

DESIGN DESIGNATION

W/O RTE - HH
 A.A.D.T. - 2026 = 2054
 A.A.D.T. - 2046 = 2677
 T = 25%
 V = 60 M.P.H.

F/O RTE - HH
 A.A.D.T. - 2026 = 2803
 A.A.D.T. - 2046 = 3118
 T = 19%
 V = 60 M.P.H.

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

NORMAL ACCESS RIGHT OF WAY

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 PLANS FOR PROPOSED
 STATE HIGHWAY
 MONROE COUNTY
 T55-56N, R7-8W

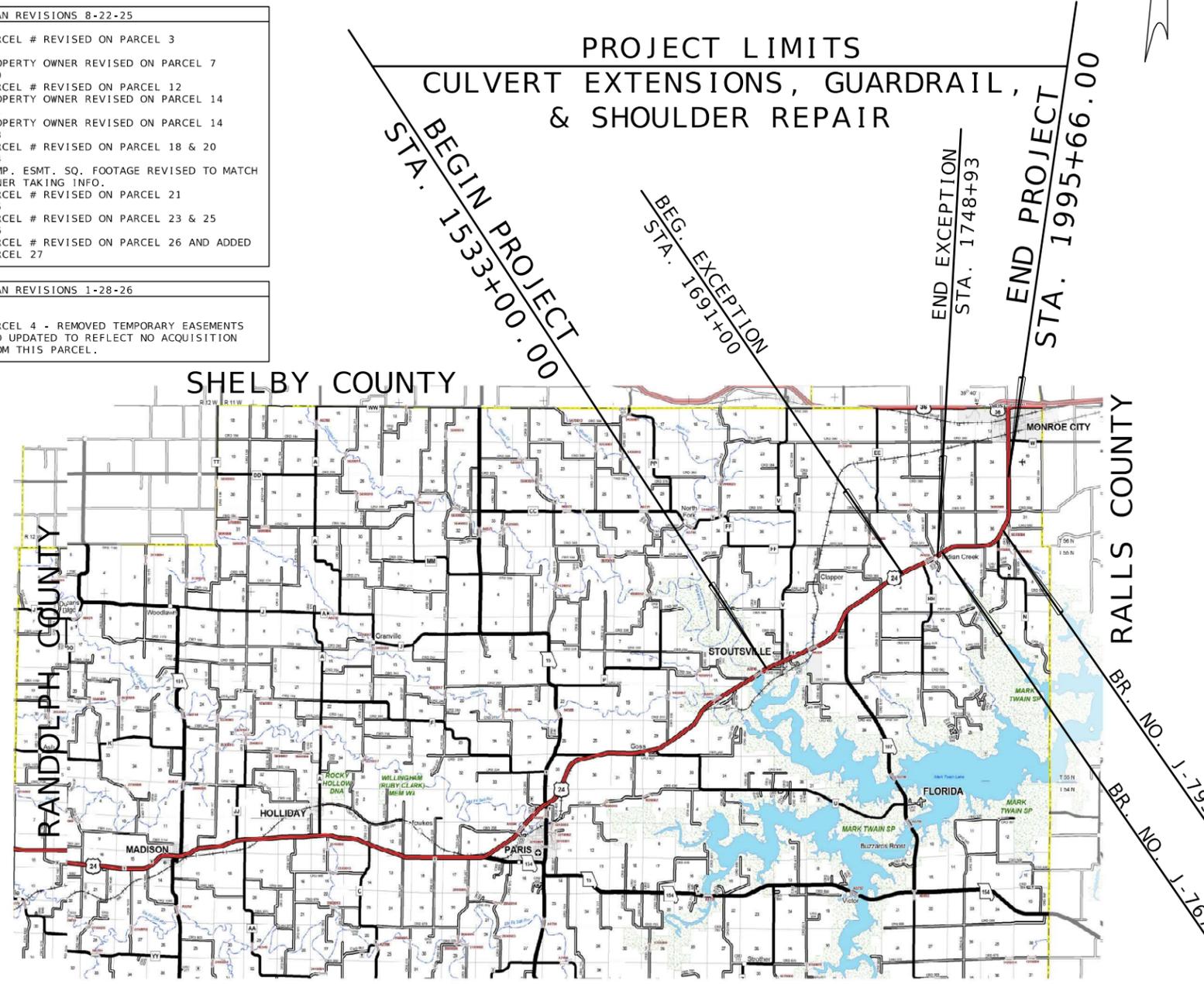


KEY MAP
LOCATION OF MONROE COUNTY

RIGHT-OF-WAY PLANS
 DATE: 8/22/2025

R/W PLAN REVISIONS 8-22-25
 SHT. 6 PARCEL # REVISED ON PARCEL 3
 SHT. 7 PROPERTY OWNER REVISED ON PARCEL 7
 SHT. 10 PARCEL # REVISED ON PARCEL 12
 PROPERTY OWNER REVISED ON PARCEL 14
 SHT. 11 PROPERTY OWNER REVISED ON PARCEL 14
 SHT. 13 PARCEL # REVISED ON PARCEL 18 & 20
 SHT. 14 TEMP. ESMT. SQ. FOOTAGE REVISED TO MATCH
 OWNER TAKING INFO.
 PARCEL # REVISED ON PARCEL 21
 SHT. 15 PARCEL # REVISED ON PARCEL 23 & 25
 SHT. 16 PARCEL # REVISED ON PARCEL 26 AND ADDED
 PARCEL 27

R/W PLAN REVISIONS 1-28-26
 SHT. 7 PARCEL 4 - REMOVED TEMPORARY EASEMENTS
 AND UPDATED TO REFLECT NO ACQUISITION
 FROM THIS PARCEL.



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (XX SHEETS)--	2
QUANTITIES (QU) (XX SHEETS)-----	3
PLAN-PLAN (PP)-----	4-16
RIGHT OF WAY (RW)-----	XX-XX
REFERENCE POINTS (RP)-----	XX-XX
COORDINATE POINTS (CP)-----	XX-XX
SPECIAL SHEETS (SS)-----	XX-XX
TRAFFIC CONTROL SHEETS (TC)-----	XX-XX
EROSION CONTROL SHEETS (EC)-----	XX-XX
LIGHTING (LT)-----	XX-XX
SIGNALS (SG)-----	XX-XX
SIGNING (SN)-----	XX-XX
PAVEMENT MARKING (PM)-----	XX-XX
CULVERT SECTIONS (CS)-----	XX-XX
BRIDGE DRAWINGS (B)	
A####	XX-XX
CROSS SECTIONS (XS)-----	XX-XX

DATE PREPARED 1/28/2026	
ROUTE 24	STATE MO
DISTRICT NE	SHEET NO. 1
COUNTY MONROE	
JOB NO. JNE0047	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

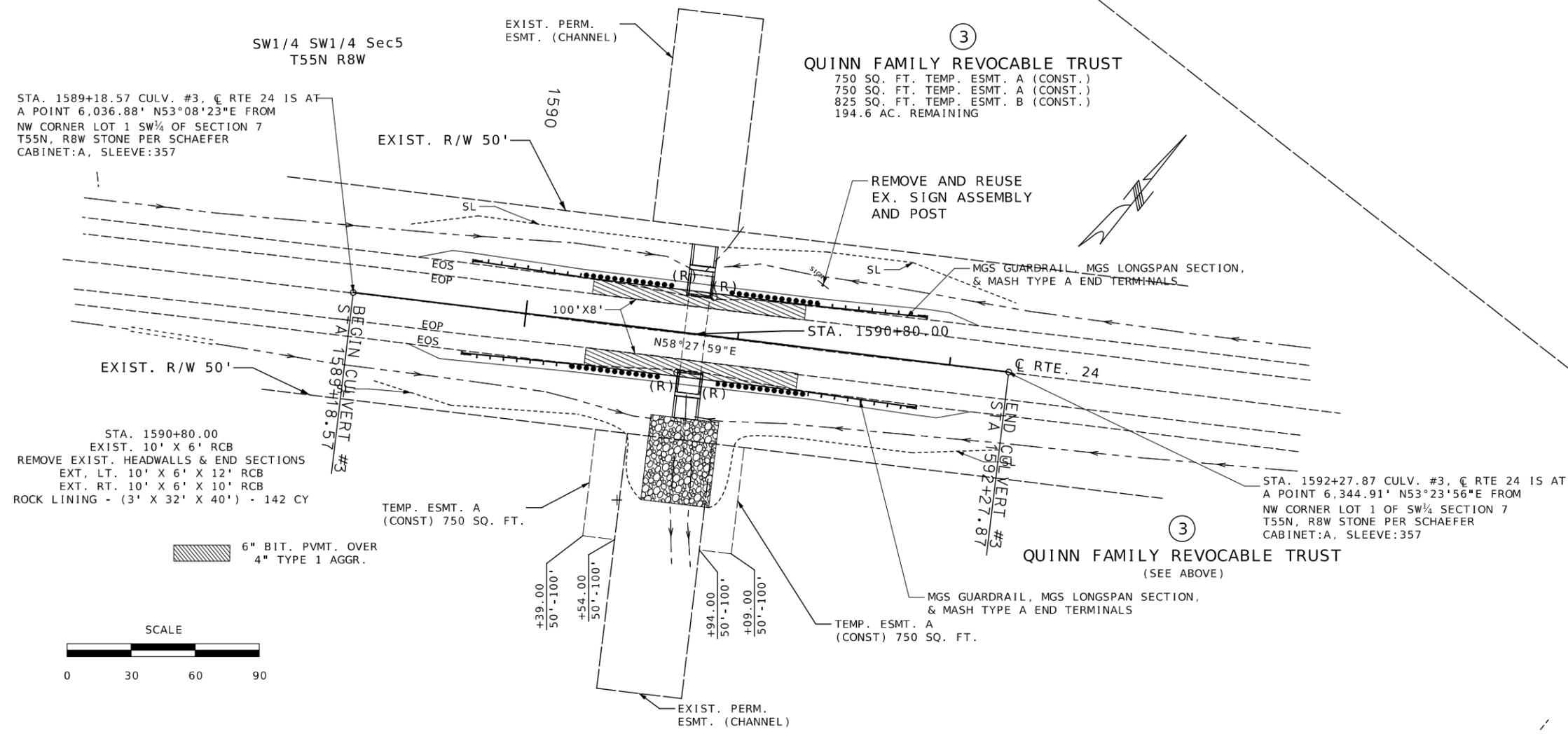
LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 1533+00.00	
END OF PROJECT	STA. 1995+66.00	
APPARENT LENGTH		46266 FEET
EXCEPTIONS:		
STA. 1691+00 TO 1748+93		5793 FEET
EQUATIONS:		
STA. 1541+91.8 BK =		-397.8 FEET
STA. 1545+89.6 AH =		
STA. 1757+69.8 BK =		+5.2 FEET
STA. 1757+64.6 AH =		
TOTAL CORRECTIONS		-6185.6 FEET
NET LENGTH OF PROJECT		40080.4 FEET
STATE LENGTH		7.591 MILES
FOR INFORMATION ONLY		
ESTIMATED DISTURBED ACRES		XX ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TITLESHEET



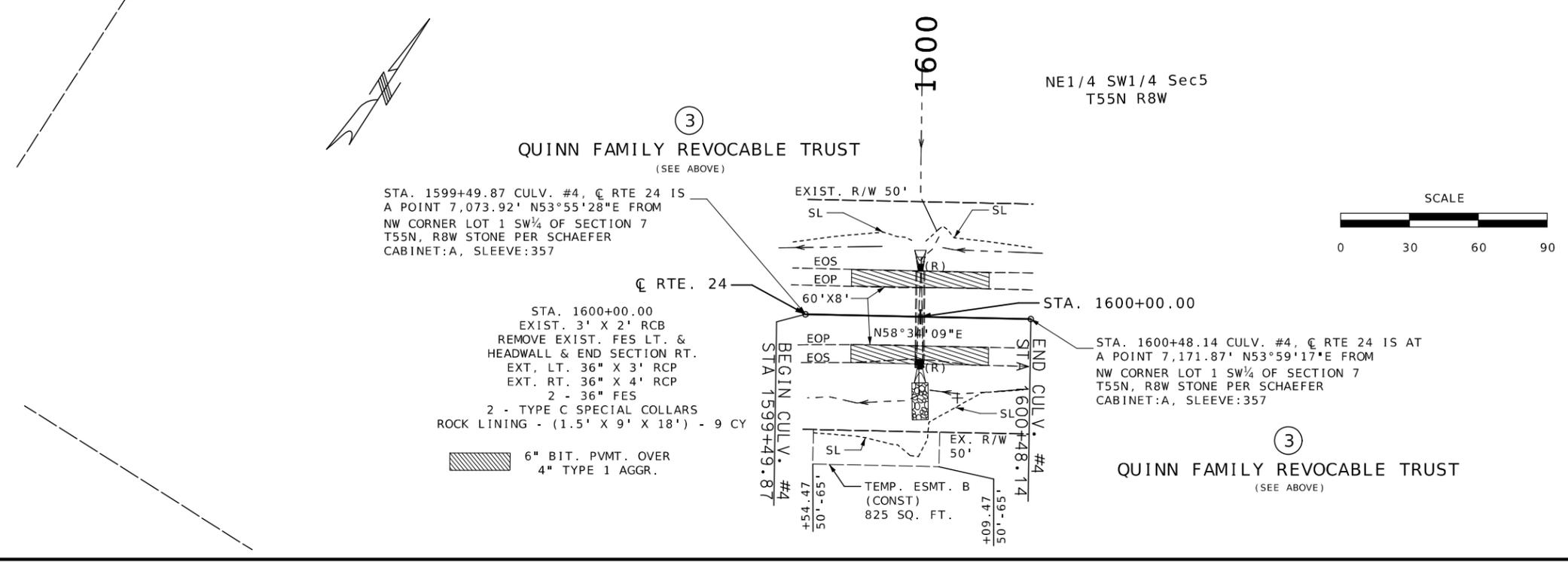
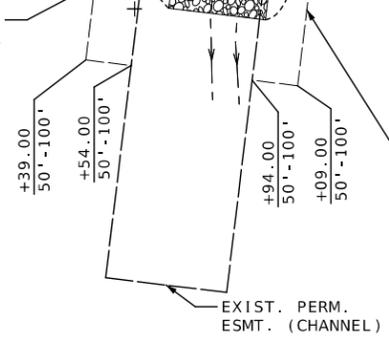
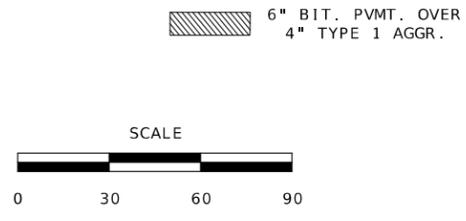
SW1/4 SW1/4 Sec5
T55N R8W

STA. 1589+18.57 CULV. #3, C RTE 24 IS AT
A POINT 6,036.88' N53°08'23"E FROM
NW CORNER LOT 1 SW¼ OF SECTION 7
T55N, R8W STONE PER SCHAEFER
CABINET:A, SLEEVE:357

③
QUINN FAMILY REVOCABLE TRUST
750 SQ. FT. TEMP. ESMT. A (CONST.)
750 SQ. FT. TEMP. ESMT. A (CONST.)
825 SQ. FT. TEMP. ESMT. B (CONST.)
194.6 AC. REMAINING

STA. 1590+80.00
EXIST. 10' X 6' RCB
REMOVE EXIST. HEADWALLS & END SECTIONS
EXT. LT. 10' X 6' X 12' RCB
EXT. RT. 10' X 6' X 10' RCB
ROCK LINING - (3' X 32' X 40') - 142 CY

STA. 1592+27.87 CULV. #3, C RTE 24 IS AT
A POINT 6,344.91' N53°23'56"E FROM
NW CORNER LOT 1 OF SW¼ SECTION 7
T55N, R8W STONE PER SCHAEFER
CABINET:A, SLEEVE:357



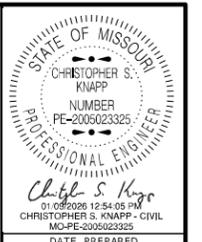
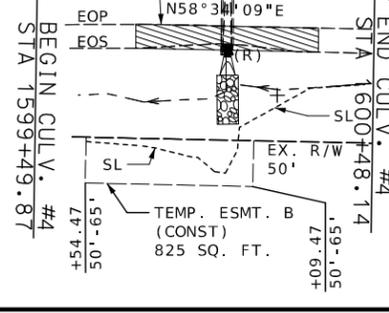
NE1/4 SW1/4 Sec5
T55N R8W

STA. 1599+49.87 CULV. #4, C RTE 24 IS AT
A POINT 7,073.92' N53°55'28"E FROM
NW CORNER LOT 1 SW¼ OF SECTION 7
T55N, R8W STONE PER SCHAEFER
CABINET:A, SLEEVE:357

③
QUINN FAMILY REVOCABLE TRUST
(SEE ABOVE)

STA. 1600+00.00
EXIST. 3' X 2' RCB
REMOVE EXIST. FES LT. &
HEADWALL & END SECTION RT.
EXT. LT. 36" X 3' RCP
EXT. RT. 36" X 4' RCP
2 - 36" FES
2 - TYPE C SPECIAL COLLARS
ROCK LINING - (1.5' X 9' X 18') - 9 CY

STA. 1600+48.14 CULV. #4, C RTE 24 IS AT
A POINT 7,171.87' N53°59'17"E FROM
NW CORNER LOT 1 SW¼ OF SECTION 7
T55N, R8W STONE PER SCHAEFER
CABINET:A, SLEEVE:357



DATE PREPARED
1/7/2026

ROUTE 24 STATE MO
DISTRICT NE SHEET NO. 6

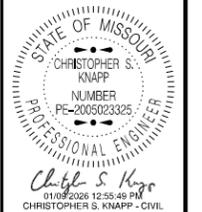
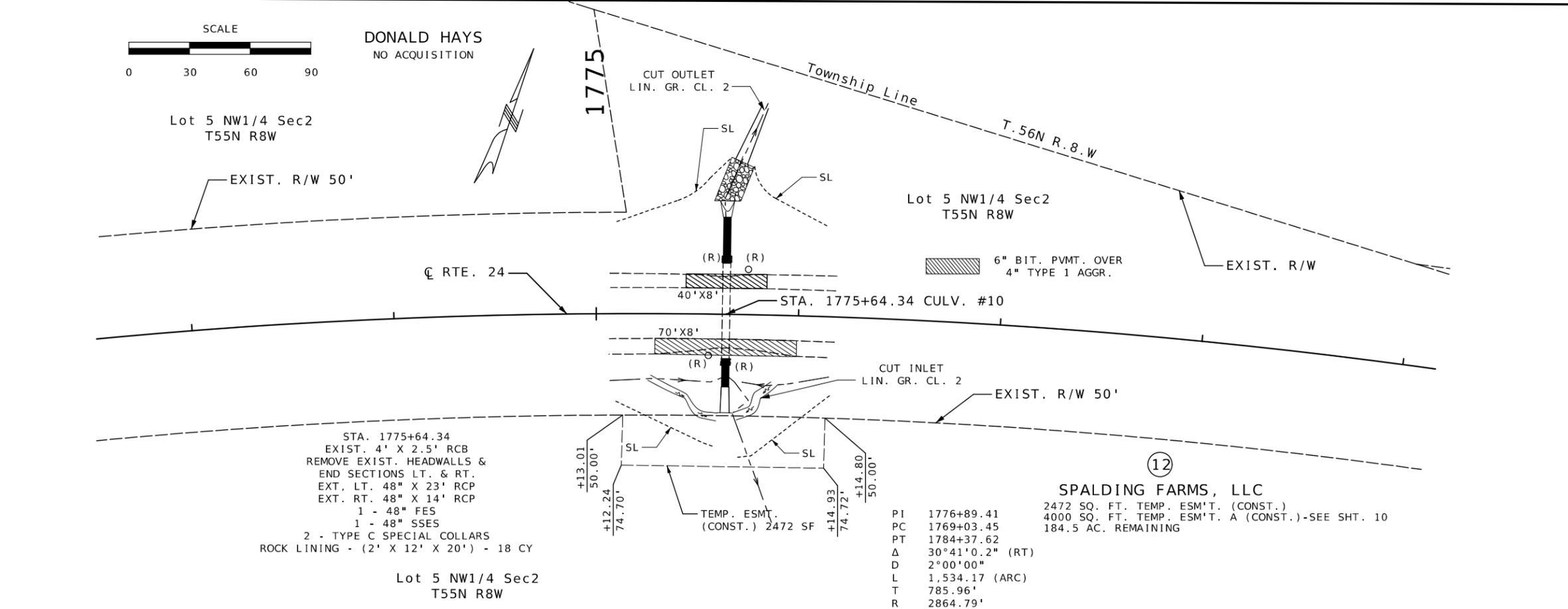
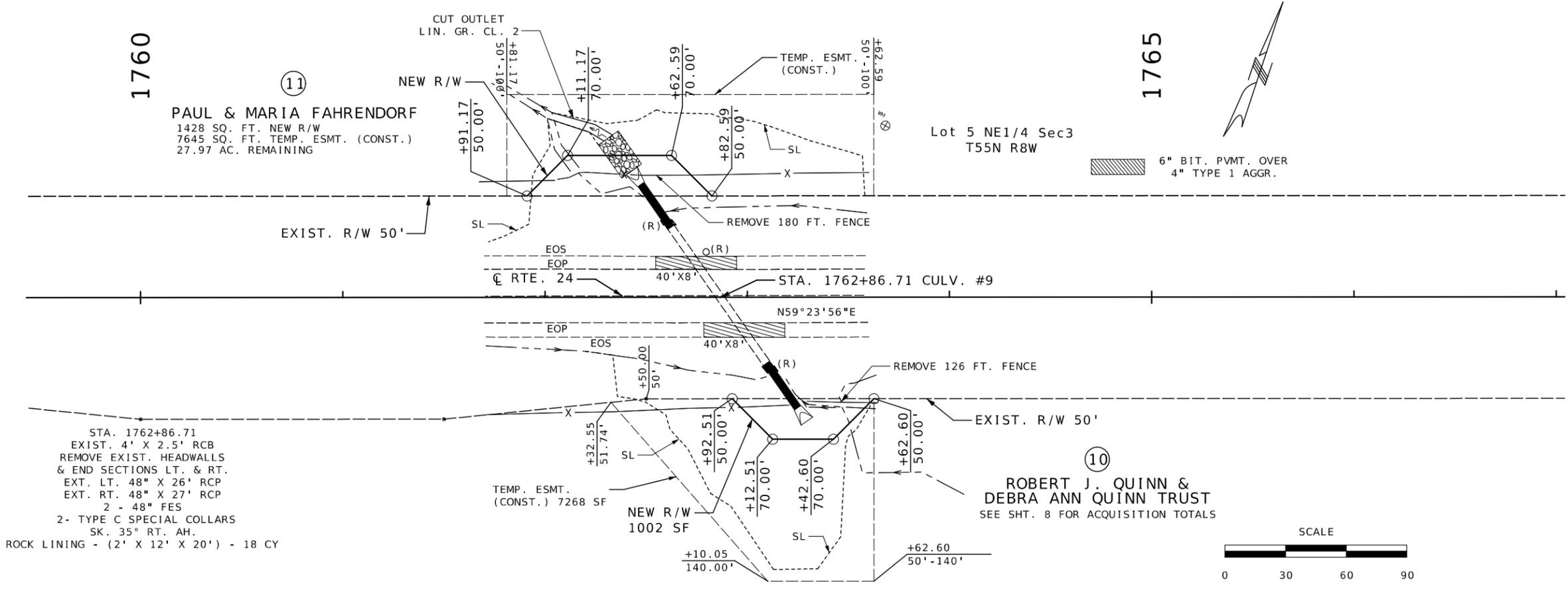
COUNTY MONROE
JOB NO. JNE0047
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
1/7/2026

ROUTE **24** STATE **MO**

DISTRICT **NE** SHEET NO. **9**

COUNTY **MONROE**

JOB NO. **JNE0047**

CONTRACT ID.

PROJECT NO.

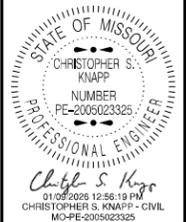
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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



DATE PREPARED
1/7/2026

ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
NE	10

COUNTY
MONROE

JOB NO.
JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

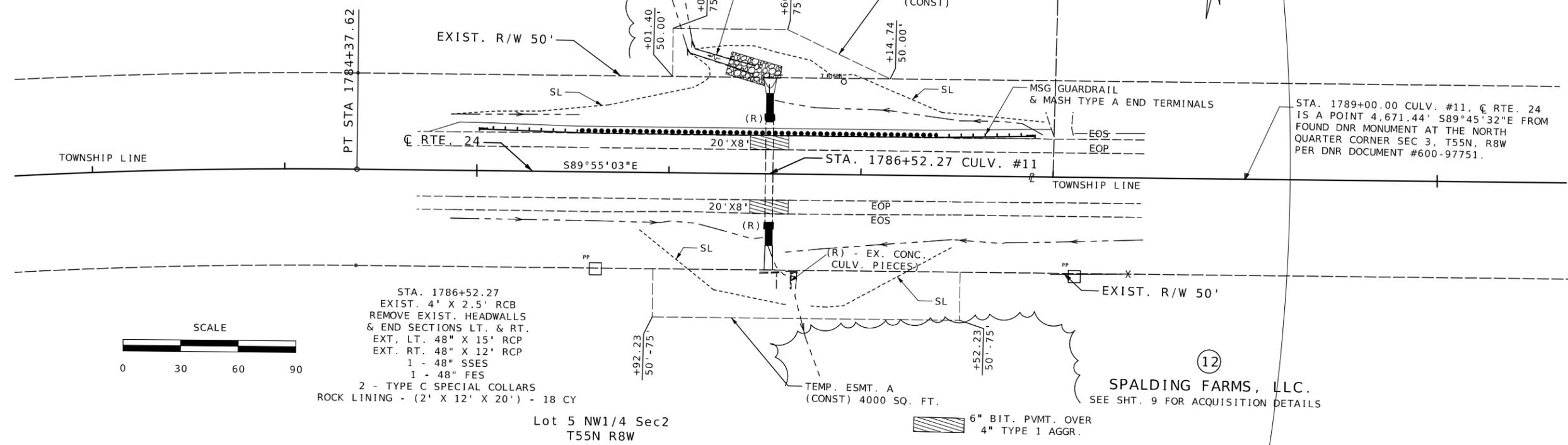
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET 7 OF 13

13
MITCHELL & GEORGIANNA LEHENBAUER
2161 SQ. FT. TEMP. ESM'T. (CONST.)
122.04 AC. REMAINING

SE1/4 SW1/4 Sec35
T56N R8W

CUT OUTLET
LIN. GR. CL. 2



STA. 1786+52.27
EXIST. 4' X 2.5' RCB
REMOVE EXIST. HEADWALLS
& END SECTIONS LT. & RT.
EXT. LT. 48" X 15' RCP
EXT. RT. 48" X 12' RCP
1 - 48" SSES
1 - 48" FES
2 - TYPE C SPECIAL COLLARS
ROCK LINING - (2' X 12' X 20') - 18 CY

Lot 5 NW1/4 Sec2
T55N R8W

12
SPALDING FARMS, LLC.
SEE SHT. 9 FOR ACQUISITION DETAILS

SW1/4 SW1/4 Sec36
T56N R8W

CUT INLET
LIN. GR. CL. 2

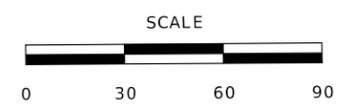
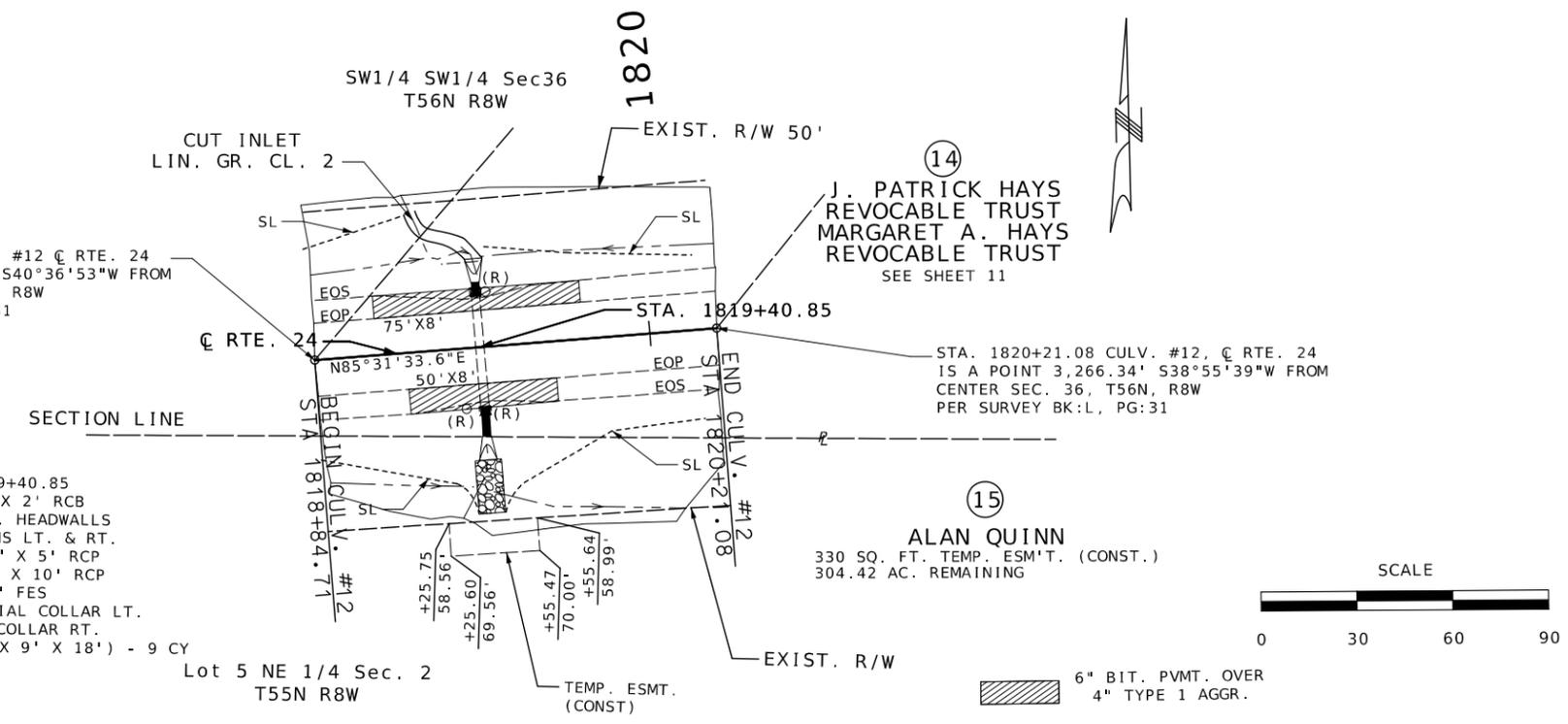
14
J. PATRICK HAYS
REVOCABLE TRUST
MARGARET A. HAYS
REVOCABLE TRUST
SEE SHEET 11

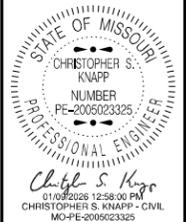
STA. 1818+84.71 CULV. #12 C RTE. 24
IS A POINT 3,361.61' S40°36'53"W FROM
CENTER SEC. 36, T56N, R8W
PER SURVEY BK:L, PG:31

STA. 1819+40.85
EXIST. 3' X 2' RCB
REMOVE EXIST. HEADWALLS
& END SECTIONS LT. & RT.
EXT. LT. 36" X 5' RCP
EXT. RT. 36" X 10' RCP
2 - 36" FES
1 - TYPE C SPECIAL COLLAR LT.
1 - TYPE C COLLAR RT.
ROCK LINING - (1.5' X 9' X 18') - 9 CY

Lot 5 NE 1/4 Sec. 2
T55N R8W

15
ALAN QUINN
330 SQ. FT. TEMP. ESM'T. (CONST.)
304.42 AC. REMAINING





DATE PREPARED
1/7/2026

ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
NE	13

COUNTY
MONROE

JOB NO.
JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

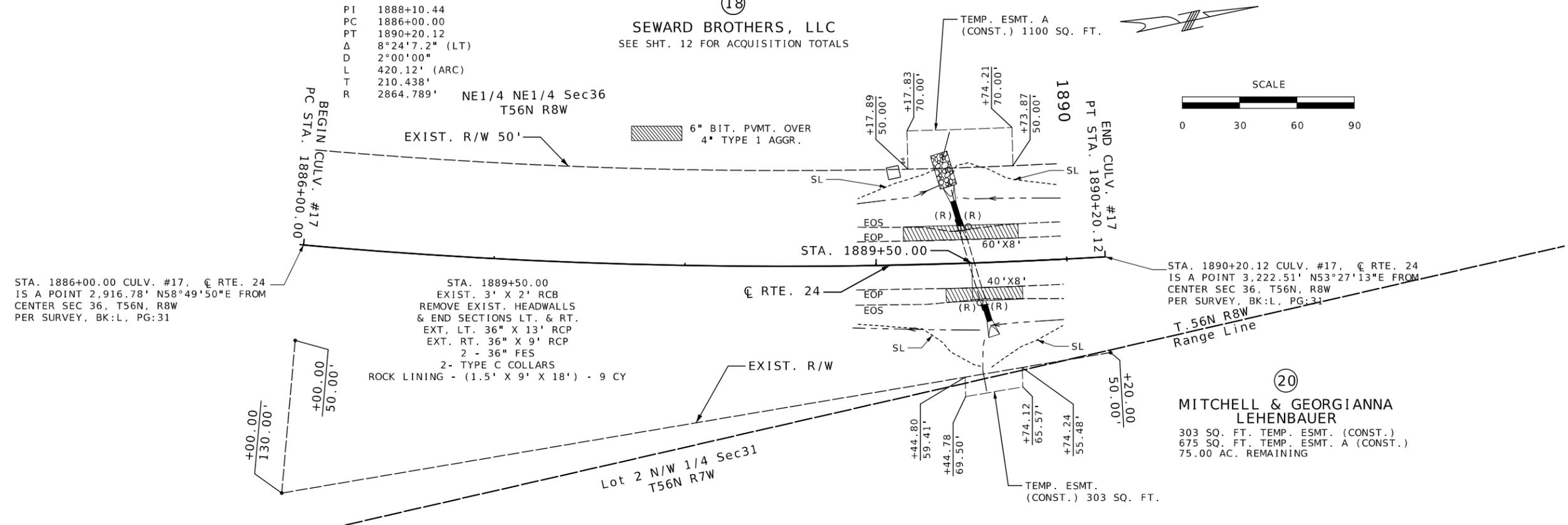
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET 10 OF 13

18
SEWARD BROTHERS, LLC
SEE SHT. 12 FOR ACQUISITION TOTALS

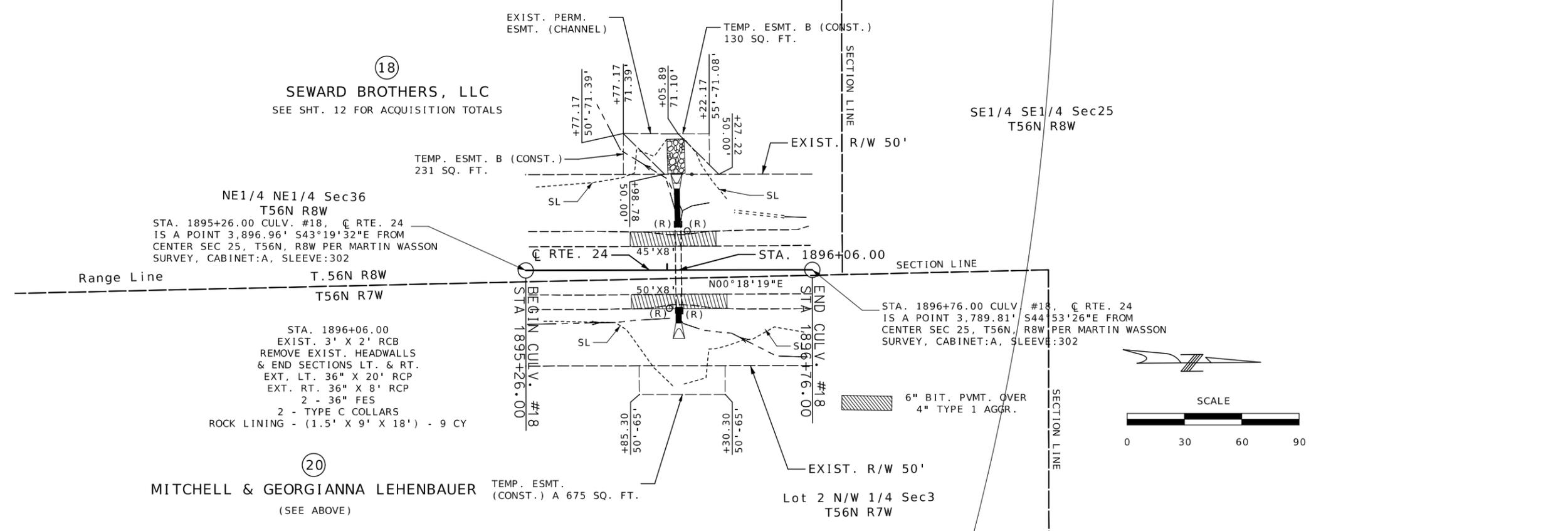
PI 1888+10.44
PC 1886+00.00
PT 1890+20.12
Δ 8°24'7.2" (LT)
D 2°00'00"
L 420.12' (ARC)
T 210.438'
R 2864.789'

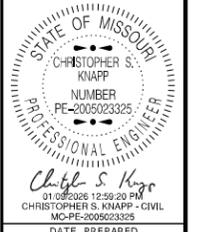
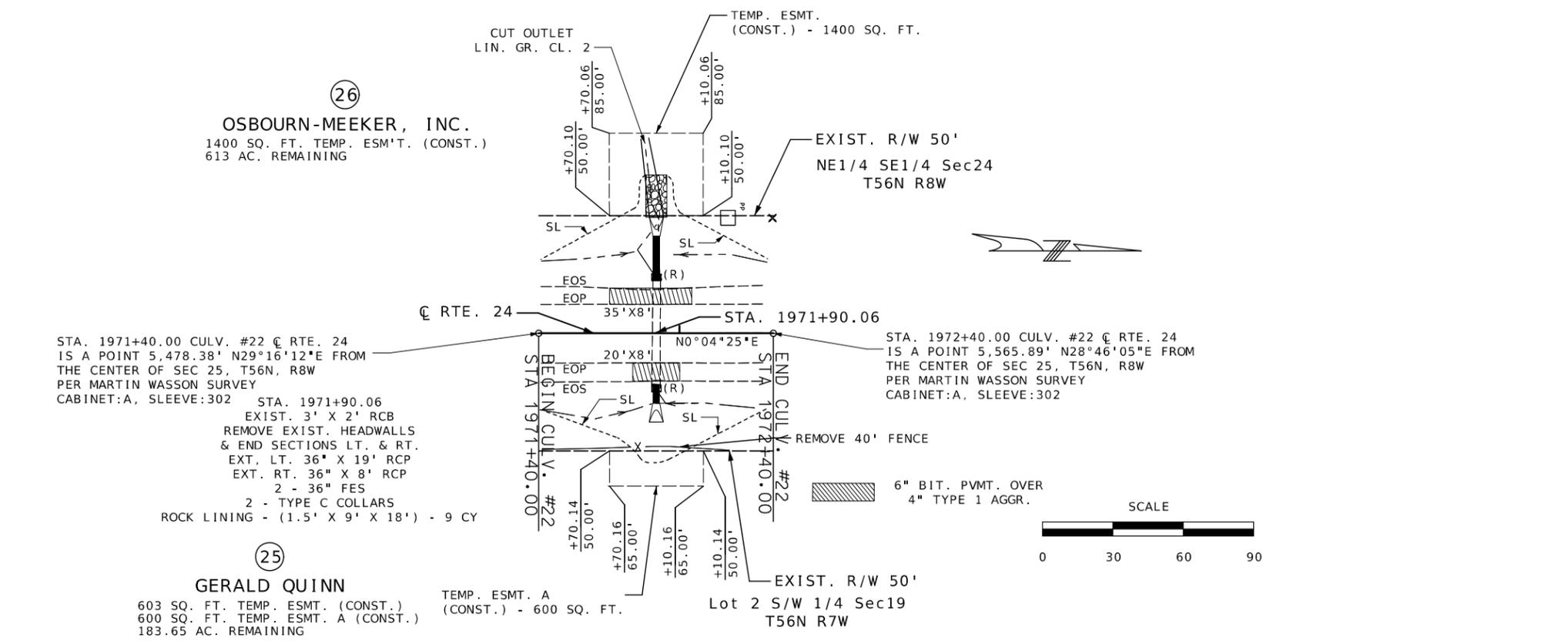
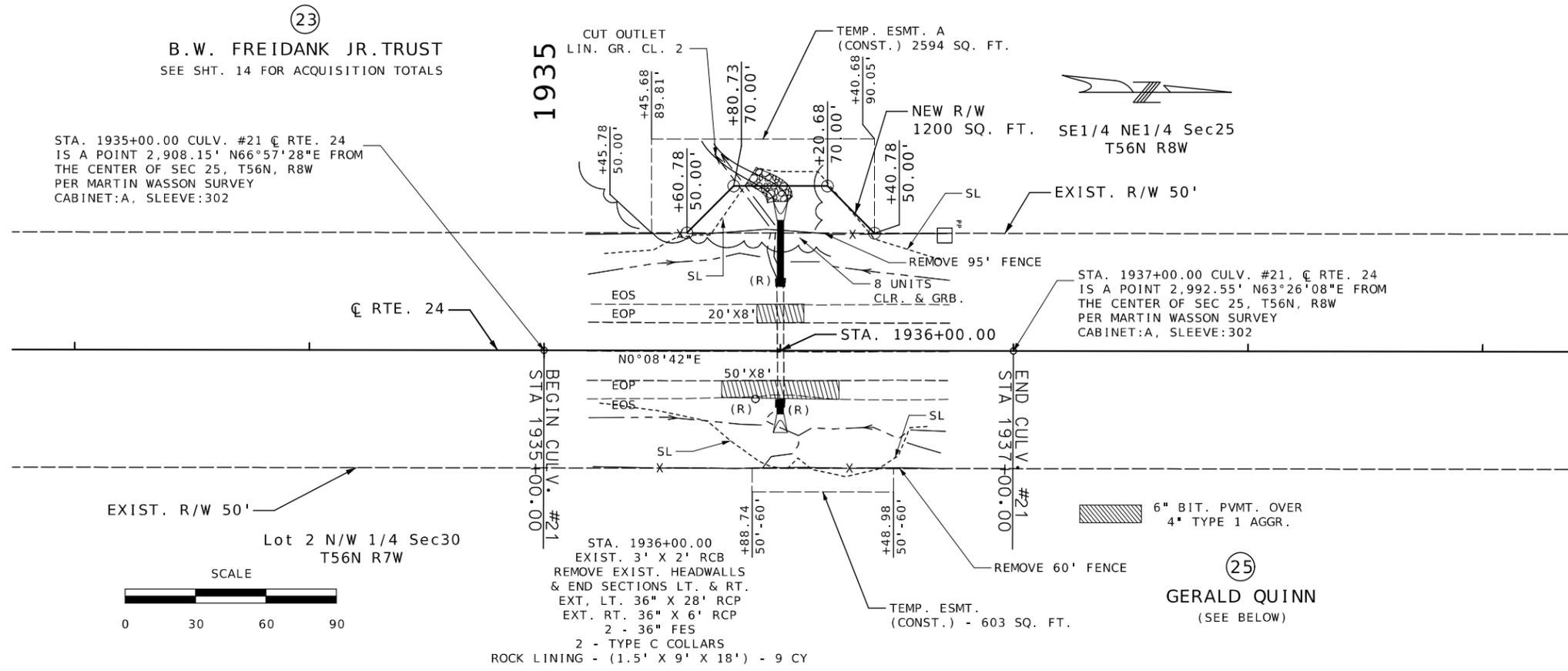
NE1/4 NE1/4 Sec36
T56N R8W



18
SEWARD BROTHERS, LLC
SEE SHT. 12 FOR ACQUISITION TOTALS

NE1/4 NE1/4 Sec36
T56N R8W
STA. 1895+26.00 CULV. #18, C RTE. 24 IS A POINT 3,896.96' S43°19'32"E FROM CENTER SEC 25, T56N, R8W PER MARTIN WASSON SURVEY, CABINET:A, SLEEVE:302





DATE PREPARED
 1/7/2026

ROUTE 24 STATE MO

DISTRICT NE SHEET NO. 15

COUNTY MONROE

JOB NO. JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

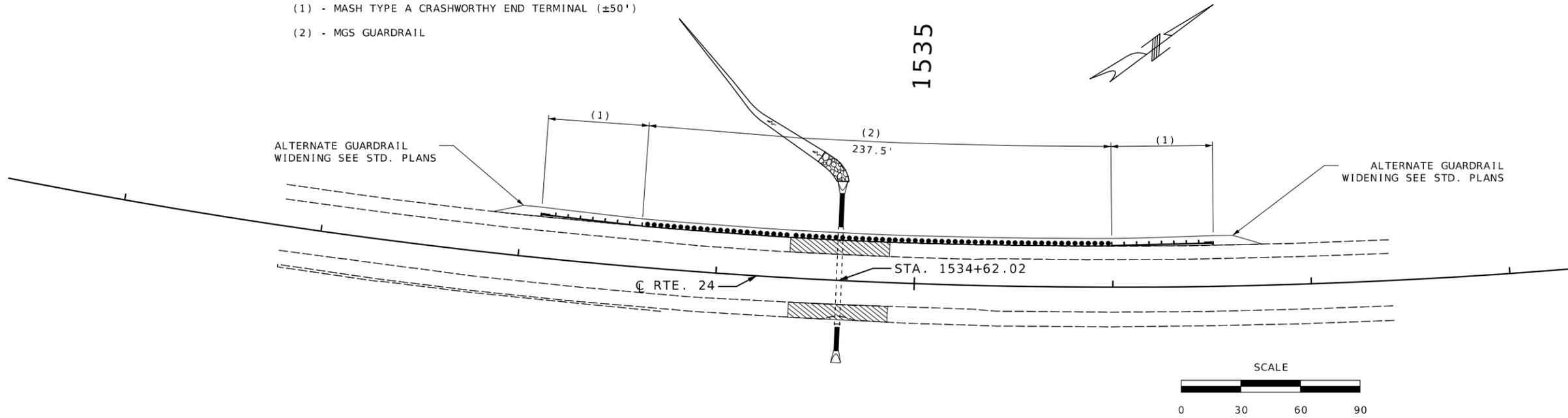
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 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET 12 OF 13

GUARDRAIL

- (1) - MASH TYPE A CRASHWORTHY END TERMINAL ($\pm 50'$)
- (2) - MGS GUARDRAIL

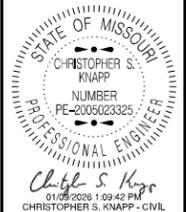
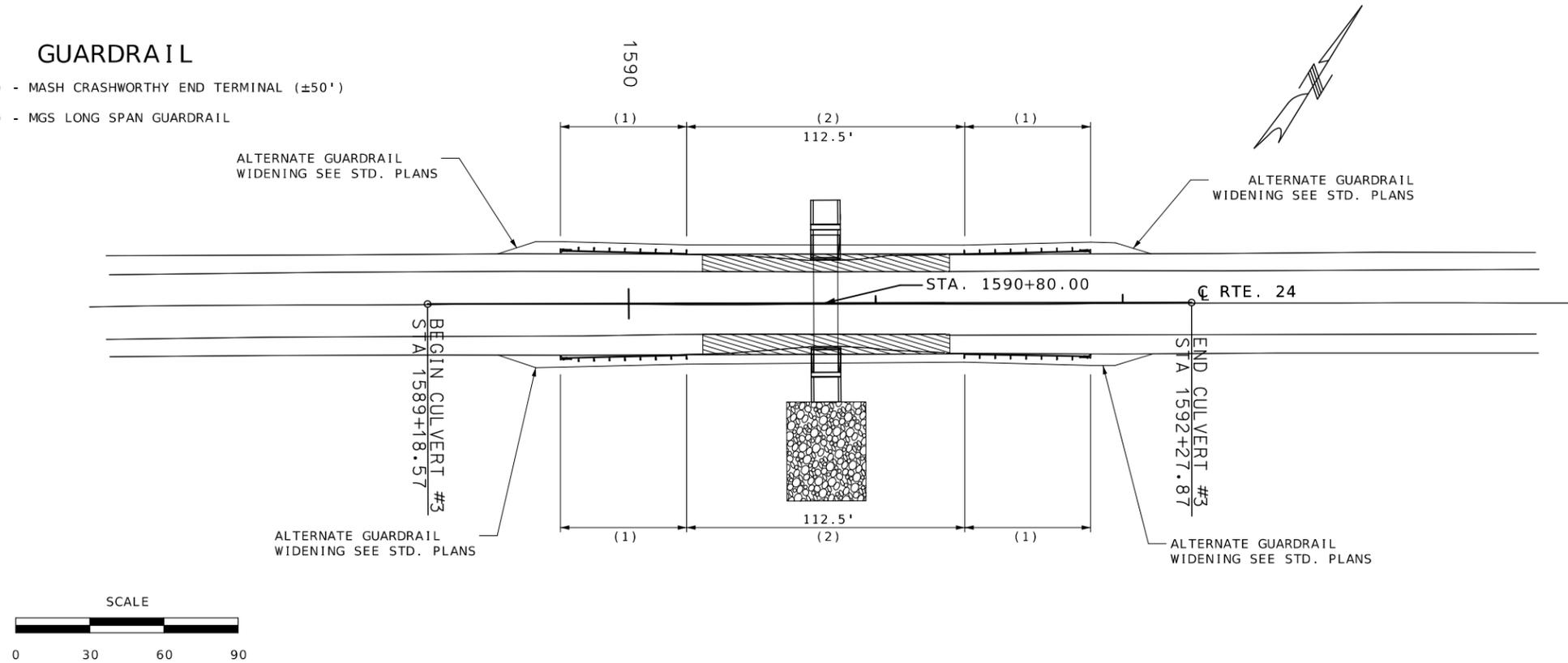
1535



GUARDRAIL

- (1) - MASH CRASHWORTHY END TERMINAL ($\pm 50'$)
- (2) - MGS LONG SPAN GUARDRAIL

1590



DATE PREPARED
1/8/2026

ROUTE 24	STATE MO
DISTRICT NE	SHEET NO. 19

COUNTY
MONROE

JOB NO.
JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

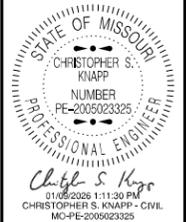
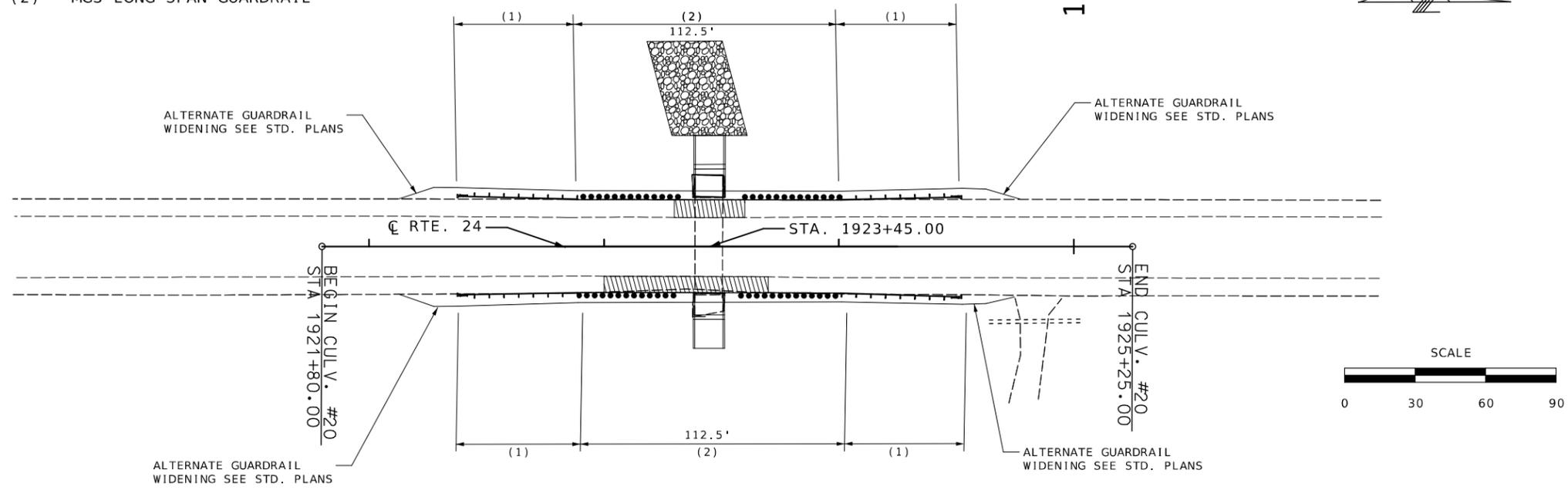
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

GUARDRAIL LAYOUT
SHEET 1 OF 6

GUARDRAIL

- (1) - MASH TYPE A CRASHWORTHY END TERMINAL ($\pm 50'$)
- (2) - MGS LONG SPAN GUARDRAIL



DATE PREPARED
1/7/2026

ROUTE 24	STATE MO
DISTRICT NE	SHEET NO. 23

COUNTY
MONROE

JOB NO.
JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

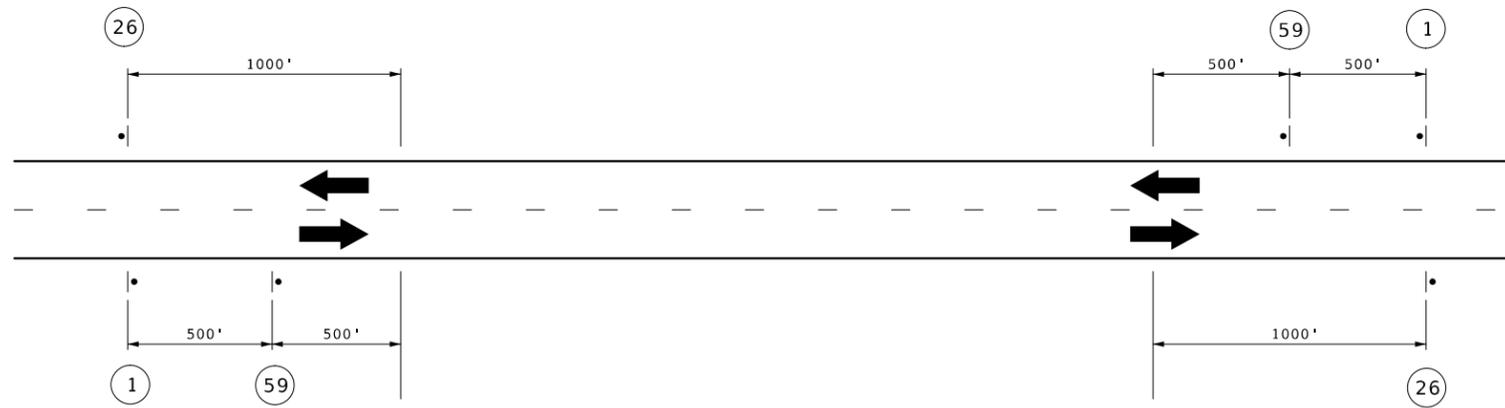
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

GUARDRAIL LAYOUT
SHEET 5 OF 6



BEGINNING OF PROJECT LIMITS; OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

END OF PROJECT LIMITS; END OF WORK ZONE TERMINATION AREA, IF LOCATED BEYOND END OF PROJECT; OR LAST WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

ROAD WORK
NEXT 8 MILES

GO20-1
①

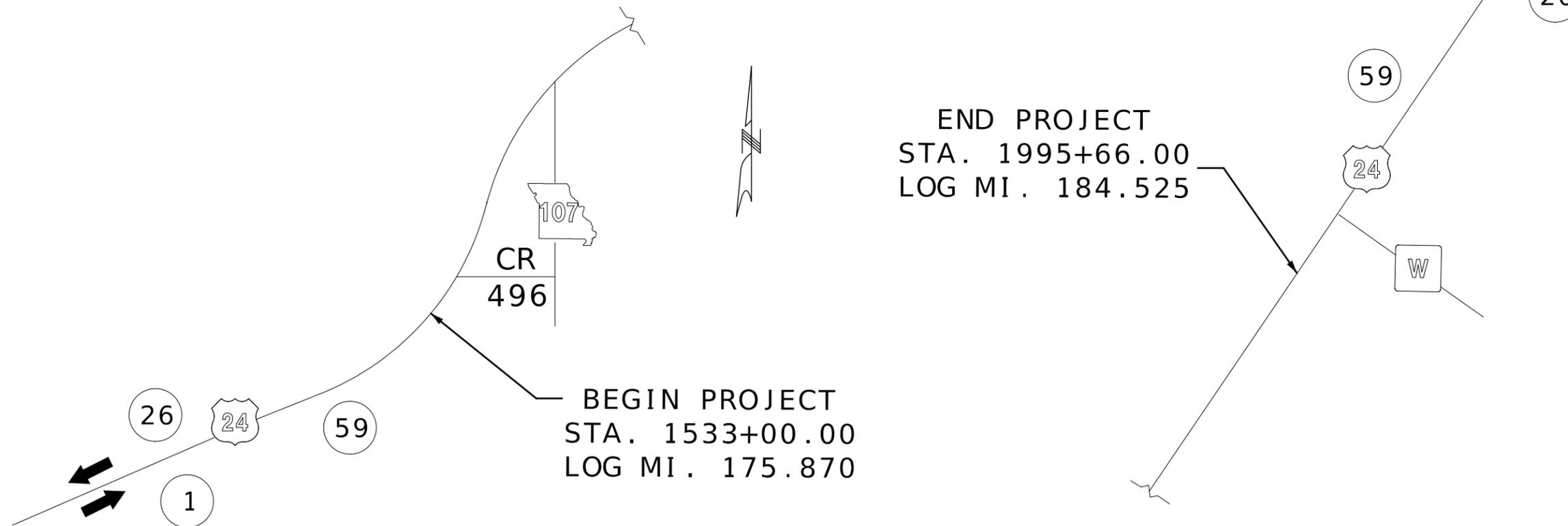
END ROAD WORK

GO20-2
②⑥

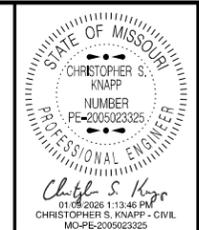
WORK ZONE
NO PHONE ZONE

CONST-8
⑤⑨

NOT TO SCALE



BEGIN/END OF PROJECT SIGNING
UNDIVIDED HIGHWAY



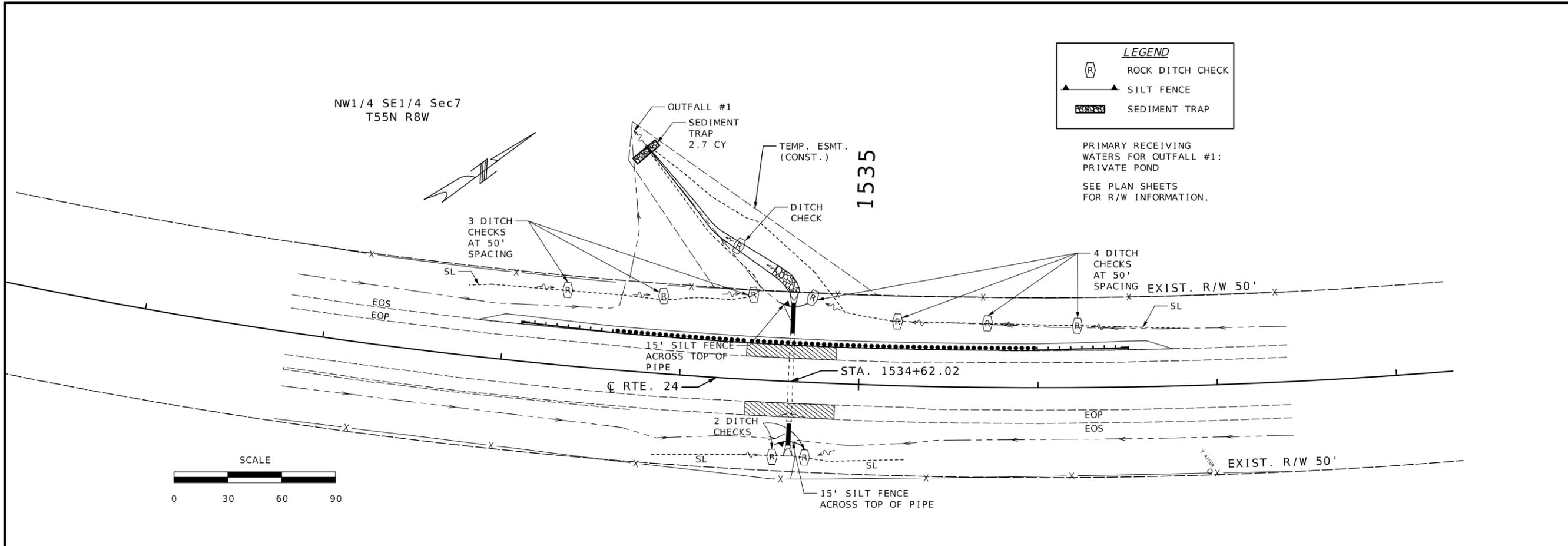
DATE PREPARED
1/7/2026
ROUTE 24 STATE MO
DISTRICT NE SHEET NO. 25
COUNTY MONROE
JOB NO. JNE0047
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 1 OF 8



LEGEND

- (R) ROCK DITCH CHECK
- ▲ SILT FENCE
- ▨ SEDIMENT TRAP

PRIMARY RECEIVING WATERS FOR OUTFALL #1: PRIVATE POND
SEE PLAN SHEETS FOR R/W INFORMATION.

GENERAL NOTES:

CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE EROSION CONTROL DEVICES IN ACCORDANCE WITH MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 806. ALL WORK TO BE IN ACCORDANCE WITH THE MISSOURI STATE OPERATING PERMIT FOR LAND DISTURBANCE AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). REFER TO MODOT ENGINEERING POLICY GUIDE (EPG).

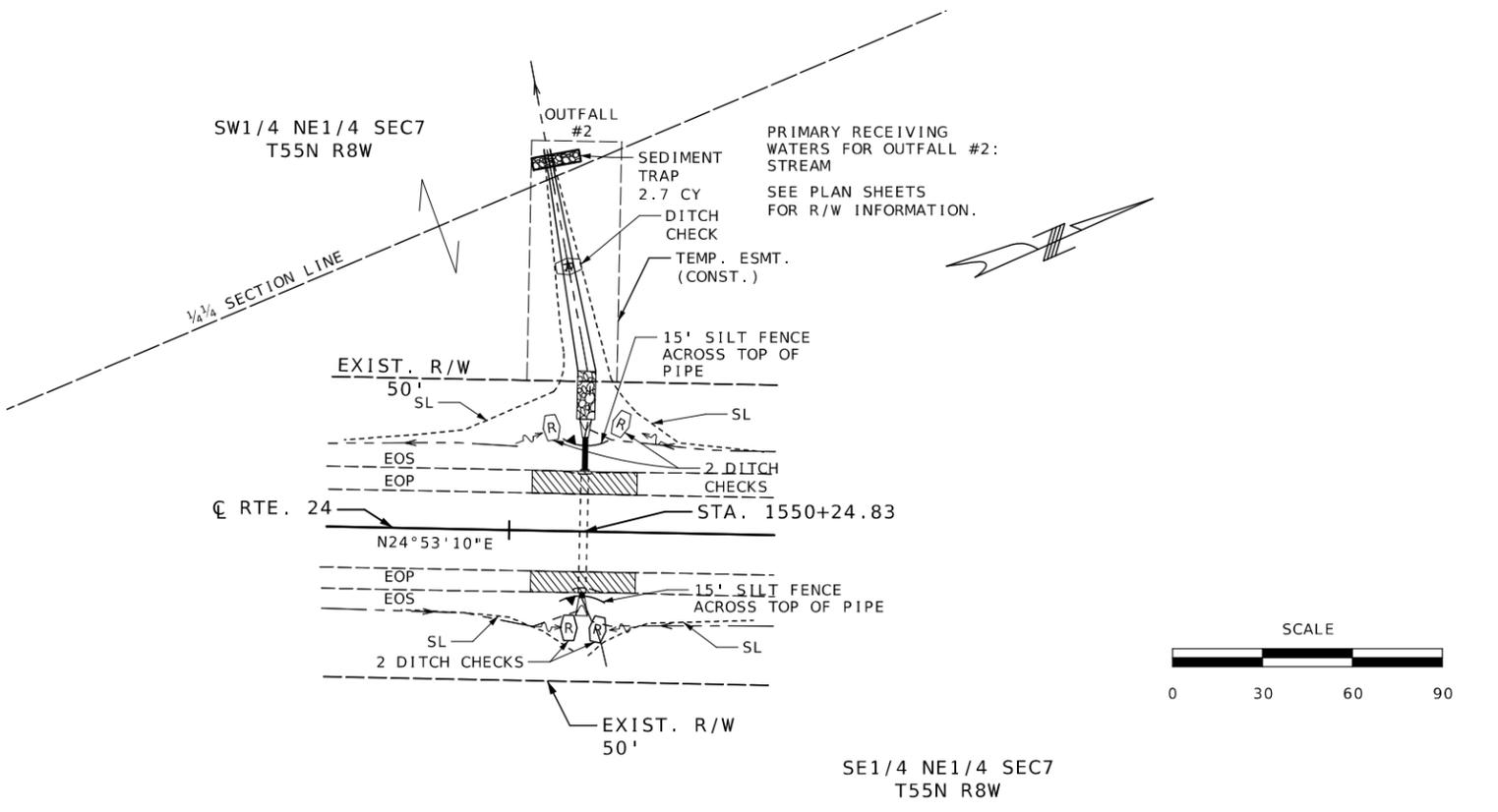
INSTALLATION OF TEMPORARY EROSION CONTROL MEASURES SHALL COINCIDE WITH CLEARING AND GRUBBING OPERATIONS AND BE INSTALLED PRIOR TO ANY GRADING OPERATION.

LOCATE DEVICES AS SHOWN OR ADJUST TO SITE CONDITIONS AS DIRECTED BY THE ENGINEER.

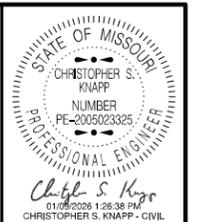
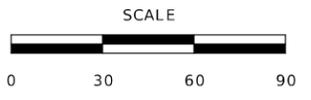
IF SITE CONDITIONS DUE TO CONTRACTOR OPERATIONS DIFFER FROM THE TEMPORARY EROSION CONTROL PLAN, ADDITIONAL BEST MANAGEMENT PRACTICES (BMP) SHALL BE APPLIED AS APPROVED BY THE ENGINEER. ADDITIONAL TEMPORARY MEASURES SHALL BE USED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION WHICH WERE NOT FORESEEN DURING THE DESIGN STAGE.

ALL PERMANENT EROSION CONTROL FEATURES SHALL BE INCORPORATED INTO THE PROJECT AT THE EARLIEST PRACTICAL TIME.

FIELD NOTES:



PRIMARY RECEIVING WATERS FOR OUTFALL #2: STREAM
SEE PLAN SHEETS FOR R/W INFORMATION.



DATE PREPARED: 1/7/2026

ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
NE	33

COUNTY: MONROE
JOB NO.: JNE0047
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

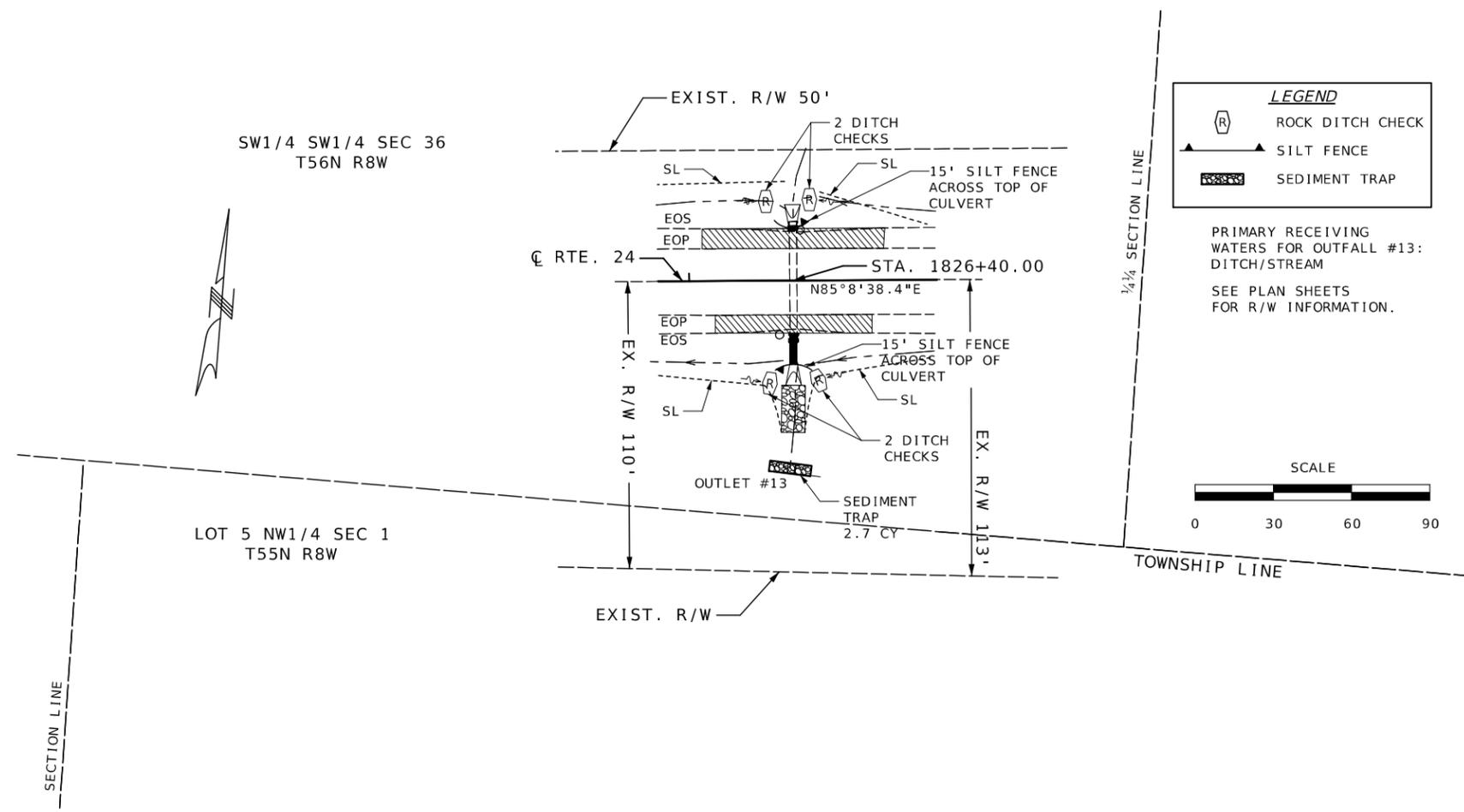
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TEMPORARY EROSION CONTROL SHEET 1 OF 12

SE1/4 NE1/4 SEC7 T55N R8W

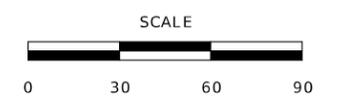


LEGEND

- ROCK DITCH CHECK
- SILT FENCE
- SEDIMENT TRAP

PRIMARY RECEIVING WATERS FOR OUTFALL #13: DITCH/STREAM

SEE PLAN SHEETS FOR R/W INFORMATION.



GENERAL NOTES:

CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE EROSION CONTROL DEVICES IN ACCORDANCE WITH MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 806. ALL WORK TO BE IN ACCORDANCE WITH THE MISSOURI STATE OPERATING PERMIT FOR LAND DISTURBANCE AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). REFER TO MODOT ENGINEERING POLICY GUIDE (EPG).

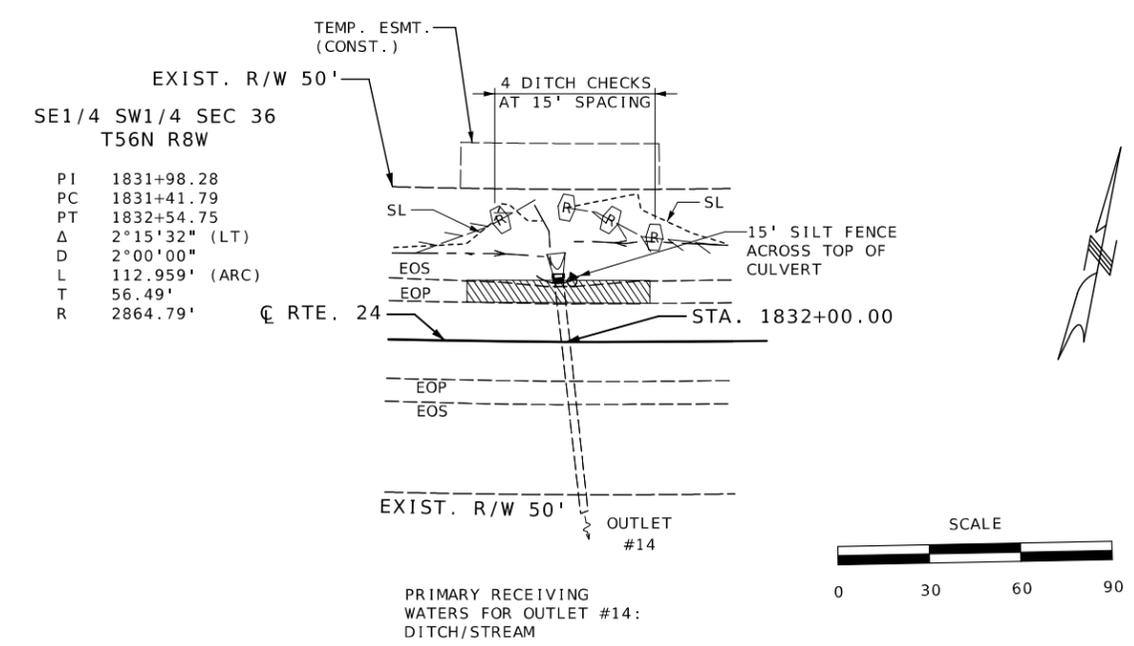
INSTALLATION OF TEMPORARY EROSION CONTROL MEASURES SHALL COINCIDE WITH CLEARING AND GRUBBING OPERATIONS AND BE INSTALLED PRIOR TO ANY GRADING OPERATION.

LOCATE DEVICES AS SHOWN OR ADJUST TO SITE CONDITIONS AS DIRECTED BY THE ENGINEER.

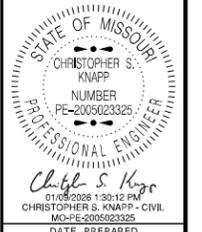
IF SITE CONDITIONS DUE TO CONTRACTOR OPERATIONS DIFFER FROM THE TEMPORARY EROSION CONTROL PLAN, ADDITIONAL BEST MANAGEMENT PRACTICES (BMP) SHALL BE APPLIED AS APPROVED BY THE ENGINEER. ADDITIONAL TEMPORARY MEASURES SHALL BE USED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION WHICH WERE NOT FORESEEN DURING THE DESIGN STAGE.

ALL PERMANENT EROSION CONTROL FEATURES SHALL BE INCORPORATED INTO THE PROJECT AT THE EARLIEST PRACTICAL TIME.

FIELD NOTES:



- PI 1831+98.28
- PC 1831+41.79
- PT 1832+54.75
- Δ 2°15'32" (LT)
- D 2°00'00"
- L 112.959' (ARC)
- T 56.49'
- R 2864.79'



DATE PREPARED: 1/7/2026

ROUTE	STATE
24	MO
DISTRICT	SHEET NO.
NE	39
COUNTY	
MONROE	
JOB NO.	
JNE0047	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

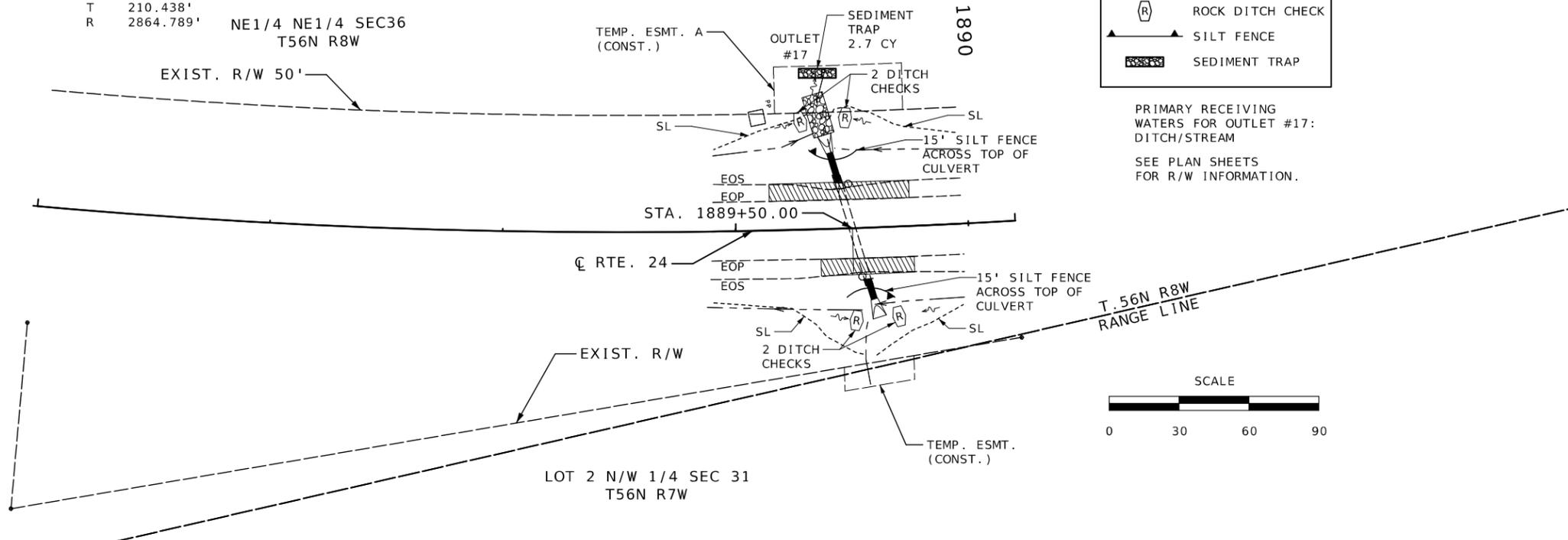
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TEMPORARY EROSION CONTROL SHEET 7 OF 12

PI 1888+10.44
 PC 1886+00.00
 PT 1890+20.12
 Δ 8°24'7.2" (LT)
 D 2°00'00"
 L 420.12' (ARC)
 T 210.438'
 R 2864.789' NE1/4 NE1/4 SEC36
 T56N R8W

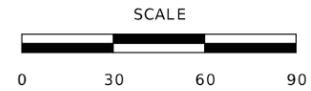


LEGEND

- ROCK DITCH CHECK
- SILT FENCE
- SEDIMENT TRAP

PRIMARY RECEIVING
 WATERS FOR OUTLET #17:
 DITCH/STREAM

 SEE PLAN SHEETS
 FOR R/W INFORMATION.



GENERAL NOTES:

CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE EROSION CONTROL DEVICES IN ACCORDANCE WITH MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 806. ALL WORK TO BE IN ACCORDANCE WITH THE MISSOURI STATE OPERATING PERMIT FOR LAND DISTURBANCE AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). REFER TO MODOT ENGINEERING POLICY GUIDE (EPG).

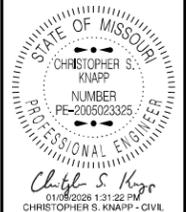
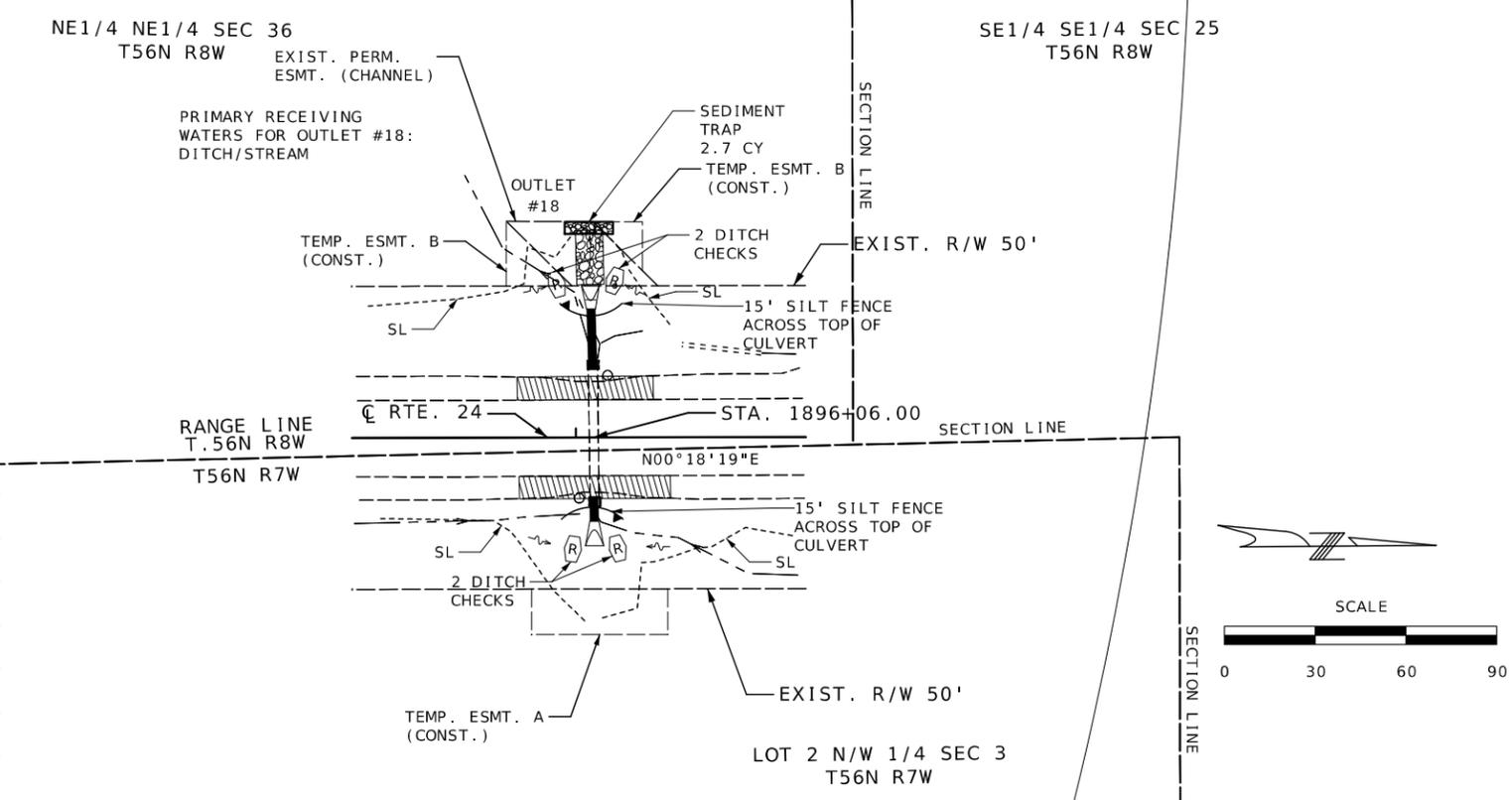
INSTALLATION OF TEMPORARY EROSION CONTROL MEASURES SHALL COINCIDE WITH CLEARING AND GRUBBING OPERATIONS AND BE INSTALLED PRIOR TO ANY GRADING OPERATION.

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FIELD NOTES:



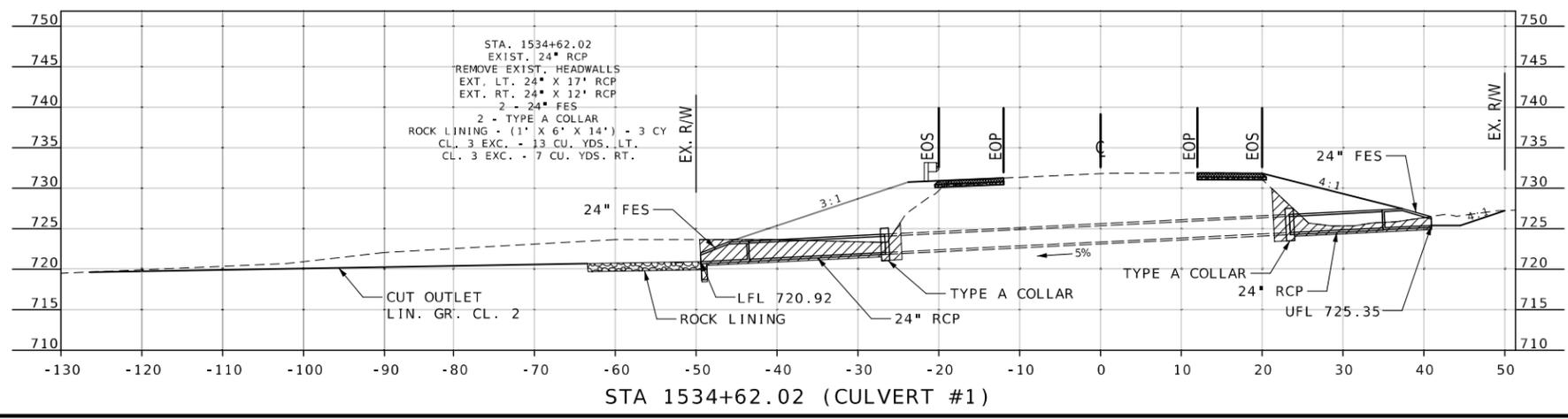
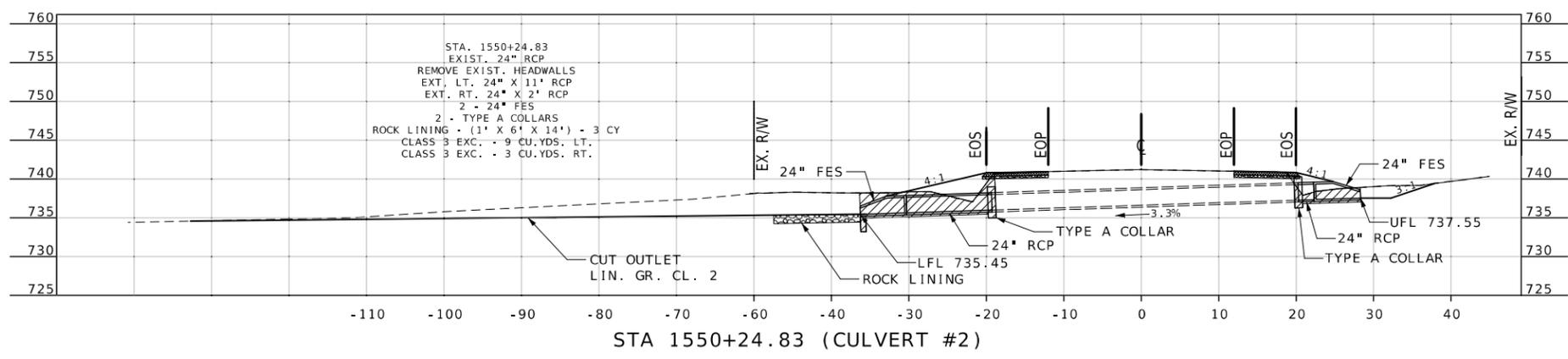
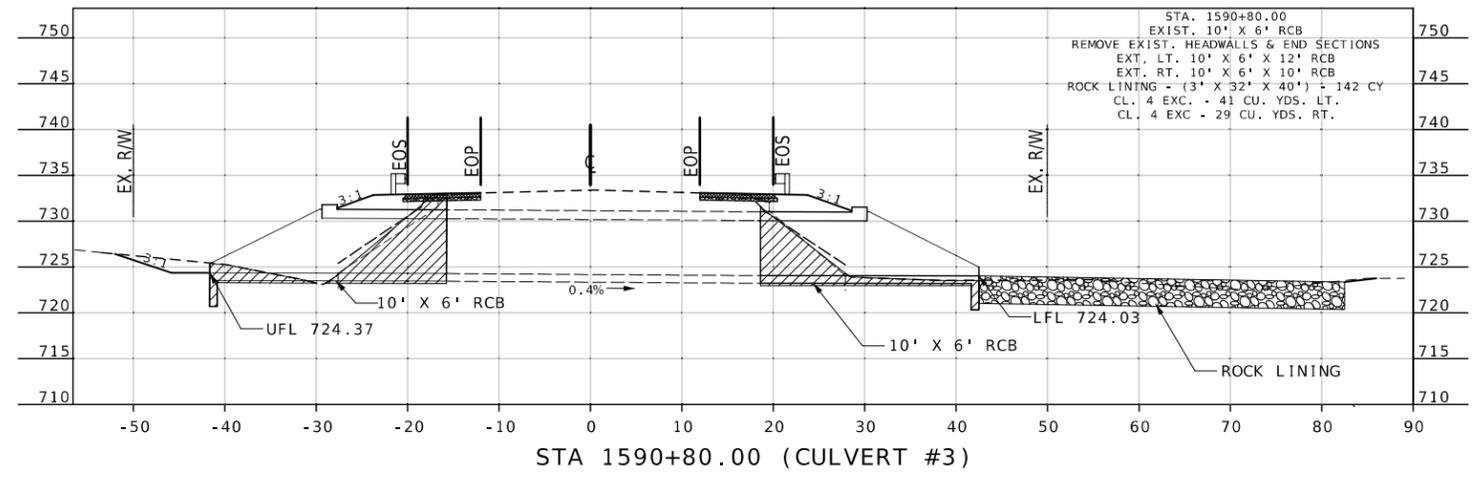
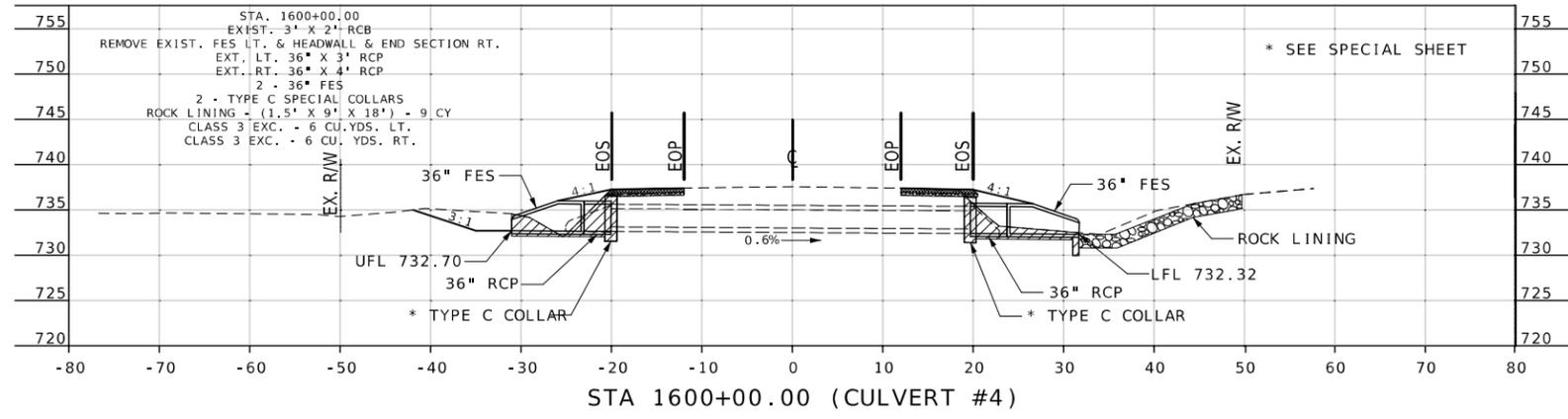
DATE PREPARED
 1/7/2026
 ROUTE 24 STATE MO
 DISTRICT NE SHEET NO. 41
 COUNTY MONROE
 JOB NO. JNE0047
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

TEMPORARY EROSION CONTROL
 SHEET 9 OF 12



DATE PREPARED
 1/8/2026

ROUTE 24 STATE MO
 DISTRICT NE SHEET NO. 45
 COUNTY MONROE
 JOB NO. JNE0047
 CONTRACT ID.

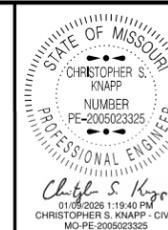
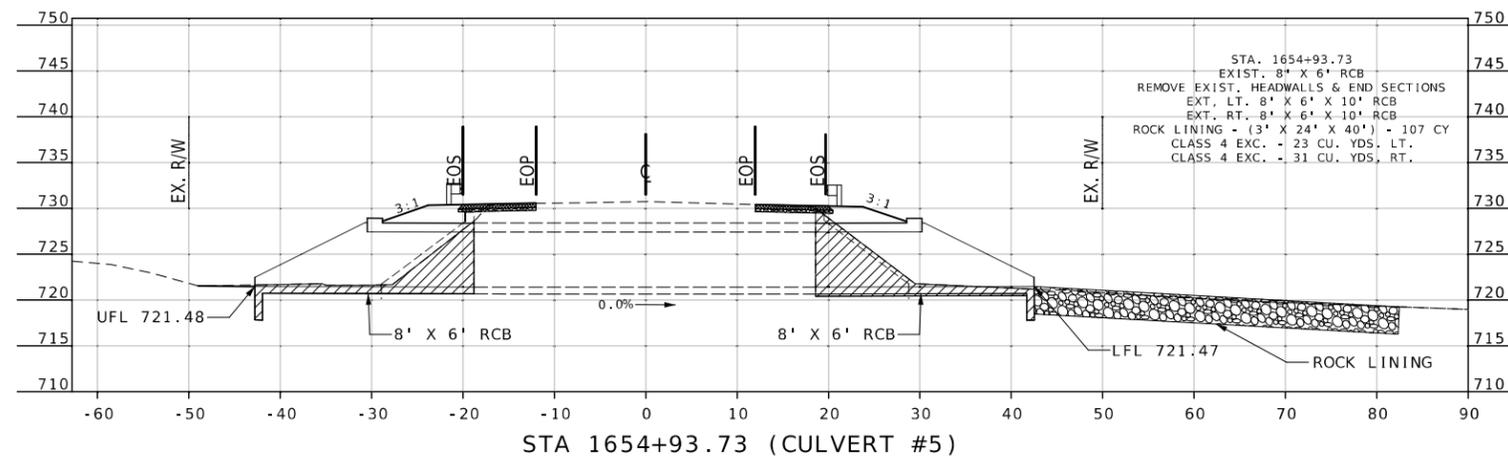
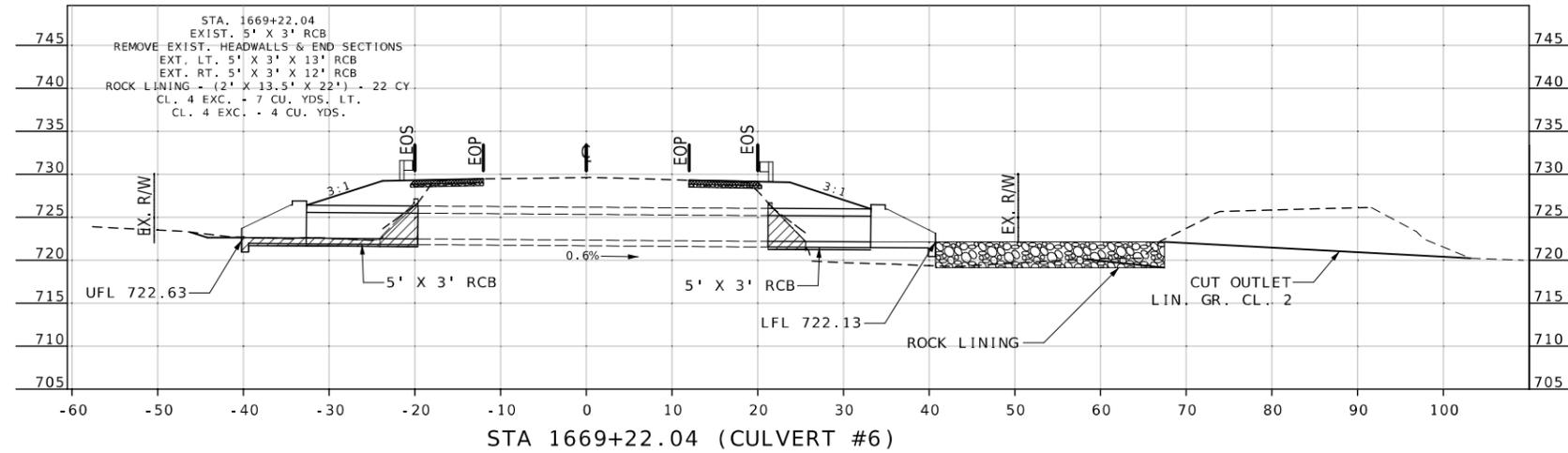
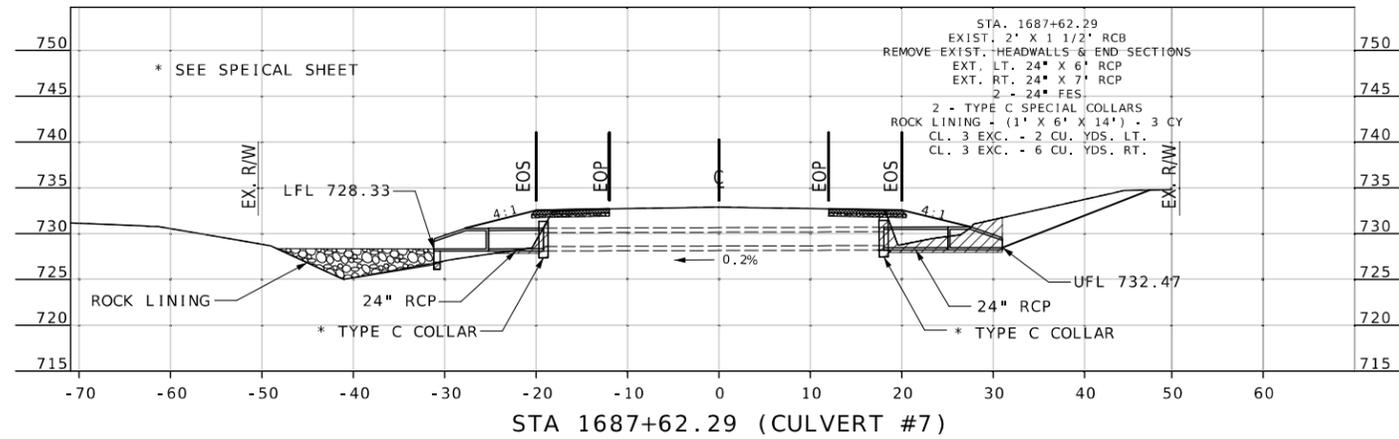
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CULVERT SECTION
 SHEET 1 OF 7



DATE PREPARED
 1/8/2026

ROUTE 24 STATE MO
 DISTRICT NE SHEET NO. 46

COUNTY MONROE
 JOB NO. JNE0047
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

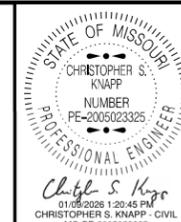
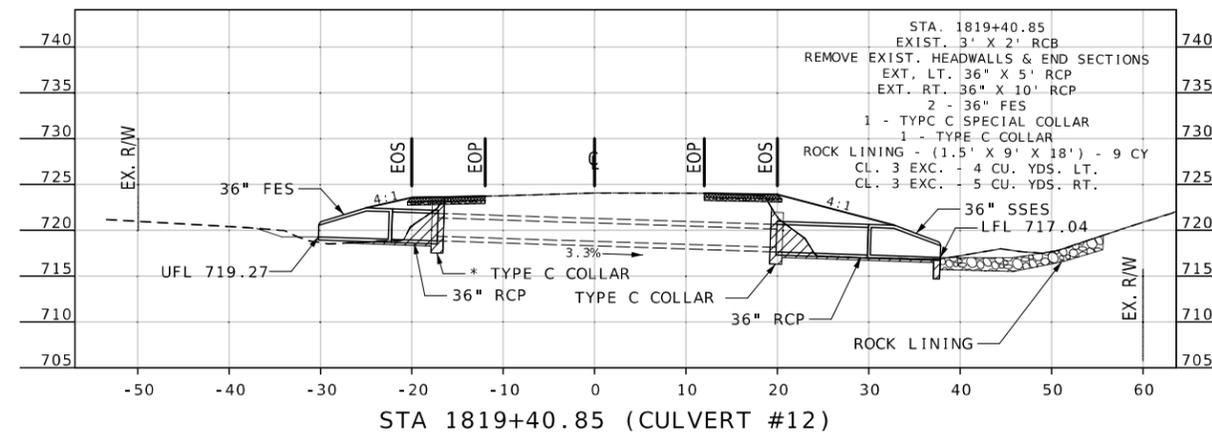
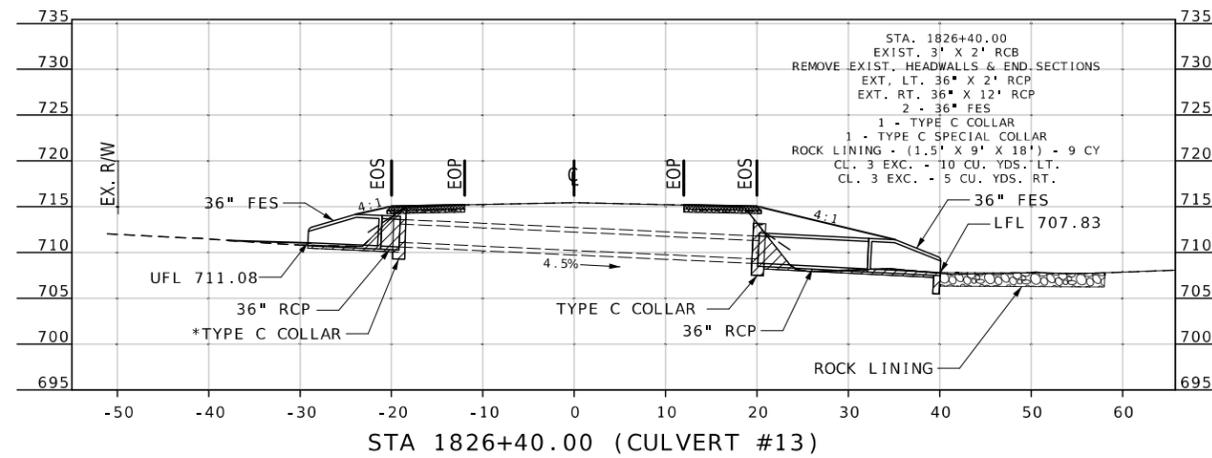
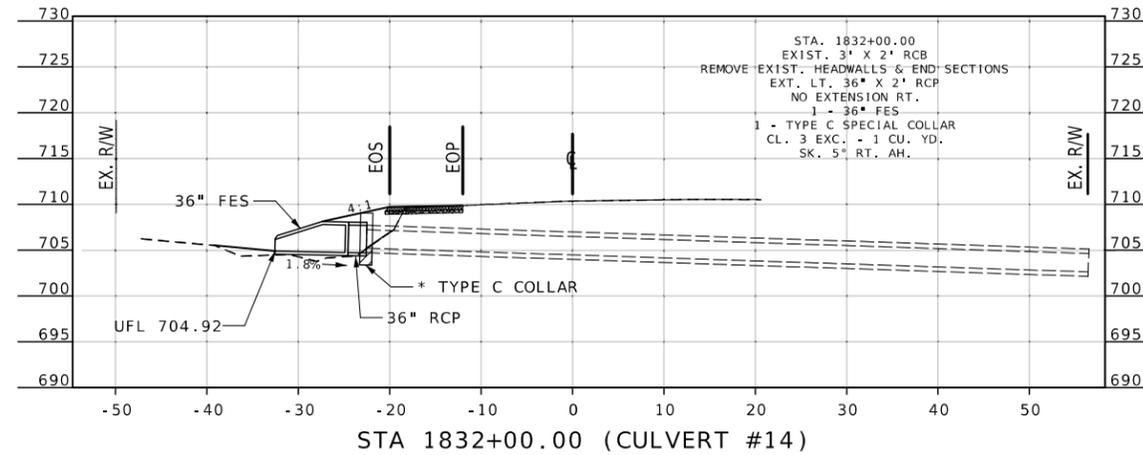
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CULVERT SECTIONS
 SHEET 2 OF 7

*SEE SPECIAL SHEET



DATE PREPARED
1/8/2026

ROUTE 24 STATE MO

DISTRICT NE SHEET NO. 48

COUNTY MONROE

JOB NO. JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CULVERT SECTIONS
SHEET 4 OF 7

General Notes:

Design Specifications:
2010 AASHTO LRFD Bridge Design Specifications and 2010 Interim Revisions

Design Loading:
Vehicular = HL-93 minus lane load (new construction only), Earth = 120 lb/cf
Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi

Standard Plans:
606.70, 703.37, 703.38, 703.42, 703.46, 703.47

Miscellaneous:
MoDOT Construction personnel will indicate the type of box culvert constructed:
 Precast Concrete Box used
 Cast-in-Place Concrete Box used

When alternate precast concrete box sections are used, the minimum distance from inside face of headwalls to precast sections measured along the shortest wall shall be 3 feet. Reinforcement and dimensions for wings and headwalls shall be in accordance with Missouri Standard Plans.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless noted otherwise.

The area exposed by removal of concrete and not covered with new concrete shall be coated with an approved bituminous paint.

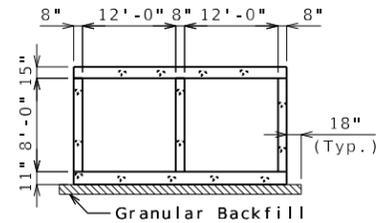
Bottom of top slab, top of bottom slab and inside faces of walls shall be built flush with existing structure.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering material.

Channel bottom shall be graded within the right of way for transition of channel bed to culvert openings. Channel banks shall be tapered to match culvert openings. (Roadway Item)

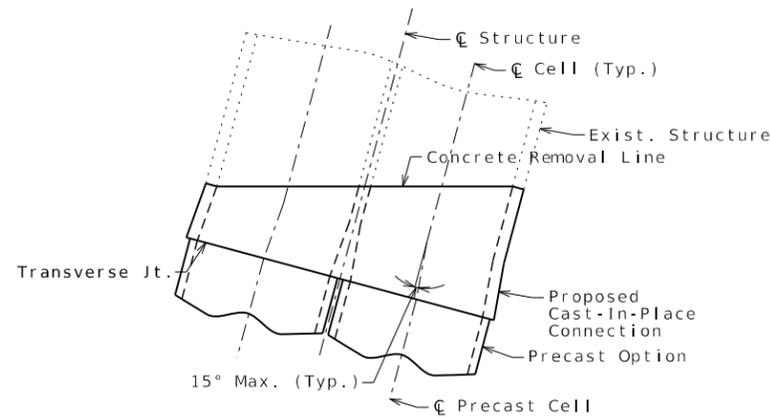
Traffic Handling:
Traffic to be maintained on existing structure during construction. See roadway plans for traffic control.



SECTION THRU BOX
(Normal to C Structure)
Keyed construction joint not shown for clarity.

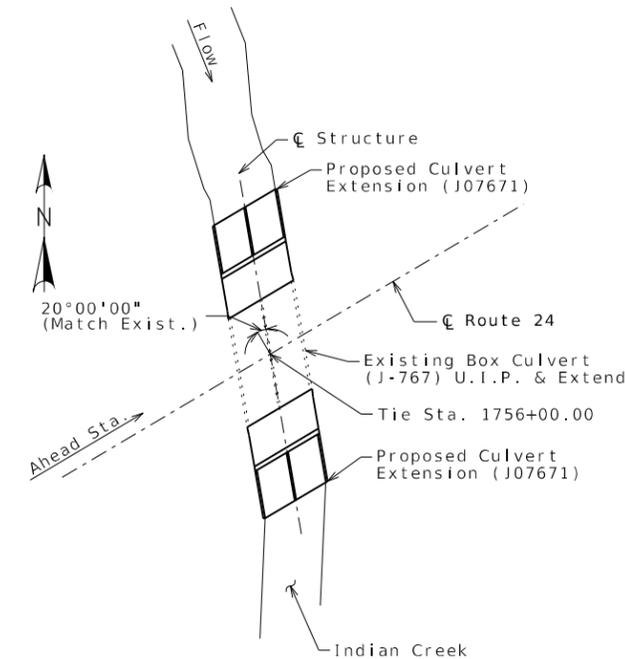
Hydrologic Data	
Drainage Area	= 1.33 mi ²
Design Flood Frequency	= 50 years
Design Flood Discharge	= 1530 cfs
Design Flood (D.F.) Elevation	= 657.90
Base Flood (100-year)	
Base Flood Elevation	= 658.94
Base Flood Discharge	= 1790 cfs
Estimated Backwater	= 2.58 ft
Outlet Velocity	= 10.3 ft/s
Roadway Overtopping	
Overtopping Flood Discharge	= 2200 cfs
Overtopping Flood Frequency	= >200 years
200-year Flood Elevation	= 659.99

Estimated Quantities			Final
Class 4 Excavation	cu. yard	95.0	
Temporary Shoring	lump sum	1	
Partial Removal of Culvert-Bridge Concrete	lump sum	1	
Dewatering	lump sum	1	
Class B-1 Concrete (Culverts-Bridge)	cu. yard	147.4	
Reinforcing Steel (Culverts-Bridge)	pound	20,490	
Bridge Guardrail (Thrie Beam)	linear foot	50.0	



PLAN OF PRECAST BOX CULVERT OPTION

Note:
If precast concrete box culvert option is selected by the contractor, the centerline of existing cell from centerline of precast cell shall not be more than 15 degrees offset in plan view.



LOCATION SKETCH



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/9/2025

ROUTE 24 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY MONROE

JOB NO. JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO. J07671

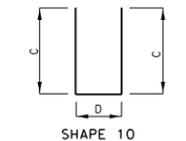
DATE	DESCRIPTION

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

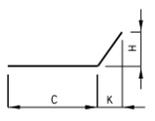
TRANSYSTEMS CORP.
2400 PERSHING ROAD
SUITE 400
KANSAS CITY, MO 64108
PHONE: (816)329-8600
FAX: (816)329-8601
MO STATE CERTIFICATE OF AUTHORITY # 273
ENGINEERING

BILL OF REINFORCING STEEL

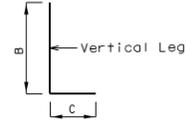
NO. REQ'D.	MARK NO.	LOCATION	SHAPE NO.	STIRRUP (S)	EPOXY (E)	VARIES (V)	NO. EACH	DIMENSIONS						NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
								B	C	D or F	E	H	K					
								FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.					
20	6 A1	TOP SLAB	20				25	9.000					25	9	25	9	774	
92	5 A2	BOTTOM SLAB	20				25	9.000					25	9	25	9	2471	
56	6 A3	TOP SLAB	20	V		4	25	0.000					25	0	25	0	1139	
68	5 A4	INCR. 1'-9.125" BOTTOM SLAB	20	V		4	25	11.875					25	0	25	0	960	
		INCR. 1'-5.125"					2	1.625					2	1	2	1		
68	5 B1	INTERIOR WALL	10						12.000	9	9.000			11	9	11	6	816
64	5 B2	EXTERIOR WALLS	10						12.000	9	9.000			11	9	11	6	768
4	8 D1	UP/DN HEADWALL	20				27	6.375					27	6	27	6	274	
4	8 D2	UP/DN HEADWALL	20				8	0.000					8	0	8	0	85	
24	5 E1	UP/DNSTRM TOE	20				4	1.000					4	1	4	1	102	
60	4 F1	UP/DNSTRM SLAB	20				19	11.125					19	11	19	11	798	
48	4 F2	UP/DN WINGS	20	V		8	17	7.000					17	7	17	7	374	
		INCR. 2'-4.500"					5	9.000					5	9	5	9		
124	4 F3	TOP/BOTTOM SLAB	20				17	0.750					17	1	17	1	1415	
32	4 F4	EXTERIOR WALLS	20				17	0.750					17	1	17	1	365	
24	4 F5	INTERIOR WALL	20				17	0.750					17	1	17	1	274	
68	5 G1	UP/DN INT. WING	19	V		4	9	9.000					10	9	10	8	482	
		INCR. 0'-5.875"					2	0.000	12.000				3	0	2	11		
68	5 G2	UP/DN EXT. WINGS	19	V		4	9	9.000	12.000				10	9	10	8	482	
		INCR. 0'-5.875"					2	0.000	12.000				3	0	2	11		
16	6 H1	TOP SLAB	20				19	8.000					19	8	19	8	473	
24	6 H2	TOP SLAB	20				6	6.000					6	6	6	6	234	
116	7 H3	BOTTOM SLAB	20				9	9.000					9	9	9	9	2312	
8	8 H4	UP/DN HEADWALL	20				27	6.375					27	6	27	6	587	
24	7 J1	UP/DN WINGS	20				21	10.000					21	10	21	10	1071	
104	5 J3	TOP SLAB	19			4	2	7.000	11.000				7	6	7	5	805	
132	5 J4	BOTTOM SLAB	19			3	8	7.000	11.875				12	7	12	6	1721	
132	5 J5	UP/DN EXT. WINGS	19	V		4	9	6.875	11.875				13	7	13	6	1371	
27	5 R1	UPSTRM HEADWALL	27					17.000	8.875	5.875	2	2.375	4.125	4	10	4	7	129
27	5 R2	UPSTRM HEADWALL	10	S				10.500	13.000					2	10	2	8	75
28	5 R3	DNSTRM HEADWALL	10	S				17.000	13.000					3	11	3	9	110
SUMMARY																		
4																		3226
5																		10292
6																		2620
7																		3383
8																		966



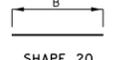
SHAPE 10



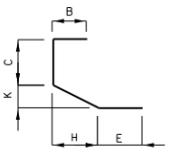
SHAPE 15



SHAPE 19



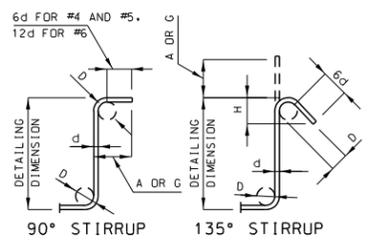
SHAPE 20



SHAPE 27

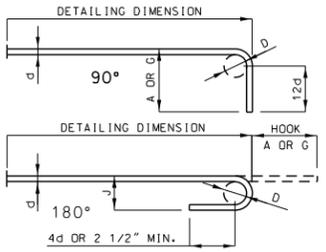
BAR SIZE	SPLICE LENGTH		BAR SIZE	MAX BAR LENGTH	
	NON-EPOXY	EPOXY		NON-EPOXY	EPOXY
#4	21 IN.		#4	60 FT.	
#5	26 IN.		#5	60 FT.	
#6	31 IN.		#6	60 FT.	
#7	39 IN.		#7	60 FT.	
#8	51 IN.		#8	60 FT.	
#9	65 IN.		#9	60 FT.	
#10	82 IN.		#10	60 FT.	
#11	101 IN.		#11	60 FT.	

NOTE: THE BAR LIST IS BASED ON THE MISSOURI STANDARD PLANS. THIS BAR LIST IS FOR QUANTITY ESTIMATION PURPOSE ONLY AND SHALL BE VERIFIED OR MODIFIED BY THE CONTRACTOR.



BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		A OR G	H	A OR G	H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	GRADE 60			
		180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	H
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	24"	

NOTE: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET. FB = BARS MAY BE BENT IN FIELD TO FIT. E = EPOXY COATED REINFORCEMENT. S = STIRRUP. V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. A BLANK IN THE SECOND LINE REPRESENTS THE SAME BAR DIMENSION AS THAT IN THE FIRST LINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADD A SPLICE LENGTH TO A BAR LENGTH WHICH EXCEEDS ITS MAXIMUM ALLOWABLE LENGTH. NO. EA. = NUMBER OF BARS OF EACH LENGTH. NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH) ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH. PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS. REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.

Detailed Oct 2024
Checked Oct 2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/9/2025

ROUTE: 24 STATE: MO
DISTRICT: BR SHEET NO.: 7

COUNTY: MONROE
JOB NO.: JNE0047
CONTRACT ID.

PROJECT NO.

BRIDGE NO.: J07671

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

TRANSYSTEMS CORP.
2400 PERSHING ROAD
SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600
FAX: (816) 329-8601

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

MO STATE CERTIFICATE OF AUTHORITY # 273
ENGINEERING

U.I.P. EXISTING 2(12'x 8') CONCRETE BOX CULVERT AND EXTEND UPSTREAM AND DOWNSTREAM

SEC/SUR 36 TWP 56N RGE 8W



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/9/2025

ROUTE 24 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY MONROE

JOB NO. JNE0047

CONTRACT ID.

PROJECT NO.

BRIDGE NO. J07951

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

TRANSYSTEMS CORP.

2400 PERSHING ROAD SUITE 400 KANSAS CITY, MO 64108

PHONE: (816)329-8600 FAX: (816)329-8601

MO STATE CERTIFICATE OF AUTHORITY # 273

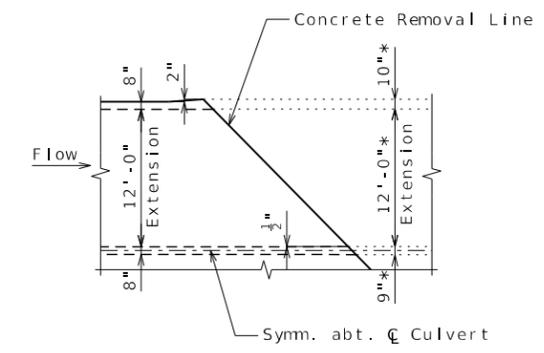
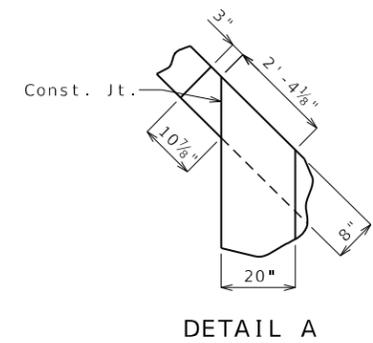
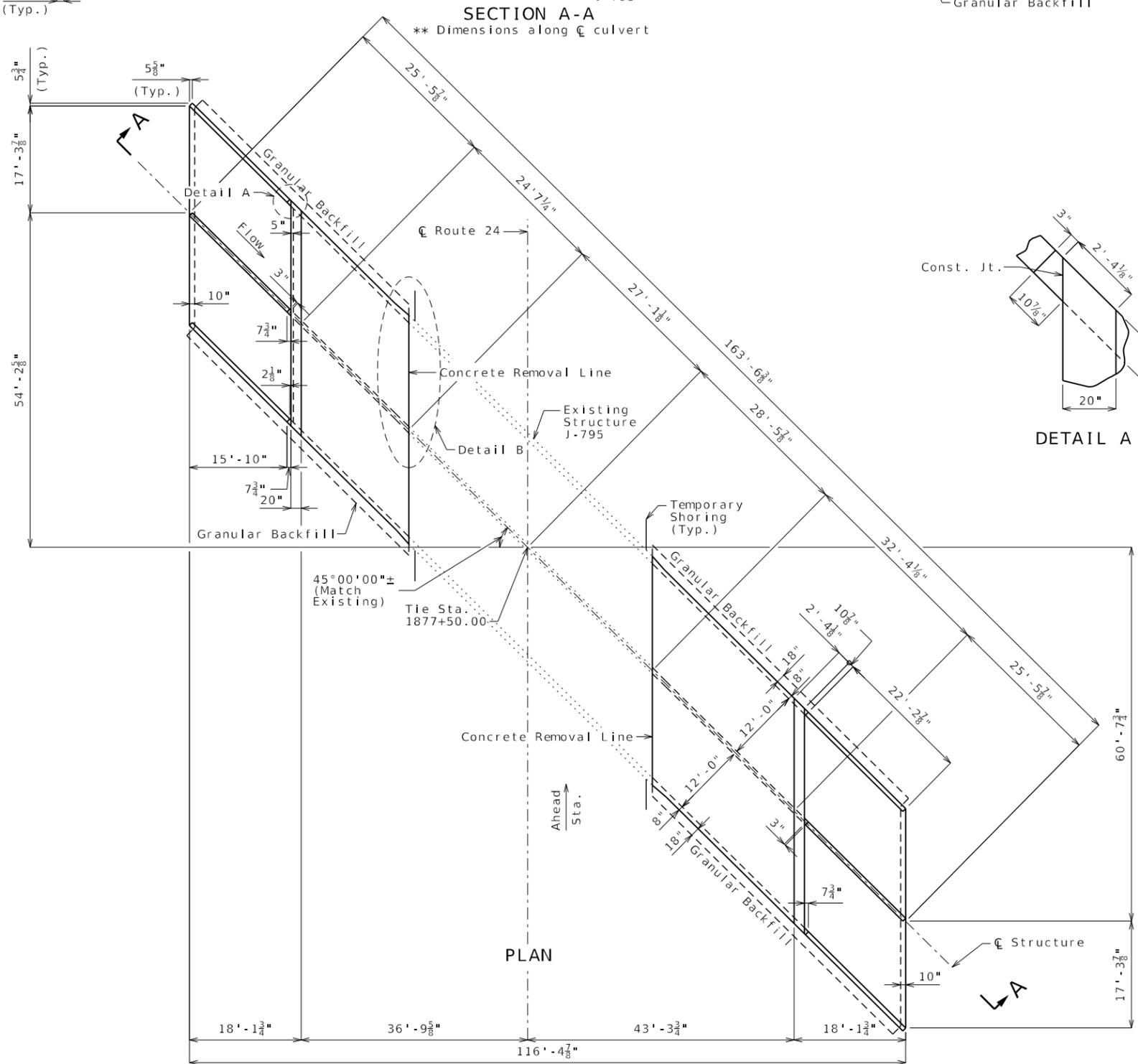
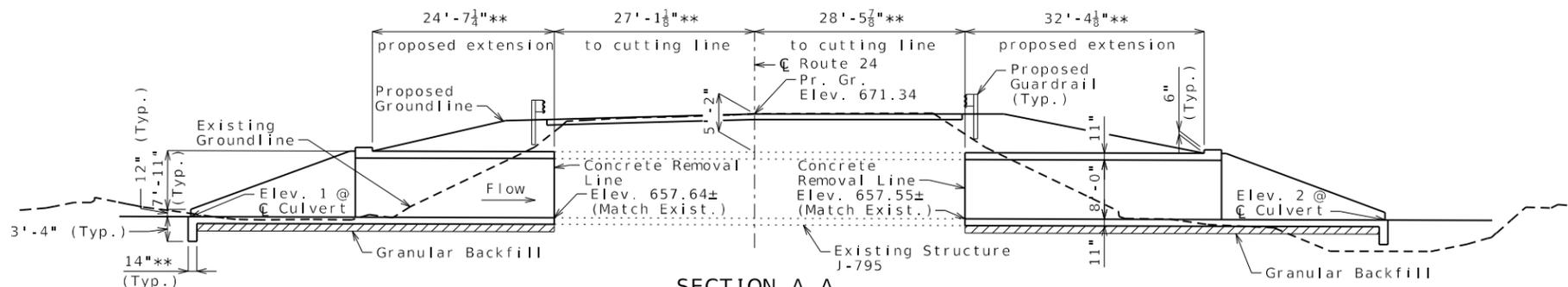
ENGINEERING

Notes:
Construction joint key not shown for clarity, see standard plans for details.
If any part of the barrel is exposed, the roadway fill shall be warped to provide 12 inches minimum cover. (Roadway Item)
If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

Elevations	
Upstream (Elev. 1) =	657.73
Downstream (Elev. 2) =	657.46
Pr. Gr. at Tie Sta. =	671.34

Fill Heights	
℄ Rdwy at ℄ Culvert =	5.17 ft
Design (All units) =	6 ft

Dimensions are based on end units.
Fill heights are measured from the top of top slab to the top of earth fill or roadway.



DETAIL B
* Verify existing dimensions in the field

Notes:
For General Notes, Estimated Quantities, Hydrologic Data, Section Thru Box and Location Sketch, see Sheet No. 2.
For Typical Section, see Roadway sheets.

B.M. #1200 NE CORNER ON EAST HEADWALL.
STA. 1877+47.51, 21.95' RT.
ELEV. 668.24

REPAIRS TO CULVERT-BRIDGE: ROUTE 24 OVER LITTLE INDIAN CREEK
ROUTE 24 FROM ROUTE N TO ROUTE W ABOUT 0.44 MILES NE OF MONROE, MO
TIE STATION 1877+50.00

Designed Oct 2024
Detailed Oct 2024
Checked Oct 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 1 of 6

General Notes:

Design Specifications:
2010 AASHTO LRFD Bridge Design Specifications and 2010 Interim Revisions

Design Loading:
Vehicular = HL-93 minus lane load (new construction only), Earth = 120 lb/cf
Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi

Standard Plans:
606.50, 703.37, 703.38, 703.42, 703.46, 703.47

Miscellaneous:
MoDOT Construction personnel will indicate the type of box culvert constructed:
 Precast Concrete Box used
 Cast-in-Place Concrete Box used

When alternate precast concrete box sections are used, the minimum distance from inside face of headwalls to precast sections measured along the shortest wall shall be 3 feet. Reinforcement and dimensions for wings and headwalls shall be in accordance with Missouri Standard Plans.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless noted otherwise.

The area exposed by removal of concrete and not covered with new concrete shall be coated with an approved bituminous paint.

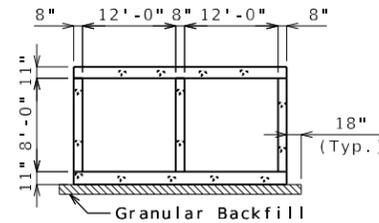
Bottom of top slab, top of bottom slab and inside faces of walls shall be built flush with existing structure.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering material.

Channel bottom shall be graded within the right of way for transition of channel bed to culvert openings. Channel banks shall be tapered to match culvert openings. (Roadway Item)

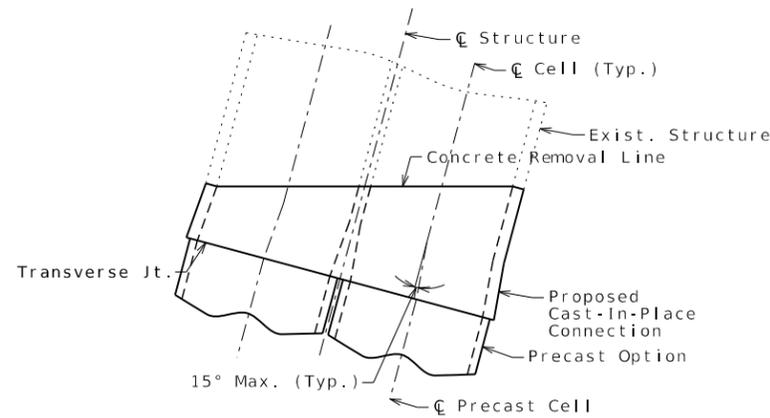
Traffic Handling:
Traffic to be maintained on existing structure during construction. See roadway plans for traffic control.



SECTION THRU BOX
(Normal to C Structure)
Keyed construction joint not shown for clarity.

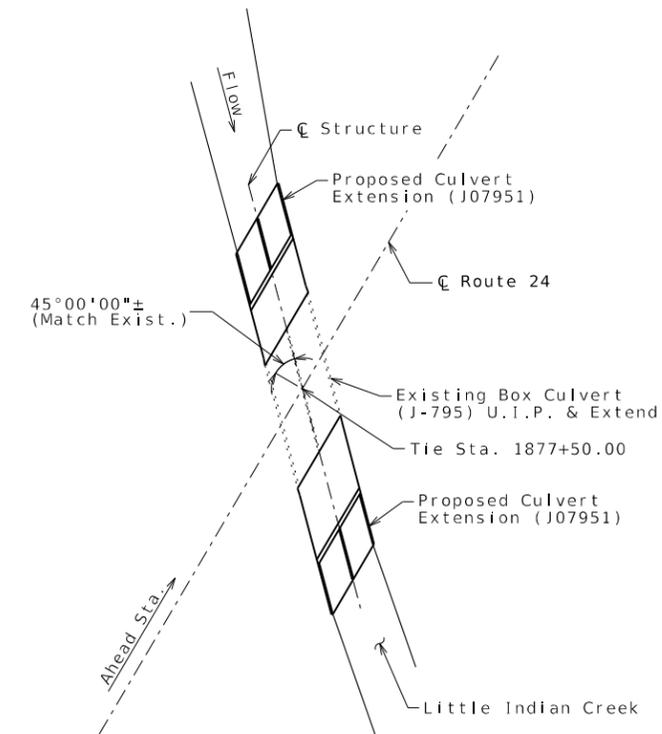
Hydrologic Data	
Drainage Area = 6.94 mi ²	
Design Flood Frequency = 50 years	
Design Flood Discharge = 3270 cfs	
Design Flood (D.F.) Elevation = 671.13	
Base Flood (100-year)	
Base Flood Elevation = 671.42	
Base Flood Discharge = 3800 cfs	
Estimated Backwater = 6.08 ft	
Outlet Velocity = 19.9 ft/s	
Roadway Overtopping	
Overtopping Flood Discharge = 2740 cfs	
Overtopping Flood Frequency = 25 years	
25-year Flood Elevation = 670.75	

Estimated Quantities			Final
Class 4 Excavation	cu. yard	85.0	
Temporary Shoring	lump sum	1	
Partial Removal of Culvert-Bridge Concrete	lump sum	1	
Dewatering	lump sum	1	
Class B-1 Concrete (Culverts-Bridge)	cu. yard	272.13	
Reinforcing Steel (Culverts-Bridge)	pound	31,195	

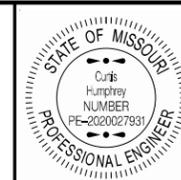


PLAN OF PRECAST BOX CULVERT OPTION

Note:
If precast concrete box culvert option is selected by the contractor, the centerline of existing cell from centerline of precast cell shall not be more than 15 degrees offset in plan view.



LOCATION SKETCH



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DATE PREPARED
4/9/2025

ROUTE 24 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY MONROE

JOB NO. JNE0047

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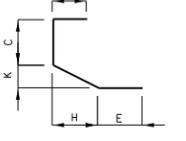
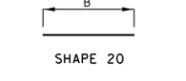
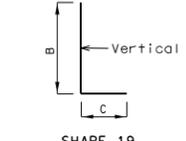
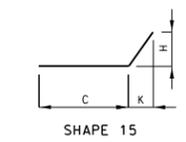
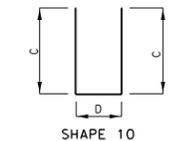
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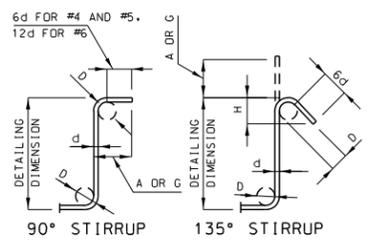
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	SHAPE NO.	STIRRUP (S)	EPOXY (E)	VARIES (V)	NO. EACH	DIMENSIONS						NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT				
								B	C	D or F	E	H	K							
								FT.	FT.	FT.	FT.	FT.	FT.				FT. IN.	FT. IN.	LBS.	
3	5 A1	UPSTRM TOP SLAB	20				25	9.000					25	9	81					
46	5 A2	UPSTRM BOTT SLAB	20				25	9.000					25	9	1235					
80	5 A3	UPSTRM TOP SLAB	20	V			25	2.000					25	2	1137					
		INCR. 0'-7.125"					2	1.375					2	1						
86	5 A4	UPSTRM BOTT SLAB	20	V			25	2.125					25	2	1226					
		INCR. 0'-6.625"					2	1.500					2	2						
16	5 A5	DNSTRM TOP SLAB	20				25	9.000					25	9	430					
60	5 A6	DNSTRM BOTT SLAB	20				25	9.000					25	9	1611					
80	5 A7	DNSTRM TOP SLAB	20	V			25	3.125					25	3	1144					
		INCR. 0'-7.125"					2	2.375					2	2						
86	5 A8	DNSTRM BOTT SLAB	20	V			25	3.250					25	3	1230					
		INCR. 0'-6.625"					2	2.375					2	2						
52	5 B1	UPSTRM INT WALL	10						12.000	9	5.000		11	5	11	2	606			
52	5 B2	UPSTRM EXT WALLS	10						12.000	9	5.000		11	5	11	2	606			
68	5 B1	DNSTRM INT WALL	10						12.000	9	5.000		11	5	11	2	792			
68	5 B2	DNSTRM EXT WALLS	10						12.000	9	5.000		11	5	11	2	792			
52	5 D1	UPSTRM HEADWALL	20				36	2.125					36	2	36	2	193			
52	5 D2	UPSTRM HEADWALL	20				8	0.000					8	0	8	0	43			
68	5 D3	DNSTRM HEADWALL	20				36	2.125					36	2	36	2	193			
68	5 D4	DNSTRM HEADWALL	20				8	0.000					8	0	8	0	43			
24	5 E1	UP/DNSTRM TOE	20				4	1.500					4	1	25	9	102			
30	4 F1	UPSTRM SLAB	20				25	10.125					25	10	25	10	518			
24	4 F2	UPSTRM WINGS	20	V			22	10.000					22	10	22	10	234			
		INCR. 3'-3.375"					6	5.375					6	5	6	5				
62	4 F3	UP TOP/BOTT SLAB	20				26	7.125					26	7	26	7	1101			
16	4 F4	UPSTRM EXT WALLS	20				26	7.125					26	7	26	7	284			
12	4 F5	UPSTRM INT WALL	20				26	7.125					26	7	26	7	213			
62	4 F6	DN TOP/BOTT SLAB	20				34	4.125					34	4	34	4	1422			
16	4 F7	DNSTRM EXT WALLS	20				34	4.125					34	4	34	4	367			
12	4 F8	DNSTRM INT WALL	20				34	4.125					34	4	34	4	275			
30	4 F9	DNSTRM SLAB	20				25	10.125					25	10	25	10	518			
24	4 F10	DNSTRM WINGS	20	V			22	10.000					22	10	22	10	234			
		INCR. 3'-3.375"					6	5.375					6	5	6	5				
44	5 G1	UPSTRM INT. WING	19	V			2	9	5.000		12.000		10	5	10	4	306			
		INCR. 0'-4.250"					2	1.375			12.000		3	1	3	0				
44	5 G2	UPSTRM EXT. WINGS	19	V			2	9	5.000		12.000		10	5	10	4	306			
		INCR. 0'-5.875"					2	1.375			12.000		3	1	3	0				
44	5 G3	DNSTRM INT. WING	19	V			2	9	5.000		12.000		10	5	10	4	304			
		INCR. 0'-4.250"					2	0.375			12.000		3	0	2	11				
44	5 G4	DNSTRM EXT. WINGS	19	V			2	9	5.000		12.000		10	5	10	4	304			
		INCR. 0'-5.875"					2	0.375			12.000		3	0	2	11				
15	6 H1	UPSTRM TOP SLAB	20				10	6.000					10	6	10	6	237			
18	6 H2	UPSTRM TOP SLAB	20				5	10.000					5	10	5	10	158			
75	7 H3	UPSTRM BOTT SLAB	20				9	7.000					9	7	9	7	1469			
4	8 H4	UPSTRM HEADWALL	20				36	2.125					36	2	36	2	386			
21	6 H5	DNSTRM TOP SLAB	20				10	6.000					10	6	10	6	331			
25	6 H6	DNSTRM TOP SLAB	20				5	10.000					5	10	5	10	219			
89	7 H7	DNSTRM BOTT SLAB	20				9	7.000					9	7	9	7	1743			
4	8 H8	DNSTRM HEADWALL	20				36	2.125					36	2	36	2	386			
24	7 J1	UP/DNSTRM WINGS	20				27	0.000					27	0	27	0	1325			
86	5 J3	UPSTRM TOP SLAB	19				2	7.000	3	4.875			6	0	5	11	531			
87	5 J4	UPSTRM BOTT SLAB	19				8	7.000	3	3.125			11	10	11	9	1066			
83	7 J5	UPSTRM EXT WINGS	19	V			2	9	5.000	3	3.250		12	8	12	7	1499			
		INCR. 0'-2.125"							22.500	3	3.250		5	2	5	1				
113	5 J6	DNSTRM BOTT SLAB	19				8	7.000	3	3.125			11	10	11	9	1385			
83	7 J7	DNSTRM EXT WINGS	19	V			2	9	5.000	3	3.250		12	8	12	7	1499			
		INCR. 0'-2.500"							22.500	3	3.250		5	2	5	1				
116	5 J9	DNSTRM TOP SLAB	19				2	7.000	3	4.875			6	0	5	11	716			
34	5 R1	UPSTRM HEADWALL	27						8.875		5.875	2	2.375	4.125	4.125	4	7	163		
34	5 R2	UPSTRM HEADWALL	10	S					10.500		13.000				2	10	2	8	95	
35	5 R3	DNSTRM HEADWALL	10	S					17.000		13.000				3	11	3	9	137	
		SUMMARY																		
4																				5166
5																				16305
6																				945
7																				7535
8																				1244



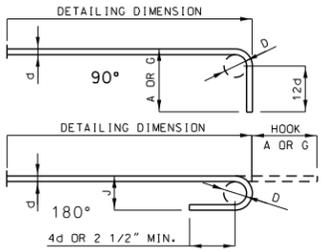
SPLICE LENGTH		MAX BAR LENGTH	
BAR SIZE	NON-EPOXY	BAR SIZE	NON-EPOXY
#4	21 IN.	#4	60 FT.
#5	26 IN.	#5	60 FT.
#6	31 IN.	#6	60 FT.
#7	39 IN.	#7	60 FT.
#8	51 IN.	#8	60 FT.
#9	65 IN.	#9	60 FT.
#10	82 IN.	#10	60 FT.
#11	101 IN.	#11	60 FT.

NOTE:
THE BAR LIST IS BASED ON THE MISSOURI STANDARD PLANS.
THIS BAR LIST IS FOR QUANTITY ESTIMATION PURPOSE ONLY AND SHALL BE VERIFIED OR MODIFIED BY THE CONTRACTOR.



STIRRUP HOOK DIMENSIONS				
BAR SIZE	D (IN.)	90° HOOK		135° HOOK
		HOOK A OR G	HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	GRADE 60			
		180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	J
#4	3"	6"	4"	8"	8"
#5	3 3/4"	7"	5"	10"	10"
#6	4 1/2"	8"	6"	12"	12"
#7	5 1/4"	10"	7"	14"	14"
#8	6"	11"	8"	16"	16"
#9	9 1/2"	15"	11 3/4"	19"	19"
#10	10 3/4"	17"	13 1/4"	22"	22"
#11	12"	19"	14 3/4"	24"	24"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
FB = BARS MAY BE BENT IN FIELD TO FIT.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. A BLANK IN THE SECOND LINE REPRESENTS THE SAME BAR DIMENSION AS THAT IN THE FIRST LINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADD A SPLICE LENGTH TO A BAR LENGTH WHICH EXCEEDS ITS MAXIMUM ALLOWABLE LENGTH.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.

Detailed Oct 2024
Checked Oct 2024

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DATE PREPARED: 4/9/2025

ROUTE: 24 STATE: MO

DISTRICT: BR SHEET NO.: 6

COUNTY: MONROE

JOB NO.: JNE0047

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