



CIVIL

ENGINEERING

Project Management

Construction Plans

Permitting

Right of Way Negotiation

Utility Coordination

Project Specifications

Contract Documents

Agency Coordination

CONSTRUCTION

ENGINEERING

Bidding Services

Construction Inspection

Contract Administration

Project Documentation

STRUCTURAL

ENGINEERING

Highway Bridges

Forensic Investigations

Building Inspections

Foundation Inspections

Residential Structures

Commercial Structures

Structure Rehabilitation

Zanevan Engineering, LLC

1221 Oak Street

Carthage, MO 64836

417.800.2500

www.zanevan.com

ADDENDUM NO. 1

TO: All Holders of Plans and Contract Documents for
TAP-1601(705) – Hwy. HH and Chapel Road
Sidewalks, Jasper County, Carthage, Missouri

ISSUED: January 13, 2026

Name of Bidder

Receipt of Acknowledged By

Planholders:

This Addendum is hereby made a part of the Contract Documents to the same extent as if it were originally included herein. This Addendum shall be inserted into the Contract Documents and submitted with the Bid, and includes the following items:

PLANS:

- 1) Attached is the revised set of plans that include Sheets C-1.0 thru C-10.4. This new set is dated 10/16/2025 as shown next to the Zanevan Engineering title block on each page. The attached plans will hereby be utilized for bid submission.

Sincerely,

Zanevan Engineering

Jason Eckhart, P.E.
President/Owner

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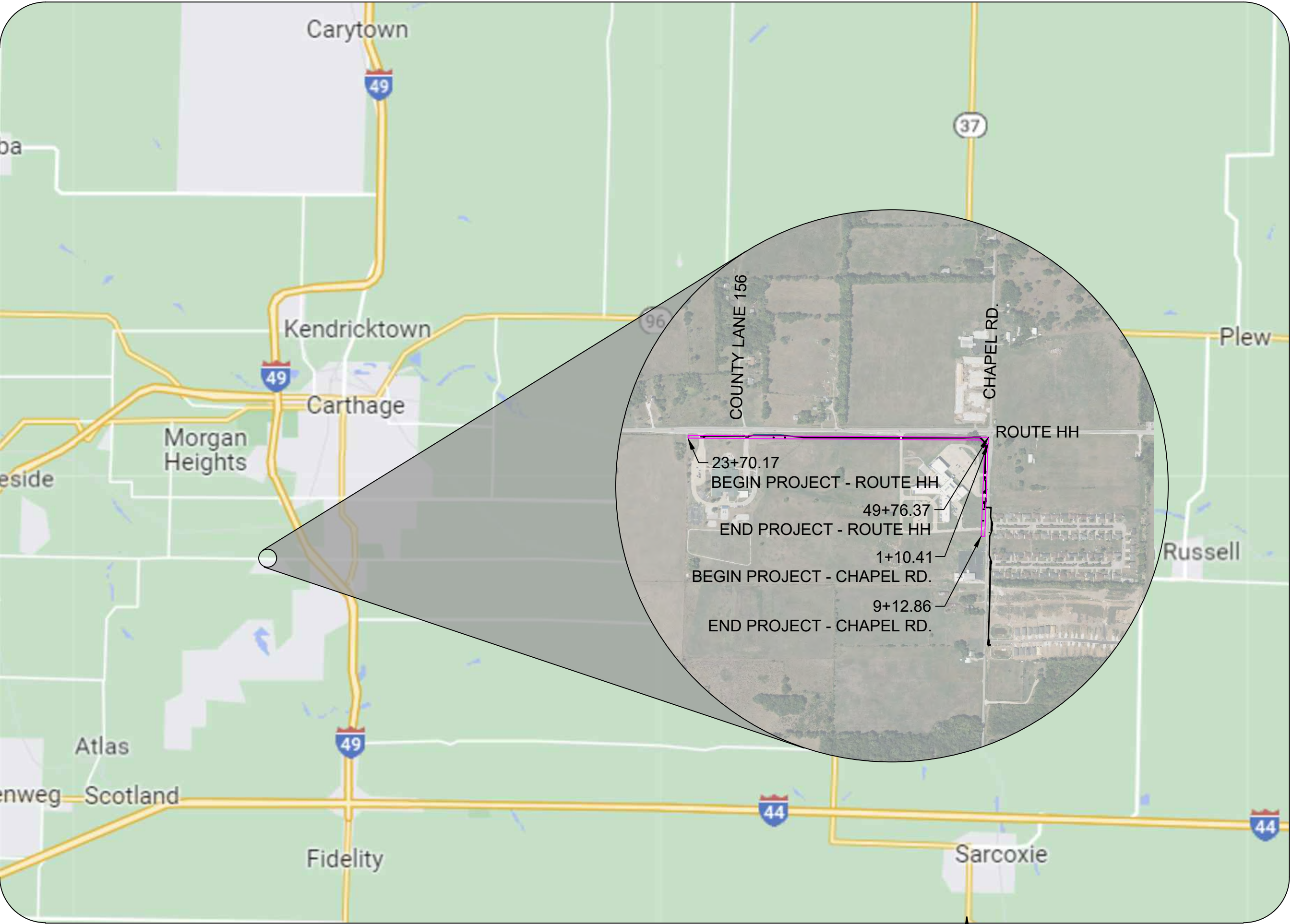
REVISION	REV. NO.
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DESIGN TEAMS

CIVIL ENGINEERING
ZANEVAN ENGINEERING
1221 OAK STREET
CARTHAGE, MO 64836
JASON ECKHART P.E.
(417) 540-1107



CAUTION:
INFORMATION ON THIS DRAWING CONCERNING TYPE
& LOCATION OF UNDERGROUND & OTHER UTILITIES IS
NOT GUARANTEED TO BE ACCURATE OR ALL
INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR
MAKING HIS OWN DETERMINATION AS TO THE TYPE &
LOCATION OF UNDERGROUND & OTHER UTILITIES AS
MAY BE NECESSARY TO AVOID DAMAGE THERETO.



PROJECT LOCATION MAP
NOT TO SCALE



TAP-1601(705)
ROUTE HH & CHAPEL ROAD SIDEWALKS
CARTHAGE, MISSOURI

CONTACT INFORMATION

CITY OF CARTHAGE PUBLIC WORKS
623 E. 7TH ST.
CARTHAGE, MO 64836
ZEB CARNEY
(417) 237-7010

MODOT PERMIT SPECIALIST
MICHAEL CHRISTENSON
(417) 291-5740
MICHAEL.CHRISTENSON@MODOT.MO.GOV

UTILITIES INFORMATION

ELECTRIC
CARTHAGE WATER & ELECTRIC PLANT
627 W. CENTENNIAL AVE.
CARTHAGE, MO 64836
KEVIN EMERY
(417) 237-7300

ELECTRIC
LIBERTY UTILITIES
3400 KODIAK ROAD
JOPLIN, MO 64804
WILL ENDICOTT
(417) 625-6103

CABLE PROVIDER
OPTIMUM
TONY GILBERT

WATER / SEWER
CARTHAGE WATER & ELECTRIC PLANT
627 W. CENTENNIAL AVE.
CARTHAGE, MO 64836
JASON CHOATE
(417) 237-7300

TELEPHONE
A.T.&T.
321 W. 8TH ST.
JOPLIN, MO 64801
JOHN FISK

NATURAL GAS
SPIRE ENERGY
520 E. 5TH ST.
JOPLIN, MO 64801
KEN STEGALL
(417) 626-4831



NO.	REVISIONS	DESCRIPTION	BY	DATE

TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-1.0
COVER SHEET

PROJECT NUMBER:
230012
DATE:
10/16/2025



PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836

Approved by: CITY OF CARTHAGE PUBLIC WORKS
Zeb Carney, Director of Public Works

1/4/25
Date

SUMMARY OF QUANTITIES			
TAP-1601(705) ROUTE HH & CHAPEL RD.			
Item No.	Description	Unit	Quantity
1	MOBILIZATION	LS	1
2	SEEDING & MULCH	AC	0.5
3	REMOVAL OF IMPROVEMENTS	LS	1
4	RELOCATED SIGNS	EA	2
5	TYPE "A" SIDEWALK	SY	1,703
6	TYPE "B" SIDEWALK	SY	432
7	MODOT TYPE 1-A CURB RAMP	SY	82
8	MODOT TYPE 1-B CURB RAMP	SY	27
9	CONCRETE STREET CROSSING	SY	177
10	CURB & GUTTER	LF	12
11	COMPACTED CRUSHED STONE	TONS	228
12	TACTILE WARNING SURFACE	SF	131
13	WHITE MIDBLOCK CROSSWALK	EA	7
14	24" WHITE STOP BAR	LF	100
15	18" RCP	LF	46
16	24" RCP	LF	10
17	ROCK LINING	CY	8
18	TYPE "A" CURB INLET	EA	2
19	TYPE "B" CURB INLET	EA	1
20	CLASS 3 EXCAVATION	CY	33
21	RECTANGULAR RAPID FLASHING BEACON (SOLAR)	EA	2
22	SIGNAGE	SF	51.0
23	ROCK DITCH CHECK	EA	4
24	CONSTRUCTION SIGNS	SF	152.0
25	CHANNELIZER (TRIM-LINE)	EA	132.0
26	TYPE III MOVEABLE BARRICADE	EA	4.0
27	LINEAR GRADING	STA	43.6

LEGEND
(USED IN PLANS)

	EXISTING STORM WATER		EXISTING MAILBOX
	EXISTING FEATURE		EXISTING STORM INLET
	EXISTING FENCE		EXISTING WATER METER
	EXISTING GUARDRAIL		EXISTING WATER VALVE
	SECTION LINE		EXISTING FIRE HYDRANT
	EXISTING PROPERTY LINE		EXISTING SANITARY MANHOLE
	EXISTING EASEMENT		EXISTING SANITARY CLEANOUT
	EXISTING GAS LINE		EXISTING POWER POLE
	EXISTING WATER LINE		EXISTING LIGHT POLE
	EXISTING SANITARY SEWER		EXISTING GUY WIRE ANCHOR
	EXISTING UNDERGROUND ELECTRIC		EXISTING GROUND LIGHT
	EXISTING OVERHEAD ELECTRIC		EXISTING TELEPHONE PEDESTAL
	EXISTING UNDERGROUND TELEPHONE		EXISTING SIGN
	EXISTING OVERHEAD TELEPHONE		EXISTING TREE
	EXISTING FIBER OPTIC		CONTROL POINT
	EXISTING UNDERGROUND CABLE TV		FOUND CORNER
	EXISTING OVERHEAD CABLE TV		EXISTING BENCHMARK

NOTES ON QUANTITIES:
PLAN QUANTITIES FOR STORM WATER PIPES, INCLUDE LENGTHS FOR FLARED END SECTIONS (WHERE REQUIRED). THE COST FOR FLARED END SECTIONS SHALL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR APPLICABLE STORM WATER PIPE.
SAW CUT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED WITH THE PRICE FOR TYPE B (BARRIER) CURB & GUTTER AND WITH CONCRETE SIDEWALKS/DRIVEWAY ENTRANCES, 7" THICK.

ABBREVIATION TABLE

STA:	STATION
OFF:	OFFSET
FL:	FLOW LINE
EG:	EXISTING GRADE
FG:	FINISH GRADE
BC:	BACK OF CURB
GL:	GUTTER LINE
EX:	EXISTING
PR:	PROPOSED
R/W	RIGHT-OF-WAY
ℙ	PROPERTY LINE
TBM	TEMPORARY BENCHMARK
CP	CONTROL POINT
℄	CENTERLINE
TYP.	TYPICAL
TEMP.	TEMPORARY

GENERAL NOTES:

- ALL WORK, MATERIALS, AND DETAILS SHALL BE IN ACCORDANCE WITH THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE STANDARD SPECIFICATIONS FOR THE APPLICABLE CITY AND/OR COUNTY. CONTRACTORS SHALL OBTAIN A COPY OF THESE STANDARDS TO ENSURE COMPLIANCE.
- EXISTING UTILITIES AND UNDERGROUND INSTALLATIONS HAVE BEEN LOCATED TO THE GREATEST EXTENT PRACTICAL THROUGH REVIEW OF CONSTRUCTION PLANS AND SURFACE OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL.
- THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
- NO WORK SHALL COMMENCE UNTIL ALL NECESSARY PERMITS ARE OBTAINED BY THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINE AND GRADE STAKES.
- CONTRACTOR SHALL REMOVE, PRESERVE, AND REPLACE ALL SIGNS, MAIL BOXES, FENCES, METAL FLAG POLE BASES AND THE LIKE, WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS.
- ALL TRAFFIC WAYS INCLUDING DRIVEWAYS, ALLEYWAYS, ETC., SHALL REMAIN ACCESSIBLE TO RESIDENTIAL AND EMERGENCY VEHICLES DURING PROJECT DURATION.
- ALL CONSTRUCTION AND EXCAVATION ACTIVITIES SHALL BE CONFINED TO EASEMENTS, ROAD RIGHT-OF-WAY, AND/OR WORK AREA LIMITS AS SHOWN ON DRAWINGS.
- CONTRACTOR SHALL RAISE OR LOWER ALL AFFECTED MANHOLE RIMS AND VALVE BOXES IN THE WORK AREA TO MATCH PROPOSED GRADE.
- ALL AREAS DISTURBED BY CONSTRUCTION ARE FIRST TO BE FINE GRADED AND THEN FOLLOWED BY SEED AND STRAW MULCH, UNLESS OTHERWISE NOTED, OVER, MIN. 4" TOPSOIL STOCKPILED FROM SITE OR HAULED IN AS REQUIRED.
- PROVIDE POSITIVE DRAINAGE FROM ALL IMPROVED AREAS, SO THAT RUNOFF DRAINS TO DRAIN WAYS.
- ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
- ANY DAMAGE TO EXISTING STRUCTURES, VEGETATION, OR IMPROVEMENTS RESULTING FROM NEW CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL SIDEWALKS AND ADA RAMPS SHALL BE IN ACCORDANCE WITH ADA REGULATIONS.
- EROSION CONTROL PLAN SHALL BE FOLLOWED AS DETAILED IN THE ACCOMPANYING SWPPP - STORMWATER POLLUTION PREVENTION PLAN. CONTRACTOR TO PROTECT ANY STORM INLETS, THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION, FROM SEDIMENT. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR. ALL EROSION CONTROL DEVICES, NOT LISTED IN THE PLANS, SHALL BE INCIDENTAL TO CONSTRUCTION.
- ALL TRENCHES, WHICH LIE UNDER PROPOSED PAVEMENT, OR LIE WITHIN TWO FEET OF BACK OF CURB, SHALL BE BACKFILLED TO PAVEMENT SUB-GRADE WITH COMPACTED GRANULAR BACK FILL.
- TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR WHEN PIPES ARE LAID IN FILL.
- ANY REMOVALS NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS, BUT NOT QUANTIFIED IN THE REMOVAL OF IMPROVEMENTS PAY ITEM, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- CONTRACTOR SHALL LOCATE ALL SUMP/HOUSE DRAIN LOCATIONS ALONG PROPOSED SIDEWALK AND INSTALL SIDEWALK DRAIN AS NECESSARY. ALL SIDEWALK DRAINS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- ALL VALVES, LIDS AND BOXES LOCATED WITHIN THE PROPOSED SIDEWALK SHALL BE RAISED OR LOWERED AND MADE ADA COMPLIANT. ANY SUCH ITEMS NOT QUANTIFIED ON THE PAY ITEMS LIST, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

CURB & GUTTER CONSTRUCTION

- CONTRACTOR TO SAW CUT EXISTING ASPHALT STREETS.
- CURB & SIDEWALK SHALL MAINTAIN A UNIFORM GRADE WITH AS FEW BREAKS AS POSSIBLE.

STAGES OF CONSTRUCTION:

- CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.
- INSTALLATION OF EROSION CONTROL MEASURES.
- INSTALLATION OF ALL STORM WATER DRAINAGE IMPROVEMENTS.
- FINAL GRADING.
- PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD.
- REMOVAL OF EROSION CONTROL MEASURES.

TURF REINFORCEMENT NOTE:

TURF REINFORCEMENT SHALL BE INSTALLED ON ALL SLOPES THAT EXCEED 3H:1V. TURF REINFORCEMENT MAT SHALL BE INSTALLED AND STAPLED AS PER THE MANUFACTURER'S SPECIFICATIONS.
TURF REINFORCEMENT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

SEEDING AND MULCHING NOTE:

ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED PER THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

CAUTION:
CONTRACTOR SHALL FIELD VERIFY PROPOSED GRADES MATCH EXISTING ELEVATIONS AT INDICATED LOCATIONS. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCY OCCURS.

THE DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD-VERIFY ACTUAL DEPTHS AT ALL CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF CONFLICT OCCURS.

UTILITY RELOCATIONS:
KNOWN CONFLICTING UTILITY MAINS SHALL BE RELOCATED BY OTHERS. SERVICE LINES IN CONFLICT SHALL BE RELOCATED DURING CONSTRUCTION. CONTRACTOR SHALL EXCAVATE AND EXPOSE EXISTING SERVICE LINES IN CONFLICT.

UTILITY PROVIDERS SHALL RELOCATE SERVICE LINES AND INSTALL NEW CONNECTIONS.

CONTRACTOR SHALL BACKFILL AND REPLACE PAVEMENT AFTER NEW SERVICE CONNECTIONS ARE COMPLETED.

NOTE FOR CURB AND GUTTER REPLACEMENT:
ALL NEW CURB AND GUTTER SHALL MEET APPLICABLE CITY AND/OR COUNTY SPECIFICATIONS AND STANDARD DETAILS. CONTRACTOR SHALL MATCH EXISTING GUTTER FLOW LINES FOR PLACEMENT OF NEW CURB AND GUTTER, EXCEPT WHERE STATED OTHERWISE ON THE PLANS.

CONTRACTOR SHALL GRADE FROM BACK OF CURB TO TEMPORARY CONSTRUCTION EASEMENT OR RIGHT OF WAY AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE TO TOP OF CURB.



REVISIONS		BY	DATE						
DESCRIPTION									
No.									

TAP-1601(705)
SIDEWALKS

ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-1.1
GENERAL NOTES

PROJECT NUMBER:
230012
DATE:
10/16/2025



PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836

MOBILIZATION	
(LS) =	1

SEEDING & MULCH	
(AC) =	0.5

REMOVAL OF IMPROVEMENTS									
SHEET	LOCATION	STATION	TO	STATION	(EACH)	(LF)	(SY)	(LS)	REMARKS
C-4.1	RTE. HH	24+19			1				REMOVE EXISTING PEDESTRIAN CROSSING SIGN
C-4.2	RTE. HH	28+13			1				REMOVE EXISTING PEDESTRIAN CROSSING SIGN
C-4.2	RTE. HH	28+25	-	28+35			3.5		CONCRETE CURB RAMP/SIDEWALK REMOVAL
C-4.2	RTE. HH	28+25	-	28+40			6.1		REMOVE EXISTING WHITE MIDBLOCK CROSSWALK
C-4.2	RTE. HH	28+84			1				REMOVE EXISTING PEDESTRIAN CROSSING SIGN
C-4.2	RTE. HH	32+50			1				REMOVE EXISTING PEDESTRIAN CROSSING SIGN
C-4.7	CHAPEL RD.	7+93	-	8+57			24.1		ASPHALT PAVEMENT REMOVAL
C-4.9	CHAPEL RD.	11+27	-	11+92			24.1		ASPHALT PAVEMENT REMOVAL
C-4.10	CHAPEL RD.	18+18	-	18+45			10.9		ASPHALT PAVEMENT REMOVAL
				TOTAL	4	0.0	68.7		
				USE				1	

RELOCATE				
SHEET	LOCATION	STATION	(EACH)	REMARKS
C-4.2	ROUTE HH	28+97	1	STOP SIGN
C-4.9	CHAPEL RD.	11+24	1	STOP SIGN
		TOTAL	2	
		USE	2	

TYPE "A" SIDEWALK						
SHEET	LOCATION	STATION	TO	STATION	(SY)	REMARKS
C-4.1	RTE. HH	25+03.70	-	25+19.48	10.36	
C-4.1 to C-4.2	RTE. HH	25+14.48	-	28+48.61	185.63	
C-4.2	RTE. HH	29+01.40	-	29+40.00	22.21	
C-4.3 to C-4.4	RTE. HH	35+00.00	-	41+94.88	386.04	
C-4.4 to C-4.5	RTE. HH	42+38.10	-	49+03.87	369.37	
C-4.6	CHAPEL RD.	2+00.53	-	3+51.28	84.48	
C-4.6 to C-4.7	CHAPEL RD.	4+06.41	-	5+25.79	67.92	
C-4.7	CHAPEL RD.	5+94.26	-	6+13.27	10.56	
C-4.7	CHAPEL RD.	6+58.31	-	6+63.31	4.73	
C-4.7	CHAPEL RD.	6+58.31	-	7+83.76	70.51	
C-4.7 to C-4.9	CHAPEL RD.	8+66.17	-	11+18.79	142.99	
C-4.9 to C-4.10	CHAPEL RD.	12+00.99	-	18+07.38	336.88	
C-4.10	CHAPEL RD.	18+51.56	-	18+60.85	11.07	
				TOTAL	1,702.75	
				USE	1703	

TYPE "B" SIDEWALK						
SHEET	LOCATION	STATION	TO	STATION	(SY)	REMARKS
C-4.2 to C-4.3	RTE. HH	29+40.00	-	35+00.00	311.41	
C-4.5 to C-4.6	CHAPEL RD.	0+51.78	-	2+00.53	94.42	
C-4.7	CHAPEL RD.	6+13.27	-	6+58.31	26.63	
				TOTAL	432.46	
				USE	432	

MODOT TYPE 1-A CURB RAMP						
SHEET	LOCATION	STATION	TO	STATION	(SY)	REMARKS
C-4.1	ROUTE HH	25+03.03	-	25+14.48	6.78	
C-4.2	ROUTE HH	28+48.61	-	28+59.66	6.63	
C-4.2	ROUTE HH	28+93.01	-	29+01.40	5.51	
C-4.4	ROUTE HH	41+94.88	-	42+03.91	4.80	
C-4.4	ROUTE HH	42+29.95	-	42+38.10	4.49	
C-4.6	CHAPEL RD.	3+96.23	-	4+06.41	6.13	
C-4.7	CHAPEL RD.	6+57.81	-	6+63.81	5.40	RT.
C-4.7	CHAPEL RD.	6+57.81	-	6+63.81	6.02	L.T.
C-4.7	CHAPEL RD.	7+83.76	-	7+92.62	5.85	
C-4.7	CHAPEL RD.	8+57.34	-	8+66.17	5.81	
C-4.9	CHAPEL RD.	11+18.79	-	11+27.38	5.70	
C-4.9	CHAPEL RD.	11+92.08	-	12+00.99	5.86	
C-4.10	CHAPEL RD.	18+07.38	-	18+17.79	6.38	
C-4.10	CHAPEL RD.	18+45.44	-	18+55.89	6.39	
				TOTAL	81.73	
				USE	82	

MODOT TYPE 1-B CURB RAMP						
SHEET	LOCATION	STATION	TO	STATION	(SY)	REMARKS
C-4.6	CHAPEL RD.	3+51.28	-	3+69.24	9.81	
C-4.7	CHAPEL RD.	5+25.79	-	5+41.99	8.62	
C-4.7	CHAPEL RD.	5+78.56	-	5+94.26	8.53	
				TOTAL	26.97	
				USE	27	

CONCRETE STREET CROSSING						
SHEET	LOCATION	STATION	TO	STATION	(SY)	REMARKS
C-4.7	CHAPEL RD.	7+92.62	-	8+57.34	72.31	
C-4.9	CHAPEL RD.	11+27.38	-	11+92.08	72.18	
C-4.10	CHAPEL RD.	18+17.79	-	18+45.44	32.83	
				TOTAL	177.32	
				USE	177	

CURB & GUTTER						
SHEET	LOCATION	STATION TO	STATION	(LF)	REMARKS	
C-4.6	CHAPEL RD.	3+50.77	-	3+61.95	11.80	
				TOTAL	11.80	
				USE	12	

COMPACTED CRUSHED STONE			
SHEET	LOCATION	(TONS)	REMARKS
C-4.1 to C-4.10	SIDEWALK "A"	153.3	
C-4.2 to C-4.7	SIDEWALK "B"	38.9	
C-4.6 to C-4.7	TYPE "A" CURB RAMP	4.9	
C-4.1 to C-4.10	TYPE "B" CURB RAMP	14.8	
C-4.7 to C-4.10	CONCRETE STREET CROSSING	15.9	
C-4.6	CURB & GUTTER	0.7	
	TOTAL	228.4	
	USE	228	

TACTILE WARNING SURFACE				
SHEET	LOCATION	STATION	(SF)	REMARKS
C-4.6	CHAPEL RD.	3+61	15.1	
C-4.6	CHAPEL RD.	4+01	10.0	
C-4.7	CHAPEL RD.	5+35	13.3	
C-4.7	CHAPEL RD.	5+86	13.1	
C-4.7	CHAPEL RD.	6+61	10.0	RT
C-4.7	CHAPEL RD.	6+61	10.0	LT
C-4.7	CHAPEL RD.	7+89	10.0	
C-4.7	CHAPEL RD.	8+61	10.0	
C-4.9	CHAPEL RD.	11+24	10.0	
C-4.9	CHAPEL RD.	11+96	10.0	
C-4.10	CHAPEL RD.	18+12	10.0	
C-4.10	CHAPEL RD.	18+51	10.0	
		TOTAL	131.46	
		USE	131	

WHITE MIDBLOCK CROSSWALK						
SHEET	LOCATION	STATION	TO	STATION	(EA)	REMARKS
C-4.7	CHAPEL RD.	6+57.81	-	6+63.81	7	
				TOTAL	7	
				USE	7	

24" WHITE STOP BAR				
SHEET	LOCATION	STATION	(LF)	REMARKS
C-4.1	ROUTE HH	24+89.96	24	
C-4.2	ROUTE HH	28+82.26	22	
C-4.7	CHAPEL RD.	8+02.50	20	
C-4.9	CHAPEL RD.	11+37.18	20	
C-4.10	CHAPEL RD.	18+25.08	14	
		TOTAL	100	
		USE	100	

18" RCP						CLASS 3 EXCAVATION				
SHEET	LOCATION	STATION	TO	STATION	(LF)	LENGTH	WIDTH	DEPTH	(CY)	REMARKS
C-4.6	CHAPEL RD.	3+42.21	-	3+48.46	12	12	4.50	1.70	3.40	
C-4.7	CHAPEL RD.	5+12.56	-	5+20.45	16	16	4.50	2.14	5.70	
C-4.7	CHAPEL RD.	6+06.78	-	6+13.96	18	18	4.50	2.78	8.33	
				TOTAL	46			TOTAL	17.43	
				USE	46			USE	17	

24" RCP						CLASS 3 EXCAVATION				
SHEET	LOCATION	STATION	TO	STATION	(LF)	LENGTH	WIDTH	DEPTH	(CY)	REMARKS
C-4.7	CHAPEL RD.	6+16.94	-	6+19.32	10					
				TOTAL	10			TOTAL	0.00	
				USE	10			USE	0	

ROCK LINING					
SHEET	LOCATION	STATION	TO	STATION	(CY)
C-4.6	CHAPEL RD.	3+46.82	-	3+61.02	1.9
C-4.7	CHAPEL RD.	5+18.72	-	5+36.61	2.9
C-4.7	CHAPEL RD.	6+12.97	-	6+26.97	3.1
				TOTAL	7.9
				USE	8

CONCRETE STORM WATER STRUCTURES					CLASS 3 EXCAVATION				
SHEET	LOCATION	STATION	TYPE "A" CURB INLET (EA)	TYPE "B" CURB INLET (EA)	LENGTH	WIDTH	DEPTH	(CY)	REMARKS
C-4.6	CHAPEL RD.	3+42.27		1	11	7	2.21	6.30	
C-4.7	CHAPEL RD.	5+12.55	1		7	7	2.71	4.92	
C-4.7	CHAPEL RD.	6+06.77	1		7	7	2.71	4.92	
		TOTAL	2	1			TOTAL	16.14	
		USE	2	1			USE	16	

RECTANGULAR RAPID FLASHING BEACON (SOLAR)				
SHEET	LOCATION	STATION	(EA)	REMARKS
C-4.7	CHAPEL RD.	6+61	2	
		TOTAL	2	
		USE	2	

SIGNAGE				
SHEET	LOCATION	STATION	(SF)	REMARKS
C-4.7	CHAPEL RD.	4+57	9.00	W11-2
C-4.7	CHAPEL RD.	4+57	3.75	W16-9P
C-4.7	CHAPEL RD.	6+57	9.00	W11-2
C-4.7	CHAPEL RD.	6+57	3.75	W16-7P
C-4.7	CHAPEL RD.	6+65	9.00	W11-2
C-4.7	CHAPEL RD.	6+65	3.75	W16-7P
C-4.7	CHAPEL RD.	8+79	9.00	W11-2
C-4.7	CHAPEL RD.	8+79	3.75	W16-9P
		TOTAL	51.00	
		USE	51.0	

ROCK DITCH CHECK				
SHEET	LOCATION	STATION	(EA)	REMARKS
C-4.2	ROUTE HH	31+11	1	
C-4.2	ROUTE HH	32+11	1	
C-4.7	CHAPEL RD.	6+79	1	
C-4.7	CHAPEL RD.	7+79	1	
		TOTAL	4	
		USE	4	

LINEAR GRADING					
SHEET	LOCATION	STATION	TO	STATION	(STA.)
C-4.1 TO C-4.5	ROUTE HH	25+00.00	-	50+00.00	25.0
C-4.6 TO C-4.10	CHAPEL RD.	0+00.00	-	18+61.00	18.6
				TOTAL	43.6
				USE	43.6

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TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

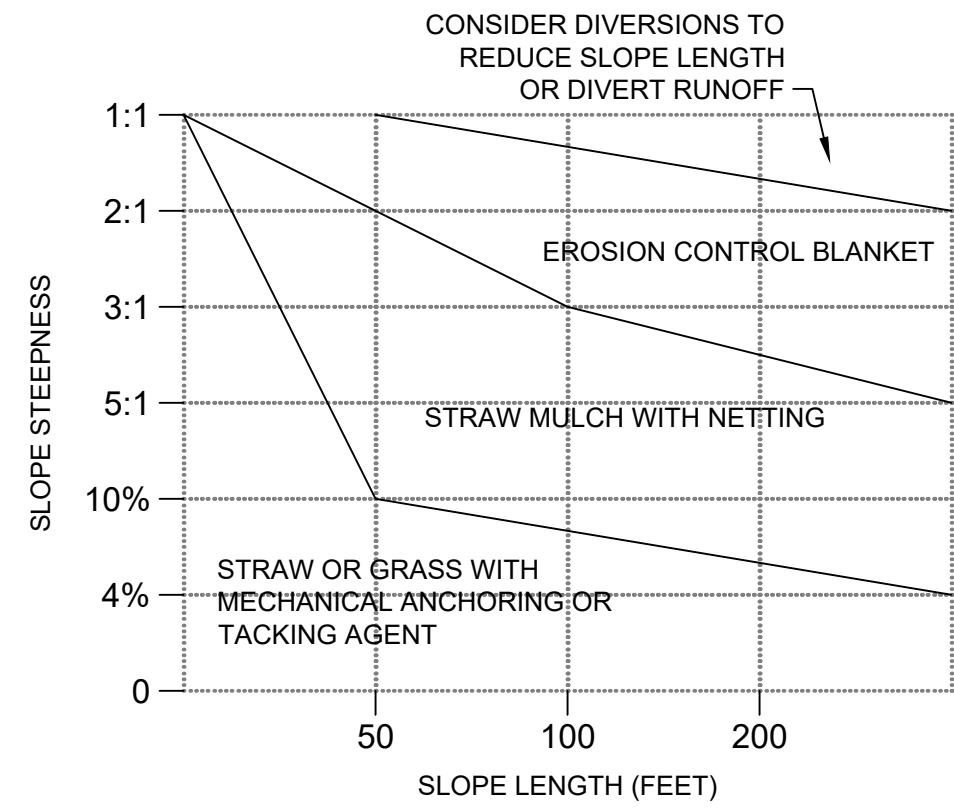
C-1.2 QUANTITIES

PROJECT NUMBER:
230012
DATE:
10/16/2025



PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836

																				EFFECTIVE: 07-01-2024		SEAL OF MISSOURI JOHN JASON ECKHART REGISTERED PROFESSIONAL ENGINEER NUMBER FE-30102 DATE 12/23/23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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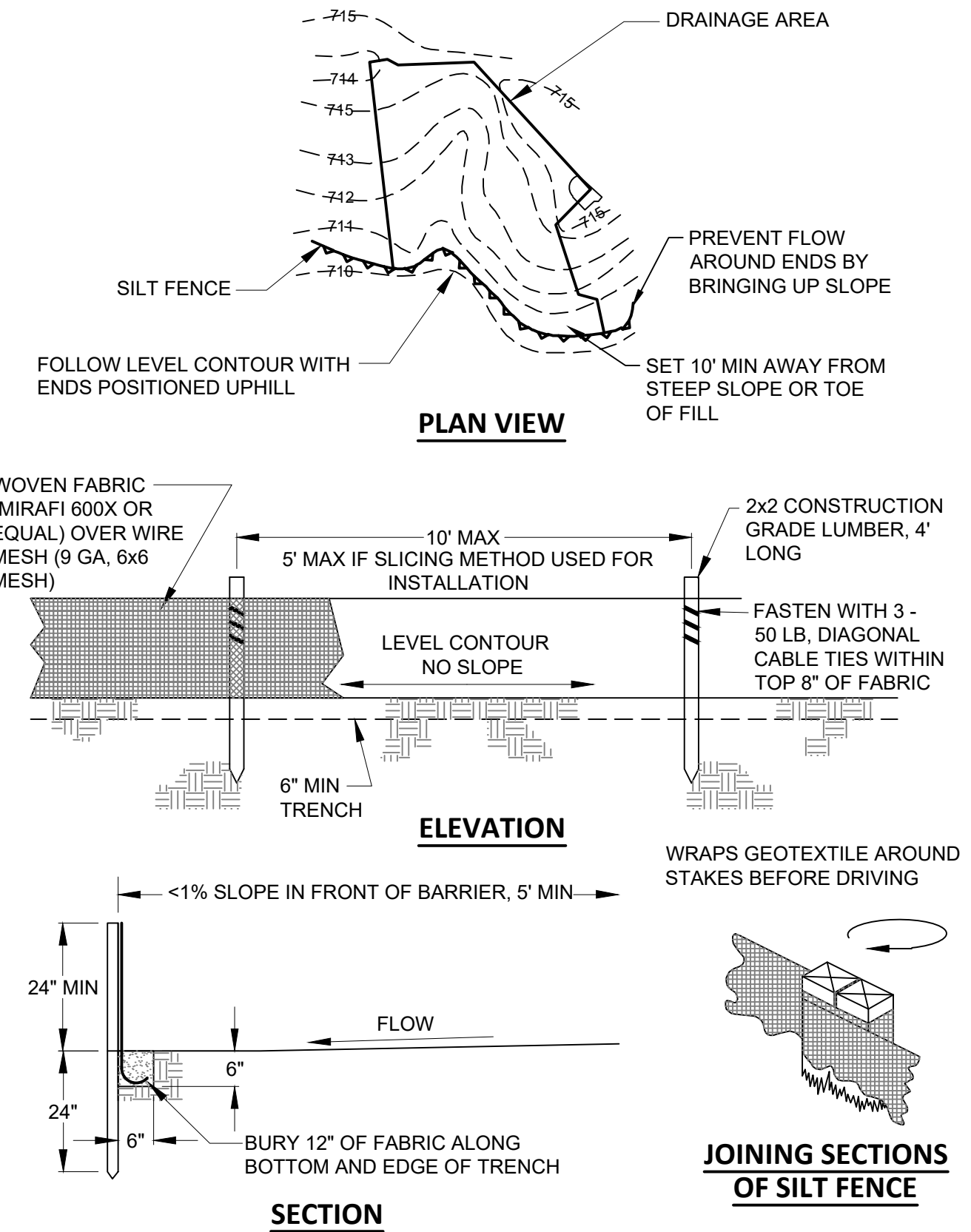


MULCH SELECTION AS A FUNCTION OF SLOPE

MULCH APPLICATION			
MATERIALS	RATE/ACRE	REQUIREMENTS	NOTES
STRAW	2 - 2 1/2 TONS	DRY, UNCHOPPED, UNWEATHERED; AVOID WEEDS	SPREAD BY HAND OR MACHINE; MUST BE TACKED OR TIED DOWN
WOOD FIBER OR WOOD CELLULOSE	1/2 - 1 TON		USE WITH HYDROSEEDER; MAY BE USED TO TACK STRAW. DO NOT USE IN HOT, DRY WEATHER.
WOOD CHIPS	5 - 6 TONS	AIR DRY. ADD NITROGEN FERTILIZER AT 12 LB/TON	APPLY WITH BLOWER, SHIP HANDLER, OR BY HAND. NOT FOR FINE TURF AREAS.
BARK	35 CU. YDS.	AIR DRY, SHREDDED OR HAMMERMILLED, OR CHIPS.	APPLY WITH MULCH BLOWER, CHIP HANDLER, OR BY HAND. DO NOT USE ASPHALT TACK.

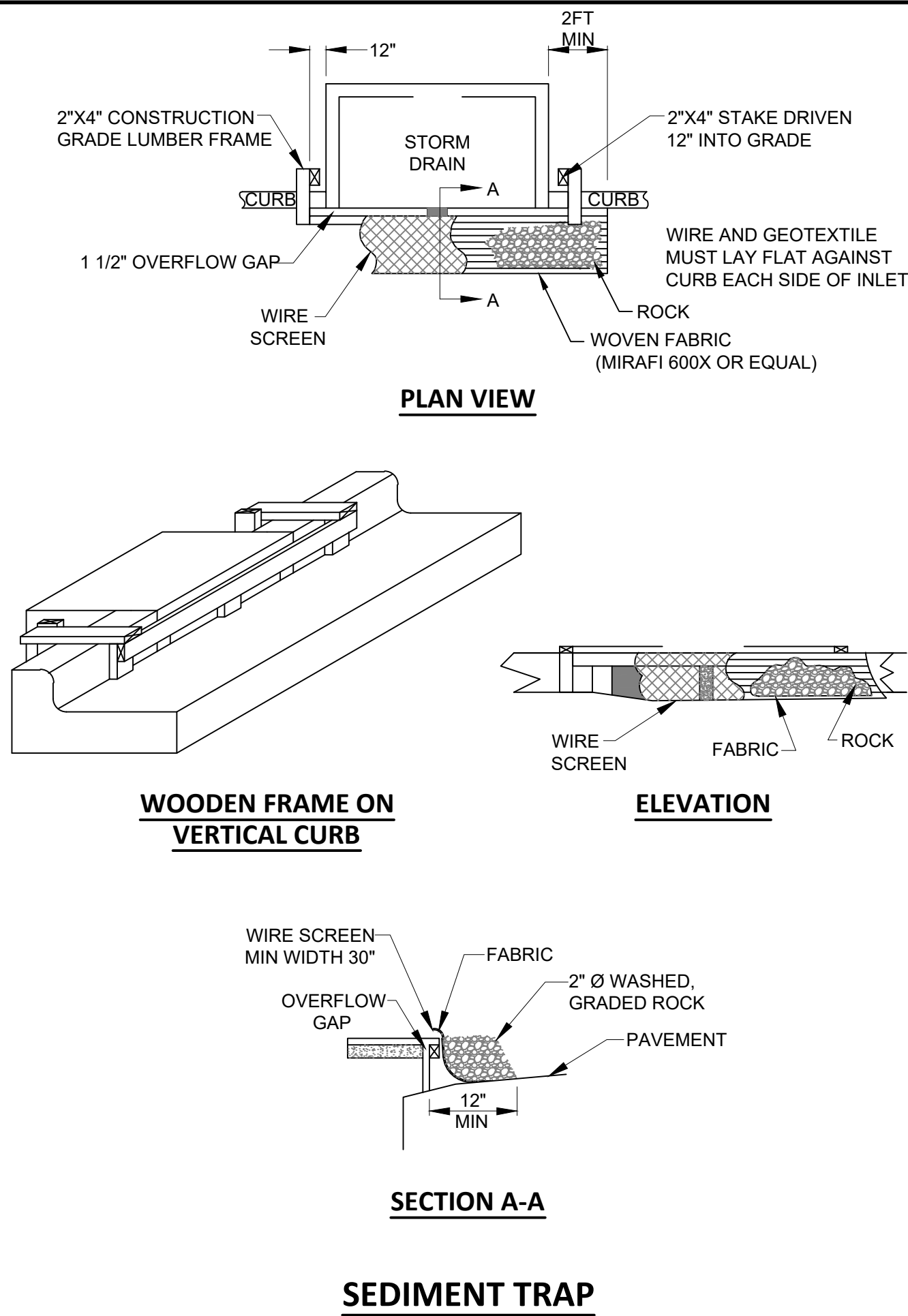
NOTE:
INSTALL FOR SHEET FLOW ONLY.
INSTALL UPSTREAM BMP'S AS REQUIRED.

MULCHING

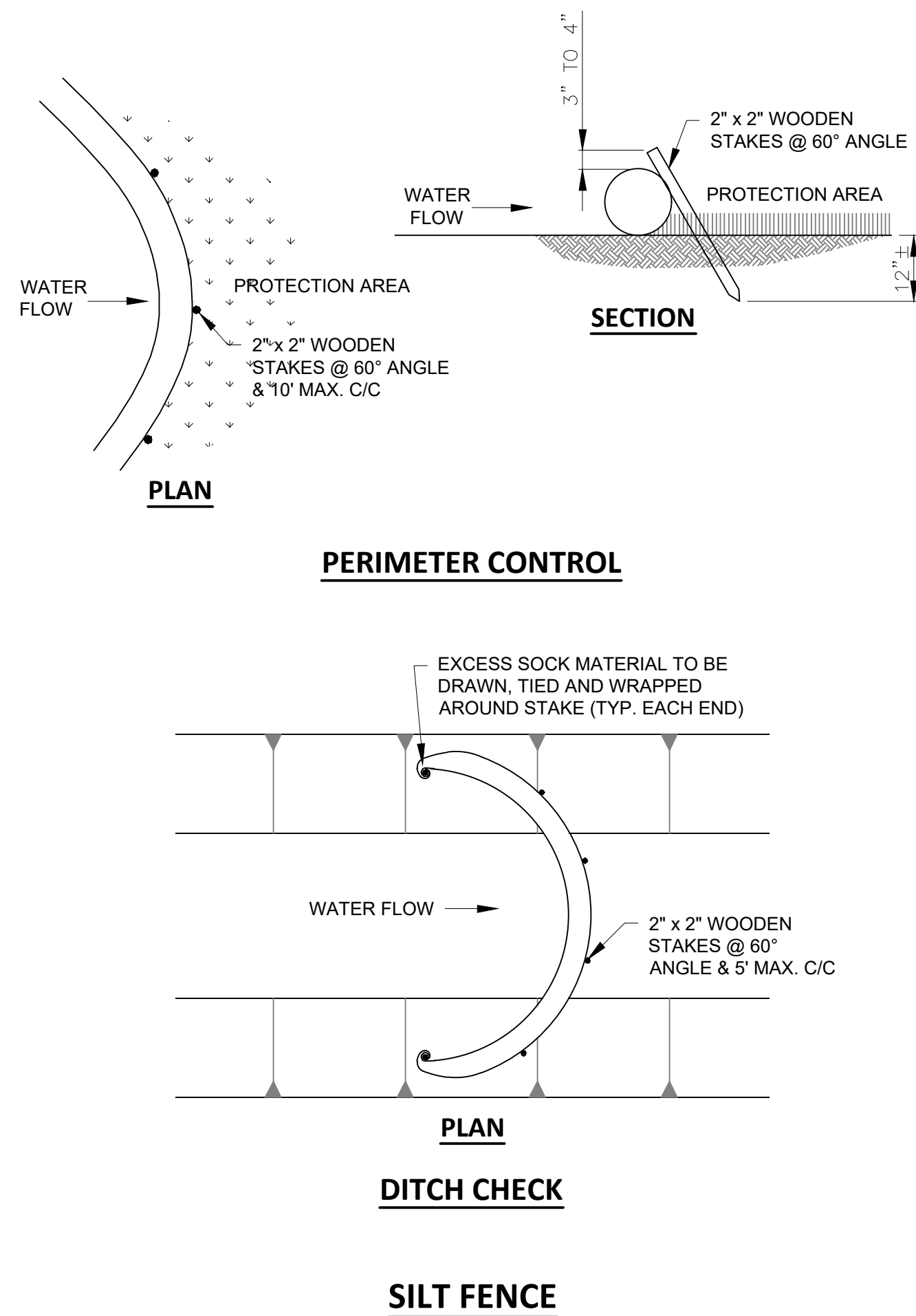


NOTE:
IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT NEEDED

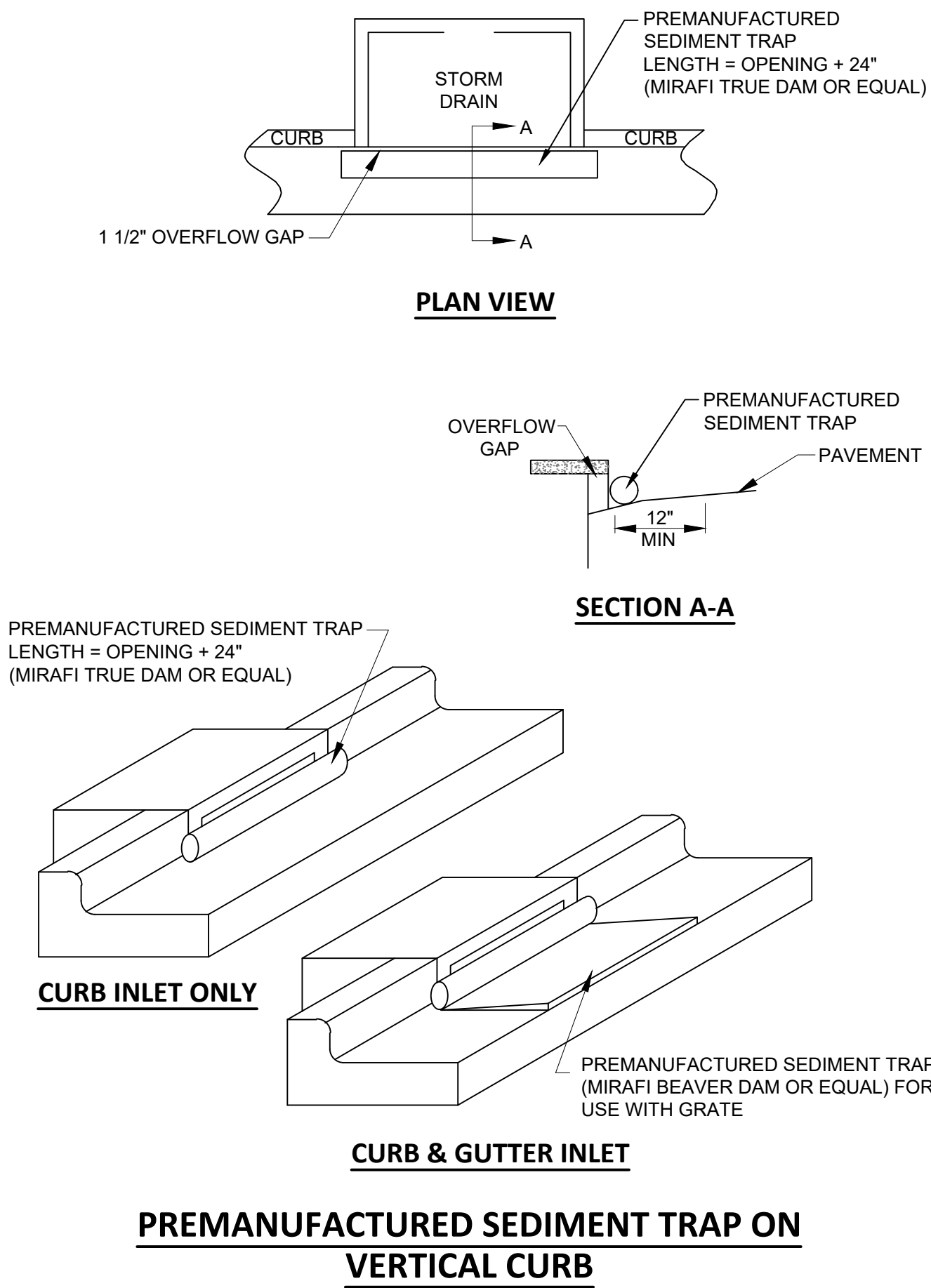
SILT FENCE



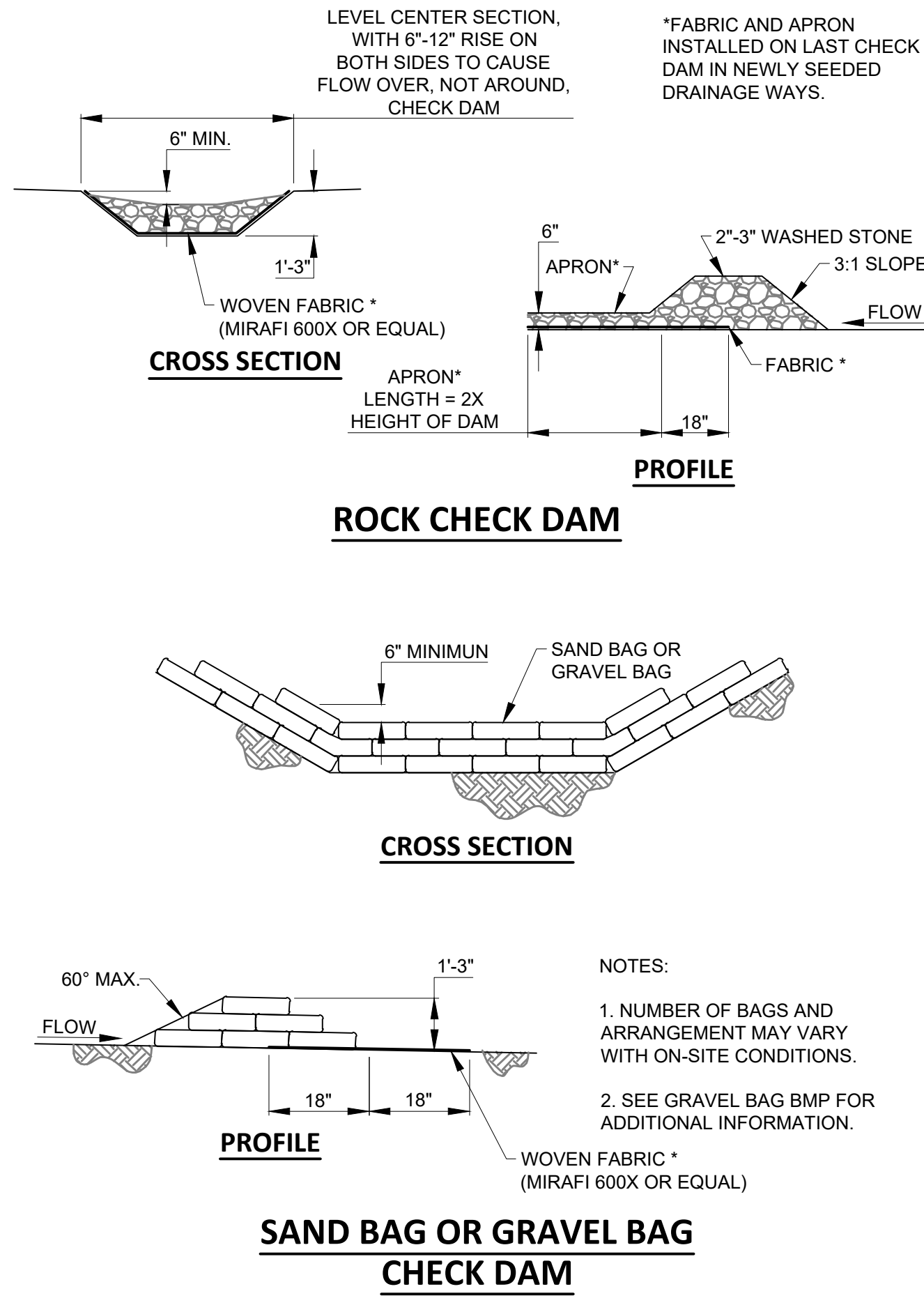
SEDIMENT TRAP



SILT FENCE



PREMANUFACTURED SEDIMENT TRAP ON VERTICAL CURB



SAND BAG OR GRAVEL BAG CHECK DAM



REVISIONS	NO.	DESCRIPTION	DATE

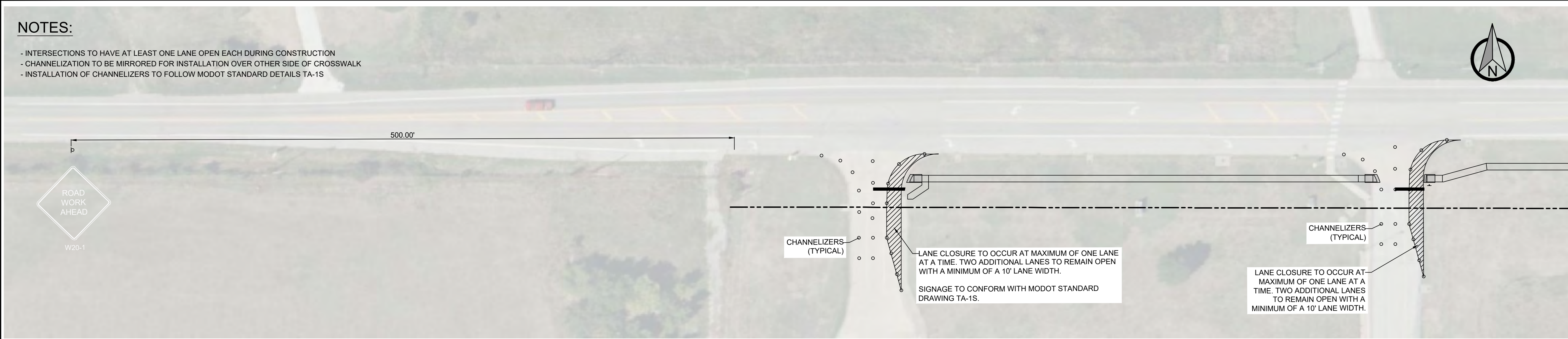
TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-2.1
EROSION CONTROL
DETAILS
PROJECT NUMBER: 230012
DATE: 10/16/2025



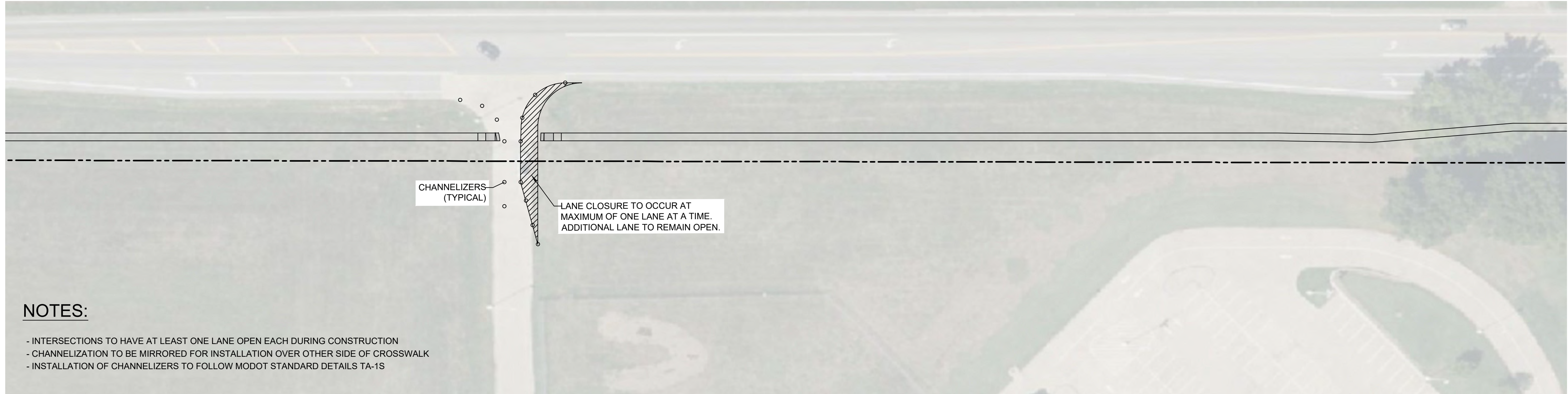
NOTES:

- INTERSECTIONS TO HAVE AT LEAST ONE LANE OPEN EACH DURING CONSTRUCTION
- CHANNELIZATION TO BE MIRRORED FOR INSTALLATION OVER OTHER SIDE OF CROSSWALK
- INSTALLATION OF CHANNELIZERS TO FOLLOW MODOT STANDARD DETAILS TA-1S



STEADLY ELEMENTARY ENTRANCES TRAFFIC CONTROL

SCALE: 1" = 40'

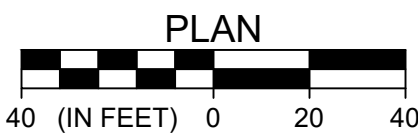


NOTES:

- INTERSECTIONS TO HAVE AT LEAST ONE LANE OPEN EACH DURING CONSTRUCTION
- CHANNELIZATION TO BE MIRRORED FOR INSTALLATION OVER OTHER SIDE OF CROSSWALK
- INSTALLATION OF CHANNELIZERS TO FOLLOW MODOT STANDARD DETAILS TA-1S

CARTHAGE INTERMEDIATE CENTER ENTRANCES TRAFFIC CONTROL

SCALE: 1" = 40'



REVISIONS		
NO.	DESCRIPTION	DATE

C-3.0

TRAFFIC CONTROL
PLAN

TAP-1601(705)

SIDEWALKS

ROUTE HH & CHAPEL ROAD

CARTHAGE, MISSOURI

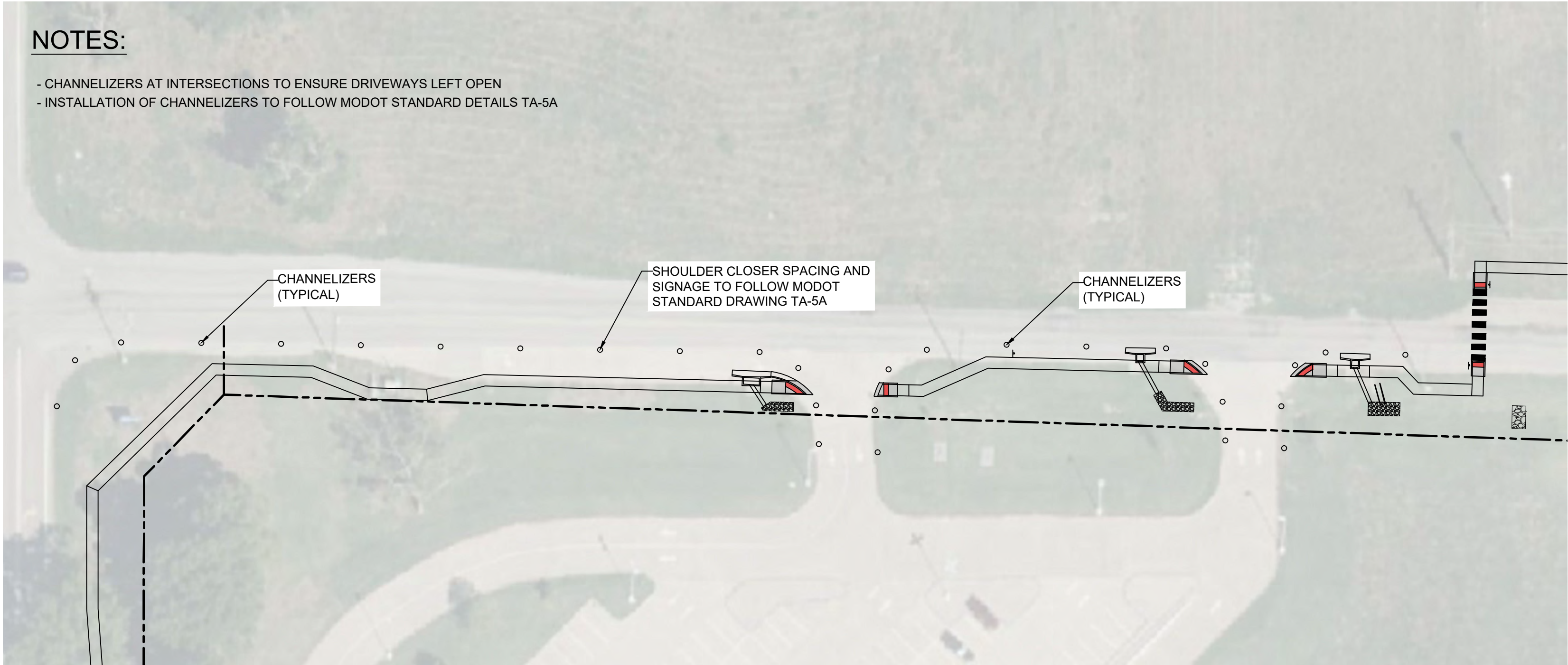
PROJECT NUMBER:
230012

DATE:
10/16/2025



NOTES:

- CHANNELIZERS AT INTERSECTIONS TO ENSURE DRIVEWAYS LEFT OPEN
- INSTALLATION OF CHANNELIZERS TO FOLLOW MODOT STANDARD DETAILS TA-5A

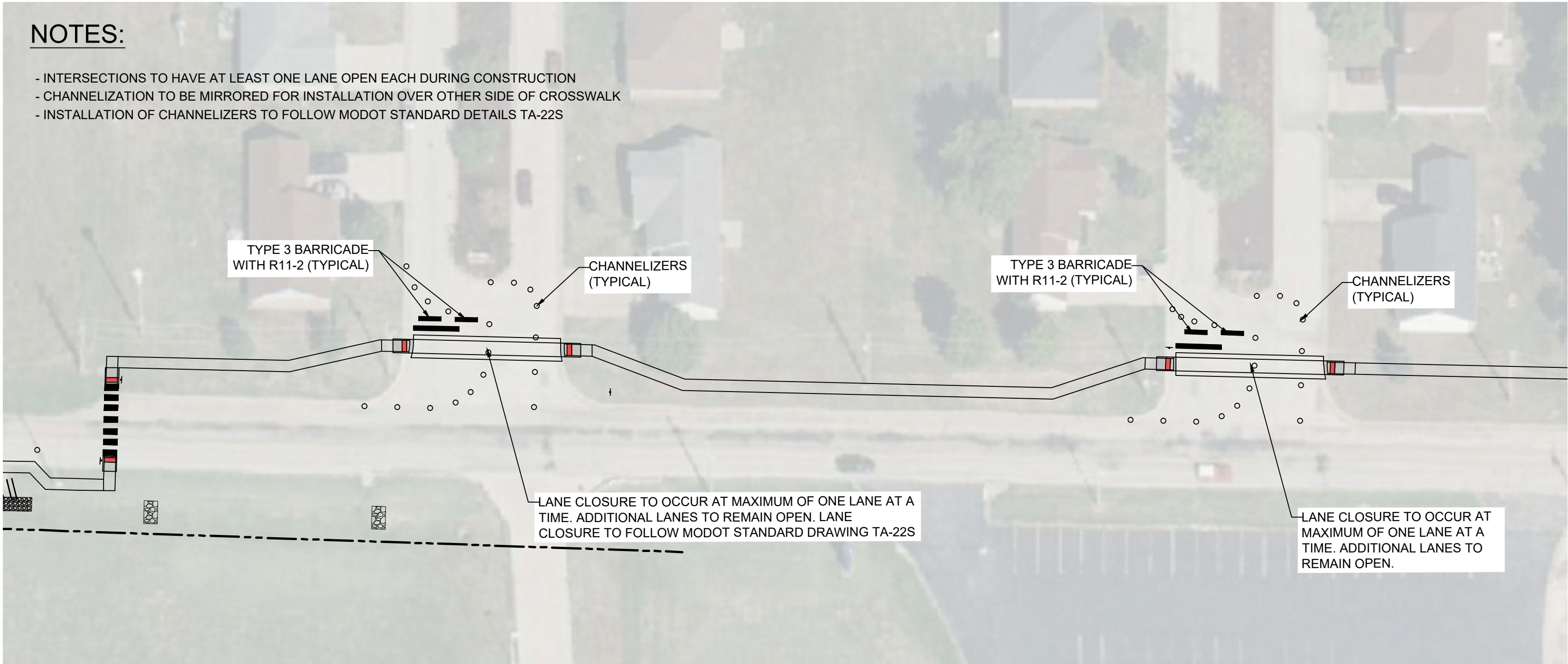


CHAPEL ROAD SHOULDER WORK TRAFFIC CONTROL

SCALE: 1" = 40'

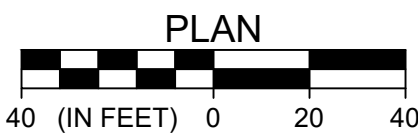
NOTES:

- INTERSECTIONS TO HAVE AT LEAST ONE LANE OPEN EACH DURING CONSTRUCTION
- CHANNELIZATION TO BE MIRRORRED FOR INSTALLATION OVER OTHER SIDE OF CROSSWALK
- INSTALLATION OF CHANNELIZERS TO FOLLOW MODOT STANDARD DETAILS TA-22S



REATA AVE & WYNDHAM LANE TRAFFIC CONTROL

SCALE: 1" = 40'



REVISIONS		
NO.	DESCRIPTION	DATE

C-3.1

TRAFFIC CONTROL
PLAN

TAP-1601(705)

SIDEWALKS

ROUTE HH & CHAPEL ROAD

CARTHAGE, MISSOURI

PROJECT NUMBER:
230012

DATE:
10/16/2025

ZANEVAN

ENGINEERING

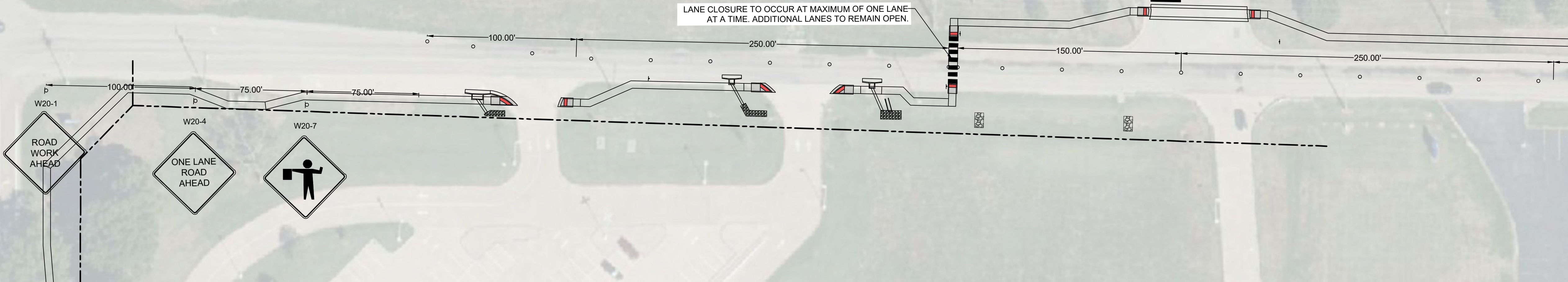
PHONE: 417-800-2500

1221 OAK ST.

CARTHAGE, MO 64836

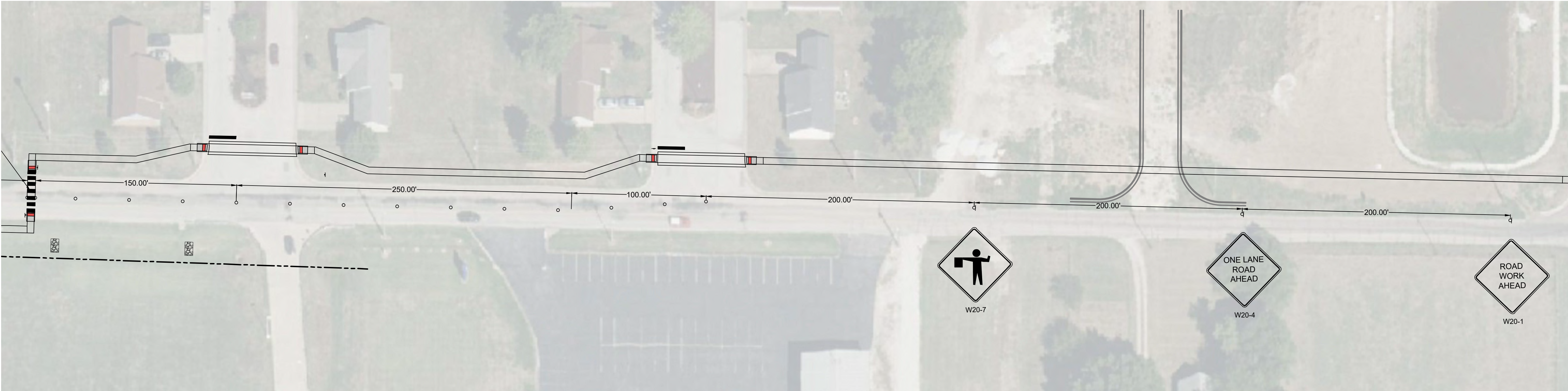
NOTES:

- INSTALLATION OF CHANNELIZERS TO FOLLOW MODOT STANDARD DETAILS TA-10S
- LANE CLOSURE TO MIRROR THAT SHOWN ON PLANS WHEN INSTALLING OPPOSITE SIDE OF ROAD.



CHAPEL ROAD CROSSWALK TRAFFIC CONTROL

SCALE: 1" = 40'



CHAPEL ROAD CROSSWALK TRAFFIC CONTROL

SCALE: 1" = 40'



REVISIONS		NO.	DESCRIPTION	BY	DATE

C-3.2

TRAFFIC CONTROL
PLAN

TAP-1601(705)

SIDEWALKS

ROUTE HH & CHAPEL ROAD

CARTHAGE, MISSOURI

PROJECT NUMBER:
230012

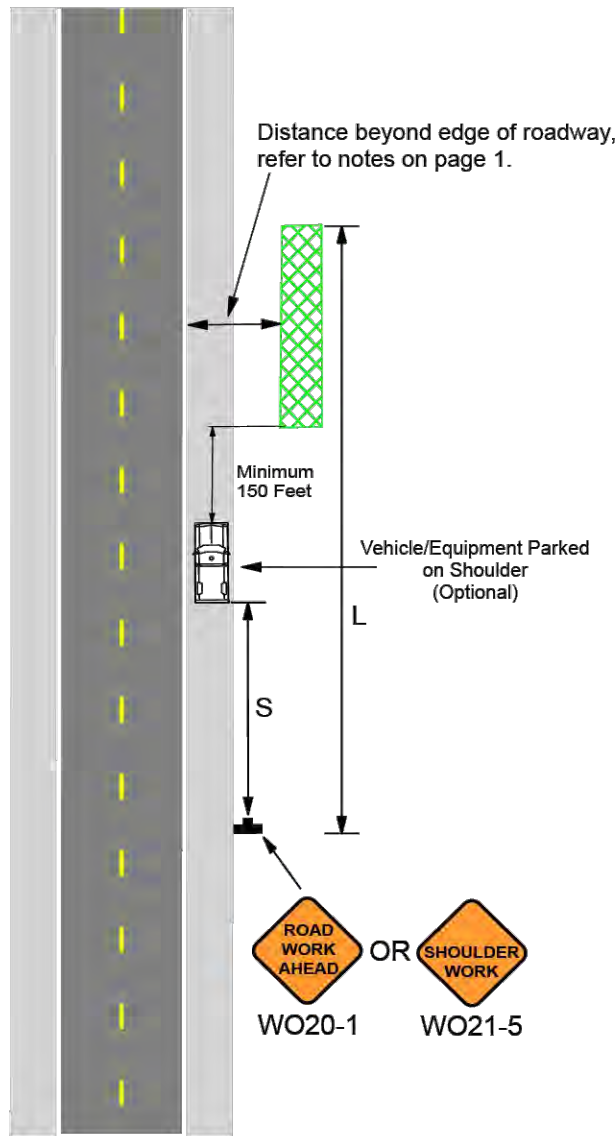
DATE:
10/16/2025



616.8.1S (TA-1S) Stationary Work Beyond the Shoulder

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)	RECOMMENDED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (T1)	Lane (T2)
0-35	200	200	-	-
40-45	350	500	-	-
50-55	500	1000	-	-
60-70	1000	1000	-	-

TYPE OF ROADWAY	SIGN HEIGHT (MINIMUM)	MAXIMUM WORK ZONE LENGTH (L)	Sign
URBAN	1' Portable 7' Post	1 MI.	Work Space
RURAL DIVIDED	1' Portable 7' Post	2 MI.	
RURAL UNDIVIDED	1' Portables 5' Post	3 MI.	
VEHICLE	48 Inches Recommended	-	



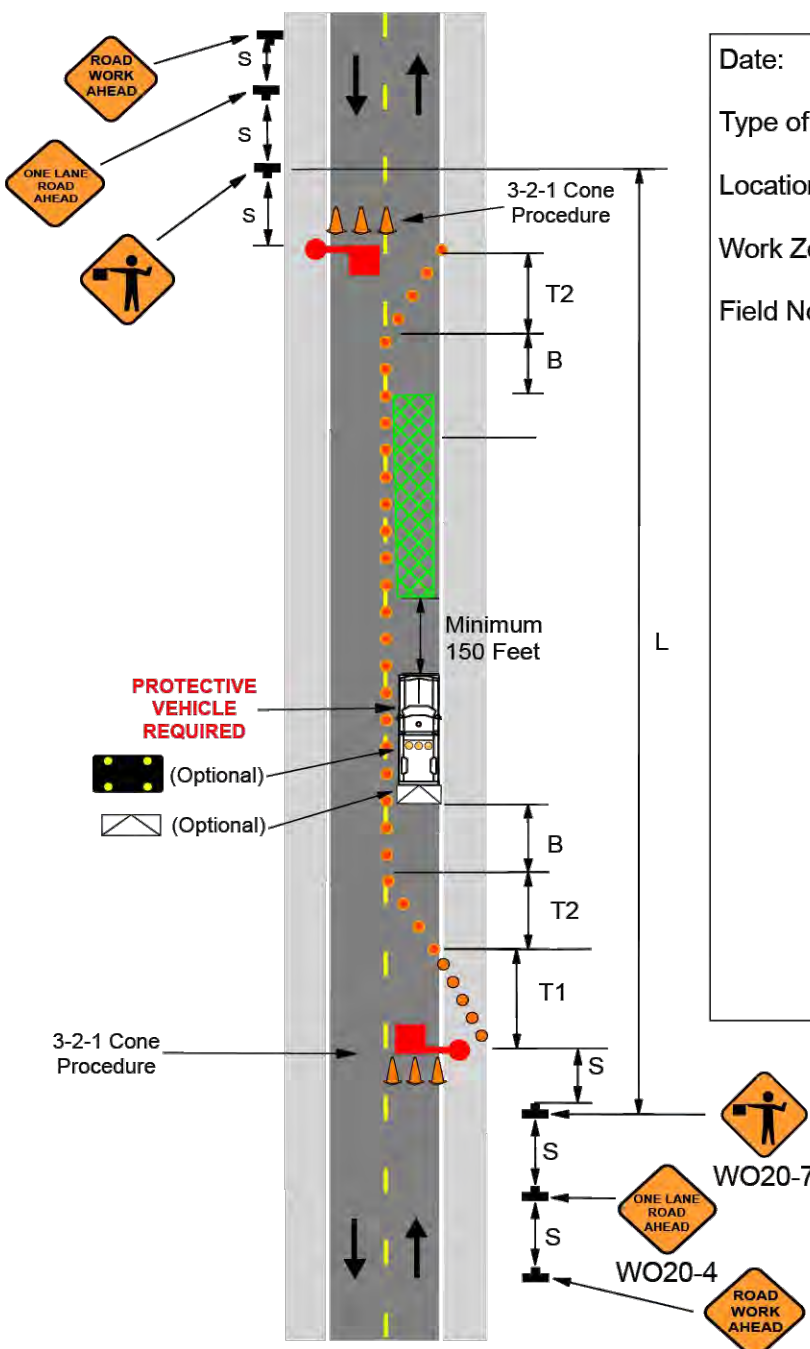
Page 2 of 2

9/2023

616.8.10S (TA-10S) Stationary Lane Closure on a Two-Lane Highway Using Flaggers

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)	RECOMMENDED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Undivided (S)	Shoulder (T1)	Lane (T2)	Buffer Length (ft.) (B)
0-35	200	35	100	250
40-45	350	35	100	360
50-55	500	35	100	495
60-70	1000	35	100	730

TYPE OF ROADWAY	SIGN HEIGHT (MINIMUM)	MAXIMUM WORK ZONE LENGTH (L)	Channelizer	Sign	Protective Vehicle
URBAN	1' Portable 7' Post	1 MI.	Flashing Arrow Panel	Sign	Truck/Trailer Mounted Attenuator (TMA)
RURAL UNDIVIDED	1' Portable 5' Post	3 MI.	Flagger		Work Space



Page 2 of 2

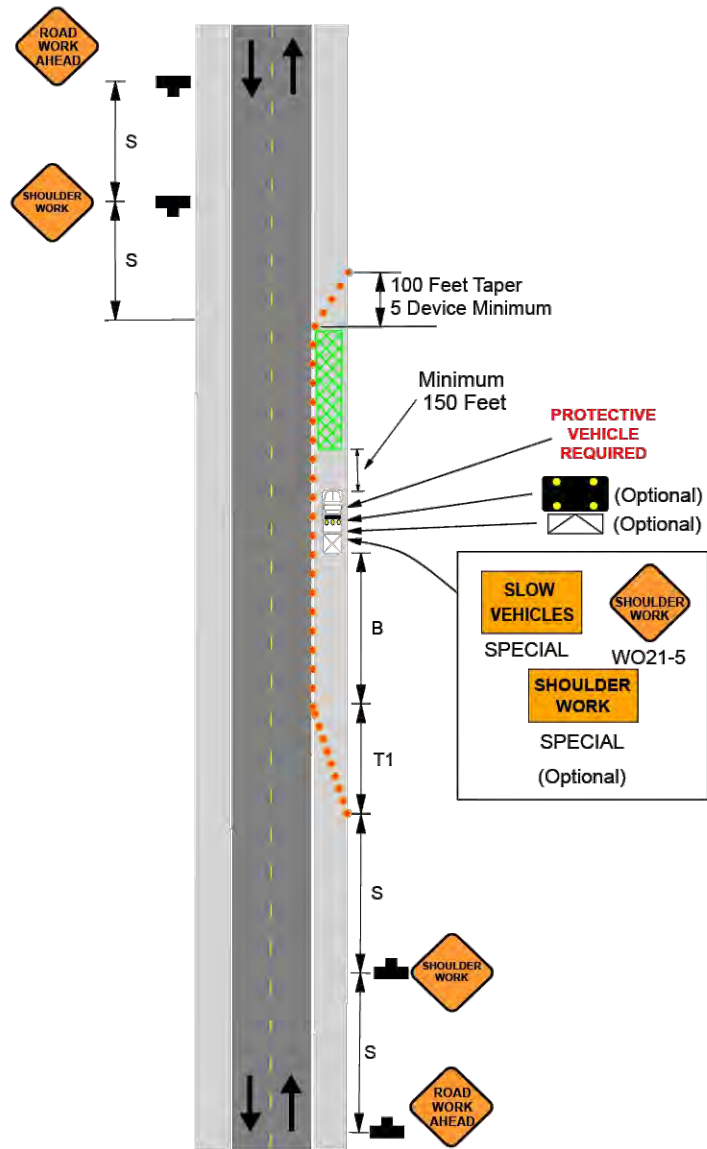
WO20-1

9/2023

616.8.5A (TA-5A) Long-Term Shoulder Closure

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)	RECOMMENDED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Undivided (S)	Shoulder (T1)	Lane (T2)	Buffer Length (ft.) (B)
0-35	200	70	-	250
40-45	350	150	-	360
50-55	500	185	-	495
60-70	1000	235	-	730

TYPE OF ROADWAY	SIGN HEIGHT (MINIMUM)	MAXIMUM WORK ZONE LENGTH (L)	Channelizer	Sign	Protective Vehicle
URBAN	7' Post	1 MI.	Flashing Arrow Panel	Sign	Truck Mounted Attenuator (TMA)
RURAL DIVIDED	7' Post	2 MI.			Work Space
VEHICLE	48 Inches Recommended	-			



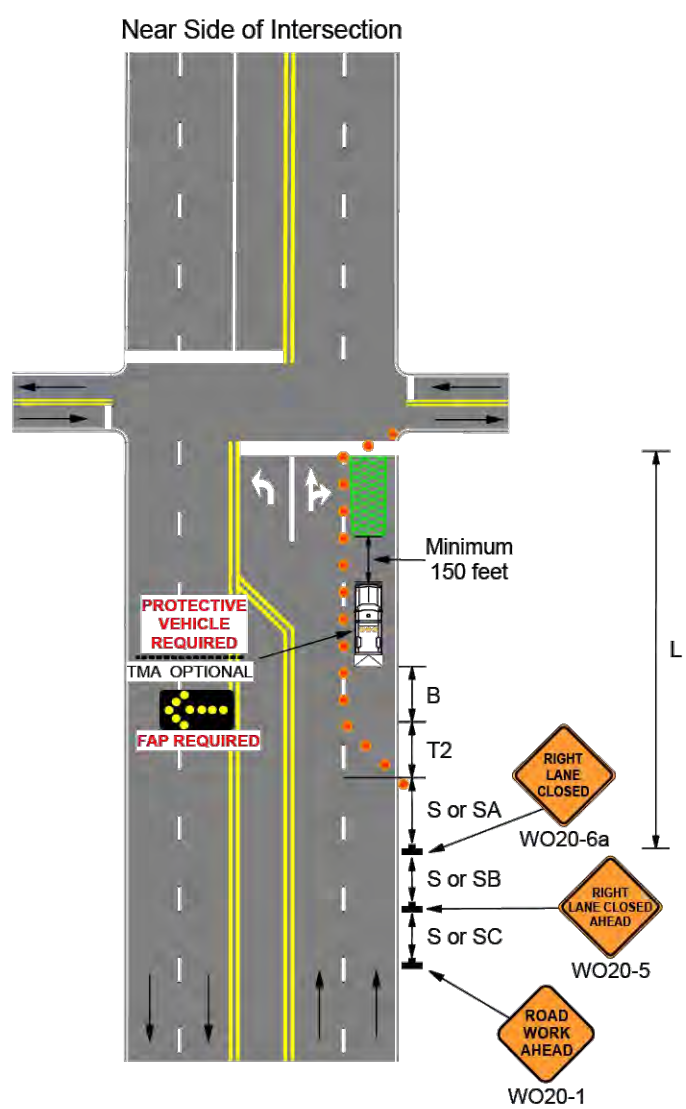
Page 2 of 3

9/2023

616.8.22S (TA-22S) Stationary Right Lane Closure at an Intersection

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)	RECOMMENDED	CHANNELIZER SPACING (ft.)
Normal Posted (mph)	Undivided (S)	Shoulder (T1)	Lane (T2)	Buffer Length (ft.) (B)
0-35	200	70	245	250
40-45	350	500	540	360
50-55	500	1000	660	495
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840

TYPE OF ROADWAY	SIGN HEIGHT (MINIMUM)	MAXIMUM WORK ZONE LENGTH (L)	Channelizer	Sign	Protective Vehicle
URBAN	1' Portable 7' Post	1 MI.	Flashing Arrow Panel (FAP)	Sign	Truck/Trailer Mounted Attenuator (TMA)
RURAL DIVIDED	1' Portable 7' Post	2 MI.			
RURAL UNDIVIDED	1' Portable 5' Post	3 MI.			
VEHICLE	48 Inches Recommended	-			



Page 2 of 3

9/2023



REVISIONS	NO.	DESCRIPTION	BY	DATE

TAP-1601(705)
SIDEWALKS

ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-3.3
TRAFFIC CONTROL
DETAILS

PROJECT NUMBER:
230012
DATE:
10/16/2025





REVISIONS	
NO.	DESCRIPTION

C-4.0
OVERALL SITE PLAN

TAP-1601(705)
SIDEWALKS

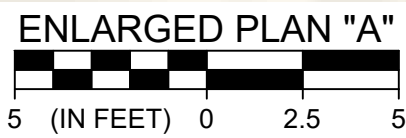
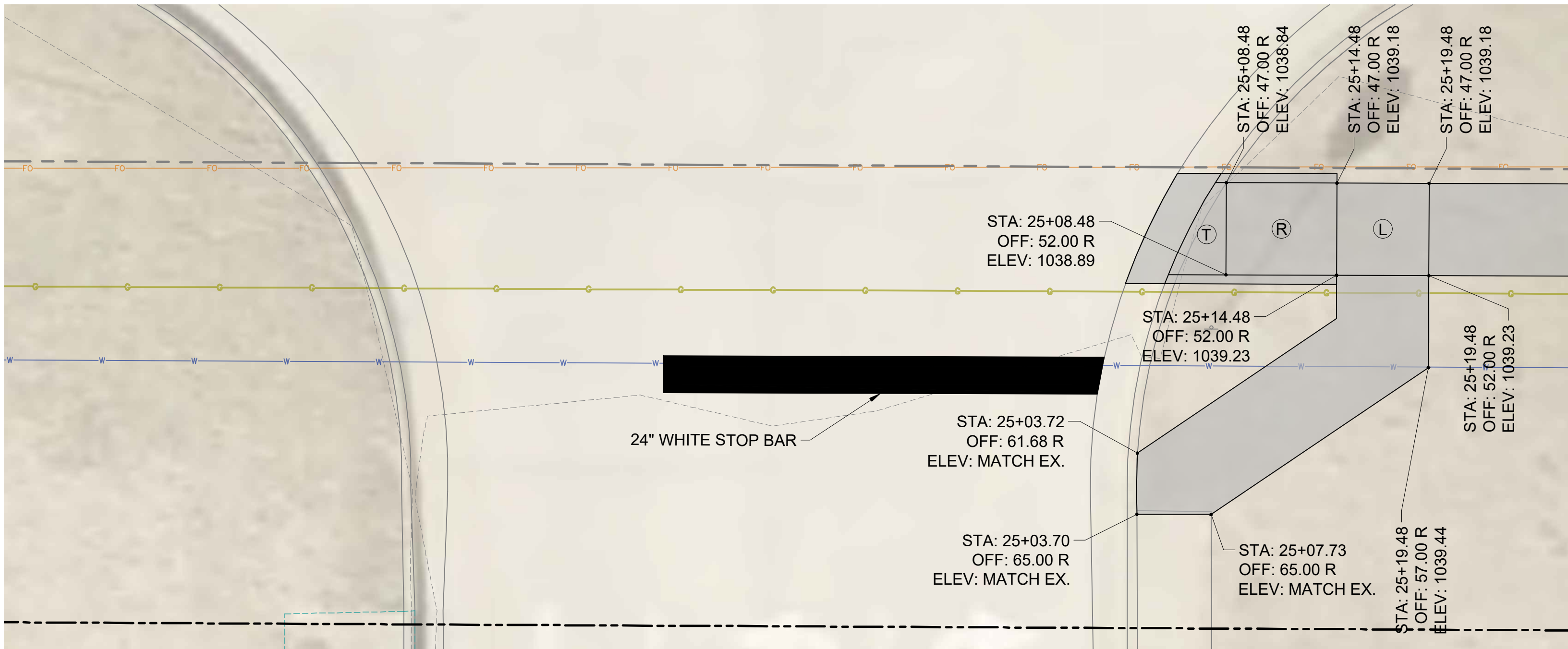
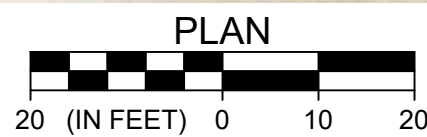
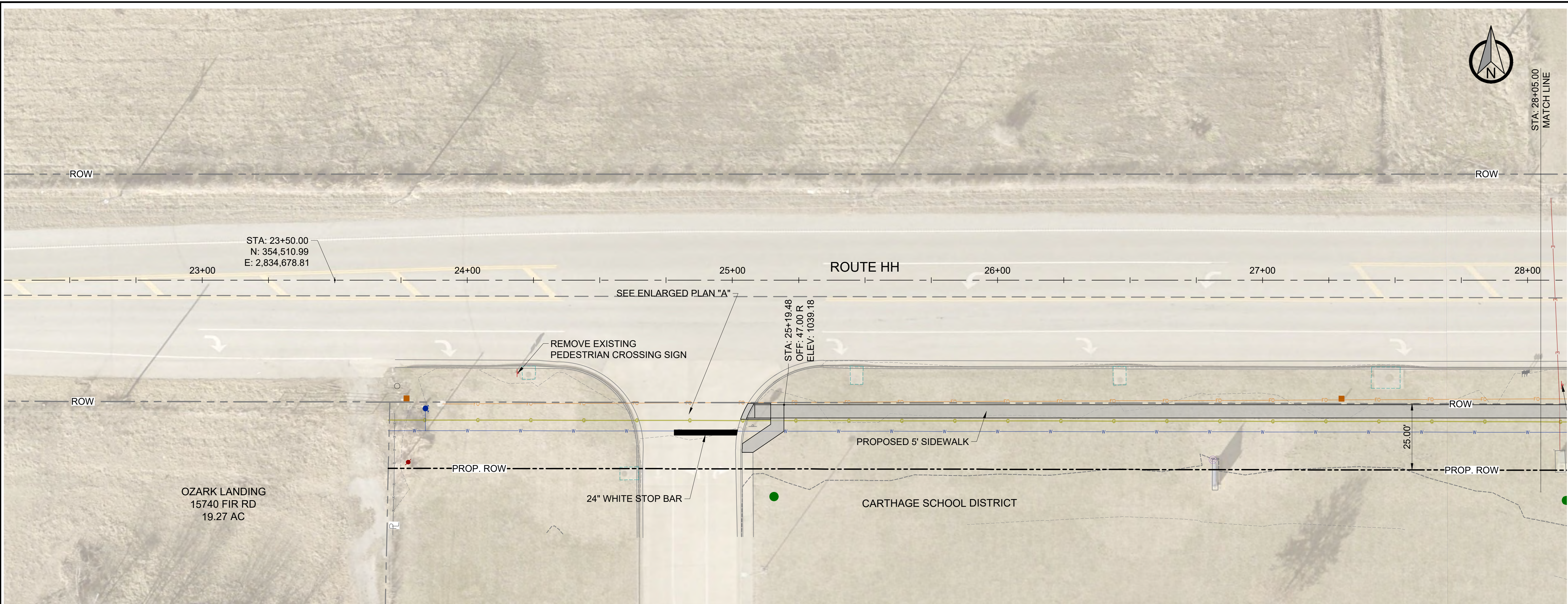
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

PROJECT NUMBER:
230012

DATE:
10/16/2025

ZANEVAN
ENGINEERING

PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836



- LEGEND**
- TRANSITION
 - RAMP
 - LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE



REVISIONS		NO.	DESCRIPTION	BY	DATE

C-4.1
PLAN

TAP-1601(705)
SIDEWALKS

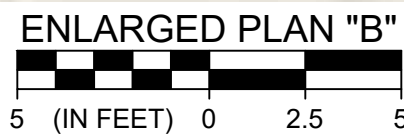
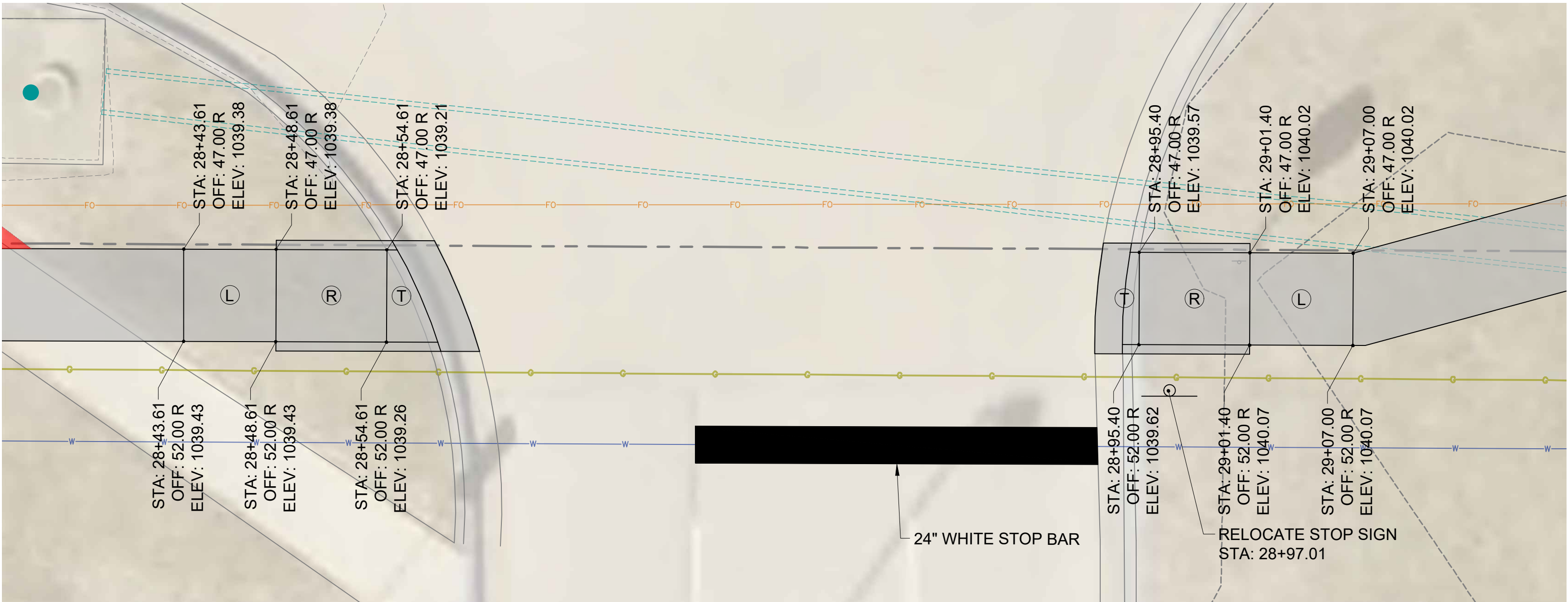
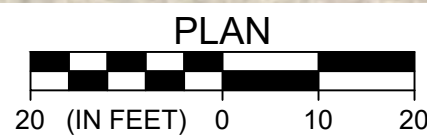
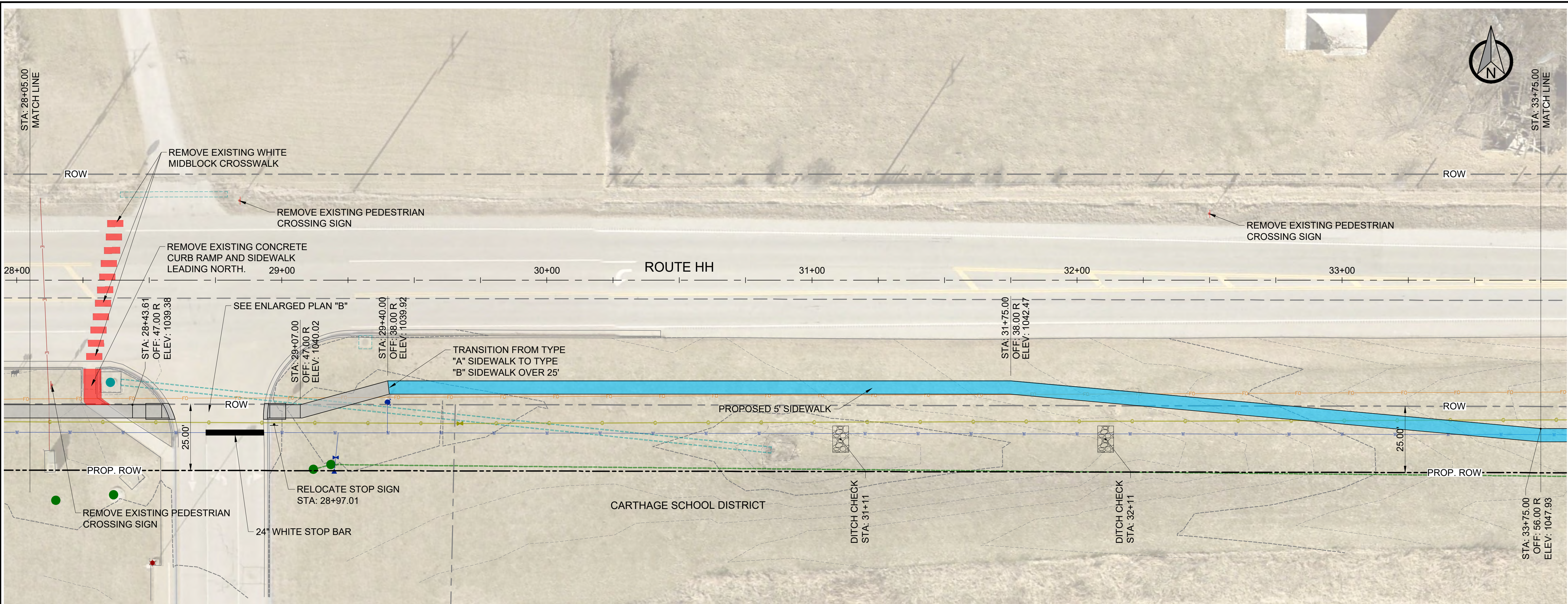
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

PROJECT NUMBER:
230012

DATE:
10/16/2025

ZANEVAN
ENGINEERING

PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836



- LEGEND**
- TRANSITION
 - RAMP
 - LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE

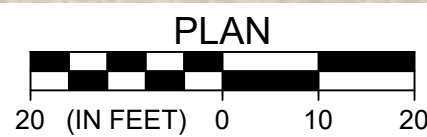
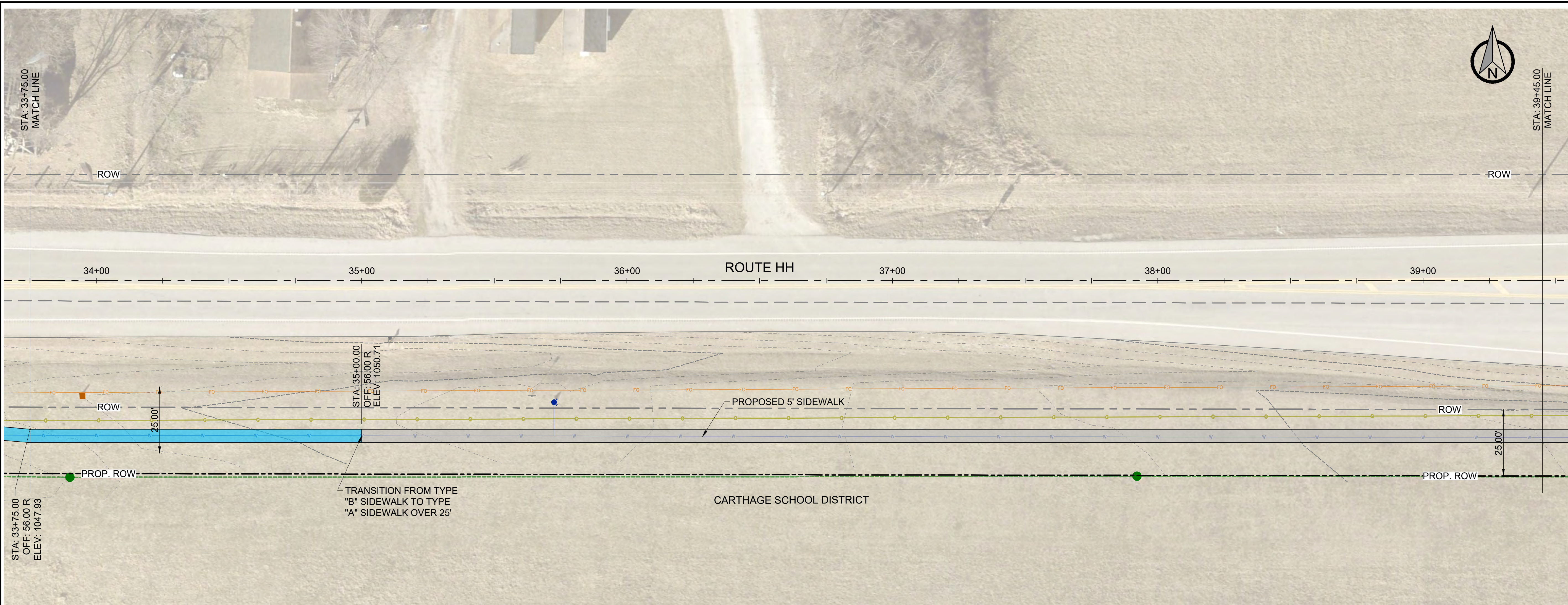


REVISIONS		NO.	DESCRIPTION	BY	DATE

TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-4.2
PLAN
PROJECT NUMBER:
230012
DATE:
10/16/2025





- LEGEND**
- ⊕ TRANSITION
 - Ⓜ RAMP
 - Ⓛ LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE



REVISIONS		
NO.	DESCRIPTION	DATE

C-4.3
PLAN

TAP-1601(705)
SIDEWALKS

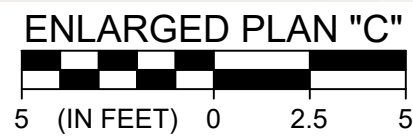
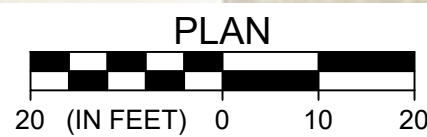
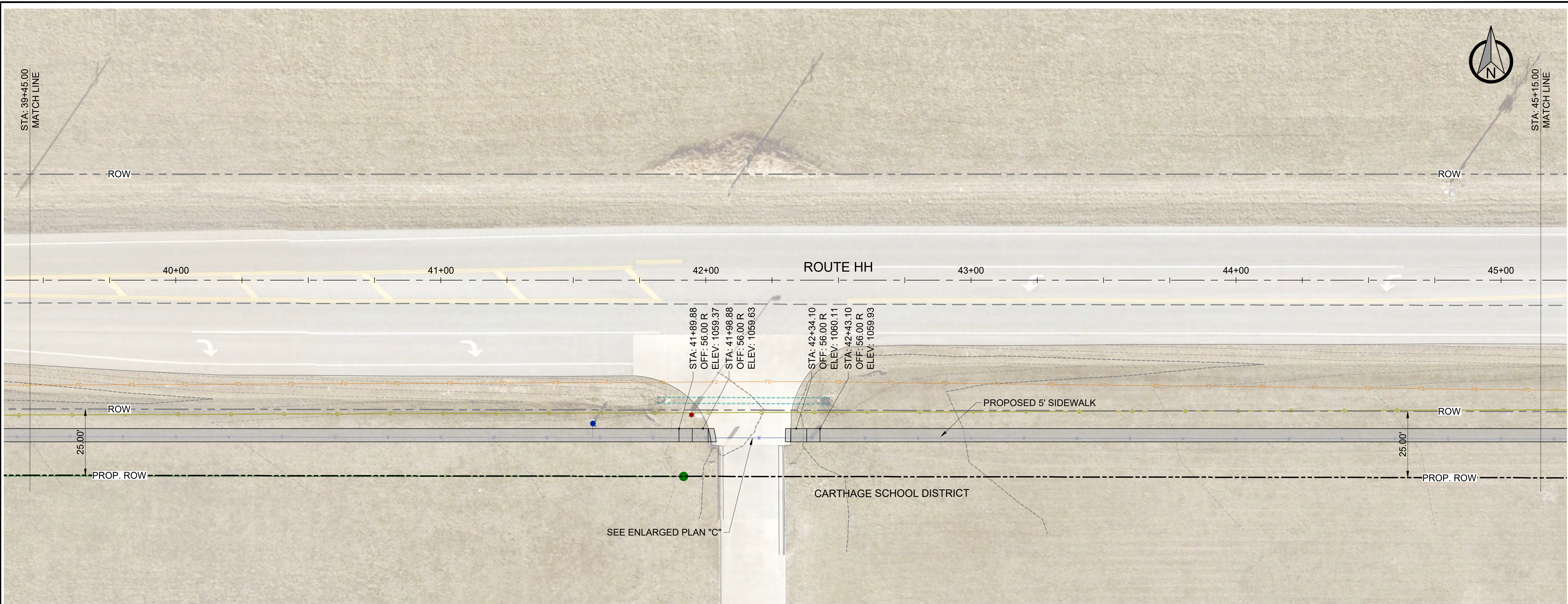
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

PROJECT NUMBER:
230012

DATE:
10/16/2025

ZANEVAN
ENGINEERING

PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836



- LEGEND**
- TRANSITION
 - RAMP
 - LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE



REVISIONS		NO.	DESCRIPTION	BY	DATE

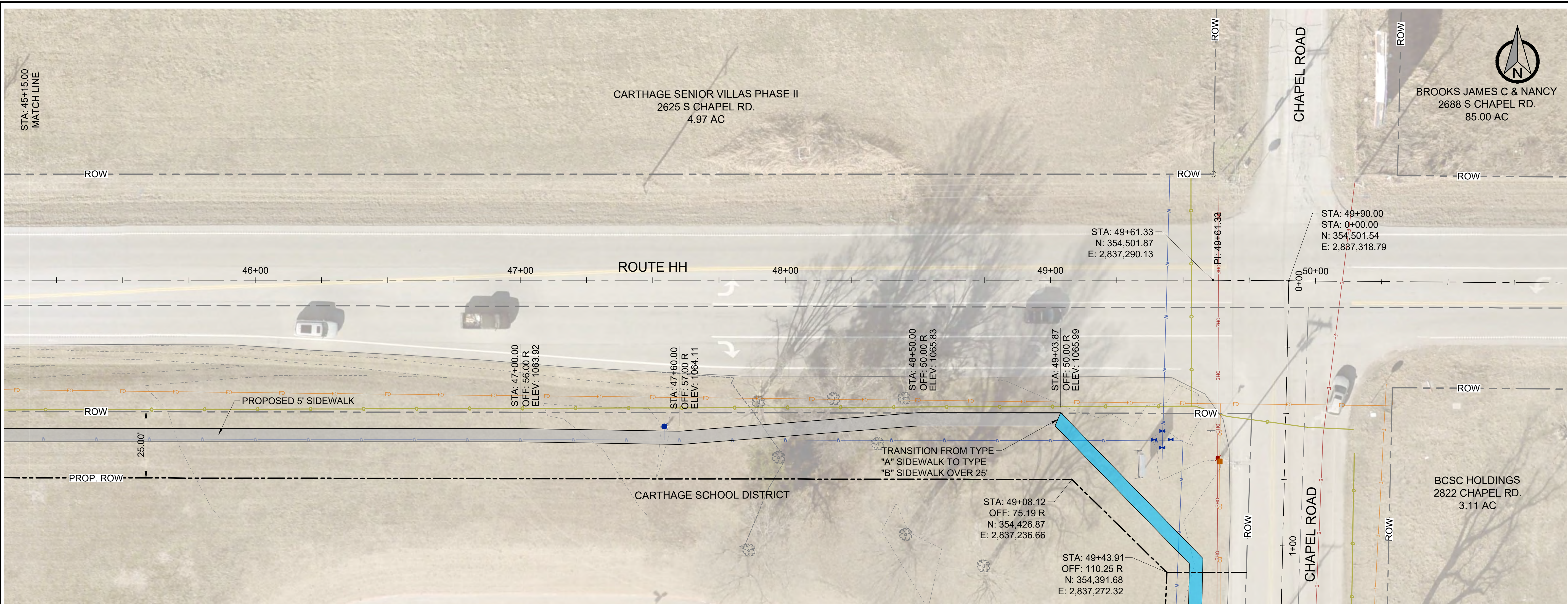
TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-4.4
PLAN

PROJECT NUMBER:
230072

DATE:
10/16/2025

PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836



- LEGEND**
- TRANSITION
 - RAMP
 - LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE



PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836

C-4.5
PLAN

PROJECT NUMBER:
230012
DATE:
10/16/2025

TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

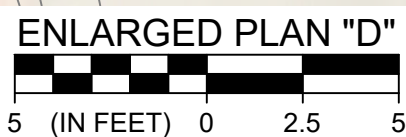
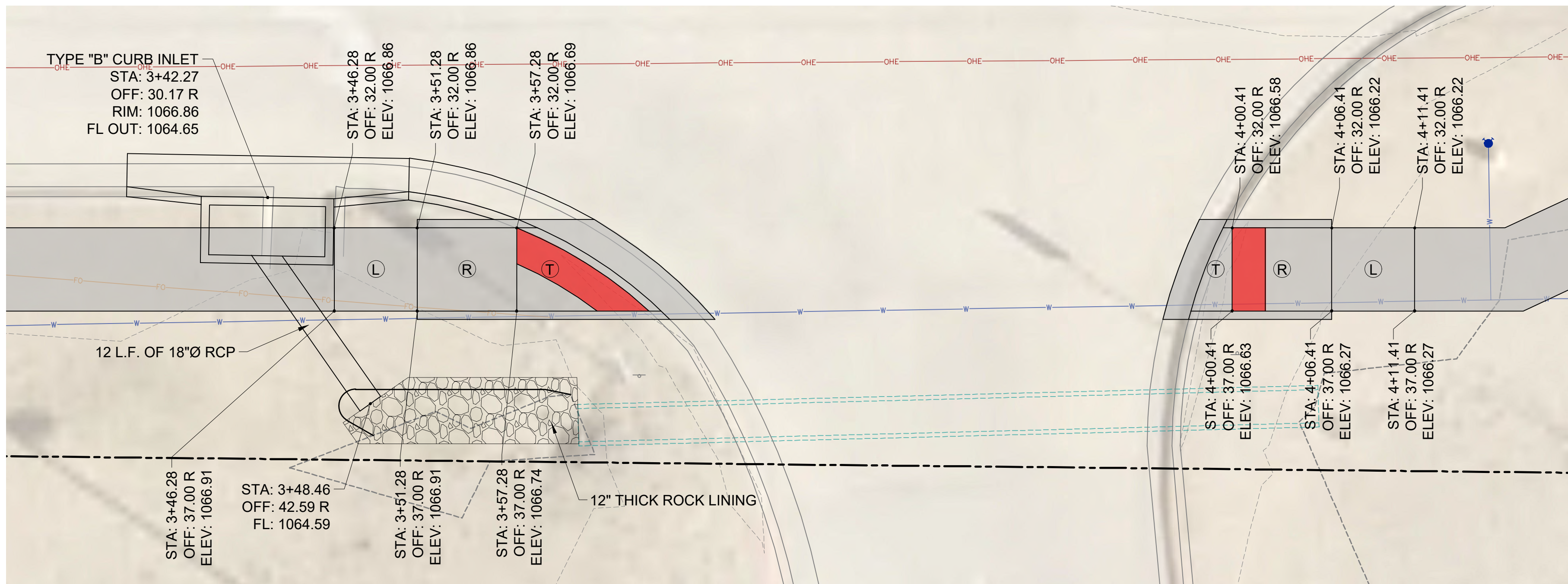
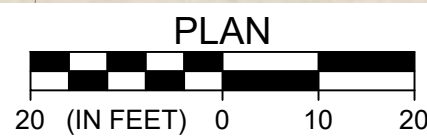
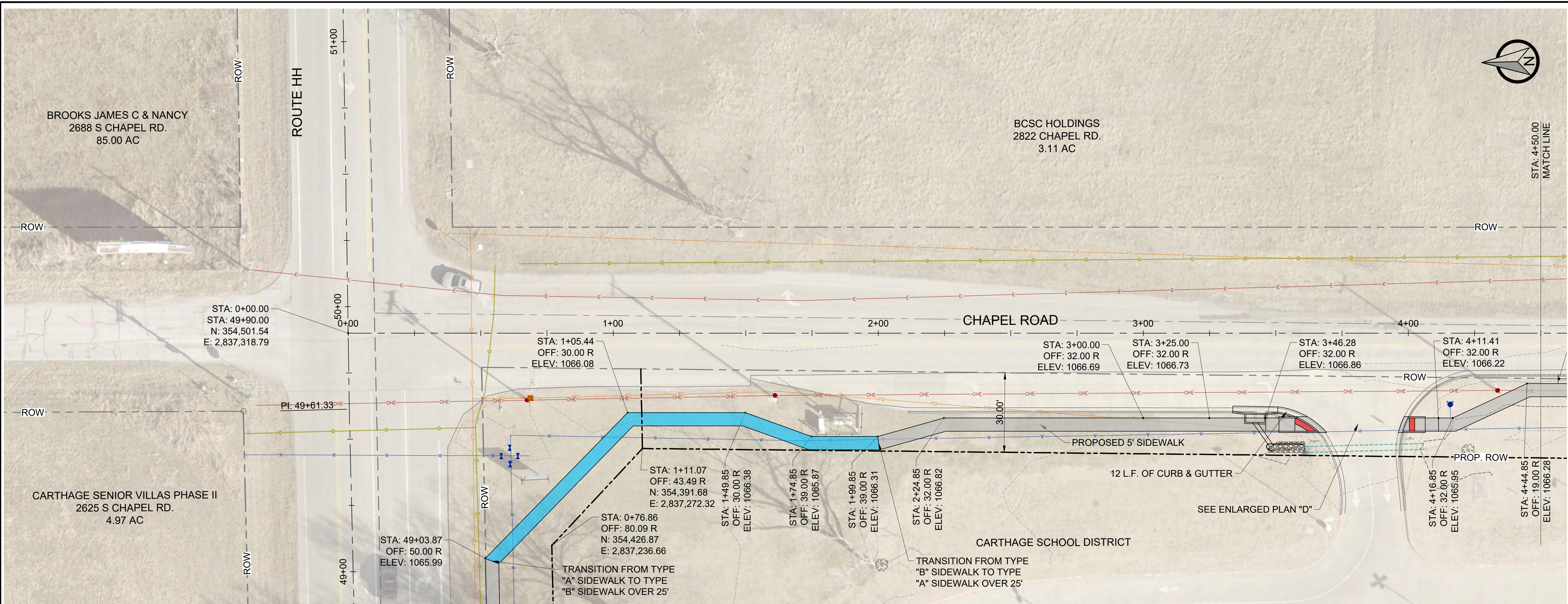
REVISIONS

NO.	DESCRIPTION	BY	DATE

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOSHUA JASON ECKHART
NUMBER JE-30102
DATE 10/16/25

BROOKS JAMES C & NANCY
2688 S CHAPEL RD.
85.00 AC

BCSC HOLDINGS
2822 CHAPEL RD.
3.11 AC



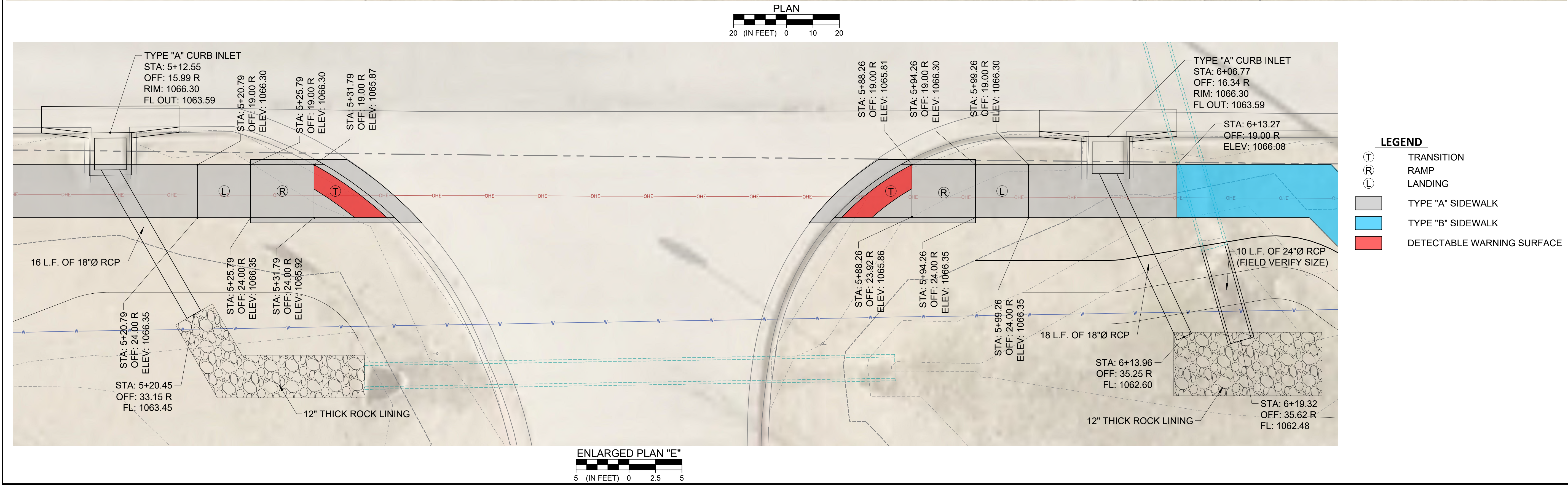
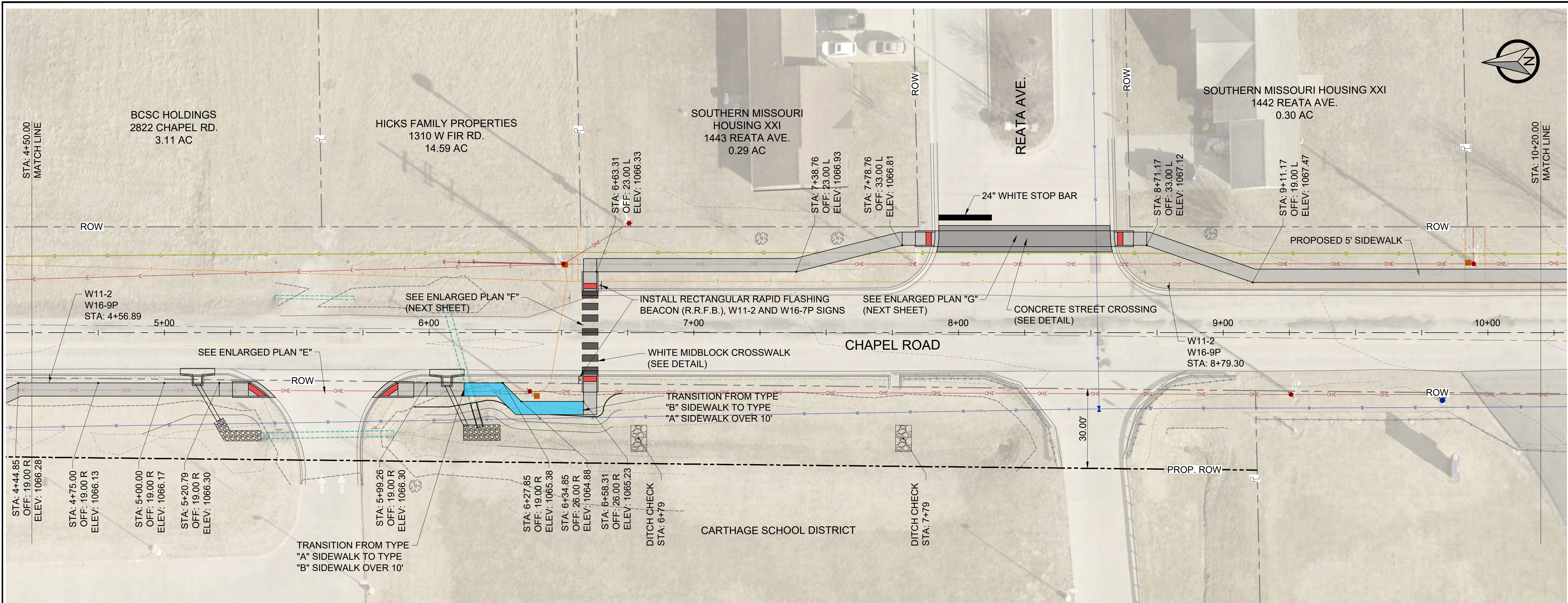
REVISIONS		NO.	DESCRIPTION	BY	DATE

TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-4.6
PLAN

PROJECT NUMBER:
230012
DATE:
10/16/2025





NO.	DESCRIPTION	BY	DATE

C-4.7
PLAN

TAP-1601(705)
SIDEWALKS

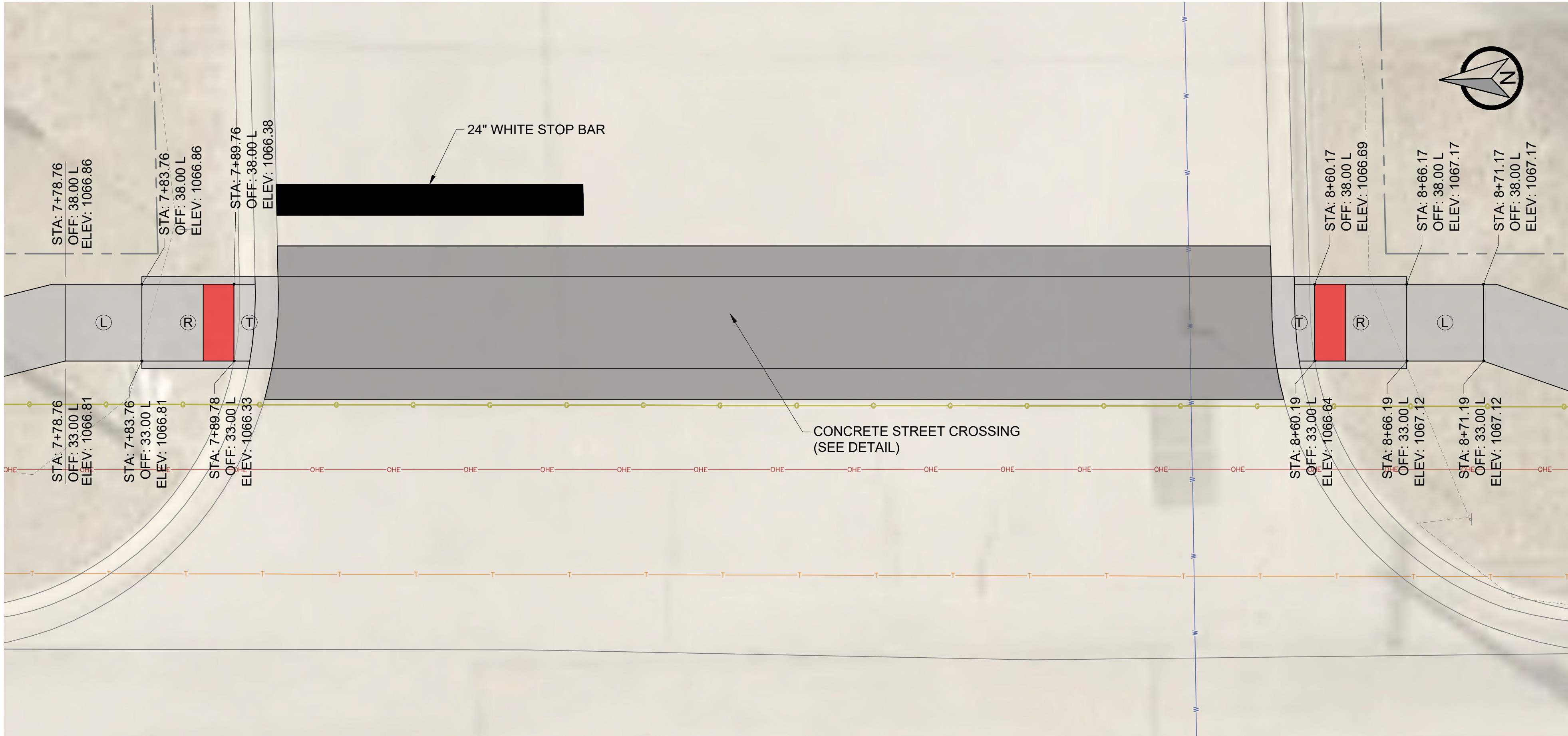
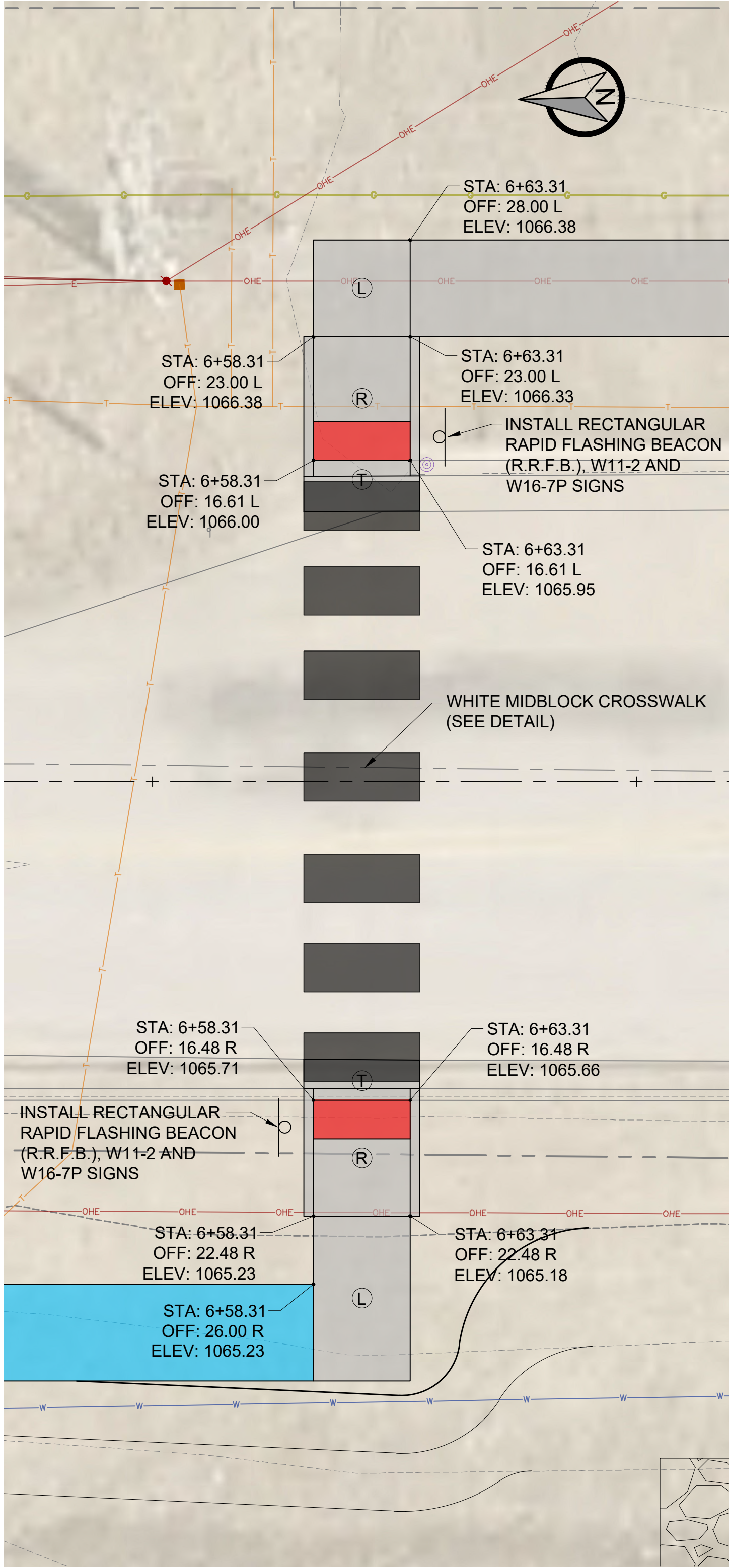
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

ZANEVAN
ENGINEERING

PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836

PROJECT NUMBER:
230012

DATE:
10/16/2025



- LEGEND**
- Ⓣ TRANSITION
 - Ⓡ RAMP
 - Ⓛ LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE

C-4.8
PLAN

TAP-1601(705)
SIDEWALKS

PROJECT NUMBER:
230012
DATE:
10/16/2025



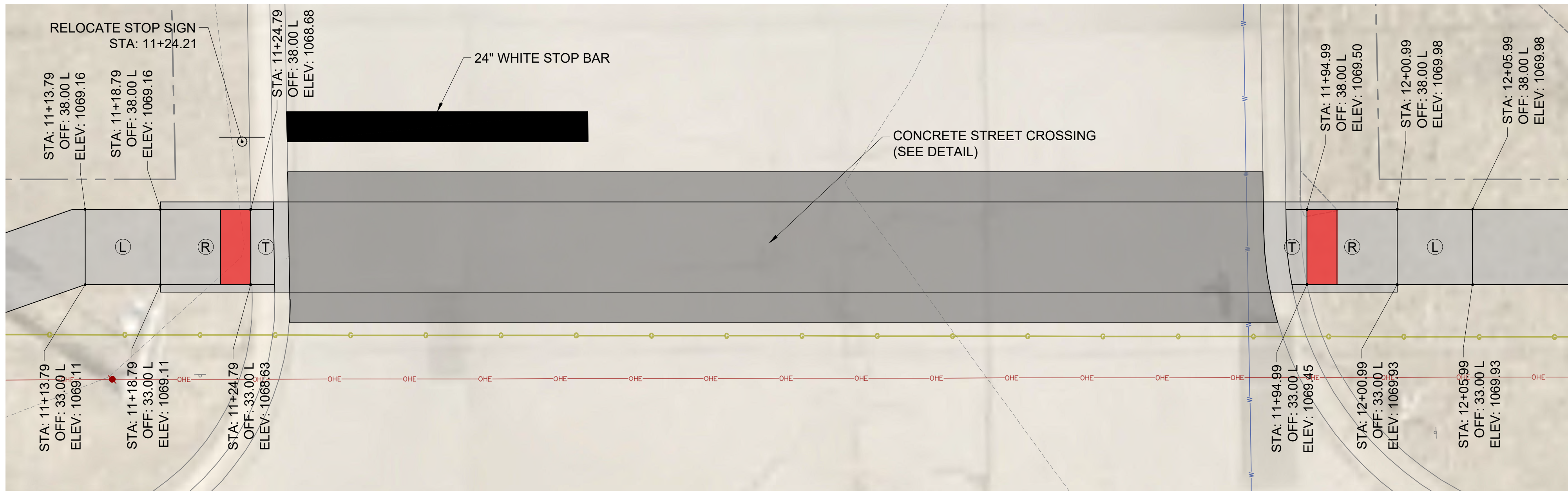
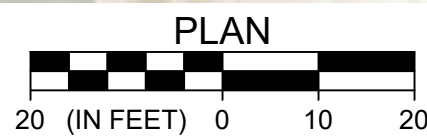
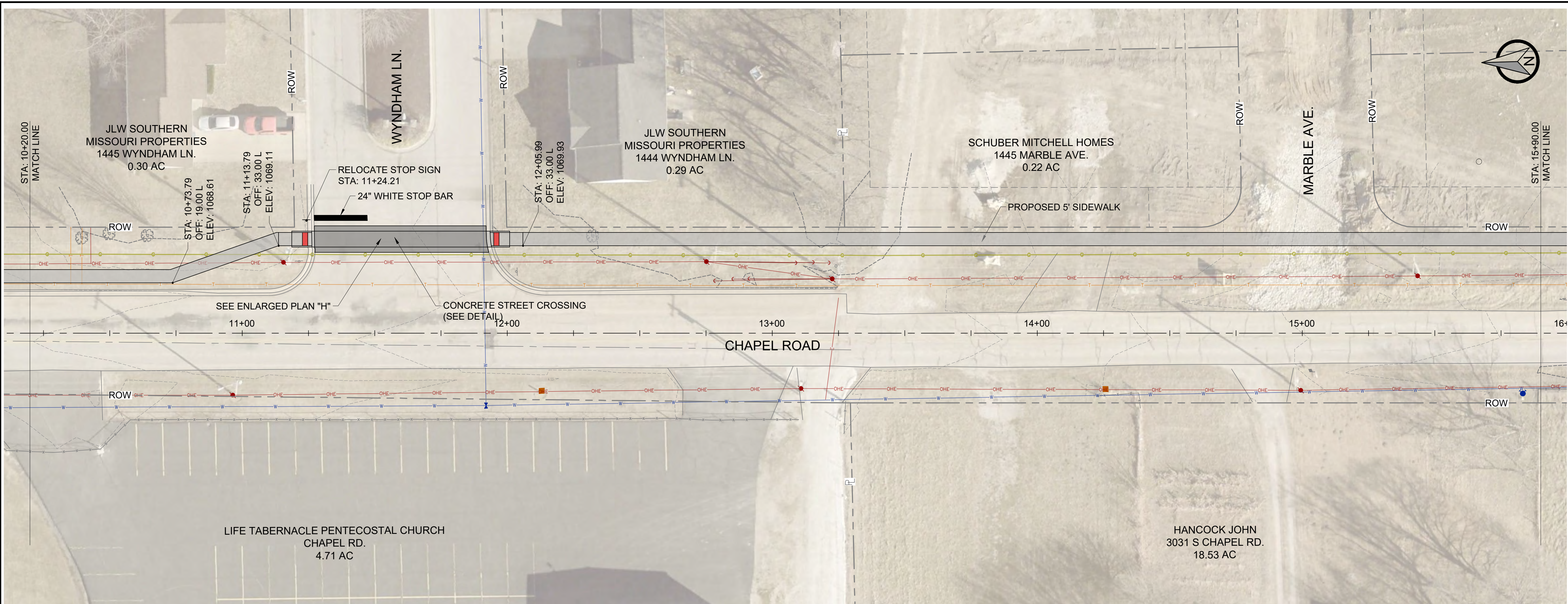
PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836

ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

REVISIONS

NO.	DESCRIPTION	BY	DATE





- LEGEND**
- TRANSITION
 - RAMP
 - LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE



REVISIONS		NO.	DESCRIPTION	BY	DATE

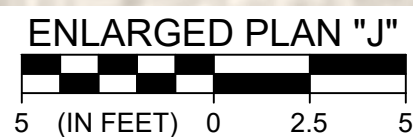
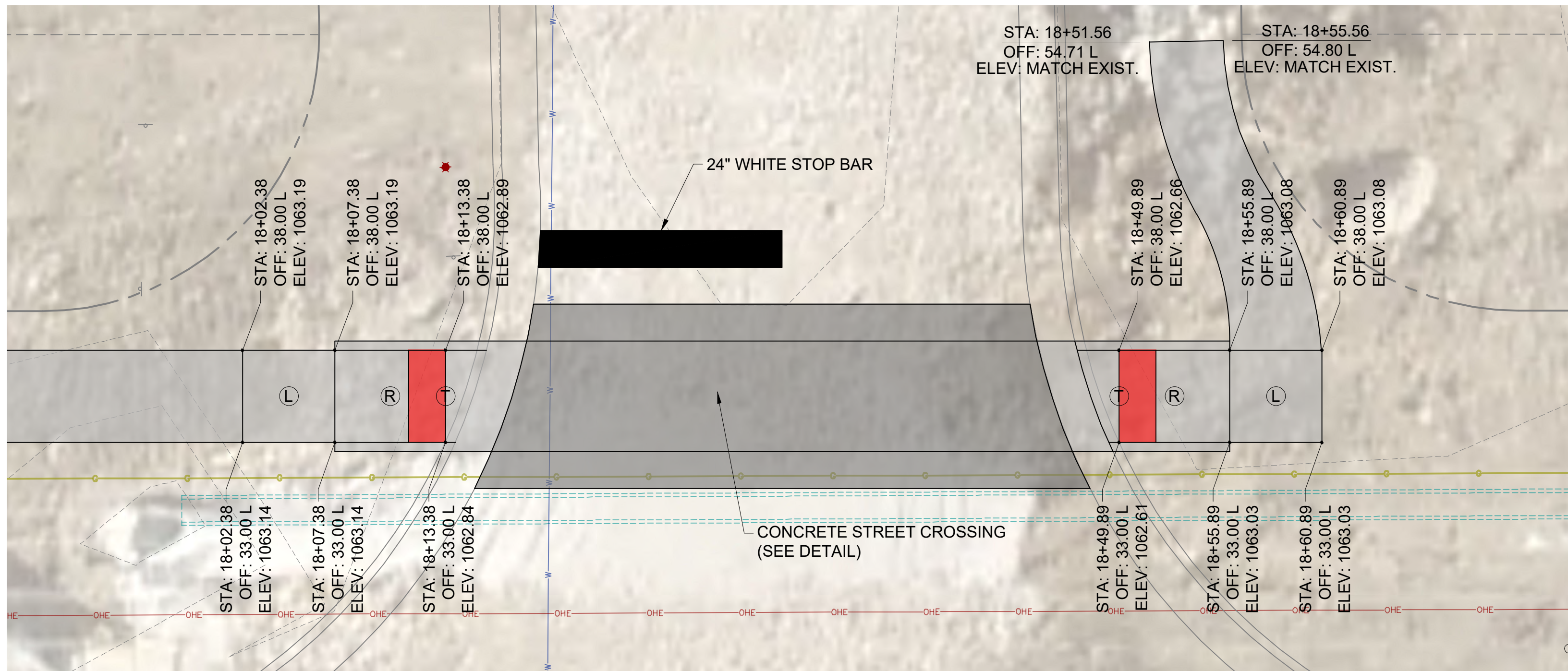
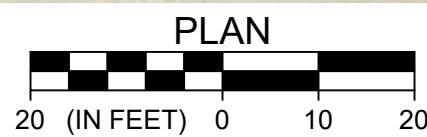
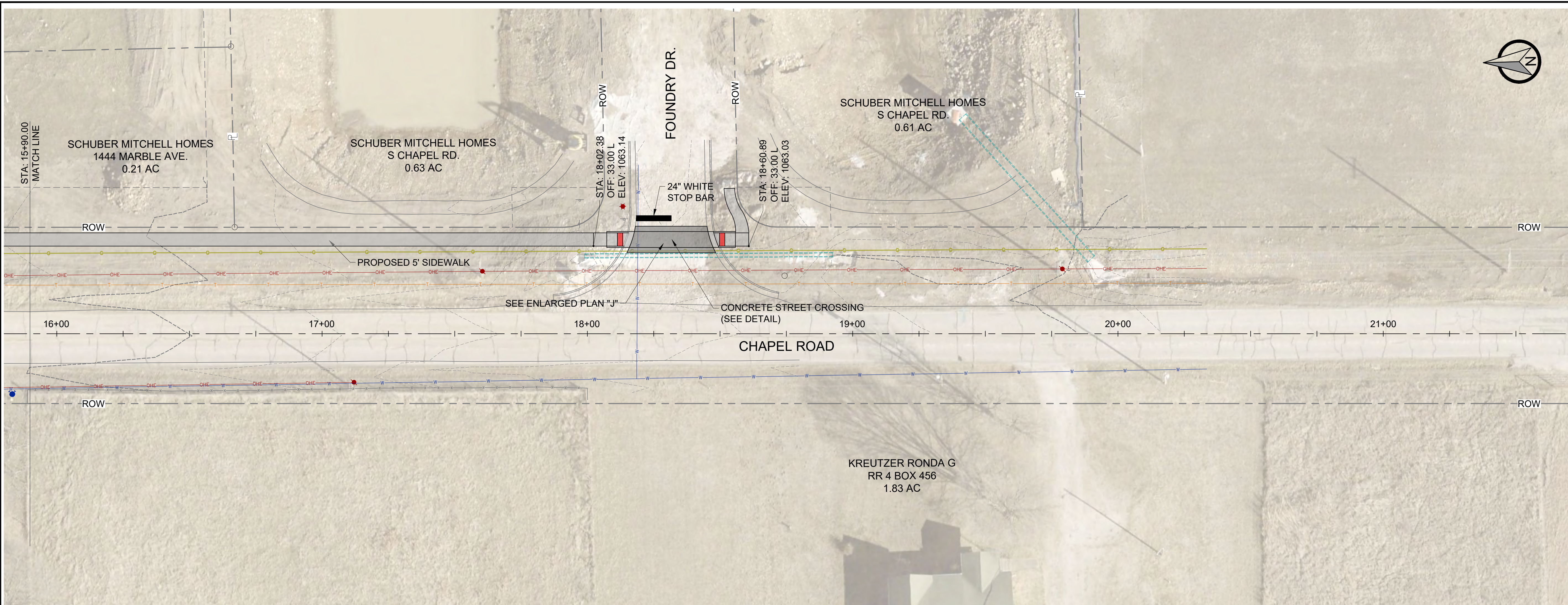
TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-4.9
PLAN

PROJECT NUMBER:
230012
DATE:
10/16/2025



PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836



- LEGEND**
- ⊕ TRANSITION
 - Ⓜ RAMP
 - Ⓛ LANDING
 - TYPE "A" SIDEWALK
 - TYPE "B" SIDEWALK
 - DETECTABLE WARNING SURFACE



REVISIONS		NO.	DESCRIPTION	BY	DATE

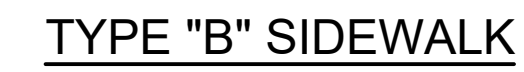
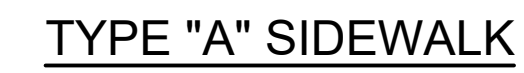
C-4.10
PLAN

TAP-1601(705)
SIDEWALKS

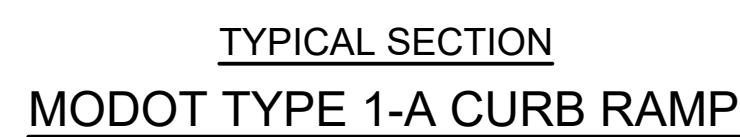
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

PROJECT NUMBER:
230012
DATE:
10/16/2025

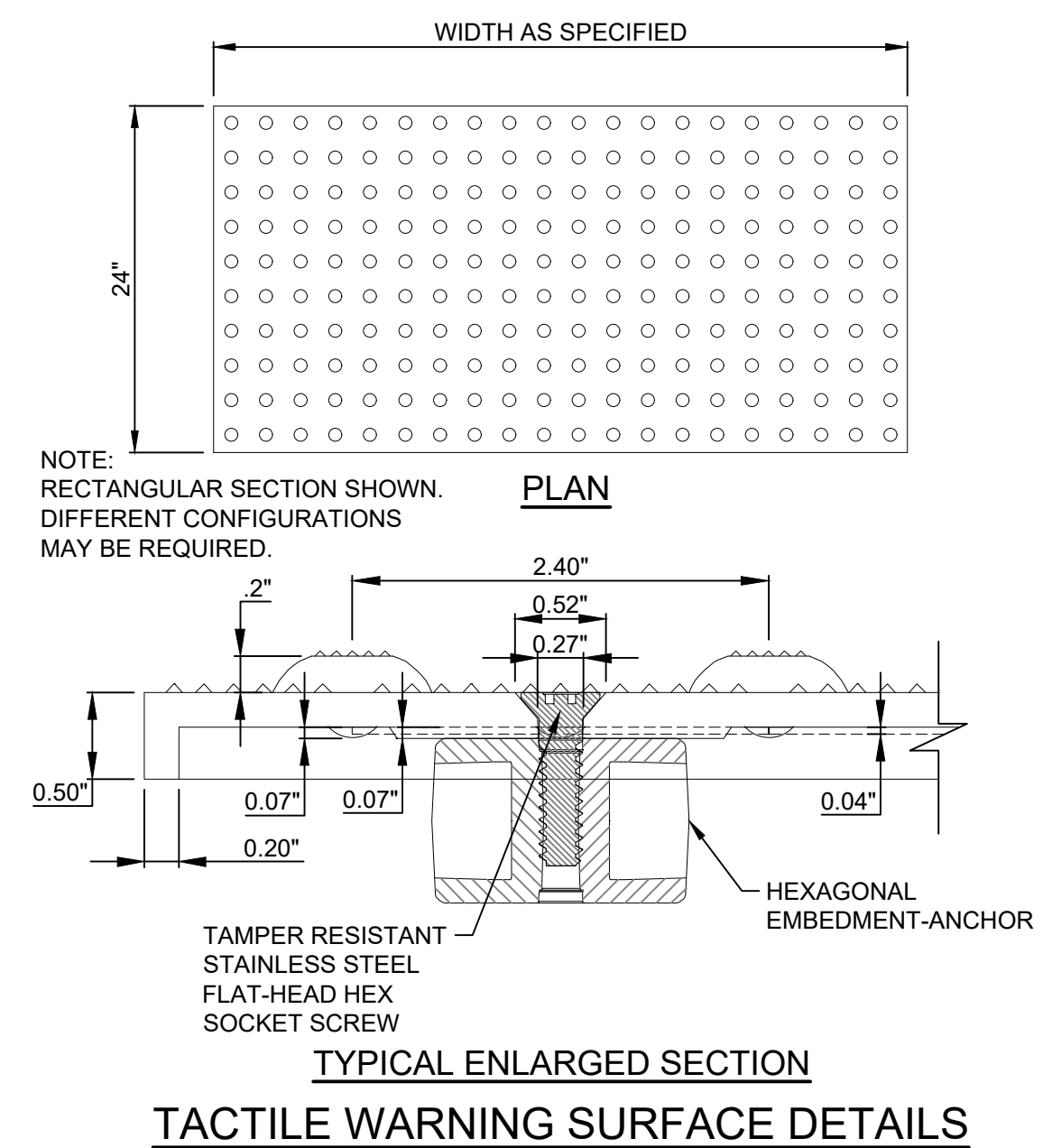
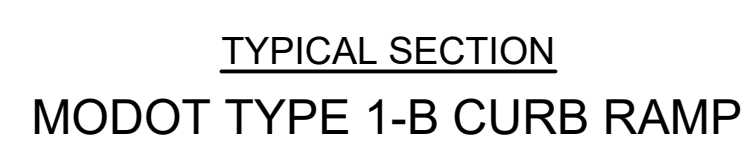




- ### PLAN



- ## PLAN

[illegible]

TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

C-5.0

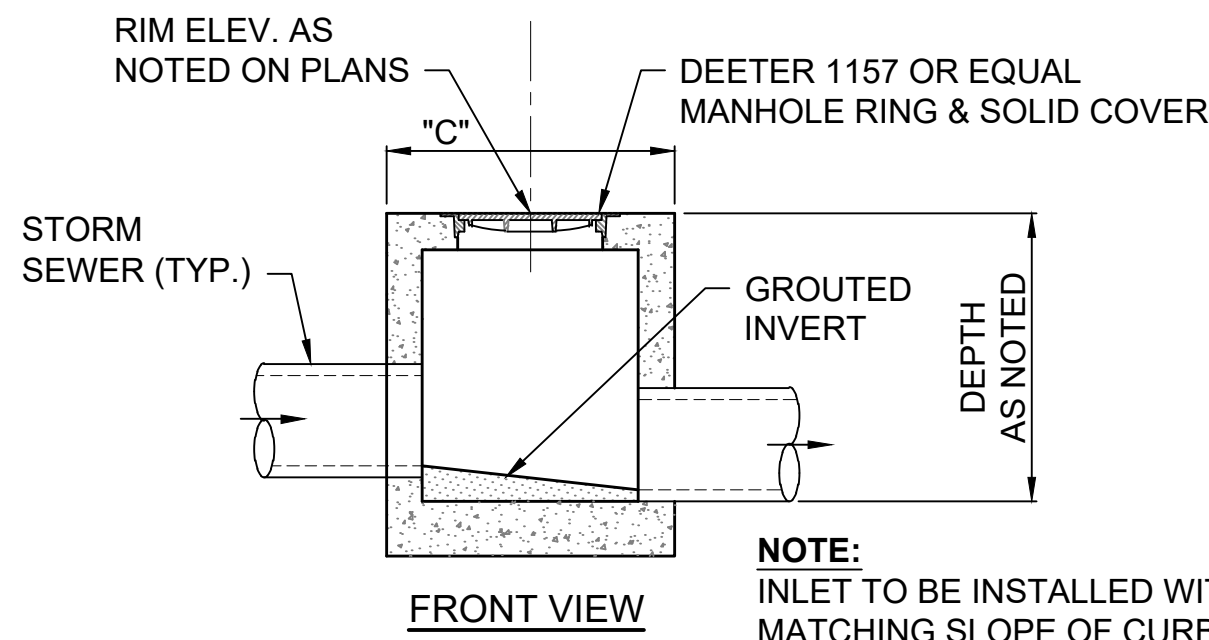
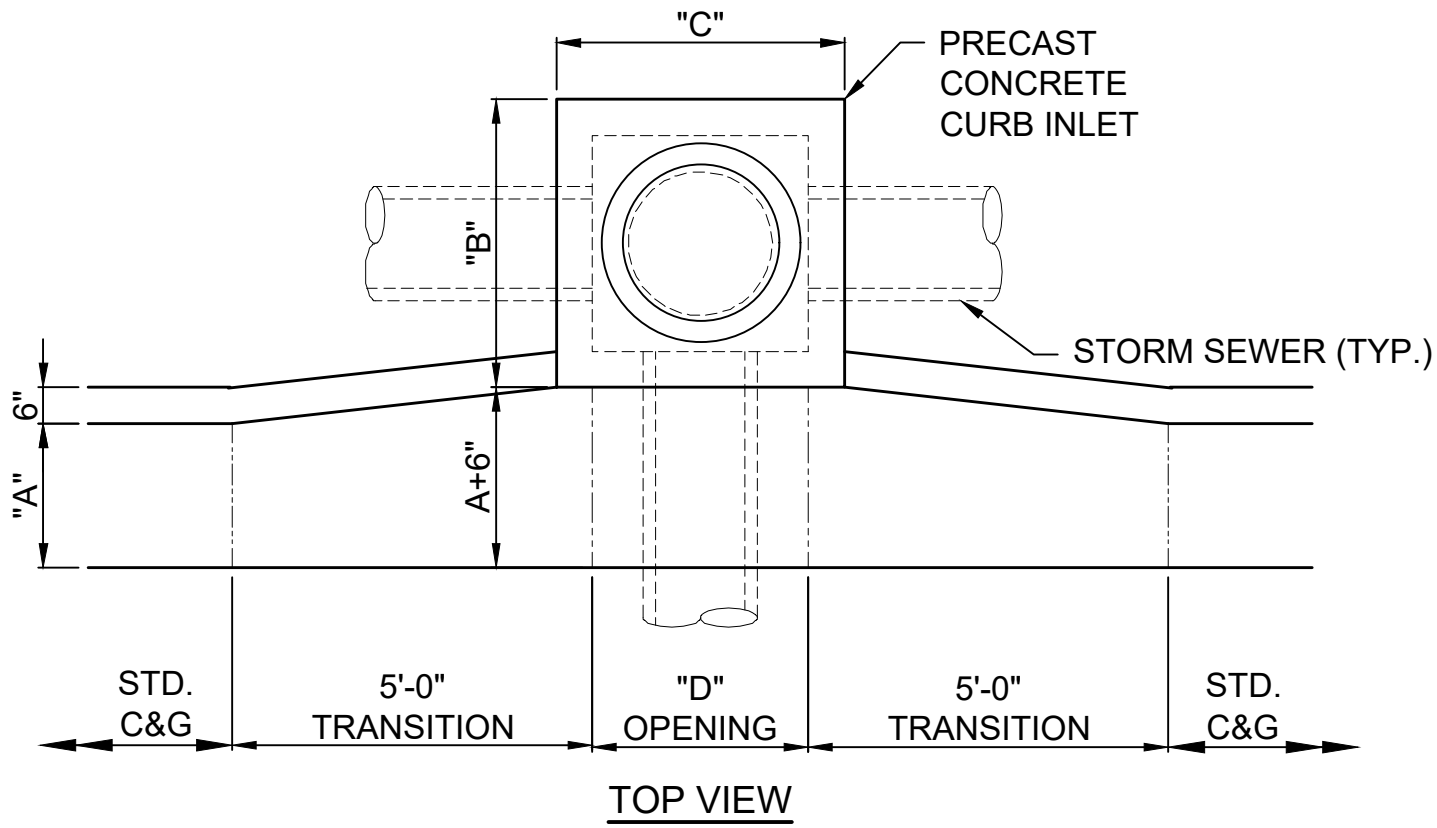
DETAILS

PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836

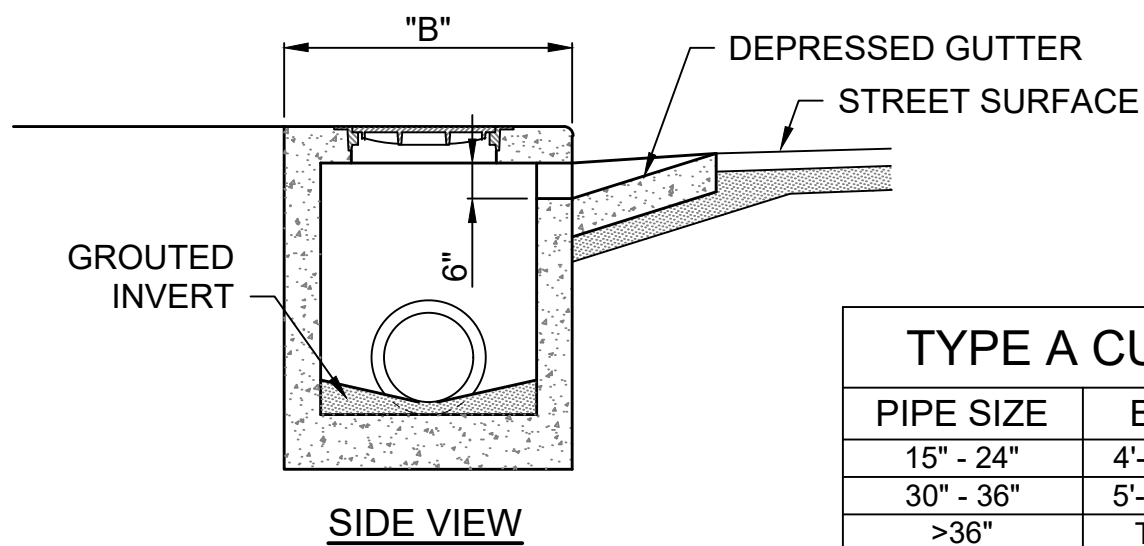
PROJECT NUMBER:
230012
DATE:
10/16/2025

NOTES:
"A" = 2'-0" OR 2'-6" (PER APPROVED DESIGN)

SEE STORM SEWER PLAN & PROFILE DRAWINGS, FOR SIZE AND DIRECTION OF STORM SEWER PIPES.



NOTE:
INLET TO BE INSTALLED WITH TOP MATCHING SLOPE OF CURB

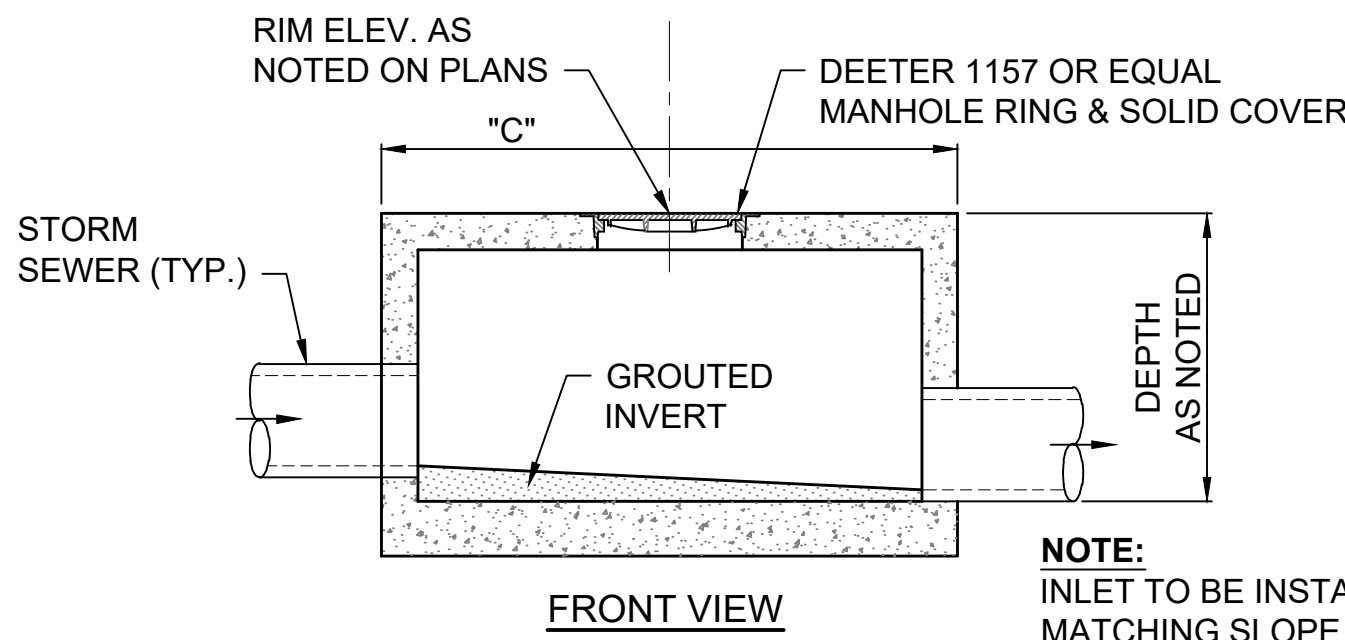
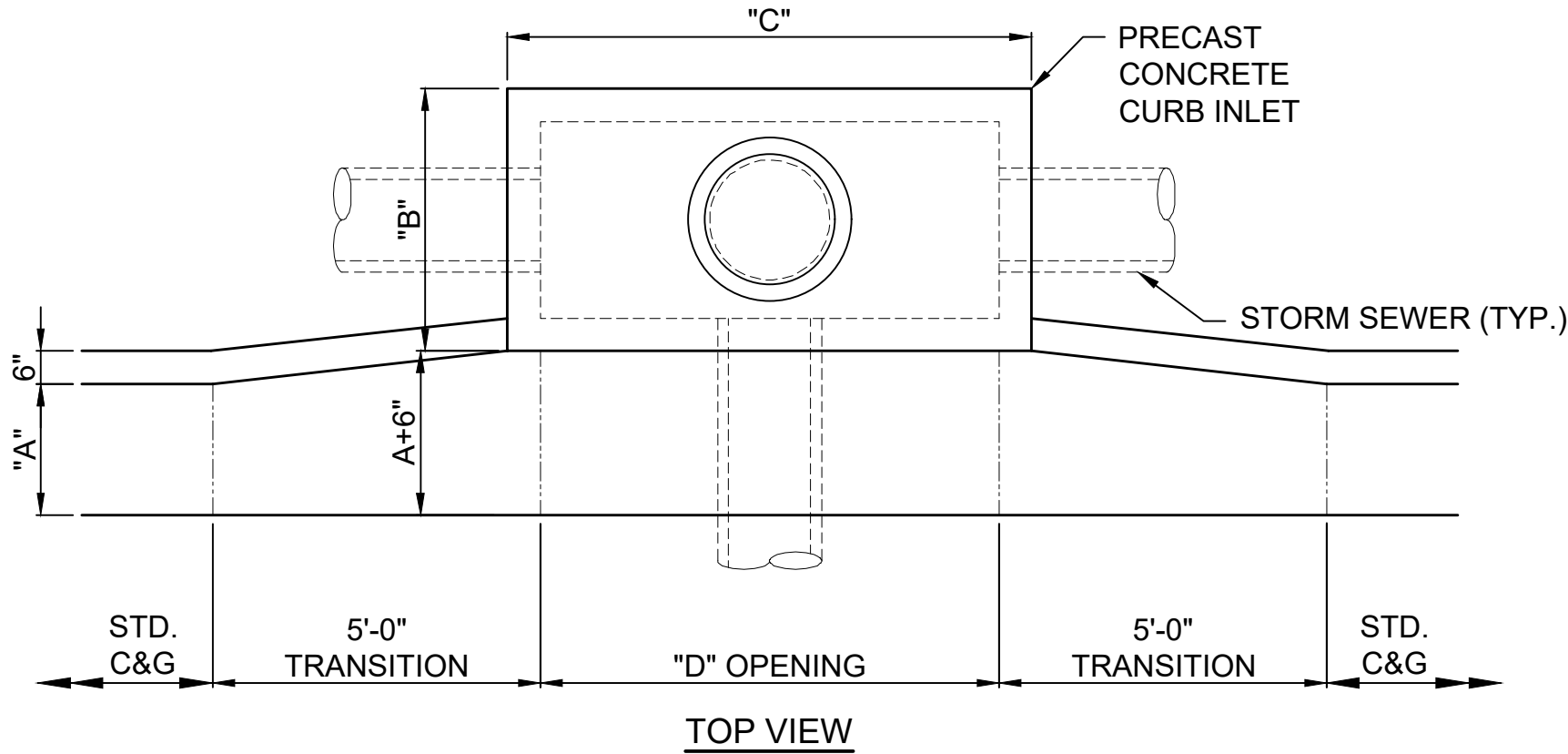


TYPE "A" CURB INLET

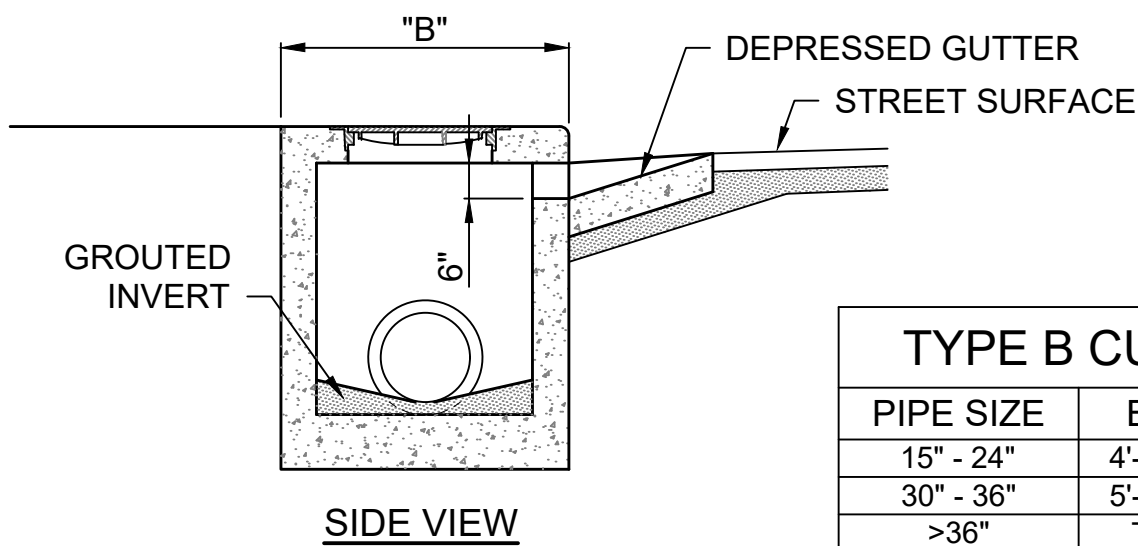
PIPE SIZE	B	C	D
15" - 24"	4'-0"	4'-0"	3'-0"
30" - 36"	5'-0"	5'-0"	4'-0"
>36"	TO BE DESIGNED		

NOTES:
"A" = 2'-0" OR 2'-6" (PER APPROVED DESIGN)

SEE STORM SEWER PLAN & PROFILE DRAWINGS, FOR SIZE AND DIRECTION OF STORM SEWER PIPES.

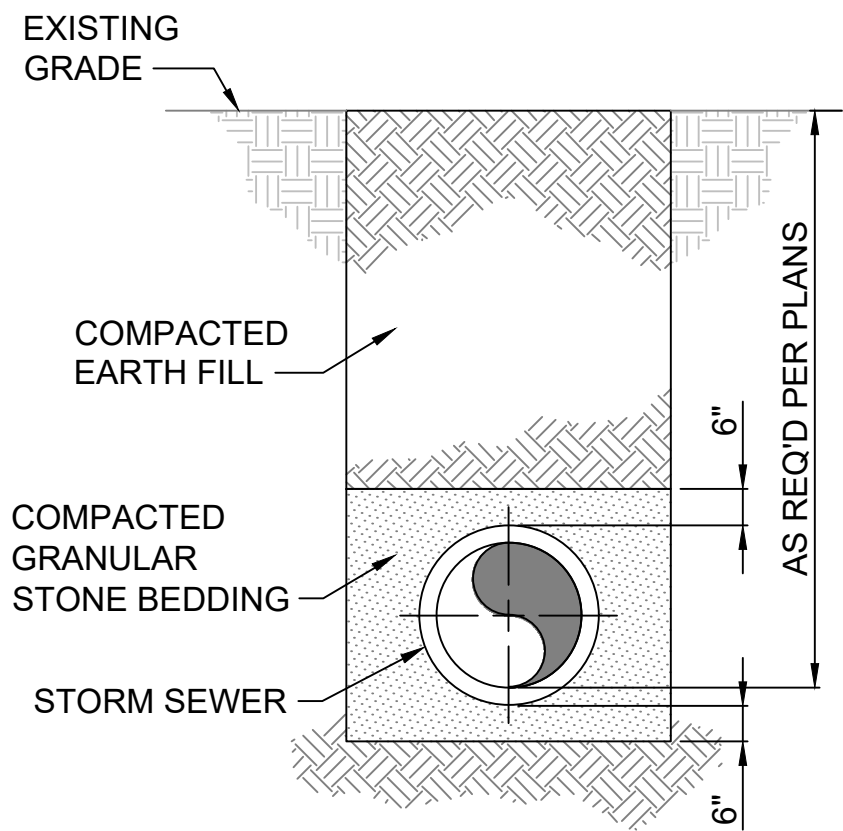


NOTE:
INLET TO BE INSTALLED WITH TOP MATCHING SLOPE OF CURB



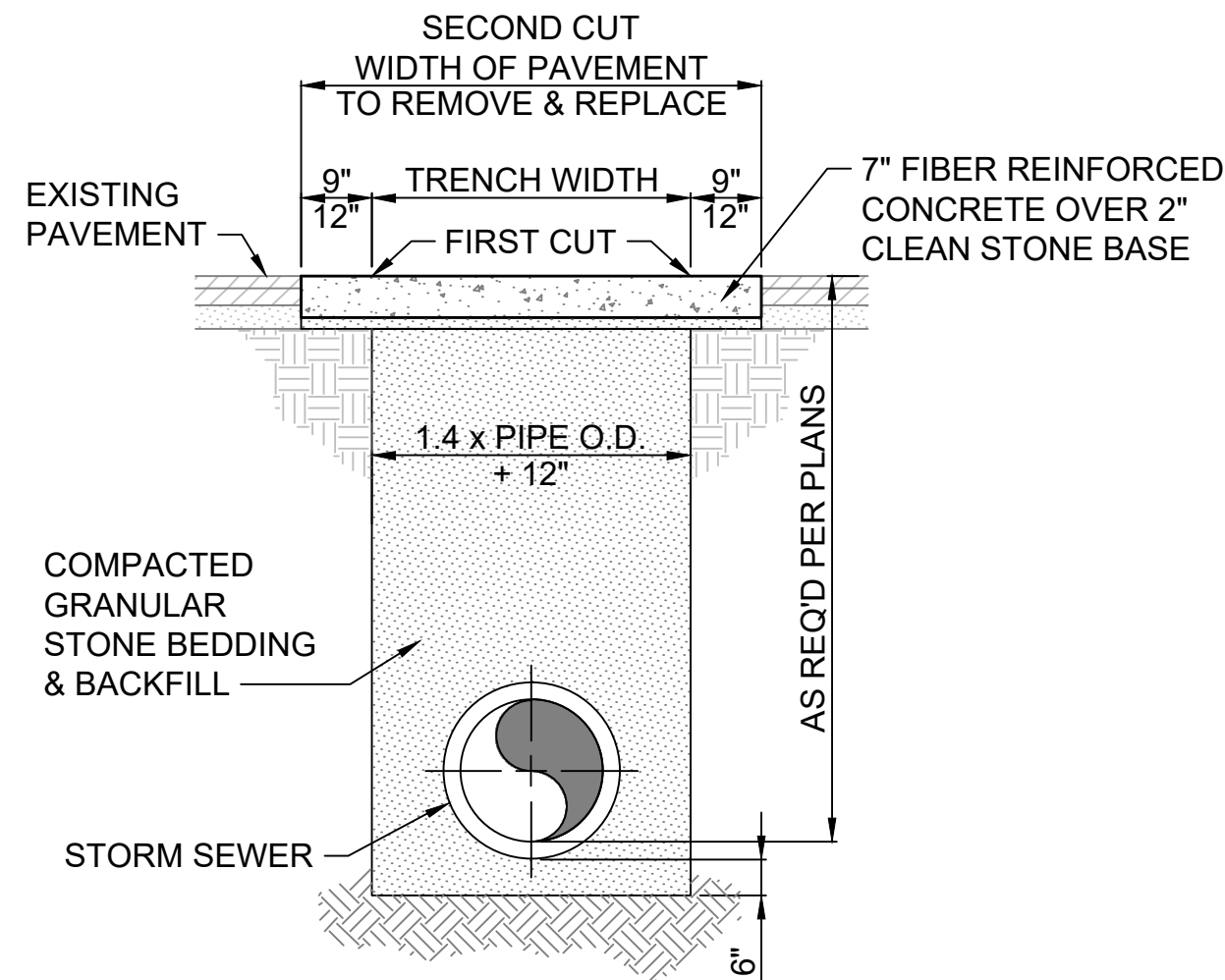
TYPE "B" CURB INLET

PIPE SIZE	B	C	D
15" - 24"	4'-0"	8'-0"	7'-0"
30" - 36"	5'-0"	8'-0"	7'-0"
>36"	TO BE DESIGNED		



NOTES:
TRENCH SHALL BE EXCAVATED TO PROVIDE VERTICAL WALLS.
TRENCH SHALL BE EXCAVATED TO A DEPTH OF 6" BELOW BOTTOM OF PIPE, BEDDED IN CRUSHED STONE CONFORMING TO THE SPECIFIED GRADATION TO PROVIDE UNIFORM BEDDING FOR THE ENTIRE LENGTH OF THE PIPE, AND BACKFILLED FULL TRENCH DEPTH WITH COMPACTED EARTH.

TRENCH & BEDDING DETAIL



NOTES:
TRENCH SHALL BE EXCAVATED TO PROVIDE VERTICAL WALLS.
TRENCH SHALL BE EXCAVATED TO A DEPTH OF 6" BELOW BOTTOM OF PIPE AND BACKFILLED FULL TRENCH DEPTH WITH CRUSHED STONE CONFORMING TO THE SPECIFIED GRADATION TO PROVIDE UNIFORM BEDDING FOR THE ENTIRE LENGTH OF THE PIPE.

TRENCH & BEDDING DETAIL FOR PAVEMENT REPLACEMENT



REVISIONS	NO.	DESCRIPTION	BY	DATE

TAP-1601(705)
SIDEWALKS
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

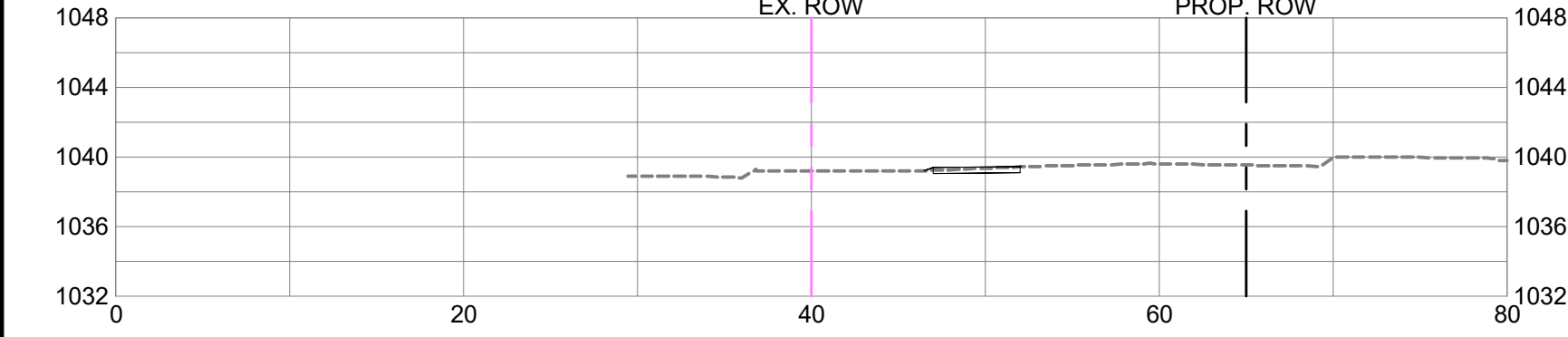
C-5.1
DETAILS

PROJECT NUMBER:
230012
DATE:
10/16/2025

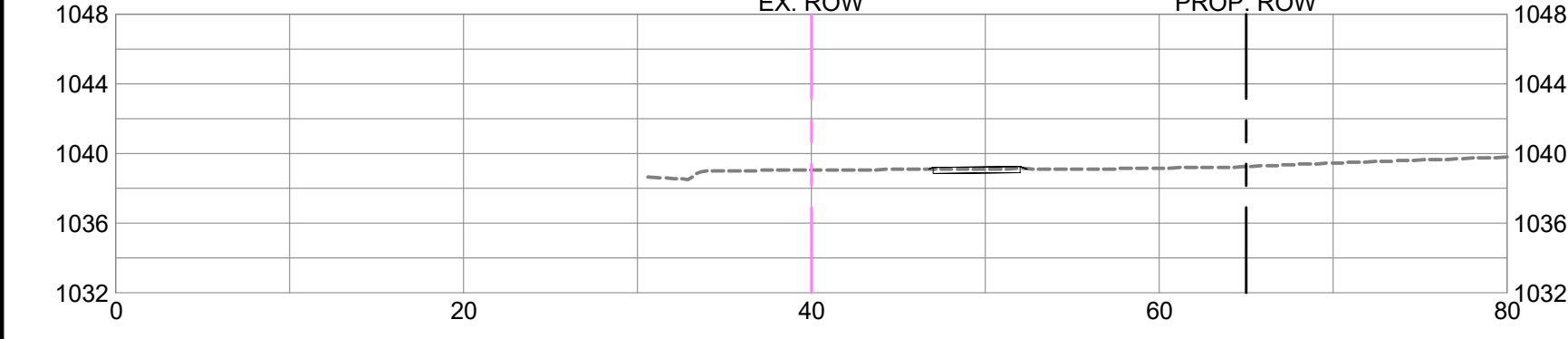


PHONE: 417-800-2500
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CARTHAGE, MO 64836

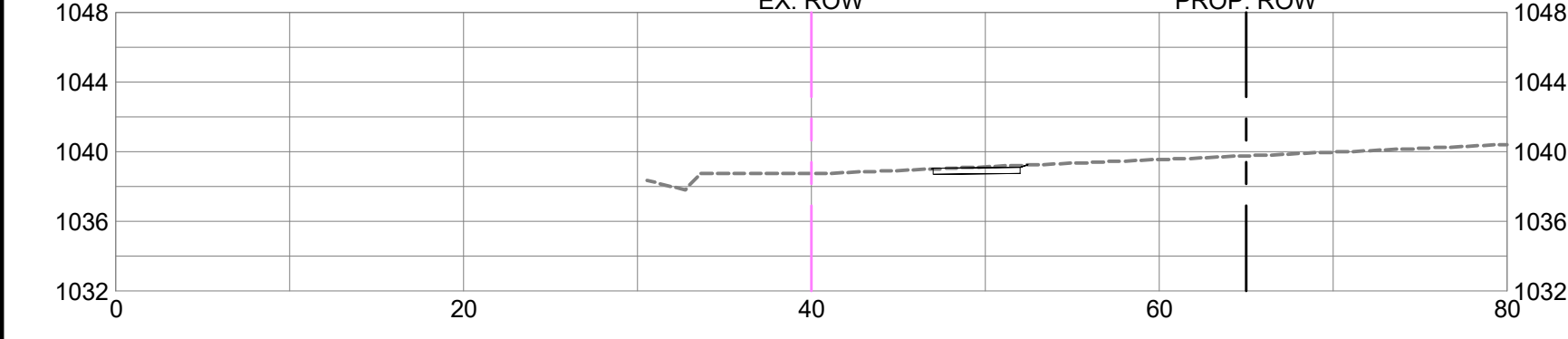
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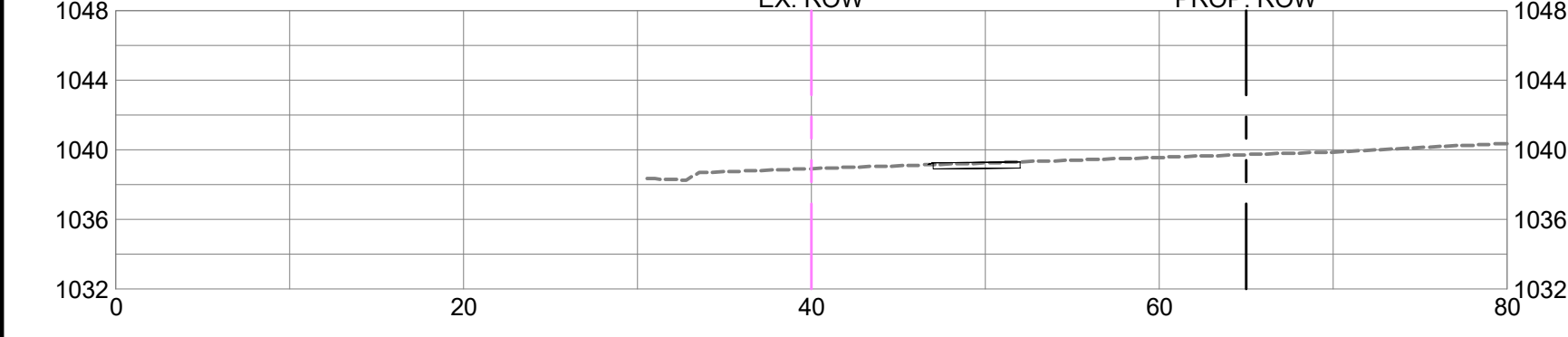
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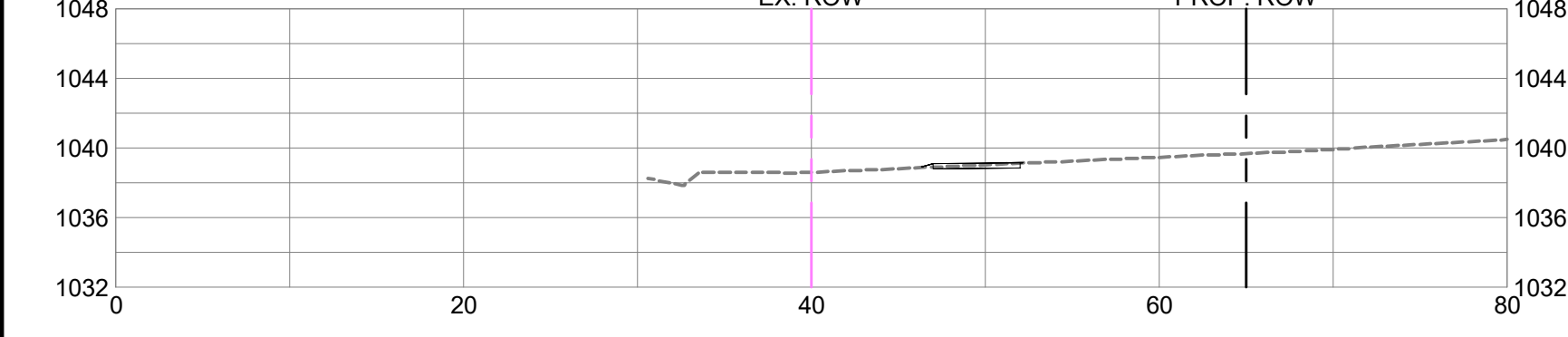
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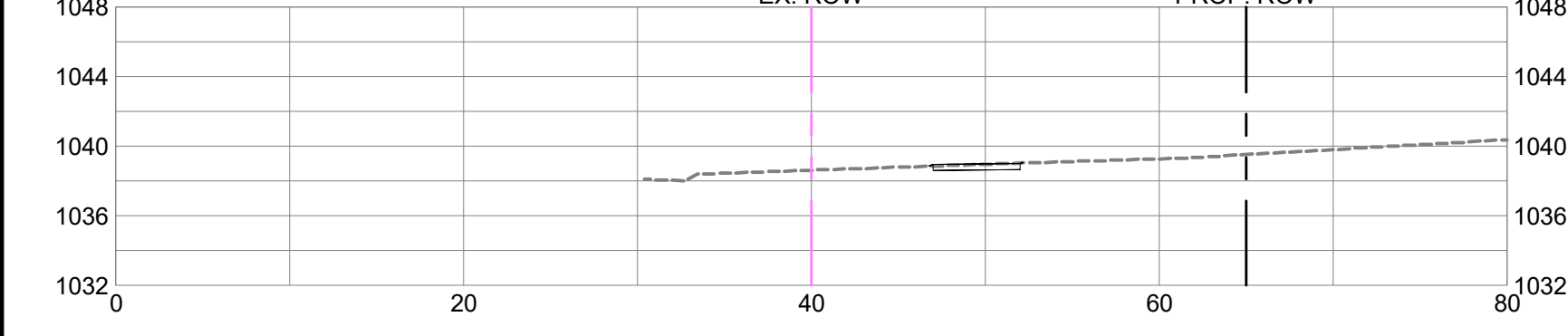
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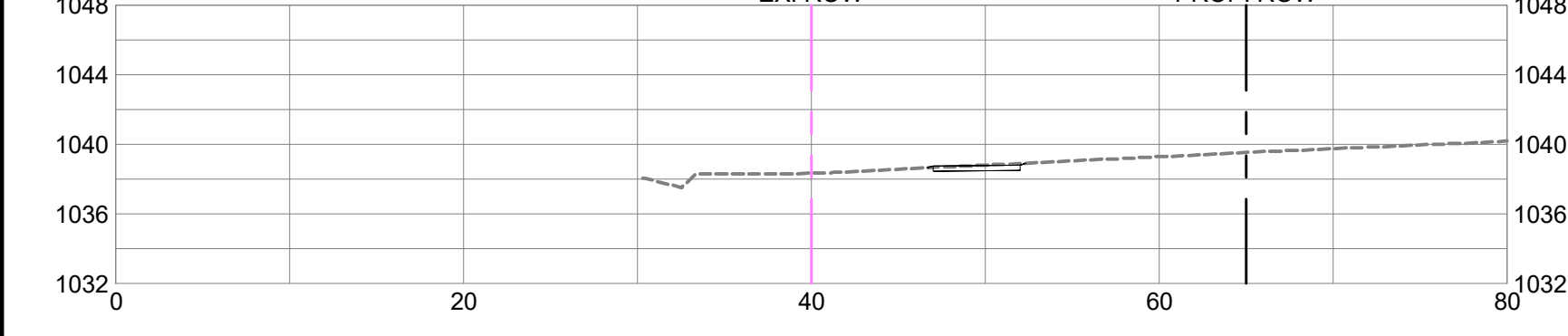
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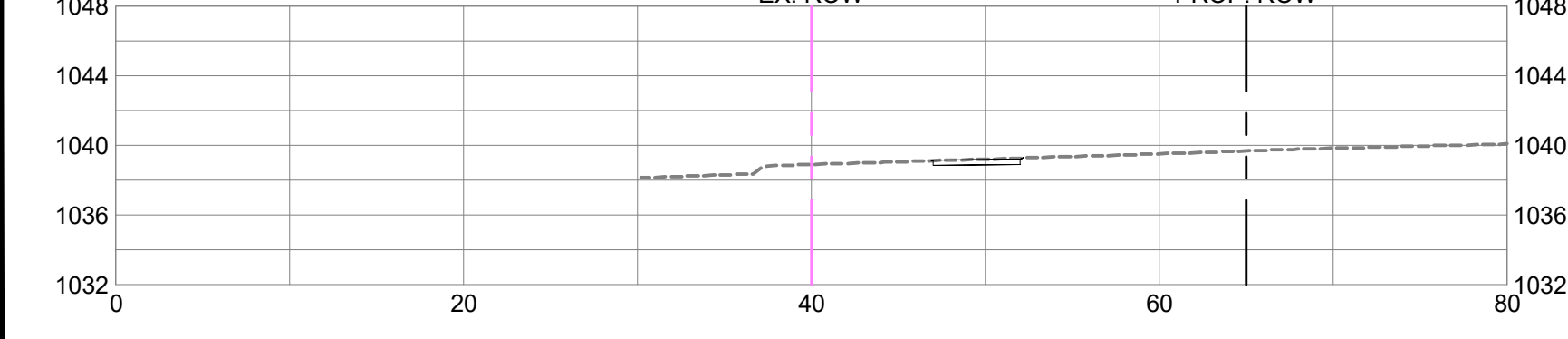
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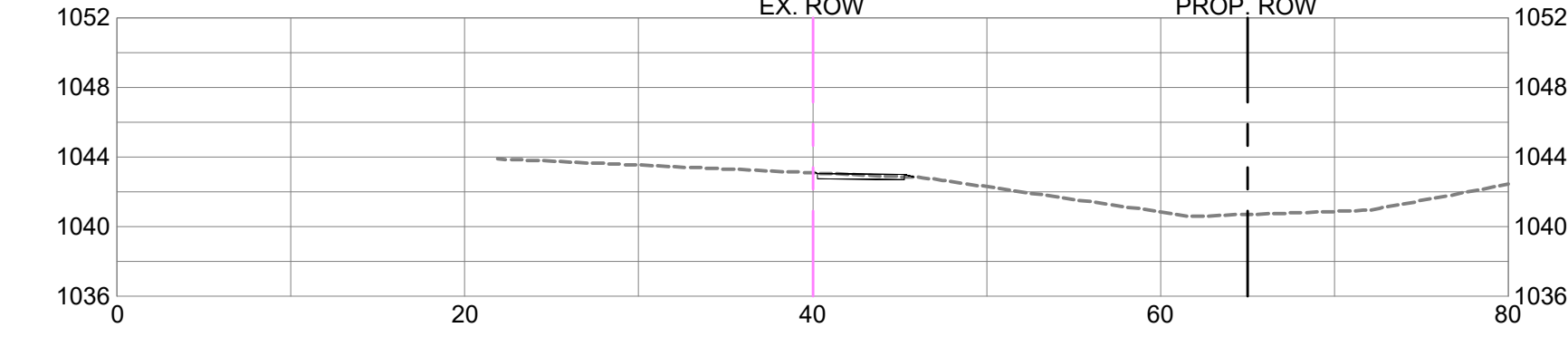
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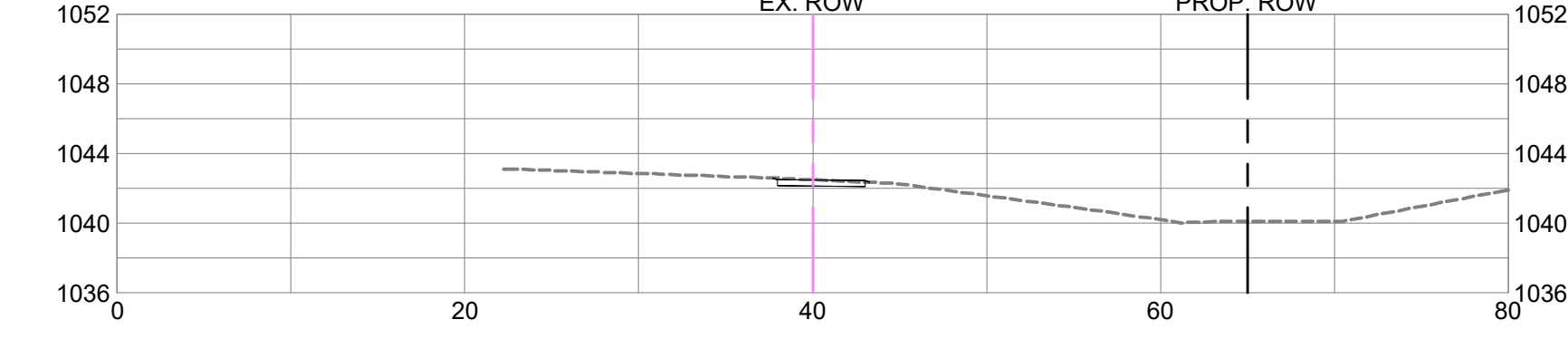
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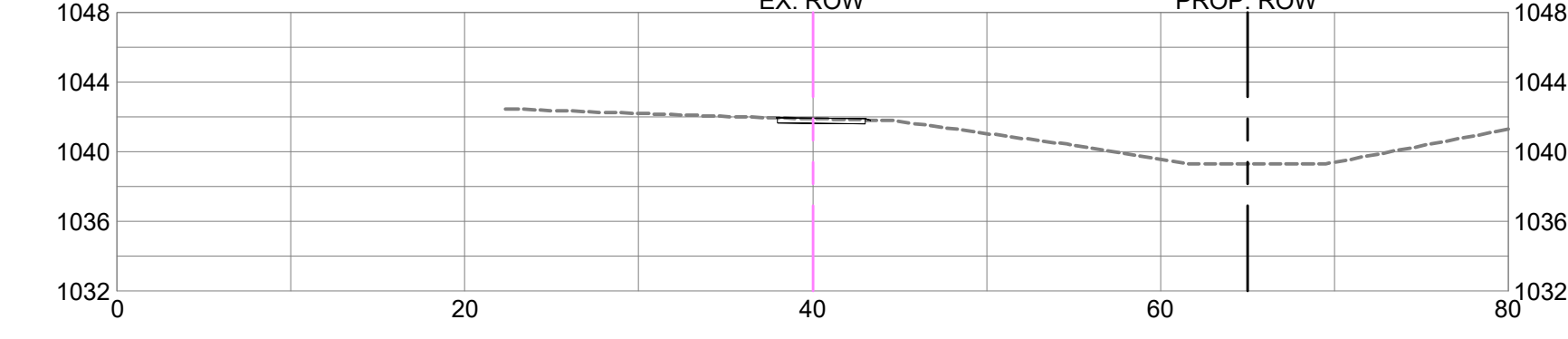
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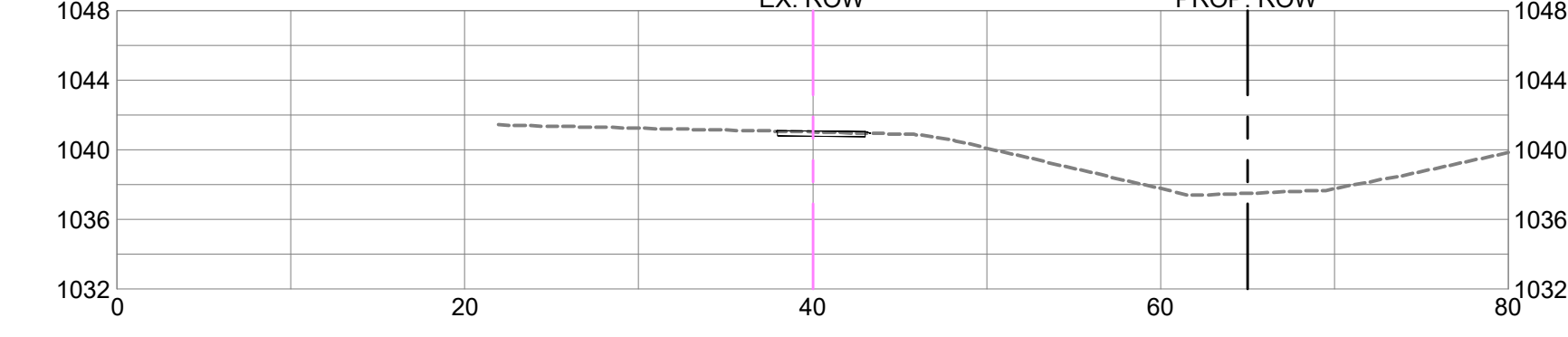
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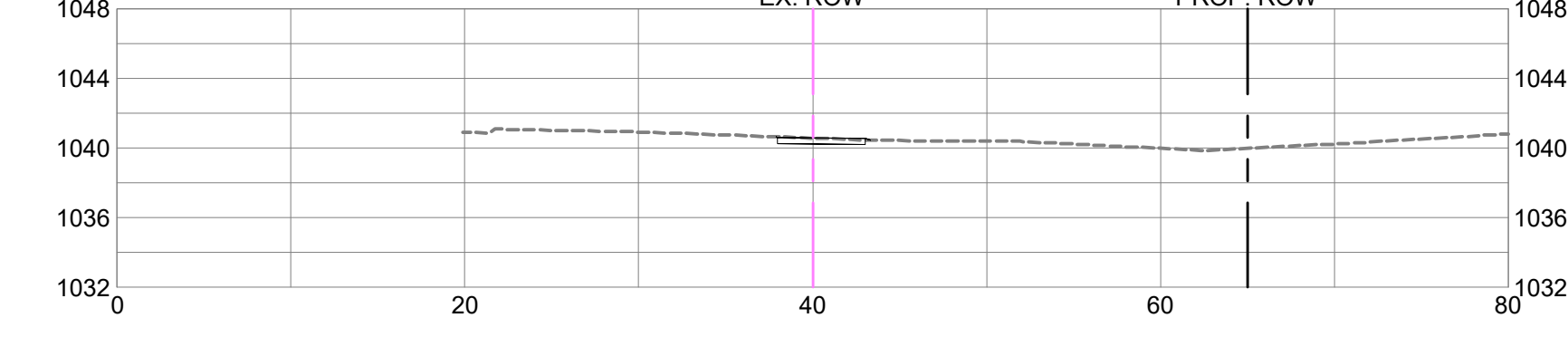
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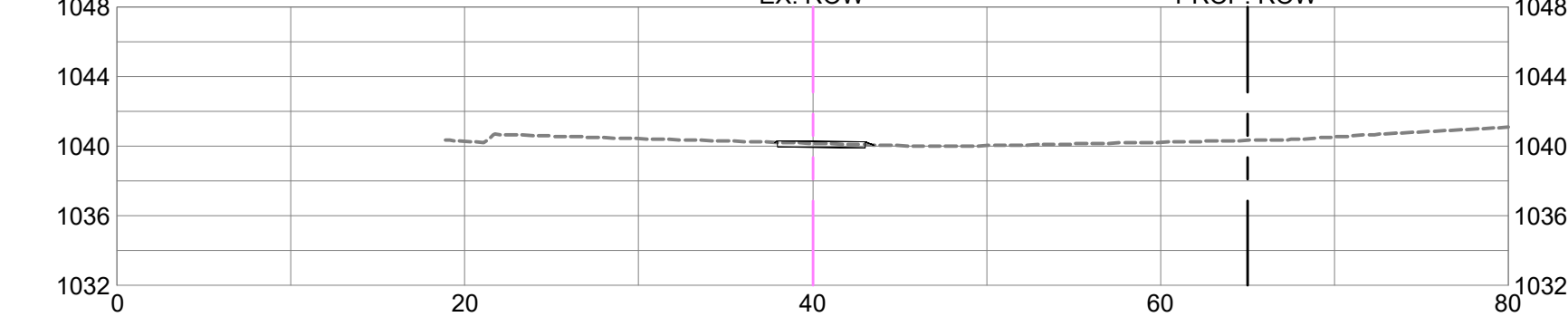
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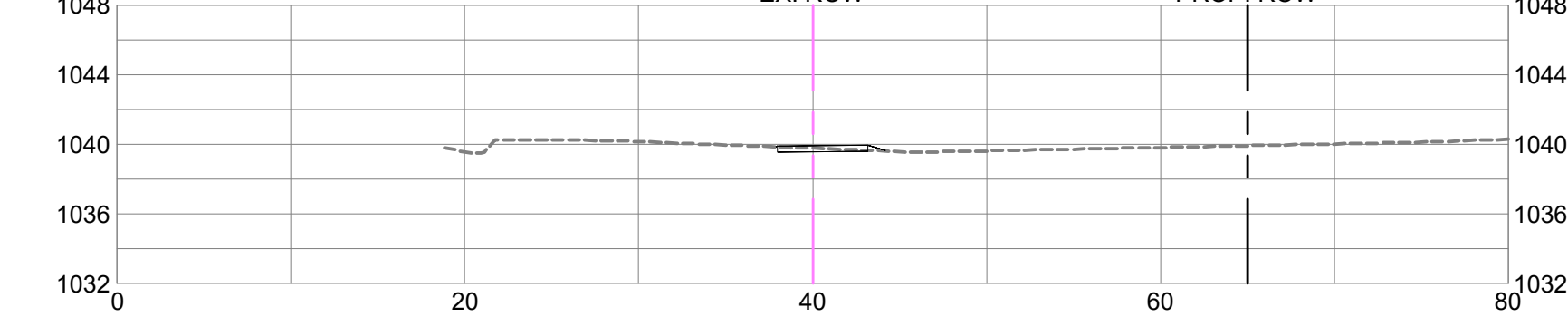
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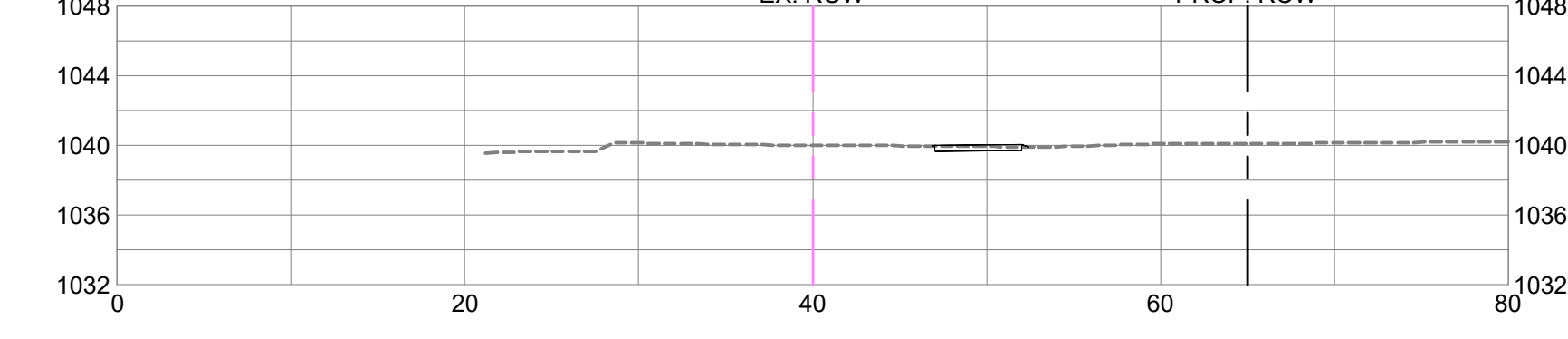
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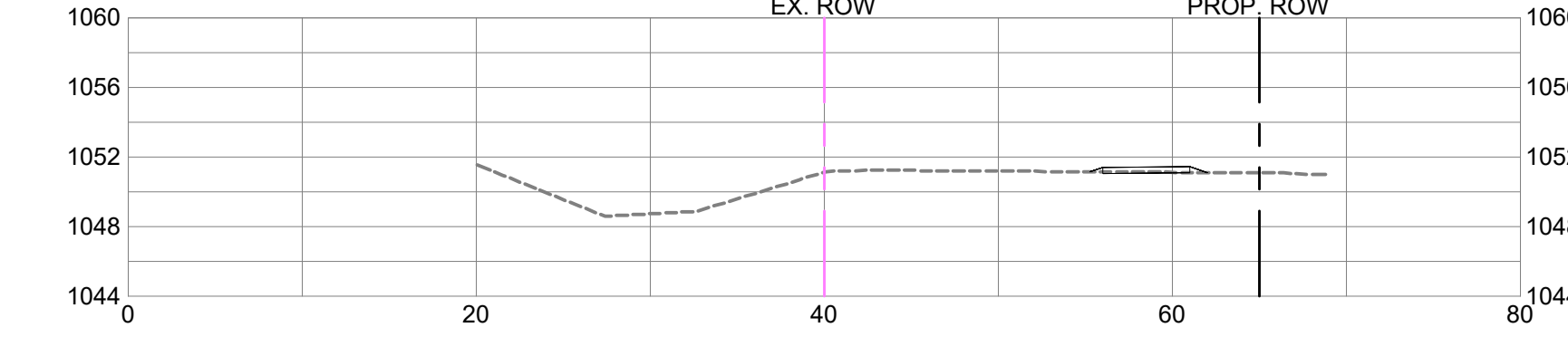


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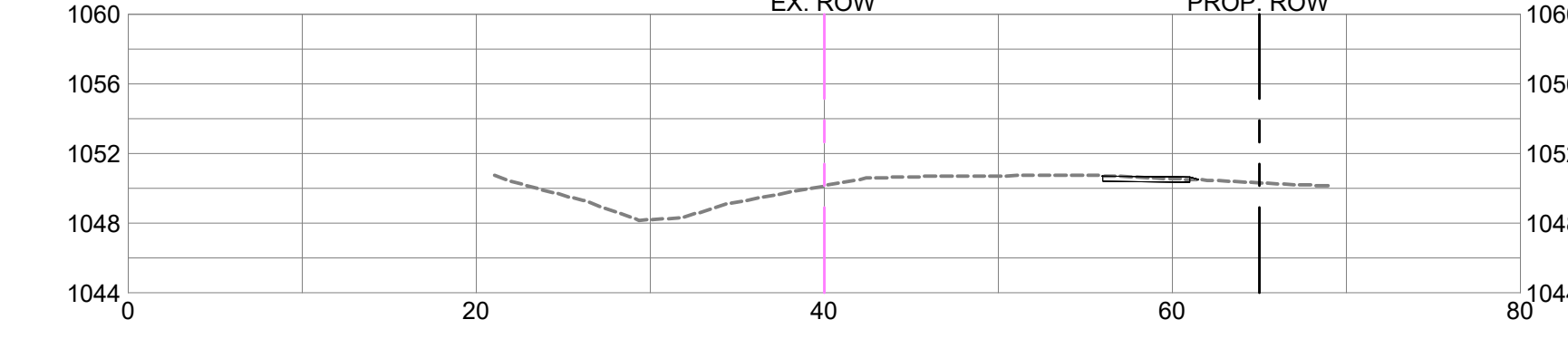


ROUTE HH

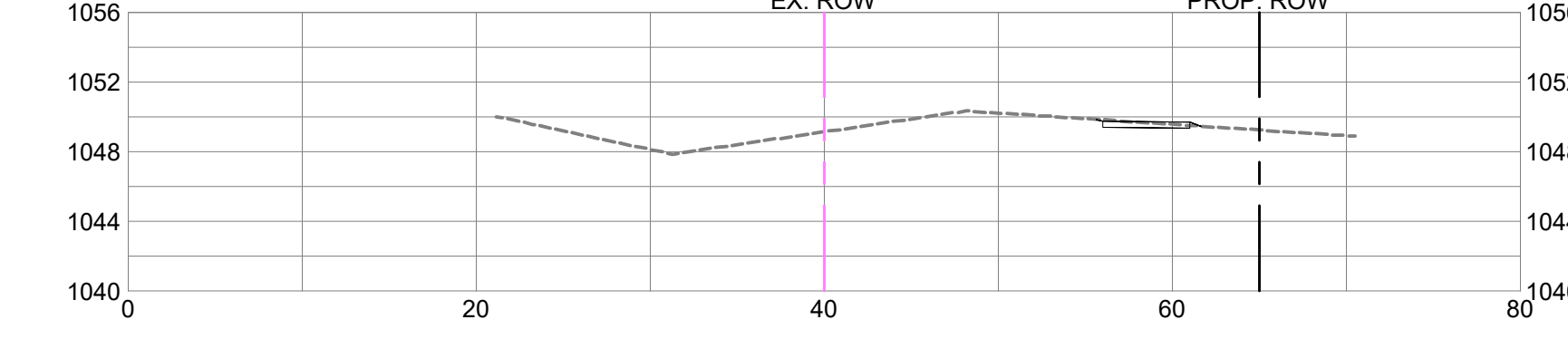
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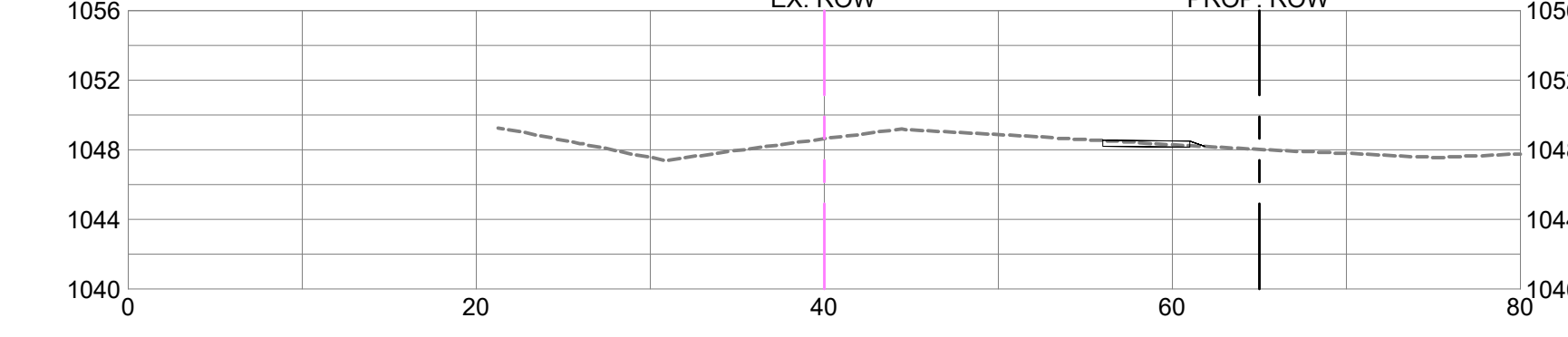
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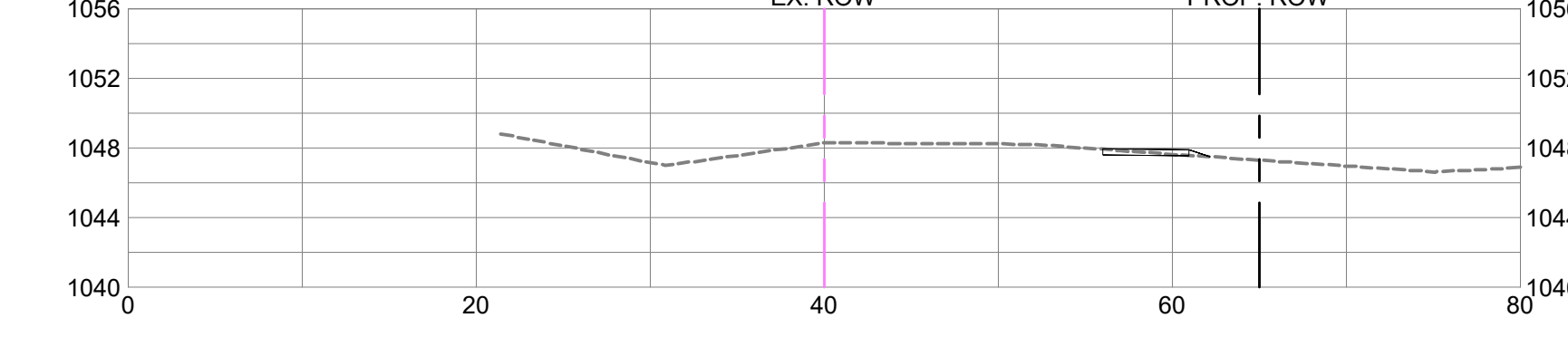
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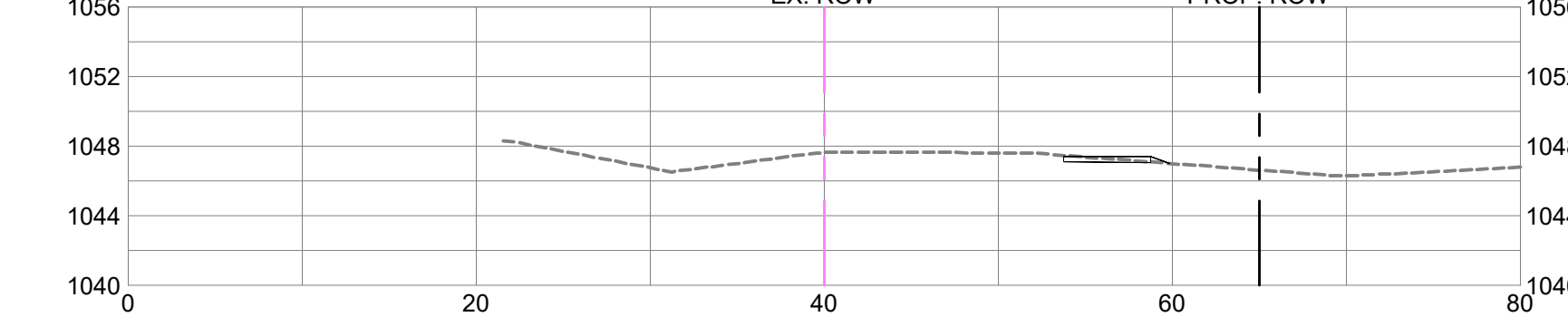
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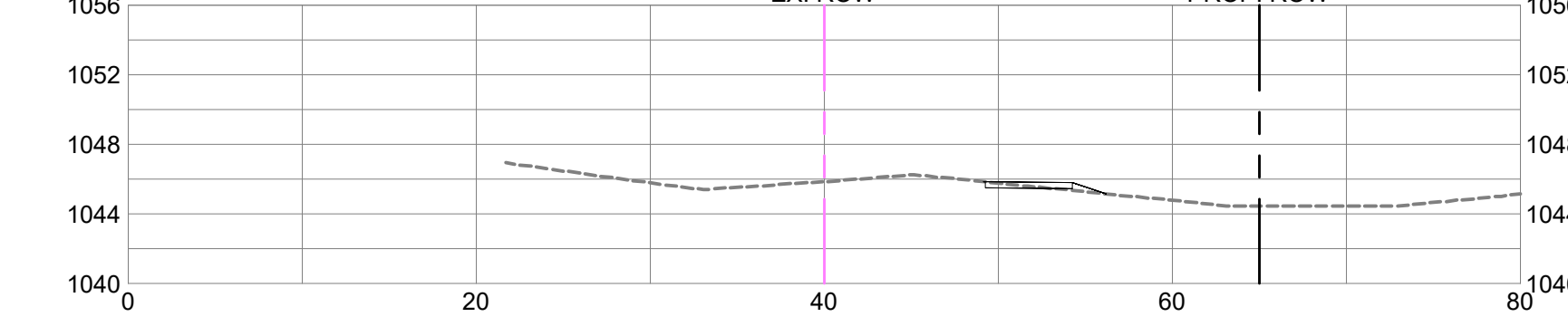
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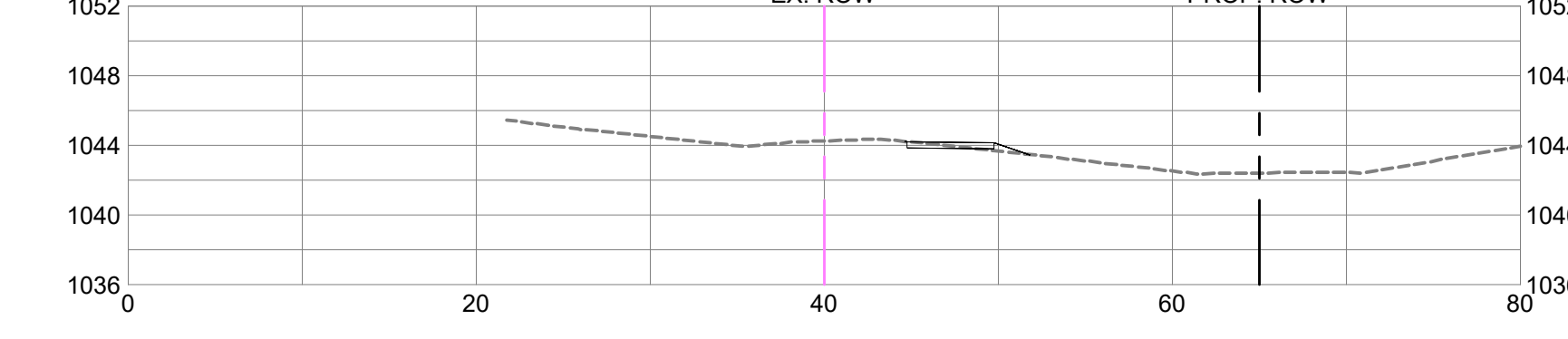
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33+00.00



32+50.00



NO.	DESCRIPTION	BY	DATE

TAP-1601(705)
SIDEWALKS

C-10.0
CROSS SECTIONS

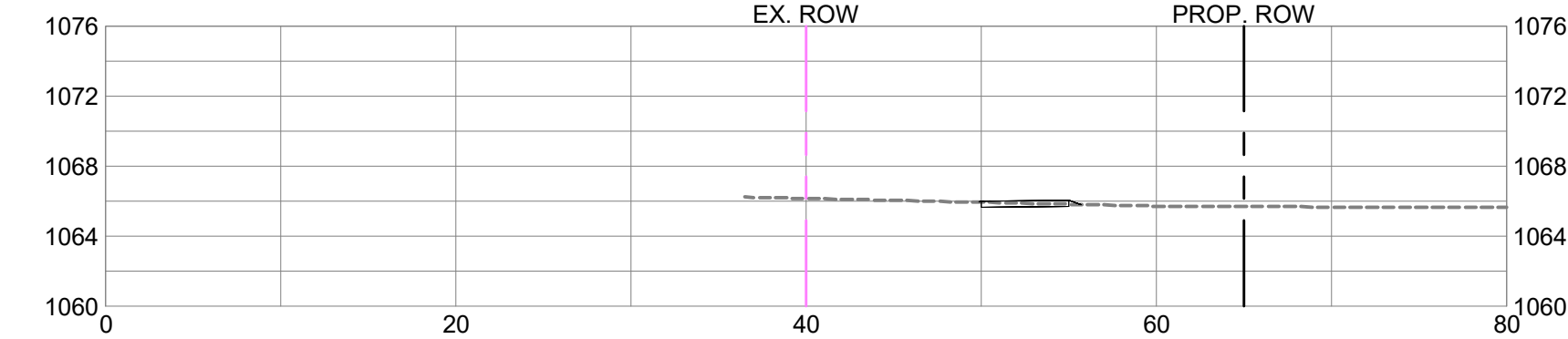
ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

PROJECT NUMBER:
230012
DATE:
10/16/2025

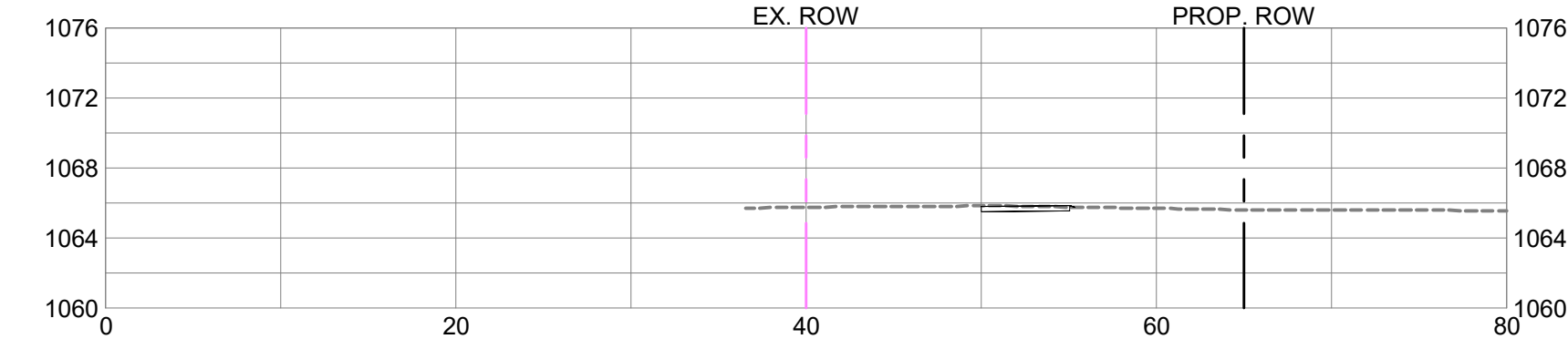


ROUTE HH

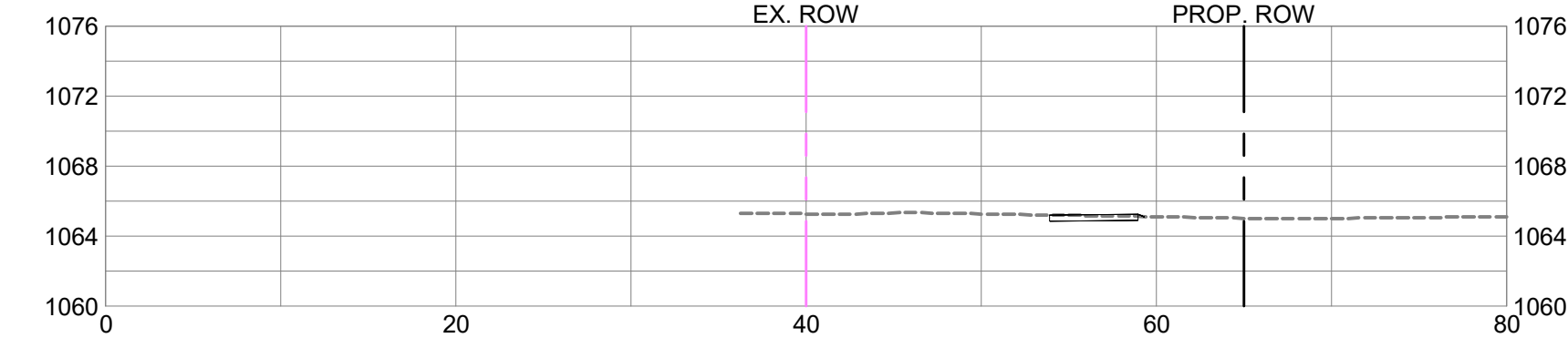
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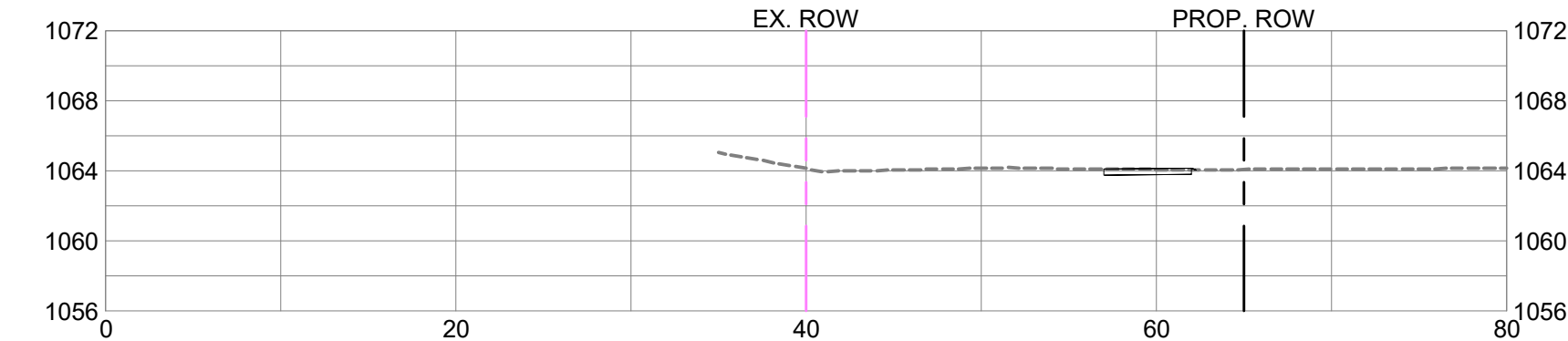
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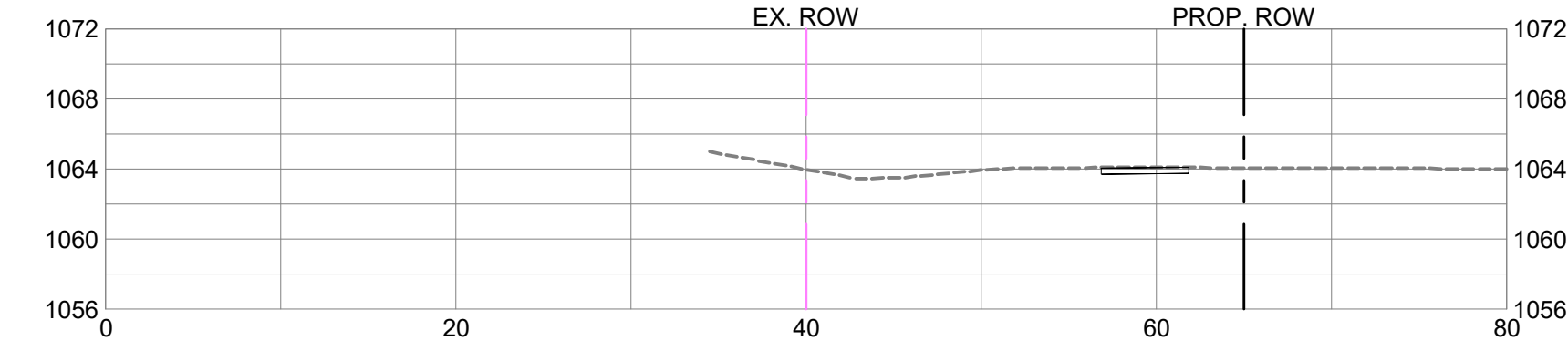
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47+60.00



47+50.00



REVISIONS		
NO.	DESCRIPTION	DATE

C-10.2

CROSS SECTIONS

TAP-1601(705)

SIDEWALKS

ROUTE HH & CHAPEL ROAD

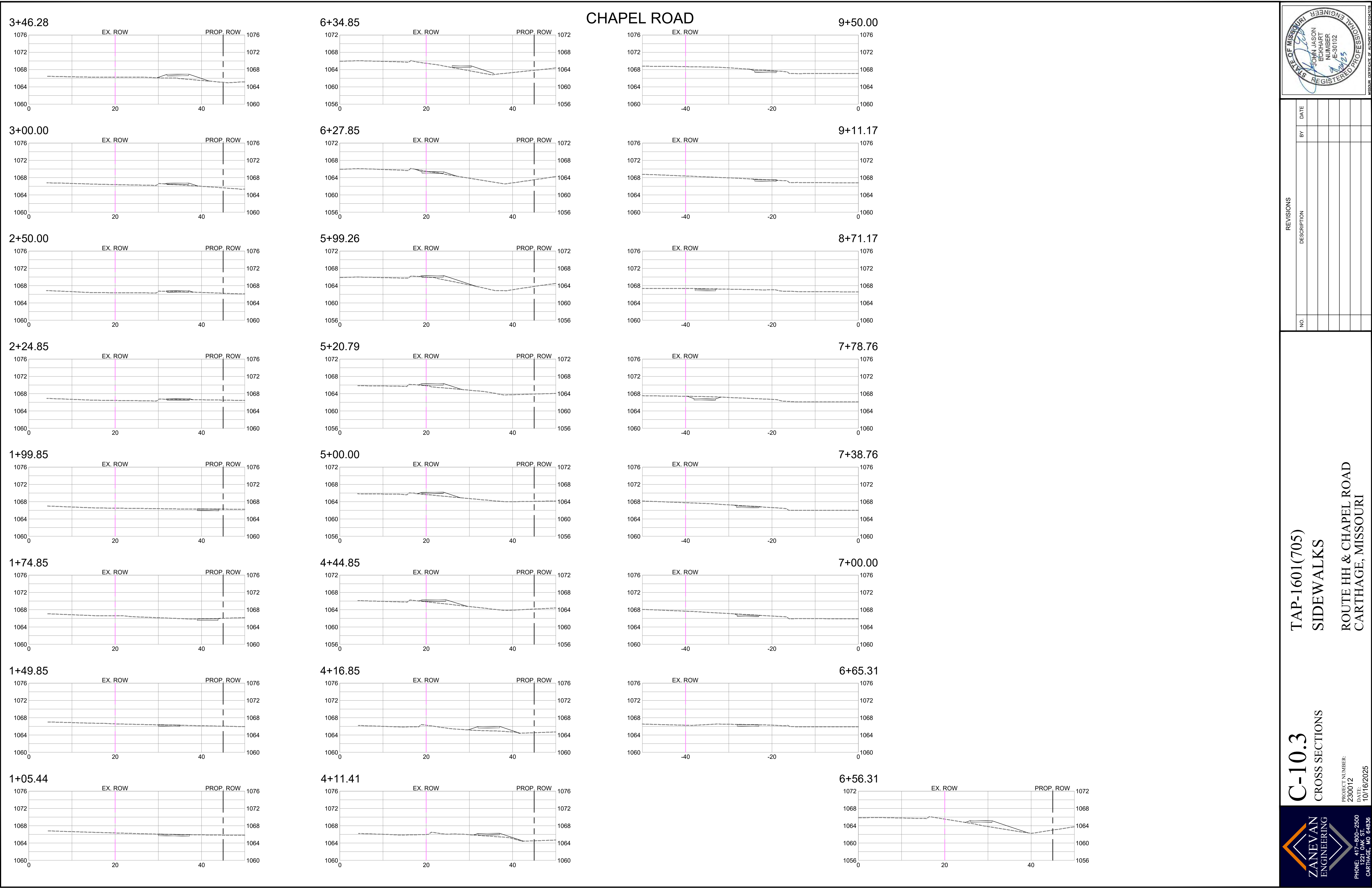
CARTHAGE, MISSOURI

PROJECT NUMBER: 230012

DATE: 10/16/2025

ZANEVAN
ENGINEERING

PHONE: 417-800-2500
1221 OAK ST.
CARTHAGE, MO 64836



STATE OF MISSOURI

JOHN JASON

EXCHART

NUMBER

E-30102

REGISTERED PROFESSIONAL ENGINEER

MISSOURI CERTIFICATE OF AUTHORITY E-201010207

REVISIONS

NO.

DESCRIPTION

BY

DATE

C-10.3

CROSS SECTIONS

TAP-1601(705)

SIDEWALKS

ROUTE HH & CHAPEL ROAD

CARTHAGE, MISSOURI

PROJECT NUMBER:

230012

DATE:

10/16/2025

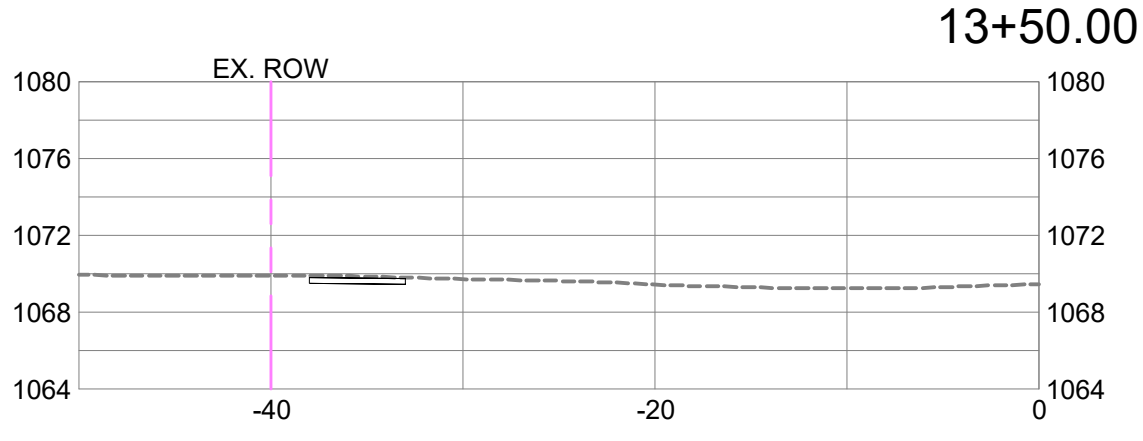
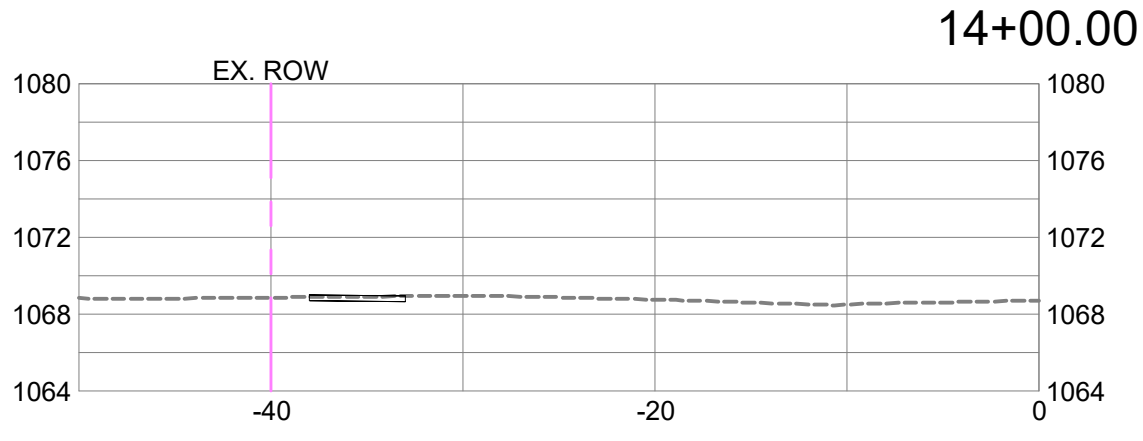
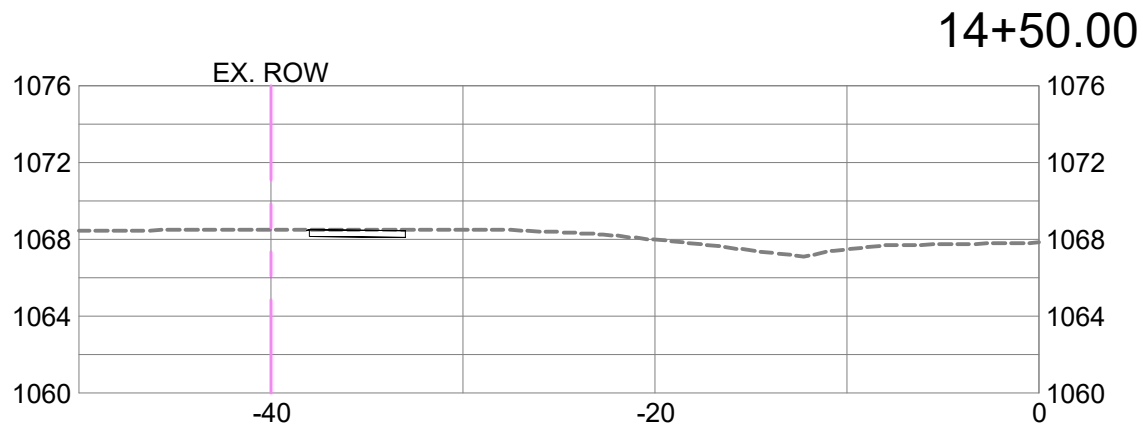
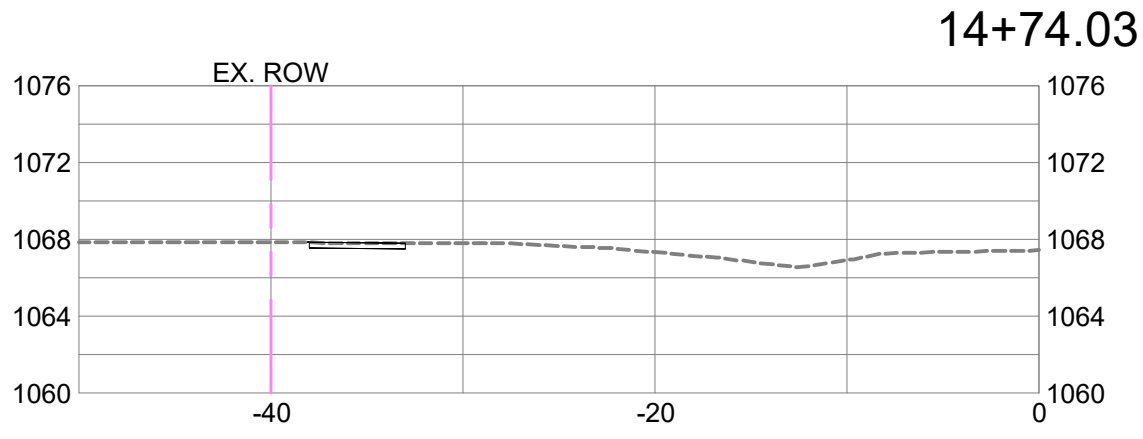
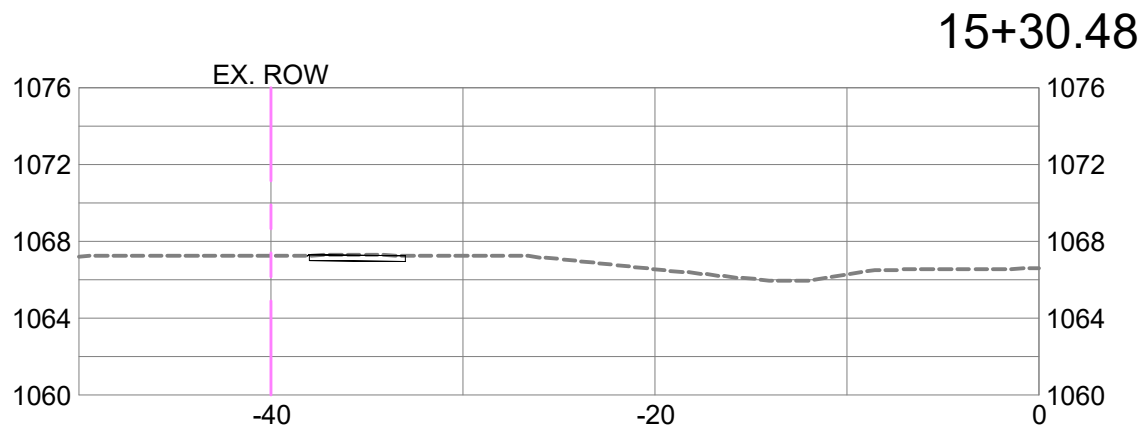
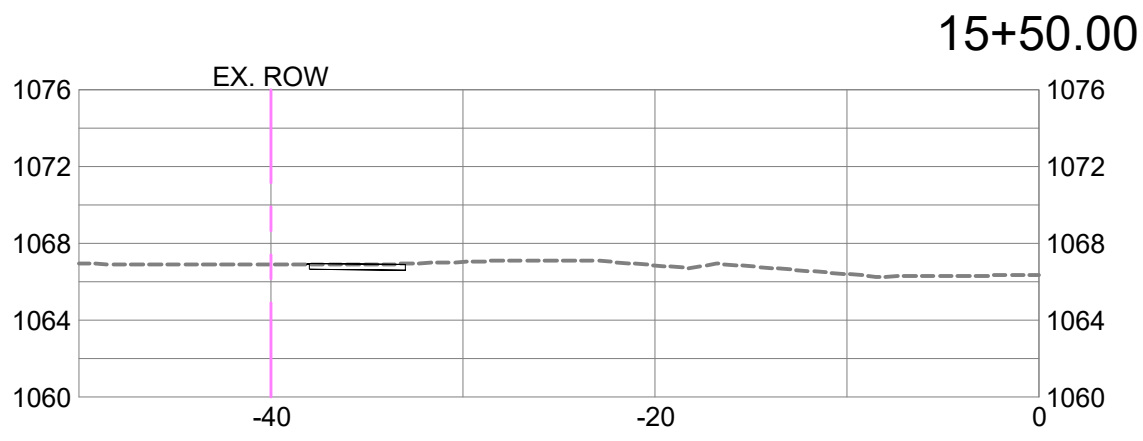
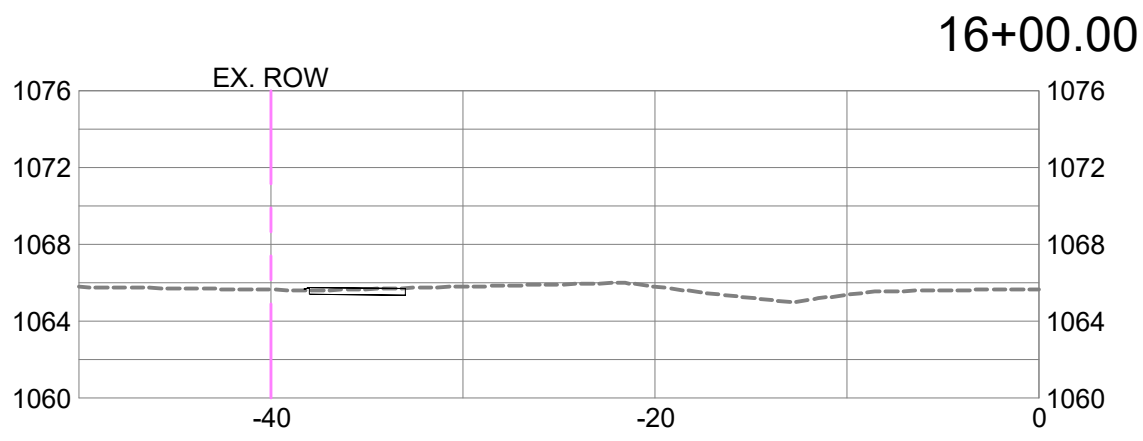
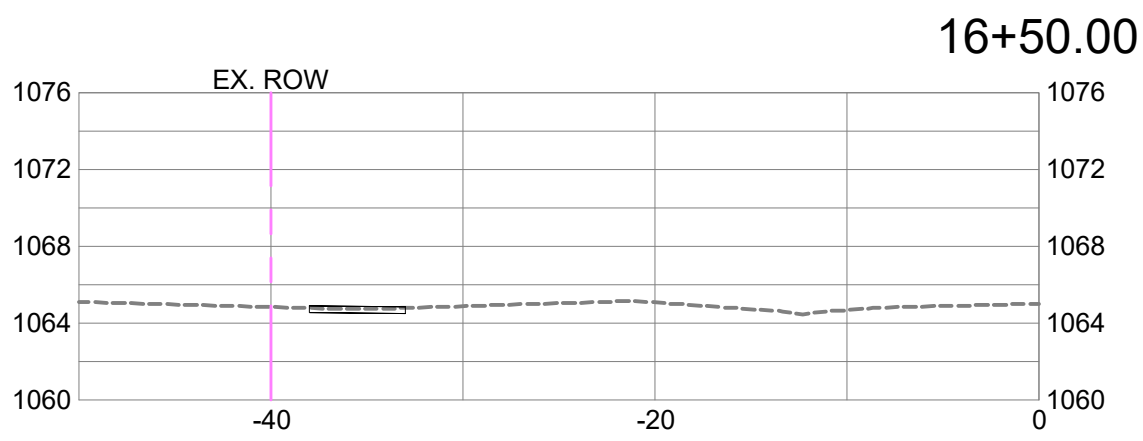
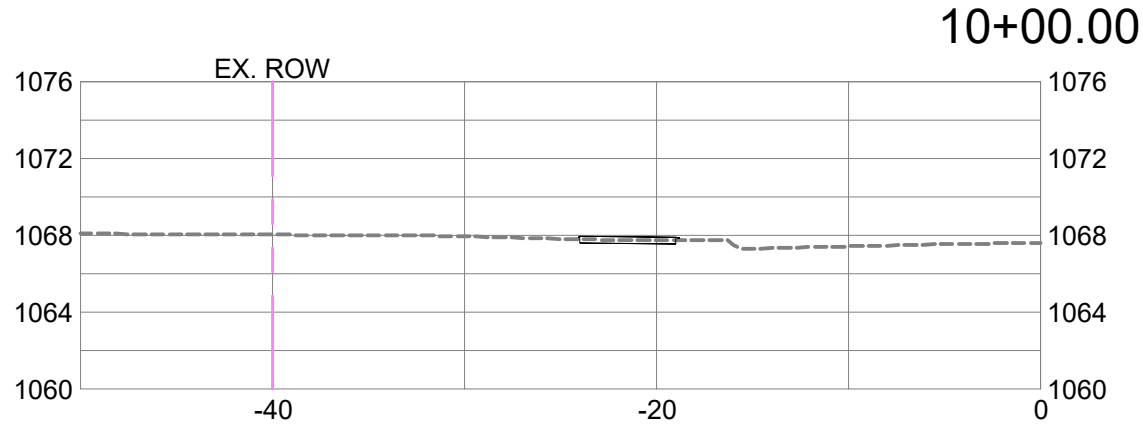
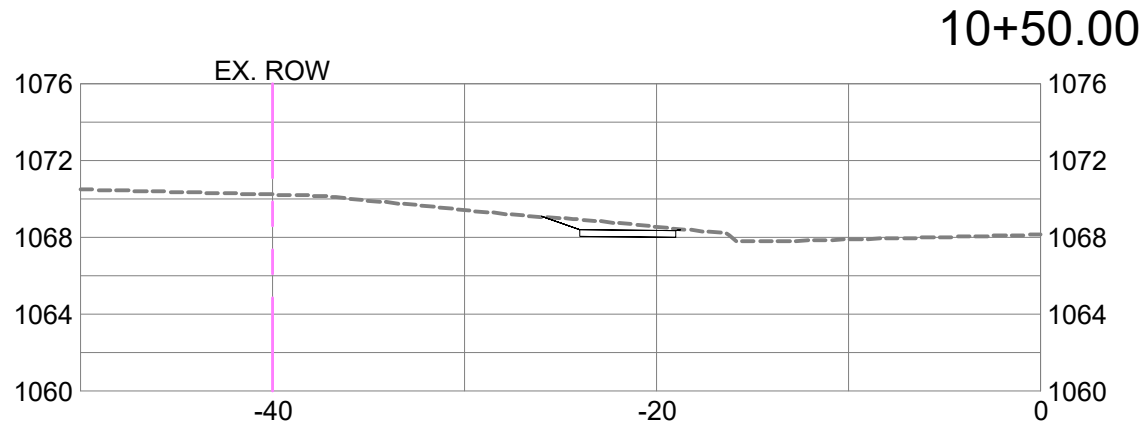
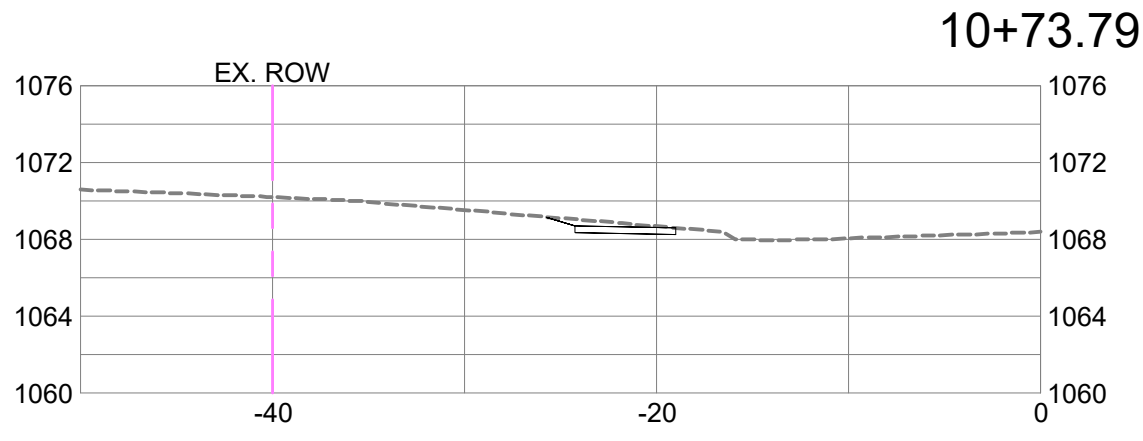
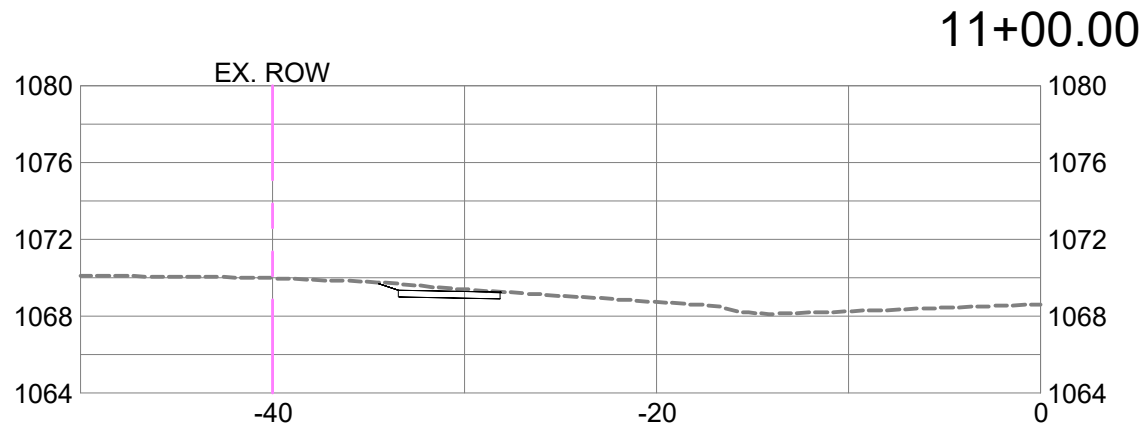
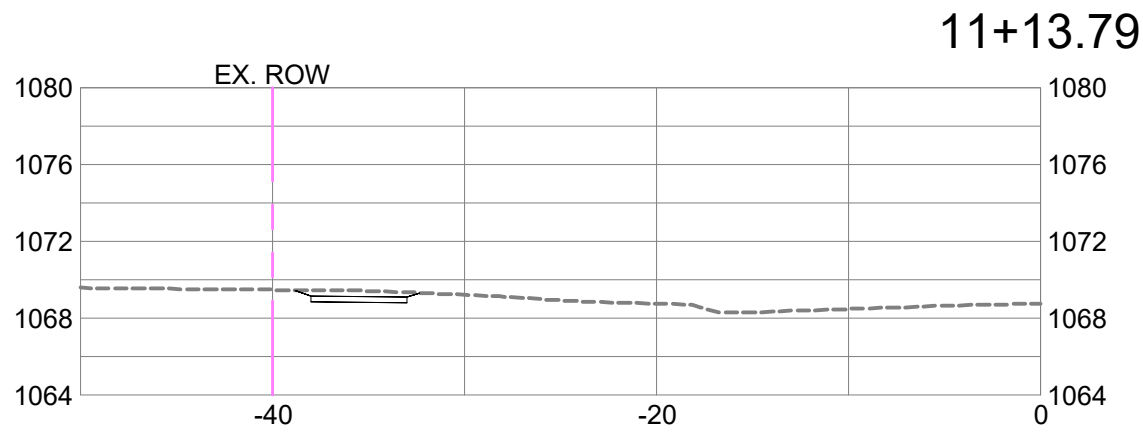
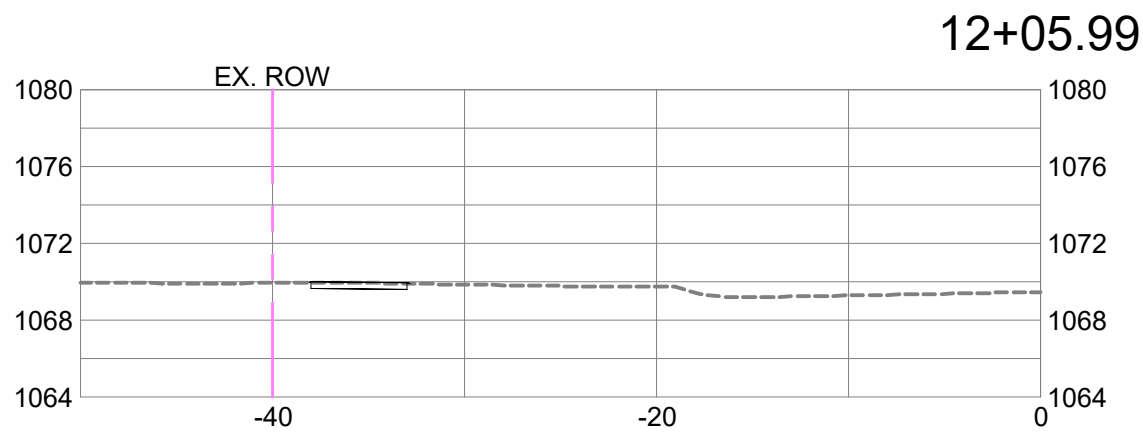
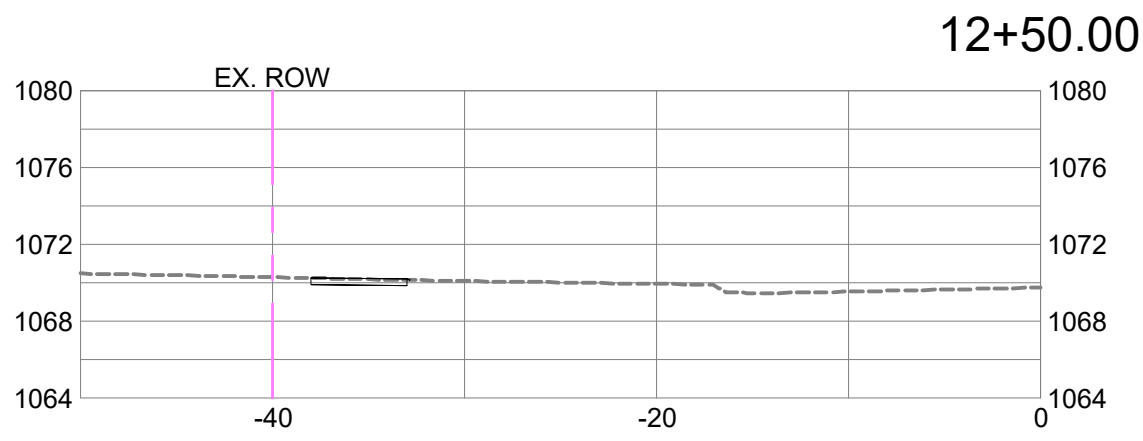
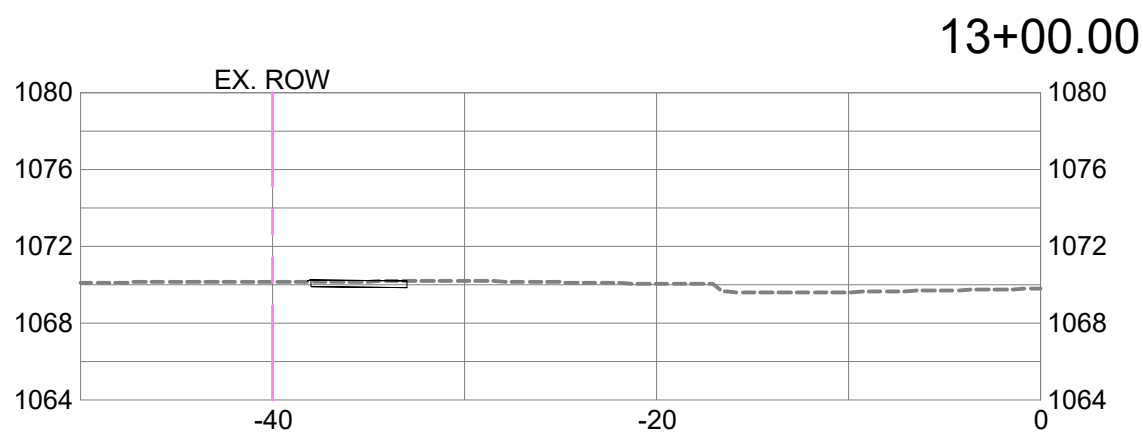
ZANEVAN

ENGINEERING

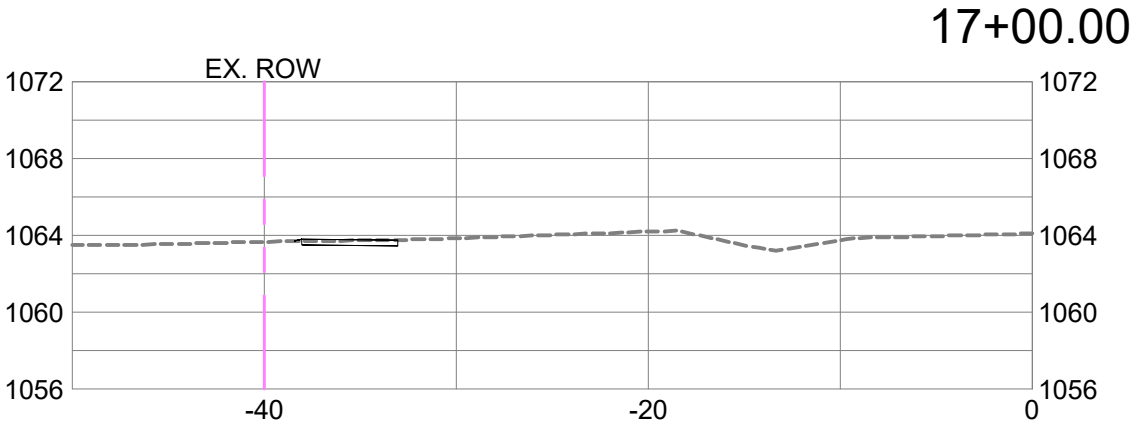
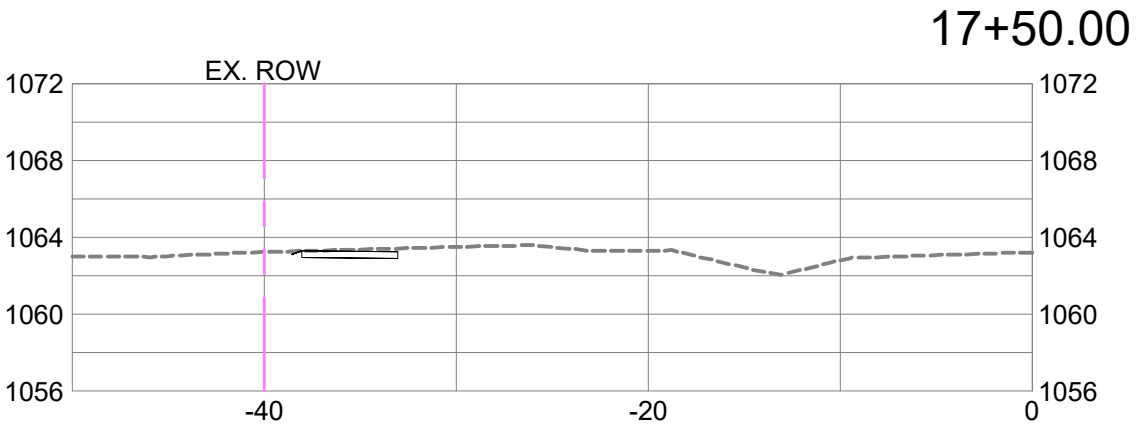
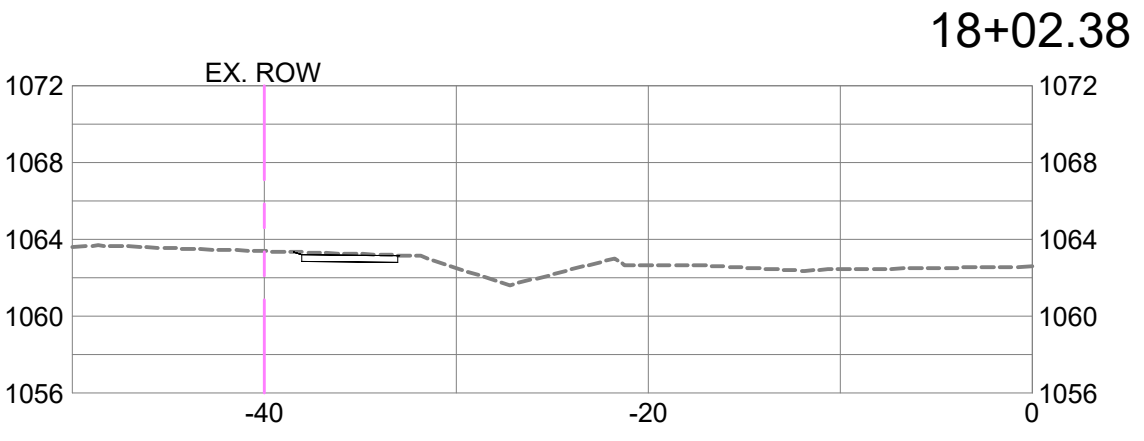
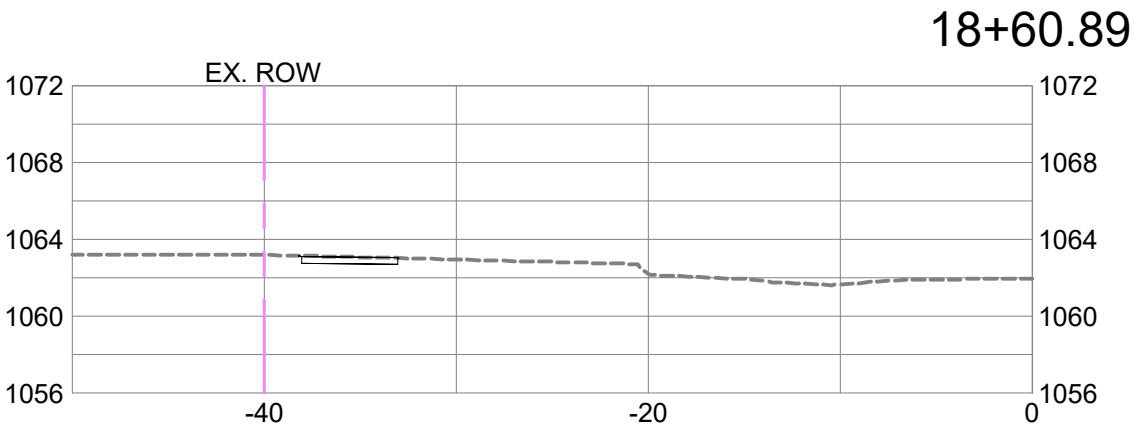
PHONE: 417-800-2500

1221 OAK ST.

CARTHAGE, MO 64836



CHAPEL ROAD



REVISIONS		NO.	DESCRIPTION	BY	DATE

C-10.4
CROSS SECTIONS

TAP-1601(705)
SIDEWALKS

ROUTE HH & CHAPEL ROAD
CARTHAGE, MISSOURI

PROJECT NUMBER:
230012
DATE:
10/16/2025

