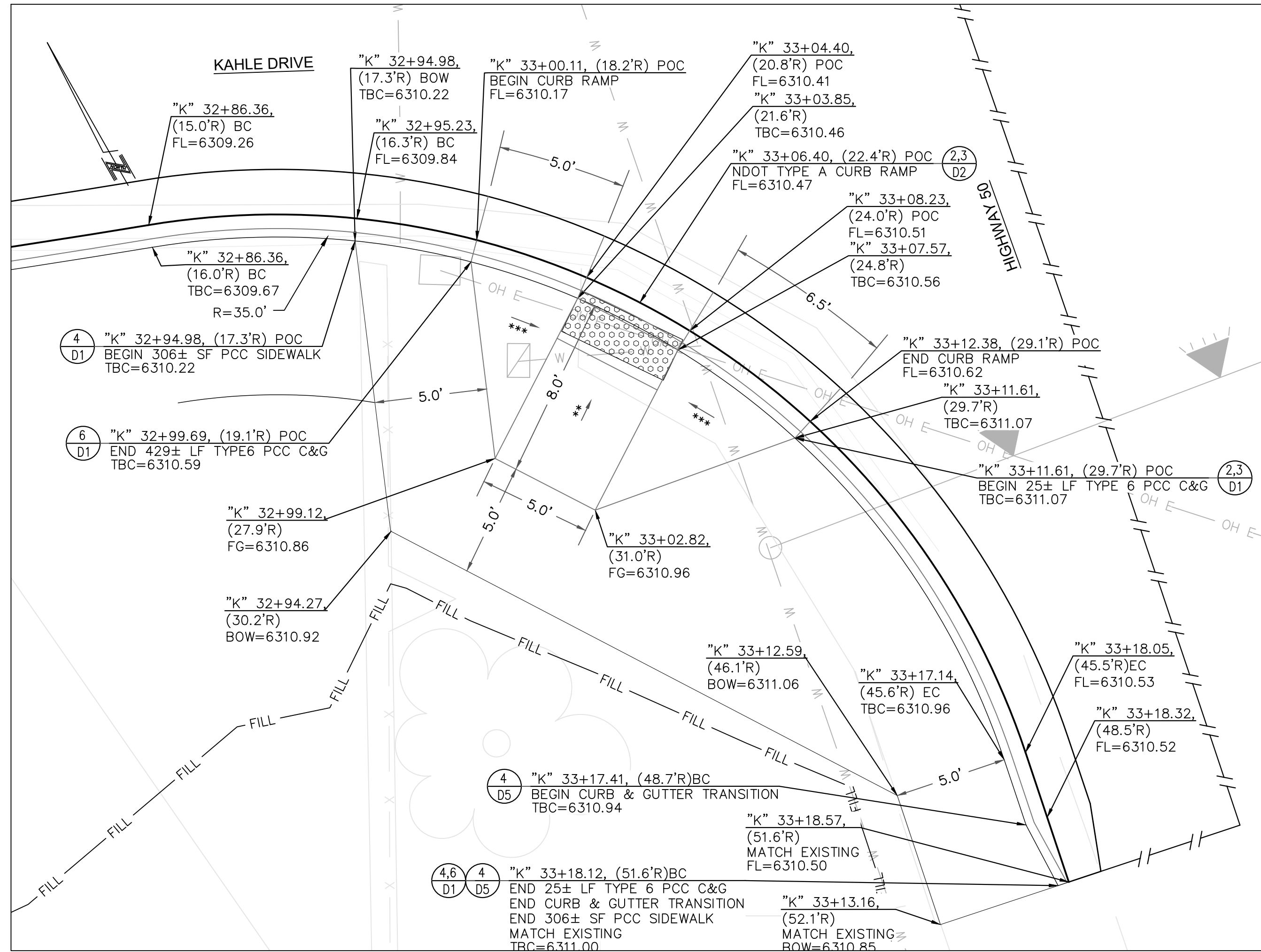
1 CURB RAMP DETAIL - "K" 28+54 LT
DT3 1"=4'



3 CURB RAMP DETAIL - "K" 32+90 LT
DT3 1"=4'



2 CURB RAMP DETAIL - "K" 28+74 LT
DT3 1"=4'



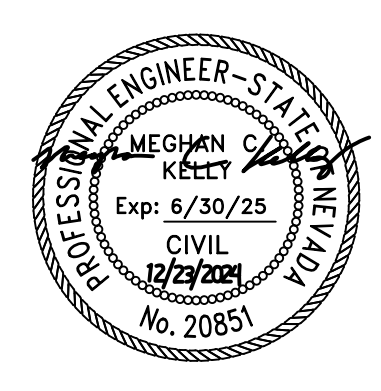
4 CURB RAMP DETAIL - "K" 33+06 RT
DT3 1"=4'

- CONSTRUCTION NOTES:**
- SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 - SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 - SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 - SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



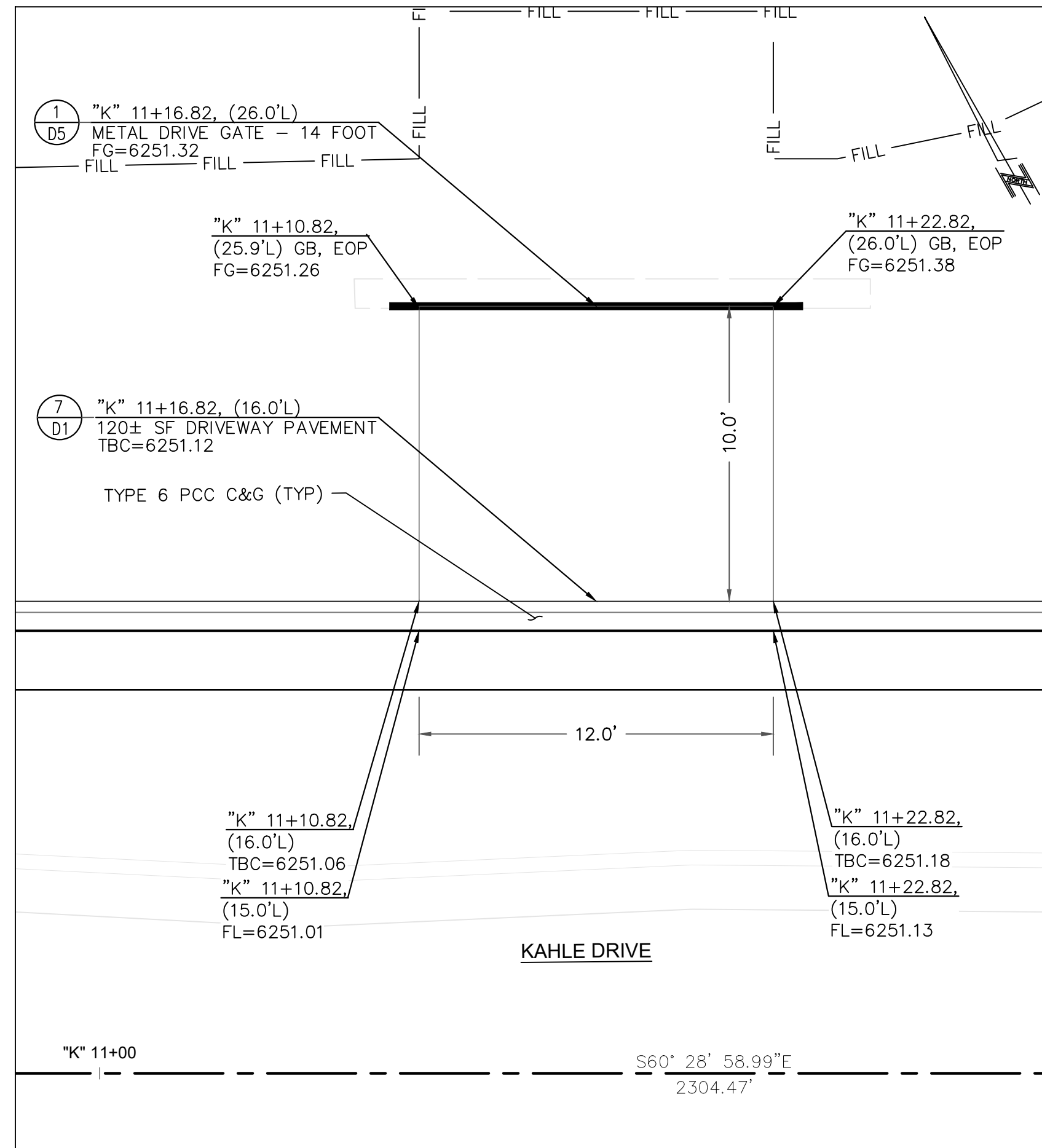
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DETAILS - CURB RAMP
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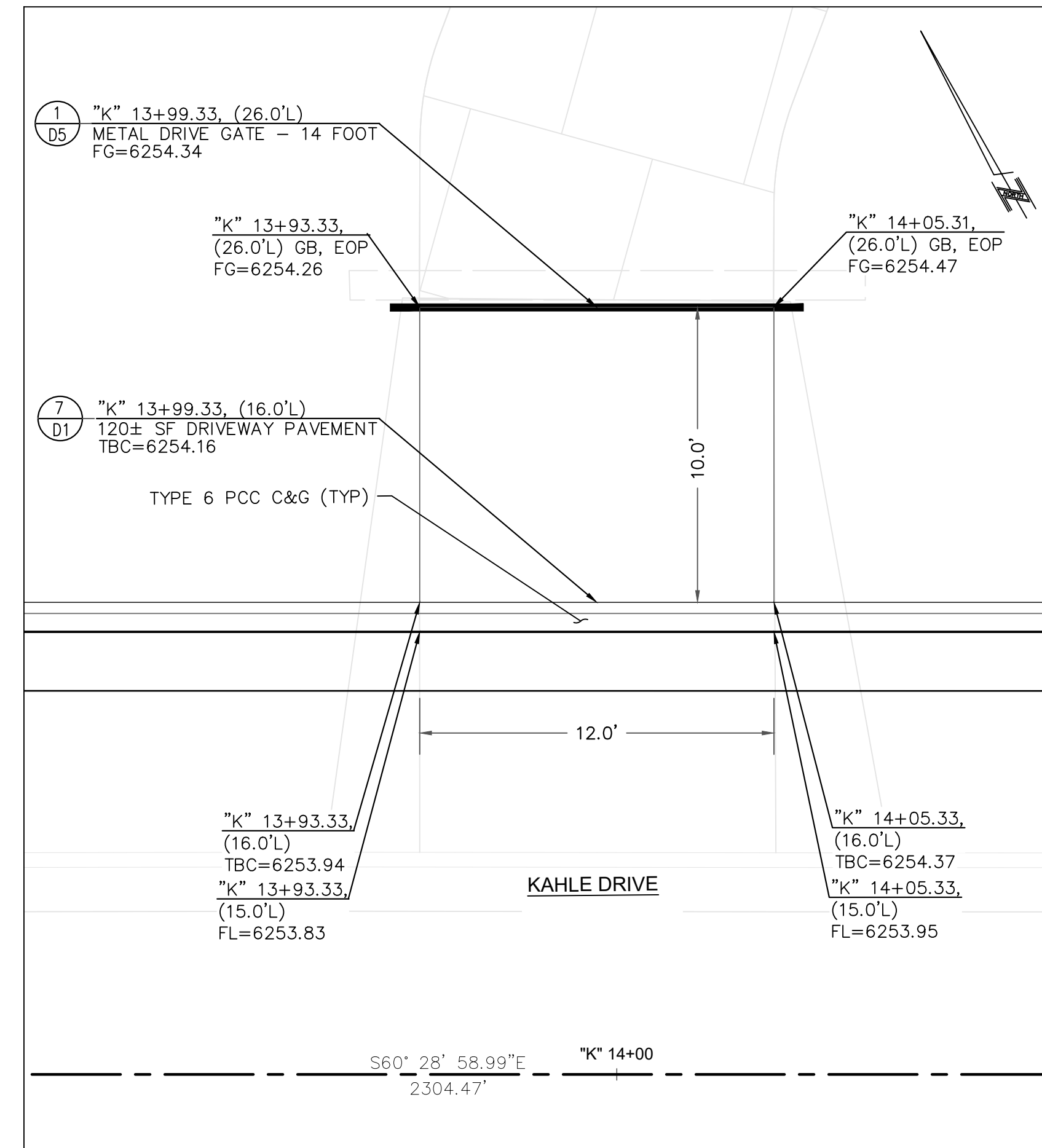


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SHEET	DT3

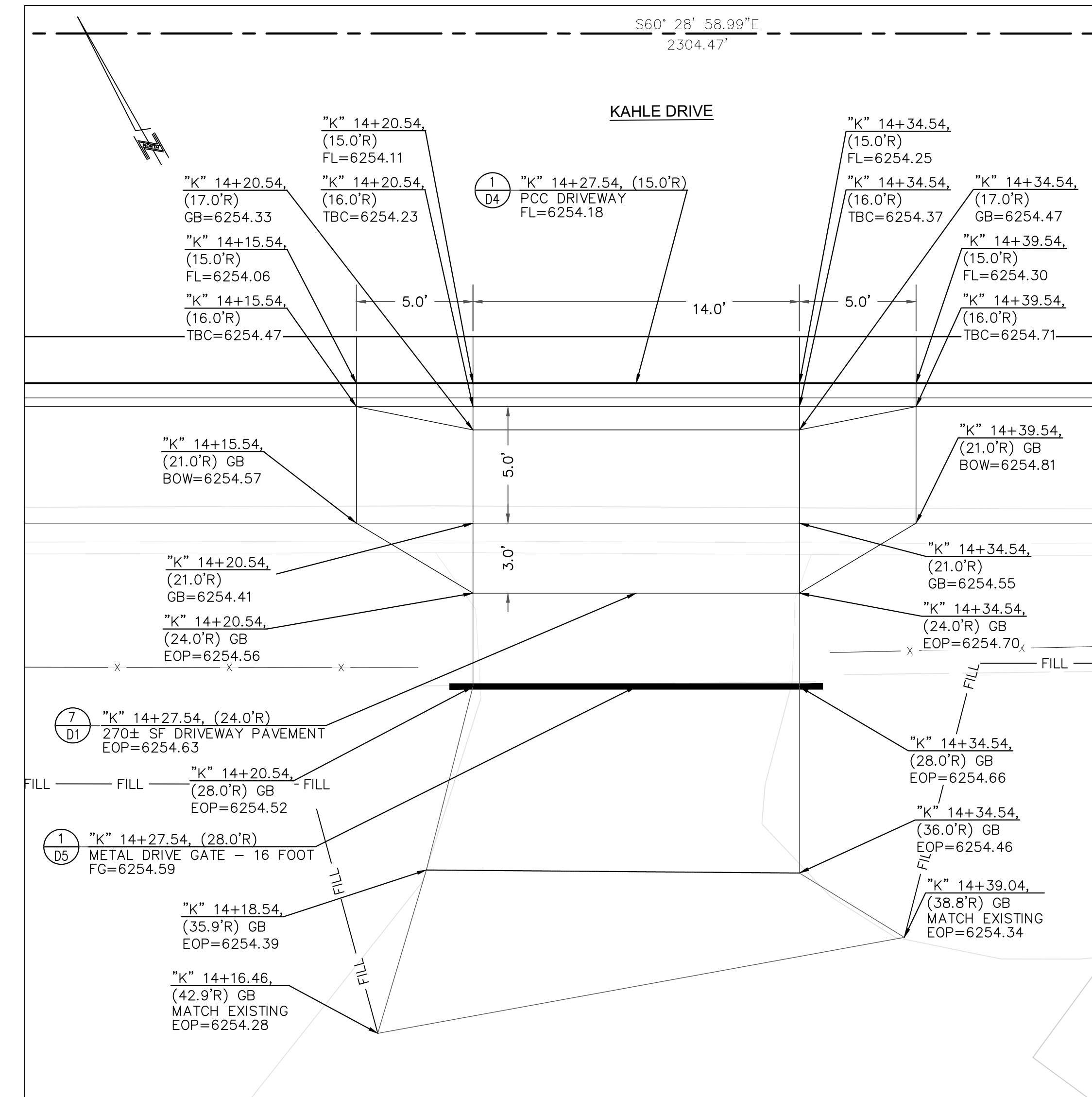
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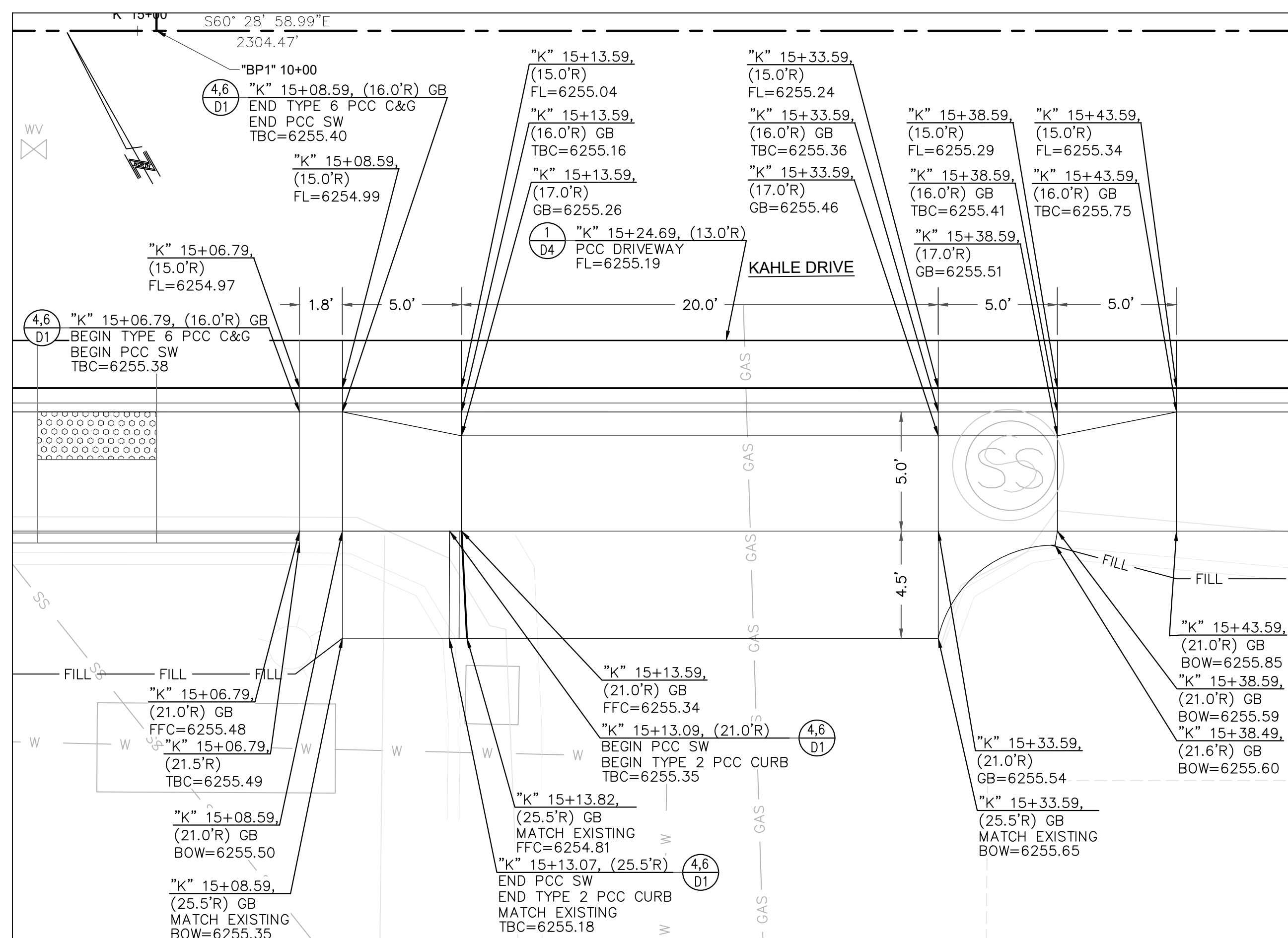
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DT4 NOT TO SCALE



2 PCC DRIVEWAY DETAIL - "K" 13+99 LT
DT4 NOT TO SCALE



3 PCC DRIVEWAY DETAIL - "K" 14+27 RT
DT4 NOT TO SCALE

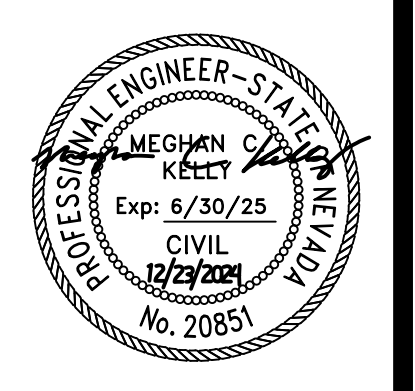


4 PCC DRIVEWAY DETAIL - "K" 15+24 RT
DT4 NOT TO SCALE

- CONSTRUCTION NOTES:**
- SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 - SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 - SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 - SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.

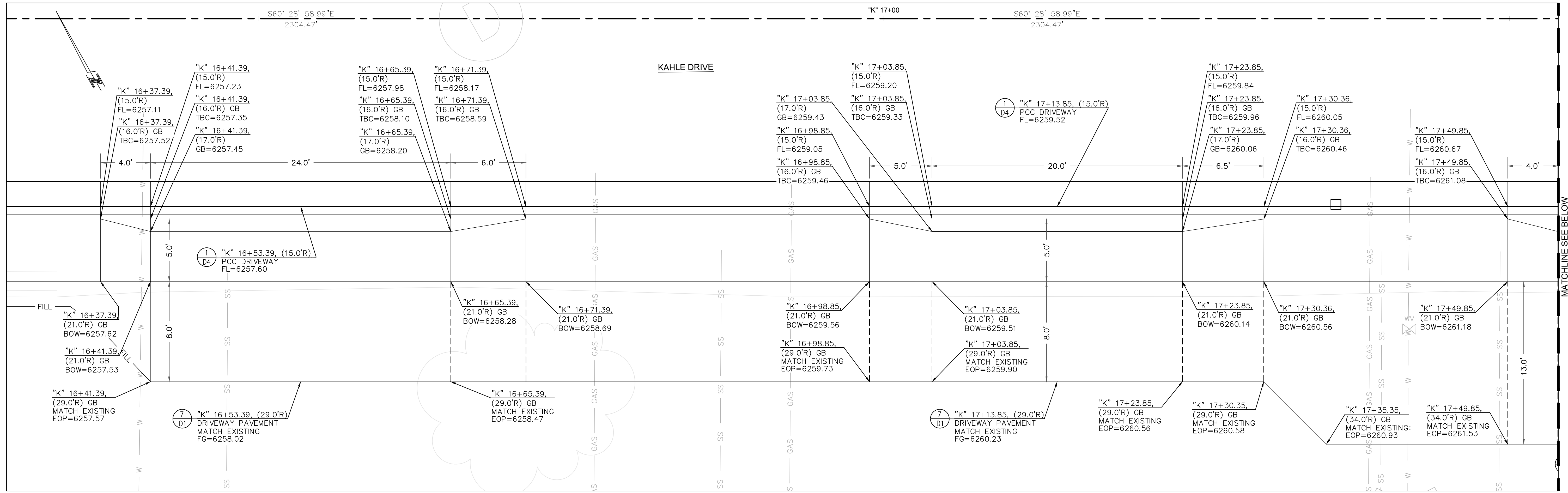


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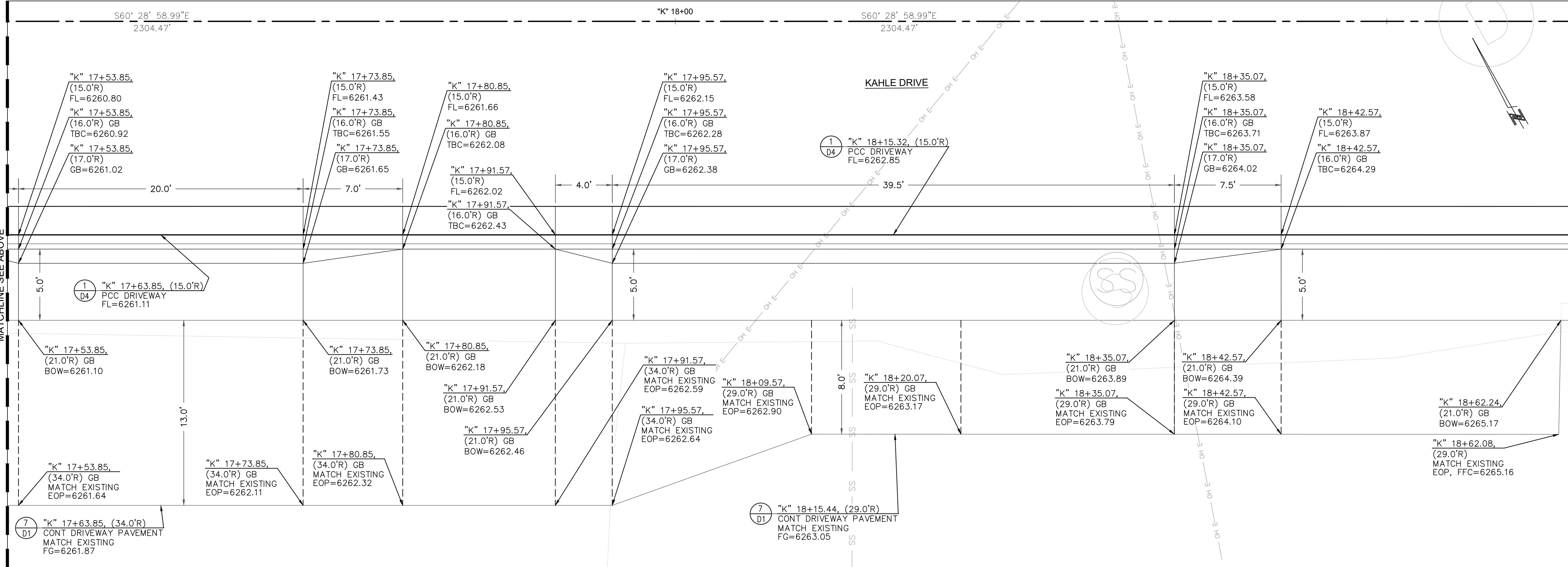


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SHEET	DT4

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1 PCC DRIVEWAY DETAIL - "K" 16+53 RT & "K" 17+13 RT
DT5 NOT TO SCALE



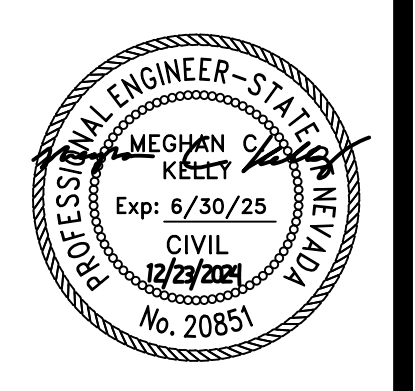
2 PCC DRIVEWAY DETAIL - "K" 17+64 & "K" 18+15 RT
DT5 NOT TO SCALE

- CONSTRUCTION NOTES:
1. SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION

DETAILS - DRIVEWAY
KAHLE DRIVE COMPLETE STREETS PROJECT



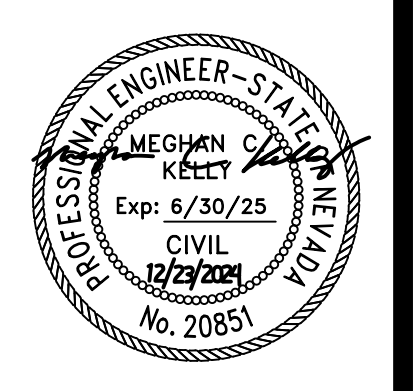
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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



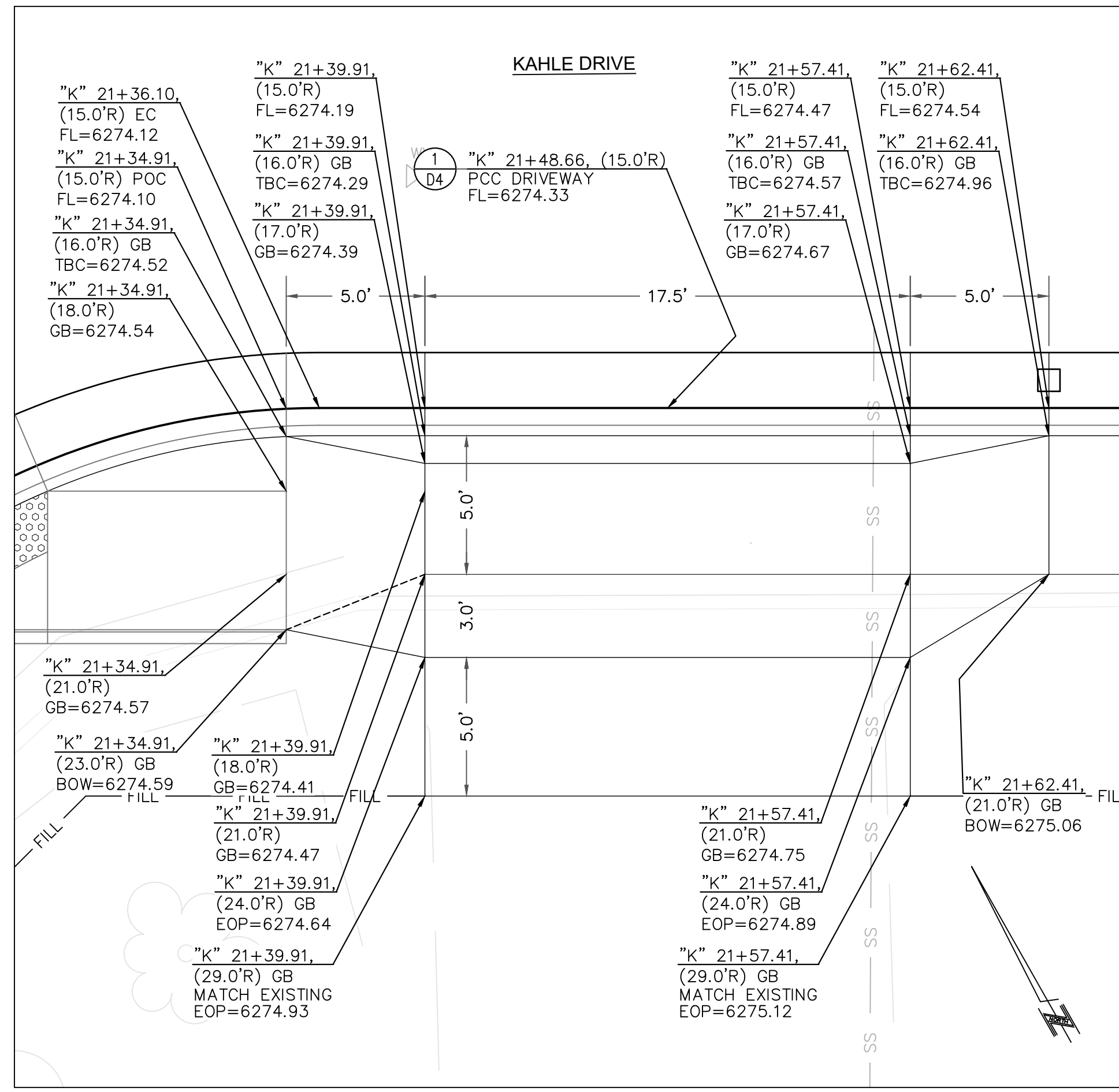
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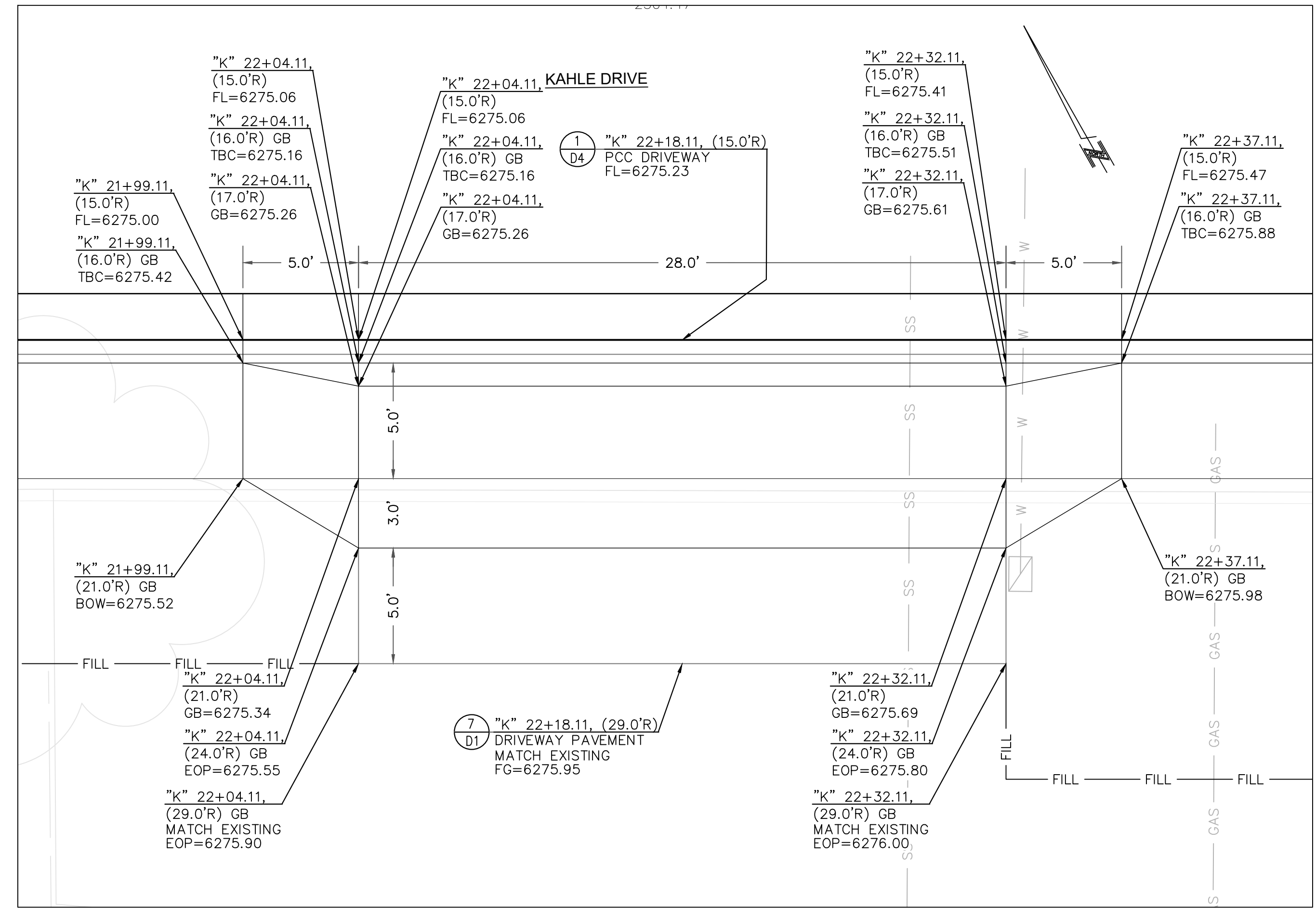
DETAILS - DRIVEWAY
KAHLE DRIVE COMPLETE STREETS PROJECT



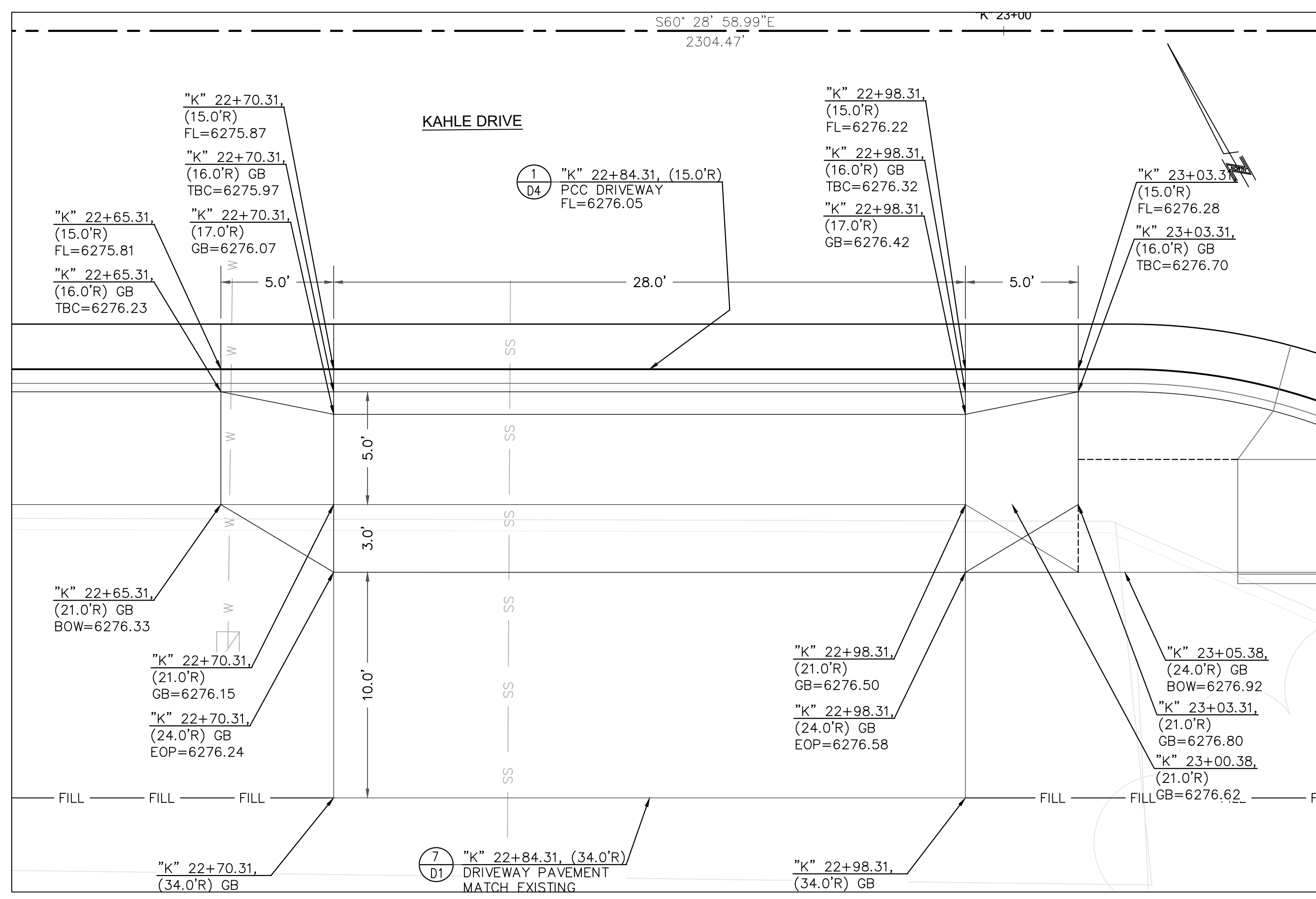
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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	DT6



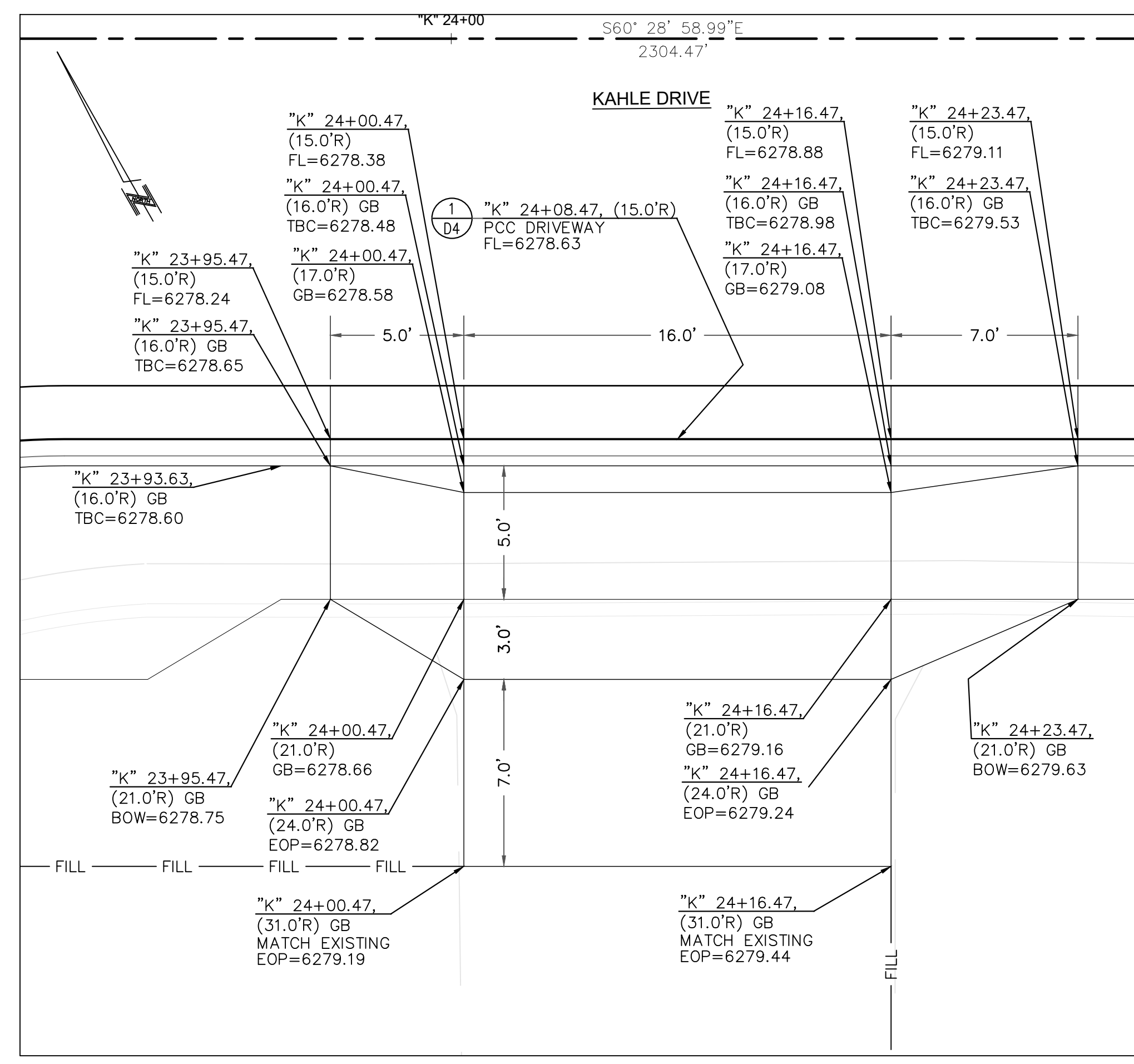
1 PCC DRIVEWAY DETAIL - "K" 21+48 RT
DT6 NOT TO SCALE



2 PCC DRIVEWAY DETAIL - "K" 22+18 RT
DT6 NOT TO SCALE



3 PCC DRIVEWAY DETAIL - "K" 22+84 RT
DT6 NOT TO SCALE

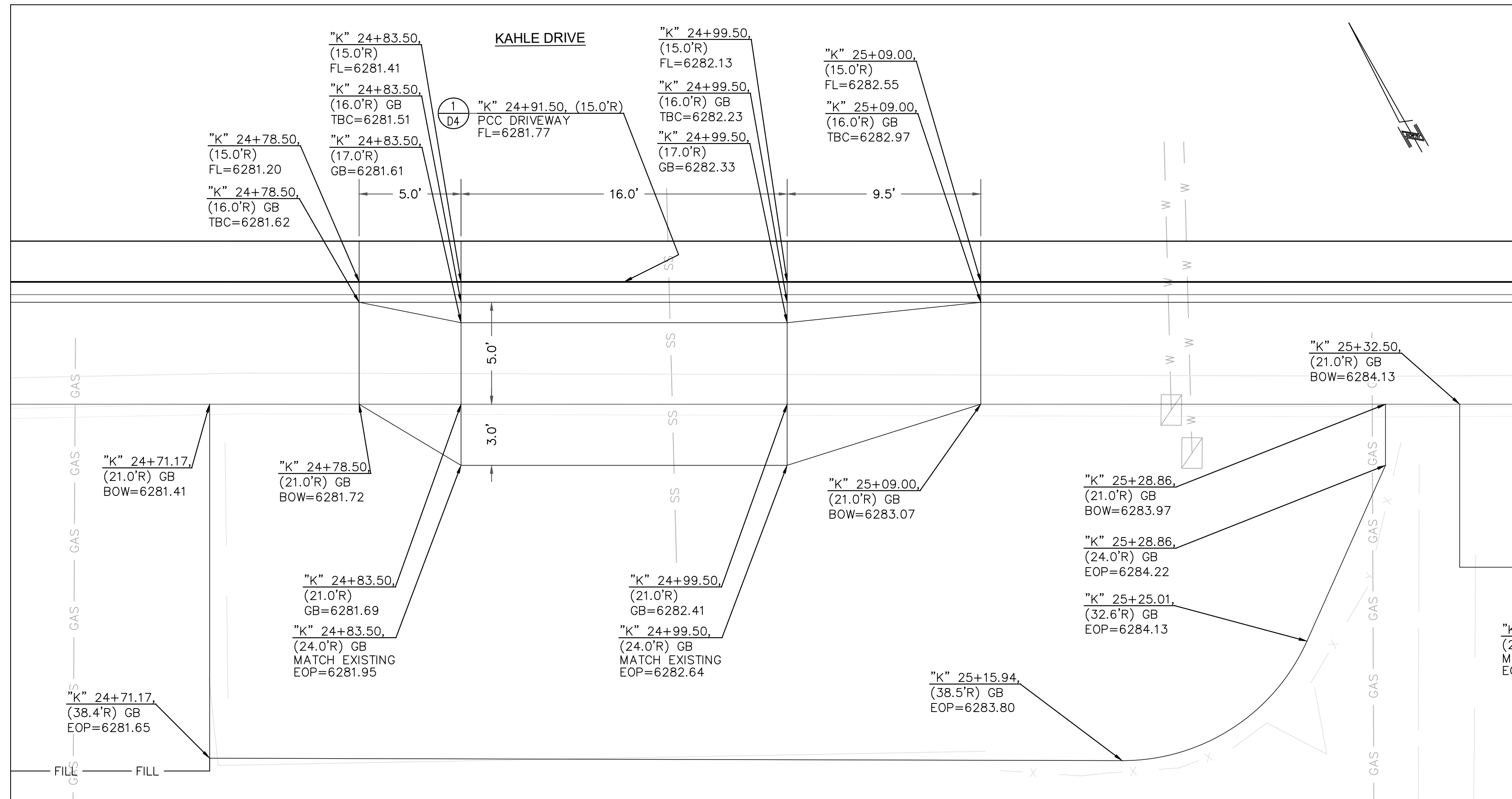


4 PCC DRIVEWAY DETAIL - "K" 24+08 RT
DT6 NOT TO SCALE

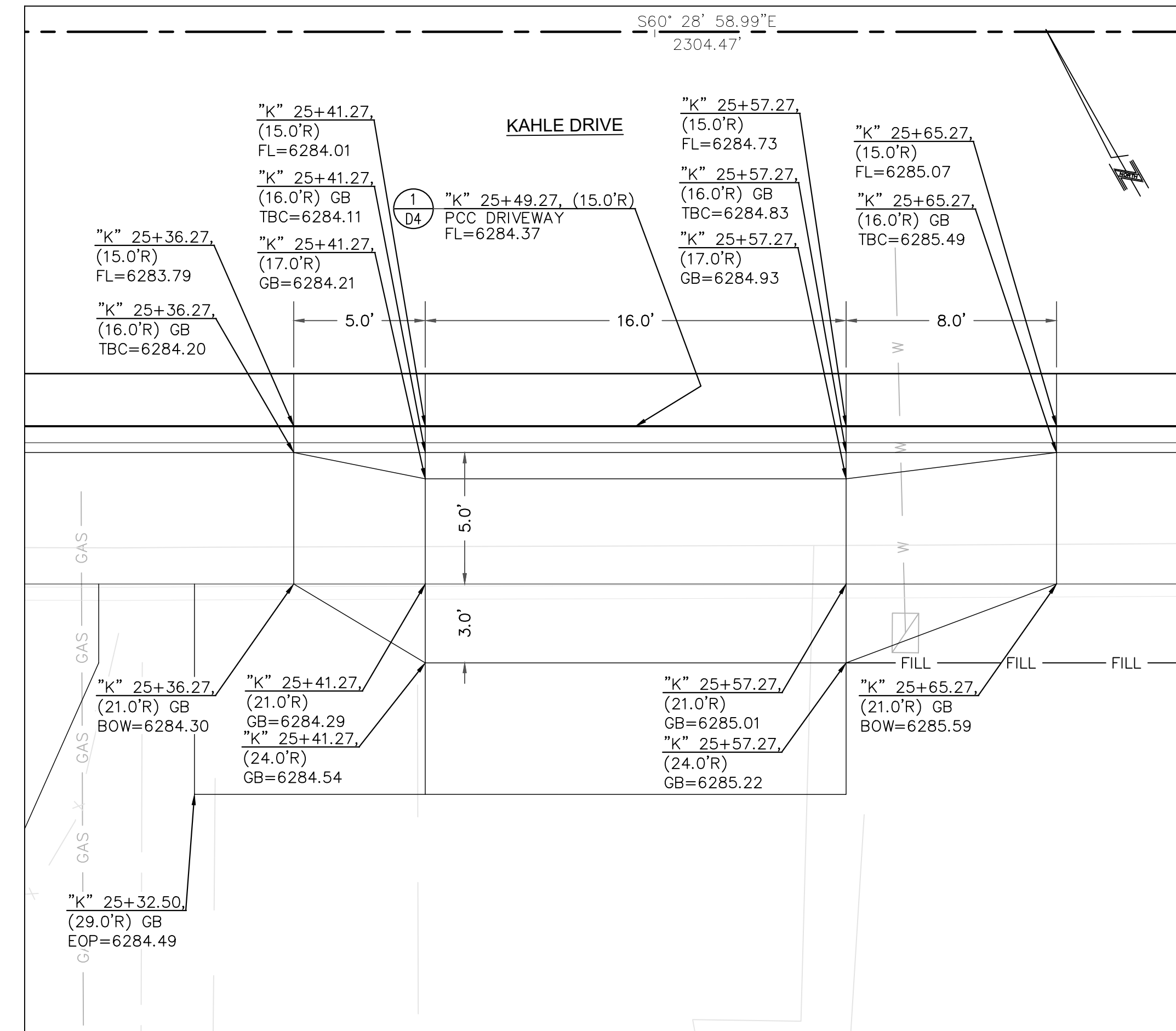
- CONSTRUCTION NOTES:**
- SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 - SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 - SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 - SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



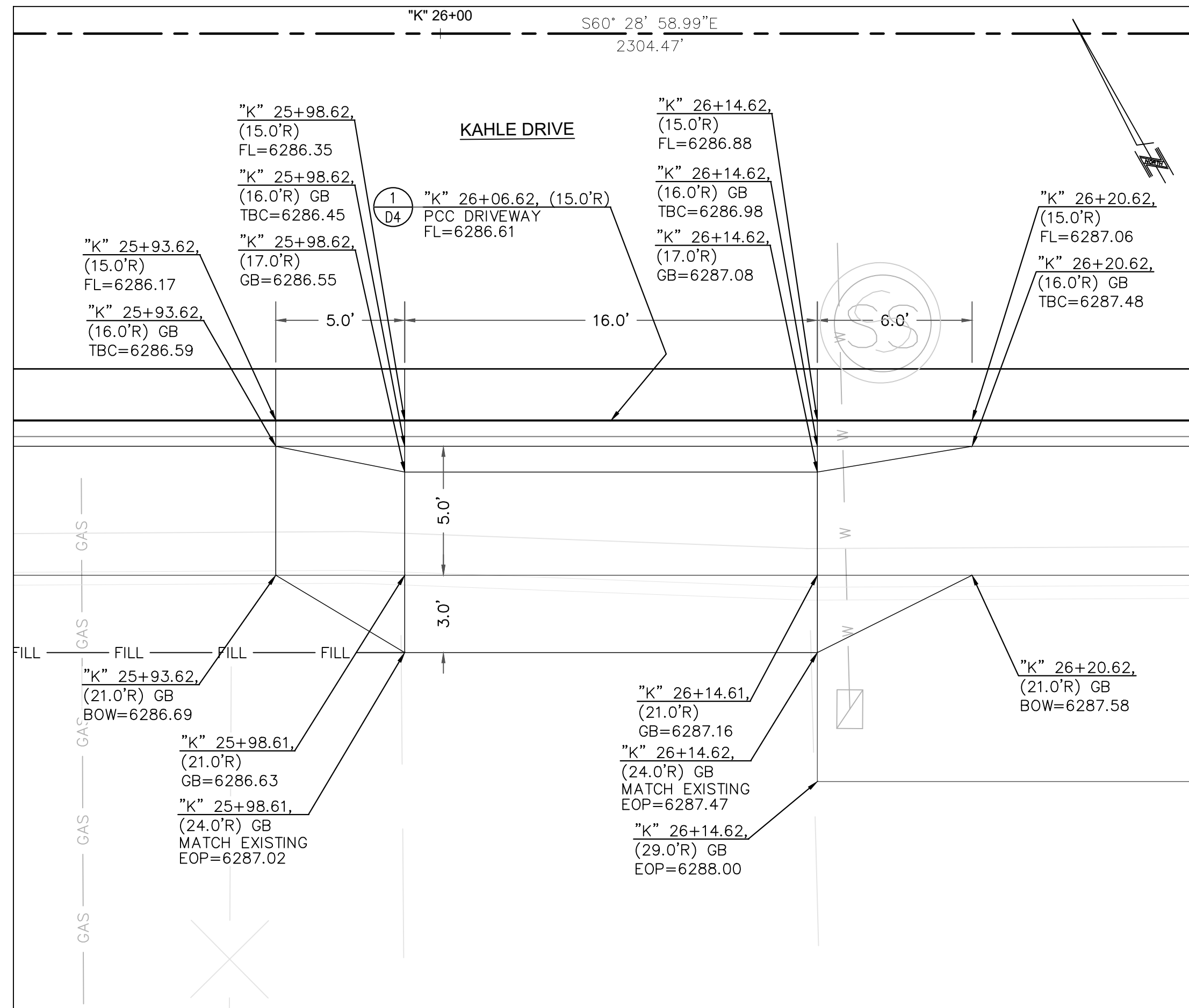
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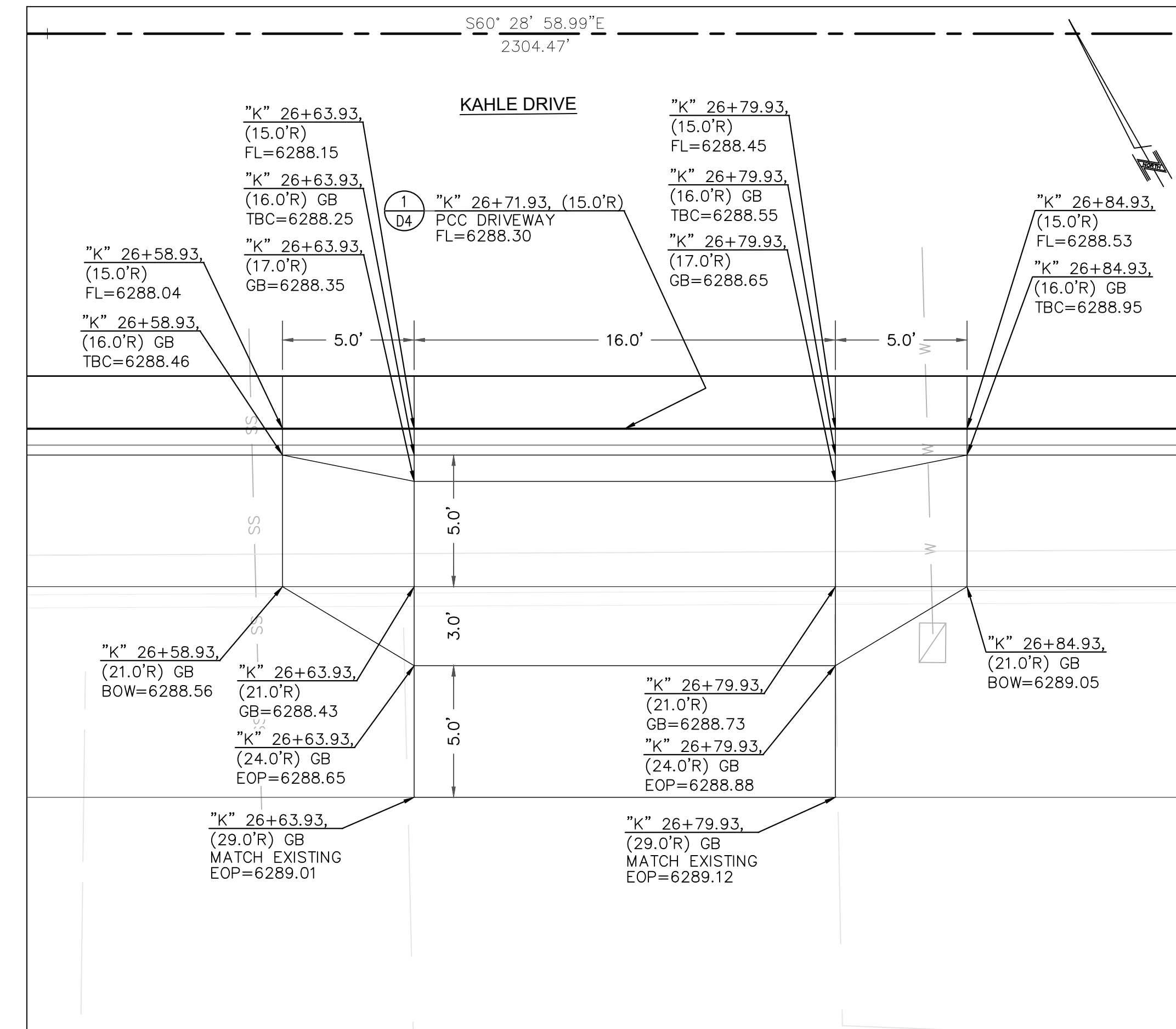
1 PCC DRIVEWAY DETAIL - "K" 25+16 RT
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2 PCC DRIVEWAY DETAIL - "K" 25+49 RT
DT7 NOT TO SCALE

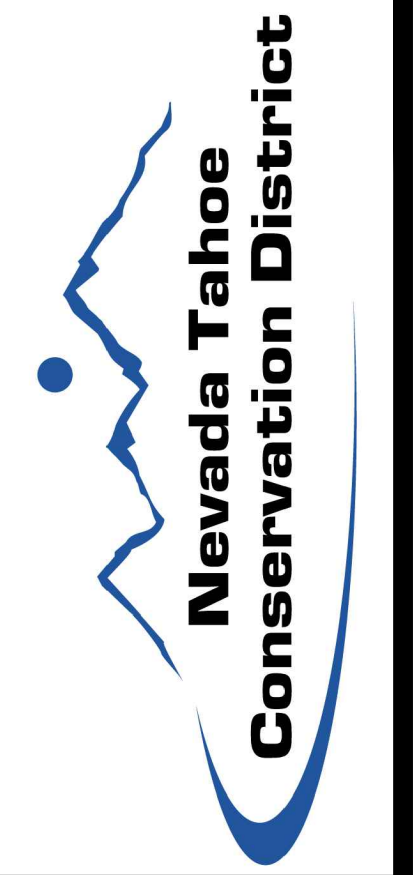


3 PCC DRIVEWAY DETAIL - "K" 26+06 RT
DT7 NOT TO SCALE



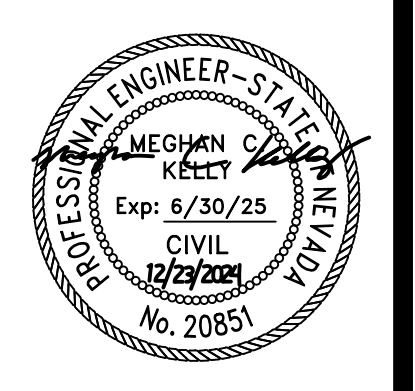
4 PCC DRIVEWAY DETAIL - "K" 26+71 RT
DT7 NOT TO SCALE

- CONSTRUCTION NOTES:**
- SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
 - SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
 - SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
 - SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



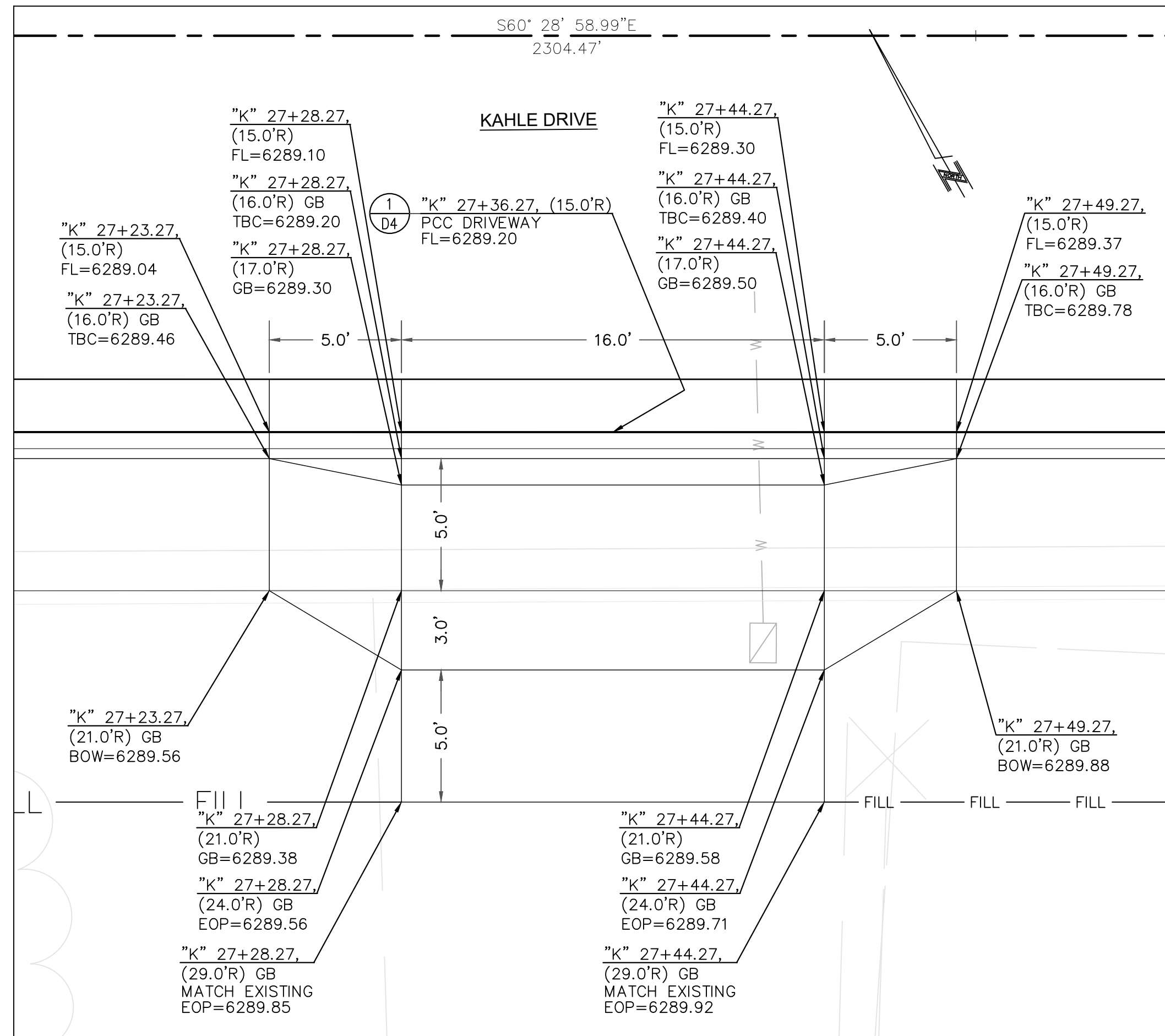
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DETAILS - DRIVEWAY
KAHLE DRIVE COMPLETE STREETS PROJECT

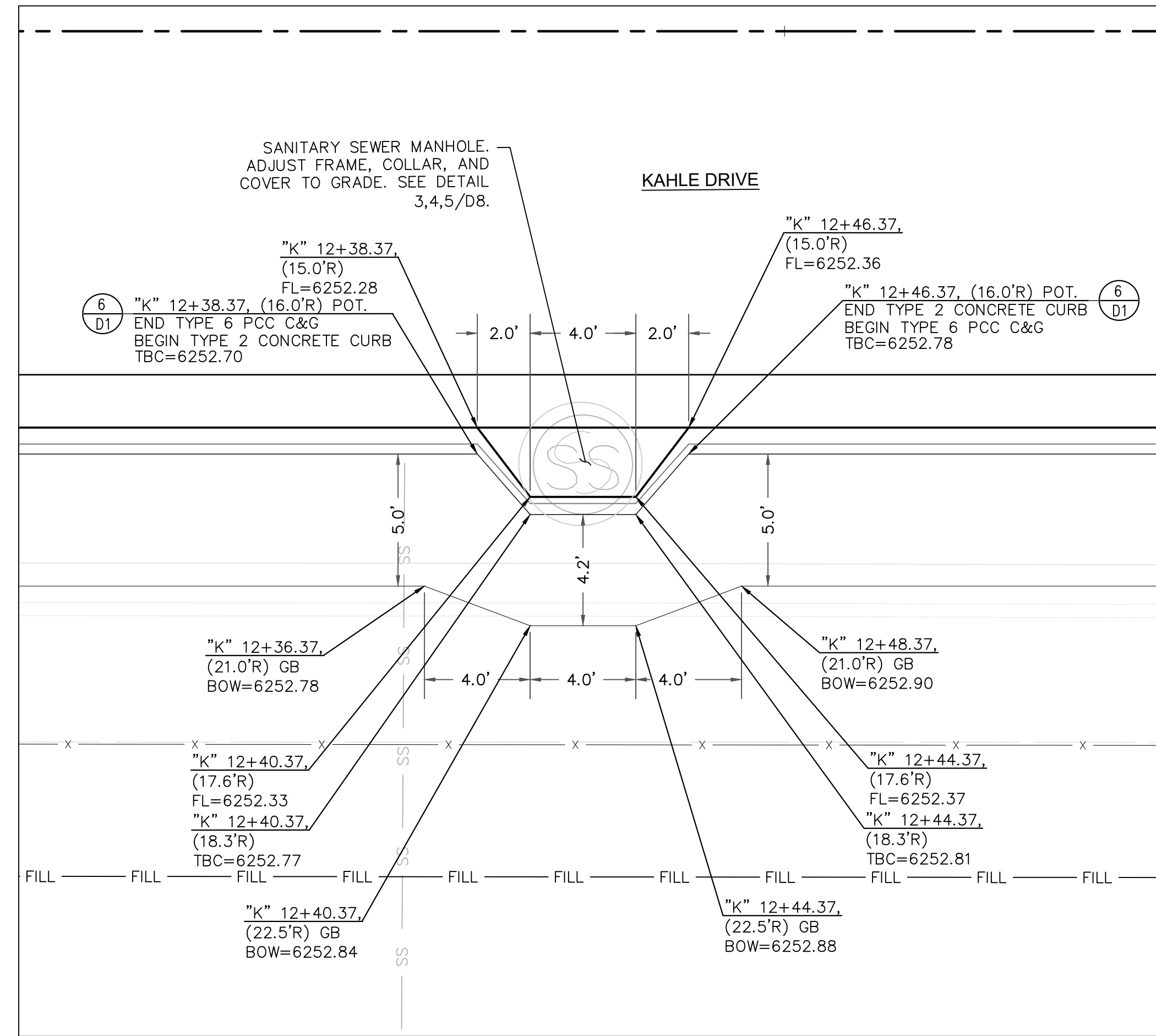


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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	DT7

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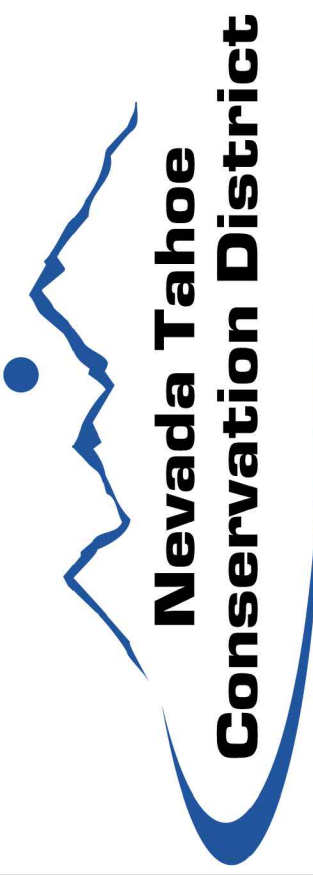
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DT8 NOT TO SCALE



2 SIDEWALK OFFSET DETAIL - 'K' 12+42 RT
DT8 NOT TO SCALE

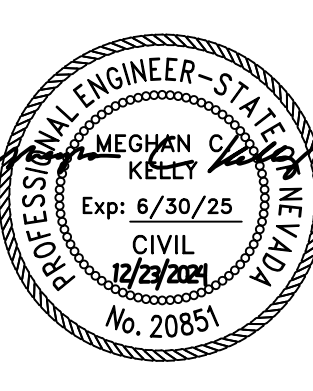
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- SEE ROADWAY CONSTRUCTION SHEETS C1-C8 FOR ADDITIONAL INFORMATION.
- SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
- SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
- SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



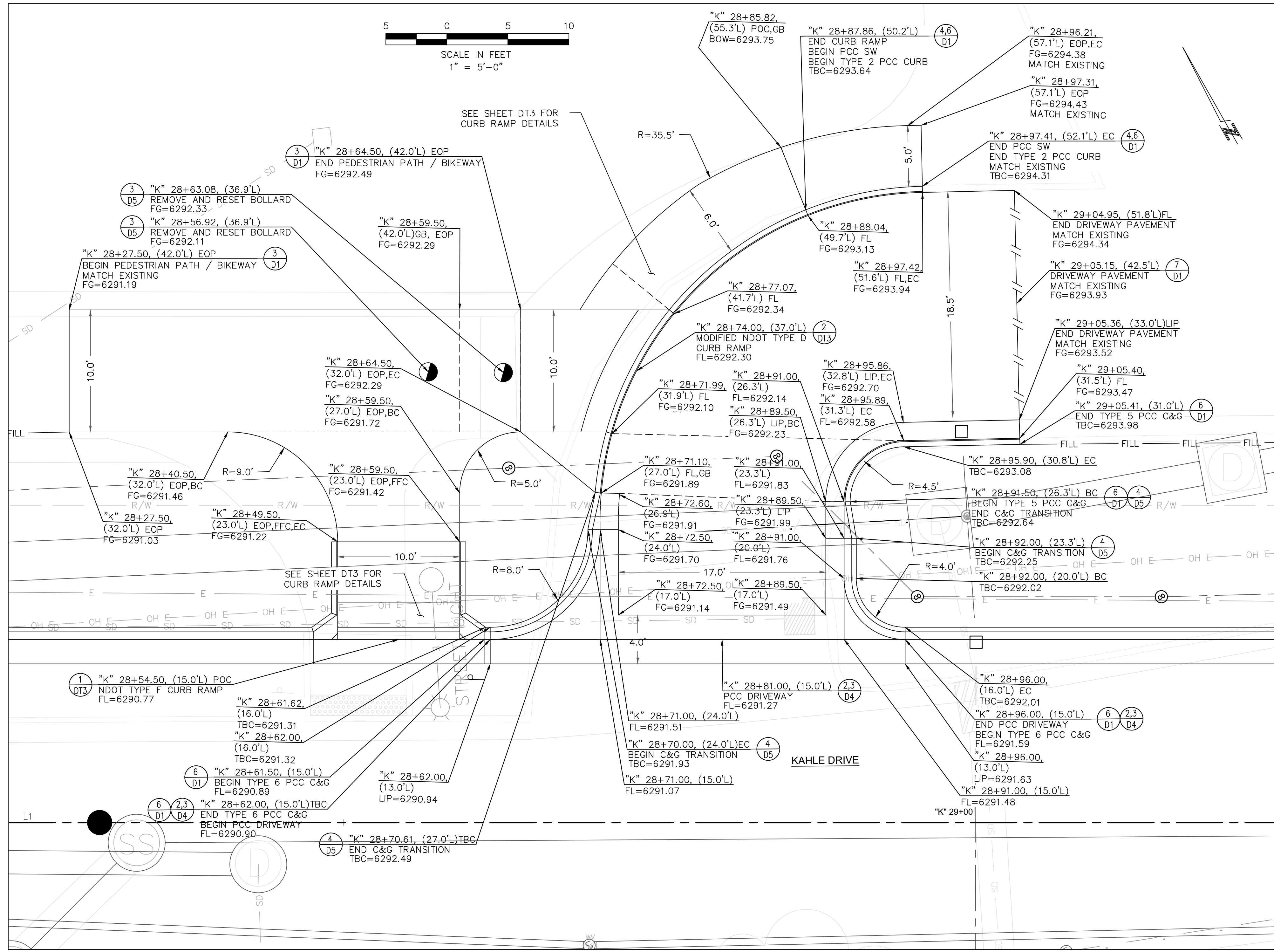
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DETAILS - DRIVEWAY
KAHLE DRIVE COMPLETE STREETS PROJECT

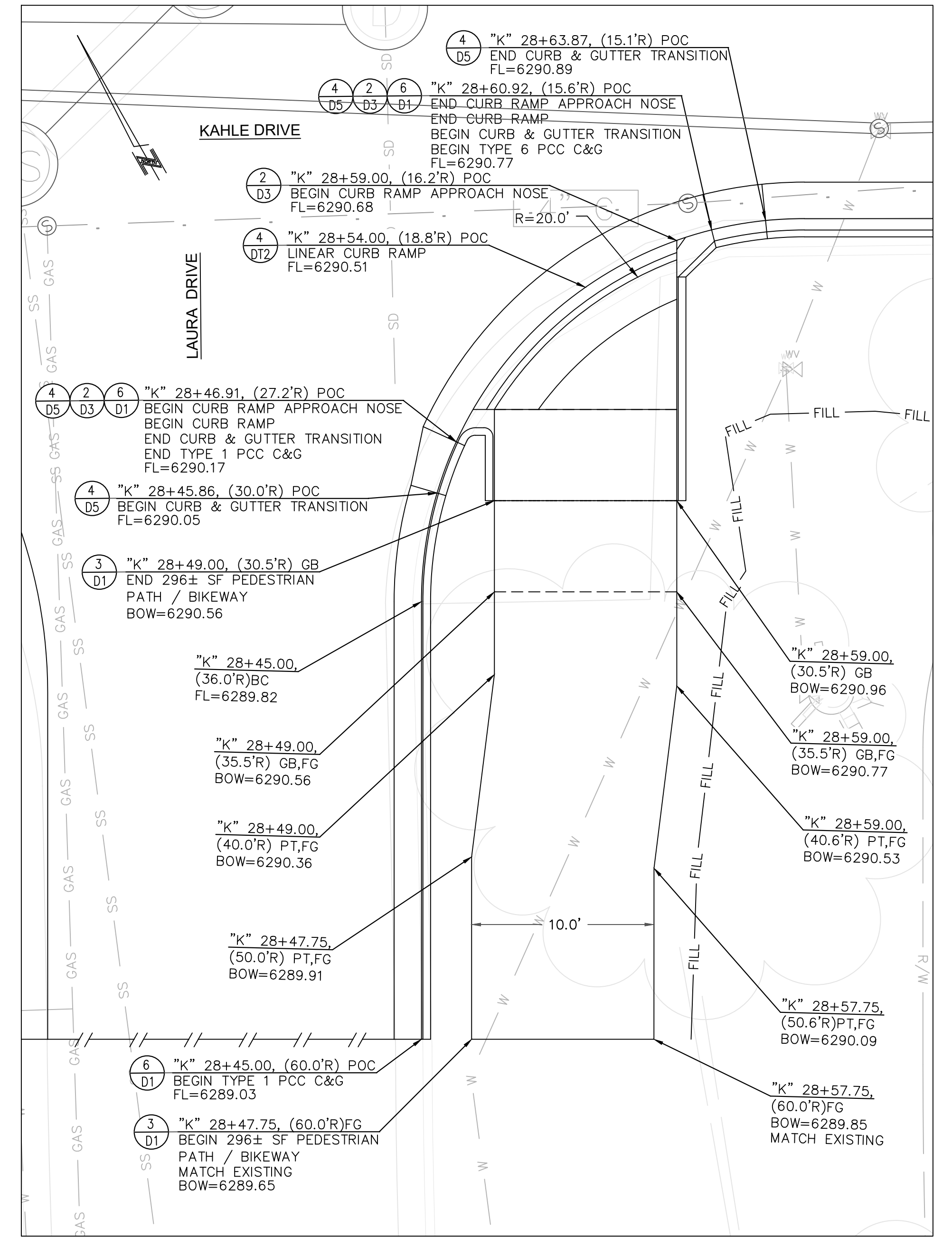
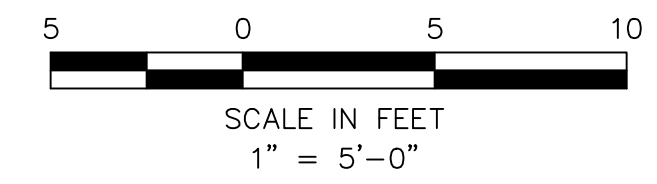


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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	DT8

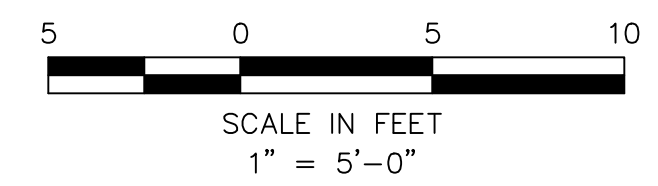
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1 DRIVEWAY & PEDESTRIAN PATH / BIKEWAY DETAIL - "K" 28+81 LT
DT9 1"=5'



2 PEDESTRIAN PATH / BIKEWAY DETAIL - "K" 28+54 RT
DT9 1"=5'



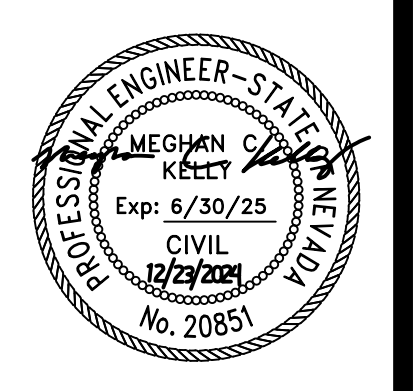
CONSTRUCTION NOTES:

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2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



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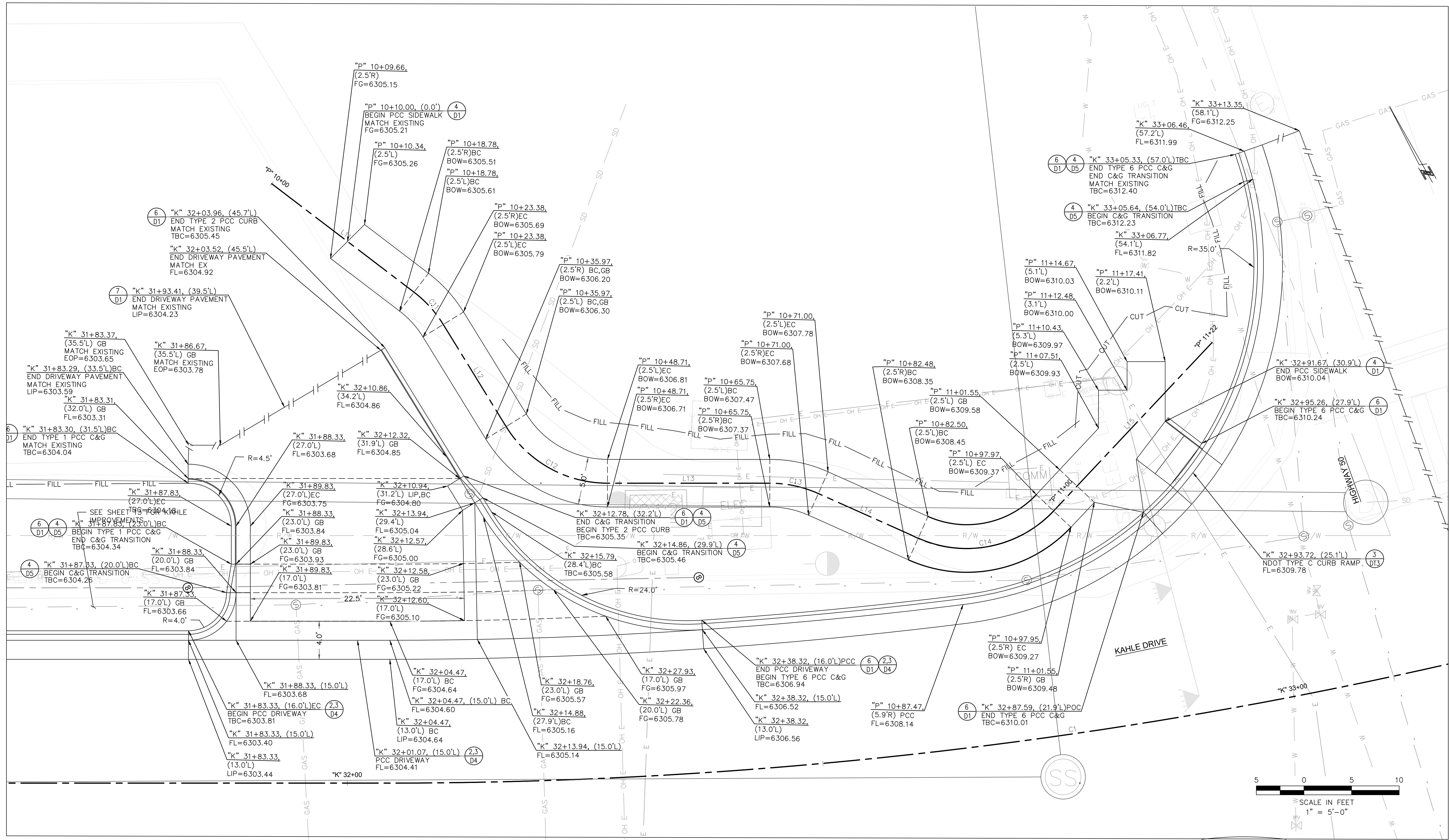
DETAILS - DRIVEWAY & PEDESTRIAN PATH - BIKEWAY
KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



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1 DRIVEWAY & SIDEWALK DETAIL - "K" 32+01 LT
DT10 1"=5'

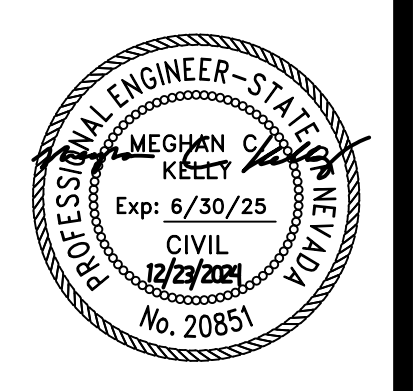
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2. SEE CURB RAMP AND DRIVEWAY DETAIL SHEETS DT1-DT11 FOR ADDITIONAL INFORMATION.
3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



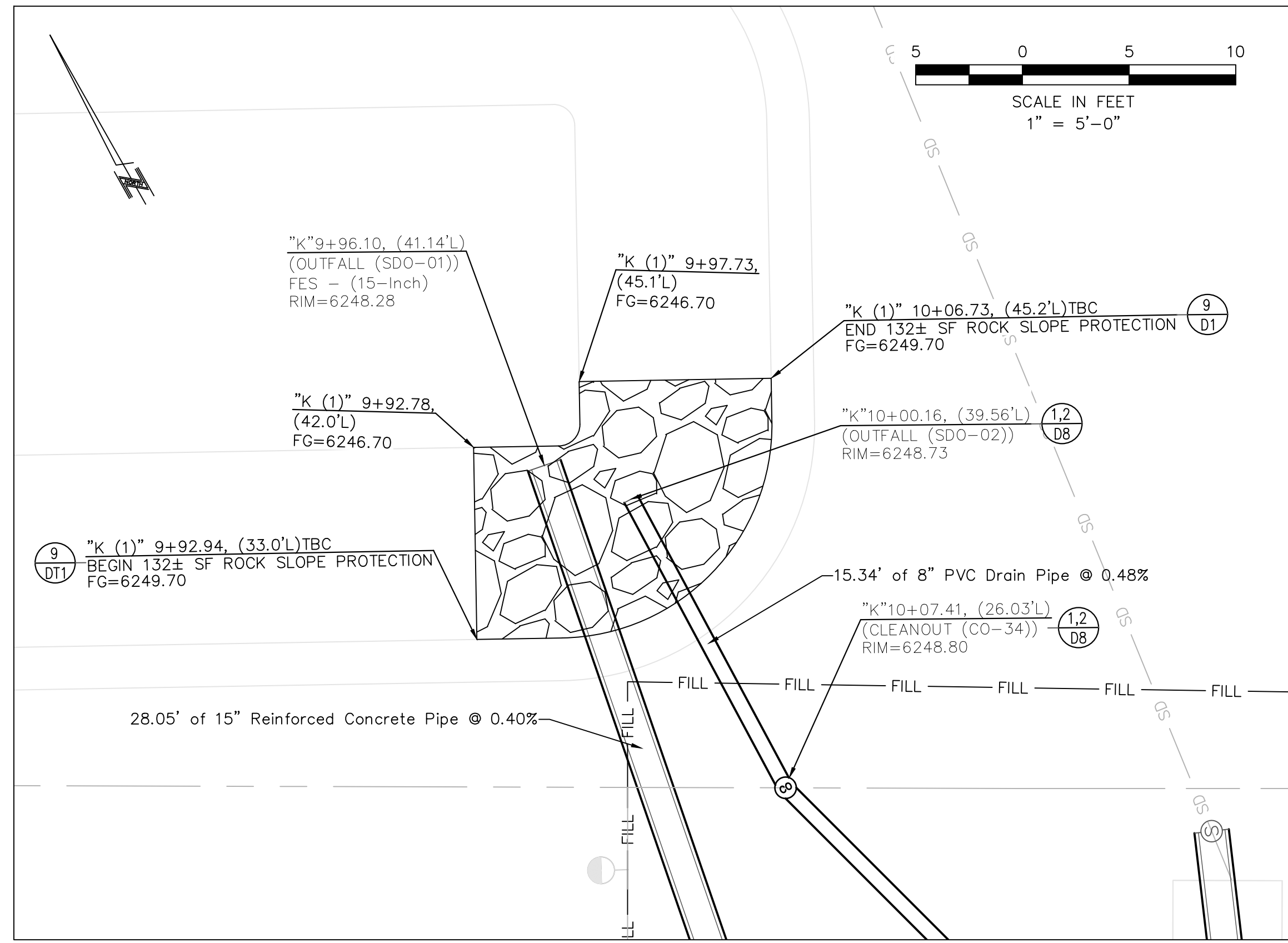
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DETAILS - DRIVEWAY & SIDEWALK
KAHLE DRIVE COMPLETE STREETS PROJECT

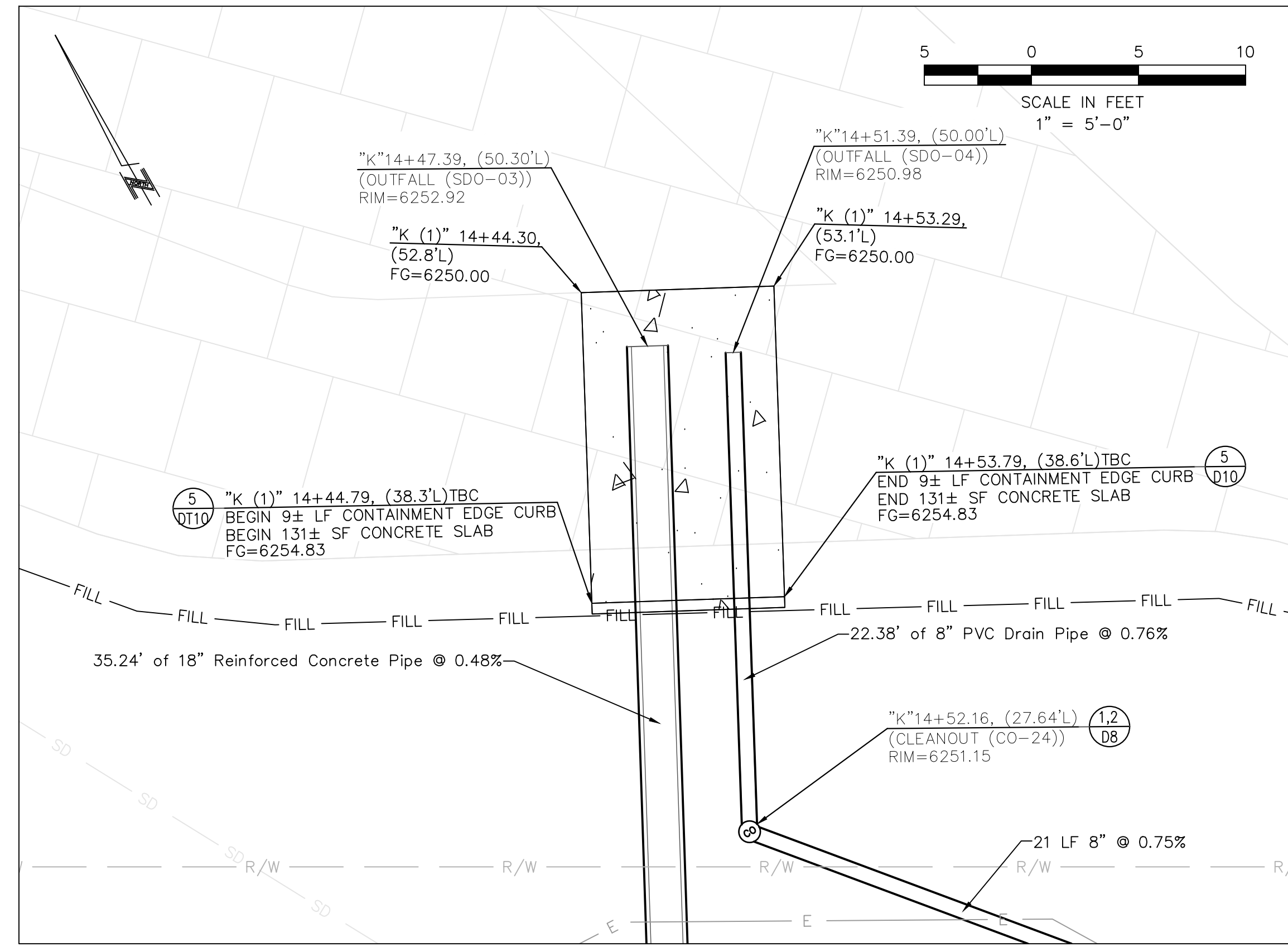


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PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET

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1 BASIN OUTFALL "K" 10+00 DETAIL
DT11 1"=5'



2 BASIN OUTFALL "K" 14+50 DETAIL
DT11 1"=5'

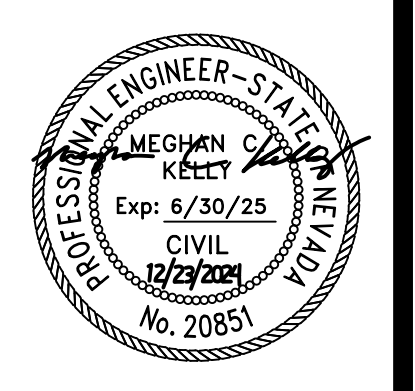
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3. SEE DRAINAGE SHEETS C9 FOR ADDITIONAL DRAINAGE AND SUBDRAIN INFORMATION.
4. SEE LOCATION CONTROL SHEET G5 FOR ALIGNMENT AND CONTROL INFORMATION.



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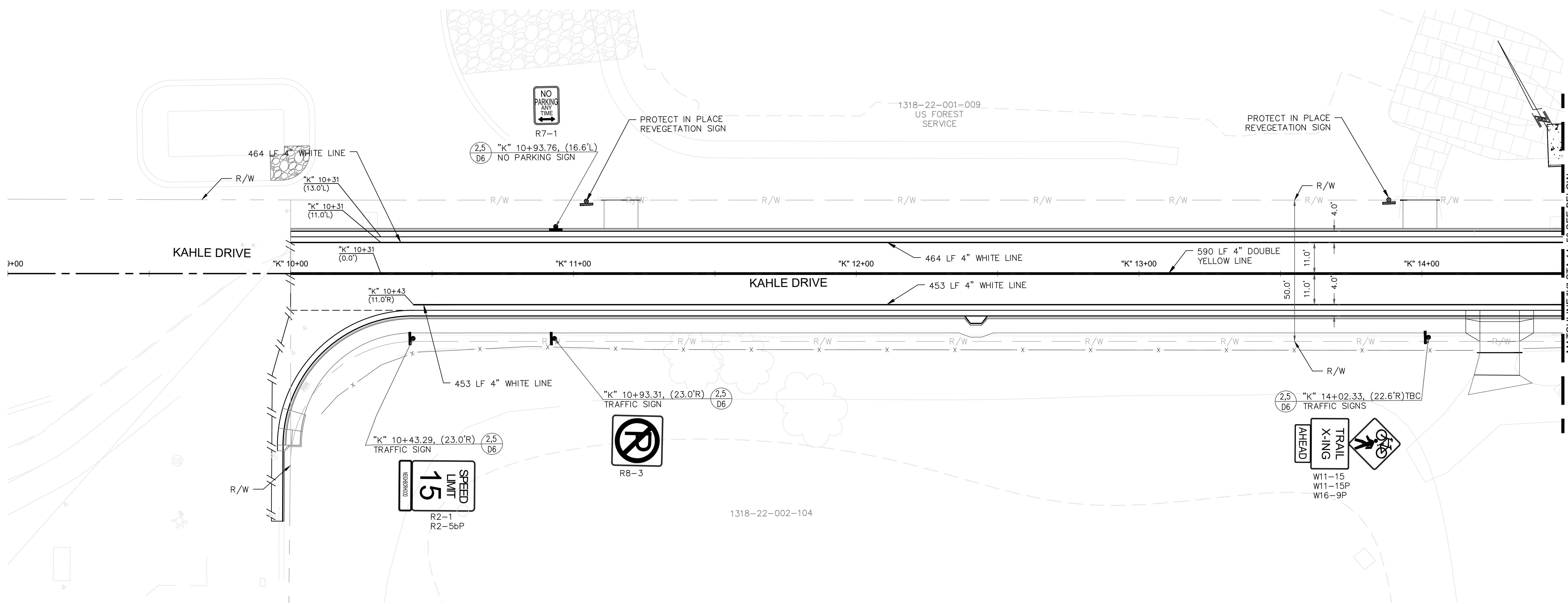
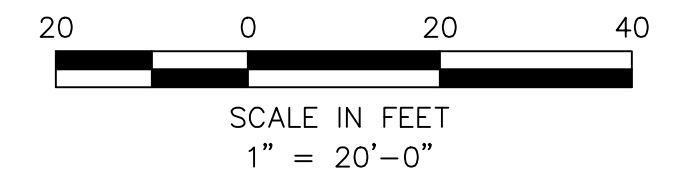
DETAILS - BASIN OUTFALL
KAHLE DRIVE COMPLETE STREETS PROJECT



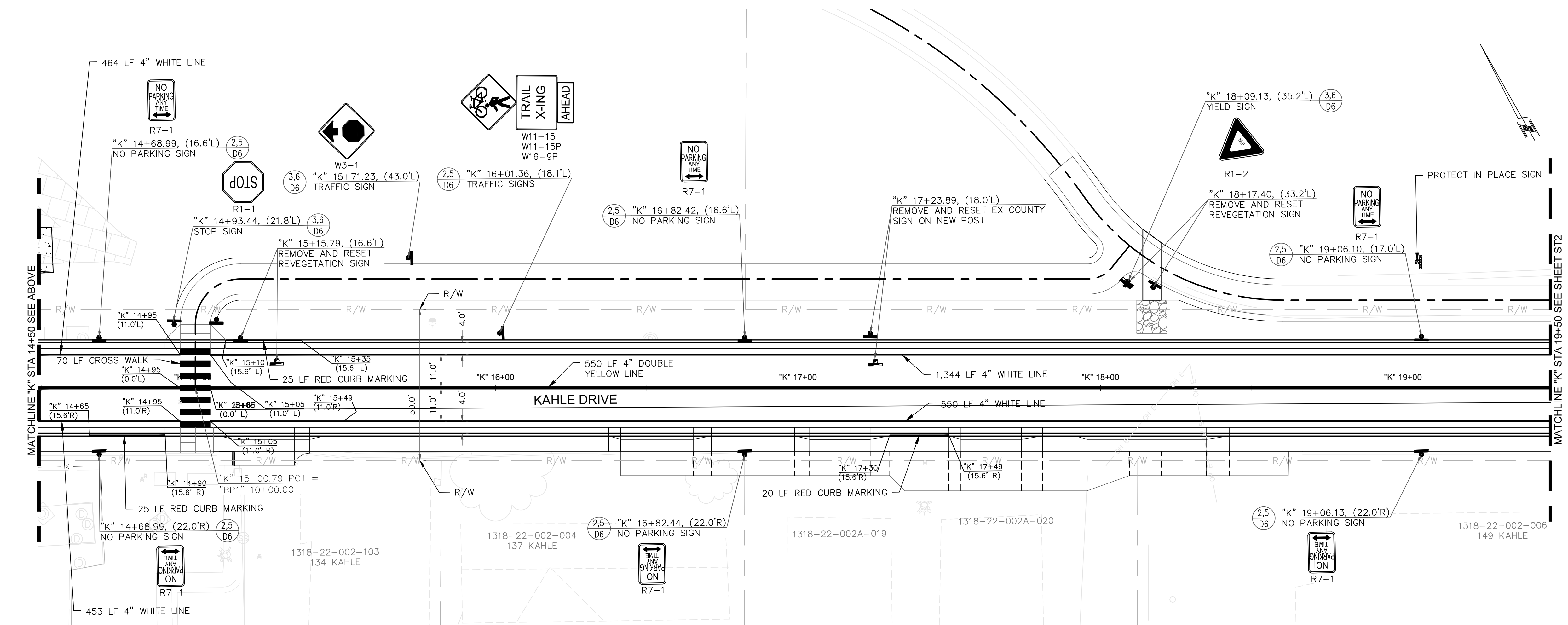
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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	DT11



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PLAN



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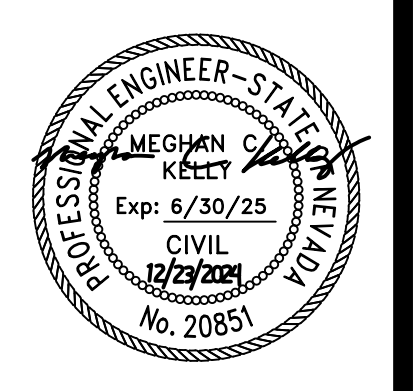
- NOTES:
- FOR DOUBLE SOLID YELLOW STRIPING DETAIL, SEE DETAIL 4/D6.
 - FOR CROSSWALK AND STOP BAR MARKINGS, SEE DETAIL 7/D6.

- LEGEND
- REMOVE SIGN
 - PROTECT IN PLACE SIGN
 - REMOVE AND RESET SIGN
 - SIGN



REVISIONS	
NO.	DESCRIPTION

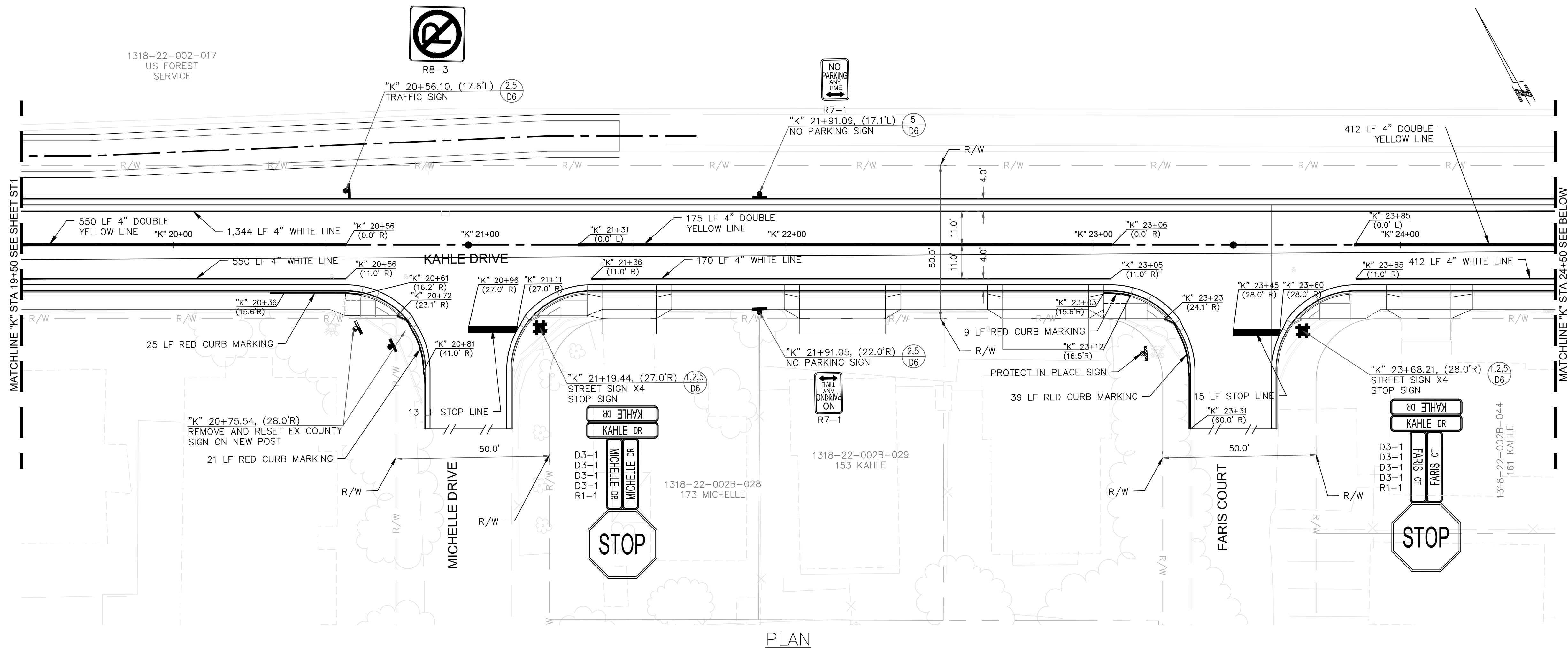
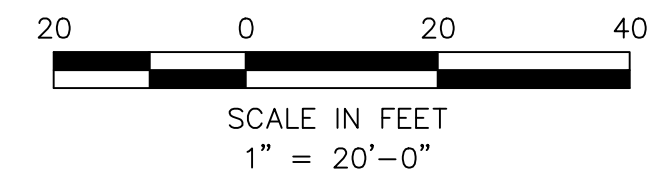
SIGNING AND STRIPING "K" 9+00 TO "K" 19+50
KAHLE DRIVE COMPLETE STREETS PROJECT



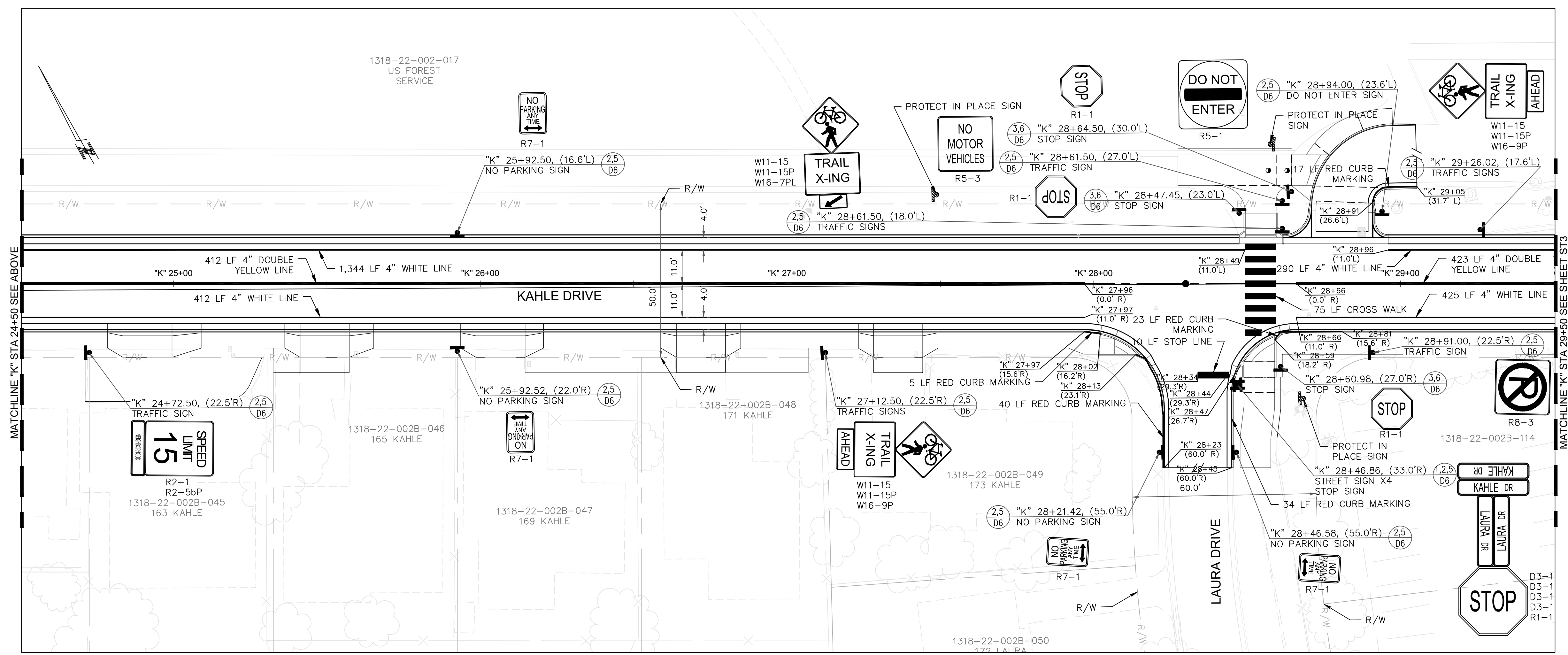
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CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



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PLAN



PLAN

- NOTES:
- FOR DOUBLE SOLID YELLOW STRIPING DETAIL, SEE DETAIL 4/D6.
 - FOR CROSSWALK AND STOP BAR MARKINGS, SEE DETAIL 7/D6.

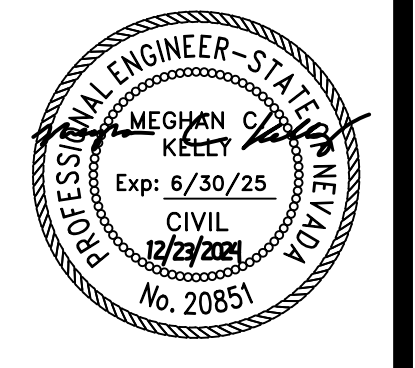
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REVISIONS

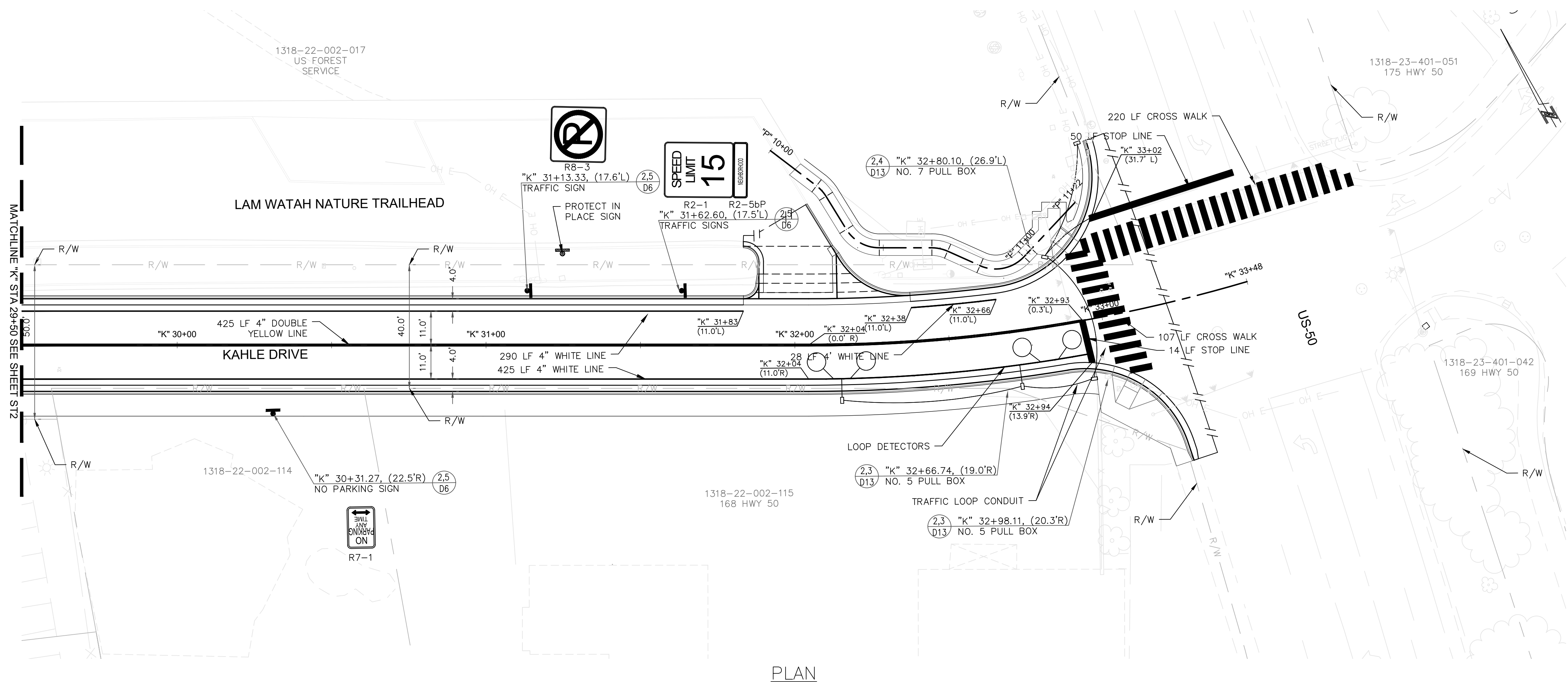
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SIGNING AND STRIPING "K" 19+50 TO "K" 29+50
KAHLE DRIVE COMPLETE STREETS PROJECT

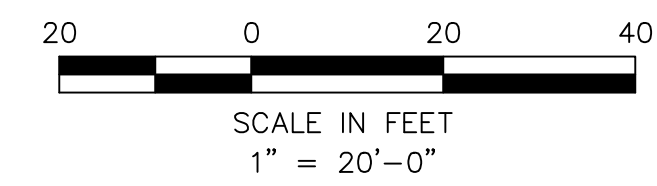


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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	





PLAN



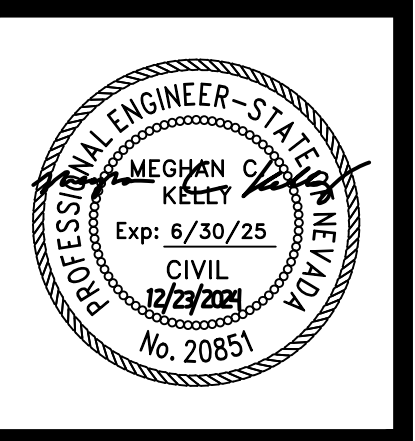
- NOTES:
1. FOR DOUBLE SOLID YELLOW STRIPING DETAIL, SEE DETAIL 4/D6.
 2. FOR CROSSWALK AND STOP BAR MARKINGS, SEE DETAIL 7/D6.
 3. FOR CONDUIT TRENCH DETAIL, SEE DETAIL 1/D13.
 4. FOR LOOP DETECTOR DETAIL, SEE DETAIL 5/D13.

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	PROTECT IN PLACE SIGN
	REMOVE AND RESET SIGN
	SIGN



REVISIONS	
NO.	DESCRIPTION

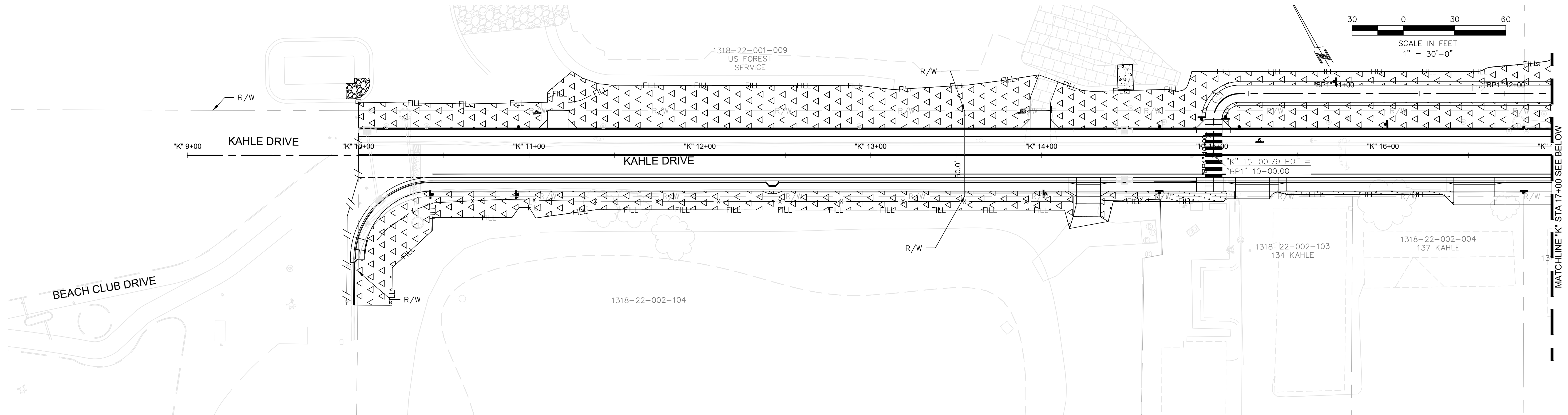
**SIGNING AND STRIPING "K" 29+50 TO "K" 33+50
KAHLE DRIVE COMPLETE STREETS PROJECT**



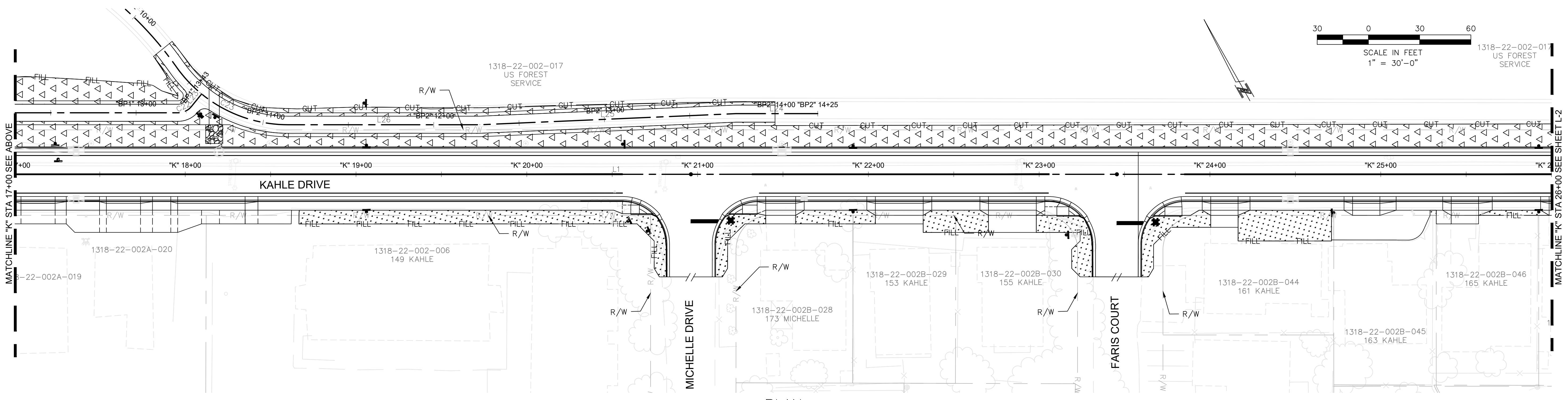
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SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	



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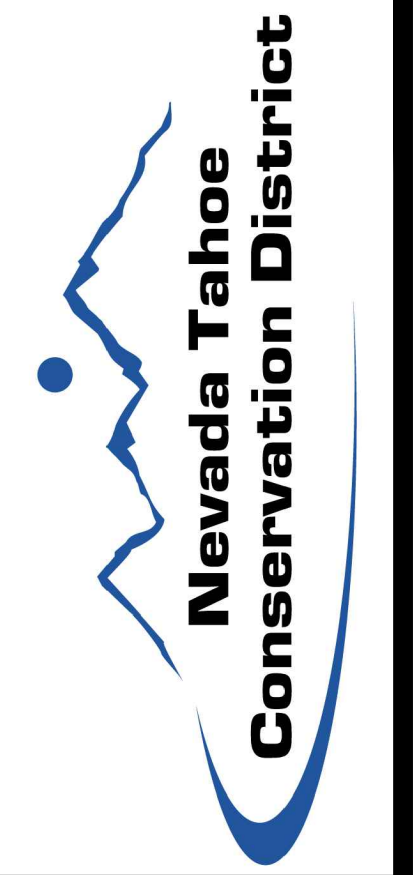
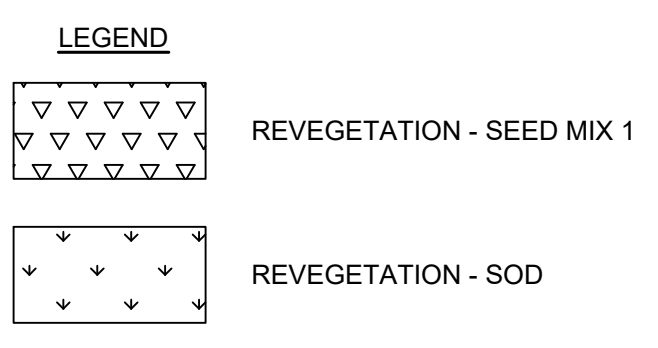


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REVEGETATION NOTES:

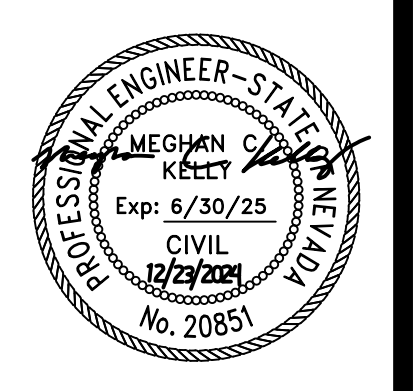
- WORK SHALL BE CONDUCTED AND/OR OVERSEEN BY A LICENSED LANDSCAPE CONTRACTOR (C-10) IN THE STATE OF NEVADA AND WILL BE INSPECTED BY THE ENGINEER. THE CONTRACTOR SHALL PERFORM ALL REVEGETATION WORK AS SPECIFIED HEREIN AND IN ACCORDANCE WITH THE PROVISIONS OF THESE SPECIAL TECHNICAL PROVISIONS, THE PROJECT PLANS, AND THE STANDARD SPECIFICATIONS. THE REVEGETATION WORK SHALL CONSIST OF ALL SITE PREPARATION ASSOCIATED WITH THE REVEGETATION TREATMENTS; AND RECORD KEEPING.
- AREAS TO RECEIVE REVEGETATION TREATMENTS SHALL INCLUDE ALL AREAS DISTURBED DURING CONSTRUCTION AND ALL AREAS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER AND/OR THE RS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NO LESS THAN TEN (10) WORKING DAYS IN ADVANCE OF REVEGETATION WORK AND SHALL NOT BEGIN WORK UNTIL PREPARED REVEGETATION TREATMENT AREAS HAVE BEEN ACCEPTED BY THE ENGINEER AND RS. THE CONTRACTOR SHALL REQUEST THAT TREATMENT TYPES AND BOUNDARIES ARE LOCATED BY THE ENGINEER AND/OR RS PRIOR TO PROGRESSING WITH THE WORK.
- NO SUBSTITUTIONS OR ALTERATIONS TO THESE SPECIAL TECHNICAL PROVISIONS SHALL BE ACCEPTED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER. NO FURTHER DISTURBANCE OF ANY TREATMENT AREA SHALL BE ALLOWED ONCE REVEGETATION HAS BEEN INITIATED.
- SOIL DISTURBANCE SHALL BE MINIMIZED AND LIMITED TO THOSE AREAS THAT REQUIRE TREATMENT. ALL EXISTING VEGETATION WITHIN THE PROJECT LIMITS NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED. DELINEATE PROJECT BOUNDARIES WITH FENCING PER THE REQUIREMENTS IN CONSTRUCTION LIMIT FENCING AND IN THESE SPECIAL TECHNICAL PROVISIONS. TRAFFIC OUTSIDE OF PROJECT AREA IS PROHIBITED. ANY EXISTING OR PREVIOUSLY INSTALLED VEGETATION DAMAGED SHALL BE REPLACED BY THE CONTRACTOR. AREAS TO RECEIVE REVEGETATION TREATMENTS SHALL INCLUDE ALL AREAS DISTURBED DURING CONSTRUCTION, AS INDICATED ON THE PROJECT PLANS AND AS DIRECTED BY THE ENGINEER.
- DECOMPACT SOILS TO ACHIEVE A MAXIMUM OF 85% COMPACTION FOR AN 8" MINIMUM DEPTH. APPLY REVEGETATION SEED MIX, INCORPORATE. APPLY RICE STRAW OR WOOD CHIP MULCH TO ACHIEVE 100% COVER. NO MORE THAN 2" IN DEPTH.

Seed Mix 1		
Species (Common Name)	Species (Botanical Name)	LBS per Acre
California Sierra Brome	<i>Bromus carinatus</i>	4.00
Sandberg Bluegrass 'Sherman'	<i>Poa secunda</i>	1.00
Slender Wheatgrass 'Revenue', or 'Pryor'	<i>Elymus trachycaulus</i>	4.00
Squirreltail	<i>Elymus elymoides</i>	2.00
Total PLS LBS/ACRE RATE		11.00



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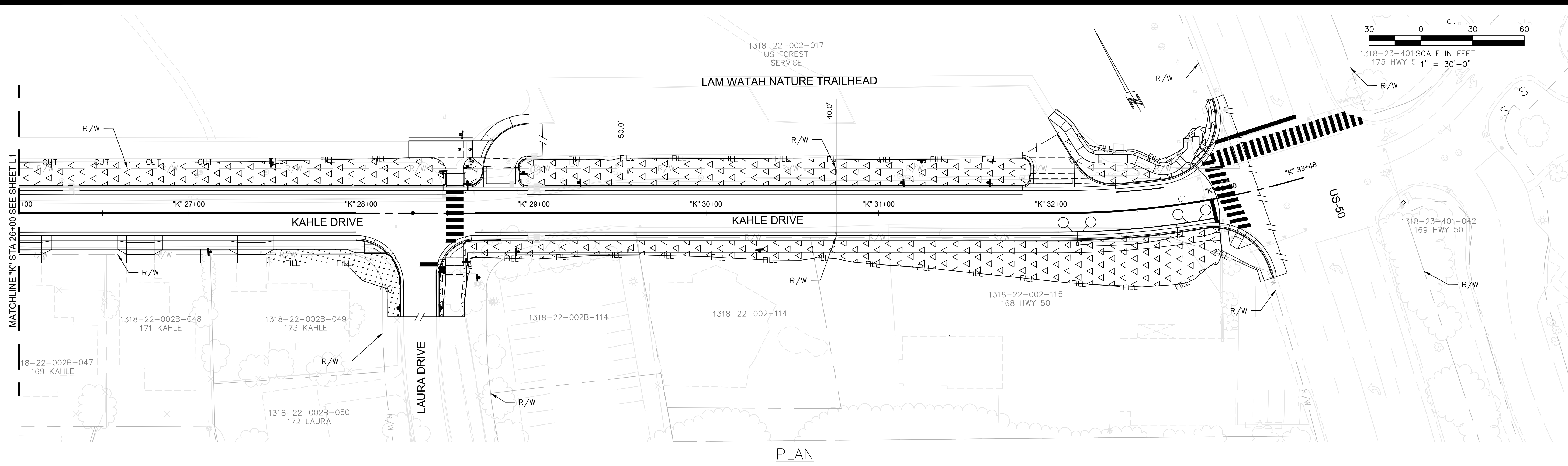
**LANDSCAPE AND REVEGETATION
PLAN "K" 9+00 TO "K" 26+00
KAHLE DRIVE COMPLETE STREETS PROJECT**



DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



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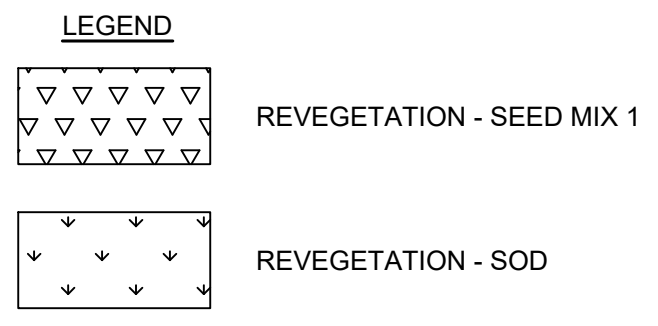


PLAN

REVEGETATION NOTES:

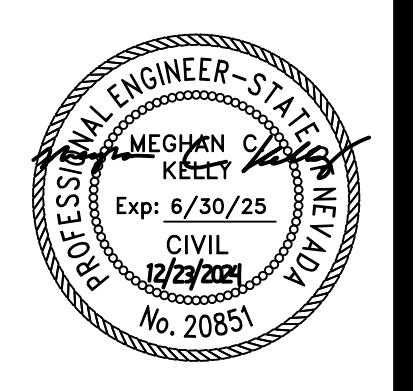
1. WORK SHALL BE CONDUCTED AND/OR OVERSEEN BY A LICENSED LANDSCAPE CONTRACTOR (C-10) IN THE STATE OF NEVADA AND WILL BE INSPECTED BY THE ENGINEER. THE CONTRACTOR SHALL PERFORM ALL REVEGETATION WORK AS SPECIFIED HEREIN AND IN ACCORDANCE WITH THE PROVISIONS OF THESE SPECIAL TECHNICAL PROVISIONS, THE PROJECT PLANS, AND THE STANDARD SPECIFICATIONS. THE REVEGETATION WORK SHALL CONSIST OF ALL SITE PREPARATION ASSOCIATED WITH THE REVEGETATION TREATMENTS; AND RECORD KEEPING.
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5. SOIL DISTURBANCE SHALL BE MINIMIZED AND LIMITED TO THOSE AREAS THAT REQUIRE TREATMENT. ALL EXISTING VEGETATION WITHIN THE PROJECT LIMITS NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED. DELINEATE PROJECT BOUNDARIES WITH FENCING PER THE REQUIREMENTS IN CONSTRUCTION LIMIT FENCING AND IN THESE SPECIAL TECHNICAL PROVISIONS. TRAFFIC OUTSIDE OF PROJECT AREA IS PROHIBITED. ANY EXISTING OR PREVIOUSLY INSTALLED VEGETATION DAMAGED SHALL BE REPLACED BY THE CONTRACTOR. AREAS TO RECEIVE REVEGETATION TREATMENTS SHALL INCLUDE ALL AREAS DISTURBED DURING CONSTRUCTION, AS INDICATED ON THE PROJECT PLANS AND AS DIRECTED BY THE ENGINEER.
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Seed Mix 1		
Species (Common Name)	Species (Botanical Name)	LBS per Acre
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Total PLS LBS/ACRE RATE		11.00



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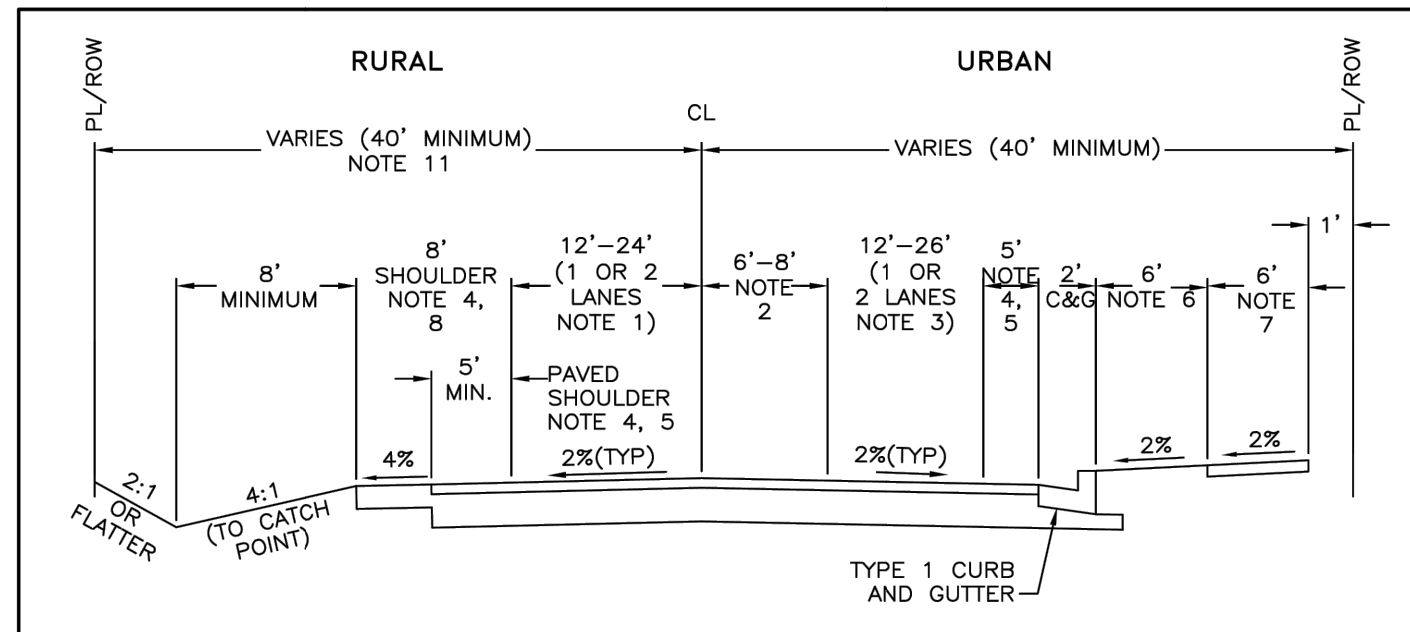
LANDSCAPE AND REVEGETATION
 PLAN "K" 26+00 TO "K" 33+50
 KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN MJEK
CHECKED MK
DATE 11/2024
SCALE AS SHOWN
PROJECT KAHLE DRIVE COMPLETE STREETS SHEET

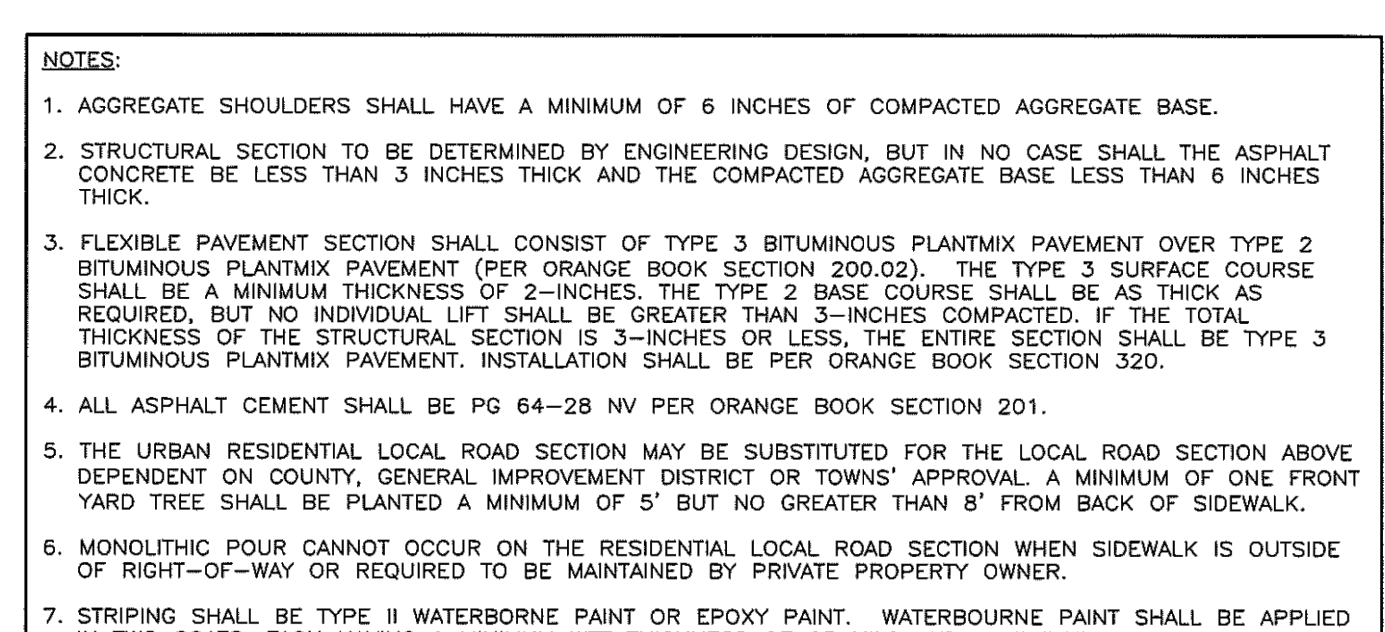


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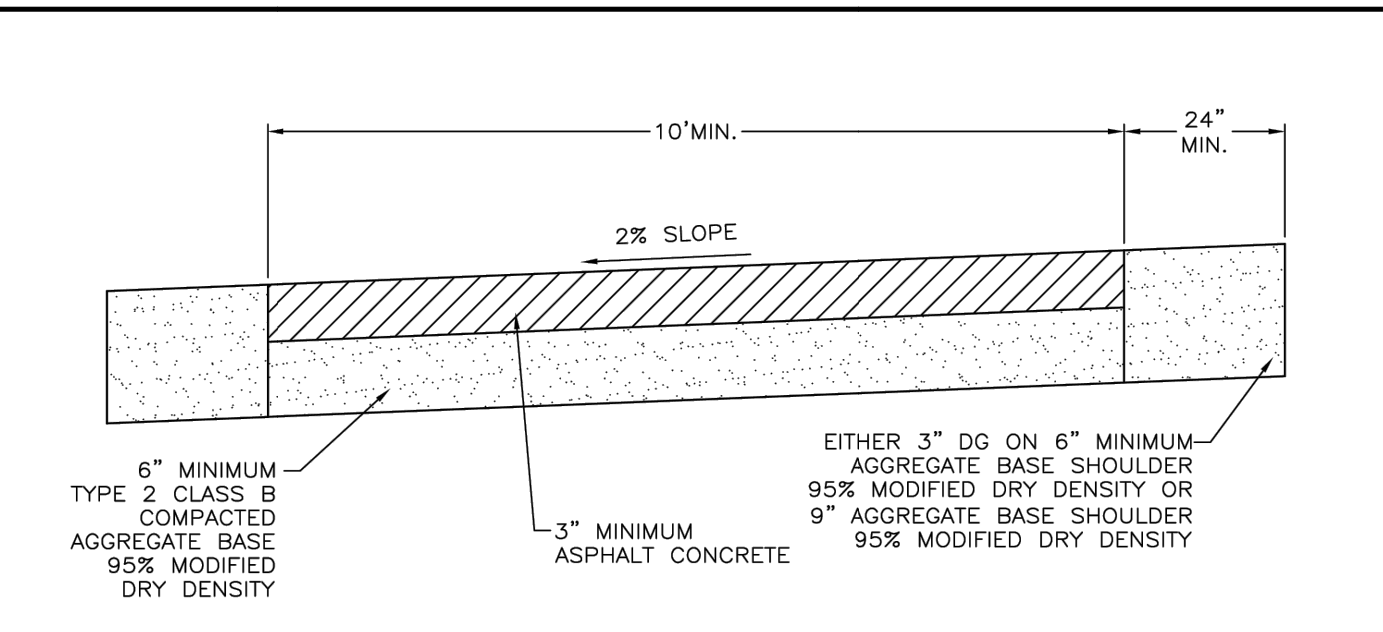
NOTES: 1. NUMBER OF LANES DETERMINED BY TRANSPORTATION ELEMENT OF THE DOUGLAS COUNTY MASTER PLAN. 2. USE 8 FEET AND A RAISED PCC MEDIAN CURB (SEE DETAIL A05-B) ON 4 LANE URBAN SECTIONS WHEN TURN LANE IS REQUIRED. USE 6 FEET FOR RURAL SECTION WHEN TURN LANE IS REQUIRED. 3. THE OUTSIDE LANE WIDTH SHALL BE 14 FEET FOR URBAN SECTIONS WHEN NO BIKE LANE IS REQUIRED. OUTSIDE LANE MAY BE 12 FEET FOR URBAN SECTIONS WHEN BIKE LANE IS PROVIDED. PARKING SHALL NOT BE ALLOWED ON STREET. 4. BIKE LANES SHALL BE PROVIDED IN CONFORMANCE WITH THE DOUGLAS COUNTY COMPREHENSIVE TRAIL PLAN. BIKE LANES IN RURAL AREAS SHALL BE 5 FEET WIDE AND CONSTRUCTED WITH THE SAME STRUCTURAL SECTION AS THE ROADWAY. WHERE THE BIKE LANE IS ADJACENT TO CURB AND GUTTER, THE BIKE LANE SHALL HAVE A MINIMUM 4 FOOT WIDTH MEASURED FROM THE TRAFFIC LANE TO THE LONGITUDINAL JOINT BETWEEN THE GUTTER PAN AND ROADWAY SURFACE. 5. BIKE LANES AND BIKE ROUTES SHALL BE SIGNED AND STRIPED IN CONFORMANCE WITH THE AASHTO "GUIDE FOR THE DEVELOPMENT OF BICYCLE CONTROL FACILITIES" AND THE FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". 6. 6 FOOT MINIMUM LANDSCAPE STRIP. 7. SIDEWALKS SHALL HAVE A MINIMUM WIDTH OF 6 FEET. 8. PAVED SHOULDERS SHALL HAVE THE SAME STRUCTURAL SECTION AS THE ROADWAY. AGGREGATE SHOULDERS SHALL HAVE A MINIMUM OF 6 INCHES OF COMPACTED AGGREGATE BASE. 9. STRUCTURAL SECTION TO BE DETERMINED BY ENGINEERING DESIGN, BUT IN NO CASE SHALL THE ASPHALT CONCRETE BE LESS THAN 4 INCHES THICK AND THE AGGREGATE BASE LESS THAN 8 INCHES THICK. 10. TYPE 3 PLANTMIX BITUMINOUS PAVEMENT WITH PG 64-28 NV SHALL BE USED ON THE TOP PAVEMENT LIFT. MINIMUM THICKNESS 2-INCHES. TYPE 2 OR TYPE 3 PLANTMIX BITUMINOUS PAVEMENT WITH PG 64-28 NV SHALL BE USED ON LOWER PAVEMENT LIFTS. MINIMUM THICKNESS 2-INCHES. 11. PERMANENT SLOPE EASEMENTS MAY BE REQUIRED TO ACCOMMODATE CONSTRUCTION OF THE ROADWAY AND DRAINAGE FACILITIES. 12. STRIPING SHALL BE TYPE II WATERBORNE PAINT OR EPOXY PAINT. WATERBORNE PAINT SHALL BE APPLIED IN TWO COATS, EACH HAVING A MINIMUM WET THICKNESS OF 25 MILS AND A MINIMUM DRY THICKNESS OF 15 MILS MEASURED WITHOUT GLASS BEADS. BOTH COATS SHALL INCLUDE GLASS BEADS AT THE RATE OF 9 LBS/GALLON. EPOXY BASED PAINT SHALL BE APPLIED IN A SINGLE COAT HAVING A MINIMUM DRY THICKNESS OF 20 MILS MEASURED WITHOUT GLASS BEADS. THE EPOXY PAINT SHALL INCLUDE GLASS BEADS AT THE RATE OF 18 LBS/GALLON.

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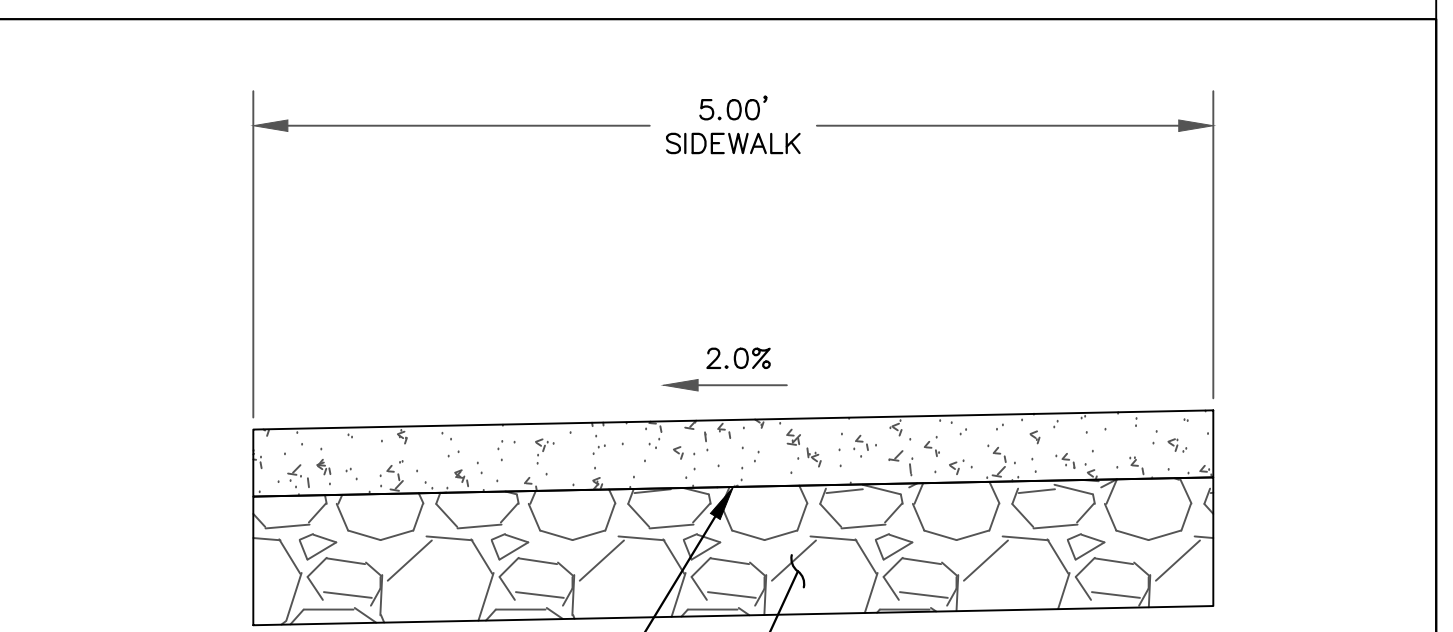
NOTES: 1. AGGREGATE SHOULDERS SHALL HAVE A MINIMUM OF 6 INCHES OF COMPACTED AGGREGATE BASE. 2. STRUCTURAL SECTION TO BE DETERMINED BY ENGINEERING DESIGN, BUT IN NO CASE SHALL THE ASPHALT CONCRETE BE LESS THAN 3 INCHES THICK AND THE COMPACTED AGGREGATE BASE LESS THAN 6 INCHES THICK. 3. FLEXIBLE PAVEMENT SECTION SHALL CONSIST OF TYPE 3 BITUMINOUS PLANTMIX PAVEMENT OVER TYPE 2 BITUMINOUS PLANTMIX PAVEMENT (PER ORANGE BOOK SECTION 200.02). THE TYPE 3 SURFACE COURSE SHALL BE A MINIMUM THICKNESS OF 2-INCHES. THE TYPE 2 BASE COURSE SHALL BE AS THICK AS REQUIRED, BUT NO INDIVIDUAL LIFT SHALL BE GREATER THAN 3-INCHES COMPACTED. IF THE TOTAL THICKNESS OF THE STRUCTURAL SECTION IS 3-INCHES OR LESS, THE ENTIRE SECTION SHALL BE TYPE 3 BITUMINOUS PLANTMIX PAVEMENT. INSTALLATION SHALL BE PER ORANGE BOOK SECTION 320. 4. ALL ASPHALT CEMENT SHALL BE PG 64-28 NV PER ORANGE BOOK SECTION 201. 5. THE URBAN RESIDENTIAL LOCAL ROAD SECTION MAY BE SUBSTITUTED FOR THE LOCAL ROAD SECTION ABOVE DEPENDENT ON COUNTY, GENERAL IMPROVEMENT DISTRICT OR TOWNSHIP APPROVAL. A MINIMUM OF ONE FRONT YARD TREE SHALL BE PLANTED A MINIMUM OF 5' BUT NO GREATER THAN 8' FROM BACK OF SIDEWALK. 6. MONOLITHIC POUR CANNOT OCCUR ON THE RESIDENTIAL LOCAL ROAD SECTION WHEN SIDEWALK IS OUTSIDE OF RIGHT-OF-WAY OR REQUIRED TO BE MAINTAINED BY PRIVATE PROPERTY OWNER. 7. STRIPING SHALL BE TYPE II WATERBORNE PAINT OR EPOXY PAINT. WATERBORNE PAINT SHALL BE APPLIED IN TWO COATS, EACH HAVING A MINIMUM WET THICKNESS OF 25 MILS AND A MINIMUM DRY THICKNESS OF 15 MILS MEASURED WITHOUT GLASS BEADS. BOTH COATS SHALL INCLUDE GLASS BEADS AT THE RATE OF 9 LBS/GALLON. EPOXY BASED PAINT SHALL BE APPLIED IN A SINGLE COAT HAVING A MINIMUM DRY THICKNESS OF 20 MILS MEASURED WITHOUT GLASS BEADS. THE EPOXY PAINT SHALL INCLUDE GLASS BEADS AT THE RATE OF 18 LBS/GALLON.

Table with 4 columns: NO., REVISION, DATE, STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION. Section: DOUGLAS COUNTY, DATE: DEC 2018, DWG: A02.



NOTES: 1. TYPE 3 PLANTMIX BITUMINOUS MIX WITH PG 64-28 NV ASPHALT CEMENT SHALL BE USED. 2. PREPARE SUBGRADE IN CONFORMANCE WITH SECTION 302 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 3. BICYCLE FACILITIES SHALL BE DESIGNED IN CONFORMANCE WITH CURRENT AASHTO STANDARDS.

Table with 4 columns: NO., REVISION, DATE, STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION. Section: DOUGLAS COUNTY, DATE: JULY 2017, DWG: A04.



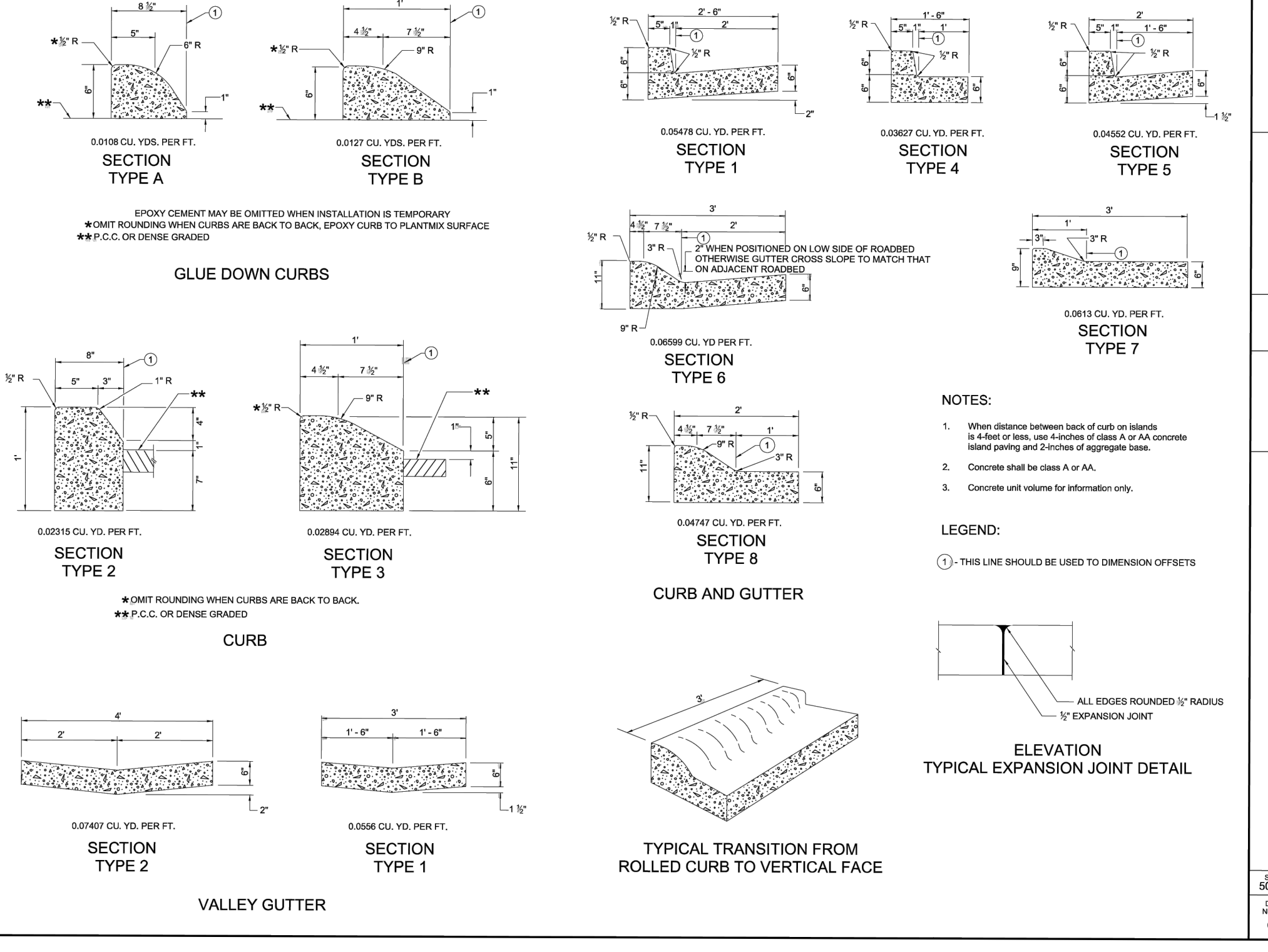
SIDEWALK NOTES: 1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS. 2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED EVERY 10 FEET. ON SIDEWALKS WIDER THAN 5 FEET, THE JOINTING PATTERN SHALL BE 0.8 TO 1.2 TIMES THE WIDTH OF THE SIDEWALK, NOT TO EXCEED 8 FEET. THE JOINTS SHALL PENETRATE TO A DEPTH OF 2 INCHES AND BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION; SEE "PCC JOINTING" DETAIL A11. 3. EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED IN SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 4. TYPE 2 CLASS B AGGREGATE BASE SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 5. CONCRETE SIDEWALK SUBJECT TO COMMERCIAL AND INDUSTRIAL DRIVEWAY TRAFFIC SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES. 6. NO NEW OBSTRUCTIONS, SUCH AS UTILITY POLES, SIGNAL POLES AND CONTROLS, WATER METER BOXES, PULL BOXES, ETC. ARE ALLOWED WITHIN SIDEWALKS. 7. LOCATE FLAT OBSTRUCTIONS TO MAINTAIN A 4-FOOT MINIMUM PEDESTRIAN ACCESS ROUTE. IS A 4-FOOT PEDESTRIAN ACCESS ROUTE CAN NOT BE MAINTAINED, USE SKID RESISTANT COVERS.

1 ARTERIAL/COLLECTOR TYPICAL ROAD SECTION D1 NOT TO SCALE

2 LOCAL ROAD SECTION D1 NOT TO SCALE

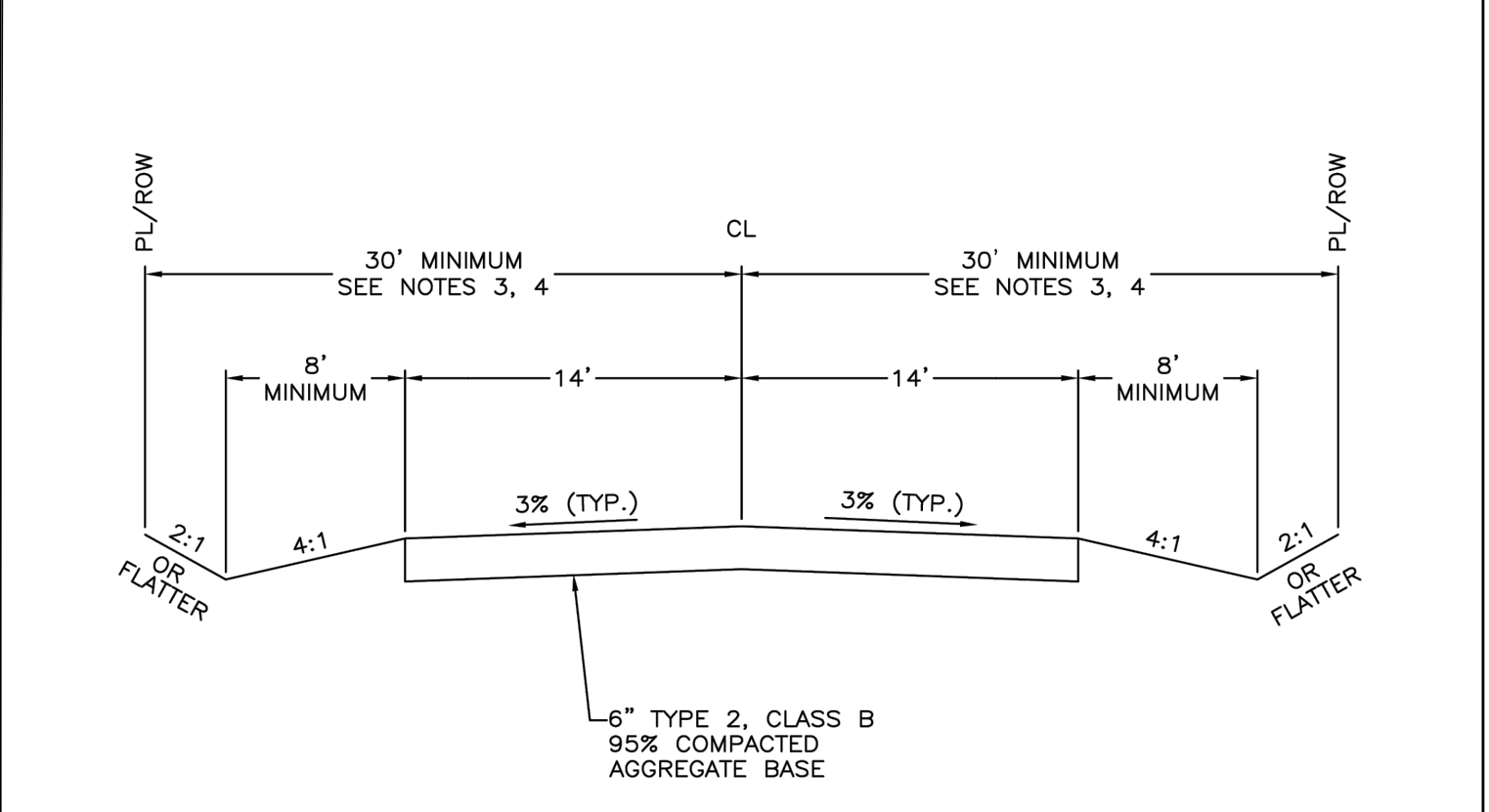
3 PEDESTRIAN PATH/BIKEWAY D1 NOT TO SCALE

4 TYPICAL SIDEWALK DETAIL D1 NOT TO SCALE



6 NDOT CURB & GUTTER DETAILS D1 NOT TO SCALE

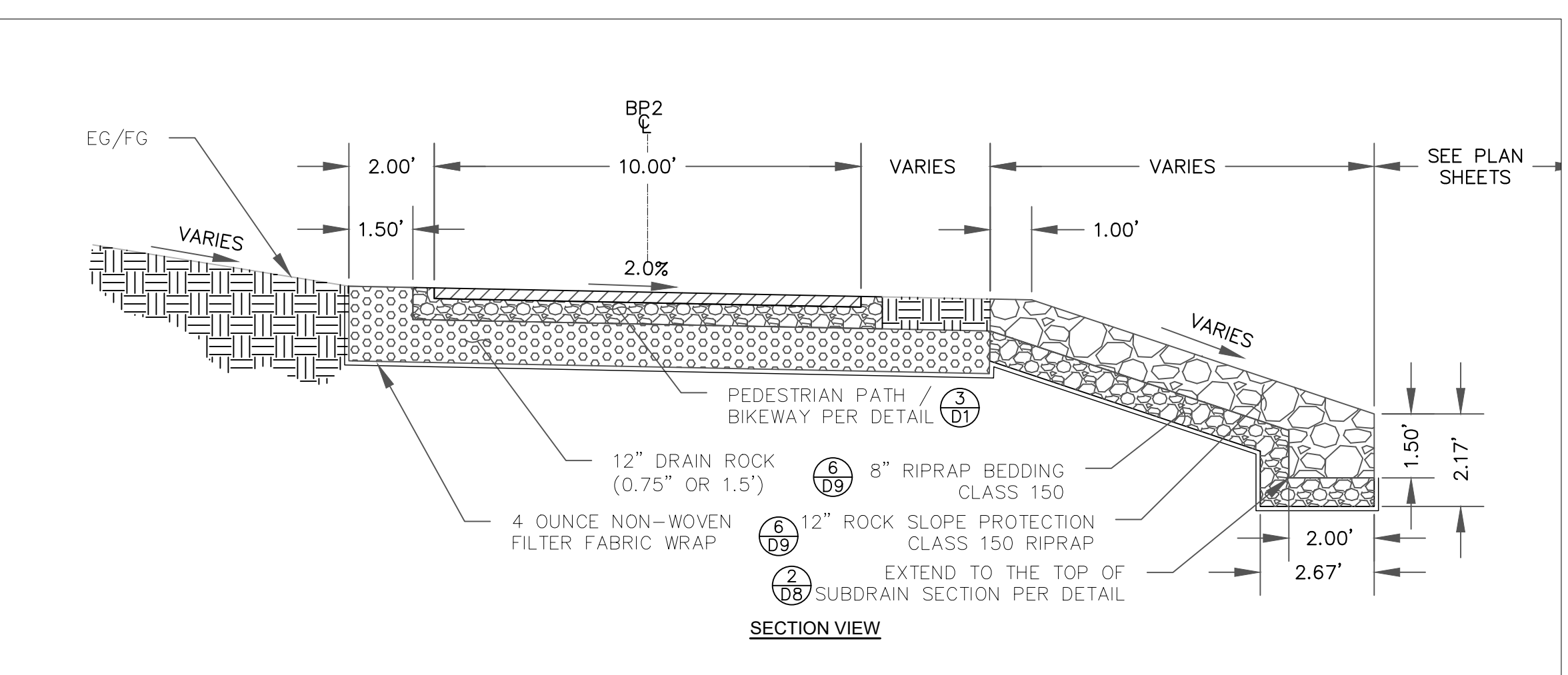
NOTES: 1. ALL CURB AND GUTTER SHALL BE NDOT TYPE 6 UNLESS OTHERWISE NOTED



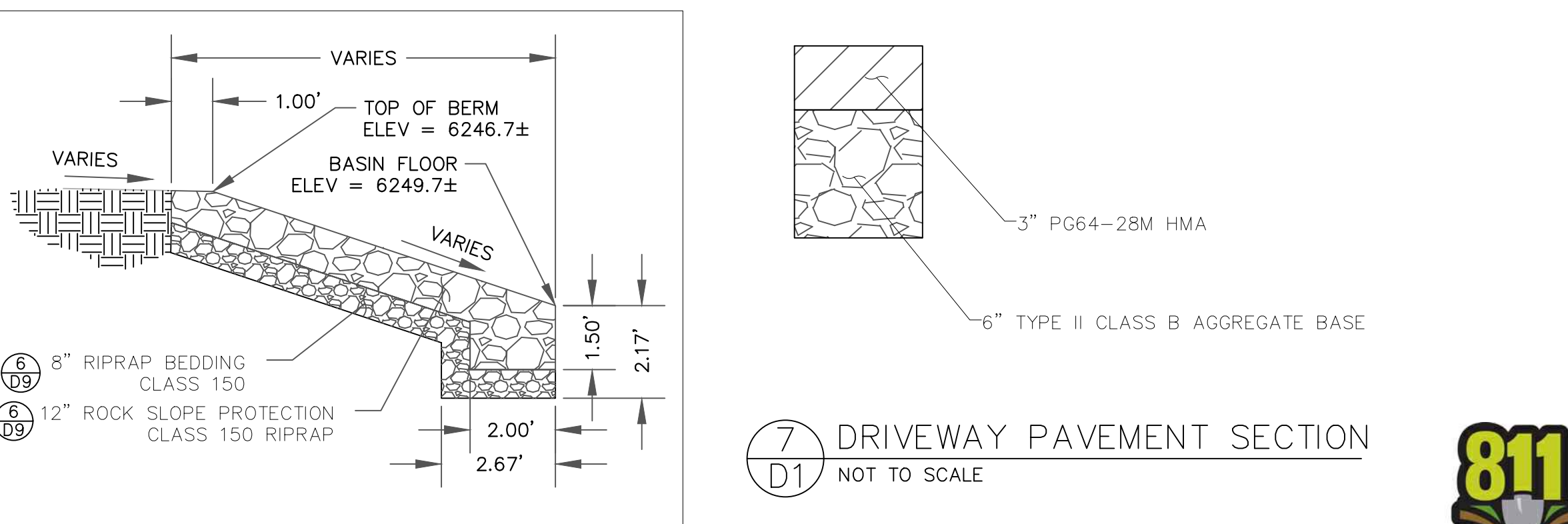
NOTES: 1. UNPAVED ROAD SECTION ALLOWED ONLY BY APPROVED VARIANCE OR PARCEL MAP WAIVER (SEE DCC 20.712.040). 2. STRUCTURAL SECTION TO BE DETERMINED BY ENGINEERING DESIGN, BUT IN NO CASE SHALL THE AGGREGATE BASE BE LESS THAN 6 INCHES THICK. 3. SITE SPECIFIC TRAFFIC DATA OR PROJECTIONS SHALL BE USED TO DETERMINE THE STRUCTURAL SECTION, BUT ALL STRUCTURAL SECTIONS MUST SUPPORT A TANDEM LOAD OF 25 TONS. 4. ROADS PROPOSED IN SPECIAL FLOOD HAZARD AREAS SHALL COMPLY WITH CHAPTER 20.50 OF TITLE 20.

Table with 4 columns: NO., REVISION, DATE, STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION. Section: DOUGLAS COUNTY, DATE: DEC. 2018, DWG: A03-A.

8 UNPAVED DRIVEWAY D1 NOT TO SCALE



5 DRAIN ROCK CROSS DRAIN & ROCK SLOPE PROTECTION D1 NOT TO SCALE



7 DRIVEWAY PAVEMENT SECTION D1 NOT TO SCALE

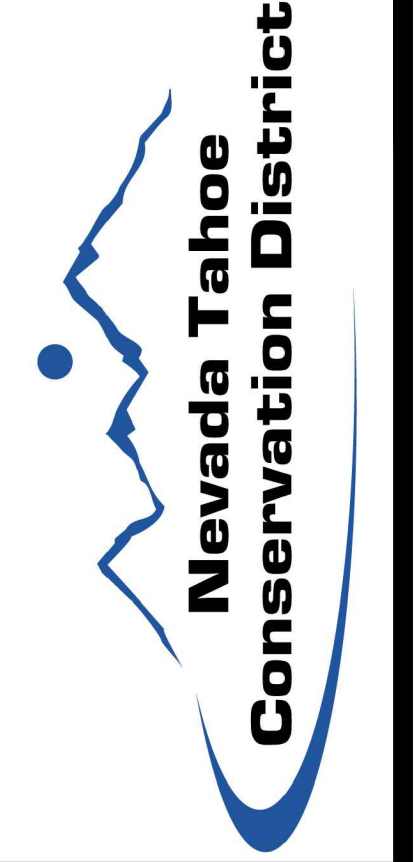


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DETAILS - CONSTRUCTION KAHLE DRIVE COMPLETE STREETS PROJECT

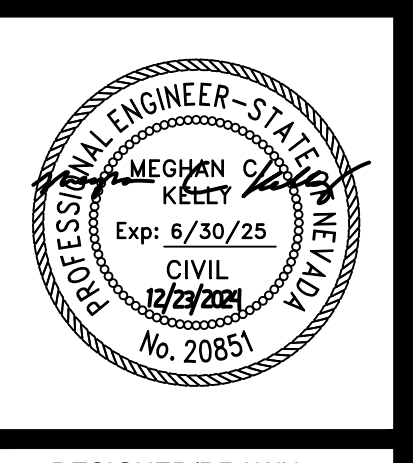
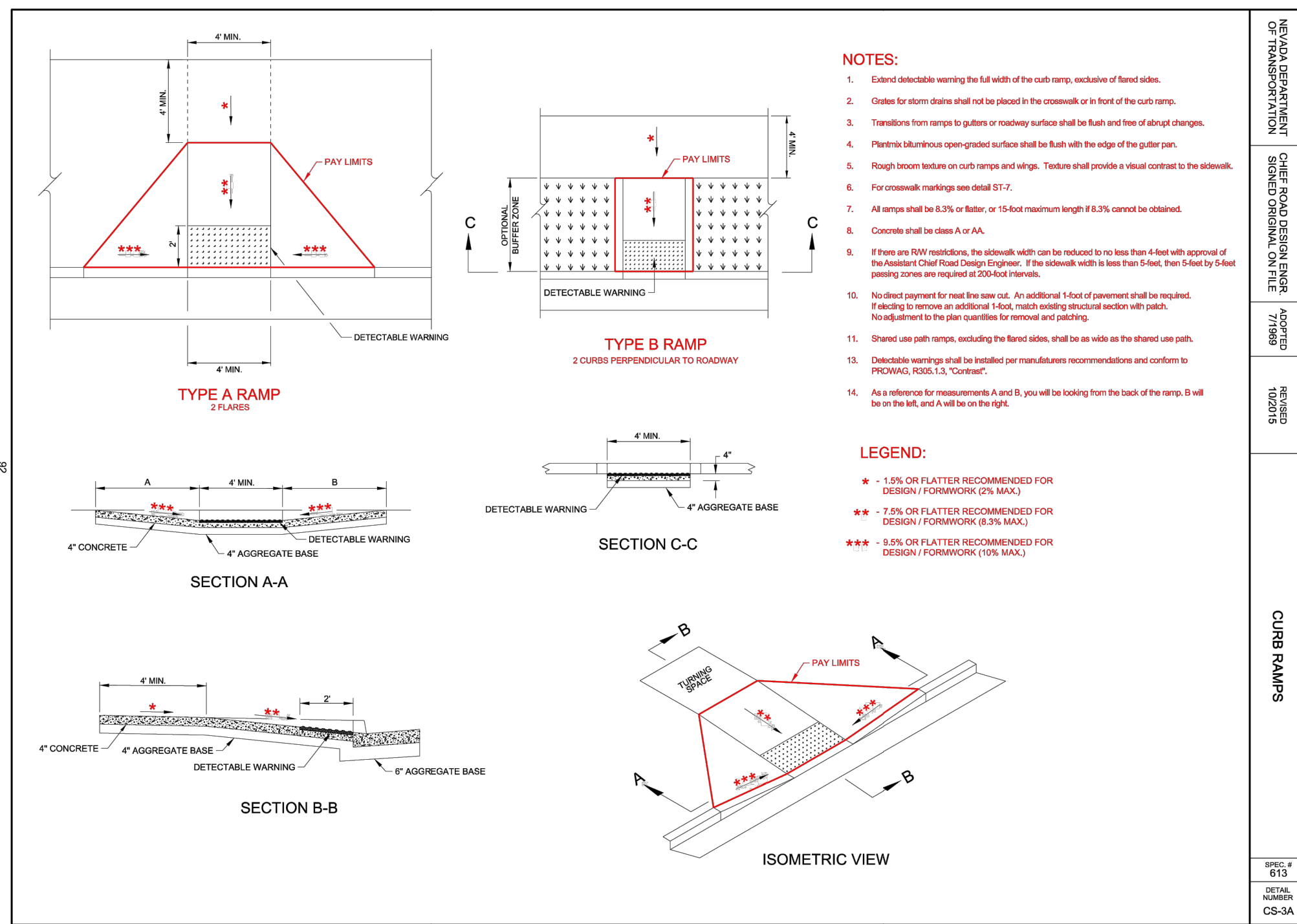


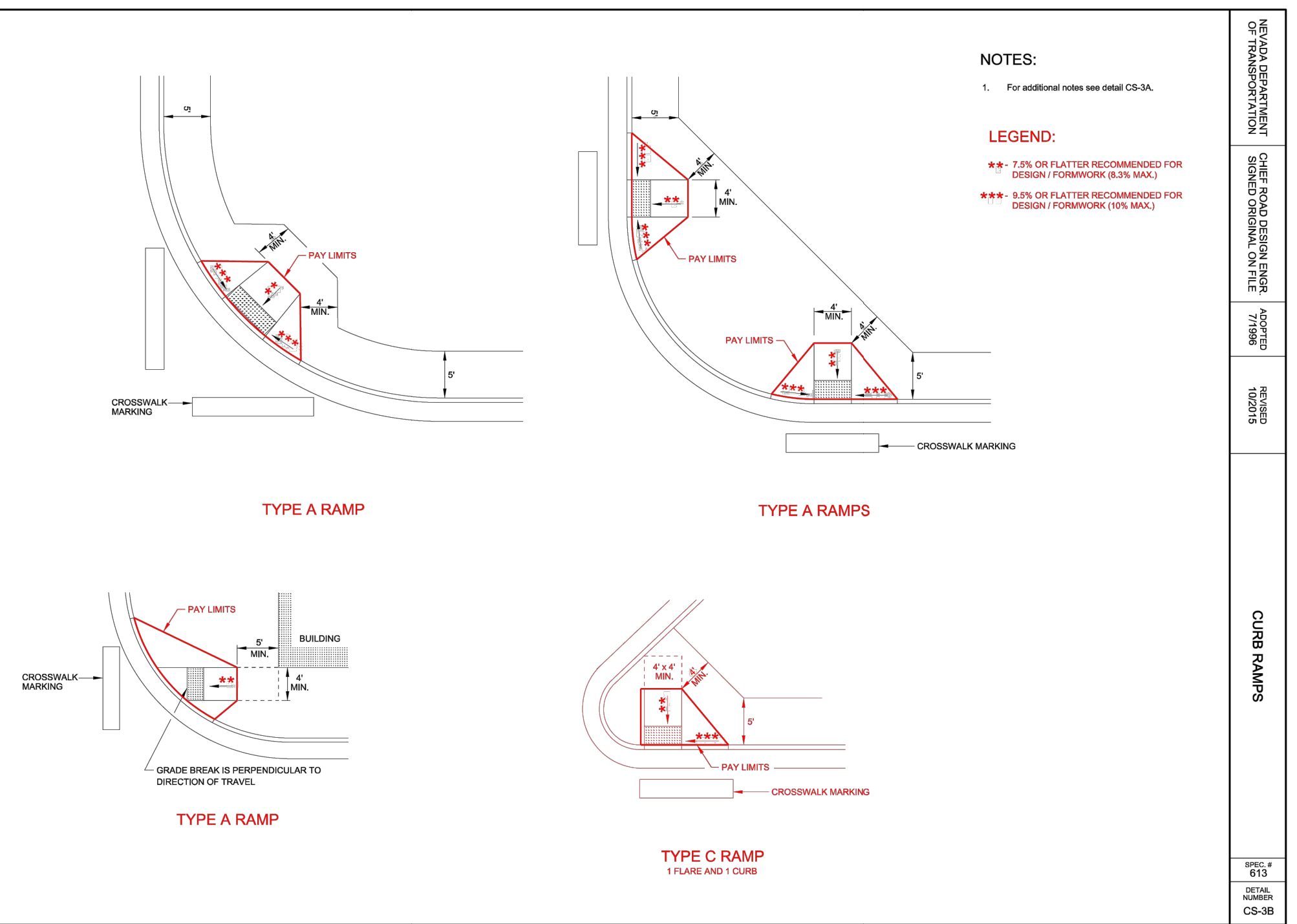
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- NOTES:**
- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY DOUGLAS COUNTY.
 - PORTLAND CEMENT CONCRETE SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ± 1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SECTION 337 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC., ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY DOUGLAS COUNTY. A MINIMUM LANDING OF 5 FEET x 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE. A MINIMUM OF 4 FEET CLEAR MAY BE USED UPON APPROVAL BY DOUGLAS COUNTY WHERE DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE. FOR NEW CONSTRUCTION ALL OBSTRUCTIONS SHALL BE LOCATED OUTSIDE OF THE RAMP.
 - WHEN A CROSSWALK IS SERVICED BY RAMP, LANDINGS SHALL BE CONTAINED WITHIN THE CROSSWALK AREA.
 - EXISTING CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE JOINT.
 - PLANTMIX BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP. GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING.
 - ALL AGGREGATE BASE SHALL BE TYPE 2 CLASS B AND SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.
 - FOR RADIAL INSTALLATIONS WITH OR WITHOUT 6 FOOT MINIMUM LANDSCAPE STRIP, USE NDOT DETAIL R-5.2.1 TYPE A.
 - ALL CURB RAMPS AND SIDEWALKS SHALL COMPLY WITH CURRENT ADA AND PROWAG STANDARDS.
 - ALL CURB RETURN RAMPS SHALL BE PER CURRENT NDOT STANDARDS (R-5.2.1 AND R-5.2.2 AT TIME OF CURRENT PUBLICATION, ATTACHED FOR REFERENCE).



2 NDOT CURB RAMPS DETAIL A
D2 NOT TO SCALE

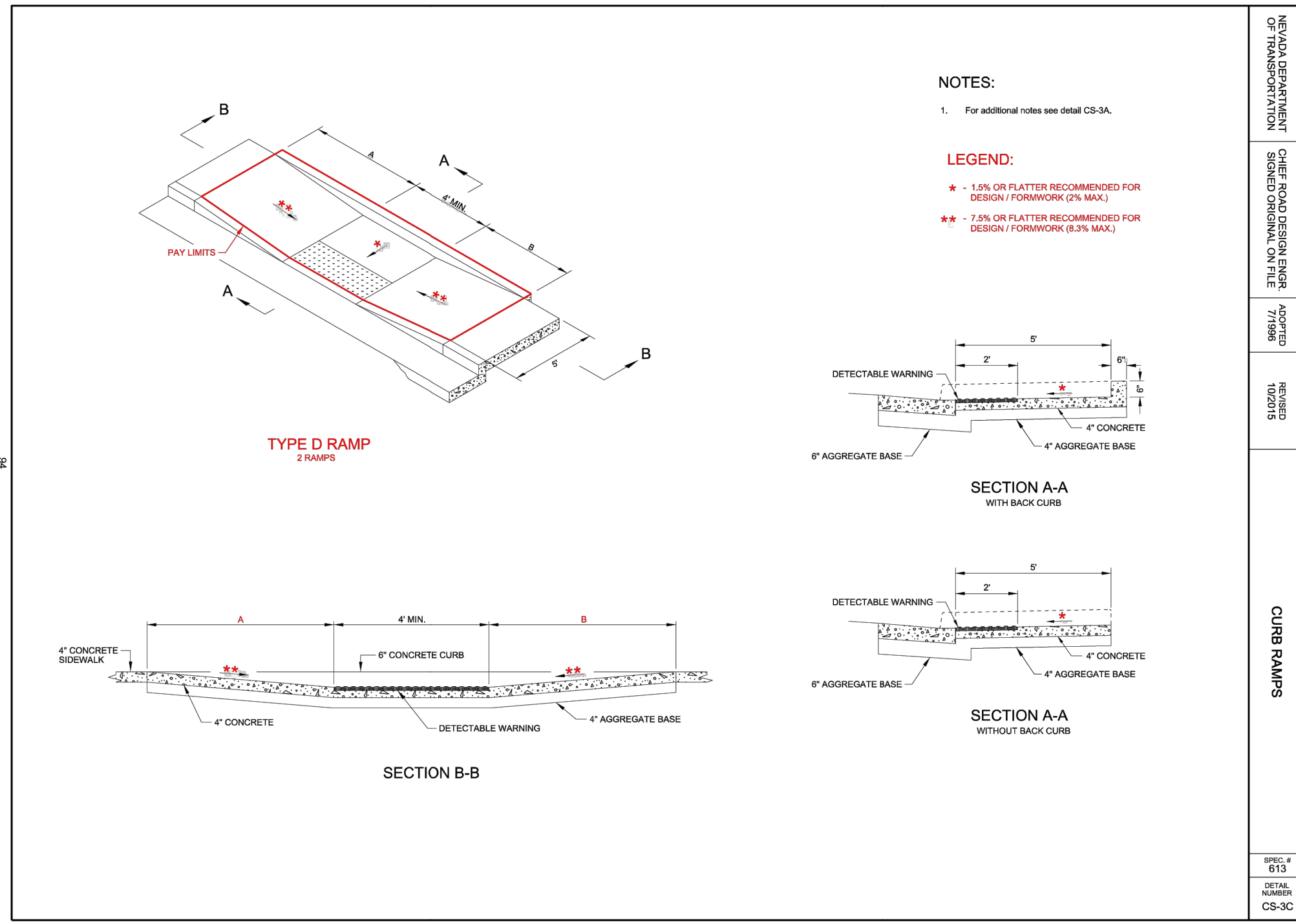


3 NDOT CURB RAMPS DETAIL B
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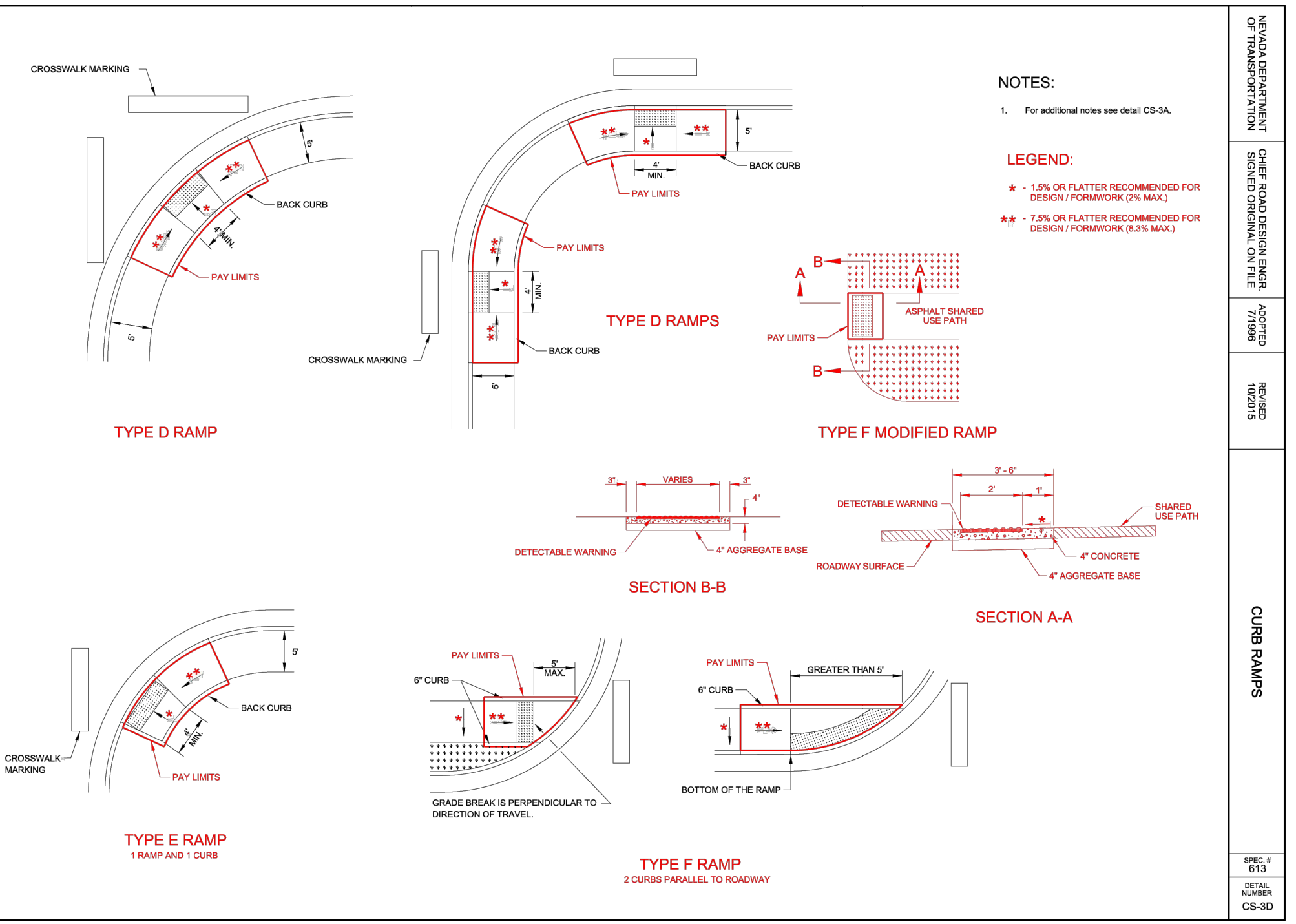
1 CURB RAMPS GENERAL NOTES
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NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			CURB RAMP GENERAL NOTES	DATE: JULY 2017 DWG: A07-E

- NOTES:**
- RATIO OF DEPTH TO WIDTH OF JOINT SEALANT SHOULD BE 1:1. INITIAL 1/8-INCH WEAK JOINT SAW CUT TO BE DONE WITHIN SPECIFIED TIME LIMIT. RESERVOIR CUT MAY BE DONE AT A LATER TIME.
 - EXPANSION JOINT FILLER MATERIAL SHALL BE 1/2-INCH BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER ASTM D-1751.



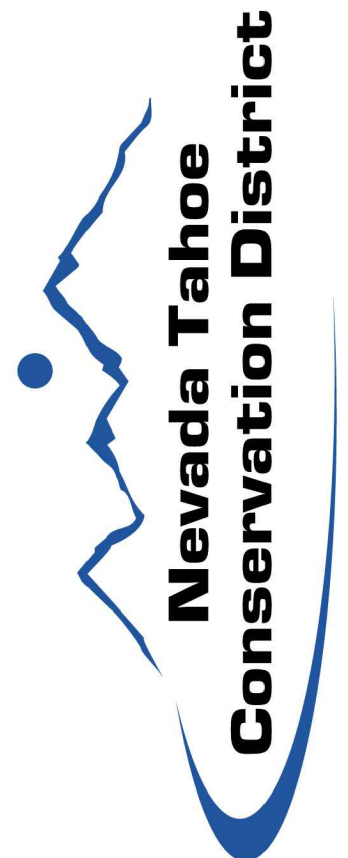
5 NDOT CURB RAMPS DETAIL C
D2 NOT TO SCALE



6 NDOT CURB RAMPS DETAIL D
D2 NOT TO SCALE

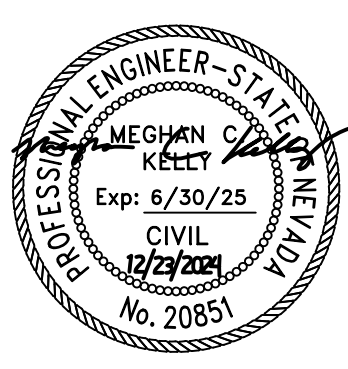
4 PCC JOINTING
D2 NOT TO SCALE

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			PCC JOINTING	DATE: JULY 2017 DWG: A11



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X	XX/XX/XX	XXX	DESCRIPTION

DETAILS - CONSTRUCTION
KAHLE DRIVE COMPLETE STREETS PROJECT



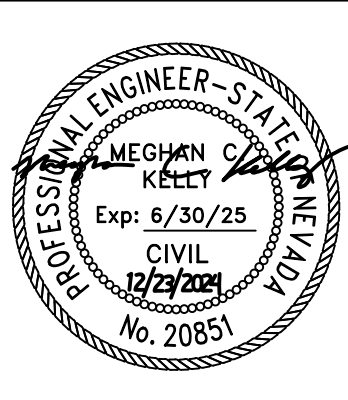
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PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



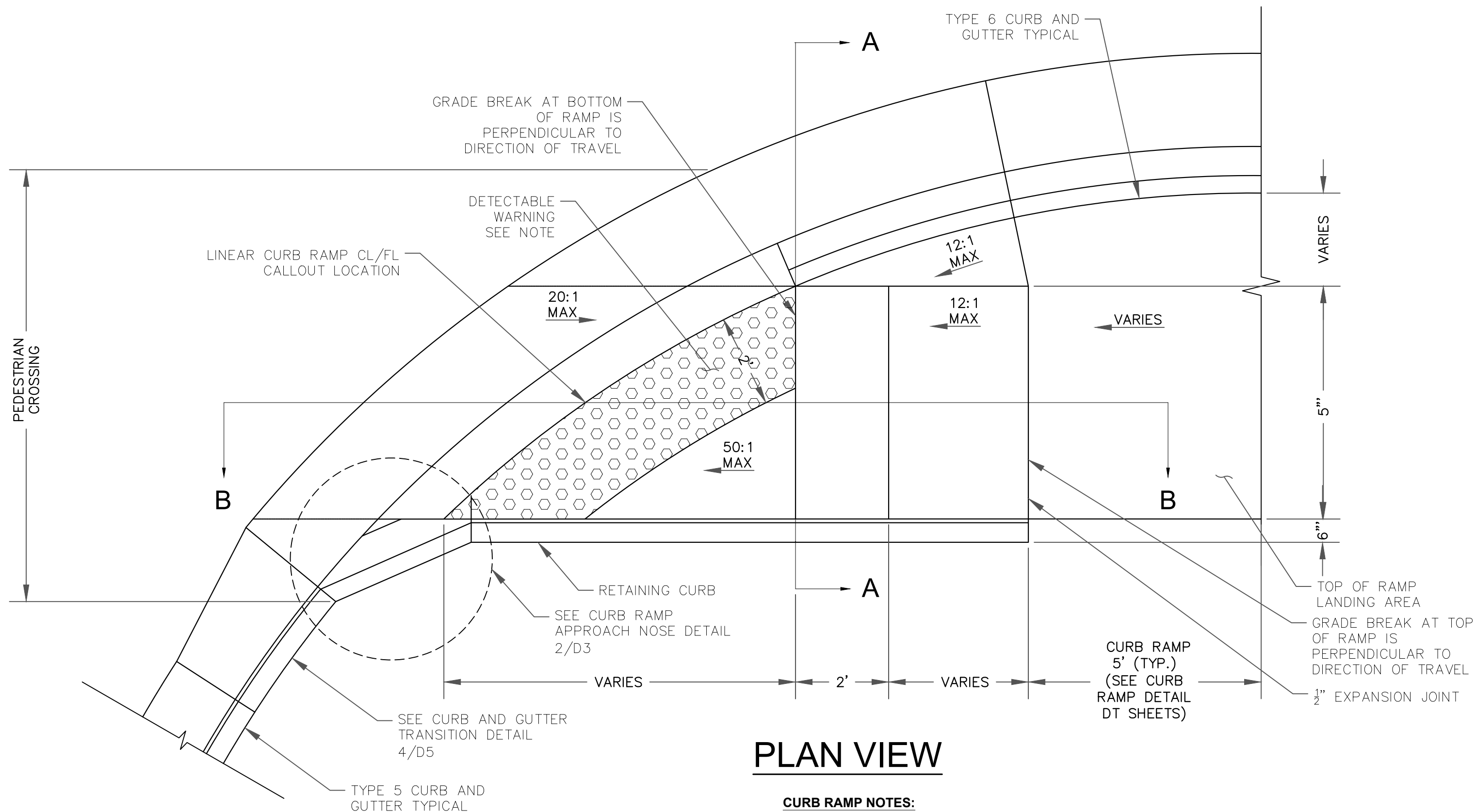
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NO.	DESCRIPTION

DETAILS - CONSTRUCTION
KAHLE DRIVE COMPLETE STREETS PROJECT

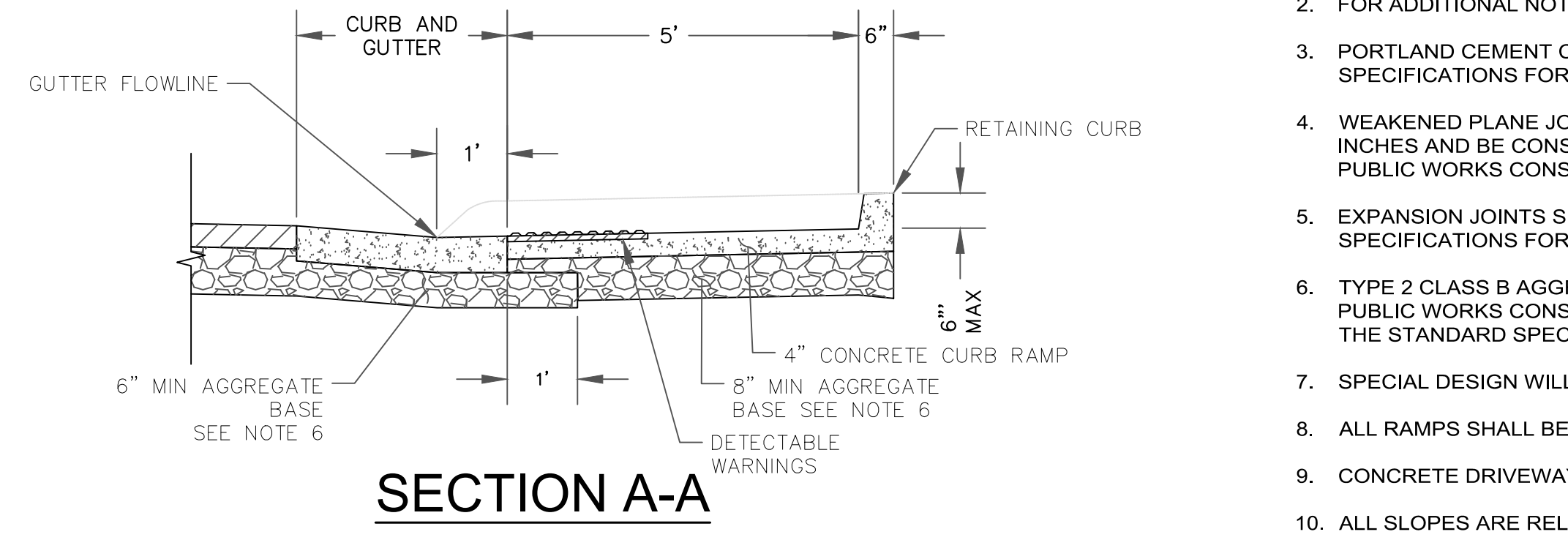


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SHEET	

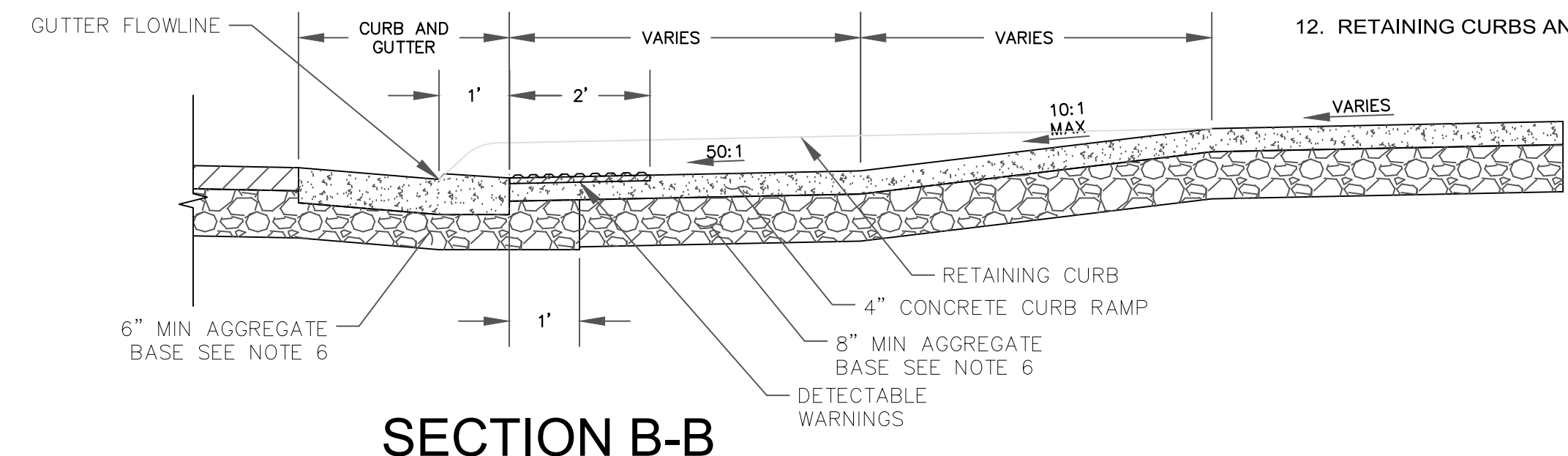


PLAN VIEW

- CURB RAMP NOTES:**
- FOR CURB RAMP GENERAL NOTES SEE 1/D2.
1. ALL POSTS SHALL BE SET IN CLASS A OR CLASS AA CONCRETE.
 2. FOR ADDITIONAL NOTES SEE DETAIL A07-E.
 3. PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
 4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED EVERY 5 FEET. THE JOINTS SHALL PENETRATE TO A DEPTH OF 2 INCHES AND BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 5. EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED IN SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 6. TYPE 2 CLASS B AGGREGATE BASE SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OR THE PROJECT SPECIFICATIONS.
 7. SPECIAL DESIGN WILL BE REQUIRED TO ENSURE ADA COMPLIANCE IN THE CASE OF EXISTING ATTACHED SIDEWALK.
 8. ALL RAMP SHALL BE 12:1 OR FLATTER.
 9. CONCRETE DRIVEWAY CAN BE POURED MONOLITHICALLY WITH CURB AND GUTTER.
 10. ALL SLOPES ARE RELATIVE TO NORMAL.
 11. LENGTH VARIES ACCORDING TO CURB AND GUTTER.
 12. RETAINING CURBS AND ACQUISITION OF CONSTRUCTION EASEMENT MAY BE NECESSARY.

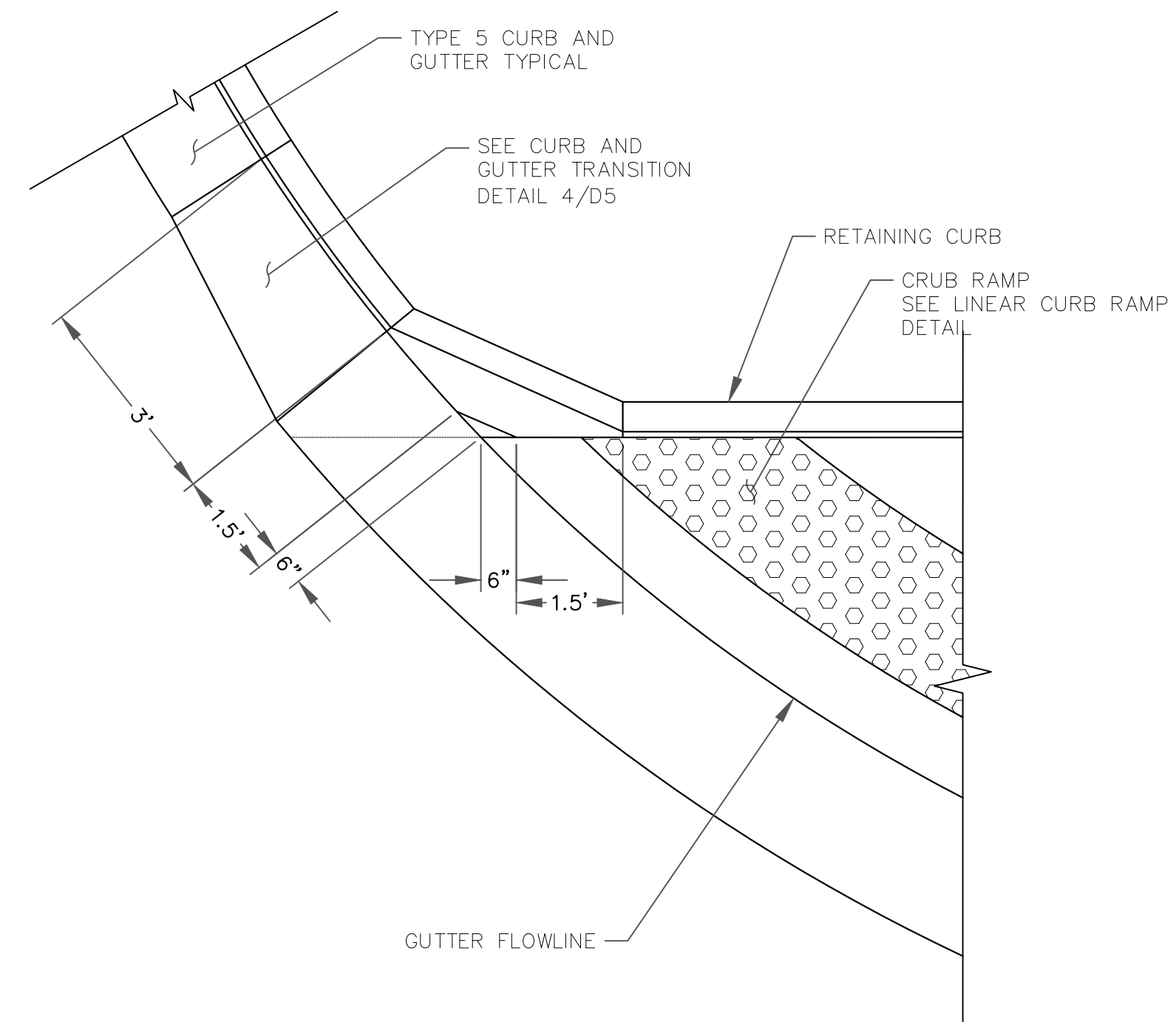


SECTION A-A

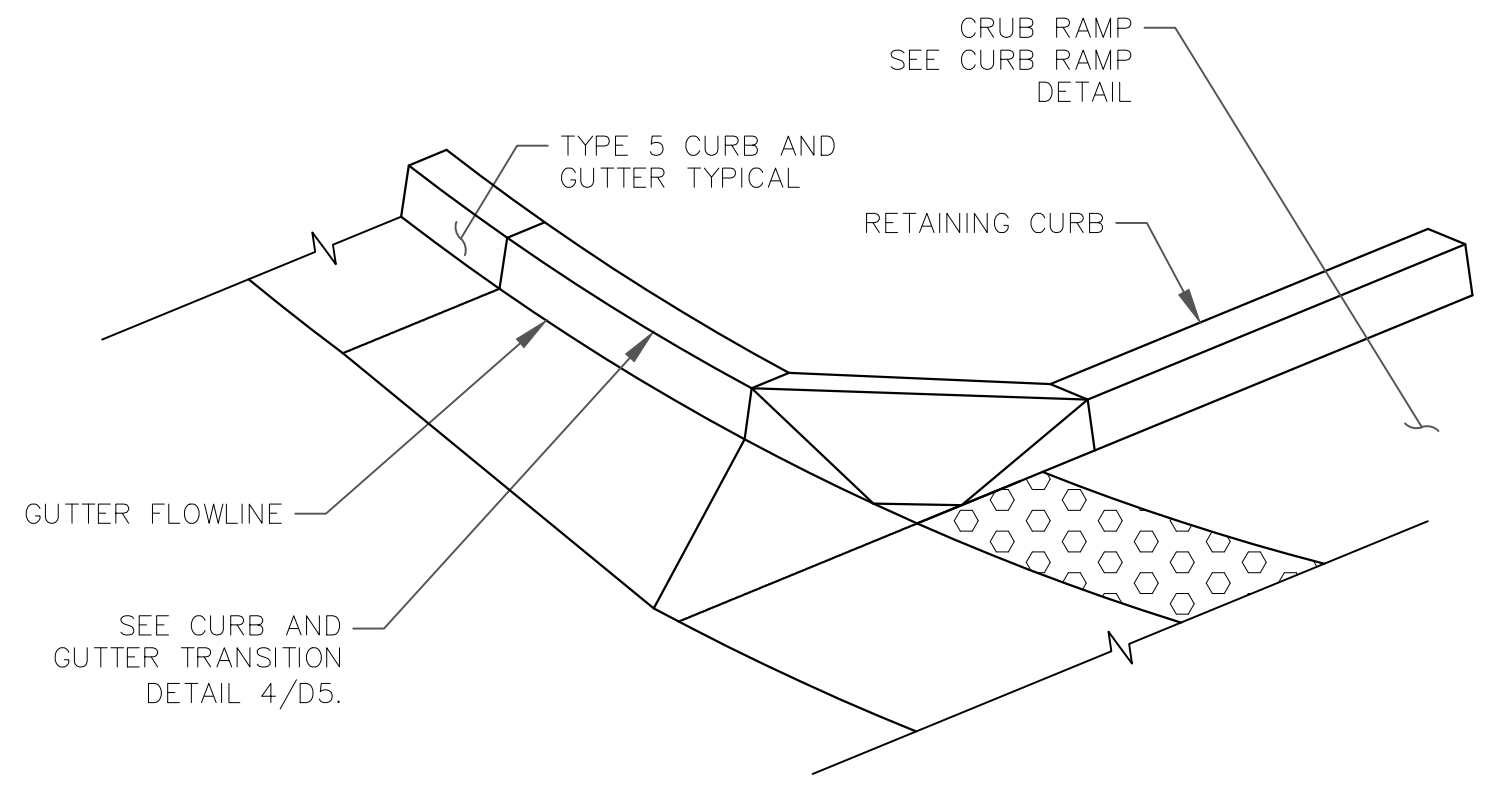


SECTION B-B

1 LINEAR CURB RAMP DETAIL
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PLAN VIEW

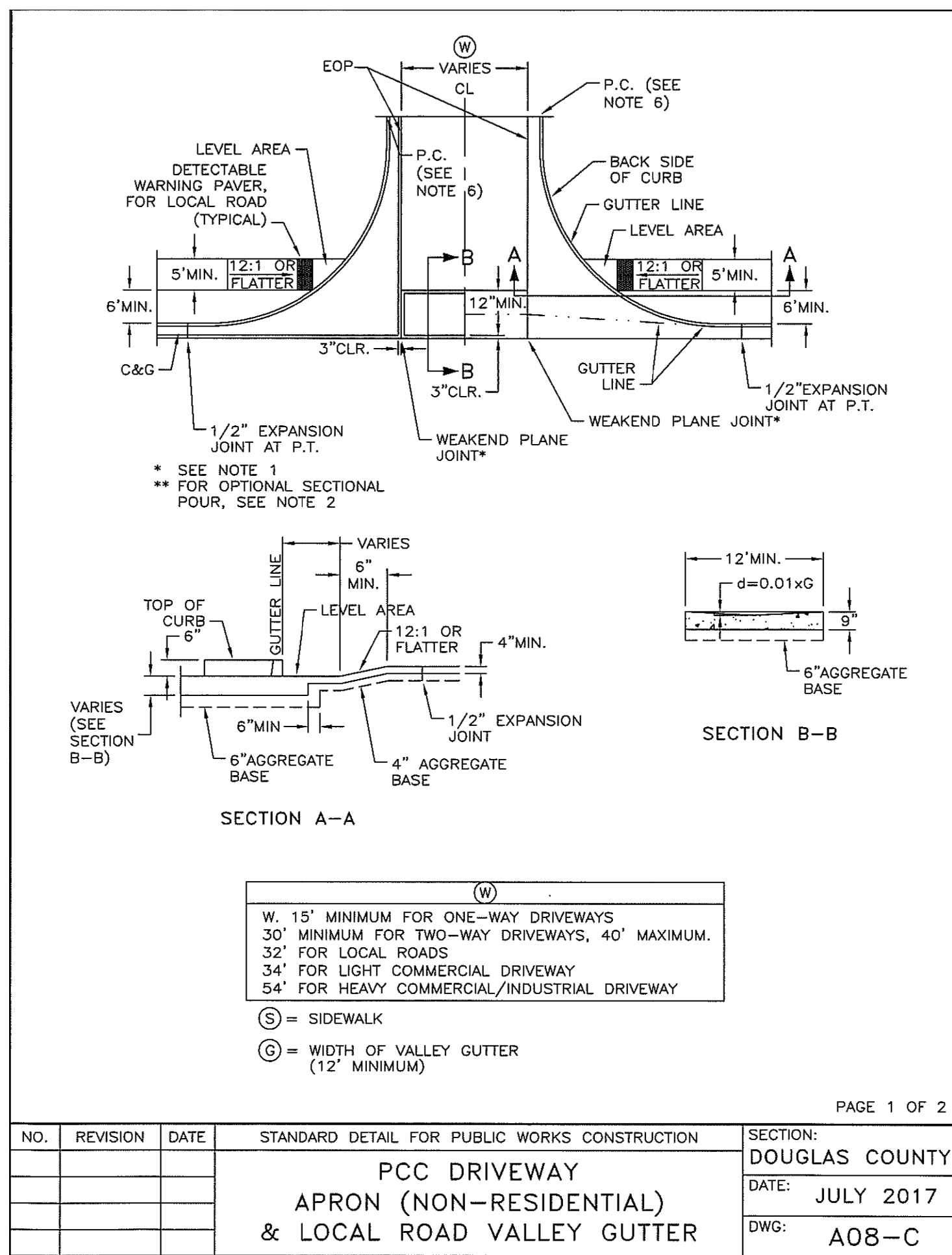


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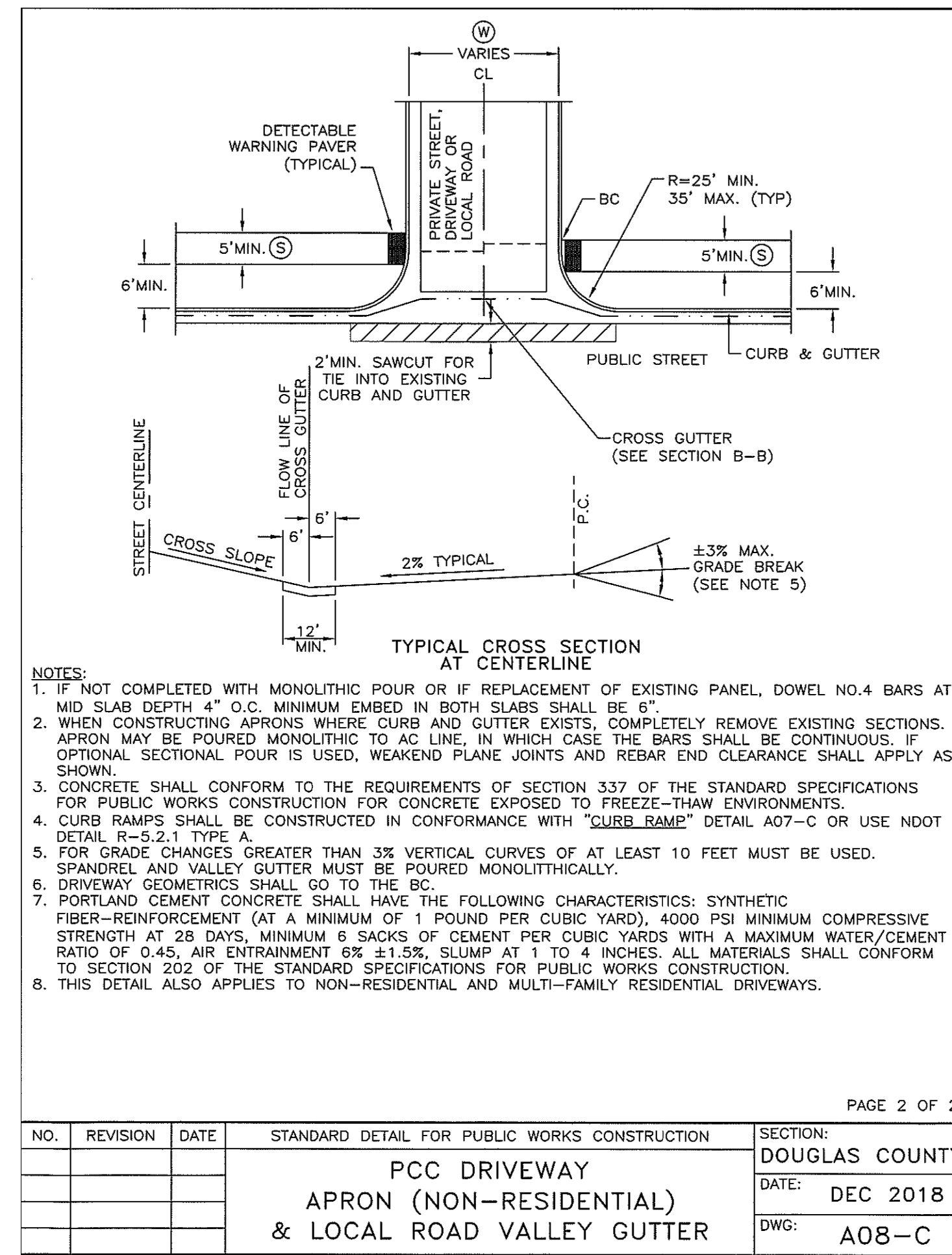
2 CURB RAMP APPROACH NOSE DETAIL
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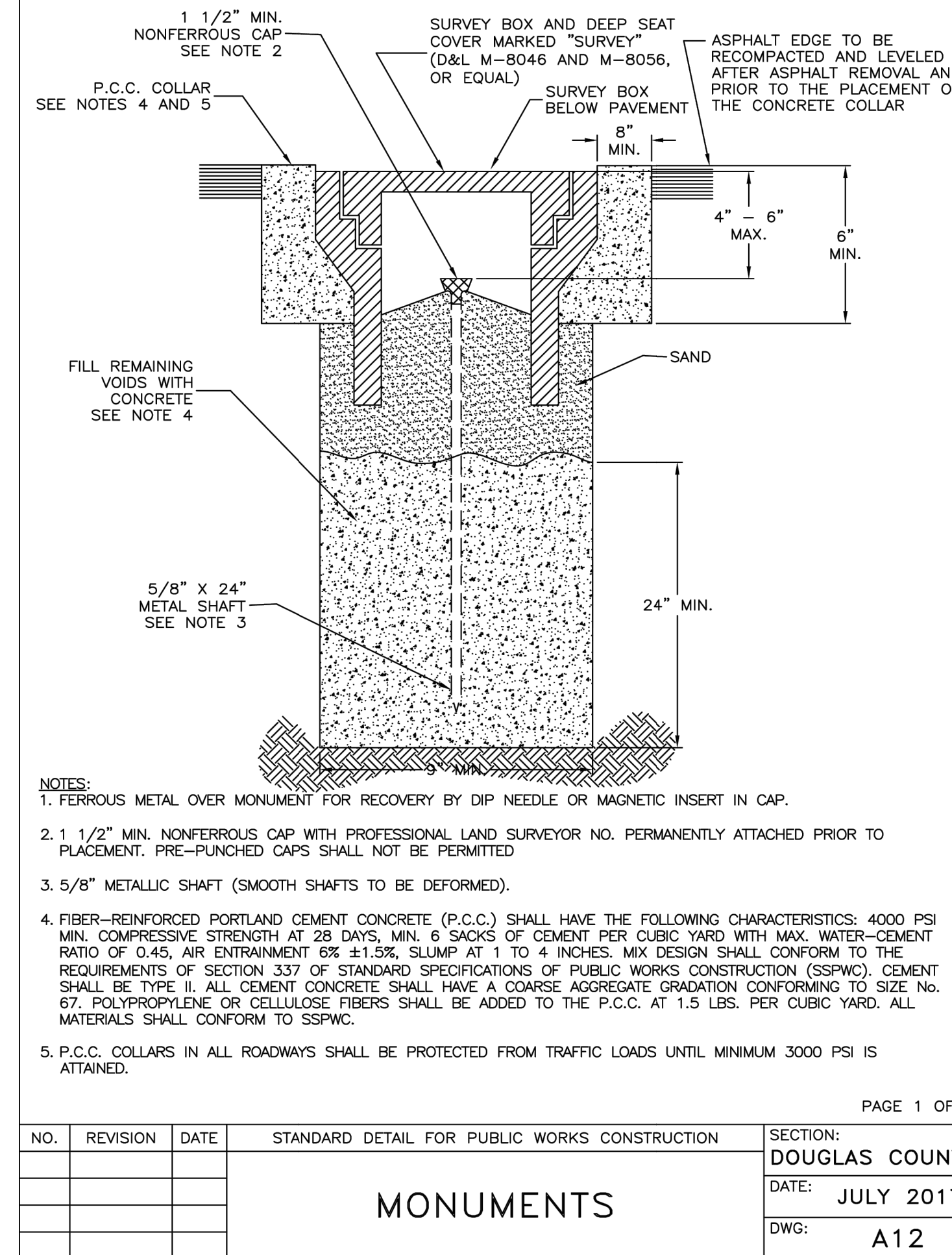
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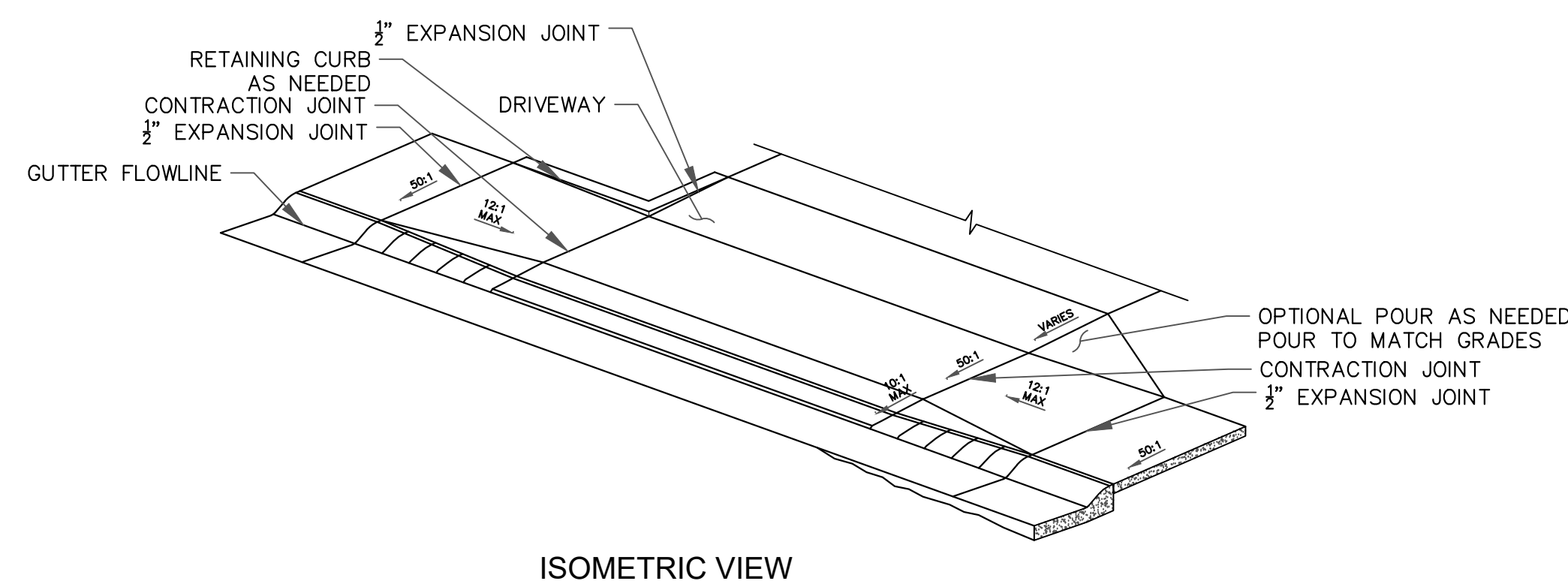
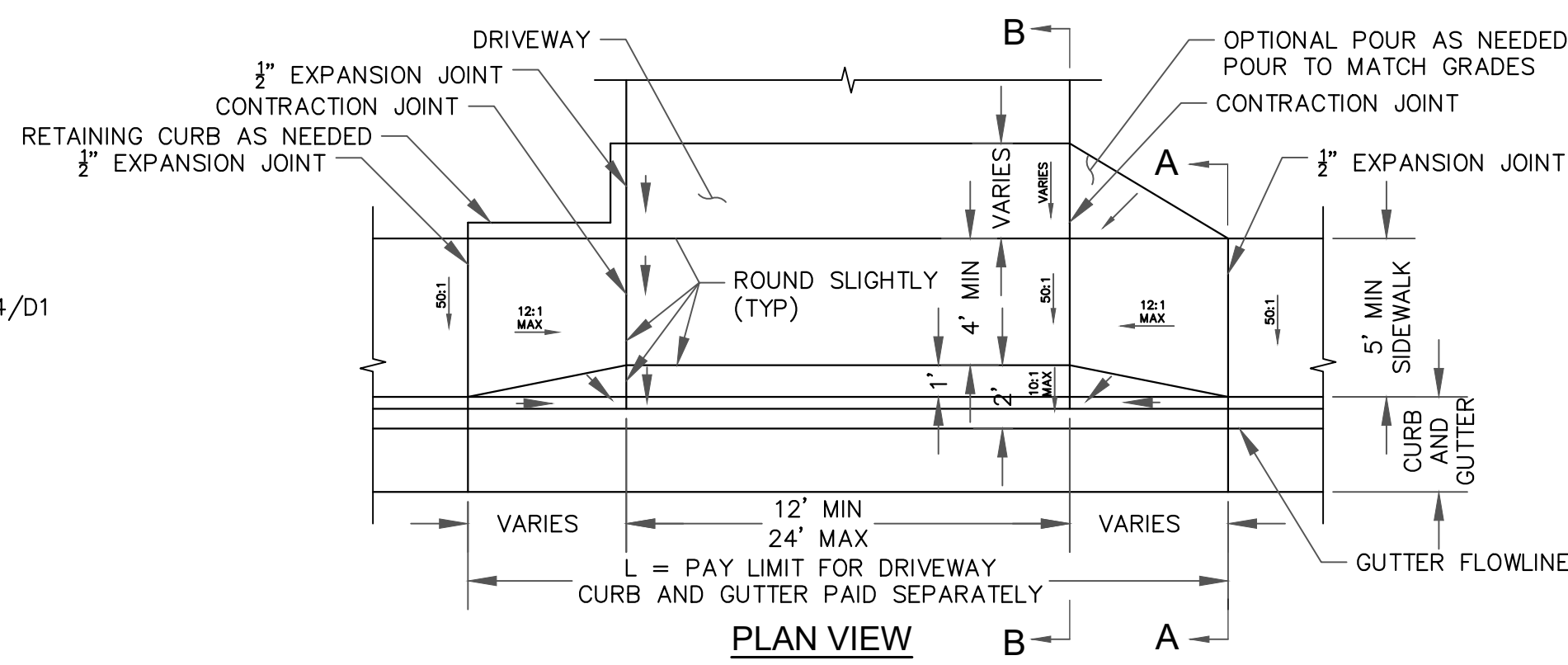
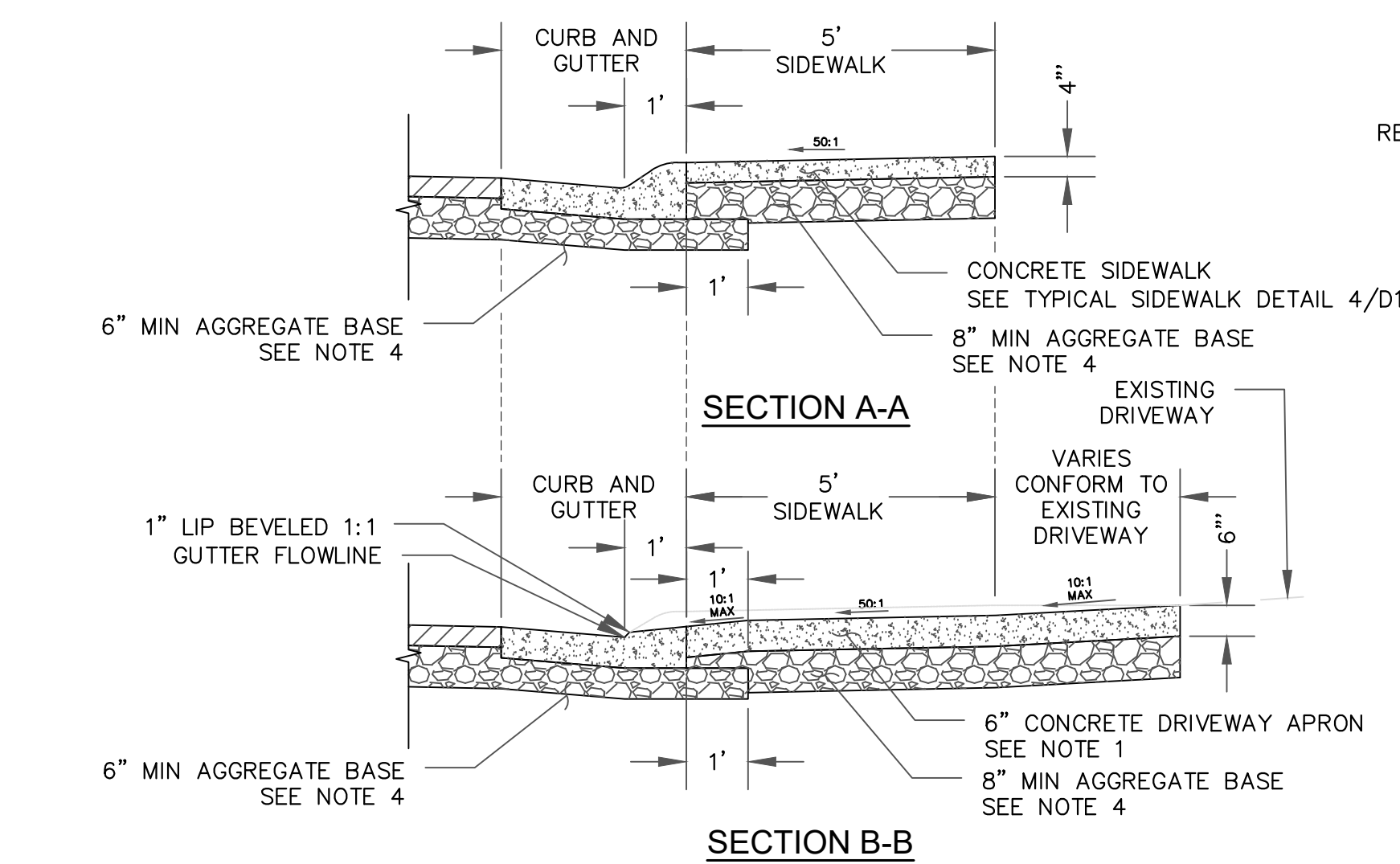
2 PCC DRIVEWAY DETAIL A
D4 NOT TO SCALE



3 PCC DRIVEWAY DETAIL B
D4 NOT TO SCALE



4 SURVEY MONUMENT
D4 NOT TO SCALE



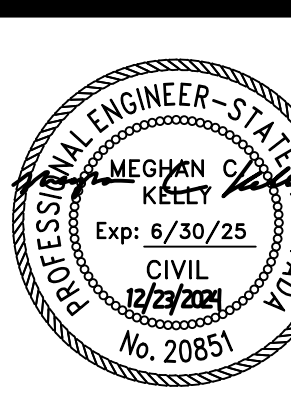
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DRIVEWAY NOTES:

- PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
- WEAKEND PLANE JOINTS SHALL BE CONSTRUCTED EVERY 5 FEET. THE JOINTS SHALL PENETRATE TO A DEPTH OF 2 INCHES AND BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED IN SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- TYPE 2 CLASS B AGGREGATE BASE SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OR THE PROJECT SPECIFICATIONS.
- SPECIAL DESIGN WILL BE REQUIRED TO ENSURE ADA COMPLIANCE IN THE CASE OF EXISTING ATTACHED SIDEWALK.
- ALL RAMP SHALL BE 12:1 OR FLATTER.
- CONCRETE DRIVEWAY CAN BE POURED MONOLITHICALLY WITH CURB AND GUTTER.
- ALL SLOPES ARE RELATIVE TO NORMAL.
- LENGTH VARIES ACCORDING TO CURB AND GUTTER.
- RETAINING CURBS AND ACQUISITION OF CONSTRUCTION EASEMENT MAY BE NECESSARY.
- SAWCUT AND REMOVE EXISTING DRIVEWAY AT CONFORM LOCATIONS.
- TACK SAWCUT EDGE WITH BITUMINOUS COATING.

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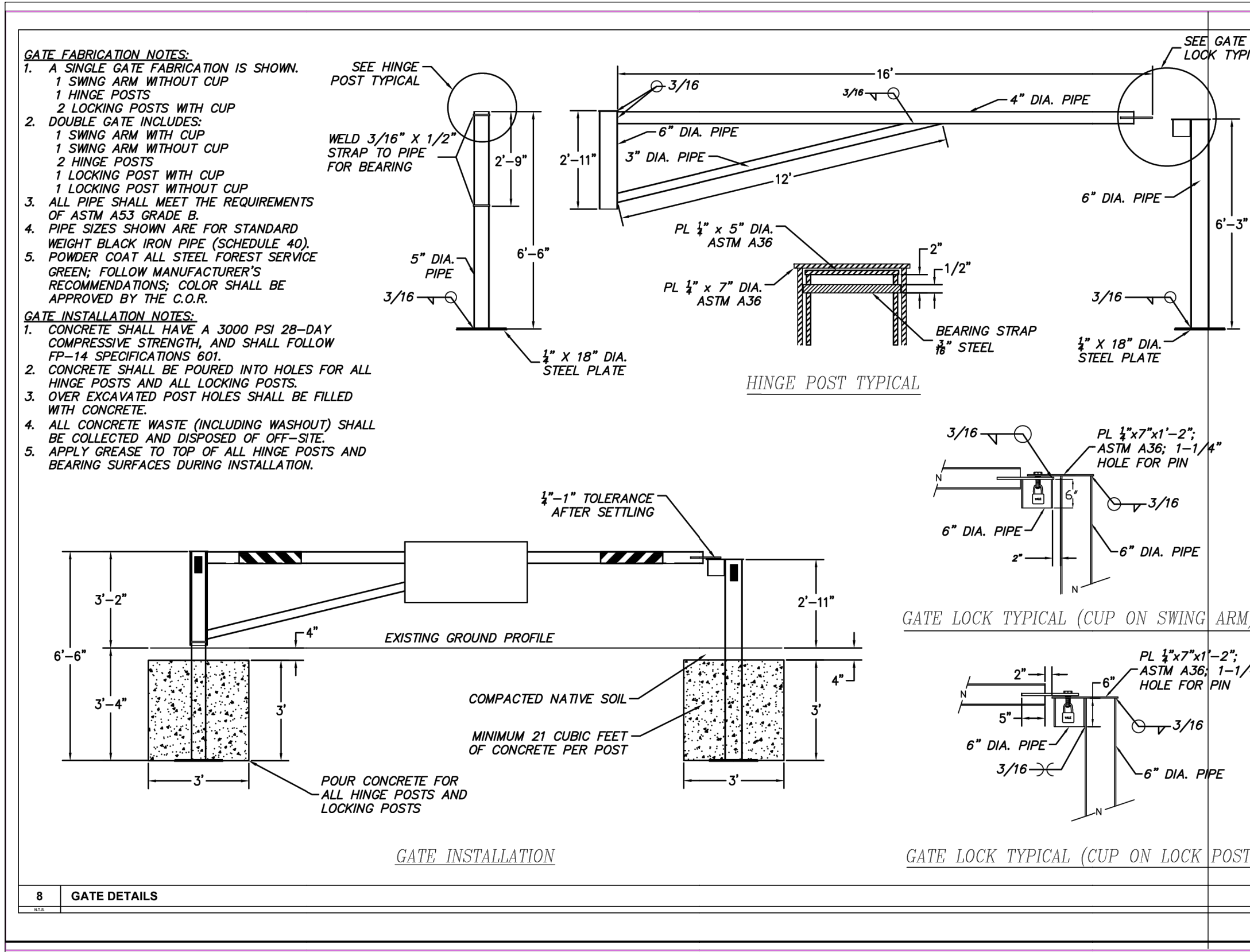
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				DATE: JULY 2017
				DWG: A12



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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



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USDA **UAS**
United States Department of Agriculture
Forest Service

R05
PACIFIC SOUTHWEST REGION

PROJECT NAME:
BAYVIEW ENTRANCE ROAD PARKING LOT UPGRADES PROJECT

LAKE TAHOE BASIN MANAGEMENT UNIT

DRAWING TITLE:
GATE DETAILS

DATE:
1/17/2024

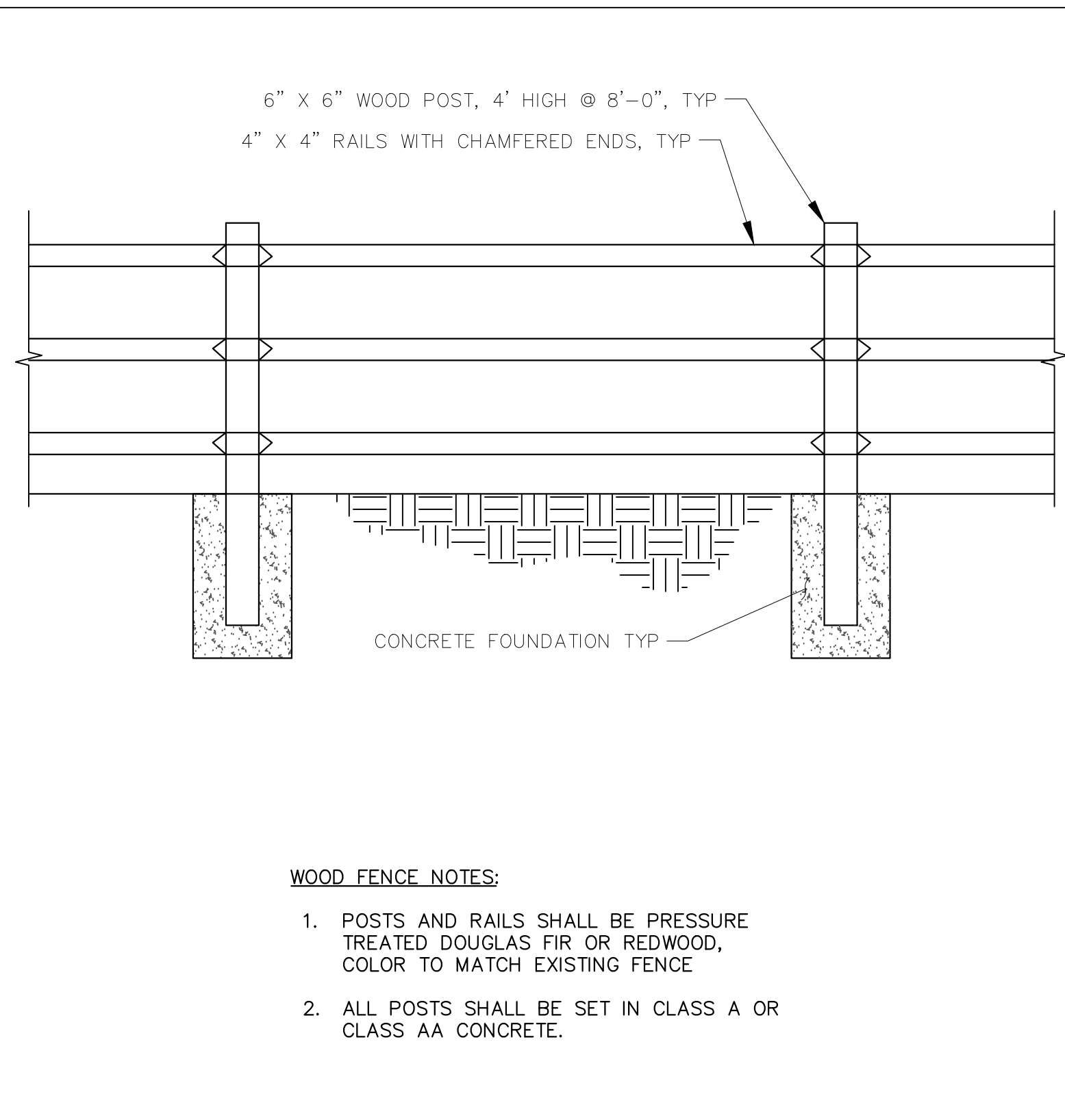
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MTA

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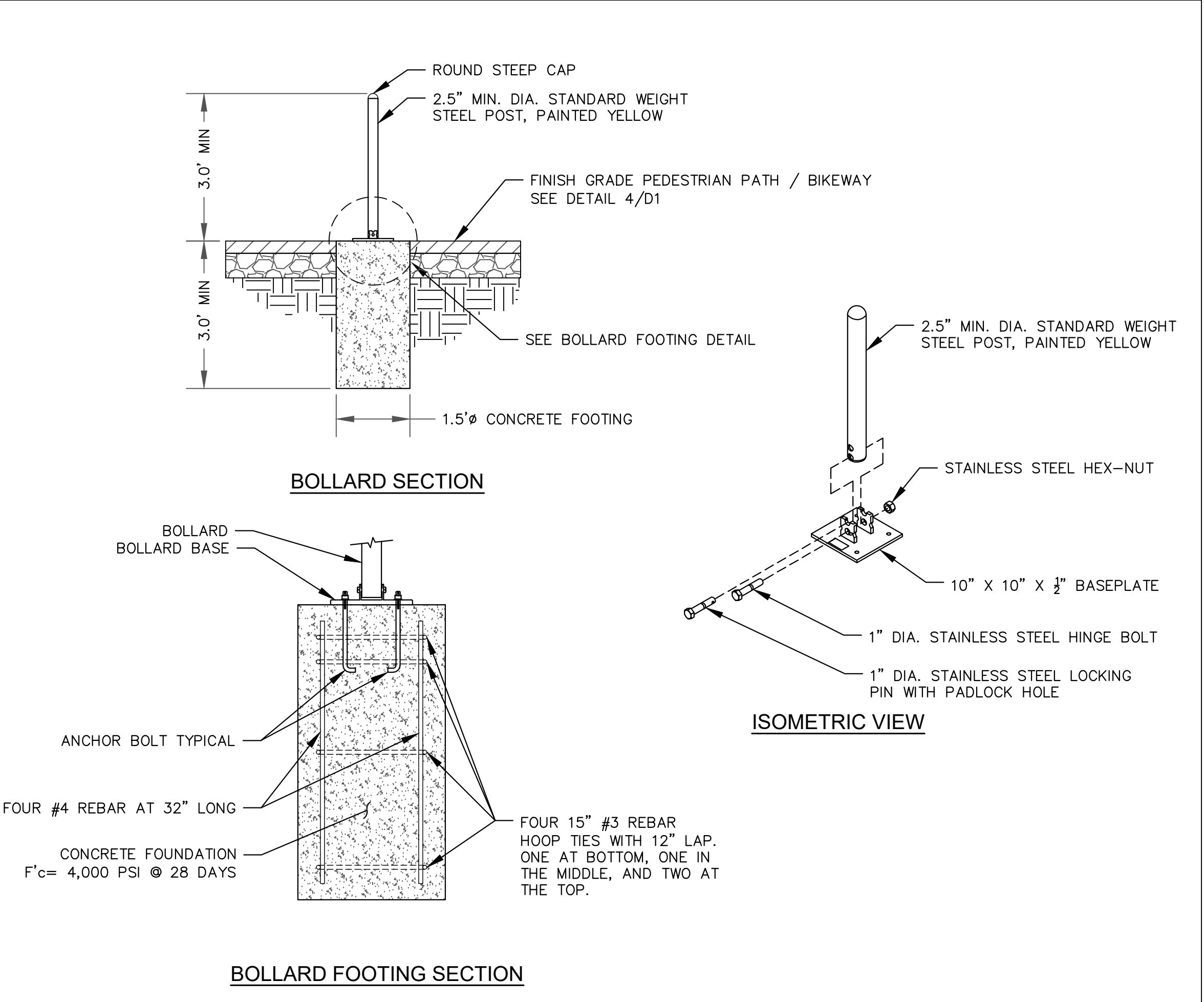
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PROJECT NO.
SHEET 08 OF 10

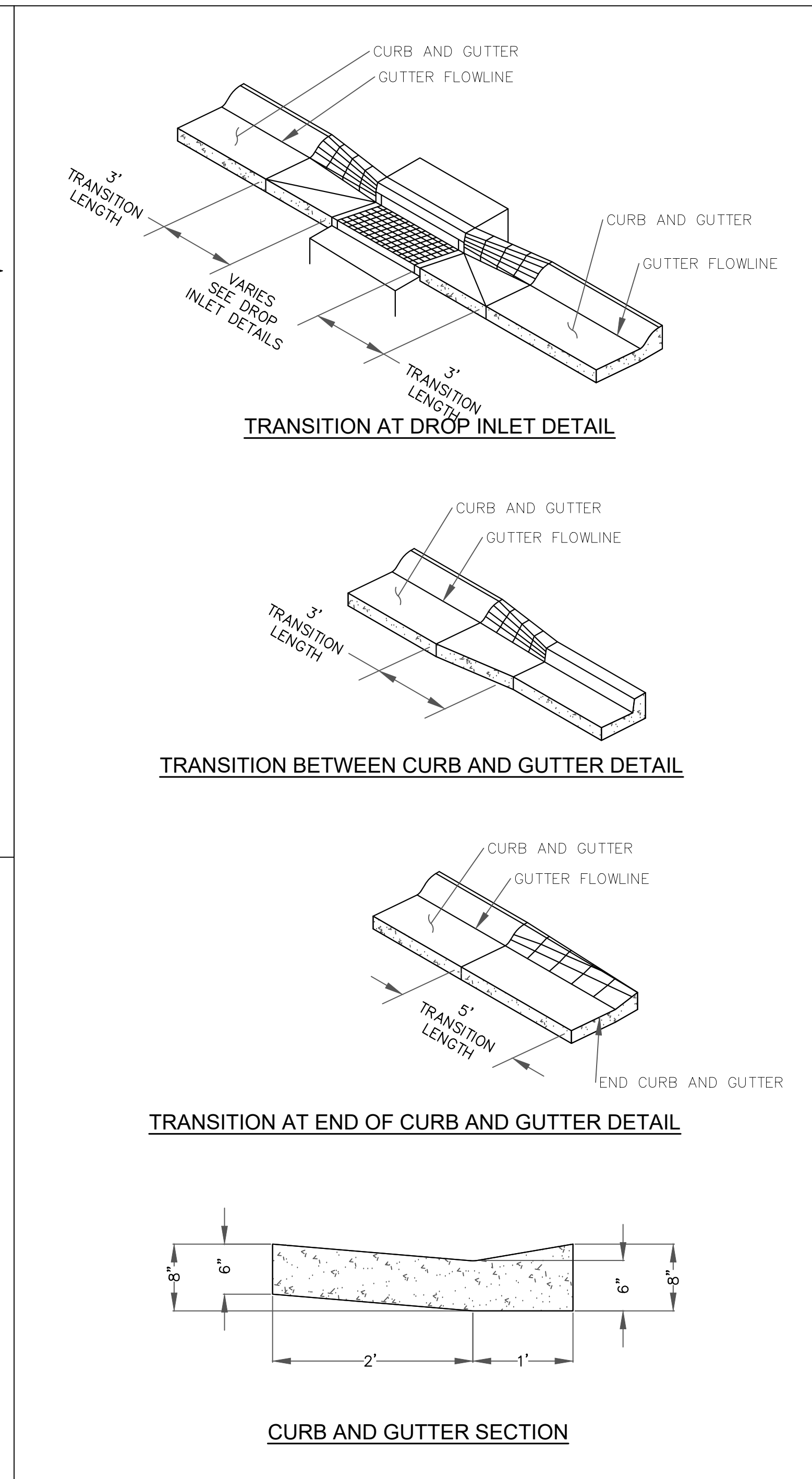


1 DRIVE GATE DETAIL
D5 NOT TO SCALE

2 WOOD FENCE DETAIL
D5 NOT TO SCALE

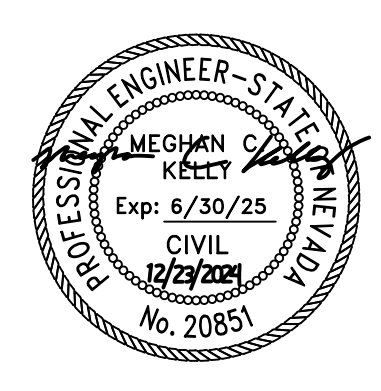


3 BOLLARD DETAIL
D5 NOT TO SCALE



4 CURB AND GUTTER TRANSITION DETAIL
D5 NOT TO SCALE

NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION



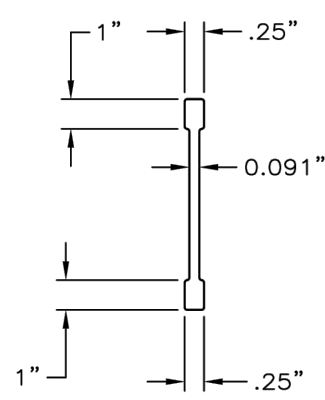
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CHECKED MK
DATE 11/2024
SCALE AS SHOWN
PROJECT KAHLE DRIVE COMPLETE STREETS
SHEET



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WHITE REFLECTIVE LETTERS
TYPE III HIGH INTENSITY PRISMATIC SHEETING

N Douglas St

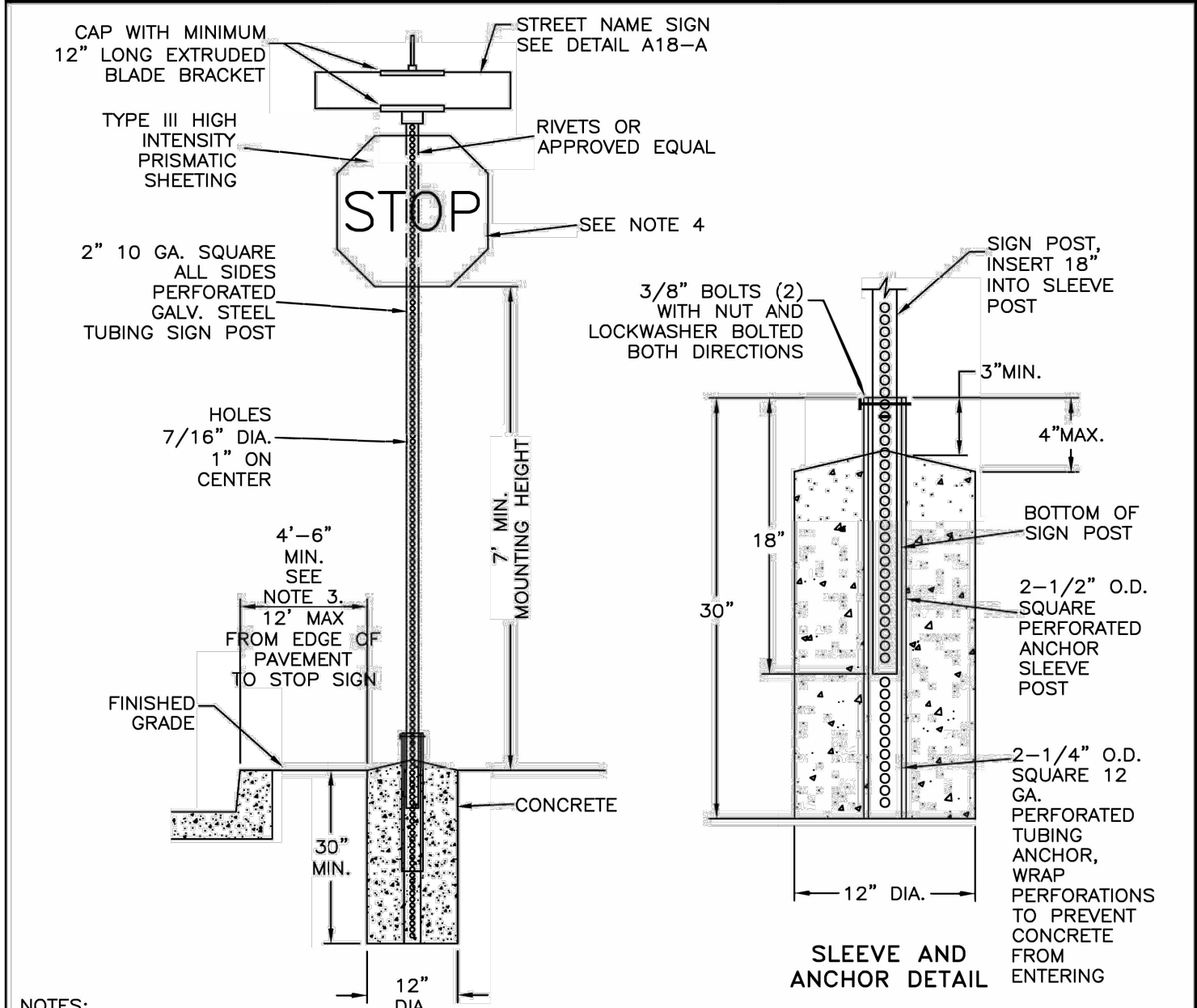


- NOTES:**
1. STREET NAME SIGN, DIMENSIONING, AND LETTERING SHALL BE IN COMPLIANCE SIGN TYPE D3-1 WITHOUT BORDER, WITH THE LATEST EDITION OF THE MUTCD AND STANDARD HIGHWAY SIGNS MANUAL.
 2. SIGN PANEL SHALL BE HEAVY DUTY EXTRUDED ALUMINUM 6061-T6.
 3. REFLECTIVE SHEETING AND LETTERS SHALL BE MOUNTED IN CONFORMANCE WITH SECTION 215 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 4. MOUNT SIGN IN MINIMUM 12 INCH LONG EXTRUDED BLADE BRACKET.
 5. FOR PRIVATE STREETS THAT INTERSECT WITH A PUBLIC ROAD, AN ADDITIONAL TRAFFIC SIGN SHALL BE INCLUDED THAT READS: "PRIVATE STREET NOT MAINTAINED BY COUNTY".

PAGE 1 OF 1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			STREET NAME SIGN	DATE: JULY 2017 DWG: A18-A

1 STREET NAME SIGN
D6 NOT TO SCALE

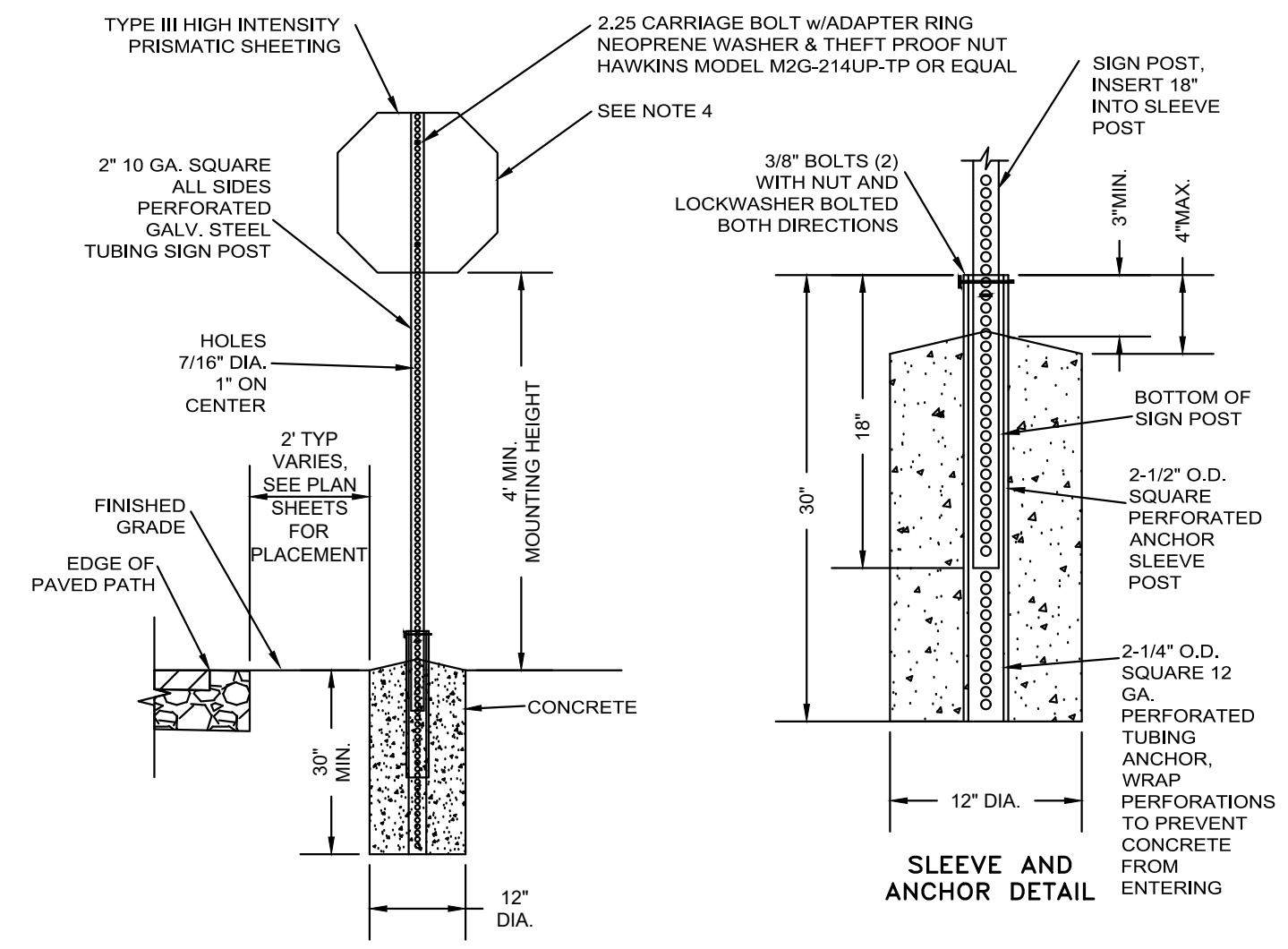


- NOTES:**
1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 215 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 2. STREET NAME SIGN SHALL BE MOUNTED WITH VANDAL-RESISTANT HARDWARE.
 3. ON STREETS WHERE CURB DOES NOT EXIST, SET EDGE OF SIGN 6' MINIMUM FROM PAVEMENT EDGE.
 4. SIGN (WITH 3/8" GALVANIZED STEEL BACK BRACE) AND LETTERING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MUTCD.
 5. SIGN POST SHALL NOT BE ANCHORED IN SIDEWALK.
 6. POSTS AND ANCHORS IN THE DOWNTOWN AREA OF GARDNERVILLE SHALL BE BLACK.
 7. DECORATIVE POLES AND SIGNS MAY BE REQUIRED IN THE TOWNS OF MINDEN AND GARDNERVILLE. REFER TO THE TOWN'S SPECIFIC DETAILS.

PAGE 1 OF 1

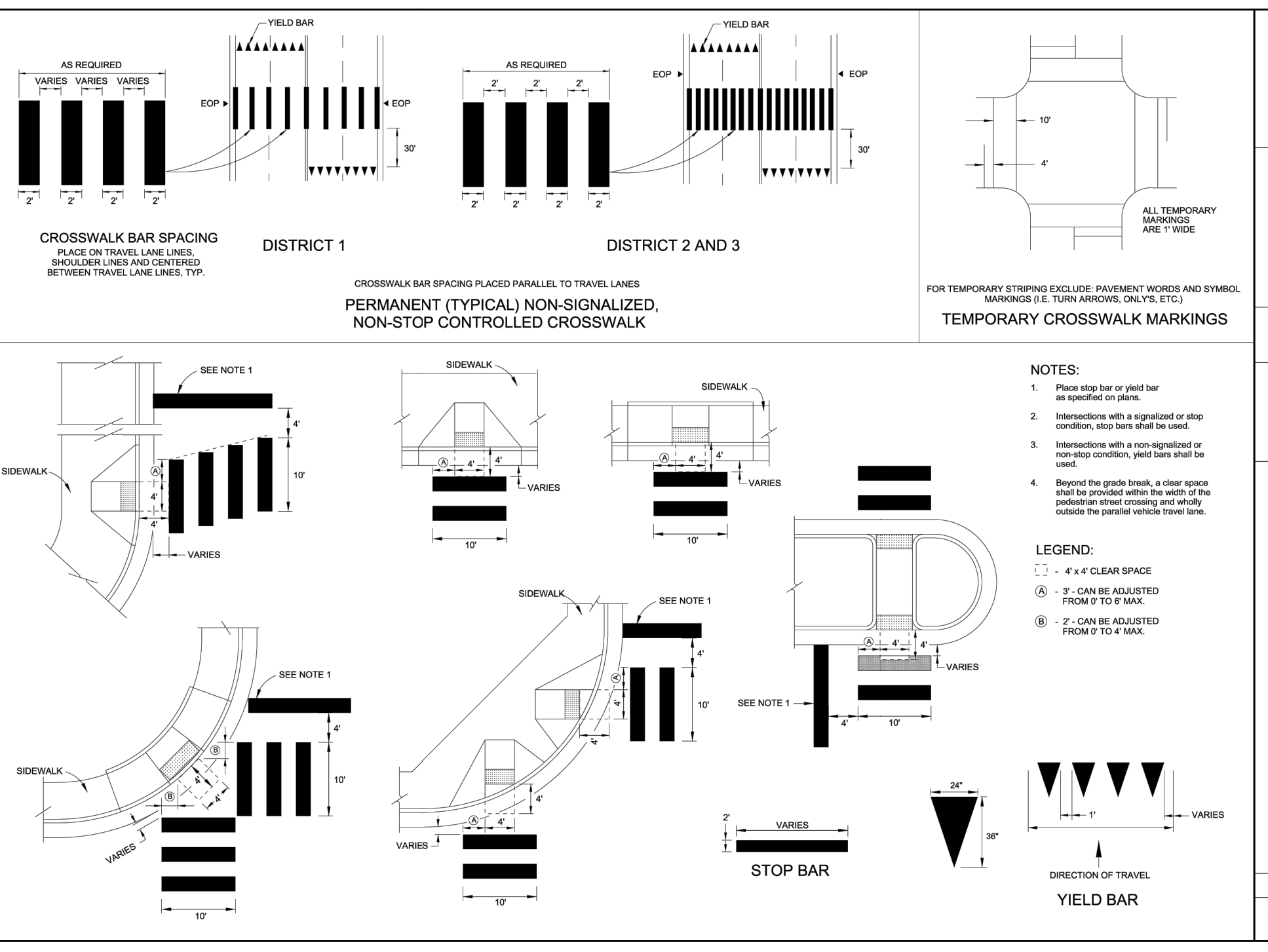
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			STANDARD STREET SIGN	DATE: DEC. 2018 DWG: A18-B

2 STANDARD SIGN DETAIL
D6 NOT TO SCALE



- NOTES:**
1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 215 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 2. SIGNS SHALL BE MOUNTED WITH VANDAL-RESISTANT HARDWARE.
 3. ON STREETS WHERE CURB DOES NOT EXIST, SET EDGE OF SIGN 6' MINIMUM FROM PAVEMENT EDGE.
 4. SIGN (WITH 3/8" GALVANIZED STEEL BACK BRACE) AND LETTERING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MUTCD.
 5. SIGN POST SHALL NOT BE ANCHORED IN SIDEWALK.
 6. FINISH ON BACK OF SIGNS: MIDNIGHT GREEN ENDURA SHIELD IV, TNEMEC SEMIGLOSS HIGH BUILD ACRYLIC POLYURETHANE ENAMEL NO. 75-J7751.
 7. POSTS SHALL BE A MINIMUM OF 2' FROM THE EDGE OF THE PAVED PATH.

3 BICYCLE TRAIL SIGN DETAIL
D6 NOT TO SCALE



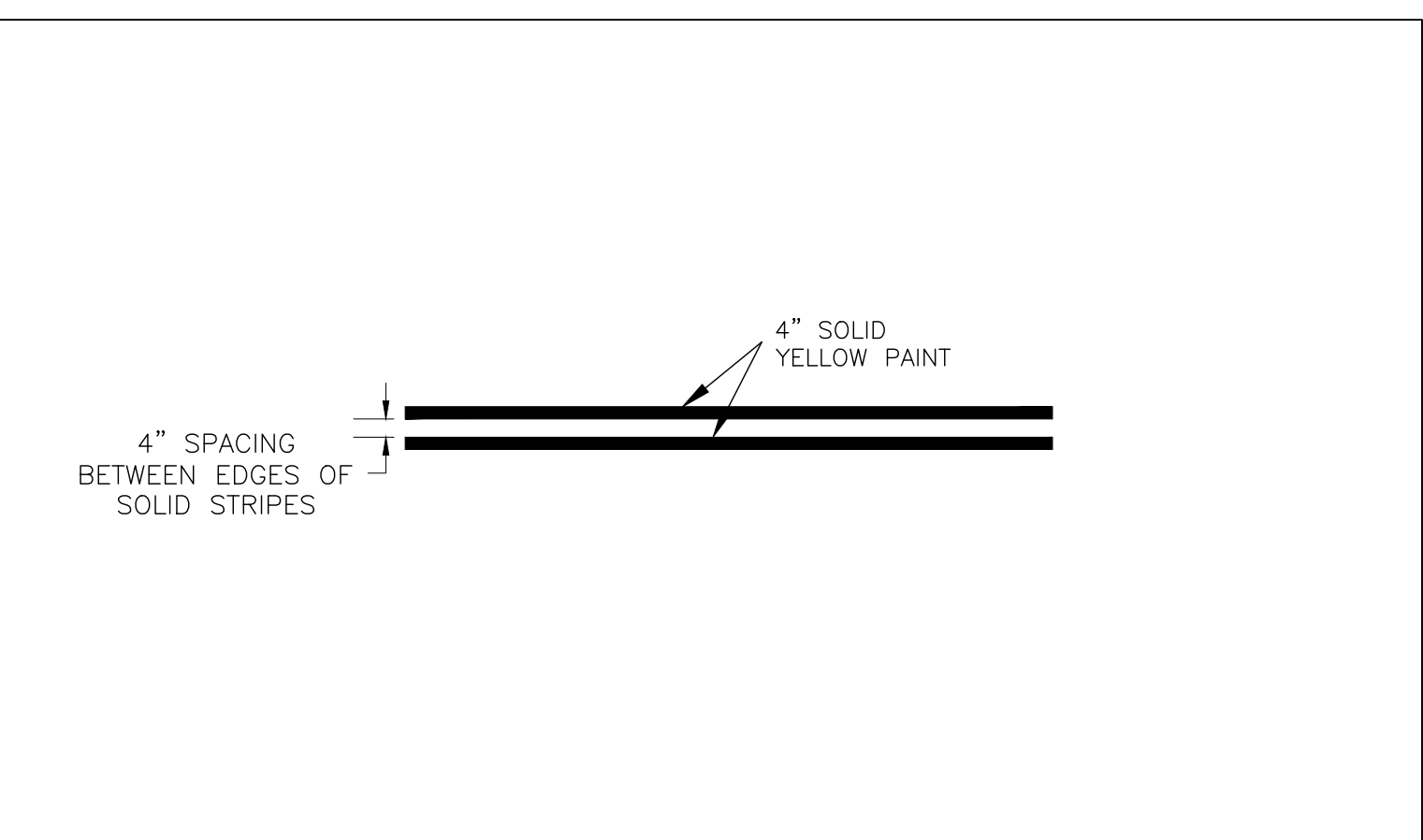
7 CROSSWALK AND STOP BAR MARKINGS
D6 NOT TO SCALE

SIGN MESSAGE	SIGN NUMBER	PANEL SIZE (IN x IN x IN) (W x H)
STOP	R1-1	30 x 30
SPEED LIMIT	R2-1	24 x 30
NEIGHBORHOOD (PLAQUE)	R2-5bP	24 x 6
DO NOT ENTER	R5-1	30 x 30
NO MOTOR VEHICLES	R5-3	24 x 24
NO PARKING ANY TIME	R7-1	12 x 18
NO PARKING (SYMBOL)	R8-3	24 x 24
BICYCLE / PEDESTRIAN	W11-15	30 x 30
TRAIL X-ING (PLAQUE)	W11-15P	18 x 12
DOWNWARD DIAGONAL ARROW (PLAQUE)	W16-7PL	12 x 6
AHEAD (PLAQUE)	W16-9P	12 x 6
STREET NAME (VARIES)	D3-1	VARIES

5 ROADWAY SIGN PANEL DETAIL
D6 NOT TO SCALE

SIGN MESSAGE	SIGN NUMBER	PANEL SIZE (IN x IN x IN) (W x H)
STOP	R1-1	18 x 18
YIELD	R1-2	18 x 18 x 18
STOP AHEAD	W3-1	18 x 18

6 BICYCLE TRAIL SIGN PANEL DETAIL
D6 NOT TO SCALE

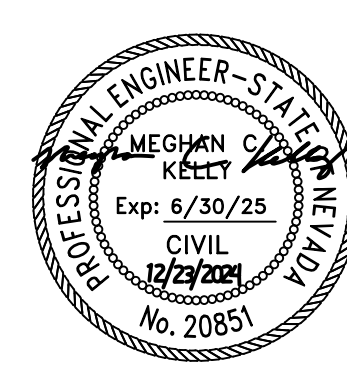


4 DOUBLE SOLID YELLOW STRIPING DETAIL
D6 NOT TO SCALE



NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XX	

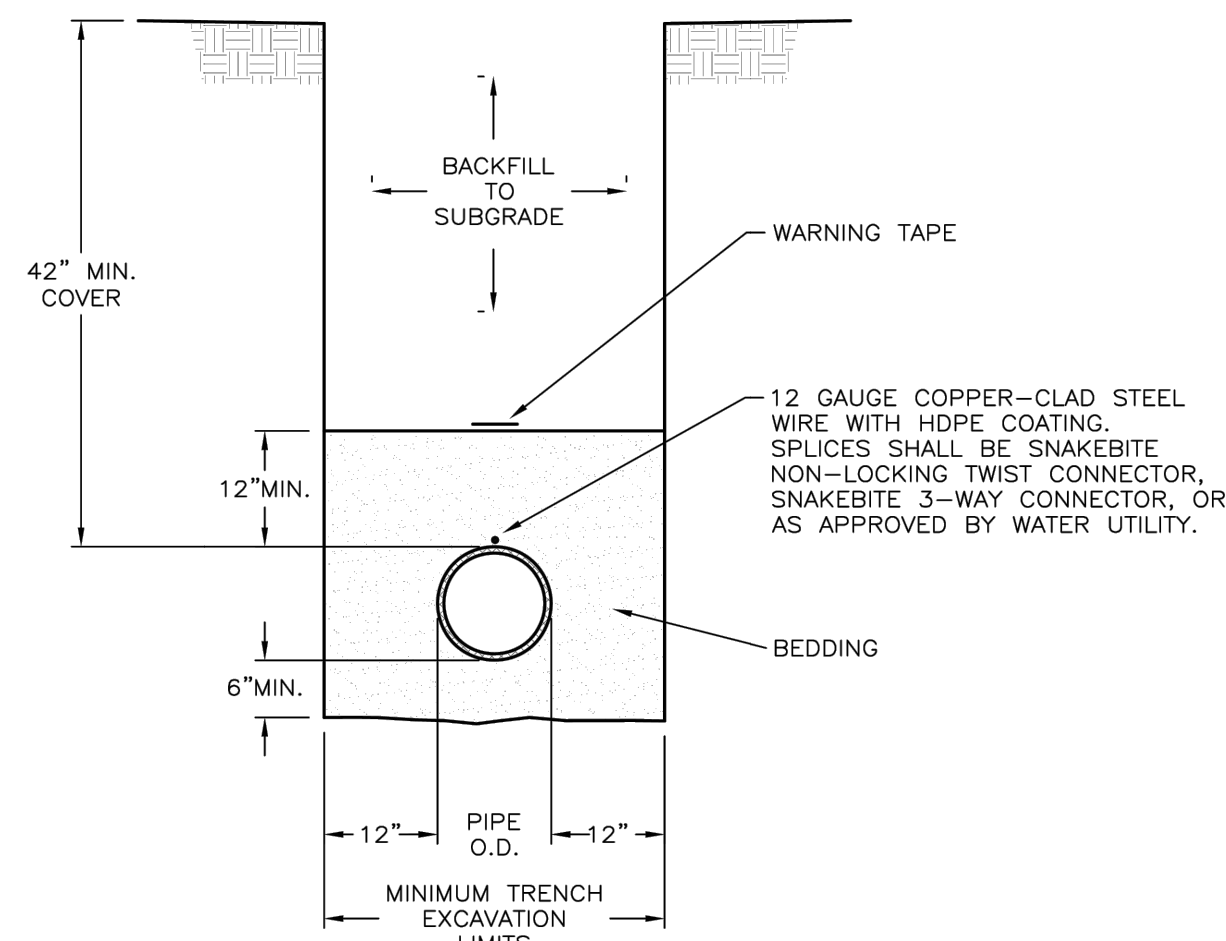
DETAILS - SIGNING AND STRIPING
KAHLE DRIVE COMPLETE STREETS PROJECT



DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



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- NOTES:
- BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS A (IMPORTED) OR CLASS E (NATIVE) BACKFILL AS SPECIFIED IN SUBSECTION 200.03 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND DENSIFIED TO 90% RELATIVE COMPACTION.
 - BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
 - CLASS C BACKFILL OR OTHER GRADATION AS APPROVED BY WATER UTILITY, WITH FILTER FABRIC MAY BE USED TO SUPPORT BEDDING IN HIGH GROUNDWATER OR UNSTABLE SOIL CONDITIONS WITH THE APPROVAL OF THE WATER UTILITY. FILTER FABRIC SHALL BE WRAPPED AROUND BEDDING SECTION WITH 2 FOOT OVERLAP ON TOP.
 - FOR STRUCTURAL (PAVEMENT) SECTION, SEE "STREET CUT REPAIR" DETAIL A14.
 - SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY. ALL EXCAVATIONS SHALL CONFORM TO THE MOST RECENT OSHA REQUIREMENTS.
 - PLACE WARNING TAPE 1 FOOT ABOVE WATER AND RECLAIMED WATER PIPE.
 - WATER STOPS SHALL BE USED IN HIGH GROUND WATER CONDITIONS PER "WATER STOP" DETAIL B02. FOR WET TRENCH BEDDING SEE DETAIL C01.
 - FOR USE OUTSIDE PAVED ROAD SECTION.

PAGE 1 OF 1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			TRENCH EXCAVATION & BACKFILL	DATE: JULY 2017 DWG: B01

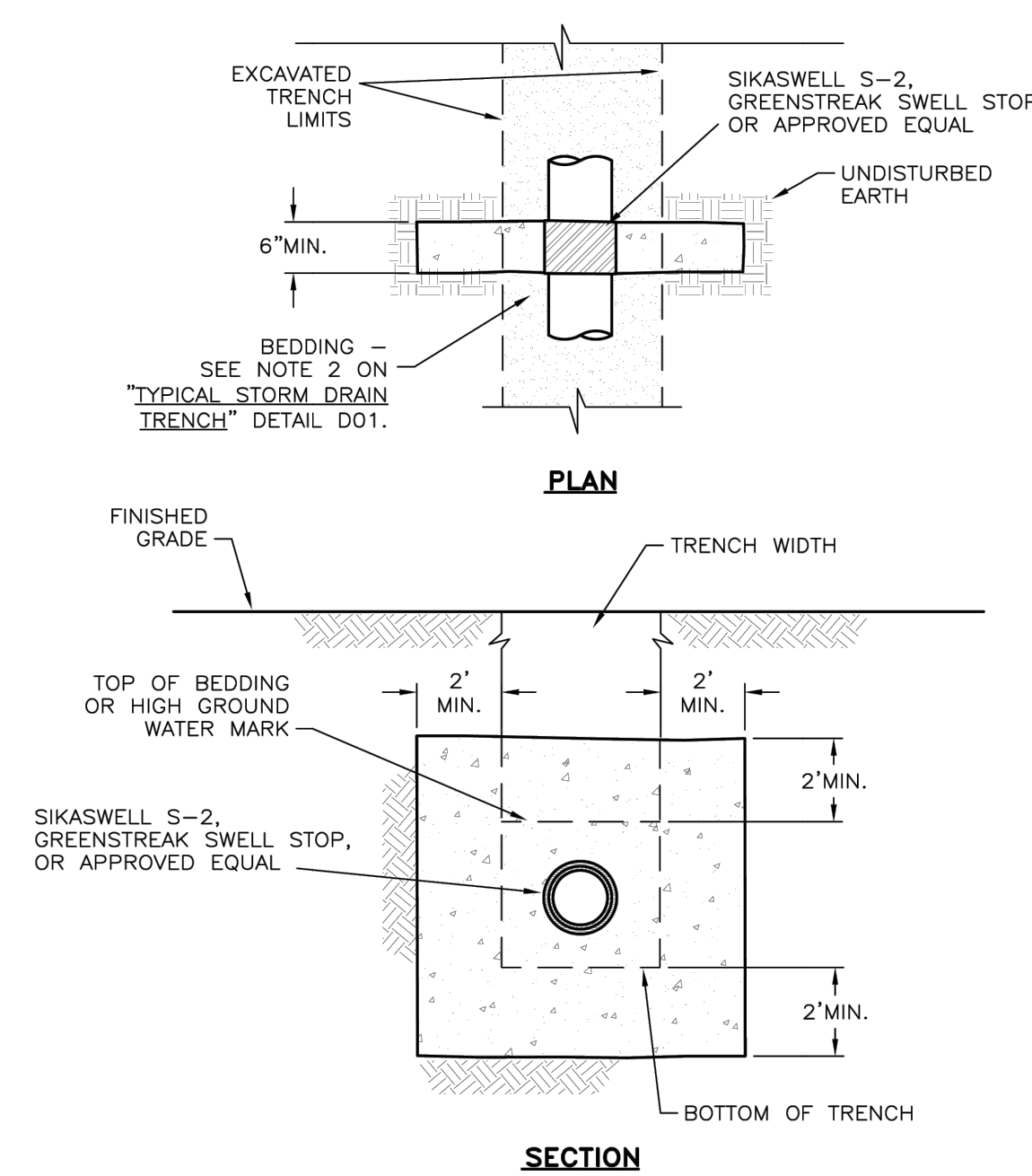
1 TRENCH EXCAVATION & BACKFILL
D7 NOT TO SCALE

- NOTES:
- ALL REQUIREMENTS OF THE STORM DRAIN UTILITY ORDINANCE MUST BE MET.
 - CLASS A AND CLASS E BACKFILL AND BEDDING MATERIAL SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. BEDDING AND BACKFILL SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 305.10 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - PLACE WARNING TAPE 1-FOOT ABOVE STORM DRAIN PIPE. WARNING TAPE SHALL READ "CAUTION STORM DRAIN MAIN".
 - CLASS A BACKFILL AS BEDDING MATERIAL PER ORANGE BOOK 200.03.02. COMPACT OR CONSOLIDATE TO PROVIDE PROPER SUPPORT OF PIPE.
 - UTILIZE WATER STOP DETAIL D02 FOR WET TRENCHES.

PAGE 2 OF 2

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			TYPICAL STORM DRAIN TRENCH	DATE: JULY 2017 DWG: D01

2 TYPICAL STORM DRAIN TRENCH
D7 NOT TO SCALE



- NOTES:
- WATER STOPS SHALL BE CONSTRUCTED AT 200-FOOT MAXIMUM SPACING IN GROUND WATER CONDITIONS AND WHERE WET TRENCH BEDDING IS USED, AS DIRECTED BY SEWER UTILITY.
 - WRAP PIPE WITH SIKASWELL S-2, OR, GREENSTREAK SWELL STOP, OR EQUIVALENT WHERE PIPE IS EXPOSED TO CONCRETE PRIOR TO POURING.
 - USE LIGHT CONCRETE TYPE A SLURRY BACKFILL PER ORANGE BOOK 337.08.01-1. IF CEMENT BOARD IS USED FOR CONCRETE FORMS, IT MAY BE LEFT IN PLACE.

PAGE 1 OF 1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			WATER STOP	DATE: JULY 2017 DWG: D02

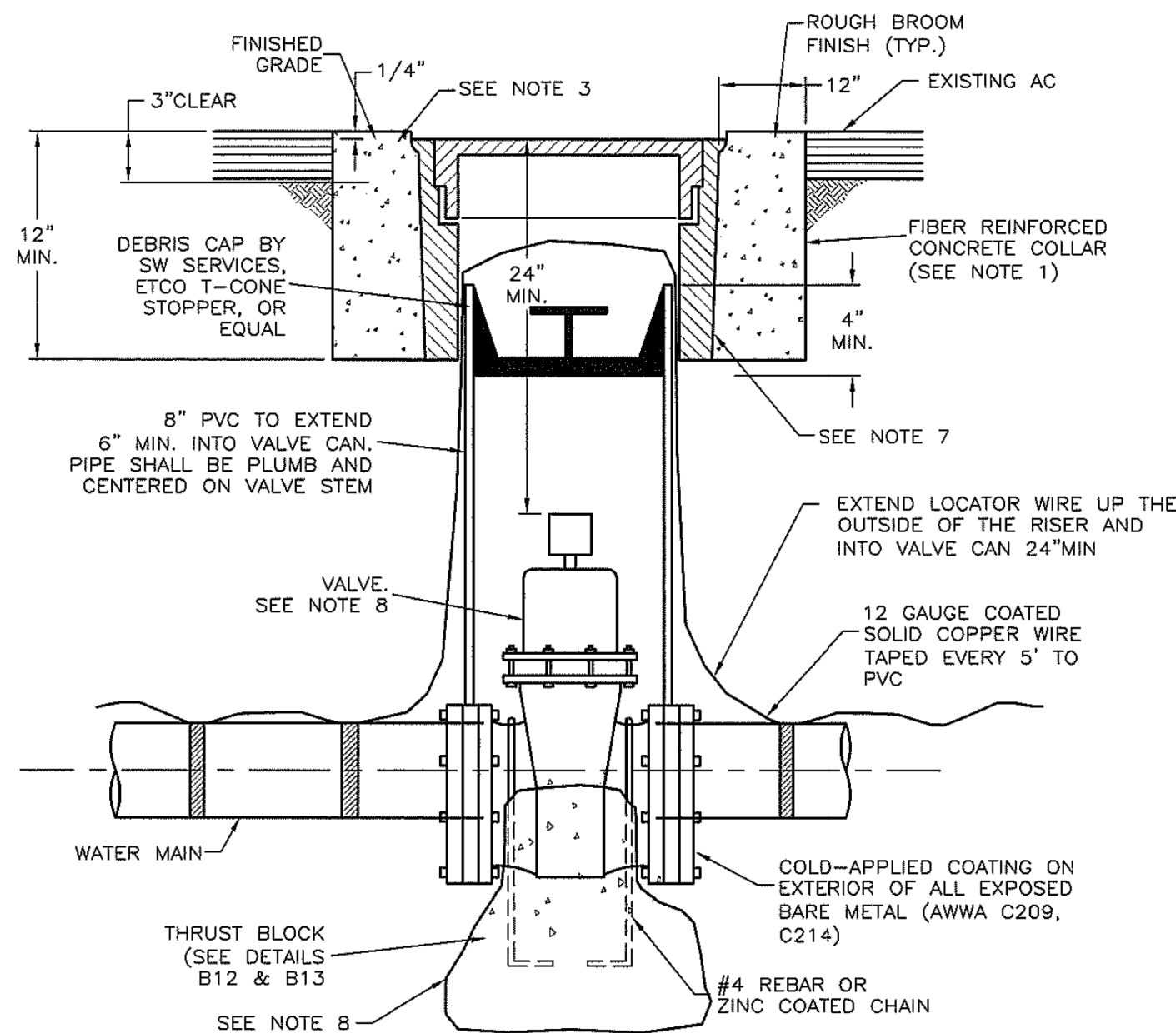
3 WATER STOP
D7 NOT TO SCALE

- MANHOLE NOTES:
- FOR CAST IN PLACE CONCRETE BASE ALL REINFORCING STEEL TO BE NO. 4 BARS AT 18 INCH CENTERS TIGHTLY WOUND AT ALL INTERSECTIONS AND EMBEDDED IN CONCRETE AT LEAST 2 INCHES AND BAR ENDS MUST CLEAR CONCRETE SURFACES BY 1-1/2 INCHES.
 - ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
 - MANHOLE WITH MORE THAN ONE PIPE-INFLOW, PIPE INVERT ELEVATIONS SHALL BE ≥ 0.1 FOOT ABOVE OUTFLOW PIPE ELEVATION FOR STRAIGHT FLOW THROUGH, OR 0.2 FOOT FOR 90° BEND FLOW THROUGH.
 - FOR VALUES OF "H" SEE PLANS. "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTFLOW PIPE INVERT ELEVATION AND THE TOP OF MANHOLE ELEVATION AT STREET GRADE.
 - DO NOT PLACE PIPES IN TAPERED SECTION.
 - MANHOLE COVER SHALL BEAR "STORM DRAIN" ON LID.
 - IF PIPES OF DIFFERENT DIAMETERS ENTER OR EXIT THE SAME MANHOLE, THE CROWNS OF THE PIPE SHALL BE AT THE SAME ELEVATION. THE LARGEST PIPE IN THE MANHOLE SHALL GOVERN THE DIAMETER OF THE MANHOLE.
 - LADTECH HDPE ADJUSTMENT RINGS FOR MANHOLES MAY BE USED PER MANUFACTURER'S RECOMMENDATIONS. WOOD SHIMS MAY NOT BE USED IN CONJUNCTION WITH LADTECH RINGS. OTHER ADJUSTING RINGS MAY BE CONSIDERED FOR APPROVAL BY ENTITY THAT WILL MAINTAIN THE ROADWAY.
 - T = THICKNESS PIPE WALL.
 - D = DIAMETER.
 - SUBGRADE SHALL BE COMPACTED IN CONFORMANCE WITH SECTION 302 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - FOR MANHOLE CONNECTIONS WITH PIPE DIAMETER GREATER THAN 36-INCHES, THE BOOT SHALL NOT BE REQUIRED. ALL PIPE CONNECTIONS GREATER THAN 36-INCH IN DIAMETER SHALL BE GROUTED IN INTERIOR & EXTERIOR OF THE MANHOLE. GROUT SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SECTION 200.04.

PAGE 1 OF 1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			STORM DRAIN MANHOLE NOTES	DATE: JULY 2017 DWG: D05

4 STORM DRAIN MANHOLE NOTES
D7 NOT TO SCALE



SEE NOTES ON PAGE 2

PAGE 1 OF 2

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			VALVE	DATE: JULY 2017 DWG: B10

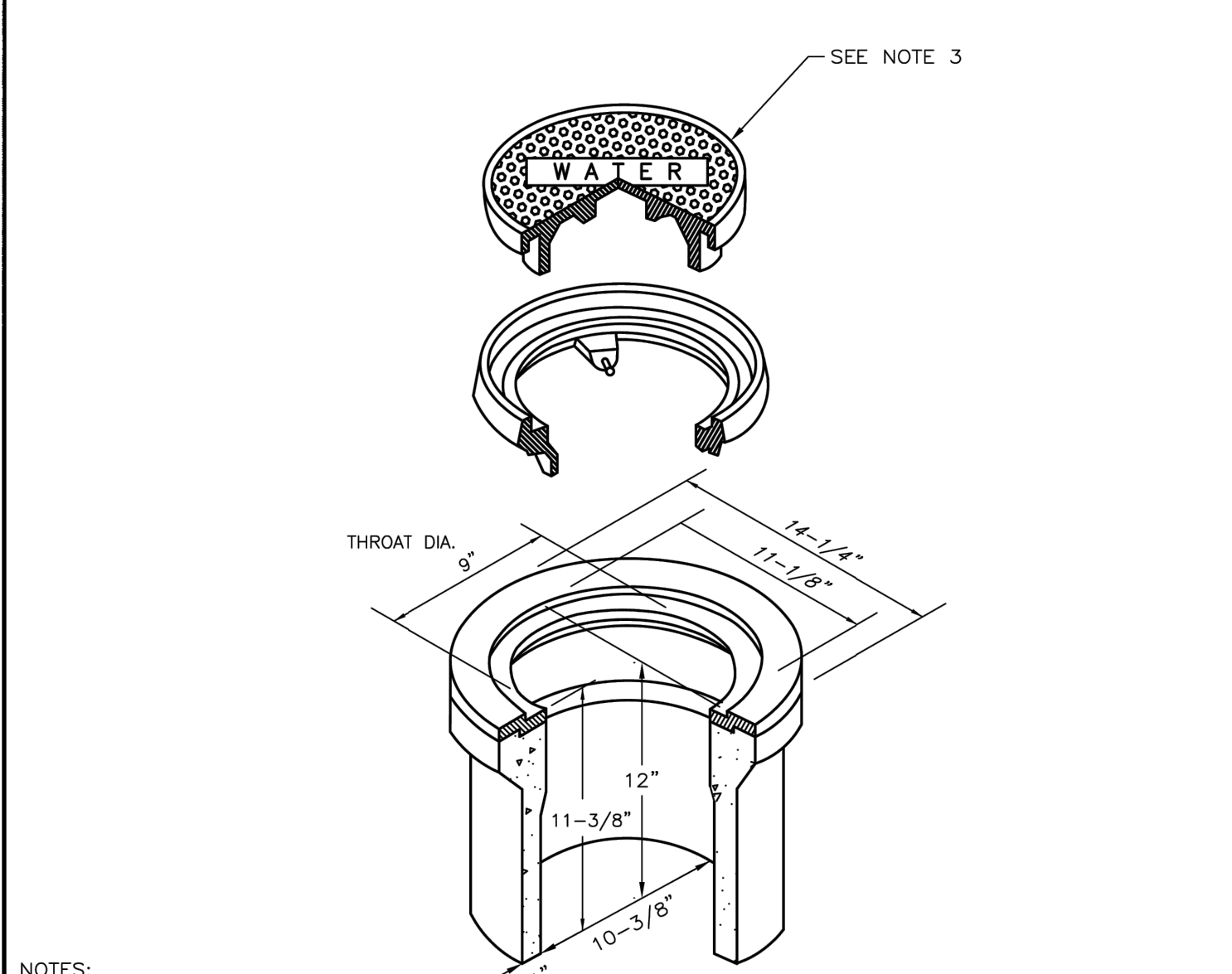
5 VALVE DETAIL A
D7 NOT TO SCALE

- NOTES:
- CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 202.12 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - IN ALL AREAS, LIDS SHALL BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED.
 - THE CONCRETE COLLAR SHALL BE 1/4" BELOW SURROUNDING PAVEMENT.
 - SPLICES IN WIRE SHALL BE CONNECTED BY WIRE NUTS AND WRAPPED WITH U/L LISTED ELECTRICAL TAPE, OR AS SPECIFIED BY WATER UTILITY.
 - THE CONTRACTOR SHALL PROVIDE AND INSTALL EXTENSION STEMS SO THAT VALVE OPERATING NUT IS NOT GREATER THAN 5 FEET BELOW FINISHED GRADE.
 - 10" VALVE BOX AND COVER MARKED "WATER" CHRISTY G-5 (AS APPROVED BY WATER UTILITY) WITH CAST IRON LID OR EQUAL. SEE "VALVE BOX" DETAIL B11.
 - VALVE:
 - FULL FLOW WATERWAY
 - O-RING SEAL
 - WEDGE DESIGN
 - FULL EPOXY COATING INSIDE AND OUT
 - OPERATOR NUT
 - 235 PSI RATING
 - STAINLESS STEEL BOLTS WITH BRONZE OR STAINLESS STEEL NUTS
 - LOW ZINC OR SS STEM
 - AWWA C509
 - RESILIENT WEDGE
 - THRUST BLOCK OR CONCRETE PILLOW WITH #4 REBAR OR ZINC COATED CHAIN MAY BE REQUIRED AT THE DISCRETION OF THE WATER UTILITY. MATERIAL USED FOR THRUST BLOCKING SHALL NOT PREVENT ACCESS TO THE BOLT ASSEMBLY.
 - THRUST BLOCK MAY BE ELIMINATED FOR FLANGED VALVES WITH MUELLER AQUAGRIP OR APPROVED EQUAL FLANGED RESTRAINT ADAPTOR, UNLESS CONSTRUCTING IN THE GARDNERVILLE WATER COMPANY SERVICE AREA.
 - RESTRAINTS PER ENGINEER'S DESIGN, BUT MANUFACTURER PARTS AS APPROVED BY WATER UTILITY.
 - ALL APPURTENANCES SHALL BE AS SPECIFIED, UNLESS APPROVED AS EQUAL BY WATER UTILITY.
 - VALVES LARGER THAN 12-INCH SHALL BE BUTTERFLY VALVES, OR AS APPROVED BY WATER UTILITY.

PAGE 2 OF 2

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			VALVE	DATE: JULY 2017 DWG: B10

6 VALVE DETAIL B
D7 NOT TO SCALE



- NOTES:
- VALVE BOX MUST BE TRAFFIC RATED (CHRISTY G-5, AS APPROVED BY WATER UTILITY) WITH CAST IRON LID OR EQUAL.
 - MINIMUM OF 10 INCHES INSIDE DIAMETER.
 - CAST IRON LID MARKED "WATER" FOR WATER LINE APPLICATIONS. CAST IRON LID MARKED "RECLAIMED WATER" OR "RCW" WHEN INSTALLED ON A RECLAIMED WATER MAIN. CAST IRON LID SHALL BE MARKED "SS FORCE MAIN" OR "SS FM" WHEN INSTALLED ON A SANITARY SEWER FORCE MAIN.
 - RISER OF 8 INCHES PVC EXTENDED IN VALVE CAN A MINIMUM OF 6 INCHES.
 - ALL NEW VALVE BOXES TO BE SET TO GRADE PER "VALVE" DETAIL B10.
 - TORQUE GRADE RING BOLTS TO MANUFACTURER'S RECOMMENDATIONS.

PAGE 1 OF 1

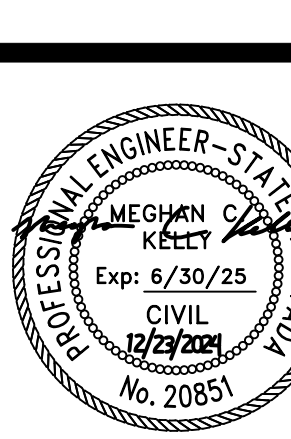
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			VALVE BOX	DATE: JULY 2017 DWG: B11

7 VALVE BOX
D7 NOT TO SCALE



NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	

REVISIONS
DETAILS - DRAINAGE
KAHLE DRIVE COMPLETE STREETS PROJECT

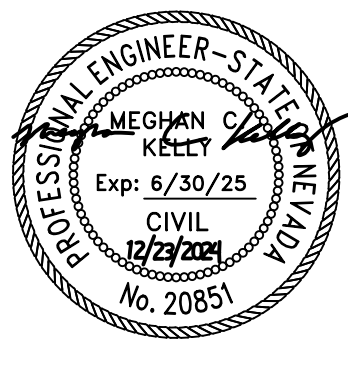


DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	D7

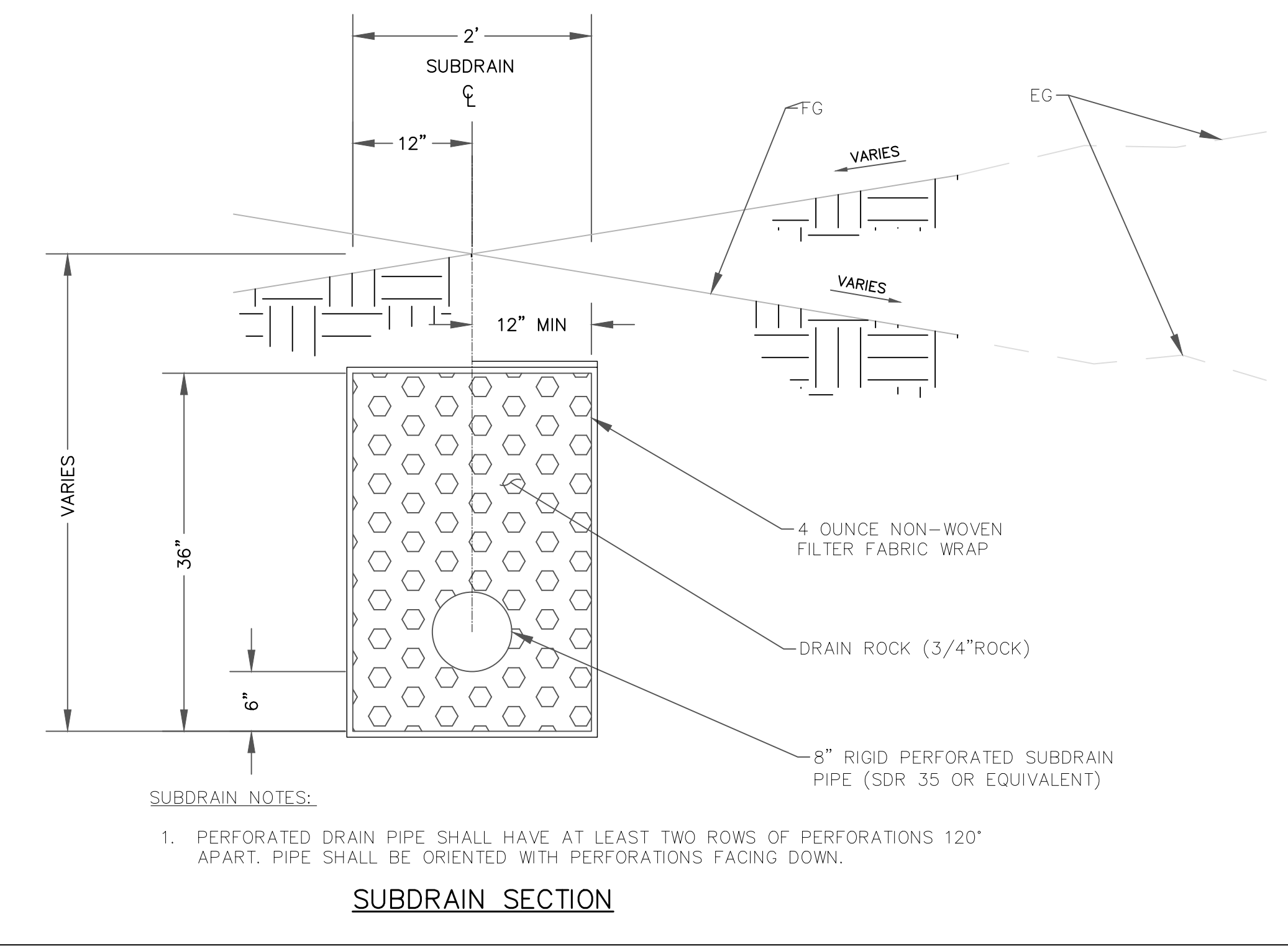


44 OF 81

NO.	DATE	BY	DESCRIPTION
X	XX/XX/XX	XXX	DESCRIPTION

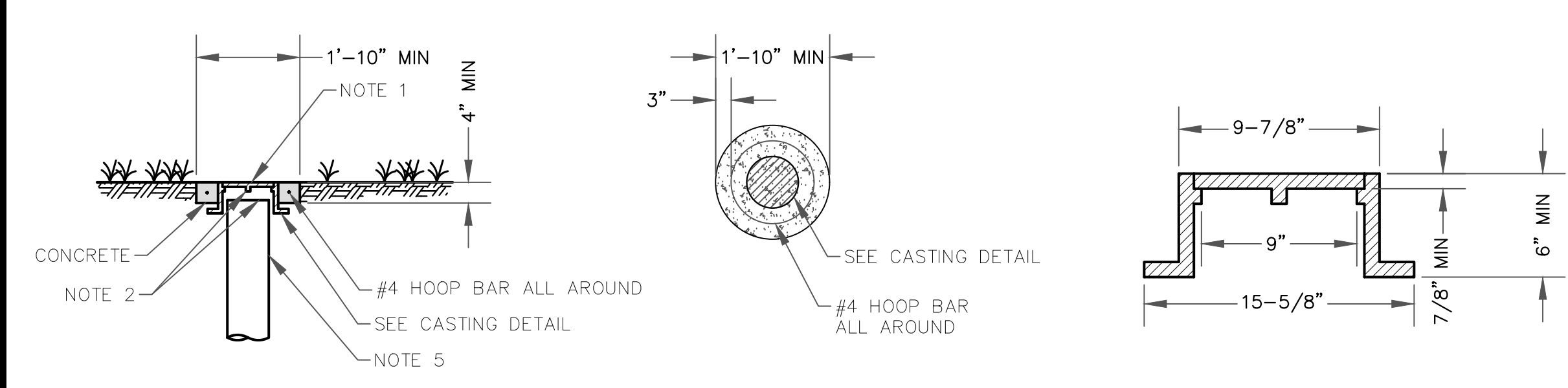


DESIGNED/DRAWN	MJEK
CHECKED	MK
DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS SHEET



- SUBDRAIN NOTES:**
- PERFORATED DRAIN PIPE SHALL HAVE AT LEAST TWO ROWS OF PERFORATIONS 120" APART. PIPE SHALL BE ORIENTED WITH PERFORATIONS FACING DOWN.

SUBDRAIN SECTION



CLEANOUT SECTION

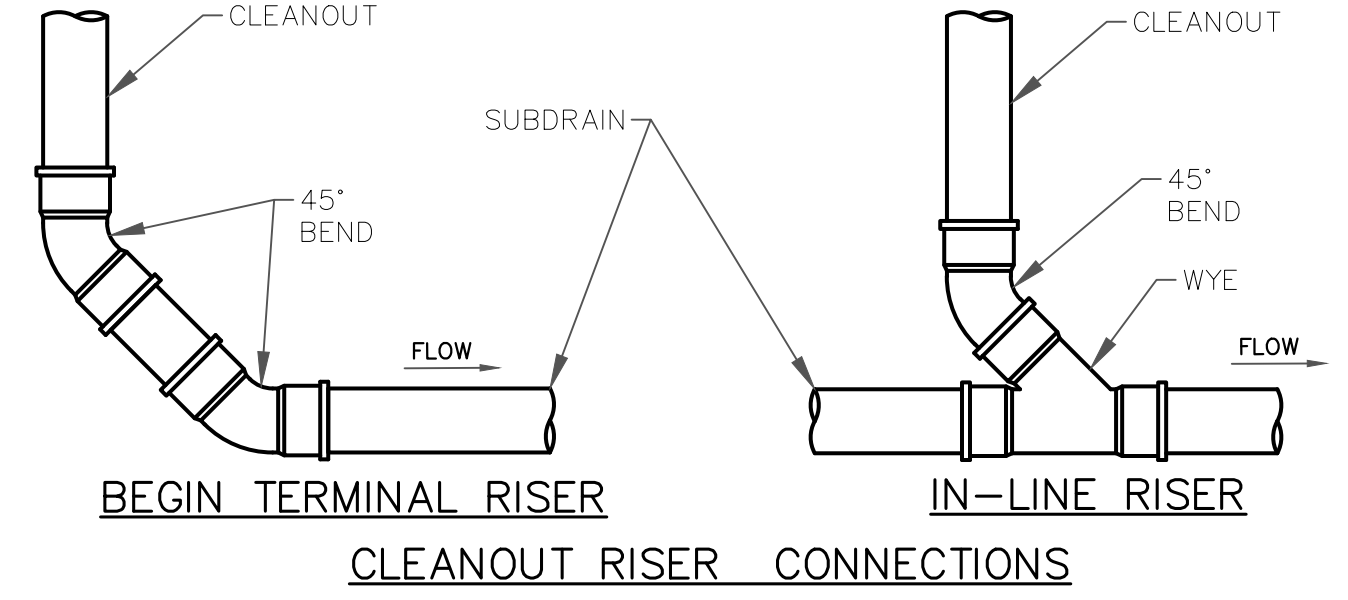
CLEANOUT PLAN

CASTING DETAIL

(DIMENSIONS ARE NOMINAL)
(NOTES 1,4)

SUBDRAIN AND CLEANOUT NOTES:

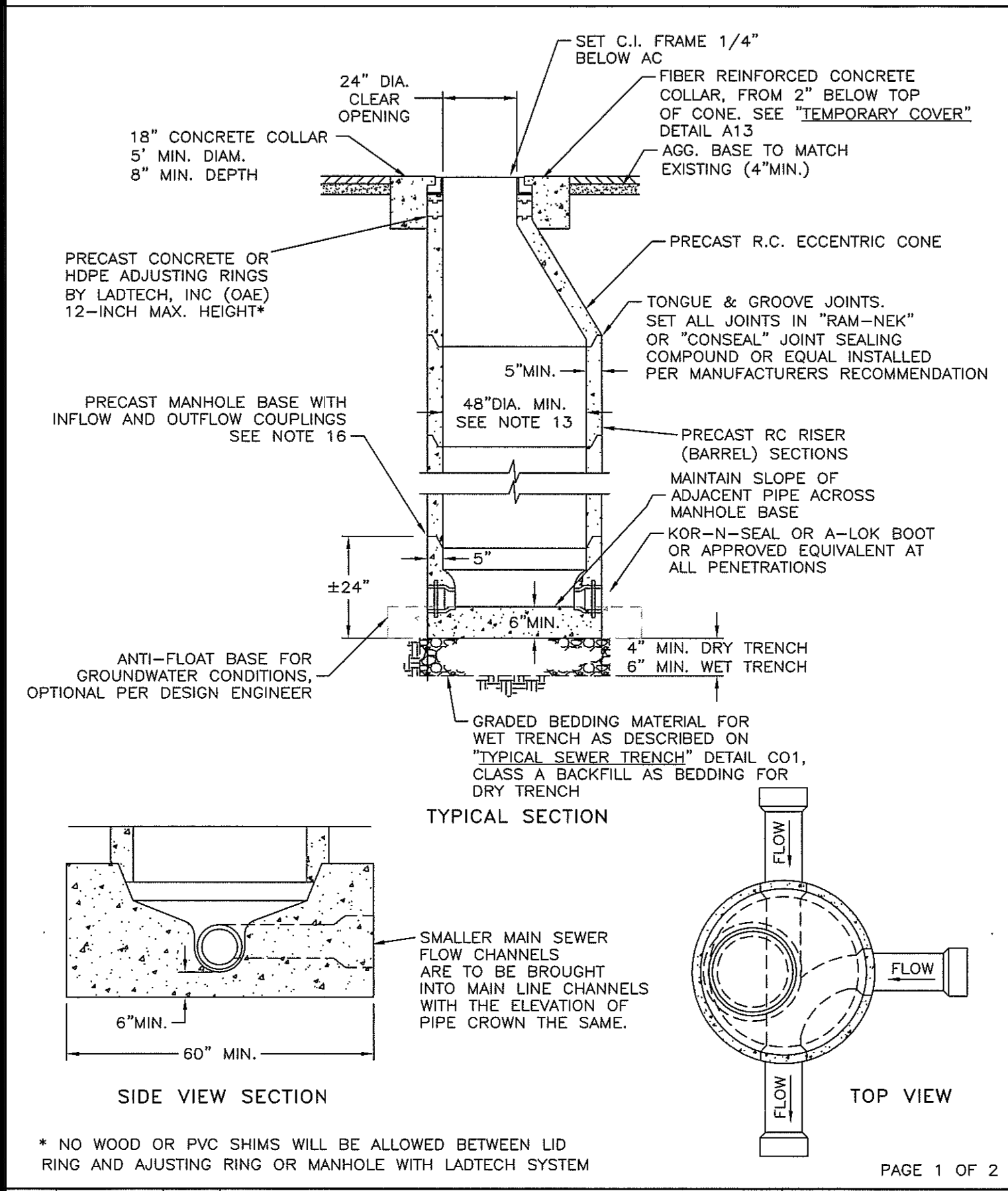
- LIGHT DUTY CASTING. LABEL LID WITH "STORM" OR "STORM C.O."
- DO NOT ALLOW CASTING TO BEAR ON TOP OF RISER PIPE; PROVIDE 2 INCH CLEARANCE, MINIMUM.
- A MANUFACTURED CLEANOUT MAY BE USED IN LIEU OF CLEANOUT DETAIL SHOWN, IF APPROVED BY THE ENGINEER.
- DESIGN IS INTENDED FOR USE IN CONJUNCTION WITH 8 INCH RIGID PERFORATED SUBDRAIN PIPE (SDR 35 OR EQUIVALENT).
- PVC RISER PIPE TO MATCH DIAMETER OF SUBDRAIN (8 INCH).
- PLACE PERFORATIONS DOWN FOR ALL INSTALLATIONS.
- CLEANOUTS TO BE PLACED AT EVERY ANGLE GREATER THAN, OR EQUAL TO 45°, EVERY 150' OF LATERAL, AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE UNIFORM BUILDING CODE. CLEANOUTS INSTALLED AT ANGLES SHALL BE LOCATED ON THE UPSTREAM SIDE OF THE ANGLE.
- CLEANOUT SHALL NOT BE LOCATED WITHIN A ROADSIDE DITCH UNDER ANY CIRCUMSTANCES.



CLEANOUT RISER CONNECTIONS

1 SUBDRAIN CLEANOUT DETAIL
D8 NOT TO SCALE

2 SUBDRAIN DETAIL
D8 NOT TO SCALE



SIDE VIEW SECTION

TOP VIEW

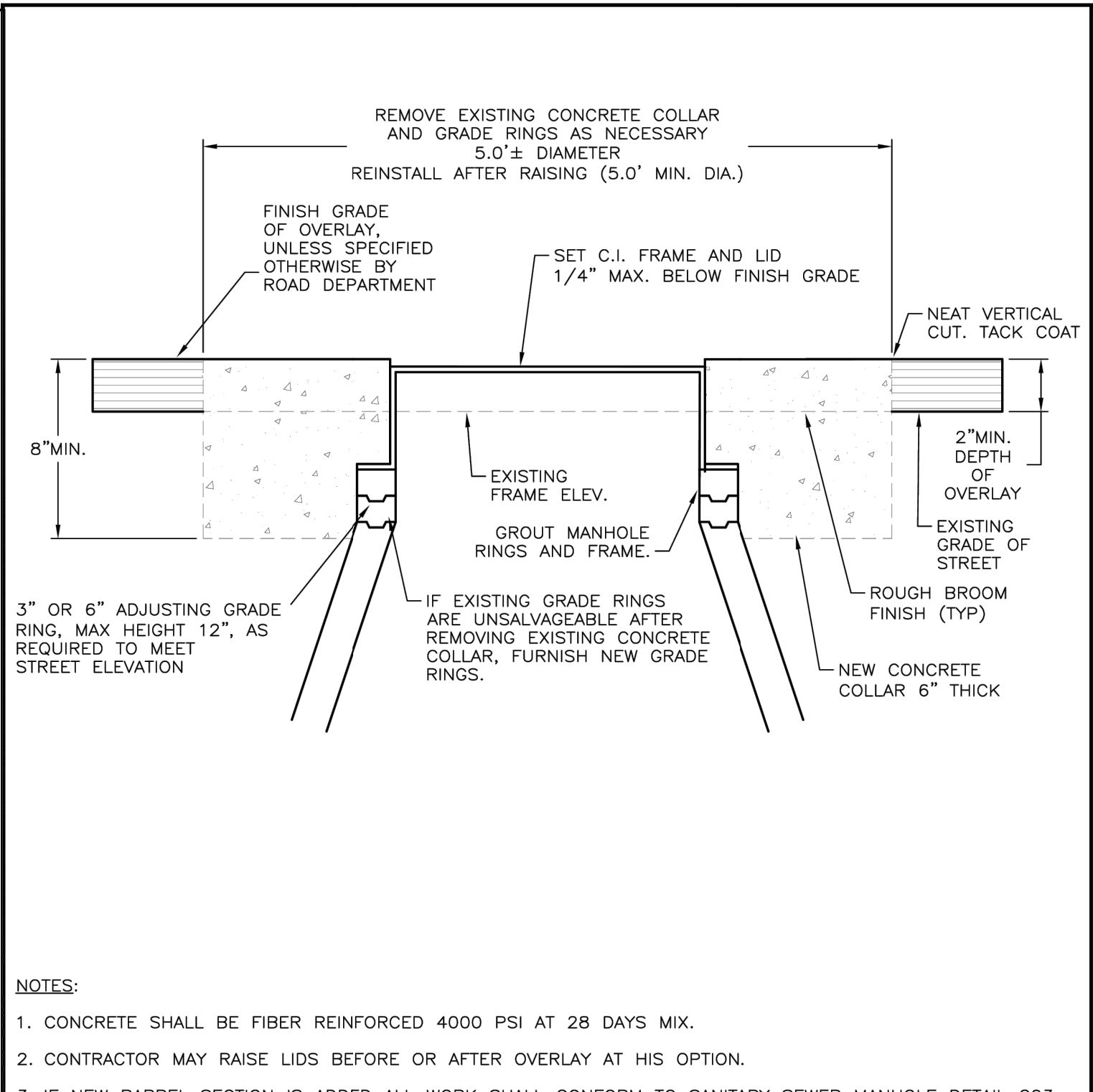
NOTES:

- CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE SEWER UTILITY AND ALL OTHER UTILITIES 48 HOURS PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION SHALL CONFORM TO SEWER UTILITY'S STANDARDS AND NO BACKFILLING WILL BE ALLOWED UNTIL INSPECTED AND APPROVED.
- MANHOLE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE SECTIONS CONFORMING TO ASTM DESIGNATION C478 WET CAST ONLY.
- EXCAVATION FOR MANHOLE MUST BE MADE TO A MINIMUM OF 1-FOOT OUTSIDE OF THE MANHOLE WALL TO PROVIDE FOR ADEQUATE WORKSPACE. SPACE OUTSIDE OF THE MANHOLE SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 12-INCHES IN DEPTH. EACH LAYER SHALL BE THOROUGHLY COMPACTED TO THE DENSITY OF THE EARTH IN THE ADJACENT TRENCH SECTIONS. (MIN. 90% IN EXISTING OR PROPOSED STREET OR ALLEY RIGHTS-OF-WAY).
- CAST IRON FRAME AND COVER SHALL BE 24-INCH DIAMETER (CLEAR OPENING) AND SHALL BE MANUFACTURED FROM GRAY CAST IRON CONFORMING TO ASTM DESIGNATION: A 48, CLASS 30 AND DESIGNED FOR A MINIMUM HS-20 TRAFFIC LOADING. COVERS AND FRAMES SHALL BE MATCH-MARKED IN PAIRS AND SEATING SURFACES MACHINED SO THAT COVER IS NON-ROCKING. COVERS SHALL HAVE ONE PICK HOLE, AND ONE CENTRALLY LOCATED 1-INCH DIG HOLE. COVERS SHALL HAVE NO "THRU" HOLES.
- ALL BASES MUST BE PRECAST UNLESS OTHERWISE APPROVED BY THE SEWER UTILITY.
- CONCRETE FOR CAST-IN-PLACE MANHOLE BASE, IF APPROVED BY THE SEWER UTILITY FOR USE, SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- SEWER STUBS FOR FUTURE EXTENSION SHALL BE NO MORE THAN 5- FEET IN LENGTH.
- THE TOP OF INCOMING LATERAL SEWERS SHALL ENTER THE MANHOLE AT AN ELEVATION EQUAL TO THE TOP OF THE MAIN LINE. EXCEPTIONS ONLY BY PRIOR SEWER UTILITY APPROVAL.
- INVERTS SHALL BE FORMED DIRECTLY IN CONCRETE OF MANHOLE BASE AND SHALL BE SMOOTH AND ACCURATELY SHAPED TO A SEMI-CIRCULAR BOTTOM CONFORMING TO THE INSIDE OF THE ADJACENT SEWER SECTION. MAINTAIN SLOPE OF ADJACENT PIPELINE ACROSS THE MANHOLE BASE.
- WHERE MANHOLES ARE NOT LOCATED IN STREETS, PLACE TOP OF MANHOLE 8-INCHES ABOVE THE EXISTING GROUND UNLESS OTHERWISE REQUIRED BY THE SEWER UTILITY. INSTALL THE CONCRETE COLLAR FROM A POINT 6-INCHES OUTSIDE THE TOP OF THE COVER FRAME AND EXTEND A MINIMUM OF 12-INCHES BELOW THE SURROUNDING GROUND SURFACE. TAPER THE CONCRETE COLLAR FROM TOP TO BOTTOM AT A 1:1 SLOPE OR FLATTER.
- PROVIDE 60-INCH MINIMUM DIAMETER MANHOLE FOR PIPES LARGER THAN 15-INCH DIAMETER.
- COAT EXTERIOR OF MANHOLE WHERE GROUNDWATER CONDITIONS ARE PRESENT AS APPROVED BY SEWER UTILITY.
- ALL MANHOLES SHALL BE VACUUM TESTED FROM TOP OF CONE PRIOR TO PAVING.
- POLYMER MANHOLES SHALL BE REQUIRED AT ALL FORCE MAIN OUTLETS. POLYMER MANHOLES SHALL BE INSTALLED DOWNSTREAM OF MANHOLE WHERE FORCE MAIN CONVERTS TO GRAVITY FLOW. ONE POLYMER MANHOLE FOR EVERY 1-INCH DIAMETER SIZE OF THE FORCE MAIN.
- PIPE INVERT ELEVATIONS SHALL BE A MINIMUM OF 0.1 FEET ABOVE OUTFLOW PIPE ELEVATIONS FOR STRAIGHT FLOW THROUGH OR 0.2 FEET FOR 90 DEGREE BEND FLOW THROUGH.

PAGE 2 OF 2

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION:
				DOUGLAS COUNTY
				DATE: DEC. 2018
				DWG: C03

4 SANITARY SEWER MANHOLE DETAIL B
D8 NOT TO SCALE



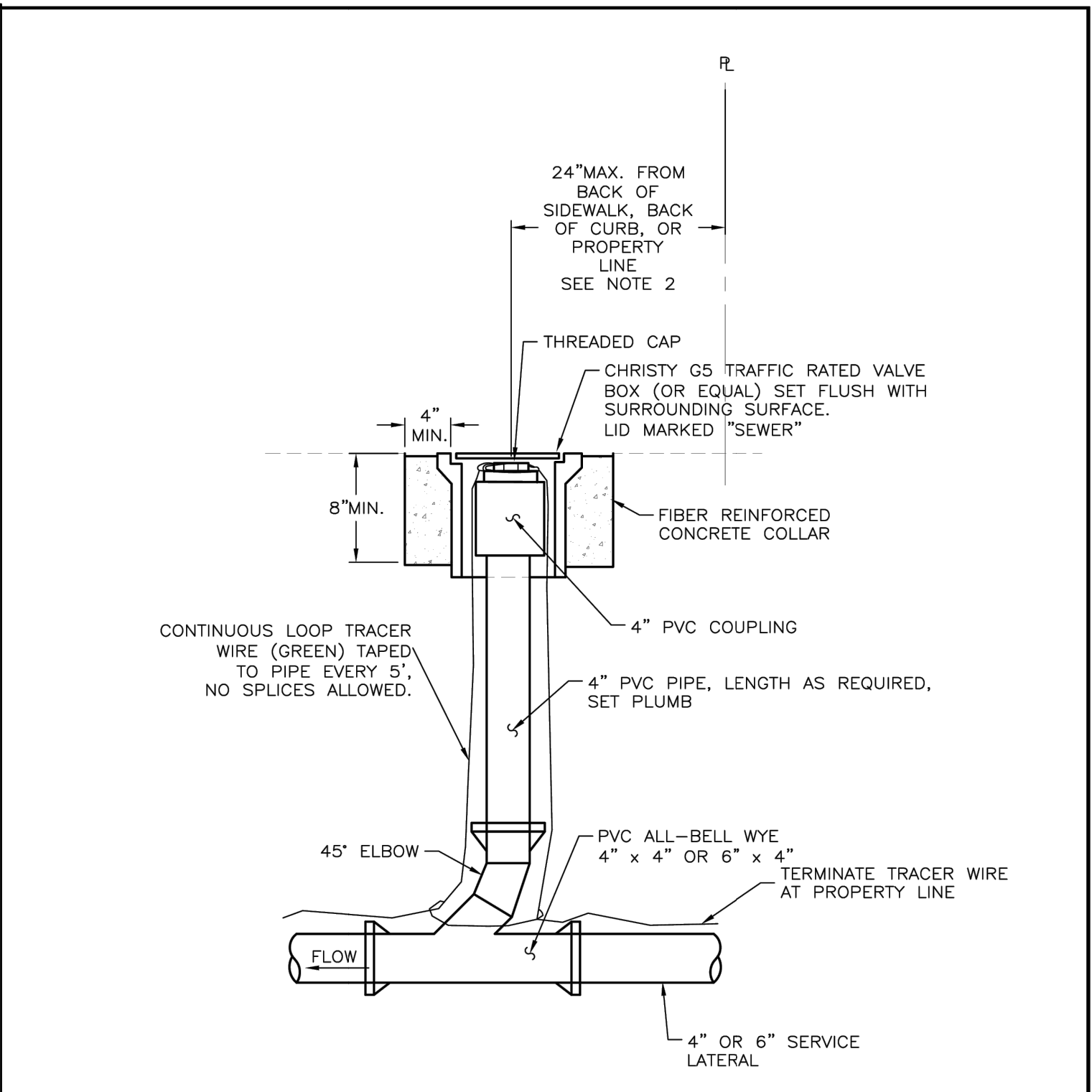
NOTES:

- CONCRETE SHALL BE FIBER REINFORCED 4000 PSI AT 28 DAYS MIX.
- CONTRACTOR MAY RAISE LIDS BEFORE OR AFTER OVERLAY AT HIS OPTION.
- IF NEW BARREL SECTION IS ADDED ALL WORK SHALL CONFORM TO SANITARY SEWER MANHOLE DETAIL C03.
- CONTRACTOR SHALL MAINTAIN MANHOLE AND SEWER LINES FREE OF DEBRIS AT ALL TIMES.
- GRADE RINGS SHALL BE PRECAST CONCRETE OR HDPE LADTECH INSTALLED PER MANUFACTURER'S SPECIFICATIONS. WOOD SHIMS ARE NOT ALLOWED WITH LADTECH SYSTEMS.
- VACUUM TESTING NOT REQUIRED ON EXISTING MANHOLES.

PAGE 1 OF 1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION:
				DOUGLAS COUNTY
				DATE: JULY 2017
				DWG: C05

5 SANITARY SEWER MANHOLE RAISING
D8 NOT TO SCALE



NOTE: ALL JOINTS AND CONNECTIONS SHALL BE WATERTIGHT.

NOTES:

- CLEANOUTS TO BE PLACED AT EVERY ANGLE GREATER THAN, OR EQUAL TO 45°, EVERY 150' OF LATERAL, AND WITHIN 5' OF BUILDING AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE UNIFORM BUILDING CODE. CLEANOUTS INSTALLED AT ANGLES SHALL BE LOCATED ON THE UPSTREAM SIDE OF THE ANGLE. CLEANOUTS SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE ANGLE.
- CLEANOUT SHALL NOT BE LOCATED WITHIN A ROADSIDE DITCH UNDER ANY CIRCUMSTANCES.

PAGE 1 OF 1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION:
				DOUGLAS COUNTY
				DATE: JULY 2017
				DWG: C07

6 SEWER LATERAL CLEANOUT
D8 NOT TO SCALE

3 SANITARY SEWER MANHOLE DETAIL A
D8 NOT TO SCALE

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BILL OF MATERIALS, RCP HDPE CMP

PIPE SIZE INCH	SINGLE ONE GRATE				DOUBLE TWO GRATES				TRIPLE THREE GRATES			
	#CONCRETE C.Y.	#REBAR LB.	#STEEL LB.	#REBAR LB.	#CONCRETE C.Y.	#REBAR LB.	#STEEL LB.	#REBAR LB.	#CONCRETE C.Y.	#REBAR LB.	#STEEL LB.	#REBAR LB.
18	2.00	0.71	0.39	36	1.00	0.36	0.20	18	2.00	0.71	0.39	36
24	3.00	1.06	0.58	54	1.50	0.54	0.30	27	3.00	1.06	0.58	54
30	4.00	1.38	0.78	72	2.00	0.72	0.40	36	4.00	1.38	0.78	72
36	4.00	1.50	0.87	72	2.00	0.72	0.40	36	4.00	1.50	0.87	72
42	5.00	1.71	0.99	90	2.50	0.90	0.45	45	5.00	1.71	0.99	90
48	5.00	1.84	1.09	90	2.50	0.90	0.45	45	5.00	1.84	1.09	90

TABLE OF DIMENSIONS, RCP HDPE CMP

PIPE SIZE INCH	FRAME ANGLE	FRAME ANGLE	FRAME ANGLE	FRAME ANGLE
INCH	INCH	INCH	INCH	INCH
18	2"	2"	2"	2"
24	2"	2"	2"	2"
30	2"	2"	2"	2"
36	2"	2"	2"	2"
42	2"	2"	2"	2"
48	2"	2"	2"	2"

Drop Inlet Type 3 Detail A

Drop Inlet Type 3 Detail B

1 DROP INLET TYPE 2 NOT TO SCALE

2 DROP INLET TYPE 3 DETAIL A NOT TO SCALE

3 DROP INLET TYPE 3 DETAIL B NOT TO SCALE

HDPE PIPE CONNECTION DETAILS

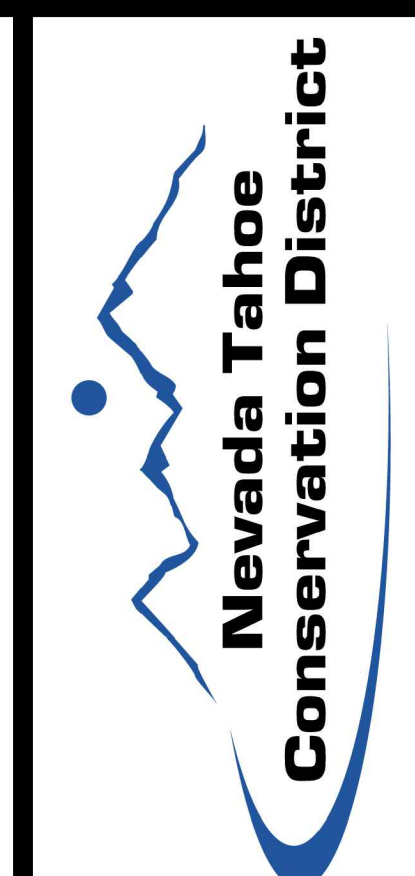
4 HDPE CONNECTION DETAIL NOT TO SCALE

CONCRETE ENCASEMENT DETAIL

5 CONCRETE ENCASEMENT DETAIL NOT TO SCALE

RIPRAP APRON DETAIL

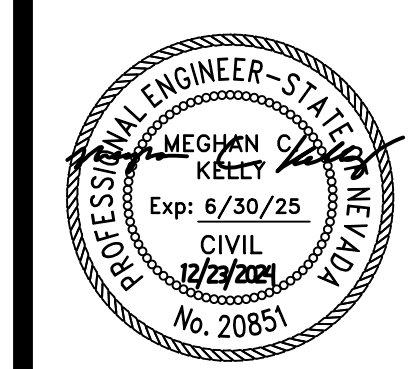
6 RIPRAP APRON DETAIL NOT TO SCALE



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REVISIONS

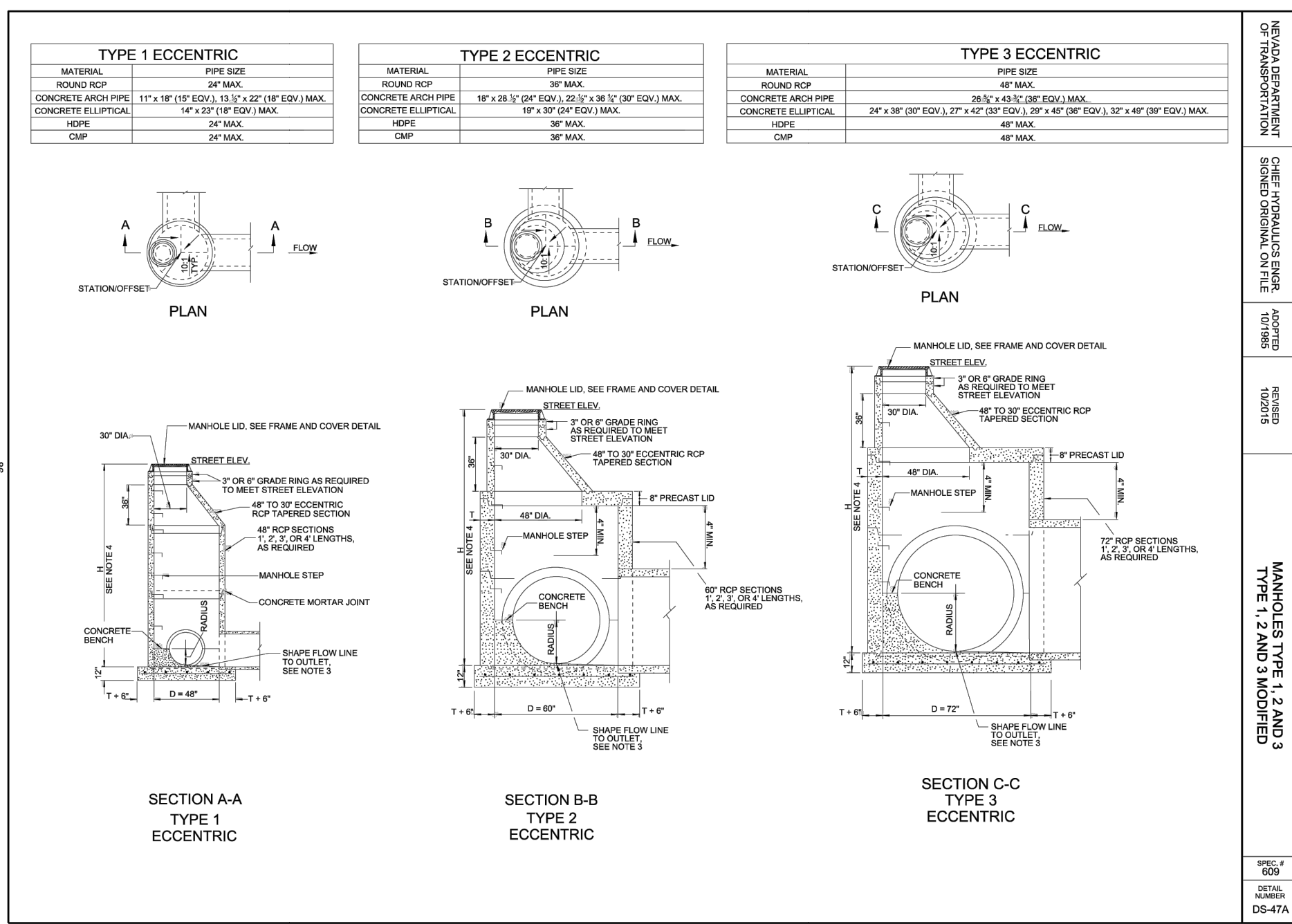
DETAILS - DRAINAGE
KAHLE DRIVE COMPLETE STREETS PROJECT



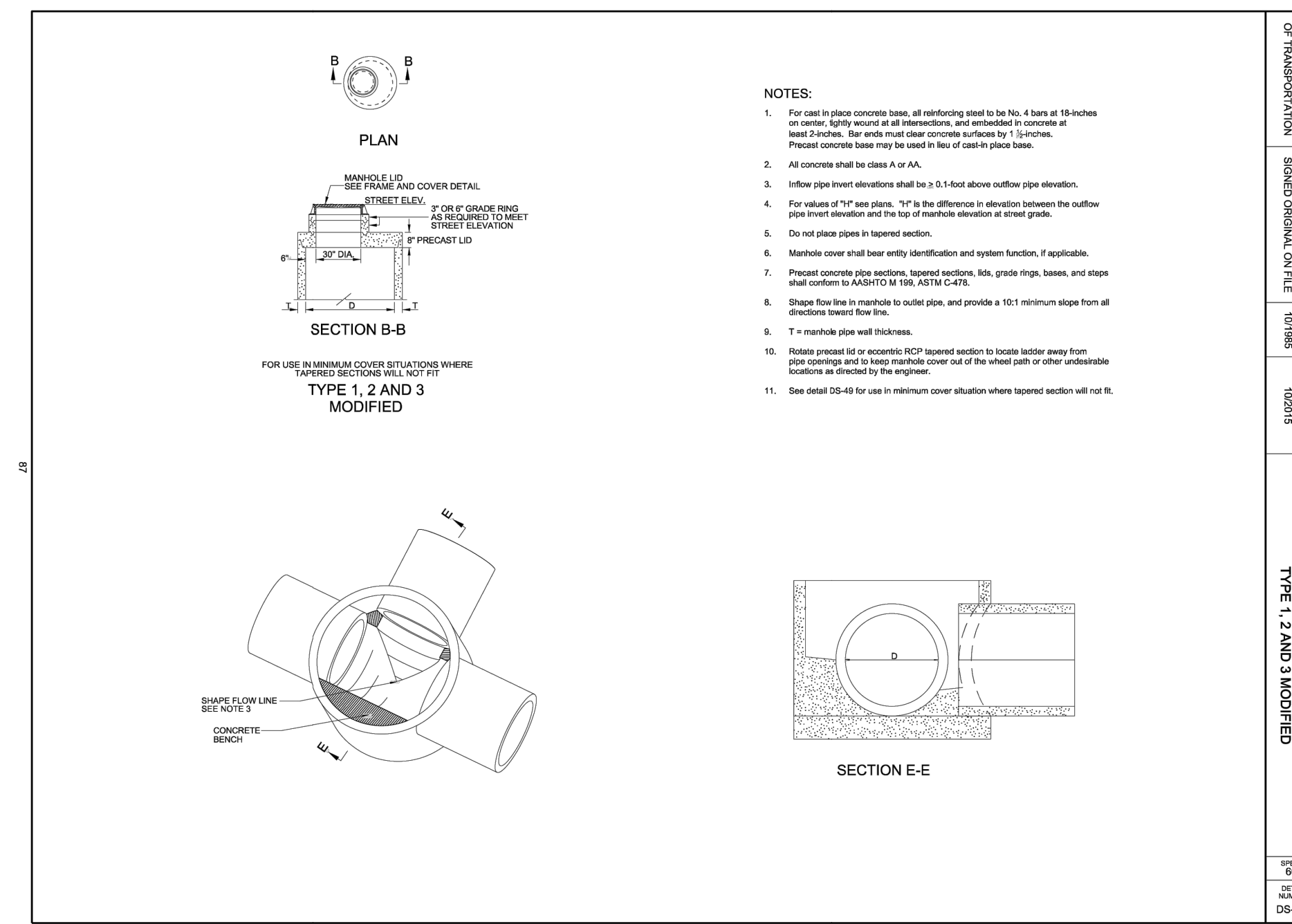
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KAHLE DRIVE
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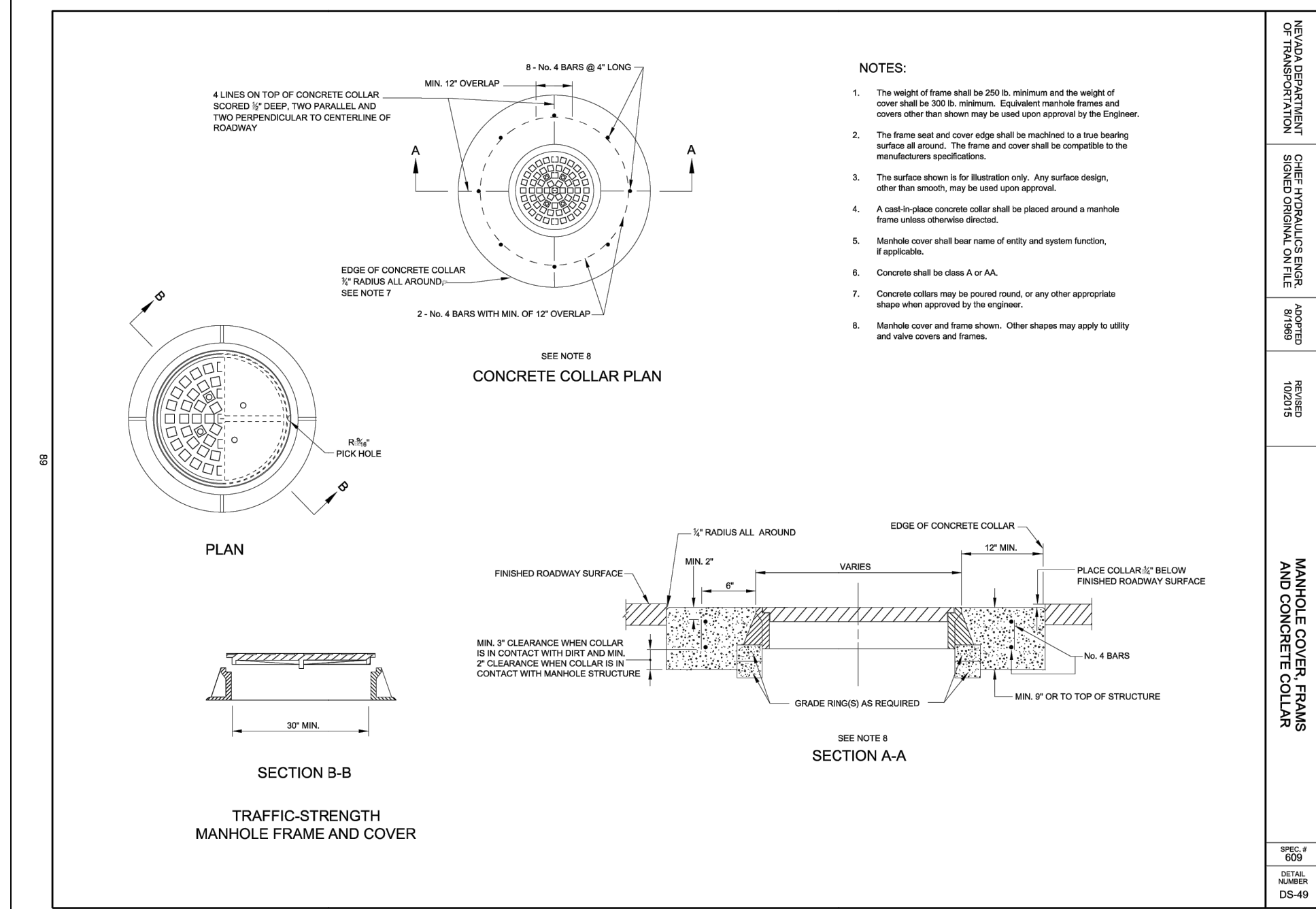
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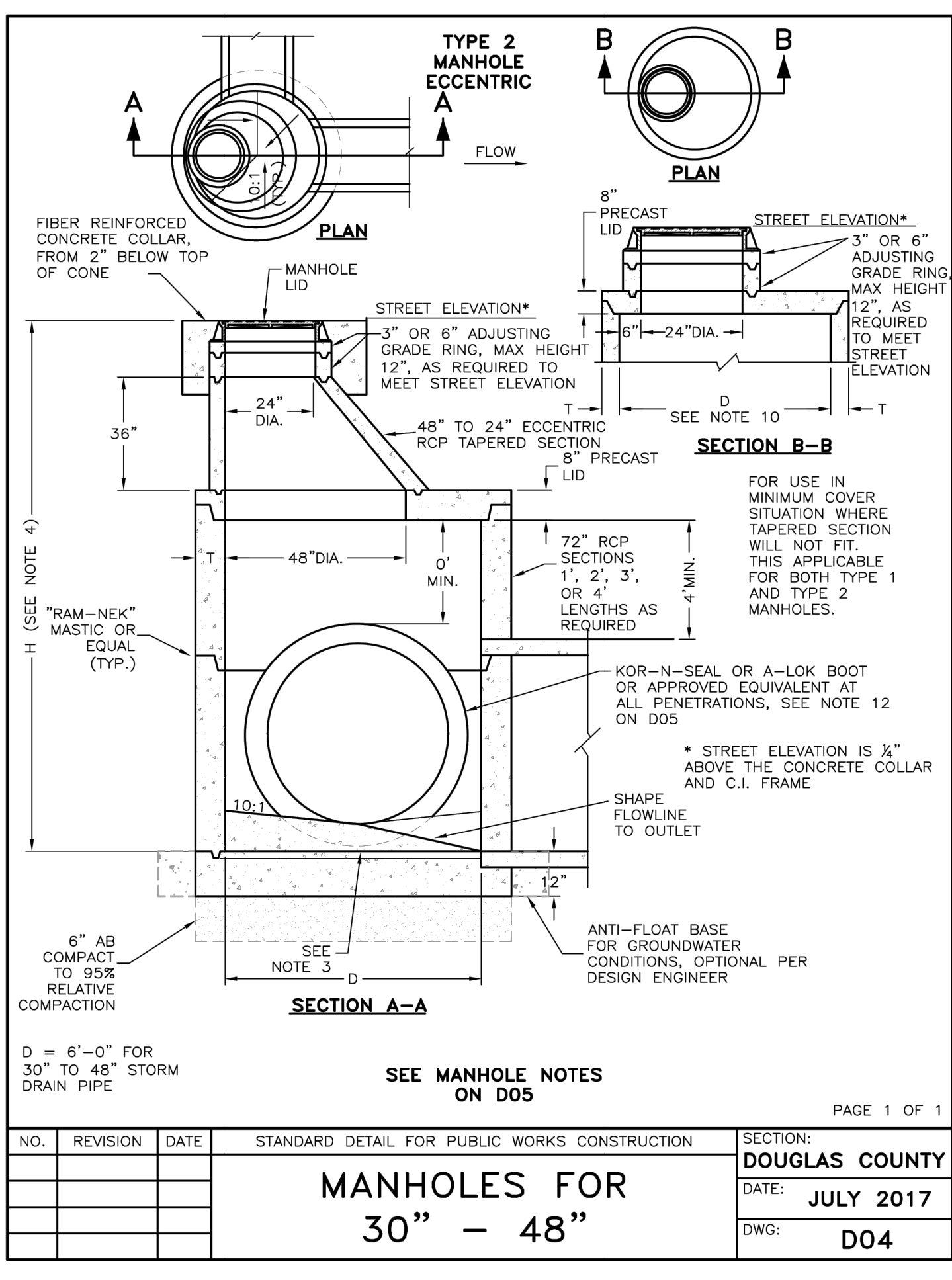
1 MANHOLE TYPE 1,2,3 AND TYPE 1,2,3 MODIFIED DETAIL A
D10 NOT TO SCALE



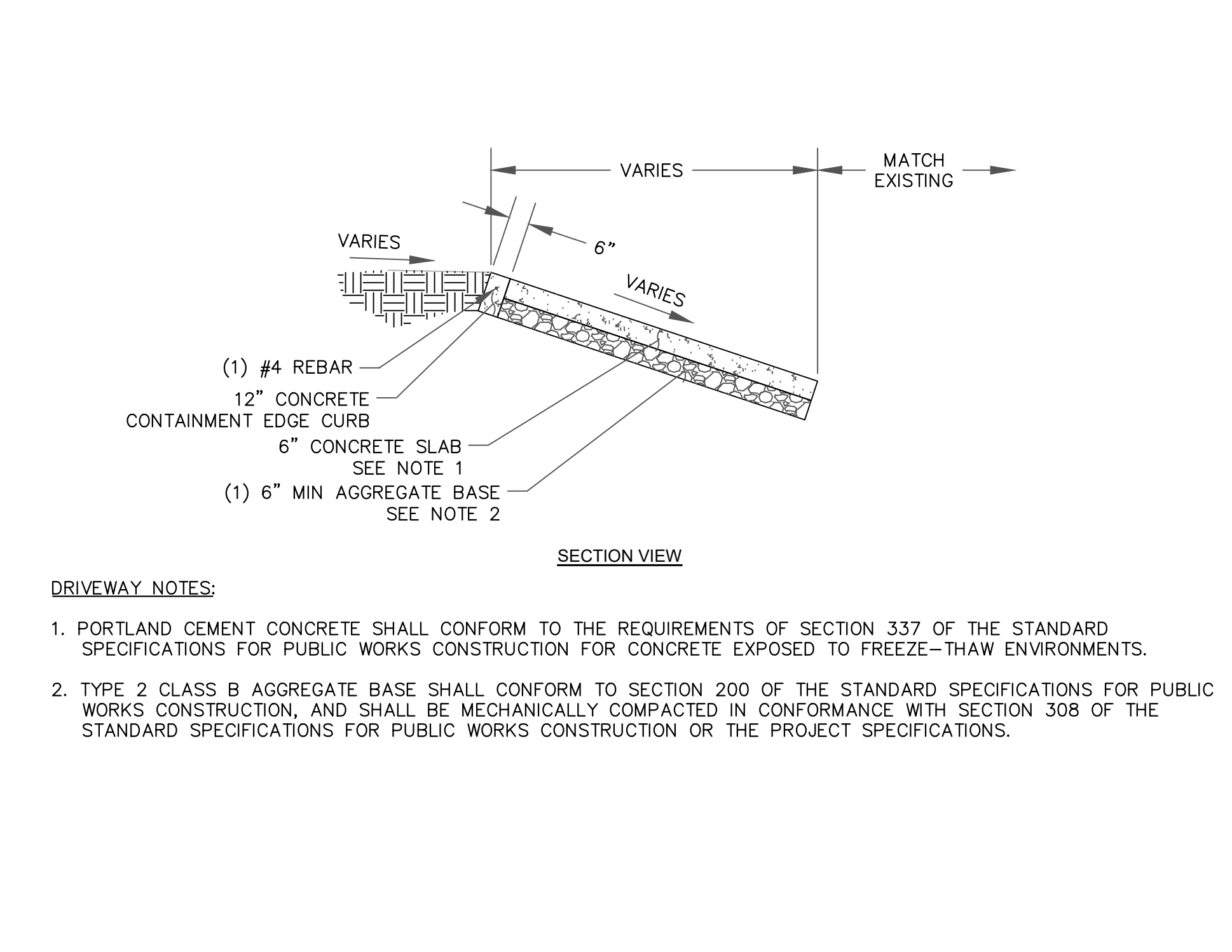
2 MANHOLE TYPE 1,2,3 AND TYPE 1,2,3 MODIFIED DETAIL B
D10 NOT TO SCALE



3 NDOT MANHOLE COVER, FRAMES, AND COLLAR
D10 NOT TO SCALE

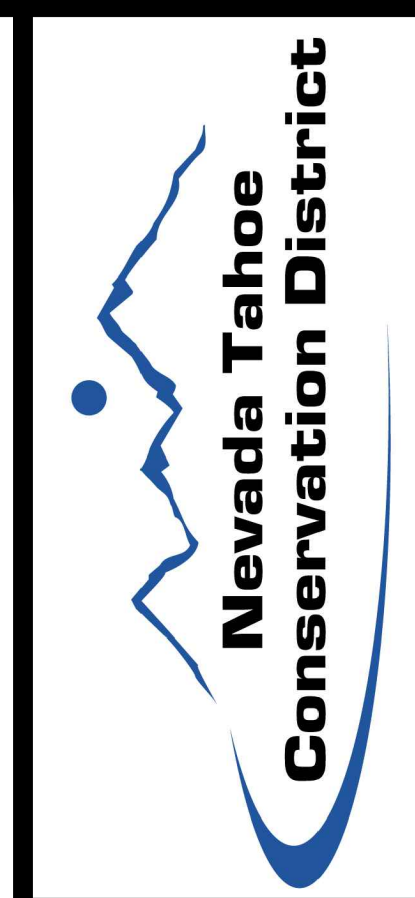


4 30 INCH TO 48 INCH MANHOLES
D10 NOT TO SCALE



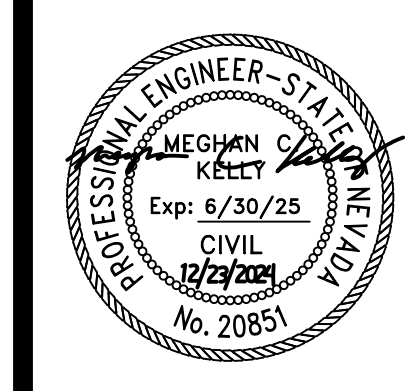
5 CONCRETE CONTAINMENT CURB & CONCRETE SLAB DETAIL
D10 NOT TO SCALE

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
				DATE: JULY 2017
				DWG: D04



NO.	DATE	BY	DESCRIPTION
X	XX/XXXX/XX	XXX	DESCRIPTION

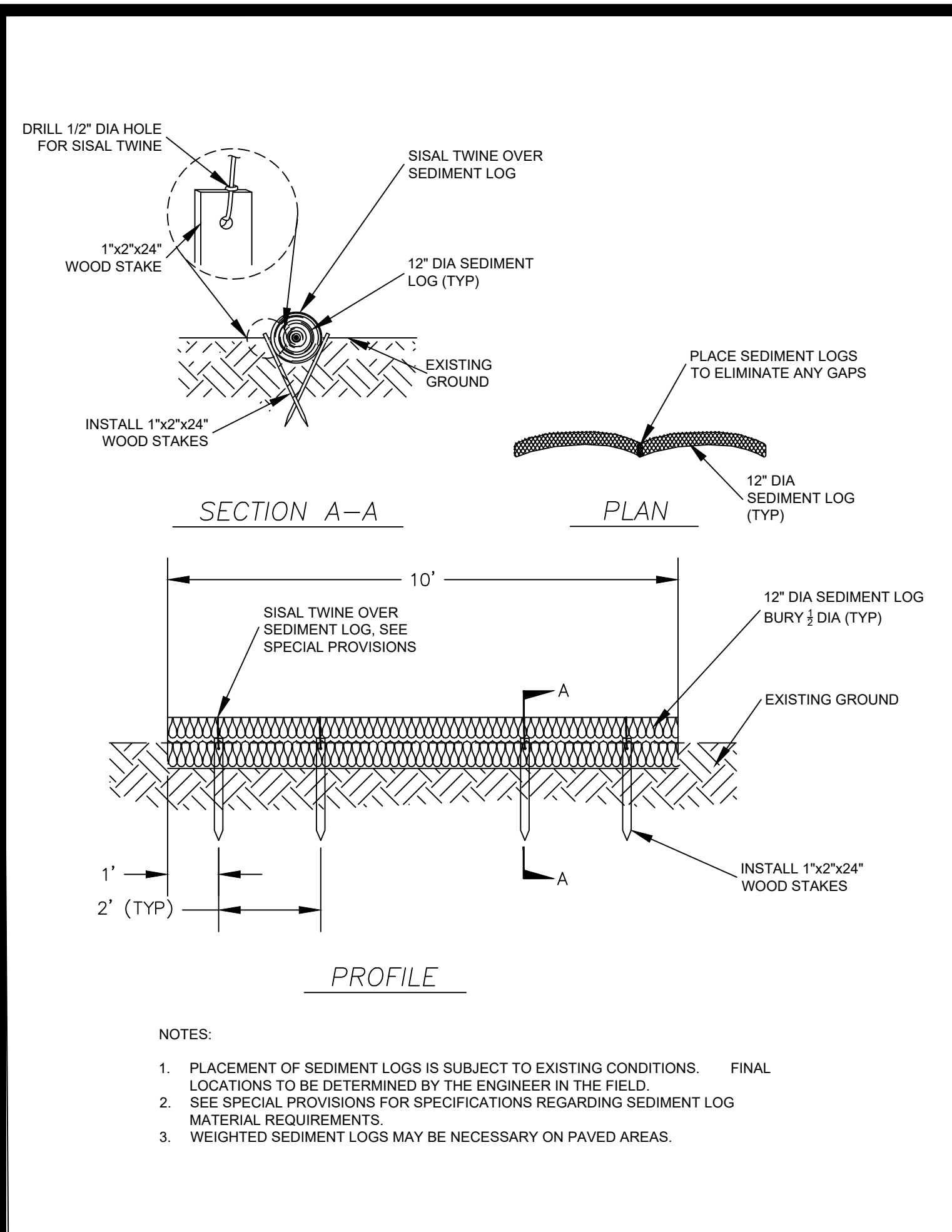
DETAILS - DRAINAGE
KAHLE DRIVE COMPLETE STREETS PROJECT



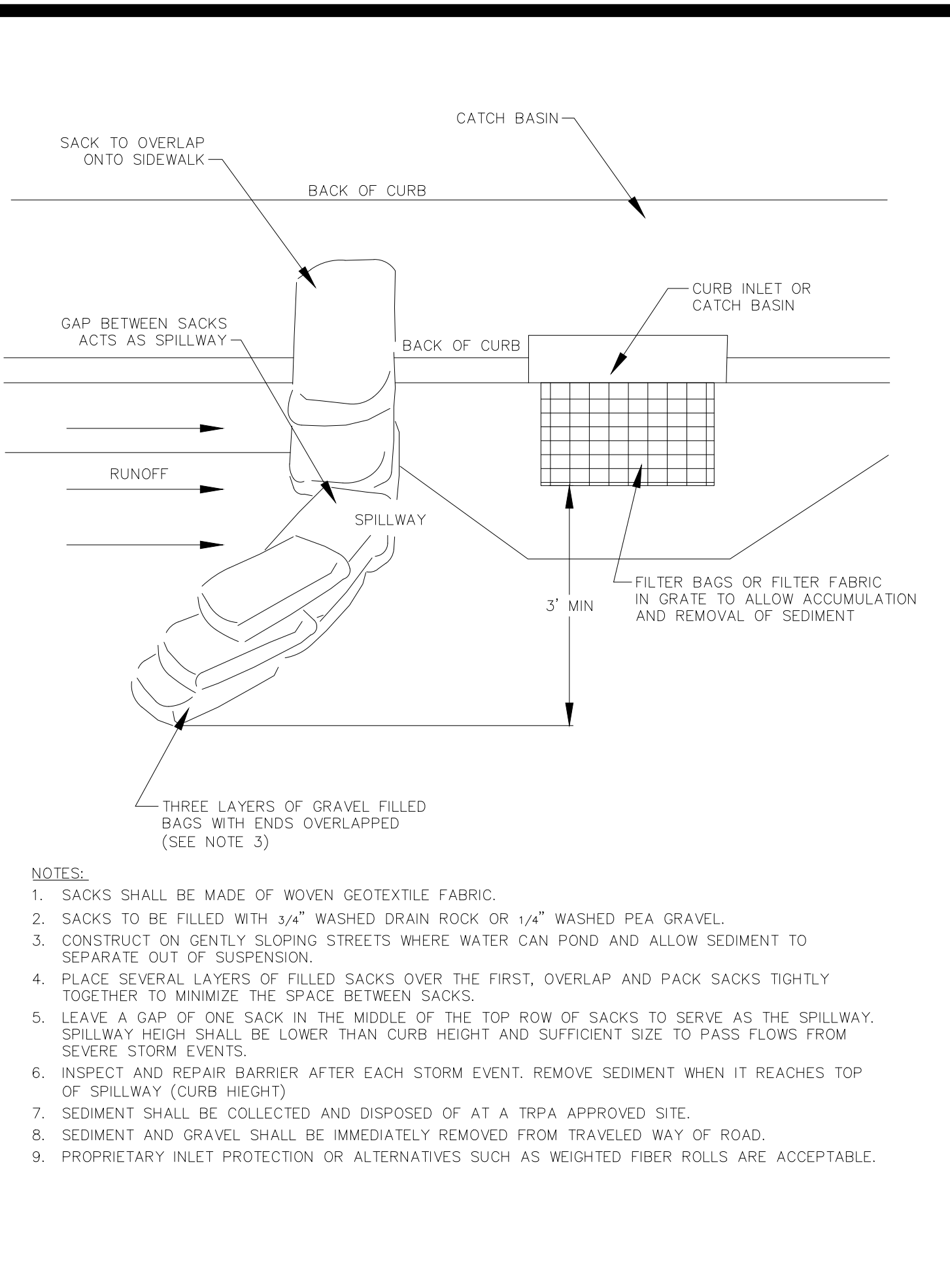
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DATE 11/2024
SCALE AS SHOWN
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SHEET



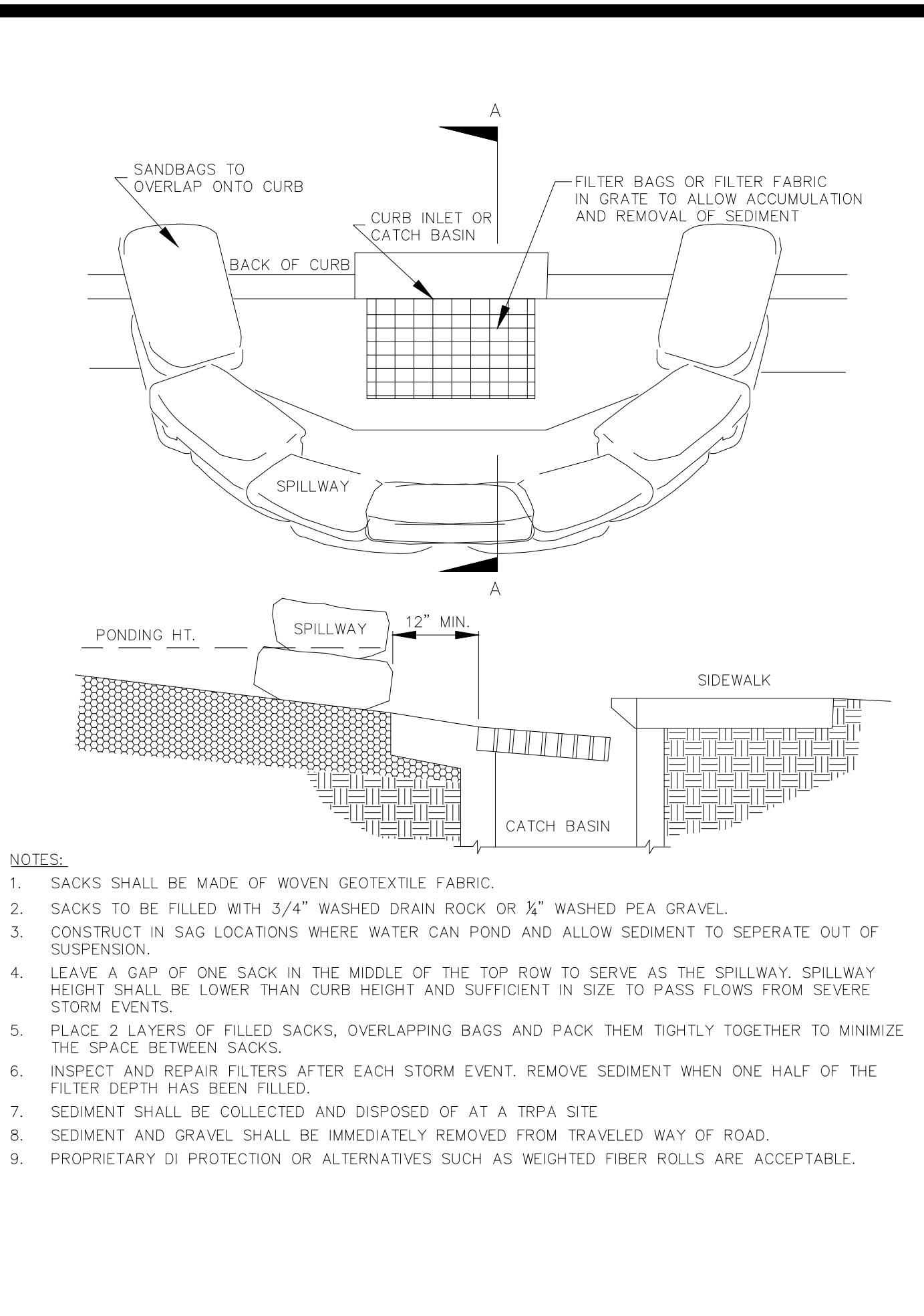
D10
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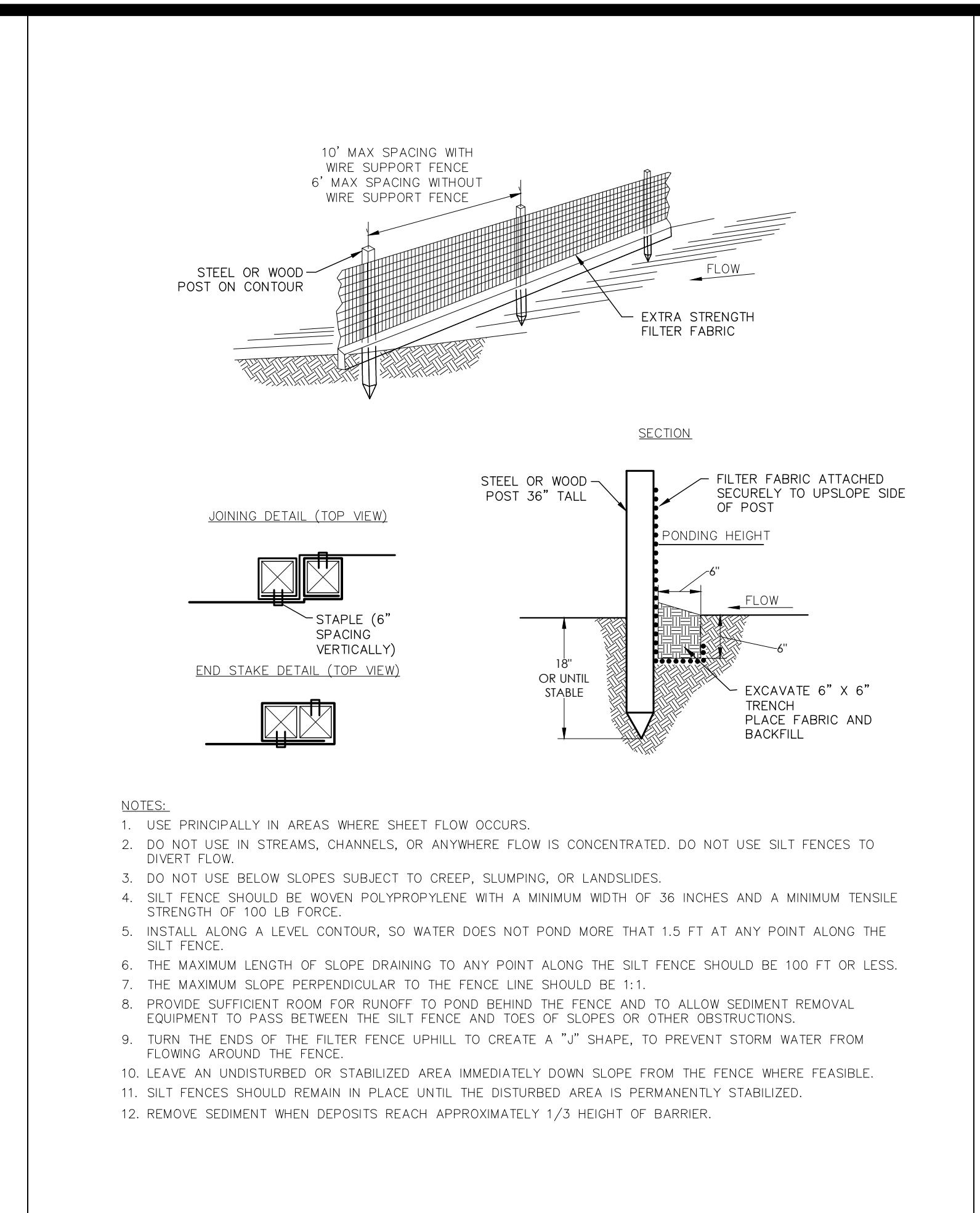
1 SEDIMENT LOG
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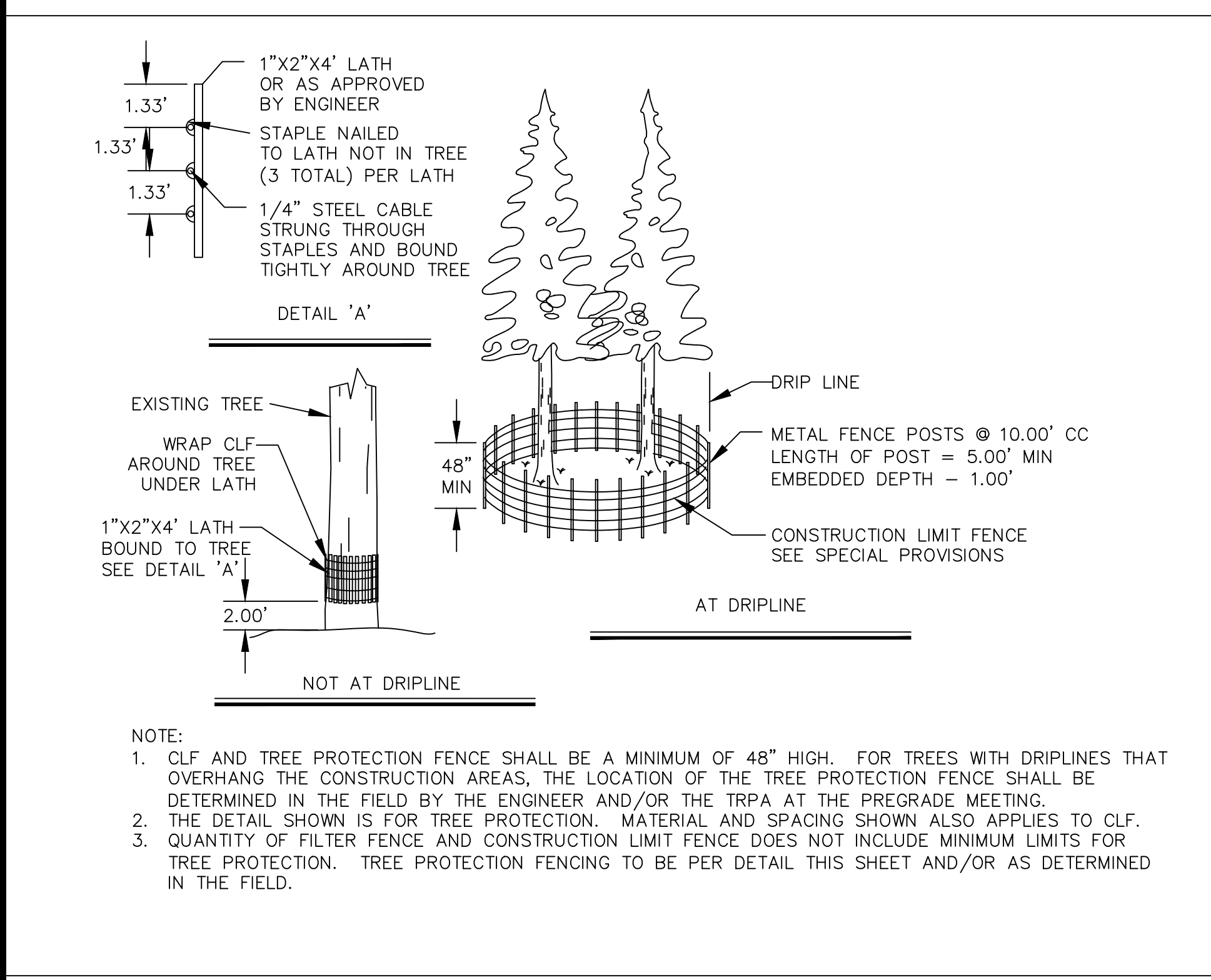
2 INLET PROTECTION
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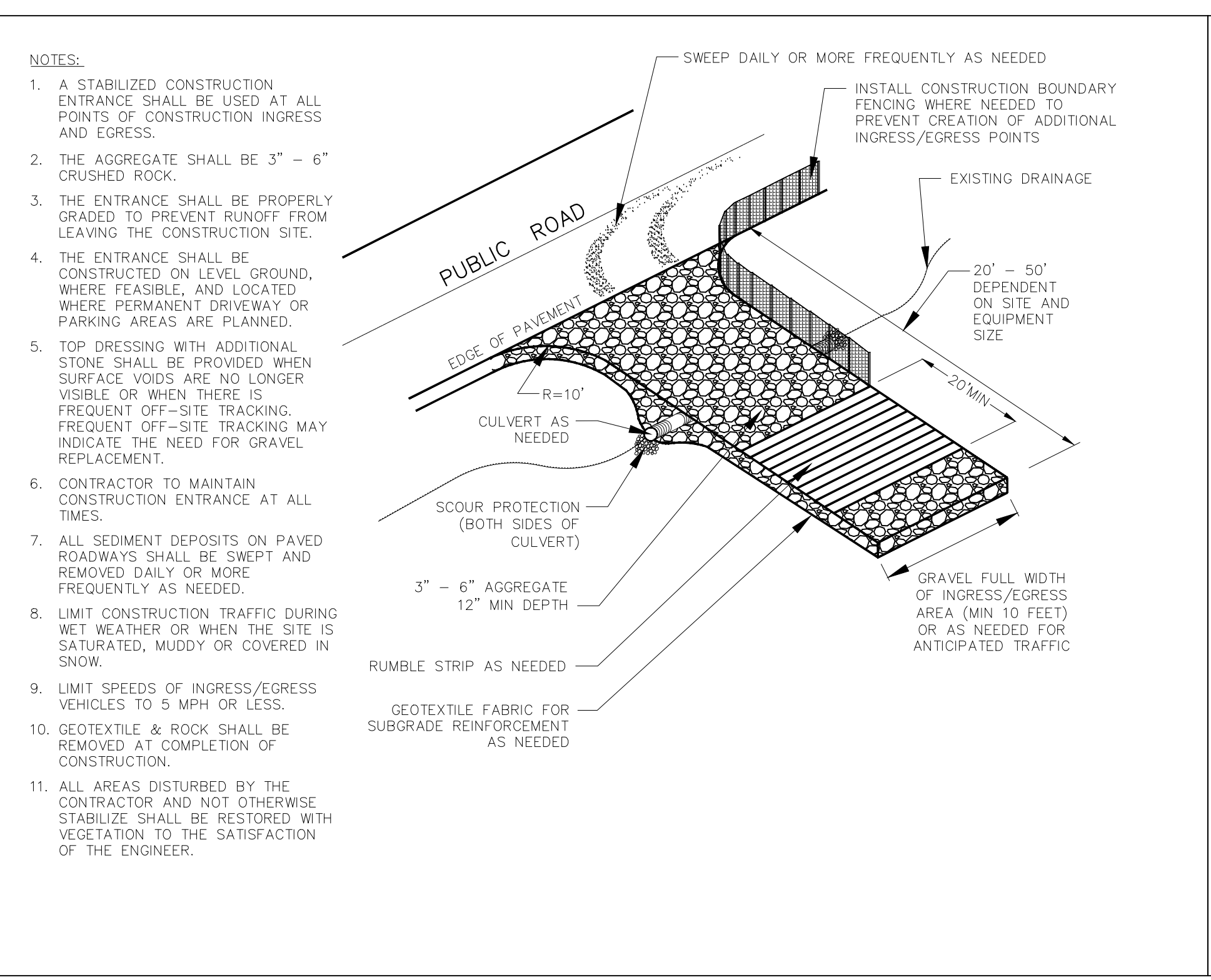
3 INLET PROTECTION - SAG
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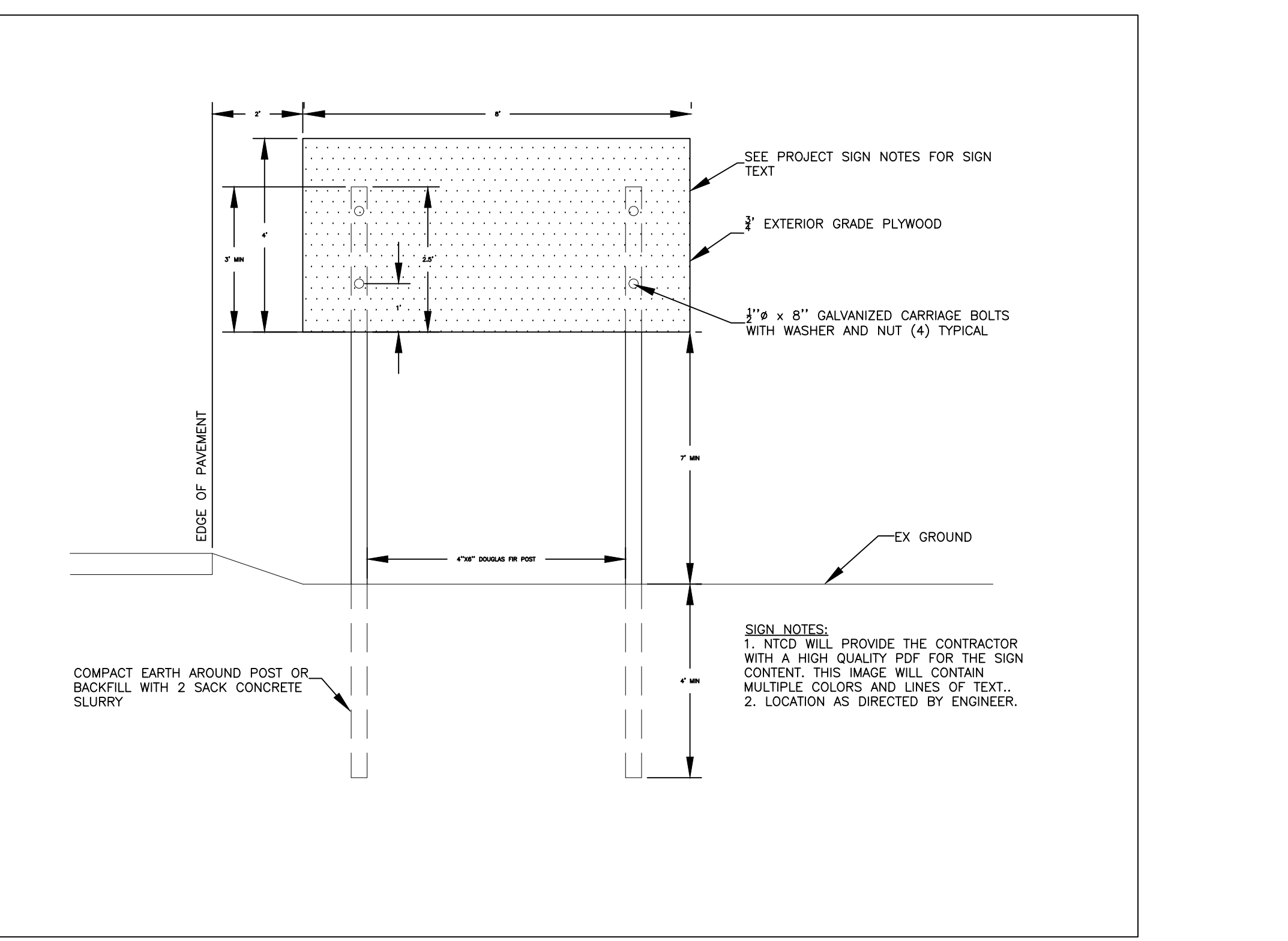
4 SILT FENCE
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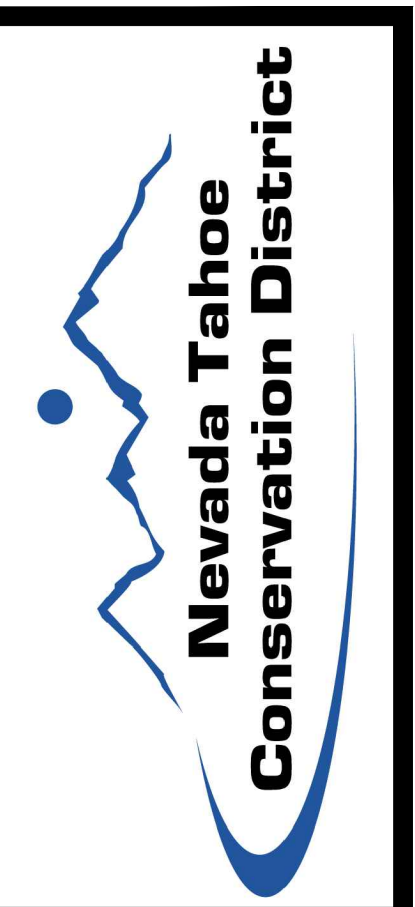
5 TREE PROTECTION
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6 CONSTRUCTION ENTRANCE
D11 NOT TO SCALE

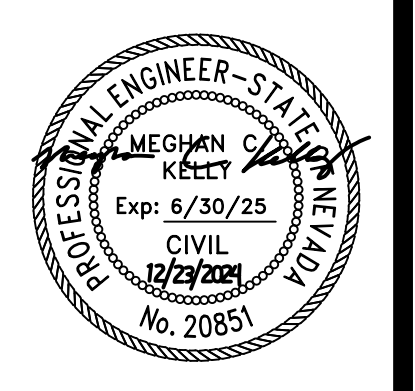


7 PROJECT SIGN
D11 NOT TO SCALE



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NO.	DESCRIPTION

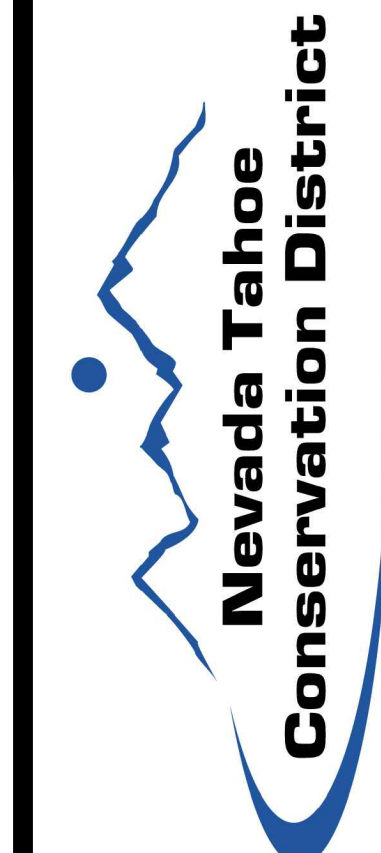
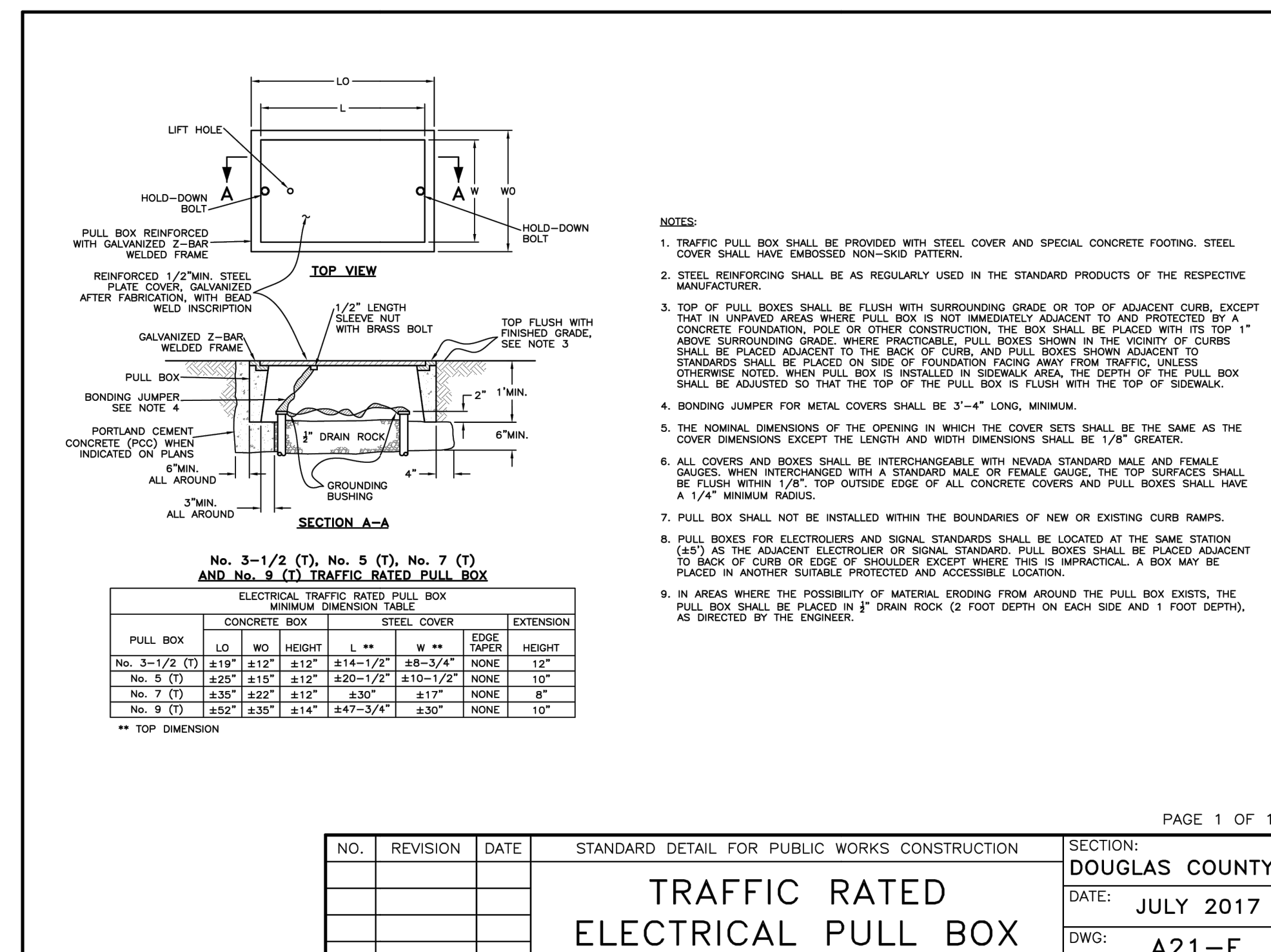
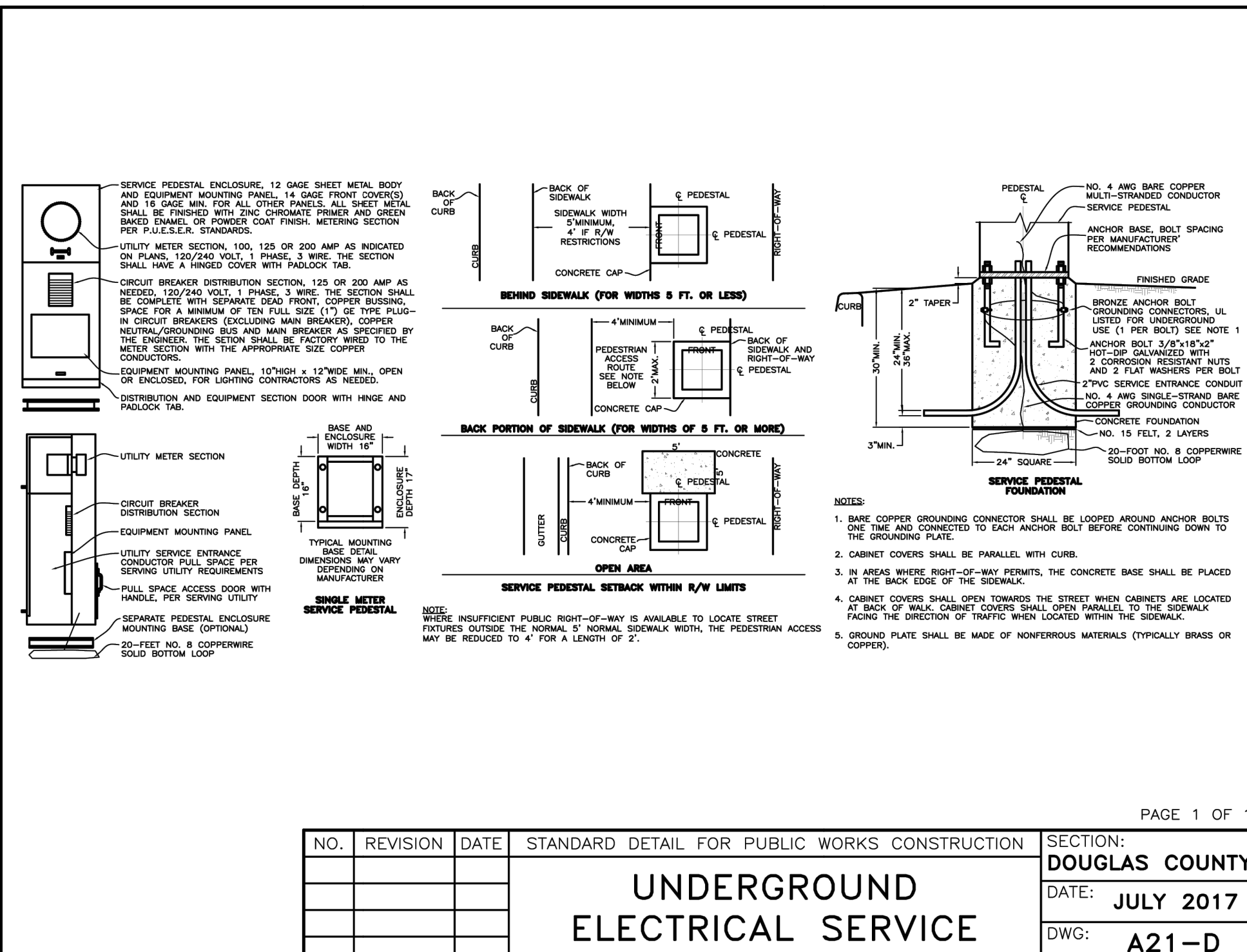
DETAILS - EROSION CONTROL
 KAHLE DRIVE COMPLETE STREETS PROJECT



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DATE	11/2024
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PROJECT	KAHLE DRIVE COMPLETE STREETS
SHEET	D11

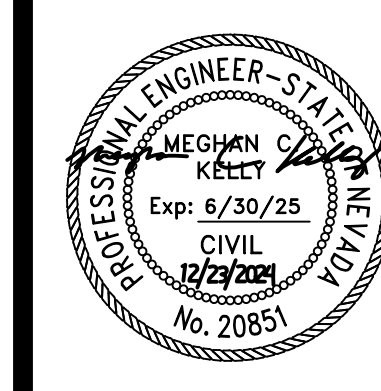
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DETAILS - ELECTRICAL
KAHLE DRIVE COMPLETE STREETS PROJECT



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DATE	11/2024
SCALE	AS SHOWN
PROJECT	KAHLE DRIVE COMPLETE STREETS
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LEGEND:

	TOPSOIL (BALVAGE) (SEE NOTE 16)	
	NATIVE SOLE/EXISTING LANDSCAPING	
	CURB, GUTTER, & SIDEWALK	
	LIMITS OF REMOVAL & REPLACEMENT OF SIDEWALK	

NOTES:

- Remove existing surface material and replace with materials as shown in the summary of base and surface quantities. Construction requirements for that material type and location.
- Recompact existing base material around trench to meet compaction requirements for that material type and location.
- See plan sheets for key-in detail if needed.
- Longitudinal trenching in shoulder: if shoulder is 4-feet wide or less, remove all surface material from the edge of cut to shoulder, strip and replace or as directed by the Engineer (see note 1).
- If pavement saw cut is within 2-feet of an existing pavement edge or existing pavement patch, remove existing pavement to that edge and replace entire section or as directed by the Engineer (see note 1).
- Saw out edges for trench shall not fall within wheel path (see detail "A") or as directed by the Engineer.
- Engineer may require wider patch sections or otherwise alter the requirements.
- Contractor shall be responsible for replacement of loop detectors, adjustments of utilities and warnings on curbs and installation of temporary pavement markings.
- Trench width varies based on number of conduits, configuration and compaction requirements.
- Slurry cement backfill shall conform to the requirements in subsection 207.02.02 slurry cement backfill of the NDOT Standard Specifications.
- Sand bedding or approved material shall conform to gradation requirements in subsection 603.02.14 of the contract special provisions.
- Native material shall not contain rocks larger than 3-inches.
- Conduit couplings shall be staggered with no coupling touching another coupling.
- Use curbside spaces or other approved method to prevent curbside branding spaces are not required if contractor can ensure there is no contact branding prior to curing backfill.
- Return disturbed area to match existing grade.
- Conduits and conduit configuration shown in this detail are for graphical purposes only. See plans, schedules and specifications for conduit quantities, sizes, materials, and types.
- If installing underground electrical facilities or supplies, refer to Nevada administrative code (NAC) 408.444 and 408.453.
- Salvage existing topsoil if trench width exceeds 11-inches and if topsoil salvage is required as part of the project, see contract documents for details.

LONGITUDINAL
TRANSVERSE

TRENCHING IN ASPHALT

TRENCHING IN SIDEWALKS
TRENCHING IN NATIVE MATERIAL

DETAIL "A"

SECTION A-A PULL BOX MAY ALSO BE PLACED NEAR THE BACK OF CURB WITH AN 8" MIN. CLEARANCE

SECTION A-A PULL BOX

PULL BOX REPLACEMENT DETAIL

SECTION A-A PULL BOX No. 3 1/2, No. 5, No. 7 AND No. 9

PULL BOX	LO	WO	HEIGHT	L	W	TOP	HEIGHT	EXTENSION	HEIGHT
No. 3 1/2	2 1/2"	2 1/2"	12"	20 1/2"	10 1/2"	NONE	12"	NONE	12"
No. 5	2 1/2"	2 1/2"	12"	20 1/2"	10 1/2"	NONE	12"	NONE	12"
No. 7	2 1/2"	2 1/2"	12"	20 1/2"	10 1/2"	NONE	12"	NONE	12"
No. 9	2 1/2"	2 1/2"	12"	20 1/2"	10 1/2"	NONE	12"	NONE	12"

ELECTRICAL MAN-HOLE FRAME AND COVER

ELECTRICAL MAN-HOLE COLLAR RISER

1 CONDUIT TRENCH DETAIL
D13 NOT TO SCALE

2 CONDUIT AND PULL BOX DETAIL
D13 NOT TO SCALE

3 PULL BOX DETAIL
D13 NOT TO SCALE

SECTION A-A

SECTION B-B

INSTALLATION DETAIL

ITEM	DESCRIPTION
(1)	WARNING TAPE
(2)	30 LB. FELT PAPER
(3)	No. 7 PULL BOX WITH EXTENSION WITH EXCEPTIONS AS DRAWN
(4)	BEDDING MATERIAL PER DETAIL 10-14
(5)	45 DEGREE ELBOW OR BEND 3" RADIUS
(6)	45 DEGREE ELBOW OR BEND 1" RADIUS
(7)	CONDUIT BELL END
(8)	KNOCK OUT 8" x 12"
(9)	BALL MARKER LOCATOR - SEE NOTE 18

4 NO. 7 PULL BOX DETAIL
D13 NOT TO SCALE

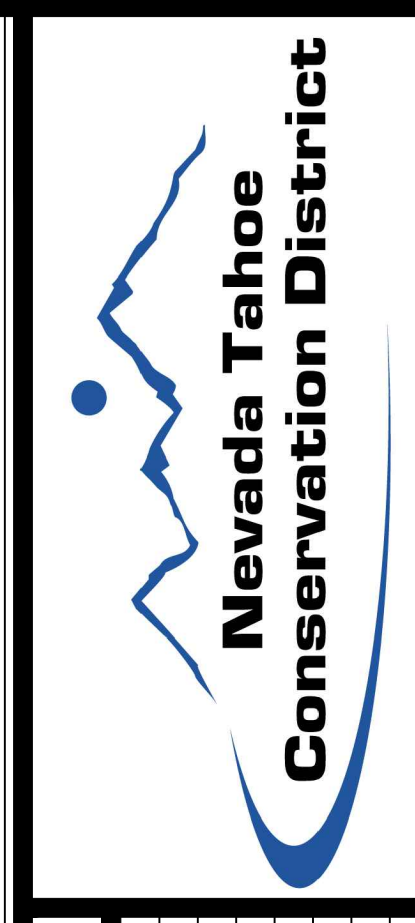
DETECTOR LAYOUTS, DIMENSIONS AND WIRING PATTERNS

LOOP DETECTOR

TYPICAL LOOP DETECTOR INSTALLATION

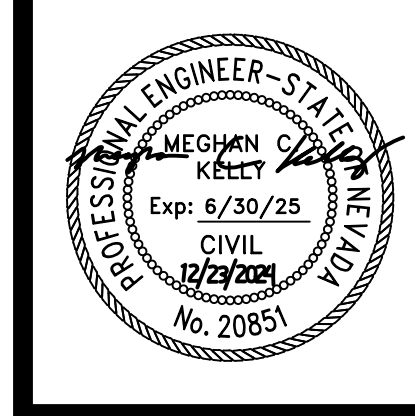
CONDUIT INSTALLATION

5 LOOP DETECTOR DETAIL
D13 NOT TO SCALE



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1	X/XXXXXXXX	XXX	

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PROJECT
KAHLE DRIVE
COMPLETE STREETS
SHEET

D13

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DETAILS - ELECTRICAL
KAHLE DRIVE COMPLETE STREETS PROJECT

ELECTRICAL SYMBOLS LIST ^{1,2,3}			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - DECORA STYLE +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		DATA/TELECOM BACK-BOX AND CONDUIT SINGLE-GANG BOX WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE
	DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT PROTECTION +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		SAFETY DISCONNECT SWITCH FRAME AMPACITY/FUSE AMPACITY/POLE QUANTITY, VOLTAGE CLASS, ENCLOSURE RATING AS NOTED
	DUPLEX RECEPTACLE - DECORA STYLE WITH TWO INTEGRAL USB CHARTER PORTS +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		CEILING MOUNTED SMOKE AND CARBON-MONOXIDE DETECTOR 120 VOLT WITH BATTERY BACKING
	DUPLEX RECEPTACLE - DECORA STYLE WITH TAMPER RESISTANT PROTECTION +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		FIRE-SMOKE DAMPER (PROVIDED BY OTHERS) 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE
	DUPLEX RECEPTACLE WITH INTEGRAL GFI PROTECTION AND EXTRA-DUTY WEATHERPROOF IN-USE HOOD +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		LIGHTING TOGGLE SWITCH - DECORA STYLE +44" AFF (CENTER OF BOX) UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - DECORA STYLE +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		LIGHTING DIMMING SWITCH +44" AFF (CENTER OF BOX) UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT PROTECTION +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		LIGHTING TOGGLE SWITCH WITH INTEGRAL OCCUPANT SENSOR - DECORA STYLE +44" AFF (CENTER OF BOX) UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - DECORA STYLE WITH TWO INTEGRAL USB CHARTER PORTS +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		LIGHTING SWITCH - THREE WAY CONFIGURATION +44" AFF (CENTER OF BOX) UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - DECORA STYLE WITH TAMPER RESISTANT PROTECTION +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		LIGHTING SWITCH WITH LOCKING COVER +44" AFF (CENTER OF BOX) UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE WITH INTEGRAL GFI PROTECTION AND EXTRA-DUTY WEATHERPROOF IN-USE HOOD +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		MOTOR RATED TOGGLE SWITCH (SERVICE DISCONNECT FOR MECHANICAL EQUIPMENT)
	DOUBLE DUPLEX RECEPTACLE - DECORA STYLE +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		CEILING MOUNTED OCCUPANCY/VACANCY SENSOR
	DOUBLE DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT PROTECTION +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		CEILING MOUNTED DAYLIGHT SENSOR
	DOUBLE DUPLEX RECEPTACLE - DECORA STYLE WITH FOUR INTEGRAL USB CHARTER PORTS +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		MECHANICAL EQUIPMENT IDENTIFIER TAG EXAMPLE: AIR CONDITIONER #1
	DOUBLE DUPLEX RECEPTACLE - DECORA STYLE WITH TAMPER RESISTANT PROTECTION +15" AFF (BOTTOM OF BOX) UNLESS OTHERWISE NOTED		SHEET NOTE BUBBLE
	DOUBLE DUPLEX RECEPTACLE - DECORA STYLE +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		ELECTRICAL EQUIPMENT IDENTIFIER TAG
	DOUBLE DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT PROTECTION +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		ELECTRICAL FEEDER IDENTIFIER TAG
	DOUBLE DUPLEX RECEPTACLE - DECORA STYLE WITH FOUR INTEGRAL USB CHARTER PORTS +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		REFERENCE TAG EXAMPLE: DETAIL 'A', SHEET EXXX
	DOUBLE DUPLEX RECEPTACLE - DECORA STYLE WITH TAMPER RESISTANT PROTECTION +48" AFF (TOP OF BOX) UNLESS OTHERWISE NOTED		BRANCH CIRCUIT WIRING 3/4" CONDUIT WITH (2)-#12 Cu + (1)-#12 Cu GROUND UNLESS OTHERWISE NOTED
	JUNCTION BOX - SIZED AS REQUIRED		UNDERGROUND/UNDERFLOOR BRANCH CIRCUIT WIRING 3/4" CONDUIT WITH (2)-#12 Cu + (1)-#12 Cu GROUND UNLESS OTHERWISE NOTED
	SPECIAL CONFIGURATION RECEPTACLE - NEMA CONFIGURATION AS NOTED		LOW VOLTAGE INTERCONNECTION WIRING VERIFY CABLING TYPE UNLESS OTHERWISE NOTED
NOTES:			
1. GROUND-FAULT INTERRUPTING RECEPTACLES SHALL BE "STAND-ALONE" AND SHALL NOT BE CONFIGURED FOR SERIES PROTECTION.			
2. PROVIDE AND INSTALL BACK-BOX AND 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING OR FLOOR SPACE FOR ALL TELEVISION, DATA/COMMUNIIATION, INTERNET, ETC. BACK-BOXES FOR FUTURE CABLING AND TERMINATIONS.			
3. PROVIDE AND INSTALL PLASTIC COVERS FOR ALL RECEPTACLES, SWITCHES, DATA AND COMMUNICATIONS BOXES, ETC. VERIFY COLORS WITH ARCHITECT AND OWNER.			
4. PROVIDE FACEPLATES WITH TERMINATION JACKS FOR INTERNAL COMMUNICATION SYSTEMS (TELEVISION, TELEPHONE, INTERNET) PER BRAND STANDARDS.			
5. VERIFY INTERCONNECTION AND CONTROL WIRING TYPE, QUANTITY, TERMINATION, ETC. WITH AUXILIARY SYSTEM CONTRACTOR AND MANUFACTURER'S WIRING DIAGRAMS.			

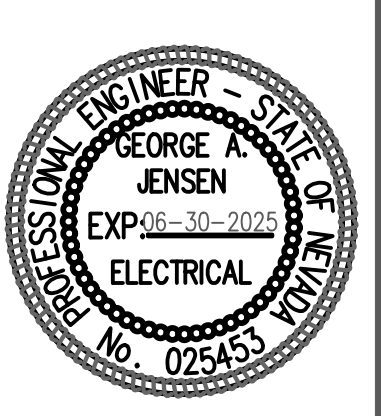
LIGHTING FIXTURE SCHEDULE - NON RESIDENTIAL SPACES ^{1,4}										
FIXTURE SYMBOL	FIXTURE TYPE	MANUFACTURER DETAILS		POWER (WATTS)	MOUNTING		LAMP TYPE	DESCRIPTION	NOTES	VOLTAGE
		MAKE	MODEL		HEIGHT	CONFIG.				
	SY21P1	CYCLONE LIGHTING	SY21P1-FGC-T2-P60-40K	86	+15'-0"	POLE	LED ARRAY	DECORATIVE POLE LIGHT WITH TYPE 2 DISTRIBUTION	ARM- MM202-C1-MPXX-DG-SM POLE- TH-220-A-3-DB-20-R	240
	L20	AMERON POLES	L20-Q-C-C-04-LE	24	+3'-6"	BOLLARD	LED ARRAY	LOUVERED LIGHTING BOLLARD WITH SIDE SHIELD (ASYMMETRIC DISTRIBUTION)	BASE- B-B-Q-08-42-LC WITH OPTIONAL HOUSE SIDE SHIELD	240
Notes:										
1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED CONNECTING AND MOUNTING HARDWARE PER MANUFACTURER'S INSTRUCTIONS.										
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL UNSWITCHED "STEADY-HOT" CONDUCTOR TO ALL FIXTURES WITH INTEGRAL BATTERIES PER MANUFACTURER'S INSTRUCTIONS.										
3. ALL BATTERY BACKED FIXTURES SHALL OPERATE FOR A MINIMUM OF 90 MINUTES UPON LOSS OF POWER.										
4. COORDINATE WITH ARCHITECT OR OWNER FOR SELECTION OF ALL FINISHES, COLORS, ETC. PROVIDE ALL STANDARD OPTIONS AND ADVISE OF CUSTOM OPTIONS (IF AVAILABLE).										

JENSEN ENGINEERING INC.
 Electrical Engineers
 9655 Gateway Drive
 Reno, Nevada 86921-2968
 Ph: (775) 852-2286
 Fax: (775) 852-3088
 web: www.jeneng.com
 email: geral@jeneng.com

No.	REVISIONS	DESCRIPTION	BY	DATE

NEW STREET LIGHTING FOR
 COMPLETE STREETS
 KAHLER DRIVE
 COMPLETE STREETS PROJECT

ELECTRICAL SYMBOLS/
 FIXTURE SCHEDULE



24 DEC 2024

PRELIMINARY SET

DRAWN BY: CRS
 DESIGNED BY: SJM
 CHECKED: GAJ
 DATE: 24 DEC 2024
 PROJECT NO: G03724CF

ELECTRONIC APPROVAL

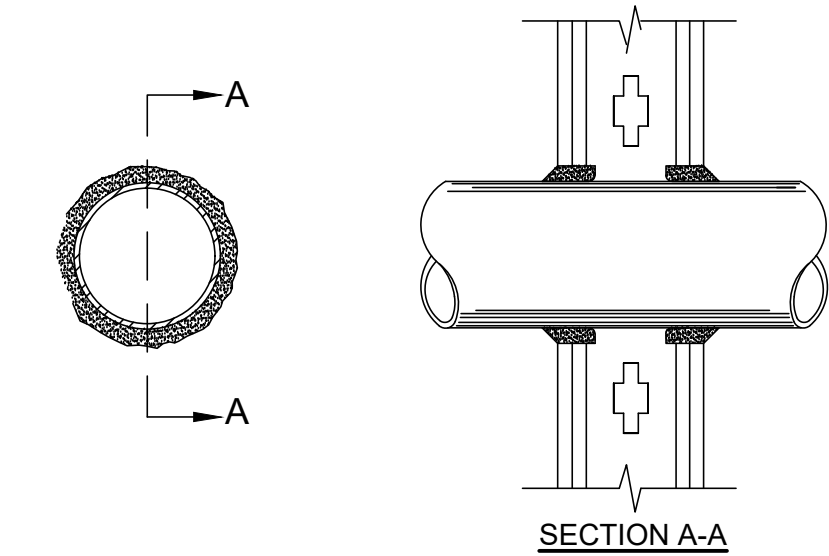
SHEET NUMBER

E001

GENERAL ELECTRICAL SPECIFICATIONS

Table with 5 columns (PART 1.0-5.0) and multiple rows detailing electrical specifications, standards, and procedures. Includes sections for general provisions, inclusions/exclusions, drawings, electrical components, and penetrations.

Table detailing penetrations (PART 5.0). Includes text describing fire-rated wall assemblies, materials, and construction features. Includes a table for pipe diameters and fire ratings.



JENSEN ENGINEERING INC. logo and contact information: 9855 Gateway Drive, Reno, Nevada 89521-2968, Phone: (775) 852-2286, Fax: (775) 852-3088, Email: jgen@aol.com, jgen@jenseneng.com

REVISIONS table with columns for No., DESCRIPTION, DATE, and BY. Below the table is the project title: NEW STREET LIGHTING FOR COMPLETE STREETS KAHLE DRIVE COMPLETE STREETS PROJECT.

GENERAL ELECTRICAL SPECIFICATIONS

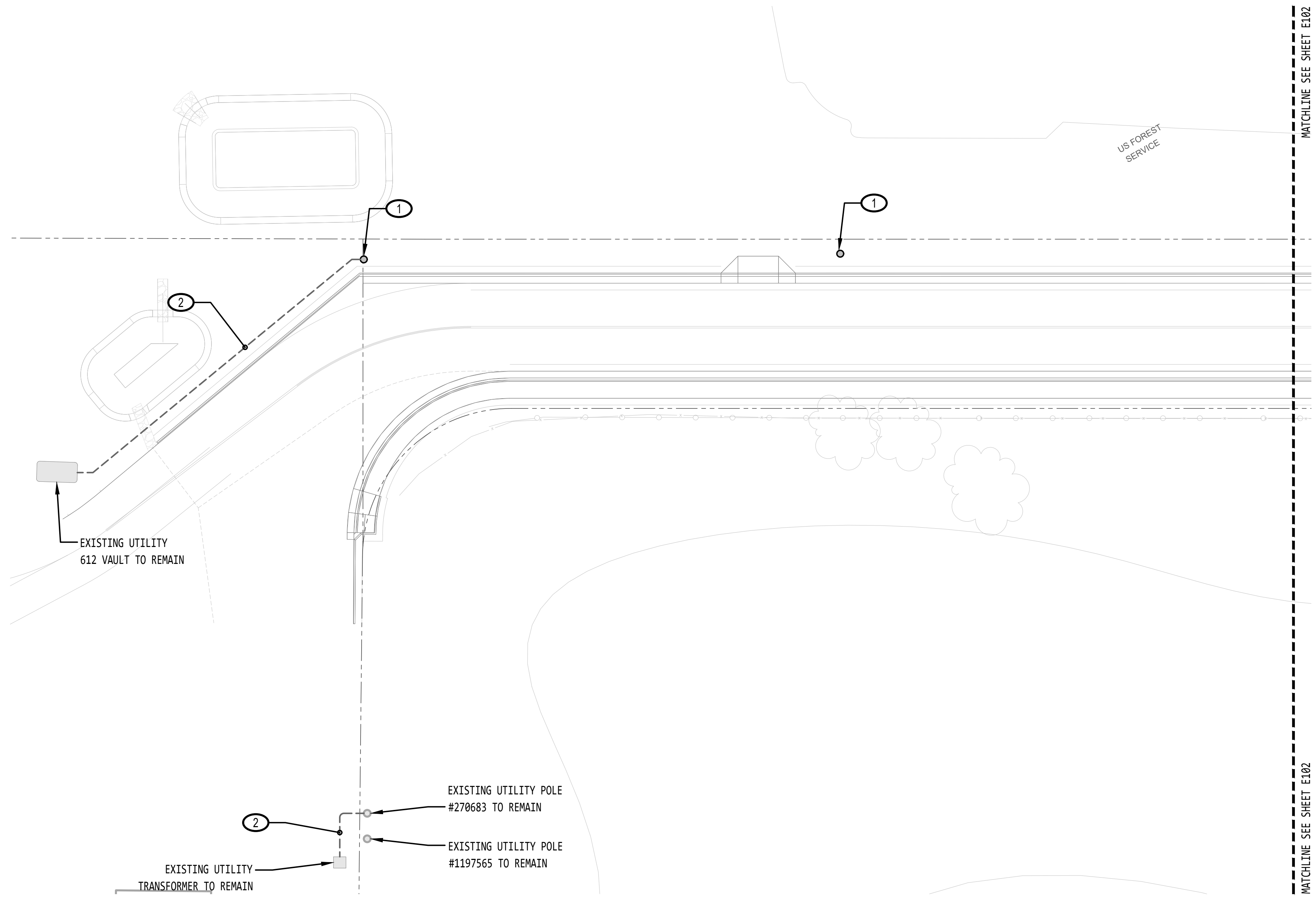


24 DEC 2024

PRELIMINARY SET table with fields for DRAWN BY: CRS, DESIGNED BY: SJM, CHECKED: GAJ, DATE: 24 DEC 2024, PROJECT NO: G03724CF, ELECTRONIC APPROVAL.

SHEET NOTES

- ① COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AS REQUIRED FOR DEMOLITION OF EXISTING UTILITY POWER POLES AND ATTACHED ELEMENTS (LIGHTING, TRANSFORMERS, METERING EQUIPMENT, ETC.).
- ② COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED REMOVAL OF EXISTING UNDERGROUND CONDUIT. SEE NV ENERGY WORK ORDER DRAWINGS.



A PARTIAL SITE EXISTING CONDITIONS & DEMOLITION PLAN
 1" = 20' - 0"

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REVISIONS	No.	DESCRIPTION	DATE	BY

**NEW STREET LIGHTING FOR COMPLETE STREETS
 KAHLE DRIVE
 COMPLETE STREETS PROJECT**

PARTIAL SITE EXISTING CONDITIONS AND DEMOLITION PLAN

George Jensen
 PROFESSIONAL ENGINEER
 GEORGE JENSEN
 EXP. 06-30-2022
 ELECTRICAL
 No. 025453
 24 DEC 2024

PRELIMINARY SET
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 PROJECT NO: G03724CF
 ELECTRONIC APPROVAL

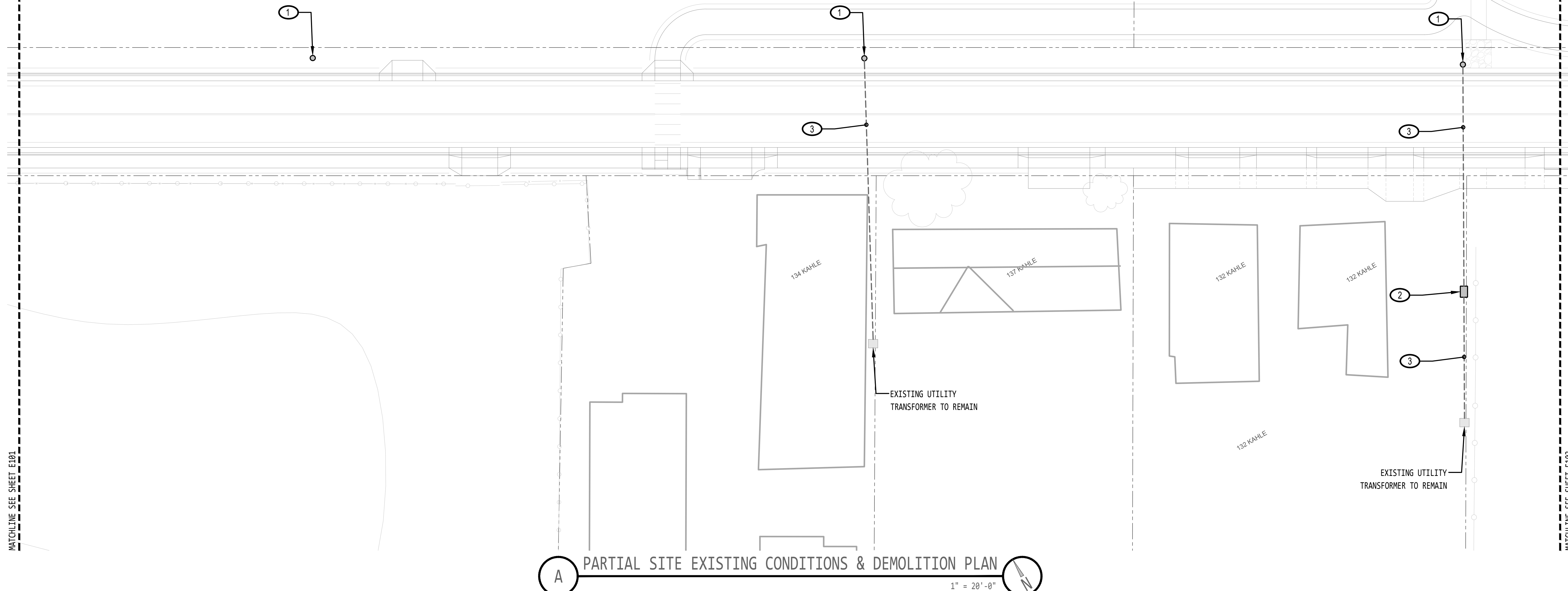
SHEET NUMBER
E101

MATCHLINE SEE SHEET E101

MATCHLINE SEE SHEET E101

MATCHLINE SEE SHEET E103

MATCHLINE SEE SHEET E103



A PARTIAL SITE EXISTING CONDITIONS & DEMOLITION PLAN
 1" = 20'-0"

SHEET NOTES

- ① COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AS REQUIRED FOR DEMOLITION OF EXISTING UTILITY POWER POLES AND ATTACHED ELEMENTS (LIGHTING, TRANSFORMERS, METERING EQUIPMENT, ETC.).
- ② COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED FOR REMOVAL OF EXISTING N-48 BOX. REMOVE AND RETIRE EXISTING CONDUIT AND N-48 BOX.
- ③ COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED REMOVAL OF EXISTING UNDERGROUND CONDUIT. SEE NV ENERGY WORK ORDER DRAWINGS.

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No.	DESCRIPTION	DATE	BY

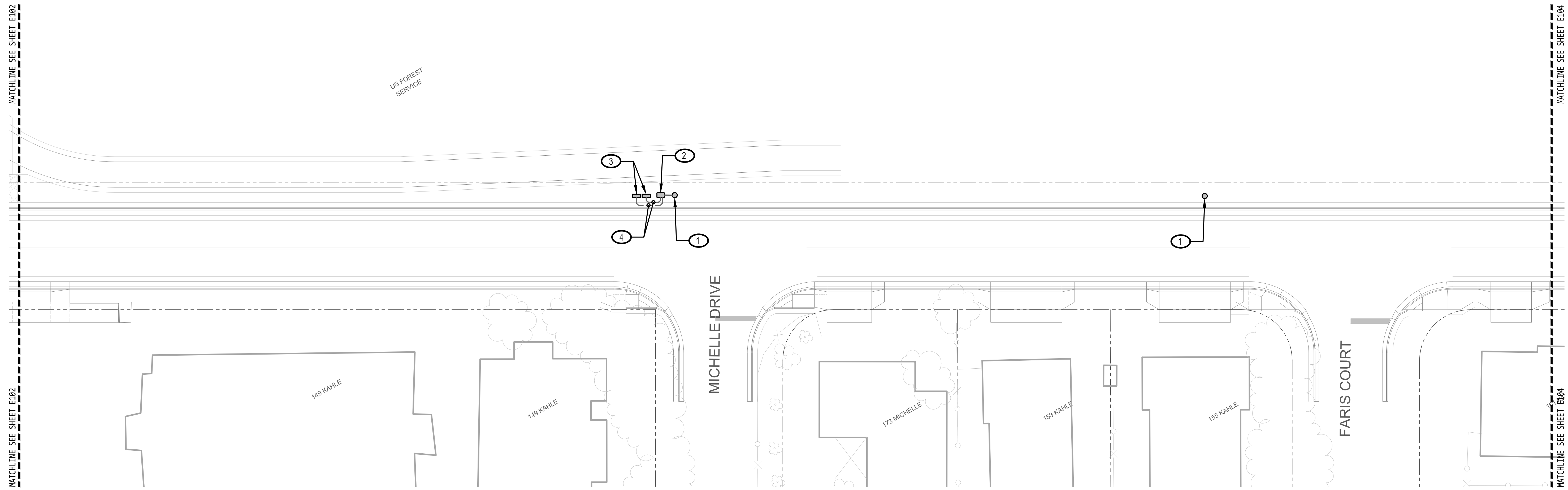
NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE EXISTING CONDITIONS AND DEMOLITION PLAN

24 DEC 2024

PRELIMINARY SET
 DRAWN BY: CRS
 DESIGNED BY: SJM
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 PROJECT NO: G03724CF
 ELECTRONIC APPROVAL

SHEET NUMBER
E102
 65



A PARTIAL SITE EXISTING CONDITIONS & DEMOLITION PLAN
 1" = 20'-0" 

SHEET NOTES

- ① COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AS REQUIRED FOR DEMOLITION OF EXISTING UTILITY POWER POLES AND ATTACHED ELEMENTS (LIGHTING, TRANSFORMERS, METERING EQUIPMENT, ETC.).
- ② COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED FOR REMOVAL OF EXISTING N-36 BOX. REMOVE AND RETIRE EXISTING CONDUIT AND N-36 BOX.
- ③ COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED FOR DISCONNECTION, RE-LOCATION, AND REINSTALLATION OF EXISTING 100-AMP CHARTER PEDESTAL (TYPICAL OF TWO). SEE PROPOSED SITE ELECTRICAL PLANS.
- ④ COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED REMOVAL OF EXISTING UNDERGROUND CONDUIT. SEE NV ENERGY WORK ORDER DRAWINGS.

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NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE EXISTING CONDITIONS AND DEMOLITION PLAN

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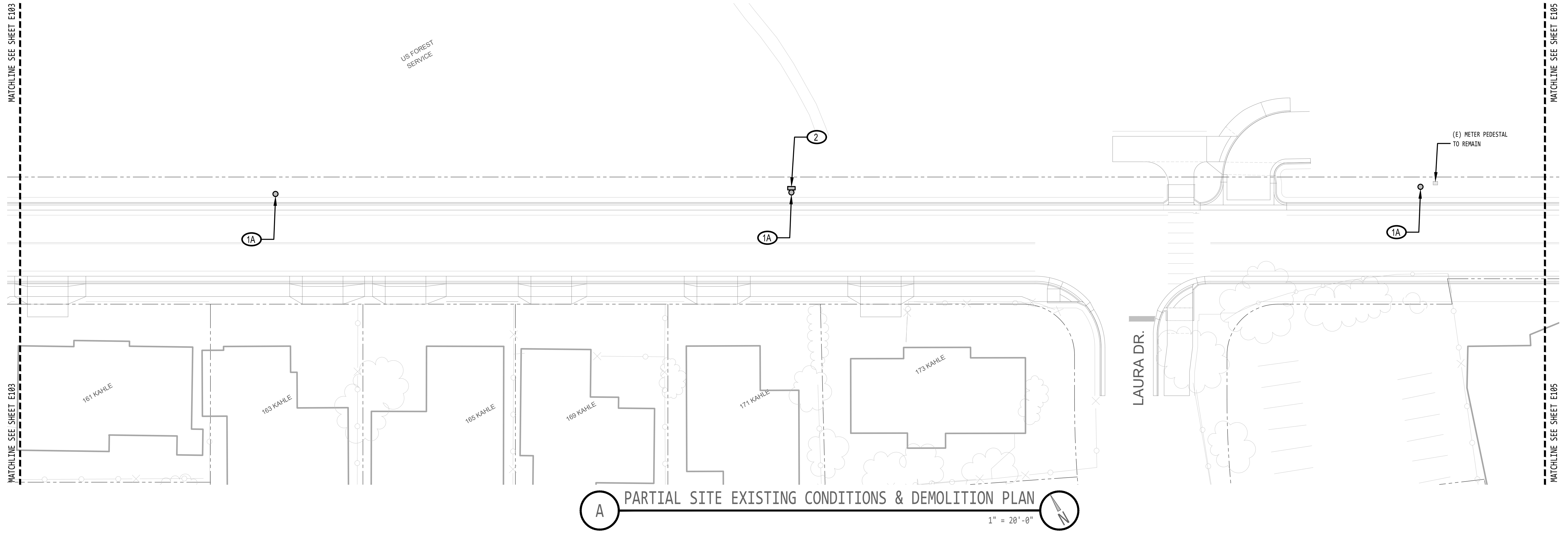
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DRAWN BY: CRS
 DESIGNED BY: SJM
 CHECKED: GAJ
 DATE: 24 DEC 2024
 PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E103



SHEET NOTES

- ① COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AS REQUIRED FOR DEMOLITION OF EXISTING UTILITY POWER POLES AND ATTACHED ELEMENTS (LIGHTING, TRANSFORMERS, ETC.).
- ② COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED FOR DISCONNECTION, RELOCATION, AND REINSTALLATION OF EXISTING TSC835 BOX. SEE PROPOSED SITE ELECTRICAL PLANS.

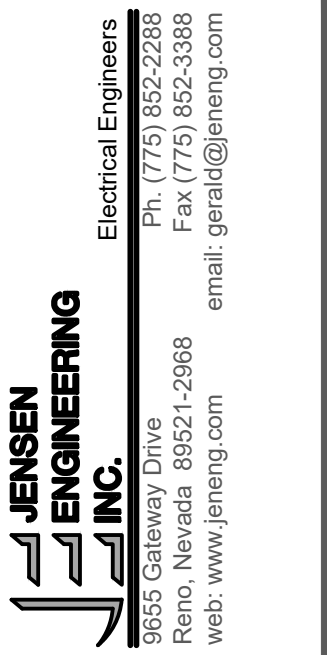
A PARTIAL SITE EXISTING CONDITIONS & DEMOLITION PLAN
 1" = 20'-0"

MATCHLINE SEE SHEET E103

MATCHLINE SEE SHEET E103

MATCHLINE SEE SHEET E105

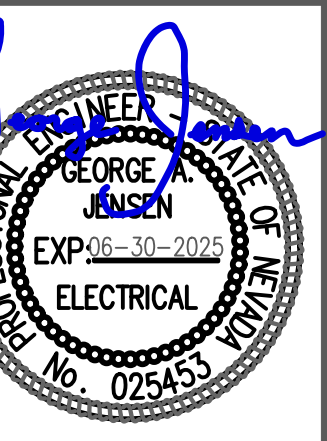
MATCHLINE SEE SHEET E105



NO.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE EXISTING CONDITIONS AND DEMOLITION PLAN



24 DEC 2024

PRELIMINARY SET

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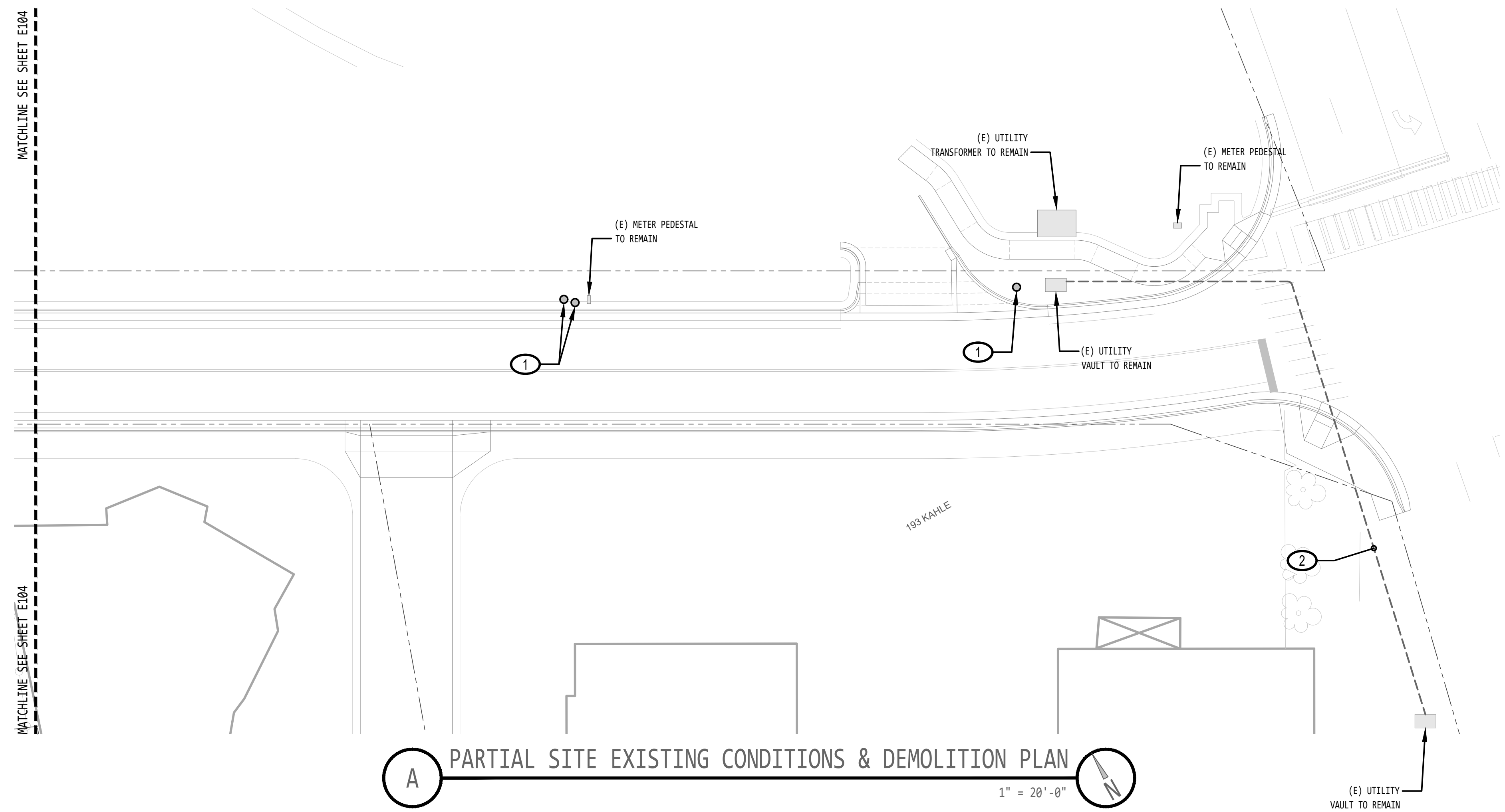
ELECTRONIC APPROVAL

SHEET NUMBER

E104

SHEET NOTES

- ① COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AS REQUIRED FOR DEMOLITION OF EXISTING UTILITY POWER POLES AND ATTACHED ELEMENTS (LIGHTING, TRANSFORMERS, ETC.).
- ② COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED REMOVAL OF EXISTING UNDERGROUND CONDUIT. SEE NV ENERGY WORK ORDER DRAWINGS.



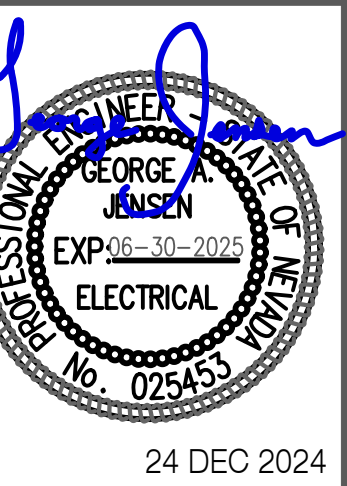
A PARTIAL SITE EXISTING CONDITIONS & DEMOLITION PLAN
 1" = 20'-0"

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NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE
COMPLETE STREETS PROJECT

PARTIAL SITE EXISTING CONDITIONS AND DEMOLITION PLAN



24 DEC 2024

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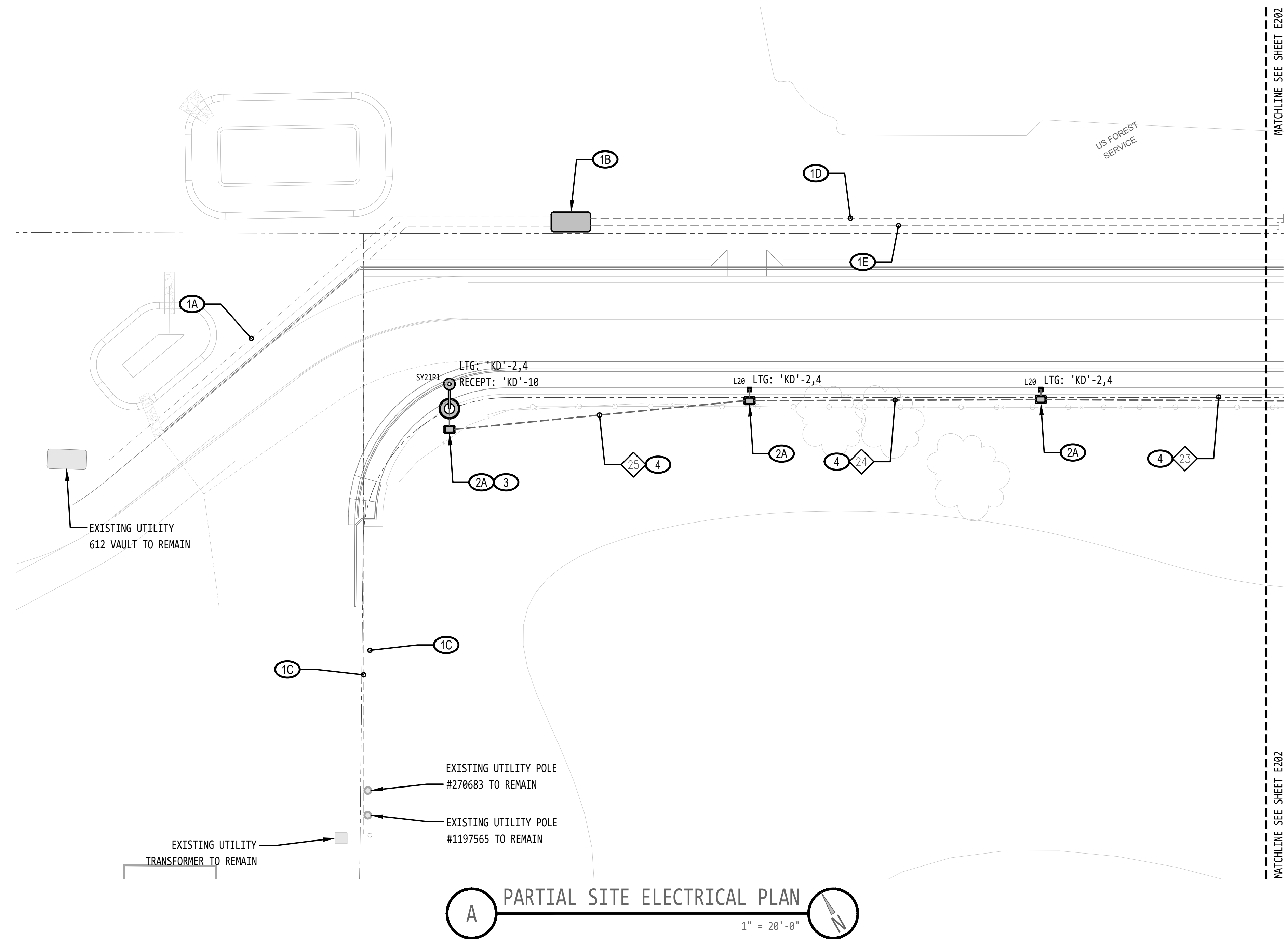
ELECTRONIC APPROVAL

SHEET NUMBER

E105

SHEET NOTES

- 1 COORDINATE WITH NV ENERGY AS REQUIRED FOR INSTALLATION OF UTILITY ELEMENTS PER NV ENERGY WORK ORDER DRAWINGS. VERIFY EXTENTS OF UTILITY WORK. PROVIDE AND INSTALL ELECTRICAL ELEMENTS AS FOLLOWS:
 - A. INTERCEPT EXISTING 6" CONDUIT (AFTER CABLE REMOVAL) AND EXTEND TO NEW 612 VAULT WITH NEW 6" PVC CONDUIT AS SHOWN.
 - B. NEW 612 VAULT WITH LID 'A'.
 - C. ONE 4" CONDUIT FROM NEW 612 VAULT TO EXISTING POWER POLES.
 - D. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E202).
 - E. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E202).
- 2 PROVIDE AND INSTALL JENSEN PRECAST HN1017 ELECTRICAL HANDHOLE WITH MATCHING NON-TRAFFIC RATED LID AND EXTENSIONS AS REQUIRED. ROUTE BRANCH CIRCUIT WIRING FOR NEW POLE-MOUNTED LIGHTING, NEW BOLLARD LIGHTING, AND NEW POLE-MOUNTED RECEPTACLES (SEE KD CONDUIT AND BRANCH CIRCUIT SCHEDULE).
- 3 PROVIDE AND INSTALL POLE-MOUNTED LIGHTING WITH INTEGRAL GFI-TYPE RECEPTACLE WITH EXTRA-DUTY IN-USE HOOD IN LIGHTING POLE.
- 4 PROVIDE AND INSTALL ELECTRICAL CONDUIT WITH ELECTRICAL CONDUCTORS FOR POLE-MOUNTED LIGHTING, BOLLARD LIGHTING, AND POLE-MOUNTED RECEPTACLES PER KD CONDUIT AND BRANCH CIRCUIT SCHEDULE.



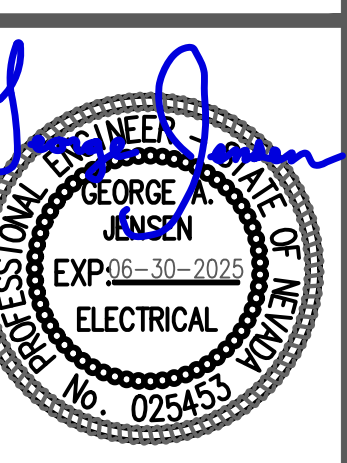
A PARTIAL SITE ELECTRICAL PLAN
1" = 20'-0"

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REVISIONS	No.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PROPOSED ELECTRICAL PLAN



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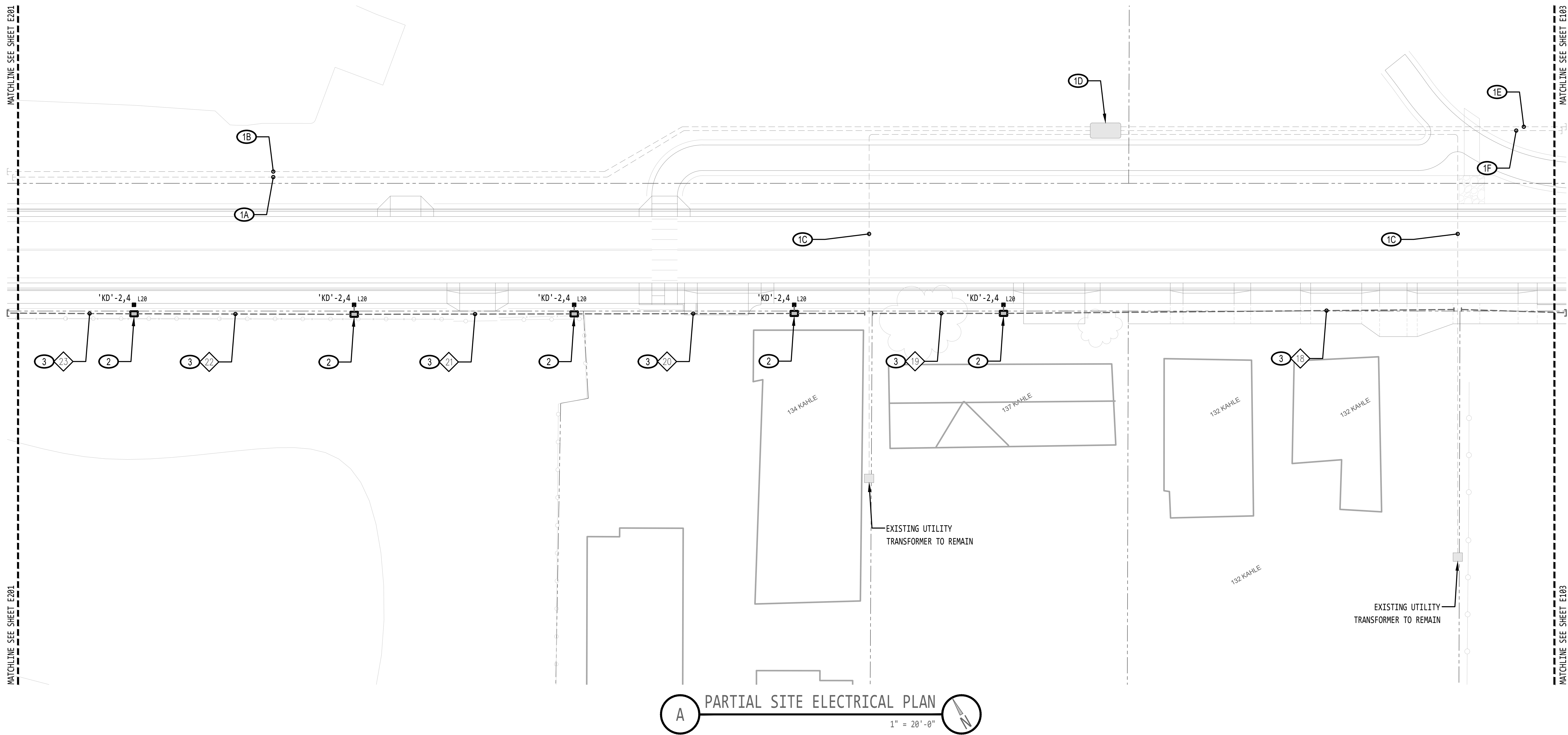
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DATE: 24 DEC 2024
PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E201



A PARTIAL SITE ELECTRICAL PLAN
 1" = 20'-0"

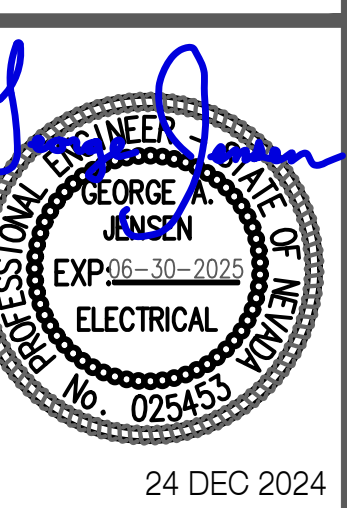
SHEET NOTES

- 1. COORDINATE WITH NV ENERGY AS REQUIRED FOR INSTALLATION OF UTILITY ELEMENTS PER NV ENERGY WORK ORDER DRAWINGS. VERIFY EXTENTS OF UTILITY WORK. PROVIDE AND INSTALL ELECTRICAL ELEMENTS AS FOLLOWS:
 - A. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E201).
 - B. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E201).
 - C. ONE 4" CONDUIT FROM NEW 612 VAULT TO UTILITY TRANSFORMER.
 - D. NEW 612 VAULT WITH LID 'A'.
 - E. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E203).
 - F. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E203).
- 2. PROVIDE AND INSTALL JENSEN PRECAST HN1017 ELECTRICAL HANDHOLE WITH MATCHING NON-TRAFFIC RATED LID AND EXTENSIONS AS REQUIRED. ROUTE BRANCH CIRCUIT WIRING FOR NEW POLE-MOUNTED LIGHTING, NEW BOLLARD LIGHTING, AND NEW POLE-MOUNTED RECEPTACLES (SEE KD CONDUIT AND BRANCH CIRCUIT SCHEDULE).
- 3. PROVIDE AND INSTALL ELECTRICAL CONDUIT WITH ELECTRICAL CONDUCTORS FOR POLE-MOUNTED LIGHTING, BOLLARD LIGHTING, AND POLE-MOUNTED RECEPTACLES PER KD CONDUIT AND BRANCH CIRCUIT SCHEDULE.

REVISIONS	NO.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

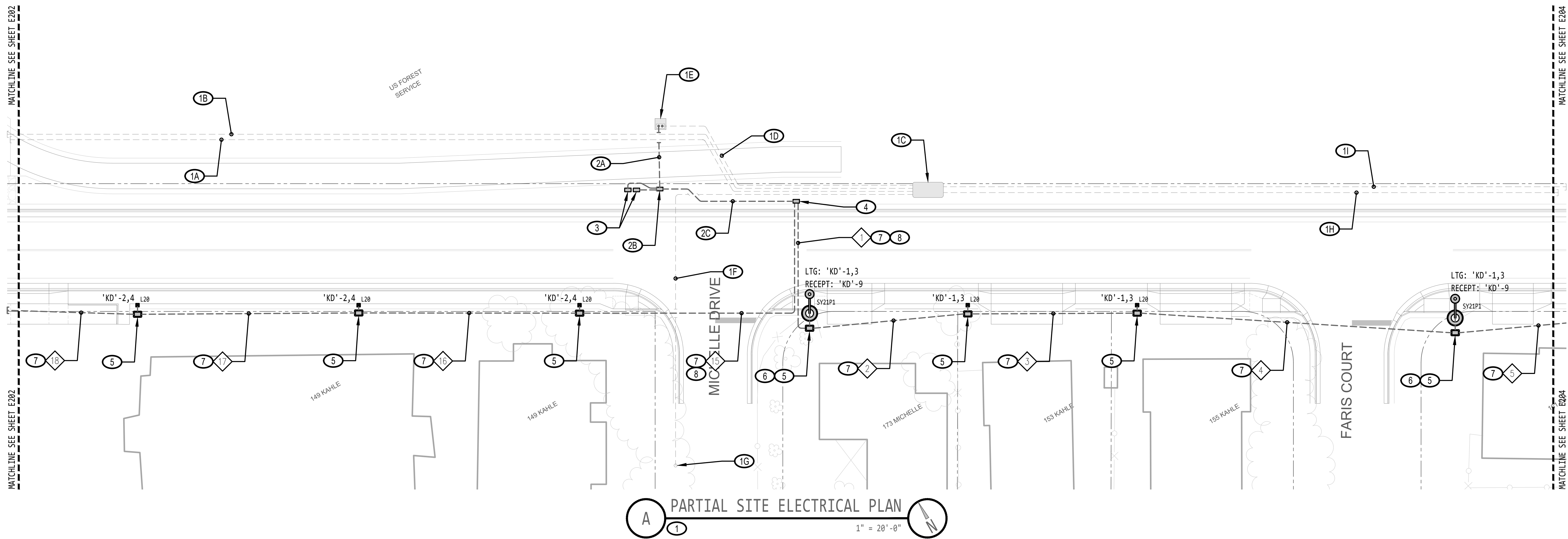
PARTIAL SITE PROPOSED ELECTRICAL PLAN



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 DESIGNED BY: SJM
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 PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER
E202



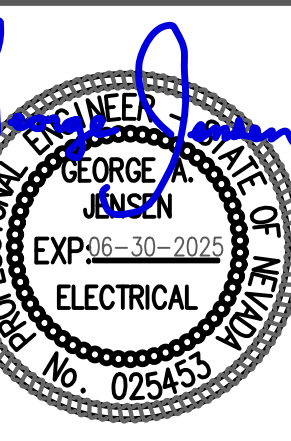
SHEET NOTES

- ① COORDINATE WITH NV ENERGY AS REQUIRED FOR INSTALLATION OF UTILITY ELEMENTS PER NV ENERGY WORK ORDER DRAWINGS. VERIFY EXTENTS OF UTILITY WORK. PROVIDE AND INSTALL ELECTRICAL ELEMENTS AS FOLLOWS:
 - A. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E202).
 - B. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E202).
 - C. 612 VAULT WITH LID 'A'.
 - D. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW UTILITY TRANSFORMER.
 - E. 25 KVA, 1-PHASE TRANSFORMER.
 - F. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW UTILITY POLE.
 - G. NEW UTILITY POWER-POLE.
 - H. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E204).
 - I. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E204).
- ② ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW ELECTRICAL UTILITY SERVICE ENTRANCE ELEMENTS AS FOLLOWS:
 - A. ONE 3" CONDUIT EXTENDING FROM NEW UTILITY TRANSFORMER TO NEW N36 BOX.
 - B. NEW N36 BOX (17"x30") WITH MATCHING NON-TRAFFIC RATED LID AND EXTENSIONS AS REQUIRED.
 - C. ONE 3" CONDUIT EXTENDING FROM NEW N36 BOX TO NEW STREET LIGHTING SERVICE PEDESTAL.
- ③ COORDINATE WITH GENERAL CONTRACTOR AND SERVING ELECTRICAL UTILITY COMPANY AS REQUIRED FOR RELOCATION AND REINSTALLATION OF 100-AMP CHARTER PEDESTAL (TYPICAL OF TWO PEDESTALS). PROVIDE AND INSTALL ONE 3" CONDUIT EXTENDING FROM NEW N36 BOX (SEE SHEET NOTE #2B) TO EACH RELOCATED/REINSTALLED PEDESTAL.
- ④ COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED FOR INSTALLATION OF NEW MAIN ELECTRICAL SERVICE EQUIPMENT. PROVIDE AND INSTALL SERVICE EQUIPMENT INCLUDING SEISMIC CONTROL ELEMENTS PER MANUFACTURER'S INSTRUCTIONS. TESCO #27-100, B-LINE #CMP4921MC, OR APPROVED EQUIVALENT ELECTRICAL SERVICE PEDESTAL. 100-AMP MAIN CIRCUIT BREAKER, 120/240-VOLT, 1-PHASE/3-WIRE, NEMA 3R. ENCLOSED MODULAR METER/MAIN SERVICE PEDESTAL. PROVIDE AND INSTALL COMPLETE WITH INTEGRAL 16-CIRCUIT PANEL ('MM'), EIGHT-POLE CONTACTOR WITH 120V COIL, 120-VOLT PHOTO-CELL, H.O.A. SWITCH, AND TIME CLOCK. PEDESTAL SHALL HAVE A RAL 6012 FINISH.
- ⑤ PROVIDE AND INSTALL JENSEN PRECAST HN1017 ELECTRICAL HANDHOLE WITH MATCHING NON-TRAFFIC RATED LID AND EXTENSIONS AS REQUIRED. ROUTE BRANCH CIRCUIT WIRING FOR NEW POLE-MOUNTED LIGHTING, NEW BOLLARD LIGHTING, AND NEW POLE-MOUNTED RECEPTACLES (SEE KD CONDUIT AND BRANCH CIRCUIT SCHEDULE).
- ⑥ PROVIDE AND INSTALL POLE-MOUNTED LIGHTING WITH INTEGRAL GFI-TYPE RECEPTACLE WITH EXTRA-DUTY IN-USE HOOD IN LIGHTING POLE.
- ⑦ PROVIDE AND INSTALL ELECTRICAL CONDUIT WITH ELECTRICAL CONDUCTORS FOR POLE-MOUNTED LIGHTING, BOLLARD LIGHTING, AND POLE-MOUNTED RECEPTACLES PER KD CONDUIT AND BRANCH CIRCUIT SCHEDULE.
- ⑧ ELECTRICAL CONTRACTOR SHALL INSPECT PROJECT SITE AND IDENTIFY EXISTING WATER PIPING UNDER KAHLE DRIVE. NEW ELECTRICAL CONDUIT TRENCH SHALL AVOID WATER PIPING. BACKFILL ELECTRICAL TRENCH ACROSS KAHLE DRIVE USING FLOWABLE BACKFILL MATERIAL.

REVISIONS	NO.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PROPOSED ELECTRICAL PLAN



24 DEC 2024

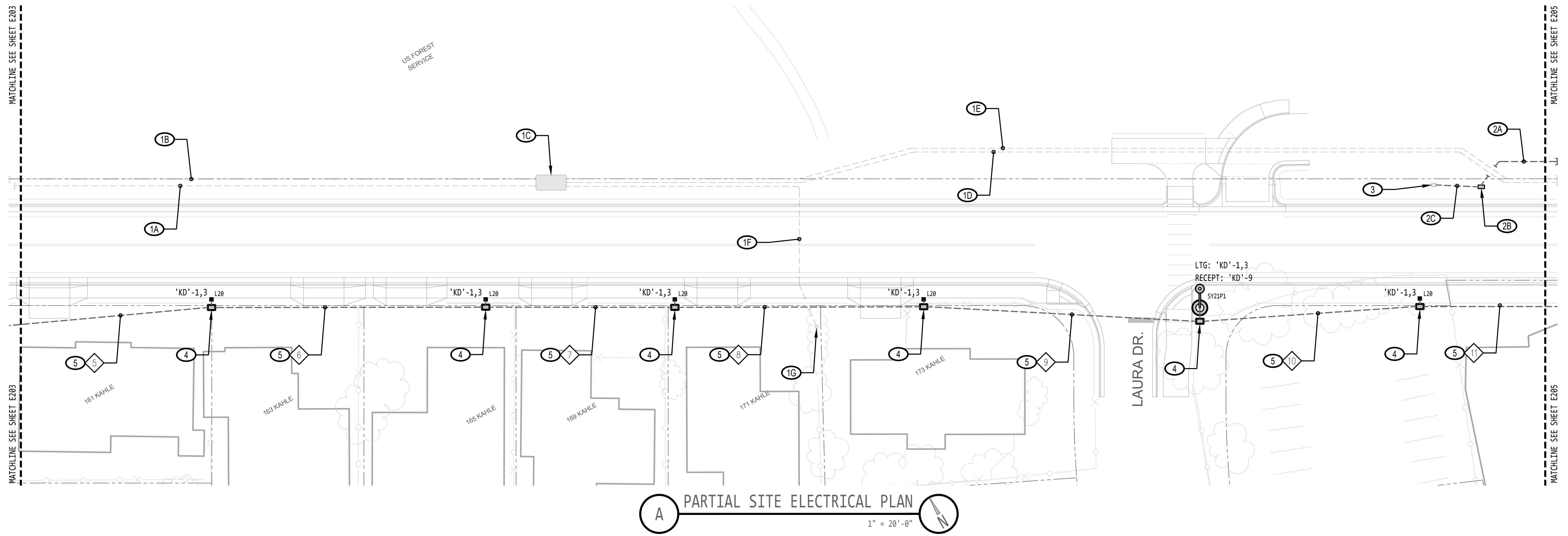
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 PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E203



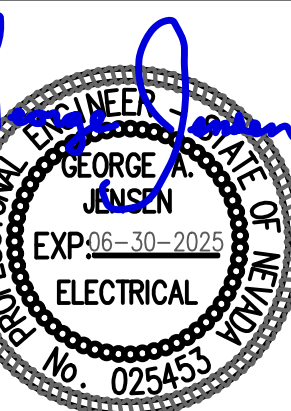
SHEET NOTES

1. COORDINATE WITH NV ENERGY AS REQUIRED FOR INSTALLATION OF UTILITY ELEMENTS PER NV ENERGY WORK ORDER DRAWINGS. VERIFY EXTENTS OF UTILITY WORK. PROVIDE AND INSTALL ELECTRICAL ELEMENTS AS FOLLOWS:
 - A. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E203).
 - B. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E203).
 - C. NEW 612 VAULT WITH LID 'A'.
 - D. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E205).
 - E. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E205).
 - F. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW UTILITY POLE.
 - G. NEW UTILITY POWER-POLE.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW ELECTRICAL UTILITY SERVICE ENTRANCE ELEMENTS AS FOLLOWS:
 - A. ONE 3" CONDUIT EXTENDING FROM NEW UTILITY TRANSFORMER TO NEW N36 BOX. SEE SHEET E205.
 - B. NEW N36 BOX (17"x30") WITH MATCHING NON-TRAFFIC RATED LID AND EXTENSIONS AS REQUIRED.
 - C. ONE 3" CONDUIT EXTENDING FROM NEW N36 BOX TO EXISTING METER/MAIN SERVICE PEDESTAL.
3. COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED FOR RECONNECTION OF EXISTING METER/MAIN PEDESTAL.
4. PROVIDE AND INSTALL JENSEN PRECAST HN1017 ELECTRICAL HANDHOLE WITH MATCHING NON-TRAFFIC RATED LID AND EXTENSIONS AS REQUIRED. ROUTE BRANCH CIRCUIT WIRING FOR NEW POLE-MOUNTED LIGHTING, NEW BOLLARD LIGHTING, AND NEW POLE-MOUNTED RECEPTACLES (SEE KD CONDUIT AND BRANCH CIRCUIT SCHEDULE).
5. PROVIDE AND INSTALL ELECTRICAL CONDUIT WITH ELECTRICAL CONDUCTORS FOR POLE-MOUNTED LIGHTING, BOLLARD LIGHTING, AND POLE-MOUNTED RECEPTACLES PER KD CONDUIT AND BRANCH CIRCUIT SCHEDULE.

NO.	REVISIONS	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PROPOSED ELECTRICAL PLAN



24 DEC 2024

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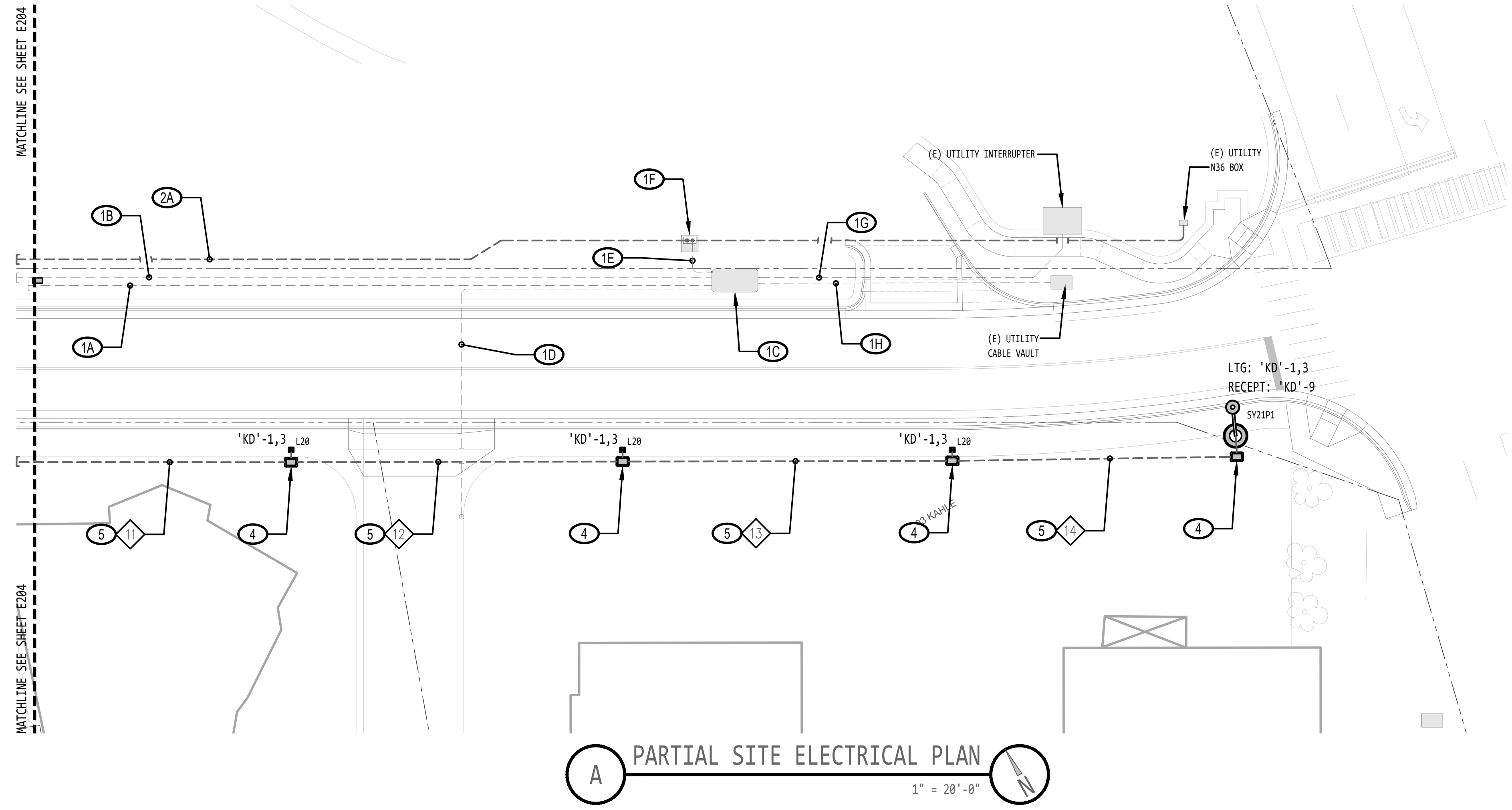
ELECTRONIC APPROVAL

SHEET NUMBER

E204

SHEET NOTES

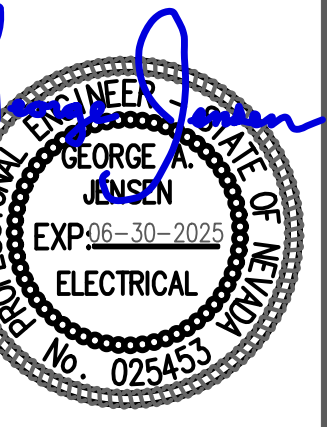
- ① COORDINATE WITH NV ENERGY AS REQUIRED FOR INSTALLATION OF UTILITY ELEMENTS PER NV ENERGY WORK ORDER DRAWINGS. VERIFY EXTENTS OF UTILITY WORK. PROVIDE AND INSTALL ELECTRICAL ELEMENTS AS FOLLOWS:
 - A. FOUR 4" CONDUITS FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E204).
 - B. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW 612 VAULT (SEE E204).
 - C. NEW 612 VAULT WITH LID 'A'.
 - D. ONE 4" CONDUIT FROM NEW 612 VAULT STUBBED UP FOR FUTURE 3-PHASE PRIMARY.
 - E. ONE 4" CONDUIT FROM NEW 612 VAULT TO NEW UTILITY TRANSFORMER.
 - F. 25 KVA, 1-PHASE TRANSFORMER.
 - G. ONE 6" CONDUIT FROM NEW 612 VAULT TO EXISTING UTILITY INTERRUPTER.
 - H. ONE 4" CONDUIT FROM NEW 612 VAULT TO EXISTING 660 UTILITY VAULT.
- ② ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW ELECTRICAL UTILITY SERVICE ENTRANCE ELEMENTS AS FOLLOWS:
 - A. ONE 3" CONDUIT EXTENDING FROM NEW UTILITY TRANSFORMER TO NEW N36 BOX. SEE SHEET E204.
 - B. ONE 3" CONDUIT EXTENDING FROM NEW UTILITY TRANSFORMER TO EXISTING N36 BOX.
- ③ COORDINATE WITH SERVING UTILITY COMPANY AS REQUIRED FOR RECONNECTION OF EXISTING METER/MAIN PEDESTAL.
- ④ PROVIDE AND INSTALL JENSEN PRECAST HN1017 ELECTRICAL HANDHOLE WITH MATCHING NON-TRAFFIC RATED LID AND EXTENSIONS AS REQUIRED. ROUTE BRANCH CIRCUIT WIRING FOR NEW POLE-MOUNTED LIGHTING, NEW BOLLARD LIGHTING, AND NEW POLE-MOUNTED RECEPTACLES (SEE KD CONDUIT AND BRANCH CIRCUIT SCHEDULE).
- ⑤ PROVIDE AND INSTALL ELECTRICAL CONDUIT WITH ELECTRICAL CONDUCTORS FOR POLE-MOUNTED LIGHTING, BOLLARD LIGHTING, AND POLE-MOUNTED RECEPTACLES PER KD CONDUIT AND BRANCH CIRCUIT SCHEDULE.



REVISIONS	No.	DESCRIPTION	DATE	BY

**NEW STREET LIGHTING FOR COMPLETE STREETS
 KAHLE DRIVE
 COMPLETE STREETS PROJECT**

PARTIAL SITE PROPOSED ELECTRICAL PLAN



24 DEC 2024

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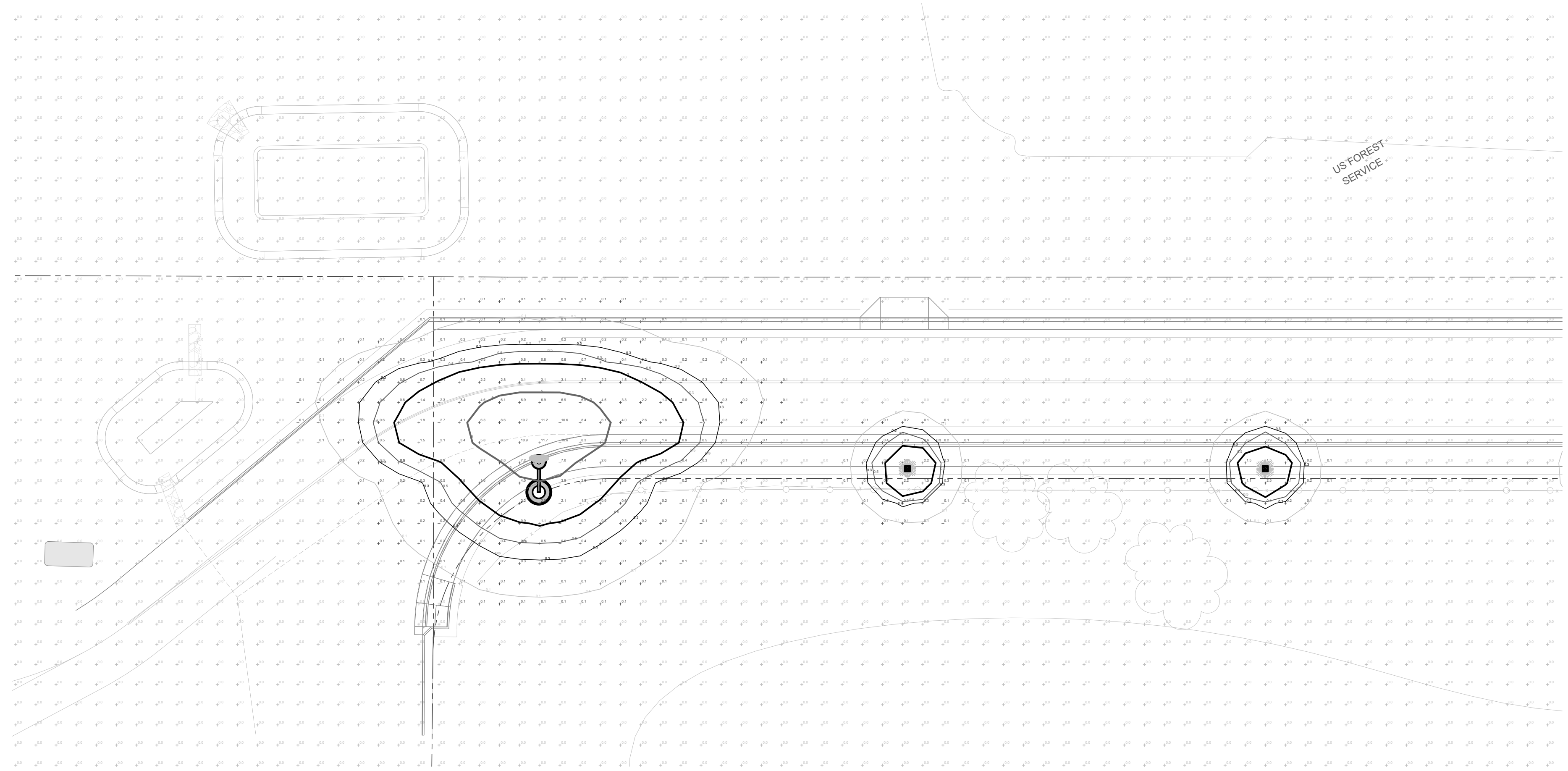
ELECTRONIC APPROVAL

SHEET NUMBER

E205

SHEET NOTES:

1 THIS PHOTOMETRIC CALCULATION WAS PREPARED BY THE ELECTRICAL ENGINEER OF RECORD USING VISUAL SOFTWARE VERSION 2020 AND THE SPECIFIED LIGHTING FIXTURE MANUFACTURER'S PUBLISHED PHOTOMETRIC '.IES' FILES. VALUES INDICATE EXPECTED LIGHTING LEVELS IN AVERAGE MAINTAINED FOOT-CANDLES AT GRADE/FLOOR LEVEL. NO CONTRIBUTIONS FROM OFF-SITE LIGHTING, DAY LIGHTING, OR OTHER AMBIENT LIGHTING IS CONSIDERED.



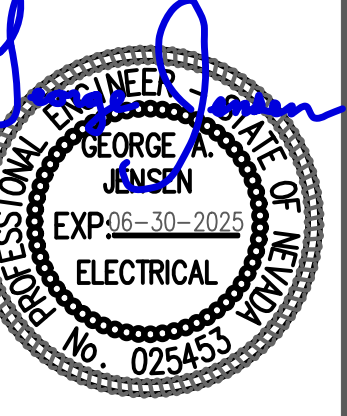
B PARTIAL SITE PHOTOMETRIC CALCULATION 1" = 20'-0"

JENSEN ENGINEERING INC.
 Electrical Engineers
 9655 Gateway Drive
 Reno, Nevada 86521-2968
 Tel: (775) 852-2286
 Fax: (775) 852-3086
 Web: www.jeneng.com
 Email: gerald@jeneng.com

No.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PHOTOMETRIC CALCULATIONS


 24 DEC 2024

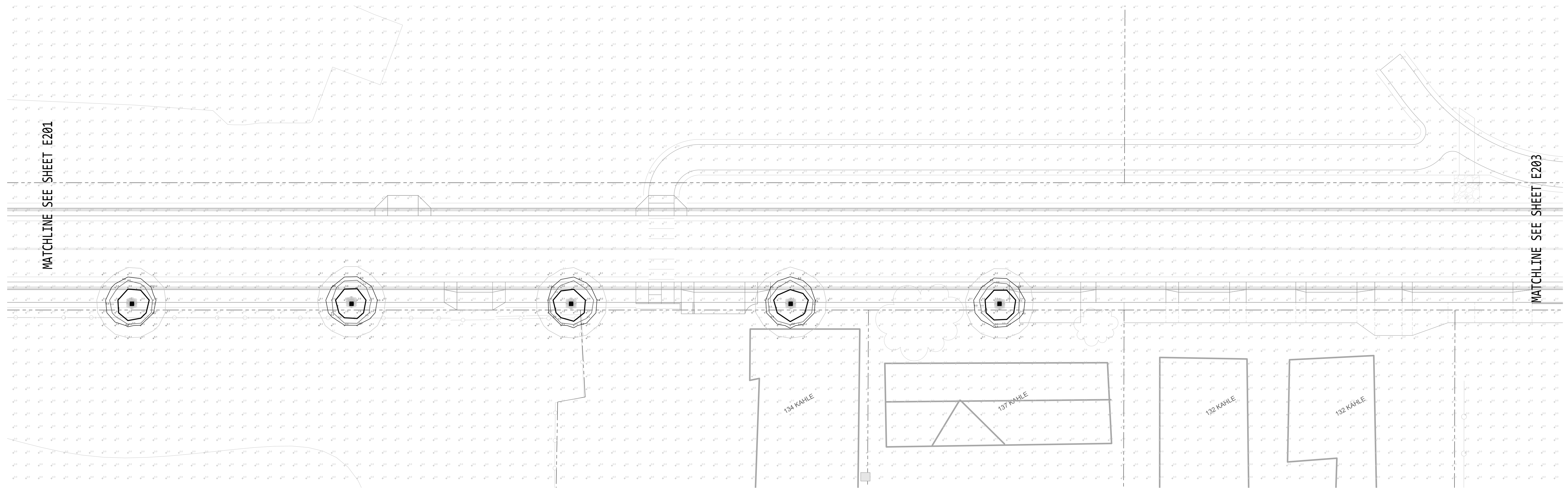
PRELIMINARY SET

DRAWN BY: CRS
 DESIGNED BY: SJM
 CHECKED: GAJ
 DATE: 24 DEC 2024
 PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E301

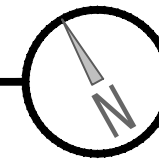


SHEET NOTES:

1 THIS PHOTOMETRIC CALCULATION WAS PREPARED BY THE ELECTRICAL ENGINEER OF RECORD USING VISUAL SOFTWARE VERSION 2020 AND THE SPECIFIED LIGHTING FIXTURE MANUFACTURER'S PUBLISHED PHOTOMETRIC '.IES' FILES. VALUES INDICATE EXPECTED LIGHTING LEVELS IN AVERAGE MAINTAINED FOOT-CANDLES AT GRADE/FLOOR LEVEL. NO CONTRIBUTIONS FROM OFF-SITE LIGHTING, DAY LIGHTING, OR OTHER AMBIENT LIGHTING IS CONSIDERED.

B PARTIAL SITE PHOTOMETRIC CALCULATION

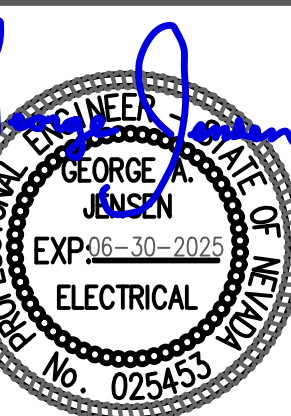
1" = 20'-0"



No.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PHOTOMETRIC CALCULATIONS



24 DEC 2024

PRELIMINARY SET

DRAWN BY: CRS

DESIGNED BY: SJM

CHECKED: GAJ

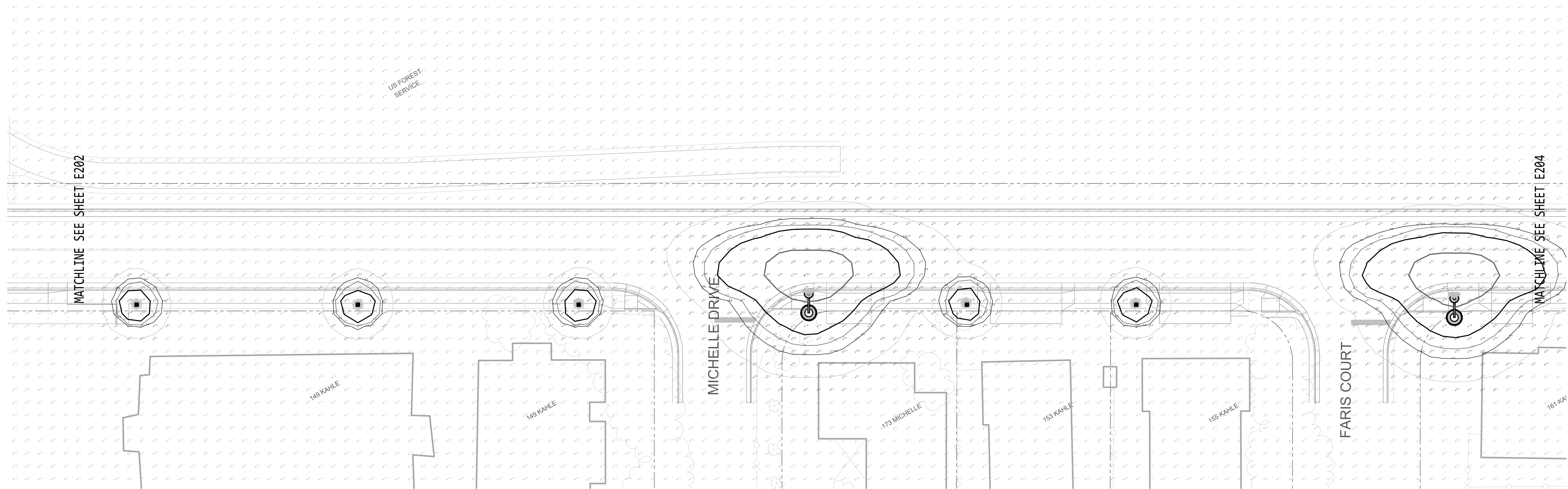
DATE: 24 DEC 2024

PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E302

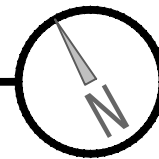


SHEET NOTES:

1 THIS PHOTOMETRIC CALCULATION WAS PREPARED BY THE ELECTRICAL ENGINEER OF RECORD USING VISUAL SOFTWARE VERSION 2020 AND THE SPECIFIED LIGHTING FIXTURE MANUFACTURER'S PUBLISHED PHOTOMETRIC '.IES' FILES. VALUES INDICATE EXPECTED LIGHTING LEVELS IN AVERAGE MAINTAINED FOOT-CANDLES AT GRADE/FLOOR LEVEL. NO CONTRIBUTIONS FROM OFF-SITE LIGHTING, DAY LIGHTING, OR OTHER AMBIENT LIGHTING IS CONSIDERED.

B PARTIAL SITE PHOTOMETRIC CALCULATION

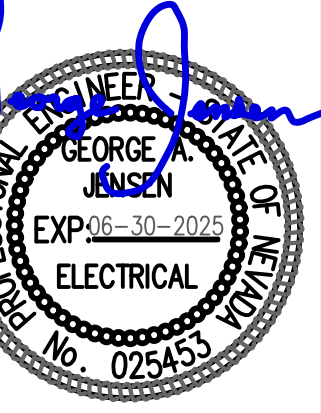
1" = 20'-0"



No.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PHOTOMETRIC CALCULATIONS



24 DEC 2024

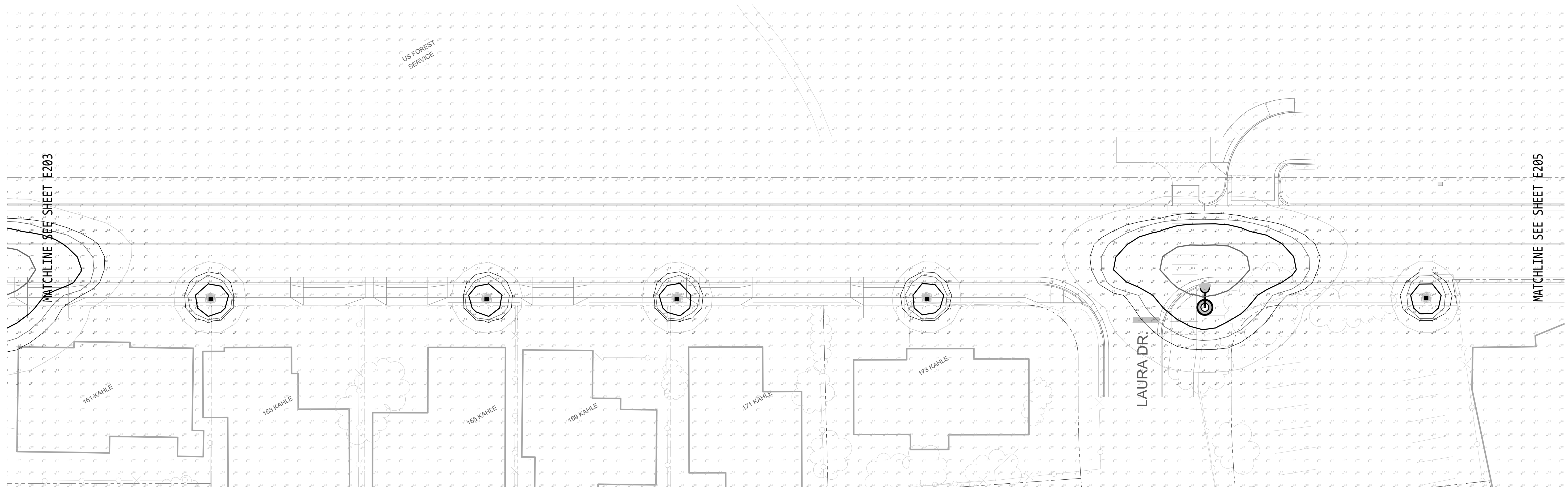
PRELIMINARY SET

DRAWN BY: CRS
 DESIGNED BY: SJM
 CHECKED: GAJ
 DATE: 24 DEC 2024
 PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E303



SHEET NOTES:

1 THIS PHOTOMETRIC CALCULATION WAS PREPARED BY THE ELECTRICAL ENGINEER OF RECORD USING VISUAL SOFTWARE VERSION 2020 AND THE SPECIFIED LIGHTING FIXTURE MANUFACTURER'S PUBLISHED PHOTOMETRIC '.IES' FILES. VALUES INDICATE EXPECTED LIGHTING LEVELS IN AVERAGE MAINTAINED FOOT-CANDLES AT GRADE/FLOOR LEVEL. NO CONTRIBUTIONS FROM OFF-SITE LIGHTING, DAY LIGHTING, OR OTHER AMBIENT LIGHTING IS CONSIDERED.

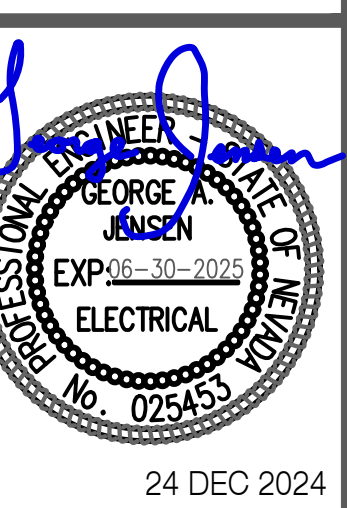
B PARTIAL SITE PHOTOMETRIC CALCULATION
 1" = 20'-0"

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NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PHOTOMETRIC CALCULATIONS



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PRELIMINARY SET

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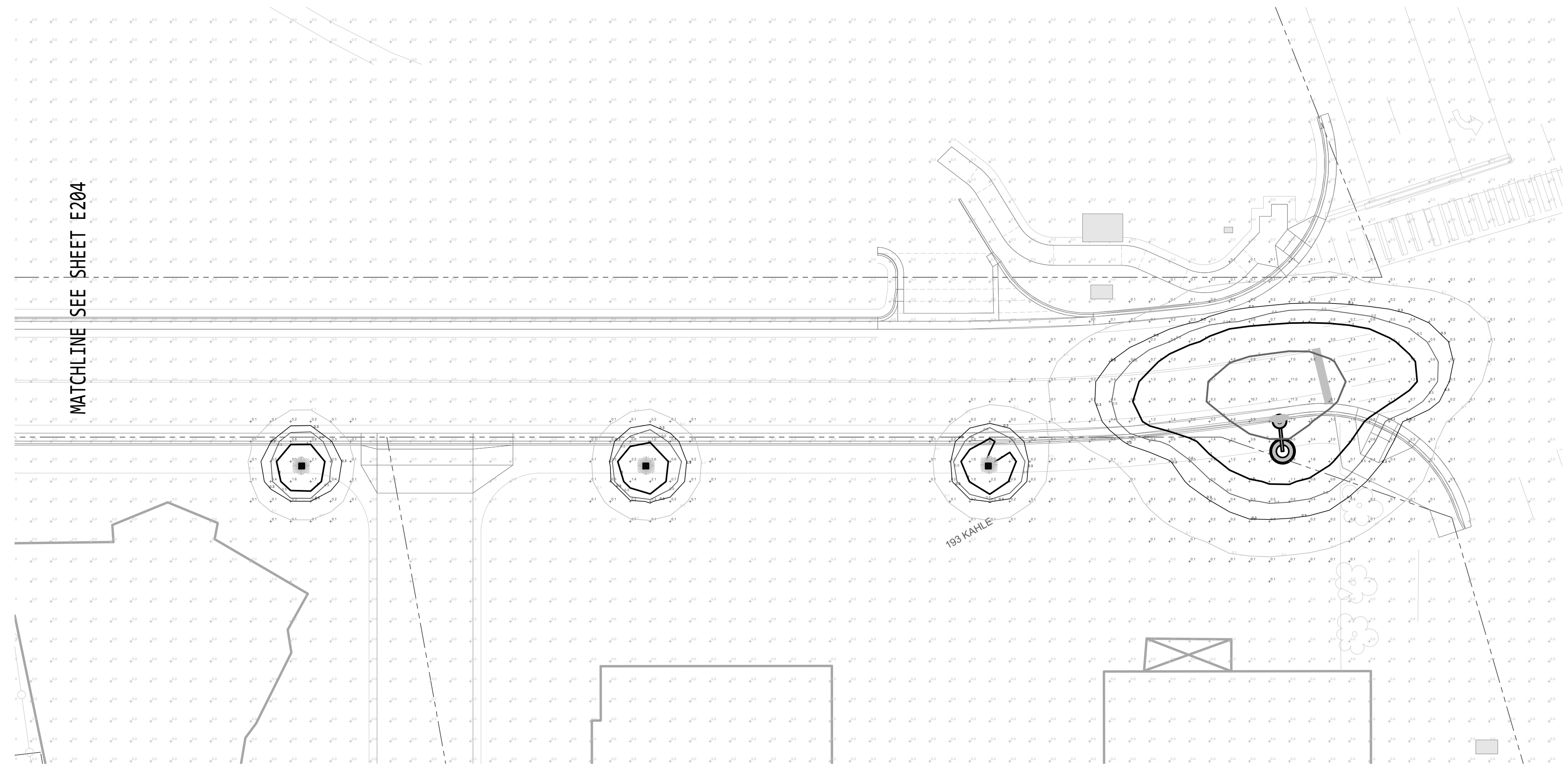
ELECTRONIC APPROVAL

SHEET NUMBER

E304

SHEET NOTES:

① THIS PHOTOMETRIC CALCULATION WAS PREPARED BY THE ELECTRICAL ENGINEER OF RECORD USING VISUAL SOFTWARE VERSION 2020 AND THE SPECIFIED LIGHTING FIXTURE MANUFACTURER'S PUBLISHED PHOTOMETRIC '.IES' FILES. VALUES INDICATE EXPECTED LIGHTING LEVELS IN AVERAGE MAINTAINED FOOT-CANDLES AT GRADE/FLOOR LEVEL. NO CONTRIBUTIONS FROM OFF-SITE LIGHTING, DAY LIGHTING, OR OTHER AMBIENT LIGHTING IS CONSIDERED.



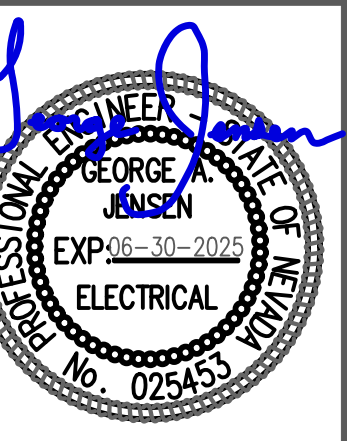
B PARTIAL SITE PHOTOMETRIC CALCULATION
1" = 20'-0"

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No.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE COMPLETE STREETS PROJECT

PARTIAL SITE PHOTOMETRIC CALCULATIONS



24 DEC 2024

PRELIMINARY SET

DRAWN BY: CRS

DESIGNED BY: SJM

CHECKED: GAJ

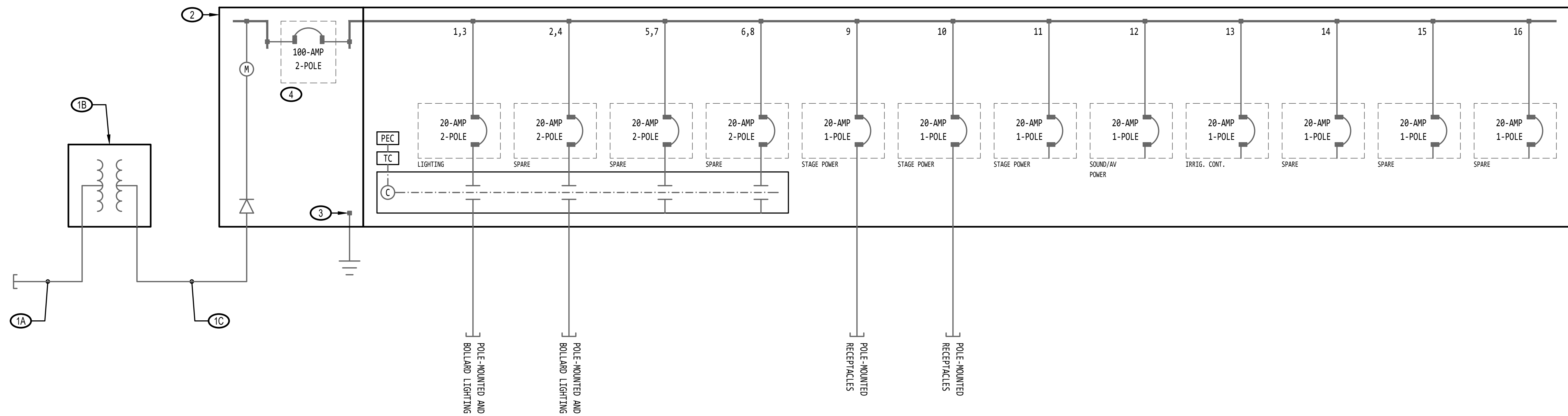
DATE: 24 DEC 2024

PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E305



A ELECTRICAL POWER DISTRIBUTION SYSTEM SINGLE-LINE DIAGRAM
NOT TO SCALE

SHEET NOTES

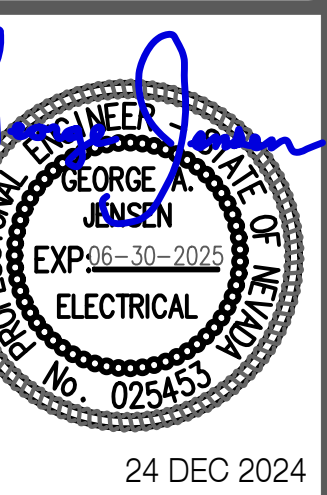
- 1. COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AS REQUIRED FOR INSTALLATION OF NEW ELECTRICAL UTILITY SERVICE ENTRANCE. PROVIDE AND INSTALL SERVICE ENTRANCE ELEMENTS AS FOLLOWS:
 - A. TWO 4" CONDUITS FROM EXISTING UTILITY INFRASTRUCTURE TO NEW UTILITY TRANSFORMER. VERIFY LOCATION OF EXISTING UTILITY INFRASTRUCTURE.
 - B. REINFORCED CONCRETE HOUSEKEEPING PAD PER UTILITY STANDARDS FOR NEW UTILITY TRANSFORMER. VERIFY LOCATION OF NEW UTILITY TRANSFORMER.
 - C. TWO 4" CONDUITS FROM NEW UTILITY TRANSFORMER TO NEW MAIN ELECTRICAL SERVICE EQUIPMENT. VERIFY LOCATION OF NEW UTILITY TRANSFORMER.
- 2. COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED FOR INSTALLATION OF NEW MAIN ELECTRICAL SERVICE EQUIPMENT. PROVIDE AND INSTALL SERVICE EQUIPMENT INCLUDING SEISMIC CONTROL ELEMENTS PER MANUFACTURER'S INSTRUCTIONS. TESCO #27-100, B-LINE #CMP4921MC, OR APPROVED EQUIVALENT ELECTRICAL SERVICE PEDESTAL. 100-AMP MAIN CIRCUIT BREAKER, 120/240-VOLT, 1-PHASE/3-WIRE, NEMA 3R. ENCLOSED MODULAR METER/MAIN SERVICE PEDESTAL. PROVIDE AND INSTALL COMPLETE WITH INTEGRAL 16-CIRCUIT PANEL ('MM'), EIGHT-POLE CONTACTOR WITH 120V COIL, 120-VOLT PHOTO-CELL, H.O.A. SWITCH, AND TIME CLOCK. PEDESTAL SHALL HAVE A RAL 6012 FINISH.
- 3. ELECTRICAL CONTRACTOR SHALL GROUND MAIN ELECTRICAL SERVICE EQUIPMENT PER NEC ARTICLE 250. PROVIDE AND INSTALL MAIN BONDING JUMPER SIZED PER NEC TABLE 250.102(C)(1) AND BOND SERVICE EQUIPMENT NEUTRAL BUS TO SERVICE EQUIPMENT GROUND BUS. PROVIDE AND INSTALL GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC TABLE 250.66 AND BOND SERVICE EQUIPMENT GROUND BUS TO ALL AVAILABLE APPROVED GROUNDING ELECTRODES PER NEC 250.52.
- 4. PROVIDE AND INSTALL MAIN ELECTRICAL SERVICE WITH PERMANENTLY ATTACHED PHENOLIC NAMEPLATE STATING "SERVICE DISCONNECT" ADJACENT THE MAIN CIRCUIT BREAKER.

1-Phase, 3-Wire, Electrical Panelboard Schedule by Jensen Engineering, Inc.																									
Project Name: KAHLÉ DRIVE			Line to Neutral Voltage: 120			Bus Material: COPPER			Short Circuit Rating:																
Panel Name: KD			Line to Line Voltage: 240			Bus Rating: 125 AMP			New or Existing: NEW																
Panel Location:			Main Breaker or Lug Only:			Lug/Breaker Rating: 100 AMP			Mounting: SURFACE																
Ckt. No.	Load (VA)	Description	Load Power Factor	One-Way Ckt Length (ft)	Wire Size (AWG)	Corrected Z (D-to-Neutral)	VDROP (%)	Breaker		Phase		Lug/Breaker Rating		VDROP (%)	Corrected Z (D-to-Neutral)	Wire Size (AWG)	One-Way Ckt Length (ft)	Load Power Factor	Description	Load (VA)	Ckt. No.				
								Poles	Trip	A	B	Trip	Poles												
1	350	STREET LIGHTING	0.7					2	20			20	2					0.7	STREET LIGHTING	350	2				
3	350							1	20			20	1					0.6	POLE MOUNT RECEPTACLE	200	4				
5	800	POLE MOUNT RECEPTACLES	0.6					1	20			20	1					0.6	POLE MOUNT RECEPTACLE	200	6				
7								1	20			20	1								8				
9								1	20			20	1								10				
11								1	20			20	1								12				
1150	350	Total Load (VA)						Notes: 1. Voltage drop calculated using Neher-McGrath method. 2. Resistance and Reactance taken from NEC/CEC Chapter 9, Table 9. 3. Conductor length estimated for voltage-drop calculation only. Not to be used for pricing.																	
																			Total Load (VA):	550	350				
																			+25% of Largest Motor Load (VA):	0	0				
																			Combined Total Load (VA):	1700	700				
																			Average Line Current (Amps):	14.17	5.83				
																			Average Total Current (Amps):	10.00					
																			Total Connected Load (kVA):	2.40					

No.	REVISIONS DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS PROJECT
KAHLÉ DRIVE COMPLETE STREETS PROJECT

SINGLE-LINE DIAGRAM / SCHEDULES



24 DEC 2024

PRELIMINARY SET

DRAWN BY: CRS
DESIGNED BY: SJM
CHECKED: GAJ
DATE: 24 DEC 2024
PROJECT NO: G03724CF
ELECTRONIC APPROVAL

SHEET NUMBER

E401

"KD" CONDUIT & BRANCH CIRCUIT SCHEDULE							
FDR NO.	QUANTITY PARALLEL	CONDUIT	CIRCUIT NUMBER	CONDUCTORS	LOAD VOLTAGE	LOAD AMPS	SEGMENT Vd (%)
1	1	1"	1,3	(2) - #8 (H,H.) - LIGHTING	240	2.434	0.31
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	6.667	0.4
			G	(1) - #8 GROUND	--	--	--
2	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	2.075	0.46
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	5	1.29
			G	(1) - #8 GROUND	--	--	--
3	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	1.559	0.46
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	5	1.29
			G	(1) - #8 GROUND	--	--	--
4	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	1.875	0.74
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	5	1.29
			G	(1) - #8 GROUND	--	--	--
5	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	1.517	0.45
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	3.334	1.53
			G	(1) - #8 GROUND	--	--	--
6	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	1.417	0.5
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	3.334	1.53
			G	(1) - #8 GROUND	--	--	--
7	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	1.317	0.33
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	3.334	1.53
			G	(1) - #8 GROUND	--	--	--
8	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	1.217	0.39
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	3.334	1.53
			G	(1) - #8 GROUND	--	--	--
9	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	1.117	0.39
			5	(2) - #8 (H,N.) - POLE RECEPTACLE	120	3.334	1.53
			G	(1) - #8 GROUND	--	--	--
10	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	0.759	0.22
			5	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	1.06
			G	(1) - #8 GROUND	--	--	--
11	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	0.659	0.19
			5	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	1.06
			G	(1) - #8 GROUND	--	--	--
12	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	0.559	0.16
			5	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	1.06
			G	(1) - #8 GROUND	--	--	--
13	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	0.459	0.13
			5	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	1.06
			G	(1) - #8 GROUND	--	--	--
14	1	1"	1,3	(2) - #10 (H,H.) - LIGHTING	240	0.359	0.09
			5	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	1.06
			G	(1) - #8 GROUND	--	--	--
TOTAL Vd% AT LAST DEVICE					CIRCUIT 1,3	4.84	
					CIRCUIT 5	4.28	
NOTES:							
1. ALL PVC CONDUIT STRAIGHT RUNS SHALL BE SCHEDULE 40.							
2. ALL PVC BENDS SHALL BE SCHEDULE 80.							
3. ALL PVC CONDUIT SHALL CARRY A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR.							
4. ALL CONDUCTORS SHALL BE COPPER WITH <u>XHHW-2</u> 90 DEG C. RATED INSULATION.							
5. ALL UTILITY CONDUITS SHALL BE INSTALLED ACCORDING TO UTILITY COMPANY STANDARDS.							
6. CONDUCTOR LENGTHS ARE FOR ENGINEER'S PURPOSE ONLY AND ARE NOT TO BE USED FOR BIDDING							

"KD" CONDUIT & BRANCH CIRCUIT SCHEDULE							
FDR NO.	QUANTITY PARALLEL	CONDUIT	CIRCUIT NUMBER	CONDUCTORS	LOAD VOLTAGE	LOAD AMPS	SEGMENT Vd (%)
15	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	1.359	0.54
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
16	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	1.259	0.37
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
17	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	1.159	0.34
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
18	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	1.059	0.28
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
19	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	0.959	0.28
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
20	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	0.859	0.25
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
21	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	0.759	0.22
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
22	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	0.659	0.19
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
23	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	0.559	0.16
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
24	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	0.459	0.13
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	--
			G	(1) - #8 GROUND	--	--	--
25	1	1"	2,4	(2) - #10 (H,H.) - LIGHTING	240	0.359	0.11
			6	(2) - #10 (H,N.) - POLE RECEPTACLE	120	1.667	3.38
			G	(1) - #8 GROUND	--	--	--
TOTAL Vd% AT LAST DEVICE					CIRCUIT 2,4	3.38	
					CIRCUIT 6	2.24	
NOTES:							
1. ALL PVC CONDUIT STRAIGHT RUNS SHALL BE SCHEDULE 40.							
2. ALL PVC BENDS SHALL BE SCHEDULE 80.							
3. ALL PVC CONDUIT SHALL CARRY A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR.							
4. ALL CONDUCTORS SHALL BE COPPER WITH <u>XHHW-2</u> 90 DEG C. RATED INSULATION.							
5. ALL UTILITY CONDUITS SHALL BE INSTALLED ACCORDING TO UTILITY COMPANY STANDARDS.							
6. CONDUCTOR LENGTHS ARE FOR ENGINEER'S PURPOSE ONLY AND ARE NOT TO BE USED FOR BIDDING							

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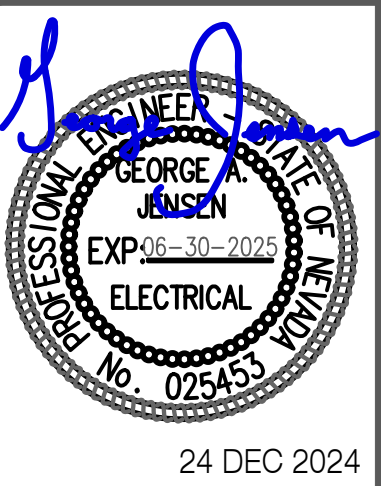
No.	DESCRIPTION	DATE	BY

REVISIONS

NEW STREET LIGHTING FOR COMPLETE STREETS PROJECT

KAHLE DRIVE COMPLETE STREETS PROJECT

ELECTRICAL CONDUIT AND BRANCH CIRCUIT SCHEDULE



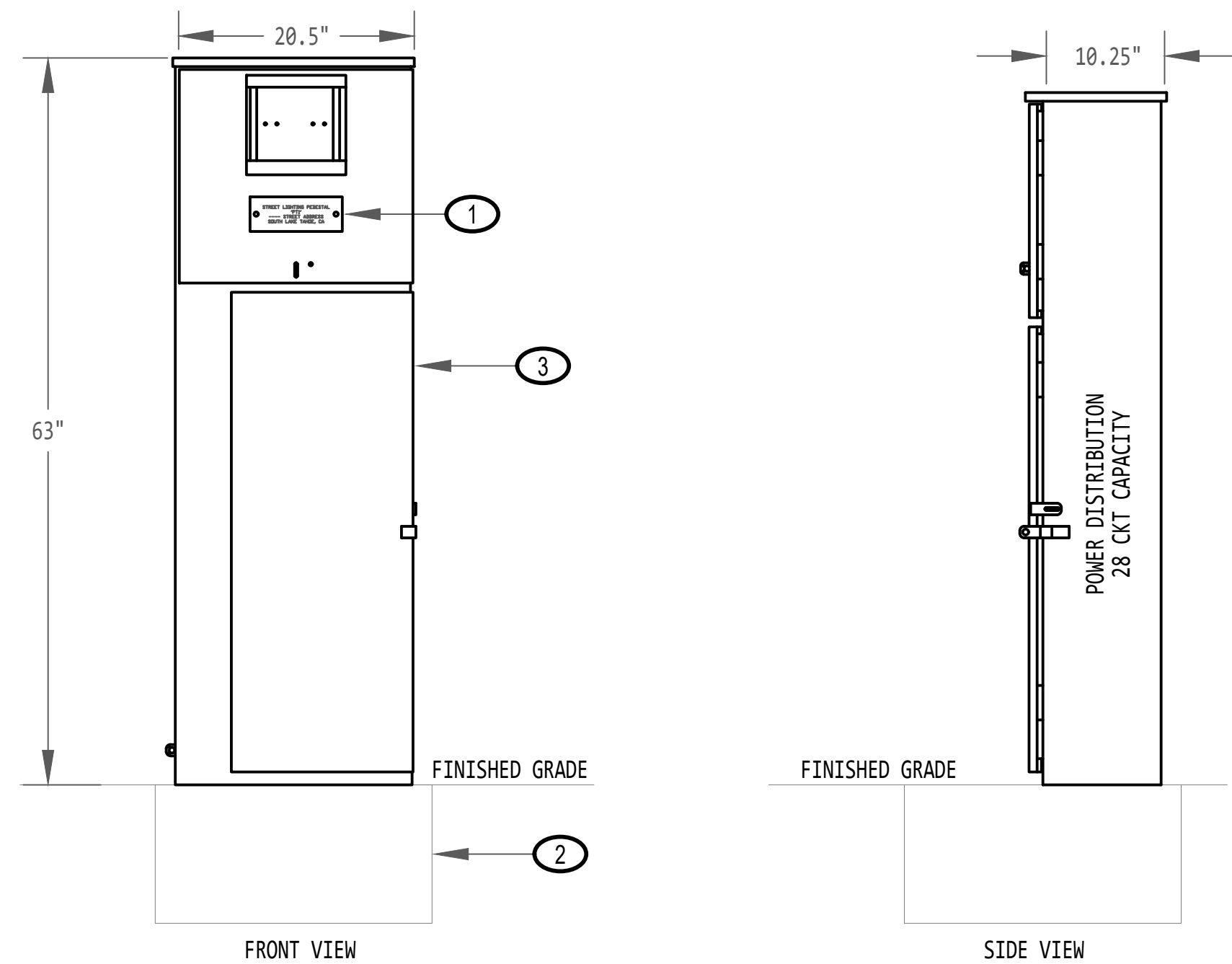
24 DEC 2024

PRELIMINARY SET

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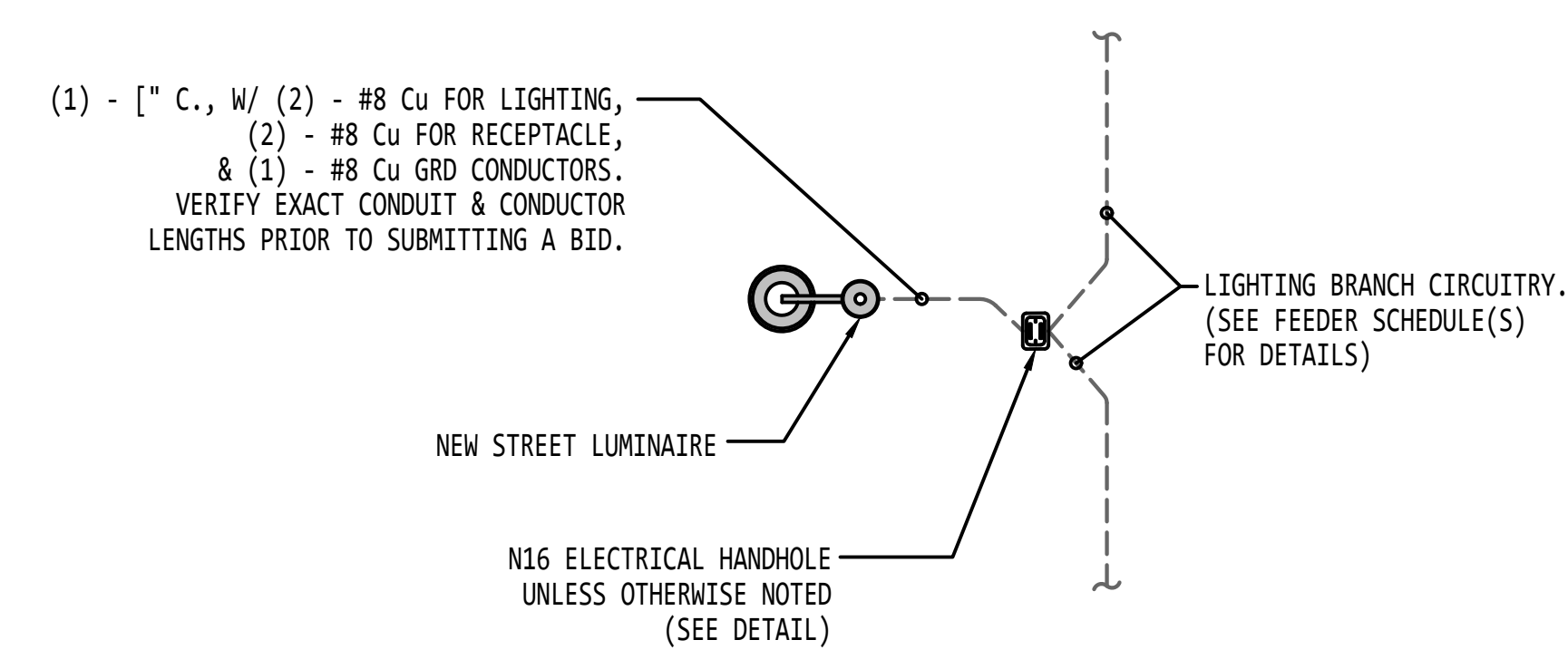
E402



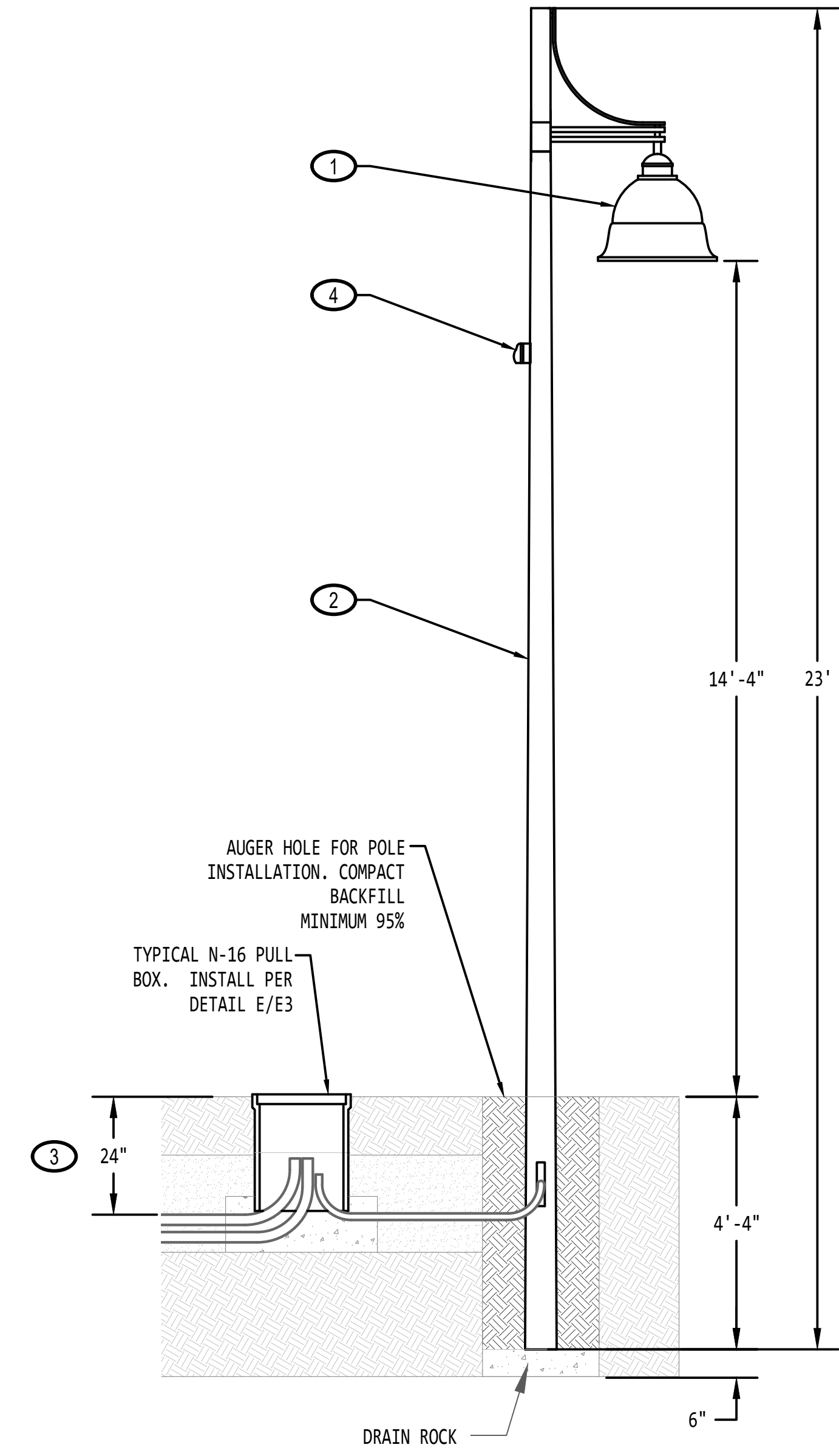
A TYPICAL METER PEDESTAL DETAIL
NOT TO SCALE

TYPICAL METER PEDESTAL NOTES

- ① PROVIDE AND INSTALL A SCREW-ON 3"x8" ENGRAVED PHENOLIC NAMEPLATE WITH 1/4" CHARACTERS ON THE CENTER OF THE NEW METERING PEDESTAL STATING THE UTILITY SERVICE ADDRESS INCLUDING STREET NUMBER, CITY, STATE, AND ZIP CODE.
- ② REINFORCED CONCRETE MOUNTING PAD. SEE CIVIL DRAWINGS FOR EXACT MOUNTING PAD REQUIREMENTS.
- ③ PEDESTAL SHALL HAVE A RAL 6012 BLACK GREEN FINISH.



B TYPICAL STREET LUMINAIRE DETAIL
NOT TO SCALE



C TYPICAL LUMINAIRE ELEVATION DETAIL
NOT TO SCALE

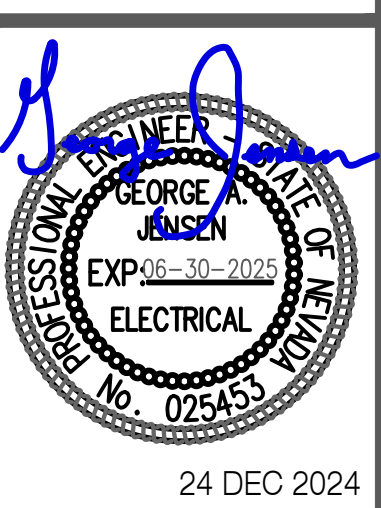
TYPICAL LUMINAIRE ELEVATION NOTES

- ① DECORATIVE STREET LIGHTING FIXTURE AND MOUNTING ARM. CYCLONE LIGHTING #SY21P1-FGC-T2-P60-40K- (RAL 6012) IN BLACK GREEN FINISH WITH 80W LED ARRAY. LUMINAIRE COMPONENTS (MOUNTING ARM & FIXTURE HEAD) PROPOSED MEET THE REQUIREMENTS OF THE CITY OF SOUTH LAKE TAHOE STANDARD STREET LIGHTING FIXTURE AND IS APPROVED FOR USE ON THIS PROJECT. ANY SUBSTITUTED LUMINAIRE COMPONENTS (MOUNTING ARM & FIXTURE HEAD) MUST BE ACCEPTED BY CITY OF SOUTH LAKE TAHOE REPRESENTATIVE PRIOR TO SUBMITTING A BID.
- ② DIRECT EMBEDDED, SQUARE-TAPERED CONCRETE POLE. CYCLONE POLE #TH-220-A-3-DB-20-R. LUMINAIRE COMPONENTS (MOUNTING ARM & FIXTURE HEAD) PROPOSED MEET THE REQUIREMENTS OF THE CITY OF SOUTH LAKE TAHOE STANDARD STREET LIGHTING FIXTURE AND IS APPROVED FOR USE ON THIS PROJECT. ANY SUBSTITUTED LUMINAIRE COMPONENTS (POLE) MUST BE ACCEPTED BY CITY OF SOUTH LAKE TAHOE REPRESENTATIVE PRIOR TO SUBMITTING A BID.
- ③ UNDERGROUND ELECTRICAL LIGHTING SYSTEM CONDUITS AND WIRING SHALL BE MINIMUM 24" BELOW FINISHED GRADE.
- ④ GFCI RECEPTACLE FACTORY MOUNTED ON CONCRETE POLE. RECEPTACLE SHALL BE MOUNTED APPROXIMATELY 13'-6" ABOVE FINISHED GRADE AND EQUIPPED WITH A METAL WEATHER PROOF "IN-USE" COVER. RECEPTACLE AND "IN USE" COVER SHALL HAVE (RAL 6012) BLACK GREEN FINISH TO MATCH LUMINAIRE.
- ⑤ LIGHTING POLE WIRING COLOR CODE SHALL BE AS FOLLOWS:
LIGHTS: BLACK AND RED
RECEPTACLES: BLUE AND WHITE
GROUND: GREEN

REVISIONS	No.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS
KAHLE DRIVE
COMPLETE STREETS PROJECT

ELECTRICAL DETAILS



24 DEC 2024

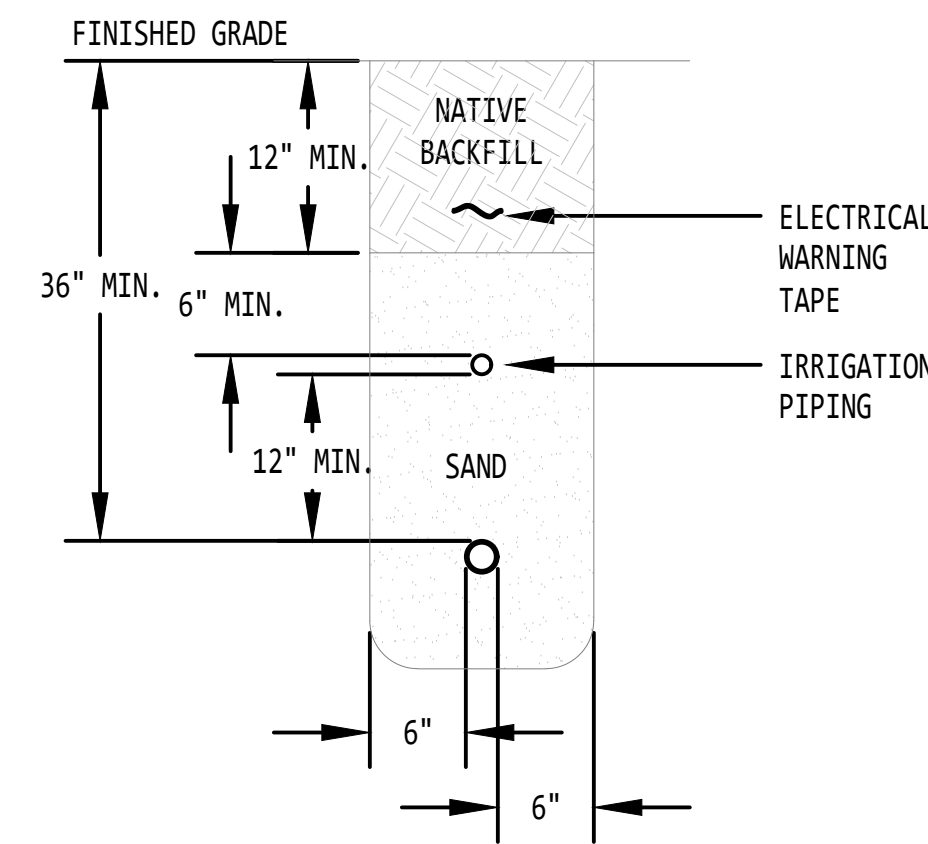
PRELIMINARY SET

DRAWN BY: CRS
DESIGNED BY: SJM
CHECKED: GAJ
DATE: 24 DEC 2024
PROJECT NO: G03724CF

ELECTRONIC APPROVAL

SHEET NUMBER

E501

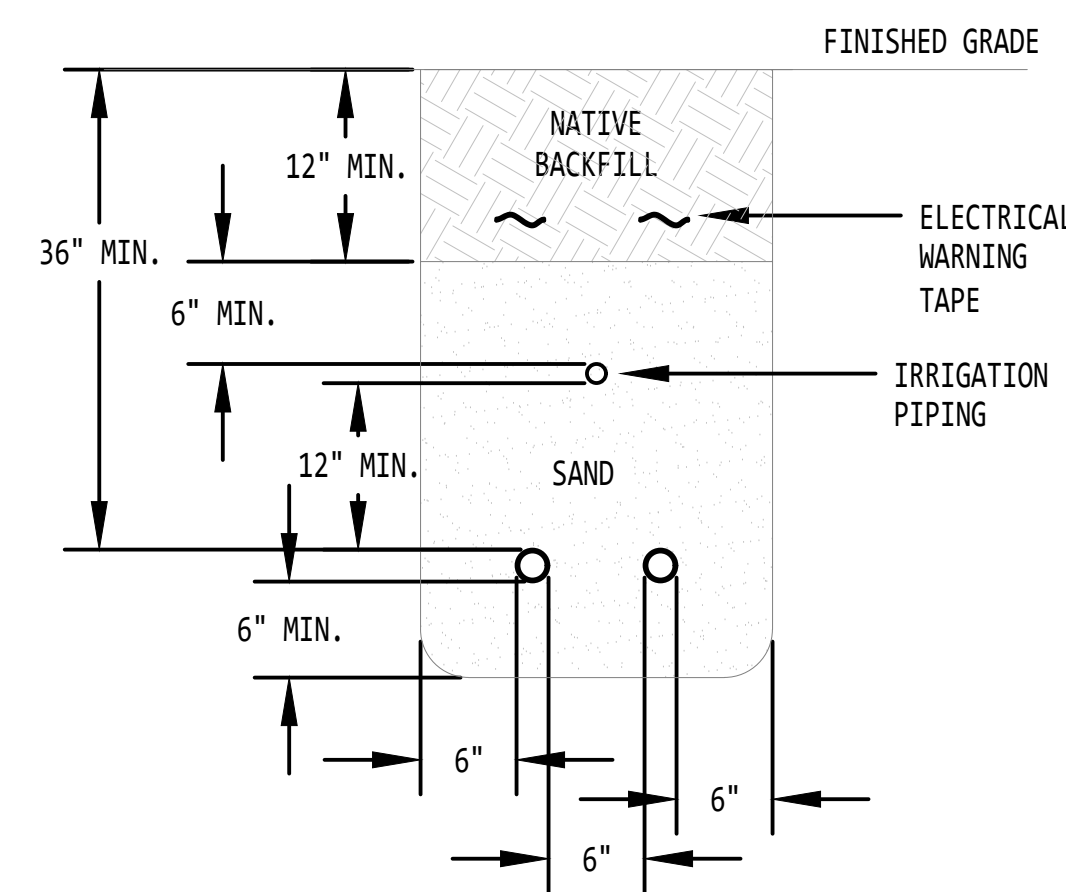


A TYPICAL TRENCH DETAIL
(1) CONDUIT NOT TO SCALE

**A JOINT TRENCH SHALL BE USED FOR ELECTRIC AND IRRIGATION MAINS.

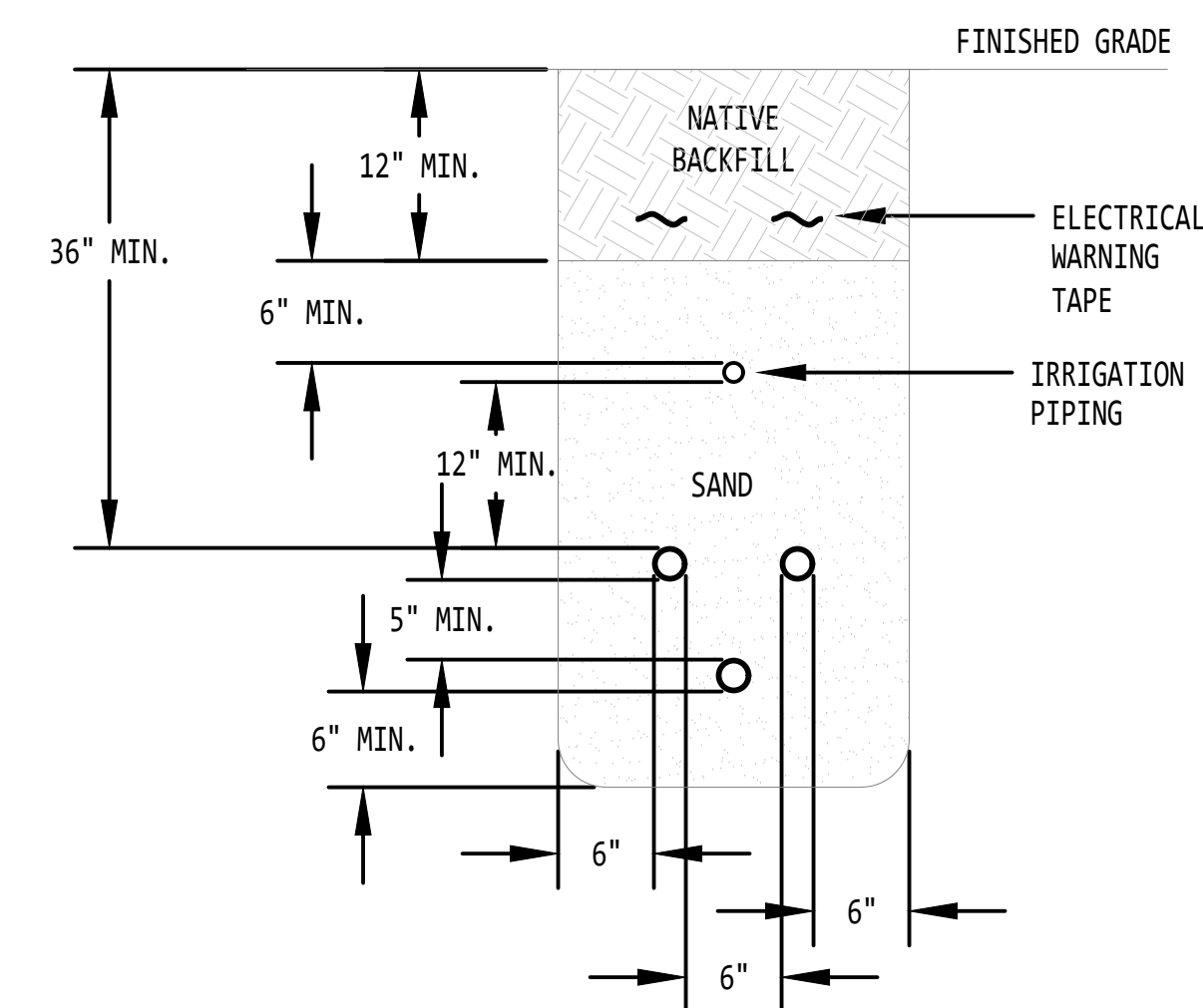
TYPICAL TRENCH DETAIL NOTES: (THIS DETAIL ONLY)

- 1 SLURRY BACKFILL, TYPE A (EXCAVATABLE) IS REQUIRED WHEN CONDUIT SEPARATION IS LESS THAN 24" FROM WATERLINE. SLURRY CEMENT SHALL EXTEND 10' MINIMUM ON EITHER SIDE OF WATERLINE.



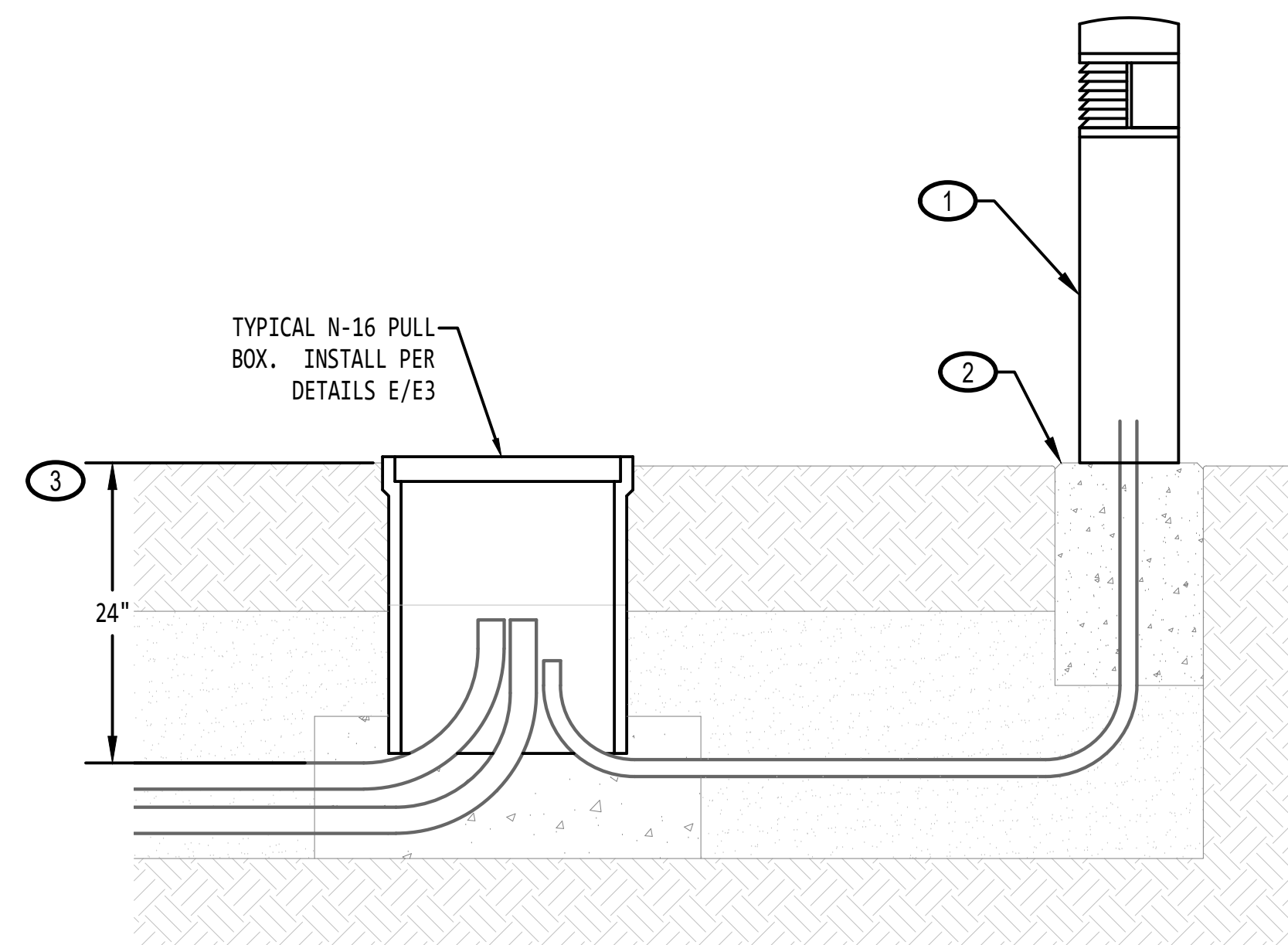
B TYPICAL TRENCH DETAIL
(2) CONDUITS NOT TO SCALE

**A JOINT TRENCH SHALL BE USED FOR ELECTRIC AND IRRIGATION MAINS.



C TYPICAL TRENCH DETAIL
NOT TO SCALE

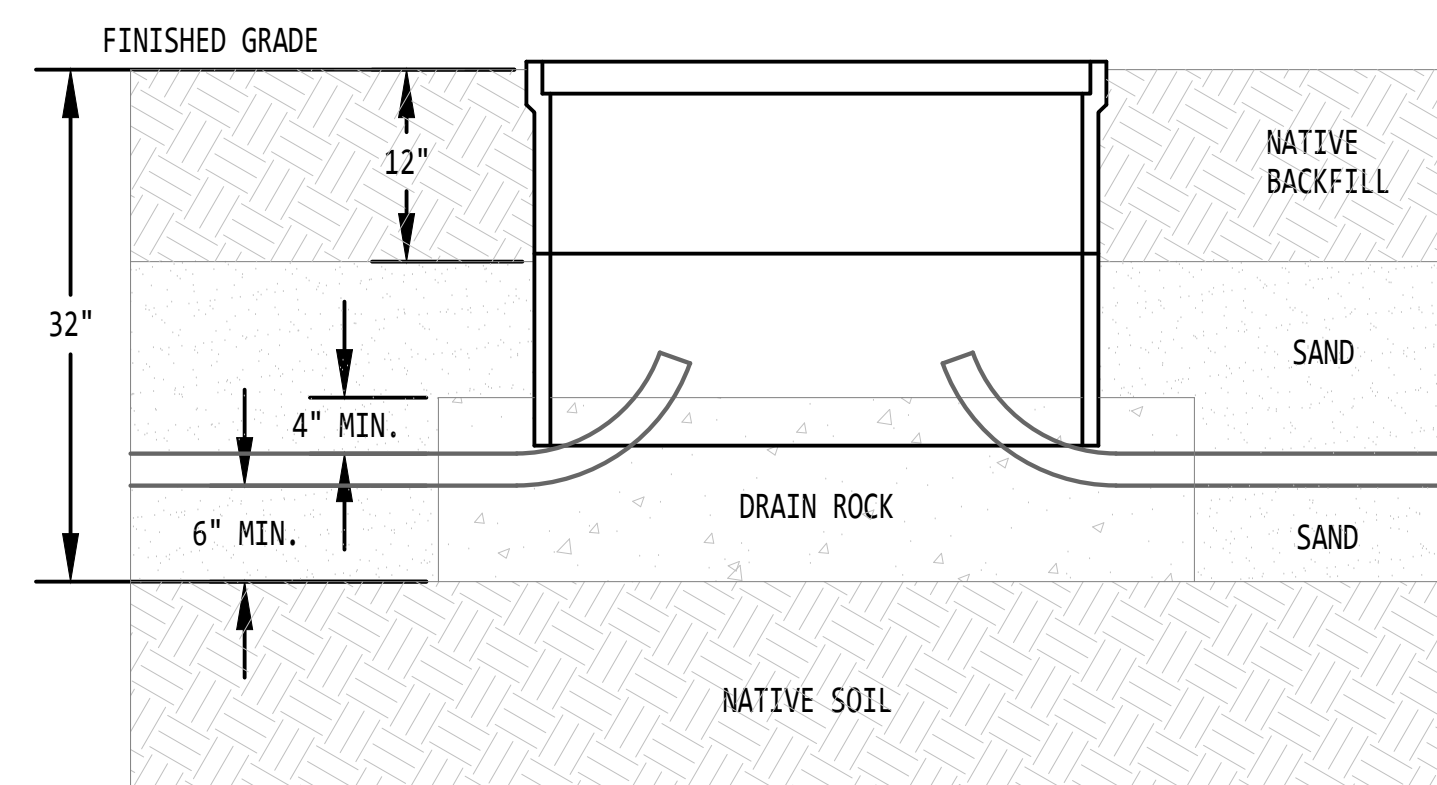
**A JOINT TRENCH SHALL BE USED FOR ELECTRIC AND IRRIGATION MAINS.



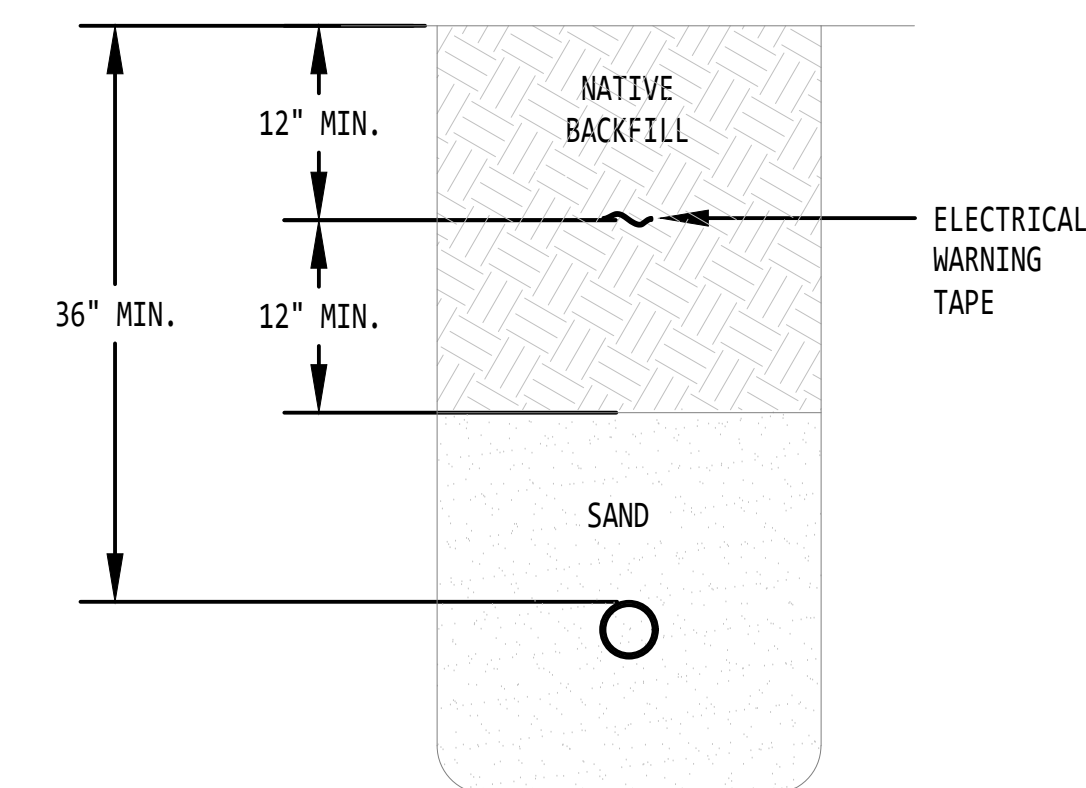
D BOLLARD LUMINAIRE DETAIL
NOT TO SCALE

BOLLARD LUMINAIRE DETAIL NOTES: (THIS DETAIL ONLY)

- 1 DECORATIVE LIGHTING BOLLARD. AMERON #L20-Q-C-C-04-LE (RAL 6012) IN BLACK GREEN FINISH WITH 40W LED ARRAY AND HOUSE SIDE SHIELD. LUMINAIRE COMPONENTS PROPOSED MEET THE REQUIREMENTS OF THE CITY OF SOUTH LAKE TAHOE STANDARD STREET LIGHTING FIXTURE AND IS APPROVED FOR USE ON THIS PROJECT. ANY SUBSTITUTED LUMINAIRE COMPONENTS MUST BE ACCEPTED BY CITY OF SOUTH LAKE TAHOE REPRESENTATIVE PRIOR TO SUBMITTING A BID.
- 2 DIRECT EMBEDDED CONCRETE BASE. AMERON #B-B-Q-08-42-LC. LUMINAIRE COMPONENTS PROPOSED MEET THE REQUIREMENTS OF THE CITY OF SOUTH LAKE TAHOE STANDARD STREET LIGHTING FIXTURE AND IS APPROVED FOR USE ON THIS PROJECT. ANY SUBSTITUTED LUMINAIRE COMPONENTS MUST BE ACCEPTED BY CITY OF SOUTH LAKE TAHOE REPRESENTATIVE PRIOR TO SUBMITTING A BID.
- 3 UNDERGROUND ELECTRICAL LIGHTING SYSTEM CONDUITS AND WIRING SHALL BE MINIMUM 24" BELOW FINISHED GRADE.
- 4 LIGHTING BOLLARD WIRING COLOR CODE SHALL BE AS FOLLOWS:
LIGHTS: BLACK AND RED
GROUND: GREEN



E TYPICAL ELECTRICAL HANDHOLE DETAIL
NOT TO SCALE



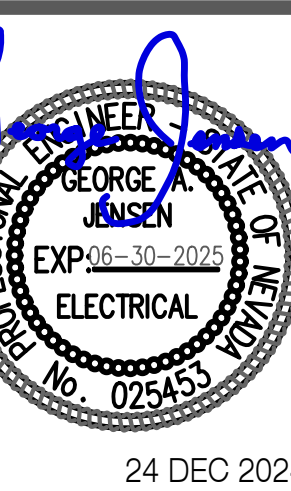
F TYPICAL TRENCH UTILITY SECONDARY CONDUIT
NOT TO SCALE



REVISIONS	NO.	DESCRIPTION	DATE	BY

NEW STREET LIGHTING FOR COMPLETE STREETS KAHALE DRIVE COMPLETE STREETS PROJECT

ELECTRICAL DETAILS (CONTINUED)



PRELIMINARY SET

DRAWN BY: CRS
DESIGNED BY: SJM
CHECKED: GAJ
DATE: 24 DEC 2024
PROJECT NO: G03724CF
ELECTRONIC APPROVAL

SHEET NUMBER

E502

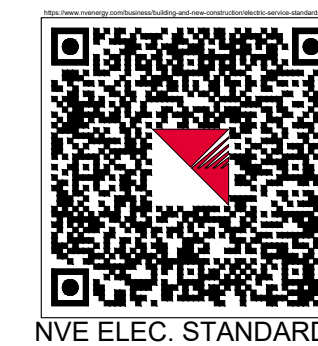
THIS PROJECT IS LOCATED WITHIN A TIER 3 FIRE AREA

OUTAGE REQUIRED

TRAFFIC CONTROL REQUIRED



E - KAHLE DR - FP - RELO - E - DOUGLAS COUNTY 3010395842



NVE ELEC. STANDARDS

N



DRAWING	DESIGNED BY	DATE
BASE	YANG CHEN	06/13/2024
ELECTRIC	YANG CHEN	07/10/2024
GAS		

REVIEWED BY:			
Utility Designer	Engineer	Design Administrator	Design Facilitator
		MTR	
07/24/2024			

NO.	REVISION	DESCRIPTIONS	DATE	DI
1				
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5				
6				
7				

Call before you dig
Avoid cutting underground utility lines. It's the easy way.

Call 1-702-227-2929

Call before you dig
811

P.O. Box 10100
R77CSE
Reno, NV, 89520-0024



NV ENERGY CONTACT INFORMATION:

COORDINATOR: CORY HEMBREE
OFFICE: # (775) 834-2910
CELL: # (775) 508-8610
FAX: #
EMAIL: CORY.HEMBREE@NVEENERGY.COM
DESIGNER: YANG CHEN
INSPECTION HOTLINE#: (775) 834-2977

CUSTOMER CONTACT INFORMATION:

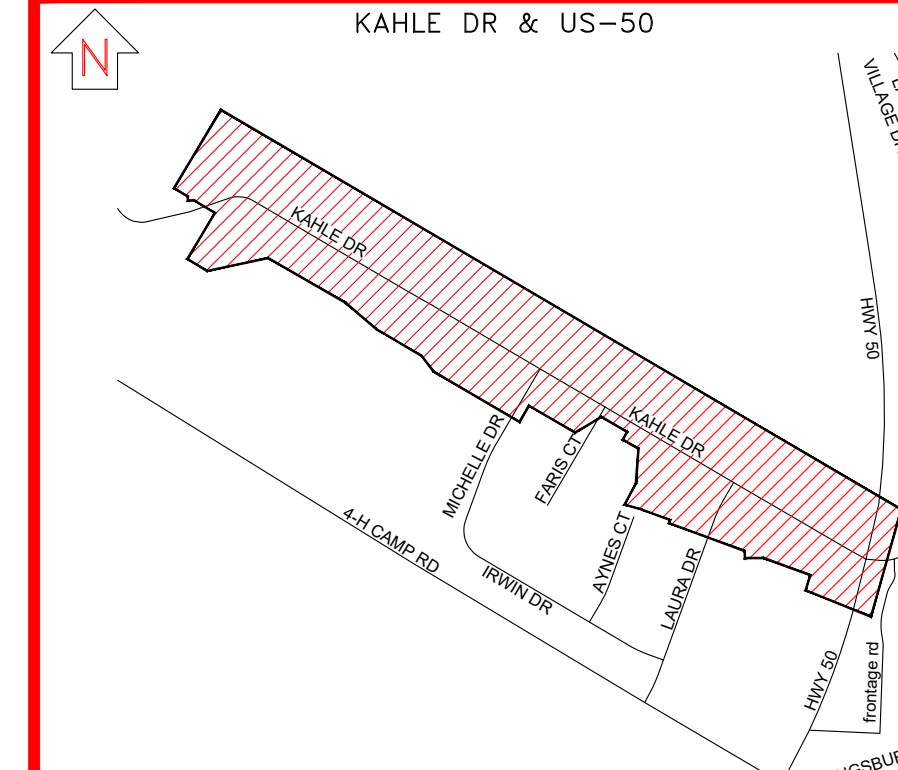
CUSTOMER: DOUGLAS COUNTY
ATTENTION: PATRICK CATES
PHONE: # (775) 782-9821
FAX: # (775) 782-6255
EMAIL: PCATES@DOUGLASNV.US

CUST REP: # MEGHAN KELLY - NTCDC
PHONE: # (775) 586-1610
EMAIL: MKELLY@NTDC.ORG

TOWNSHIP-RANGE-SECTION	APX#
1318-22 1318-23	VARIOUS

SOURCE INFORMATION:

1504
14.4KV NORM OUT OF
ROUNDHILL SUB



VICINITY MAP (NTS)

E - KAHLE DR - FP - RELO - E - DOUGLAS COUNTY

EXHIBIT "A" APPLICANT INSTALLED CONDUIT
ELECTRIC DESIGN

SCALE: N.T.S.

SHEET#: E.1 OF 6

AUD#:
CAS#:
ELE#: 3010395842

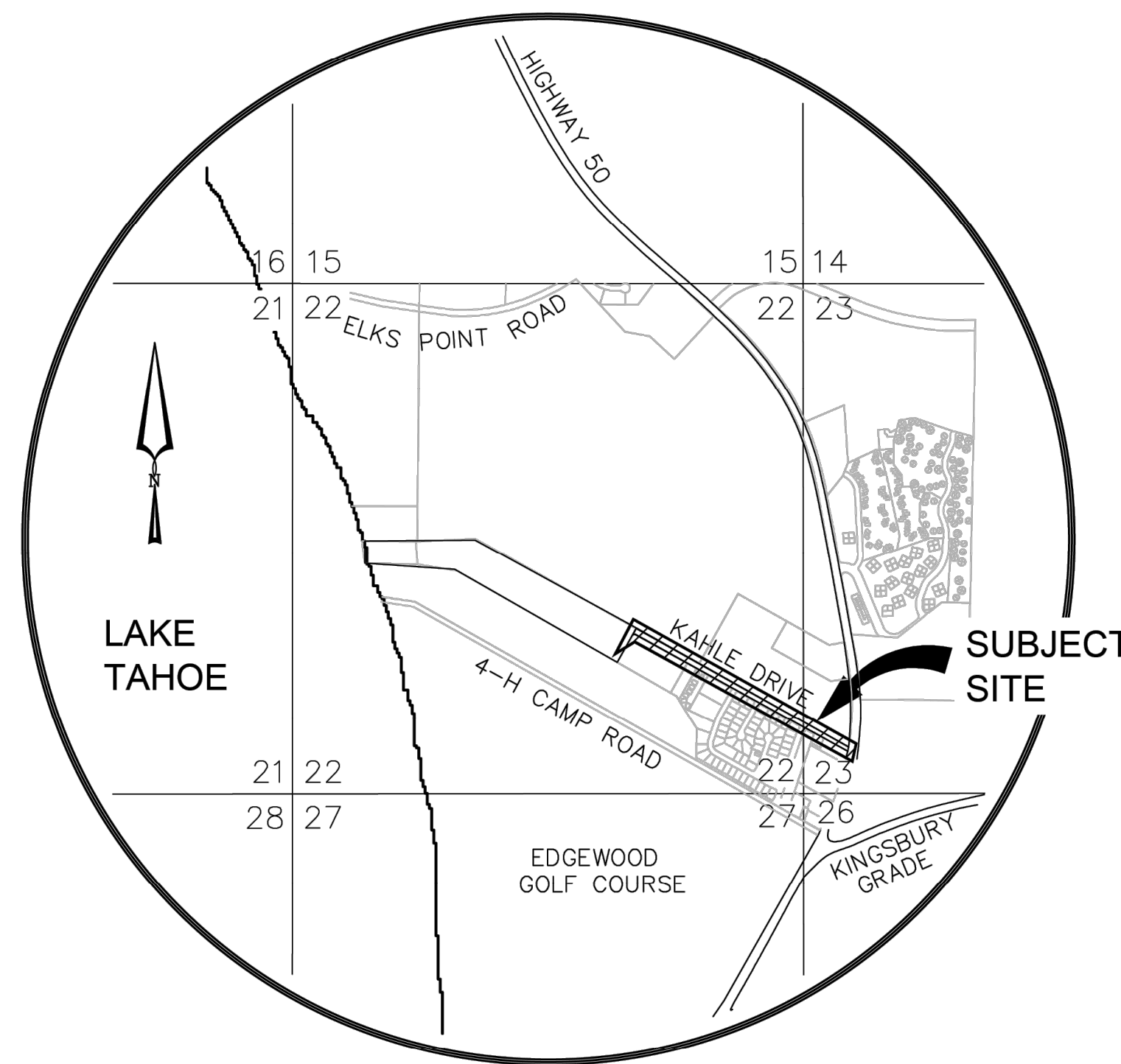
CREW NOTE:
CHARGE SERVICE TIME TO
SERVICE BLANKET

METER PANEL ADDRESS TAG
MUST COMPLY WITH NVE STD.
GM0001M SECTION 5.3

MANUFACTURED FREESTANDING
OUTDOOR SWITCHBOARD TO BE
PLACED ON HOUSE KEEPING PAD
PER VOL 17 STD. SB0001M

A PRE CONSTRUCTION MEETING IS REQUIRED ON ALL PROJECTS
PLEASE CALL CARSON OPERATIONS AT (775)834-2977 TO
SCHEDULE 48 HOURS PRIOR TO CONSTRUCTION.

15' OSHA 1910.269 WORKING CLEARANCE FOR UN-QUALIFIED
ELECTRICAL WORKERS MUST BE MET DURING CONSTRUCTION
OF THE PROJECT.



VICINITY MAP

SCALE: NTS

NV ENERGY APPROVED PLANS
SHALL BE ON SITE DURING
CONSTRUCTION AND INSPECTION

CUSTOMER TO CONTACT AT&T
REGARDING ALTERATION OR REMOVAL
OF AT&T'S FACILITIES.

WARNING:
ALL TRANSFORMERS MUST BE INSTALLED WITH A
MINIMUM OF 10 FEET OF CLEARANCE IN ANY
DIRECTION FROM ANY COMBUSTIBLE BUILDING
SURFACE AND A MINIMUM OF 3 FEET OF CLEARANCE
IN ANY DIRECTION FROM ANY NON-COMBUSTIBLE
BUILDING SURFACE. THIS DRAWING MAY NOT BE TO
SCALE, A SITE MEASUREMENT IS REQUIRED. REFER
TO NVE STANDARD "PE0010U" IN VOLUME 17 SECTION
6 FOR FULL TEXT.

NOTE:
DEVELOPER IS RESPONSIBLE FOR ADHERENCE
TO NVE GAS AND ELECTRIC STANDARDS.
CONSTRUCTION STANDARDS CAN BE FOUND ON-LINE
AT THE FOLLOWING WEB SITE:
www.nvenergy.com/business/building-and-new-construction-north

NV ENERGY TO FURNISH AND/OR INSTALL:

- APPROX. 305 CKT. FT. 25 KV 30 U/G PRIMARY C/O 3-1000 MCM CABLE IN 165' OF (E) AND 140' OF NEW 1-6"C (CONDUIT BY APPLICANT).
- APPROX. 2055 CKT. FT. 25 KV 30 U/G PRIMARY C/O 3-1000 MCM CABLE IN 3 OF 4-4"C (CONDUIT BY APPLICANT).
- APPROX. 3095 CKT. FT. 15 KV 30 U/G PRIMARY C/O 3-1/0 CABLE IN 200' OF (E) AND 2895' OF NEW 1-4"C (CONDUIT BY APPLICANT).
- APPROX. 680 CKT. FT. 15 KV 10 DELTA U/G PRIMARY C/O 2-1/0 CABLE IN 225' OF (E) AND 455' OF NEW 1-4"C (CONDUIT BY APPLICANT).
- APPROX. 315 CKT. FT. 10 U/G SECONDARY BUSS C/O 1-2/0 TX IN 45' OF (E) AND 270' OF NEW 1-3"C (CONDUIT BY APPLICANT).
- APPROX. 75 CKT. FT. U/G SERVICE CABLE TO 4 - 100 AMP PANELS C/O 1-#2 TX IN 1-3"C (CONDUIT BY APPLICANT). 3 (E) PEDESTALS AND 1 NEW STL PEDESTAL
- 2 - 10 PDM LOAD BREAK TRANSFORMERS 25 KVA, 14.4KV DELTA, 240/120V, STK.#81-3142.
- 1 - 50" DUCTILE IRON CLASS 1 POLE.
- 1 - 45" DUCTILE IRON CLASS 1 POLE.
- 1 - ANCHOR C/O 1-1/4"R, 20'L AND 2 - 1/2" E.H.S. DOWN GUYS.
- 1 - ANCHOR C/O 1"R, 20'L AND 2 - 3/8" E.H.S. DOWN GUYS.
- 1 - ANCHOR C/O 1"R, 15'L AND 2 - 3/8" E.H.S. DOWN GUYS.
- PRIMARY RISER MATERIAL TO CONSIST OF STAND OFF BRACKETS AND LAG SCREWS ONLY. (ALL RISER CONDUIT SUPPLIED BY APPLICANT.)

NV ENERGY TO RELOCATE AND/OR REMOVE:

- APPROX. 751 CKT. FT. 30 O/H PRIMARY C/O 3-397.5 AA.
- APPROX. 1654 CKT. FT. 30 O/H PRIMARY C/O 3-4/0 ACSR.
- APPROX. 93 CKT. FT. 30 O/H PRIMARY C/O 3-#2 ACSR.
- APPROX. 45 CKT. FT. 10 DELTA O/H PRIMARY C/O 2-#2ACSR.
- APPROX. 208 CKT. FT. 2/0TX O/H SECONDARY.
- APPROX. 788 CKT. FT. #2TX O/H SECONDARY.
- APPROX. 582 CKT. FT. #4DX O/H STREETLIGHT WIRE.
- APPROX. 190 CKT. FT. 25 KV 30 U/G PRIMARY C/O 3-1000 MCM CABLE IN 1-6"C.
- APPROX. 280 CKT. FT. 15 KV 30 U/G PRIMARY C/O 3-1/0 CABLE IN 1-4"C.
- APPROX. 150 CKT. FT. 15 KV 30 U/G PRIMARY C/O 3-1/0 CABLE IN 1 OF 2-4"C.
- APPROX. 240 CKT. FT. 15 KV 30 U/G PRIMARY C/O 3-#2 AL CABLE IN 1-4"C.
- APPROX. 55 CKT. FT. 10 U/G SECONDARY BUSS C/O 1-#2TX IN 1-3"C.
- APPROX. 25 CKT. FT. U/G SERVICE CABLE TO 3 - 100 AMP PANELS C/O 1-#2 TX IN 1-3"C. 2 CHARTER PEDESTALS AND 1 PEDESTAL FOR 194 KAHLE DR
- 1 - 10 25 KVA O/H TRANSFORMER, 14.4KV DELTA, 120/240V.
- 1 - 10 15 KVA O/H TRANSFORMER, 14.4KV DELTA, 120/240V.
- 1 - 10 5 KVA O/H TRANSFORMER, 14.4KV DELTA, 120/240V.
- 1 - 55" BUTT TREATED WOOD POLE.
- 3 - 50" BUTT TREATED WOOD POLES.
- 8 - 45" BUTT TREATED WOOD POLES.
- 1 - ANCHOR C/O 1-1/4"R, 22'L AND 2 - 3/8" E.H.S. DOWN GUYS.
- 1 - ANCHOR C/O 1-1/4"R, 17'L AND 2 - 3/8" E.H.S. DOWN GUYS.
- 1 - ANCHOR C/O 1-1/4"R, 15'L AND 2 - 3/8" E.H.S. DOWN GUYS.
- 1 - ANCHOR C/O 1"R, 15'L AND 2 - 3/8" E.H.S. DOWN GUYS.
- 1 - ANCHOR C/O 1"R, 13'L AND 2 - 3/8" E.H.S. DOWN GUYS.
- 1 - ANCHOR C/O 1"R, 6'L AND 1 - 3/8" E.H.S. DOWN GUY.
- APPROX. 93 FT. SPAN GUY, 3/8" E.H.S.
- 4 - O/H NIGHTGUARDS.
- 6 - O/H STREETLIGHTS.
- 2 - 600A 6"C PRIMARY RISERS.
- 3 - 200A 4"C PRIMARY RISERS.
- 2 - 3"C SECONDARY RISERS.
- 1 - 3"C SERVICE RISER.

APPLICANT TO CONTACT AT&T REGARDING ALTERATION OR REMOVAL OF AT&T'S FACILITIES.

APPLICANT TO FURNISH AND/OR INSTALL:

- 2 - 10 TRANSFORMER PADS 44"x48"x6" PER NVE. STD. PE0001U.
- 2 - 17"x30" H-10 CONCRETE SECONDARY BOXES AND LIDS (NON TRAFFIC AND INCIDENTAL RATED BOX) (SEE VB0052U)
- 5 - 612 CABLE VAULTS 72"x144"x84" I.D. WITH LID "A" PER NVE. STD. #VB0085U.
- (LID "A" H-10 RATED, LID "B" H-20 RATED EQUIPMENT, LID "B-1" H-20 RATED 3" MANHOLE, LID "C" OR "C-1" NON RATED, OR LID "D" MAINTENANCE ONLY)
- PROPOSED APPROX. 11570 FT. 4", 140 FT. 6" PVC PRIMARY CONDUIT.
- PROPOSED APPROX. 270 FT. 3" PVC SECONDARY CONDUIT.
- PROPOSED APPROX. 75 FT. 3" PVC SERVICE CONDUIT.
- FUTURE APPROX. 125 FT. 4" PVC CONDUIT.
- (ABOVE FOOTAGE DOES NOT INCLUDE SWEEPS OR RISERS FOR SECONDARY BOXES, TRANSFORMERS, JUNCTION ENCLOSURES, ETC.)
- APPLICANT IS RESPONSIBLE FOR MANDRELLING CONDUIT AND INSTALLING A PULL LINE THAT MEETS OR EXCEEDS THE FOLLOWING REQUIREMENTS:
 - THE PULL LINE WILL BE OF A FLAT DESIGN
 - SHALL HAVE A MINIMUM BREAKING STRENGTH OF 400 LBS.
 - WILL HAVE SEQUENTIAL FOOTAGE MARKINGS
 - EXAMPLES OF PULL LINES THAT MEET THESE REQUIREMENTS (NVE. STK.#95-7305)
 - NEPTCO "MULE TAPE" (WP400P)
 - CONDUX INTERNATIONAL (08086203)
 - SEE NVE VOLUME 17, SECTION 4-CD0001U.
- 15" DIAMETER, FLAT CONDUIT MARKERS, RED IN COLOR AT DESIGNATED LOCATIONS SHOWN ON DRAWINGS. MARKER WILL BE A 3M MODEL 1251 (NVE STK.#25-3125), BURIED A MAXIMUM OF 4 1/2" BELOW FINISH GRADE.
- ALL SECONDARY CONDUIT TO BE 3" MINIMUM.
- ALL SERVICE CONDUIT TO BE 3" MINIMUM.
- ALL CONDUIT TO BE A MINIMUM DB120 PVC GRAY BELOW GROUND.
- NOTE: ALL CONDUIT INSTALLATIONS BENEATH FOUNDATION AND SLABS TO BE RIGID STEEL OR CONCRETE ENCASED PER NVE STDS. CD0003U.
- ALL TRENCHING AND BACKFILL PER APPLICABLE NVE. STDS. TE0001, TE0003, TE0004 AND TE0020.
- ALL STAKING REQUIREMENTS PER NVE. STD. GI0001U/G/W AND GI0002U.
- ALL STREET CUT PERMITS AND PAVEMENT CUTTING AND REPLACEMENT AS REQUIRED.
- INSTALLATION OF U/G ELECTRIC FACILITIES IN RESIDENTIAL SUBDIVISIONS PER NVE. STD. RU0005U.
- RETAINING WALL REQUIREMENTS PER NVE. STD. TE0040U.
- PRIMARY RISER RISER MATERIAL C/O 4" MINIMUM DB-120 SWEEP, 10' OF 4" SCHEDULE 80 CONDUIT AND 30' OF SCHEDULE 40 CONDUIT. STAND-OFF BRACKETS AND LAG SCREWS BY NVE. (NVE TO INSTALL 30' OF SCHEDULE 40 CONDUIT ONLY.) TRAFFIC AREAS SHALL BE GALVANIZED RIGID STEEL FOR FIRST 10' OF RISER. SWEEP AND RISER MATERIAL MUST BE OF LIKE KIND. (STEEL OR PVC)
- 8' x 5/8" GROUND RODS AT SWITCH, TRANSFORMER AND JUNCTION ENCLOSURE LOCATIONS.
- BEFORE INSTALLATION OF THE UTILITY FACILITIES AND IF NO PUBLIC UTILITY EASEMENTS EXIST, THE OWNER OF RECORD SHALL SIGN APPROPRIATE EASEMENT DOCUMENTS.
- ALL SERVICE CONDUITS TO BE STUBBED 10" MINIMUM FROM TRANSFORMER PADS AND SECONDARY BOXES AT THE SAME TIME AS MAIN LINE INSTALLED PER NVE STDS VOLUME 17. (TE0020U)

APPLICANT TO REMOVE:

- 1 - 17"x30" H-10 CONCRETE SECONDARY N36 BOX AND LID.
- 1 - 30" X 48" CONCRETE PRIMARY N48 BOX AND LID.

Tahoe Regional Planning Agency Notes

- All areas disturbed by construction shall be revegetated in accordance with the TRPA Handbook of Best Management Practices and Living with Fire, Lake Tahoe Basin, Second Edition.
- All excess excavated materials shall be hauled away from the project site.
- The permittee shall submit a project construction schedule to TRPA prior to permit acknowledgement. Said schedule shall include completion dates for each item of construction, as well as temporary BMP installation.
- The permittee shall e-mail one final set of plans to TRPA for electronic stamping.
- The maximum volume of dirt removed per pole is 0.8 Cubic Yards (assuming 1.5' diameter pole buried 7' deep).

THIS PROJECT IS LOCATED WITHIN A TIER 3 FIRE AREA

OUTAGE REQUIRED

TRAFFIC CONTROL REQUIRED



REMOVAL WORK

15' OSHA 1910.269 WORKING CLEARANCE FOR UN-QUALIFIED ELECTRICAL WORKERS MUST BE MET DURING CONSTRUCTION OF THE PROJECT.

A PRE CONSTRUCTION MEETING IS REQUIRED ON ALL PROJECTS PLEASE CALL CARSON OPERATIONS AT (775)834-2977 TO SCHEDULE 48 HOURS PRIOR TO CONSTRUCTION.

MANUFACTURED FREESTANDING OUTDOOR SWITCHBOARD TO BE PLACED ON HOUSE KEEPING PAD PER VOL 17 STD. SB0001M

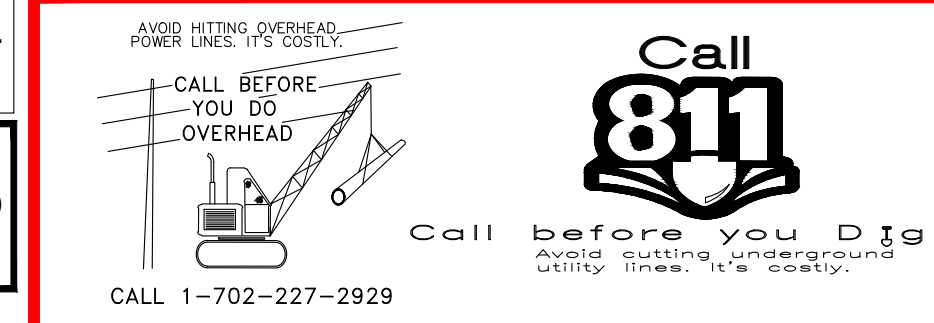
METER PANEL ADDRESS TAG MUST COMPLY WITH NVE STD. GM0001M SECTION 5.3

CREW NOTE: CHARGE SERVICE TIME TO SERVICE BLANKET

DRAWING	DESIGNED BY	DATE
BASE	YANG CHEN	06/13/2024
ELECTRIC	YANG CHEN	07/10/2024
GAS		

REVIEWED BY:			
UTILITY Designer	Engineer	Design Administrator	Design Facilitator
		MTR	
		07/24/2024	

NO.	REVISION	DESCRIPTIONS	DATE	DI
1				
2				
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NV ENERGY CONTACT INFORMATION:

COORDINATOR: CORY HEMBREE
 OFFICE: # (775) 834-2910
 CELL: # (775) 508-8610
 FAX: #
 EMAIL: CORY.HEMBREE@NVEENERGY.COM
 DESIGNER: YANG CHEN
 INSPECTION HOTLINE#: (775) 834-2977

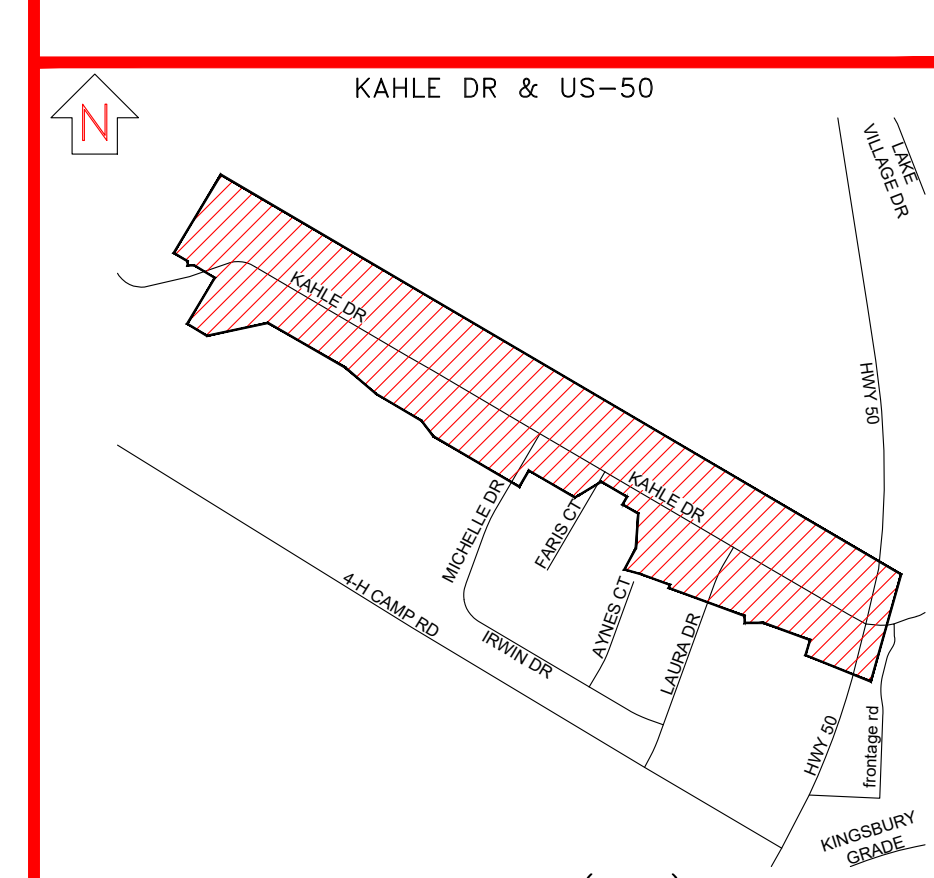
CUSTOMER CONTACT INFORMATION:

CUSTOMER: DOUGLAS COUNTY
 ATTENTION: PATRICK CATES
 PHONE: # (775) 782-9821
 FAX: # (775) 782-6255
 EMAIL: PCATES@DOUGLASNV.US
 CUST REP: # MEGHAN KELLY - NTCD
 PHONE: # (775) 586-1610
 EMAIL: MKELLY@NTCD.ORG

TOWNSHIP-RANGE-SECTION	APN#
1318-22 1318-23	VARIOUS

SOURCE INFORMATION:

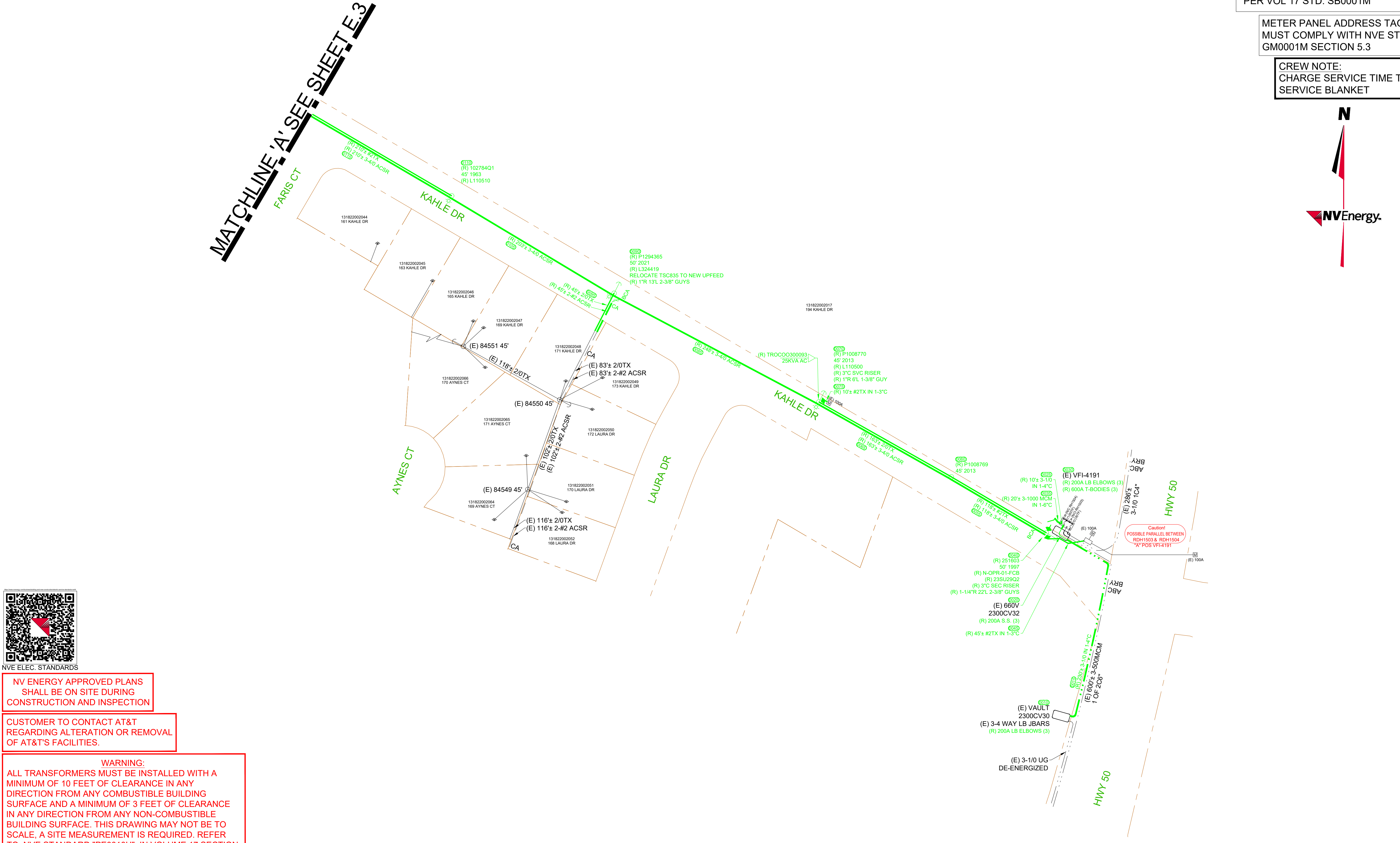
1504
 14.4KV NORM OUT OF
 ROUNDHILL SUB



E - KAHLE DR - FP - RELO - E - DOUGLAS COUNTY

EXHIBIT "A" APPLICANT INSTALLED CONDUIT ELECTRIC DESIGN	AUD#:	GAS#:	ELE#: 3010395842
SCALE: 1" = 50'			
SHEET#: E.2 OF 6			

MATCHLINE 'A' SEE SHEET E.3



NV ENERGY APPROVED PLANS SHALL BE ON SITE DURING CONSTRUCTION AND INSPECTION

CUSTOMER TO CONTACT AT&T REGARDING ALTERATION OR REMOVAL OF AT&T'S FACILITIES.

WARNING: ALL TRANSFORMERS MUST BE INSTALLED WITH A MINIMUM OF 10 FEET OF CLEARANCE IN ANY DIRECTION FROM ANY COMBUSTIBLE BUILDING SURFACE AND A MINIMUM OF 3 FEET OF CLEARANCE IN ANY DIRECTION FROM ANY NON-COMBUSTIBLE BUILDING SURFACE. THIS DRAWING MAY NOT BE TO SCALE. A SITE MEASUREMENT IS REQUIRED. REFER TO NVE STANDARD "PE0010U" IN VOLUME 17 SECTION 6 FOR FULL TEXT.

NOTE: DEVELOPER IS RESPONSIBLE FOR ADHERENCE TO NVE GAS AND ELECTRIC STANDARDS. CONSTRUCTION STANDARDS CAN BE FOUND ON-LINE AT THE FOLLOWING WEB SITE: www.nvenergy.com/business/building-and-new-construction-north

THIS PROJECT IS LOCATED WITHIN A TIER 3 FIRE AREA

OUTAGE REQUIRED

TRAFFIC CONTROL REQUIRED

REMOVAL WORK

15' OSHA 1910.269 WORKING CLEARANCE FOR UN-QUALIFIED ELECTRICAL WORKERS MUST BE MET DURING CONSTRUCTION OF THE PROJECT.

A PRE CONSTRUCTION MEETING IS REQUIRED ON ALL PROJECTS PLEASE CALL CARSON OPERATIONS AT (775)834-2977 TO SCHEDULE 48 HOURS PRIOR TO CONSTRUCTION.

MANUFACTURED FREESTANDING OUTDOOR SWITCHBOARD TO BE PLACED ON HOUSE KEEPING PAD PER VOL 17 STD. SB0001M

METER PANEL ADDRESS TAG MUST COMPLY WITH NVE STD. GM0001M SECTION 5.3

CREW NOTE: CHARGE SERVICE TIME TO SERVICE BLANKET

DRAWING	DESIGNED BY	DATE
BASE	YANG CHEN	06/13/2024
ELECTRIC	YANG CHEN	07/10/2024
GAS		

REVIEWED BY:			
UTILITY Designer	Engineer	Design Administrator	Design Facilitator
		MTR	
		07/24/2024	

NO.	REVISION	DESCRIPTIONS	DATE	DI
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Call before you dig
Call 811
Call before you dig
Avoid cutting underground utility lines. It's costly.
CALL 1-702-227-2929

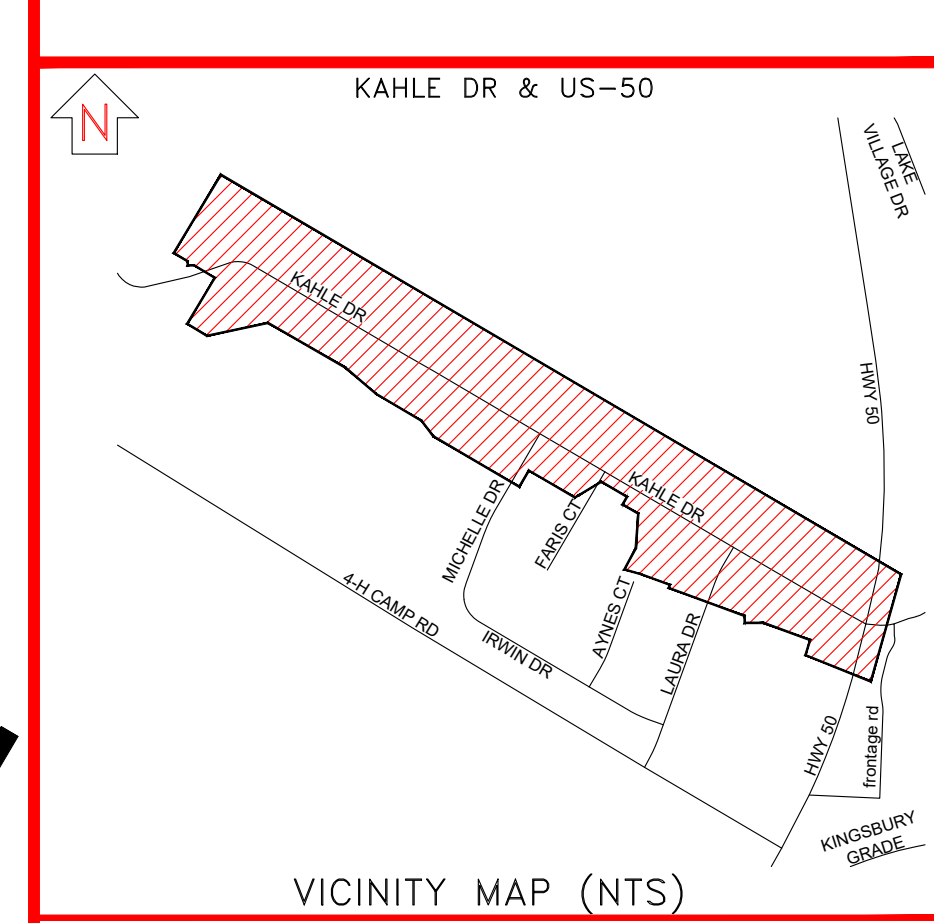
NV Energy
P.O. Box 10100
R77CSE
Reno, NV, 89520-0024

NV ENERGY CONTACT INFORMATION:
 COORDINATOR: CORY HEMBRÉE
 OFFICE: # (775) 834-2910
 CELL: # (775) 508-8610
 FAX: #
 EMAIL: CORY.HEMBREE@NVENERGY.COM
 DESIGNER: YANG CHEN
 INSPECTION HOTLINE#: (775) 834-2977

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 ATTENTION: PATRICK CATES
 PHONE: # (775) 782-9821
 FAX: # (775) 782-6255
 EMAIL: PCATES@DOUGLASNV.US
 CUST REP: # MEGHAN KELLY - NTCD
 PHONE: # (775) 586-1610
 EMAIL: MKELLY@NTCD.ORG

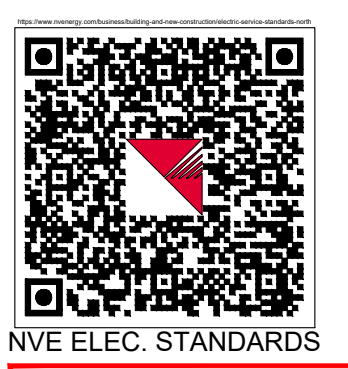
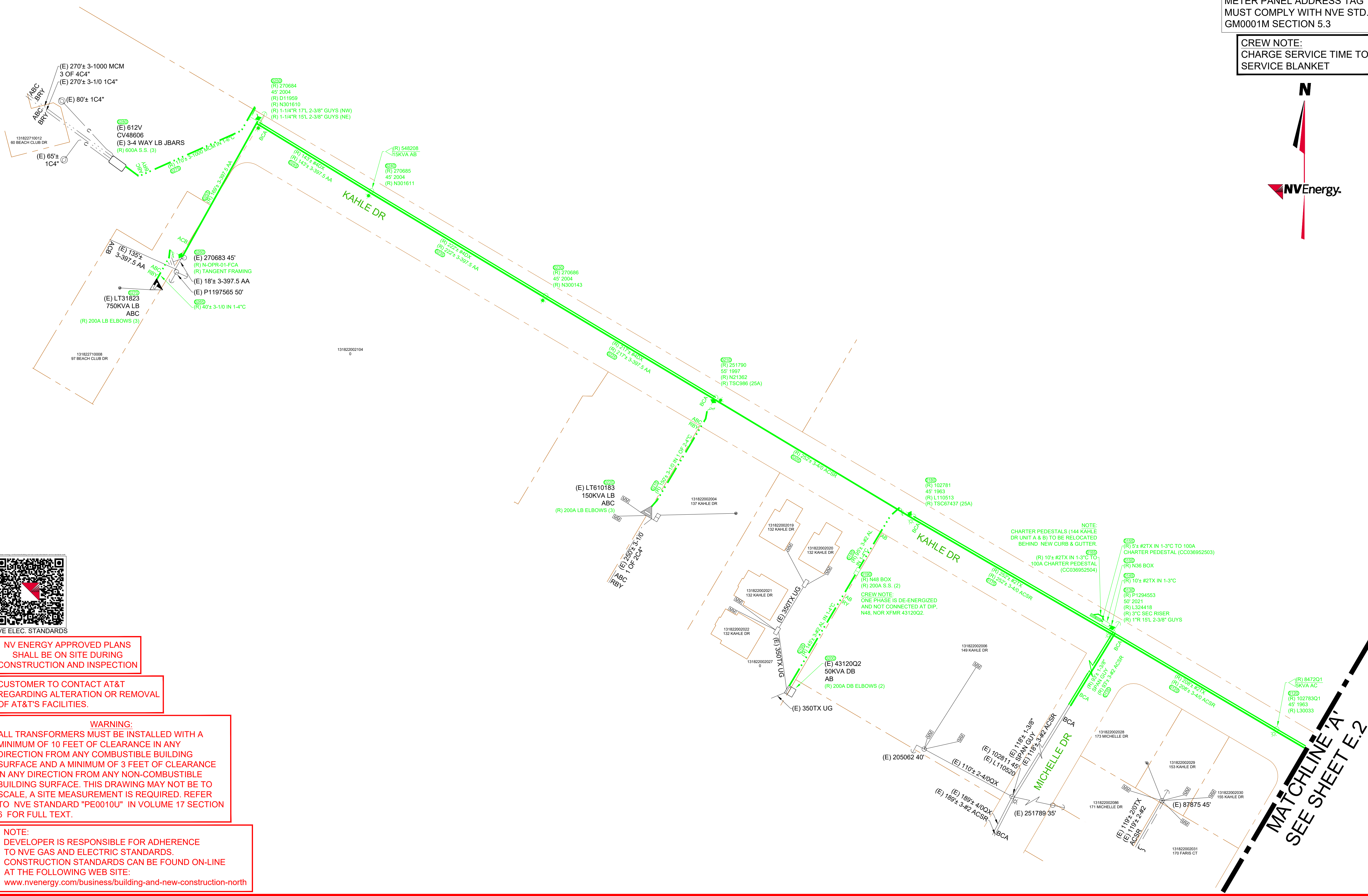
TOWNSHIP-RANGE-SECTION	APN#
1318-22 1318-23	VARIOUS

SOURCE INFORMATION:
 1504
 14.4KV NORM OUT OF
 ROUNDHILL SUB



E - KAHLE DR - FP - RELO - E - DOUGLAS COUNTY

EXHIBIT "A" APPLICANT INSTALLED CONDUIT	AUID#:	GAS#:	ELE#: 3010395842
ELECTRIC DESIGN			
SCALE: 1" = 50'			
SHEET#: E.3 OF 6			



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www.nvenergy.com/business/building-and-new-construction-north

MATCHLINE 'A'
SEE SHEET E.2

THIS PROJECT IS LOCATED WITHIN A TIER 3 FIRE AREA

OUTAGE REQUIRED

TRAFFIC CONTROL REQUIRED

INSTALL WORK



NVE	2'	4'	6'	8'	10'	12'	14'	16'	18'	20'
NEUTRAL	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'
PHONE/CABLE	18'	21'	21'	23'	26'	28'	30'	32'		
POLE SIZE	30'	35'	40'	45'	50'	55'	60'	65'		

POLE TREE SCHEDULE

15' OSHA 1910.269 WORKING CLEARANCE FOR UN-QUALIFIED ELECTRICAL WORKERS MUST BE MET DURING CONSTRUCTION OF THE PROJECT.

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MANUFACTURED FREESTANDING OUTDOOR SWITCHBOARD TO BE PLACED ON HOUSE KEEPING PAD PER VOL 17 STD. SB0001M

METER PANEL ADDRESS TAG MUST COMPLY WITH NVE STD. GM0001M SECTION 5.3

CREW NOTE: CHARGE SERVICE TIME TO SERVICE BLANKET

DRAWING	DESIGNED BY	DATE
BASE	YANG CHEN	06/13/2024
ELECTRIC	YANG CHEN	07/10/2024
GAS		

REVIEWED BY:			
Utility Designer	Engineer	Design Administrator	Design Facilitator
		MTR	
		07/24/2024	

NO.	REVISION	DESCRIPTIONS	DATE	DI
1				
2				
3				
4				
5				
6				
7				

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Call before you dig
Avoid cutting underground utility lines. It's the easy way.

NVEnergy
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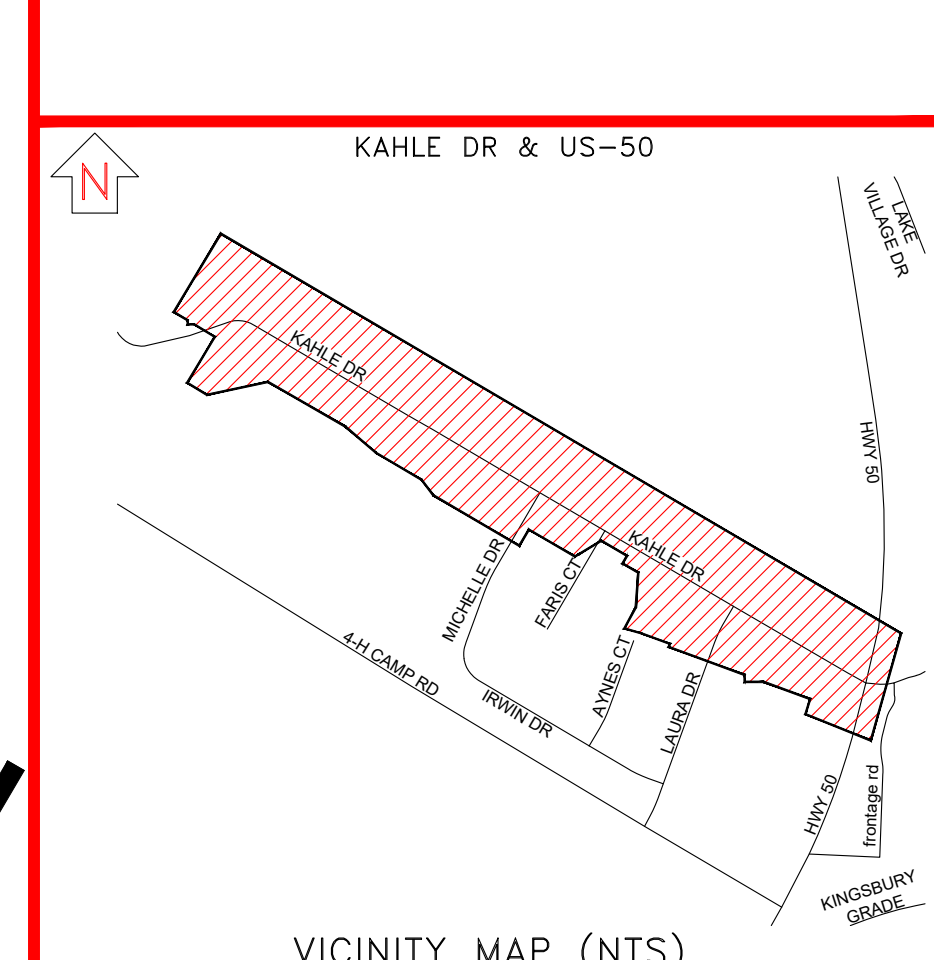
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TOWNSHIP-RANGE-SECTION
1318-22
1318-23

APN#
VARIOUS

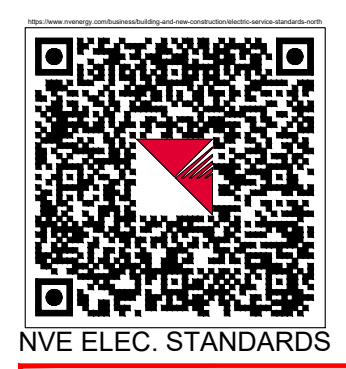
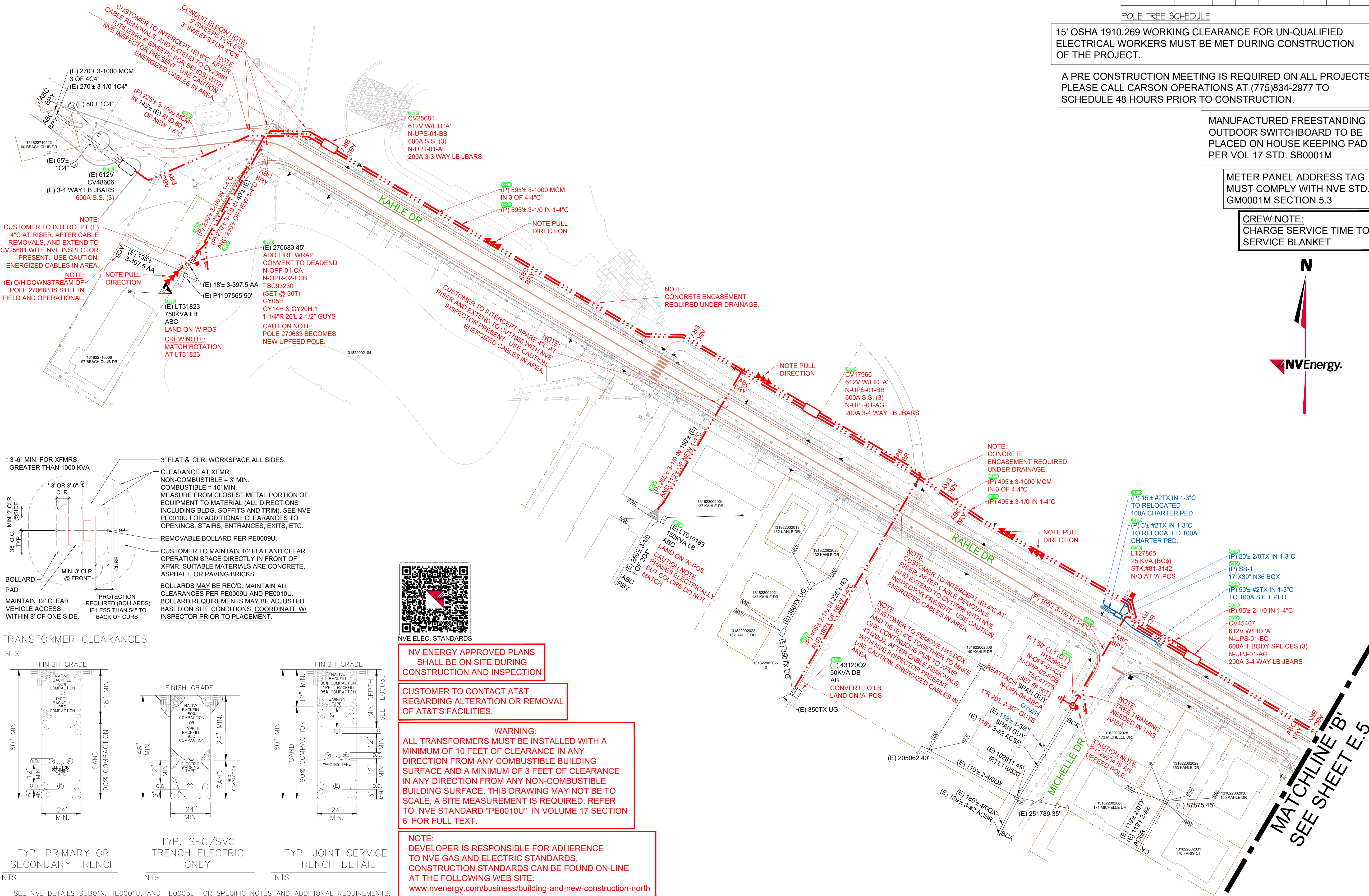
SOURCE INFORMATION:
1504
14.4KV NORM OUT OF
ROUNDHILL SUB



VICINITY MAP (NTS)

E - KAHLE DR - FP - RELO - E - DOUGLAS COUNTY

EXHIBIT "A" APPLICANT INSTALLED CONDUIT	AUD#:	GAS#:	ELE#: 3010395842
ELECTRIC DESIGN			
SCALE: 1" = 50'			
SHEET#: E.4 OF 6			



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THIS PROJECT IS LOCATED WITHIN A TIER 3 FIRE AREA

OUTAGE REQUIRED

TRAFFIC CONTROL REQUIRED

INSTALL WORK



NVE	2'	4'	9'	11'	13'	15'	18'	21'
NEUTRAL	4'	4'	4'	4'	4'	4'	4'	4'
PHONE/CABLE	18'	21'	21'	23'	26'	28'	30'	32'
POLE SIZE	30'	35'	40'	45'	50'	55'	60'	65'

POLE TREE SCHEDULE

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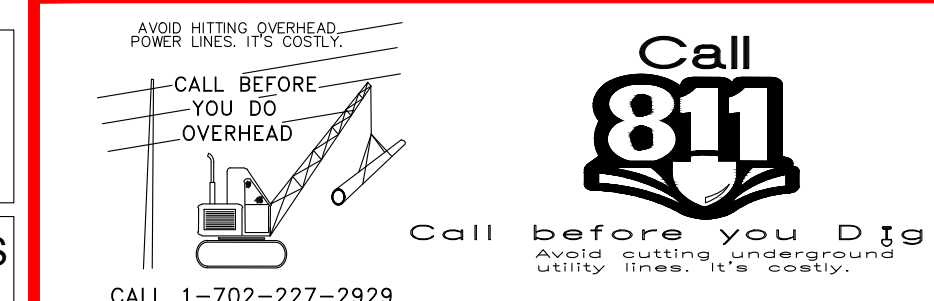
METER PANEL ADDRESS TAG MUST COMPLY WITH NVE STD. GM0001M SECTION 5.3

CREW NOTE: CHARGE SERVICE TIME TO SERVICE BLANKET

DRAWING	DESIGNED BY	DATE
BASE	YANG CHEN	06/13/2024
ELECTRIC	YANG CHEN	07/10/2024
GAS		

REVIEWED BY:			
UTILITY Designer	Engineer	Design Administrator	Design Facilitator
		MTR	
		07/24/2024	

NO.	REVISION	DESCRIPTIONS	DATE	DI
1				
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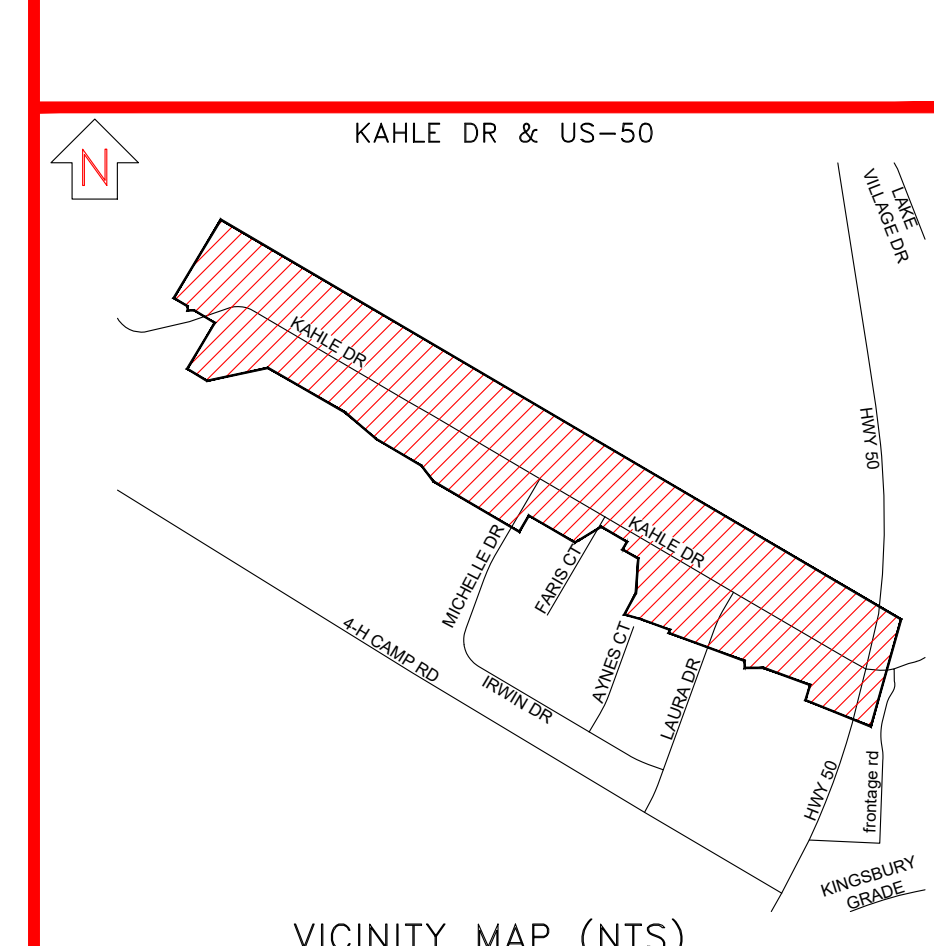
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TOWNSHIP-RANGE-SECTION	APN#
1318-22 1318-23	VARIOUS

SOURCE INFORMATION:

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E - KAHLE DR - FP - RELO - E - DOUGLAS COUNTY

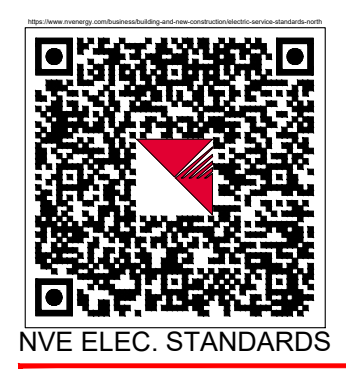
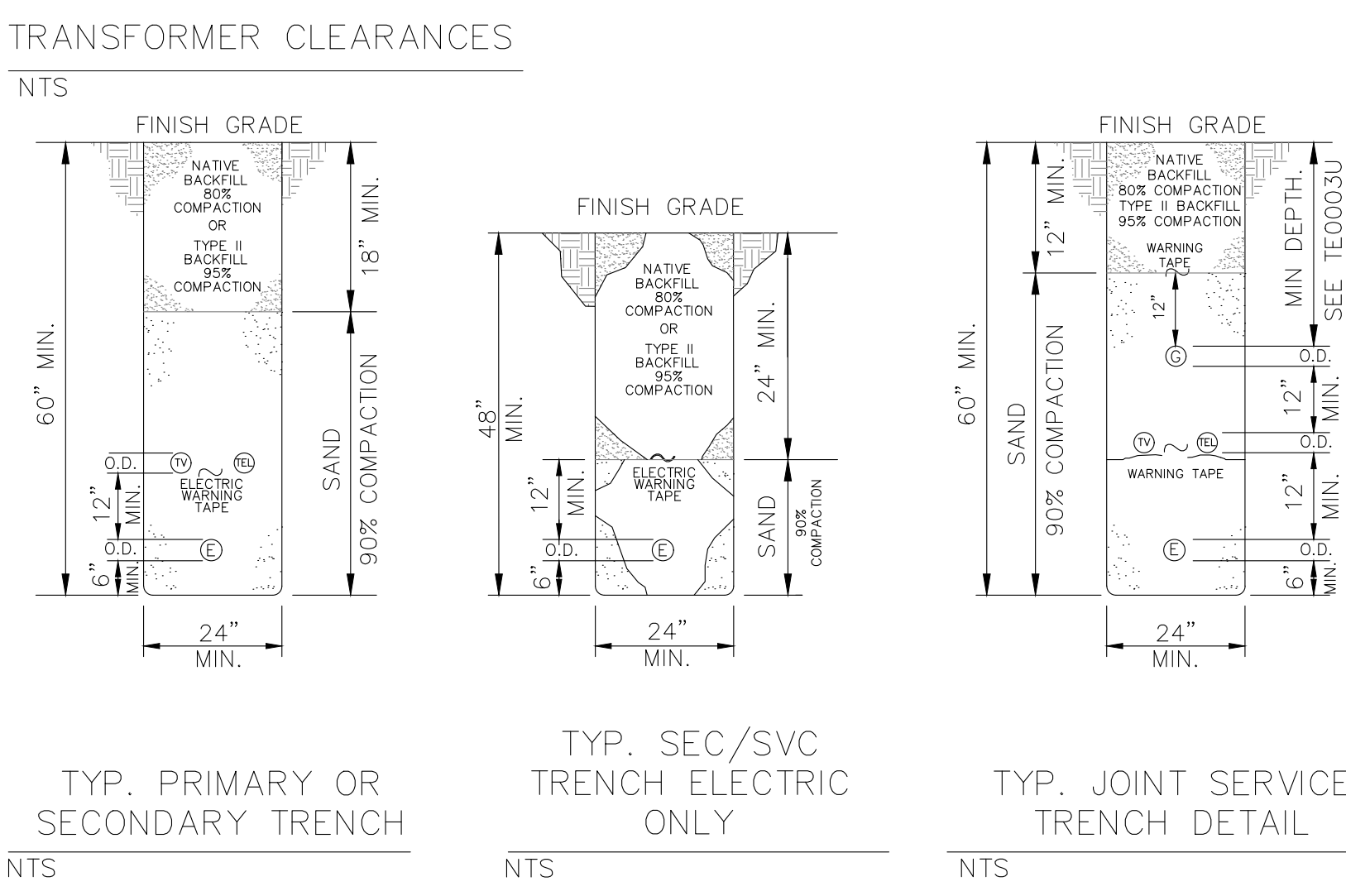
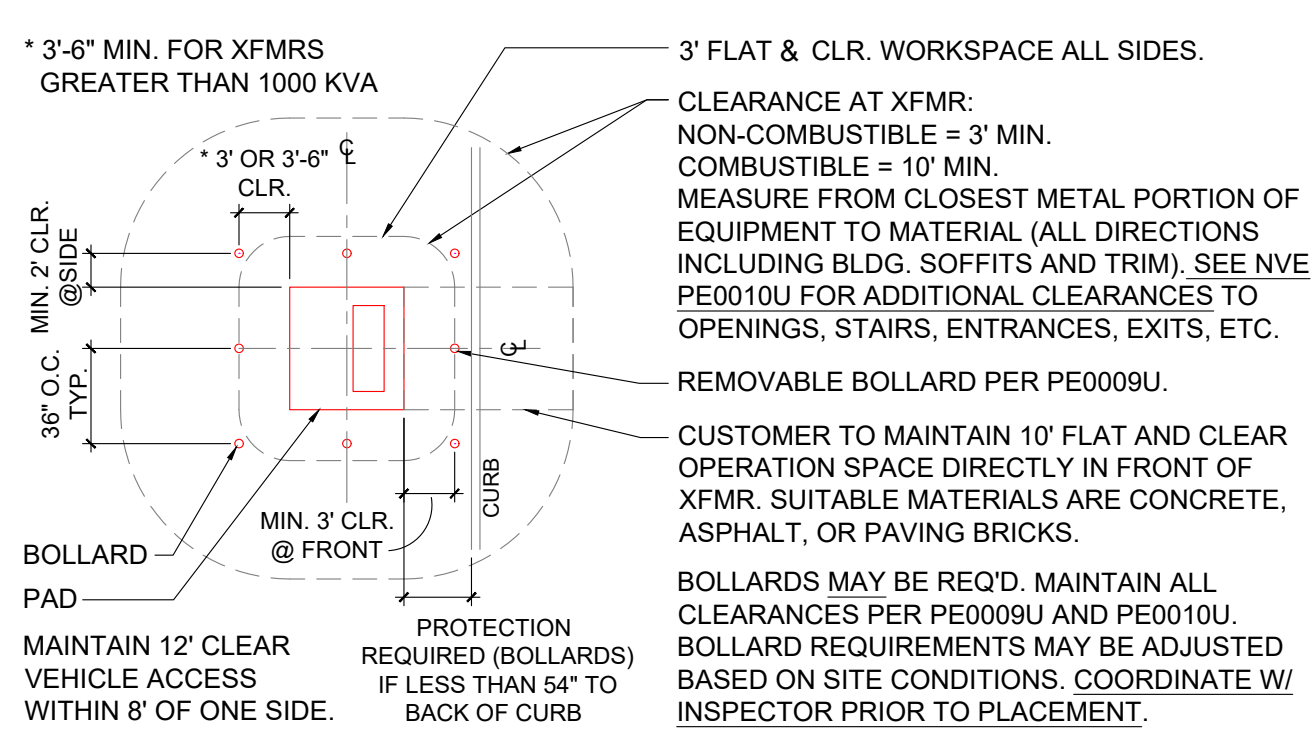
EXHIBIT "A" APPLICANT INSTALLED CONDUIT ELECTRIC DESIGN

SCALE: 1" = 50'

SHEET#: E.5 OF 6

AUD#: ELEC#: 3010395842

MATCHLINE 'B' SEE SHEET E.4



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SEE NVE DETAILS SUB01X, TE0001U, AND TE0003U FOR SPECIFIC NOTES AND ADDITIONAL REQUIREMENTS.

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OUTAGE REQUIRED

TRAFFIC CONTROL REQUIRED

ONELINE N.T.S.

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DRAWING	DESIGNED BY	DATE
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ELECTRIC	YANG CHEN	07/10/2024
GAS		

REVIEWED BY:			
Utility Designer	Engineer	Design Administrator	Design Facilitator
		MTR	
		07/24/2024	

NO.	REVISION	DESCRIPTIONS	DATE	DI
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NVEnergy.
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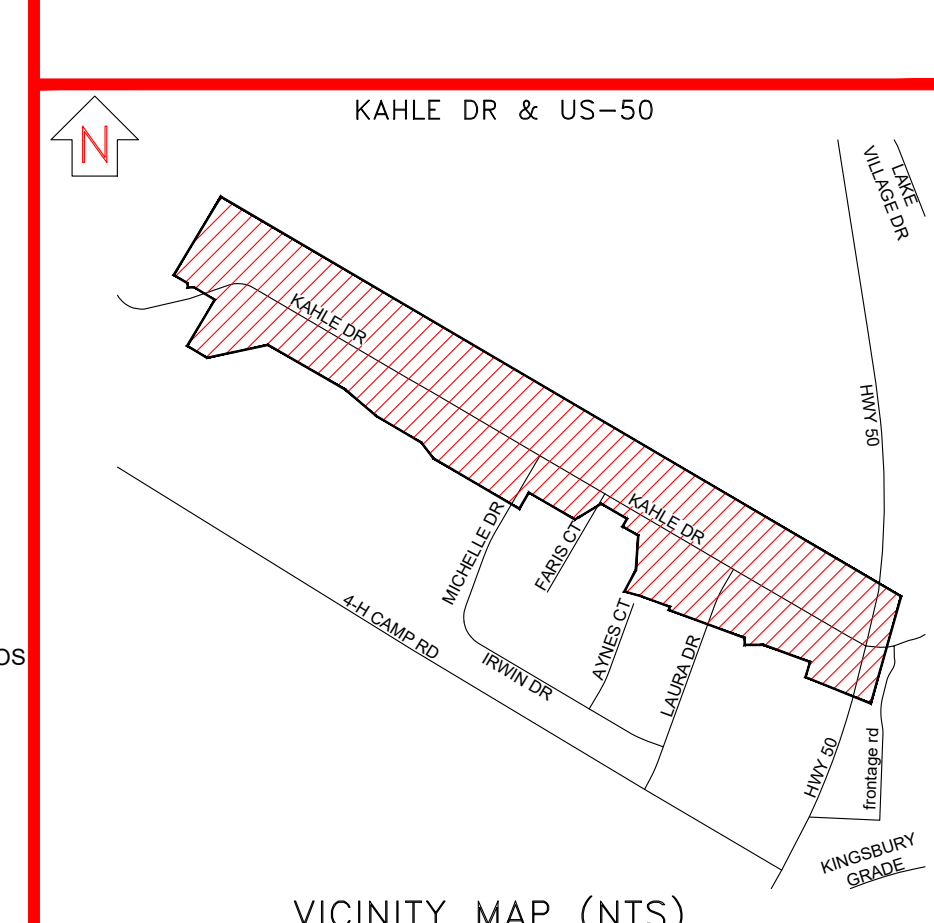
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TOWNSHIP-RANGE-SECTION
1318-22
1318-23

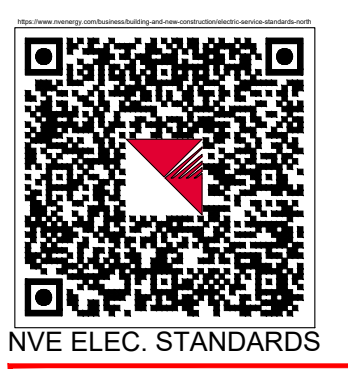
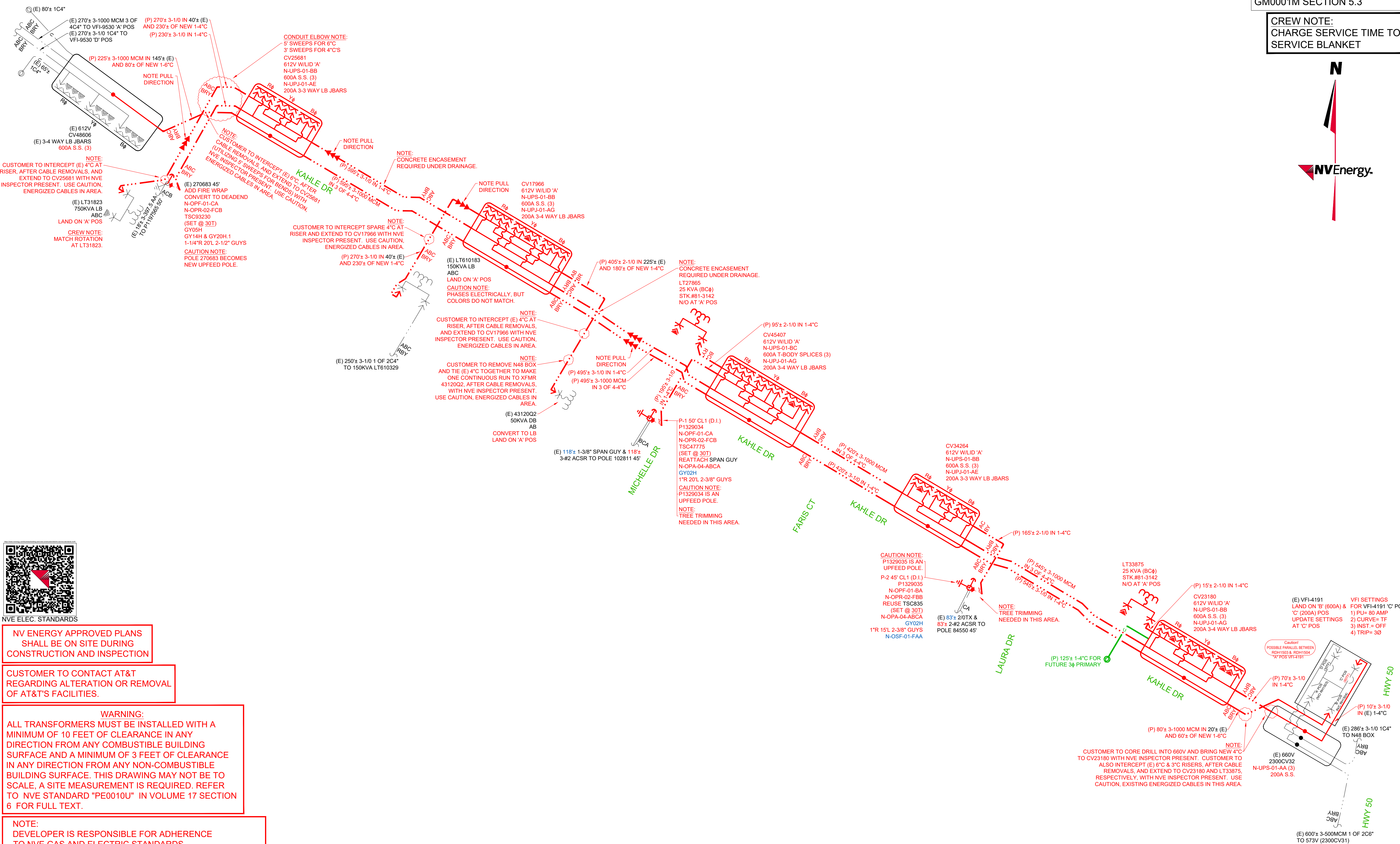
APN#
VARIOUS

SOURCE INFORMATION:
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 14.4KV NORM OUT OF
 ROUNDHILL SUB



E - KAHLE DR - FP - RELO - E - DOUGLAS COUNTY

EXHIBIT "A" APPLICANT INSTALLED CONDUIT	AUID#:	GAS#:	ELE#: 3010395842
ELECTRIC DESIGN			
SCALE: N.T.S.			
SHEET#: E.6 OF 6			



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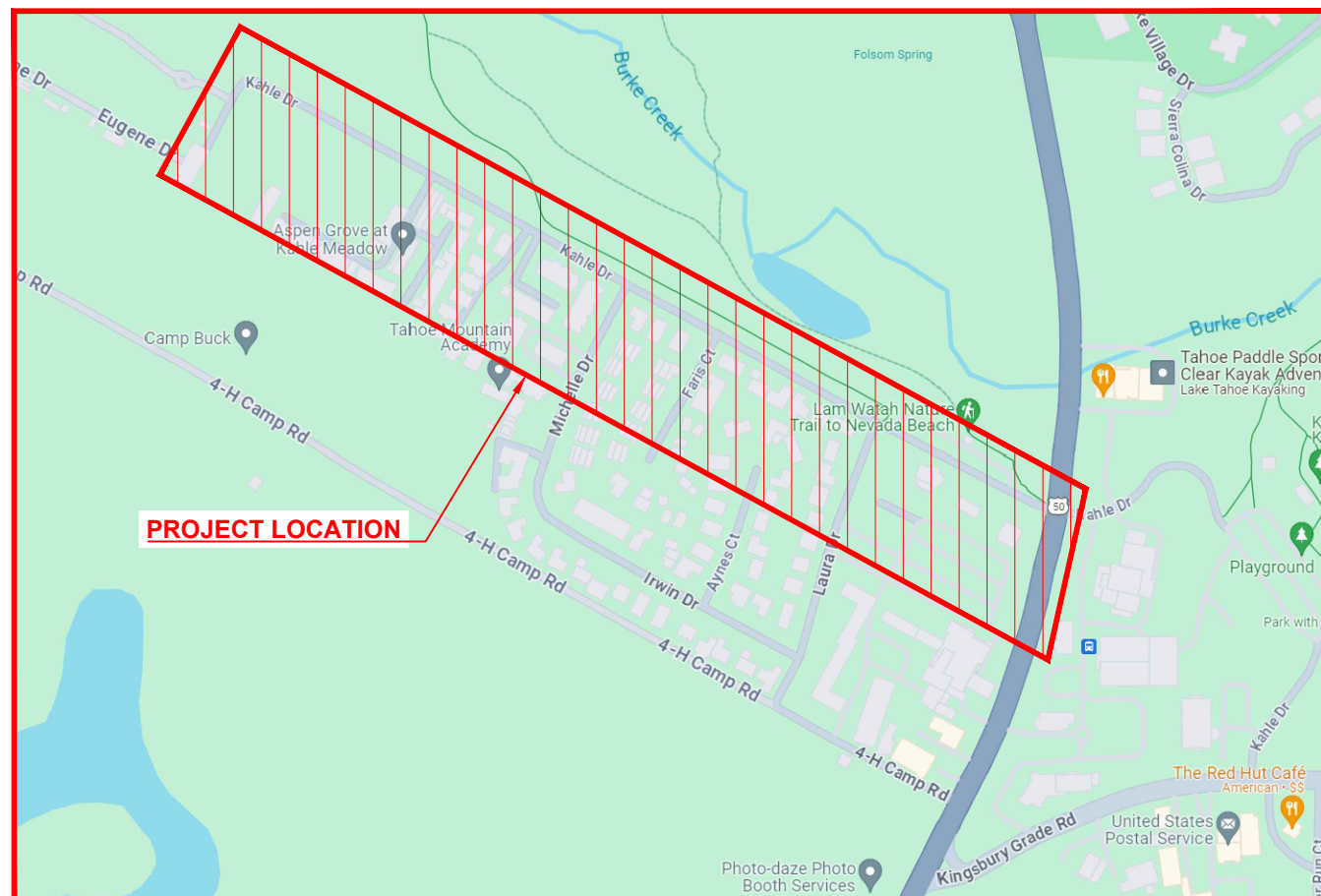
**FRONTIER COMMUNICATION
CONSTRUCTION SPECIFICATIONS**

- Contact Frontier Engineer CHRIS WILLING 775-781-1167 sixty (60) days prior to need of service in order to confirm compliance, order materials, and schedule work forces.
- FRONTIER COMMUNICATIONS, INCORPORATED RESERVES THE RIGHT TO REFUSE ANY CONDUIT, PULL BOXES, MANHOLES, OR UTILITY BOXES THAT DEVIATE FROM PLANS AND SPECIFICATIONS.
- CHANGES OR DEVIATIONS FROM THIS PLAN MUST BE APPROVED BY FRONTIER.
- CONTACT THE FRONTIER INSPECTOR 48 HOURS BEFORE TRENCHING AND UPON COMPLETION OF YOUR SUBSTRUCTURES TO SCHEDULE THE FINAL INSPECTION.
- FRONTIER INSPECTOR SHALL BE PRESENT ON SITE WHEN CONTRACTOR NEEDS TO ACCESS ANY EXISTING FRONTIER FACILITY.
- All conduit risers bends to have a minimum thirty-six (36) inch radius.
- All horizontal ninety degree bends (90°) shall have a radius of not less than 12.5 feet and all vertical ninety degree bends (90°) shall have a radius of not less than three feet. No more than two (2) ninety degree (90°) horizontal bends shall be placed in any single run unless otherwise specified. Contact Frontier engineer concerning any required deviations.
- All conduit must be proven using a mandrel no less than a 1/2" smaller than the conduit to be accepted. Mule tape shall be placed in all conduits proven. Wall to wall measurements must be taken with a mule tape.
- Accurate AS-BUILTS shall be provided to the Frontier inspector assigned to this project. AS-BUILTS shall include conduit section measurements, wall to wall footages, stations and offsets of AS-BUILT Frontier structures, and the cover to the top of the Frontier underground structure placed. Copy of the AS-BUILT conduit work order must be provided to the Frontier inspector assigned to your project.
- Contact TBD at the inspection office for coordination of inspection dates.
- Place weatherproof cap on end of all conduits terminated outside of a building.
- Place temporary weatherproof cap on end of all conduits exposed during construction.
- Rigid steel, approved plastic conduit (PVC Schedule #40, TYPE-C (4") or DB-120 (2") or Frontier provided or approved Roll Sheet sub duct, is specified for underground construction. Condulets, Flex, Transite, Plumbers fittings, Water and Gas Pipes must NOT be used. RIGID STEEL MUST BE USED WHEN CONDUIT CAN BE EXPOSED TO VEHICULAR TRAFFIC.
- Conduit terminated on a pole must be PVC Schedule 80. If conduit will be exposed to traffic, rigid steel pipe and sweep is required to 48" above finished grade otherwise turned up 12" above finished grade. Location of riser on pole will be as shown on conduit plan and location can be modified by approval of Frontier engineer/inspector only.
- Minimum separation from other utilities shall be a minimum of 12". Conduit placed in same trench with primary power conduit must be separated by no less than twelve inches (12") of well-packed sand or three inches (3") of concrete. Minimum cover shall be no less than thirty (30") inches measured from the final grade of the street flow line to the top of Frontier structure unless noted otherwise. Ducts placed in the driven portion of the roadway must have no less than 48 inches (48") of cover to top of pipe measured at flow line of roadway.
- FRONTIER RECOMMENDATIONS: Provide a minimum 1-4" conduit home run from each suite location to the main terminal backboard in lieu of running cables over drop ceiling access. Frontier will not install cables not contained in conduit.
- Provide source of ground at the telephone backboard location: (1) #6 insulated copper wire (solid preferred) to power system ground. - (1) #6 insulated copper wire (solid preferred) to permanent metallic structure such as UFER ground or building steel. - (1) #6 insulated copper wire (solid preferred) to metallic water pipe bonded to previously described permanent metallic structure. Leave adequate wire to extend six feet beyond base of backboard. NOTE: THE FOLLOWING MUST NOT BE USED FOR GROUND SOURCES: ROOF TRUSSES, FLOOR JOINTS, BRACES, SPRINKLER SYSTEM PIPES, METAL ELECTRICAL DISTRIBUTION CONDUIT, AND HORIZONTAL STEEL MEMBERS LESS THAN 3/8" THICK.
- Provide cable racking as described in attachment. Provide pulling irons as described in attachment.
- Three to six weeks will be needed from the date of final inspection for Frontier to start placing facilities. All paperwork and easements must also be completed, if applicable.
- Work crew to adjust manholes to final grade as shown on the approved grading plan.
- Actual footages of conduit are needed to order materials.

CONDUIT DESIGN

AE TO UG RELOCATION

KAHLE DR & US-50
STATELINE, NV 89449
51048-5345507



**VICINITY MAP
NTS**

PICK UP POINT:
- EXISTING 4" PVC
(W.O. 5800-3F001AJ)

PATH LENGTH:
- DEV. PATH = 3,081'

MATERIALS:
- 3,133' OF 4" PVC [DEV]
- (6) 2'x3' HANDHOLES [DEV]
- (1) 2'x3' COMBO PEDESTAL [DEV]

SHEET INDEX
1 - COVER
2 & 3 - CONDUIT DESIGN
4 - DETAILS

ABBREVIATIONS	PROPOSED	EXISTING
BUILDING	BLDG	blgd
CENTERLINE	C/L	c/l
CONCRETE	CONC	conc
SIDEWALK	CSW	csw
DRIVEWAY	DWY	dwy
EDGE OF PAVMENT	EOP	eop
FACE OF CURB	FOC	foc
HANDHOLE	HH	hh
MANHOLE	MH	mh
PEDESTAL	PED	ped
POLYVINYL CHLORIDE	PVC	pvc
SUB DUCT	SD	sd
PROPERTY LINE	P/L	p/l
RAILROAD	RR	rr
RAILROAD R/W	RR R/W	rr r/w
RIGHT OF WAY	R/W	r/w
SOUTHERN CAL EDISON	SCE	sce
WALL TO BUILDING	W-B	
WALL TO POLE	W-P	
NOT TO SCALE	NTS	

LEGEND

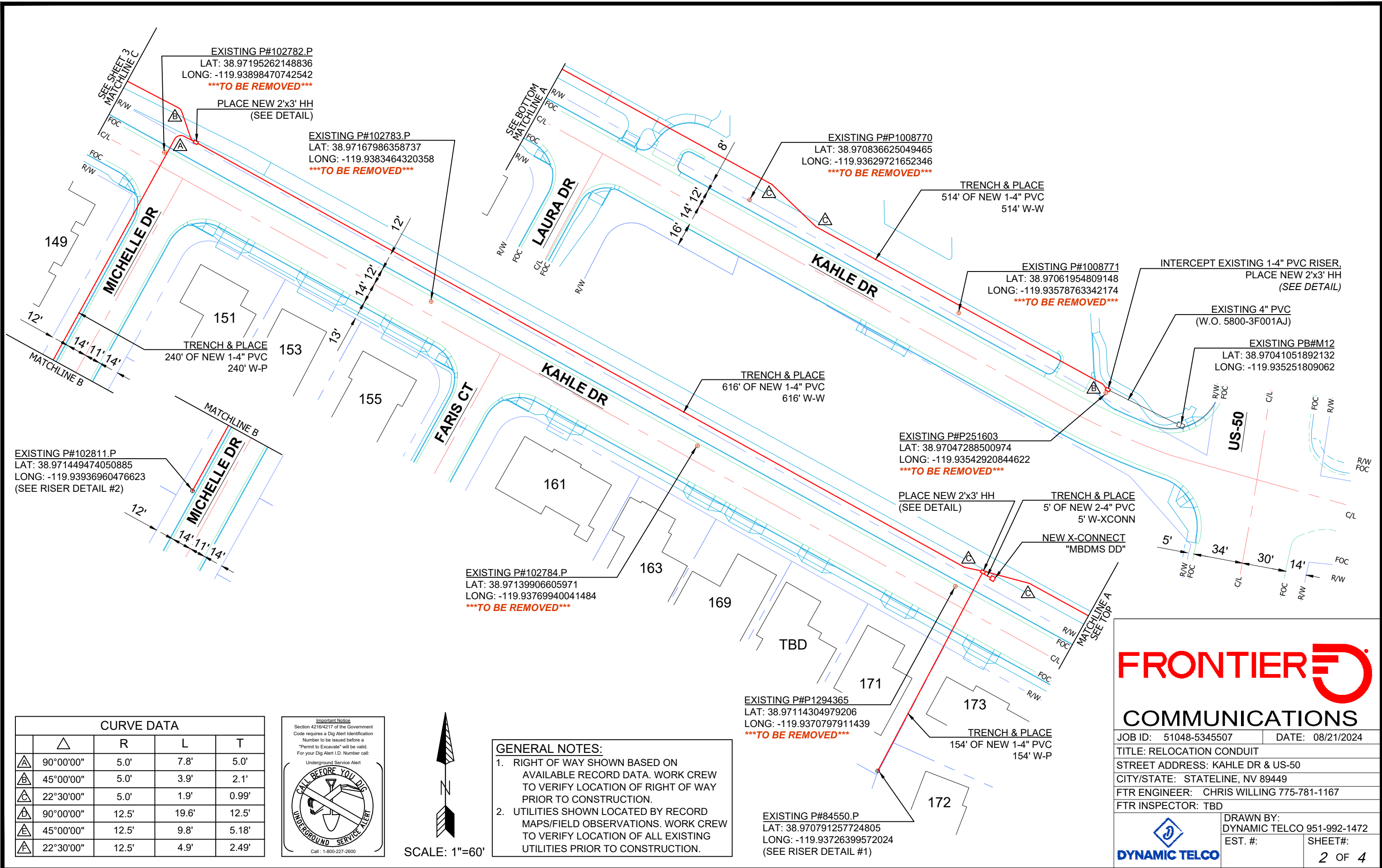
CONDUIT	
	Mainline/Backbone Conduit or ABS
	Service Lateral Conduit
	Joint Trench
	Sole Trench
	Proposed Construction Call Out
UTILITIES	
	Existing Proposed
Gas	g G
Water	w W
Telephone	t T
San Sewer	ss SS
Electric	e E
Storm Drain	sd SD
POLES	
	Existing Proposed
Frontier Owned	
Foreign Owned	
Joint Owned	
FACILITIES	
Manhole	
Handhole	
PullBox	
Bore Pit	
5/8"-8' Copper Ground Rod	
	Material provided by Frontier & Placed by Developer.
	Non-Reimbursable Material Provided & Placed by Developer.



COMMUNICATIONS

JOB ID: 51048-5345507 DATE: 08/21/2024
 TITLE: RELOCATION CONDUIT
 STREET ADDRESS: KAHLE DR & US-50
 CITY/STATE: STATELINE, NV 89449
 FTR ENGINEER: CHRIS WILLING 775-781-1167
 FTR INSPECTOR: TBD

DRAWN BY:
DYNAMIC TELCO 951-992-1472
EST. #: SHEET#:
1 OF 4



EXISTING P#102811.P
 LAT: 38.971449474050885
 LONG: -119.93936960476623
 (SEE RISER DETAIL #2)

EXISTING P#102782.P
 LAT: 38.97195262148836
 LONG: -119.93898470742542
 TO BE REMOVED

PLACE NEW 2'x3' HH
 (SEE DETAIL)

EXISTING P#102783.P
 LAT: 38.97167986358737
 LONG: -119.9383464320358
 TO BE REMOVED

EXISTING P#P1008770
 LAT: 38.970836625049465
 LONG: -119.93629721652346
 TO BE REMOVED

TRENCH & PLACE
 514' OF NEW 1-4" PVC
 514' W-W

EXISTING P#1008771
 LAT: 38.97061954809148
 LONG: -119.93578763342174
 TO BE REMOVED

INTERCEPT EXISTING 1-4" PVC RISER,
 PLACE NEW 2'x3' HH
 (SEE DETAIL)

EXISTING 4" PVC
 (W.O. 5800-3F001AJ)

EXISTING PB#M12
 LAT: 38.97041051892132
 LONG: -119.935251809062

TRENCH & PLACE
 616' OF NEW 1-4" PVC
 616' W-W

EXISTING P#P251603
 LAT: 38.97047288500974
 LONG: -119.93542920844622
 TO BE REMOVED

PLACE NEW 2'x3' HH
 (SEE DETAIL)

TRENCH & PLACE
 5' OF NEW 2-4" PVC
 5' W-XCONN

NEW X-CONNECT
 "MBDMS DD"

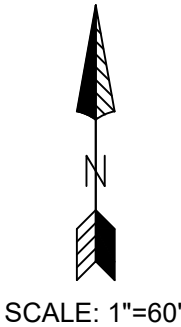
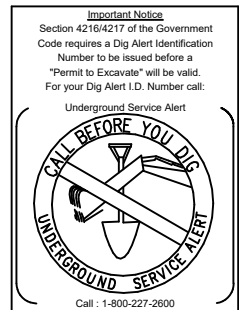
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 LAT: 38.97139906605971
 LONG: -119.93769940041484
 TO BE REMOVED

EXISTING P#P1294365
 LAT: 38.97114304979206
 LONG: -119.9370797911439
 TO BE REMOVED

TRENCH & PLACE
 154' OF NEW 1-4" PVC
 154' W-W

EXISTING P#84550.P
 LAT: 38.970791257724805
 LONG: -119.93726399572024
 (SEE RISER DETAIL #1)

CURVE DATA				
	Δ	R	L	T
△	90°00'00"	5.0'	7.8'	5.0'
△	45°00'00"	5.0'	3.9'	2.1'
△	22°30'00"	5.0'	1.9'	0.99'
△	90°00'00"	12.5'	19.6'	12.5'
△	45°00'00"	12.5'	9.8'	5.18'
△	22°30'00"	12.5'	4.9'	2.49'



GENERAL NOTES:

- RIGHT OF WAY SHOWN BASED ON AVAILABLE RECORD DATA. WORK CREW TO VERIFY LOCATION OF RIGHT OF WAY PRIOR TO CONSTRUCTION.
- UTILITIES SHOWN LOCATED BY RECORD MAPS/FIELD OBSERVATIONS. WORK CREW TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

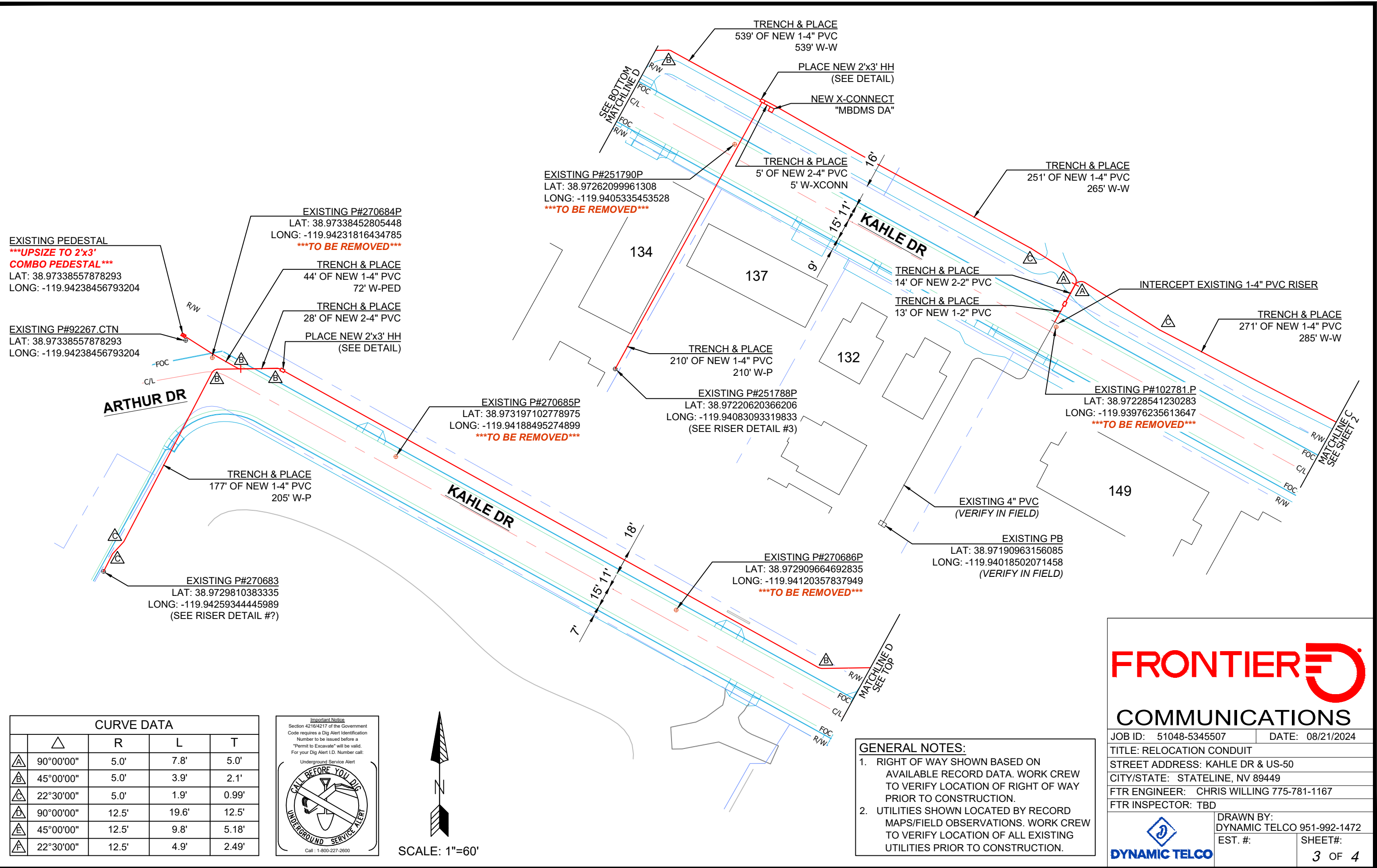


FRONTIER COMMUNICATIONS

JOB ID: 51048-5345507 DATE: 08/21/2024
 TITLE: RELOCATION CONDUIT
 STREET ADDRESS: KAHLE DR & US-50
 CITY/STATE: STATELINE, NV 89449
 FTR ENGINEER: CHRIS WILLING 775-781-1167
 FTR INSPECTOR: TBD



DRAWN BY:
 DYNAMIC TELCO 951-992-1472
 EST. #: SHEET#:
 2 OF 4



EXISTING PEDESTAL
*****UPSIZE TO 2'x3' COMBO PEDESTAL*****
 LAT: 38.97338557878293
 LONG: -119.94238456793204

EXISTING P#92267.CTN
 LAT: 38.97338557878293
 LONG: -119.94238456793204

EXISTING P#270684P
 LAT: 38.97338452805448
 LONG: -119.94231816434785
*****TO BE REMOVED*****

TRENCH & PLACE
 44' OF NEW 1-4" PVC
 72' W-PED

TRENCH & PLACE
 28' OF NEW 2-4" PVC

PLACE NEW 2'x3' HH
 (SEE DETAIL)

EXISTING P#251790P
 LAT: 38.97262099961308
 LONG: -119.9405335453528
*****TO BE REMOVED*****

TRENCH & PLACE
 5' OF NEW 2-4" PVC
 5' W-XCONN

TRENCH & PLACE
 251' OF NEW 1-4" PVC
 265' W-W

TRENCH & PLACE
 14' OF NEW 2-2" PVC

TRENCH & PLACE
 13' OF NEW 1-2" PVC

INTERCEPT EXISTING 1-4" PVC RISER

TRENCH & PLACE
 271' OF NEW 1-4" PVC
 285' W-W

EXISTING P#270685P
 LAT: 38.973197102778975
 LONG: -119.94188495274899
*****TO BE REMOVED*****

EXISTING P#251788P
 LAT: 38.97220620366206
 LONG: -119.94083093319833
 (SEE RISER DETAIL #3)

EXISTING P#102781.P
 LAT: 38.97228541230283
 LONG: -119.93976235613647
*****TO BE REMOVED*****

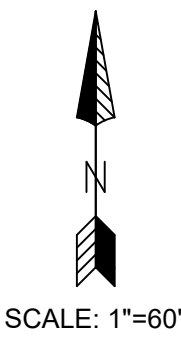
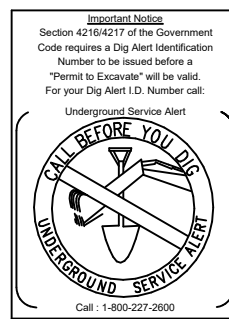
TRENCH & PLACE
 177' OF NEW 1-4" PVC
 205' W-P

EXISTING P#270683
 LAT: 38.9729810383335
 LONG: -119.94259344445989
 (SEE RISER DETAIL #?)

EXISTING P#270686P
 LAT: 38.972909664692835
 LONG: -119.94120357837949
*****TO BE REMOVED*****

EXISTING PB
 LAT: 38.97190963156085
 LONG: -119.94018502071458
 (VERIFY IN FIELD)

CURVE DATA				
	Δ	R	L	T
△	90°00'00"	5.0'	7.8'	5.0'
△	45°00'00"	5.0'	3.9'	2.1'
△	22°30'00"	5.0'	1.9'	0.99'
△	90°00'00"	12.5'	19.6'	12.5'
△	45°00'00"	12.5'	9.8'	5.18'
△	22°30'00"	12.5'	4.9'	2.49'



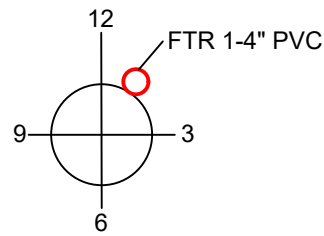
GENERAL NOTES:

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- UTILITIES SHOWN LOCATED BY RECORD MAPS/FIELD OBSERVATIONS. WORK CREW TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

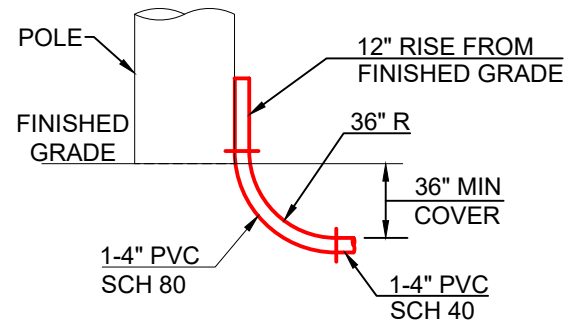
FRONTIER COMMUNICATIONS

JOB ID: 51048-5345507	DATE: 08/21/2024
TITLE: RELOCATION CONDUIT	
STREET ADDRESS: KAHLE DR & US-50	
CITY/STATE: STATELINE, NV 89449	
FTR ENGINEER: CHRIS WILLING 775-781-1167	
FTR INSPECTOR: TBD	
	DRAWN BY: DYNAMIC TELCO 951-992-1472
	EST. #: SHEET#: 3 OF 4

KAHLE DR
STREET/CURB SIDE



PLAN VIEW



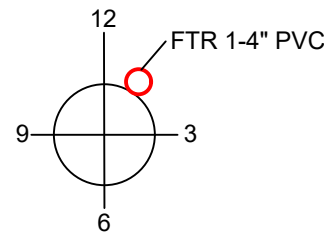
ELEVATION

EXISTING P#84550.P
LAT: 38.970791257724805
LONG: -119.93726399572024

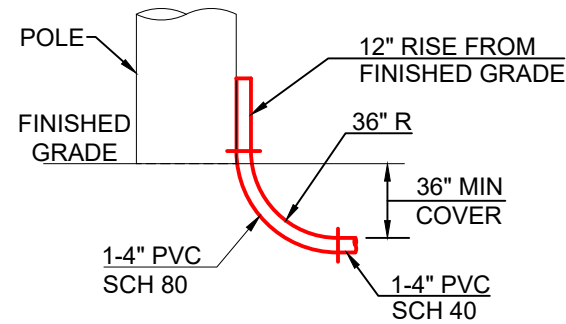
**EXISTING POLE
RISER DETAIL #1**

N.T.S.

KAHLE DR
STREET/CURB SIDE



PLAN VIEW



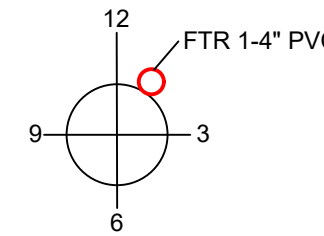
ELEVATION

EXISTING P#102811.P
LAT: 38.971449474050885
LONG: -119.93936960476623

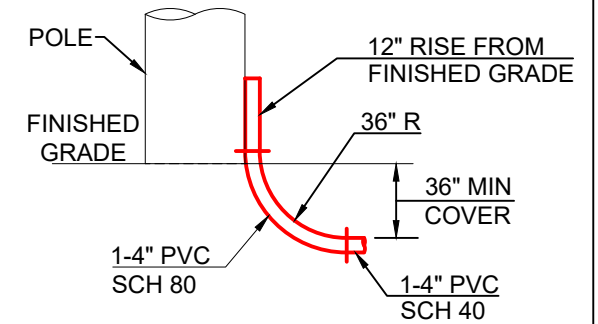
**EXISTING POLE
RISER DETAIL #2**

N.T.S.

KAHLE DR
STREET/CURB SIDE



PLAN VIEW



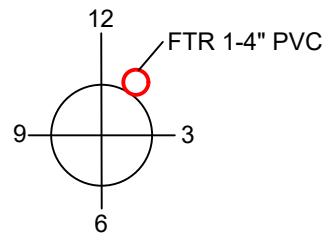
ELEVATION

EXISTING P#251788P
LAT: 38.97220620366206
LONG: -119.94083093319833

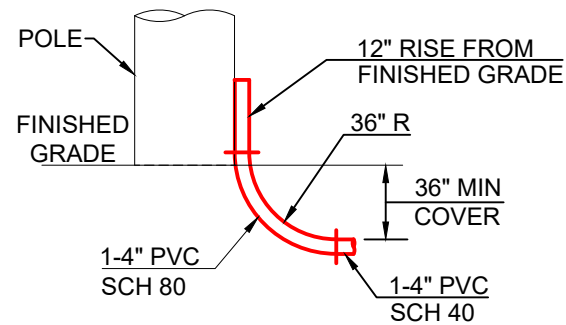
**EXISTING POLE
RISER DETAIL #3**

N.T.S.

KAHLE DR
STREET/CURB SIDE



PLAN VIEW

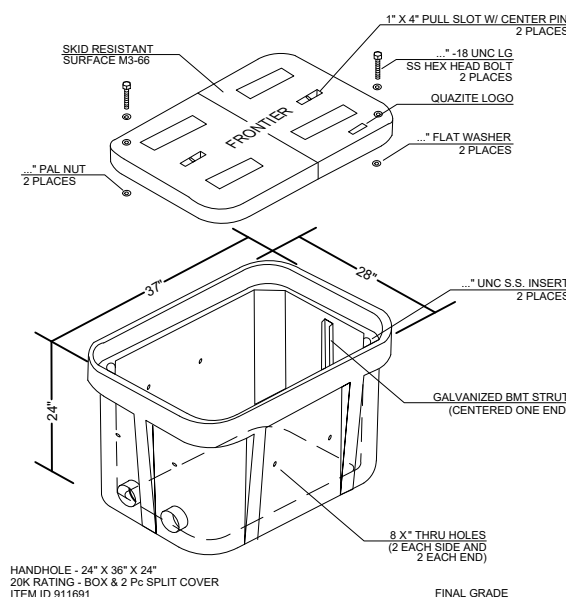


ELEVATION

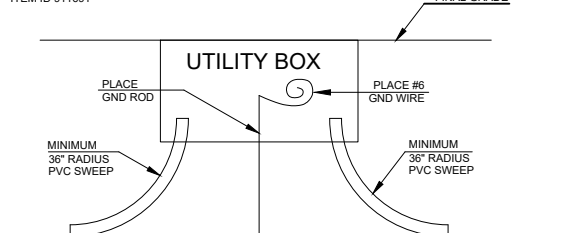
EXISTING P#270683
LAT: 38.9729810383335
LONG: -119.94259344445989

**EXISTING POLE
RISER DETAIL #4**

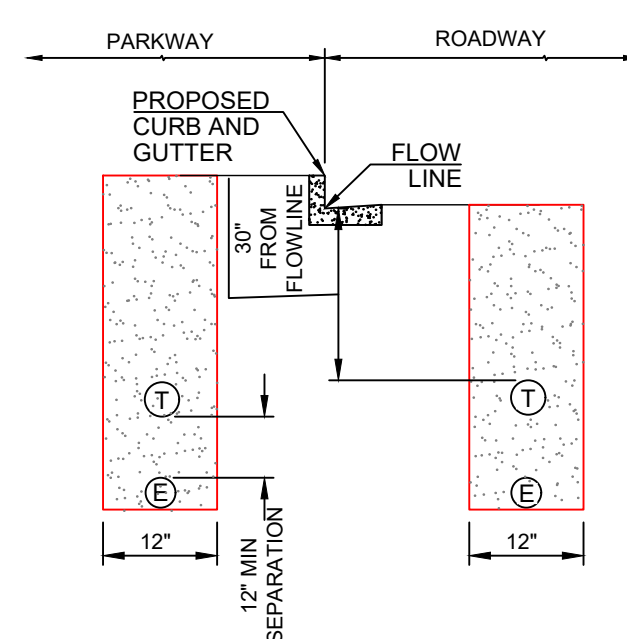
N.T.S.



HANDHOLE - 24\"/>



**SWEEP DETAIL
HANDHOLE DETAIL-2'x3'**



**PUBLIC R/W TRENCH DETAIL
N.T.S.**



COMMUNICATIONS

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DRAWN BY:
DYNAMIC TELCO 951-992-1472
EST. #: SHEET#:
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