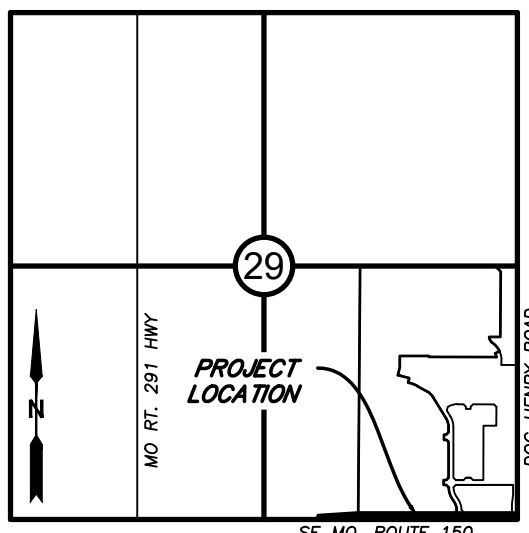


MISSOURI STATE HIGHWAY 150 WIDENING PLANS FOR COBEY CREEK - 2ND PLAT

STA. 456+67.28 TO STA. 475+36.91
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
SEC. 29, TWP. 47N, RNG. 31W
[PROJECT NOT MODOT FUNDED]



VICINITY MAP

SECTION 29, TOWNSHIP 47, RANGE 31
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
NOT TO SCALE



Know what's below.
Call before you dig.



UTILITY CONTACTS:

SANITARY & WATER:

CITY OF LEE'S SUMMIT
JEFF THORN
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
PHONE (816) 969-1900

STORMWATER:

CITY OF LEE'S SUMMIT
PUBLIC WORKS
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
PHONE (816) 969-1800

STREETS:

CITY OF LEE'S SUMMIT
SUSAN BERRY
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
PHONE (816) 969-1900

AT&T:

RONALD GIPFERT
500 E 8TH STREET
KANSAS CITY, MO 64106
PHONE (816) 275-1550

EVERGY:

DOUG DAVIN
1300 SE HAMLEN ROAD
LEE'S SUMMIT, MO 64081
PHONE (816) 347-4320

SPIRE GAS ENERGY:

PEGGY BURNS-YOCUM
3025 SW CLOVER DRIVE
LEE'S SUMMIT, MO 64082
PHONE (816) 985-8888

MISSOURI DEPARTMENT OF TRANSPORTATION:

NATHAN M JULIANA
600 NE COLBERN RD.
LEE'S SUMMIT, MO 64086
PHONE (816) 607-2185

FEMA FLOOD INFORMATION:

THE SUBJECT PROPERTY LIES IN ZONE X, OTHER FLOOD AREAS, AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE ANNUAL FLOODPLAIN, AS SHOWN ON FLOOD INSURANCE RATE MAP 29095C0551G EFFECTIVE JANUARY 20, 2017.

BENCHMARK:

PROJECT BENCHMARK T 201
ALUMINUM CAP IN TOP OF CONCRETE BASE OF FIRST PILLAR OF HWY 150 AND MISSOURI PACIFIC RAILROAD.
ELEV=917.39

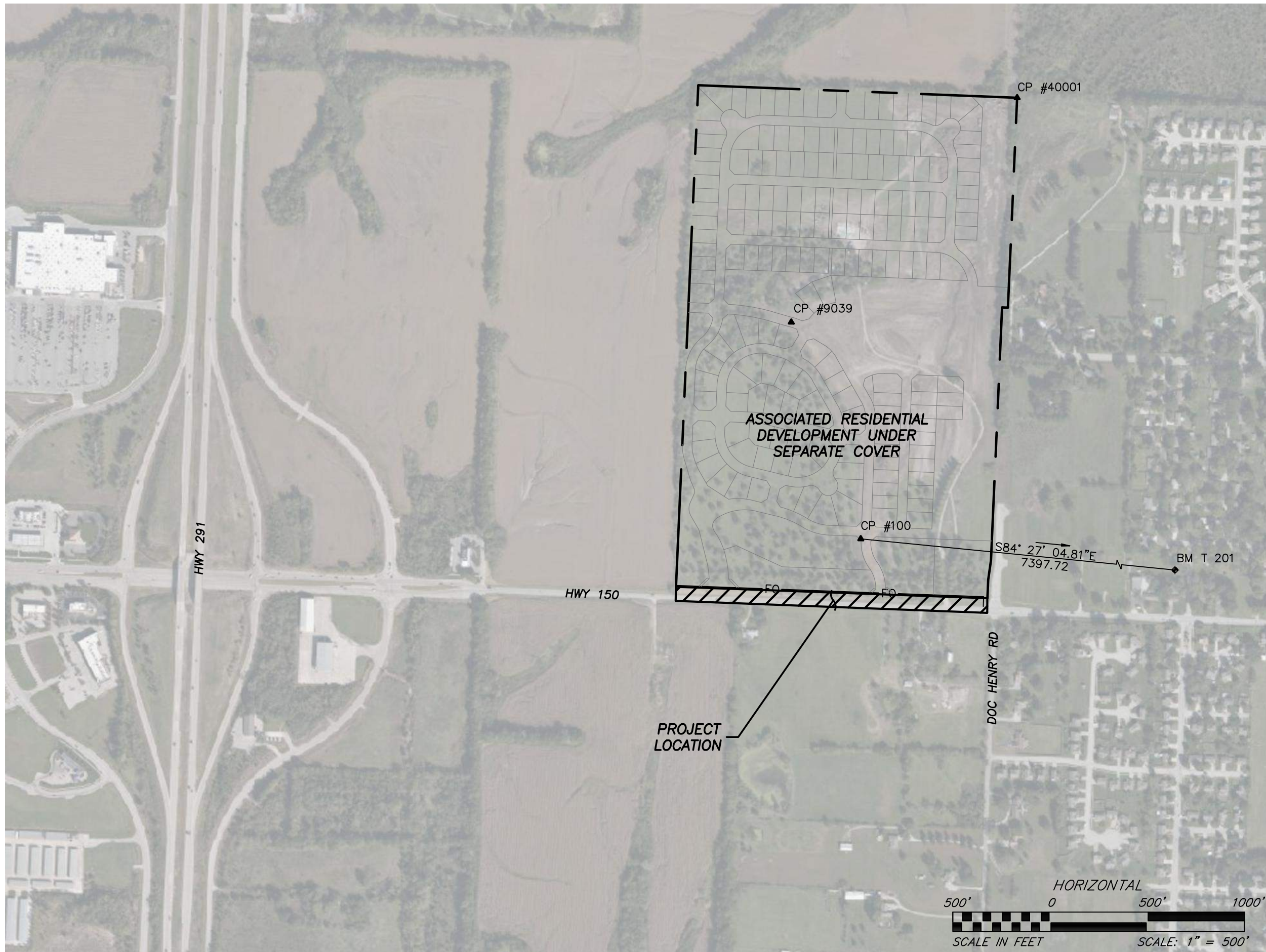
ADT: 13,421 (2017)

DESIGN SPEED: 45 MPH

WATERSHED: MIDDLE BIG CREEK

MINOR ARTERIAL

DATE: 4/7/23



DISTURBED AREA: 2.37 ACRES

MDNR LAND DISTURBANCE PERMIT #MORA22186

SURVEY CONTROL:

CP #100
CHISELED "+\" ON CURB INLET
CURB INLET AT THE SOUTHWEST CORNER OF SE GILLETTE ROAD AND SE COBEY CREEK DRIVE
N: 978174.32
E: 2827539.80
EL: 1005.17

CP #9039
BAR AND CAP STAMPED 2006016633 CENTERLINE OF SE COBEY CREEK DRIVE AT THE DEAD END
N: 979305.16
E: 2827174.35
EL: 1002.42

CP #40001
ALUMINUM CAP STAMPED KS 1069 MO 2134 NORTHEAST CORNER OF THE PROJECT
N: 980459.77
E: 2828336.04
EL: 967.82

GENERAL NOTES:

- CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE EXISTING CONDITIONS OF THE SITE AND HAVE ALL UTILITIES MARKED PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL POTHOLE ALL CONNECTION POINTS TO EXISTING UTILITIES AND POTENTIAL UTILITY CONFLICT LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES. NOTIFY ENGINEER IMMEDIATELY IF CONFLICT OR DISCREPANCY EXISTS.
- CONTRACTOR SHALL PROTECT EXISTING STRUCTURES TO REMAIN FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED/ REPLACED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION AND MODOT TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY WORK IN THE RIGHT-OF-WAY AT (816) 969-1200.

DEVELOPER:

BRAD KEMPF
SUMMIT HOMES KC
120 SE 30TH STREET
LEE'S SUMMIT, MO 64082
BRADLEY@SUMMITHOMESKC.COM
(816) 927-9711

CIVIL ENGINEER:

PATRICK JOYCE, P.E.
ANDERSON ENGINEERING, INC.
941 W 141ST TERR
KANSAS CITY, MO 64145
P.JOYCE@AE-INC.COM
(816) 777-0400 EXT. 508

SHEET INDEX:

SHEET #	SHEET TITLE
1	COVER SHEET
2	TYPICAL SECTION
3	QUANTITIES
4	GENERAL NOTES
5	DEMO PLAN
6	GENERAL LAYOUT
7-8	PLAN & PROFILE
9	DRAINAGE MAP
10-11	STORM PLAN & PROFILE
12	INTERSECTION DETAILS
13	ADA RAMP DETAILS
14	STRIPING PLAN
15	SIGNAGE PLAN
16	LIGHTING PLAN
17-19	TRAFFIC CONTROL
20	EROSION CONTROL
21-22	STANDARD DETAILS
23	STORM SEWER DETAILS
24-25	CURB DETAILS
26-28	MEDIAN DETAILS
29-32	CURB RAMP DETAILS
33-41	TRAFFIC CONTROL DETAILS
42-47	PAVEMENT MARKING
48	PIPE INSTALL DETAILS
49-51	EROSION CONTROL DETAILS
52-61	LIGHTING DETAILS
62-66	CROSS SECTIONS

PROJECT SPECIFICATIONS:

THE SPECIFICATIONS FOR THIS PROJECT SHALL BE THE FOLLOWING:

- MOST CURRENT VERSION OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

THE STANDARD SPECIFICATIONS THROUGH AND INCLUDING THE LATEST AMENDMENTS SHALL BE PART OF THESE PROJECT DRAWINGS AND SPECIFICATIONS AND ARE INCORPORATED HEREIN BY REFERENCE. THE MORE STRINGENT OF THESE STANDARD SPECIFICATIONS AND THOSE PREPARED BY THE ENGINEER PREPARING THESE PLANS SHALL GOVERN.

PREPARED & SUBMITTED BY:

ANDERSON ENGINEERING INC.
KANSAS CITY, MISSOURI

Patrick Joyce

PATRICK JOYCE, P.E.
MISSOURI P.E. NO. 2009030032

04/07/2023

DATE

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0	INITIAL SUBMISSION	JGD	04/07/23
1	PER MODOT COMMENT	JGD	09/19/23
2	PER MODOT COMMENT	JGD	11/11/23
3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23
		CHECK BY:	PJJ
		LICENSE NO.	PE-2009030032
		DATE:	04/07/22
		FOR REVIEW	
		FIELD BOOK:	21KC10060
		JOB NUMBER:	
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

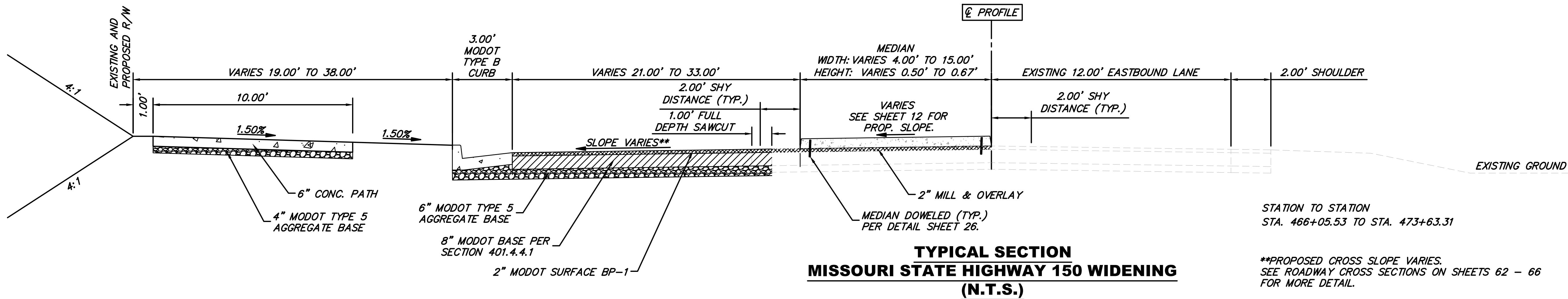
COVER SHEET

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

1
1 OF 66

[illegible]

SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

TYPICAL SECTION



S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

04/07/2023

SHEET NUMBER

2

2 OF 66

SUMMARY OF QUANTITIES

MODOT HIGHWAY 150 - QUANTITIES			
NO.	DESCRIPTION	QUANTITY	UNITS
1	MOBILIZATION	1	LS
2	CLEARING, GRUBBING, AND DEMOLITION	1	LS
3	CONTRACTOR CONSTRUCTION STAKING	1	LS
4	ASPHALT SURFACE (MODOT SURFACE BP-1) (2")	3926	SY
5	ASPHALT BASE (MODOT BASE PER 401.4.4.1) (8")	3926	SY
6	TYPE-5 AGGREGATE (4")	3926	SY
7	CONCRETE PAVEMENT (DRIVES)	397	SY
8	CONCRETE PAVEMENT (MEDIANS)	437	SY
9	2" MILL AND OVERLAY	3096	SY
10	CURB AND GUTTER (3')	1569	LF
11	CURB AND GUTTER (6") (MEDIAN)	1078	LF
12	ASPHALT SIDEWALK (6") (10')	1228	SY
13	TRUNCATED DOMES	2	EA
14	STORM SEWER(15") (RCP)	694	LF
15	STORM SEWER (18") (RCP)	120	LF
16	STORM SEWER (24") (RCP)	314	LF
17	CURB INLET (6"x4')	6	EA
18	R4-7 (24"x30"), KEEP RIGHT SIGN	4	EA
19	R6-1R (36"x12", ONE WAY SIGN	2	EA
20	SIGN POST (1.75" PERFORATED SQUARE STEEL TUBE)	6	EA
21	PAVEMENT MARKING (PAINT) (WHITE) (6")	2125	LF
22	PAVEMENT MARKING (THERMOPLASTIC) (WHITE) (STOP) (24")	46	LF
23	PAVEMENT MARKING (PAINT) (DOUBLE YELLOW) (4")	1714	LF
24	PAVEMENT MARKING (PAINT) (YELLOW) (DIAGONAL) (24")	232	LF
25	PAVEMENT MARKING SYMBOL (THERMOPLASTIC) (WHITE) (RT TURN ARROW)	4	EA
26	PAVEMENT MARKING SYMBOL (THERMOPLASTIC) (WHITE) (LT TURN ARROW)	4	EA
27	TRAFFIC CONTROL	1	LS
28	TEMPORARY SEEDING	0.57	AC
29	PERMANENT SEEDING	0.57	AC
30	SILT FENCE	1747	LF
31	INLET PROTECTION	7	EA
32	30' ALUMINUM LIGHT POLE	3	EA
33	MODOT LED A LUMINAIRES	3	EA

EARTHWORK QUANTITIES	
ACTIVITY	EXCAVATION AND EMBANKMENT (CY)
CUT	700
FILL	1306
NET	606 (FILL)

NOTE: PROPOSED EARTHWORK QUANTITIES ARE UN-ADJUSTED FOR PAVEMENT SECTIONS.



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0	INITIAL SUBMISSION	JGD	04/07/22		JGD		
1	PER MODOT COMMENT	JGD	05/13/22		PJJ		
2	PER MODOT COMMENT	JGD	08/09/22				
3	PER MODOT COMMENT	JGD	01/19/23		PE-2009030032		
4	PER MODOT COMMENT	JGD	04/07/23		DATE:	04/07/22	
					FIELD BOOK:	FOR REVIEW	
					JOB NUMBER:	21KC10060	
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 130 WIDENING

QUANTITIES

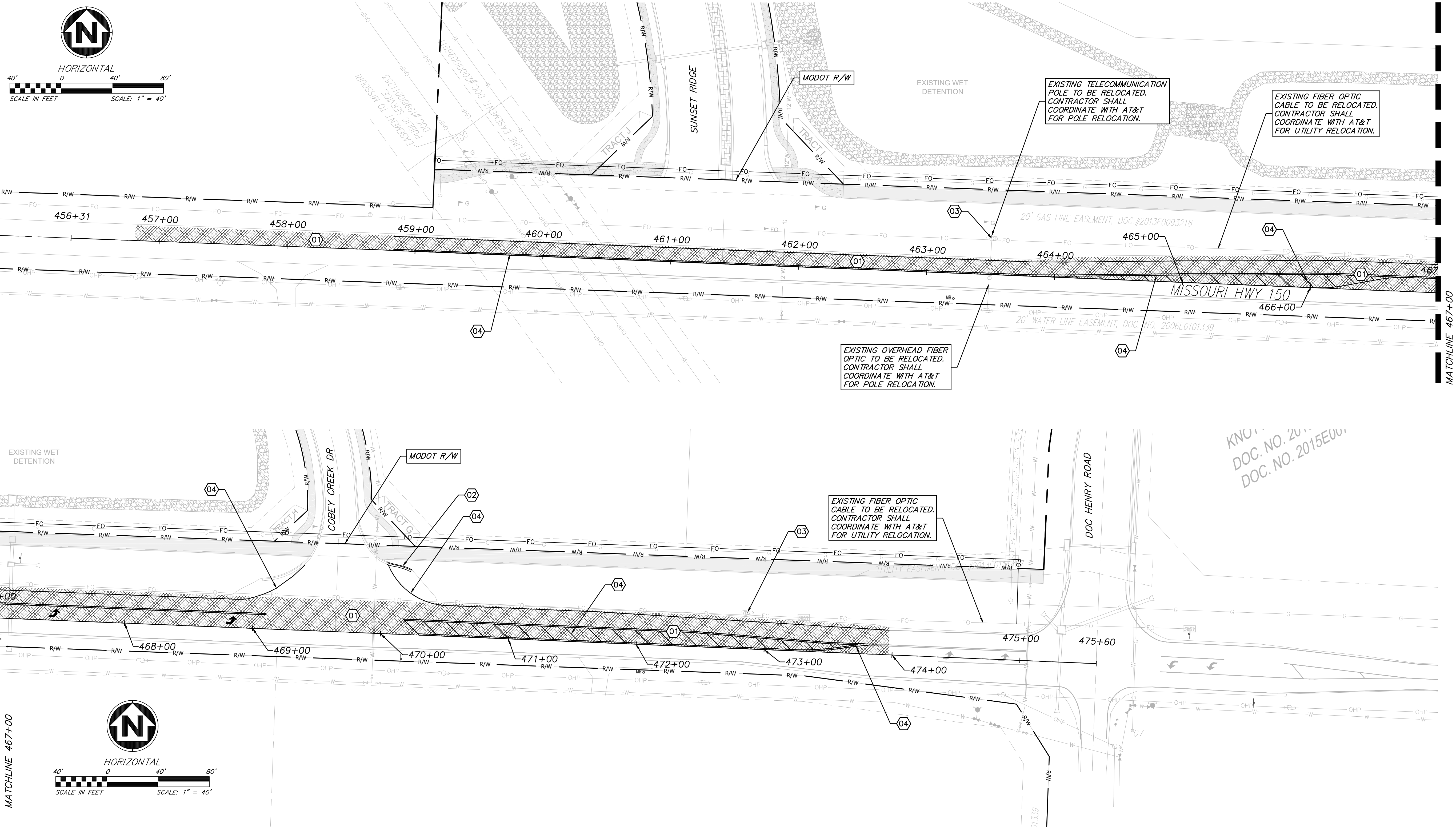
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

3
3 OF 66

Apr 07, 2023 - 1:44pm Plotted By: Jfield G:\Shared drives\K1010 - Land Development\Projects\2021\21K10060 Cobey Creek Residential\01 CIVL\03-DWG\Sheet\Mod01 150 HWY WIDENING\21K10060-CIV-GENL.dwg Layout: DEMO SHEET



DEMOLITION PLAN KEY NOTES

- 01 MILL 2" EXISTING PAVEMENT DEPTH AND DISPOSE OF EXISTING ASPHALTIC CONCRETE PAVEMENT. REFERENCE SHEET 18 FOR MILLING OPERATION SEQUENCE AND TRAFFIC CONTROL.
- 02 REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER.
- 03 REMOVE AND DISPOSE OF EXISTING TELECOM POLE. COORDINATE WITH AT&T ON EXISTING FIBER LINE RELOCATION AND POLE DEMOLITION.
- 04 OBLITERATE EXISTING PAVEMENT MARKINGS AS NECESSARY TO ACCOMMODATE TRAFFIC CONTROL PHASING.

LEGEND

EXISTING PAVEMENT TO BE MILLED (2" DEPTH)

DEMOLITION PLAN GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL ITEMS ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT A REQUIRED PART OF THE PROPOSED PROJECT UPON COMPLETION.
3. CONTRACTOR SHALL COORDINATE WITH OWNER ON SALVAGING AND DISPOSAL OF DEMOLISHED/REMOVED ITEMS.
4. CONTRACTOR SHALL PROTECT OFFSITE IMPROVEMENTS (INCLUDING BUT NOT LIMITED TO SIDEWALKS, DRIVES, UTILITIES, CURBS, AND PAVING) SURROUNDING THE PROJECT BOUNDARY FROM DAMAGE DURING DEMOLITION ACTIVITY. ALL PAVEMENT REMOVALS SHALL BE SAWCUT WITH CLEAN FULL DEPTH CUTS ADJACENT TO EXISTING PAVEMENT TO REMAIN. CONTRACTOR SHALL INSTALL AND MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL SIGNAGE IN COMPLIANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION AND CITY OF LEE'S SUMMIT REQUIREMENTS. CONTRACTOR SHALL NOT OBSTRUCT ACCESS TO EXISTING BUSINESSES.
5. CONTRACTOR SHALL INSTALL SAFETY FENCING SURROUNDING ALL EXCAVATIONS DURING DEMOLITION OF STRUCTURES, AREAS OF HEAVY EQUIPMENT USAGE FOR SITE GRADING AND GRUBBING, TREE REMOVAL AREAS, AND ANY OTHER AREAS WHERE PEDESTRIAN OR VEHICULAR TRAFFIC MAY ENCROACH. THIS FENCING SHALL BE INSTALLED NO LATER THAN THE END OF EACH WORKING DAY. CONTRACTOR SHALL REPAIR AND MAINTAIN FENCING IN AN ORDERLY MANNER. CONTRACTOR MAY RE-USE FENCING MATERIALS AFTER ALL DEMOLITION ACTIVITIES HAVE BEEN COMPLETED FOR THAT AREA OF WORK.

SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

DEMO SHEET

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

5
OF 66

REVISIONS

NO.	DESCRIPTION	BY	DATE
0	INITIAL SUBMISSION	JGD	04/07/22
1	PER MODOT COMMENT	JGD	09/13/22
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3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23

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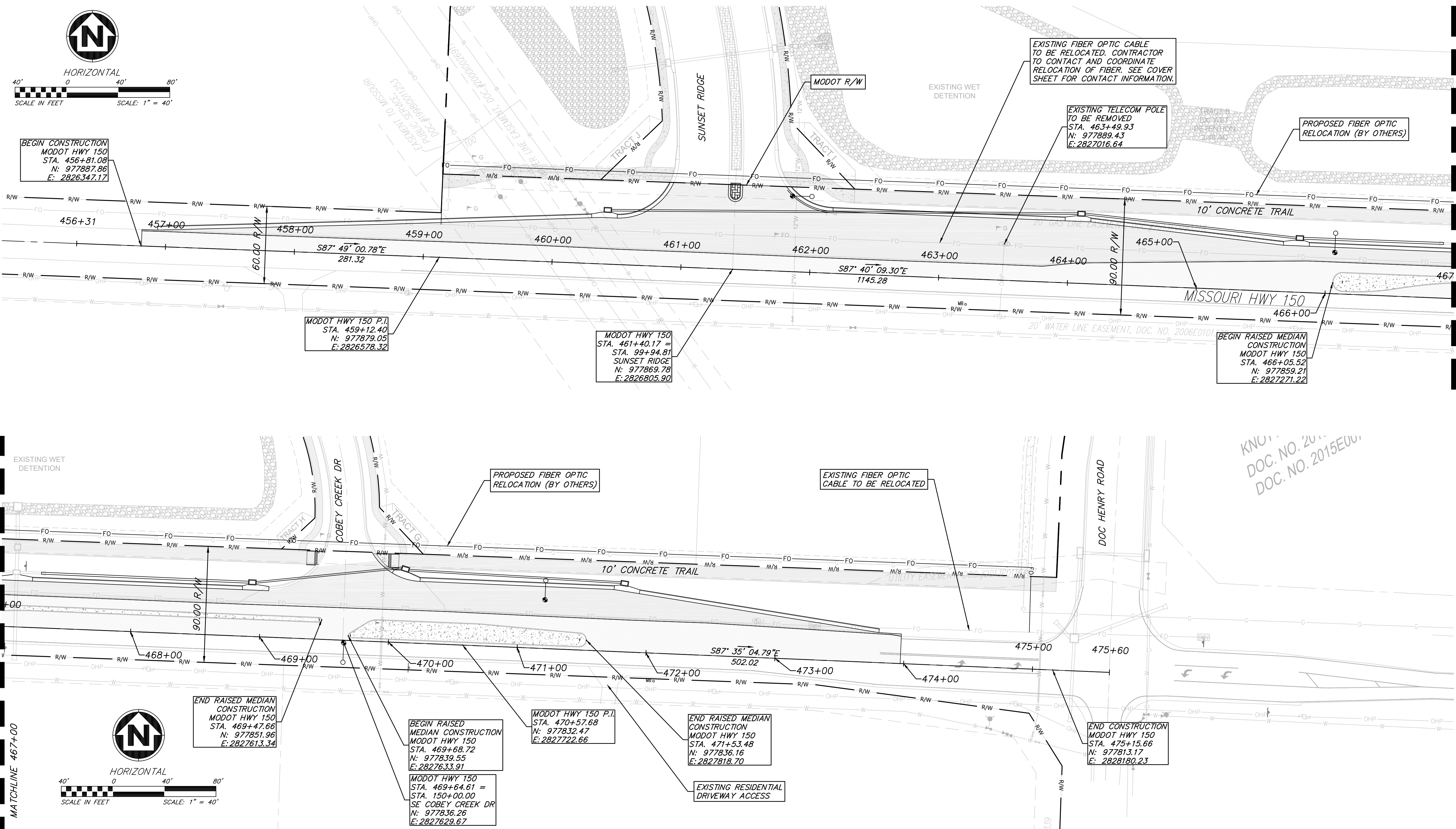
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MODOT HIGHWAY 150 SURVEY AND ALIGNMENT CONTROL TABLE								
NUMBER	LENGTH	DIRECTION	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING
L1	281.32	S87°49'00.78"E	456+31.08	977889.76	2826297.21	459+12.40	977879.05	2826578.32
L2	1145.29	S87°40'09.30"E	459+12.40	977879.05	2826578.32	470+57.68	977832.47	2827722.66
L3	502.02	S87°35'04.79"E	470+57.68	977832.47	2827722.66	475+57.68	977811.32	2828224.23

- LEGEND**
- PROPOSED ASPHALTIC CONCRETE PAVEMENT
 - PROPOSED MILL & OVERLAY PAVEMENT SECTION
 - EXISTING ASPHALTIC CONCRETE PAVEMENT
 - PROPOSED CURB AND GUTTER
 - PROPOSED CONCRETE MEDIAN

REVISIONS		DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE
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3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23
FOR REVIEW		FIELD BOOK:	21K101000
		JOB NUMBER:	21K101000

SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING
GENERAL LAYOUT
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

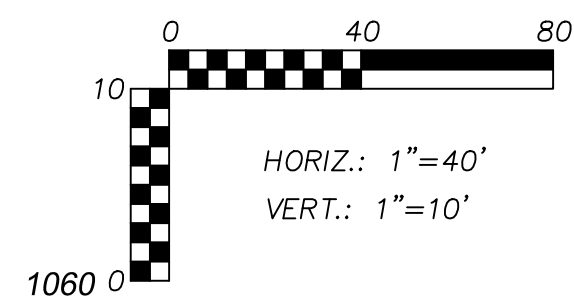
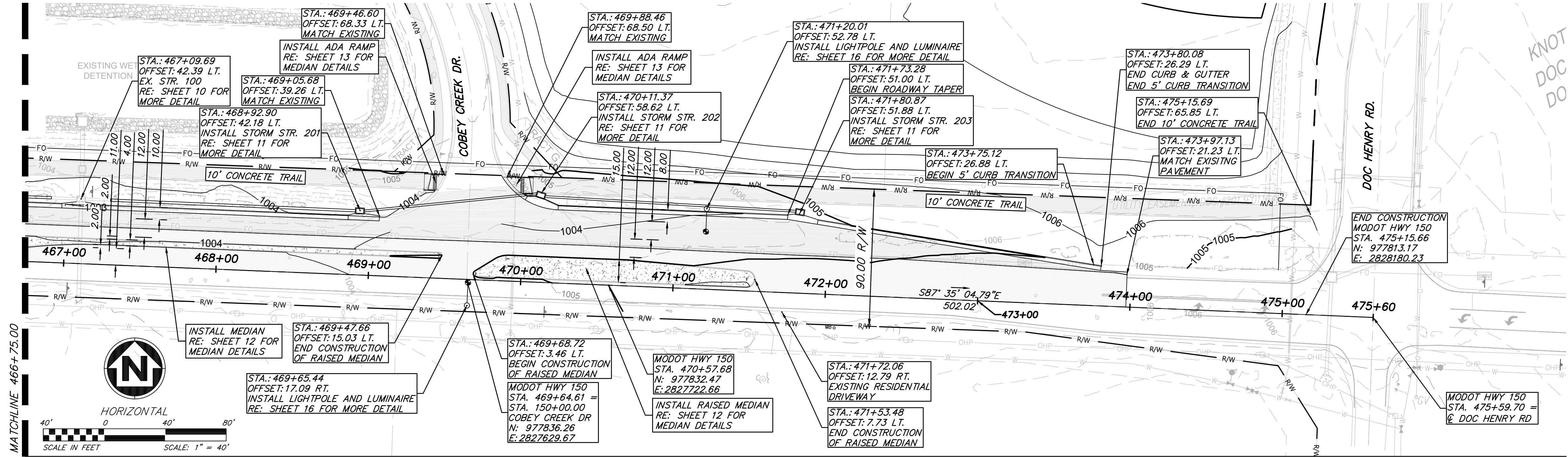


SHEET NUMBER
6
6 OF 66

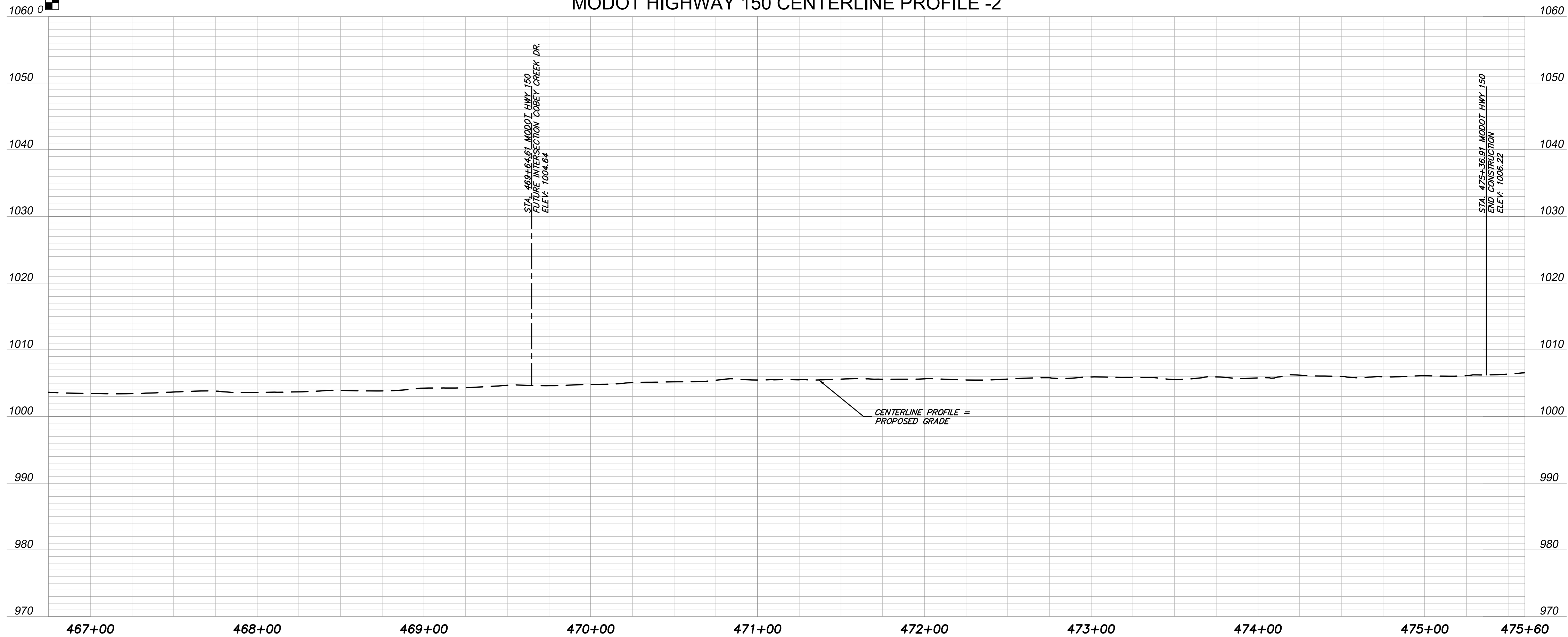
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MODOT HIGHWAY 150 CENTERLINE PROFILE -2



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		JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

PLAN & PROFILE-2

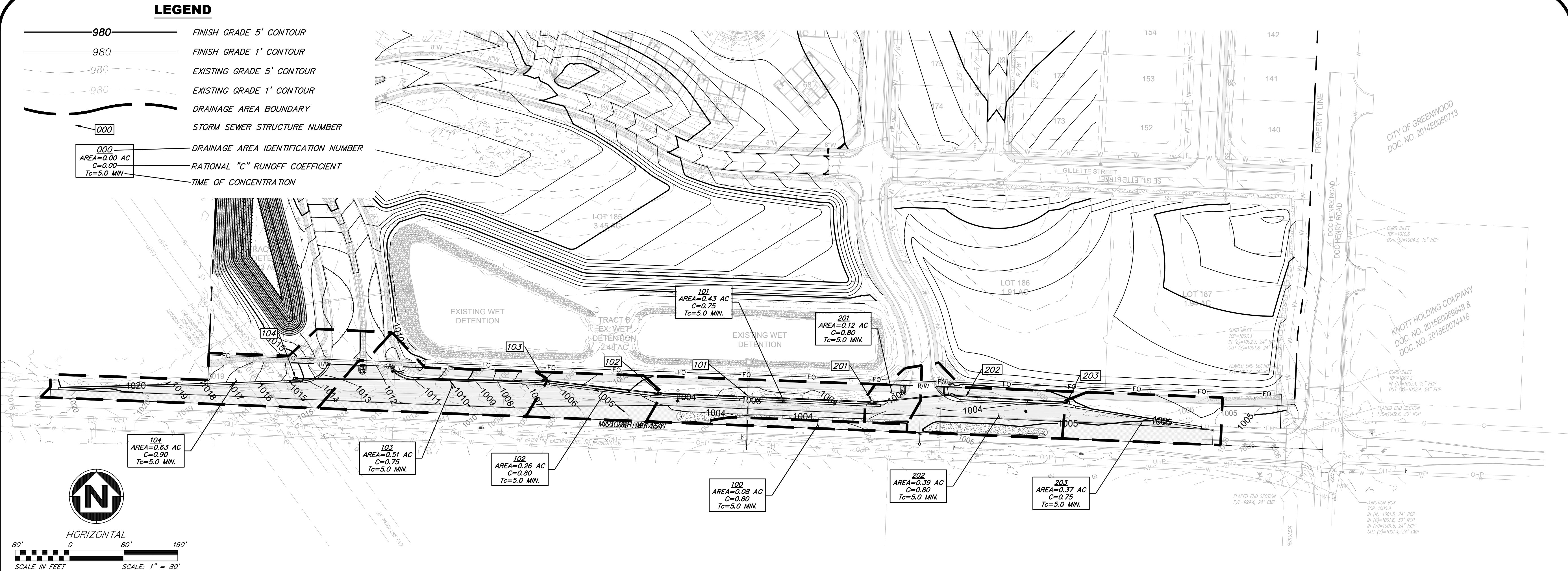
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SHEET NUMBER

8
OF 66

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Highway 150 Widening: 10-Yr Storm Summary																											
LineNo.	LineID	DnStrmLine No.	RunoffCoeff	DrainageArea	IncrCxA	TotalArea	Tc	iSys	InletTime	IncrQ	TotalRunoff	InvertUp	InvertDn	LineLength	LineSlope	LineSize	n-valuePipe	FlowRate	CapacityFull	VelAve	HGLUp	HGLDn	EGLUp	EGLDn	GutterSpread	QCaptured	QBypass
			(C)	(ac)		(ac)	(min)	(in/hr)	(min)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)
1	99	Outfall	0.30	0.01	0.00	2.29	9.10	6.56	5.00	0.03	11.66	997.66	997.20	63.15	0.73	27.00	0.013	11.66	26.43	5.00	998.84	998.60	999.31	999.07	0.05	0.03	0.00
2	101	1	0.80	0.26	0.21	1.40	7.40	7.17	5.00	1.74	7.80	998.65	998.16	131.00	0.37	24.00	0.013	7.80	13.83	4.54	999.72	999.24	1000.04	999.55	0.08	1.74	0.00
3	102	2	0.80	0.51	0.41	1.14	6.90	7.40	5.00	3.41	6.51	1002.20	999.40	170.42	1.64	15.00	0.013	6.51	8.28	6.75	1003.23	1000.24	1003.79	1000.80	0.10	3.41	0.00
4	103	3	0.75	0.63	0.47	0.63	5.00	8.36	5.00	3.95	3.95	1010.20	1002.40	367.34	2.12	15.00	0.013	3.95	9.41	4.66	1011.00	1003.23	1011.35	1003.58	0.05	3.95	0.00
5	200	1	0.80	0.12	0.10	0.88	7.30	7.25	5.00	0.80	4.97	999.25	998.36	183.03	0.49	24.00	0.013	4.97	15.77	4.40	1000.03	999.13	1000.33	999.42	0.08	0.80	0.00
6	201	5	0.80	0.39	0.31	0.76	6.50	7.58	5.00	2.61	4.47	1000.05	999.45	119.18	0.50	18.00	0.013	4.47	7.45	4.41	1000.89	1000.29	1001.19	1000.59	0.12	2.61	0.00
7	202	6	0.75	0.37	0.28	0.37	5.00	8.36	5.00	2.32	2.32	1001.10	1000.25	170.14	0.50	15.00	0.013	2.32	4.56	3.38	1001.71	1001.04	1001.95	1001.16	0.12	2.32	0.00

Highway 150 Widening: 100-Yr Storm Summary																											
LineNo.	LineID	DnStrmLine No.	RunoffCoeff	DrainageArea	IncrCxA	TotalArea	Tc	iSys	InletTime	IncrQ	TotalRunoff	InvertUp	InvertDn	LineLength	LineSlope	LineSize	n-valuePipe	FlowRate	CapacityFull	VelAve	HGLUp	HGLDn	EGLUp	EGLDn	GutterSpread	QCaptured	QBypass
			(C)	(ac)		(ac)	(min)	(in/hr)	(min)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)
1	99	Outfall	0.30	0.01	0.00	2.29	7.70	10.55	5.00	0.04	18.75	997.66	997.20	63.15	0.73	27.00	0.013	18.75	26.43	6.90	999.17	998.60	999.85	999.28	0.05	0.04	0.00
2	101	1	0.80	0.26	0.21	1.40	6.60	11.27	5.00	2.62	12.27	998.65	998.16	131.00	0.37	24.00	0.013	12.27	13.83	4.97	1000.12	999.63	1000.50	1000.01	0.10	2.52	0.09
3	102	2	0.80	0.51	0.41	1.14	6.30	11.53	5.00	5.14	10.16	1002.20	999.40	170.42	1.64	15.00	0.013	10.16	8.28	8.28	1004.87	1000.65	1005.93	1001.72	0.12	4.95	0.18
4	103	3	0.75	0.63	0.47	0.63	5.00	12.59	5.00	5.95	5.95	1010.20	1002.40	367.34	2.12	15.00	0.013	5.95	9.41	5.29	1011.19	1005.40	1011.70	1005.76	0.05	5.95	0.00
5	200	1	0.80	0.12	0.10	0.88	6.50	11.36	5.00	1.21	7.79	999.25	998.36	183.03	0.49	24.00	0.013	7.79	15.77	4.99	1000.25	999.35	1000.63	999.74	0.09	1.16	0.04
6	201	5	0.80	0.39	0.31	0.76	6.00	11.74	5.00	3.93	6.92	1000.05	999.45	119.18	0.50	18.00	0.013	6.92	7.45	4.79	1001.19	1000.59	1001.55	1000.95	0.14	3.79	0.14
7	202	6	0.75	0.37	0.28	0.37	5.00	12.59	5.00	3.49	3.49	1001.10	1000.25	170.14	0.50	15.00	0.013	3.49	4.56	3.60	1001.91	1001.37	1002.18	1001.51	0.14	3.37	0.13

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DRAWN BY:	JGD	CHECK BY:	PJJ
LICENSE NO.	PE-2009030032	DATE:	04/07/22
FIELD BOOK:	FOR REVIEW	JOB NUMBER:	21KC10060

REVISIONS			
NO.	DESCRIPTION	BY	DATE
0	INITIAL SUBMISSION	JGD	04/07/22
1	PER MODOT COMMENT	JGD	09/19/22
2	PER MODOT COMMENT	JGD	11/11/22
3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23

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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

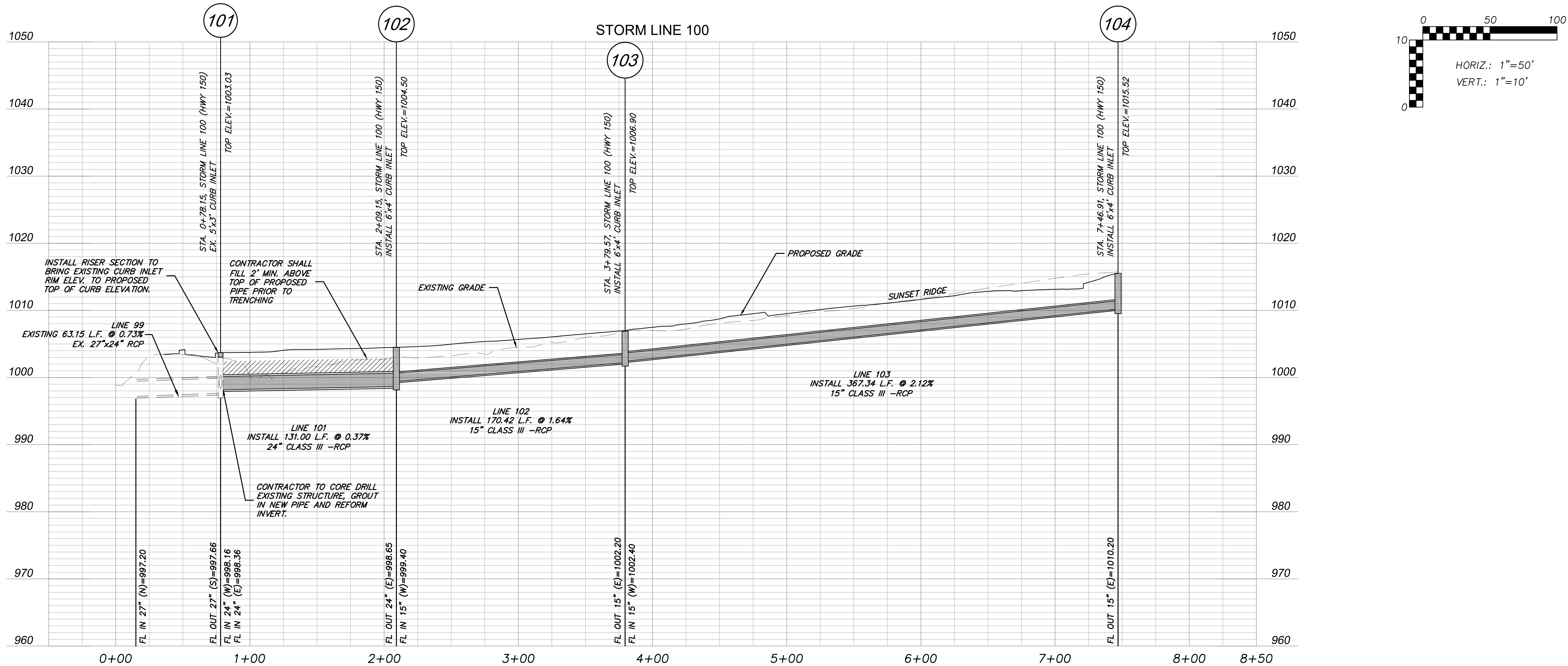
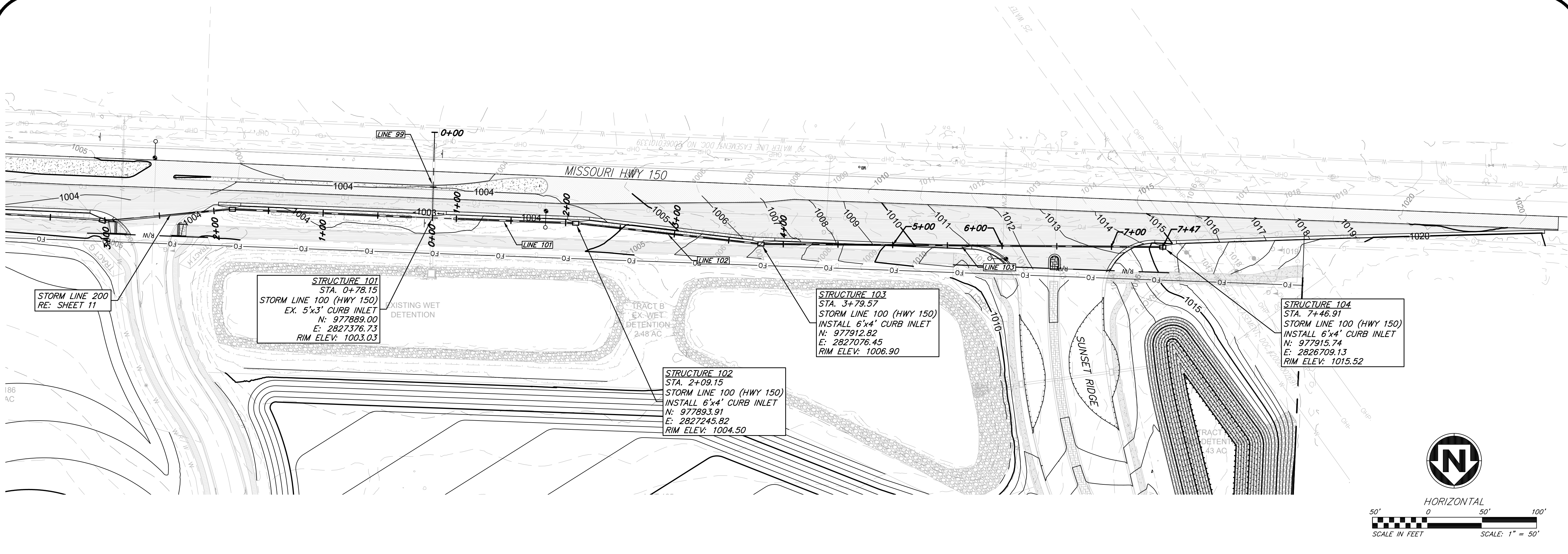
DRAINAGE MAP

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

PATRICK J. ROYCE
NUMBER
PE-2009030032
PROFESSIONAL ENGINEER
04/07/2023

SHEET NUMBER
9
9 OF 66

Apr 07, 2023 - 1:51pm Plotted By: jbold G:\Shared drives\KC10 - Land Development\Projects\2021\21KC10060-Cobey Creek Residential\01 CIVL\03-DWG Sheet\ModOT 150 HWY WIDENING\21KC10060-CIVL-STW-P&P.dwg Layout: STORM PLAN & PROFILE



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LICENSE NO.	PE-2009030032	DATE:	04/07/22
FIELD BOOK:	FOR REVIEW	DATE:	04/07/22
JOB NUMBER:	21KC10060	DATE:	04/07/22

NO.	DESCRIPTION	BY	DATE
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2	PER MODOT COMMENT	JGD	11/11/22
3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23

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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

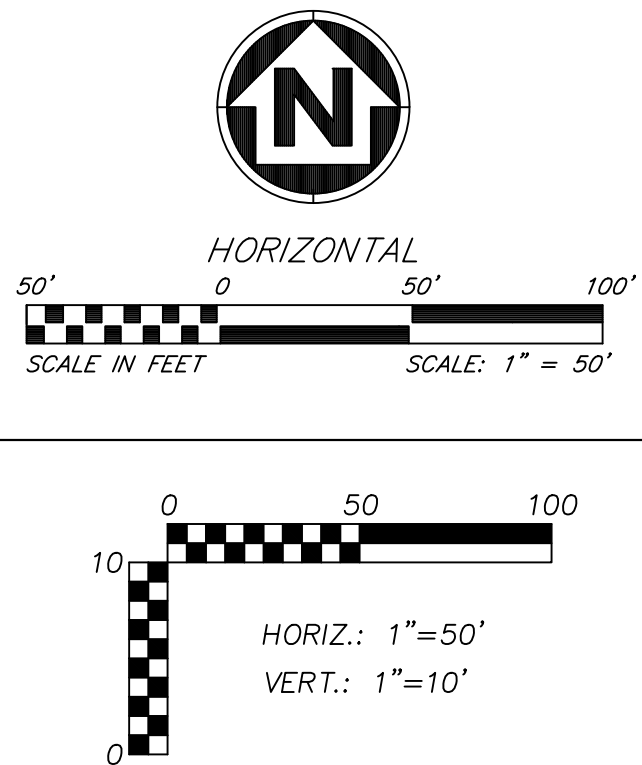
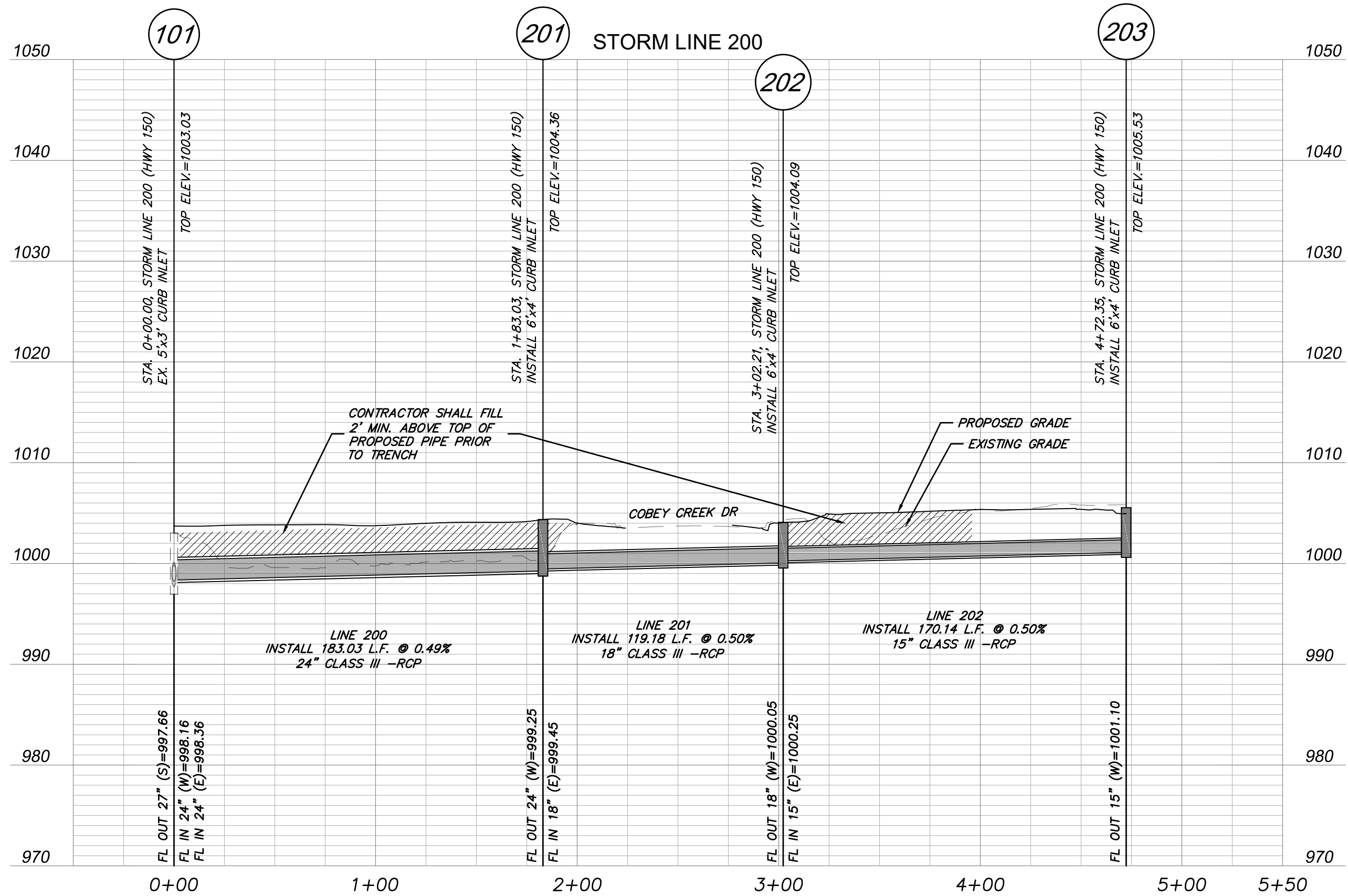
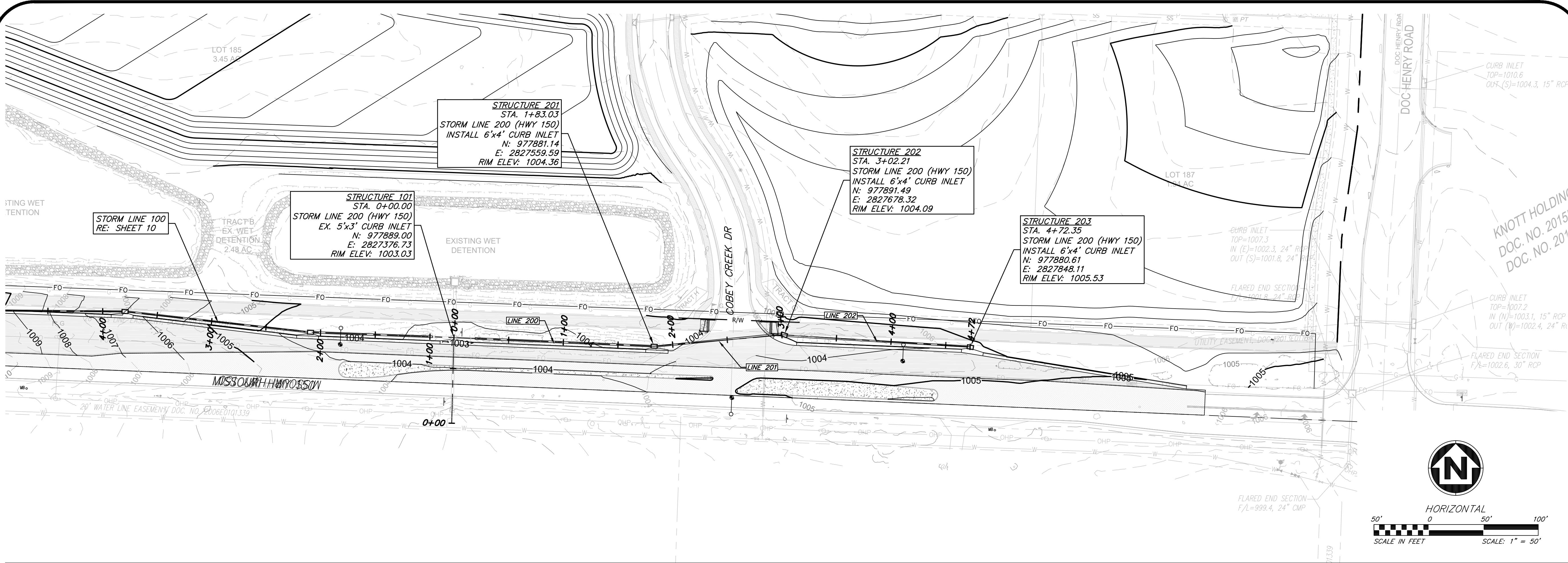
STORM P&P-1

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PROFESSIONAL ENGINEER
PATRICK J. ROYCE
NUMBER PE-2009030032
04/07/2023

SHEET NUMBER
10
10 OF 66

Apr 07, 2023 - 1:52pm Plotted By: jheid G:\Shared drives\KC10 - Land Development\Projects\2021\21KC10060 Cobey Creek Residential\01 CIVIL\03-DWG\Sheet\ModOT 150 HWY WIDENING\21KC10060-CIV-STM-P&P.dwg Layout: STORM PLAN & PROFILE - 2



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4	PER MODOT COMMENT	JGD	04/07/23
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DATE:		04/07/22	
FIELD BOOK:		FOR REVIEW	
JOB NUMBER:		21KC10060	

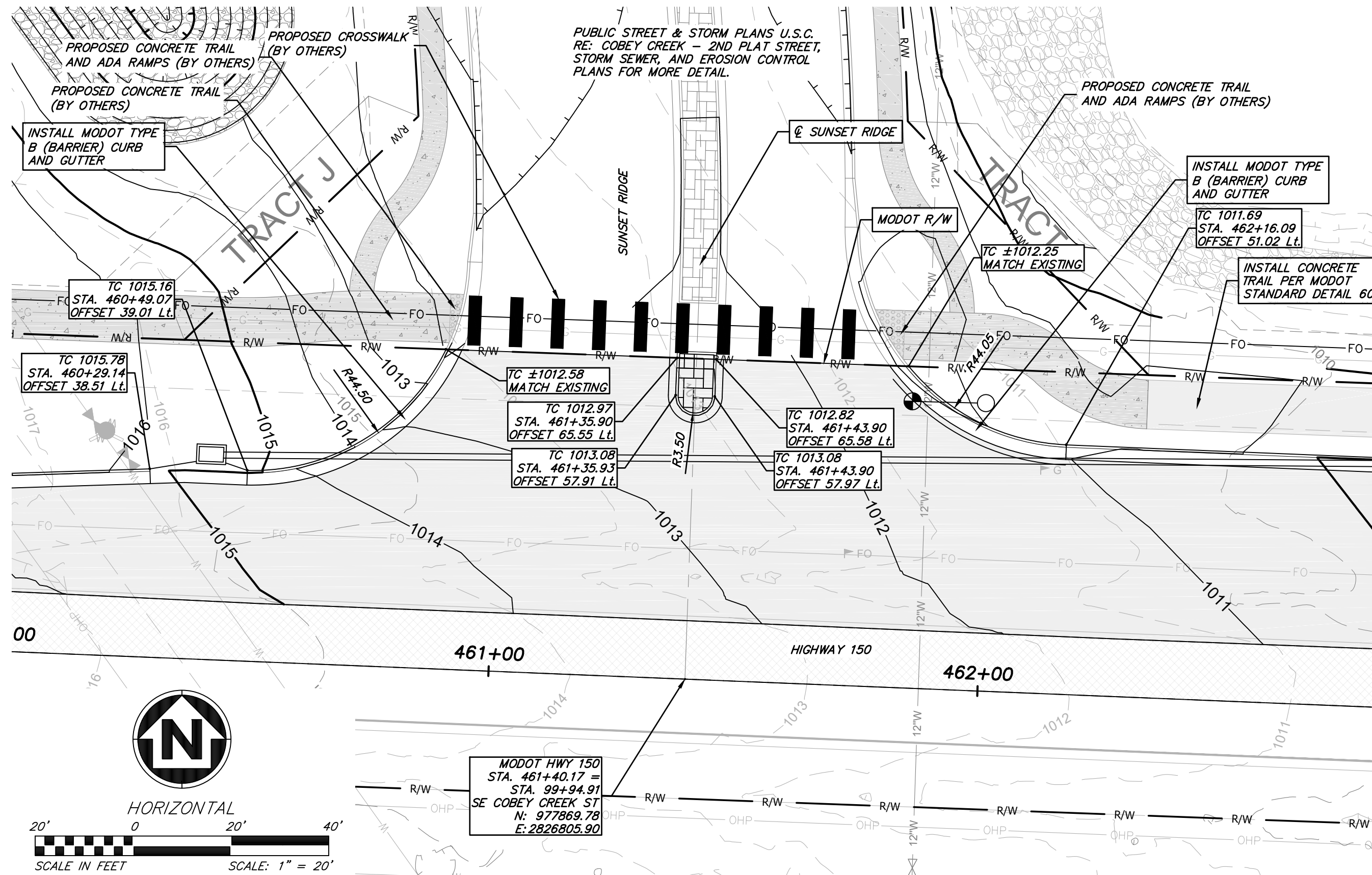
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

STORM P&P-2

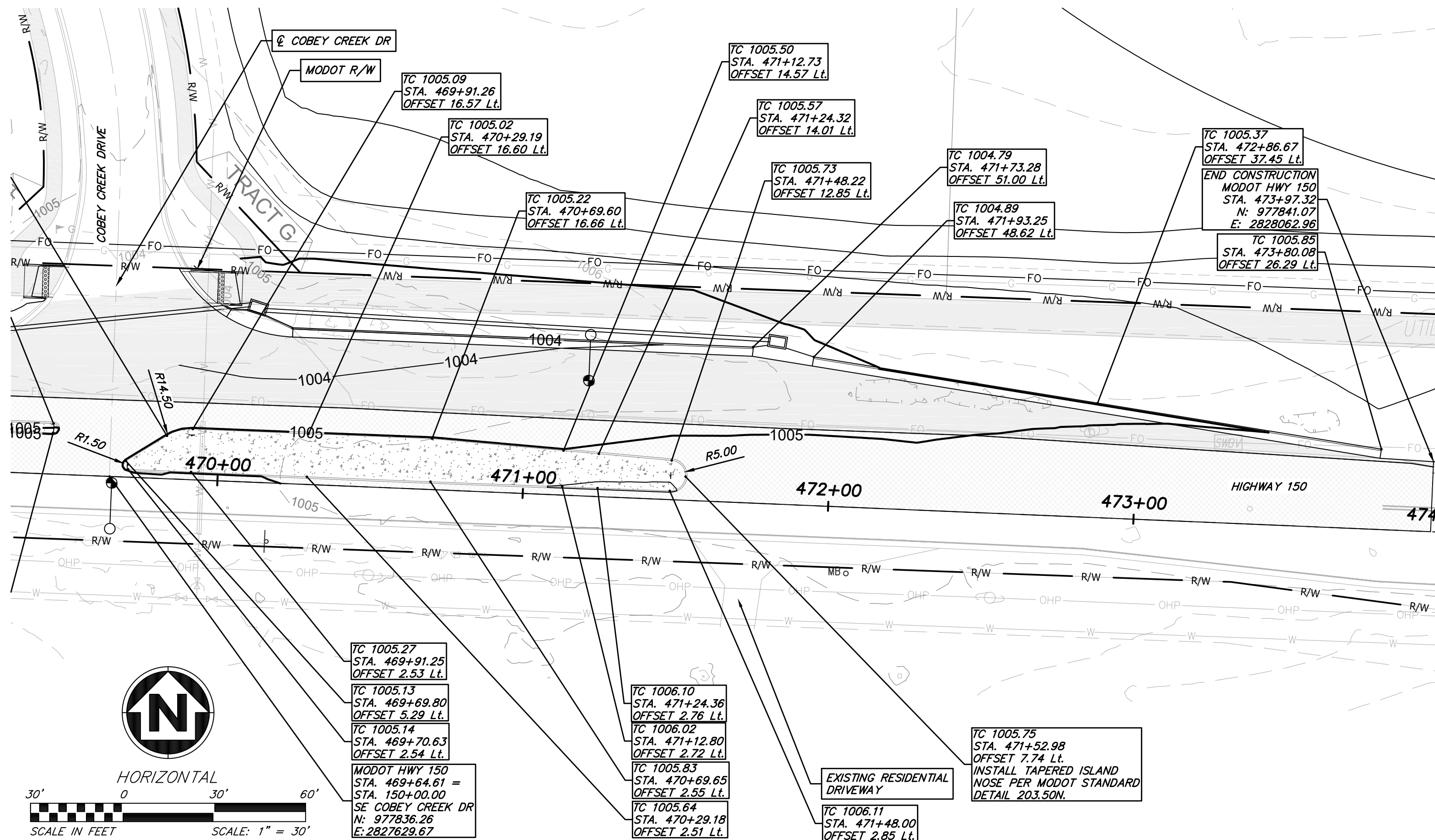
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LEE'S SUMMIT, JACKSON COUNTY, MO



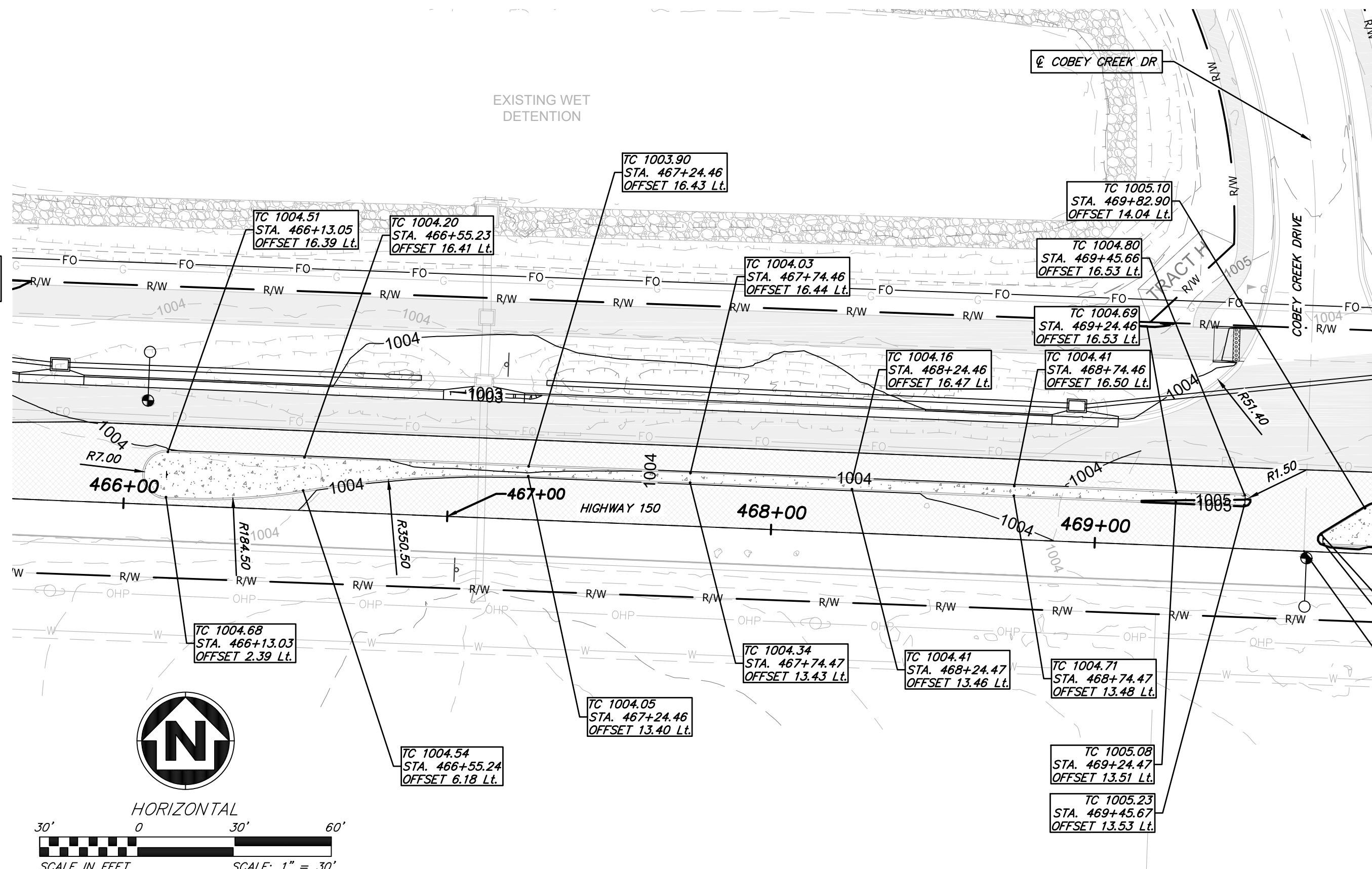
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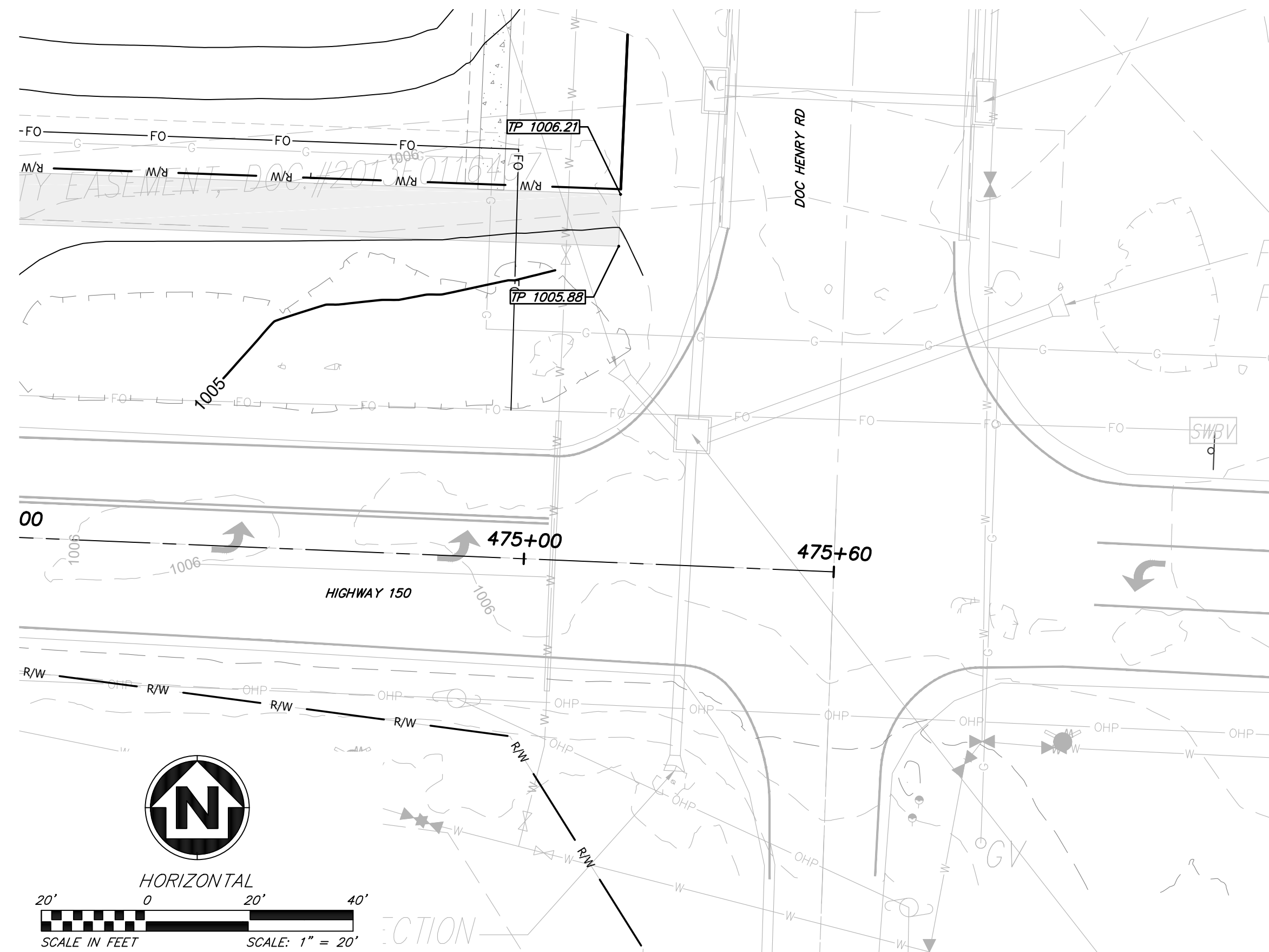
INTERSECTION DETAILS (MODOT HWY 150 & SUNSET RIDGE)



MEDIAN DETAILS (STA. 469+63.78 THRU 473+63.31)



MEDIAN DETAILS (STA. 466+05.53 THRU STA. 469+47.60)



INTERSECTION DETAILS (MODOT HWY 150 & DOC HENRY ROAD)

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DATE:		04/07/22	
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JOB NUMBER:		21KC10060	

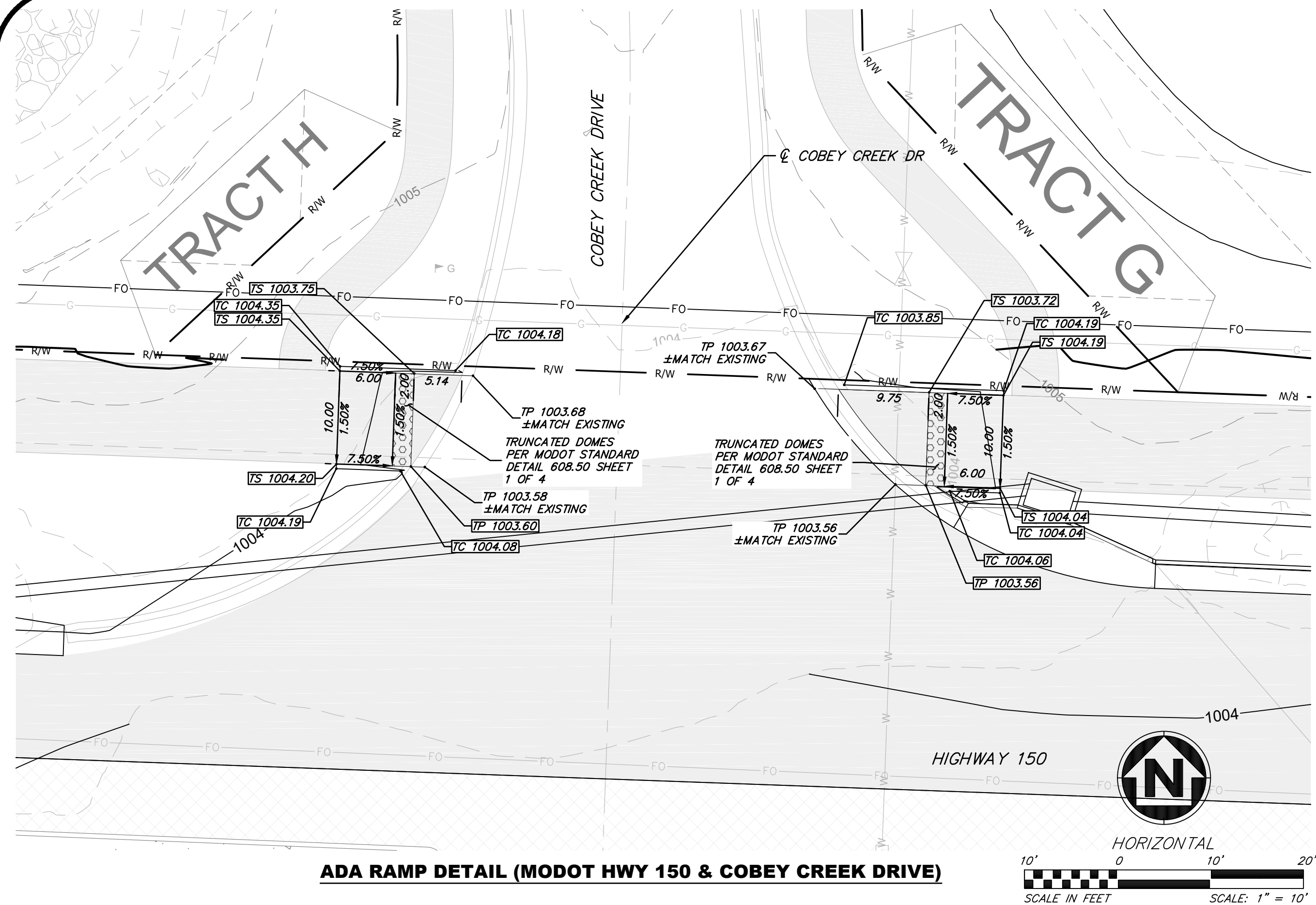
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

**INTERSECTION
DETAILS**

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER
PE-2009030032
04/07/2023

SHEET NUMBER
12
12 OF 66



LEGEND

- | | |
|--|---------------------------------------|
| | <i>TOP OF PAVEMENT SPOT ELEVATION</i> |
| | <i>TOP OF SIDEWALK SPOT ELEVATION</i> |
| | <i>TOP OF CURB SPOT ELEVATION</i> |

REVISIONS				DRAWING INFO.			
NO.	DESCRIPTION	BY	DATE	DRAWN BY:			
0	INITIAL SUBMISSION	JGD	04/07/22		JGD		
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3	PER MODOT COMMENT	JGD	01/19/23	DATE:	04/07/22		
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				JOB NUMBER:	21KC10060		
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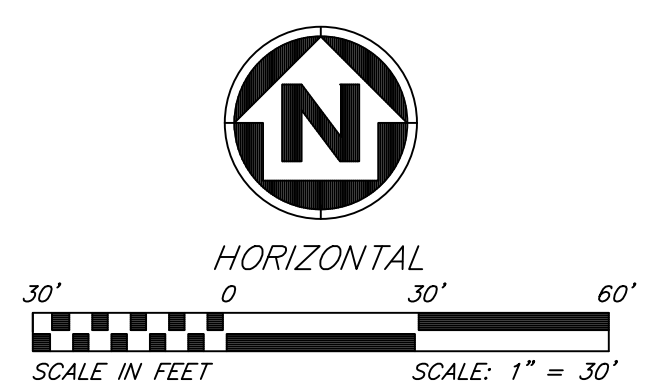
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

INTERSECTION
DETAILS

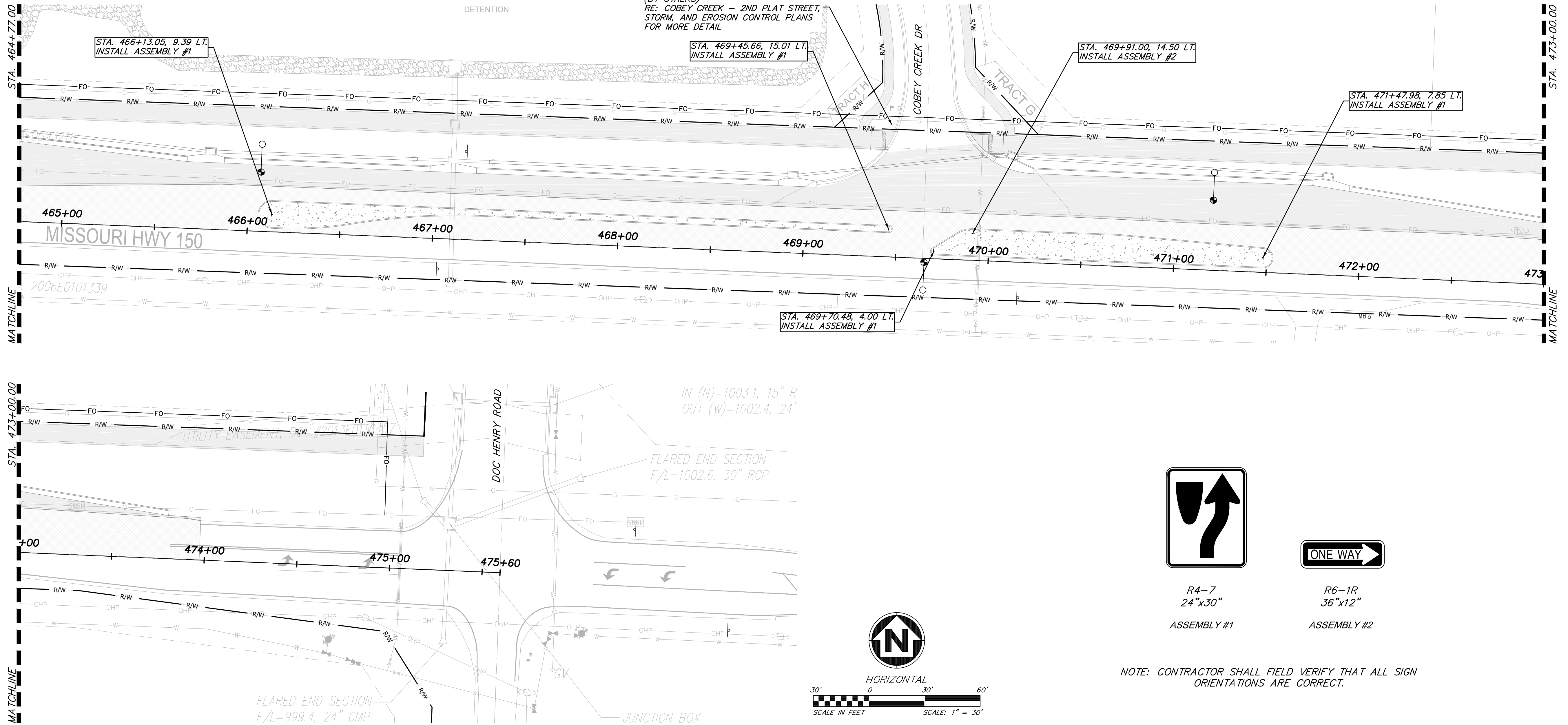
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER
13
13 OF 66



SUMMIT HOMES COBEY CREEK - 2ND PLAT MODOT STATE HWY 150 WIDENING		STRIPING PLAN	
		S 29, T47N, R31W LEE'S SUMMIT, JACKSON COUNTY, MO	
		04/07/2023	
		SHEET NUMBER 14 14 OF 66	



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1	PER MODOT COMMENT	JGD	01/19/22	PJJ	
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4	PER MODOT COMMENT	JGD	04/07/23	DATE:	04/07/22
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				JOB NUMBER:	21KC10060

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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

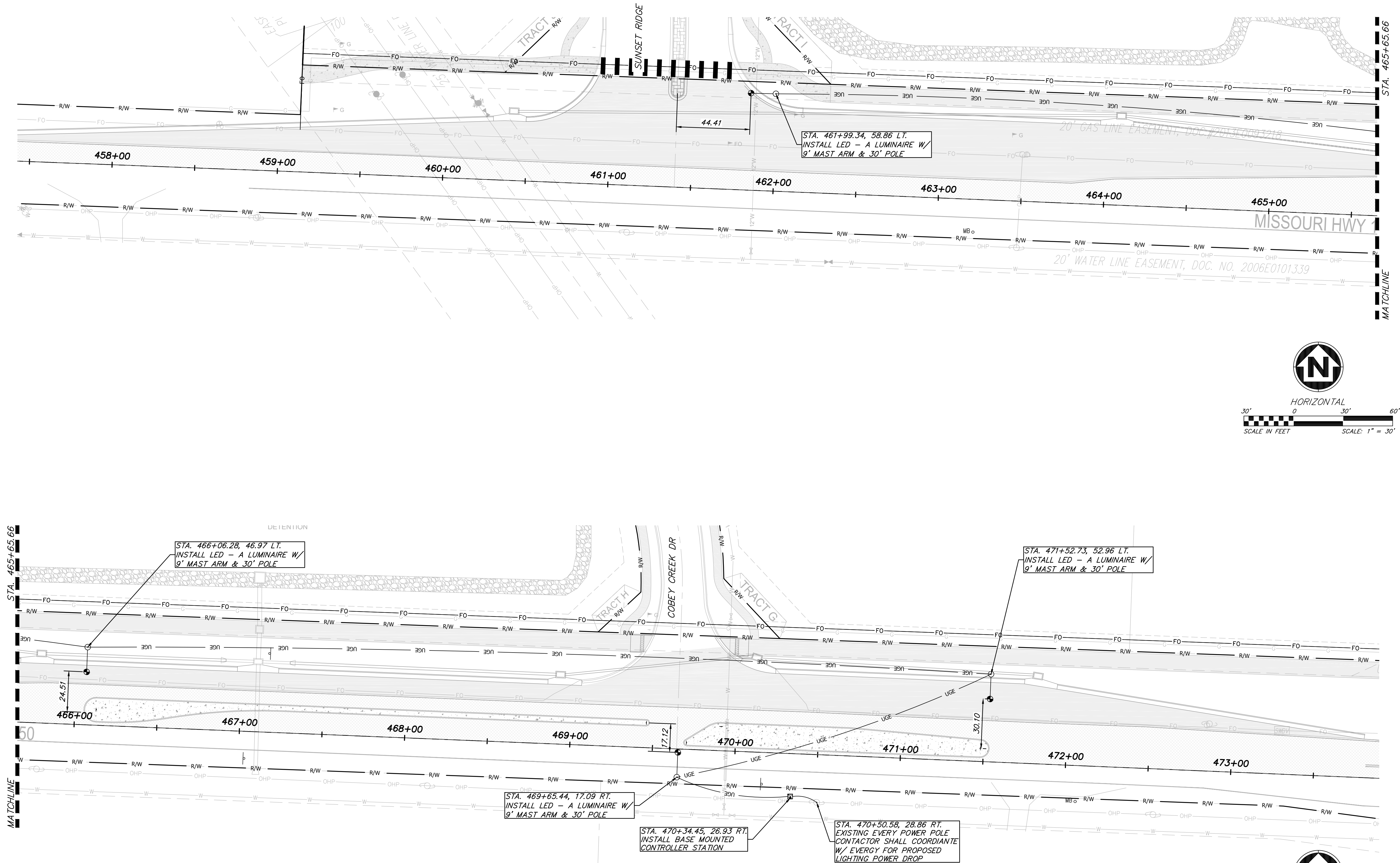
SIGNAGE PLAN

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

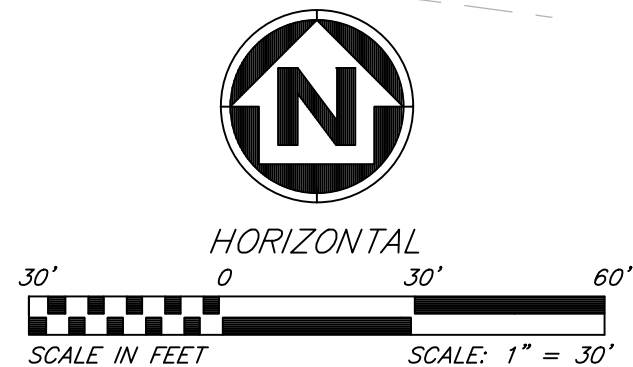
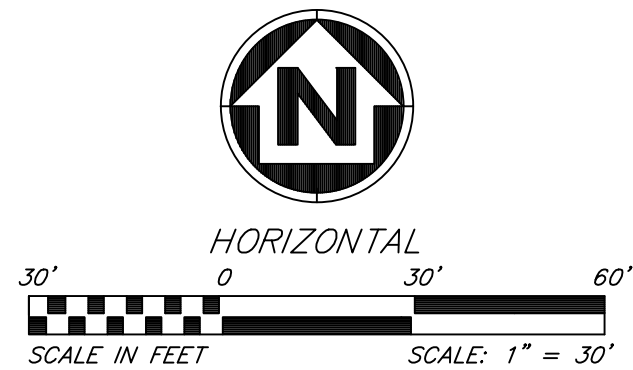


SHEET NUMBER
15
15 OF 66

Apr 10, 2023 - 1:06pm Plotted By: jldd G:\Shared drives\KC10 - Land Development\Projects\2021\21KC10060 Cobey Creek Residents\01 CIVL\03-DWG\Sheet\Modot 150 HWY WIDENING\21KC10060-CIVL-STRP.dwg Layout: LIGHTING PLAN



- NOTES:
- 1) CONTRACTOR TO PROVIDE LIGHTING CIRCUIT DESIGN & COORDINATE WITH EVERGY FOR METER AND METER PEDESTAL LOCATION.
 - 2) PROPOSED UNDERGROUND ELECTRIC IS SCHEMATIC AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATION WITH MODOT AND EVERGY TO CONNECT THE PROPOSED LIGHTING CIRCUIT AS DESIGNED.
 - 3) ALL PROPOSED ROADWAY UTILITY CROSSINGS SHALL BE BORED. OPEN CUTTING OF HIGHWAY 150 IS NOT ALLOWED.
 - 4) DESIGNERS, FABRICATORS, AND CONTRACTORS SHALL PROVIDE BREAKAWAY CERTIFICATIONS WHERE APPROPRIATE, OR CERTIFICATIONS SHALL BE PROVIDED AT THE REQUEST OF THE MISSOURI DEPARTMENT OF TRANSPORTATION. (MODOT)



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NO.	DESCRIPTION	BY	DATE
0	INITIAL SUBMISSION	JGD	04/07/22
1	PER MODOT COMMENT	JGD	09/13/22
2	PER MODOT COMMENT	JGD	11/11/22
3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23
		DRAWN BY:	JGD
		CHECK BY:	PJJ
		LICENSE NO.	PE-2009030032
		DATE:	04/07/22
		FIELD BOOK:	FOR REVIEW
		JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

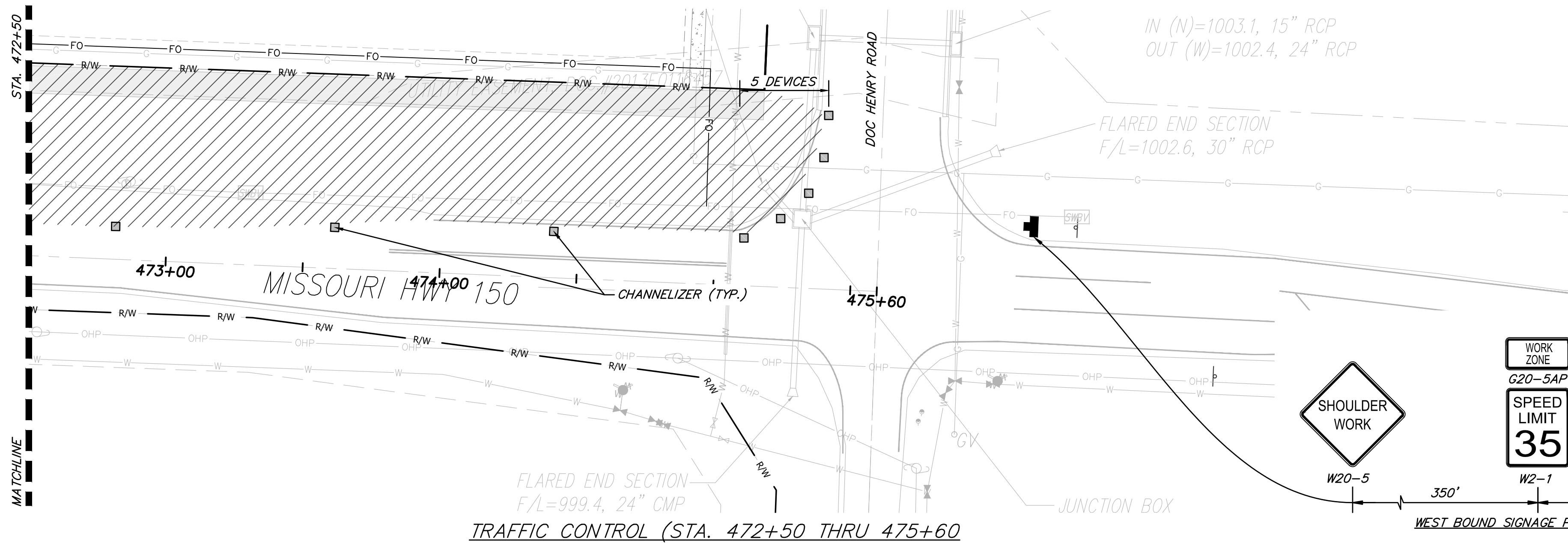
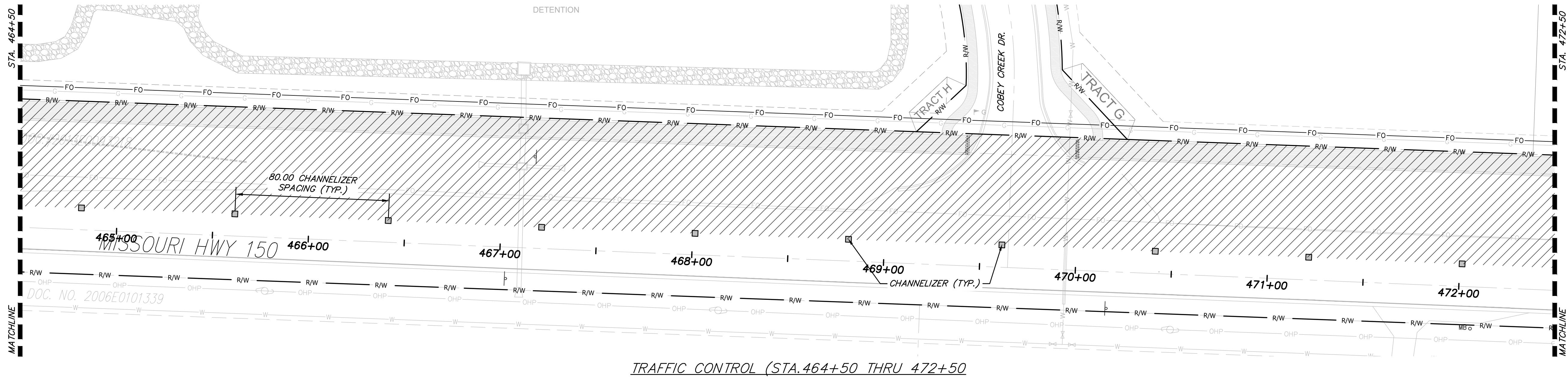
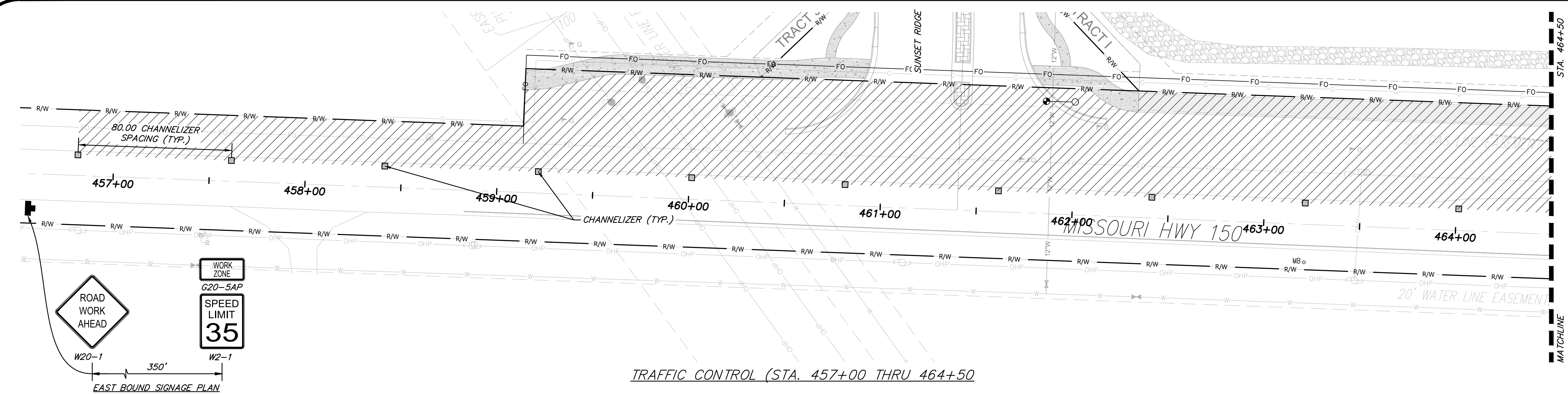
LIGHTING PLAN

S 29 T47N R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. JOYCE
NUMBER
PE-2009030032
04/10/2023

SHEET NUMBER
16
16 OF 66

Apr 07, 2023 - 1:58pm Plotted By: jfield G:\Shared drives\MO10 - Land Development\Projects\2021\21K10060 Cobey Creek Residential\01 CIVL\03-DWG\Sheet\Mod01 150 HWY WIDENING\21K10060-CIVL-TRC1.dwg Layout: TRAFFIC CONTROL-1

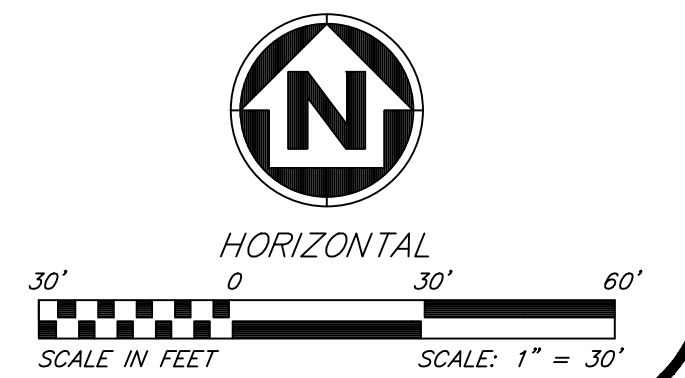
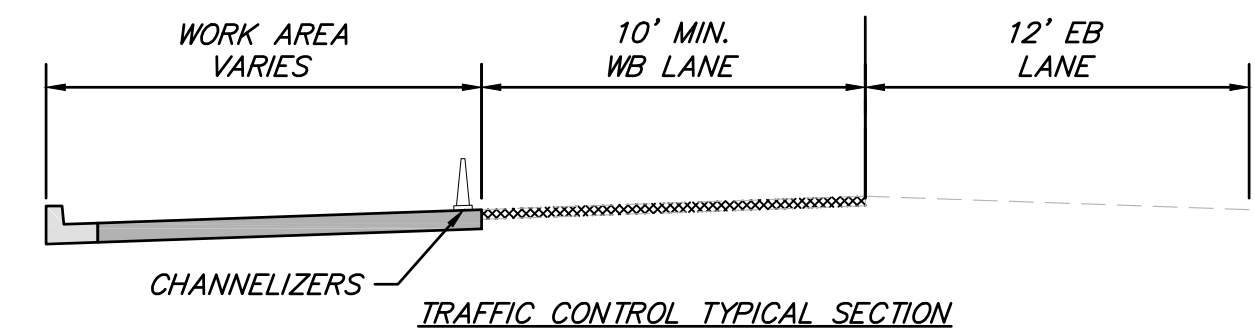


LEGEND:

- R/W EX./PRO. RIGHT-OF-WAY
- SIGN
- CHANNELIZER
- WORK AREA

GENERAL NOTES:

- REFER TO MDOT STANDARD DETAILS SECTION 616.10AX SHEETS 1-9 FOR TRAFFIC CONTROL DETAILS.
- ALL TRAFFIC CONTROL DEVICES SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE M.U.T.C.D. AND MDOT STANDARDS AND SPECIFICATIONS.
- TRAFFIC CONTROL SIGNS SHOWN HERE ARE A PROJECT MINIMUM, ACTUAL SIGNING WILL BE DICTATED BY CONTRACTOR PROJECT PHASING, SEE DETAILS PROVIDED FOR PROPER USE OF CONSTRUCTION SIGNAGE AND DEVICES.
- THE CONTRACTOR SHALL MOVE CHANNELIZING DEVICES DURING NON-WORKING HOURS EXCLUDING CHANNELIZING DEVICES REQUIRED FOR PROTECTION OF DROPOFF CONDITIONS.



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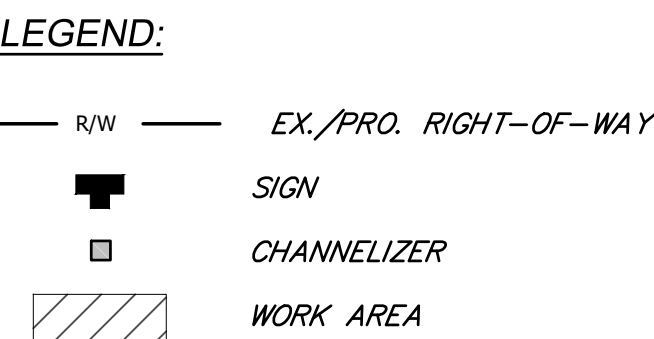
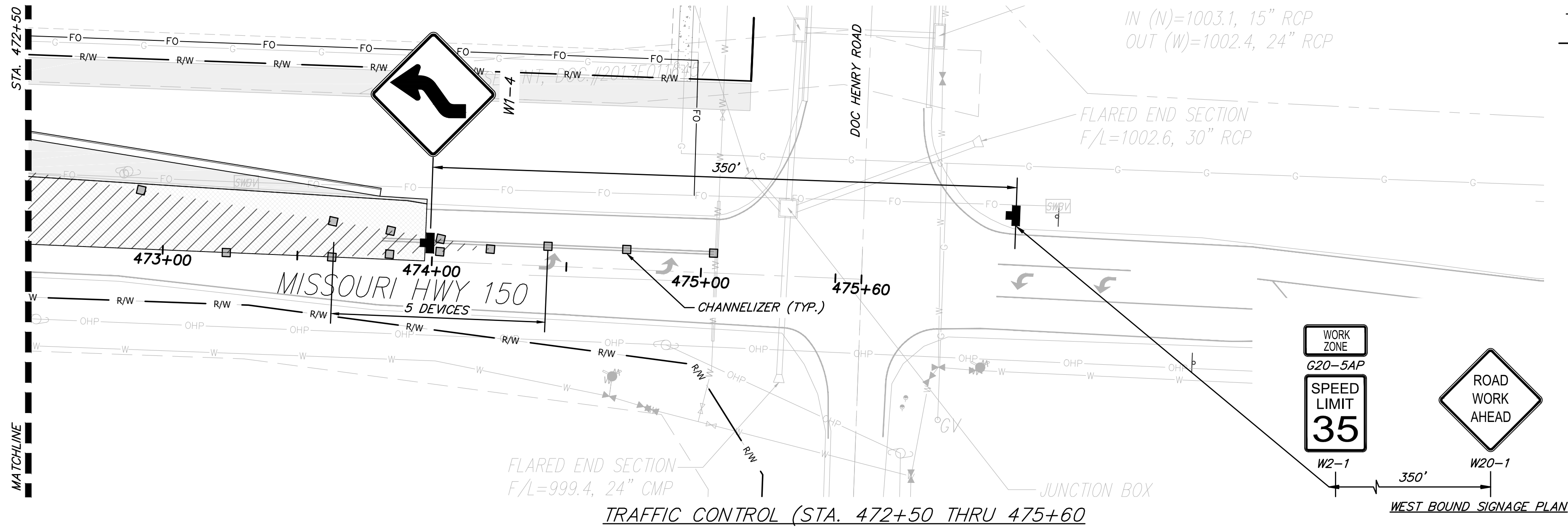
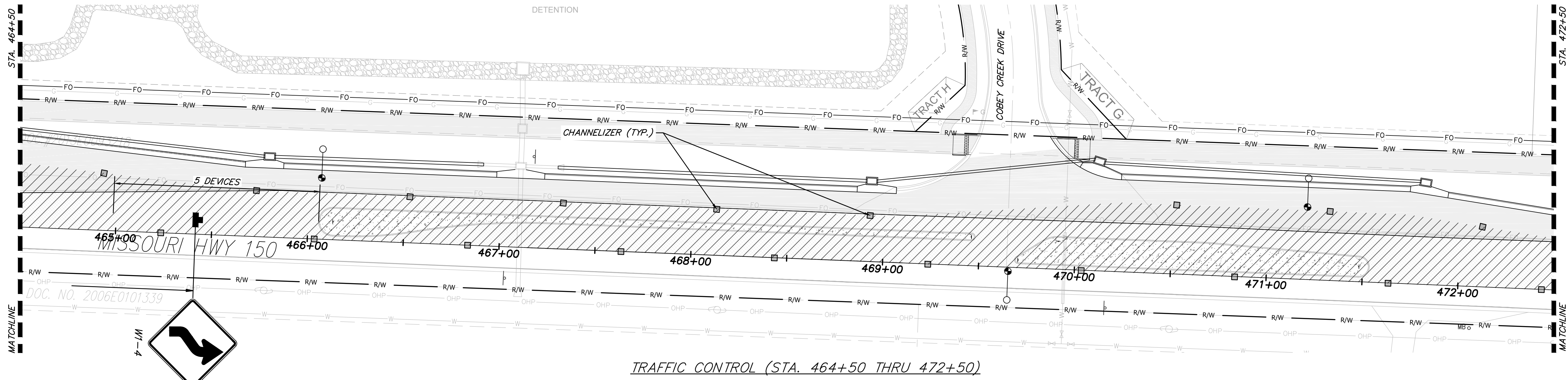
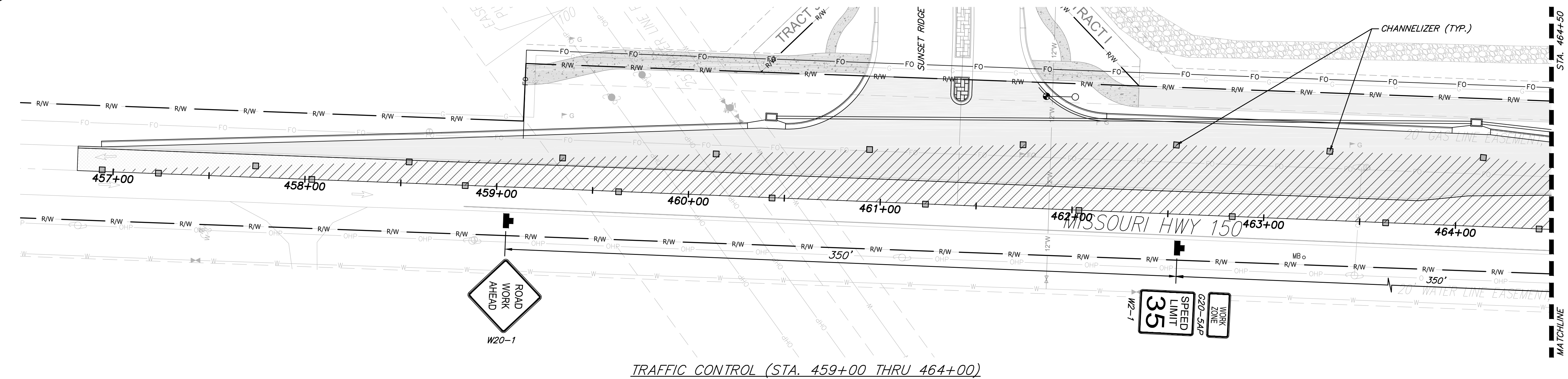
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NO.	DESCRIPTION	BY	DATE
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1	PER MODOT COMMENT	JGD	09/13/22
2	PER MODOT COMMENT	JGD	11/11/22
3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23
		FIELD BOOK:	FOR REVIEW
		JOB NUMBER:	21K10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING
TRAFFIC CONTROL-1
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

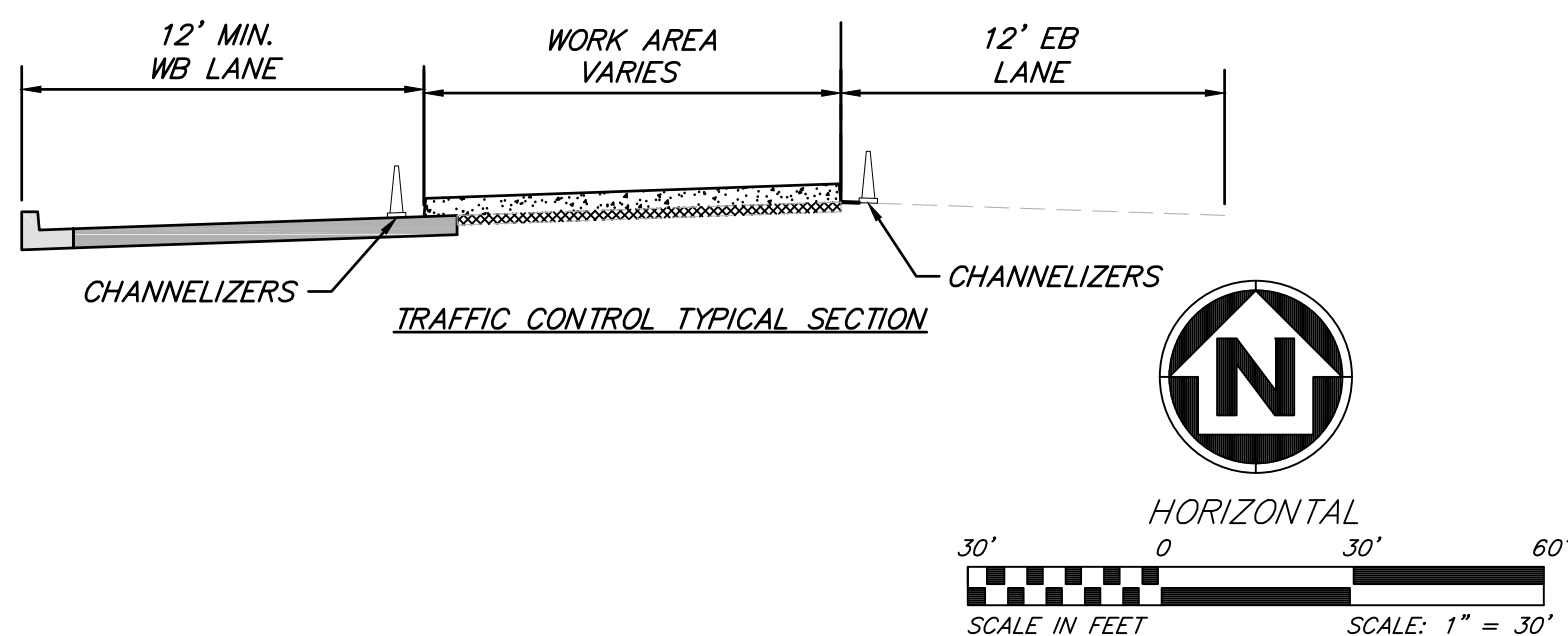


SHEET NUMBER
17
17 OF 66

Apr 07, 2023 - 1:59pm Plotted By: jfield G:\Shared drives\KC10 - Land Development\Projects\2021\21KC10060 Cobey Creek Residential\01 CIVL\03-DWG\Sheet\Mod01 150 HWY WIDENING\21KC10060-QW-TFC1.dwg Layout: TRAFFIC CONTROL-2



- GENERAL NOTES:**
1. REFER TO MDOT STANDARD DETAILS SECTION 616.10AX SHEETS 1-9 FOR TRAFFIC CONTROL DETAILS.
 2. ALL TRAFFIC CONTROL DEVICES SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE M.U.T.C.D. AND MDOT STANDARDS AND SPECIFICATIONS.
 3. TRAFFIC CONTROL SIGNS SHOWN HERE ARE A PROJECT MINIMUM, ACTUAL SIGNING WILL BE DICTATED BY CONTRACTOR PROJECT PHASING, SEE DETAILS PROVIDED FOR PROPER USE OF CONSTRUCTION SIGNAGE AND DEVICES.
 4. THE CONTRACTOR SHALL MOVE CHANNELIZING DEVICES DURING NON-WORKING HOURS EXCLUDING CHANNELIZING DEVICES REQUIRED FOR PROTECTION OF DROPOFF CONDITIONS.



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3	PER MDOT COMMENT	JGD	07/19/23
4	PER MDOT COMMENT	JGD	04/07/23
		FOR REVIEW	04/07/22
		JOB NUMBER:	21KC10060

SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

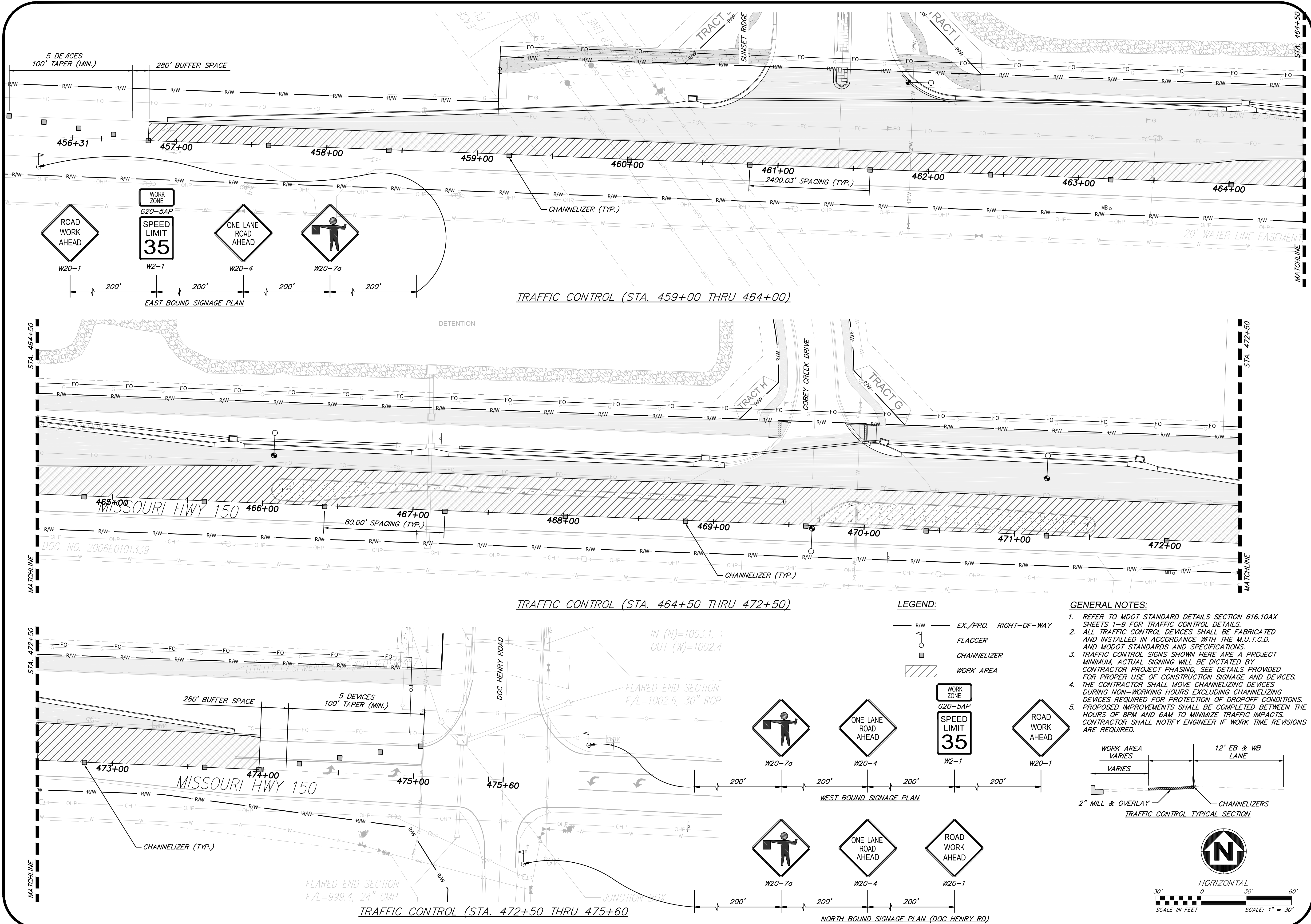
TRAFFIC CONTROL-2

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PROFESSIONAL ENGINEER
PATRICK J. ROYCE
NUMBER PE-2009030032
04/07/2023

SHEET NUMBER
18
18 OF 66

Apr 07, 2023 - 1:59pm Plotted By: jfield G:\Shared drives\KC10 - Land Development\Projects\2021\21KC10060 Cobby Creek Residential 01 CIVL 103-DWG Sheet ModOT 150 HWY WIDENING\21KC10060-01V-TFC1.dwg Layout: TRAFFIC CONTROL-3



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SUMMIT HOMES
COBBY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

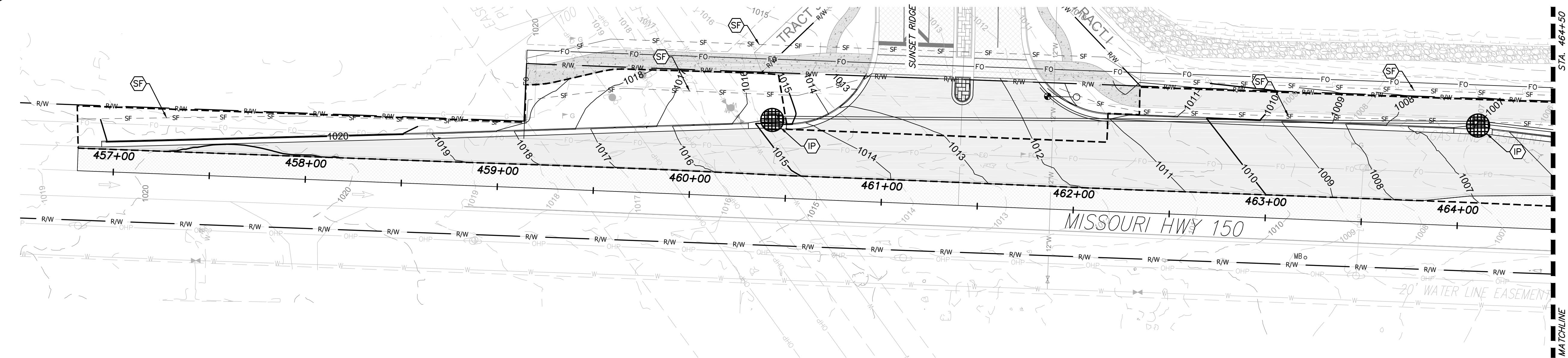
TRAFFIC CONTROL-3

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

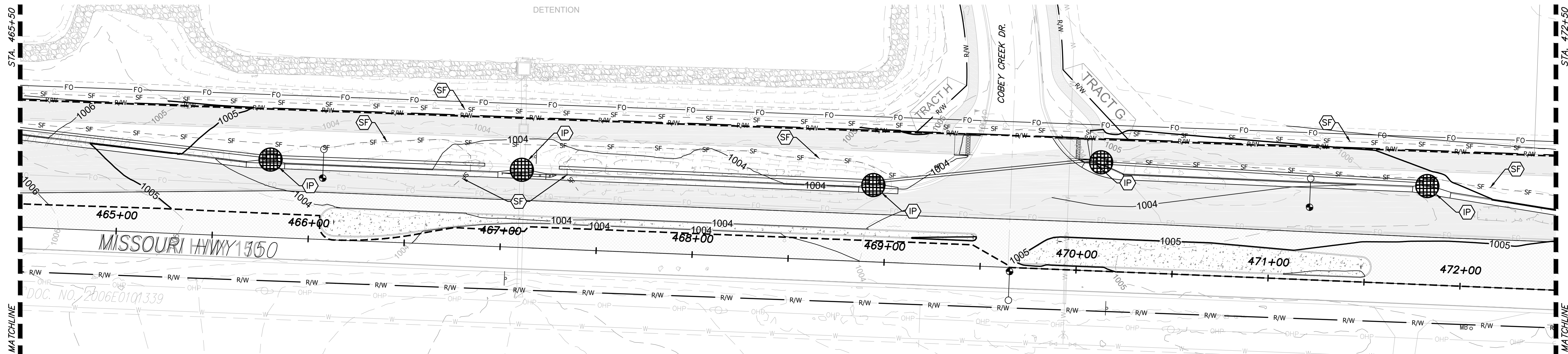
STATE OF MISSOURI
PATRICK J. ROYCE
PROFESSIONAL ENGINEER
NUMBER PE-2009030032
04/07/2023

SHEET NUMBER
19
19 OF 66

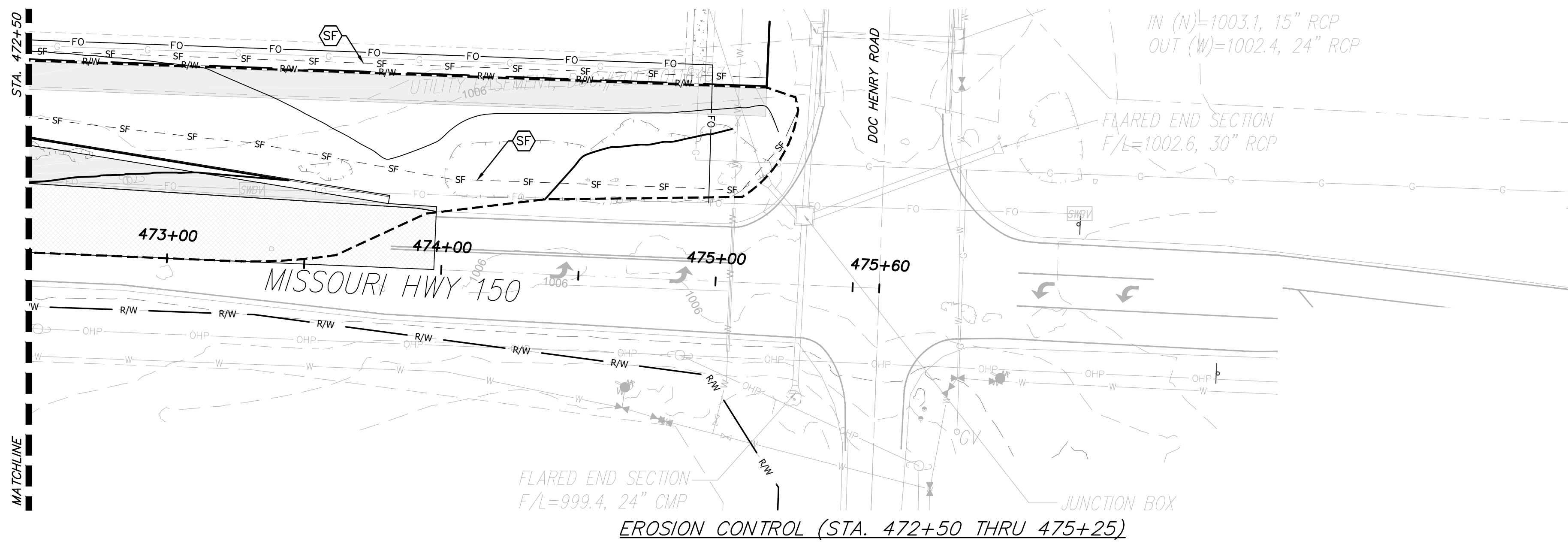
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EROSION CONTROL (STA. 456+70 THRU 464+50)



EROSION CONTROL (STA. 464+50 THRU 472+50)

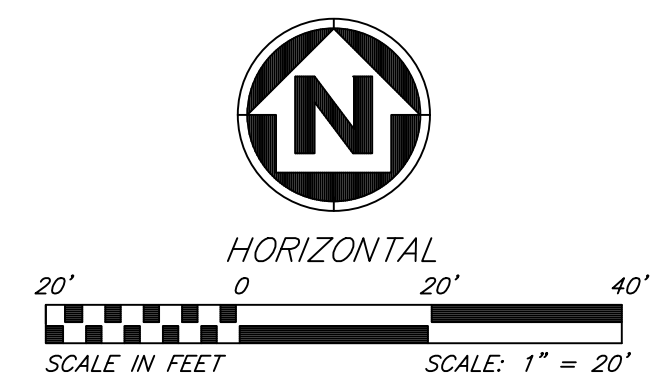


EROSION CONTROL (STA. 472+50 THRU 475+25)

LEGEND:

- 980 — PROPOSED GRADE 5' CONTOUR
- 980 — PROPOSED GRADE 1' CONTOUR
- - 980 - - EXISTING GRADE 5' CONTOUR
- - 980 - - EXISTING GRADE 1' CONTOUR
- - - - - LIMITS OF DISTURBANCE (2.30 ACRES)
- - SF - - SILT FENCE
- IP ● INLET PROTECTION

** EROSION DETAILS LISTED ABOVE CAN BE LOCATED BY ABBREVIATION ON SHEETS 49, 50 AND 51.



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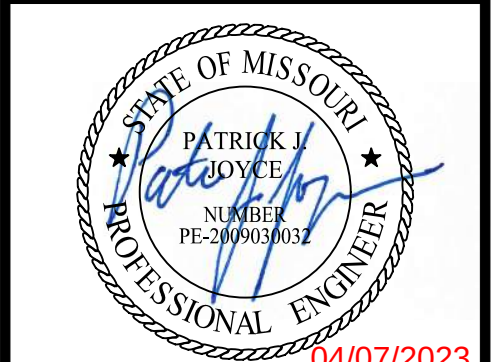
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3	PER MODOT COMMENT	JGD	07/19/23
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		JOB NUMBER:	21KC10060
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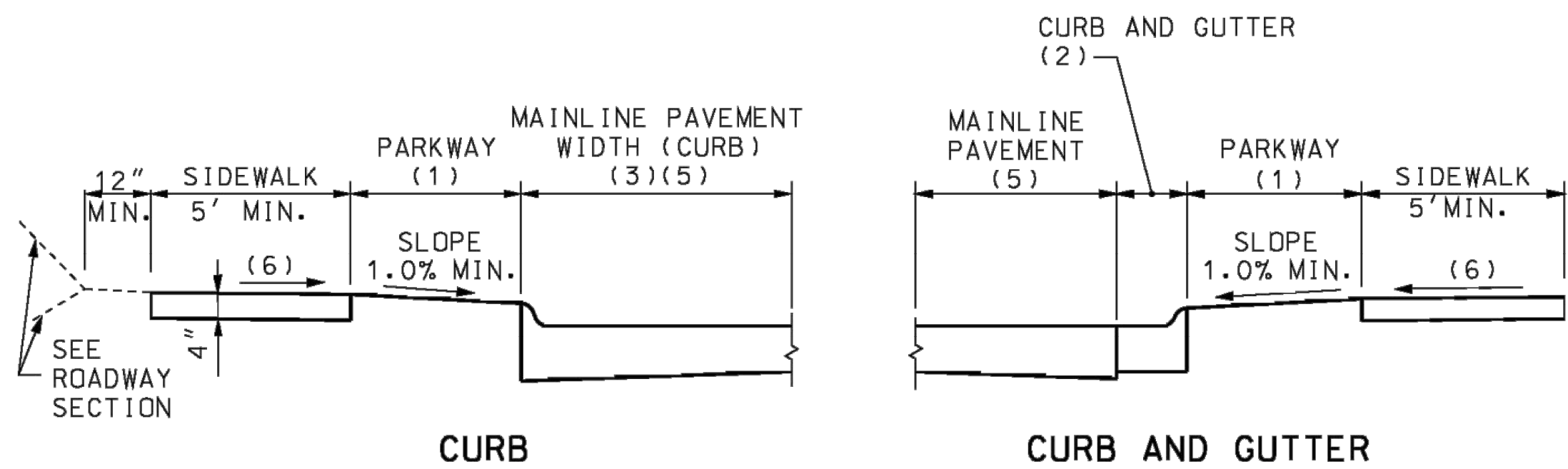
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

EROSION CONTROL

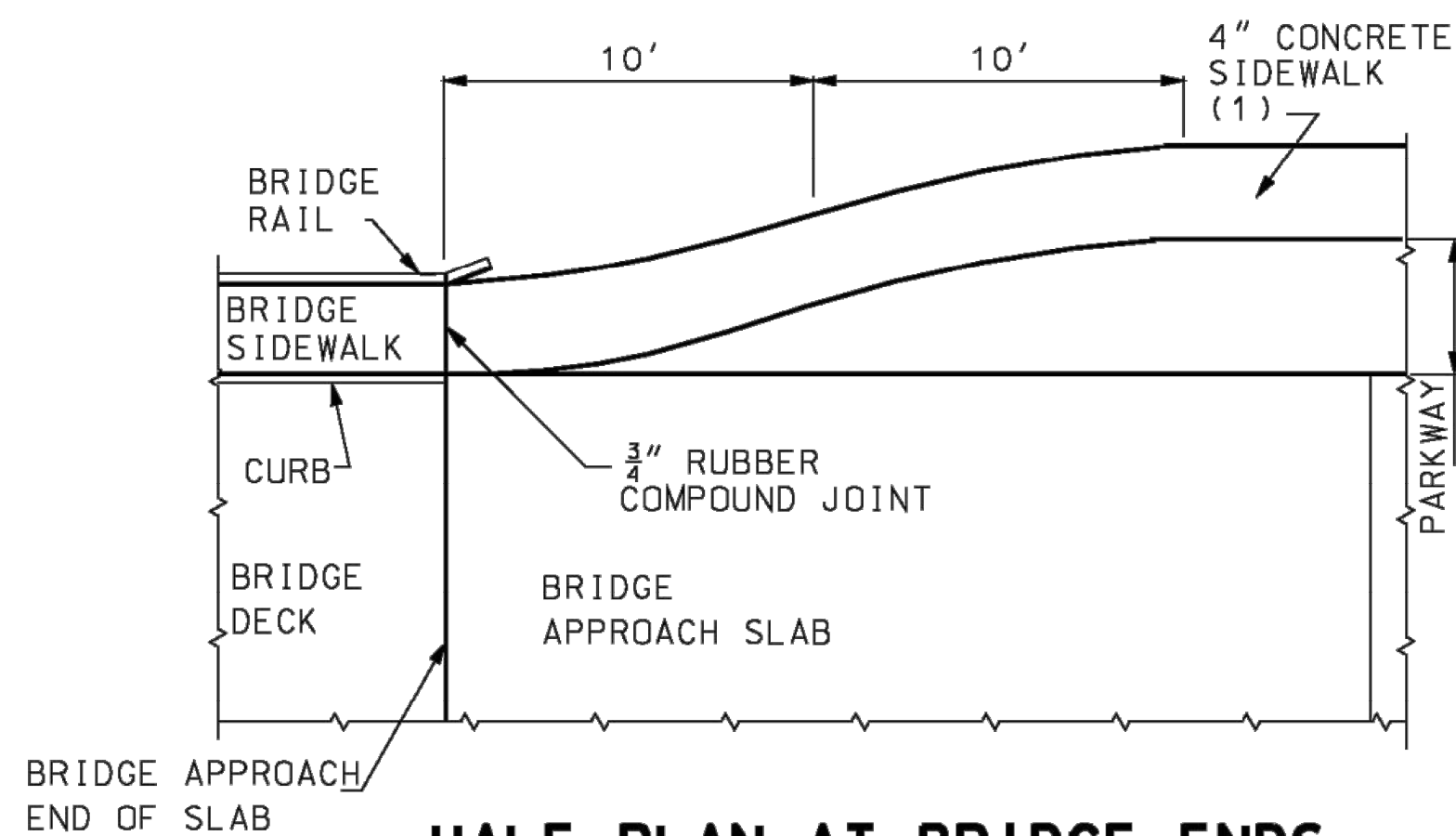
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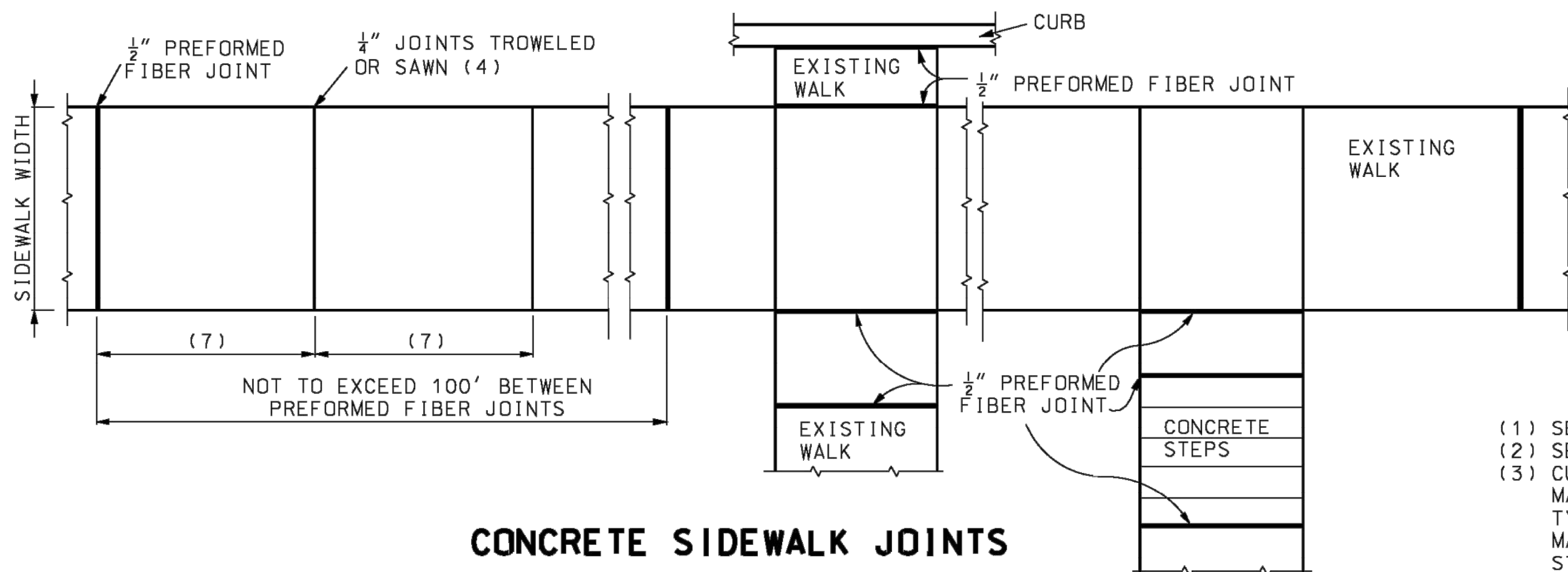
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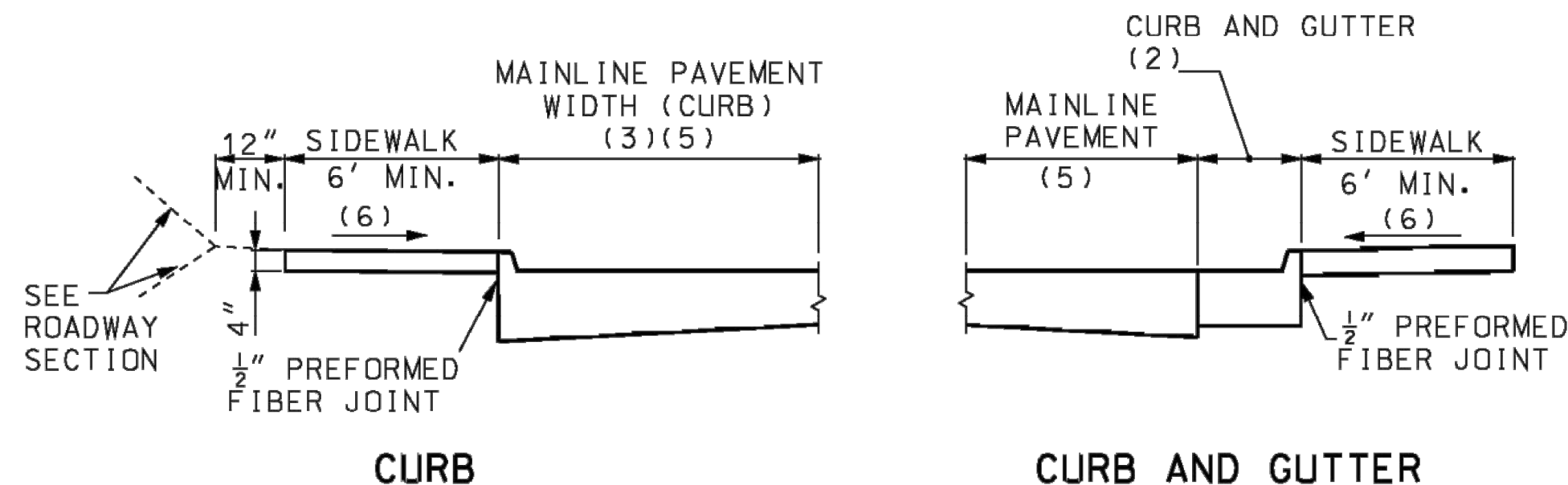
TYPICAL SIDEWALK WITH PARKWAY 2' OR MORE



HALF PLAN AT BRIDGE ENDS



CONCRETE SIDEWALK JOINTS



TYPICAL SIDEWALK WITH NO PARKWAY

GENERAL NOTES:

ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT - GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY. EXCEPTIONS MUST BE APPROVED BY THE ENGINEER. ALL OTHER AREAS OF NON-COMPLIANCE SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE.

THE SURFACES OF PEDESTRIAN ACCESS ROUTES AND ELEMENTS, AND SPACES REQUIRED TO CONNECT TO PEDESTRIAN ACCESS ROUTES, SHALL BE FIRM, STABLE, SLIP RESISTANT, AND SHALL NOT POND WATER.

WHERE SIDEWALKS ARE LESS THAN 5 FT., 5 FT. X 5 FT. PASSING SPACES EVERY 200 FT. SHALL BE PROVIDED AND ARE PERMITTED TO OVERLAP PEDESTRIAN ACCESS ROUTES.

THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE THROUGH ENTRANCES, ALLEYS, AND SIDEROAD CONNECTIONS WITH STOP OR YIELD CONTROL SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 5.00% MAXIMUM.

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.

STORMWATER INLETS, SIGNS, POSTS, MANHOLE COVERS, PULL BOXES AND OTHER ACCESS LIDS SHOULD BE AVOIDED WITHIN THE SIDEWALK. IF SUCH A LOCATION IS NECESSARY, THE FEATURE MUST MEET ADA STANDARDS.

THE RUNNING GRADE OF A SIDEWALK SHALL NOT EXCEED 5.0% UNLESS IT IS MATCHING THE GRADE OF THE ADJACENT ROADWAY.

PEDESTRIAN ACCESS ROUTE SHALL CONTINUE ACROSS RESIDENTIAL AND COMMERCIAL ENTRANCES, ALLEYS, AND SIDEROAD CONNECTIONS.

- (1) SEE PLANS FOR WIDTH
- (2) SEE STANDARD 608.00
- (3) CURB TO BE MONOLITHIC WITH PCC MAINLINE PAVEMENT. CURB TO BE TYPE S WITH ASPHALT CONCRETE MAINLINE PAVEMENT. SEE STANDARD PLAN 609.00.
- (4) MIN. 1/2" DEPTH JOINT.
- (5) SEE TYPICAL PAVEMENT SECTION
- (6) SLOPE 1.0% (2.0% MAX.)
- (7) SPACING EQUAL TO WIDTH OF WALK



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CONCRETE SIDEWALK

DATE EFFECTIVE: 04/01/2015
DATE PREPARED: 2/20/2015

608.10P

SHEET NO.
1 OF 1



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SUMMIT HOMES
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MODOT STATE HWY 150 WIDENING

STANDARD DETAILS-1

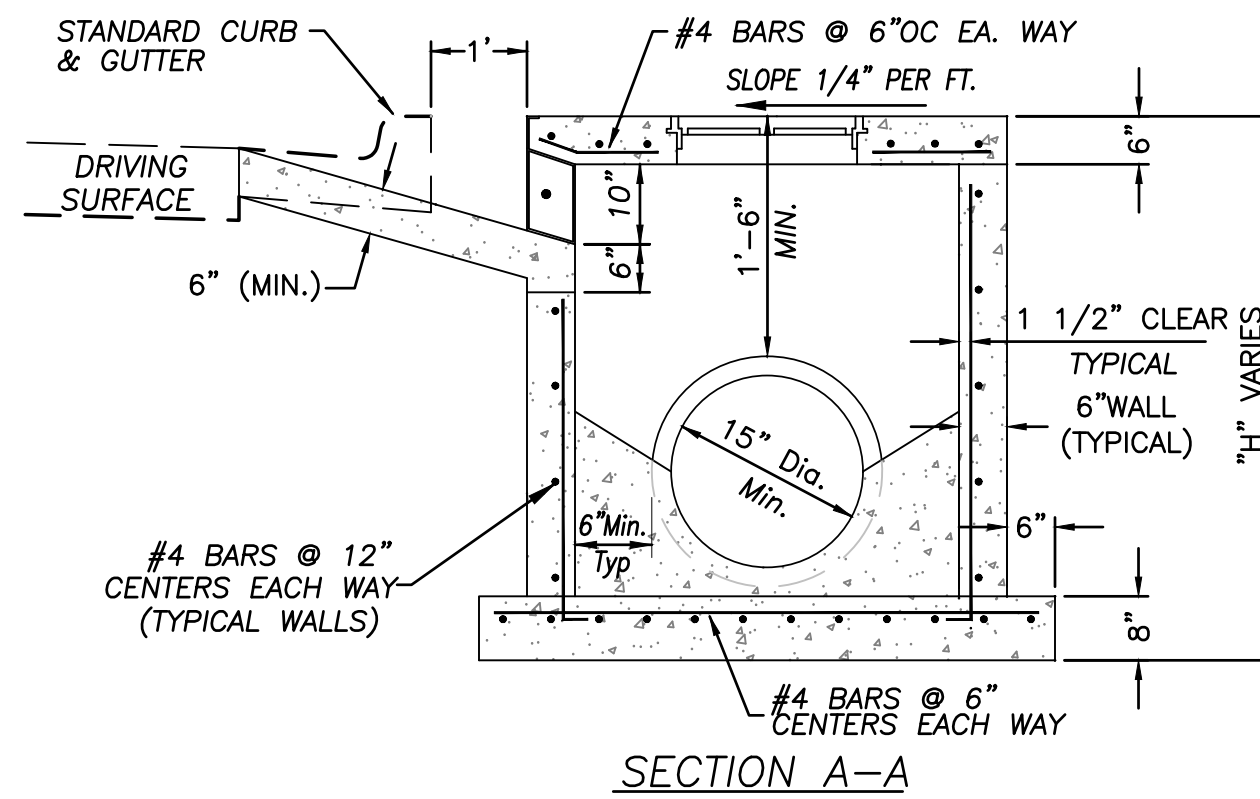
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LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

21
21 OF 66





NOT TO SCALE

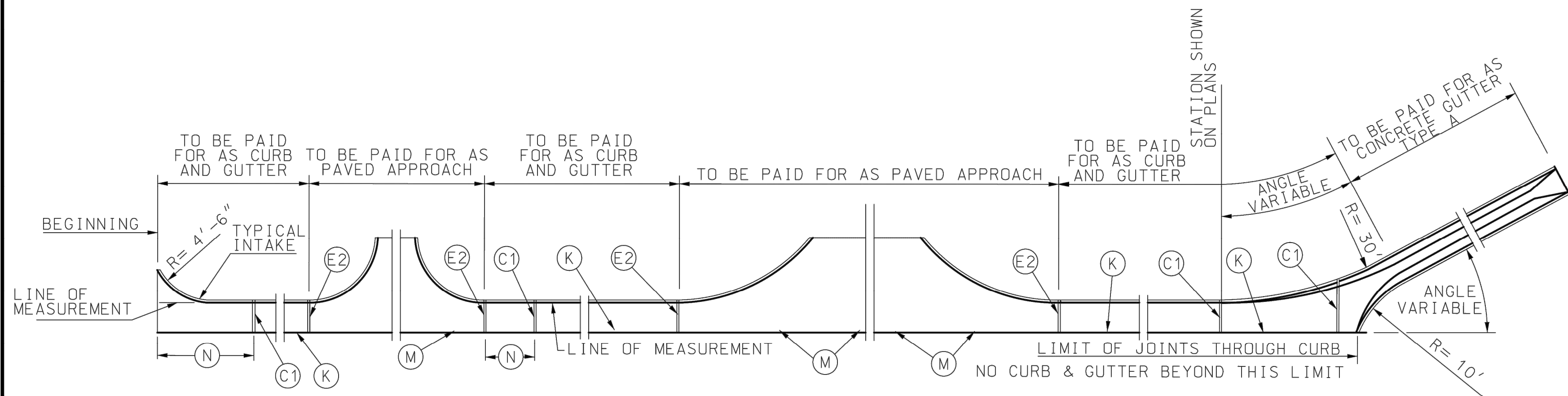
- SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING



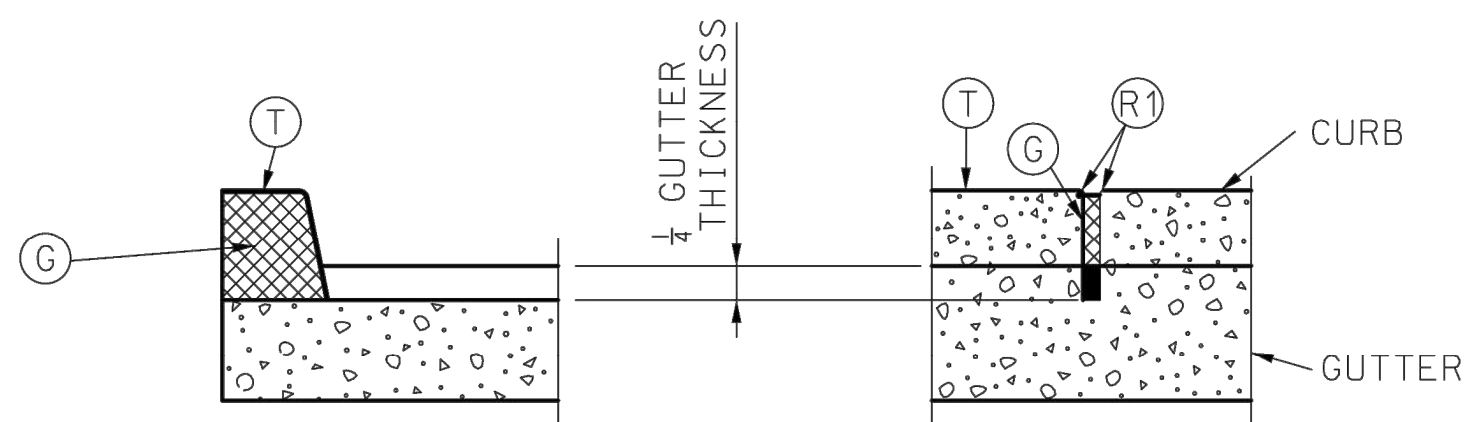
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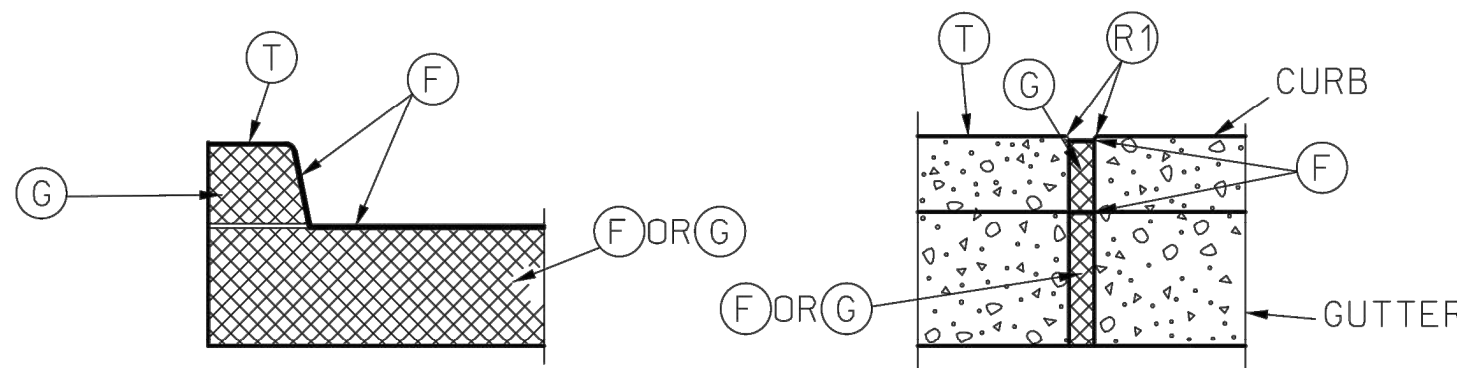
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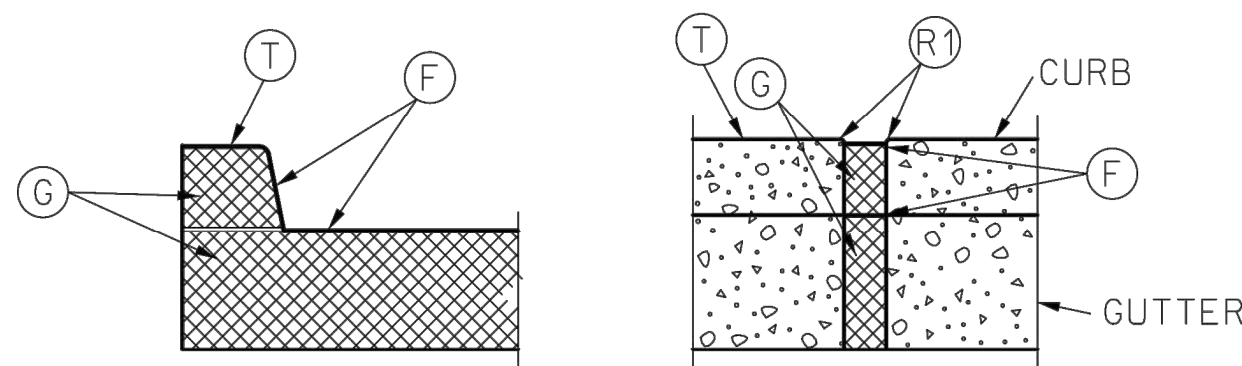
PLAN OF MEASUREMENT OF CURB & GUTTER AND JOINT PLAN



(C1) JOINT



(E2) JOINT



(E1) JOINT

- LEGEND
- (C1) 1/8" MAXIMUM WIDTH TRANSVERSE CONTRACTION JOINT (PREFORMED OR SAWED).
 - (E1) 2" TRANSVERSE EXPANSION JOINT. (PREFORMED OR SAWED)
 - (E2) 1/2" TRANSVERSE EXPANSION JOINT. (PREFORMED OR SAWED)
 - (F) FILLER FOR JOINTS - HOT POURED.
 - (G) PREFORMED JOINT FILLER MATERIAL.
 - (K) TONGUE & GROOVE JOINT WITH TIE BAR - SEE DETAIL.
 - (M) TONGUE & GROOVE JOINT WITHOUT TIE BARS - SEE DETAIL.
 - (N) NOT LESS THAN 10' OR MORE THAN 30'.
 - (T) TOP OF CURB.
 - (R1) ROUND TO 1/4" RADIUS. (EXCEPT FOR SAWED JOINTS)

GENERAL NOTES:

A MINIMUM 4" TYPE 1 OR 5 AGGREGATE BASE SHALL BE PLACED BENEATH ALL CURB AND GUTTER SECTIONS AND INCLUDED WITHIN THE MAINLINE BASE PAY LIMITS.

WHEN CURBS ARE CONSTRUCTED DIRECTLY BENEATH GUARDRAIL, CURB HEIGHT SHALL BE 4 INCH BARRIER CURB, AS SHOWN ON STANDARD PLAN 606.00.

CURB, GUTTER AND CURB AND CUTTER CONSTRUCTED ALONG AND ATTACHED TO CONCRETE PAVEMENT OR BASE SHALL HAVE:

- JOINT (C1) ONE-QUARTER DEPTH OF CURB AND GUTTER THICKNESS AS A CONTINUATION OF EACH CONTRACTION JOINT IN THE BASE OR PAVEMENT.
- JOINT (E1) AS CONTINUATION OF 2" EXPANSION JOINT (E) IN THE CONCRETE BASE OR PAVEMENT SHALL EXTEND AND CONTINUE THROUGH THE CURB, CUTTER AND GUTTER.
- JOINT (E2) THROUGH CURB AND CURB AND CUTTER AT THE BEGINNING AND END OF EACH PAVED APPROACH.

CURB, CURB AND GUTTER AND GUTTER CONSTRUCTED APART OR SEPARATED FROM CONCRETE BASE OR PAVEMENT OR AS A FORM FOR ASPHALTIC CONCRETE PAVEMENT SHALL HAVE A JOINT (E2) ENTIRELY THROUGH THE CURB, CURB AND GUTTER AND GUTTER, AT THE BEGINNING AND END OF EACH "PAVED APPROACH" AND A JOINT (C1) TO 1/4 DEPTH OF CURB AND GUTTER THICKNESS AT INTERVALS OF 30 FEET BETWEEN APPROACHES.

JOINTS (E1) AND (E2) THROUGH CURB SHALL BE FILLED WITH PREFORMED FILLER MATERIAL AND SEALED WITH HOT POURED FILLER FOR JOINTS.

JOINT (E1) IN GUTTER SHALL BE FILLED WITH PREFORMED FILLER AND SEALED WITH HOT FILLER MATERIAL.

JOINT (E2) IN GUTTER SHALL BE FILLED WITH PREFORMED FILLER AND SEALED WITH FILLER OR FILLED WITH HOT POURED FILLER.

PREFORMED FILLER MATERIAL SHALL BE PLACED TO PROVIDE 1" HOT POURED FILLER FOR JOINTS.

THE BARRIER CLASS CURBS MAY BE CONSTRUCTED WITHOUT BATTER WHEN CONSTRUCTED ON A RADIUS OF 6 FEET OR LESS. THE (R2) WILL BE REQUIRED.

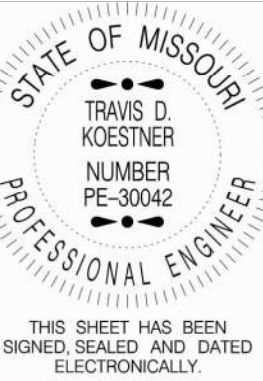
WHERE A SIDEWALK INTERSECTS A CURB, THE SIDEWALK SHALL BE RAMPED NO STEEPER THAN 12:1 SLOPE TO PROVIDED ACCESS FOR WHEELCHAIR ACROSS APPROACHES.

PRECAST TYPE A AND B GUTTER ARE ONLY ALLOWED WHEN CONSTRUCTABILITY ISSUES MAKE CAST IN PLACE NOT PRACTICAL. PRECAST IS ONLY ALLOWED WITH THE APPROVAL OF THE ENGINEER. WHEN ALLOWED BY THE ENGINEER, TYPES A AND B GUTTER MAY BE PRECAST TO CONFORM TO THE DIMENSIONS SHOWN. THE PRECASTER SHALL SUBMIT SHOP DRAWINGS INDICATING THE SECTION LENGTH, SECTION CONNECTION, AND PROPOSED JOINT SEALING SYSTEM. WHEN PRECAST SECTIONS CANNOT CONFORM TO ANY VERTICAL OR HORIZONTAL CURVE THEN CAST IN PLACE IS THE ONLY OPTION. A COMBINATION OF CAST IN PLACE AND PRECAST GUTTER MAY BE PERMITTED.



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JEFFERSON CITY, MO 65102
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STATE OF MISSOURI
TRAVIS D. KOESTNER
NUMBER PE-30042
PROFESSIONAL ENGINEER

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ELECTRONICALLY

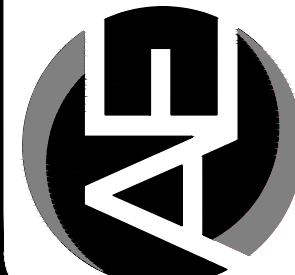
CONCRETE CURB,
CURB AND GUTTER
AND GUTTER

DATE EFFECTIVE: 04/01/2021
DATE PREPARED: 1/27/2021

609.00P

SHEET NO.
1 OF 2

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CURB DETAILS

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



STATE OF MISSOURI
PATRICK J. JOYCE
NUMBER PE-2009030032
PROFESSIONAL ENGINEER

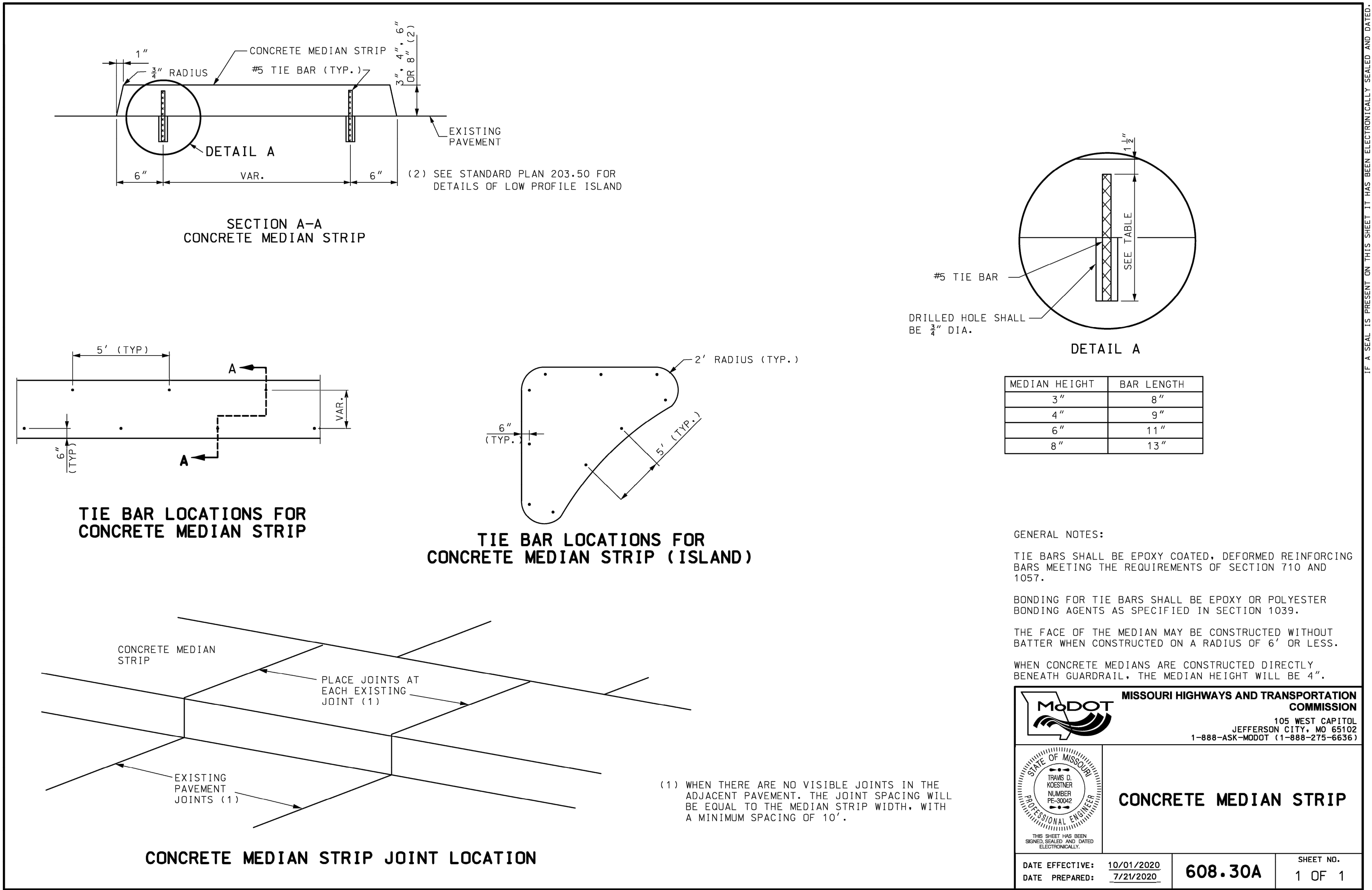
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SHEET NUMBER

24
24 OF 66

25
25 OF 66

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		JOB NUMBER:	21KC10060
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COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

MEDIAN DETAILS

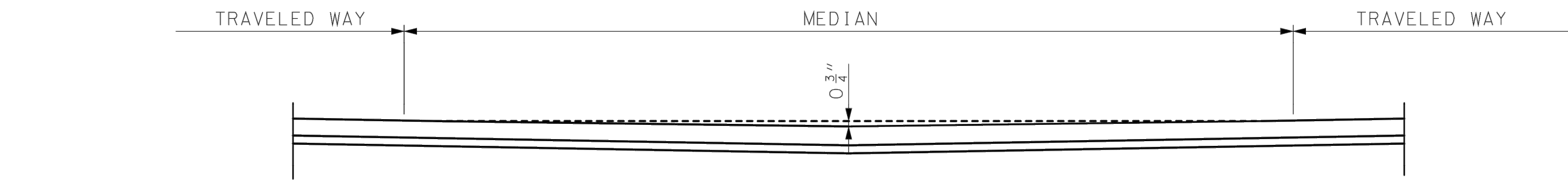
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STATE OF MISSOURI
PATRICK JOYCE
NUMBER PE-2009030032
PROFESSIONAL ENGINEER
04/07/2023

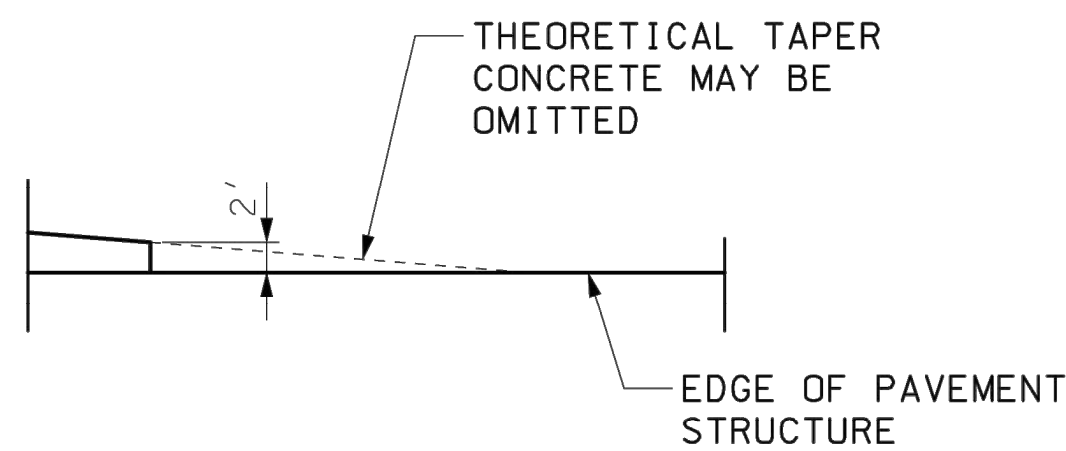
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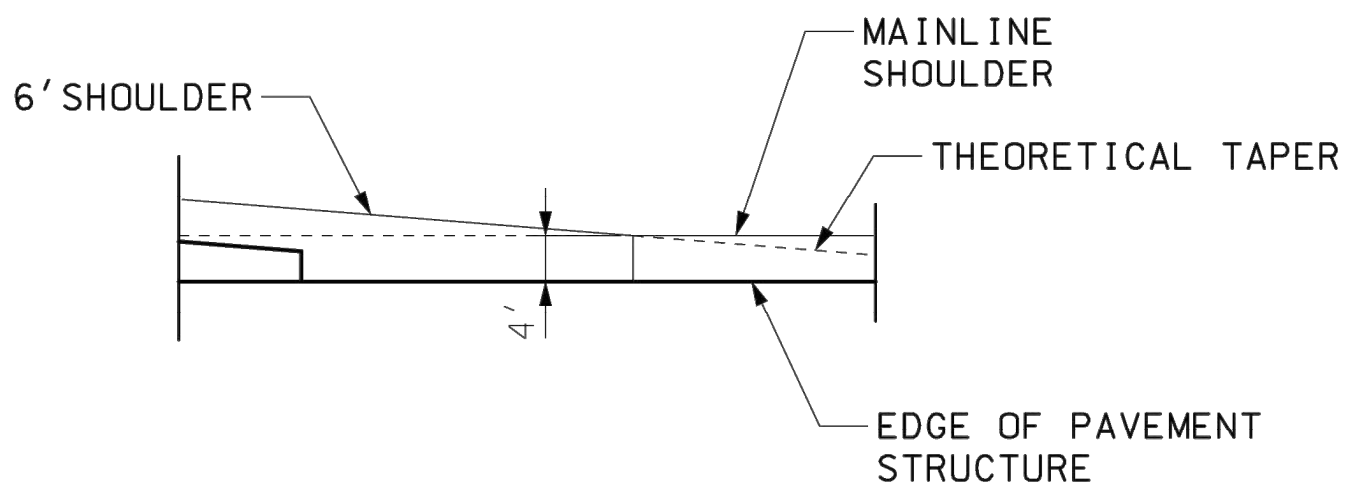
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SECTION ALONG MEDIAN OPENING &

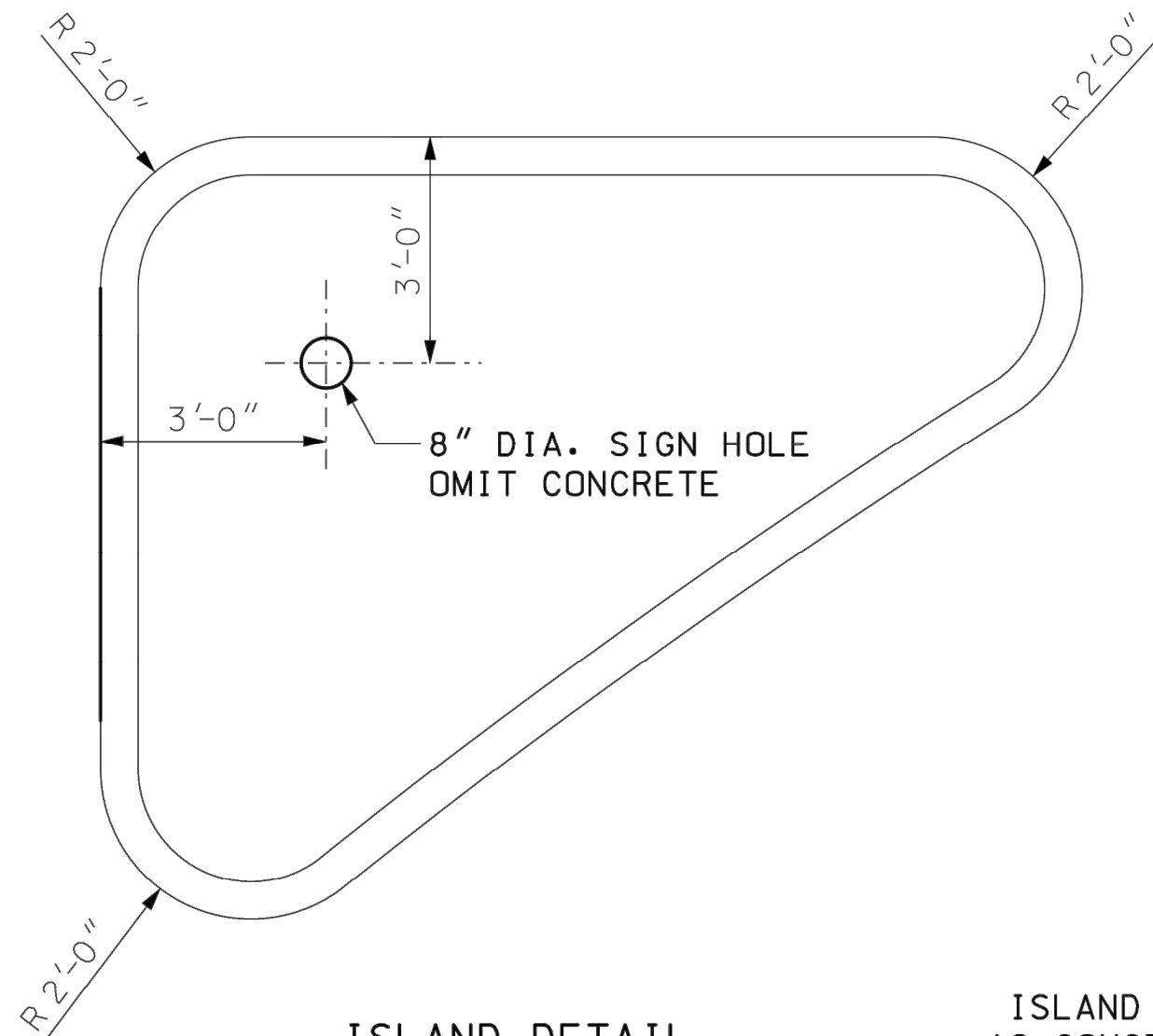


TAPER TREATMENT



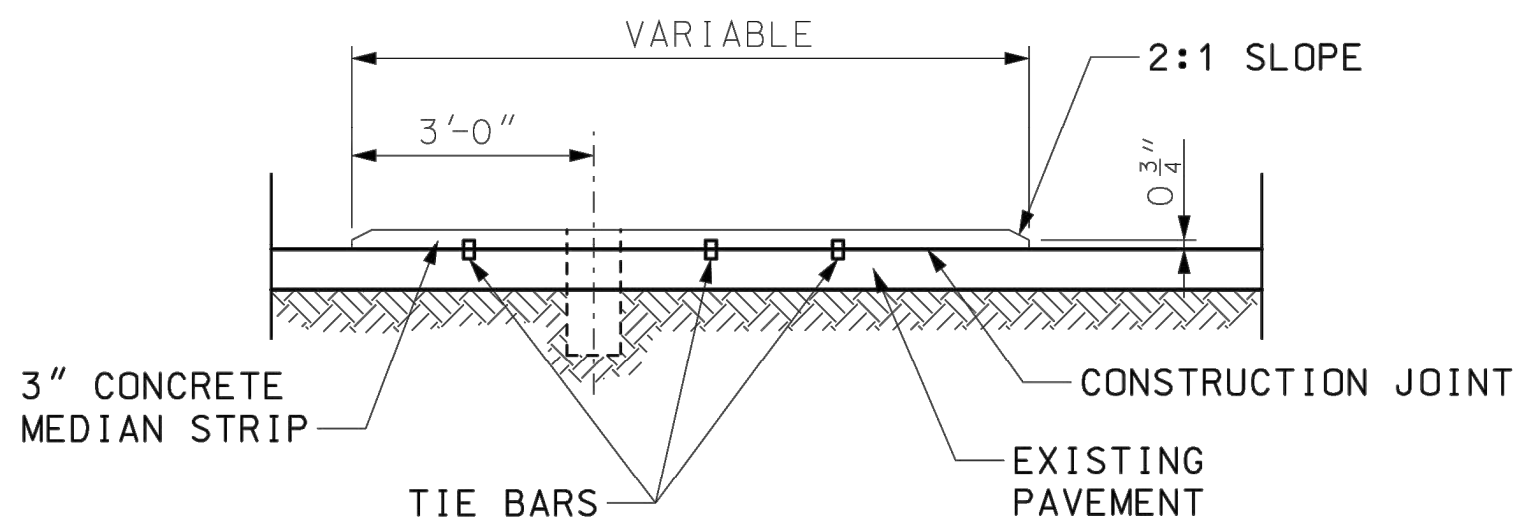
SHOULDER TAPER TREATMENT

DETAIL A



ISLAND DETAIL

ISLAND WILL BE PAID FOR AS CONCRETE MEDIAN STRIP.



LOW PROFILE ISLAND DETAIL

DETAIL B

GENERAL NOTES:
FOR DETAILS ON CONCRETE MEDIAN STRIP CONSTRUCTION, SEE STANDARD
PLAN 608.30.



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STATE OF MISSOURI
ERIC E. SCHROETER
NUMBER PE-26411
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

TYPICAL MEDIAN OPENING
DIVIDED HIGHWAYS

DATE EFFECTIVE: 04/01/2016
DATE PREPARED: 2/11/2016

203.50N

SHEET NO.
2 OF 2

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		DATE:	04/07/22
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		JOB NUMBER:	21K010060
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MODOT STATE HWY 150 WIDENING

MEDIAN DETAILS-2

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

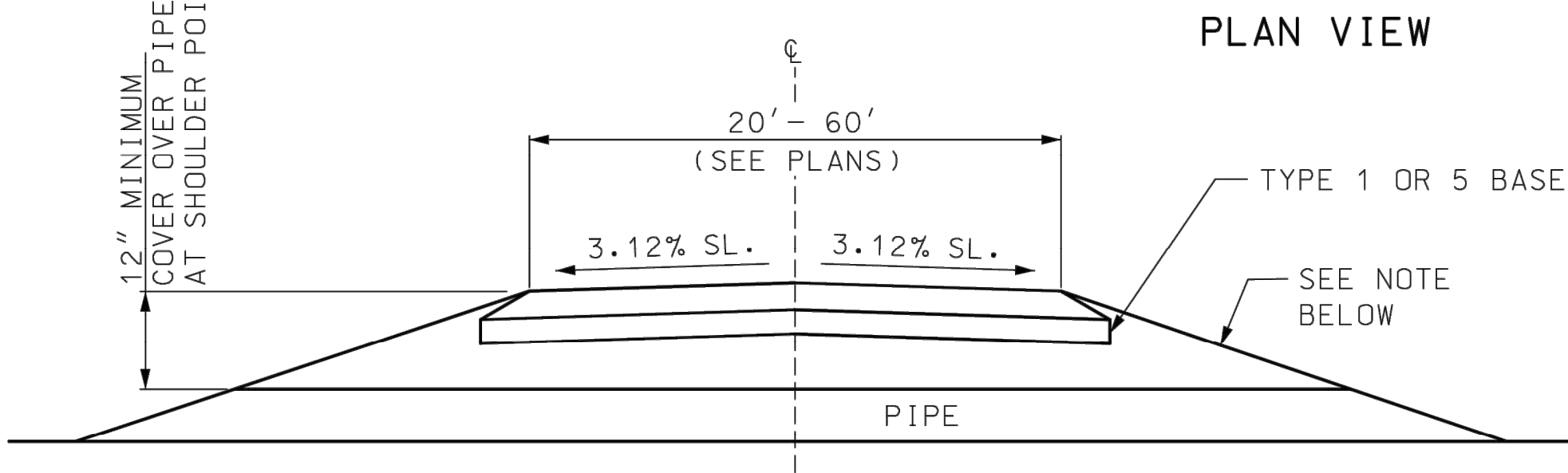
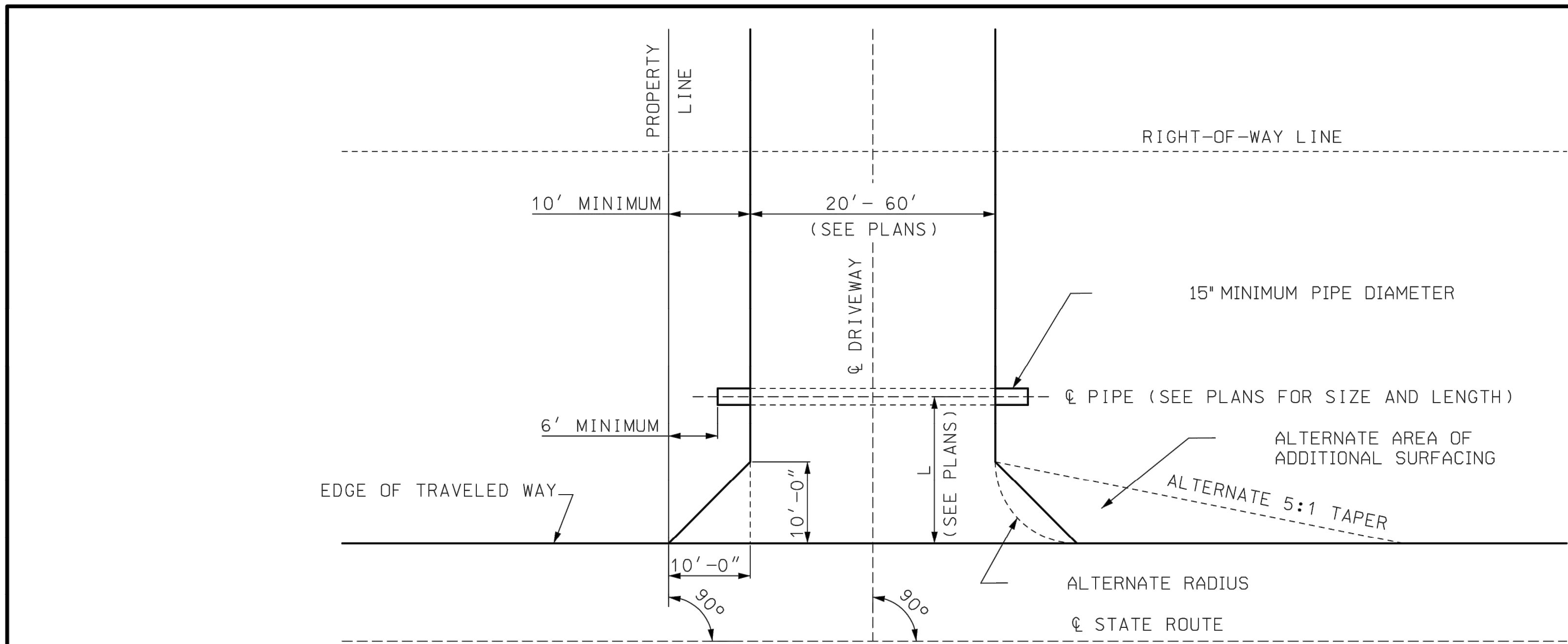
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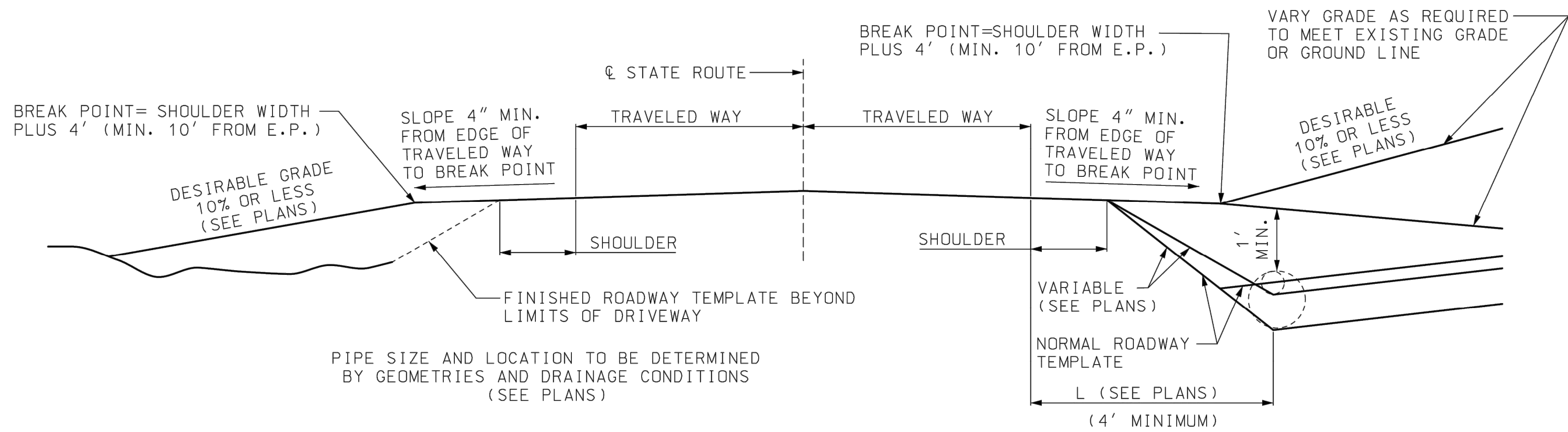
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DRIVEWAY TYPICAL SECTION



PROFILE VIEW

DRIVEWAY SIDE SLOPES: *

1 TO 1700 VEHICLES PER DAY ON STATE ROUTE USE 3:1 SLOPE (OR 6:1 SLOPE WHERE PRACTICABLE).

OVER 1700 VEHICLES PER DAY ON STATE ROUTE USE 6:1 SLOPE (OR FLATTER WHERE PRACTICABLE).

NOTE: RECOMMENDED WIDTH OF DRIVEWAY - 20'

* IN ORDER TO MINIMIZE THE USE OF 6:1 SLOPED END PIPE SECTIONS ON NEW CONSTRUCTION AND WHERE POSSIBLE ON EXISTING ROUTES, THE LOCATION OF DRAINAGE PIPE SHOULD BE BEYOND THE CLEAR ZONE DISTANCE AS SHOWN IN TABLE 3.1 OF THE 1988 EDITION OF "ROADSIDE DESIGN GUIDE".

GENERAL NOTES:

NO PART OF THE DRIVEWAY EXCLUDING TAPERS SHALL BE CONSTRUCTED BEYOND THE PROPERTY FRONTAGE.

SURFACING SHALL BE AS SHOWN ON THE PLANS OR PERMIT.

4 INCHES OF TYPE 1 OR 5 BASE SHALL BE PLACED AND COMPACTED BENEATH THE AREAL SURFACE OF CONCRETE AND ASPHALT DRIVEWAYS.

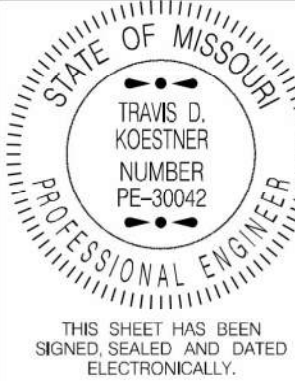
LENGTH OF PIPE SHALL BE DETERMINED BY DEPTH AND LOCATION OF DITCH. (MINIMUM 32' LENGTH OF MINIMUM 15" DIAMETER PIPE), SEE PLANS.

THIS DRAWING ILLUSTRATES DRIVEWAY DETAILS FOR MINIMUM SITUATIONS. TRAFFIC VOLUMES, SAFETY CONSIDERATIONS, LOCAL REQUIREMENTS, ETC., MAY DICTATE MORE EXTENSIVE IMPROVEMENTS THAN ILLUSTRATED.



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DRIVEWAY
TYPE I

DATE EFFECTIVE: 07/01/2020
DATE PREPARED: 4/29/2020

203.61B

SHEET NO.
1 OF 1

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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

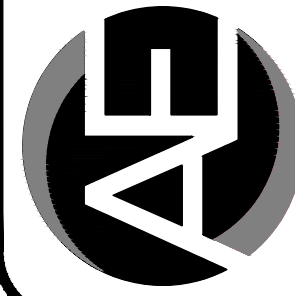
MEDIAN DETAILS-3

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

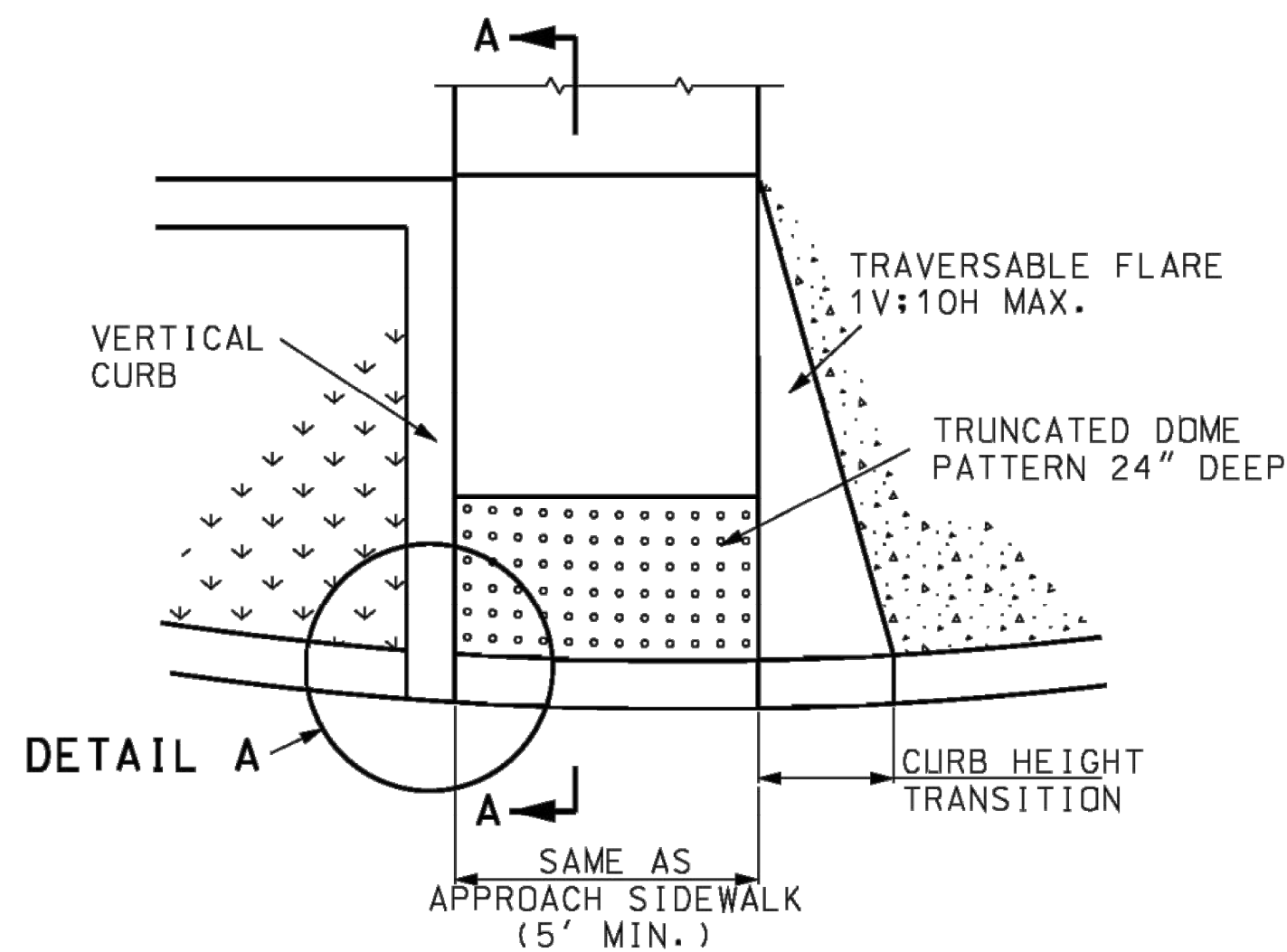
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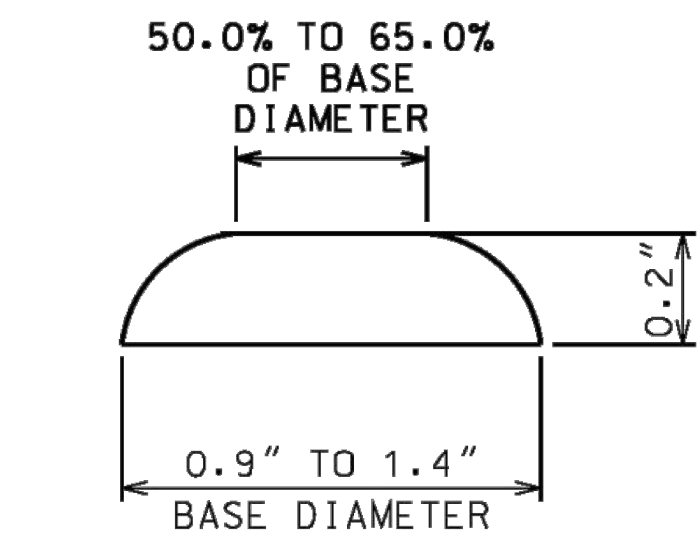
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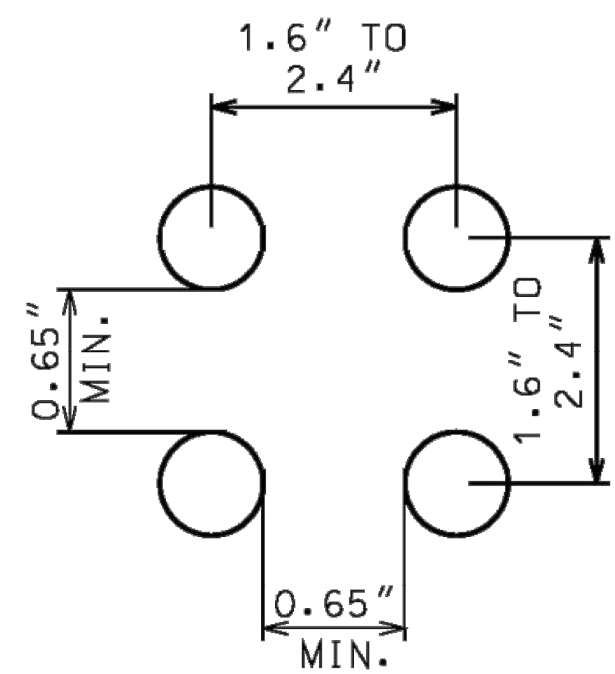
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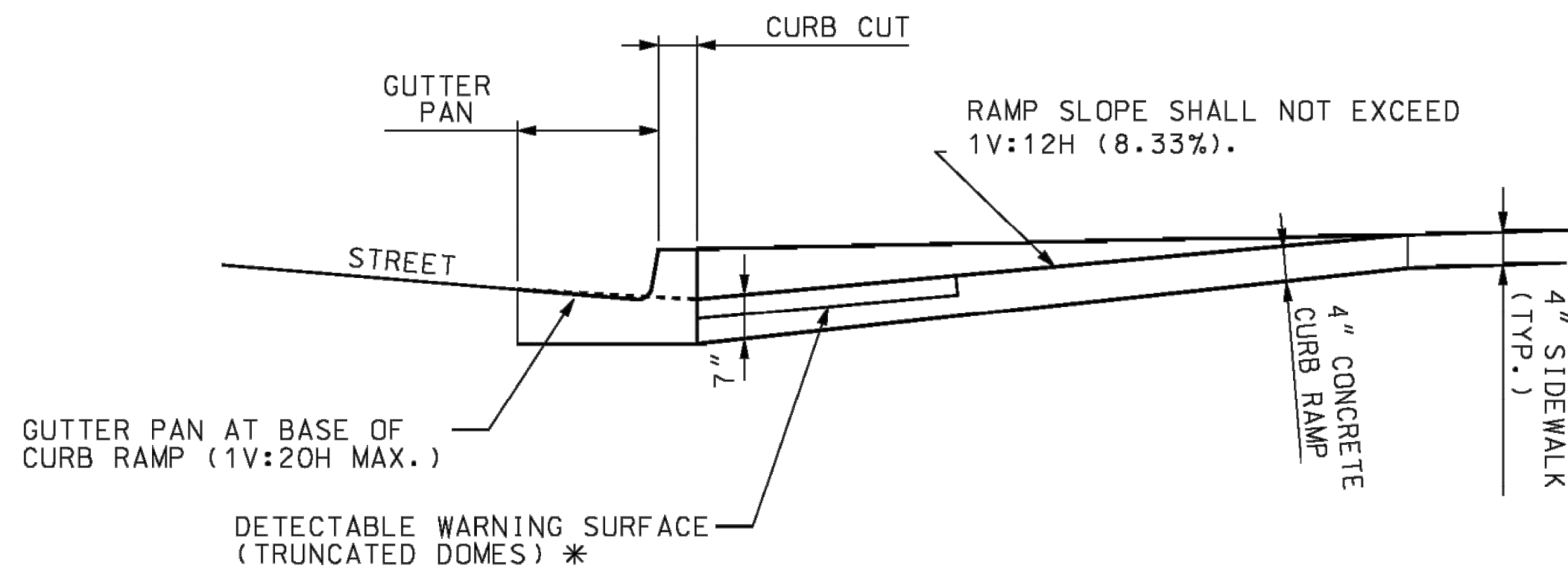
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TRUNCATED DOMES CROSS SECTION

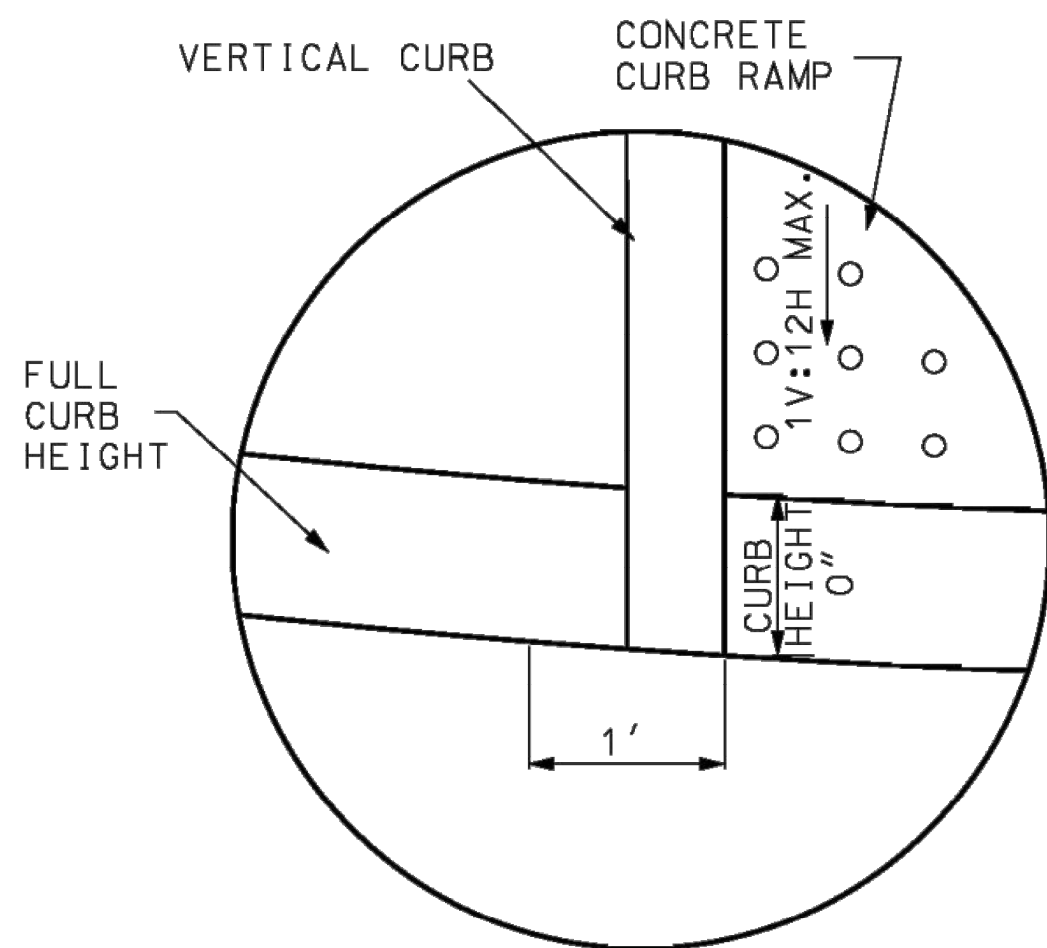


TRUNCATED DOMES SPACING



SECTION A-A

* SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. THE CONCRETE BORDER SHALL NOT EXCEED 2 INCH PER SIDE.



DETAIL A

GENERAL NOTES:

ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT - GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY. EXCEPTIONS MUST BE APPROVED BY THE ENGINEER. ALL OTHER AREAS OF NON-COMPLIANCE SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE.

THE SURFACES OF PEDESTRIAN ACCESS ROUTES AND ELEMENTS, AND SPACES REQUIRED TO CONNECT TO PEDESTRIAN ACCESS ROUTES, SHALL BE FIRM, STABLE, SLIP RESISTANT, AND SHALL NOT POND WATER.

SIDEWALK, RAMP AND LANDING CROSS SLOPES SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE THROUGH ENTRANCES, ALLEYS, AND SIDEROAD CONNECTIONS WITH STOP OR YIELD CONTROL SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 5.00% MAXIMUM.

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.

30"x 48" CLEAR SPACE SHALL BE PROVIDED CENTERED ON THE PEDESTRIAN PUSH BUTTON.

BEYOND THE BOTTOM GRADE BREAK OF A CURB RAMP, A CLEAR SPACE 4' MINIMUM BY 4' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.

SIDE FLARES OF CURB RAMP, IN THE PATH OF PEDESTRIAN TRAVEL (TRAVERSABLE), SHALL NOT EXCEED A SLOPE OF 1V:10H. SIDE FLARES OUTSIDE THE PEDESTRIAN PATH (NONTRAVERSABLE) MAY BE VERTICAL.

TRANSITION FROM SIDEWALK OR CURB RAMP TO GUTTER TO ROADWAY SHALL BE FLUSH.

DETECTABLE WARNING SURFACES (TRUNCATED DOMES) SHALL BE PREFORMED AND INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. STAMPED CONCRETE WILL NOT BE ACCEPTED.

THE DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. TRUNCATED DOMES SHALL SPAN THE FULL WIDTH OF THE RAMP OR LANDING 24" DEEP.

DETECTABLE WARNING SURFACES SHALL BE ALIGNED PERPENDICULAR OR RADIAL TO THE BREAK BETWEEN THE RAMP, LANDING OR BLENDED TRANSITION, AND THE STREET.

WHERE THE BOTTOM GRADE BREAK OF A CURB RAMP IS LESS THAN 5' FROM THE BACK OF CURB, DETECTABLE WARNINGS SHALL BE LOCATED ON THE RAMP SURFACE AT THE BACK OF THE CURB. WHERE THE GRADE BREAK IS GREATER THAN 5' FROM THE BACK OF CURB, THE DETECTABLE WARNING SHALL BE LOCATED ON THE LOWER LANDING.

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 ERIC F. SCHROETER NUMBER PE-28411 PROFESSIONAL ENGINEER THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.		CURB RAMP	
DATE EFFECTIVE:	04/01/2015	608.50	SHEET NO. 1 of 4
DATE PREPARED:	5/29/2015		

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PER MODOT COMMENT	JGD	07/19/23	3
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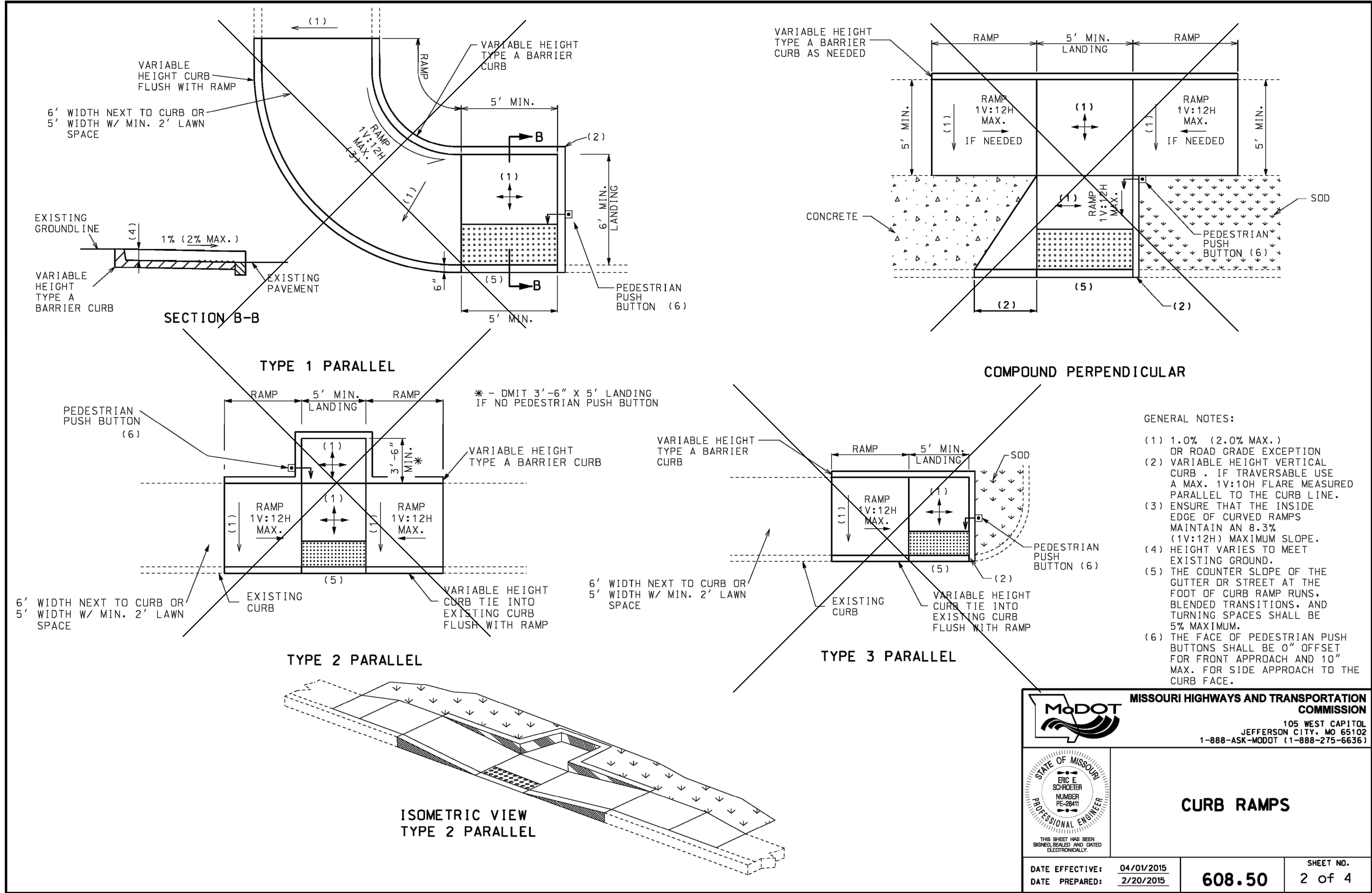
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

CURB RAMP DETAILS-1

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

**PATRICK J. JOYCE**
NUMBER PE-2009030032
PROFESSIONAL ENGINEER
04/07/2023

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CURB RAMPS

STATE OF MISSOURI
ERIC E. SCHROETER
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SHEET NO.
2 of 4

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CURB RAMP DETAILS-2

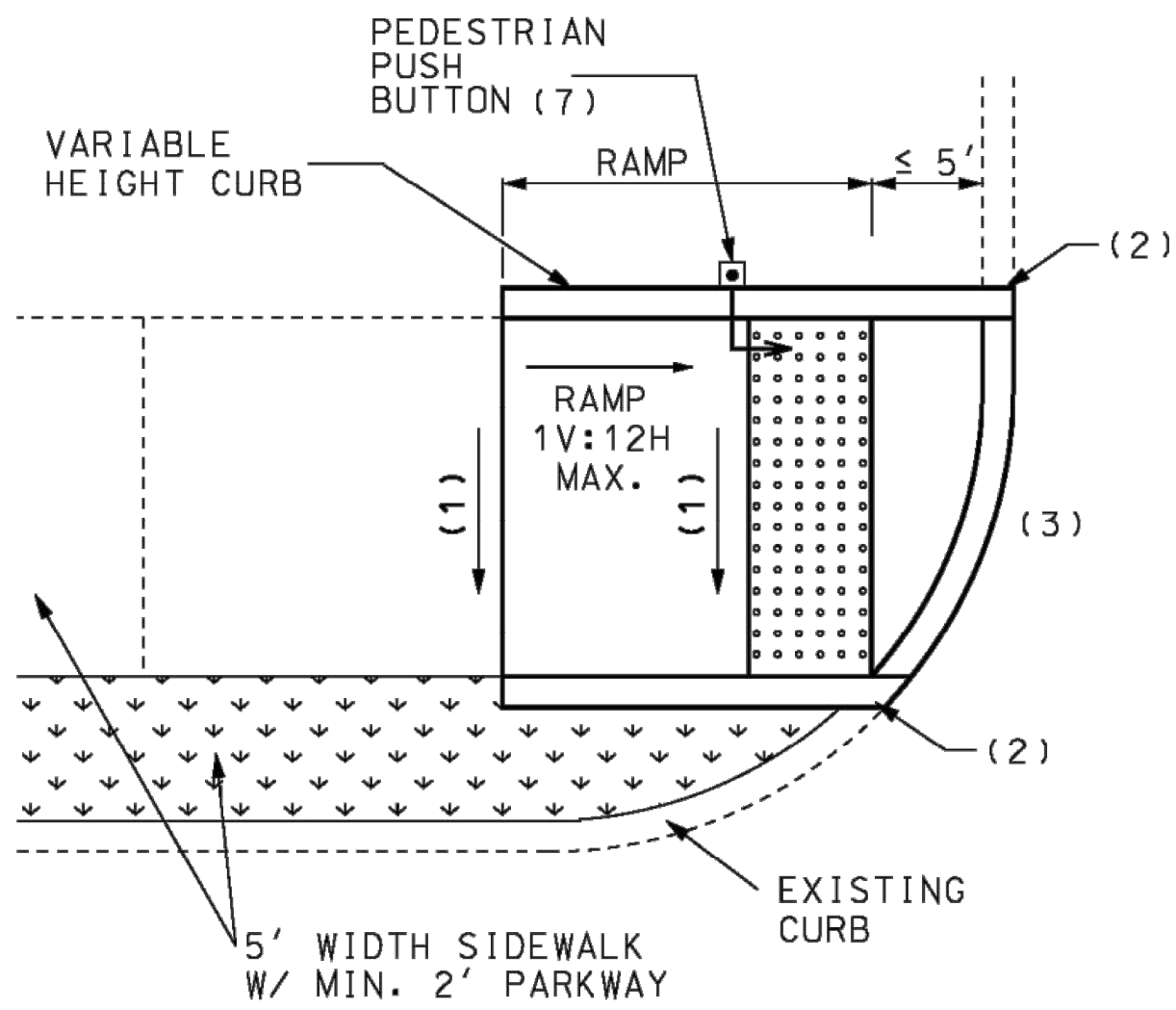
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LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER PE-28411
PROFESSIONAL ENGINEER

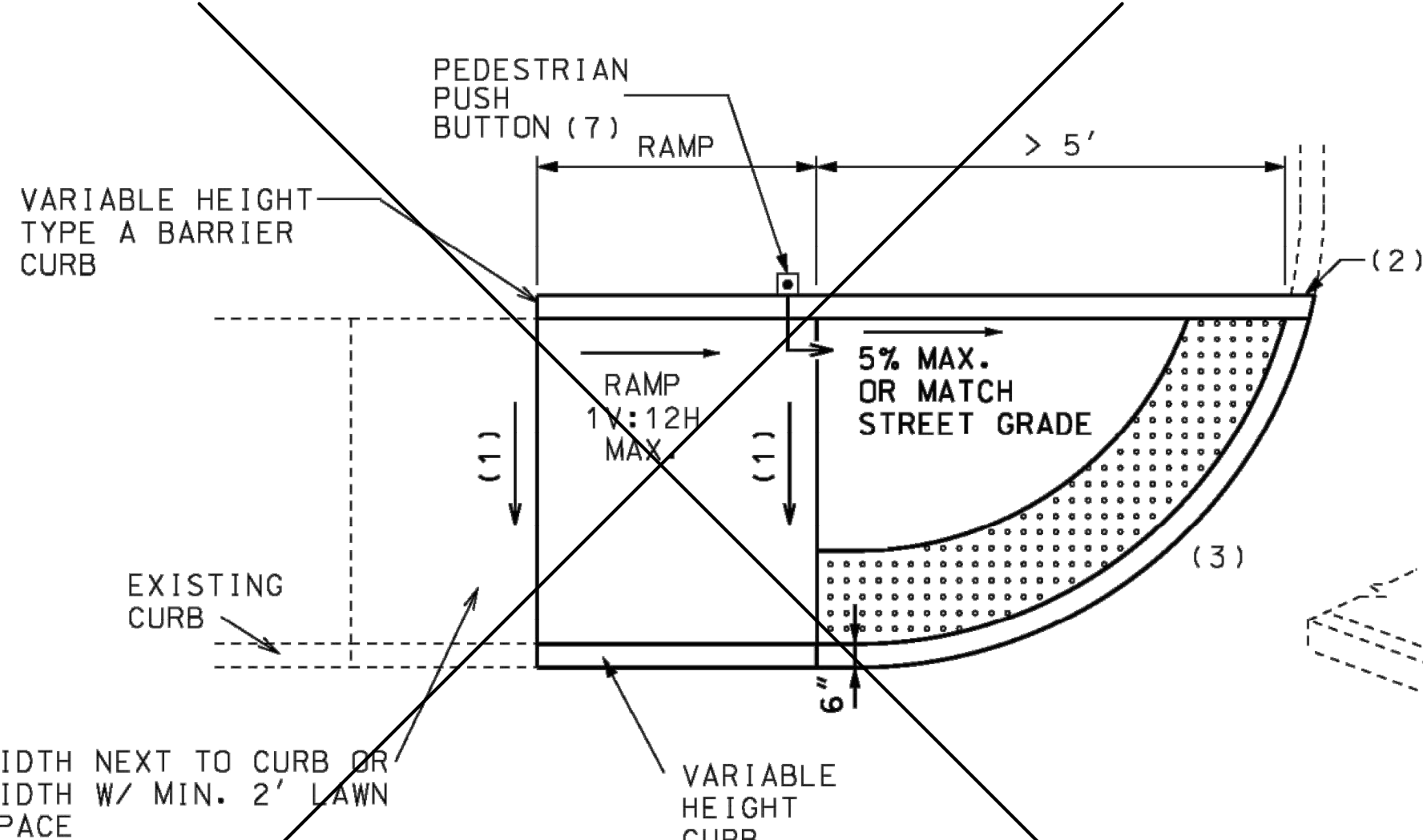
04/07/2023

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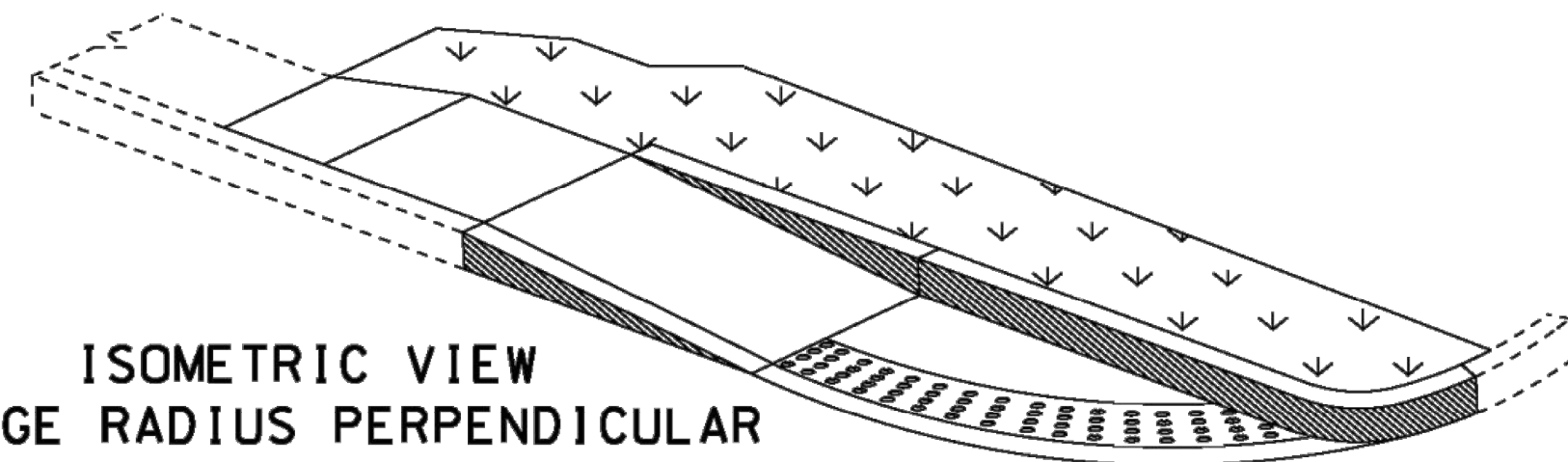
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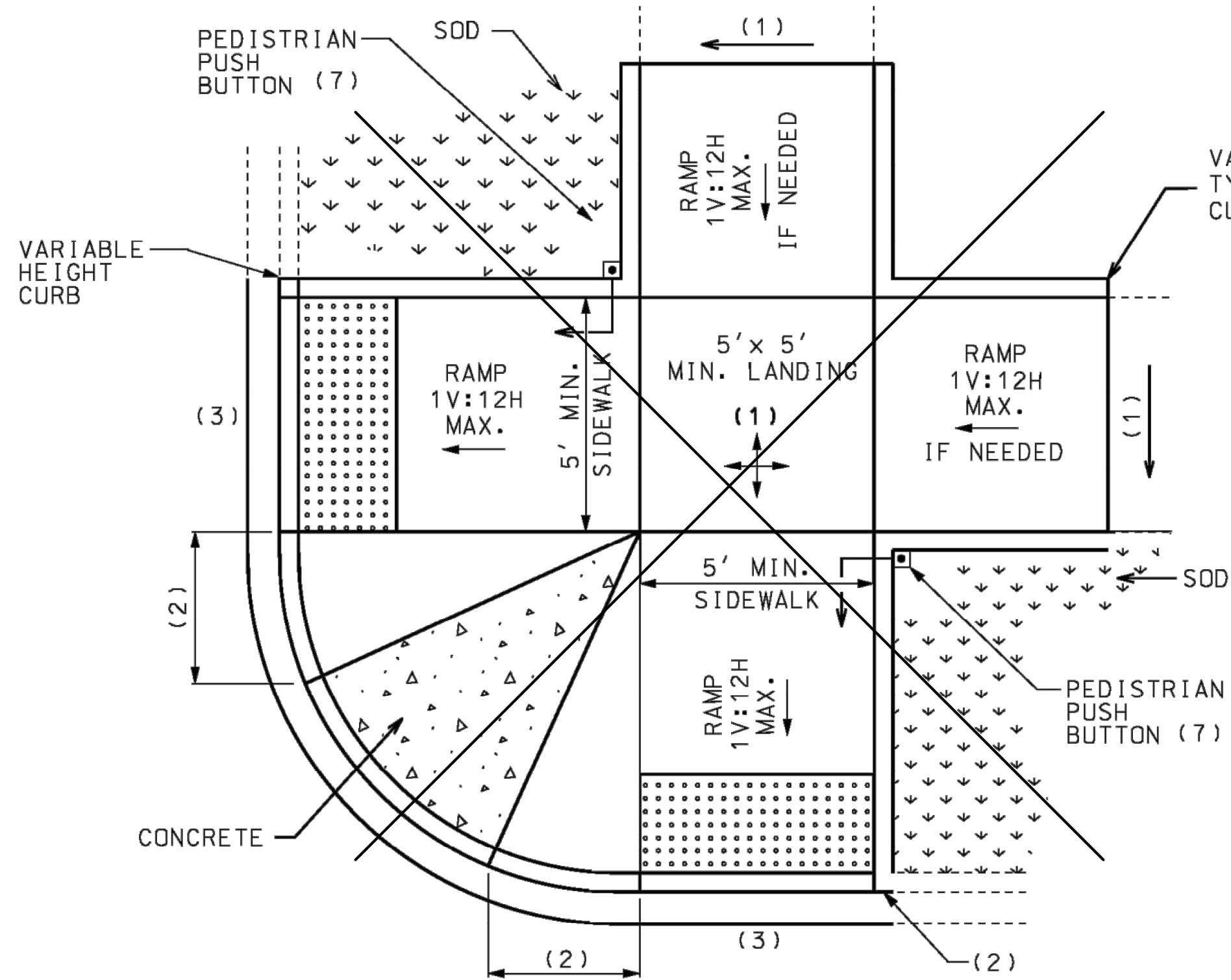
SMALL RADIUS PERPENDICULAR



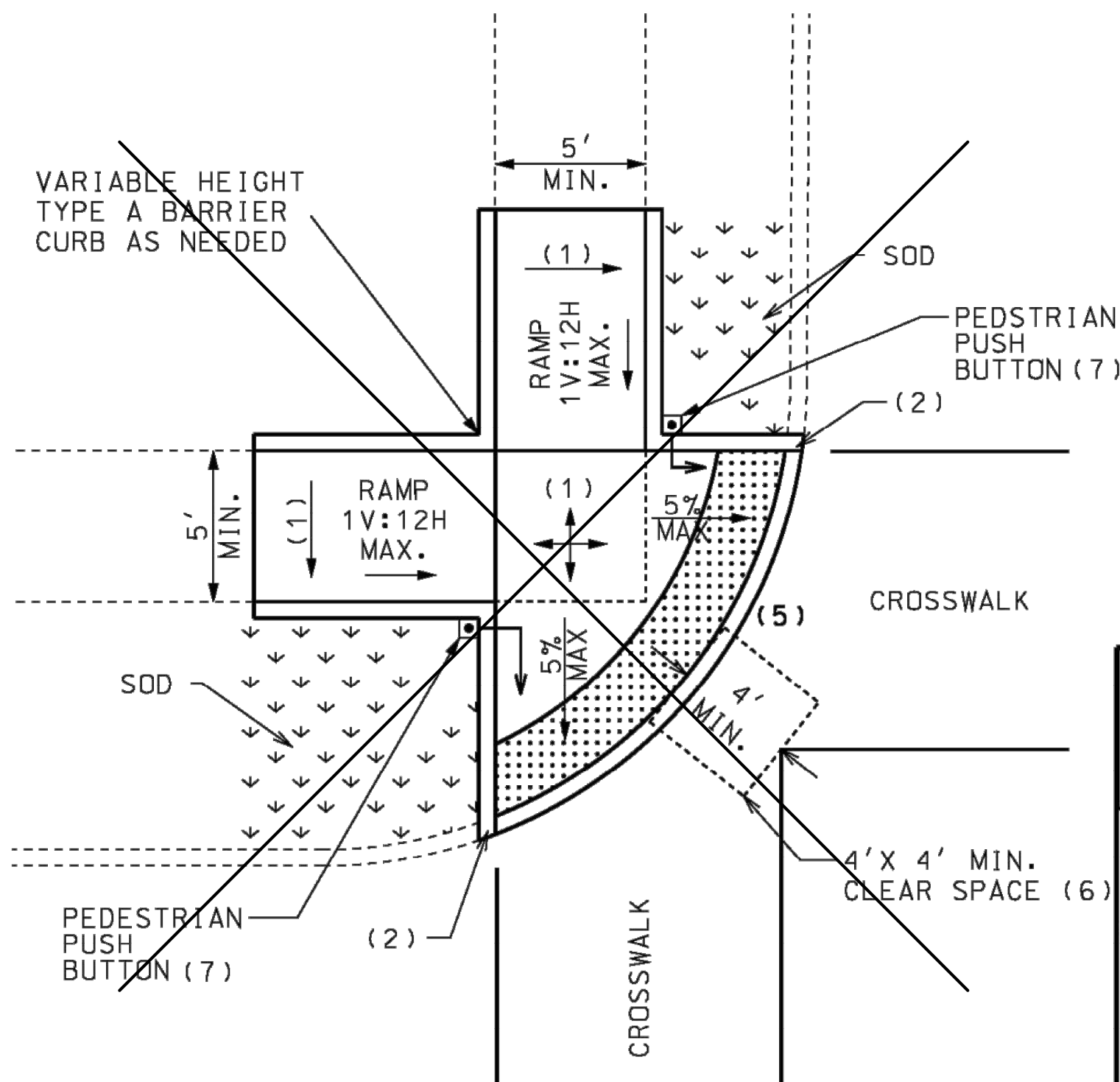
LARGE RADIUS PERPENDICULAR



ISOMETRIC VIEW
LARGE RADIUS PERPENDICULAR



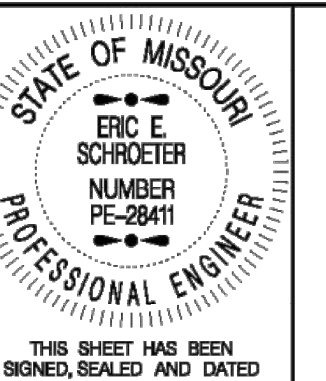
DUAL PERPENDICULAR



BLENDED TRANSITION

GENERAL NOTES:

- (1) 1.0% MINIMUM, 2.0% MAXIMUM.
- (2) VERTICAL OR 1' FLARE. IF TRAVERSABLE USE A MAX. 1V:10H FLARE MEASURED PARALLEL TO THE CURB LINE.
- (3) ENSURE THAT THE INSIDE EDGE OF CURVED RAMPS MAINTAIN AN 8.3% (1V:12H) MAXIMUM SLOPE.
- (4) HEIGHT VARIES TO MEET EXISTING GROUND.
- (5) THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAXIMUM.
- (6) BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE 4' X 4' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.
- (7) THE FACE OF PEDESTRIAN PUSH BUTTONS SHALL BE 0" OFFSET FOR FRONT APPROACH AND 10" MAX. FOR SIDE APPROACH TO THE CURB FACE.

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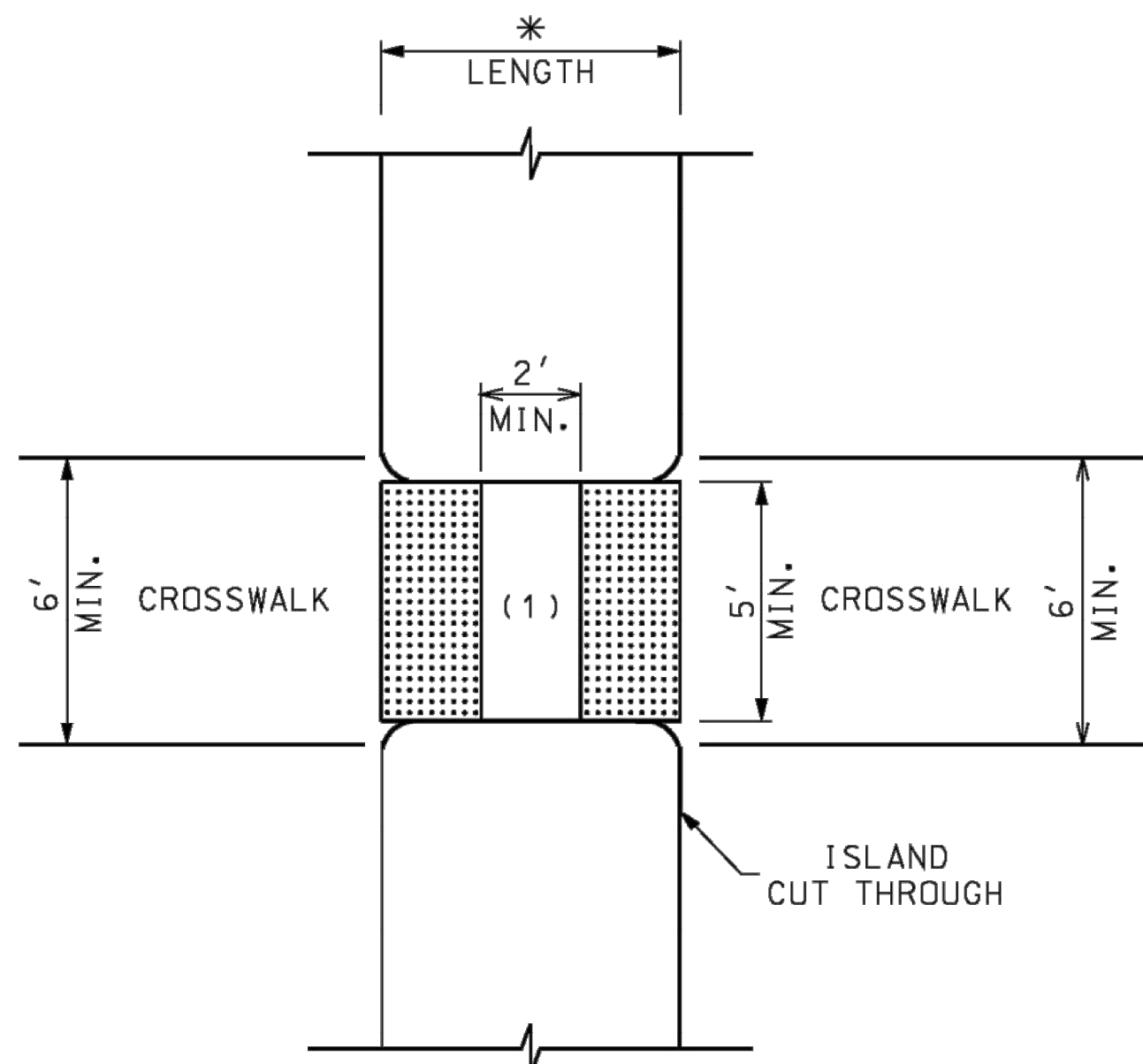
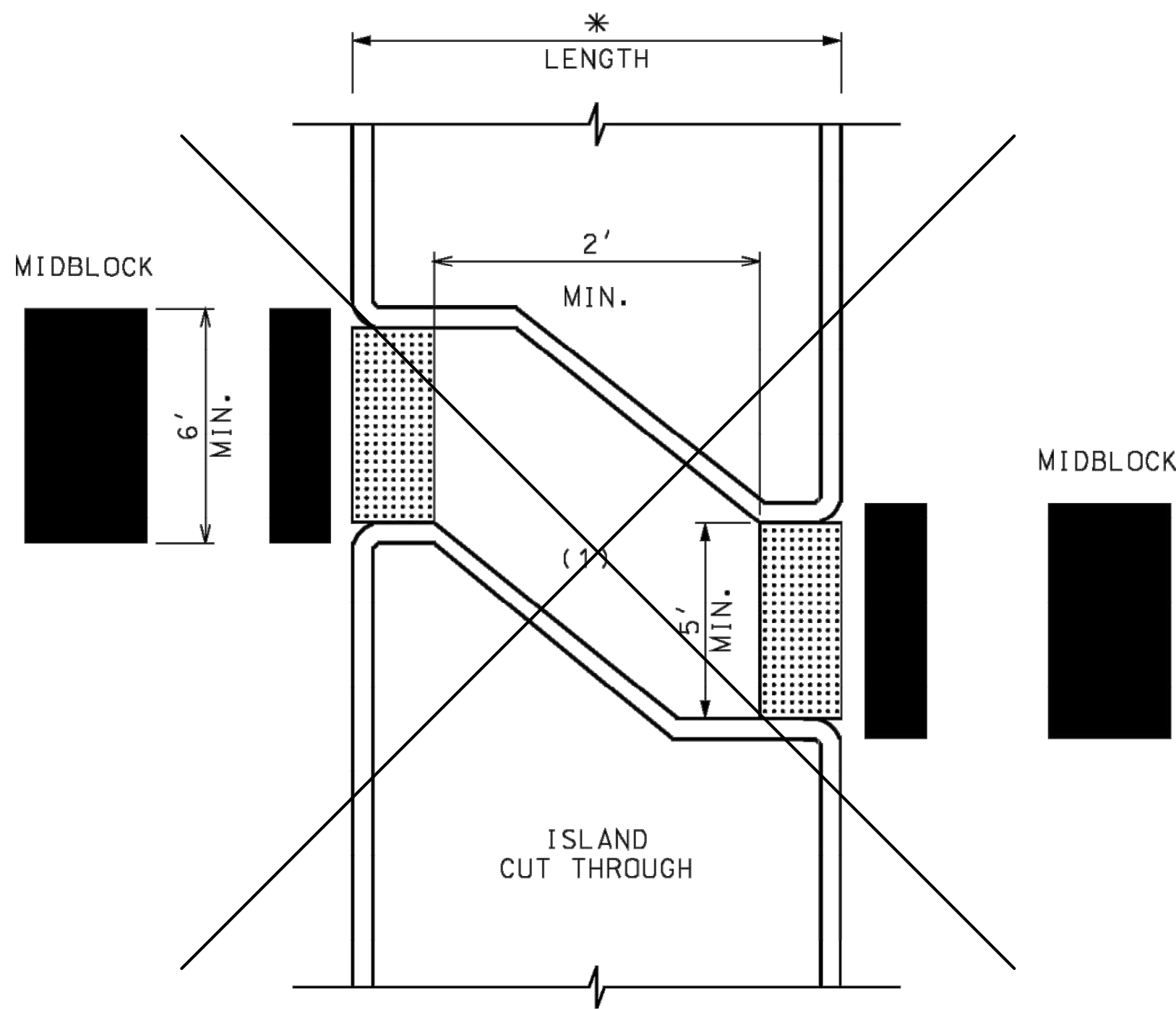
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

CURB RAMP DETAILS-3

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

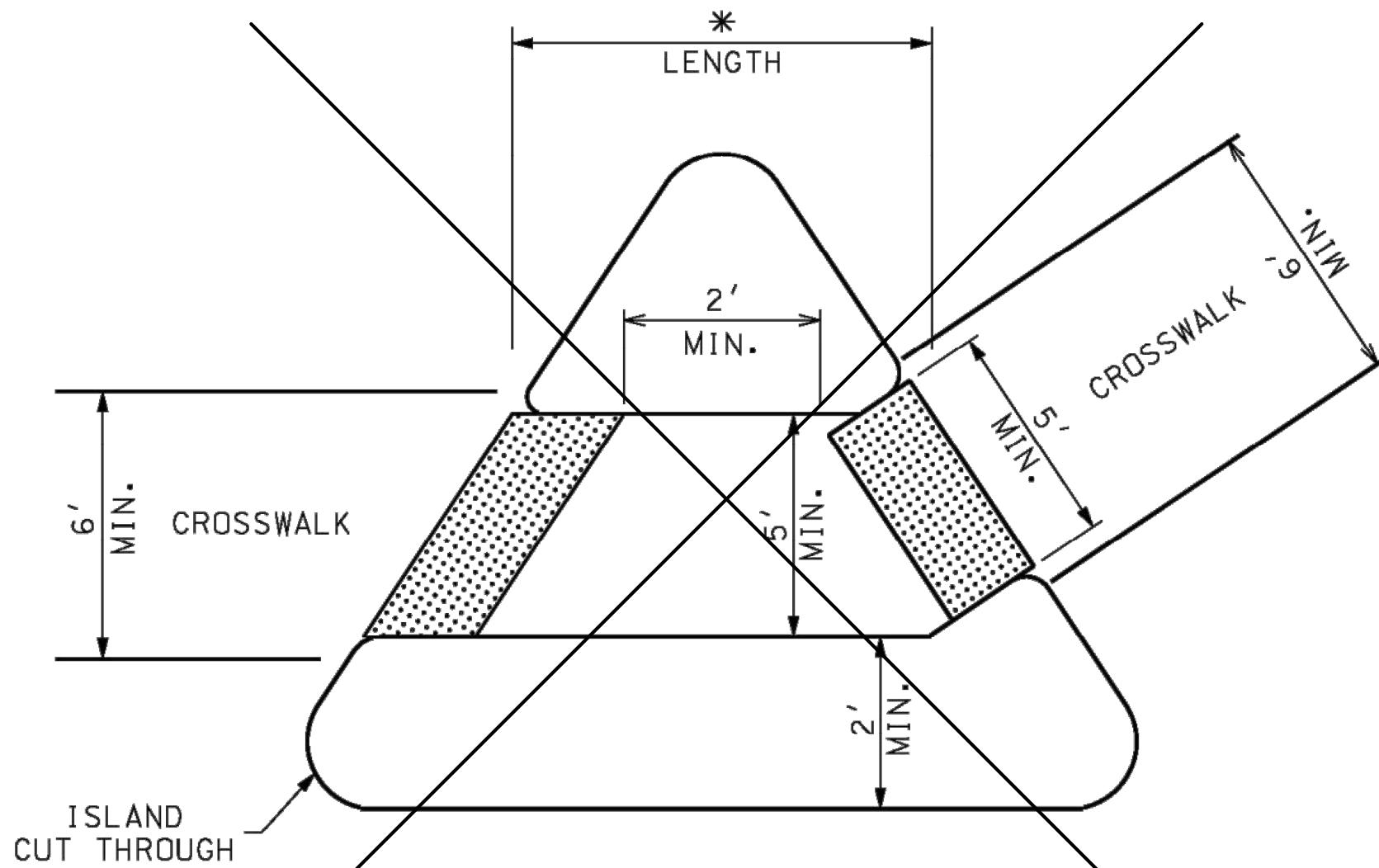
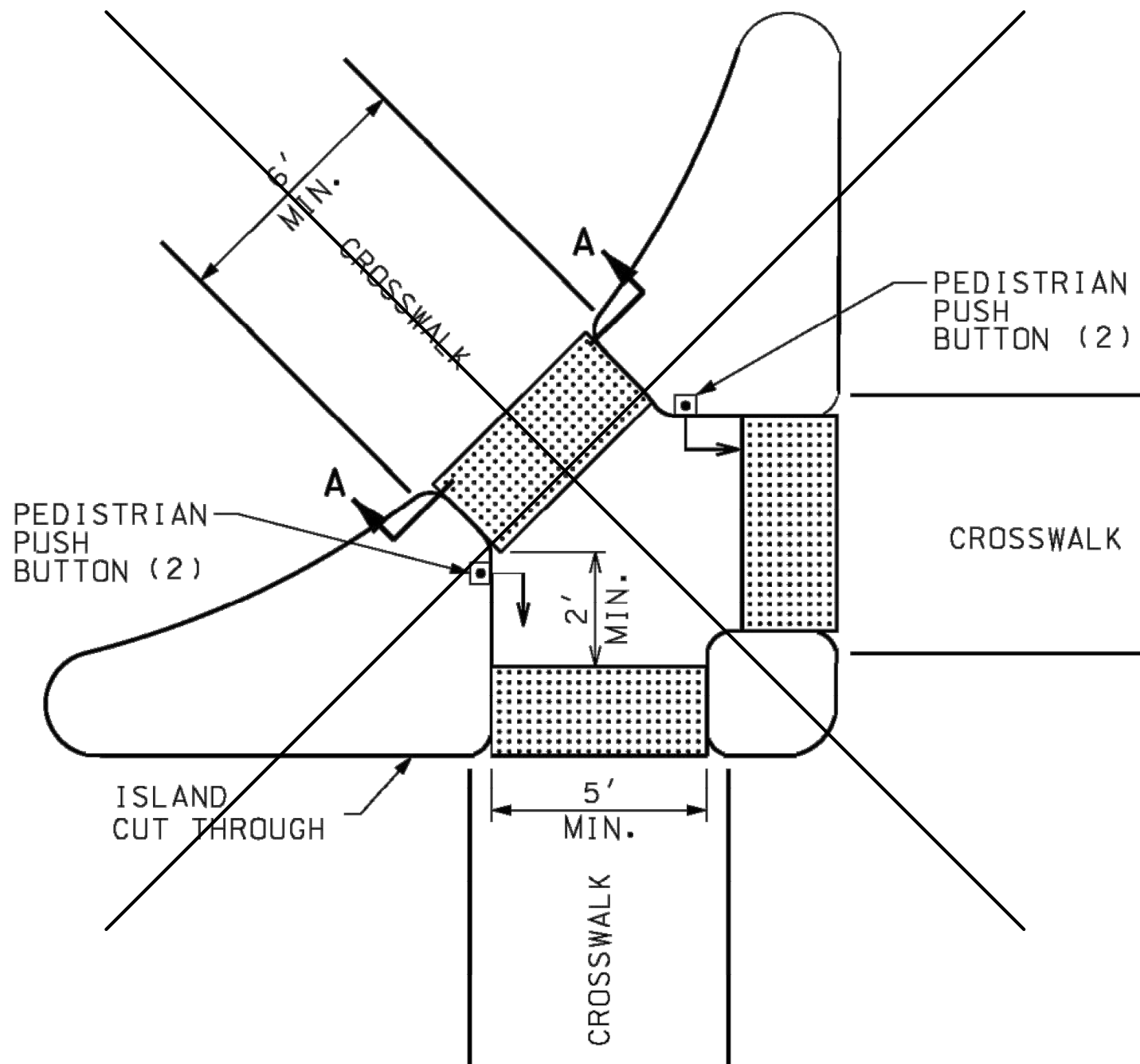


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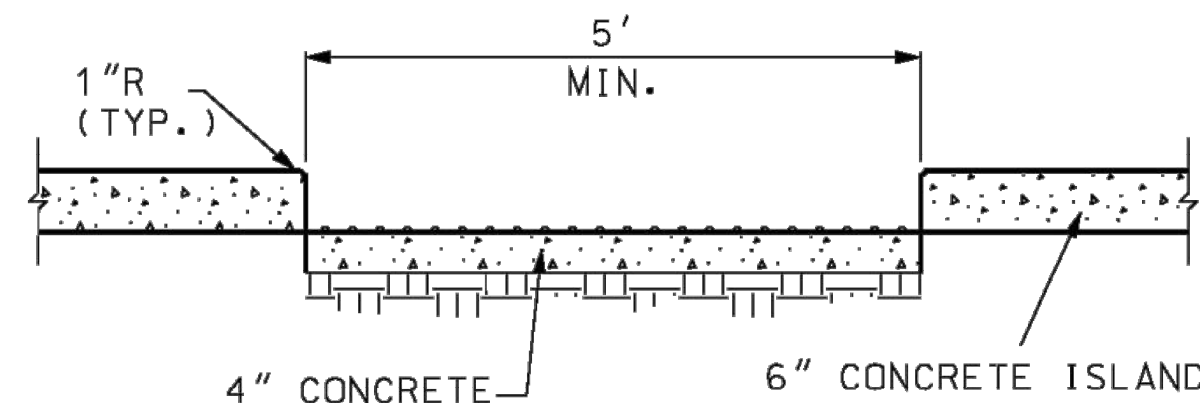
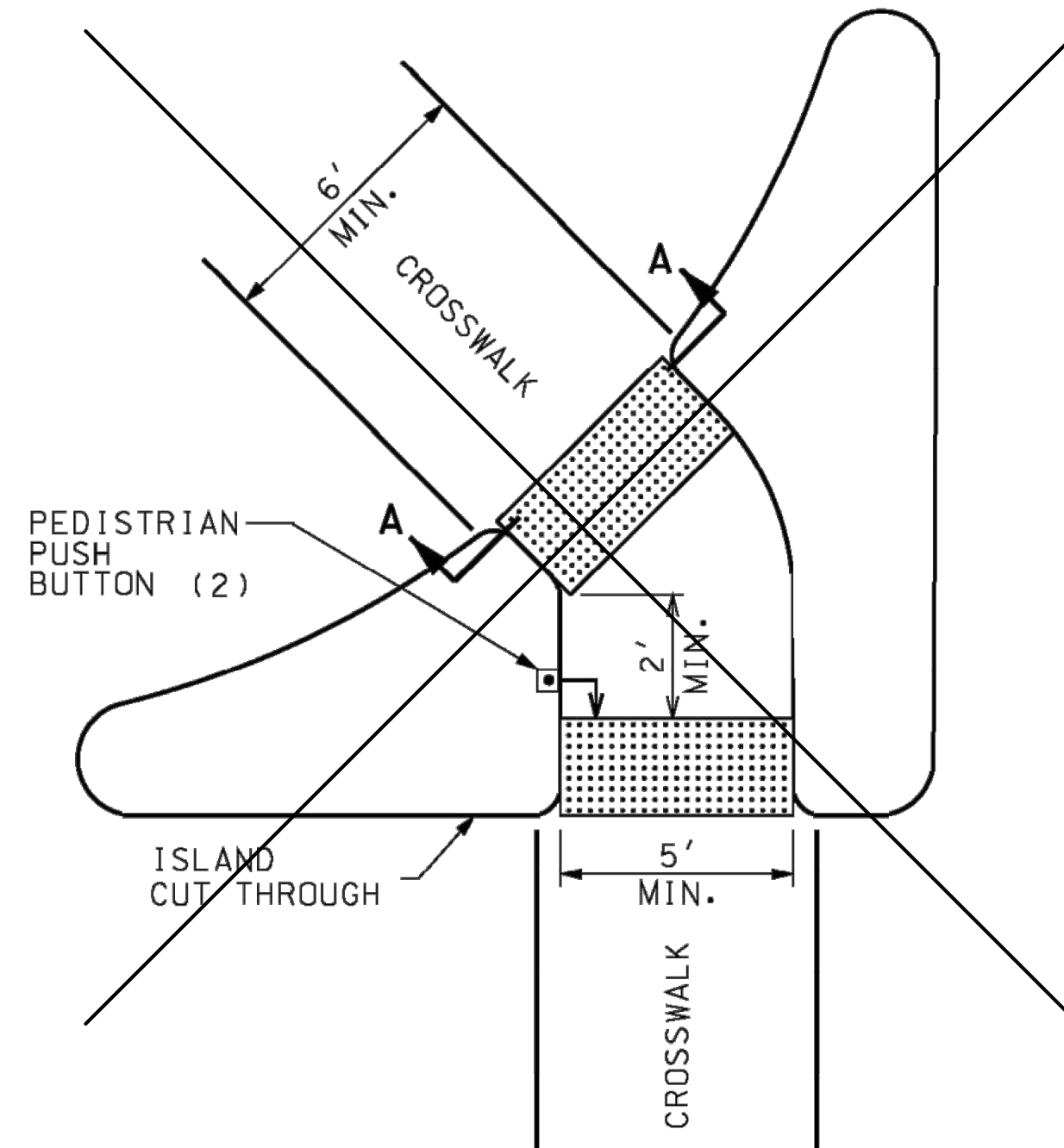
ISLAND CUT THROUGHS

(2) PEDESTRIAN PUSH BUTTONS SHALL BE 0" OFFSET FOR FRONT APPROACH AND 10" MAX. FOR SIDE APPROACH TO THE CURB FACE.



* DETECTABLE WARNING SURFACES SHALL BE OMITTED IF LENGTH IS < 6', BECAUSE REFUGE SPACE IS DEEMED TOO SMALL.

(1) DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE EDGES OF THE PEDESTRIAN ISLAND AND SHALL BE SEPARATED BY 2' MIN. LENGTH OF SURFACE WITHOUT DETECTABLE WARNINGS.



SECTION A-A
ISLAND CUT THROUGH TYPICAL

RAMP OR CUT-THROUGH DEPENDING ON ISLAND WIDTH. IF RAMPED, PROVIDE 4' MINIMUM LANDING AND SLOPE RAMPS AT 1V:12H MAX.

RAMP MUST BE CONSTRUCTED TO DRAIN TO THE OUTSIDE.

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CURB RAMPS		SHEET NO. 4 of 4	
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CURB RAMP DETAILS-4
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LEE'S SUMMIT, JACKSON COUNTY, MO

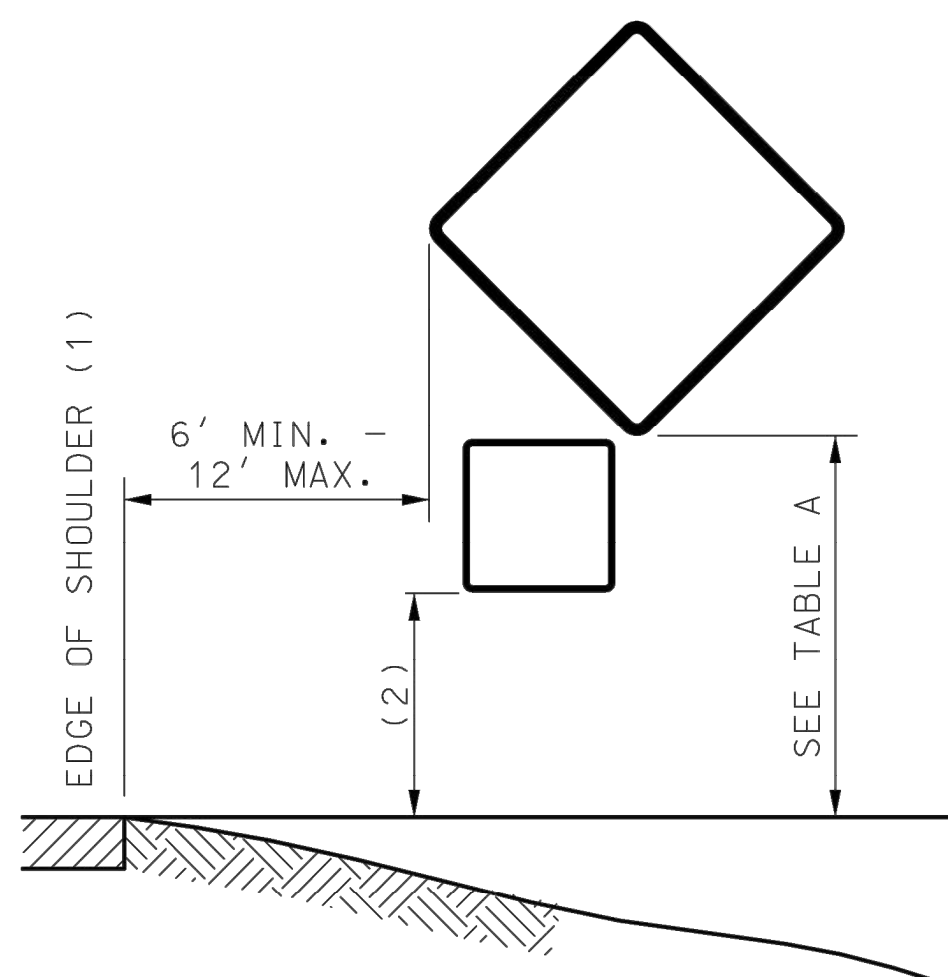
STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER PE-2009030032
PROFESSIONAL ENGINEER
04/07/2023

TABLE A
WORK ZONE SIGN MOUNTING REQUIREMENTS

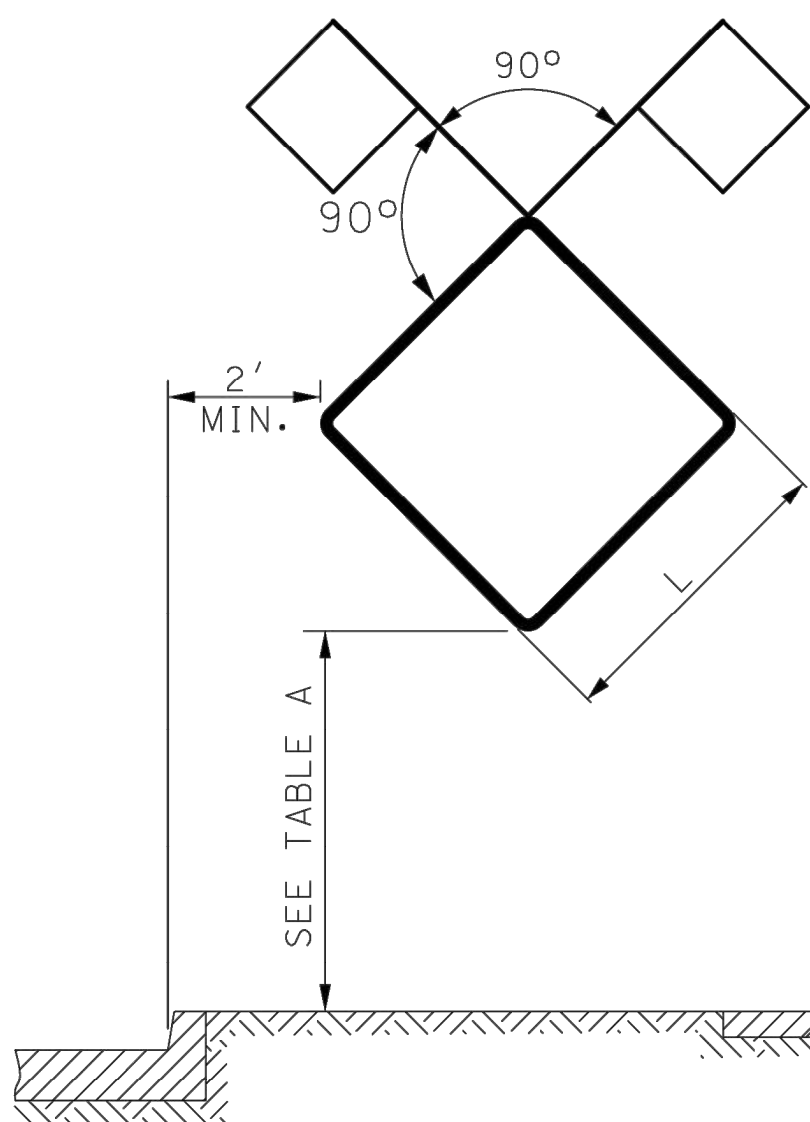
TYPE	SIGN SUPPORT	SIGN SUBSTRATE	MINIMUM MOUNTING HEIGHT(3)	USAGE LIMITATIONS	COMMENTS
POST	PERFORATED SQUARE STEEL TUBE U-CHANNEL WOOD	RIGID	5' RURAL UNDIVIDED HIGHWAYS 7' RURAL DIVIDED HIGHWAYS 7' URBAN HIGHWAYS	NONE	POSTS SHALL BE FREE OF ANY BRACING AND EXTEND NO FURTHER ABOVE THE SIGN EXCEPT AS NEEDED FOR WARNING LIGHT ATTACHMENT FOR DETAILS OF POST INSTALLATION DETAILS SEE SHEET NO. 2 OF 9. GALVANIZATION OF POSTS WILL NOT BE REQUIRED.
TYPE 1 PORTABLE	SKID FOLD-UP STAND	RIGID	5' RURAL UNDIVIDED HIGHWAYS 7' RURAL DIVIDED HIGHWAYS 7' URBAN HIGHWAYS	PERMITTED ONLY WHERE POST MOUNTING IS NOT FEASIBLE.	SYSTEMS SHALL COMPLY WITH CRASH TEST REQUIREMENTS OF NCHRP 350 TEST LEVEL 3 AND MAY BE PLACED ADJACENT TO OR WITHIN THE ROADWAY PROVIDED A MINIMUM LATERAL CLEARANCE OF 3 FEET, MEASURED HORIZONTALLY FROM THE EDGE OF THE SIGN TO THE EDGE OF DESIGNATED TRAVELED WAY, IS MAINTAINED.
TYPE 2 PORTABLE	EASEL FOLD-UP STAND SELF-DRIVING POST TYPE III MOVABLE BARRICADE SKID	FLEXIBLE RIGID	12" (4)	PERMITTED ONLY FOR INSTALLATION UP TO 3 DAYS(5). WHERE SIGNS ARE OBSCURED BY OTHER OBJECTS (I.E., TRAFFIC CONTROL DEVICES, PARKED VEHICLES, BARRIER, VEGETATION, ETC.) OR INSTALLED ON MULTI-LANE UNDIVIDED FACILITIES OR MULTI-LANE DIVIDED FACILITIES WITH 3 OR MORE LANES IN ONE DIRECTION, MOUNTING HEIGHTS SHALL BE AS SPECIFIED FOR POST-MOUNTED SIGNS.	SYSTEMS SHALL COMPLY WITH CRASH TEST REQUIREMENTS OF NCHRP 350 TEST LEVEL 3 AND MAY BE PLACED ADJACENT TO OR WITHIN ROADWAY PROVIDED A MINIMUM LATERAL CLEARANCE OF 3 FEET, MEASURED HORIZONTALLY FROM THE EDGE OF THE SIGN TO THE EDGE OF THE DESIGNATED TRAVELED WAY, IS MAINTAINED.
BARRIER	CONCRETE TRAFFIC BARRIER GUARDRAIL	FLEXIBLE RIGID	5' RURAL UNDIVIDED HIGHWAYS 7' RURAL DIVIDED HIGHWAYS 7' URBAN HIGHWAYS	PERMITTED ONLY WHERE LONGITUDINAL BARRIER IS PRESENT.	SYSTEMS SHALL PROVIDE POSITIVE CONNECTION TO THE BARRIER AND MINIMIZE POTENTIAL FOR VEHICLE SNAGGING.
VEHICLE	PAVEMENT MARKING EQUIPMENT PILOT CAR PROTECTIVE VEHICLE	FLEXIBLE RIGID	48" (6)	PERMITTED ONLY IN PILOT CAR OR MOVING OPERATIONS.	

- (3) MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.
- (4) MOUNTING HEIGHTS FOR REGULATORY AND GUIDE SIGNS SHALL BE AS SPECIFIED FOR POST-MOUNTED SIGNS.
- (5) SIGNS MOUNTED ON TYPE III BARRICADES, CORE EXIT SIGN, AND SIGNS FOR CROWWALK/SIDEWALK CLOSURES MAY BE LEFT IN PLACE FOR MORE THAN 3 DAYS.
- (6) DEVIATIONS AS APPROVED BY THE ENGINEER.

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- (1) EDGE OF TRAVELED WAY WHERE THERE IS NO PAVED OR STABILIZED SHOULDER.
- (2) ONE-FOOT LESS THAN MOUNTING HEIGHT NOTED IN TABLE A.



HEIGHT AND LATERAL LOCATIONS FOR POST AND PORTABLE SIGN MOUNTING

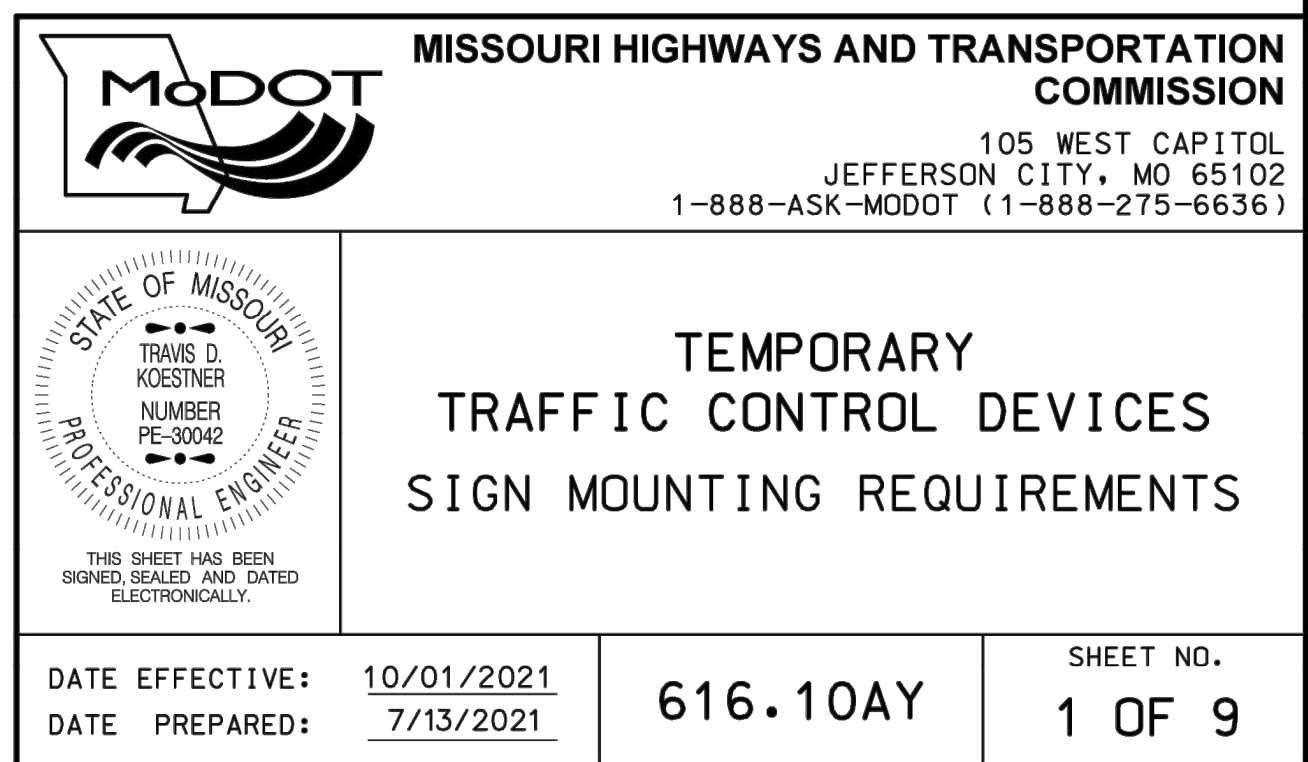
GENERAL NOTES:

LONGITUDINAL SPACING OF SIGNS SHOWN IN THE PLANS ARE PREFERRED MINIMUMS, BUT MAY BE ADJUSTED TO MEET EXISTING FIELD CONDITIONS WITH APPROVAL FROM THE ENGINEER.

SIGNS SHALL NOT BE MOUNTED IN OR ON CHANNELIZERS.

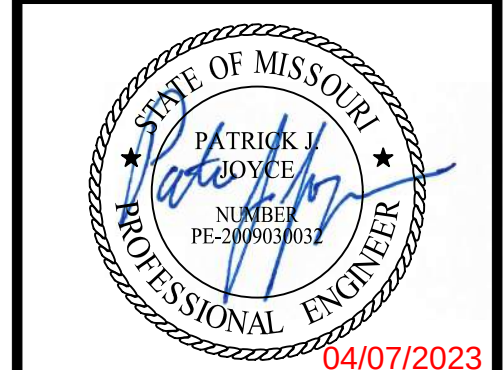
ALL POSTS AND SIGNS SHALL BE INSTALLED AND MAINTAINED
IN A PLUMB POSITION.

CONSTRUCTION SIGNS SHALL NOT BE LOCATED ON SIDEWALKS,
BICYCLE LANES, OR AREAS DESIGNATED FOR PEDESTRIAN OR
BICYCLE TRAFFIC.



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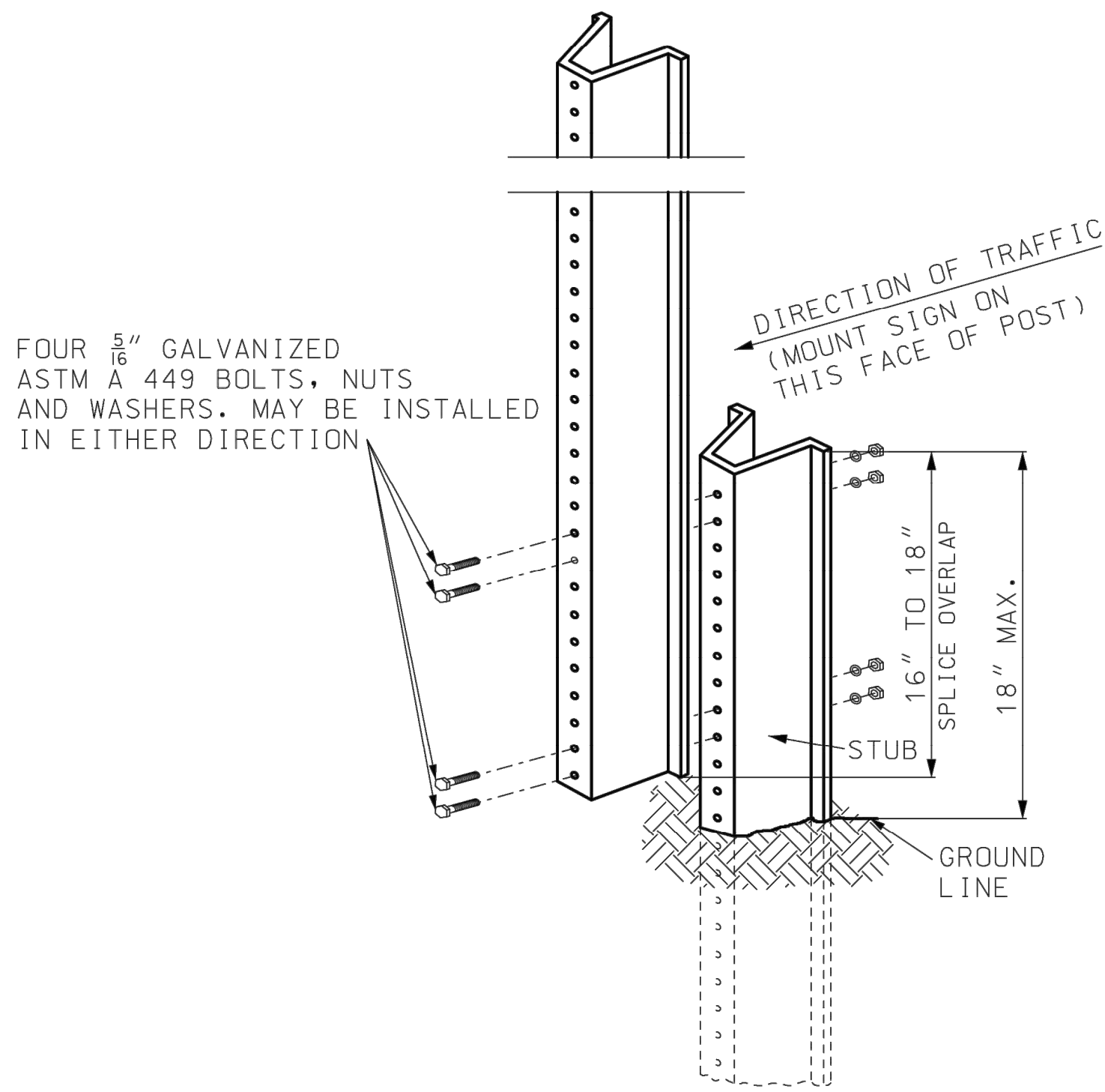
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MODOT STATE HWY 150 WIDENING
TRAFFIC CONTROL
DETAILS-1
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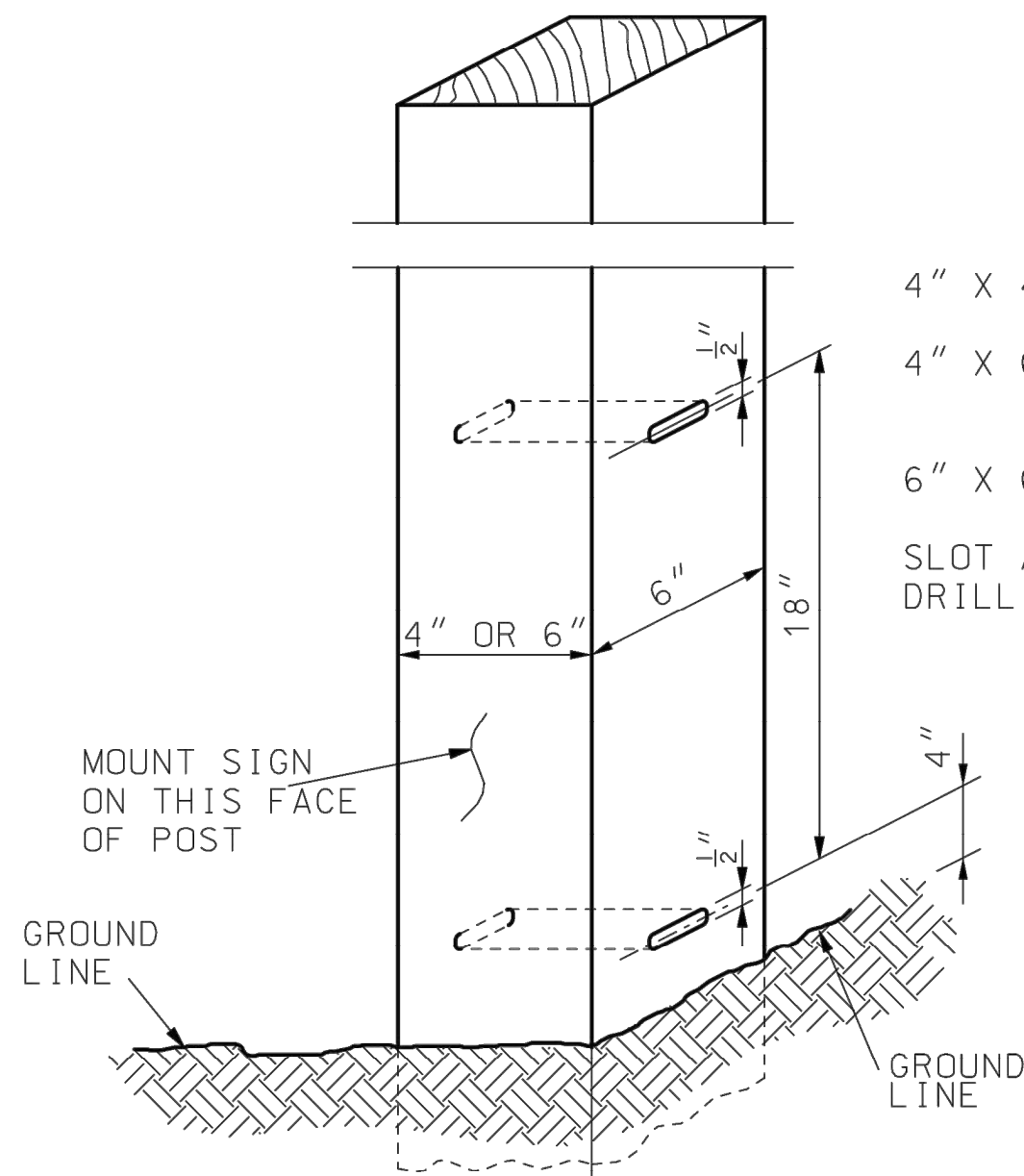
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U-CHANNEL POST DETAIL



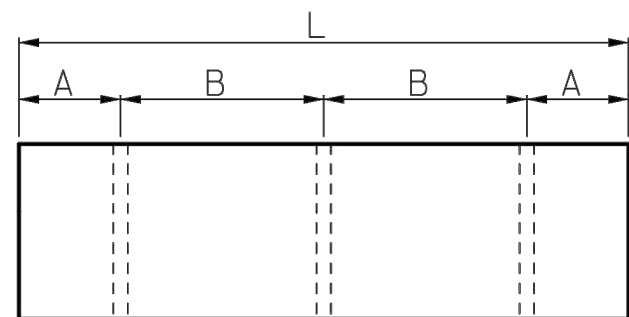
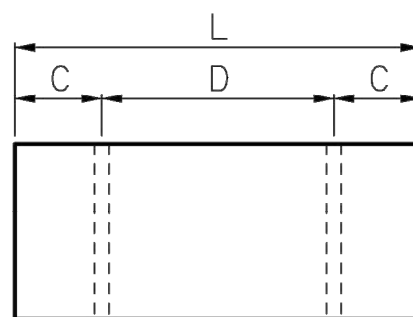
WOOD POST DETAIL

USE OF SPLICE IS OPTIONAL.

SPLICE OVERLAP SHALL BE POSITION ENTIRELY BETWEEN GROUND LINE AND 18" ABOVE GROUND LINE.

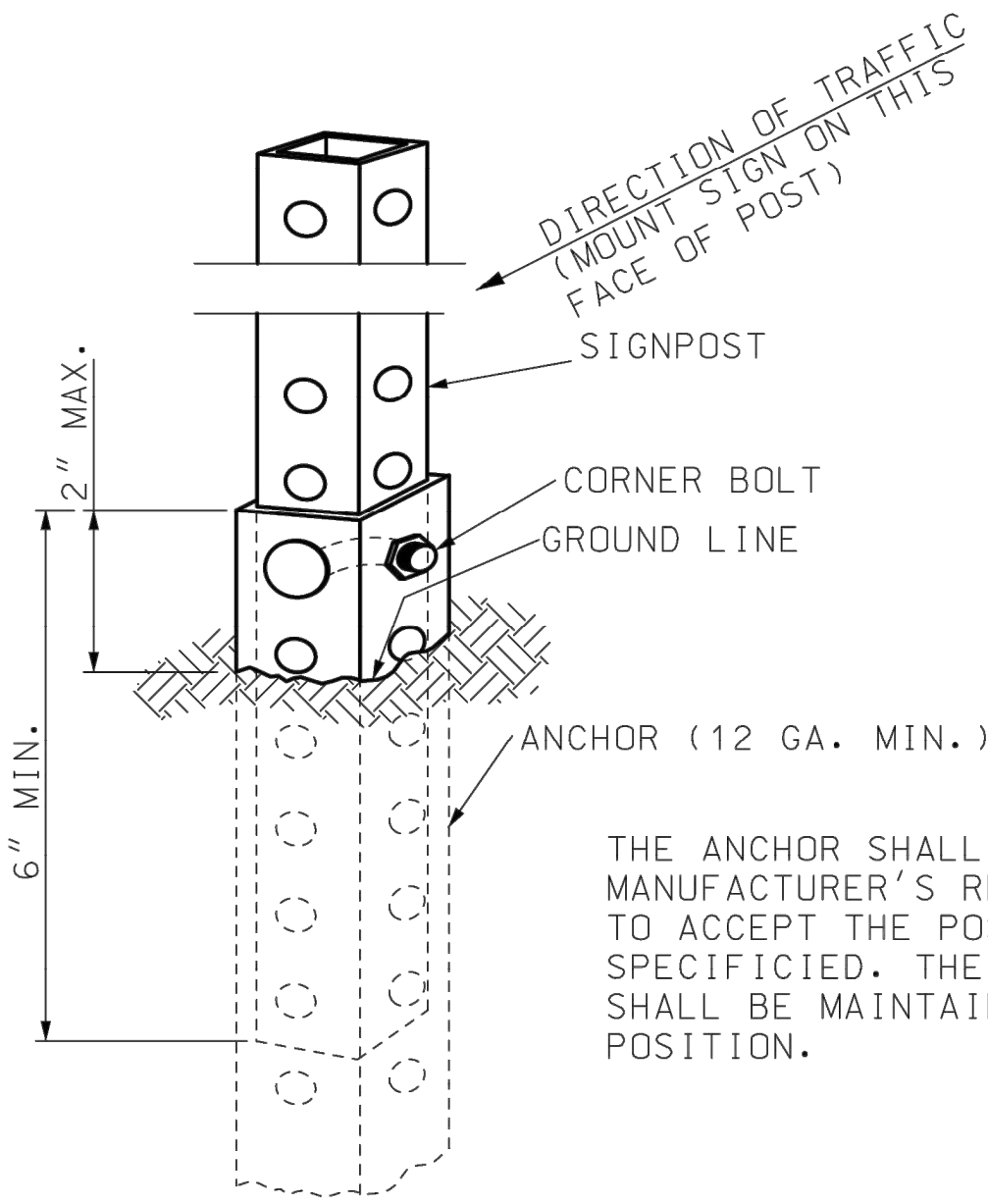
* IF A PLAQUE IS USED, NEITHER THE SIGN NOR PLAQUE SHALL BE POSITIONED WITHIN THE SPLICE OVERLAP AREA.

ONLY ONE SPLICE WILL BE ALLOWED PER POST.



A = 1/6(L) C = 1/5(L)
B = 1/3(L) D = 3/5(L)

POST SPACING



PERFORATED SQUARE STEEL TUBE POST DETAIL

THE SIGN POST MAY BE ATTACHED TO THE ANCHOR WITH A CORNER BOLT OR STRAIGHT BOLT PER MANUFACTURER'S SPECIFICATION.

GENERAL NOTES:

ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 3 FEET.

SIGN INSTALLATION DETAILS SHOWN SHALL APPLY TO ALL POSTS IN A MULTI-POST INSTALLATION.

AT THE ENGINEERS DISCRETION A FLUORESCENT PAINT SHALL BE APPLIED HEAVILY TO BOTH SIDES OF U-CHANNEL POST STUB FOR A LENGTH OF AT LEAST 6 INCHES BELOW THE TOP OF THE STUB.

SIGN AREA (SQ. FT.)	POST TYPE		
	U-CHANNEL	WOOD	PERFORATED SQUARE STEEL TUBING
≤ 10	1 - 3.0 LB./FT.*	1 - 4" X 4"*	1 - 2" 12 GA.*
> 10 ≤ 16	2 - 3.0 LB./FT.	2 - 4" X 4" 1 - 4" X 6"*	2 - 2" 12 GA. 1 - 2 1/2" 12 GA.
> 16 ≤ 24	2 - 3.0 LB./FT.	2 - 4" X 6"	3 - 2" 12 GA.*
> 24 ≤ 32	3 - 3.0 LB./FT.	2 - 4" X 6"	N/A
> 30 ≤ 50	N/A	2 - 6" X 6"	N/A

* SIGNS GREATER THAN 4 FEET IN WIDTH, EXCEPT DIAMOND SHAPE SIGNS, REQUIRE TWO POSTS.

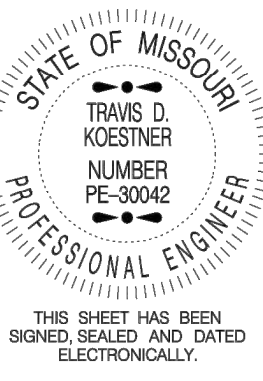
** REQUIRES SLIP BASE PER MANUFACTURER'S RECOMMENDATION.

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JEFFERSON CITY, MO 65102
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STATE OF MISSOURI
TRAVIS D. KOESTNER
NUMBER PE-30042
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

TEMPORARY
TRAFFIC CONTROL DEVICES
POST INSTALLATION DETAILS

DATE EFFECTIVE: 10/01/2021
DATE PREPARED: 7/13/2021

616.10AY

SHEET NO.
2 OF 9



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0	INITIAL SUBMISSION	JGD	04/07/22
1	PER MODOT COMMENT	JGD	09/13/22
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		JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

TRAFFIC CONTROL
DETAILS-2

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



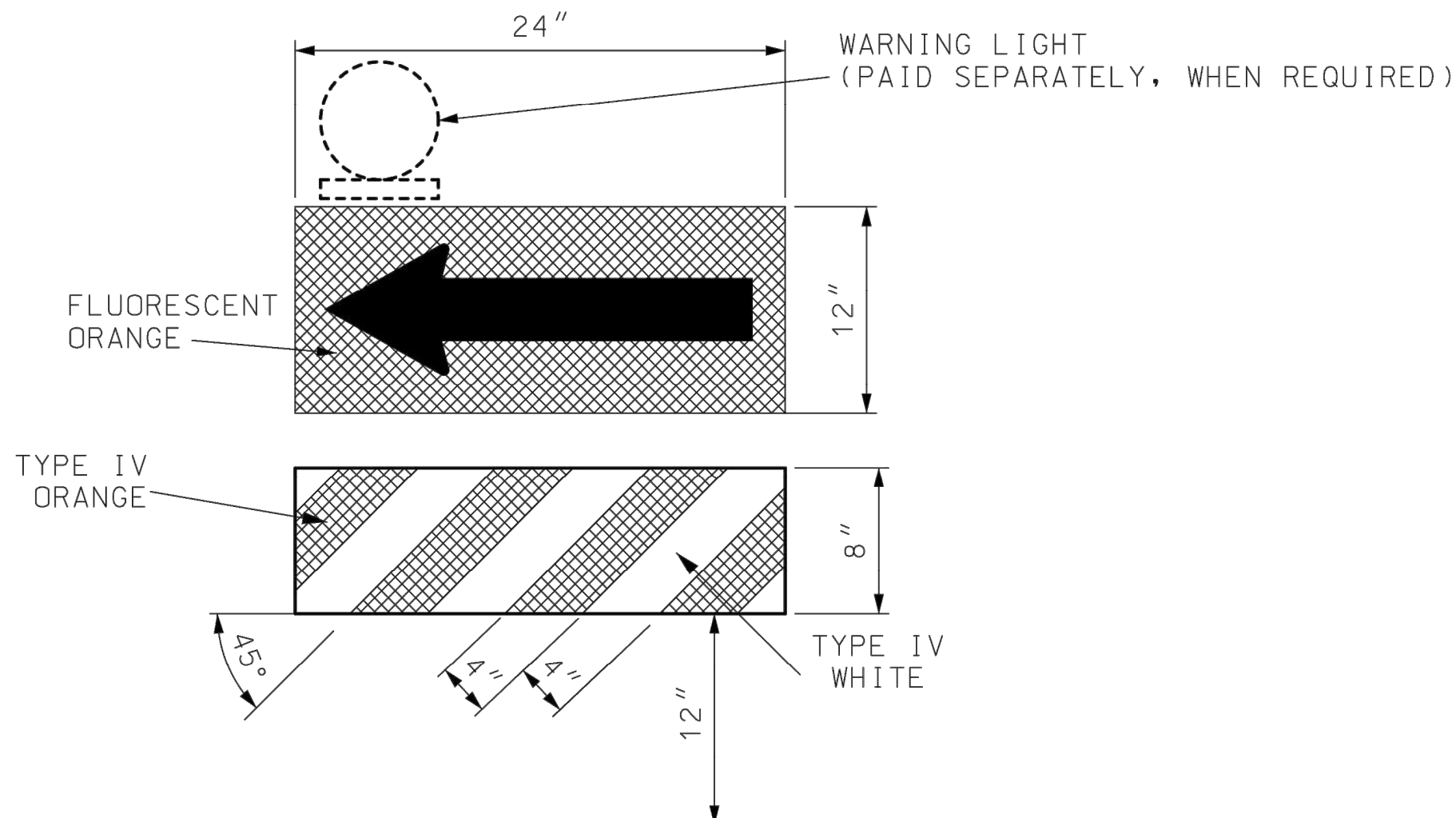
STATE OF MISSOURI
PATRICK J. JOYCE
NUMBER PE-200903032
PROFESSIONAL ENGINEER

04/07/2023

SHEET NUMBER

34
34 OF 66

Apr 07, 2023 - 2:03pm Plotted By: Jfield G:\Shared drives\K010 - Land Development\Projects\2023\21K010060 Cobey Creek Residential\01 CIVIL\03-DWG\Sheet\ModOT 150 HWY WIDENING\21K010060-QIV-STD1-2.dwg Layout: TRAF. CTL DET-3

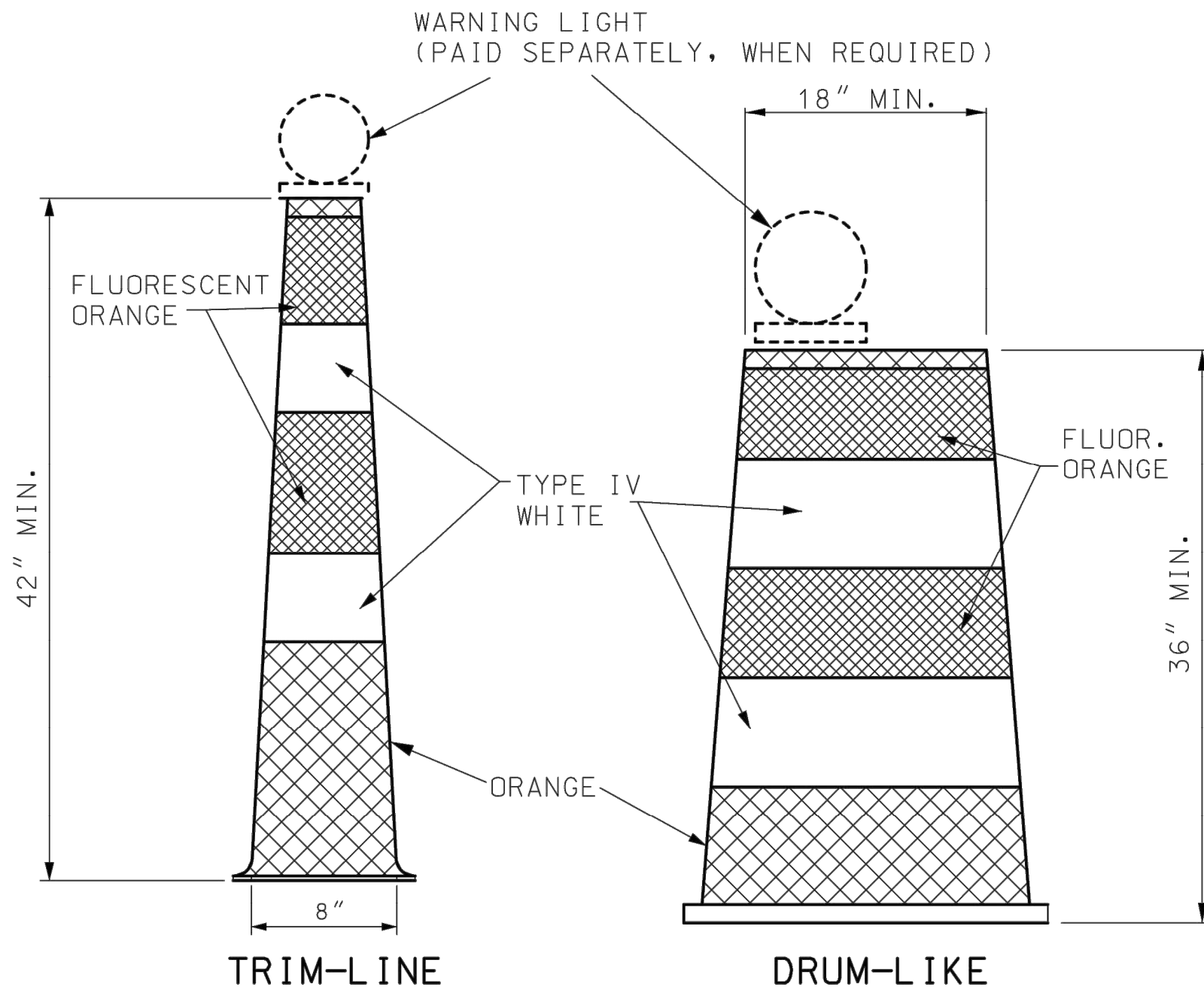


DIRECTION INDICATOR BARRICADE

VERTICAL DIMENSIONS DO NOT INCLUDE PROJECTIONS DESIGNED FOR EASE OF HANDLING.

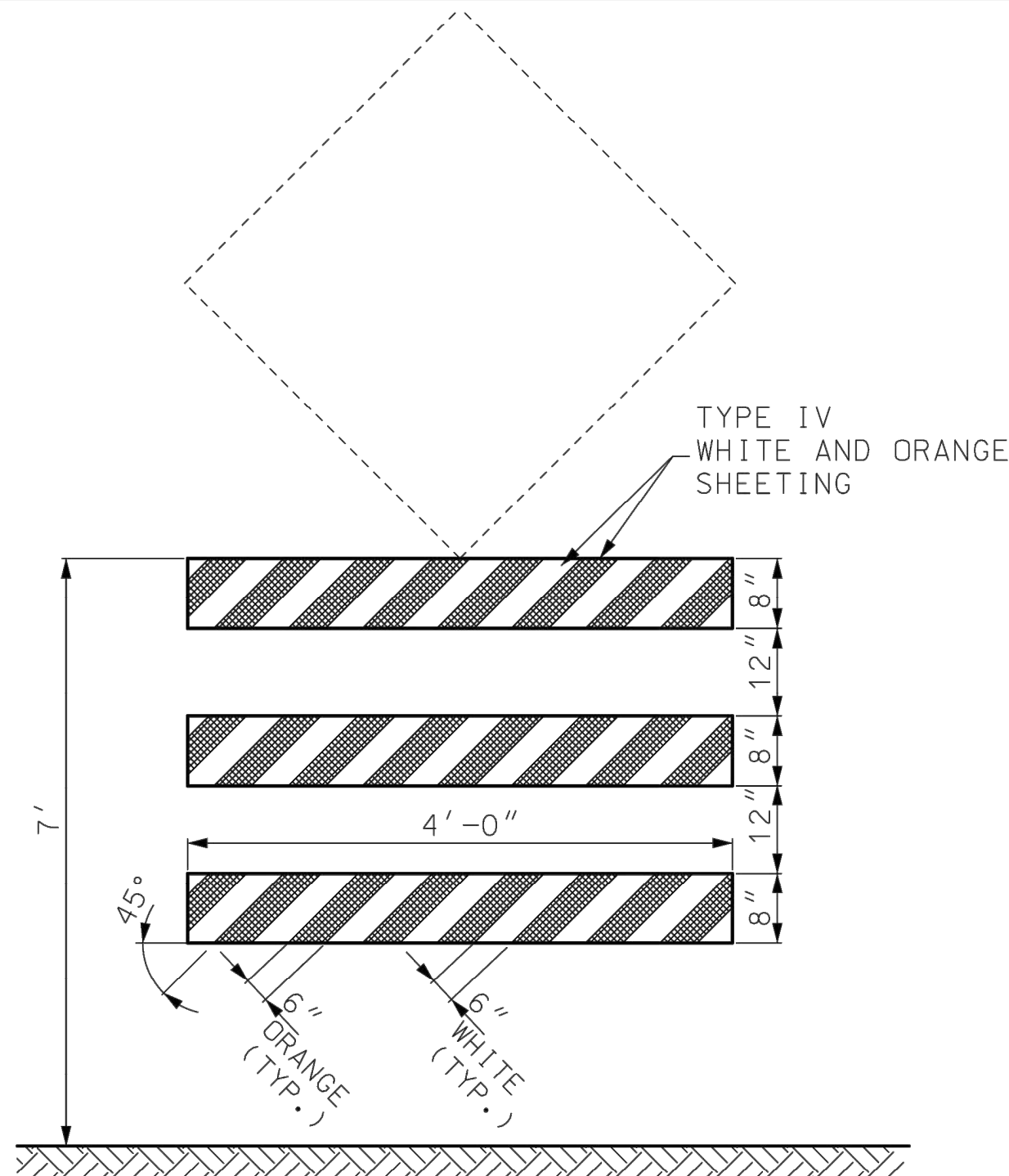
DIRECTION INDICATOR BARRICADES SHALL NOT BE USED IN SHIFTING TAPERS UNLESS SHOWN ON THE PLANS.

THE PANELS SHALL BE SECURELY ATTACHED TO A SUPPORT THAT IS PORTABLE, CAPABLE OF REMAINING UPRIGHT AND ENTIRELY FREE STANDING.



WHITE, ORANGE, AND FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL BE IN ACCORDANCE WITH SEC 1042.2.7.3.

STRIPES ON TRIM-LINE CHANNELIZERS SHALL BE 6" TO 8".
STRIPES ON DRUM-LIKE CHANNELIZERS SHALL BE 4" TO 6".



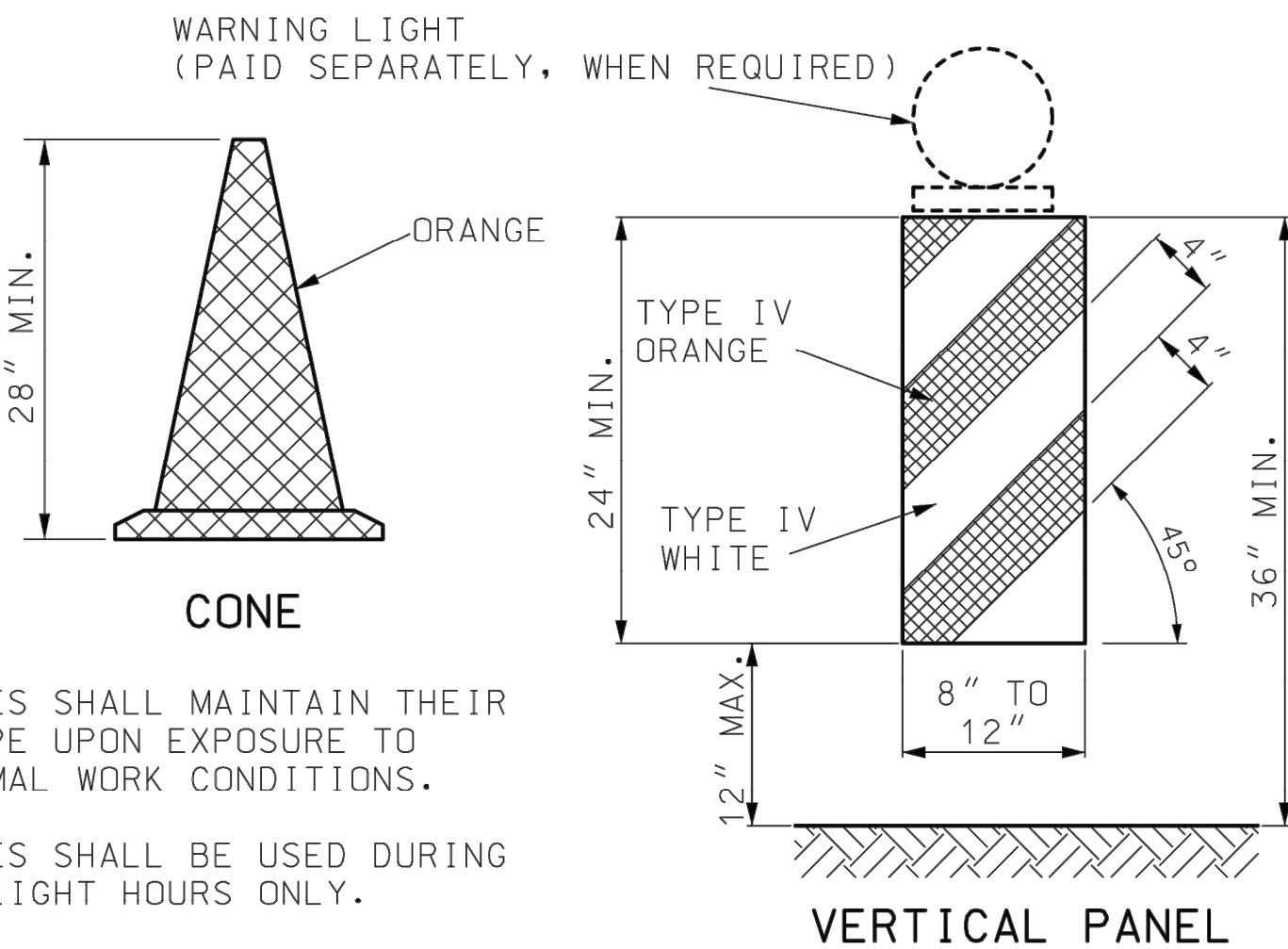
ADVANCE WARNING RAIL SYSTEM

MAXIMUM WEIGHT OF SIGN SHALL NOT EXCEED 25 LBS.

THE SIGN AND RAIL SYSTEM MAY BE MOUNTED AS TWO SEPARATE CRASHWORTHY DEVICES. THE RAIL SYSTEM SHALL BE LOCATED DIRECTLY IN FRONT OF THE SIGN WITH 7 TO 10 FEET SEPARATING THE TWO DEVICES.

WHERE MARKING IS NOT PROVIDED ON THE BACKSIDE, STRIPS OF 3" WIDE MODOT TYPE 7 ORANGE SHEETING MAY BE APPLIED TO THE ENDS OF EACH RAIL TO HELP DELINEATE THE DEVICE.

WHITE AND ORANGE REFLECTIVE SHEETING SHALL BE IN ACCORDANCE WITH SEC 1042.2.7.4.



CONES SHALL MAINTAIN THEIR SHAPE UPON EXPOSURE TO NORMAL WORK CONDITIONS.

CONES SHALL BE USED DURING DAYLIGHT HOURS ONLY.

VERTICAL PANELS SHALL BE SECURELY ATTACHED TO A SUPPORT THAT IS PORTABLE, CAPABLE OF REMAINING UPRIGHT AND ENTIRELY FREE STANDING.

GENERAL NOTES:

WHITE, ORANGE, AND FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL BE IN ACCORDANCE WITH SEC 1042.2.7.

BALLAST FOR TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUFACTURERS' RECOMMENDATION FOR FIELD CONDITIONS WHEN APPLICABLE.

IF USED, THE WARNING LIGHT UNIT AND BATTERY COMPARTMENT SHALL BE FURNISHED BY THE DEVICE MANUFACTURER OR OTHERWISE MEET THE MANUFACTURER'S RECOMMENDATIONS FOR DESIGN AND WILL BE REQUIRED ON ALL DEVICES IN THE SERIES.

WARNING LIGHTS SHALL BE IN ACCORDANCE WITH SEC 1063.5.

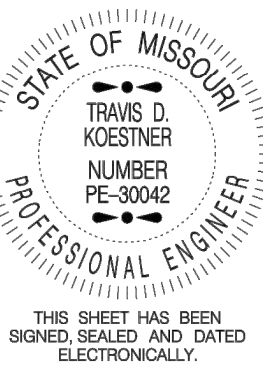
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY, AT NO ADDITIONAL COST, USE DRUM-LIKE CHANNELIZERS IN LIEU OF TRIM-LINE CHANNELIZERS TO PROVIDE LONGITUDINAL CHANNELIZATION WITHIN THE ACTIVITY AREA WHERE NO RAMPS, INTERSECTIONS OR LIMITED LATERAL CLEARANCE EXISTS.

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY, AT NO ADDITIONAL COST, USE DIRECTION INDICATOR BARRICADES IN LIEU OF TRIM-LINE CHANNELIZERS IN MERGING TAPERS.

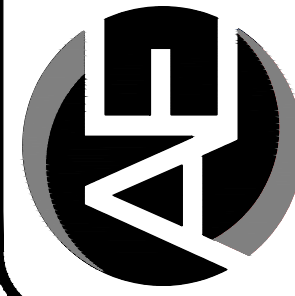
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY, AT NO ADDITIONAL COST, USE VERTICAL PANELS IN LIEU OF TRIM-LINE CHANNELIZERS TO PROVIDE LONGITUDINAL CHANNELIZATION WITHIN THE ACTIVITY AREA.

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY, AT NO ADDITIONAL COST, USE CONES IN LIEU OF TRIM-LINE CHANNELIZERS DURING DAYTIME OPERATIONS ON MINOR ROUTES.

PANEL AND RAIL MARKINGS FOR TRAFFIC DELINEATION SHALL SLOPE DOWNWARD TOWARD THE INTENDED DIRECTION OF TRAVEL. ILLUSTRATIONS SHOWN ARE FOR INSTANCES WHERE TRAFFIC MOVES TO THE LEFT. REVERSE CONFIGURATIONS SHALL BE USED FOR TRAFFIC MOVEMENTS TO THE RIGHT. MARKINGS SHALL ONLY BE APPLIED TO THE FRONT OF EACH RAIL OR PANEL, OR MAY BE APPLIED TO BOTH THE FRONT AND BACK PROVIDING THE MARKING ON THE BACK DOES NOT CONFLICT WITH INTENDED OPPOSING TRAFFIC MOVEMENT.

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 STATE OF MISSOURI TRAVIS D. KOESTNER NUMBER PE-30042 PROFESSIONAL ENGINEER THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.		TEMPORARY TRAFFIC CONTROL DEVICES CHANNELIZERS AND DIRECTION INDICATOR BARRICADE	
DATE EFFECTIVE: 10/01/2021 DATE PREPARED: 7/13/2021		616.10AY	SHEET NO. 3 OF 9

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3	PER MODOT COMMENT	JGD	07/19/23
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COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

TRAFFIC CONTROL DETAILS-3

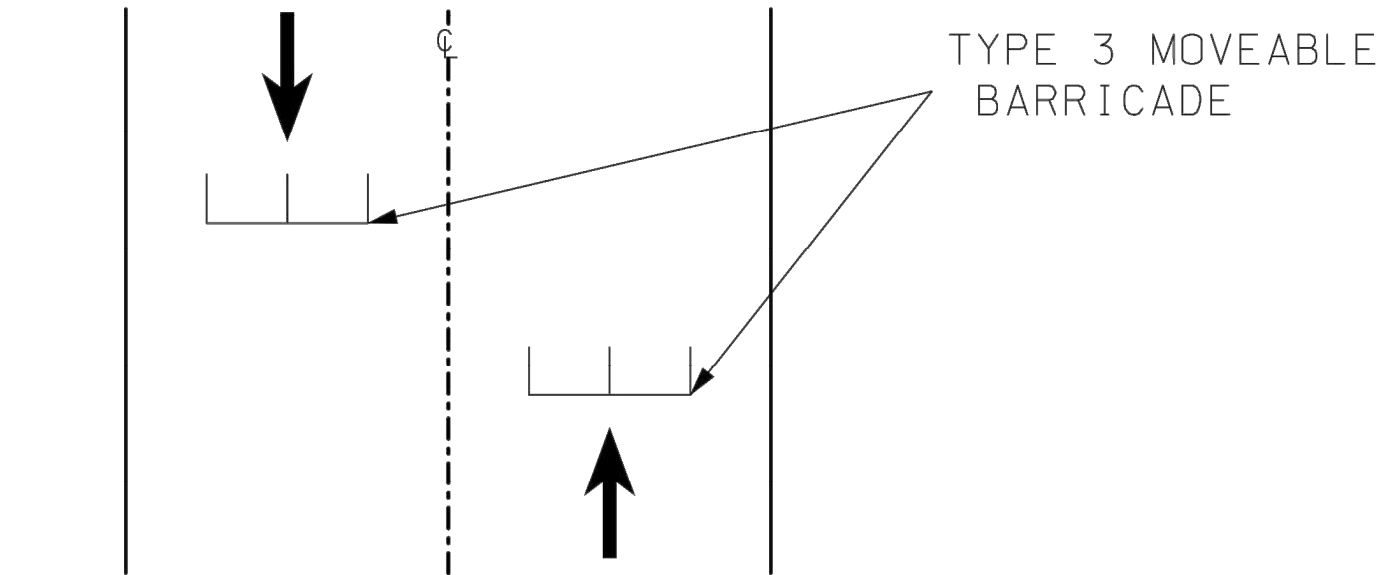
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

**STATE OF MISSOURI**
PATRICK J. JOYCE
NUMBER PE-200903032
PROFESSIONAL ENGINEER
04/07/2023

SHEET NUMBER

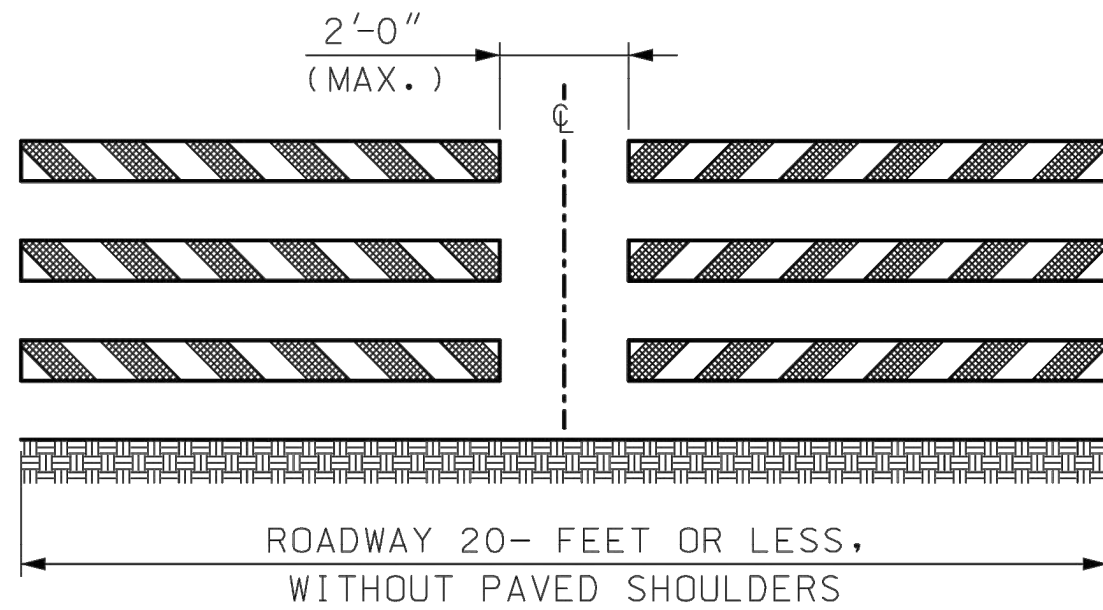
35
35 OF 66

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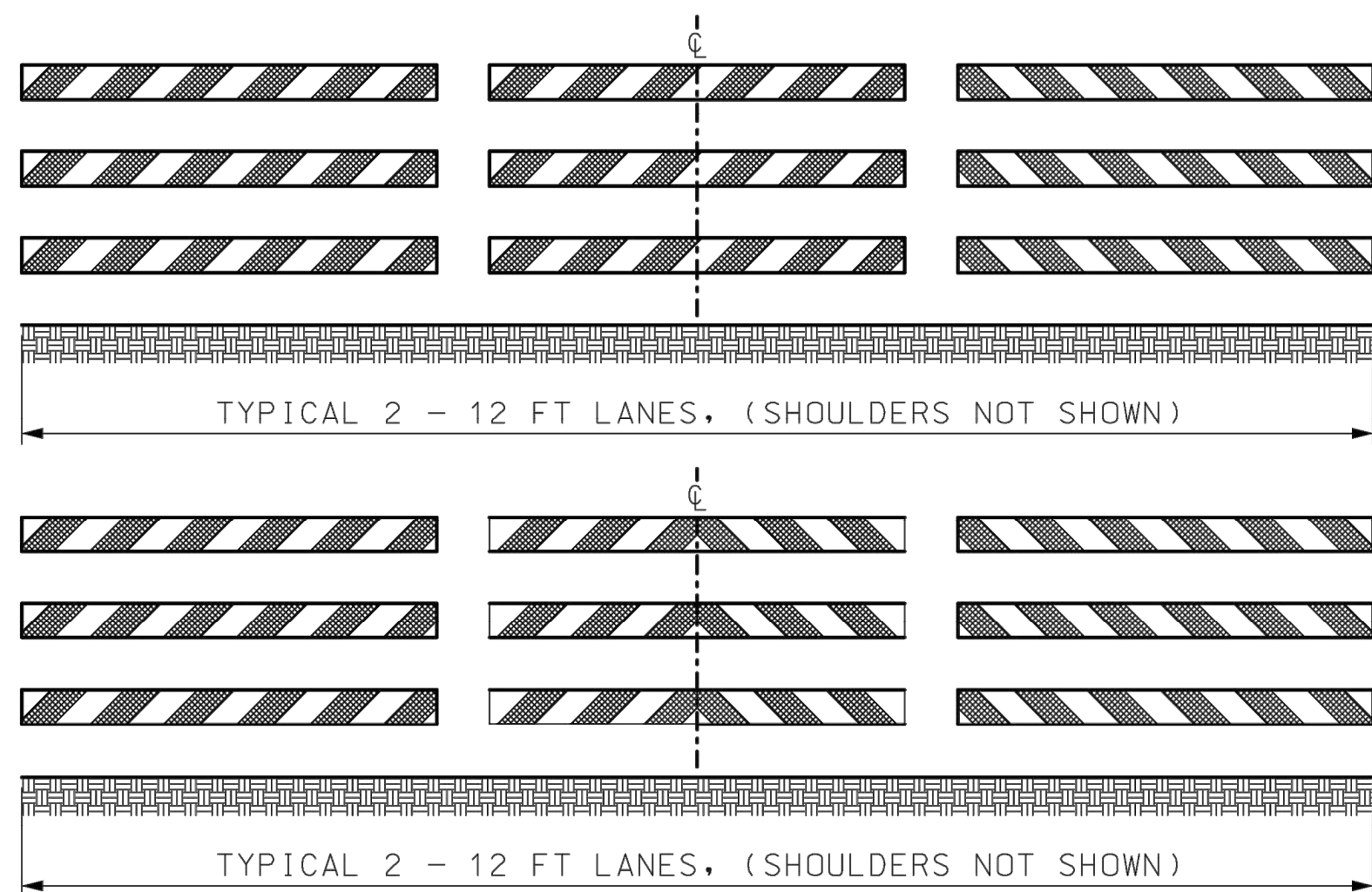


RETROREFLECTIVE MARKING ON TYPE 3 BARRICADES SHALL BE ON BOTH SIDES OF EACH RAIL AND DIRECT TRAFFIC MOVEMENT APPROPRIATELY TO ALLOW VEHICLES TO PASS THROUGH

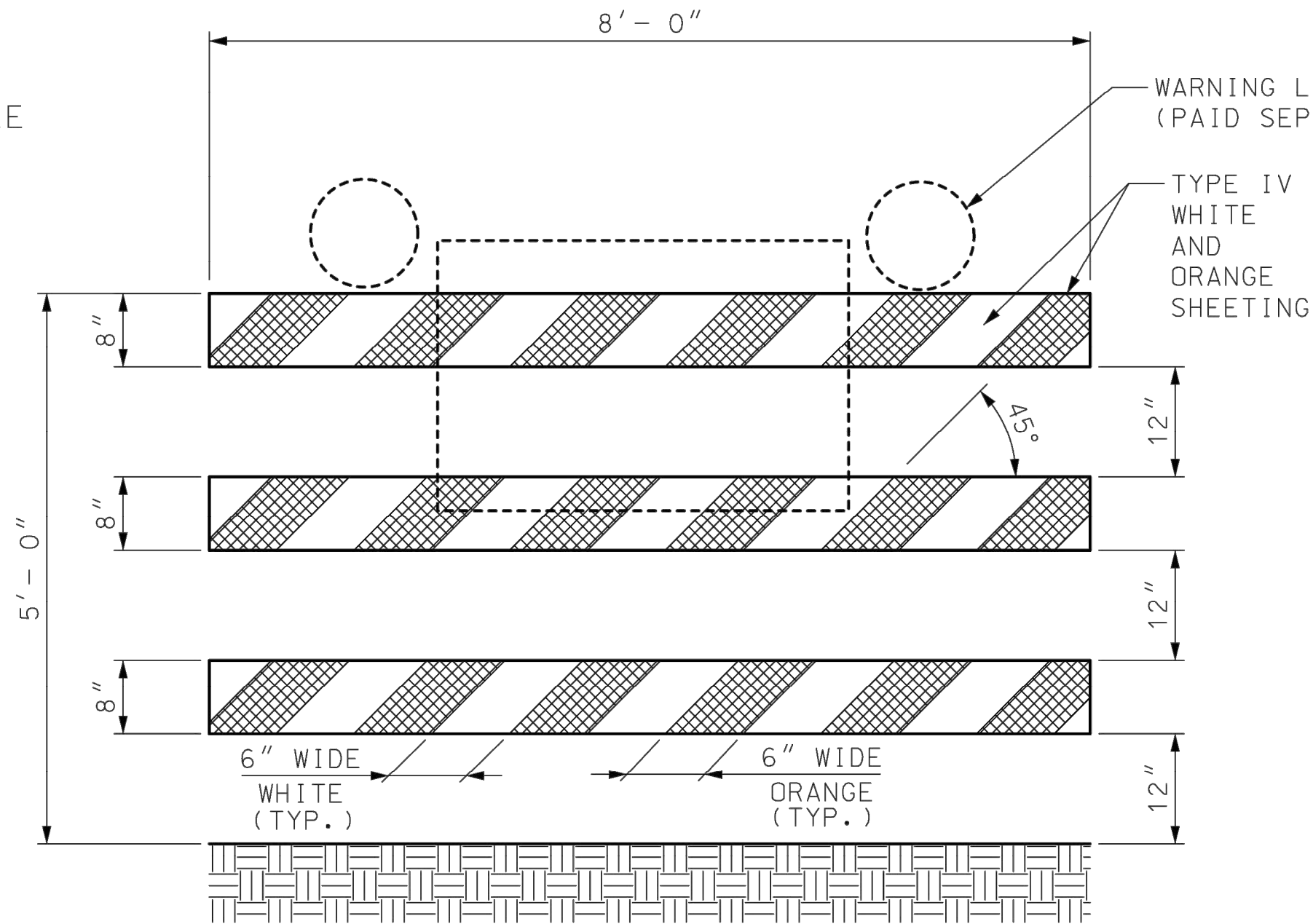
SOFT CLOSURE
PLAN VIEW



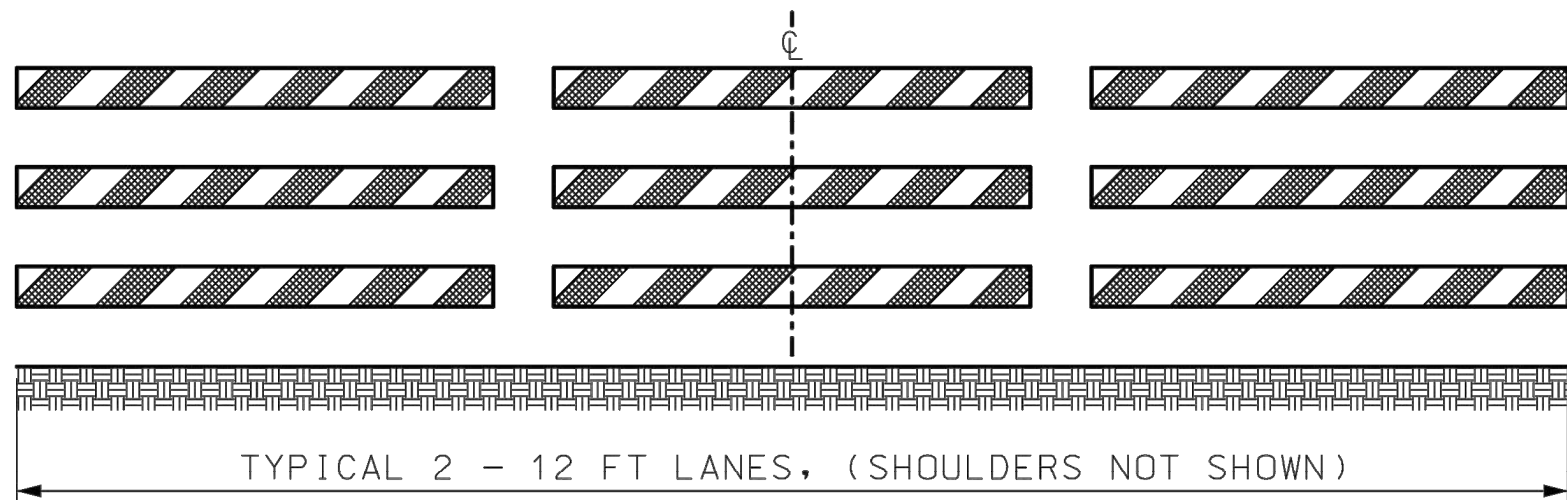
EXAMPLE 2



EXAMPLE 4

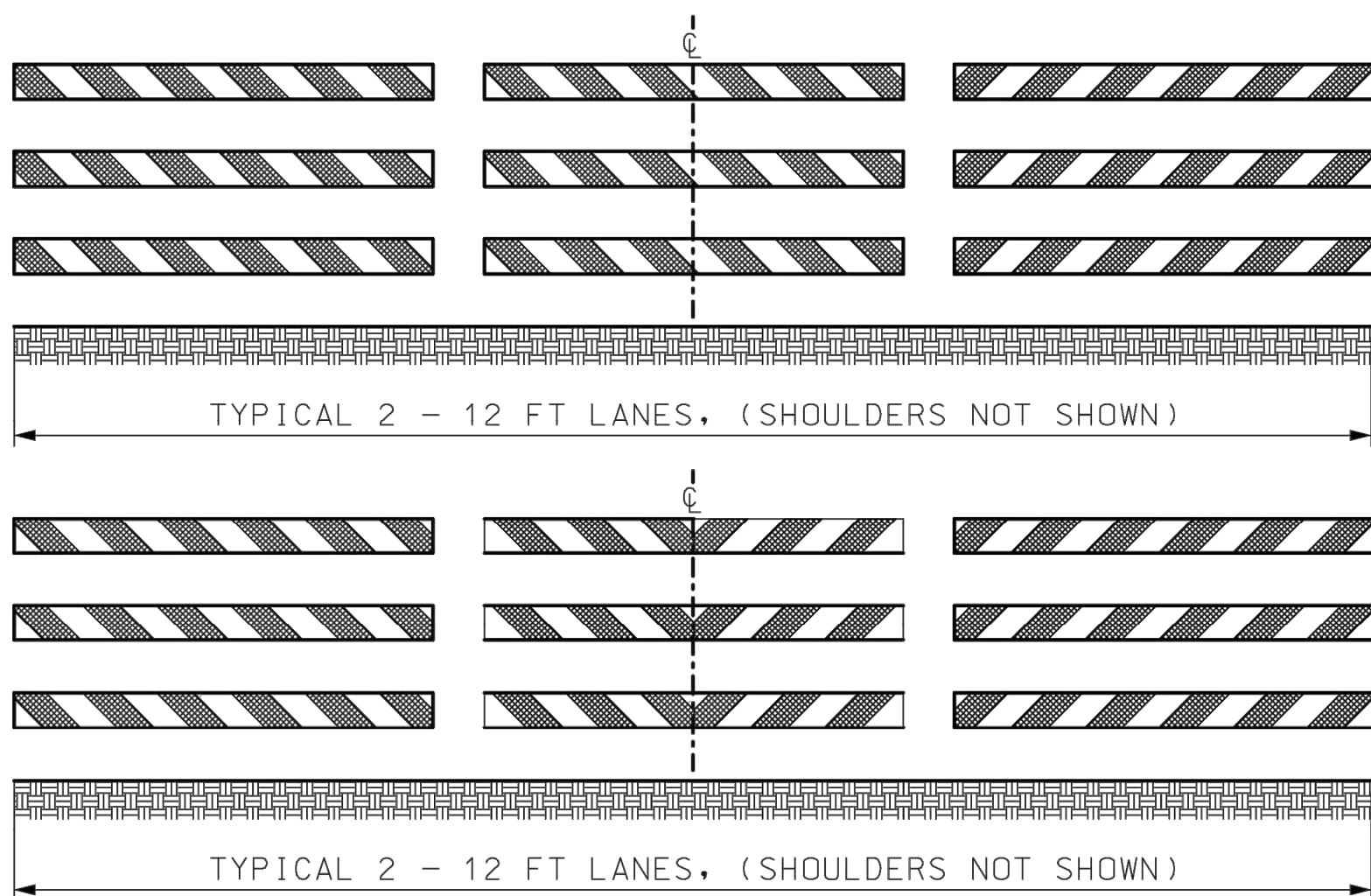


EXAMPLE 1



EXAMPLE SHOWS STRIPES SLOPING TO DIRECT VEHICULAR MOVEMENT TOWARD THE LEFT

EXAMPLE 3



EXAMPLE 5

EXAMPLE 1 - ONE TYPE 3 MOVABLE BARRICADE WILL BE REQUIRED TO COMPLETELY CLOSE EACH 8' OF PAVEMENT. PAVED SHOULDERS SHALL BE INCLUDED IN THE AREA TO BE CLOSED.

SIGNS SHALL BE LIGHT WEIGHT (ROLL-UP OR PLASTIC) AND SHOULD NOT OBSCURE MORE THAN 50 PERCENT OF THE TOP 2 RAILS OR 33 PERCENT OF ALL THREE RAILS.

WARNING LIGHTS SHALL BE LIGHT WEIGHT (3.3 LBS. OR LESS) OR HAVE BATTERY PACK MOUNTED NO HIGHER THAN 18-INCH AND SHALL NOT COVER ANY PORTION OF THE BARRICADE FACE.

IF WARNING LIGHTS ARE USED, THE LIGHTS SHOULD BE INSTALLED ON THE BARRICADES IN THE DIRECTION OF TRAFFIC.

IF SIGNS OR LIGHTS CANNOT MEET THE ABOVE REQUIREMENTS, THEY SHALL BE MOUNTED ON SEPARATE CRASHWORTHY DEVICES AT HEIGHTS SPECIFIED FOR POST MOUNTED SIGNS, LOCATED IN TABLE A ON SHEET 1. THE BARRICADE SHALL BE LOCATED IN FRONT OF THE SIGNS OR LIGHTS WITH 7 TO 10 FEET SEPARATING THE DEVICES.

TYPE 3 MOVABLE BARRICADES SHALL BE ENTIRELY FREE STANDING AND PORTABLE. MARKING SHALL ONLY BE APPLIED TO THE FRONT OF EACH RAIL OR MAY BE APPLIED TO BOTH THE FRONT AND THE BACK OF EACH RAIL PROVIDED THE MARKING ON THE BACK DOES NOT CONFLICT WITH INTENDED OPPOSING TRAFFIC MOVEMENT.

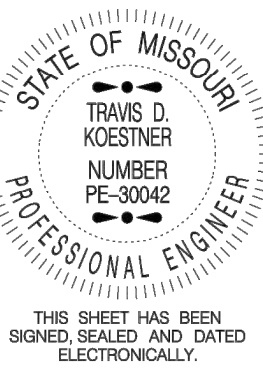
WHITE AND ORANGE REFLECTIVE SHEETING SHALL BE IN ACCORDANCE WITH SEC 104.2.7.4.

EXAMPLE 2 - FOR PAVED ROADWAYS WITH A WIDTH OF 20- FEET OR LESS AND WITHOUT PAVED SHOULDERS, TWO BARRICADES ARE ACCEPTABLE.

EXAMPLE 3 - WHERE BARRICADES EXTEND ENTIRELY ACROSS A ROADWAY, STRIPES SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH ROAD USERS MUST TURN.

EXAMPLE 4 - WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED, STRIPES SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE OR BARRICADES.

EXAMPLE 5 - WHERE NO TURNS ARE INTENDED, STRIPES POSITIONED TO SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES.

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	TEMPORARY TRAFFIC CONTROL DEVICES TYPE 3 MOVABLE BARRICADE	
DATE EFFECTIVE: 10/01/2021 DATE PREPARED: 7/13/2021	616.10AY	SHEET NO. 4 OF 9

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3	PER MODOT COMMENT	JGD	07/19/23	LICENSE NO.	PE-2008030032
4	PER MODOT COMMENT	JGD	04/07/23	DATE:	04/07/22
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				JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

TRAFFIC CONTROL
DETAILS-4

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

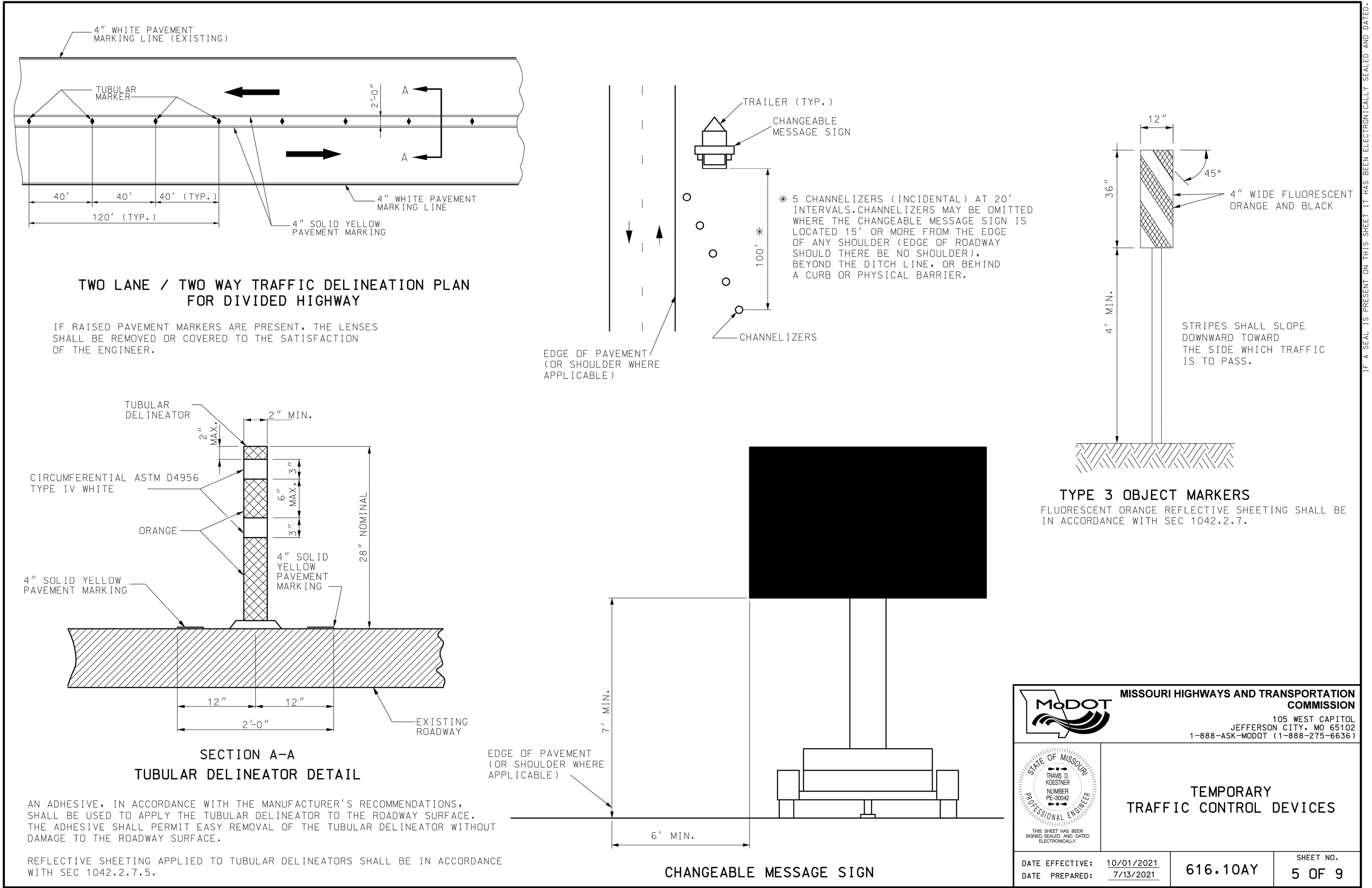


PATRICK J. JOYCE
NUMBER PE-200903032
04/07/2023

SHEET NUMBER

36
36 OF 66

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MODOT STATE HWY 150 WIDENING

TRAFFIC CONTROL
DETAILS-5

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LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER
PE-2009030032
PROFESSIONAL ENGINEER
04/07/2023

SHEET NUMBER

37
37 OF 66

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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STATE OF MISSOURI
TRAVIS D. KOESTNER
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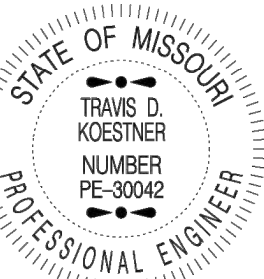
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SHEET NO.
5 OF 9

WARNING SIGNS							
SIGN	SIZE (IN.)	AREA (SQ. FT.)	SHEETING	COLOR		DESIGNATION	DESCRIPTION
				SYM. LEG. BKG.	BACK GROUND		
W01-1L	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS) (2)
W01-4bR	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS) (2)
W01-4cL	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS) (2)
W01-4cR	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS) (2)
W01-6	60X30	12.50	ASTM 9 OR 11	BK	FL. OR	SHF	HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00	ASTM 9 OR 11	BK	FL. OR	SHF	HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE) (1)
W01-7	60X30	12.50	ASTM 9 OR 11	BK	FL. OR	SHF	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00	ASTM 9 OR 11	BK	FL. OR	SHF	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE))(1)
W01-8	18X24	3.00	ASTM 9 OR 11	BK	FL. OR	SHF	CHEVRON (SYMBOL)
W01-8a	30X36	7.50	ASTM 9 OR 11	BK	FL. OR	SHF	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	STOP AHEAD (SYMBOL)
W03-2	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	BE PREPARED TO STOP
W03-5	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SPEED LIMIT AHEAD
W04-1L	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	MERGE (SYMBOL FROM RIGHT)
W04-1a(L)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	MERGE (ARROW SYMBOL) (3)
W04-1a(R)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	MERGE (ARROW SYMBOL) (3)
W05-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	ROAD/BRIDGE/RAMP NARROWS (4)
W05-3	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	ONE LANE BRIDGE
W05-5	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	NARROW LANES (3)
W06-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	BUMP
W08-2	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	DIP
W08-3	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	PAVEMENT ENDS
W08-4	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SOFT SHOULDER
W08-5	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TRUCK ENTRANCE (3)
W08-7a	36X36	9.00	ASTM 9 OR 11	BK	FL. OR	SHF	FRESH OIL/LOOSE GRAVEL (3)
W08-9	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	LOW SHOULDER
W08-11	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	UNEVEN LANES
W08-12	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	NO CENTER LINE
W08-15	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	GROOVED PAVEMENT
W08-15p	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	MOTORCYCLE (PLAQUE)
W08-17(L)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SHOULDER DROP-OFF (SYMBOL LEFT)
W08-17(R)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SHOULDER DROP OFF (SYMBOL RIGHT) (4)
W08-17p	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	SHOULDER DROP-OFF (PLAQUE)
W10-1	42 RND.	9.62	ASTM 9 OR 11	BK	FL. YL	SHF	RAILROAD CROSSING
W012-1	24X24	4.00	ASTM 9 OR 11	BK	FL. OR	SHF	DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00	ASTM 9 OR 11	BK	FL. OR	SHF	LOW CLEARANCE (PLAQUE) (3)
W012-2a	84X24	14.00	ASTM 9 OR 11	BK	FL. OR	SHF	OVERHEAD LOW CLEARANCE (FEET AND INCHES) (3)
W012-4	120X60	50.00	ASTM 9 OR 11	BK	FL. OR	SHF	LOW CLEARANCE XX FT XX IN XX MILES AHEAD (3)
W012-5	120X60	50.00	ASTM 9 OR 11	BK	FL. OR	SHF	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD (3)
W013-1	30X30	6.25	ASTM 9 OR 11	BK	FL. OR	SHF	ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	XXX FEET (PLAQUE)
W016-3	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	X MILE (PLAQUE)
W020-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	ROAD/BRIDGE/RAMP WORK AHEAD (4)
W020-2	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR AHEAD
W020-3	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	ROAD CLOSED AHEAD
W020-4	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	ONE LANE ROAD AHEAD
W020-5	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	RIGHT/CENTER/LEFT LANE CLOSED AHEAD (4)

- (1) SIGN DEPICTION, ARROW, BORDERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA.
- (2) REFER TO THE LATEST EDITION OF MUTCD PART VI BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA FOR SIGN DEPICTION, ARROW, BORDERS AND SPACING SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA.
- (3) ARROW, BORDERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA.
- (4) USE OF A SUPPLEMENTAL PLATE FOR LINE 1 IS ACCEPTABLE.
- (5) PLAQUE AND APPLICABLE REGULATORY SIGN MAY BE MANUFACTURED AS ONE SIGN.
- (6) SHF REFER TO STD. 903.02 SHEET 1 OF 8

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

		MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	TEMPORARY TRAFFIC CONTROL DEVICES WARNING SIGNS		
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.		DATE EFFECTIVE: <u>10/01/2021</u> DATE PREPARED: <u>7/13/2021</u>	SHEET NO. 6 OF 9
		616.10AY	



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REVISIONS				DRAWING INFO.		
NO.	DESCRIPTION	BY	DATE	DRAWN BY:	JGD	
0	INITIAL SUBMISSION	JGD	04/07/22			
1	PER MODOT COMMENT	JGD	09/13/22	CHECK BY:	PJJ	
2	PER MODOT COMMENT	JGD	01/19/23	LICENSE NO.	PE-2009030032	
3	PER MODOT COMMENT	JGD	01/19/23	DATE:	04/07/22	
4	PER MODOT COMMENT	JGD	04/07/23	FIELD BOOK:	FOR REVIEW	
				JOB NUMBER:	21KC10060	
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOOT STATE HWY 150 WIDENING
TRAFFIC CONTROL
DETAILS-6

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

SHEET NUMBER

38
38 OF 66

WARNING SIGNS							
SIGN	SIZE (IN.)	AREA (SQ. FT.)	SHEETING	COLOR		DESIGNATION	DESCRIPTION
				SYM. LEG. BRD.	BACK GROUND		
W020-5a	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD (4)
W020-6a	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	RIGHT/CENTER/LEFT LANE CLOSED (3)(4)
W020-7	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	FLAGGER (SYMBOL) WITH FLAGS
W021-5	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SHOULDER WORK/SHOULDER WORK AHEAD (3)
W021-5a	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	RIGHT SHOULDER CLOSED
W021-5b	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	RIGHT SHOULDER CLOSED AHEAD
W022-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	BLASTING ZONE AHEAD
W022-2	42X36	10.50	ASTM 9 OR 11	BK	FL. OR	SHF	TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50	ASTM 9 OR 11	BK	FL. OR	SHF	END BLASTING ZONE
G022-1	15X21	2.19	ASTM 9 OR 11	BK	FL. OR	SHF	WET PAINT (ARROW PIVOTS) (3)
GUIDE SIGNS							
E05-1	36X48	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	GORE EXIT (3)
E05-2	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	EXIT OPEN (3)
E05-2a	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	EXIT CLOSED
G020-1	60X24	10.00	ASTM 9 OR 11	BK	FL. OR	SHF	ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	ASTM 9 OR 11	BK	FL. OR	SHF	END ROAD WORK
G020-4	36X18	4.50	ASTM 9 OR 11	BK	FL. OR	SHF	PILOT CAR FOLLOW ME - REAR VEHICLE MOUNT SIGN
G020-4a	42X30	8.75	ASTM 9 OR 11	BK	FL. OR	SHF	PILOT CAR IN USE WAIT & FOLLOW - STATE ROUTE SIGN
G020-4a	18X12	1.50	ASTM 9 OR 11	BK	FL. OR	SHF	PILOT CAR IN USE WAIT & FOLLOW - NON-STATE ROUTE SIGN
G020-5aP	36X24	6.00	ASTM 9 OR 11	BK	FL. OR	SHF	WORK ZONE (PLAQUE) (3) (5)
M04-8a	24X18	3.00	ASTM 9 OR 11	BK	FL. OR	SHF	END DETOUR
M04-9L	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR (LEFT ARROW)
M04-9R	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00	ASTM 9 OR 11	BK	FL. OR	SHF	STREET NAME (PLAQUE)
M04-10L	48X18	6.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR (ARROW LEFT)
M04-10R	48X18	6.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25	ASTM 4	WH	RD	SH	STOP
R1-2	48 TRI.	6.93	ASTM 4	RD	WH	SH	YIELD
R1-2a	36X36	9.00	ASTM 4	BK	WH	SH	TO ONCOMING TRAFFIC (PLAQUE)
R1-3p	30X12	2.50	ASTM 4	WH	RD	SH	ALL WAY (PLAQUE)
R2-1	36X48	12.00	ASTM 4	BK	WH	SH	SPEED LIMIT XX
R3-1	48X48	16.00	ASTM 4	BK/RD	WH	SH	NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	ASTM 4	BK/RD	WH	SH	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00	ASTM 4	BK	WH	SH	NO TURNS
R3-4	48X48	16.00	ASTM 4	BK/RD	WH	SH	NO U-TURN (SYMBOL)
R3-7L	30X30	6.25	ASTM 4	BK	WH	SH	LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	ASTM 4	BK	WH	SH	RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00	ASTM 4	BK	WH	SH	DO NOT PASS
R4-2	36X48	12.00	ASTM 4	BK	WH	SH	PASS WITH CARE
R4-7a	36X48	12.00	ASTM 4	BK	WH	SH	KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00	ASTM 4	BK	WH	SH	KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25	ASTM 4	RD	WH	SH	DO NOT ENTER
R5-1a	36X24	6.00	ASTM 4	WH	RD	SH	WRONG WAY
R6-1L	54X18	6.75	ASTM 4	BK	WH	SH	ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75	ASTM 4	BK	WH	SH	ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00	ASTM 4	BK	WH	SH	ONE WAY (LEFT)
R6-2R	24X30	5.00	ASTM 4	BK	WH	SH	ONE WAY (RIGHT)
R9-9	24X12	2.00	ASTM 4	BK	WH	SH	SIDEWALK CLOSED
R9-11L	24X18	3.00	ASTM 4	BK	WH	SH	SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R9-11R	24X18	3.00	ASTM 4	BK	WH	SH	SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R10-6	24X36	6.00	ASTM 4	BK	WH	SH	STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	ASTM 4	BK	WH	SH	ROAD CLOSED
R11-3a	60X30	12.50	ASTM 4	BK	WH	SH	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY

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- (2) REFER TO THE LATEST EDITION OF MUTCD PART VI BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA FOR SIGN DEPICTION, ARROW, BORDERS AND SPACING SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA.
- (3) ARROW, BORDERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA.
- (4) USE OF A SUPPLEMENTAL PLATE FOR LINE 1 IS ACCEPTABLE.
- (5) PLAQUE AND APPLICABLE REGULATORY SIGN MAY BE MANUFACTURED AS ONE SIGN.
- (6) SH REFER TO STD. 903.02 SHEET 1 OF 8
- (7) SHF REFER TO STD. 903.02 SHEET 1 OF 8

GENERAL NOTES:

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA, UNLESS SPECIFIED OTHERWISE.

SIGN DIMENSIONS SHOWN ARE MINIMUM. NO ADDITIONAL
PAYMENT WILL BE MADE IF CONTRACTORS USE LARGER
SIGNS.

NO ADDITIONAL PAYMENT WILL BE MADE FOR PLATES.

ALL PLAQUES SHALL HAVE A BORDER. PLATES SHALL NOT HAVE A BORDER.

	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	TEMPORARY TRAFFIC CONTROL DEVICES WARNING, GUIDE AND REGULATORY SIGNS	
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.		
DATE EFFECTIVE: <u>01/01/2022</u>	616.10AY	SHEET NO. 7 OF 9
DATE PREPARED: <u>10/21/2021</u>		

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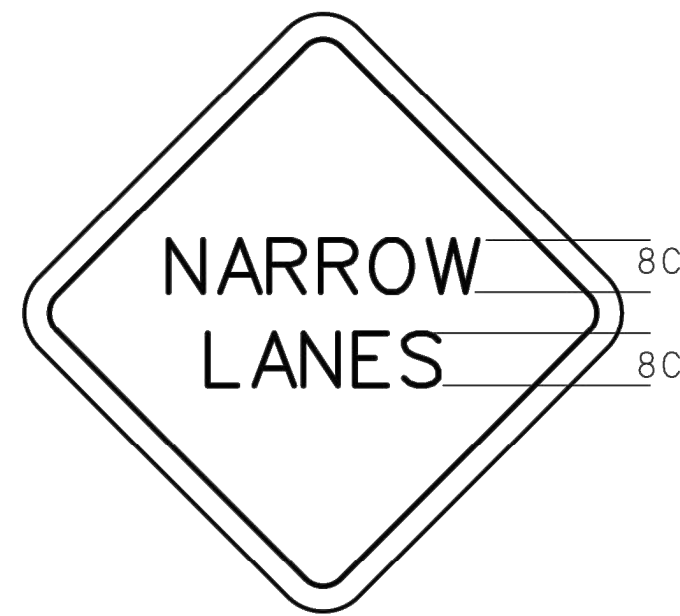
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4	PER MODOT COMMENT	JGD	04/07/23	FIELD BOOK: FOR REVIEW
				JOB NUMBER: 21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING
TRAFFIC CONTROL
DETAILS-7

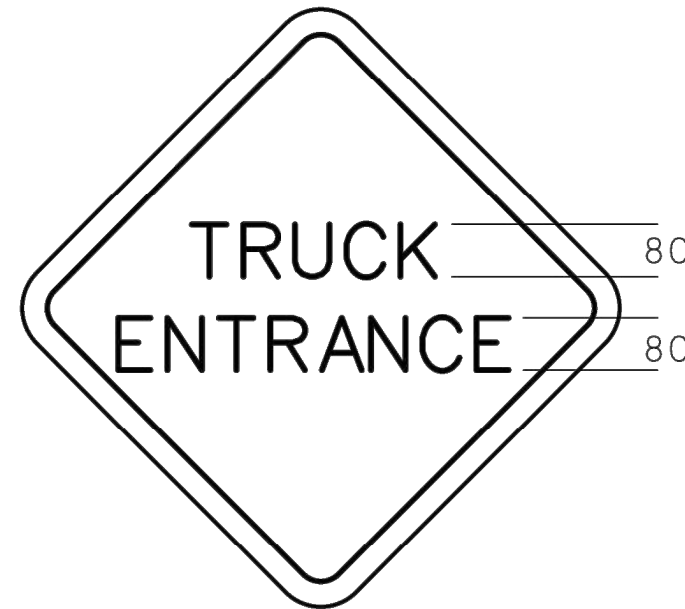
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

SHEET NUMBER

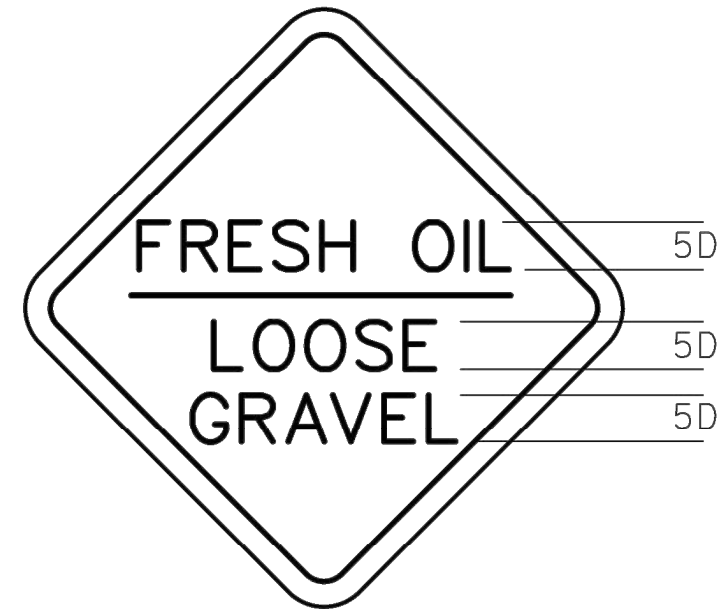
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39 OF 66



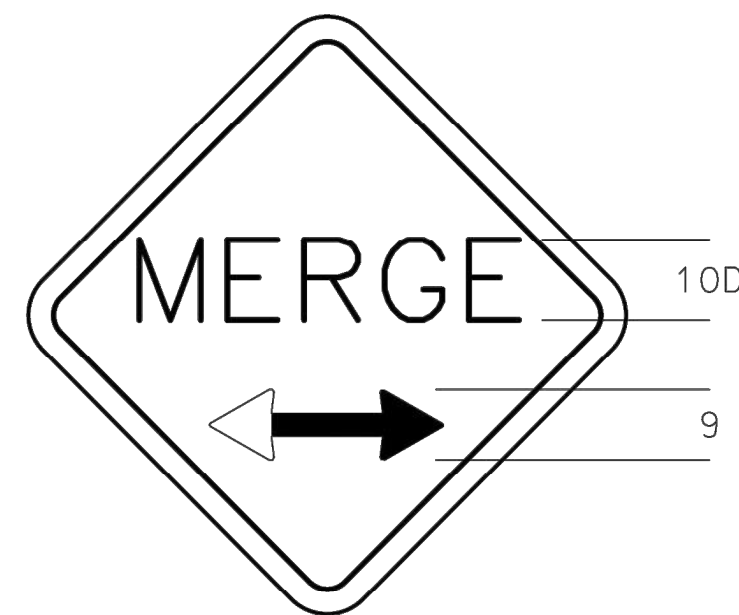
W05-5 (3)



W08-6c (3)



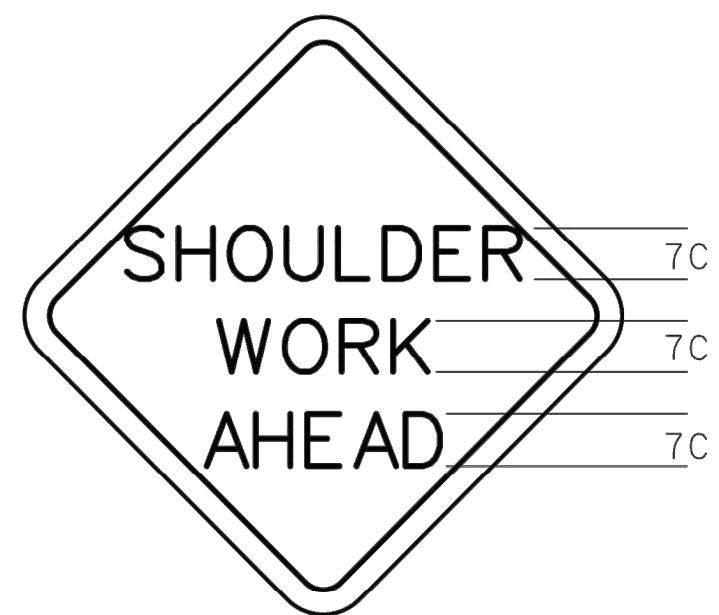
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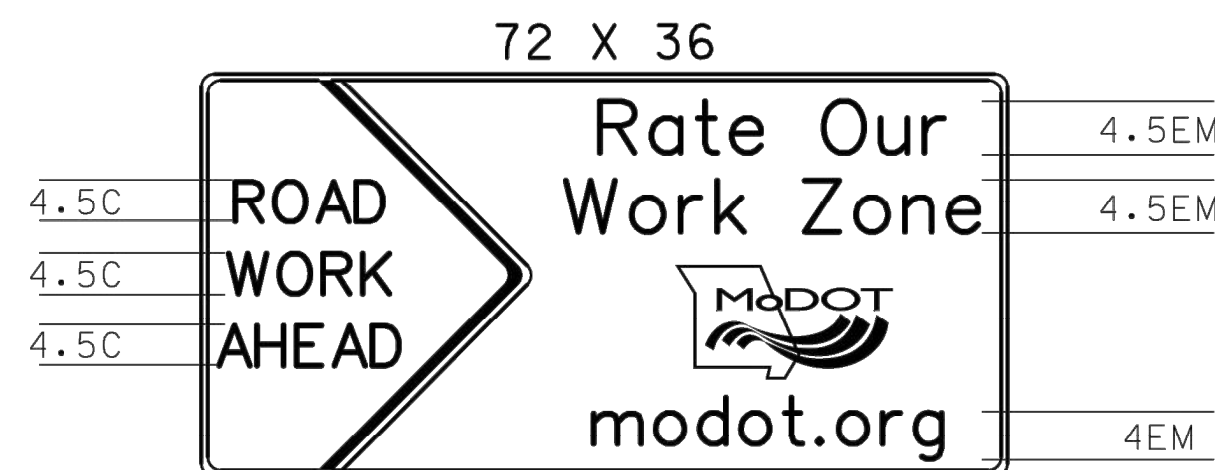
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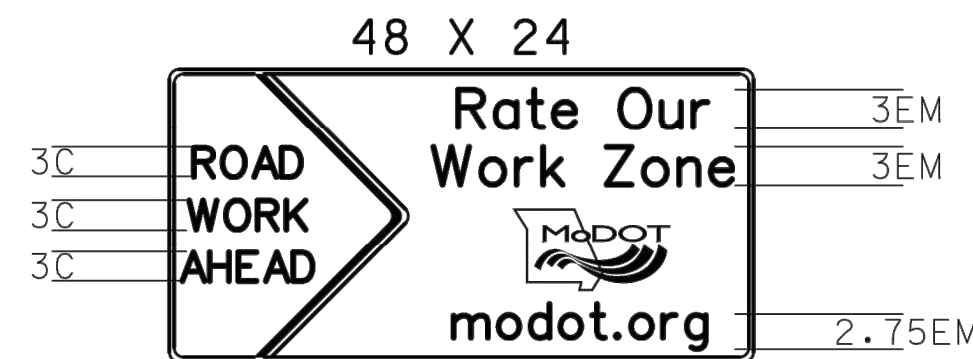
W020-6a (3)(4)



W021-5 (3)

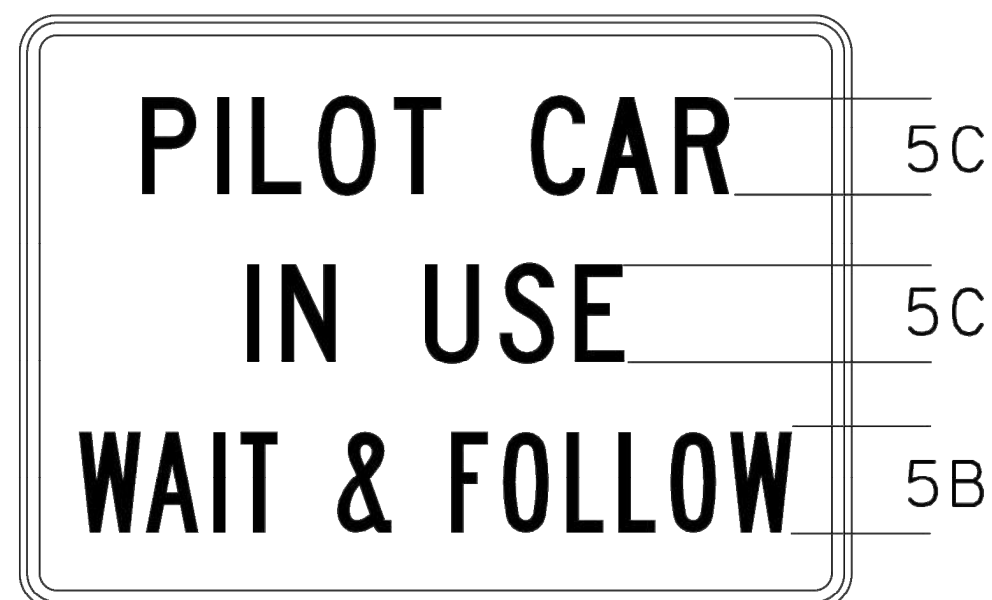


CONST-7



SPEEDING\PASSING

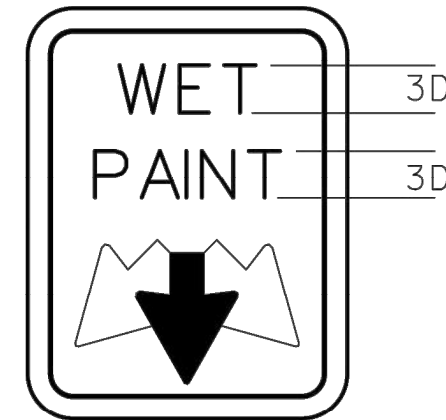
CONST-3X (3)



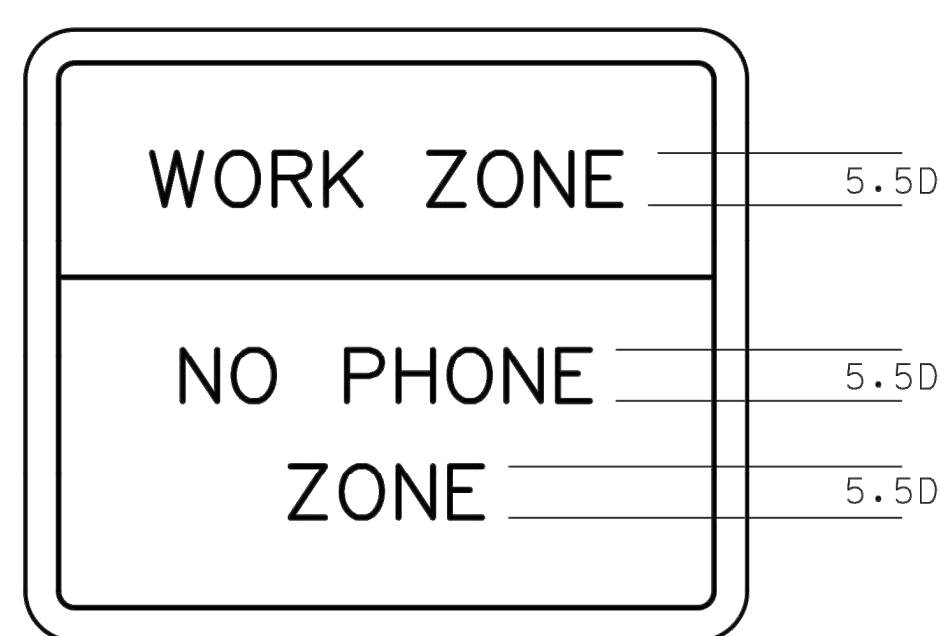
G020-4a (3)
42X30



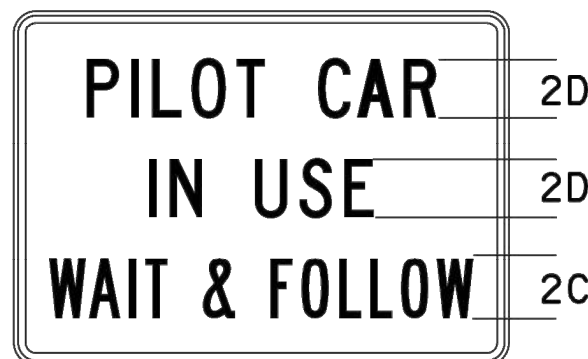
W012-5 (3)



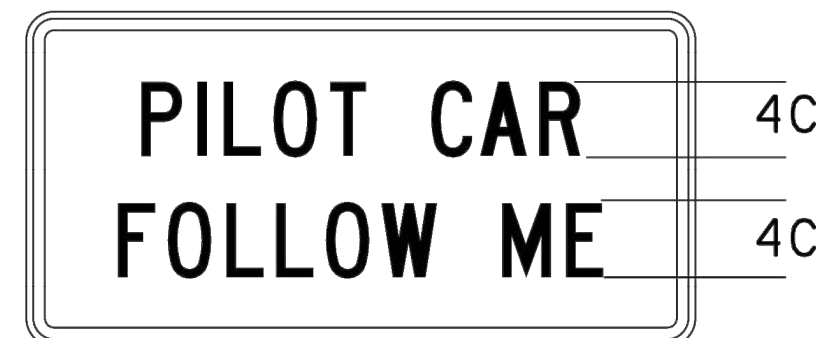
G022-1 (3)



CONST-8 (3)



G020-4a (3)(4)
18X12



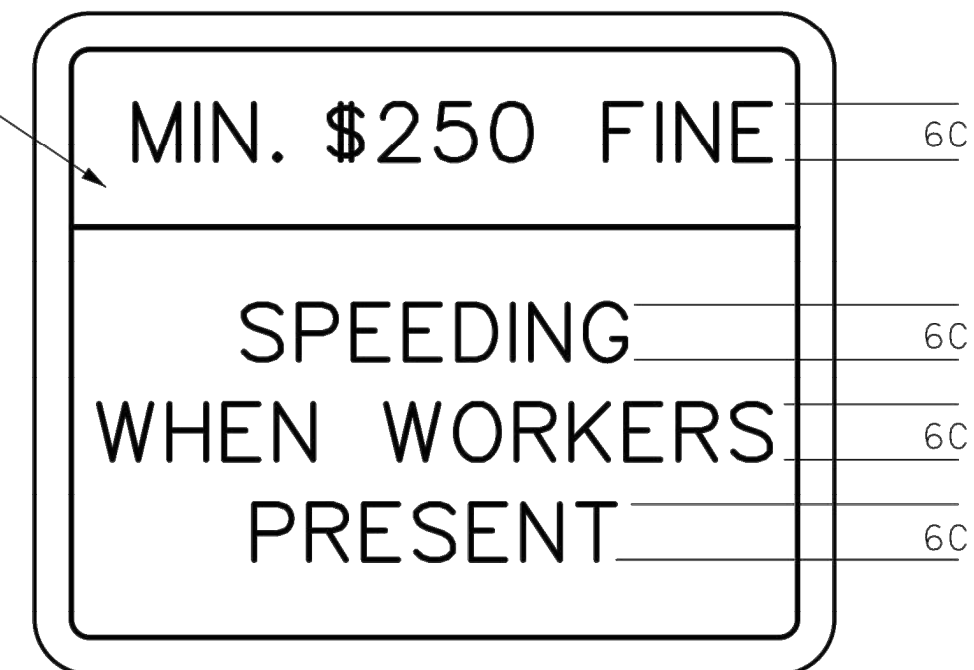
G020-4 (3)
36X18



W012-4 (3)

- (1) SIGN DEPICTION, ARROW, BORDERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA.
- (2) REFER TO THE LATEST EDITION OF MUTCD PART VI BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA FOR SIGN DEPICTION, ARROW, BORDERS AND SPACING SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA.
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- (4) USE OF A SUPPLEMENTAL PLATE FOR LINE 1 IS ACCEPTABLE.
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FL. OR



CONST-3A (3)

GENERAL NOTES:

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LETTER DIMENSIONS SHALL BE AS SHOWN.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION		
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)		
	TEMPORARY TRAFFIC CONTROL DEVICES	
DATE EFFECTIVE: 10/01/2021 DATE PREPARED: 7/13/2021	616.10AY	SHEET NO. 8 OF 9

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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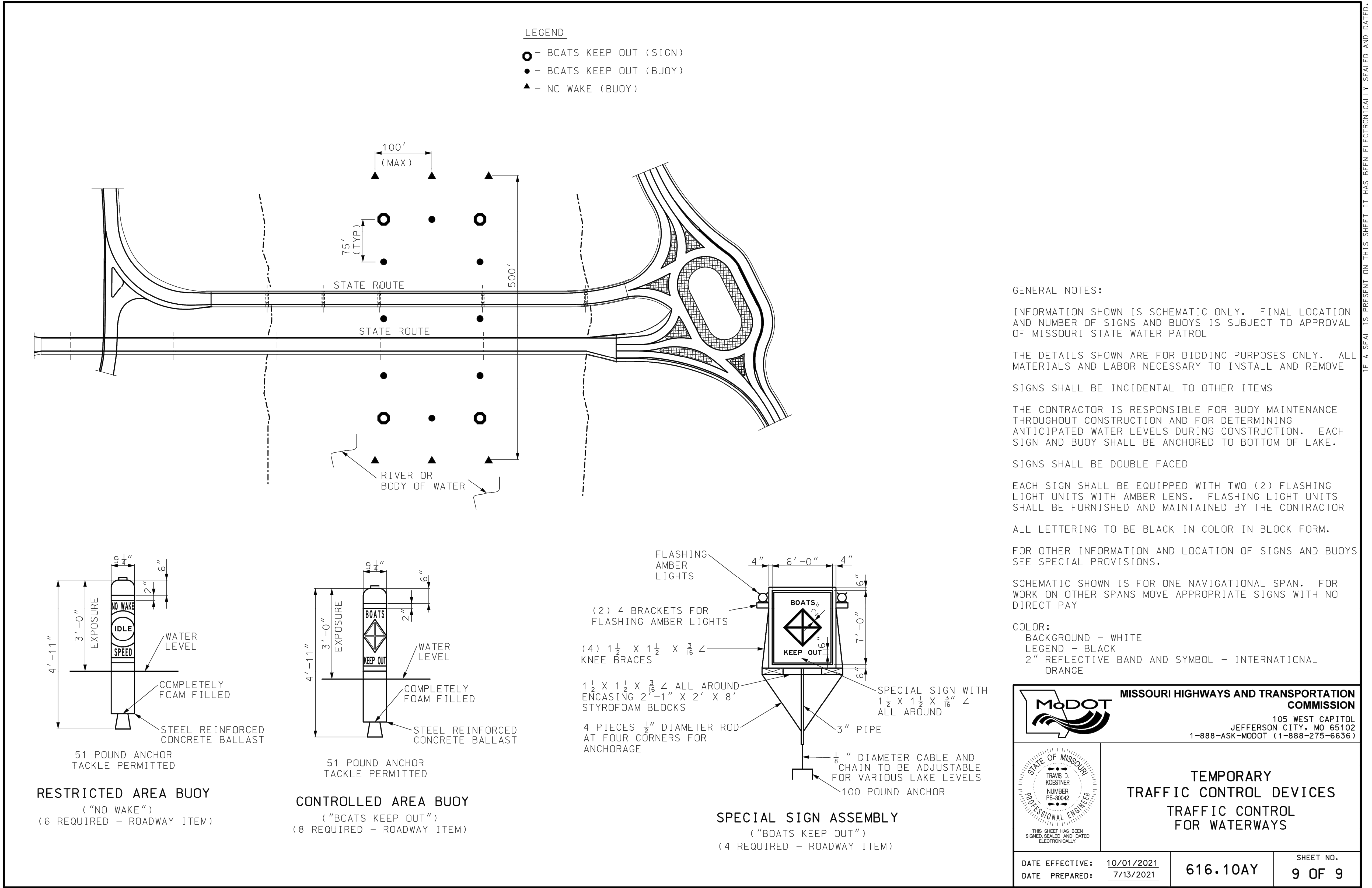
REVISIONS		DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE
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1	PER MODOT COMMENT	JGD	09/13/22
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4	PER MODOT COMMENT	JGD	04/07/23
		FOR REVIEW	04/07/22
		JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING
TRAFFIC CONTROL DETAILS-8

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER
40
40 OF 66



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		FIELD BOOK:	FOR REVIEW
		JOB NUMBER:	21K010060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

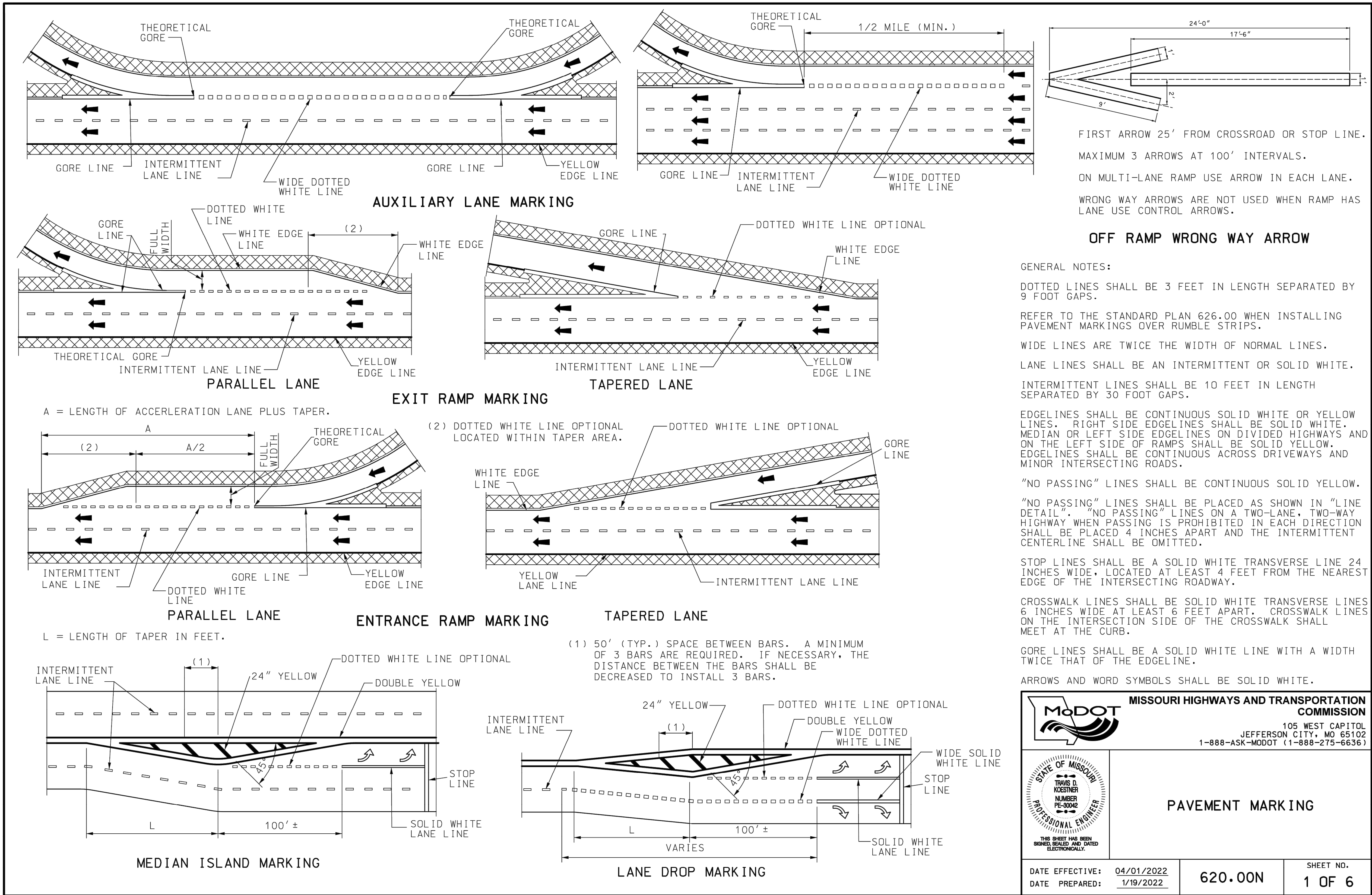
**TRAFFIC CONTROL
DETAILS-9**

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER
PE-2009030032
PROFESSIONAL ENGINEER
04/07/2023

SHEET NUMBER
41
41 OF 66

Apr 07, 2023 - 2:04pm Plotted By: Jfield G:\Shared drives\K010 - Land Development\Projects\2022\21K010060 Cobey Creek Residential\01 CIVIL\03-DWG\Sheet\ModOT 150 HWY WIDENING\21K010060-01V-STD1-3.dwg Layout: PAVEMENT MARKING-1



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DRAWN BY:	JGD
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LICENSE NO.	PE-2009030032
DATE:	04/07/22
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FIELD BOOK:	21K010060
JOB NUMBER:	

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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

PAVEMENT MARKINGS-1

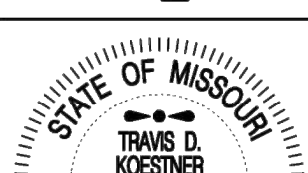
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PROFESSIONAL ENGINEER
PATRICK J. ROYCE
NUMBER PE-2009030032
04/07/2023

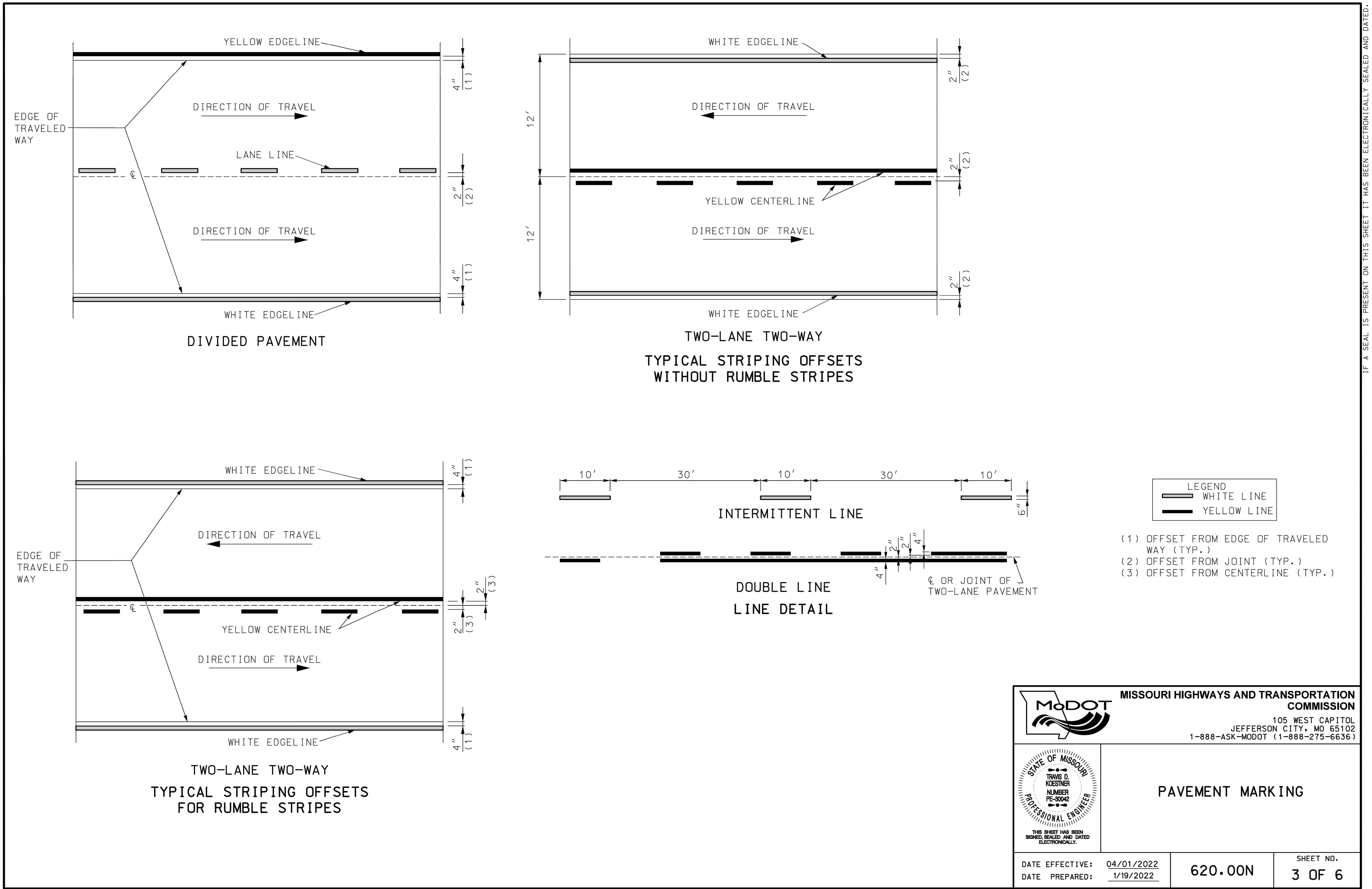
Diagram illustrating a road cross-section. The diagram shows a centerline, travel lanes, and shoulders. A circular detail 'A' is shown on the centerline. Labels include 'EDGE OF TRAVELED WAY', 'DETAIL A', 'EDGE OF TRAVELED WAY', and 'SHOULDER'. Arrows indicate traffic flow directions.

Technical drawing of a mechanical part. The drawing shows a cross-section of a part with a central hole. The overall width is 12". The distance from the left edge to the center of the hole is 7" ± 1/2". The hole has a diameter of 1.6". The distance from the center of the hole to the right edge is 7" ± 1/2". The part has a thickness of 1.6". The drawing is labeled with dimensions: 12", 7" ± 1/2", 1.6", and 7" ± 1/2".

DETAIL B

	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)		
	PAVEMENT MARKING ALTERNATE PASSING LANE		
DATE EFFECTIVE: <u>04/01/2022</u> DATE PREPARED: <u>1/19/2022</u>	620.00N	SHEET NO. 2 OF 6	

Apr 07, 2023 - 2:04pm Plotted By: Jfield G:\Shared drives\K010 - Land Development\Projects\2022\21K010060 Cobey Creek Residential\01 CIVIL\03-DWG\Sheet\MoDOT 150 HWY WIDENING\21K010060-01V-STD-3.dwg Layout: PAVEMENT MARKING-3



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3	PER MODOT COMMENT	JGD	07/19/23
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		DRAWN BY:	JGD
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		LICENSE NO.	PE-2009030032
		DATE:	04/07/22
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

PAVEMENT MARKINGS-3

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

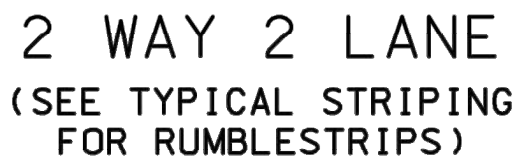
STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER PE-2009030032
PROFESSIONAL ENGINEER

04/07/2023

SHEET NUMBER

44

44 OF 66



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

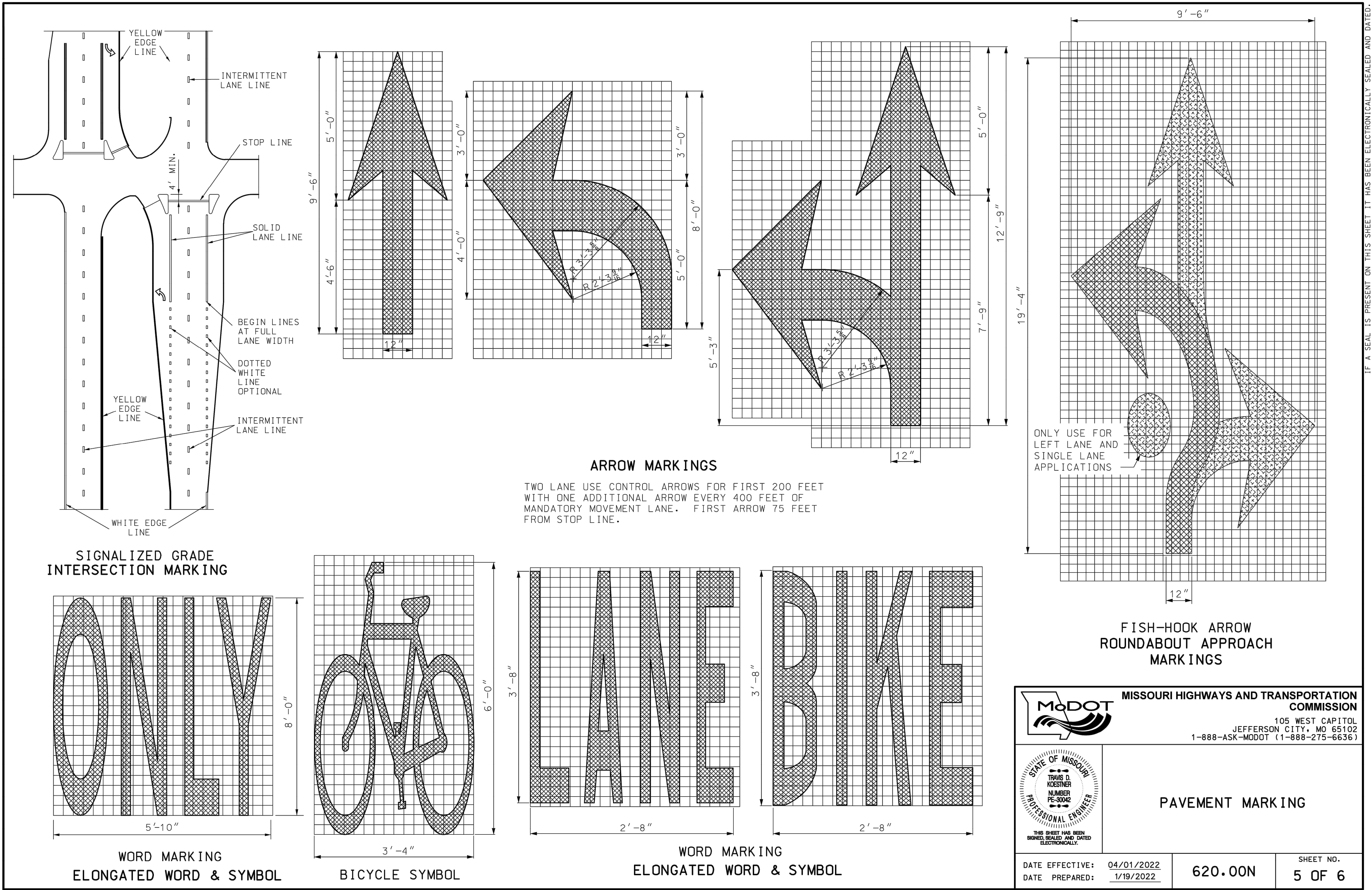
		MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
 THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	PAVEMENT MARKING STRIPING THROUGH RUMBLE STRIPS		
DATE EFFECTIVE: <u>04/01/2022</u> DATE PREPARED: <u>1/19/2022</u>	620.00N		SHEET NO. 4 OF 6

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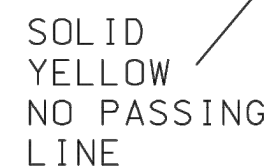
REVISIONS		DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE
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4	PER MODOT COMMENT	JGD	04/07/23
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

PAVEMENT MARKINGS-5

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER PE-2009030032
PROFESSIONAL ENGINEER
04/07/2023



(1) THE DISTANCE FROM THE RAILROAD CROSSING MARKING TO THE NEAREST TRACK WILL VARY ACCORDING TO THE APPROACH SPEED AND THE SIGHT DISTANCE OF THE VEHICULAR TRAFFIC APPROACHING, BUT SHALL BE NO LESS THAN 50 FEET.

A THREE-LANE ROADWAY SHALL BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING. ON MULTI-LANE ROADWAYS THE TRANSVERSE BANDS SHALL EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL "R X R" SYMBOLS SHALL BE USED IN EACH APPROACH LANE.

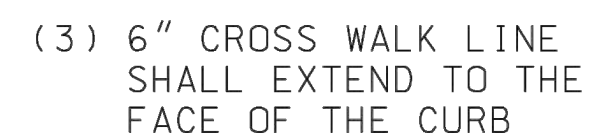
A large outline of the letter 'R' is shown. Below the letter, a horizontal dimension line indicates a width of 12". To the right of the letter, a vertical dimension line indicates a height of 6'.

EDGE OF INTERSECTION OR CROSSWALK

$\frac{1}{2} D$ 12" 18" D MIN 4' MAX 30' $\frac{1}{2} D$

DIRECTION OF TRAVEL

TRIANGLES SHALL BE UNIFORMLY SPACED AND COVER THE COMPLETE WIDTH OF THE TRAVEL LANE. SPACING SHALL BE ADJUSTED SO THERE ARE NO PARTIAL TRIANGLES WITHIN THE YIELD MARKING.



A VARIABLE BASED ON
THE ACTUAL LANE
WIDTH

B VARIES BASED ON
DISTANCE TO THE
CURB, BUT SHALL
NOT EXCEED 30".
IF SHOULDERS
EXIST THE PATTERN
SHALL BE EXTENDED
TO THE CURB FACE
ADDING ADDITIONAL
BLOCKS IF NEEDED

		MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
		PAVEMENT MARKING	
DATE EFFECTIVE: <u>04/01/2022</u> DATE PREPARED: <u>1/19/2022</u>	620.00N	SHEET NO. 6 OF 6	

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4	PER MODOT COMMENT	JSD	01/19/23	DATE:	04/07/22
				FIELD BOOK:	FOR REVIEW
				JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

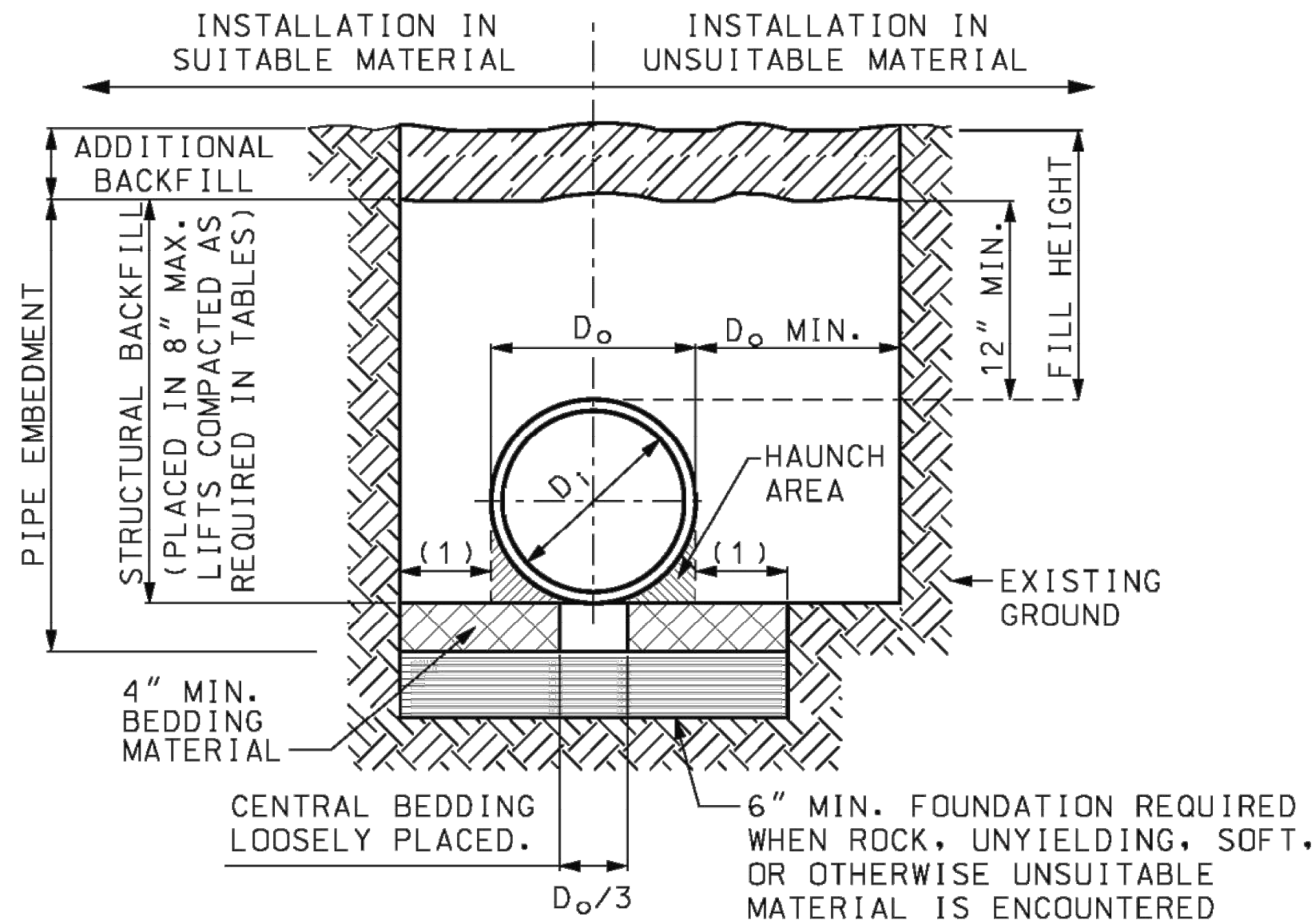
PAVEMENT MARKINGS-6

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

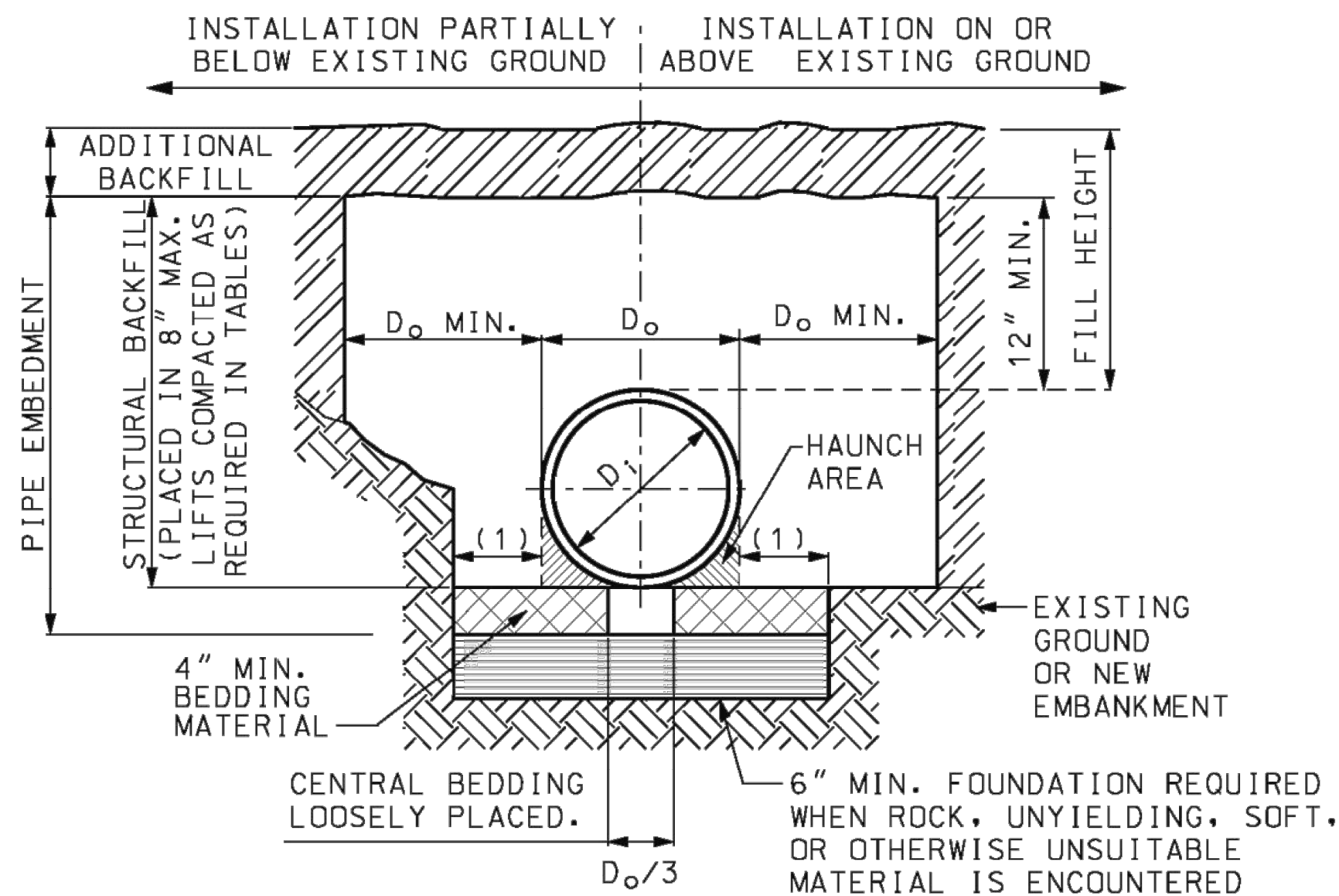
47
47 OF 66



TRENCH INSTALLATION

LEGEND
 D_i = INSIDE DIAMETER OF PIPE.
 D_o = OUTSIDE DIAMETER OF PIPE.
(1) = $(D_o/4)+6"$ (MIN.)

NOTE:
MULTIPLE PIPE SHALL BE INSTALLED WITH A MINIMUM CLEARANCE BETWEEN PIPES OF $\frac{1}{2} D_o$ OR 12", WHICHEVER IS GREATER, BUT NOT TO EXCEED 36".



EMBANKMENT INSTALLATION

CONSTRUCTION SEQUENCE

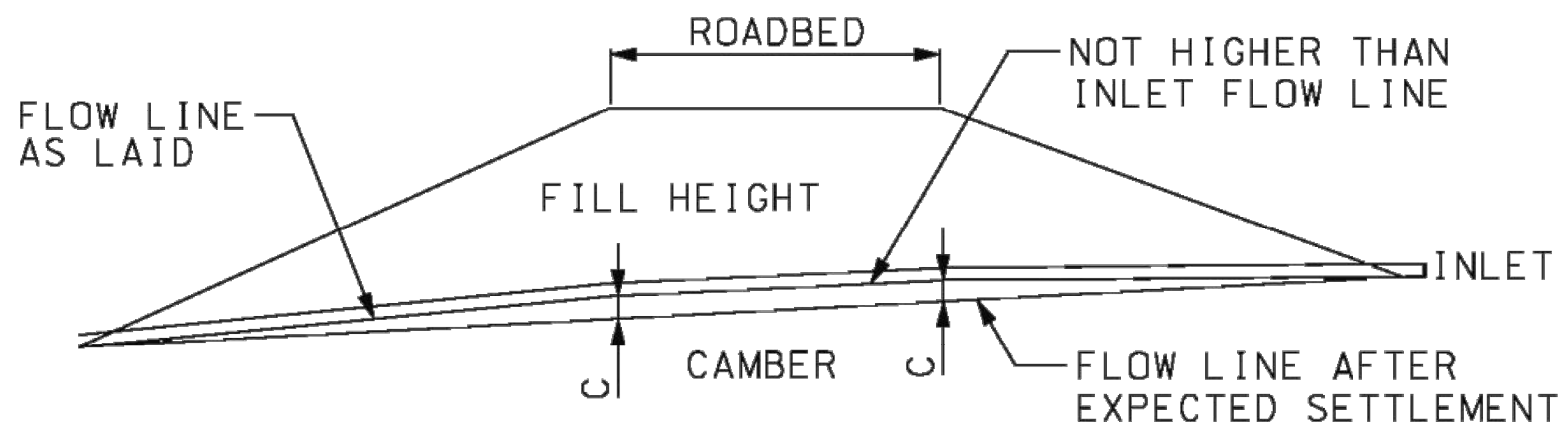
1. PLACE BEDDING MATERIAL TO GRADE.
2. COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
3. INSTALL PIPE TO GRADE.
4. COMPLETE STRUCTURAL BACKFILL ACCORDING TO SPECIFICATIONS.

FILL HEIGHT LIMITS																			
STRUCTURAL BACKFILL	SPECIFIED NOMINAL DIA OF PIPE (IN.)	POLYETHYLENE				STEEL REINFORCED POLYETHYLENE		POLYVINYL				DOUBLE WALL POLYPROPYLENE				TRIPLE WALL POLYPROPYLENE			
		COMPACTION 90% SPD		COMPACTION 95% SPD		COMPACTION 90% SPD		COMPACTION 90% SPD		COMPACTION 95% SPD		COMPACTION 90% SPD		COMPACTION 95% SPD		COMPACTION 90% SPD		COMPACTION 95% SPD	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
GRAVEL (AASHTO M145 SOIL TYPE A1 & A3)	12	2'	19'	2'	26'	--	--	2'	32'	2'	61'	2'	21'	2'	29'	--	--	--	--
	15	2'	19'	2'	27'	--	--	2'	32'	2'	55'	2'	22'	2'	31'	--	--	--	--
	18	2'	17'	2'	25'	--	--	2'	31'	2'	60'	2'	19'	2'	27'	--	--	--	--
	24	2'	15'	2'	21'	2'	50'	2'	30'	2'	54'	2'	16'	2'	22'	--	--	--	--
	30	2'	17'	2'	24'	2'	50'	2'	31'	2'	52'	2'	11'	2'	15'	2'	17'	2'	23'
	36	2'	13'	2'	19'	2'	50'	2'	30'	2'	53'	--	--	--	--	2'	15'	2'	21'
	42	2'	13'	2'	19'	2'	50'	--	--	--	--	--	--	--	--	2'	19'	2'	27'
	48	2'	12'	2'	18'	2'	30'	--	--	--	--	--	--	--	--	2'	12'	2'	17'
60	2'	13'	2'	20'	2'	30'	--	--	--	--	--	--	--	--	2'	16'	2'	23'	
COURSE SAND (AASHTO M145 SOIL TYPE A-1-b)	12	2'	17'	2'	23'	--	--	2'	32'	2'	55'	2'	18'	2'	24'	--	--	--	--
	15	2'	16'	2'	22'	--	--	2'	32'	2'	49'	2'	22'	2'	31'	--	--	--	--
	18	2'	15'	2'	21'	--	--	2'	31'	2'	53'	2'	16'	2'	21'	--	--	--	--
	24	2'	14'	2'	20'	2'	50'	2'	30'	2'	48'	2'	13'	2'	17'	--	--	--	--
	30	2'	13'	2'	19'	2'	50'	2'	31'	2'	46'	2'	7'	2'	10'	2'	17'	2'	23'
	36	2'	12'	2'	17'	2'	50'	2'	30'	2'	46'	--	--	--	--	2'	15'	2'	21'
	42	2'	13'	2'	18'	2'	50'	--	--	--	--	--	--	--	--	2'	19'	2'	27'
	48	2'	12'	2'	17'	2'	30'	--	--	--	--	--	--	--	--	2'	12'	2'	17'
60	2'	13'	2'	20'	2'	30'	--	--	--	--	--	--	--	--	2'	16'	2'	23'	
SILTY SAND OR SILTY GRAVEL (AASHTO M145 SOIL TYPES A-2-4 & A-2-5)	12	3.3'	10'	2'	17'	--	--	2.7'	16'	2'	33'	2.8'	11'	2'	19'	--	--	--	--
	15	3.4'	10'	2'	16'	--	--	2.7'	16'	2'	33'	2.8'	11'	2'	23'	--	--	--	--
	18	3.6'	10'	2'	15'	--	--	2.7'	15'	2'	32'	3'	11'	2'	16'	--	--	--	--
	24	3.8'	9'	2'	14'	2'	50'	2.7'	15'	2'	31'	3.3'	10'	2'	13'	--	--	--	--
	30	3.7'	10'	2'	14'	2'	50'	2.8'	15'	2'	31'	3.4'	6'	2'	7'	3'	10'	2'	17'
	36	4.2'	7'	2'	12'	2'	50'	2.8'	14'	2'	31'	--	--	--	--	3.3'	10'	2'	15'
	42	4.2'	7'	2'	13'	2'	50'	--	--	--	--	--	--	--	--	3.2'	11'	2'	20'
	48	4.5'	6'	2'	12'	2'	30'	--	--	--	--	--	--	--	--	3.1'	9'	2'	13'
60	3.3'	7'	2'	14'	2'	30'	--	--	--	--	--	--	--	--	2'	10'	2'	17'	

MINIMUM COVER FOR CONSTRUCTION LOADS

NOMINAL PIPE DIA. (IN.)	MINIMUM COVER (FT) FOR INDICATED AXLE LOADS (THOUSANDS OF POUNDS)			
	18-50	50-75	75-110	110-150
12-36	2.0	2.5	3.0	3.0
42-60	3.0	3.0	3.5	4.0

MINIMUM COVER LIMITS ARE NOT SUFFICIENT FOR SILTY SAND OR SILTY GRAVEL STRUCTURAL BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY. THE CONTRACTOR SHALL PROVIDE MINIMUM COVER PLUS ANY ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. IN UNPAVED SITUATIONS, THE SURFACE MUST BE MAINTAINED TO A LEVEL AND NON-RUTTED CONDITION.



NOTE:
ON YIELDING SOIL, PIPE CULVERTS SHALL BE PLACED ON A CAMBERED FLOW LINE. THE AMOUNT OF CAMBER WILL VARY WITH SOIL CONDITION AND WILL BE SPECIFIED ON THE DESIGN PLANS.

TYPICAL CAMBERED FLOW LINE

NOTE:

SPD = STANDARD PROCTOR DENSITY.

FILL HEIGHT MEASURED FROM THE TOP OF PIPE TO SURFACE.

LIMITS ACCOUNT FOR SHORT-TERM TEMPORARY WATER TABLE DEPTHS OF FIVE FEET ABOVE SPRINGLINE. TABLES ARE NOT APPLICABLE FOR LONG-TERM PERMANENT WATER TABLE DEPTHS ABOVE SPRINGLINE.

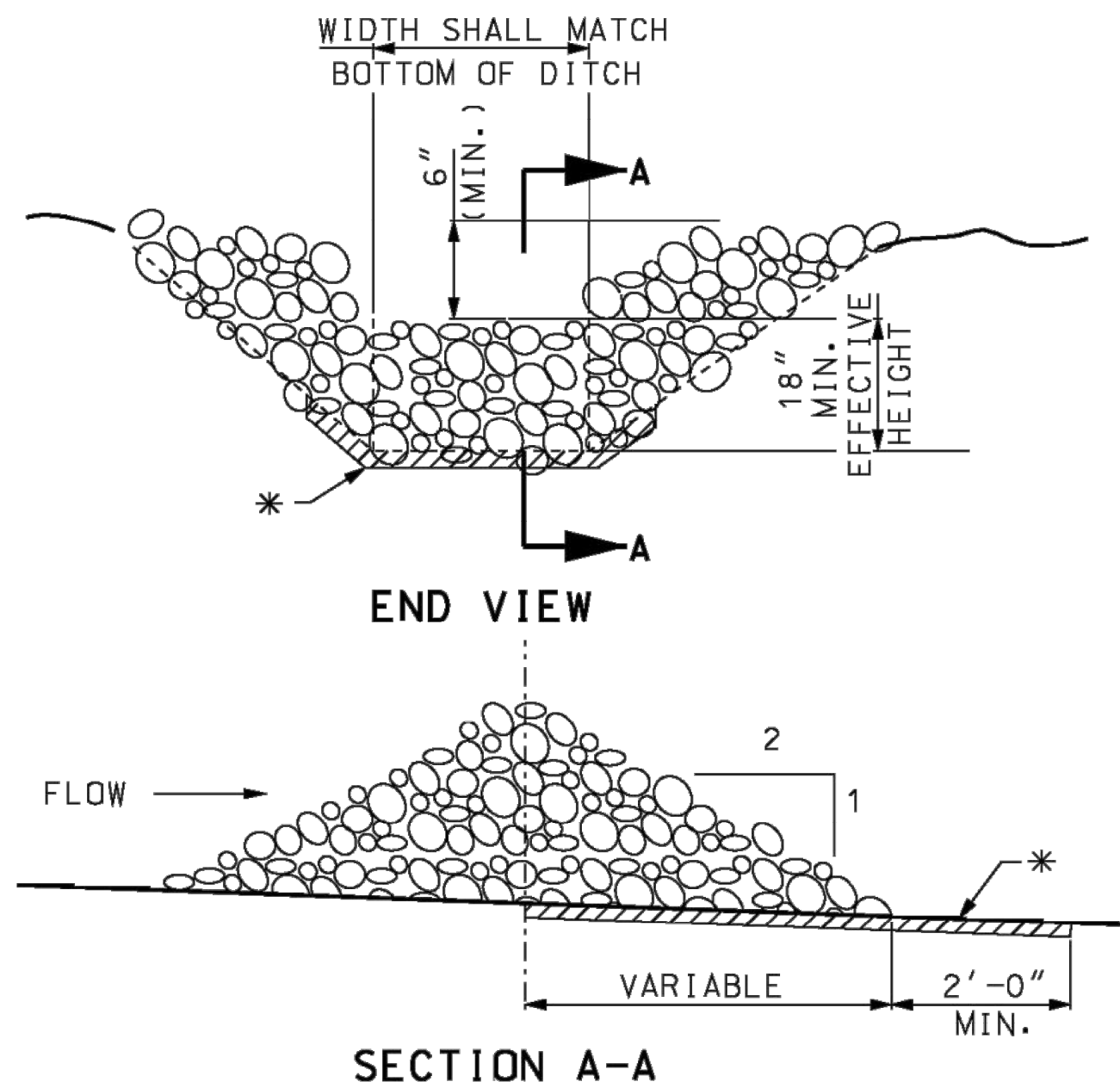
WHEN PIPES ARE USED AS GROUP A, FILL HEIGHTS ARE LIMITED TO SHADED VALUES.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)		THERMOPLASTIC PIPE INSTALLATION METHODS	
DATE EFFECTIVE: 04/01/2015 DATE PREPARED: 2/27/2015		730.00E	
SHEET NO. 1 OF 1			

REVISIONS		DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE
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ROCK DITCH CHECK



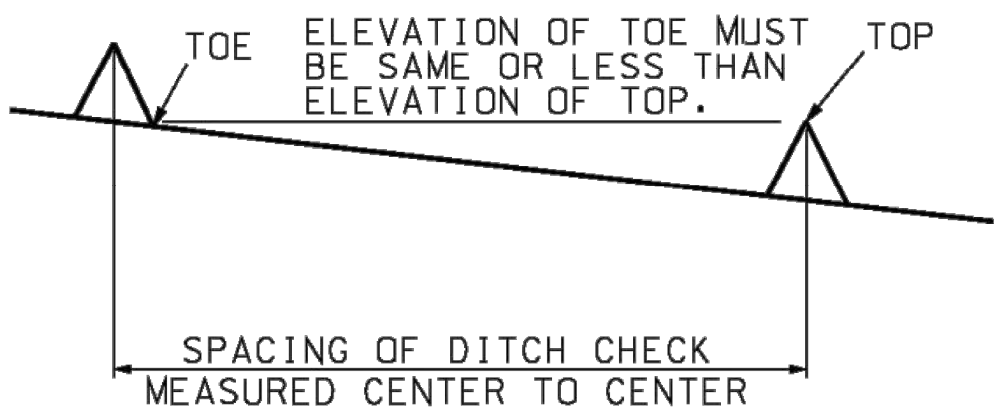
* GEOTEXTILE LINING MAY BE INSTALLED AS REQUIRED BY THE ENGINEER.

NOTE:

ROCK DITCH CHECK IN THE CLEAR ZONE SHALL BE REMOVED OR LEVELED (IF ALLOWABLE) AFTER THE VEGETATION HAS SUFFICIENTLY MATURED TO PROTECT THE DITCH OR SWALE.

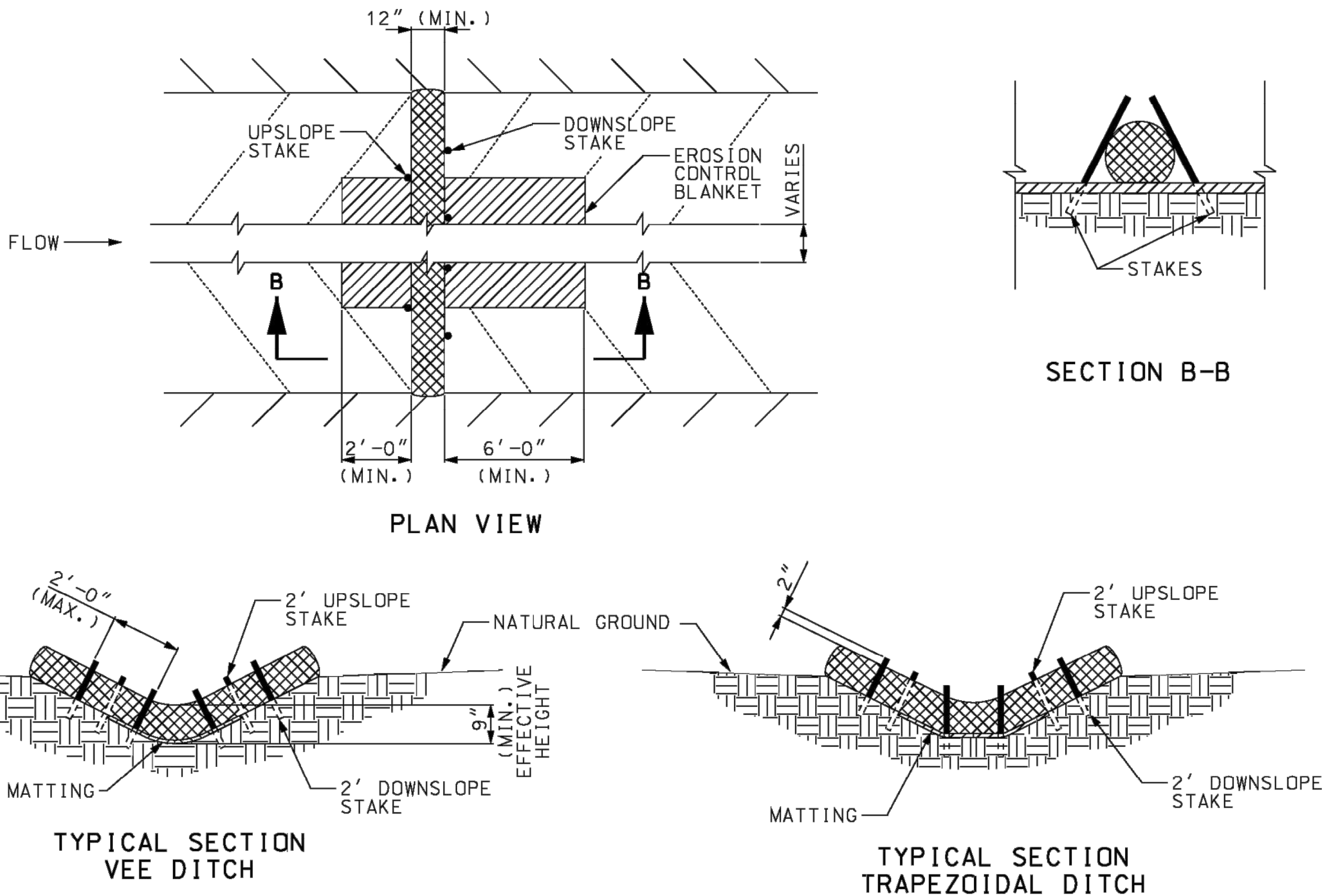
EXAMPLE DITCH CHECK SPACING FOR STANDARD HEIGHTS (FT.)

DITCH & SLOPE %	SPACING FOR 9" EFF. HEIGHT	SPACING FOR 18" EFF. HEIGHT
0.5	150	300
1.0	75	150
1.5	50	100
2.0	37	75
2.5	30	60
3.0	25	50
3.5	21	43
4.0	19	38
4.5	16	33
5.0	15	30
5.5	13	27
6.0	12	25
6.5	11	23
7.0	10	21
7.5	10	20
8.0	9	19
8.5	9	18
9.0	8	17
9.5	8	16
10.0	7	15



MINIMUM DITCH CHECK SPACING

ALTERNATE DITCH CHECK



NOTES:

USE MINIMUM 12 IN. DIAMETER LOG/SOCK.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL LOG/SOCK TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND LOG/SOCK AND SCOUR DITCH SLOPES OR AS DIRECTED BY ENGINEER.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE LOG/SOCK TO BOTTOM OF DITCH.

EROSION CONTROL BLANKET SHALL BE ANCHORED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES:

OTHER PROPRIETARY DITCH CHECKS MAY BE SUBSTITUTED IN ACCORDANCE WITH SEC 806 OR AS DIRECTED BY THE ENGINEER.

INSTALLATION OF PROPRIETARY DITCH CHECKS SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
STATE OF MISSOURI ERIC E. SCHROETER NUMBER PE-28411 PROFESSIONAL ENGINEER THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	TEMPORARY EROSION CONTROL MEASURES TEMPORARY DITCH CHECKS
DATE EFFECTIVE: 04/01/2015 DATE PREPARED: 2/20/2015	806.10J
SHEET NO. 1 OF 6	

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3	PER MODOT COMMENT	JGD	07/19/23
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		JOB NUMBER:	21KC10060

SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

ESC DETAILS - 1

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER PE-28411
PROFESSIONAL ENGINEER
04/07/2023

SHEET NUMBER

49

49 OF 66



SECTION A-A

SEDIMENT TRAP IN THE CLEAR ZONE SHALL BE REMOVED OR
 LEVELED (IF ALLOWABLE) AFTER THE VEGETATION HAS
 SUFFICIENTLY MATURED TO PROTECT THE DITCH OR SWALE.



Diagram illustrating the cross-section of a concrete wall and its foundation. The wall is shown with a vertical section and a horizontal section. The horizontal section shows a concrete slab with a 2'-0" width. The vertical section shows a concrete wall with a 2'-1" height. The wall is reinforced with 1/4" WIRE MESH. The foundation is also reinforced with 1/4" WIRE MESH. The aggregate for drainage is shown as a layer of material between the wall and the foundation. The aggregate is 12" (MIN.) thick. The slope of the aggregate is 2:1. The water flow is indicated by an arrow pointing to the right.

Labels in the diagram include:

- 1/4" WIRE MESH (top and bottom)
- AGGREGATE FOR DRAINAGE
- 12" (MIN.)
- 2:1
- 2'-0"
- 2'-1"
- WATER FLOW

NOTE: The diagram is a cross-section of a wall and foundation. The wall is shown with a vertical section and a horizontal section. The horizontal section shows a concrete slab with a 2'-0" width. The vertical section shows a concrete wall with a 2'-1" height. The wall is reinforced with 1/4" WIRE MESH. The foundation is also reinforced with 1/4" WIRE MESH. The aggregate for drainage is shown as a layer of material between the wall and the foundation. The aggregate is 12" (MIN.) thick. The slope of the aggregate is 2:1. The water flow is indicated by an arrow pointing to the right.

SECTION B-B



PRIOR TO PLACEMENT ALL DEBRIS,
ROCK, LARGE CLODS AND WOOD
VEGETATION SHALL BE CLEARED.

LOG/SOCK PLACED ON PAVEMENT
SHALL BE WEIGHTED DOWN
WITH GRAVEL/SAND BALLAST.



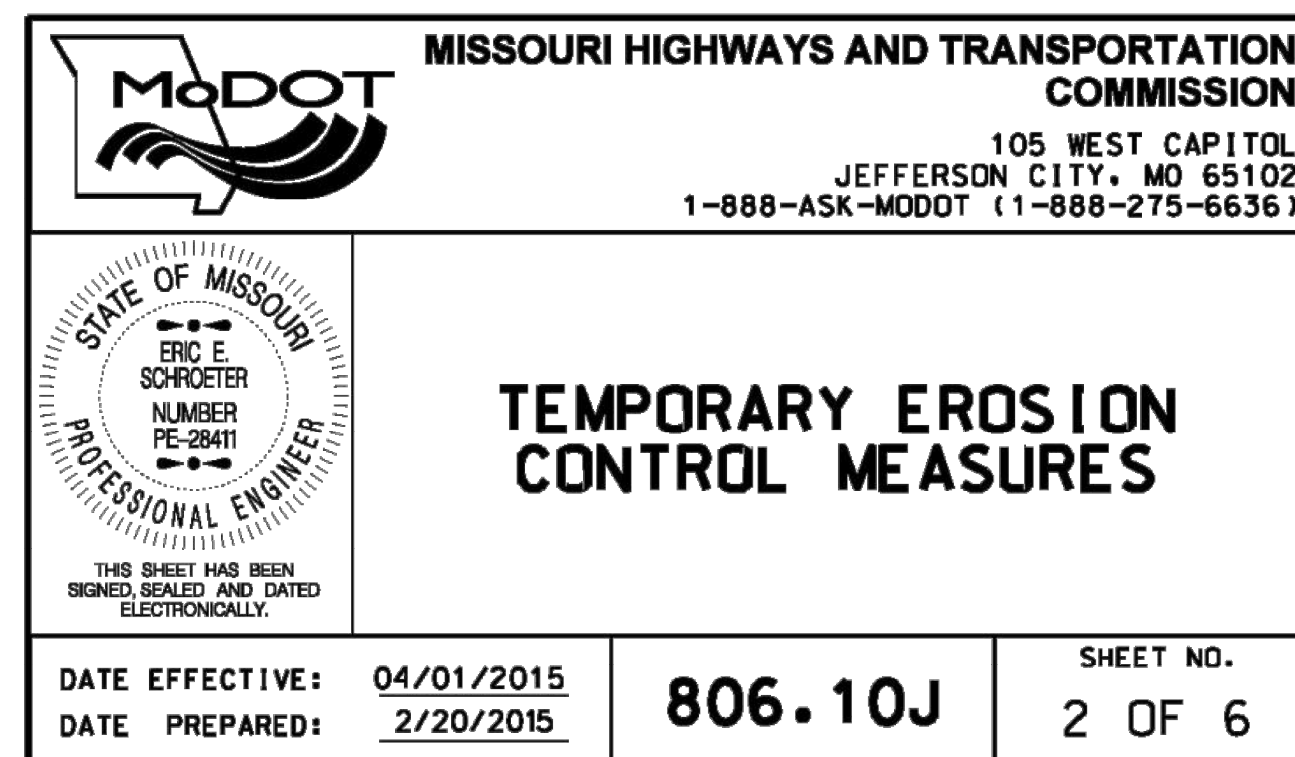
SEE SHEET 1 OF 6 FOR DETAILS OF ROCK DITCH CHECK.



SECTION
INLET PROTECTION DROP CONTAINMENT

OTHER PROPRIETARY INLET PROTECTION MAY BE
SUBSTITUTED IN ACCORDANCE WITH SEC 806 OR
AS DIRECTED BY THE ENGINEER.

FOR SEDIMENT CONTROL SPACING SEE SHEET 1 OF 6.

[illegible]

SUMMIT HOMES
COBBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

ESC DETAILS - 2

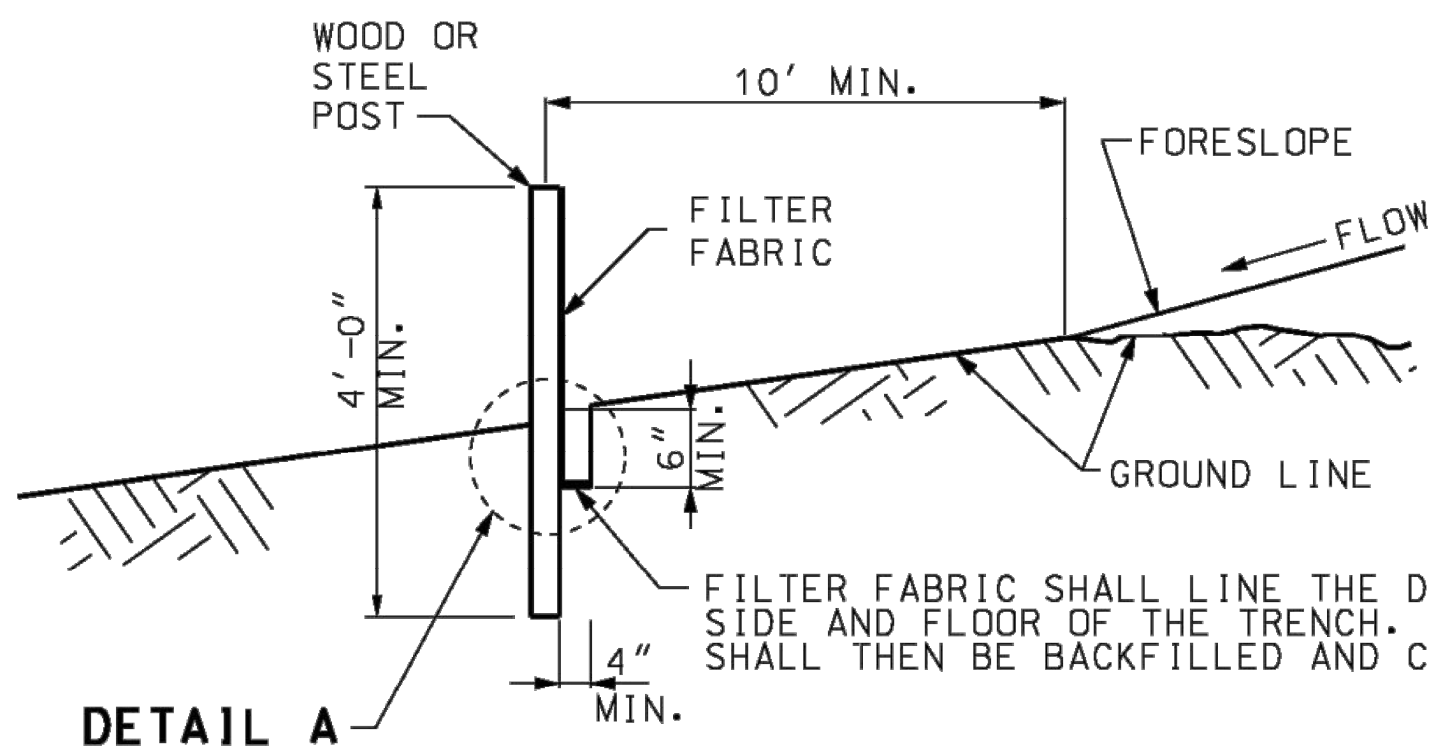
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. JOYCE
NUMBER
PE-24099030032
PROFESSIONAL ENGINEER
04/07/2023

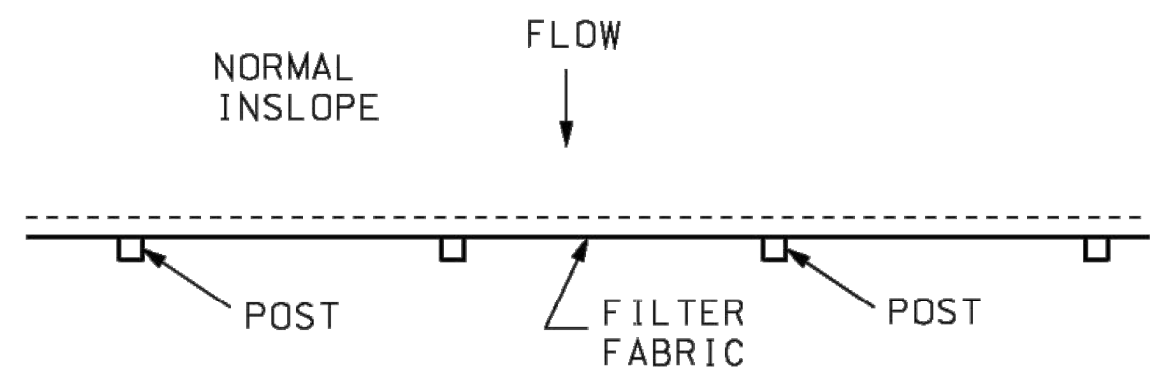
SHEET NUMBER

50
50 OF 66

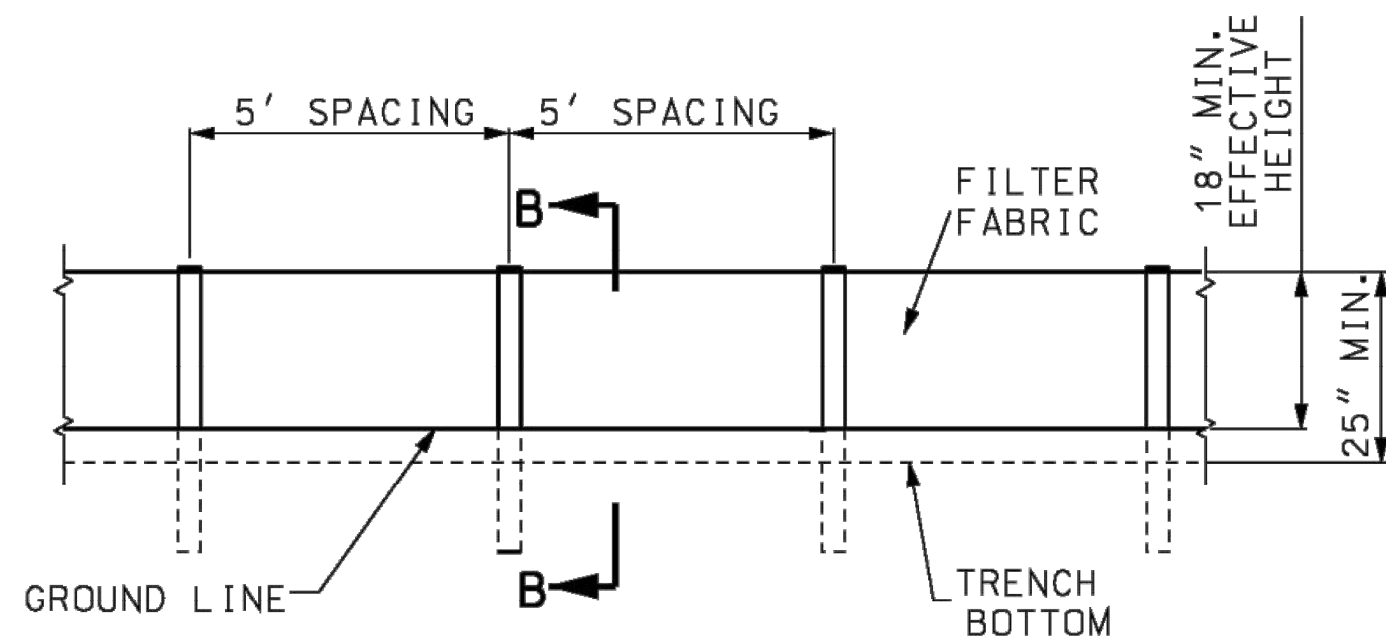
Apr 07, 2023 - 2:09pm Plotted By: jfield G:\Shared drives\K010 - Land Development\Projects\2023\21K010060 Cobey Creek Residential\01 CIVIL\03-DWG\Sheet\ModOT 150 HWY WIDENING\21K010060-01V-STD1-A.dwg Layout: ESC DETAILS - 3



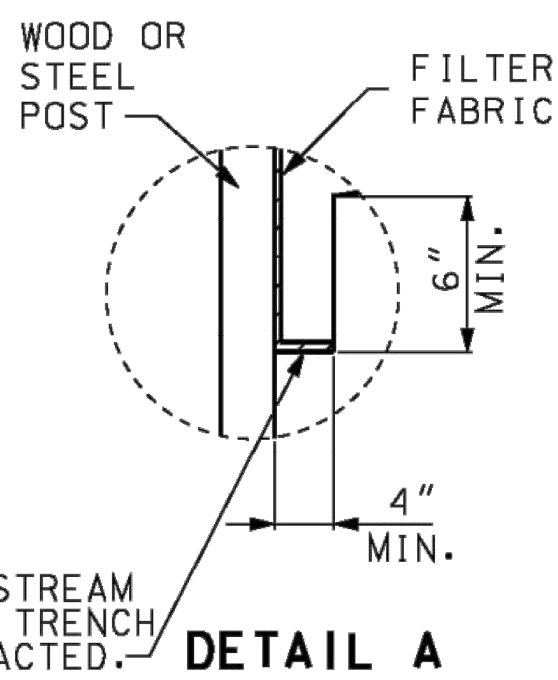
TYPICAL B-B



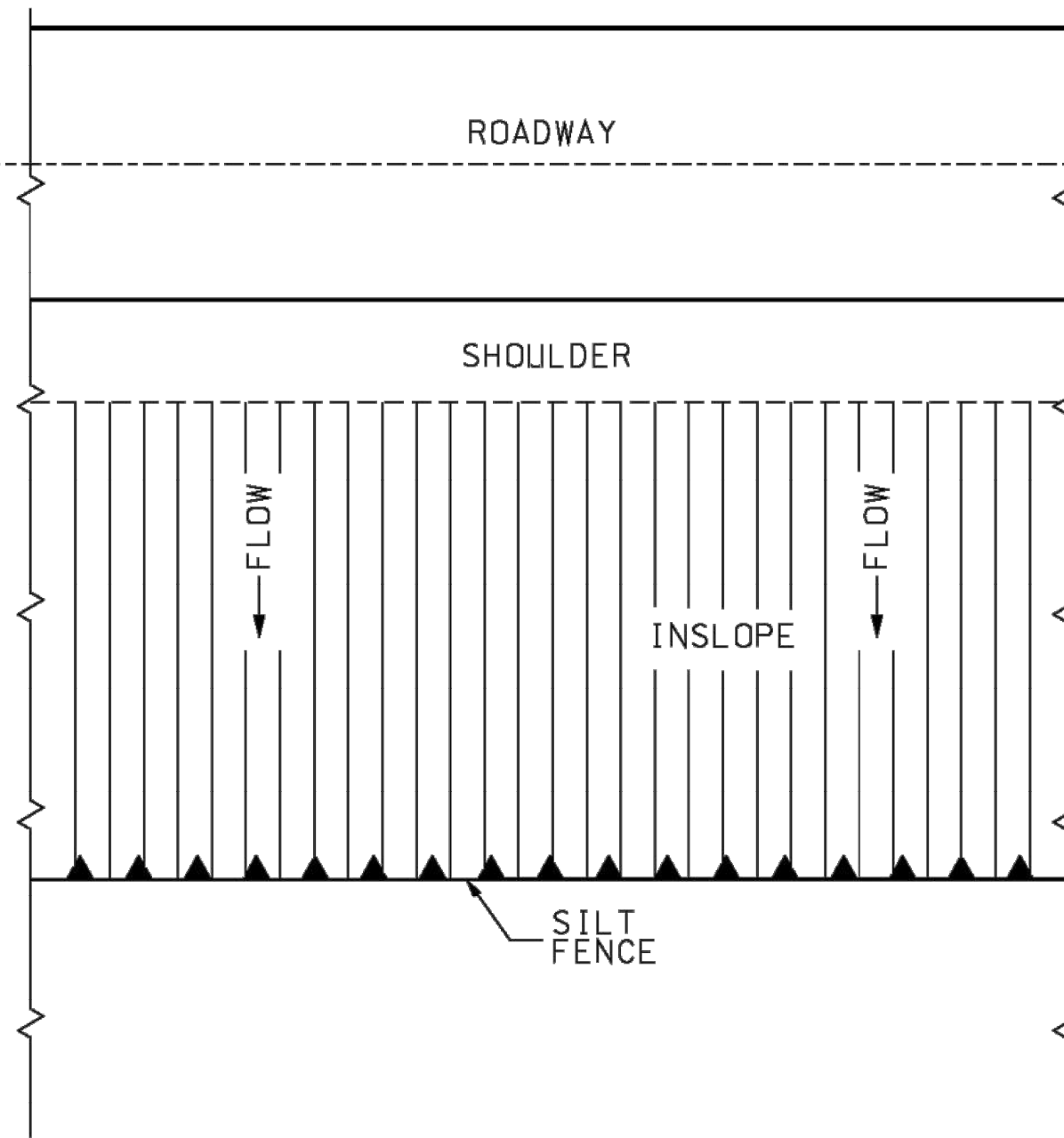
PLAN VIEW



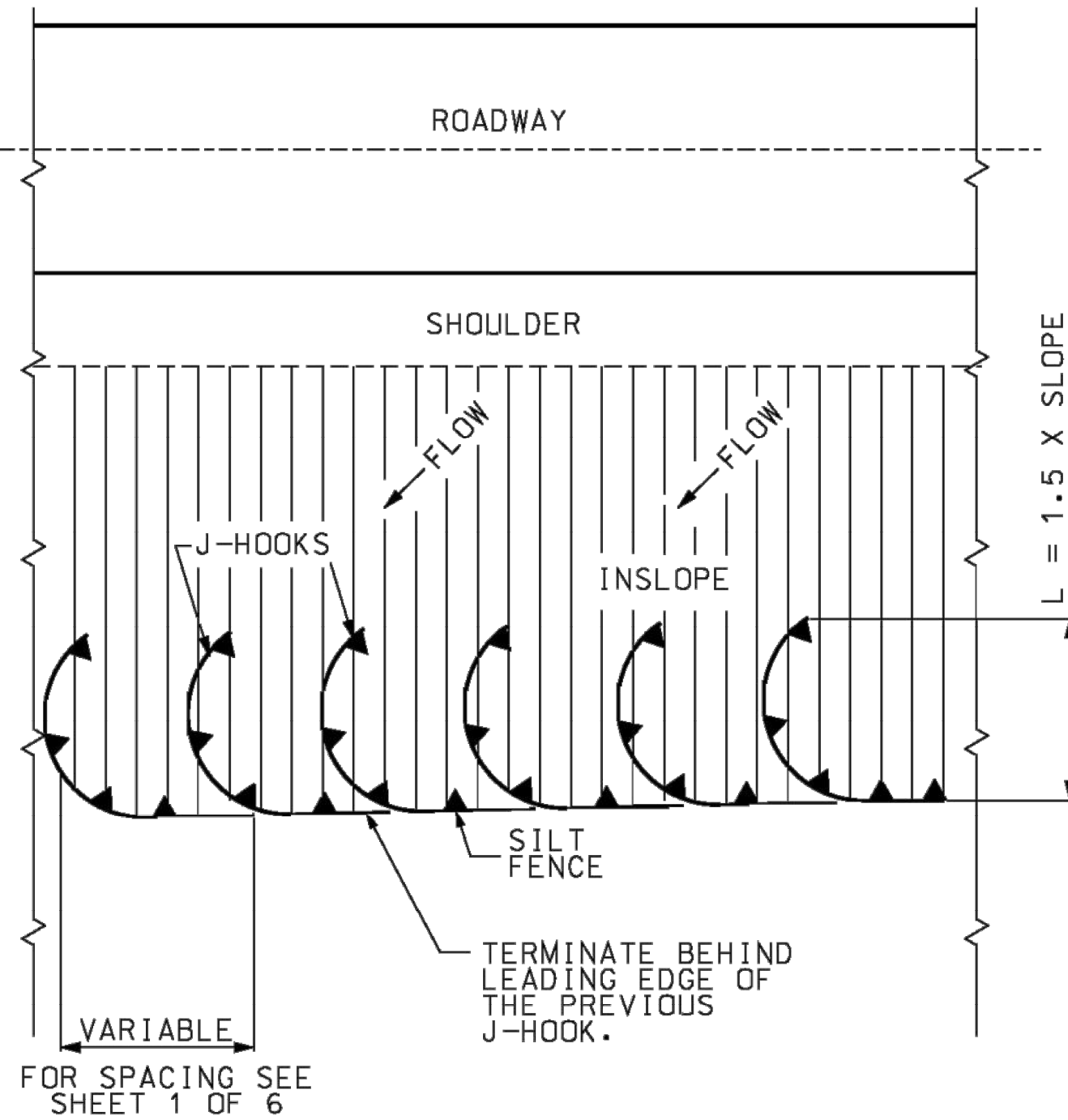
ELEVATION DETAIL
FABRIC SILT FENCE



DETAIL A



PERIMETER SILT FENCE
FOR TRANSVERSE FLOW



FOR SPACING SEE
SHEET 1 OF 6

PERIMETER SILT FENCE
FOR ANGULAR FLOW

GENERAL NOTES:

USE SILT FENCE FOR FILL HEIGHTS GREATER OR EQUAL TO 10 FEET. ON ALL FILLS GREATER THAN 10 FEET HIGH, MID-SLOPE RUNS OF SILT FENCE SHOULD BE CONSIDERED.

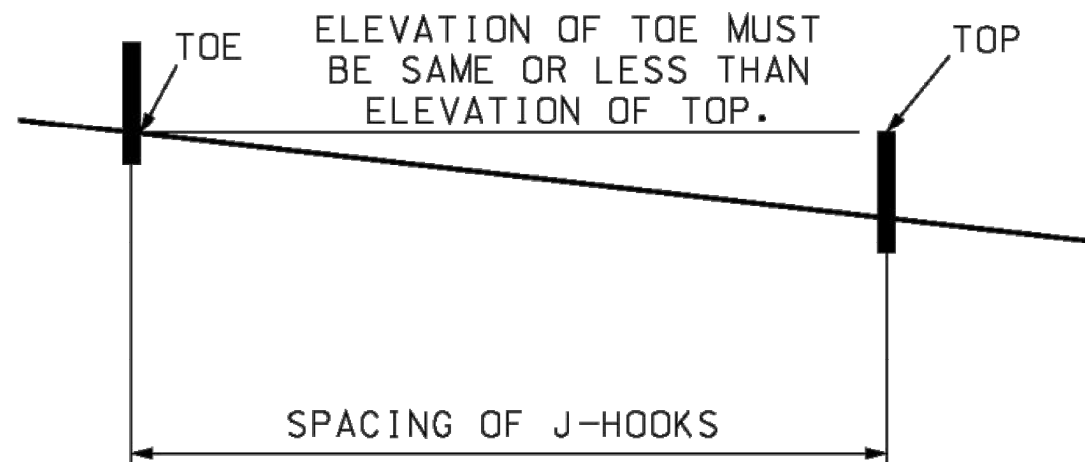
FOR FABRIC SILT FENCE:

MINIMUM LONGITUDINAL SPLICE OVERLAP SHALL BE 2' WITH A POST AT EACH END.

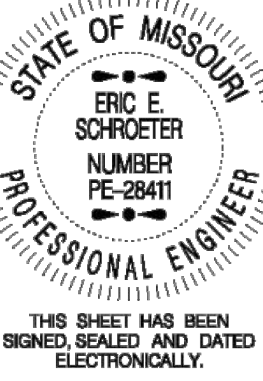
SECURE FABRIC TO POSTS.

INSTEAD OF SILT FENCE ACROSS DRAINAGE DITCHES AND DRAINS, DITCH CHECKS SHALL BE USED AS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER.

AT CULVERTS, PLACE SEDIMENT BARRIERS OVER THE TOP OF THE CULVERTS (NOT IN THE STREAM CHANNEL).



MINIMUM J-HOOK SPACING

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
 TEMPORARY EROSION CONTROL MEASURES SILT FENCE	
DATE EFFECTIVE: 04/01/2015 DATE PREPARED: 2/20/2015	806.10J SHEET NO. 5 OF 6

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1	PER MODOT COMMENT	JGD	09/13/22
2	PER MODOT COMMENT	JGD	11/11/22
3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23
		FOR REVIEW	04/07/22
		FIELD BOOK:	21K010060
		JOB NUMBER:	21K010060
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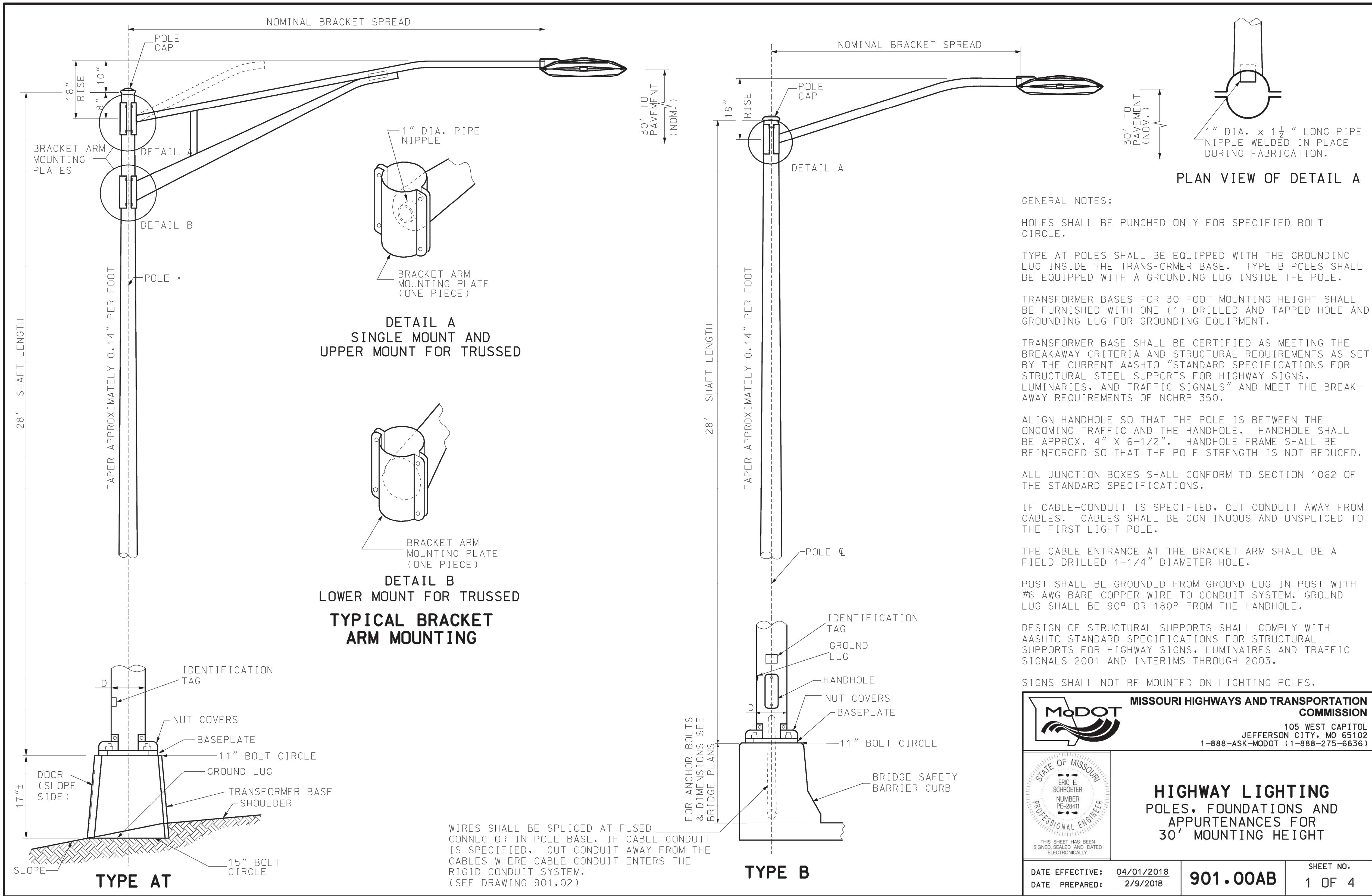
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

ESC DETAILS - 3

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

**PATRICK J. JOYCE**
NUMBER PE-2009030032
04/07/2023

Apr 07, 2023 - 2:05pm Plotted By: Jfield G:\Shared drives\K010 - Land Development\Projects\2023\21K010000 Cobey Creek Residential\01 CIVIL\03-DWG\Sheet\ModOT 150 HWY WIDENING\21K010000-01V-SPTD-5.dwg Layout: LIGHTING DETAIL-1



GENERAL NOTES:

HOLES SHALL BE PUNCHED ONLY FOR SPECIFIED BOLT CIRCLE.

TYPE AT POLES SHALL BE EQUIPPED WITH THE GROUNDING LUG INSIDE THE TRANSFORMER BASE. TYPE B POLES SHALL BE EQUIPPED WITH A GROUNDING LUG INSIDE THE POLE.

TRANSFORMER BASES FOR 30 FOOT MOUNTING HEIGHT SHALL BE FURNISHED WITH ONE (1) DRILLED AND TAPPED HOLE AND GROUNDING LUG FOR GROUNDING EQUIPMENT.

TRANSFORMER BASE SHALL BE CERTIFIED AS MEETING THE BREAKAWAY CRITERIA AND STRUCTURAL REQUIREMENTS AS SET BY THE CURRENT AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" AND MEET THE BREAK-AWAY REQUIREMENTS OF NCHRP 350.

ALIGN HANDHOLE SO THAT THE POLE IS BETWEEN THE ONCOMING TRAFFIC AND THE HANDHOLE. HANDHOLE SHALL BE APPROX. 4" X 6-1/2". HANDHOLE FRAME SHALL BE REINFORCED SO THAT THE POLE STRENGTH IS NOT REDUCED.

ALL JUNCTION BOXES SHALL CONFORM TO SECTION 1062 OF THE STANDARD SPECIFICATIONS.

IF CABLE-CONDUIT IS SPECIFIED, CUT CONDUIT AWAY FROM CABLES. CABLES SHALL BE CONTINUOUS AND UNSPLICED TO THE FIRST LIGHT POLE.

THE CABLE ENTRANCE AT THE BRACKET ARM SHALL BE A FIELD DRILLED 1-1/4" DIAMETER HOLE.

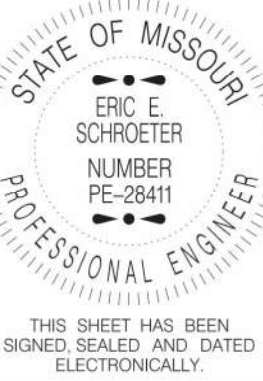
POST SHALL BE GROUNDED FROM GROUND LUG IN POST WITH #6 AWG BARE COPPER WIRE TO CONDUIT SYSTEM. GROUND LUG SHALL BE 90° OR 180° FROM THE HANDHOLE.

DESIGN OF STRUCTURAL SUPPORTS SHALL COMPLY WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS 2001 AND INTERIMS THROUGH 2003.

SIGNS SHALL NOT BE MOUNTED ON LIGHTING POLES.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



HIGHWAY LIGHTING POLES, FOUNDATIONS AND APPURTENANCES FOR 30' MOUNTING HEIGHT

DATE EFFECTIVE: 04/01/2018
DATE PREPARED: 2/9/2018

901.00AB

SHEET NO.
1 OF 4



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		DATE:	04/07/22
		FIELD BOOK:	FOR REVIEW
		JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

LIGHTING DETAIL-1

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



PATRICK J. JOYCE
NUMBER
PE-269903032
04/07/2023

SHEET NUMBER

52
52 OF 66



HOLES SHALL BE PUNCHED ONLY FOR SPECIFIED BOLT
CIRCLE.

TYPE AT POLES SHALL BE EQUIPPED WITH THE GROUNDING LUG INSIDE THE TRANSFORMER BASE. TYPE B POLES SHALL BE EQUIPPED WITH A GROUNDING LUG INSIDE THE POLE.

TRANSFORMER BASES FOR 30 FOOT MOUNTING HEIGHT SHALL BE FURNISHED WITH ONE (1) DRILLED AND TAPPED HOLE AND GROUNDING LUG FOR GROUNDING EQUIPMENT.

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THE CABLE ENTRANCE AT THE BRACKET ARM SHALL BE A
FIELD DRILLED 1-1/4" DIA. HOLE.

POST SHALL BE GROUNDED FROM GROUND LUG IN POST WITH #6 AWG BARE COPPER WIRE TO CONDUIT SYSTEM. GROUND LUG SHALL BE 90° OR 180° FROM THE HANDHOLE.

ID TAG HOLES SHALL BE DRILLED INTO POLE PRIOR TO GALVANIZING.

TYPE AT POLE

TYPE B POLE

TYPE B POLE				
BRACKET SPREAD		4'	6'	8'
MAX. LUMINAIRE WEIGHT		75 LB	75 LB	54 LB
MAX. PROJECTED AREA		3.3 SQ. FT.		
SINGLE BRACKET ARM				
LOCATION	LENGTH POLE	BRACKET SPREAD	D	ANCHOR BOLT DIA.
BRIDGE SAFETY BARRIER CURB	28'	4', 6' 8'	8"	1"

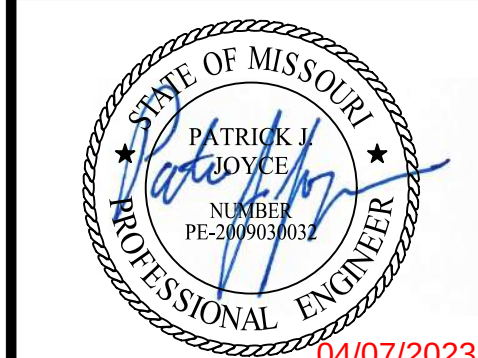
HIGHWAY LIGHTING

POLES, FOUNDATIONS AND APPURTENANCES FOR 30' MOUNTING HEIGHT

SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

LIGHTING DETAIL-2

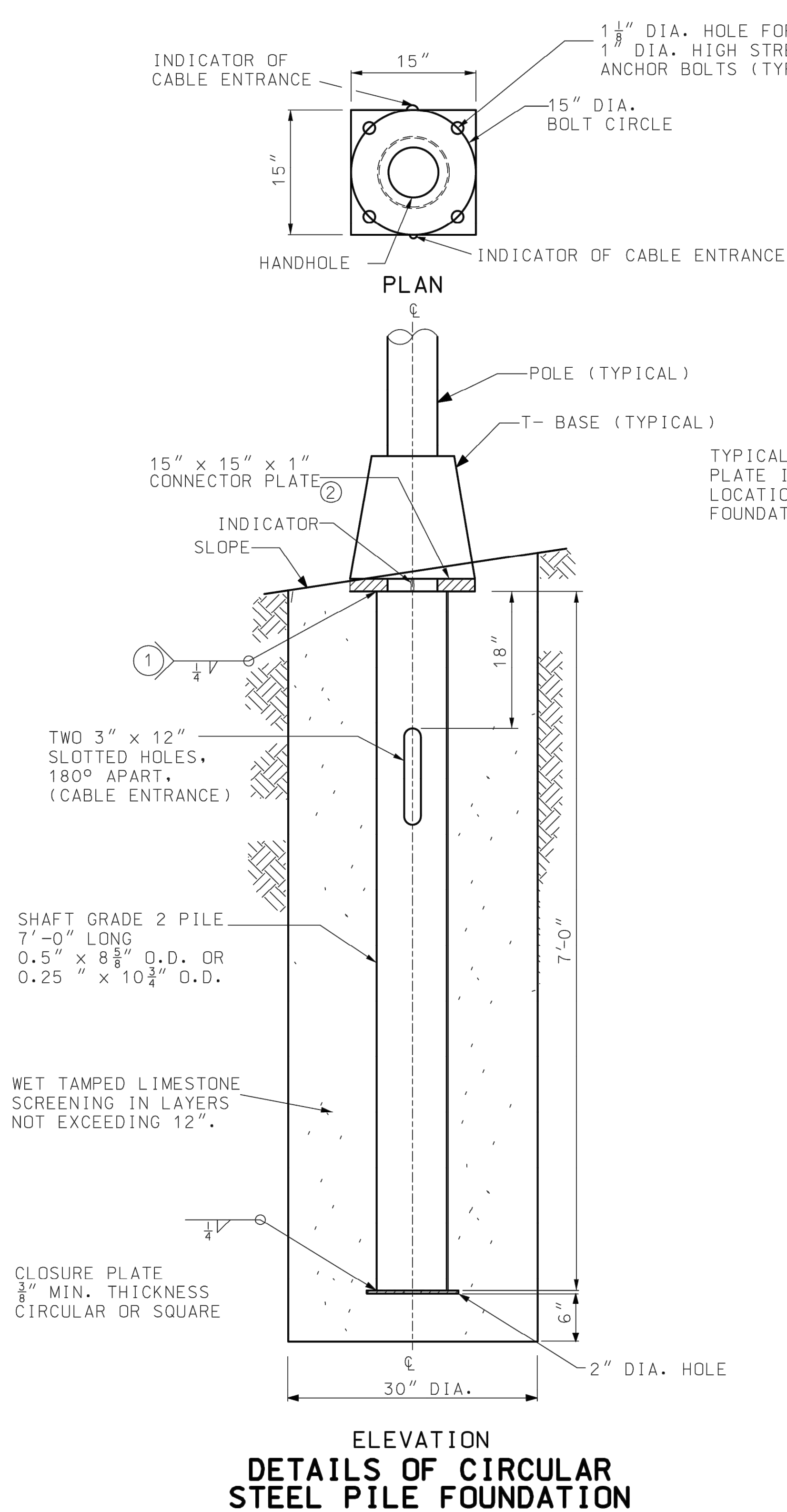
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LEE'S SUMMIT, JACKSON COUNTY, MO



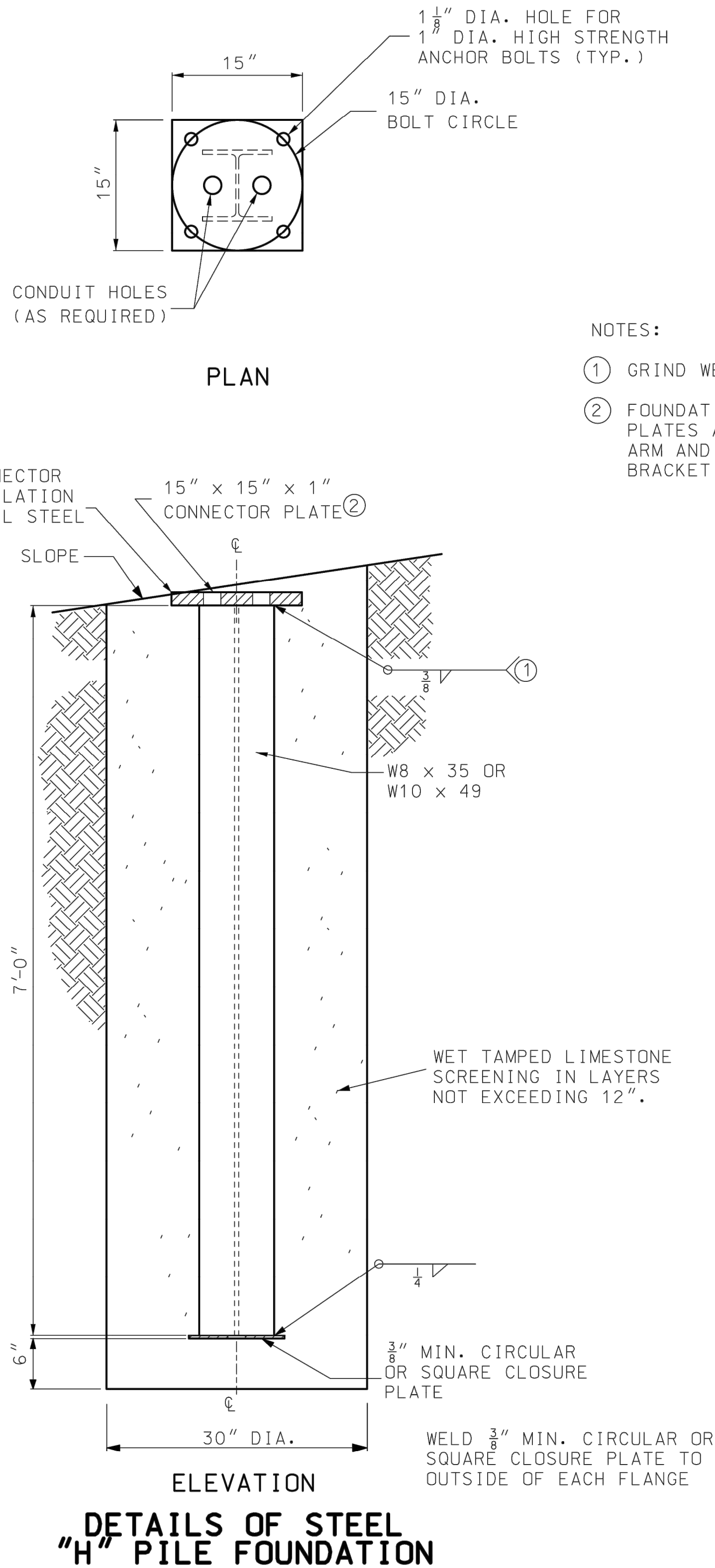
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53
53 OF 66

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3	PER MODOT COMMENT	JGD	04/07/22			PE-2009030032	
4	PER MODOT COMMENT	JGD	04/07/23			DATE:	04/07/22
						FIELD BOOK:	FOR REVIEW
						JOB NUMBER:	21KC10060
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ELEVATION
DETAILS OF CIRCULAR
STEEL PILE FOUNDATION



ELEVATION
DETAILS OF STEEL
"H" PILE FOUNDATION

NOTES:

- ① GRIND WELD AS NECESSARY TO CLEAR BOLT HEAD.
- ② FOUNDATIONS SHALL BE INSTALLED SO THAT CONNECTOR PLATES ARE LEVEL PERPENDICULAR TO THE BRACKET ARM AND SLOPED FOR POLE RAKING PARALLEL TO THE BRACKET ARM.

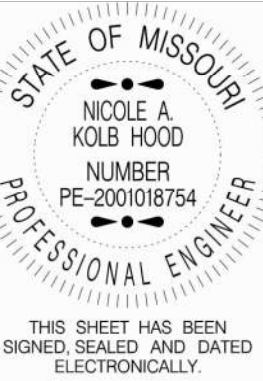
GENERAL NOTES:

ALL CLASSIFICATIONS ARE ASTM UNLESS OTHERWISE NOTED. SEE STANDARD SPECIFICATIONS FOR CLASSIFICATIONS NOT SHOWN.

ALL CONNECTOR PLATE AND CLOSURE PLATE THICKNESSES SHOWN ARE MINIMUM DIMENSIONS.

ALL ANCHOR BOLTS SHALL BE FULLY GALVANIZED 1" DIA. HIGH STRENGTH ANCHOR BOLTS.

ALL STEEL COMPONENTS SHALL BE HOT DIP GALVANIZED.

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
 STATE OF MISSOURI NICOLE A. KOLB HOOD NUMBER PE-2001018754 PROFESSIONAL ENGINEER THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	
HIGHWAY LIGHTING POLES, FOUNDATIONS AND APPURTENANCES FOR 30' MOUNTING HEIGHT	
DATE EFFECTIVE: 01/01/2021 DATE PREPARED: 10/14/2020	901.00AB
SHEET NO. 3 OF 4	

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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING
LIGHTING DETAIL-3
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



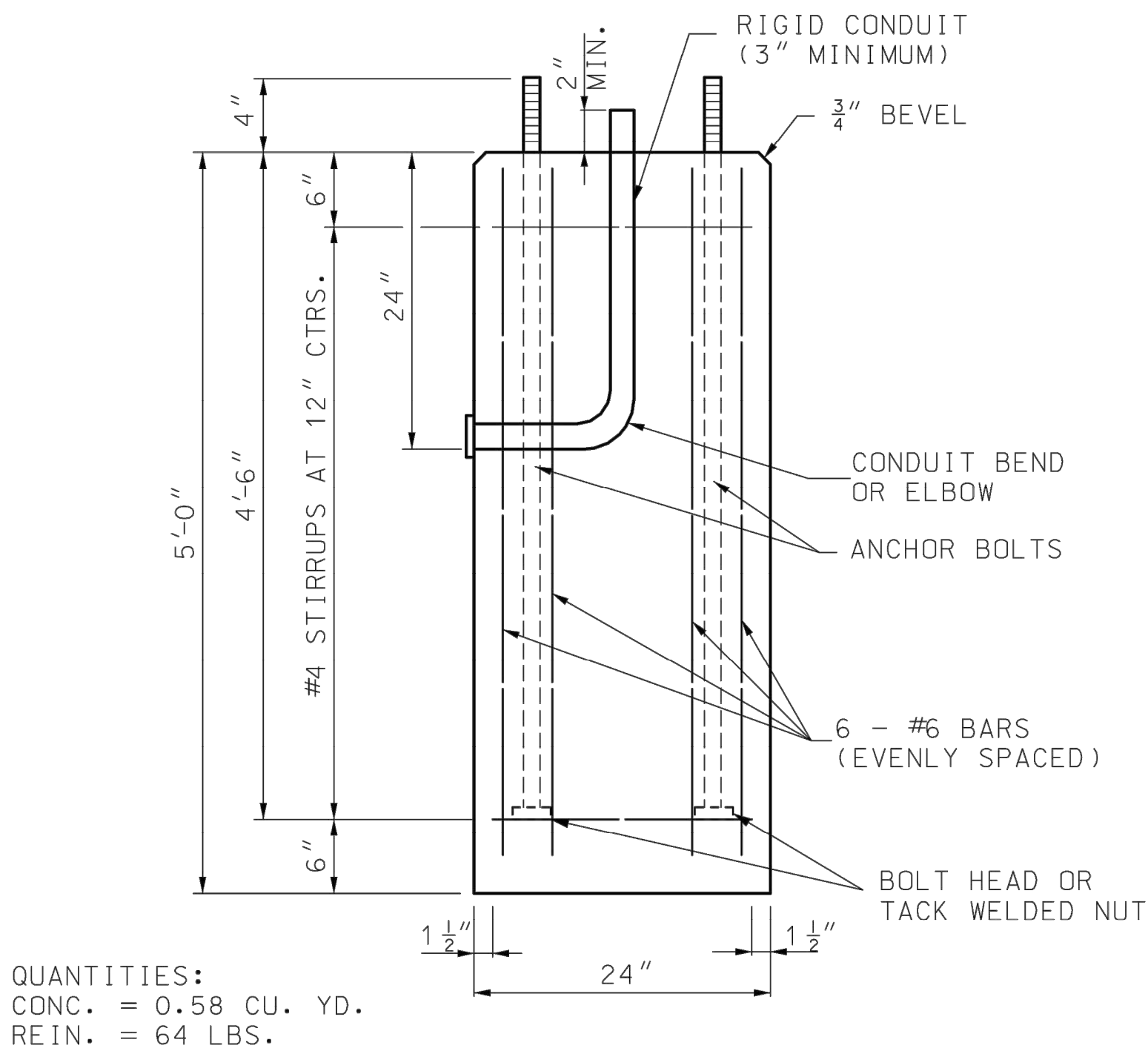
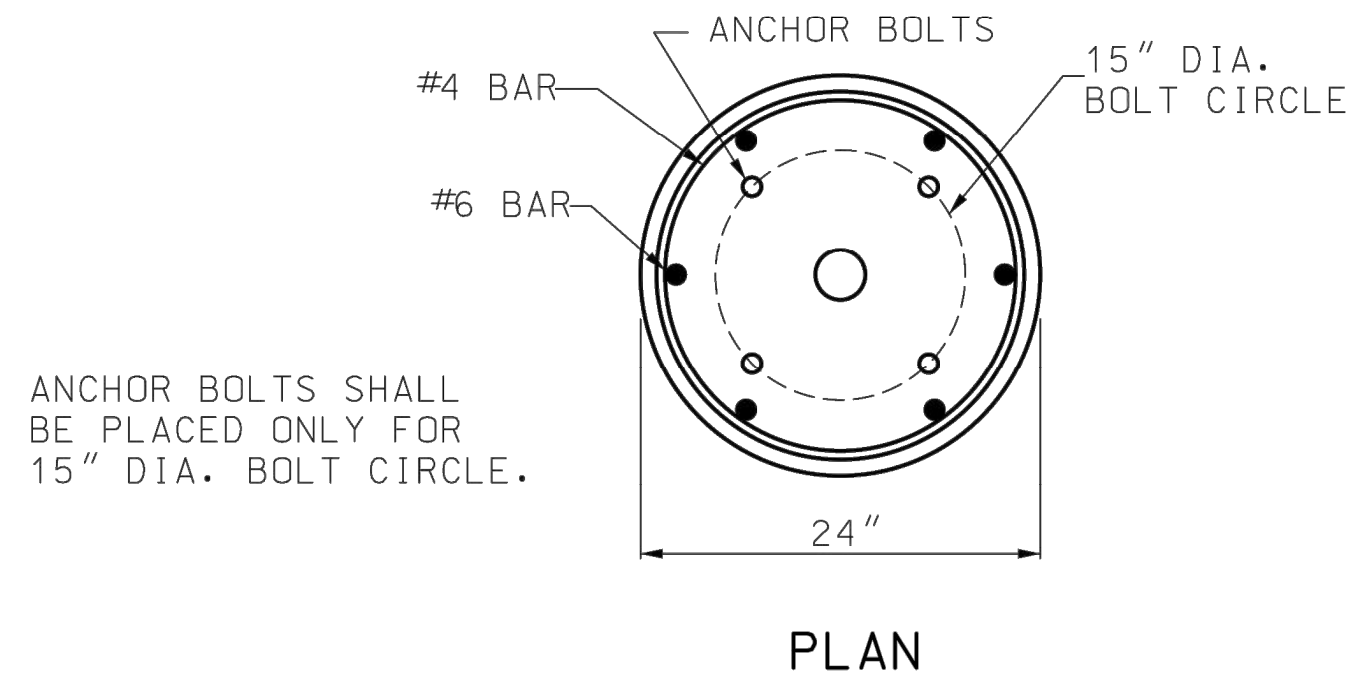
SHEET NUMBER

54
54 OF 66

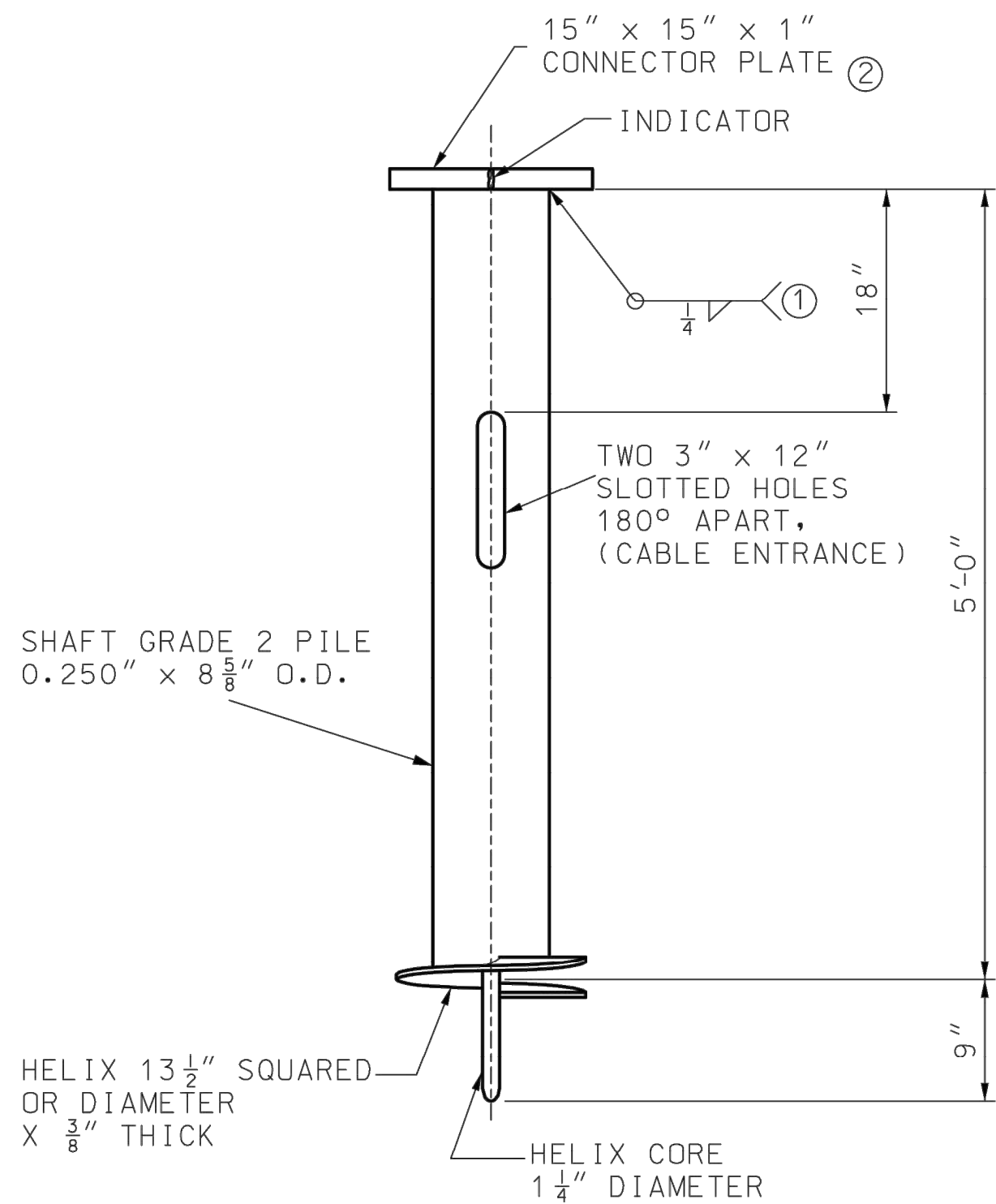
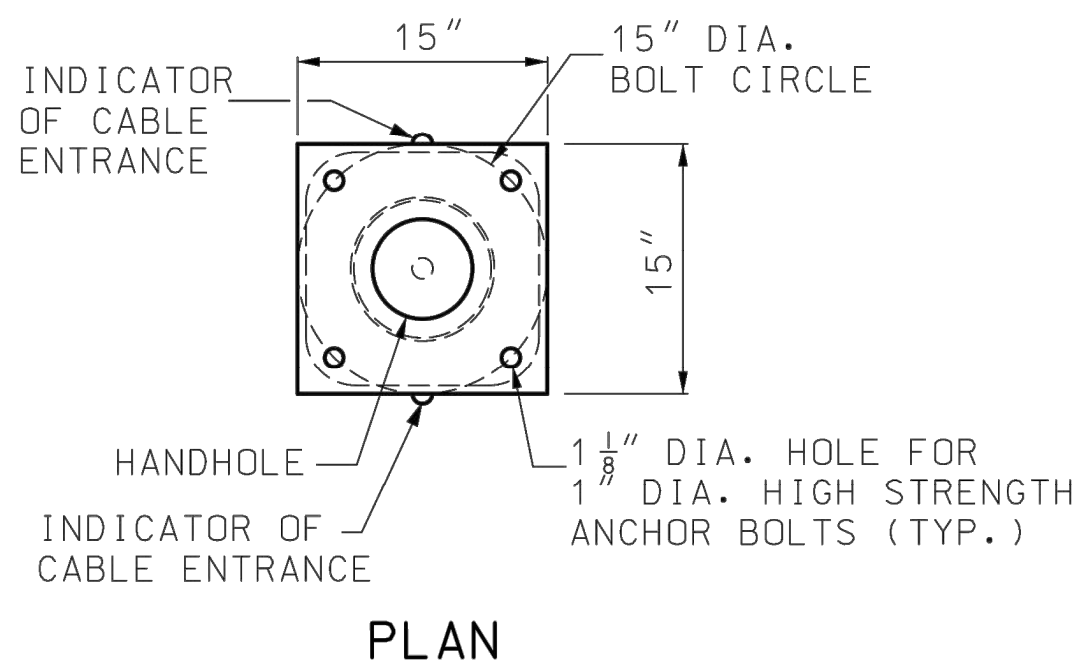
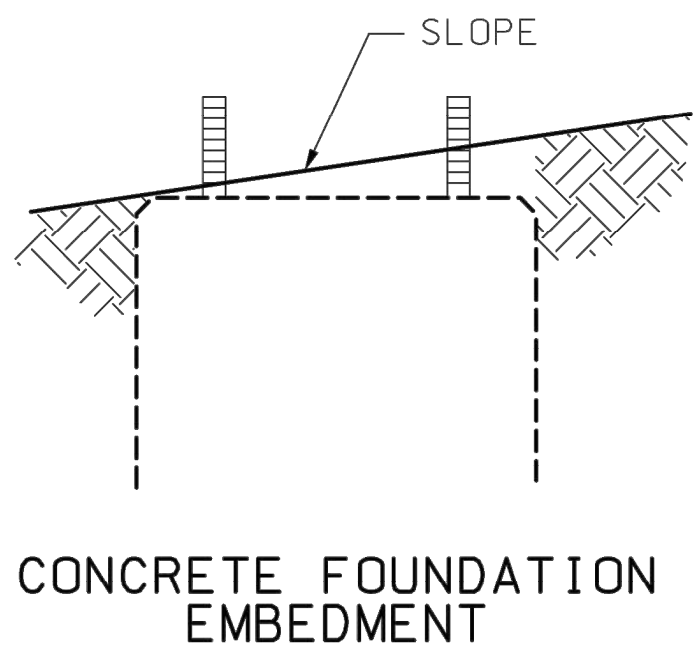
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		JOB NUMBER:	21KCI0060
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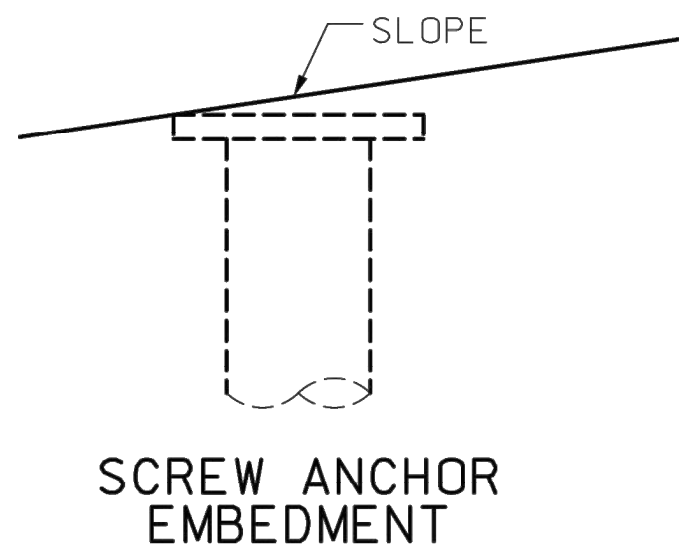
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DETAILS OF CONCRETE FOUNDATION ③



DETAILS OF SCREW ANCHOR FOUNDATION



DRIVE HOLES WILL BE PERMITTED PROVIDED THAT THEY DO NOT CONFLICT WITH OR COMPROMISE THE STRUCTURAL INTEGRITY OF THE PLATE. THE WELD BETWEEN THE PLATE AND SHAFT, OR THE BOLT HOLES.

NOTES:

- ① GRIND WELD AS NECESSARY TO CLEAR BOLT HEAD.
- ② FOUNDATIONS SHALL BE INSTALLED SO THAT CONNECTOR PLATES ARE LEVEL PERPENDICULAR TO THE BRACKET ARM AND SLOPED FOR POLE RAKING PARALLEL TO THE BRACKET ARM.
- ③ AT THE OPTION OF THE CONTRACTOR THE CONCRETE FOUNDATION MAY BE PRECAST. IF PRECAST, THEY SHALL BE SET IN DRILLED HOLES 3 FEET IN DIAMETER AND 6 INCHES DEEPER THAN THE BOTTOM OF THE CONCRETE FOUNDATION. THE BOTTOM 6 INCHES OF THE HOLE AND THE REMAINING SPACE AROUND THE FOUNDATION SHALL BE BACKFILLED WITH WET TAMPED LIMESTONE SCREENINGS IN LAYERS NOT EXCEEDING 12 INCHES.

GENERAL NOTES:

ALL CLASSIFICATIONS ARE ASTM UNLESS OTHERWISE NOTED. SEE STANDARD SPECIFICATIONS FOR CLASSIFICATIONS NOT SHOWN.

ALL CONNECTOR PLATE AND CLOSURE PLATE THICKNESSES SHOWN ARE MINIMUM DIMENSIONS.

ALL ANCHOR BOLTS SHALL BE FULLY GALVANIZED 1" DIA. HIGH STRENGTH ANCHOR BOLTS.

ALL STEEL COMPONENTS SHALL BE HOT DIP GALVANIZED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
NICOLE A. KOLB HOOD
NUMBER PE-2001018754
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE EFFECTIVE: 01/01/2021
DATE PREPARED: 10/14/2020

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SHEET NO.
4 OF 4

HIGHWAY LIGHTING
POLES, FOUNDATIONS AND
APPURTENANCES FOR
30' MOUNTING HEIGHT

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		JOB NUMBER:	21KC10060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

LIGHTING DETAIL-4

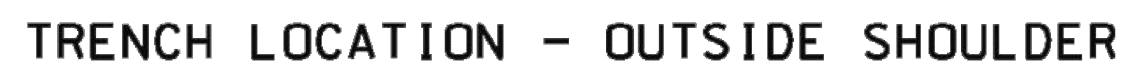
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STATE OF MISSOURI
PATRICK J. JOYCE
NUMBER PE-2009030032
PROFESSIONAL ENGINEER

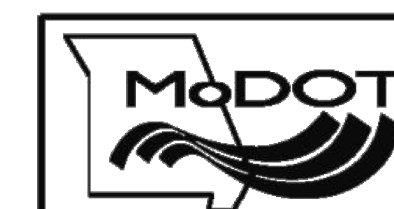
04/07/2023

SHEET NUMBER

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THE CONDUIT OF THE CABLE-CONDUIT SHALL BE CUT AWAY FROM THE CABLES WHERE THEY ENTER THE RIGID CONDUIT INSIDE A CONCRETE BARRIER OR STRUCTURE.



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HIGHWAY LIGHTING

DATE EFFECTIVE: 04/01/2002
DATE PREPARED: 3/10/2011

901.02B

SHEET NO.
1 OF 1

REVISIONS

SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

LIGHTING DETAIL-5

S 29, T47N, R31W
EE'S SUMMIT, JACKSON COUNTY, MO

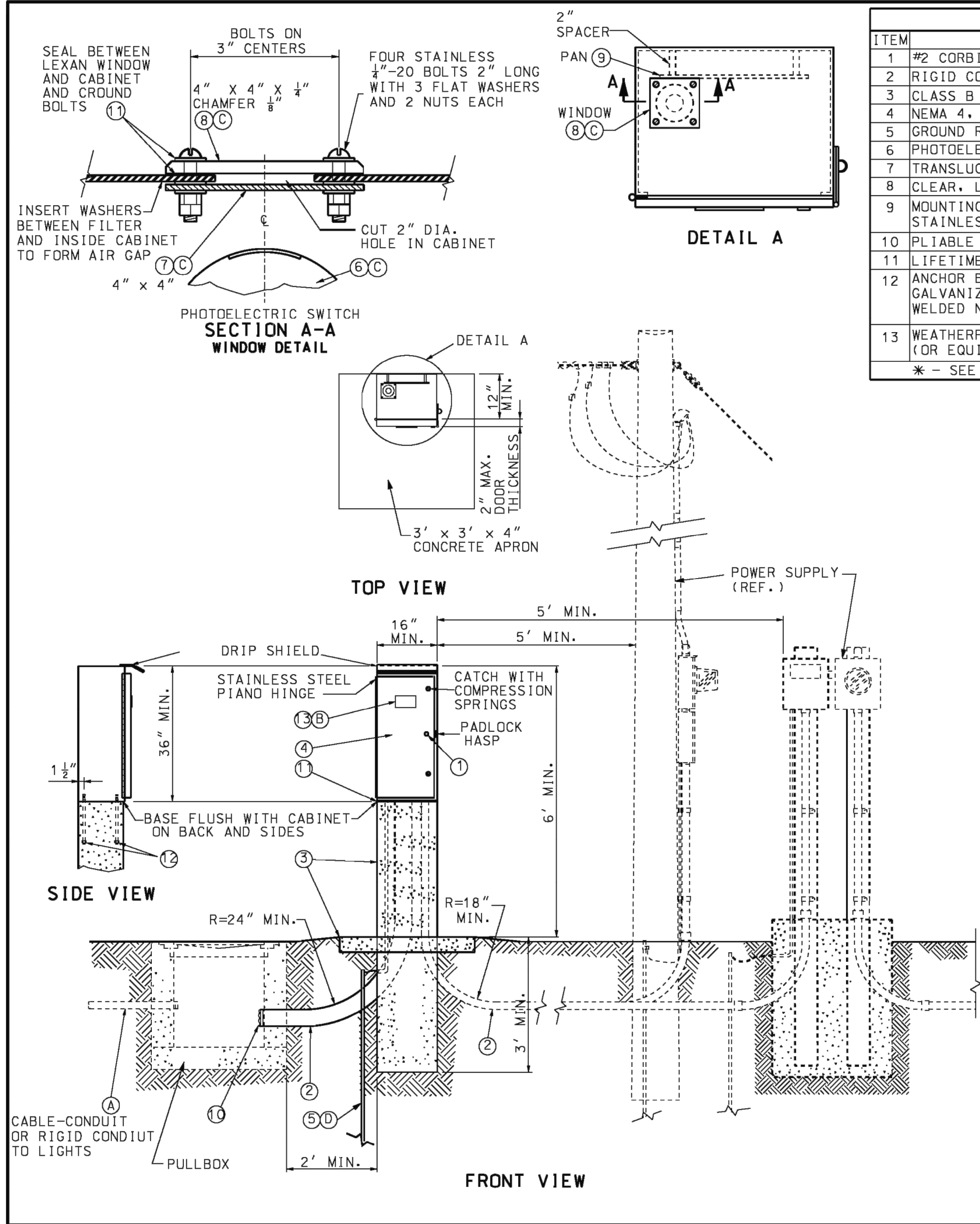


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LIST OF MATERIALS	
ITEM	DESCRIPTION
1	#2 CORBIN LOCK
2	RIGID CONDUIT *
3	CLASS B CONCRETE, 0.4 C.Y. ±
4	NEMA 4, DUST-TIGHT, WATERTIGHT, CABINET
5	GROUND ROD, 3/4" DIA. X 8' MIN.
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000-WATT
7	TRANSLUCENT, PLEXIGLASS FILTER #W2067, 1/8" THICK
8	CLEAR, LEXAN #9034 WINDOW, 1/4" THICK MIN.
9	MOUNTING PAN, 31 1/2" X 12" X 1/4" ALUMINUM OR STAINLESS STEEL
10	PLIABLE DUCT SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 X 14" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED, USE BOLT HEAD OR TACK WELDED NUT ON EMBEDDED END
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
* - SEE PLANS	

- NOTES
- (A) IF CABLE-CONDUIT IS SPECIFIED, THE CONDUIT SHALL BE CUT AWAY FROM CABINET BETWEEN PULL BOX AND CONTROL STATION.
- (B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.
- (C) PHOTOELECTRIC SWITCH BRACKETS MAY VARY. LOCATE CENTER OF WINDOW OVER CENTER OF PHOTOELECTRIC SWITCH.
- (D) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

GENERAL NOTES:

ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.

PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.

CABINET SHALL BE LOCATED AWAY FROM TRAFFIC. TOP MOUNT PHOTO CONTROL SHALL FACE AN OPEN SKY. SIDE MOUNT PHOTO CONTROL SHALL FACE NORTH.

SEE PLANS FOR CIRCUIT WIRING; MAXIMUM LOADING PER CIRCUIT IS 7,400 WATTS FOR 240 VOLT AND 11,000 WATTS FOR 480 VOLT.

SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.

THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.

ALL OPENINGS IN CABINET SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.

ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON DRAWING SHALL BE INCLUDED IN PRICE BID FOR CONTROL STATION.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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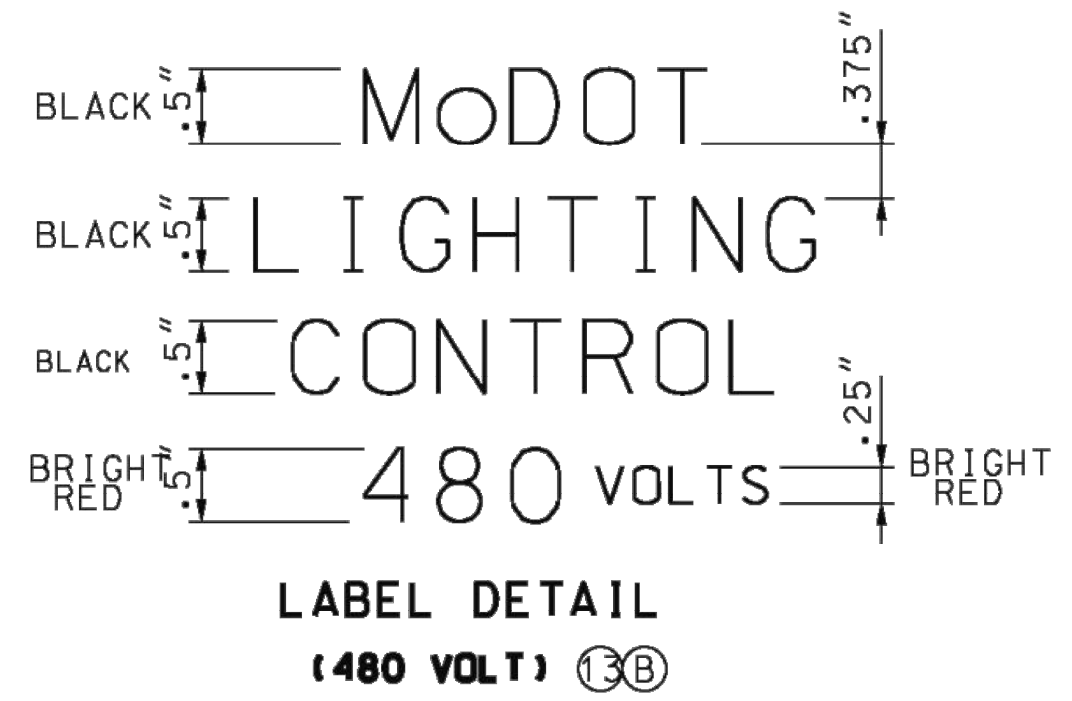
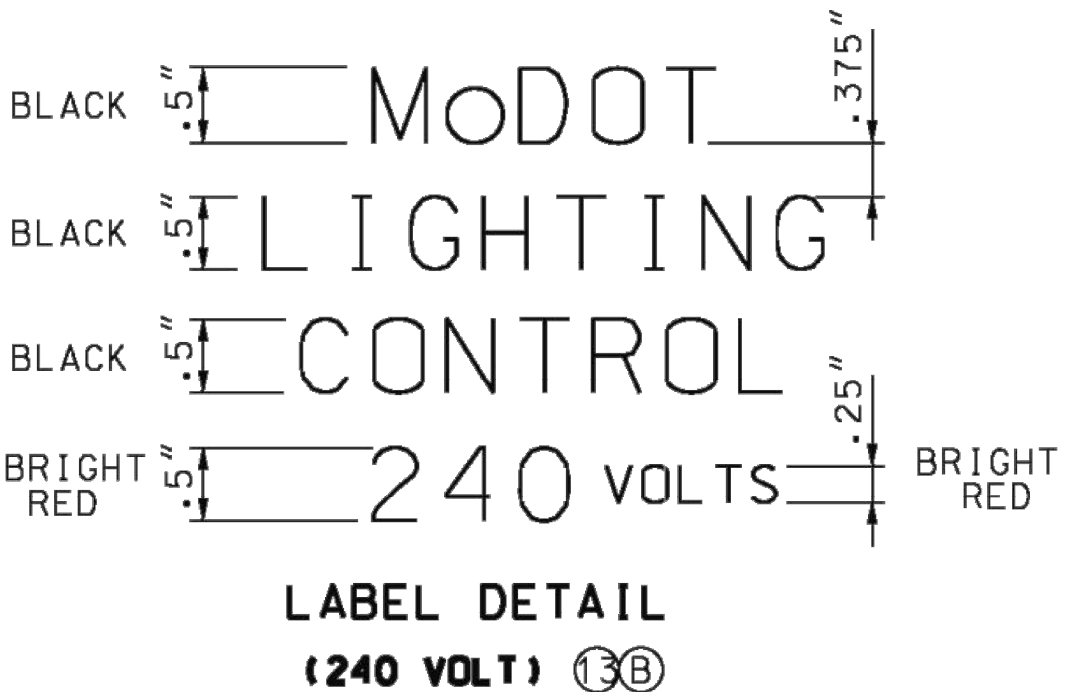


**HIGHWAY LIGHTING
BASE MOUNTED
CONTROL STATION
240 V OR 480 V - 4 CIRCUIT**

DATE EFFECTIVE: 04/01/2005
DATE PREPARED: 9/14/2010

901.30F

SHEET NO.
1 OF 2



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1	PER MODOT COMMENT	JGD	09/13/22
2	PER MODOT COMMENT	JGD	11/11/22
3	PER MODOT COMMENT	JGD	07/19/23
4	PER MODOT COMMENT	JGD	04/07/23
		DATE:	04/07/22
		FIELD BOOK:	FOR REVIEW
		JOB NUMBER:	21K010060
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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

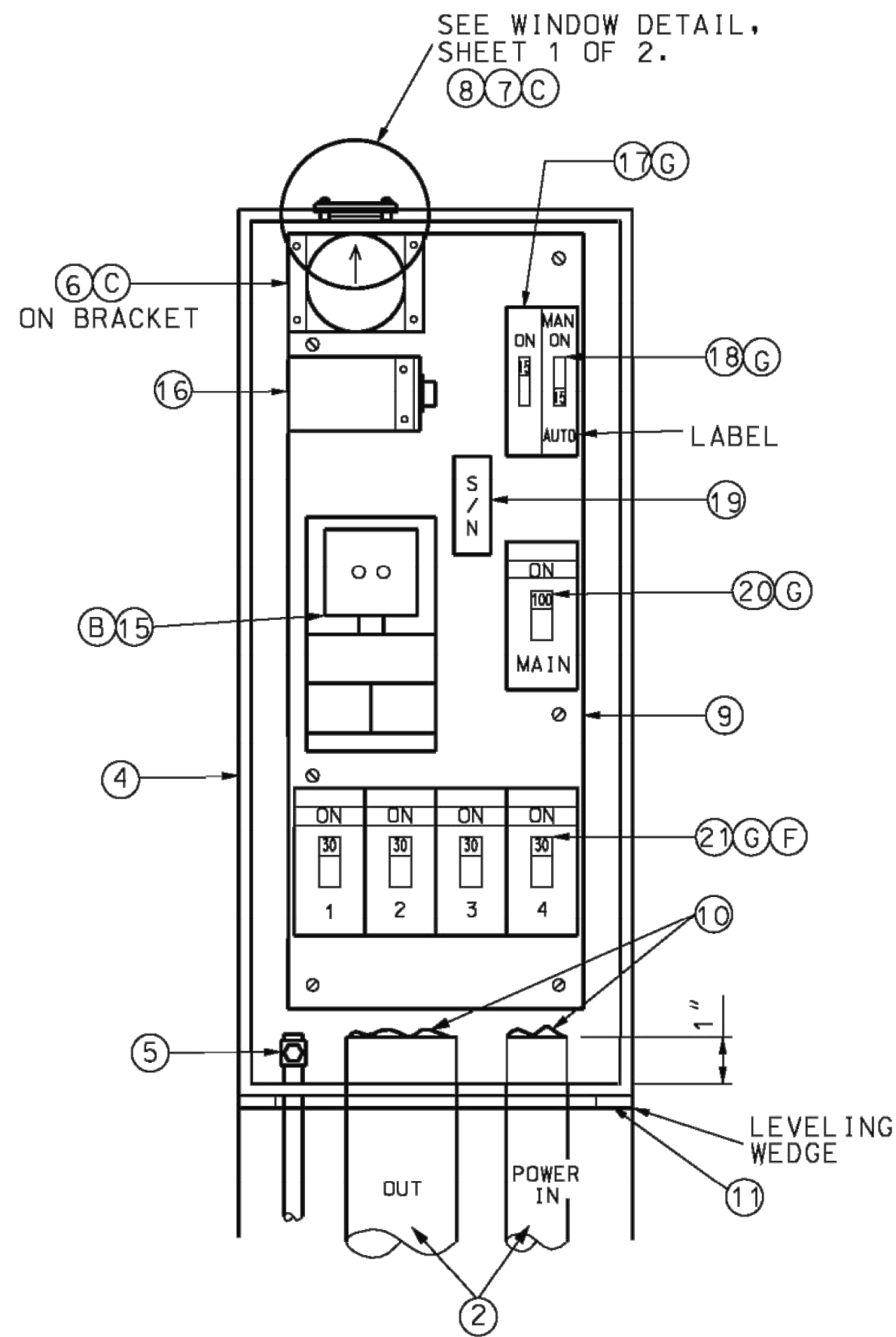
LIGHTING DETAIL-6

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

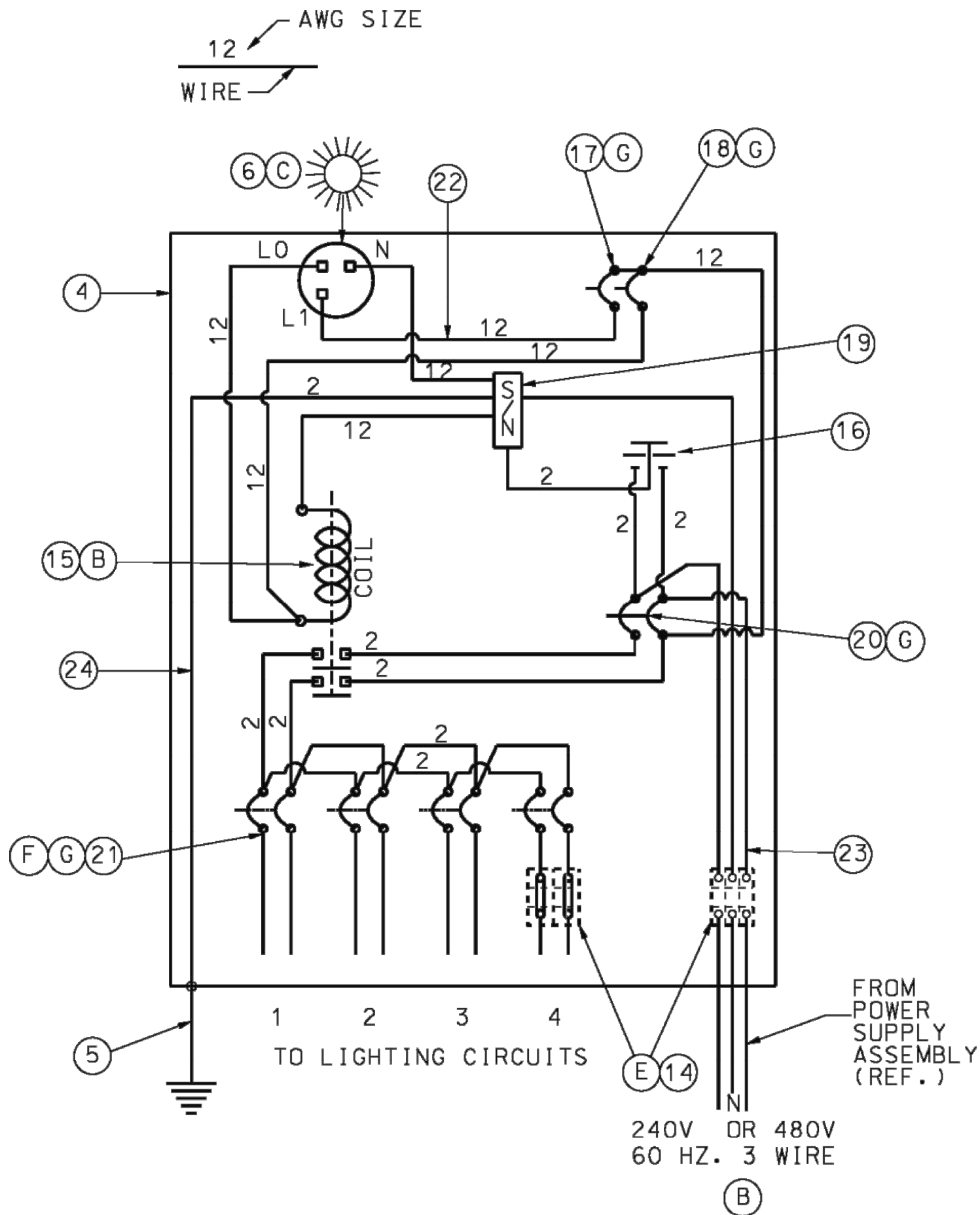


PATRICK J. JOYCE
NUMBER
PE-260903032

04/07/2023



EQUIPMENT LAYOUT



WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
2	RIGID CONDUIT *
4	NEMA 4, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. X 8' MIN.
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	TRANSLUCENT, PLEXIGLASS FILTER #W2067, 1/8" THICK
8	CLEAR, LEXAN #9034 WINDOW, 1/4" THICK MIN.
9	MOUNTING PAN, 31 1/2" X 12" X 1/4" ALUMINUM OR STAINLESS STEEL
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
14	INSULATED TERMINAL BLOCK, FOR GREATER THAN 4/0 CABLE
15(240V)	2-POLE, 100 AMP, 120V COIL LIGHTING CONTACTOR
15(480V)	2-POLE, 100 AMP, 240V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTING ARRESTER
17	1-POLE, 15 AMP, TYPE B CONTROL BREAKER
18	1-POLE, 15 AMP, TYPE B MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, 100 AMP, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP(MIN), TYPE A LIGHTING BREAKERS
22	#12 AWG MIN., 600 V. CONTROL CABLE
23	#2 AWG MIN., 600 V. * POWER CABLE
24	#2 AWG MIN., 600 V. GROUND CABLE
*	SEE PLANS

NOTES

- (B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.
- (C) PHOTOELECTRIC SWITCH BRACKETS MAY VARY. LOCATE CENTER OF WINDOW OVER CENTER OF PHOTOELECTRIC SWITCH.
- (E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN THE BREAKER LUGS CAN ACCOMMODATE, AN INSULATED HEAVY DUTY TERMINAL BLOCK SHALL BE INSTALLED TO TERMINATE THE LARGER WIRES AND A SMALLER JUMPER CONNECTED TO THE BREAKER ITSELF.
- (F) LIGHTING BREAKER SIZING:
- | SIZE (AMPS) | 240V TOTAL CIRCUIT LOAD (WATTS) | 480V TOTAL CIRCUIT LOAD (WATTS) |
|-------------|---------------------------------|---------------------------------|
| 15 | 0-2800 | 0 - 5500 |
| 20 | 2850-3700 | 5550 - 7400 |
| 25 | 3750-4600 | 7450 - 9200 |
| 30 | 4650-5500 | 9250 - 11,000 |
| 35 | 5550-6500 | --- |
| 40 | 6550-7400 | --- |
- CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.
- (G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
 HIGHWAY LIGHTING BASE MOUNTED CONTROL STATION 240 V OR 480 V - 4 CIRCUIT	
DATE EFFECTIVE: 04/01/2005 DATE PREPARED: 8/26/2009	901.30F
SHEET NO. 2 OF 2	

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SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

LIGHTING DETAIL-7

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO



SHEET NUMBER

58
58 OF 66



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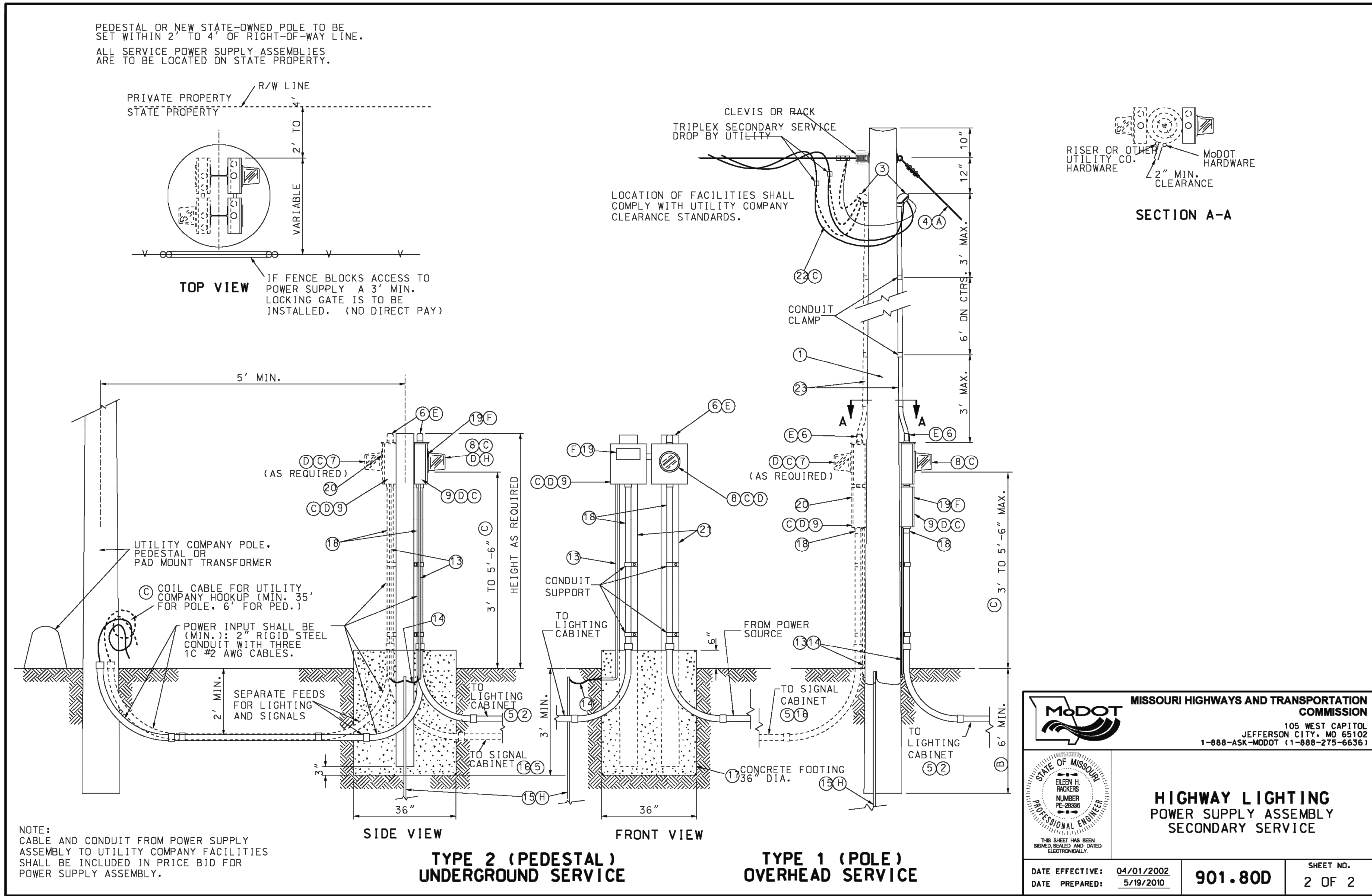
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CHECK BY:	PJJ
LICENSE NO.	PE-2009030032
DATE:	04/07/22
FIELD BOOK:	FOR REVIEW
JOB NUMBER:	21K010060

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4	PER MODOT COMMENT	JGD	04/07/23

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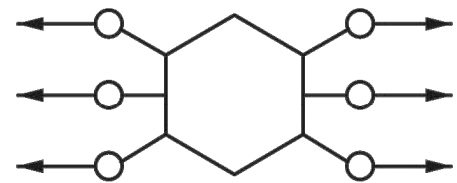
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

LIGHTING DETAIL-9

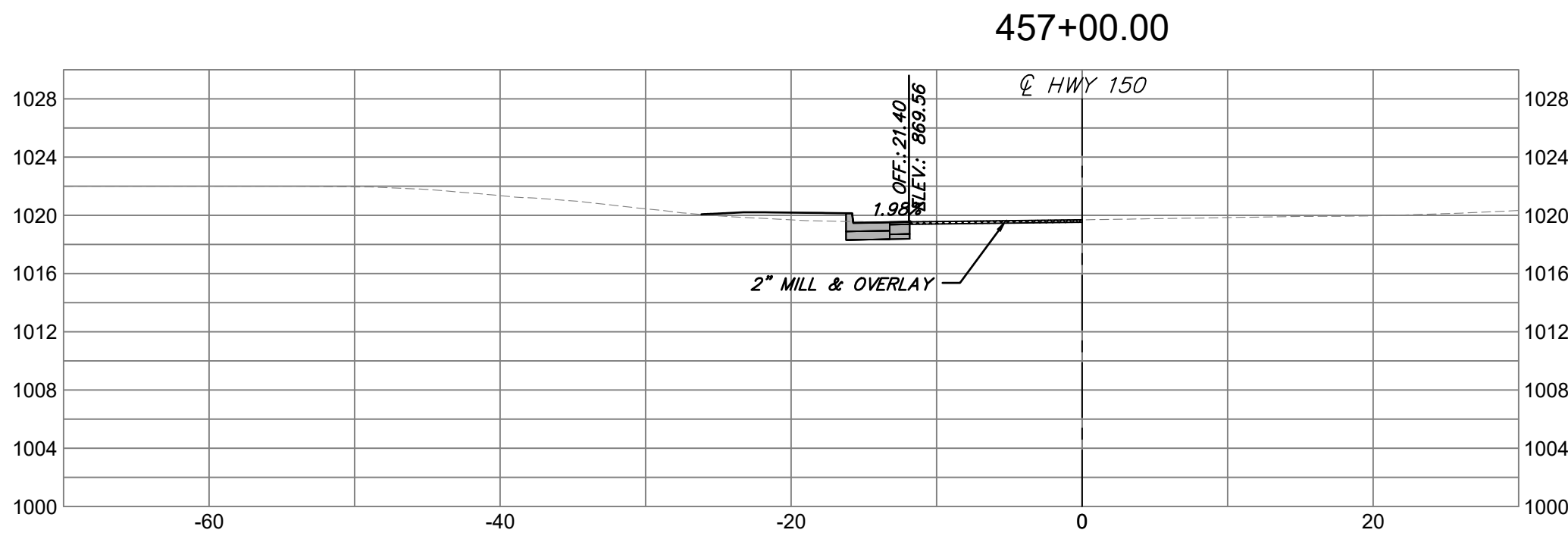
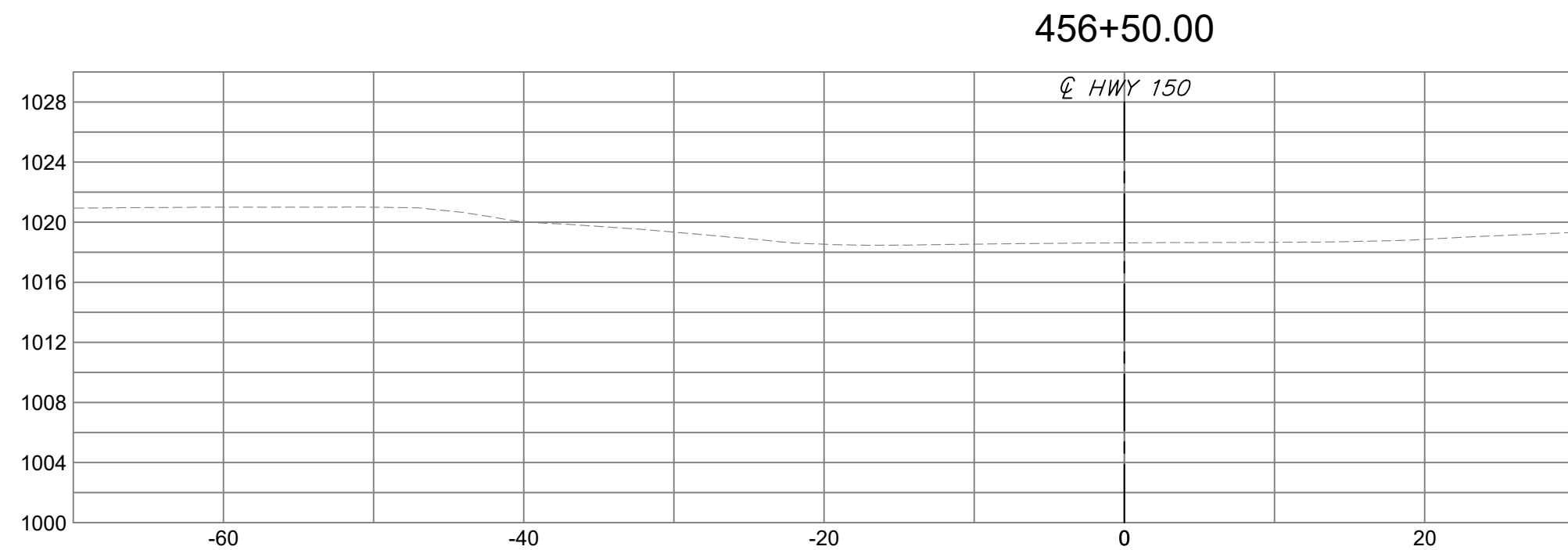
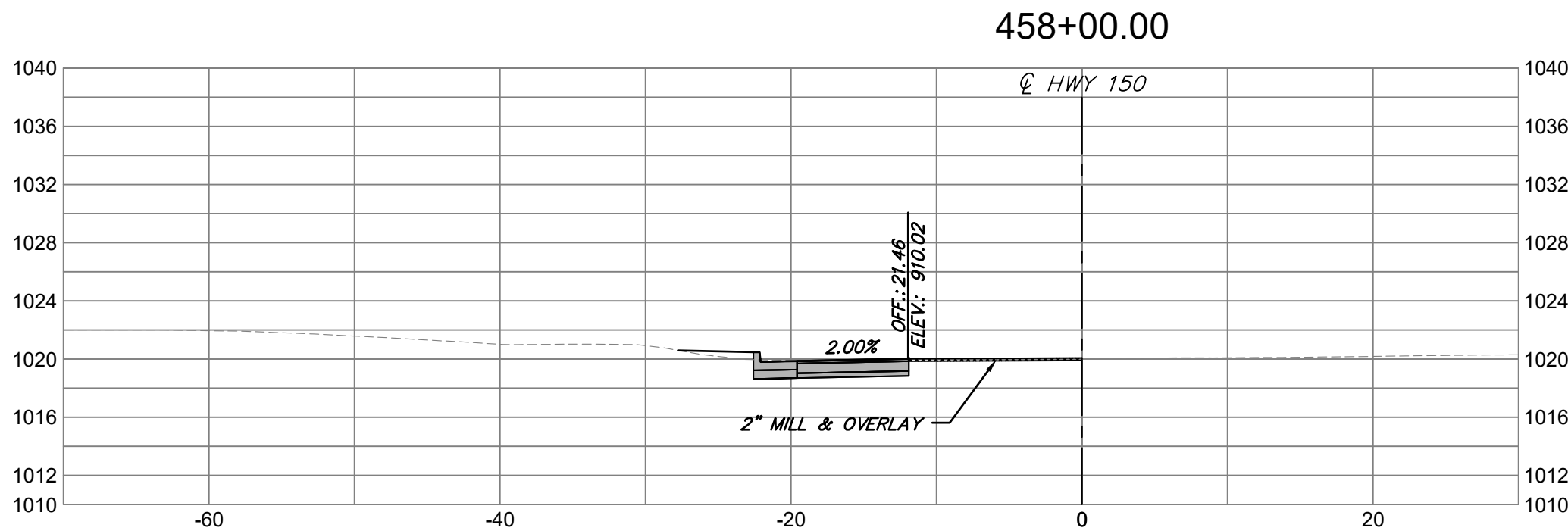
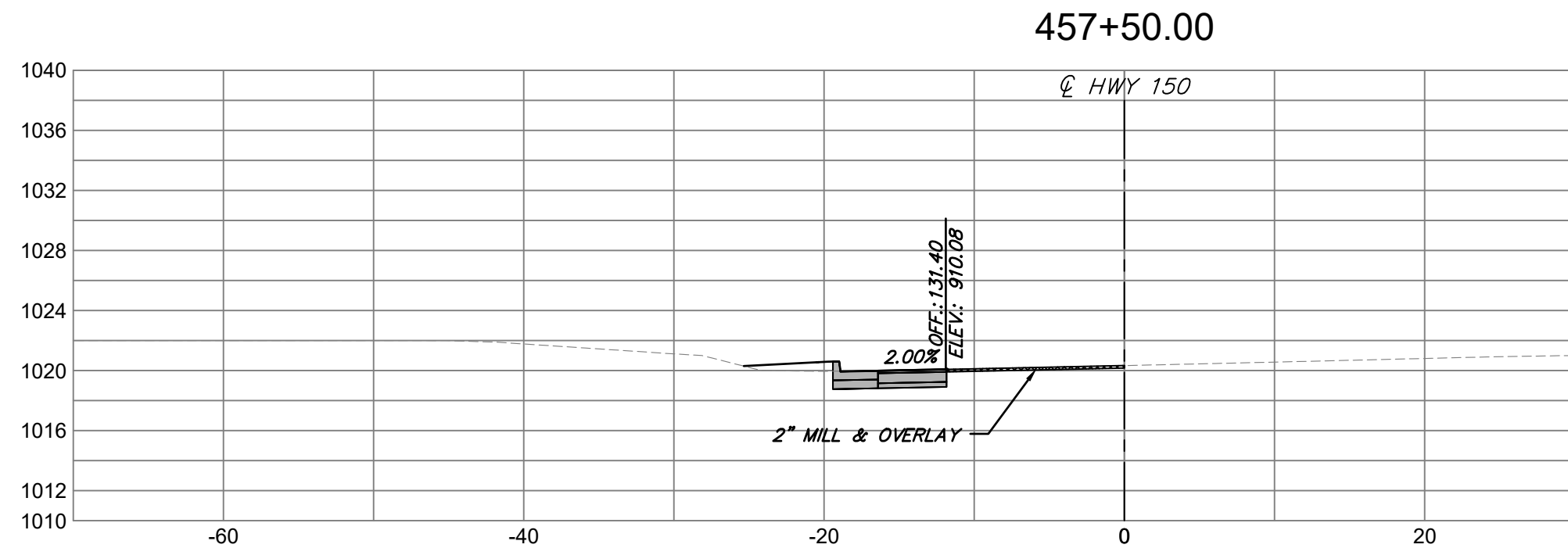
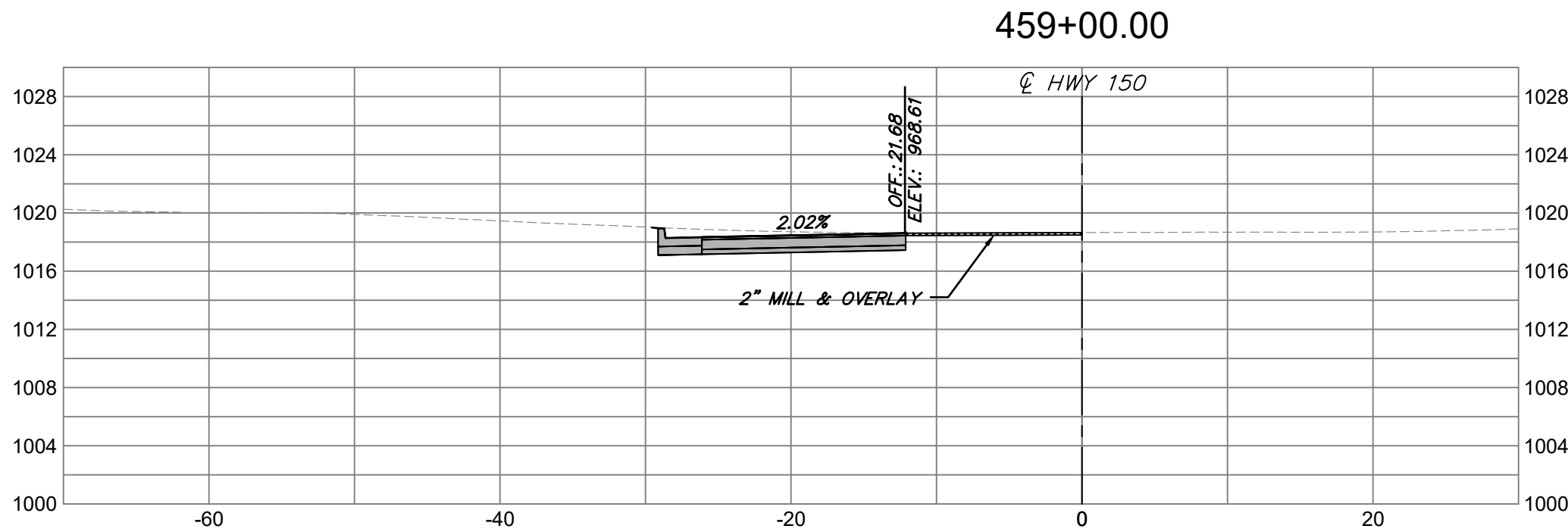
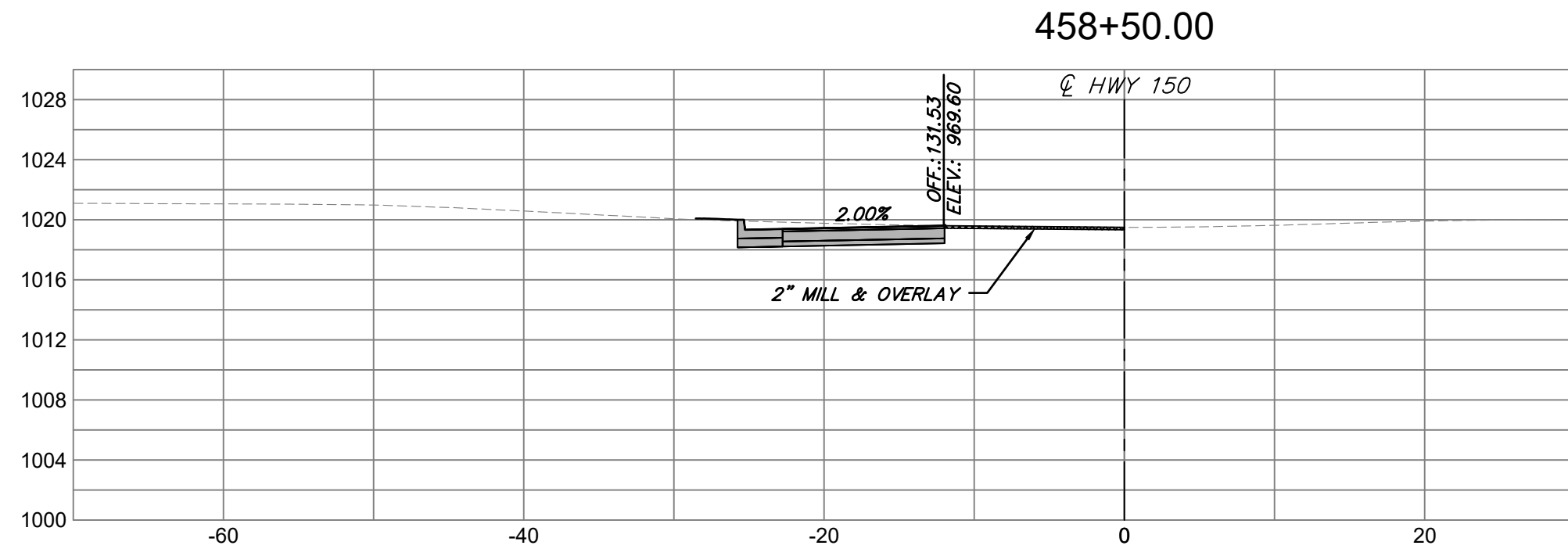
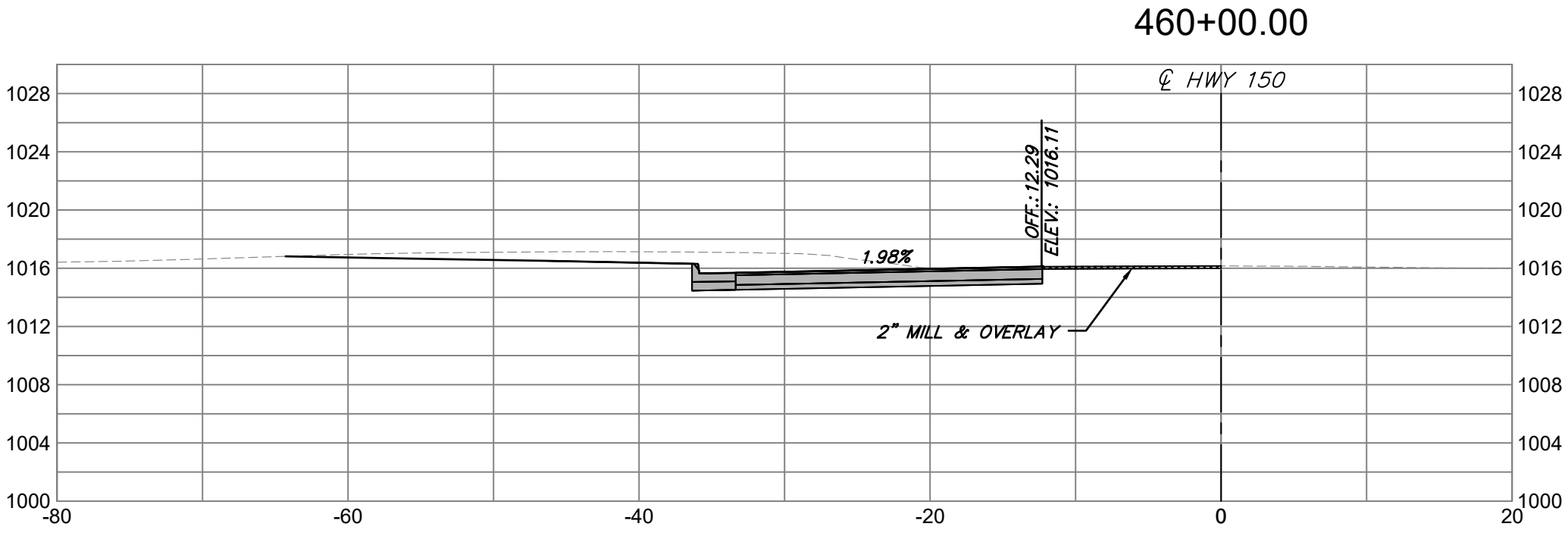
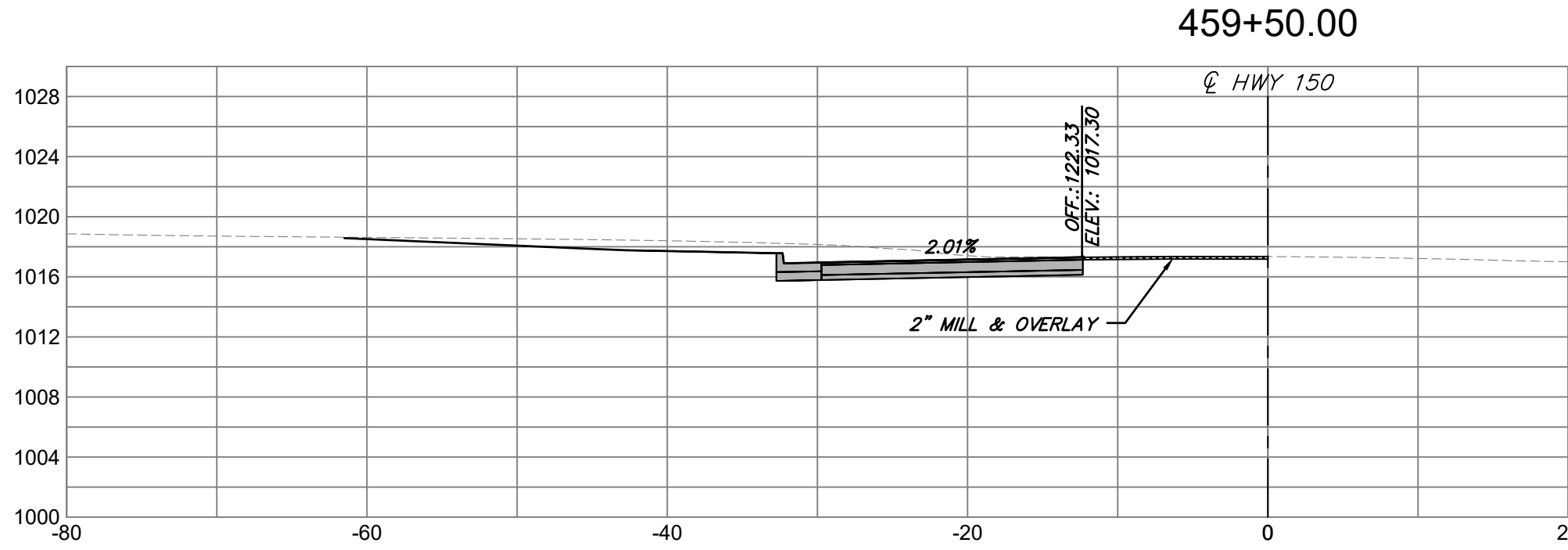
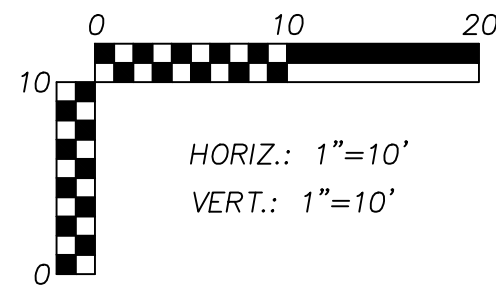
S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PROFESSIONAL ENGINEER
PATRICK J. ROYCE
NUMBER
PE-2009030032
04/07/2023

SHEET NUMBER
60
60 OF 66



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SUMMIT HOMES
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MODOT STATE HWY 150 WIDENING

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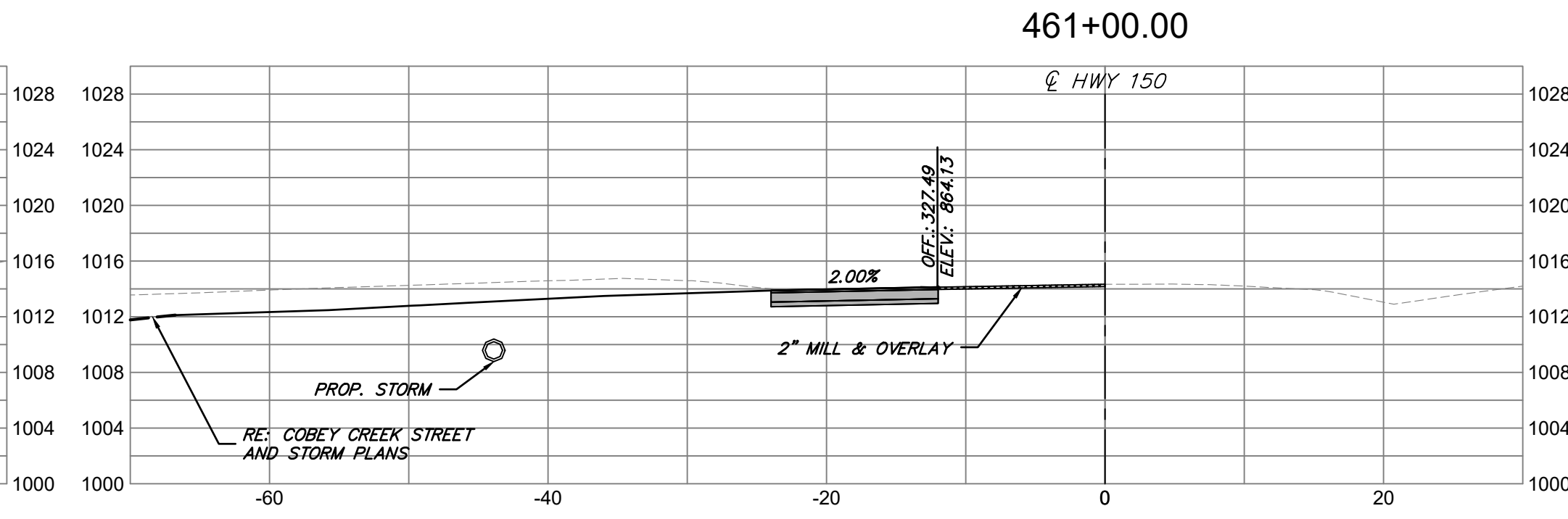
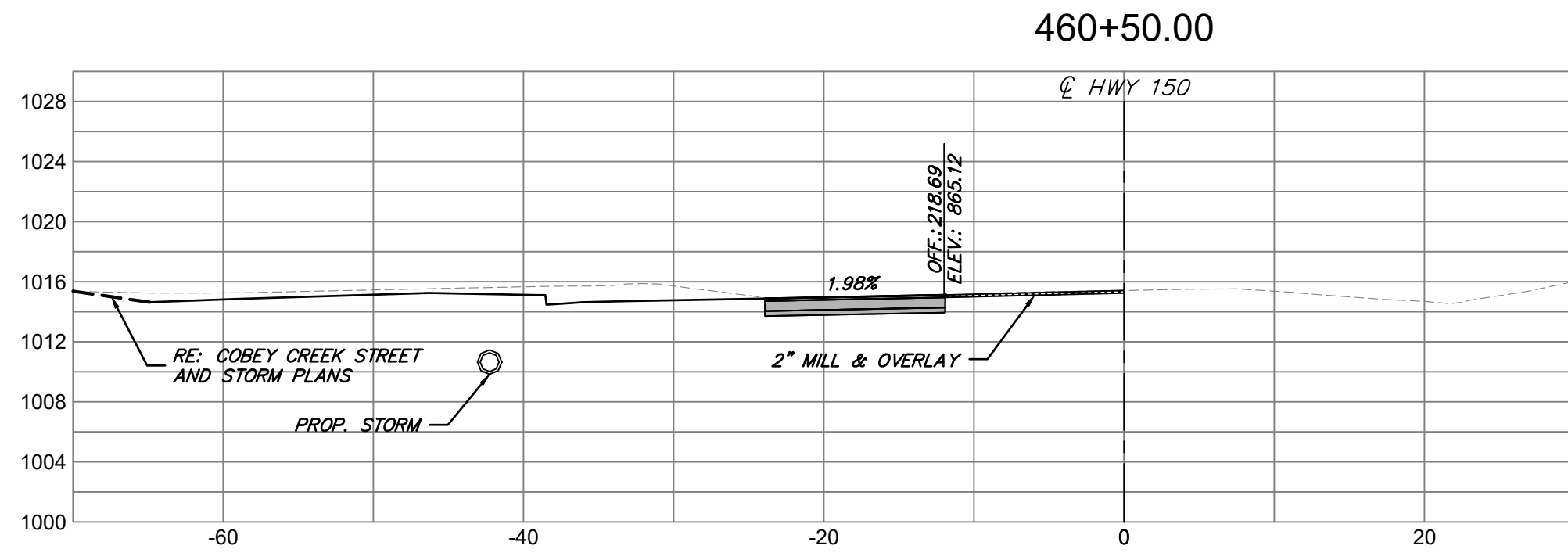
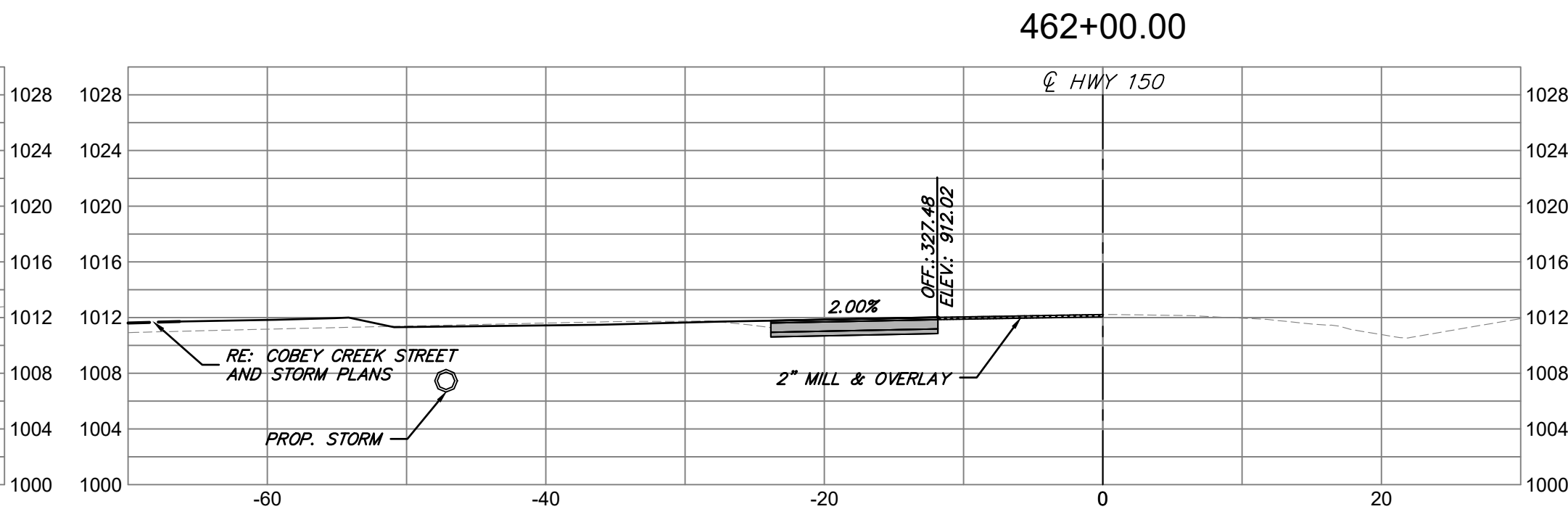
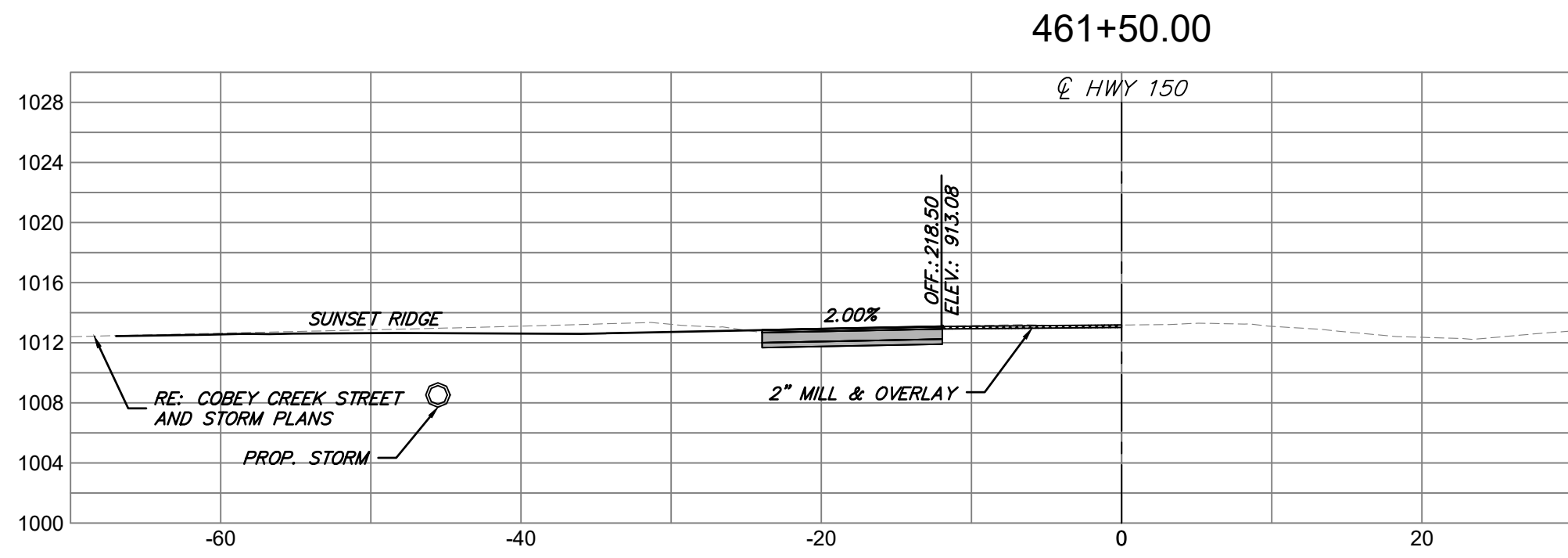
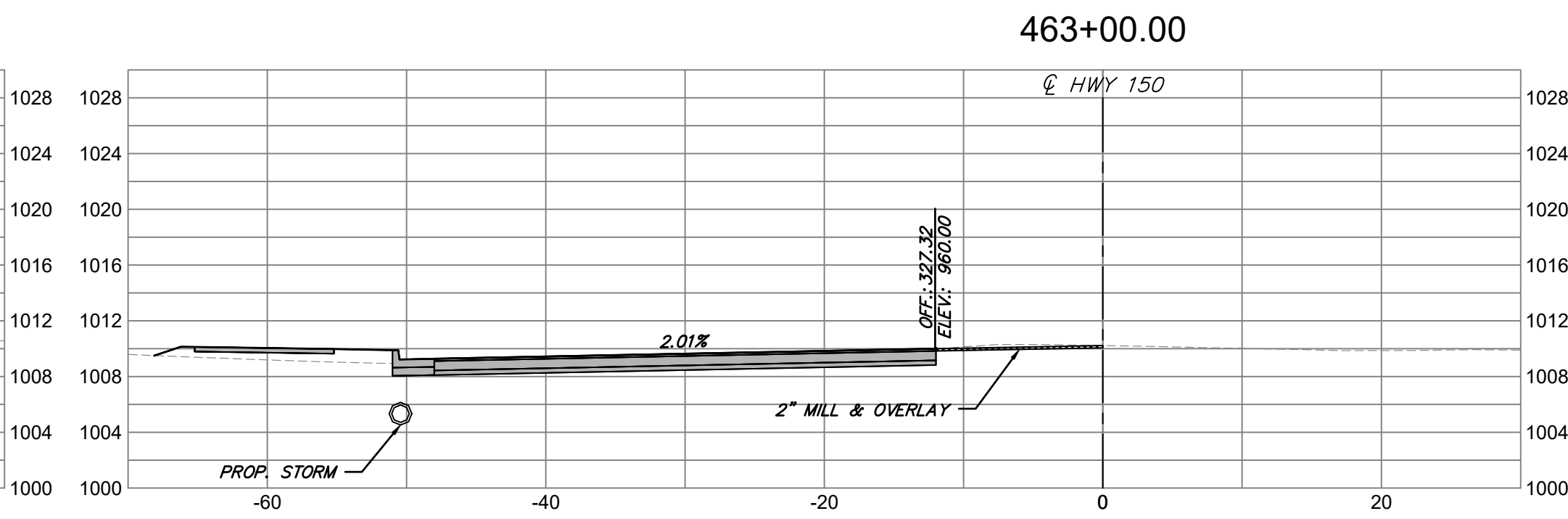
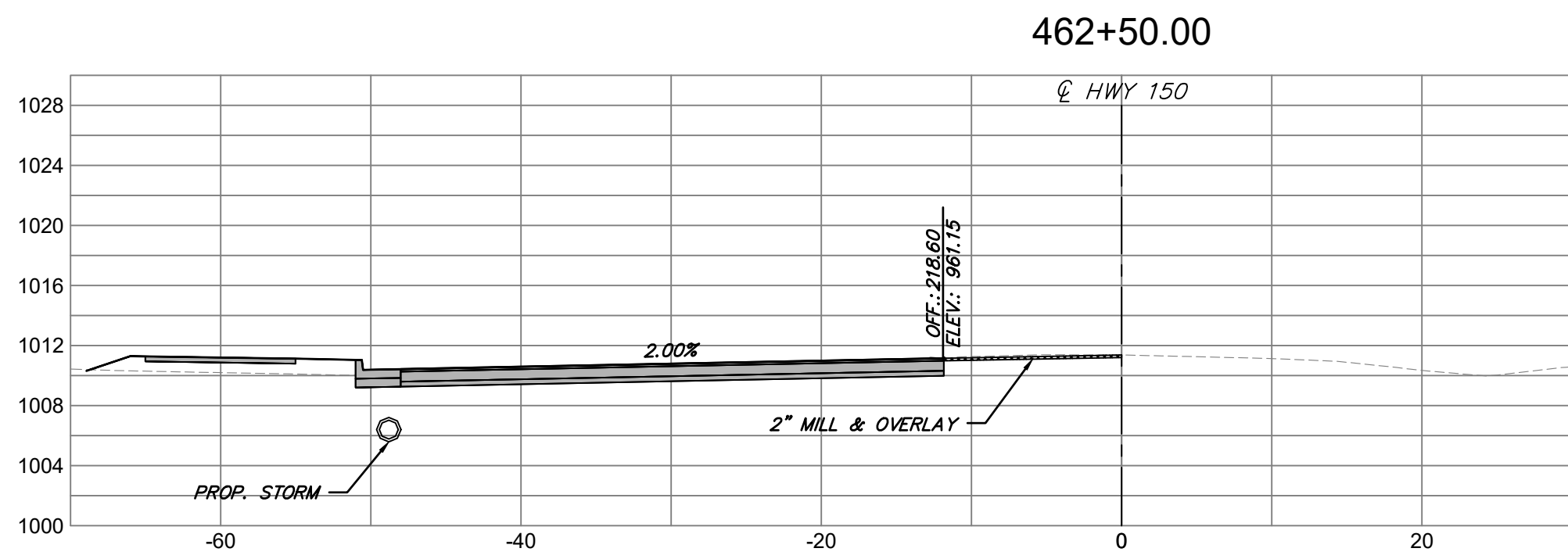
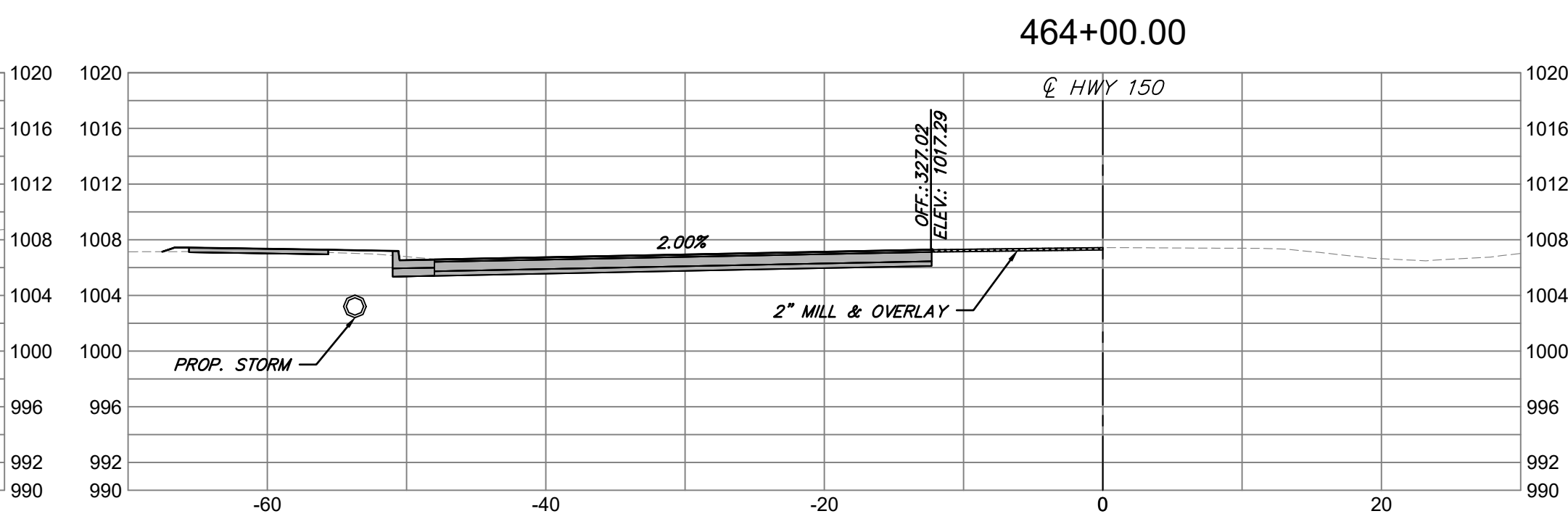
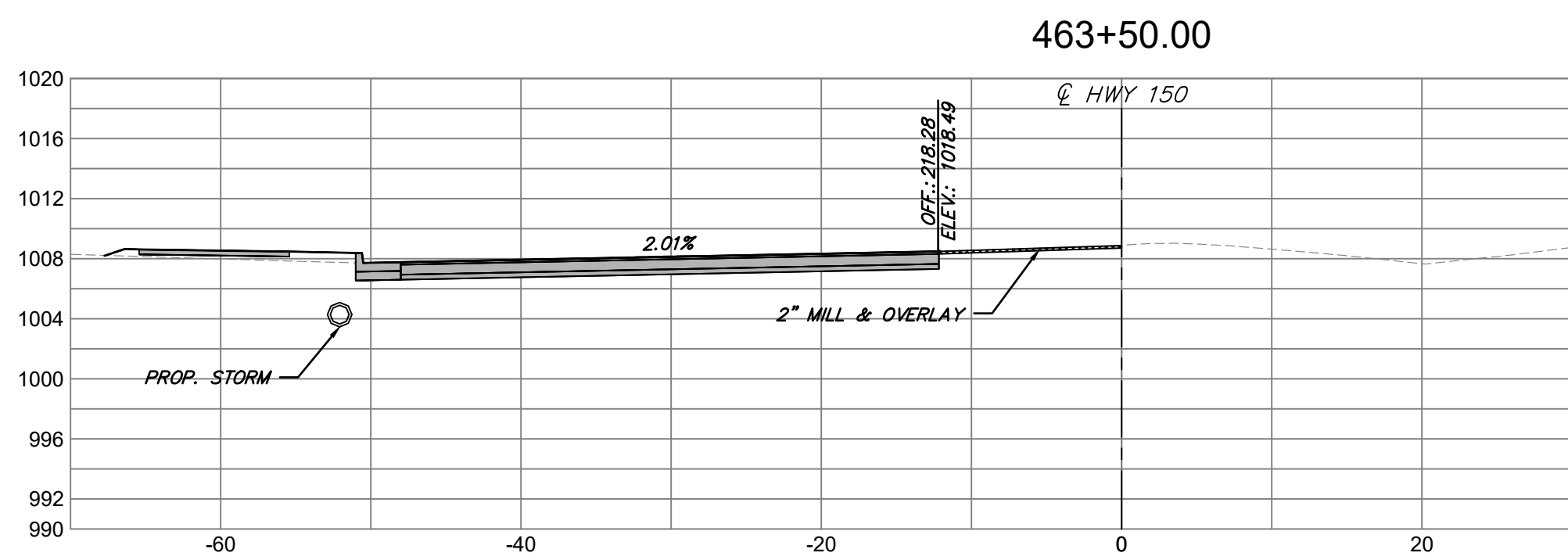
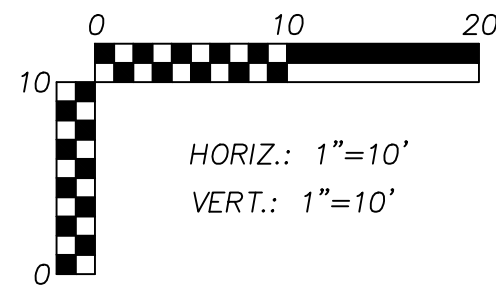
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LEE'S SUMMIT, JACKSON COUNTY, MO



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62
62 OF 66

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COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

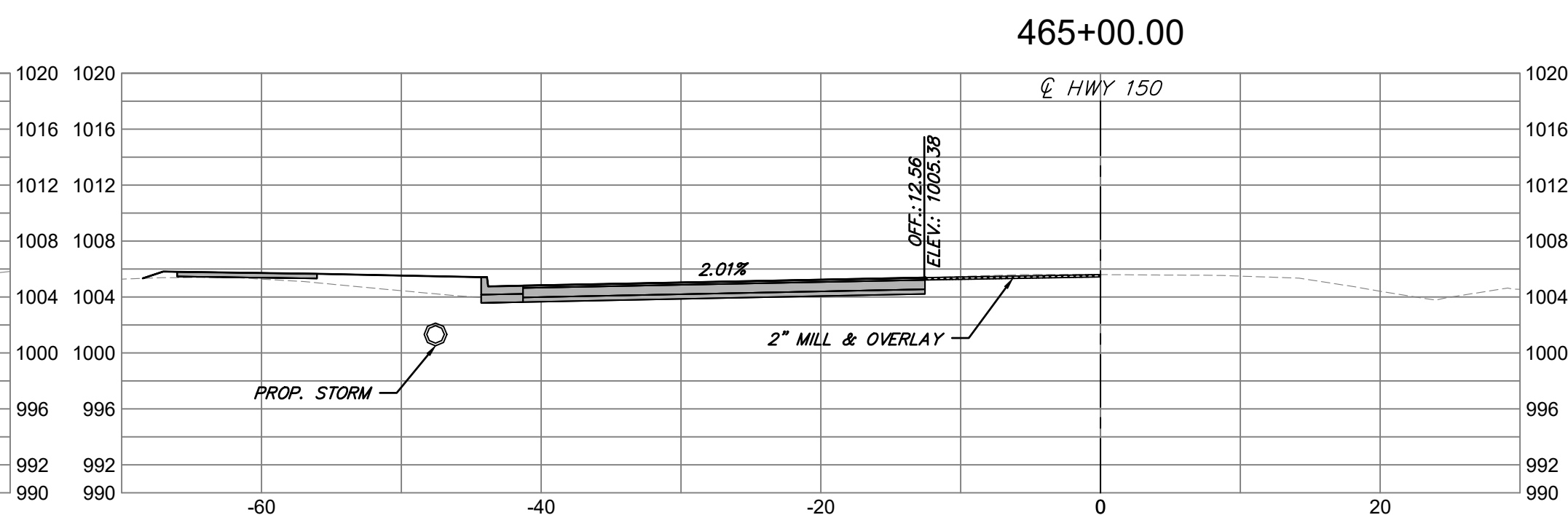
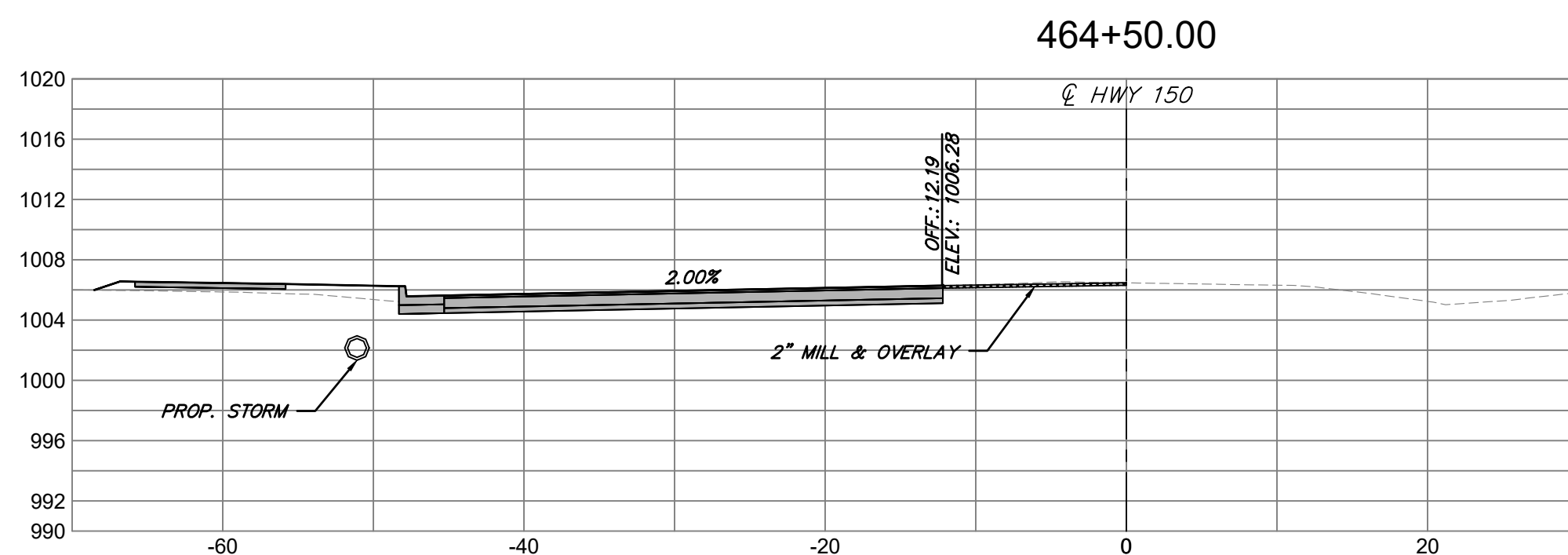
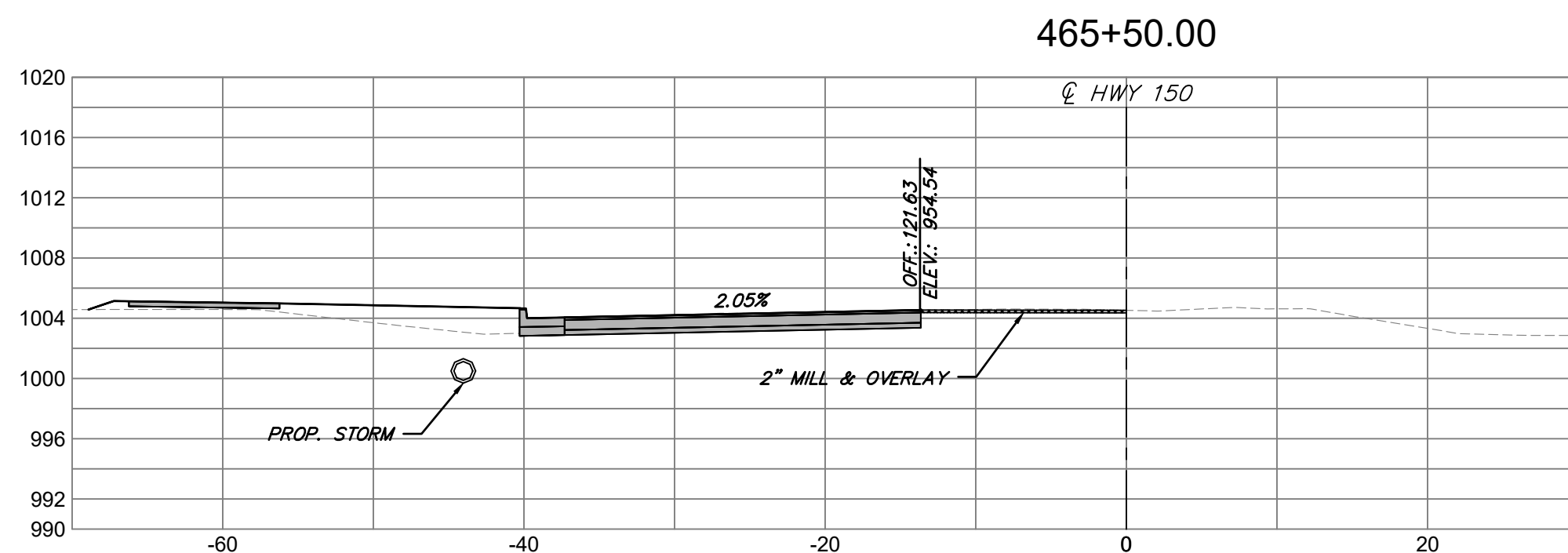
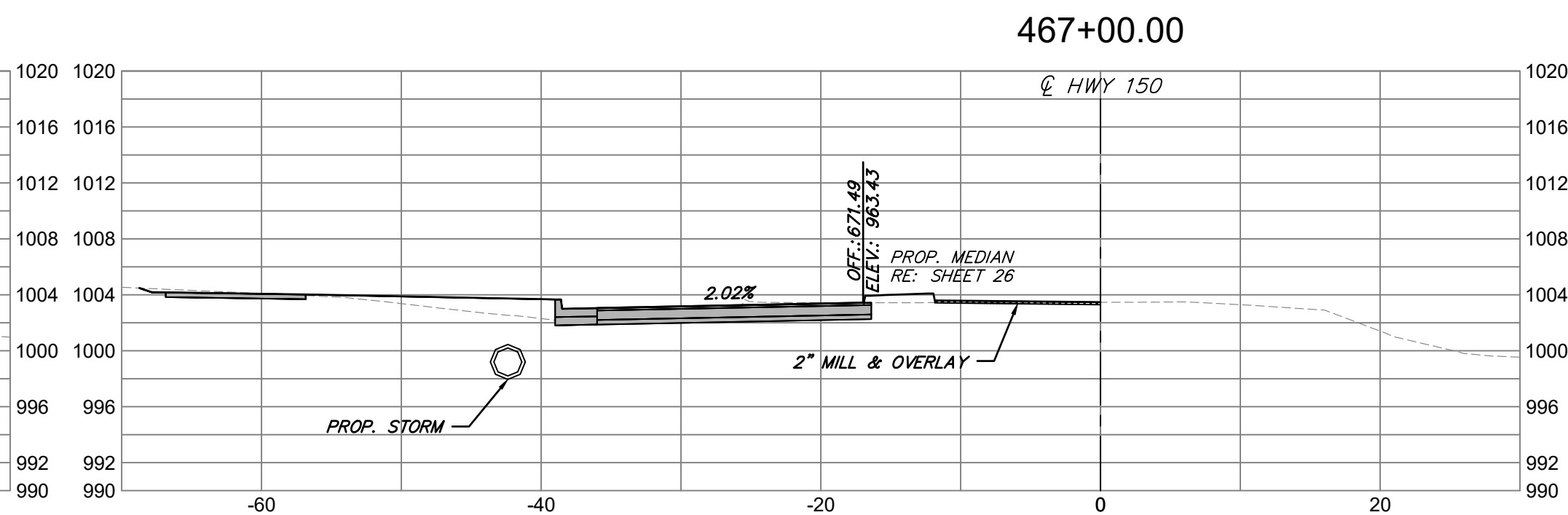
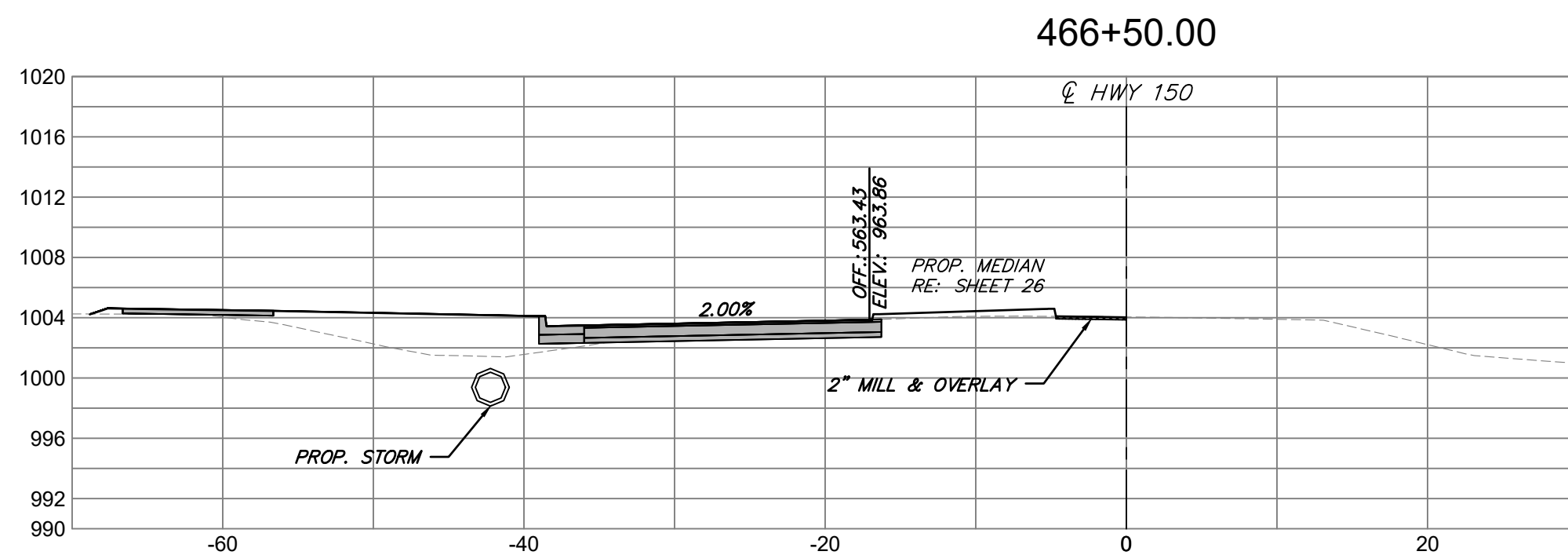
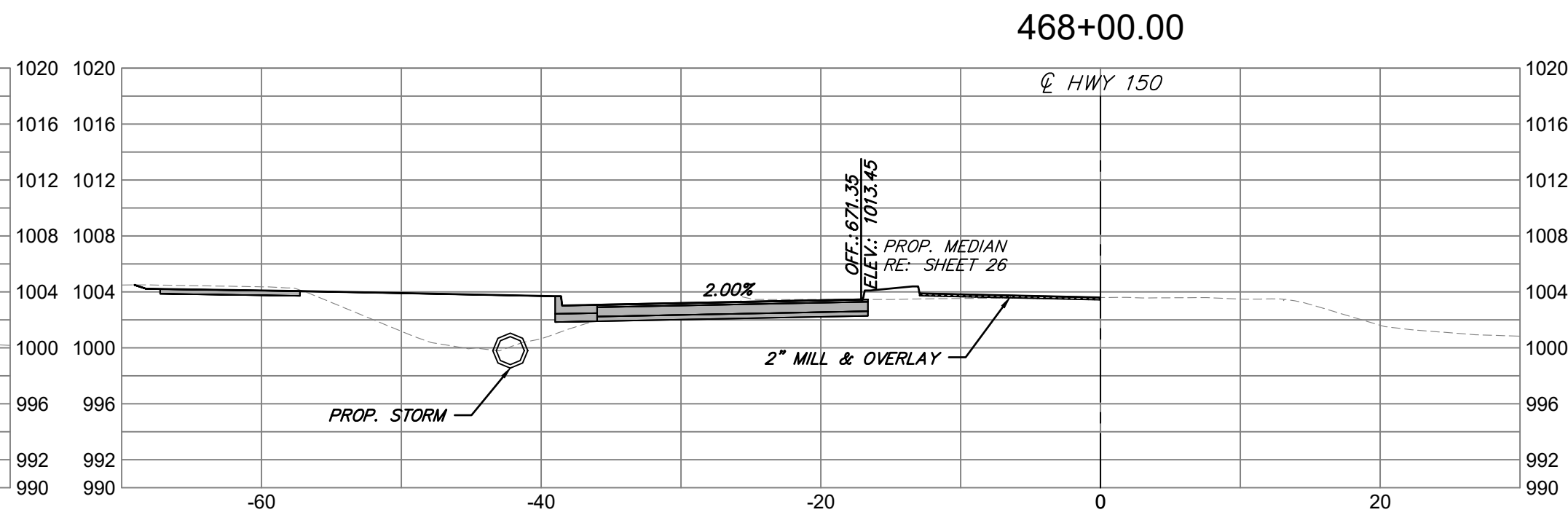
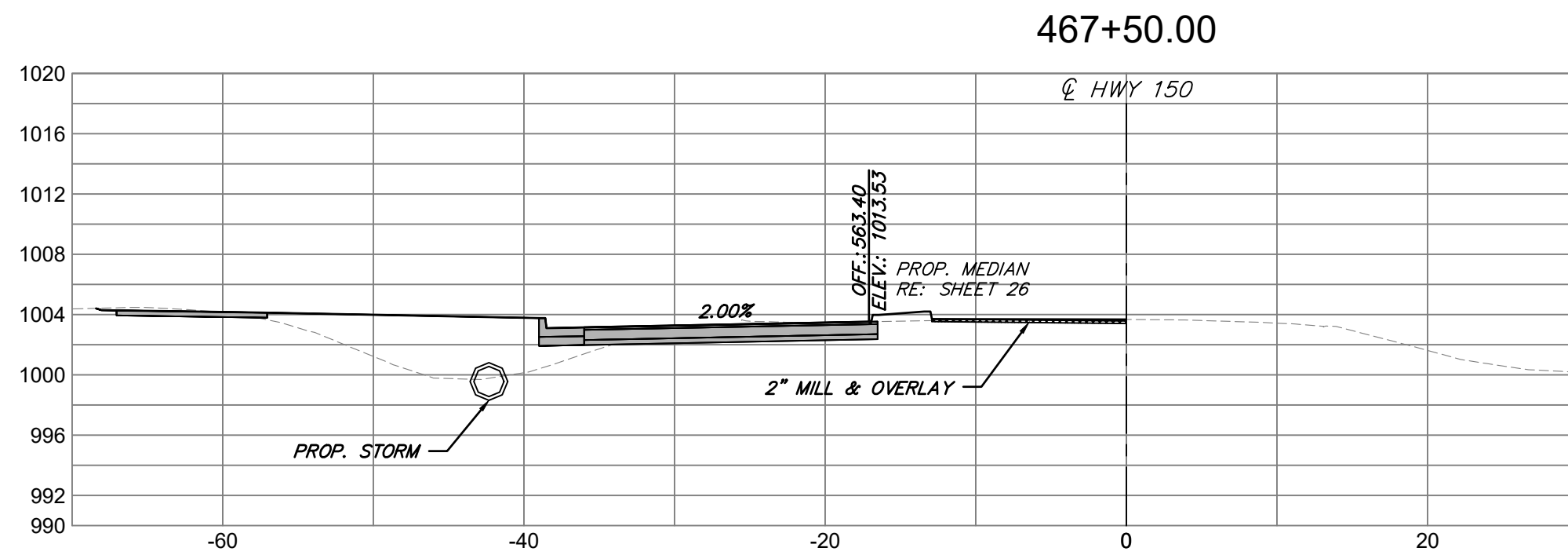
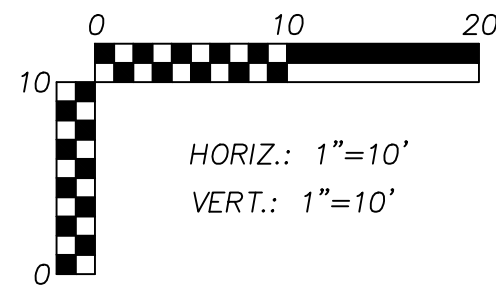
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S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. ROYCE
NUMBER
PE-2009030032
04/07/2023
PROFESSIONAL ENGINEER

SHEET NUMBER
63
63 OF 66

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SUMMIT HOMES
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MODOT STATE HWY 150 WIDENING

CROSS SECTIONS-3

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

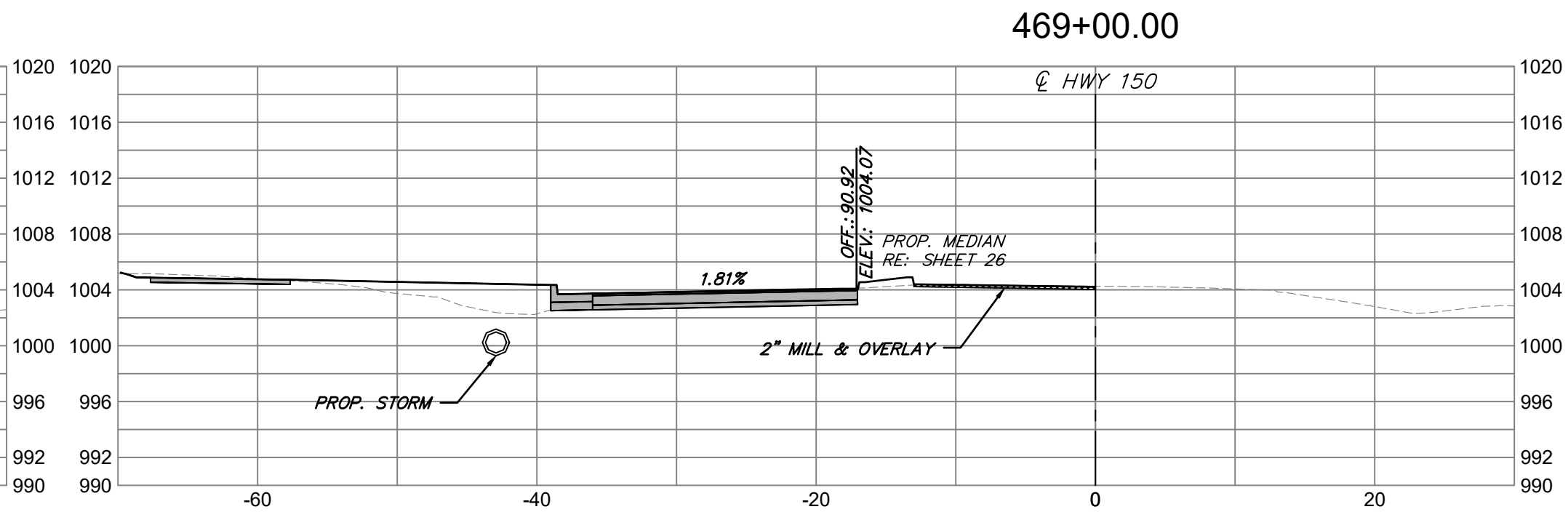
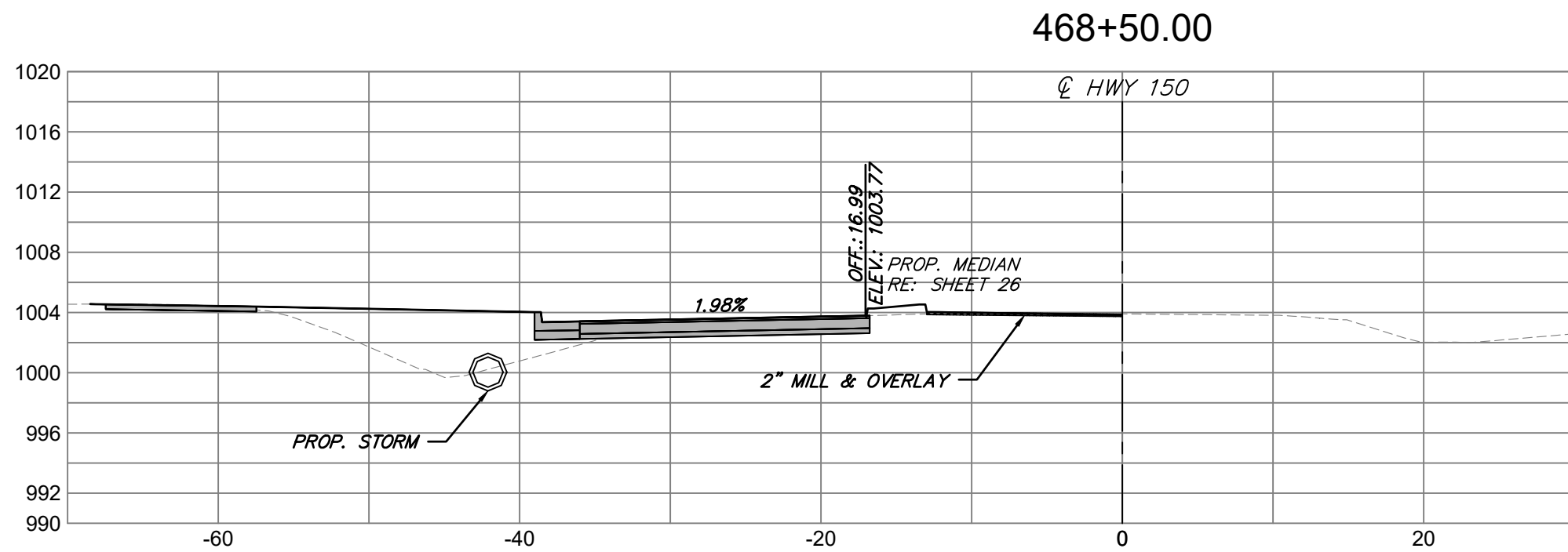
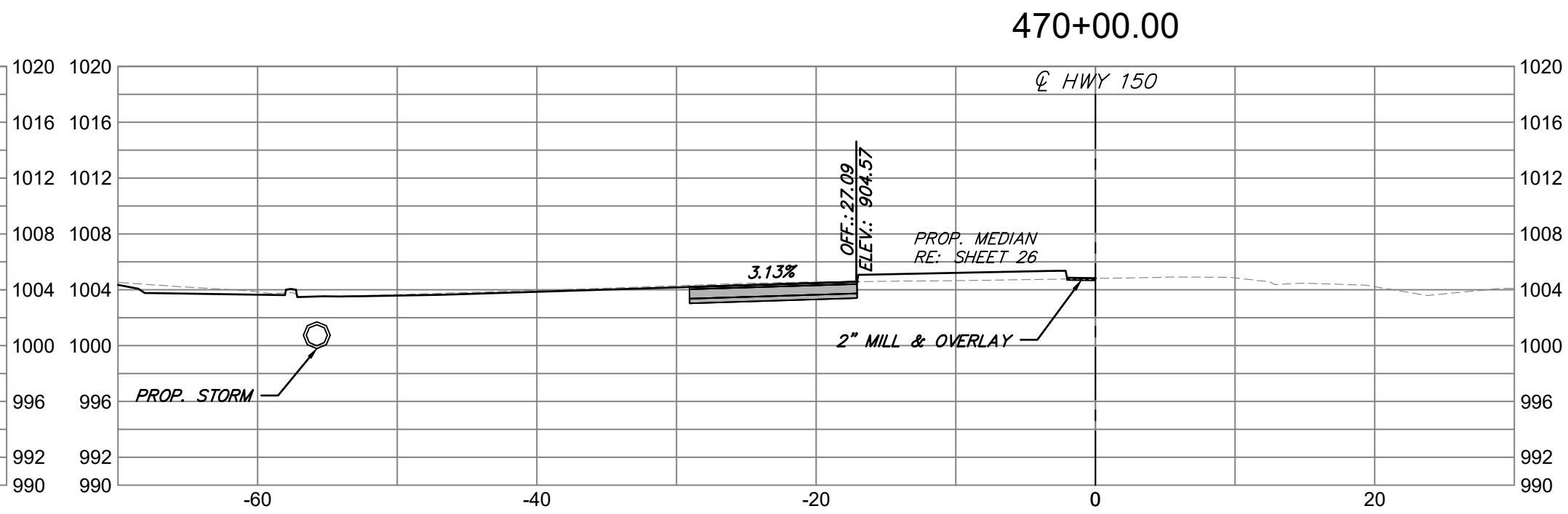
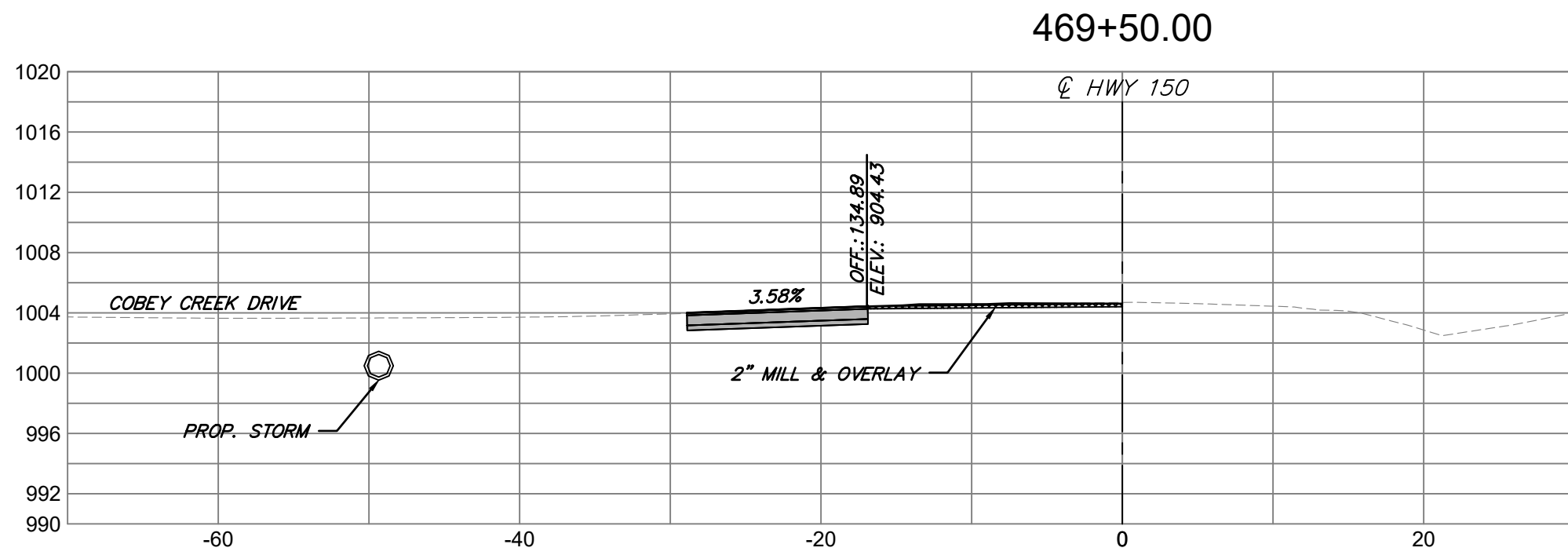
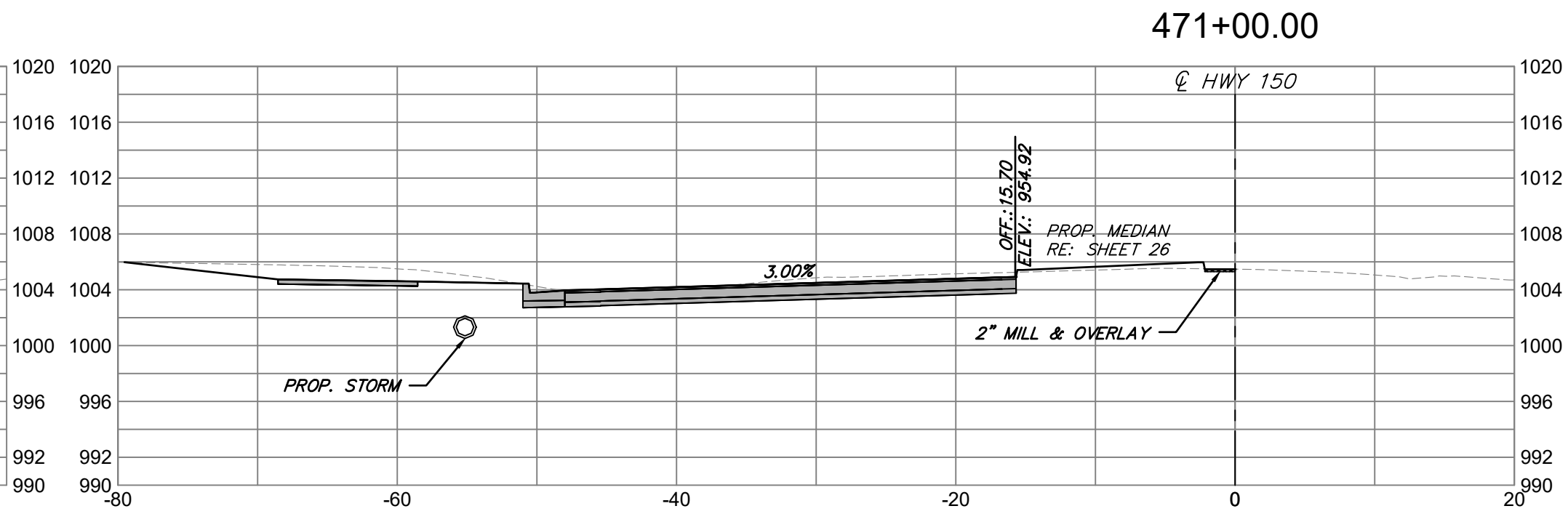
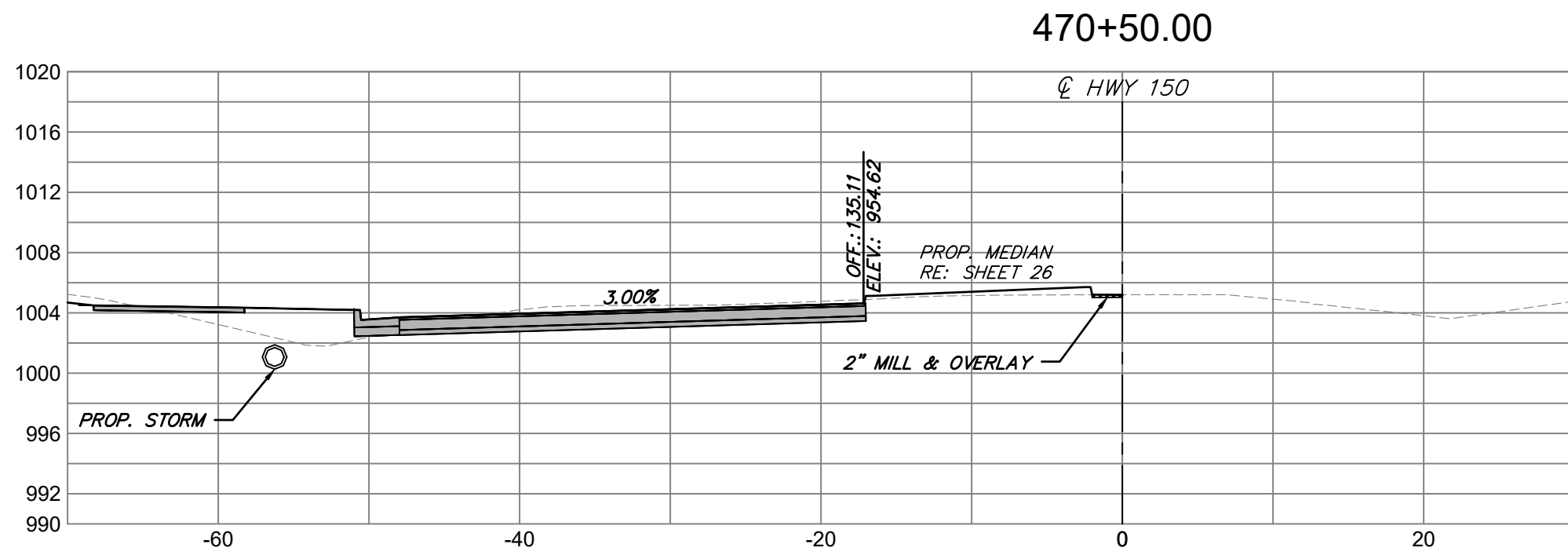
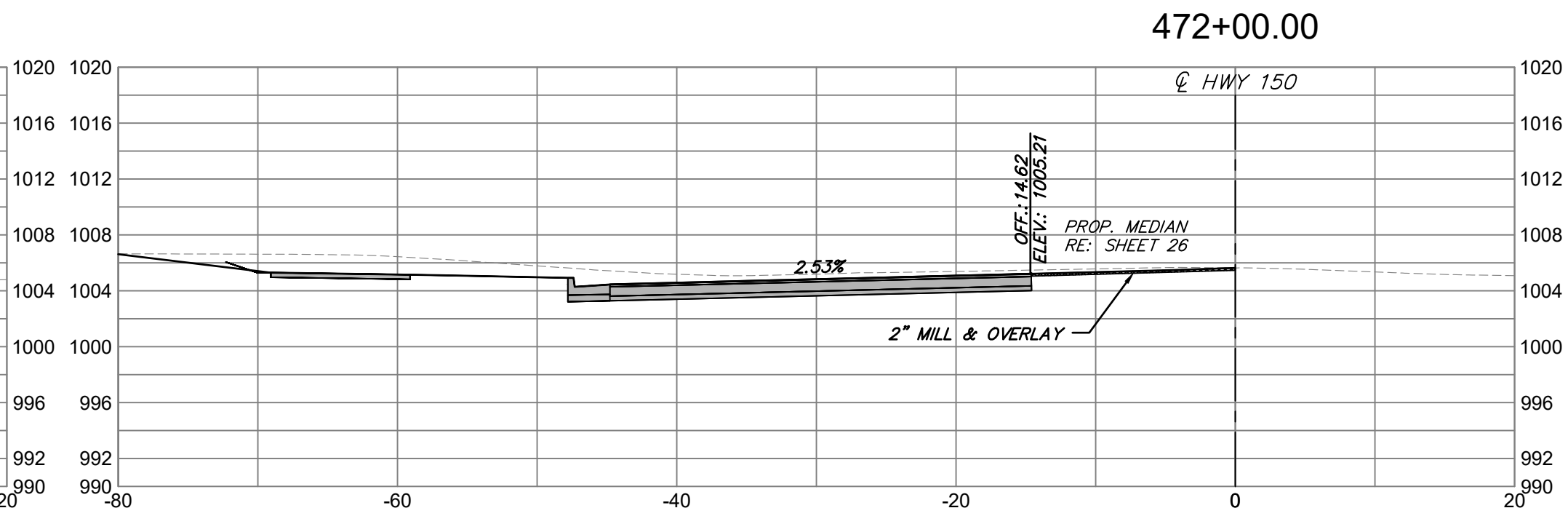
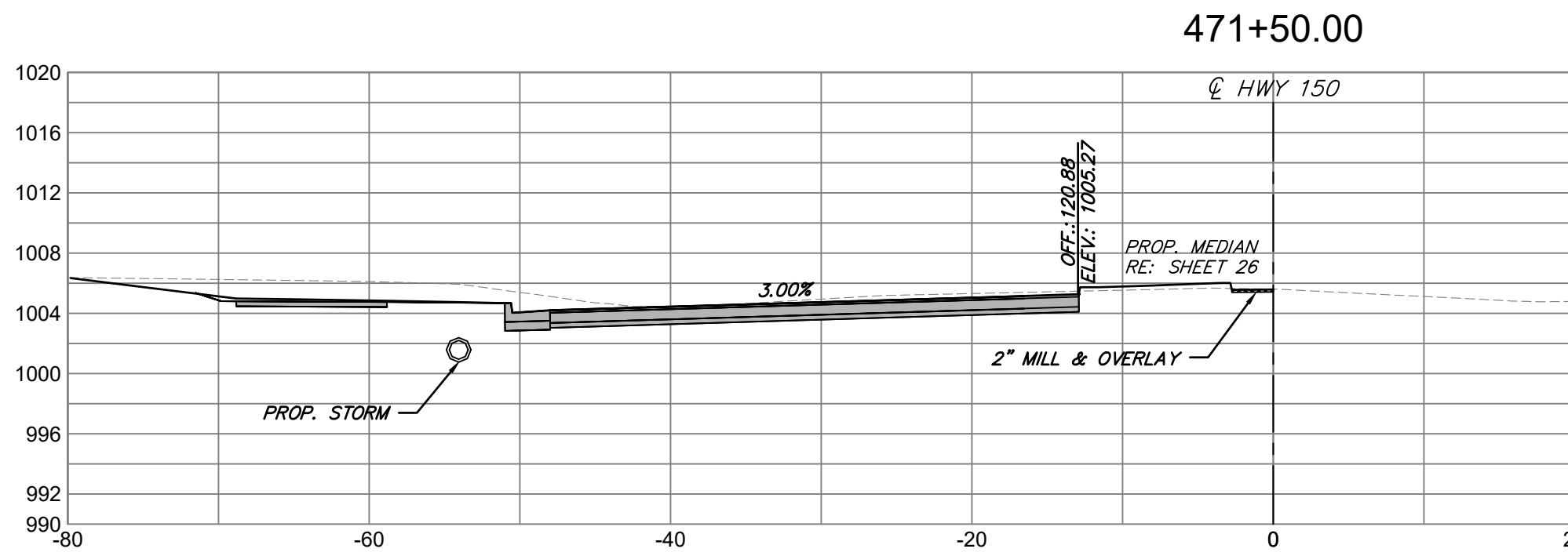
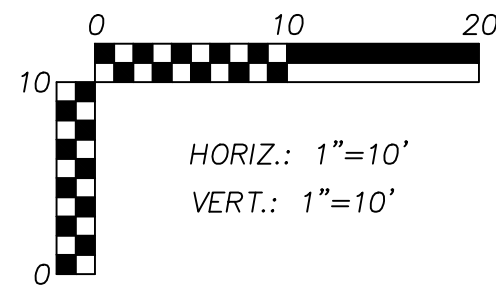


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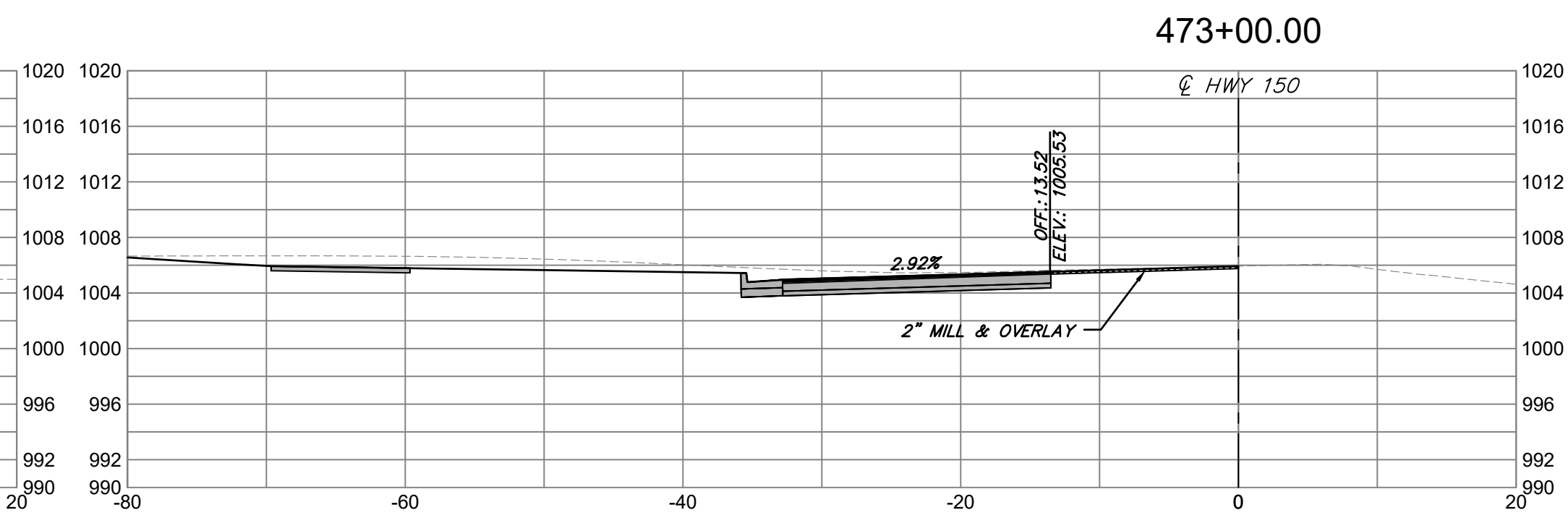
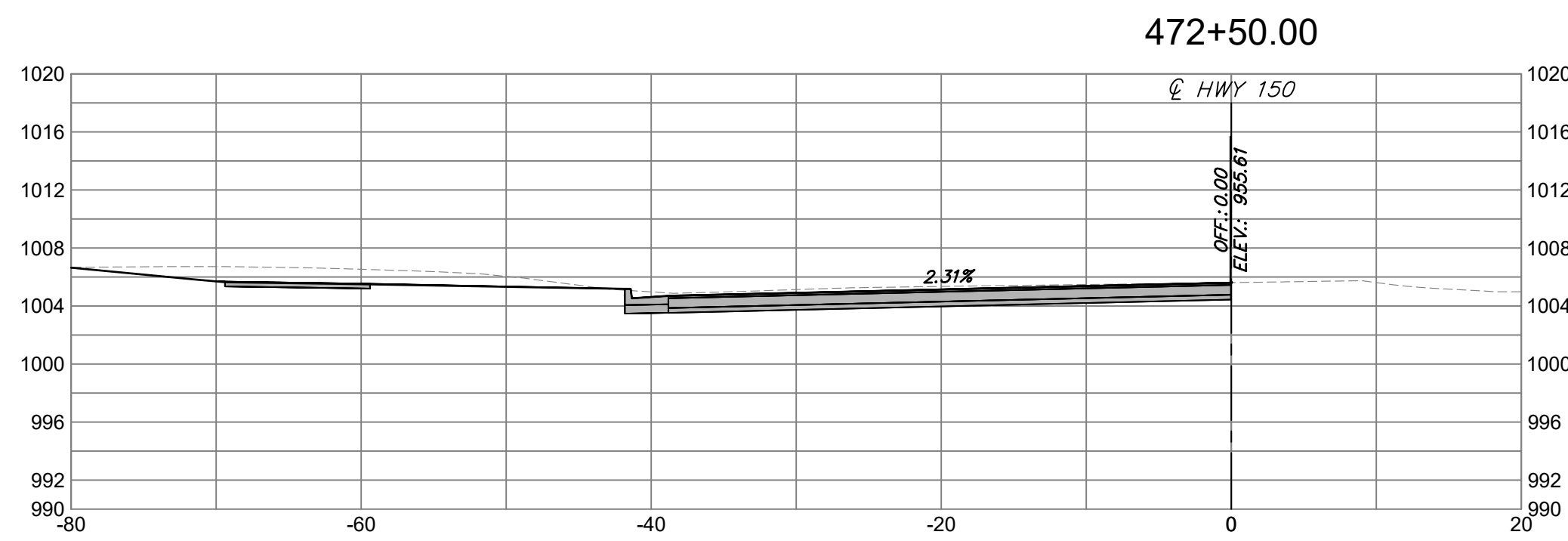
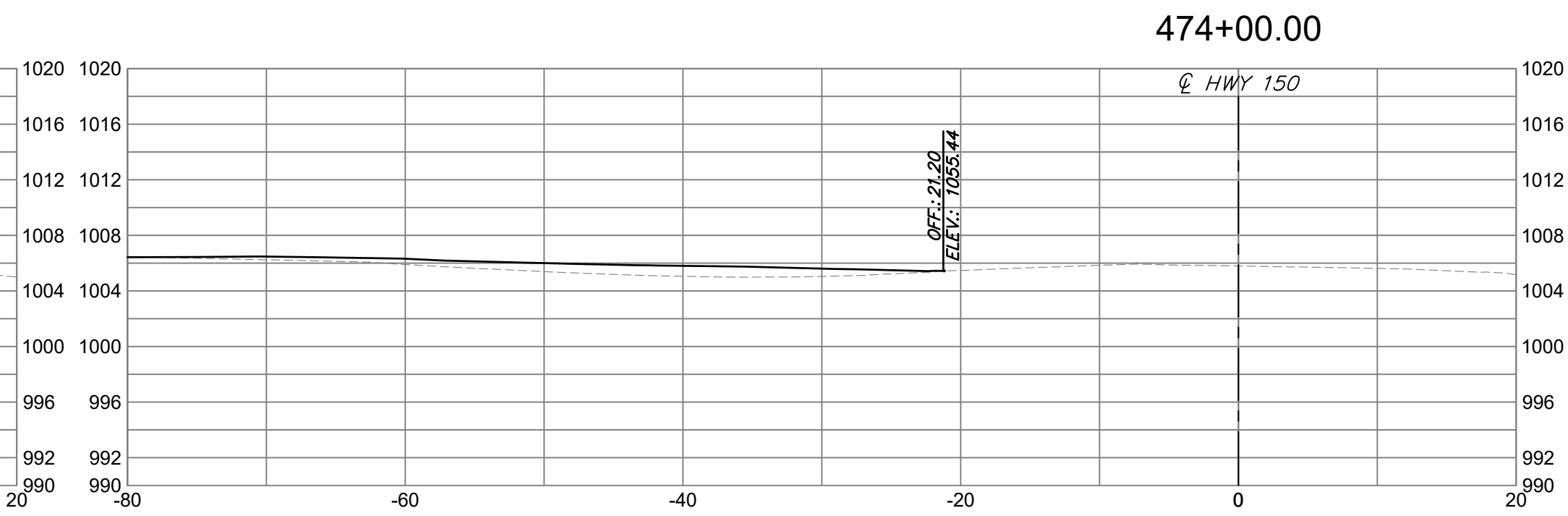
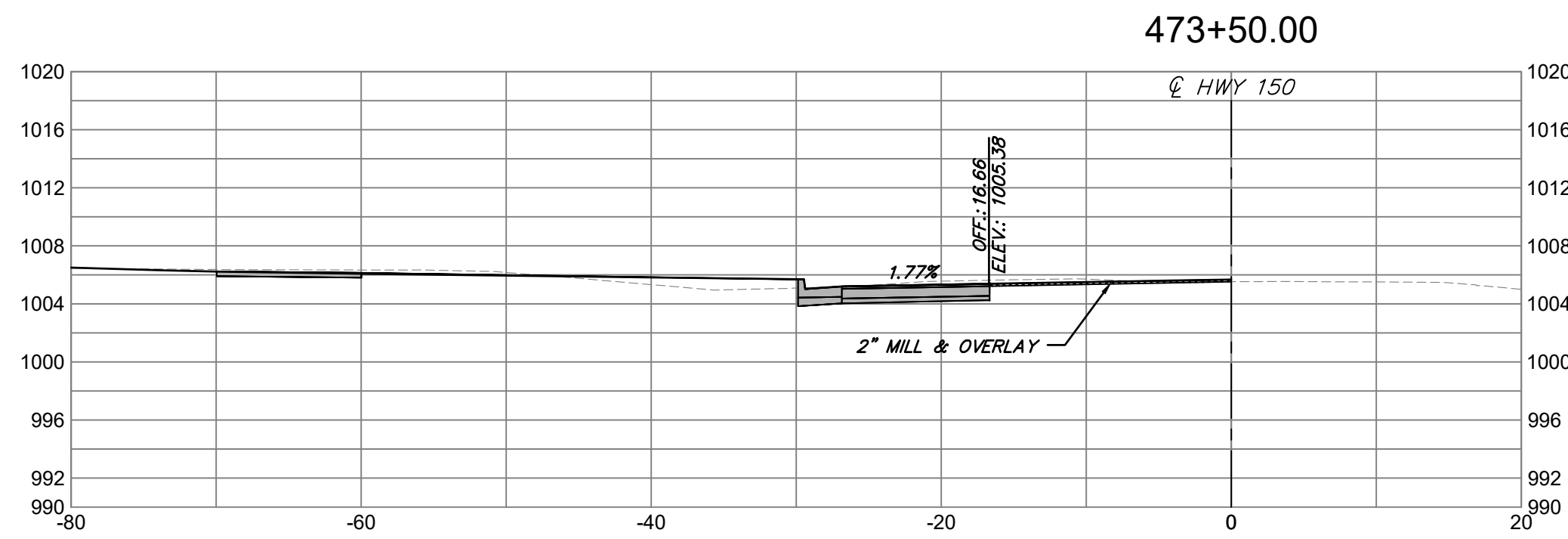
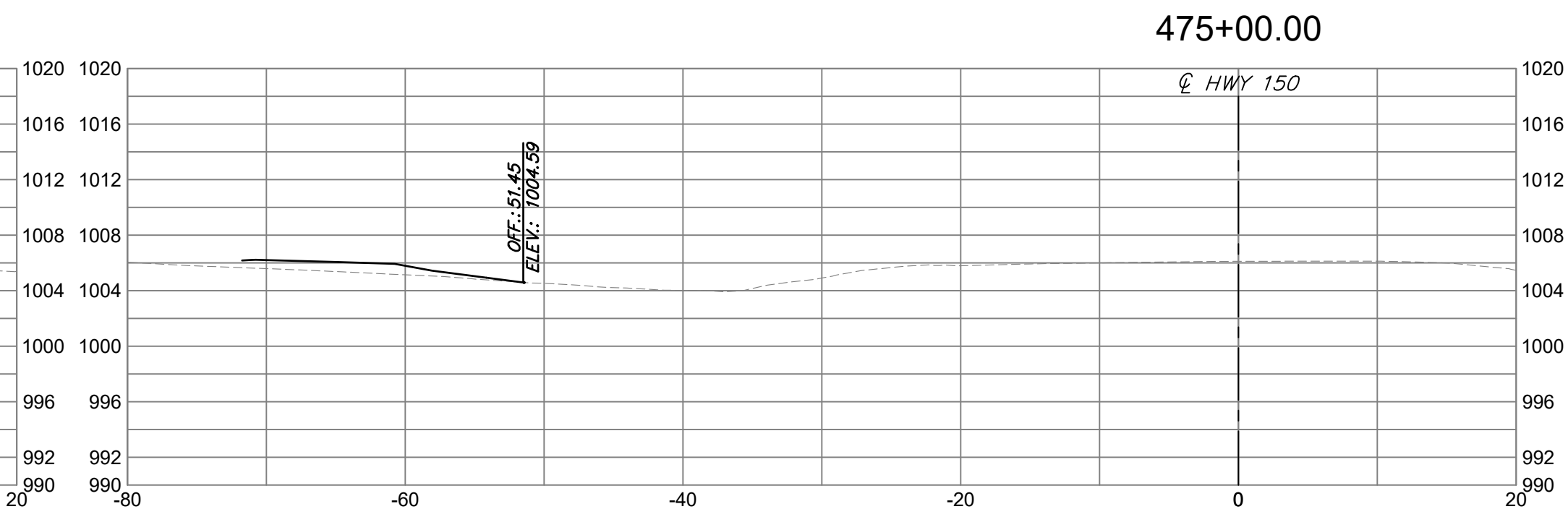
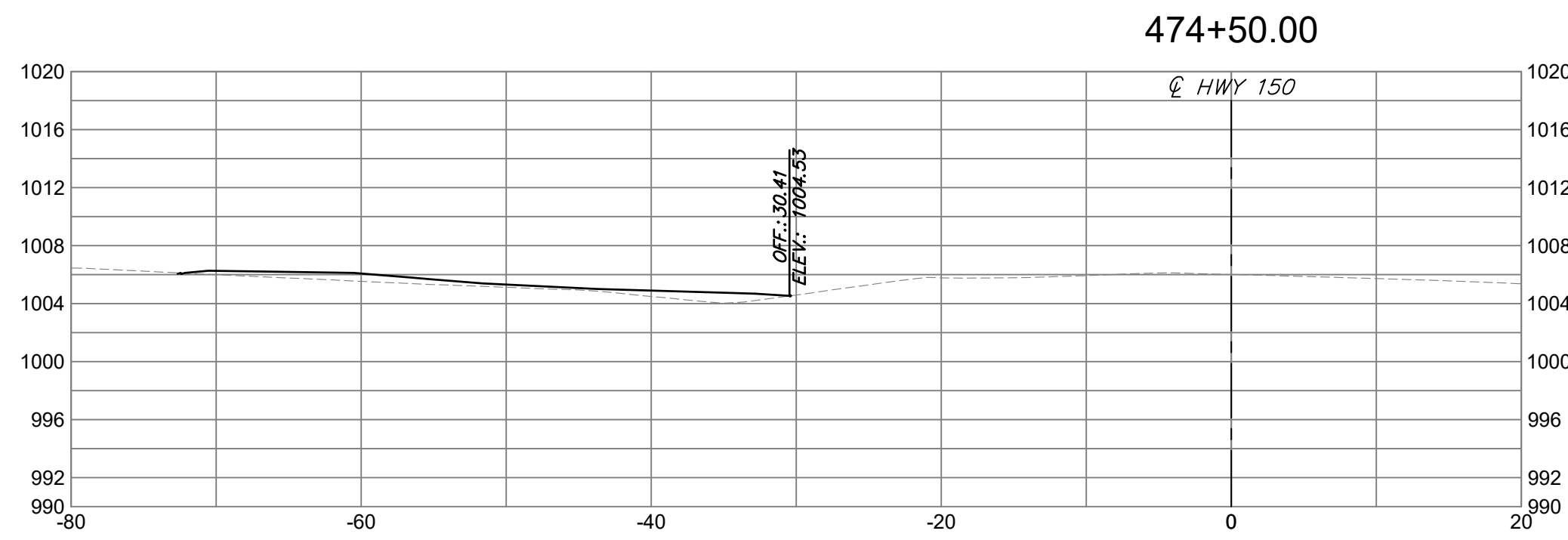
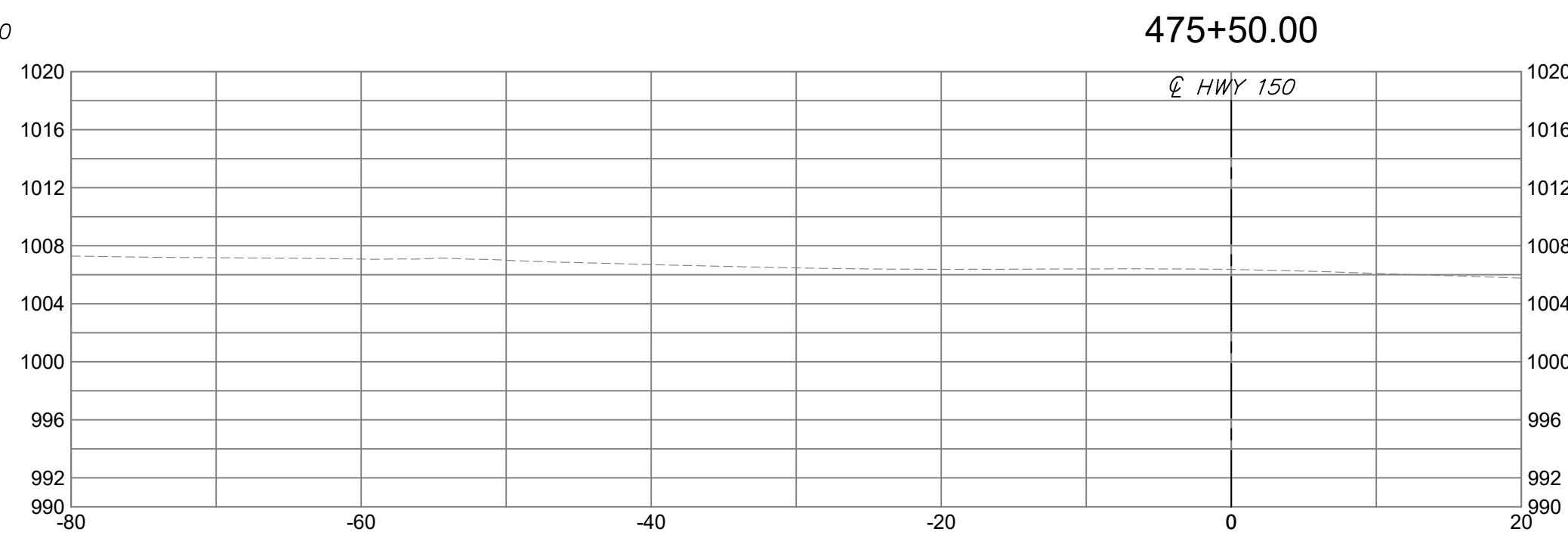
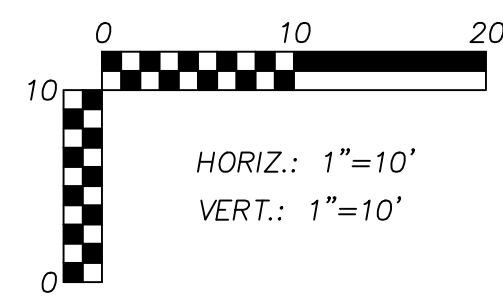
SUMMIT HOMES
COBEY CREEK - 2ND PLAT
MODOT STATE HWY 150 WIDENING

CROSS SECTIONS-4

S 29, T47N, R31W
LEE'S SUMMIT, JACKSON COUNTY, MO

STATE OF MISSOURI
PATRICK J. VOICE
NUMBER
PE-2009030032
04/07/2023

SHEET NUMBER
65
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REVIEWS				DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE	DRAWN BY:	
0	INITIAL SUBMISSION	JGD	04/07/22	JGD	
1	PER MODOT COMMENT	JGD	09/13/22	PJJ	
2	PER MODOT COMMENT	JGD	01/10/23		
3	PER MODOT COMMENT	JGD	01/10/23		
4	PER MODOT COMMENT	JGD	04/07/23		
				FIELD BOOK:	FOR REVIEW
				JOB NUMBER:	21KC10060
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SUMMIT HOMES COBEY CREEK - 2ND PLAT MODOT STATE HWY 150 WIDENING	CROSS SECTIONS-5
S 29, T47N, R31W LEE'S SUMMIT, JACKSON COUNTY, MO	



04/07/2023

SHEET NUMBER

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OF

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