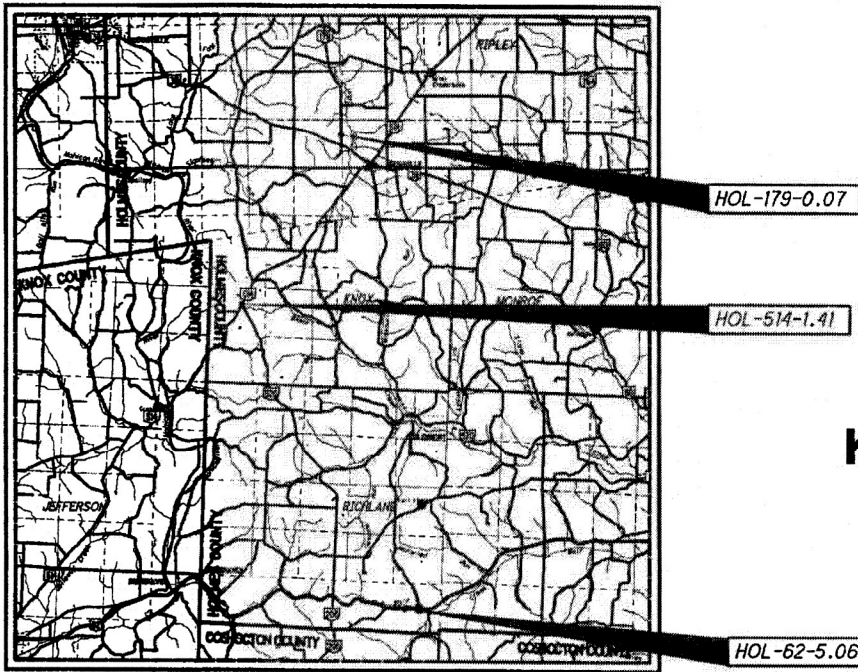


HOL - US 62/VAR-05.06/VAR
 210061 PID - 105124
 Dist 11 1/28/2021

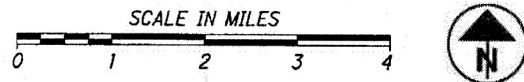
Contract Proposal available @
 www.contracts.dot.state.oh.us

J:\20190025\0007\11A_HOL-62 (PID 105124)\HOL_105124_HOL-62_CULVERTS\Design\Roadway\Sheets\105124_G1000.dgn 9/28/2020 4:46:16 PM r_hoops



LOCATION MAP

(HOL-62-5.06) - LATITUDE: N 40° 27' 40" LONGITUDE: W 82° 6' 10"
 (HOL-179-0.07) - LATITUDE: N 40° 36' 10" LONGITUDE: W 82° 7' 30"
 (HOL-514-1.41) - LATITUDE: N 40° 33' 15" LONGITUDE: W 82° 10' 00"



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

	HOL-62-5.06	HOL-179-0.07	HOL-514-1.41
OPENING YEAR ADT (2021)	1,840	910	620
DESIGN YEAR ADT (2041)	1,940	960	660
DESIGN HOURLY VOLUME (2041)	184	91	62
DIRECTIONAL DISTRIBUTION	69%	63%	60%
TRUCKS (24 HOUR B&C)	14%	19%	12%
DESIGN SPEED	55	55	55
LEGAL SPEED	55	55	55
DESIGN FUNCTIONAL CLASSIFICATION:	RURAL MAJOR COLLECTOR	RURAL MINOR COLLECTOR	RURAL MAJOR COLLECTOR
NHS PROJECT	NO	NO	NO

DESIGN EXCEPTIONS

	APPROVAL DATE	SHEET NUMBER
HOL-62-0506		
LANE WIDTH	9/17/19	3
GRADED SHOULDER WIDTH	9/17/19	3
HOL-179-0007		
LANE WIDTH	10/3/19	3
HOL-514-0141		
LANE WIDTH	10/3/19	3
GRADED SHOULDER WIDTH	10/3/19	3

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION

HOL 62 / VAR
5.06 / VAR
 KNOX, RICHLAND, AND WASHINGTON
 TOWNSHIPS
 HOLMES COUNTY

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ATTENTION
 Contact the Ohio Department
 of Transportation for current
 Plans of Record

ENGINEERS SEAL:

SIGNED: *Robert S. Hoops*
 DATE: 9/28/20

PROJECT DESCRIPTION

HOL-62-0506, HOL-179-0007 & HOL-514-0141:
 REPLACE CULVERTS AND HEADWALLS, INSTALL GUARDRAIL
 WITH REGRADED SLOPES AS NEEDED, MILL AND FILL AND
 PROVIDE FULL DEPTH PAVEMENT, AND REPLACE
 PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: *
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: *
 NOTICE OF INTENT EARTH DISTURBED AREA: *
 * SEE CULVERT PLAN AND DETAIL SHEETS

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF
 OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING
 SUPPLEMENTAL SPECIFICATIONS LISTED IN THE
 PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL
 GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT
 THE MAKING OF THIS IMPROVEMENT WILL REQUIRE
 THE CLOSING TO TRAFFIC OF SR 179, SR 514, AND
 US 62 IN HOLMES COUNTY, AND A DETOUR WILL BE
 PROVIDED AS INDICATED ON SHEETS 8 , 9 , 11 .

UNDERGROUND UTILITIES
 Contact Two Working Days
 Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
 (Non-members must be called directly)

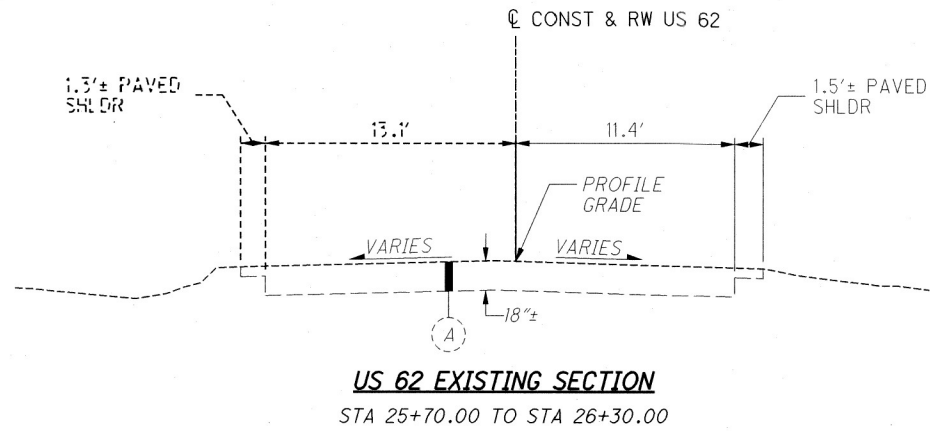
APPROVED: *Thomas D. Coey*
 DATE: 1-2-2020 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
 DATE: _____ DIRECTOR, DEPARTMENT OF
 TRANSPORTATION

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	01/17/20	MT-97.10	4/19/19	800	10/16/20	WATERWAY PERMIT	
BP-4.1	7/19/13	MT-101.60	1/17/20	832	10/19/18	CONDITIONS	
DM-1.1	7/17/20	MT-101.90	7/17/20	902	7/19/19	1/14/20	
DM-4.3	1/15/16	MT-105.10	1/17/20				
DM-4.4	1/15/16	TC-41.20	10/18/13				
		TC-42.20	10/18/13				
MGS-1.1	1/19/18	TC-52.10	10/18/13				
MGS-2.1	1/19/18	TC-52.20	7/20/18				
MGS-4.2	7/19/13	TC-65.10	1/17/14				
		TC-65.11	7/21/17				
HW-1.1	7/20/18						
HW-2.1	7/20/18						
HW-2.2	7/20/18						

FEDERAL PROJECT NO. E170998
 CONSTRUCTION PROJECT NO. 105124
 RAILROAD INVOLVEMENT NONE
 HOL 62 / VAR 5.06 / VAR
 1/48

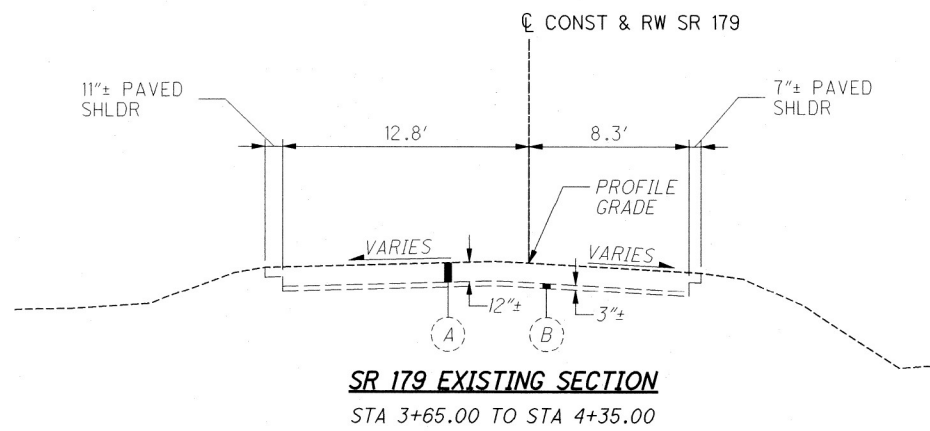
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PAVEMENT TRANSITION TABLE US-62																
LEFT SIDE						PROFILE CONTROL		CROWN POINT		RIGHT SIDE						
EX EDGE ELEVATION	PROP EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION*	CROSS SLOPE*	WIDTH*	STATION	PROFILE GRADE (ALONG CENTERLINE)	OFFSET (FT) FROM CL (+/RT) (-/LT)	ELEVATION	WIDTH*	CROSS SLOPE*	ELEVATION CORRECTION*	TRANSITION RATE	PROP EDGE ELEVATION	EX EDGE ELEVATION	REMARKS
933.23	933.23	590	-0.36	0.030	11.99	25+70.00	933.53	-1.60	933.59	12.45	0.035	-0.43	803	933.16	933.16	MATCH EX. (BEG RESURFACE)
933.23	933.23		-0.38	0.032	12.00	25+75.00	933.56	-1.55	933.61	12.45	0.035	-0.43		933.18	933.18	
933.26	933.26		-0.41	0.034	12.02	25+85.00	933.62	-1.46	933.67	12.45	0.035	-0.43		933.24	933.24	END RESURFACE/BEG. FULL DEPTH
933.28	933.38		-0.39	0.032	12.06	25+98.21	933.72	-1.32	933.77	12.44	0.033	-0.41		933.36	933.35	CL CULVERT
933.56	933.56		-0.36	0.030	12.05	26+15.00	933.89	-1.14	933.92	12.41	0.031	-0.39		933.53	933.53	END FULL DEPTH/BEGIN RESURFACE
933.77	933.77		-0.30	0.025	12.01	26+25.00	934.04	-1.05	934.07	12.41	0.023	-0.29		933.78	933.78	
933.86	933.86	-0.29	0.024	12.00	26+30.00	934.12	-1.00	934.15	12.42	0.030	-0.37	933.78	933.78	MATCH EX. (END RESURFACE)		

* MEASURED TO CROWN POINT

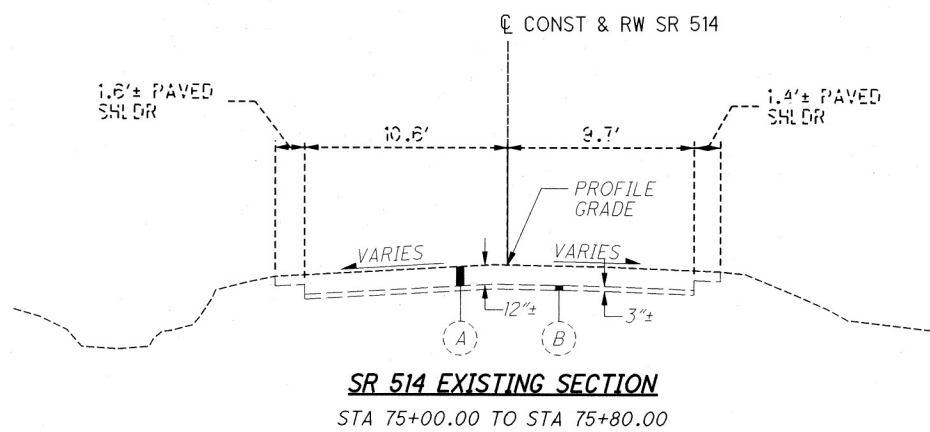
* MEASURED TO CROWN POINT



PAVEMENT TRANSITION TABLE SR-179																
LEFT SIDE						PROFILE CONTROL		CROWN POINT		RIGHT SIDE						
EX EDGE ELEVATION	PROP EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION*	CROSS SLOPE*	WIDTH*	STATION	PROFILE GRADE (ALONG CENTERLINE)	OFFSET (FT) FROM CL (+/RT) (-/LT)	ELEVATION	WIDTH*	CROSS SLOPE*	ELEVATION CORRECTION*	TRANSITION RATE	PROP EDGE ELEVATION	EX EDGE ELEVATION	REMARKS
1116.25	1116.25	397	-0.46	0.043	10.71	3+65.00	1116.57	-2.75	1116.71	9.90	0.041	-0.41	236	1116.3	1116.3	MATCH EX. (BEG RESURFACE)
1116.23	1116.23		-0.45	0.042	10.73	3+75.00	1116.55	-2.66	1116.68	9.95	0.049	-0.49		1116.19	1116.19	
1116.21	1116.21		-0.49	0.046	10.72	3+80.00	1116.57	-2.63	1116.70	10.00	0.055	-0.55		1116.15	1116.15	END RESURFACE/BEG. FULL DEPTH
1116.23	1116.31		-0.45	0.042	10.67	3+98.47	1116.58	-2.55	1116.76	10.17	0.062	-0.63		1116.13	1116.03	CL CULVERT
1116.79	1116.79		-0.41	0.037	10.99	4+20.00	1117.06	-2.07	1117.20	9.98	0.069	-0.69		1116.51	1116.51	END FULL DEPTH/BEGIN RESURFACE
1116.91	1116.91		-0.40	0.036	11.03	4+25.00	1117.18	-1.99	1117.31	9.97	0.068	-0.68		1116.63	1116.63	
1117.16	1117.16	-0.36	0.033	11.04	4+35.00	1117.41	-1.91	1117.52	10.03	0.063	-0.63	1116.89	1116.89	MATCH EX. (END RESURFACE)		

* MEASURED TO CROWN POINT

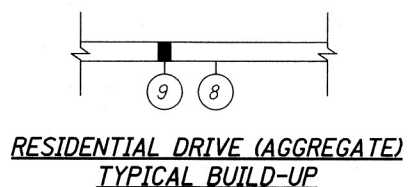
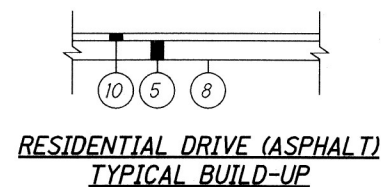
* MEASURED TO CROWN POINT



PAVEMENT TRANSITION TABLE SR-514																
LEFT SIDE						PROFILE CONTROL		CROWN POINT		RIGHT SIDE						
EX EDGE ELEVATION	PROP EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION*	CROSS SLOPE*	WIDTH*	STATION	PROFILE GRADE (ALONG CENTERLINE)	OFFSET (FT) FROM CL (+/RT) (-/LT)	ELEVATION	WIDTH*	CROSS SLOPE*	ELEVATION CORRECTION*	TRANSITION RATE	PROP EDGE ELEVATION	EX EDGE ELEVATION	REMARKS
1216.30	1216.30	15904	-0.49	0.048	10.26	75+00.00	1216.78	-0.58	1216.79	16.21	0.054	-0.88	490	1215.91	1215.91	MATCH EX. (BEG RESURFACE)
1216.23	1216.23		-0.58	0.057	10.13	75+15.00	1216.77	-0.62	1216.81	11.91	0.050	-0.59		1216.22	1216.22	END RESURFACE/BEG. FULL DEPTH
1216.18	1216.18		-0.59	0.057	10.05	75+25.00	1216.73	-0.75	1216.77	10.78	0.048	-0.55		1216.22	1216.22	
1216.22	1216.15		-0.57	0.057	9.94	75+39.02	1216.68	-0.83	1216.72	10.65	0.045	-0.48		1216.24	1216.27	CL CULVERT
1216.28	1216.28		-0.58	0.057	9.92	75+50.00	1216.82	-0.75	1216.86	10.58	0.043	-0.49		1216.37	1216.37	
1216.49	1216.49		-0.57	0.058	9.91	75+65.00	1217.03	-0.75	1217.06	10.48	0.041	-0.43		1216.63	1216.63	END FULL DEPTH/BEGIN RESURFACE
1216.64	1216.64	-0.54	0.055	9.88	75+75.00	1217.17	-0.62	1217.18	10.40	0.029	-0.30	1216.88	1216.88			
1216.76	1216.76	-0.49	0.050	9.86	75+80.00	1217.23	-0.62	1217.25	10.37	0.024	-0.25	1217.00	1217.00	MATCH EX. (END RESURFACE)		

* MEASURED TO CROWN POINT

* MEASURED TO CROWN POINT



EXISTING LEGEND

(A) EX ASPHALT CONCRETE PAVEMENT

(B) EX AGGREGATE BASE

NOTES:

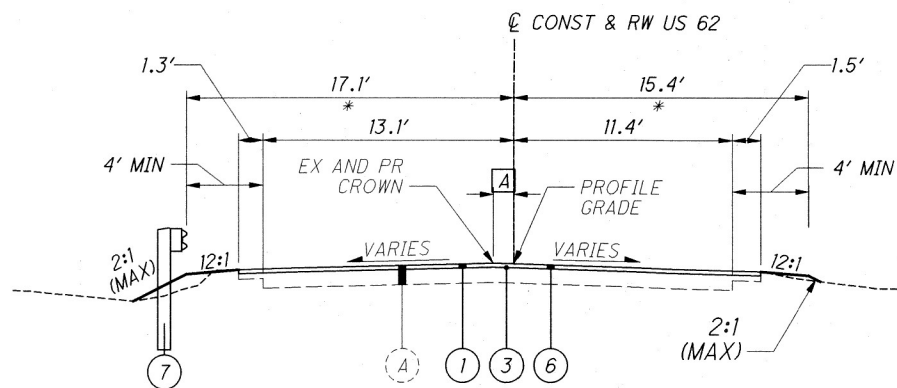
1) EXISTING CROWN OF PAVEMENT VARIES FROM EXISTING ϕ OF RIGHT-OF-WAY AND CONSTRUCTION.

2) FOR PROPOSED LEGEND, SEE SHEET 3

TYPICAL SECTIONS

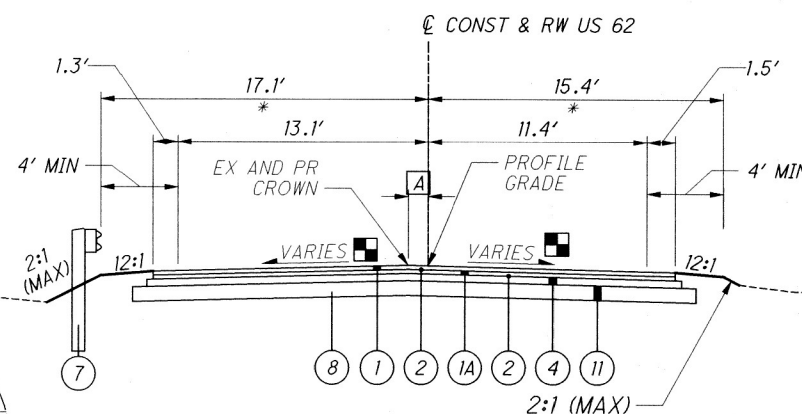
HOL 62 / VAR
5.06 / VAR

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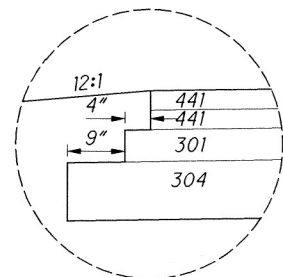
US 62 RESURFACING SECTION

STA 25+70.00 TO STA 25+85.00
STA 26+15.00 TO STA 26+30.00

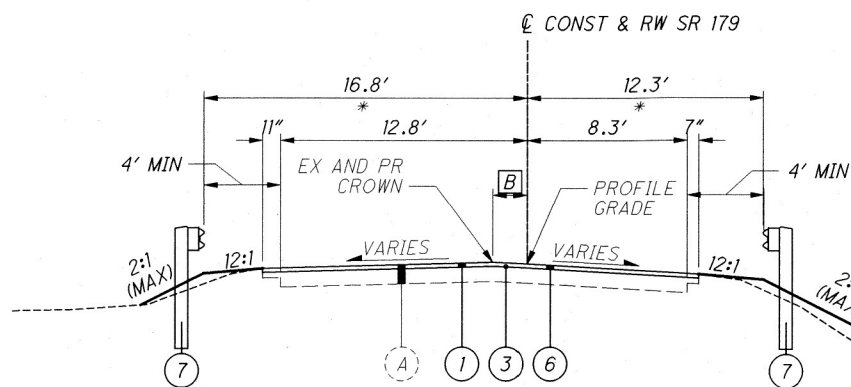


US 62 FULL DEPTH SECTION

STA 25+85.00 TO STA 26+15.00

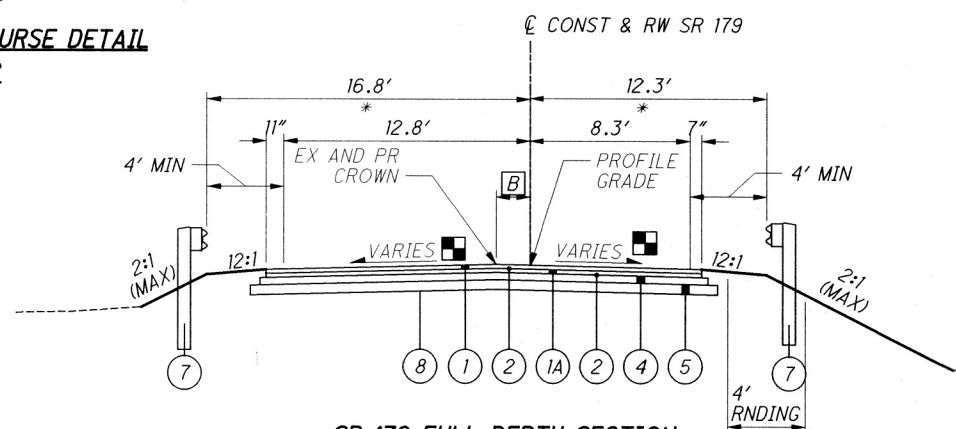


**TYPICAL EDGE COURSE DETAIL
US 62**



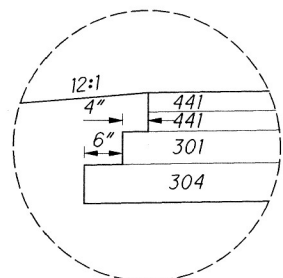
SR 179 RESURFACING SECTION

STA 3+65.00 TO STA 3+80.00
STA 4+20.00 TO STA 4+35.00

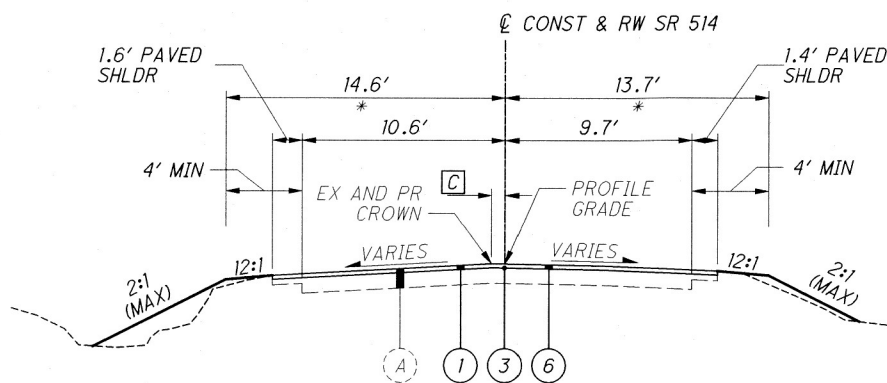


SR 179 FULL DEPTH SECTION

STA 3+80.00 TO STA 4+20.00

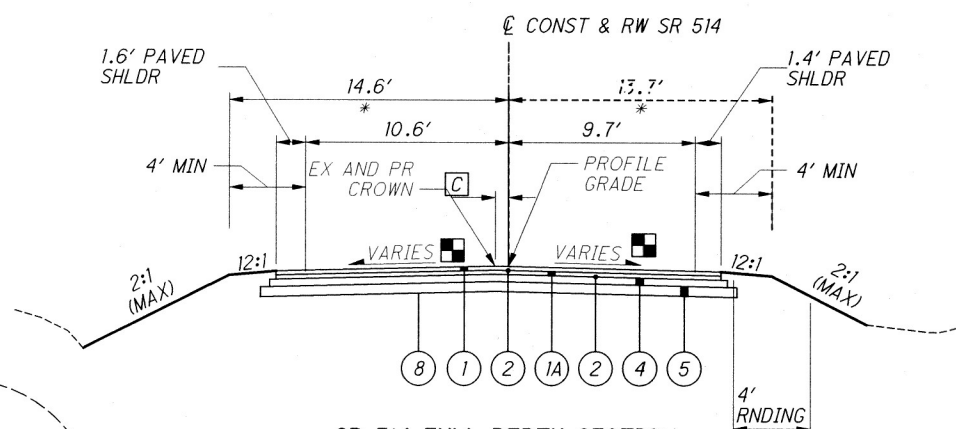


**TYPICAL EDGE COURSE DETAIL
SR 179 & SR 514**



SR 514 RESURFACING SECTION

STA 75+00.00 TO STA 75+15.00
STA 75+65.00 TO STA 75+80.00



SR 514 FULL DEPTH SECTION

STA 75+15.00 TO STA 75+65.00

NOTES:

1) SEE CROSS SECTIONS FOR DITCH GRADING.

* SEE PLAN AND PROFILE FOR LIMITS OF GUARDRAIL

** FOR TYPE E END ANCHOR ASSEMBLIES, GRADE BREAK SHALL BE ONE FOOT BEHIND GUARD POST

■ SEE PAVEMENT TRANSITION TABLE ON SHEET 2 .

DESIGN EXCEPTION - HOL-62-0506

LANE WIDTH:
WIDTH 11.52± (NDC=12' MIN)
GRADED SHOULDER WIDTH
WIDTH=4'± (NDC=8' MIN)
(NDC=6' MIN FOR MGS GR WITH LONG POSTS)

A VARIES 1'-7" @ STA. 25+70.00
TO 1'-5" @ STA. 25+85.00

VARIES 1'-5" @ STA. 25+85.00
TO 1'-2" @ STA. 26+15.00

VARIES 1'-2" @ STA. 26+15.00
TO 1'-0" @ STA. 26+30.00

DESIGN EXCEPTION - HOL-179-0008

LANE WIDTH:
WIDTH=10.55± (NDC=11' MIN)

B VARIES 2'-9" @ STA. 3+65.00
TO 2'-7" @ STA. 3+80.00

VARIES 2'-7" @ STA. 3+80.00
TO 2'-0" @ STA. 4+20.00

VARIES 2'-0" @ STA. 4+20.00
TO 1'-11" @ STA. 4+35.00

DESIGN EXCEPTION - HOL-514-0142

LANE WIDTH:
WIDTH=10.15± (NDC=11' MIN)
GRADED SHOULDER WIDTH
WIDTH=4'± (NDC=6' MIN)

C VARIES 0'-5" @ STA. 75+00.00
TO 0'-8" @ STA. 75+15.00

VARIES 0'-8" @ STA. 75+15.00
TO 0'-9" @ STA. 75+65.00

VARIES 0'-9" @ STA. 75+65.00
TO 0'-8" @ STA. 75+80.00

EXISTING LEGEND

(A) EX ASPHALT CONCRETE PAVEMENT (DEPTH UNKNOWN)

PROPOSED LEGEND

- (1) ITEM 441 - 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG70-22M)
- (1A) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)
- (2) ITEM 407 - TACK COAT (0.06 GAL/SY (FOR QUANTITY PURPOSES))
- (3) ITEM 407 - TACK COAT (0.09 GAL/SY (FOR QUANTITY PURPOSES))
- (4) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
- (5) ITEM 304 - 6" AGGREGATE BASE
- (6) ITEM 254 - PAVEMENT PLANING (1.25")
- (7) ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS **
- (8) ITEM 204 - SUBGRADE COMPACTION
- (9) ITEM 304 - 8" AGGREGATE BASE
- (10) ITEM 441 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG70-22M)
- (11) ITEM 304 - AGGREGATE BASE, AS PER PLAN, (9" FOR QUANTITY PURPOSES)

TYPICAL SECTIONS

**HOL 62/VAR
5.06/VAR**

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

HOL-62-5.06

HOLMES-WAYNE ELECTRIC COOPERATIVE
ATTN: TIM VICKERS
6060 STATE ROUTE 83
MILLERSBURG, OHIO 44654
OFFICE: 330-674-1055

CENTURYLINK CORPORATION
ATTN: JEFFREY SCHOONOVER
2025 AKRON ROAD
WOOSTER, OHIO 44691
OFFICE: 330-262-1128

HOL-179-0.07

AEP OHIO POWER COMPANY
ATTN: KEITH SCHALMO
301 CLEVELAND AVE SW.
CANTON, OHIO 44701
330-438-7720

CENTURYLINK CORPORATION
ATTN: JEFFREY SCHOONOVER
2025 AKRON ROAD
WOOSTER, OHIO 44691
OFFICE: 330-262-1128

HOL-514-1.41

HOLMES-WAYNE ELECTRIC COOPERATIVE
ATTN: TIM VICKERS
6060 STATE ROUTE 83
MILLERSBURG, OHIO 44654
OFFICE: 330-674-1055

CENTURYLINK CORPORATION
ATTN: JEFFREY SCHOONOVER
2025 AKRON ROAD
WOOSTER, OHIO 44691
OFFICE: 330-262-1128

EXISTING PLANS

THE FOLLOWING EXISTING PLANS THAT MAY BE INSPECTED IN THE ODOT DISTRICT 11 OFFICE IN NEW PHILADELPHIA, OHIO:
HOL-62-00.00 (1927)
THE EXISTING PLANS CAN ALSO BE DOWNLOADED FROM THE FOLLOWING FTP SITE:
FTP://FTP.DOT.STATE.OH.US/PUB/CONTRACTS/ATTACH/HOL-62-00.00 (1927)

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING. ALL TREES WITHIN THE CONSTRUCTION LIMITS HAVE BEEN REMOVED.

DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS AND AVOID AND/OR LIMIT DEMOLITION DEBRIS AND/OR EMBANKMENT SOIL FROM ENTERING THE STREAM. ANY DEBRIS MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE

SURVEY PARAMETERS

US-62

USE THE FOLLOWING HORIZONTAL AND VERTICAL POSITIONING PARAMETERS FOR ALL SURVEYING

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 1980
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE
COMBINED SCALE FACTOR: 1.0000444206
ORIGIN OF COORDINATE SYSTEM: N 289512.600, E 2078798.237

SR-179

USE THE FOLLOWING HORIZONTAL AND VERTICAL POSITIONING PARAMETERS FOR ALL SURVEYING

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 1980
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE
COMBINED SCALE FACTOR: 1.00007638365772
ORIGIN OF COORDINATE SYSTEM: N 341308.501, E 2072494.831

SR-514

USE THE FOLLOWING HORIZONTAL AND VERTICAL POSITIONING PARAMETERS FOR ALL SURVEYING

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 1980
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE
COMBINED SCALE FACTOR: 1.00007362743746
ORIGIN OF COORDINATE SYSTEM: N 323213.251, E 2061238.408

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS AT THE THREE PROJECT LOCATIONS :

HOL-62-5.06 (01/STR/CV)

659, TOPSOIL	43	CU
659, SEEDING AND MULCHING	389	SQ YD
659, REPAIR SEEDING AND MULCHING	19	SQ YD
659, COMMERCIAL FERTILIZER	0.09	TON
659, LIME	0.08	ACRES
659, WATER	2	M GAL

HOL-179-0.07 (02/NFA/CV)

659, TOPSOIL	121	CU
659, SEEDING AND MULCHING	1089	SQ YD
659, REPAIR SEEDING AND MULCHING	54	SQ YD
659, COMMERCIAL FERTILIZER	0.24	TON
659, LIME	0.23	ACRES
659, WATER	6	M GAL

HOL-514-1.41 (01/STR/CV)

659, TOPSOIL	111	CU
659, SEEDING AND MULCHING	997	SQ YD
659, REPAIR SEEDING AND MULCHING	50	SQ YD
659, COMMERCIAL FERTILIZER	0.22	TON
659, LIME	0.21	ACRES
659, WATER	6	M GAL

TOTAL (CARRIED TO GENERAL SUMMARY)

659, TOPSOIL	275	CU
659, SEEDING AND MULCHING	2475	SQ YD
659, REPAIR SEEDING AND MULCHING	123	CU YD
659, COMMERCIAL FERTILIZER	0.55	TON
659, LIME	0.52	ACRES
659, WATER	14	M GAL

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AS PER PLAN, (PG70-22M)

THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS OF CMS 703.05, EXCEPT DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED "SR" OR "SHR" AS DEFINED BY THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM OF WORK

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

HORIZONTAL AND VERTICAL CONTROL (SEE "SURVEY PARAMETERS" NOTE, THIS SHEET)

HOL-62-5.06 PID 105124

POINT ID	NORTHING	EASTING	ELEVATION	CODE	DESCRIPTION	STATION	OFFSET
S600	289512.600	2078798.237	932.97	IPINS	SIZE: 5/8" NAME: ODOT	26+85.80	21.97
S601	289510.151	2078945.908	931.19	IPINS	SIZE: 5/8" NAME: ODOT	25+38.14	18.76
CL1	289492.112	2079084.147	N/A	CSURV	SURVEY NAIL SET	24+00.00	CL
CL2	289490.153	2078706.292	N/A	CSURV	SURVEY NAIL SET	27+77.86	CL

HOL-179-0.07 PID 105124

POINT ID	NORTHING	EASTING	ELEVATION	CODE	DESCRIPTION	STATION	OFFSET
CL3	341386.673	2072520.332	N/A	CSURV	SURVEY NAIL SET	3+00.00	CL
CL4	341686.663	2072517.780	N/A	CSURV	SURVEY NAIL SET	6+00.00	CL
S600	341308.501	2072494.832	1119.600	IPINS	SIZE: 5/8" NAME: ODOT	2+22.05	-26.17
S601	341608.967	2072542.393	1118.31	IPINS	SIZE: 5/8" NAME: ODOT	5+22.10	23.95

HOL-514-1.41 PID 105124

POINT ID	NORTHING	EASTING	ELEVATION	CODE	DESCRIPTION	STATION	OFFSET
CL5	323235.488	2061214.072	0.00	CSURV	SURVEY NAIL SET	74+00.00	CL
CL6	323413.477	2061305.286	0.00	CSURV	SURVEY NAIL SET	76+00.00	CL
S600	323213.251	2061238.408	1215.712	IPINS	SIZE: 5/8" NAME: ODOT	73+91.31	31.80
S601	323505.879	2061319.854	1221.540	IPINS	SIZE: 5/8" NAME: ODOT	76+88.88	-29.18

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GENERAL NOTES

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ITEM 670 - SLOPE EROSION PROTECTION

SLOPE EROSION PROTECTION SHALL BE PROVIDED ON ALL PROPOSED 2:1 SLOPES. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR THE FOLLOWING LOCATIONS:

HOL-62-5.06 (01/STR/CV)
79 SY

HOL-179-0.07 (02/NFA/CV)
405 SY

HOL-514-1.41 (01/STR/CV)
279 SY

TOTAL ITEM 670-SLOPE EROSION PROTECTION MAT, TYPE A = 763 SY (CARRIED TO GENERAL SUMMARY)

ITEM 670 - DITCH EROSION PROTECTION

DITCH EROSION PROTECTION SHALL BE PROVIDED ON ALL PROPOSED DITCH BOTTOMS. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR THE FOLLOWING LOCATIONS:

HOL-179-0.07 (02/NFA/CV)
292 SY

HOL-514-1.41 (01/STR/CV)
163 SY

TOTAL ITEM 670-DITCH EROSION PROTECTION MAT, TYPE A = 455 SY (CARRIED TO GENERAL SUMMARY)

WATERS OF THE US PLAN NOTE:

WATERS OF THE US HAVE BEEN IDENTIFIED WITHIN THE PROJECT AREA. THESE FEATURES ARE SHOWN IN THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL EXERCISE CAUTION TO ENSURE THAT NO IMPACTS OCCUR TO ANY WATERS OF THE US IN EXCESS OF THE IMPACTS DEPICTED BY THE CONSTRUCTION LIMITS IN THE PLANS.

ANY OTHER SITE PROPOSED BY THE CONTRACTOR FOR OFF PROJECT ANCILLARY CONSTRUCTION (STAGING AREAS, WASTE LOCATIONS, AND/OR BORROW LOCATIONS) MUST MEET THE REQUIREMENTS OF CMS 105.16.

ENDANGERED BAT HABITAT REMOVAL

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 304 - AGGREGATE BASE, AS PER PLAN

PROVIDE VARIABLE THICKNESS ITEM 304 - AGGREGATE BASE TO FILL THE VOID FROM THE REMOVAL OF THE EXISTING ASPHALT PAVEMENT AND THE PROPOSED PAVEMENT BUILDUP. THE APPROXIMATE THICKNESS IS 9" FOR ESTIMATING PURPOSES.

ITEM SPECIAL - MAILBOX REMOVED AND RESET

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX REMOVED AND RESET.

FOUNDATION BEARING PRESSURE

HOL-62-5.06: BEARING SOILS MEET MINIMUM SOIL STRENGTH CRITERIA AS DETAILED IN SCD HW-1.1.

HOL-179-0.07: WINGWALL AND CULVERT FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM BEARING PRESSURE (USING LRFD FACTORS) OF 1329 PSF. THE ALLOWABLE BEARING PRESSURE IS 1541 PSF.

HOL-514-1.41: BEARING SOILS MEET MINIMUM SOIL STRENGTH CRITERIA AS DETAILED IN SCD HW-1.1.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR IS HEREBY ADVISED THAT THE FOLLOWING PROJECTS:

HOL-39-2.40/2.59, PID:105123
HOL-514-0.00, PID: 107511

MAY BE UNDER CONSTRUCTION DURING THE SAME PERIODS THAT THIS PROJECT IS TO BE CONSTRUCTED. UPON AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OTHER CONTRACTORS OF THE EFFECTS OF THIS CONTRACT UPON THE HOL-39-2.40/2.59 & HOL-514-0.00 PROJECTS. THE CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS IN ACCORDANCE WITH SEC. 105.08 AND ARRANGE A MUTUALLY ACCEPTABLE WORK SCHEDULE, SUBJECT TO THE APPROVAL OF THE ENGINEER. ANY CONFLICTS BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREAS OR COOPERATION WILL BE RESOLVED BY THE ENGINEER

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SEQUENCE OF CONSTRUCTION

CULVERT REPLACEMENTS PLANNED FOR THIS PROJECT SHALL BE COMPLETED UNDER FULL CLOSURE AND DETOUR AS DETAILED WITHIN. US-62, SR-179 OR SR 514 SHALL NOT BE CLOSED CONCURRENTLY. SPECIFIC REQUIREMENTS FOR EACH LOCATION ARE AS FOLLOWS:

HOL-62-5.06

THE US-62 DETOUR SHALL BE LIMITED TO 14 DAYS MAXIMUM DURATION. ACCESS SHALL BE MAINTAINED TO THE PROPERTIES ADJACENT TO THE CULVERT AT ALL TIMES.

HOL-179-0.07

THE SR-179 DETOUR SHALL BE LIMITED TO 14 DAYS MAXIMUM DURATION.

HOL-514-1.41

THE SR-514 DETOUR SHALL BE LIMITED TO 14 DAYS MAXIMUM DURATION.

ITEM 614, MAINTAINING TRAFFIC

THE DETOUR FOR HOL-514-1.41 SHALL NOT BEGIN PRIOR TO MAY 1, 2021. THE DETOUR SHALL END, AND SR 514 SHALL BE REOPENED TO TRAFFIC PRIOR TO JUNE 1, 2021.

THE DETOUR FOR HOL-179-0.07 SHALL NOT BEGIN PRIOR TO JUNE 1, 2021. THE DETOUR SHALL END, AND SR 179 SHALL BE REOPENED TO TRAFFIC PRIOR TO JULY 1, 2021.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 14 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 8, 9 & 11. THE 14 DAY CLOSURE PERIODS MUST OCCUR DURING THE SUMMER WHEN LOCAL SCHOOLS ARE NOT IN SESSION. DISINCENTIVE SHALL BE ASSESSED FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT AS SHOWN BELOW.

HOL-62-5.06 - \$11,492 PER DAY

HOL-179-0.07 - \$5,138 PER DAY

HOL-514-1.41 - \$9,570 PER DAY

THE ROAD SHALL NOT BE DETOURED UNTIL THE CONTRACTOR IS READY TO REMOVE THE EXISTING STRUCTURE. UNTIL THE DETOUR IS PLACED INTO EFFECT, TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. DETOUR SIGNS AND SUPPORTS WILL BE ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

PRIOR TO OPENING THE ROADWAY TO TRAFFIC THE PAVEMENT BUILD-UP THROUGH THE INTERMEDIATE COURSE SHALL BE COMPLETED AND TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PLACED, THAT MAY INCLUDE TEMPORARY SIGNS, PAVEMENT MARKINGS, AND CHANNELIZING DEVICES. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WHILE REMAINING WORK IS COMPLETED.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

HOL-62-5.06 (01/STR/CV)

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
10 CU. YD.

HOL-179-0.07 (02/NFA/CV)

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
10 CU. YD.

HOL-514-1.41 (01/STR/CV)

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
10 CU. YD.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD CLOSURE	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION.

US 62 WILL BE
CLOSED MMM-DD
FOR 14 DAYS
INFO: 330-339-6633

W20-H13-60

SR 179 WILL BE
CLOSED MMM-DD
FOR 14 DAYS
INFO: 330-339-6633

W20-H13-60

SR 514 WILL BE
CLOSED MMM-DD
FOR 14 DAYS
INFO: 330-339-6633

W20-H13-60

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE PROJECT LIMITS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

ACCESS TO LOCAL PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES. AS PER SECTION 107.10 OF THE CMS, ANY DISTURBANCE TO PRIVATE PROPERTY SHALL BE RESTORED TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE DAMAGE OR INJURY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS SHOWN ON SHEET NO. 8, 9 & 11. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

HOL-62-5.06 (01/STR/CV)

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR (441)
200 SQ. YD. (SEE NOTE)

ITEM 617, COMPACTED AGGREGATE
25 CU. YD.

HOL-179-0.07 (02/NFA/CV)

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR (441)
200 SQ. YD. (SEE NOTE)

ITEM 617, COMPACTED AGGREGATE
25 CU. YD.

HOL-514-1.41 (01/STR/CV)

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR (441)
200 SQ. YD. (SEE NOTE)

ITEM 617, COMPACTED AGGREGATE
25 CU. YD.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

HOL-62-5.06 (01/STR/CV)

ITEM 616, WATER 5 M. GAL.

HOL-179-0.07 (02/NFA/CV)

ITEM 616, WATER 5 M. GAL.

HOL-514-1.41 (01/STR/CV)

ITEM 616, WATER 5 M. GAL.

WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT

HOL-62-5.06 (01/STR/CV) USE 0.01 MILE
HOL-179-0.07 (02/NFA/CV) USE 0.01 MILE
HOL-514-1.41 (01/STR/CV) USE 0.02 MILE

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE **SPECIAL HAULING PERMITS SECTION** (HAULING.PERMITS@DOT.OHIO.GOV) AND THE **DISTRICT PUBLIC INFORMATION OFFICE (PIO)**. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	NA	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

THIS ITEM SHALL CONFORM TO CMS 251 EXCEPT 2 INCHES OF ASPHALT SURFACE COURSE WILL BE REQUIRED, AND WIDTHS AND LENGTHS ARE DETERMINED BY THE ENGINEER.

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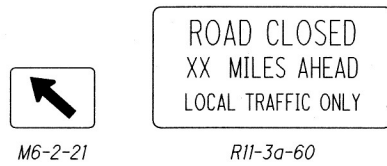
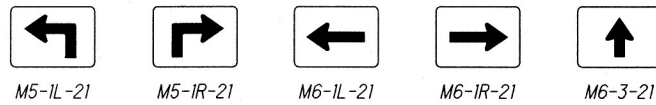
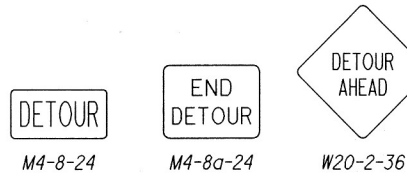
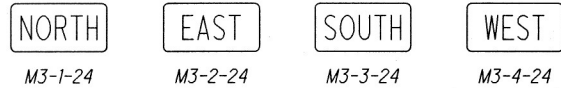
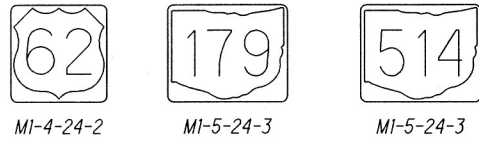
MAINTENANCE OF TRAFFIC GENERAL NOTES

**HOL 62 / VAR
5.06 / VAR**

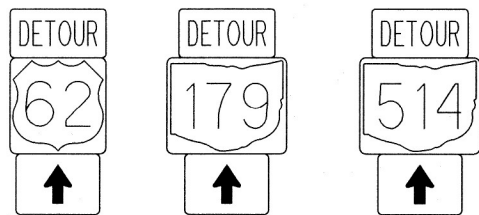
ITEM 614, DETOUR SIGNING

THE FOLLOWING SIGNS SHALL BE ERECTED ALONG THE DESIGNATED OFFICIAL DETOUR ROUTES AND SHALL BE ASSEMBLED AS SHOWN ON THE DETOUR PLANS. ALL DETOUR SIGNING SHALL BE INSTALLED BEFORE COMMENCING WITH THE DETOUR.

EACH SIGN ASSEMBLY SHALL BE PLACED 100 FT. (OR AS DIRECTED) IN ADVANCE OF THE IMPENDING CHANGE OF ROUTE. OFFSET SHALL BE PER STANDARD CONSTRUCTION DRAWING TC-42.20.



IN ADDITION TO THE SIGNS LISTED ABOVE AND SHOWN ON THE DETOUR MAPS, PLACE THE FOLLOWING SIGN ASSEMBLY:



AT INTERVALS NOT TO EXCEED 2 MILES IN RURAL AREAS AND AT INTERVALS NOT TO EXCEED 2 BLOCKS WITHIN URBANIZED AREAS. IT IS ANTICIPATED THAT 22 U.S. 62 SIGN ASSEMBLIES, 10 S.R. 179 SIGN ASSEMBLIES AND 22 S.R. 514 SIGN ASSEMBLIES WILL BE REQUIRED TO MEET THIS MAXIMUM SPACING.

ALL ANTICIPATED QUANTITIES ARE SHOWN IN THE TABLE BELOW AND ARE PROVIDED FOR INFORMATION ONLY.

HOL-62-5.06		
SIGN CODE	NO. OF SIGNS	SIZE
M4-8-24	34	24" X 12"
M1-4-24-1	39	24" X 24"
M3-4-24	8	24" X 12"
M3-2-24	9	24" X 12"
M6-3-21	25	21" X 15"
M5-1R-21	2	21" X 15"
M5-1L-21	2	21" X 15"
M6-1R-21	2	21" X 15"
M6-1L-21	3	21" X 15"
W20-2-36	3	36" X 36"
M4-8A-24	2	24" X 18"
R11-3A-60	2	60" X 30"
M4-10L-48	3	48" X 18"
M4-10R-48	2	48" X 18"

HOL-179-0.07		
SIGN CODE	NO. OF SIGNS	SIZE
M4-8-24	31	24" X 12"
M1-5-24-3	37	30" X 24"
M3-1-24	9	24" X 12"
M3-3-24	16	24" X 12"
M6-3-21	18	21" X 15"
M5-1R-21	3	21" X 15"
M5-1L-21	3	21" X 15"
M6-1R-21	3	21" X 15"
M6-1L-21	3	21" X 15"
M6-2-21	1	21" X 15"
W20-2-36	4	36" X 36"
M4-8A-24	2	24" X 18"
R11-3A-60	3	60" X 30"
M4-10L-48	2	48" X 18"
M4-10R-48	4	48" X 18"

HOL-514-1.41		
SIGN CODE	NO. OF SIGNS	SIZE
M4-8-24	43	24" X 12"
M1-5-24-3	47	30" X 24"
M3-1-24	9	24" X 12"
M3-3-24	11	24" X 12"
M6-3-21	27	21" X 15"
M5-1R-21	4	21" X 15"
M5-1L-21	4	21" X 15"
M6-1R-21	4	21" X 15"
M6-1L-21	4	21" X 15"
W20-2-36	3	36" X 36"
M4-8A-24	2	24" X 18"
R11-3A-60	2	60" X 30"
M4-10L-48	2	48" X 18"
M4-10R-48	2	48" X 18"

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, DETOUR SIGNING, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- * DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- * DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- * FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

HOL-62-5.06 (01/STR/CV)
ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 8 HOURS

HOL-179-0.07 (02/NFA/CV)
ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 8 HOURS

HOL-514-1.41 (01/STR/CV)
ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 8 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

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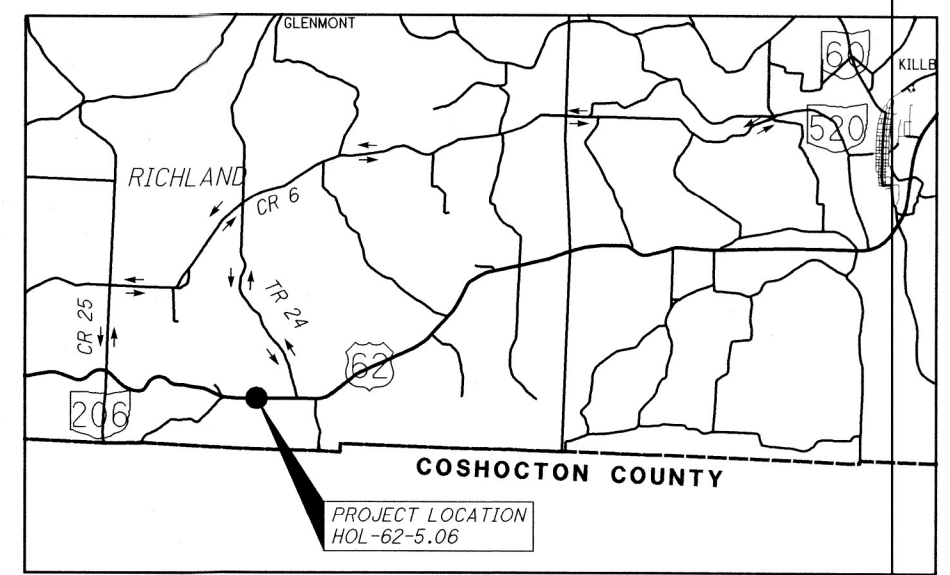
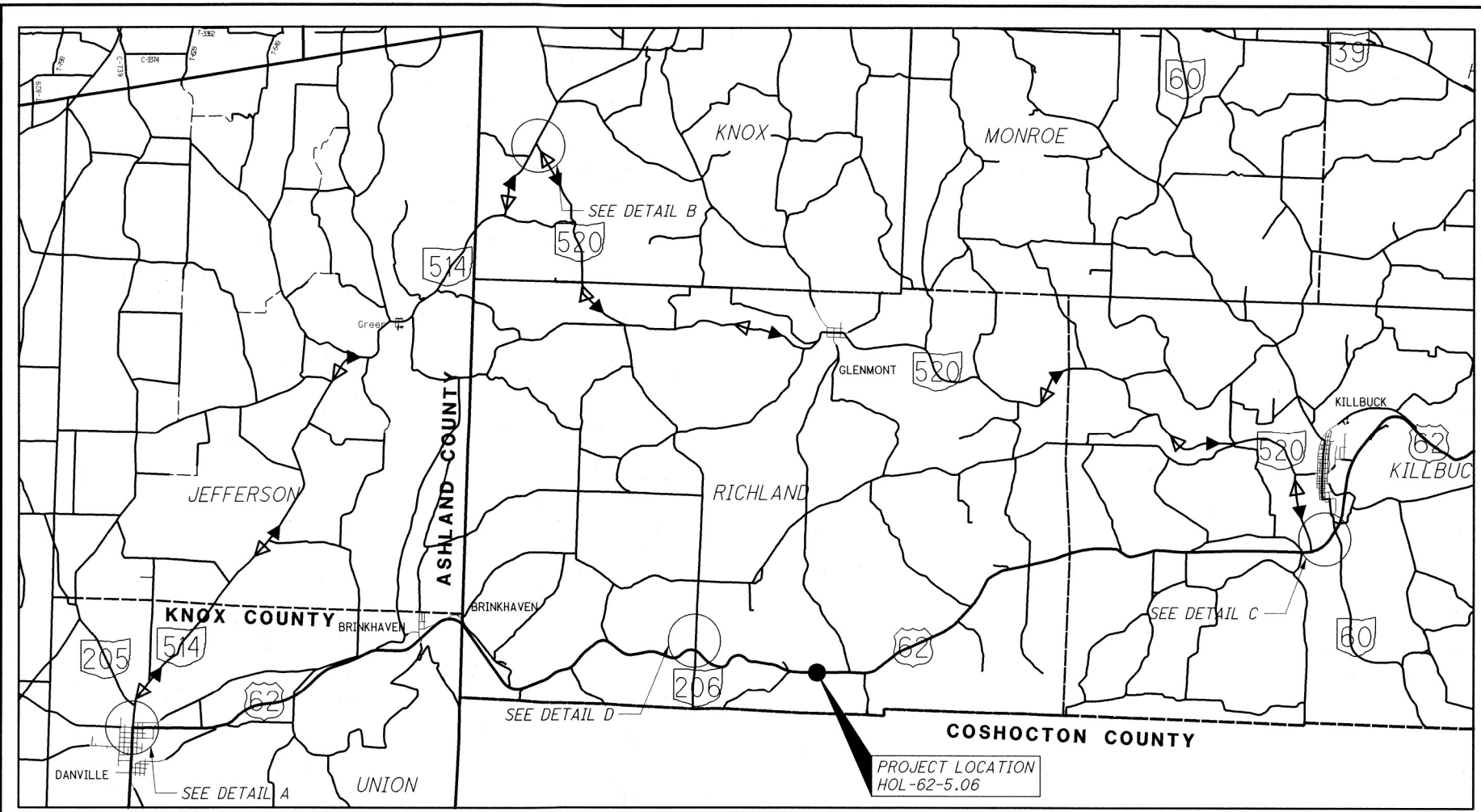
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MAINTENANCE OF TRAFFIC GENERAL NOTES

HOL 62 / VAR
5.06 / VAR

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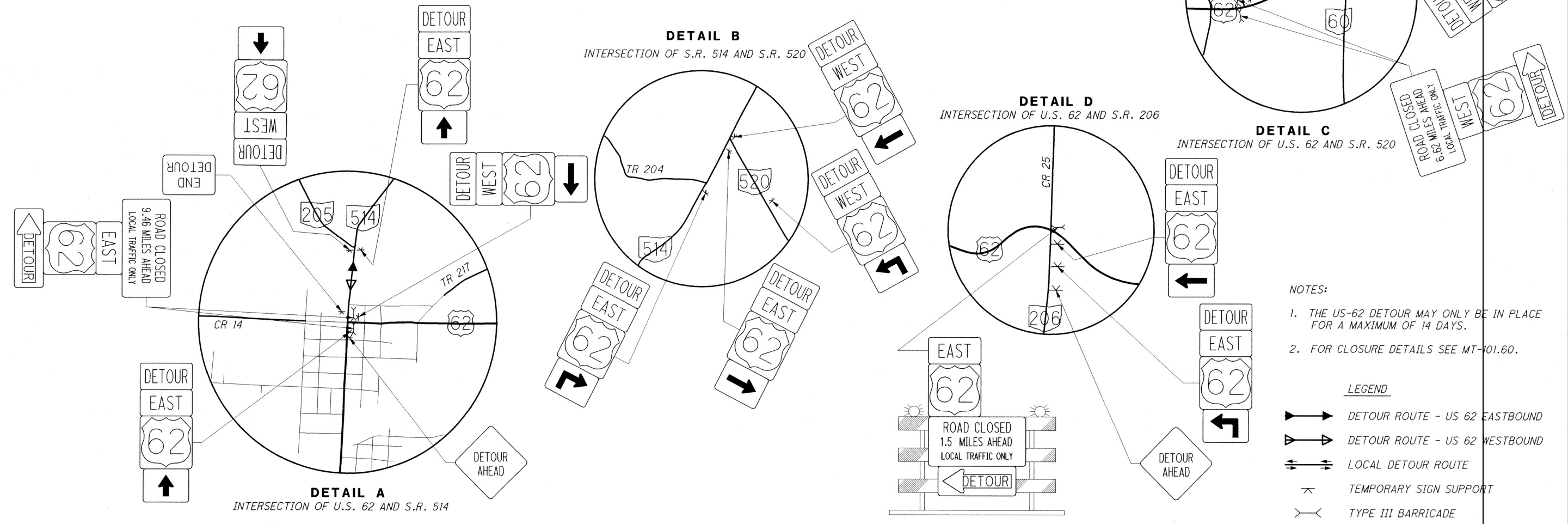


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**HOL 62/VAR
5.06/VAR**

MAINTENANCE OF TRAFFIC - DETOUR PLAN - HOL-62-5.06

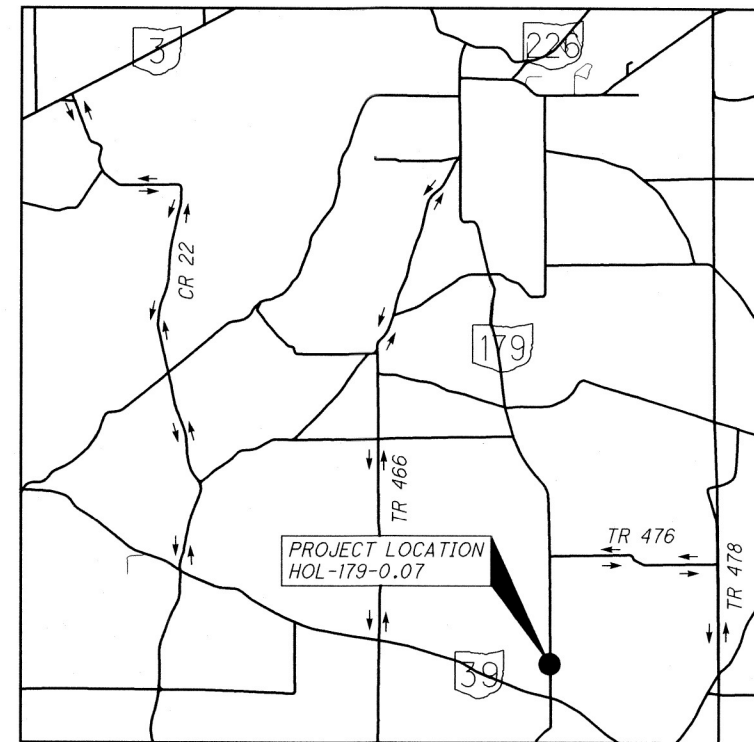
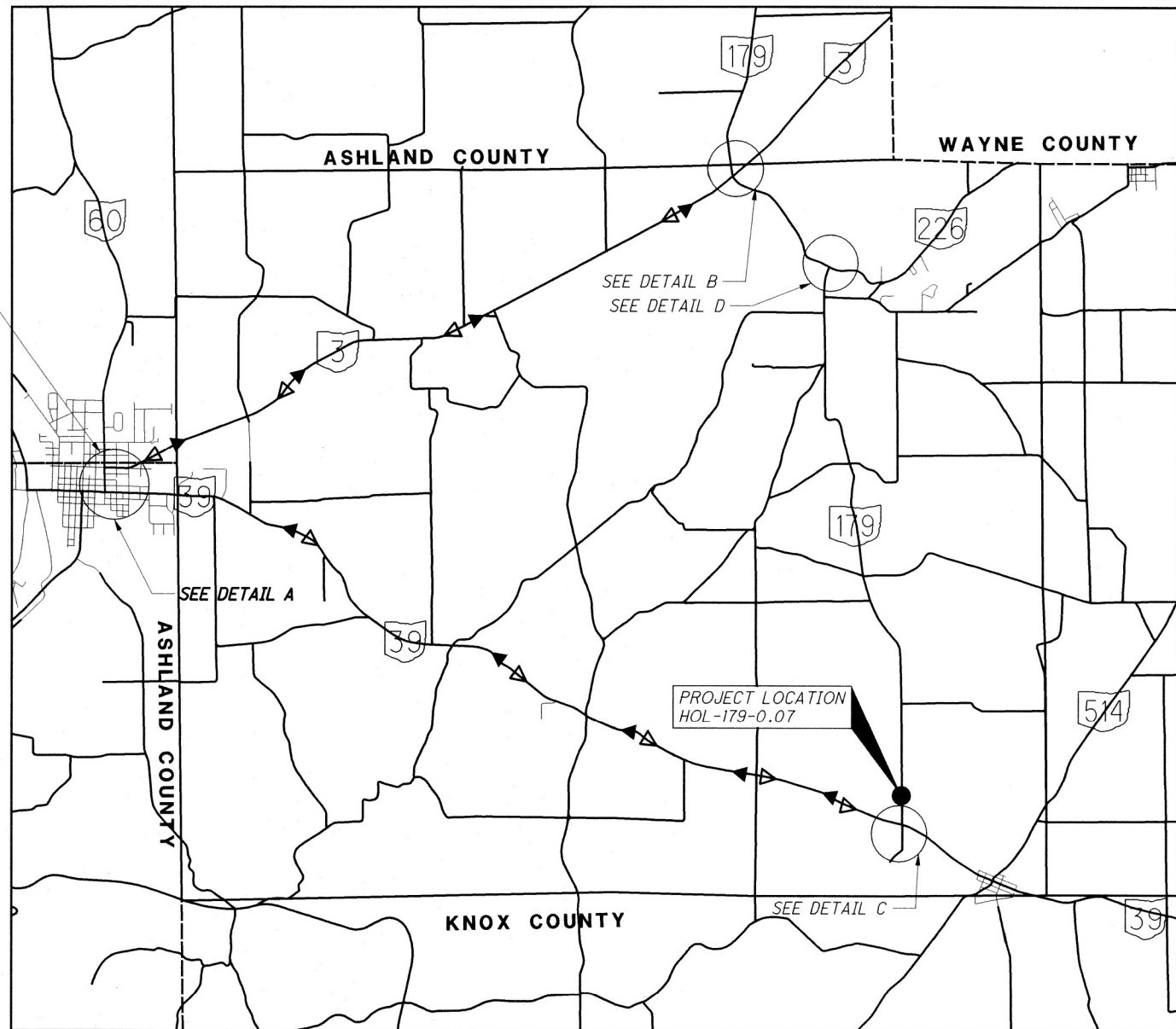
OFFICIAL SIGNED DETOUR ROUTE



- NOTES:**
1. THE US-62 DETOUR MAY ONLY BE IN PLACE FOR A MAXIMUM OF 14 DAYS.
 2. FOR CLOSURE DETAILS SEE MT-V01.60.

- LEGEND**
- DETOUR ROUTE - US 62 EASTBOUND
 - DETOUR ROUTE - US 62 WESTBOUND
 - LOCAL DETOUR ROUTE
 - TEMPORARY SIGN SUPPORT
 - TYPE III BARRICADE

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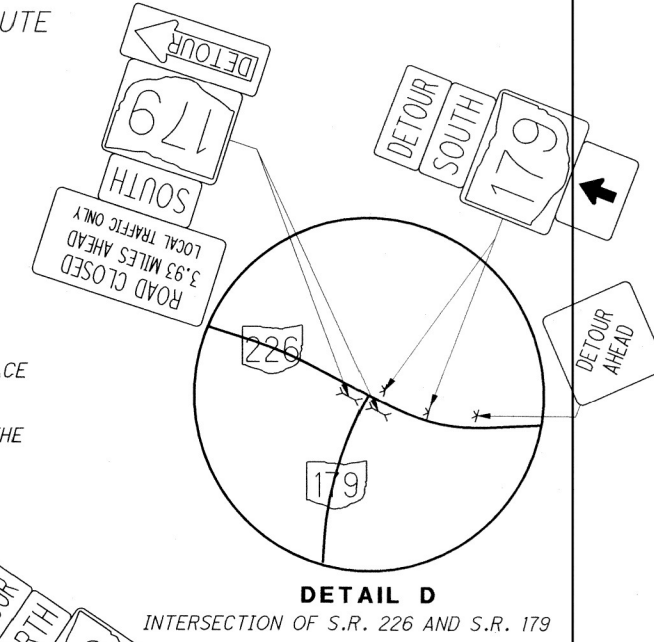
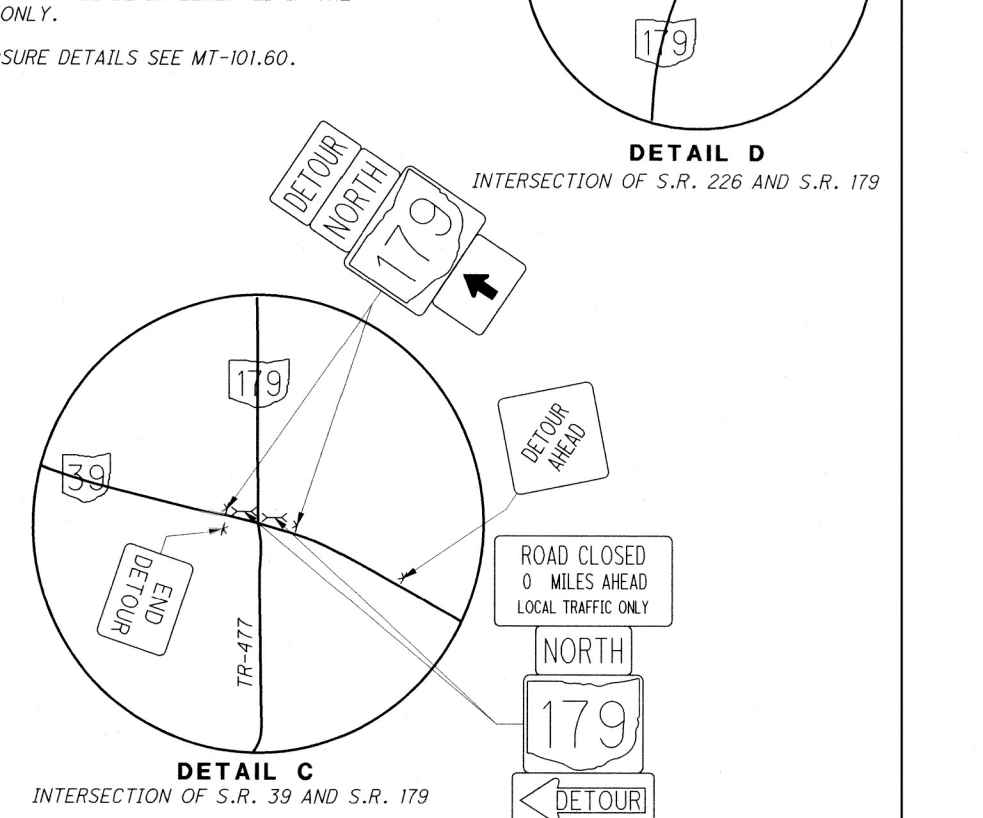
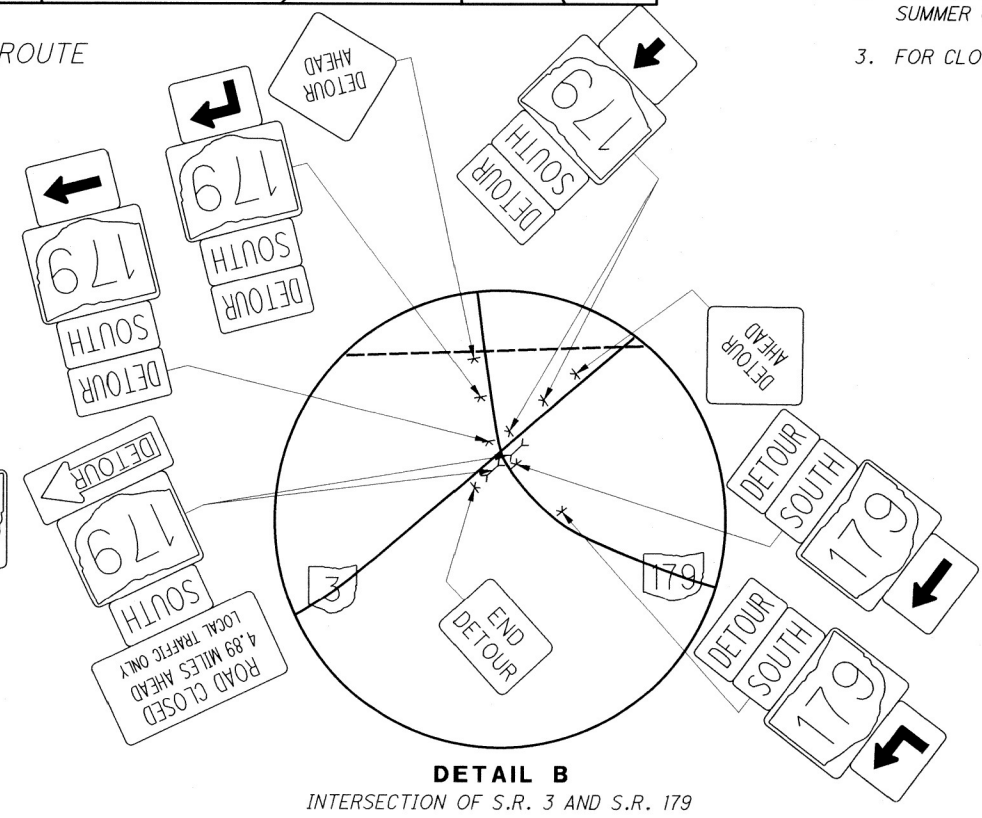
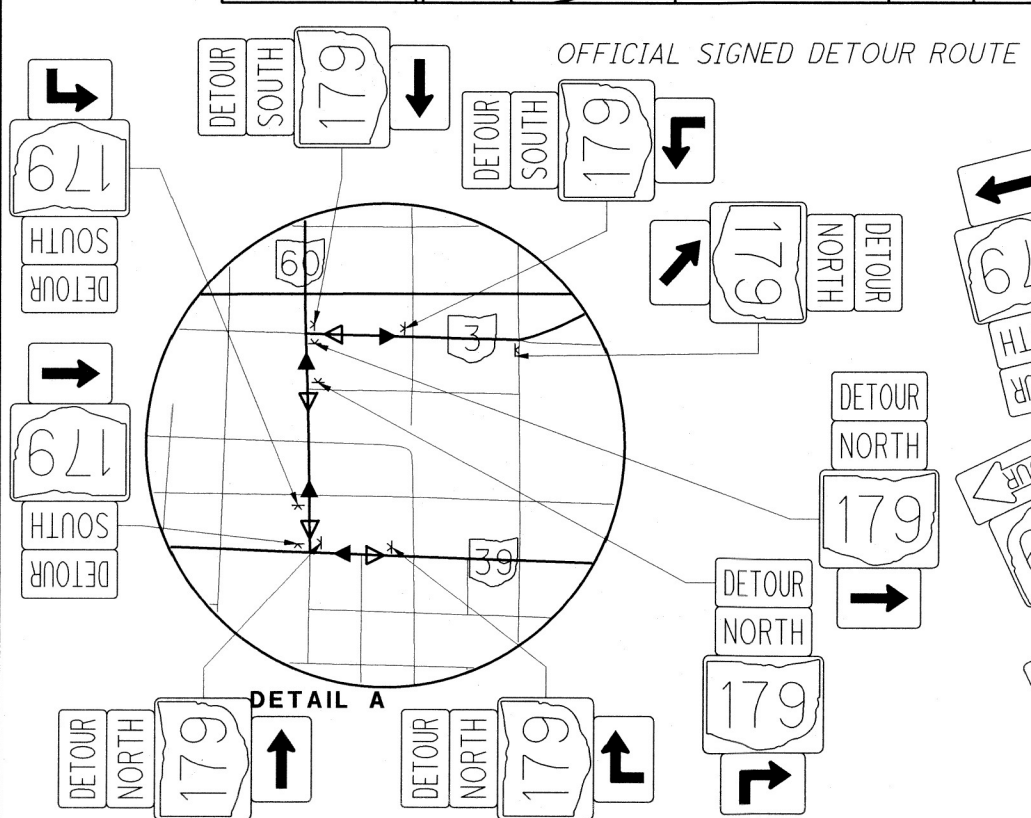


LEGEND

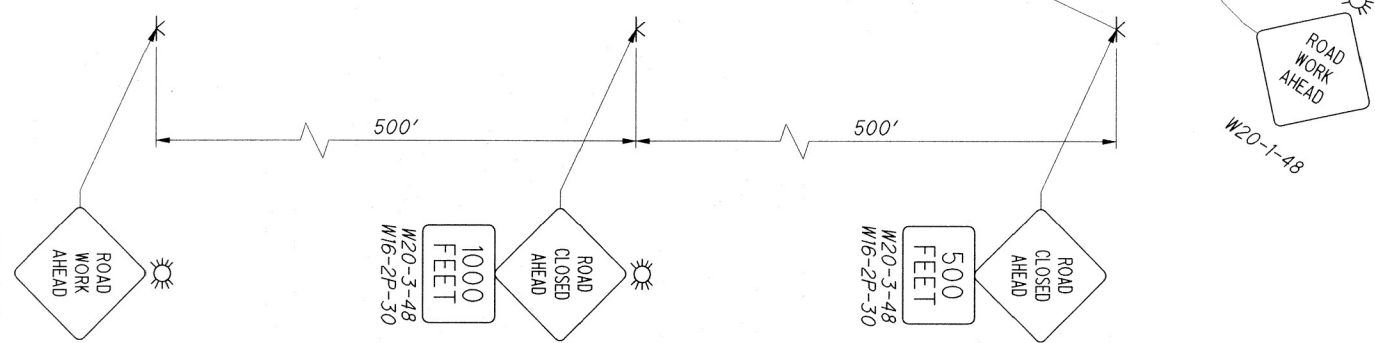
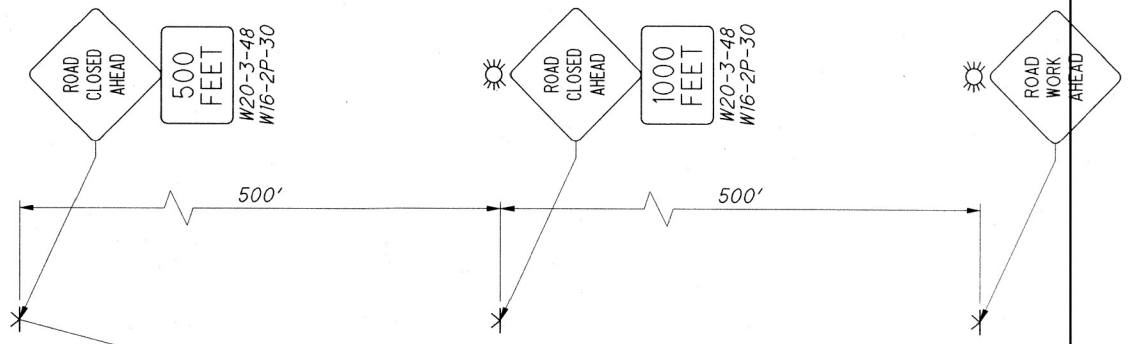
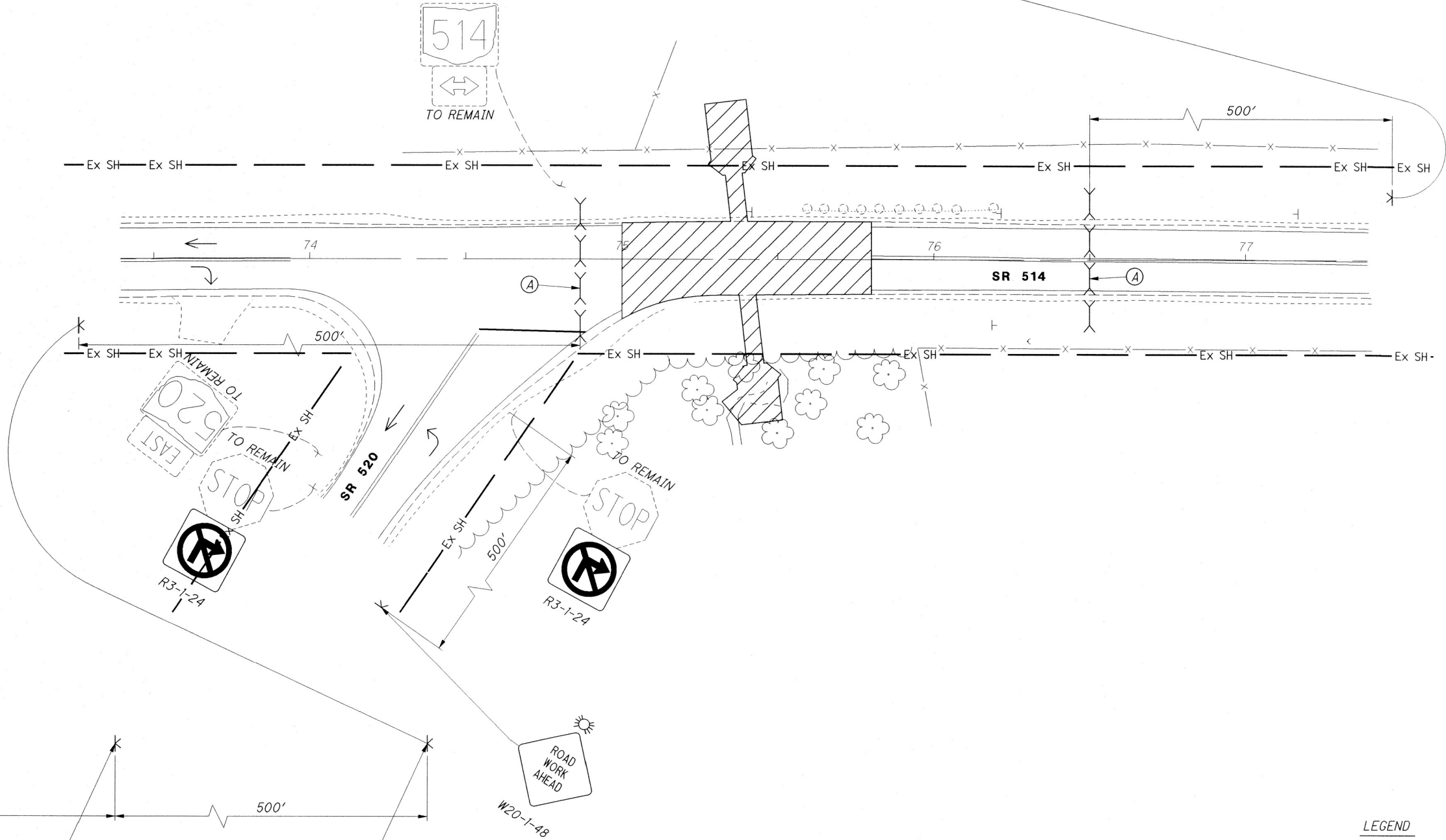
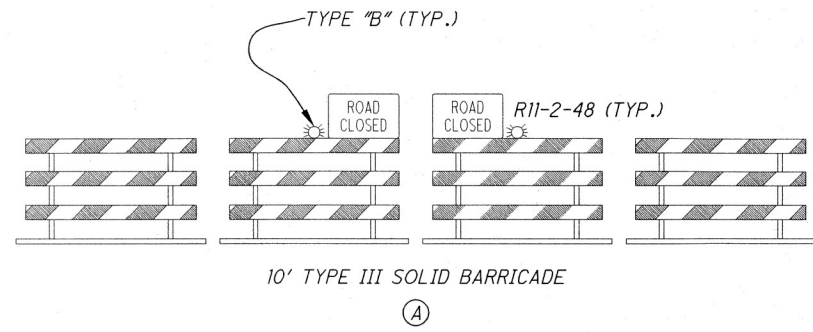
- DETOUR ROUTE - SR 179 NORTHBOUND
- DETOUR ROUTE - SR 179 SOUTHBOUND
- LOCAL DETOUR ROUTE
- TEMPORARY SIGN SUPPORT
- TYPE III BARRICADE

NOTES:

1. THE SR-179 CLOSURE MAY ONLY BE IN PLACE FOR A MAXIMUM OF 14 DAYS.
2. THE DETOUR SHALL BE IMPLEMENTED IN THE SUMMER ONLY.
3. FOR CLOSURE DETAILS SEE MT-101.60.



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- LEGEND
- WORK ZONE
 - TEMPORARY SIGN SUPPORT
 - TYPE III BARRICADE
 - OPEN TRAVEL LANE

HOL 62 / VAR

5.06 / VAR

MAINTENANCE OF TRAFFIC PLAN - SR 514

STA. 73+50 TO STA. 77+50

W20-1-48

10

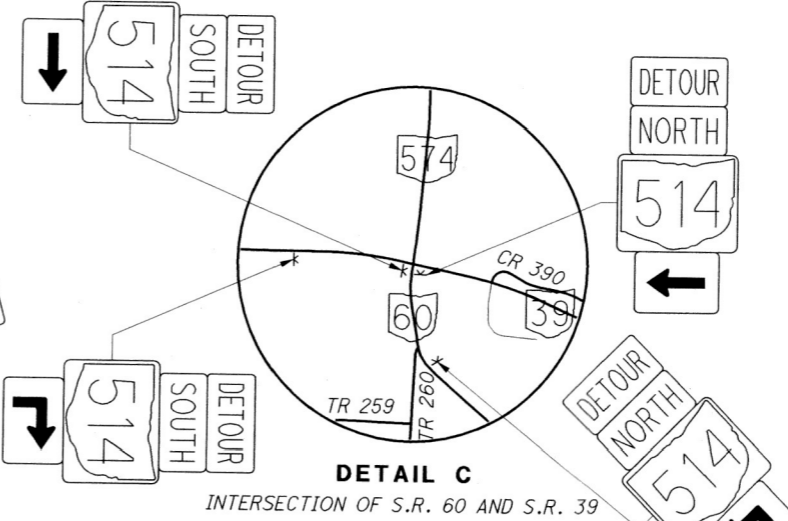
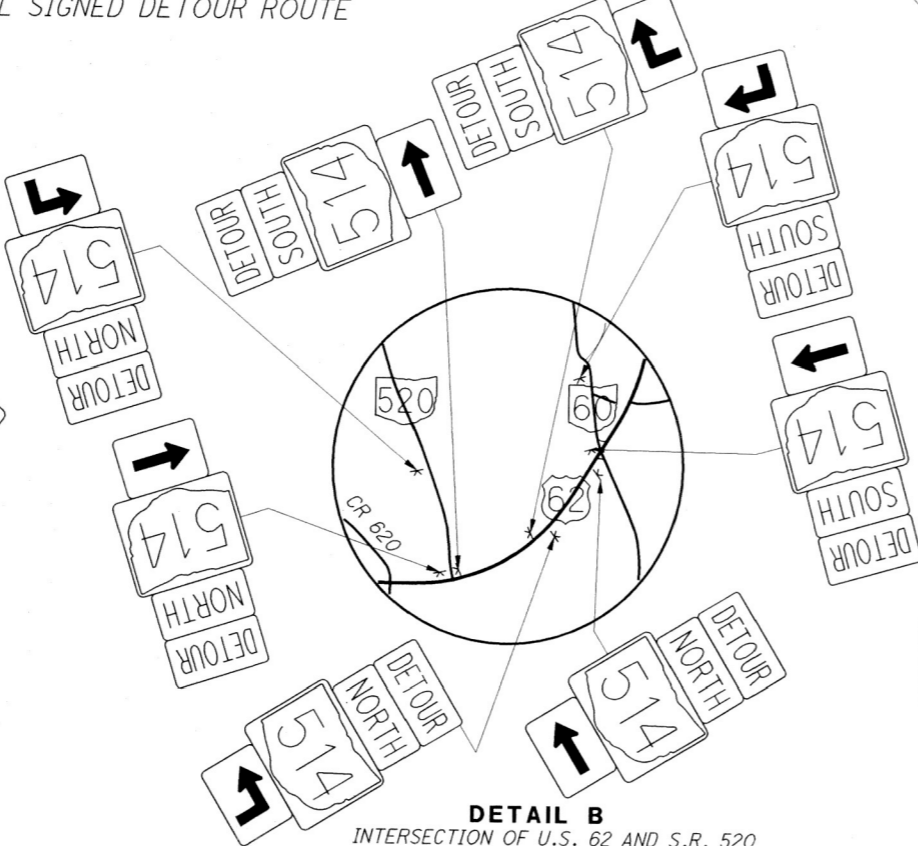
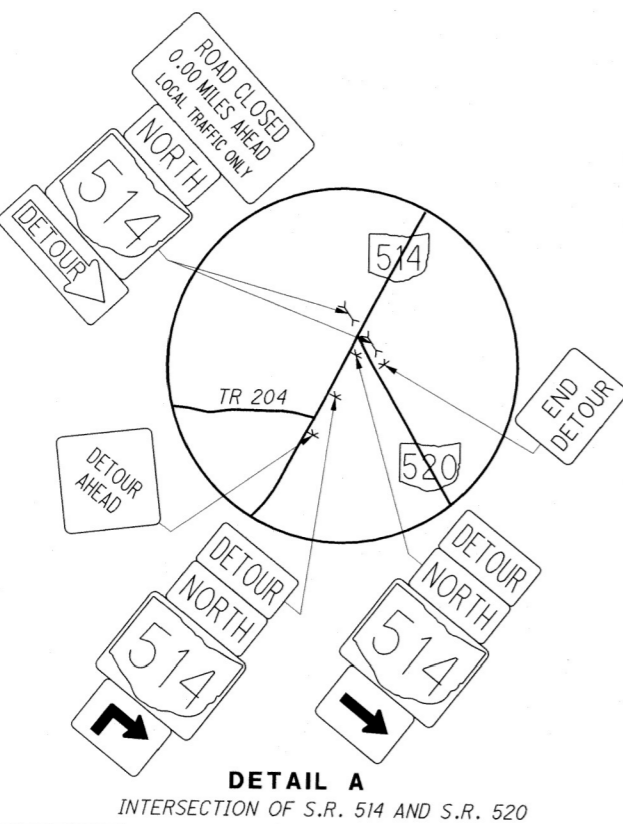
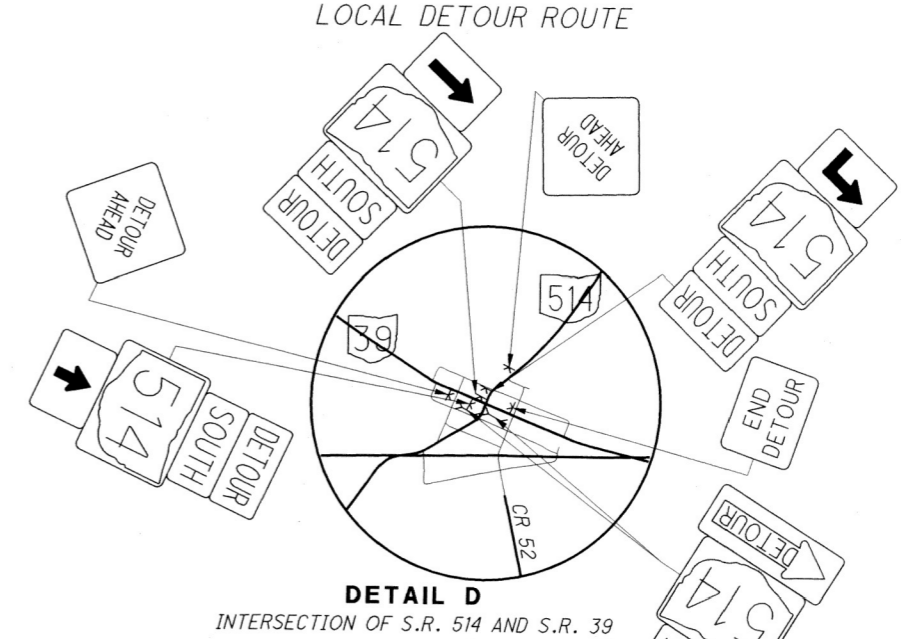
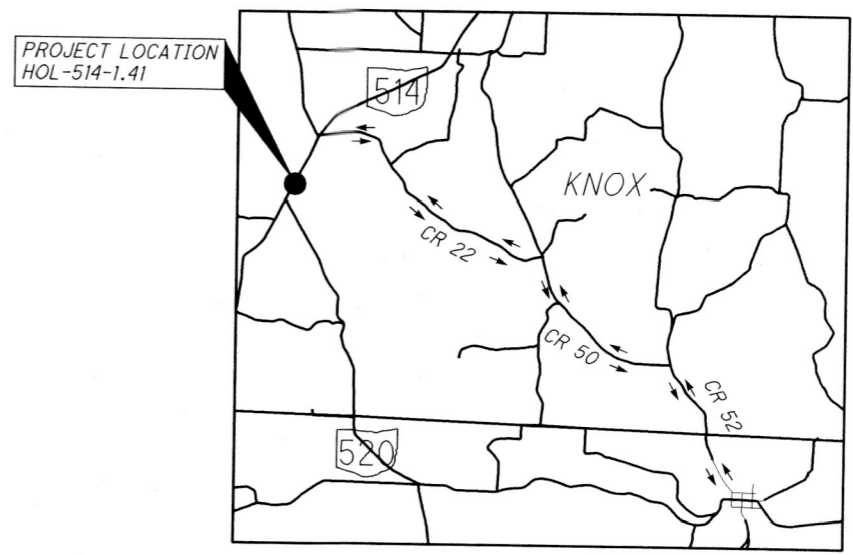
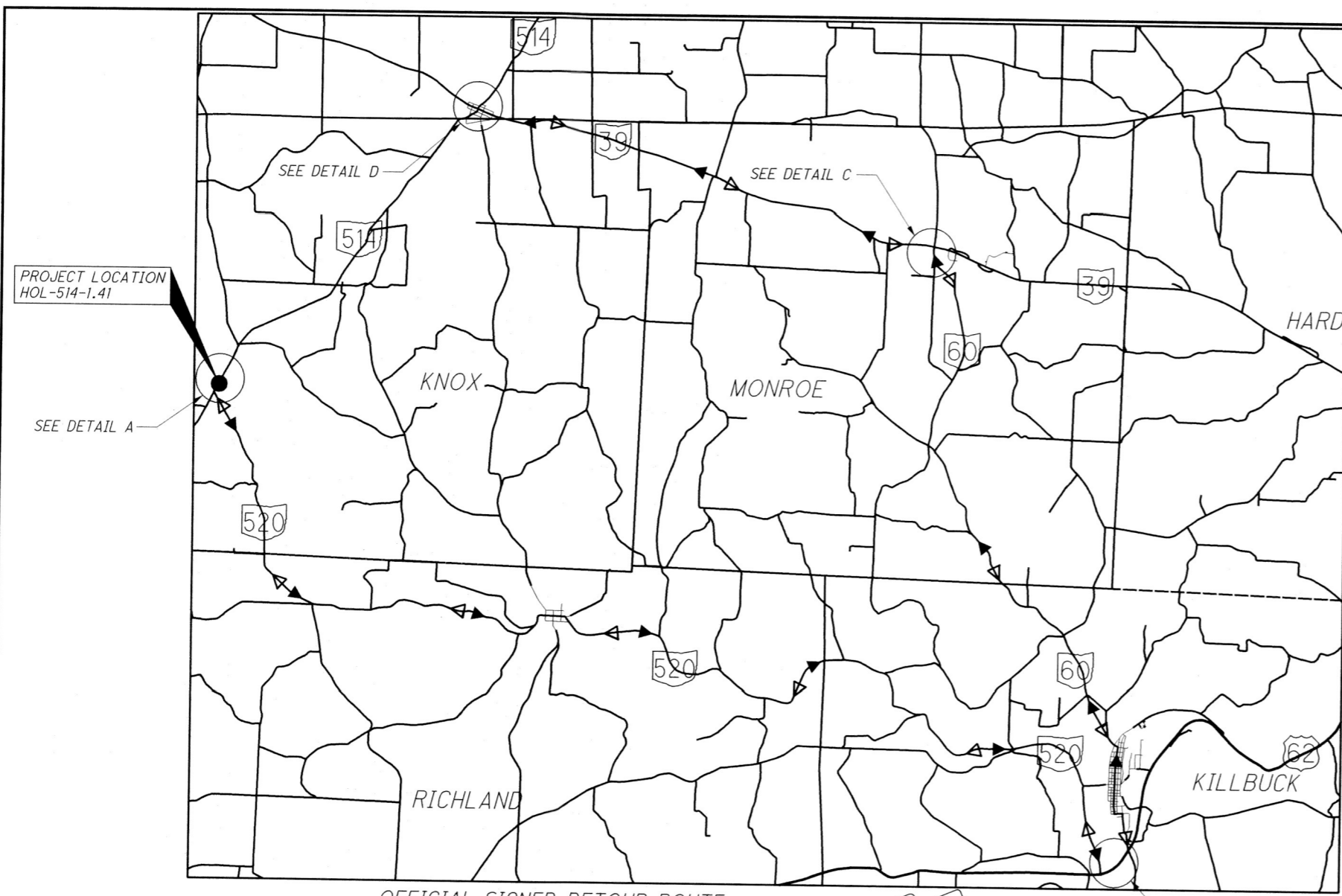
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- NOTES:
1. THE SR-514 CLOSURE MAY ONLY BE IN PLACE FOR A MAXIMUM OF 14 DAYS.
 2. THIS DETOUR SHALL NOT BE IMPLEMENTED CONCURRENTLY WITH THE SR-179 OR US-62 DETOURS.
 3. FOR CLOSURE DETAILS INCLUDING BARRICADE LOCATIONS, SEE SHEET 10.

- LEGEND
- DETOUR ROUTE - SR 514 NORTHBOUND
 - DETOUR ROUTE - SR 514 SOUTHBOUND
 - LOCAL DETOUR ROUTE
 - TEMPORARY SIGN SUPPORT
 - TYPE III BARRICADE



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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	14	16	20	22	27	29	33	40	01/STR/CV	02/NFA/CV						
ROADWAY																		
LS											LS	LS	201	11000	LS		CLEARING AND GRUBBING	
				2		2		2			4	2	202	20010	6	EACH	HEADWALL REMOVED	
			427								311	116	202	23000	427	SY	PAVEMENT REMOVED, (ASPHALT)	
				81				25			106		202	35100	106	FT	PIPE REMOVED, 24" AND UNDER	
				37				52			89	50	202	35200	139	FT	PIPE REMOVED, OVER 24"	
												281	202	38000	281	FT	GUARDRAIL REMOVED	
								183			183		202	75000	183	FT	FENCE REMOVED	
			475								352	123	204	10000	475	SY	SUBGRADE COMPACTION	
					101				348		444	348	203	10000	792	CY	EXCAVATION	
					100			321		343	241	321	203	20000	562	CY	EMBANKMENT	
				62.5				237.5			62.5	237.5	606	15100	300	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
												2	606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350 OR MASH 2016)	
				2							2	2	606	26500	4	EACH	ANCHOR ASSEMBLY, TYPE T	
				1							1		SPECIAL	69050350	1	EACH	MAILBOX REMOVED AND RESET	
EROSION CONTROL																		
				32				16			70	16	601	11000	86	SY	RIPRAP, TYPE D	
											25		601	32000	25	CY	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	
				14							14	16	601	32100	30	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
				6							6		601	32200	6	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
											154	121	659	00300	275	CY	TOPSOIL	
275											1,386	1,089	659	10000	2,475	SY	SEEDING AND MULCHING	
2,475											69	54	659	14000	123	SY	REPAIR SEEDING AND MULCHING	
123											0.31	0.24	659	20000	0.55	TON	COMMERCIAL FERTILIZER	
0.55											0.29	0.23	659	31000	0.52	ACRE	LIME	
0.52																		
14											8	6	659	35000	14	MGAL	WATER	
	763										358	405	670	00510	763	SY	SLOPE EROSION PROTECTION MAT, TYPE A	
	455										163	292	670	00710	455	SY	DITCH EROSION PROTECTION MAT, TYPE A	
											19,865	8,097	832	30000	27,962	EACH	EROSION CONTROL	
DRAINAGE																		
				21.8							42.8	17.2	602	20000	60	CY	CONCRETE MASONRY	
				98							98		611	06400	98	FT	15" CONDUIT, TYPE D	
												54	611	20700	54	FT	48" CONDUIT, TYPE A, 707.02 (0.249), 706.02, 707.33	
				62							62		611	22200	62	FT	54" CONDUIT, TYPE A, 707.02 (0.188) WITH CONCRETE INVERT PAVING, 706.02, 707.33	
								64			64		611	22200	64	FT	54" CONDUIT, TYPE A, 707.02 (0.28), 706.02, 707.33	
PAVEMENT																		
		600									400	200	251	01000	600	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
			286								199	87	254	01000	286	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	
			62								42	20	301	46000	62	CY	ASPHALT CONCRETE BASE, PG64-22	
			62								42	20	304	20000	62	CY	AGGREGATE BASE	
											27		304	20001	27	CY	AGGREGATE BASE, AS PER PLAN	
											48	22	407	10000	70	GAL	TACK COAT	
											19	7	441	50101	26	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG70-22M)	
											12	6	441	50200	18	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
TRAFFIC CONTROL																		
										4	2	2	621	00100	4	EACH	RPM	
										4	2	2	621	54000	4	EACH	RAISED PAVEMENT MARKER REMOVED	
				2							2	6	626	00110	8	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)	
										42	14	28	630	03100	42	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
										4	4		630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
										4	2	2	630	85100	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
										8	6	2	630	86002	8	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
										0.08	0.05	0.03	646	10010	0.08	MILE	EDGE LINE, 6"	
										0.04	0.03	0.01	646	10200	0.04	MILE	CENTER LINE	

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GENERAL SUMMARY

HOL 62 / VAR
5.06 / VAR

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DESCRIPTION	STATION RANGE		TYPICAL SECTION	SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SY	CADD GENERATED AREA SY	202	204	254	301	304	304	304	407	407	441	441	441
									PAVEMENT REMOVED, (ASPHALT) SY	SUBGRADE COMPACTION SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.25") SY	ASPHALT CONCRETE BASE, PG64-22 (MAX 6" LIFT) CY	AGGREGATE BASE, 6" CY	AGGREGATE BASE, 8" CY	AGGREGATE BASE, AS PER PLAN CY	TACK COAT (0.06 GAL/SY) GAL	TACK COAT (0.09 GAL/SY) GAL	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG70-22M) CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG70-22M) CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) CY
HOL-62-05.12 (01/STR/CV)																				
PLANING AND RESURFACING																				
PLANING/SURFACE COURSE/TACK	25+70.00	TO	25+85.00	LT/RT	15.00	CAD AREA	50.3										4.5	1.7		
FULL DEPTH																				
REMOVAL	25+85.00	TO	26+15.00	LT/RT	30.00	CAD AREA	101.8	101.8												
SURFACE	25+85.00	TO	26+15.00	LT/RT	30.00	CAD AREA	101.4									6.1		3.5	4.9	
BASE	25+85.00	TO	26+15.00	LT/RT	30.00	CAD AREA	103.7				17.3				6.2					
SUB BASE COURSE	25+85.00	TO	26+15.00	LT/RT	30.00	CAD AREA	109.0		109.0					27.3						
PLANING AND RESURFACING																				
PLANING/SURFACE COURSE/TACK	26+15.00	TO	26+30.00	LT/RT	15.00	CAD AREA	50.9			50.9							4.6	1.8		
DRIVE (ASPHALT)																				
	25+30.00	TO	25+52.00	LT	22.00	CAD AREA	22.9	22.9	22.9				3.8						1.3	
DRIVE (GRAVEL)																				
	25+72.00	TO	25+90.00	RT	18.00	CAD AREA	25.0		25.0				5.6							
DRIVE (ASPHALT)																				
	25+30.00	TO	25+52.00	LT	22.00	CAD AREA	38.0	38.0	38.0				6.3						2.1	
SUBTOTAL (01/STR/CV)																				
								163	195	101	17	10	6	27	12	9	7	3	5	
HOL-179-00.08 (02/NFA/CV)																				
PLANING AND RESURFACING																				
PLANING/SURFACE COURSE/TACK	3+65.00	TO	3+80.00	LT/RT	15.00	CAD AREA	43.1			43.1							3.9	1.5		
FULL DEPTH																				
REMOVAL	3+80.00	TO	4+20.00	LT/RT	40.00	CAD AREA	115.5	115.5												
SURFACE	3+80.00	TO	4+20.00	LT/RT	40.00	CAD AREA	115.5								6.9		4.0		5.6	
BASE	3+80.00	TO	4+20.00	LT/RT	40.00	CAD AREA	118.4				19.7				7.1					
SUB BASE COURSE	3+80.00	TO	4+20.00	LT/RT	40.00	CAD AREA	122.9		123.0			20.5								
PLANING AND RESURFACING																				
PLANING/SURFACE COURSE/TACK	4+20.00	TO	4+35.00	LT/RT	15.00	CAD AREA	43.5			43.5							3.9	1.5		
SUBTOTAL (02/NFA/CV)																				
								116	123	87	20	20			14	8	7		6	
HOL-514-01.42 (01/STR/CV)																				
PLANING AND RESURFACING																				
PLANING/SURFACE COURSE/TACK	75+00.00	TO	75+15.00	LT/RT	15.00	CAD AREA	54.8			54.8							4.9	1.9		
FULL DEPTH																				
REMOVAL	75+15.00	TO	75+65.00	LT/RT	50.00	CAD AREA	147.7	147.7												
SURFACE	75+15.00	TO	75+65.00	LT/RT	50.00	CAD AREA	147.7								8.9		5.1		7.2	
BASE	75+15.00	TO	75+65.00	LT/RT	50.00	CAD AREA	151.4				25.2				9.1					
SUB BASE COURSE	75+15.00	TO	75+65.00	LT/RT	50.00	CAD AREA	157.0		157.0			26.2								
PLANING AND RESURFACING																				
PLANING/SURFACE COURSE/TACK	75+65.00	TO	75+80.00	LT/RT	15.00	CAD AREA	43.2			43.2							3.9	1.5		
SUBTOTAL (01/STR/CV)																				
								148	157	98	25	26			18	9	9		7	
SUBTOTAL (01/STR/CV)								311	352	199	42	42	27	48		19	12			
SUBTOTAL (02/NFA/CV)								116	123	87	20	20		22		7	6			
TOTALS CARRIED TO GENERAL SUMMARY								427	475	286	62	62	27	70		26	18			

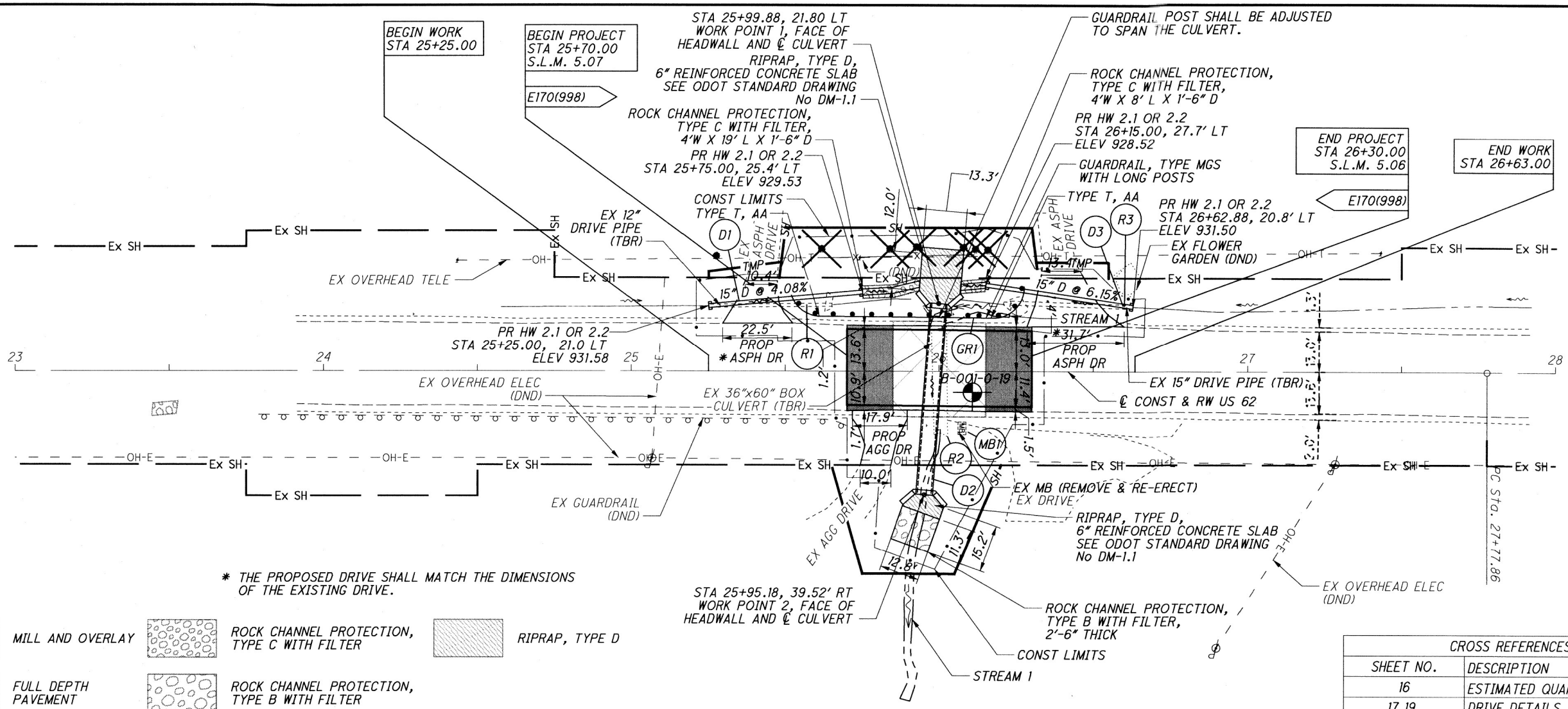
PAVEMENT CALCULATIONS




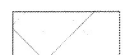

HOL 62/ VAR
5.06/ VAR

CALCULATED
RSH
CHECKED
MJR

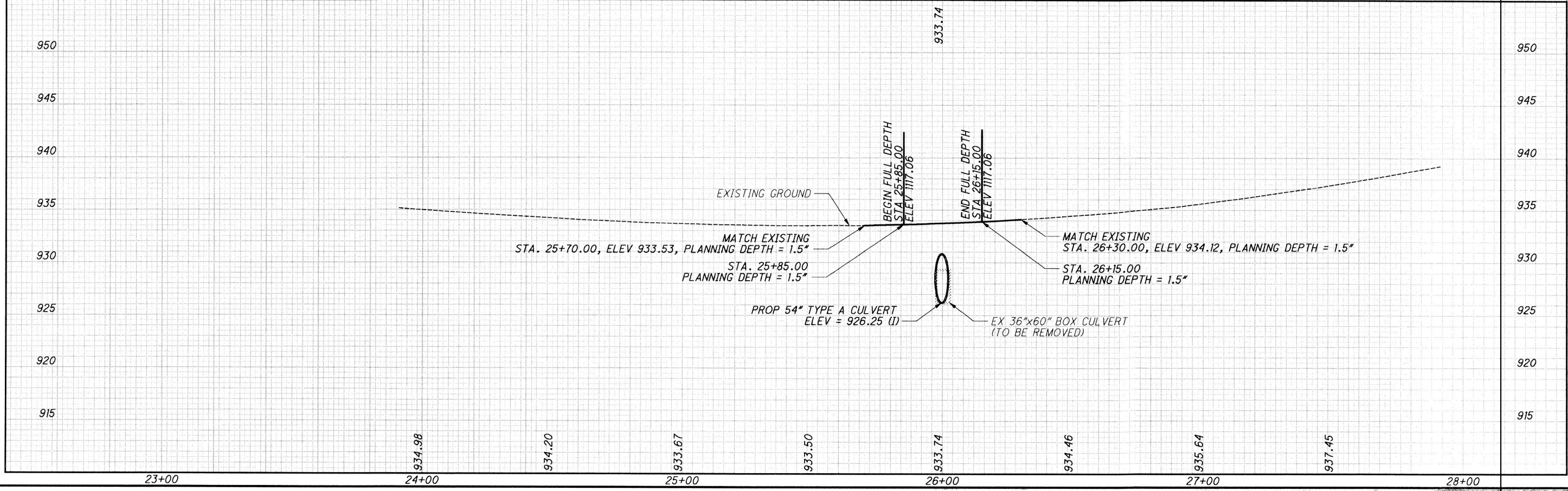
14
48


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-  MILL AND OVERLAY
-  ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
-  RIPRAP, TYPE D
-  FULL DEPTH PAVEMENT
-  ROCK CHANNEL PROTECTION, TYPE B WITH FILTER

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
16	ESTIMATED QUANTITIES - US 62
17,19	DRIVE DETAILS
34	TYPE A CULVERT DETAIL





40
HORIZONTAL
SCALE IN FEET

CALCULATED
JTS
CHECKED
MPD

PLAN AND PROFILE - US 62
STA. 23+00 TO STA. 28+00

HOL 62 / VAR
5.06 / VAR

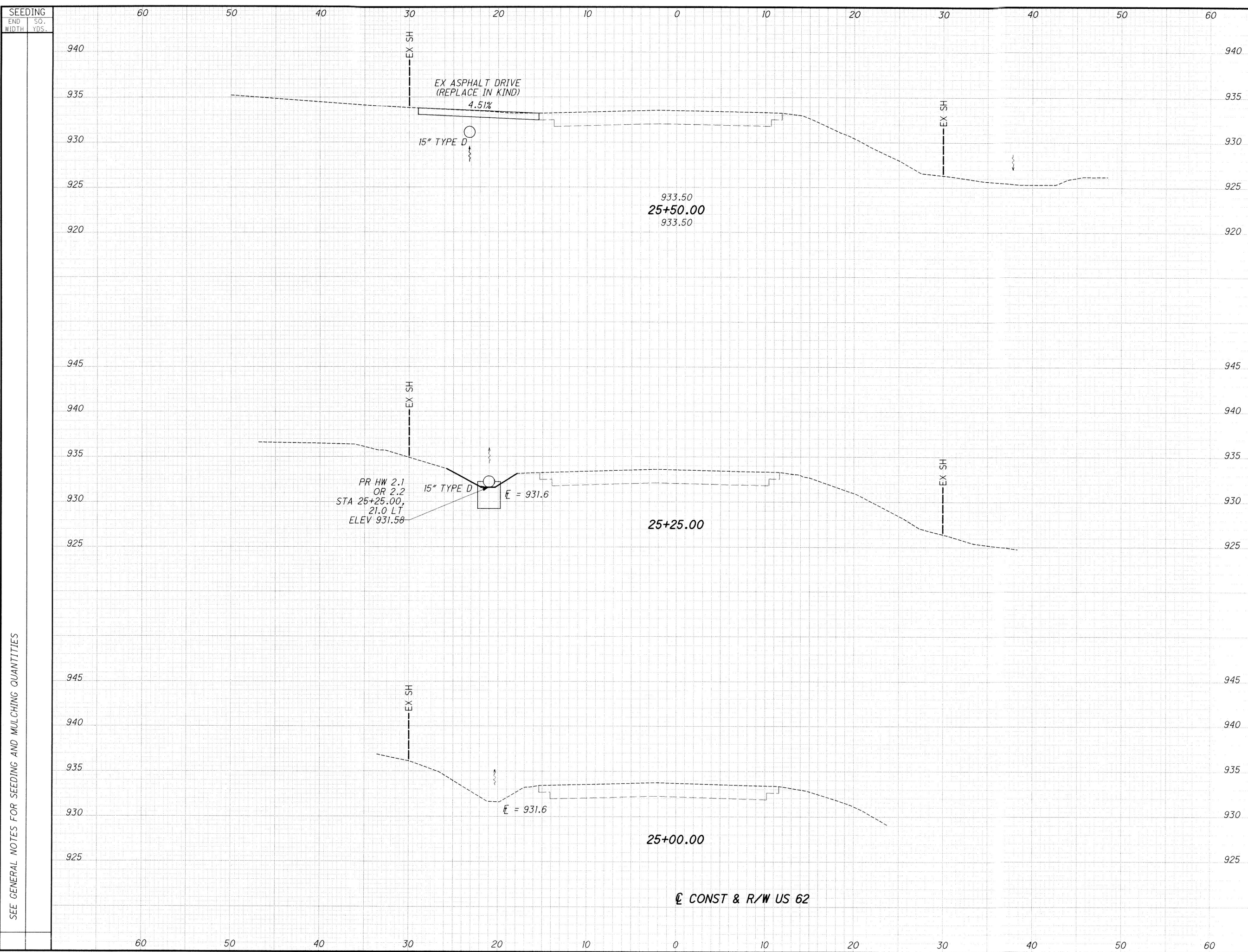
15
48

ROADWAY												
SHEET NO.	REF. NO.	STATION		SIDE	CENTERLINE ROADWAY REFERENCE	202	202	202	606	606	626	690
		FROM	TO			HEADWALL REMOVED EACH	PIPE REMOVED, 24" AND UNDER FT	PIPE REMOVED, OVER 24" FT	GUARDRAIL, TYPE MGS WITH LONG POSTS FT	ANCHOR ASSEMBLY, TYPE T EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL) EACH	SPECIAL - MAILBOX REMOVED AND RESET EACH
15	R1	25+25	25+65	LT	US 62		40					
15	R2	26+00	26+01	LT/RT	US 62	2		37				
15	R3	26+63	26+22	LT	US 62		41					
15	GRI	25+51	26+28	LT	US 62				62.50	2	2	
15	MB1	26+07		LT	US 62							1
TOTALS CARRIED TO GENERAL SUMMARY (01/STR/CV)						2	81	37	62.50	2	2	1

DRAINAGE											
SHEET NO.	REF. NO.	STATION		SIDE	CENTERLINE ROADWAY REFERENCE	601	601	601	602	611	611
		FROM	TO			RIPRAP, TYPE D SY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY	CONCRETE MASONRY CY	15" CONDUIT, TYPE D FT	54" CONDUIT, TYPE A, 707.02 (0.188) WITH CONCRETE INVERT PAVING, 706.02, 707.33 FT
15	D1	25+25	25+75	LT	US 62			4.20	0.42	50	
15	D2	25+95	26+00	LT/RT	US 62	32	13.4		21		62
15	D3	26+15	26+63	LT	US 62			1.80	0.42	48	
TOTALS CARRIED TO GENERAL SUMMARY (01/STR/CV)						32	13.40	6	21.84	98	62

I:\ProjectData\05124\Design\Files From Consultant\Design\Roadway\Sheets\05124_XS001.dgn Sheet 10/27/2020 9:58:50 AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



SEEDING END WIDTH YDS.	SO. YDS.	END AREA		VOLUME		CALCULATED CGW	CHECKED MPD
		CUT	FILL	OUT	FILL		
940	60						
935	50						
930	40	9	0				
925	30						
920	20						
945	10						
940	0						
935	10	0	0				
930	20						
925	30						
945	40						
940	50						
935	60						
930	60						
925	60						
		4	0	4	0		

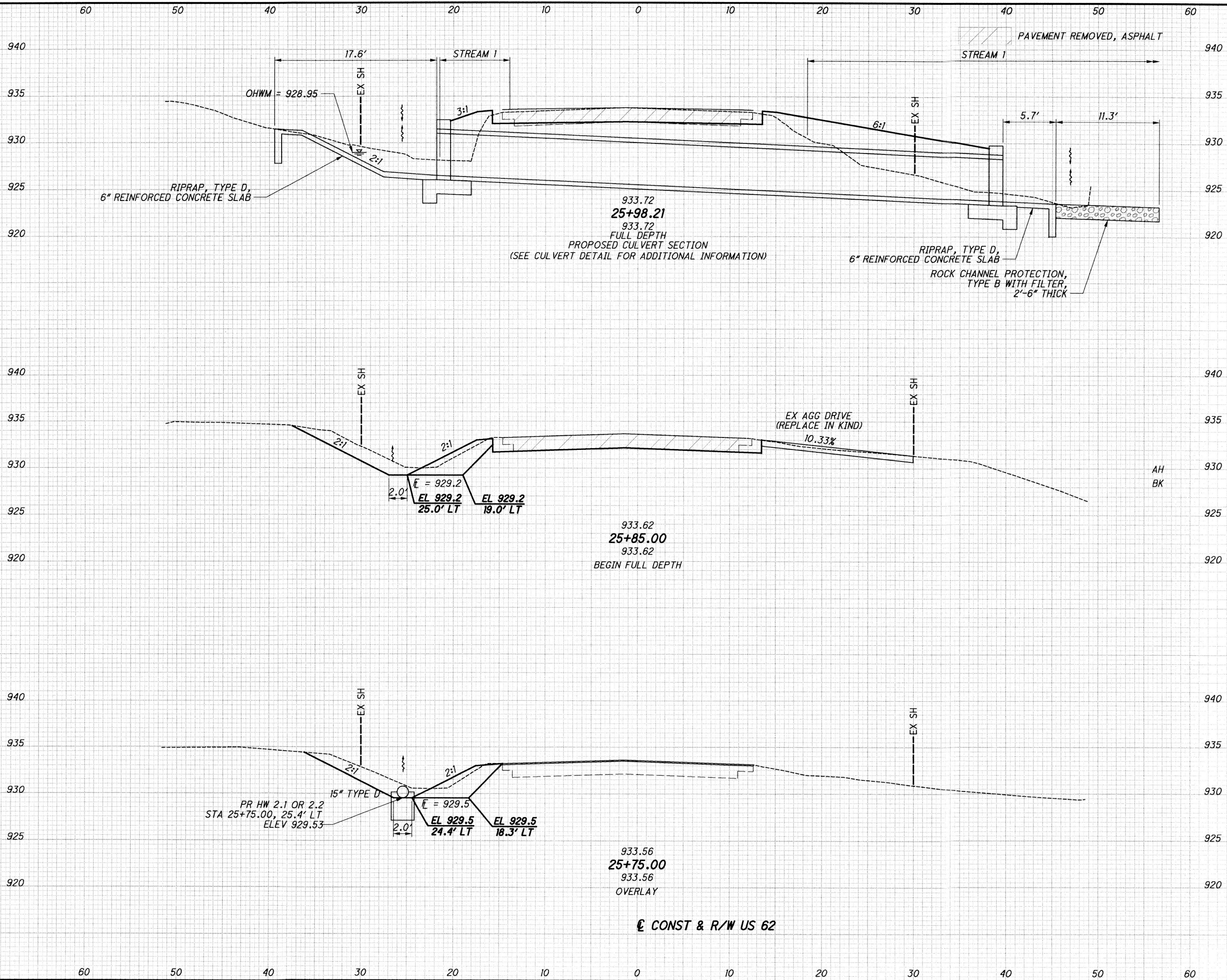
**CROSS SECTIONS - US 62
STA. 25+00.00 TO STA. 25+50.00**

**HOL 62/ VAR
5.06/ VAR**

17
48

I:\ProjectData\05124\Design\Files From Consultant\Design\Roadway\Sheets\05124_XS00.dgn Sheet 10/27/2020 9:58:51AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED GGW	CHECKED MPD
		CUT	FILL	CUT	FILL		
		64	98	26	29		
		42	22	12	6		
		29	15				
				18	7		
				56	42		

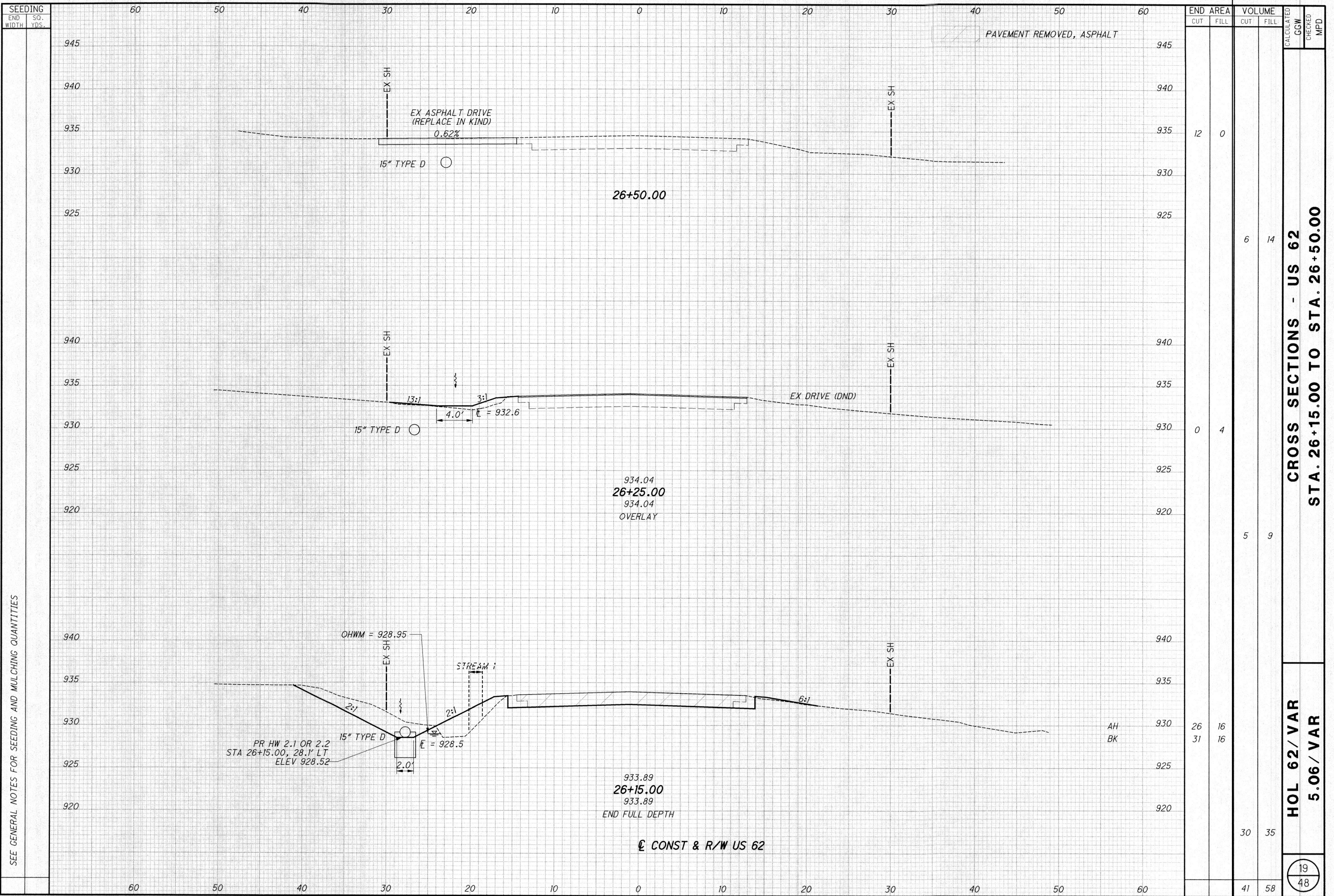
CROSS SECTIONS - US 62
STA. 25+75.00 TO STA. 25+98.21

HOL 62 / VAR
5.06 / VAR

18
48

I:\ProjectData\105124\Design\Files From Consultant\Design\Roadway\Sheets\105124_XS001.dgn Sheet 10/27/2020 9:58:52 AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



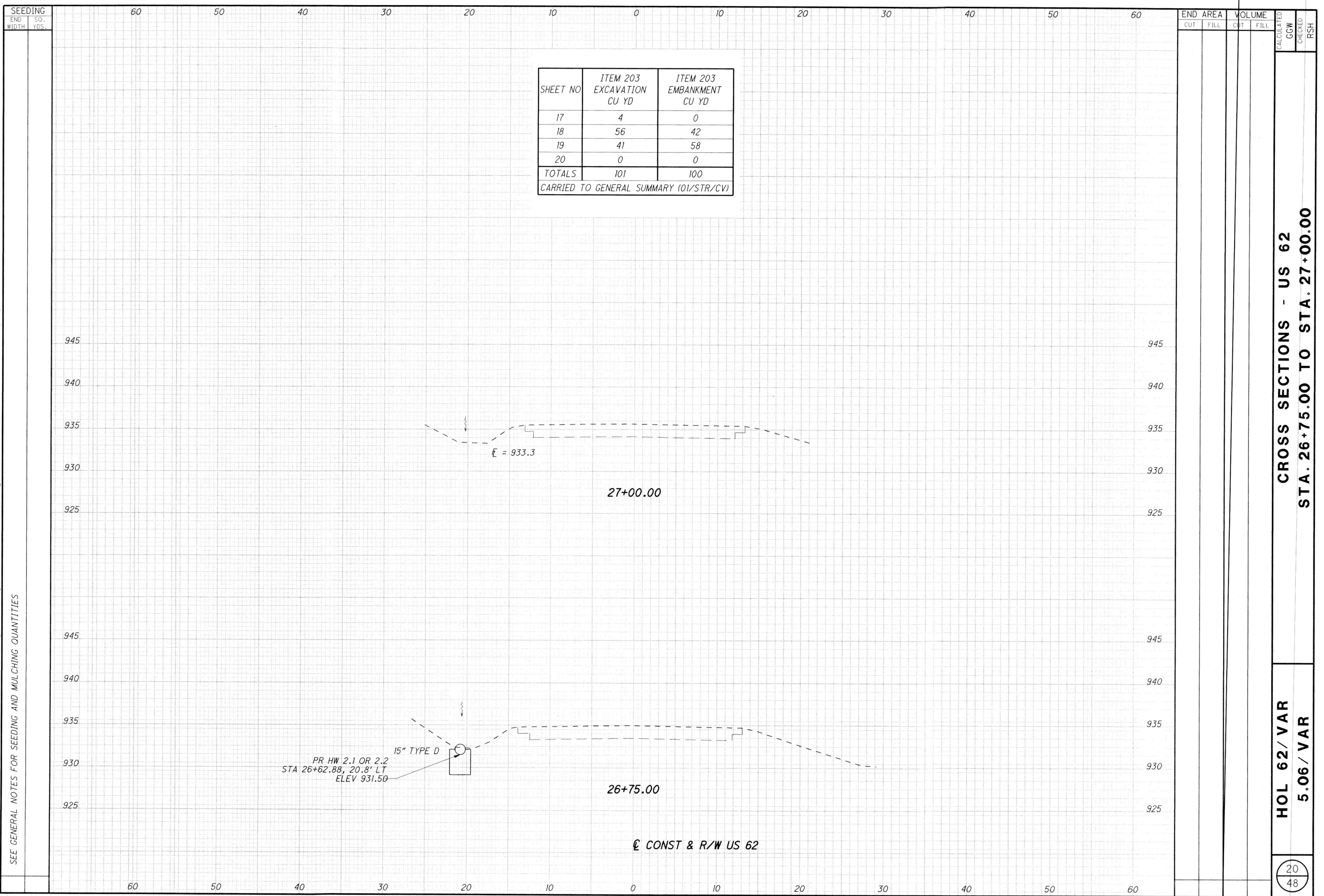
SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED GGW	CHECKED MPD
		CUT	FILL	CUT	FILL		
		12	0	6	14		
		0	4	5	9		
		26	16	30	35		
		31	16	41	58		

CROSS SECTIONS - US 62
STA. 26+15.00 TO STA. 26+50.00

HOL 62 / VAR
5.06 / VAR

19
48

I:\ProjectData\05124\Design\Files From Consultant\Design\Roadway\Sheets\05124_X5001.dgn Sheet 03-DEC-2020 8:48AM dflick
 SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES

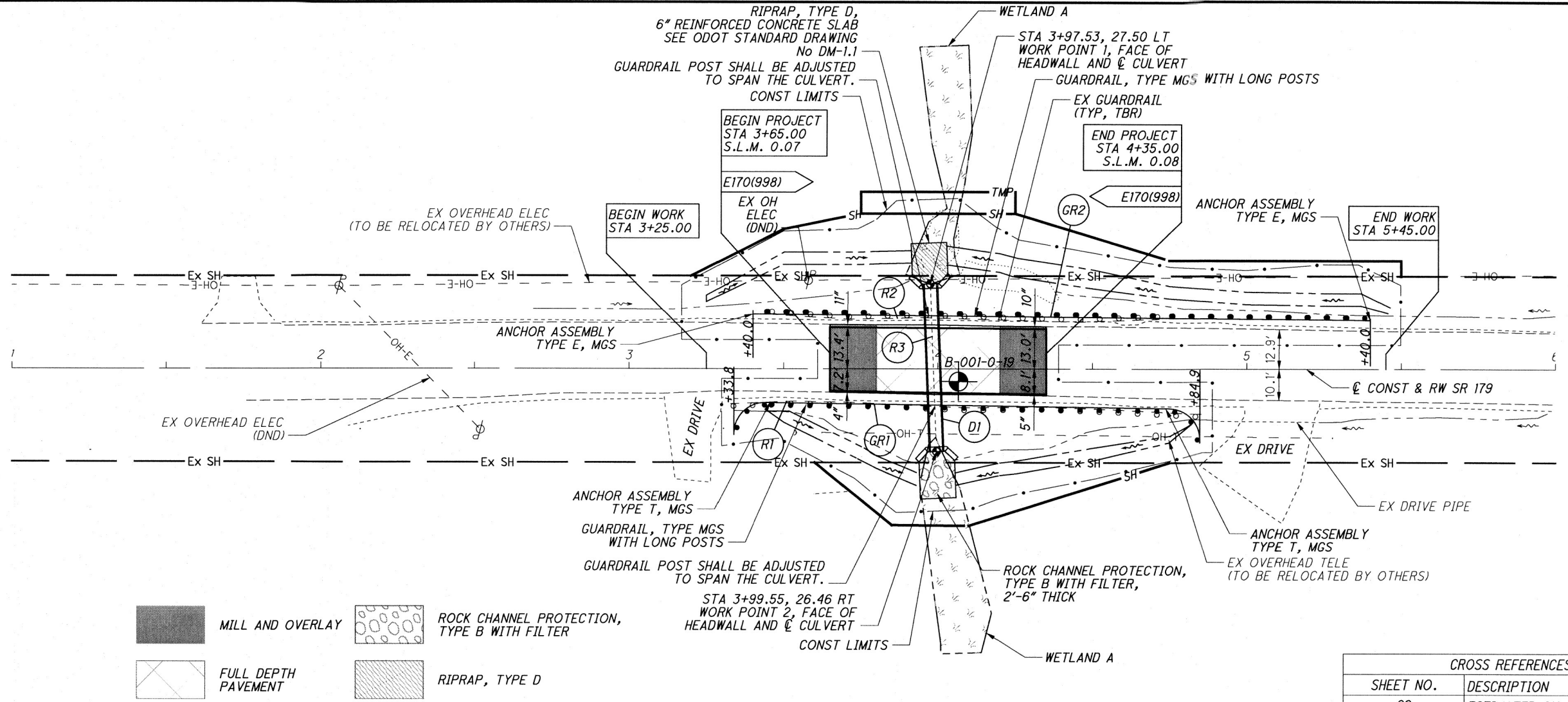






SHEET NO	ITEM 203 EXCAVATION CU YD	ITEM 203 EMBANKMENT CU YD
17	4	0
18	56	42
19	41	58
20	0	0
TOTALS	101	100

CARRIED TO GENERAL SUMMARY (01/STR/CV)

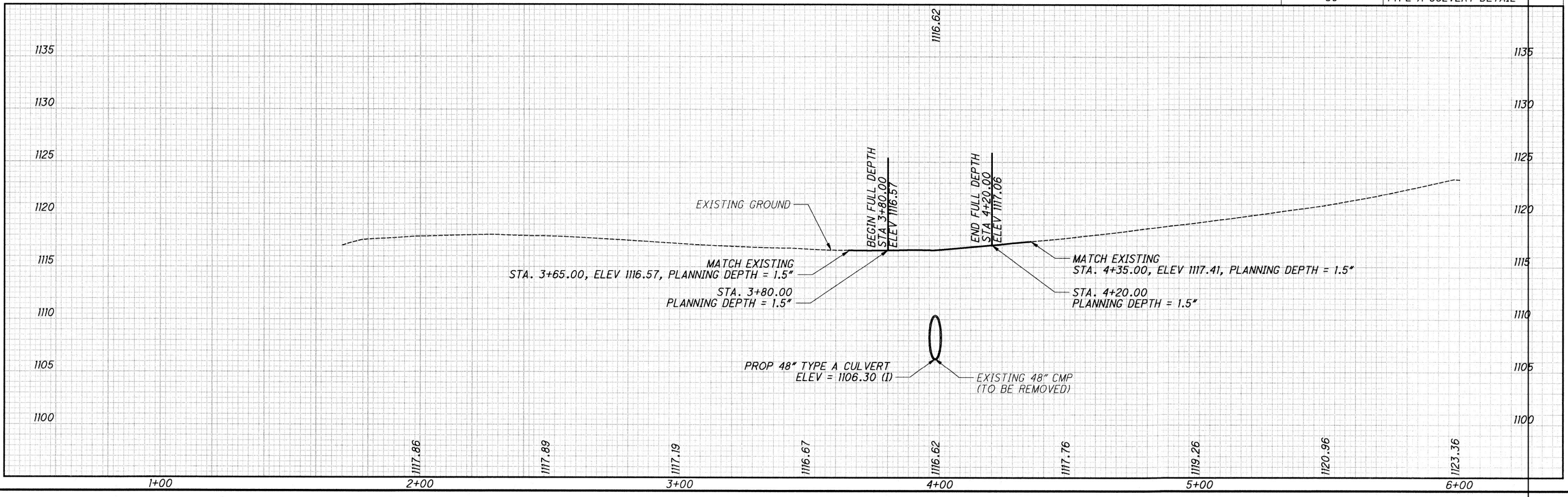
END	AREA		VOLUME		CALCULATED	GGW	CHECKED	RSR
	CUT	FILL	CUT	FILL				
HOL 62 / VAR 5.06 / VAR								
CROSS SECTIONS - US 62 STA. 26+75.00 TO STA. 27+00.00								
20 48								


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	MILL AND OVERLAY		ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
	FULL DEPTH PAVEMENT		RIPRAP, TYPE D

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
22	ESTIMATED QUANTITIES - SR 179
35	TYPE A CULVERT DETAIL





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BY: JTS
CHECKED BY: MPD

PLAN AND PROFILE - 179
STA. 1+00 TO STA. 6+00

HOL 62 / VAR
5.06 / VAR

21
48

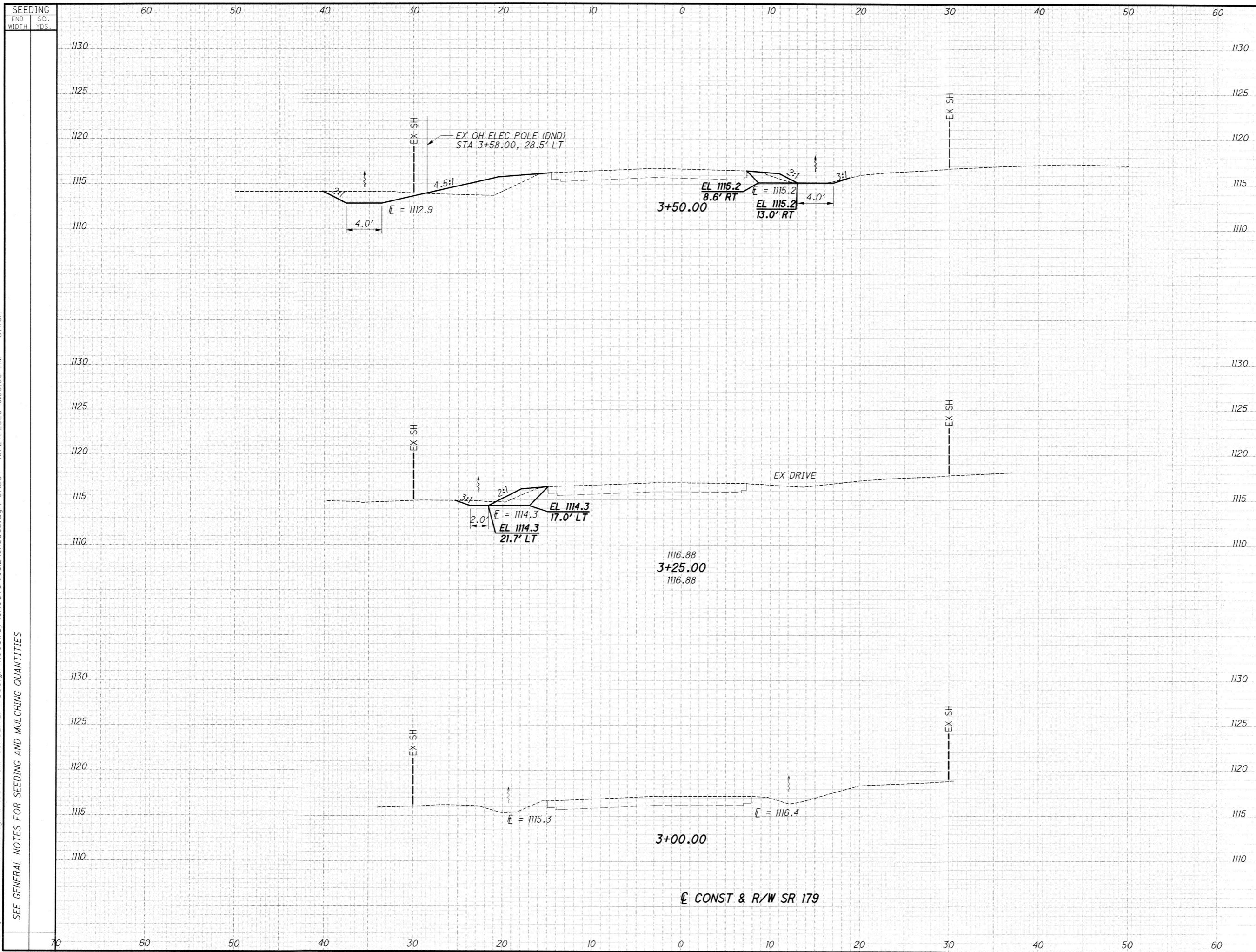
ROADWAY												
SHEET NO.	REF. NO.	STATION		SIDE	CENTERLINE ROADWAY REFERENCE	202	202	202	606	606	606	626
		FROM	TO			HEADWALL REMOVED	PIPE REMOVED, OVER 24"	GUARDRAIL REMOVED	GUARDRAIL, TYPE MGS WITH LONG POSTS	ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350 OR MASH 2016)	ANCHOR ASSEMBLY, TYPE T	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)
						EACH	FT	FT	FT	EACH	EACH	EACH
21	R1	03+33	04+85	RT	SR 179			153				
21	R2	03+44	04+72	LT	SR 179			128				
21	R3	03+98	03+99	LT/RT	SR 179	2	50					
21	GR1	03+34	04+85	RT	SR 179				137.50	2		3
21	GR2	03+40	05+40	LT	SR 179				100	2		3
TOTALS CARRIED TO GENERAL SUMMARY (02/NFA/CV)						2	50	281	237.50	2	2	6

DRAINAGE									
SHEET NO.	REF. NO.	STATION		SIDE	CENTERLINE ROADWAY REFERENCE	601	601	602	611
		FROM	TO			RIPRAP, TYPE D	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CONCRETE MASONRY	48" CONDUIT, TYPE A, 707.02 10.249, 706.02, 707.33
						SY	CY	CY	FT
21	D1	03+98	04+00	LT/RT	SR 179	15.80	15.30	17.20	54
TOTALS CARRIED TO GENERAL SUMMARY (02/NFA/CV)						15.80	15.30	17.20	54

**ESTIMATED QUANTITIES
CULVERT - HOL-179-0.08**

**HOL 62/VAR
5.06/VAR**

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES

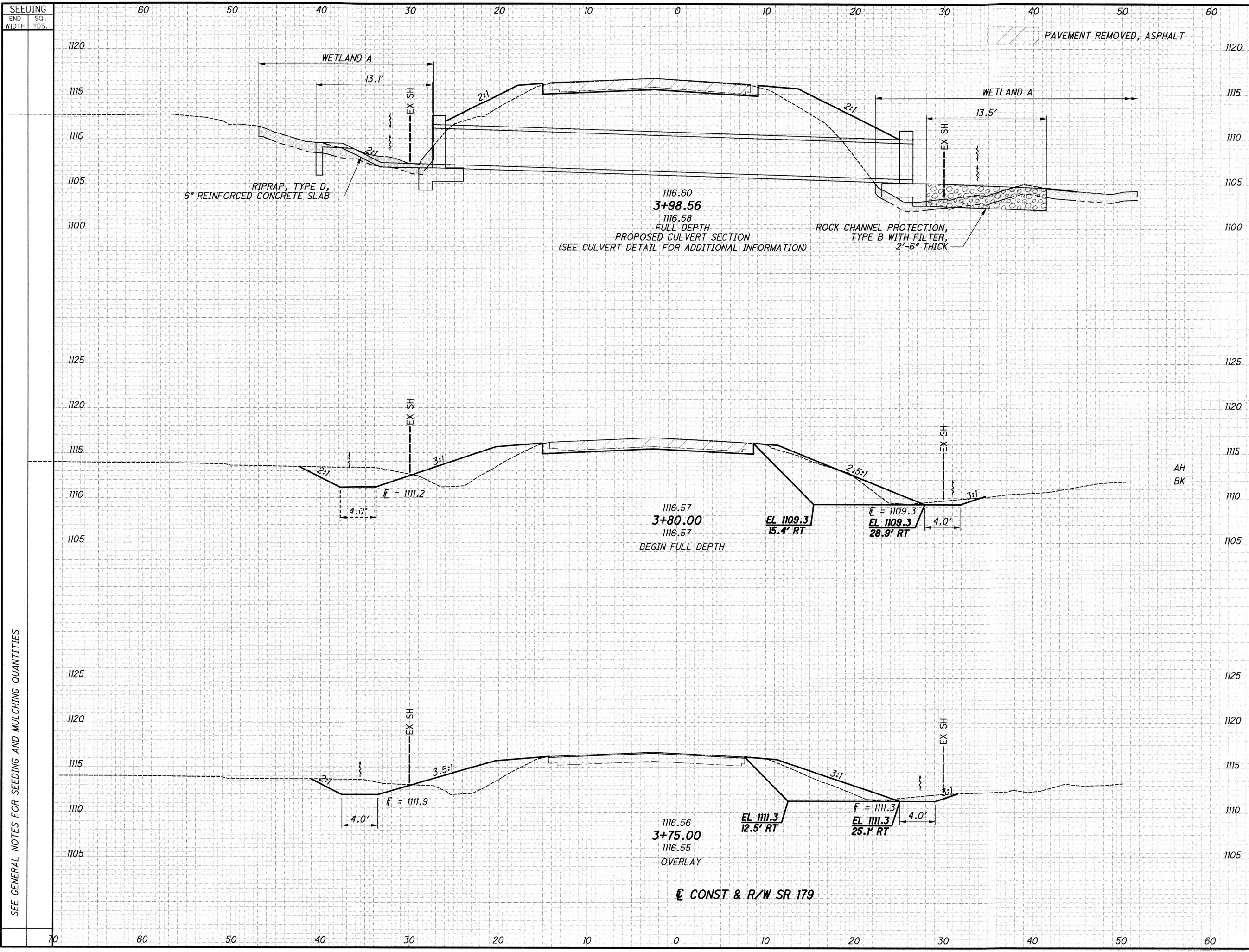


END STA	AREA		VOLUME		CALCULATED	CHECKED	MPD
	CUT	FILL	CUT	FILL			
3+00.00	7	7	0	0			
3+50.00	13	17	9	11			
TOTAL	20	24	9	11			

HOL 62 / VAR	5.06 / VAR
CROSS SECTIONS - SR 179	
STA. 3+00.00 TO STA. 3+50.00	

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SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES

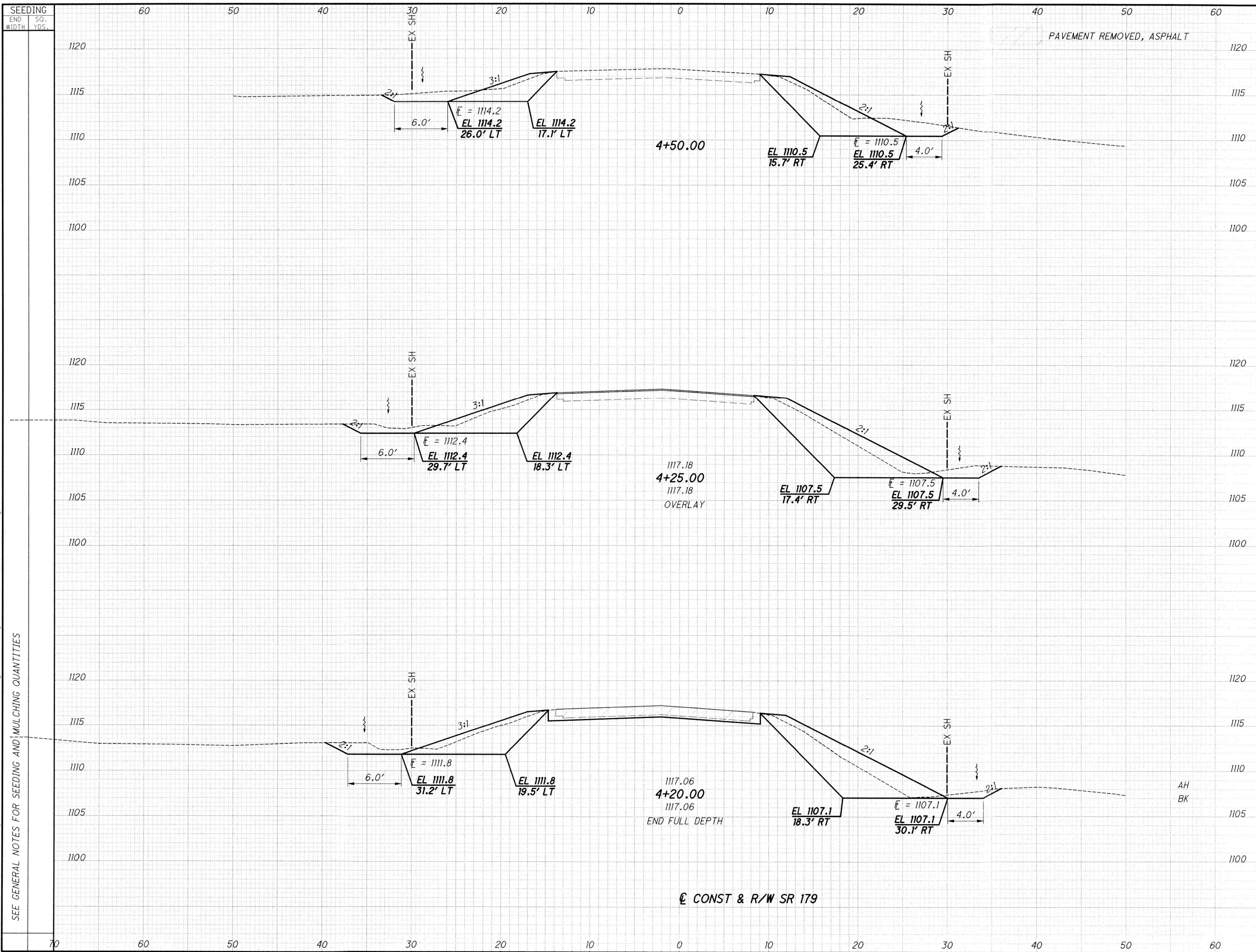


END STA	AREA		VOLUME	
	CUT	FILL	CUT	FILL
116	70		64	50
71	34		10	9
63	34			
43	60		26	36
100	95			

CROSS SECTIONS - SR 179
 STA. 3+75.00 TO STA. 3+98.56
 HOL 62/ VAR
 5.06/ VAR
 CALCULATED GGW MPD
 CHECKED MPD
 24/48

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SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



END STA	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
69	69	60		
73			73	74
88	88	100		
15			15	18
77	77	99		
85	85	99		
			80	67
			168	159

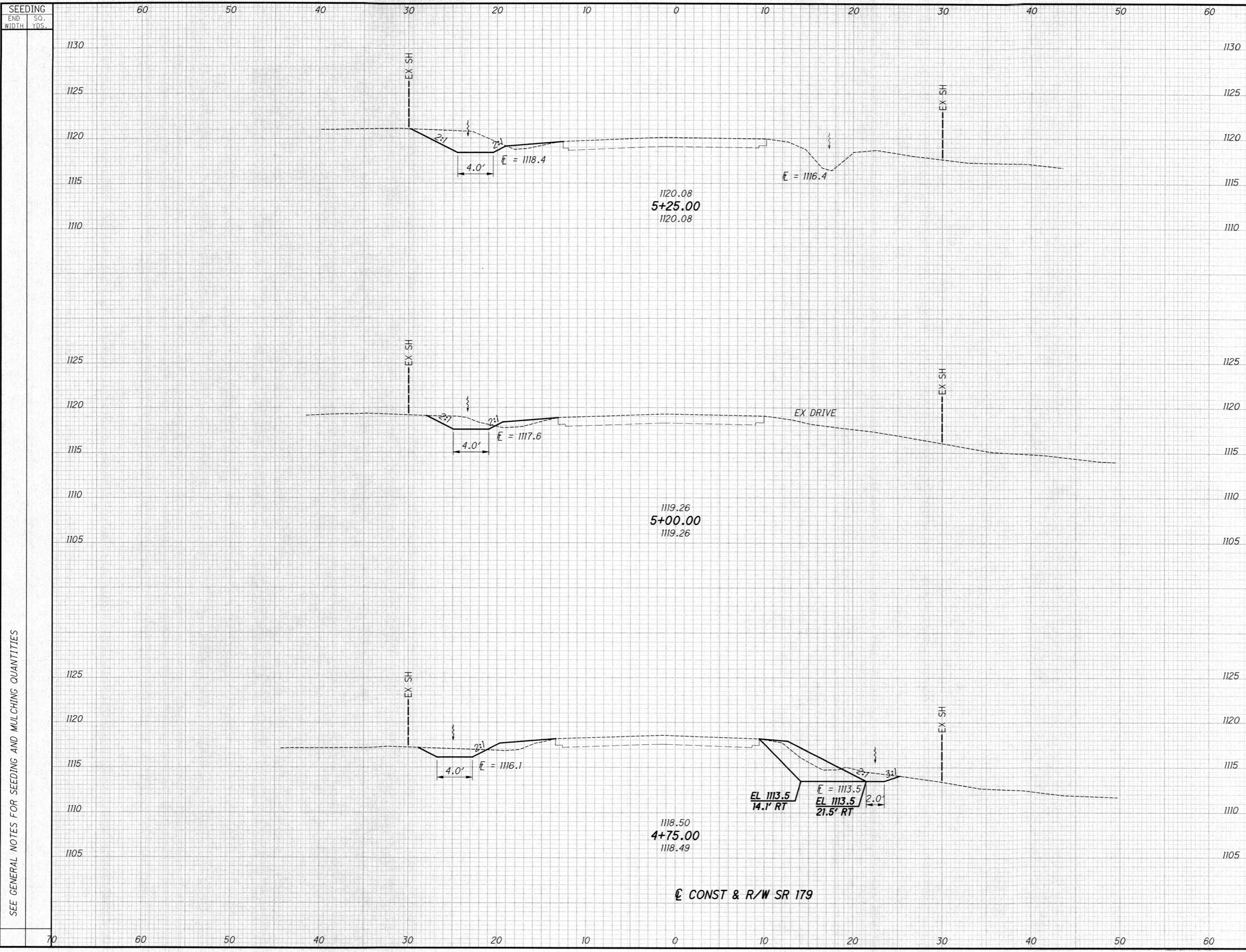
CROSS SECTIONS - SR 179
STA. 4+20.00 TO STA. 4+50.00

HOL 62 / VAR
5.06 / VAR

25
48

I:\ProjectData\05124\Design\Files From Consultant\Design\Roadway\Sheets\05124_XS002.dgn Sheet 10/27/2020 9:58:58 AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



SEEDING END WIDTH	50. YDS.	END AREA		VOLUME		CALCULATED GGW	CHECKED MPD
		CUT	FILL	CUT	FILL		
1130	60						
1125	50						
1120	40	16	24				
1115	30						
1110	20			11	2		
1125	10						
1120	0						
1115	10	7	3				
1110	20						
1105	30			16	14		
1125	40						
1120	50						
1115	60	27	27				
1110							
1105				44	40		
70				71	56		

CROSS SECTIONS - SR 179
STA. 4+75.00 TO STA. 5+25.00

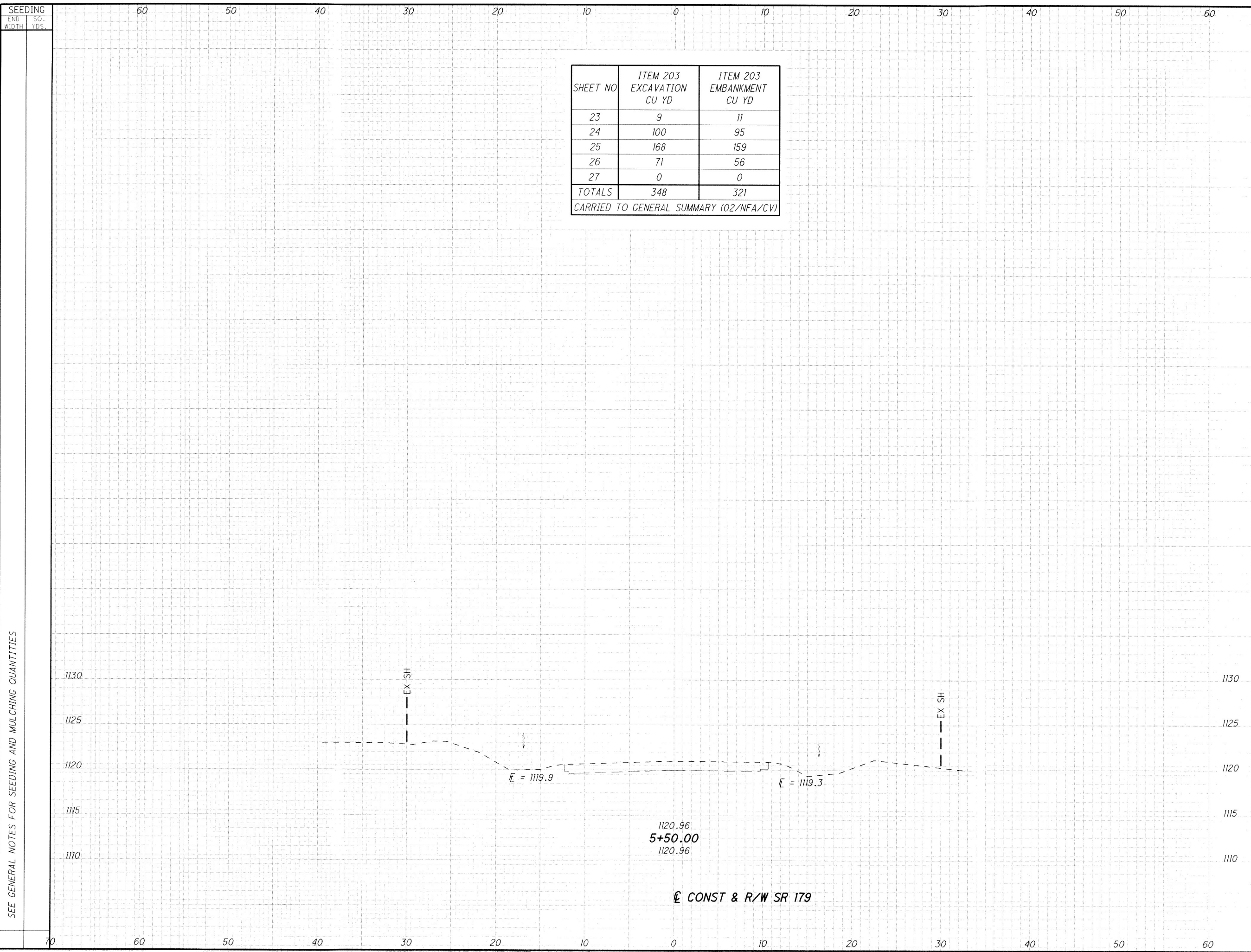
HOL 62 / VAR
5.06 / VAR

26
48

CONST & R/W SR 179

I:\ProjectData\05124\DesignFiles From Consultant\Design\Roadway\Sheets\05124_XS002.dgn Sheet 03-DEC-2020 9:05AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



SHEET NO	ITEM 203 EXCAVATION CU YD	ITEM 203 EMBANKMENT CU YD
23	9	11
24	100	95
25	168	159
26	71	56
27	0	0
TOTALS	348	321

CARRIED TO GENERAL SUMMARY (02/NFA/CV)

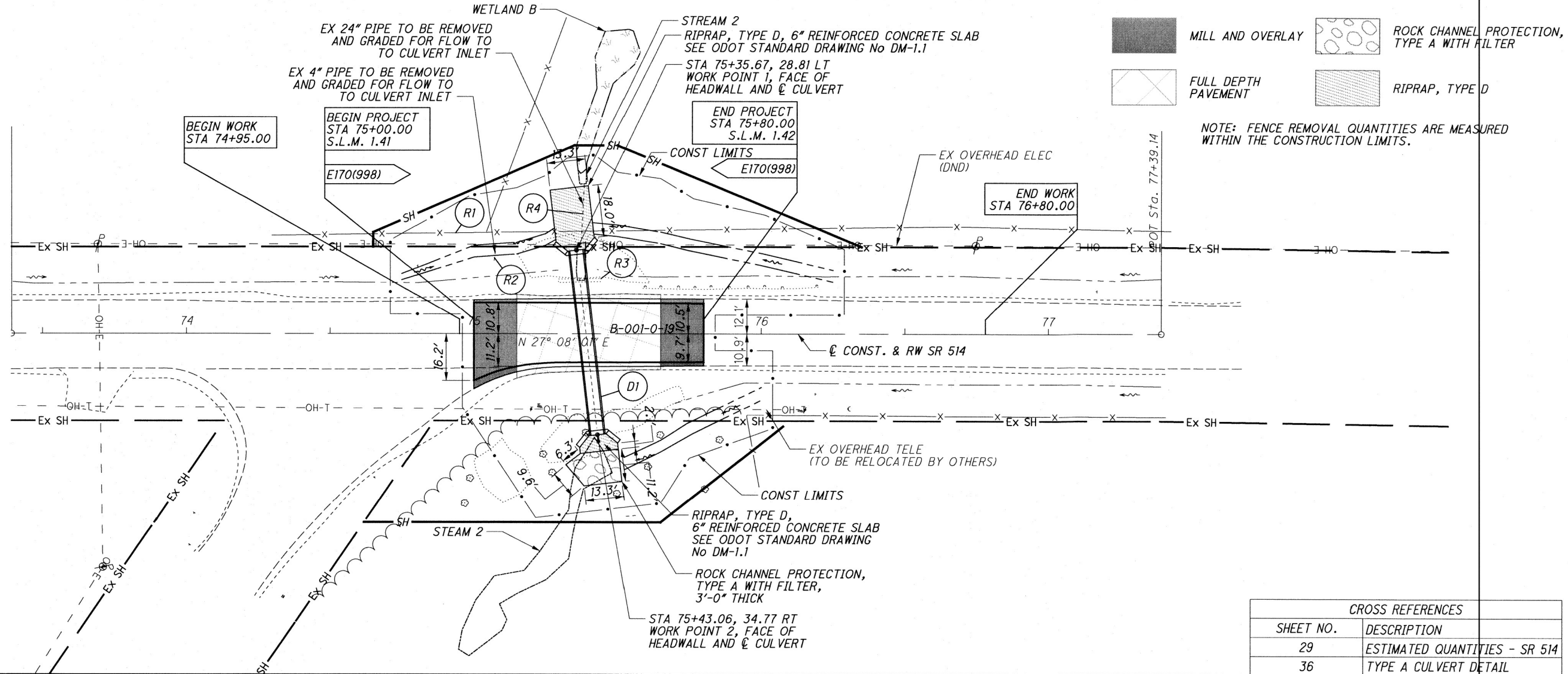
SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	CGW	RSH

CROSS SECTIONS - SR 179
STA. 5+50.00

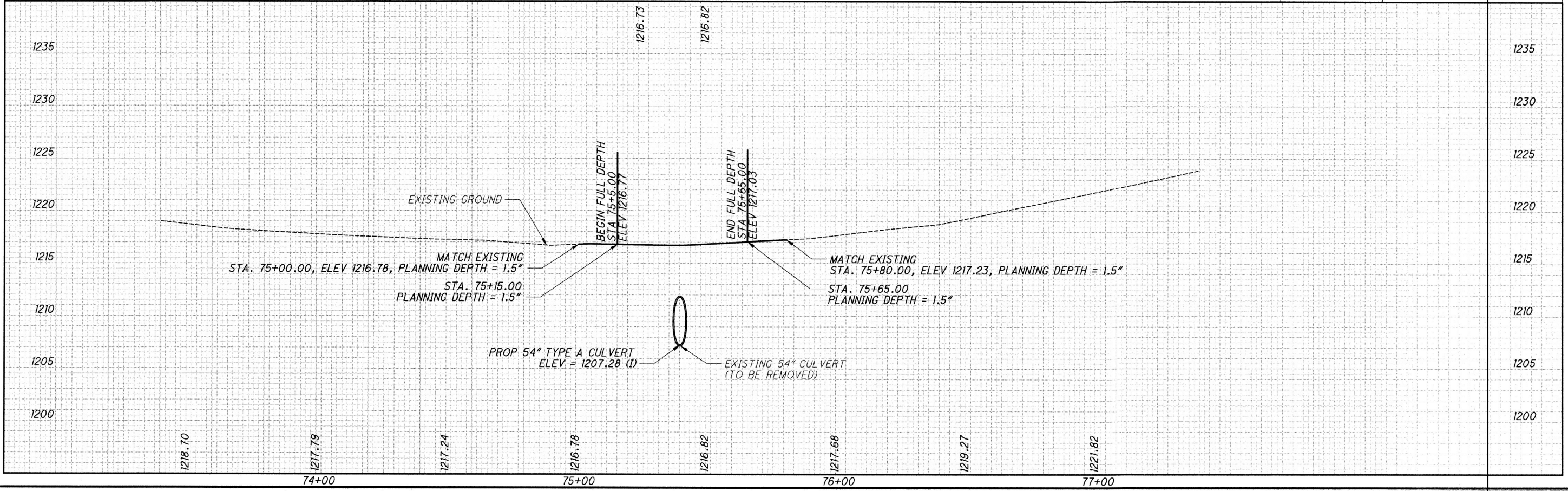
HOL 62 / VAR
5.06 / VAR

27
48

I:\ProjectData\05124\Design\Roadway\Sheets\05124_GPO03.dgn Sheet 12/3/2020 11:18:23 AM dflick



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
29	ESTIMATED QUANTITIES - SR 514
36	TYPE A CULVERT DETAIL



PLAN AND PROFILE - 514

STA. 73+39 TO 77+39

HOL 62 / VAR

5.06 / VAR

28

48

0 20 40 HORIZONTAL SCALE IN FEET

CALCULATED JTS CHECKED MPD

I:\ProjectData\05124\Design\Files From Consultant\Design\Roadway\Sheets\05124_GS003.dgn Sheet 12/3/2020 11:36:02 AM dflick

ROADWAY									
SHEET NO.	REF. NO.	STATION		SIDE	CENTERLINE ROADWAY REFERENCE	202	202	202	202
						HEADWALL REMOVED	PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	FENCE REMOVED
		FROM	TO			EACH	FT	FT	FT
28	R1	74+75	76+12	LT/RT	SR 514				183
28	R2	75+07	75+08	LT	SR 514		5		
28	R3	75+37	75+43	LT/RT	SR 514	2		52	
28	R4	75+37	75+38	LT	SR 514		20		
TOTALS CARRIED TO GENERAL SUMMARY (01/ STR/ CV)						2	25	52	183

DRAINAGE									
SHEET NO.	REF. NO.	STATION		SIDE	CENTERLINE ROADWAY REFERENCE	601	601	602	611
						RIPRAP, TYPE D	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	CONCRETE MASONRY	54" CONDUIT, TYPE A, 707.02, 707.33
		FROM	TO			SY	CY	CY	FT
28	D1	75+36	75+43	LT/RT	SR 514	38	24.40	21	64
TOTALS CARRIED TO GENERAL SUMMARY (01/ STR/ CV)						38	24.40	21	64

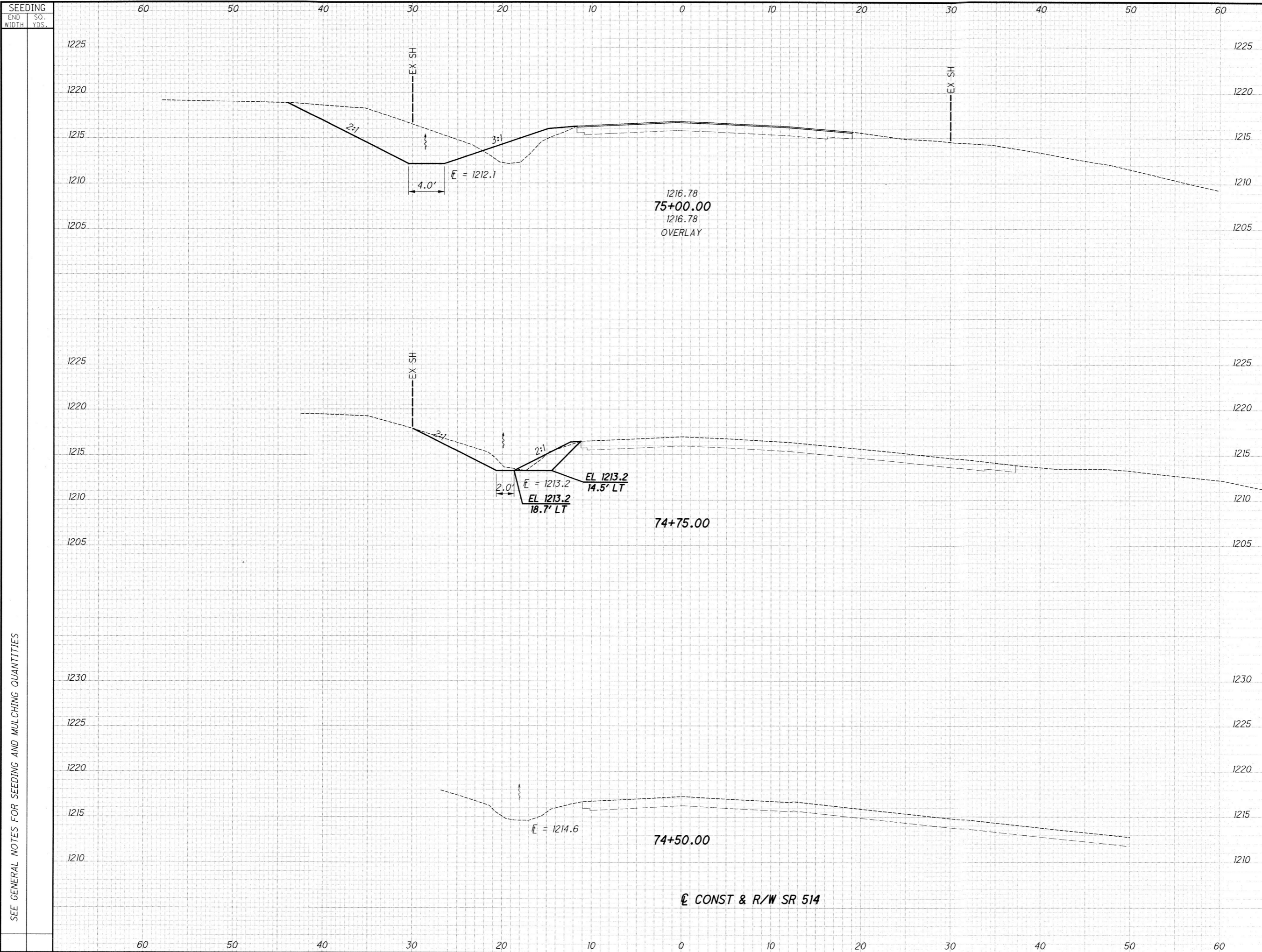
CALCULATED
RSH
CHECKED
MJR

**ESTIMATED QUANTITIES
CULVERT - HOL-514-1.42**

**HOL 62/ VAR
5.06 / VAR**

I:\ProjectData\105124\Design\Files From Consultant\Design\Roadway\Sheets\105124_XS003.dgn Sheet 10/27/2020 9:59:03 AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



END STA	AREA		VOLUME		CALCULATED GGW	CHECKED MPD
	CUT	FILL	CUT	FILL		
74+50.00	0	0	0	0		
74+75.00	16	8				
75+00.00	58	15	34	11		
TOTAL			34	11		

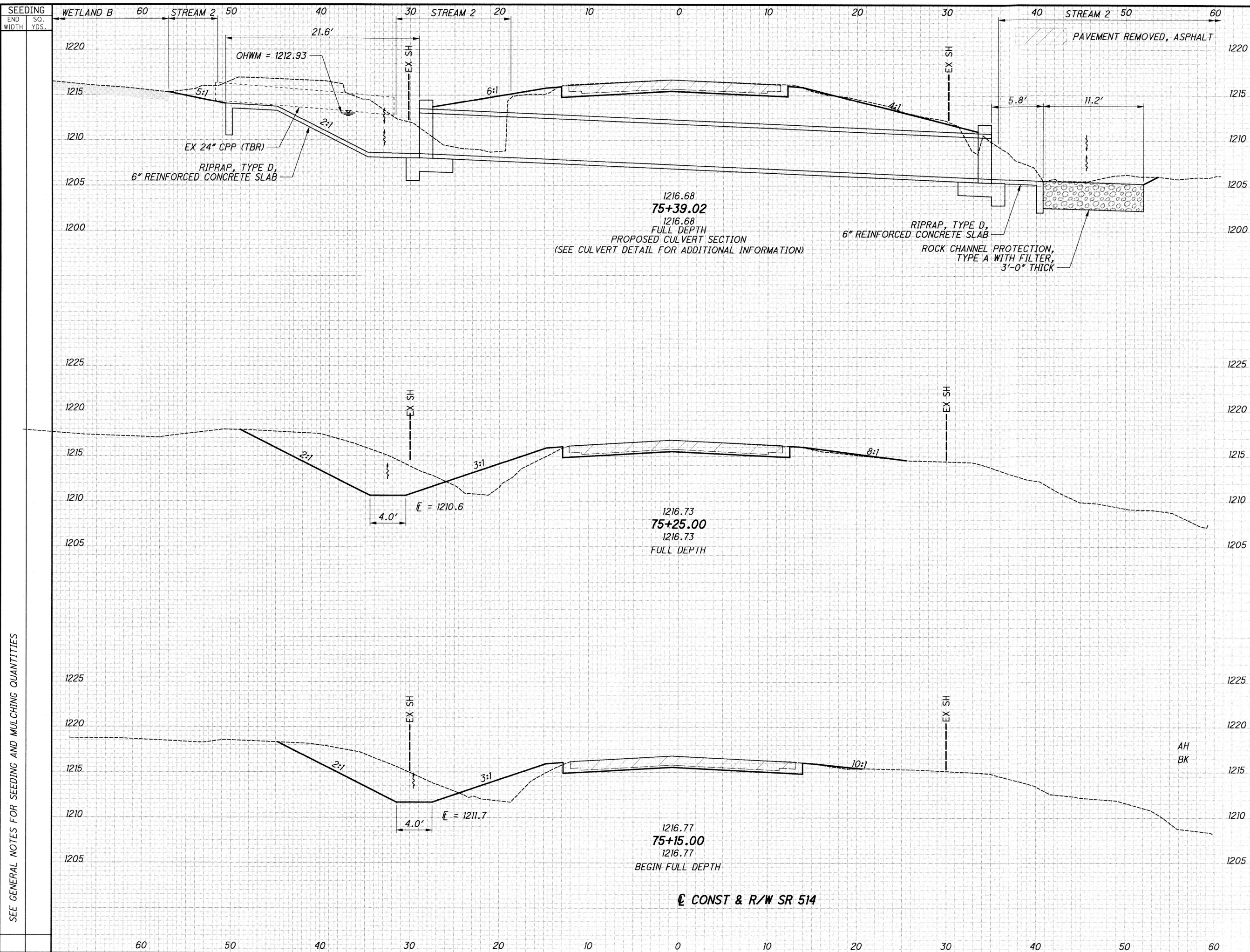
CROSS SECTIONS - SR 514
 STA. 74+50.00 TO STA. 75+00.00

HOL 62/ VAR
 5.06/ VAR

30
 48

I:\ProjectData\105124\Design\Files From Consultant\Design\Roadway\Sheets\105124_XS003.dgn Sheet 10/27/2020 9:59:04 AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



SEEDING END WIDTH	SO. YDS.	WETLAND B		STREAM 2		STREAM 2		STREAM 2		STREAM 2		END AREA		VOLUME		CALCULATED GGW	CHECKED MPD	
		60	50	40	30	20	10	0	10	20	30	40	50	60	CUT			FILL
													191	49				
															70	18		
													77	22				
															25	7		
													57	18				
													48	18				
															29	9		
		60	50	40	30	20	10	0	10	20	30	40	50	60				
															124	34		

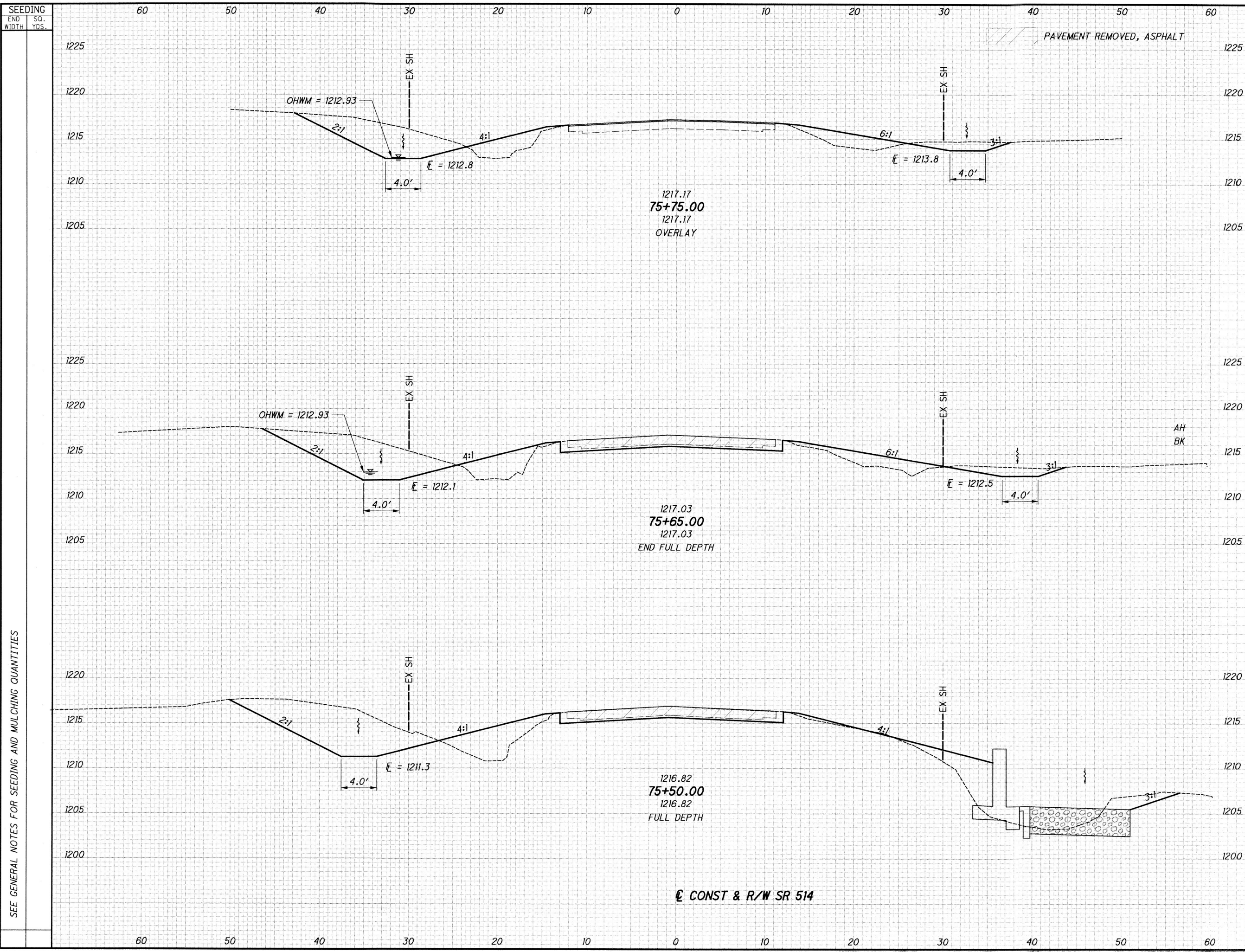
CROSS SECTIONS - SR 514
STA. 75+15.00 TO STA. 75+39.02

HOL 62/VAR
5.06/VAR

31
48

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SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES



SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED GGW	CHECKED MPD
		CUT	FILL	CUT	FILL		
		50	50	21	15		
		65 73	33 33	50	24		
		107	52	61	21		
				132	60		

CROSS SECTIONS - SR 514
STA. 75+50.00 TO STA. 75+75.00

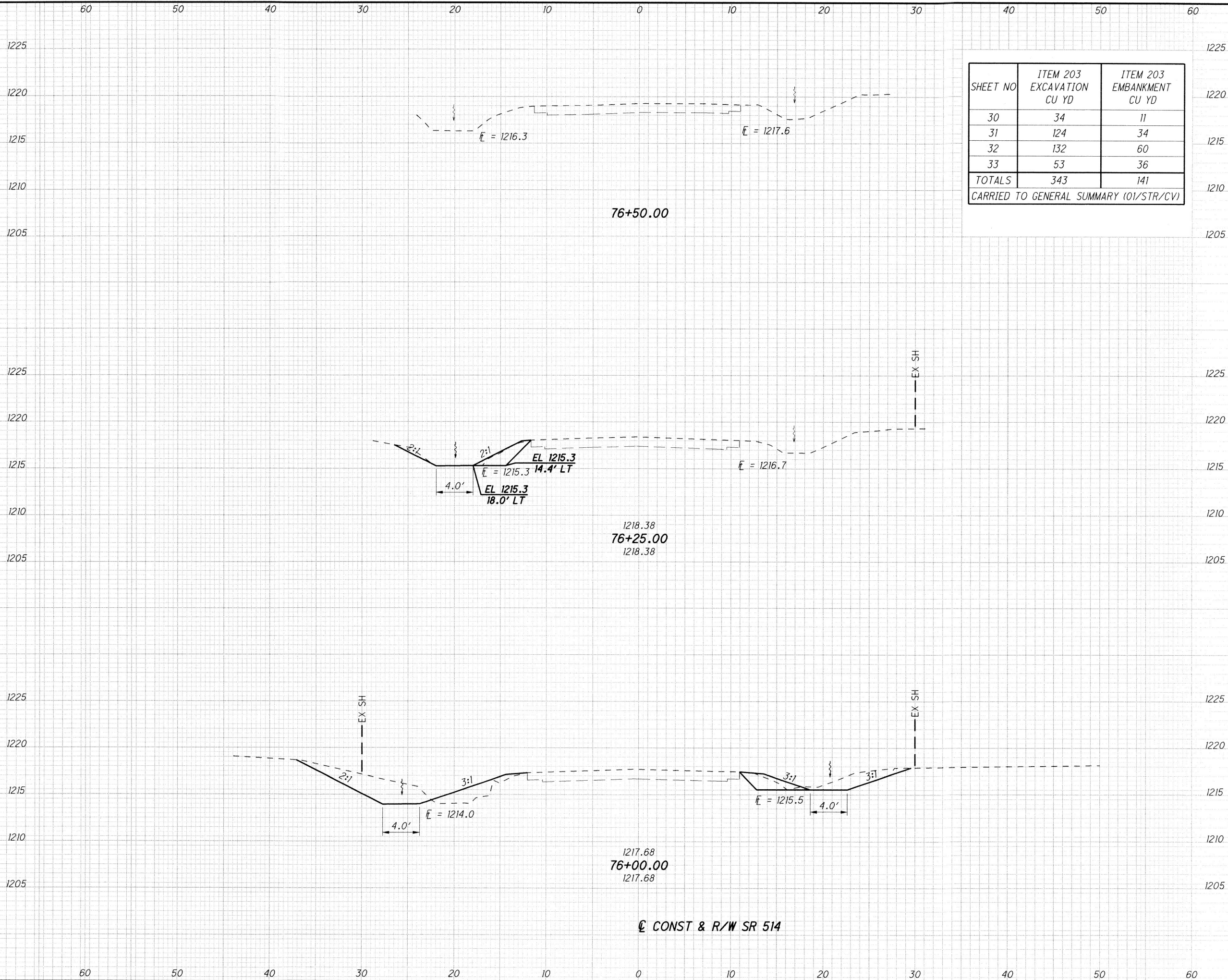
HOL 62/VAR
5.06/VAR

32
48

i:\ProjectData\105124\DesignFiles From Consultant\Design\Roadway\Sheets\105124_XS003.dgn Sheet 03-DEC-2020 9:09AM dflick

SEE GENERAL NOTES FOR SEEDING AND MULCHING QUANTITIES

SEEDING
END SO.
WIDTH YDS.



SHEET NO	ITEM 203 EXCAVATION CU YD	ITEM 203 EMBANKMENT CU YD
30	34	11
31	124	34
32	132	60
33	53	36
TOTALS	343	141

CARRIED TO GENERAL SUMMARY (01/STR/CV)

END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
1225				
1220				
1215				
1210				
1205				
1225	1	6		
1220				
1215				
1210				
1205				
1225			15	8
1220				
1215	32	1		
1210				
1205				
			38	28
			53	36

CALCULATED
GGW
CHECKED
RSH

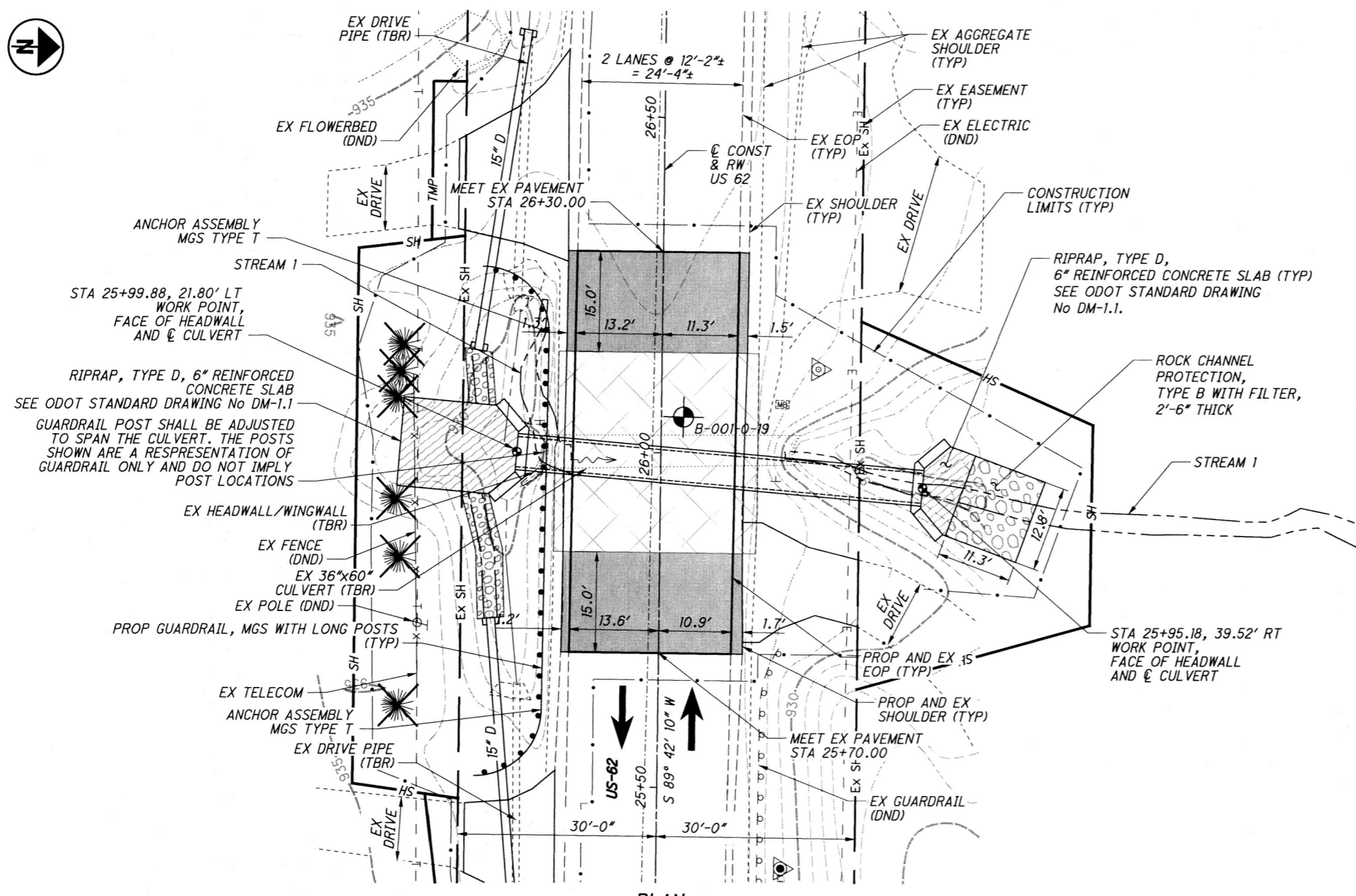
CROSS SECTIONS - SR 514
STA. 76+00.00 TO STA. 76+50.00

HOL 62 / VAR
5.06 / VAR

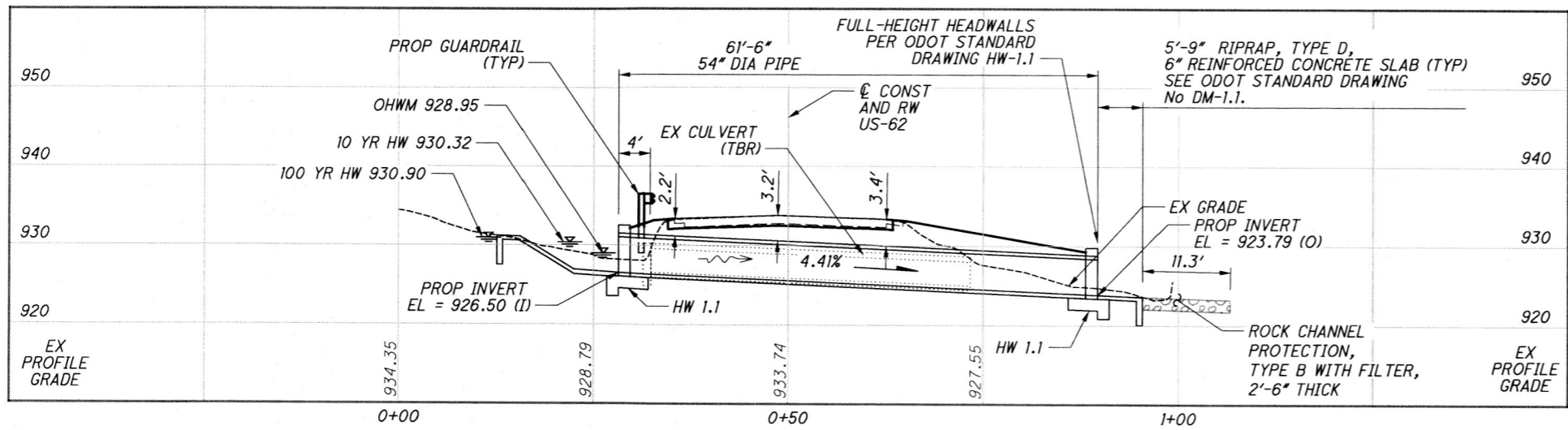
33
48

CONST & R/W SR 514

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PLAN



PROFILE ALONG CENTERLINE CULVERT

PROPOSED CONDUIT: 61'-6" - 54" CONDUIT, TYPE A, 707.02 (0.188) WITH CONCRETE INVERT PAVING, 706.02, 707.33

NOTES

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR DESIGN TRAFFIC INFORMATION SEE SHEET 1/48
3. FOR BENCHMARK INFORMATION SEE SHEET 4/48

LEGEND

- WORKPOINT
- RIPRAP, TYPE D
- MILL AND FILL
- RCP, TYPE B
- RCP, TYPE C
- FULL DEPTH PAVEMENT OVER PROP CULVERT

DESIGN TRAFFIC

CURRENT ADT (2021) = 1840
 DESIGN YEAR ADT (2041) = 1940
 DESIGN HOURLY VOLUME (2041) = 184
 TRUCKS (24 HOUR B&C) = 14%
 FOR ADDITIONAL DESIGN TRAFFIC INFORMATION SEE ROADWAY PLAN SHEET 1/48

EXISTING STRUCTURE

TYPE: 60" X 36" CONCRETE BOX CULVERT (41' LONG)
 SPAN: 5'-0"± MEASURED NORMAL TO CL CULVERT
 SKEW: 0°37'01"± RF
 ALIGNMENT: TANGENT
 DATE BUILT: 1917
 CULVERT FILE NUMBER: 1805764
 COORDINATES: LATITUDE: N 40°27'38"
 LONGITUDE: W 82°06'12"
 DISPOSITION: TO BE REPLACED

PROPOSED STRUCTURE

TYPE: 54" DIAMETER TYPE A 61'-6" LONG PIPE WITH FULL-HEIGHT HEADWALLS. SEE ODOT STANDARD DRAWING No HW-1.1 DATED 07-20-2018.
 SPAN: 4'-6" CLEAR SPAN MEASURED NORMAL TO CL CULVERT
 LOADING: HL-93 WITH 60 PSF FWS
 SKEW: 0°37'01" RF
 ALIGNMENT: TANGENT
 CROWN: NORMAL
 CFN: 1977133

HYDRAULIC DATA

DRAINAGE AREA = 0.06 SQ. MILES
 Q (10) = 43 CFS V (10) = 13.9 FT/S EL (10) = 930.32 FT
 Q (100) = 59 CFS V (100) = 14.7 FT/S EL (100) = 930.90 FT
 SERVICE LIFE = 135 YEARS
 STREAM PH = 7.5 ABRASION LEVEL 4

PROJECT EARTH DISTURBED AREA: 0.15 AC
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.10 AC
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED

DESIGN AGENCY: **EMHT**

DATE: 09/28/20

REVIEWED: CAS

DESIGNED: RUE

DRAWN: GB

CHECKED: TDA

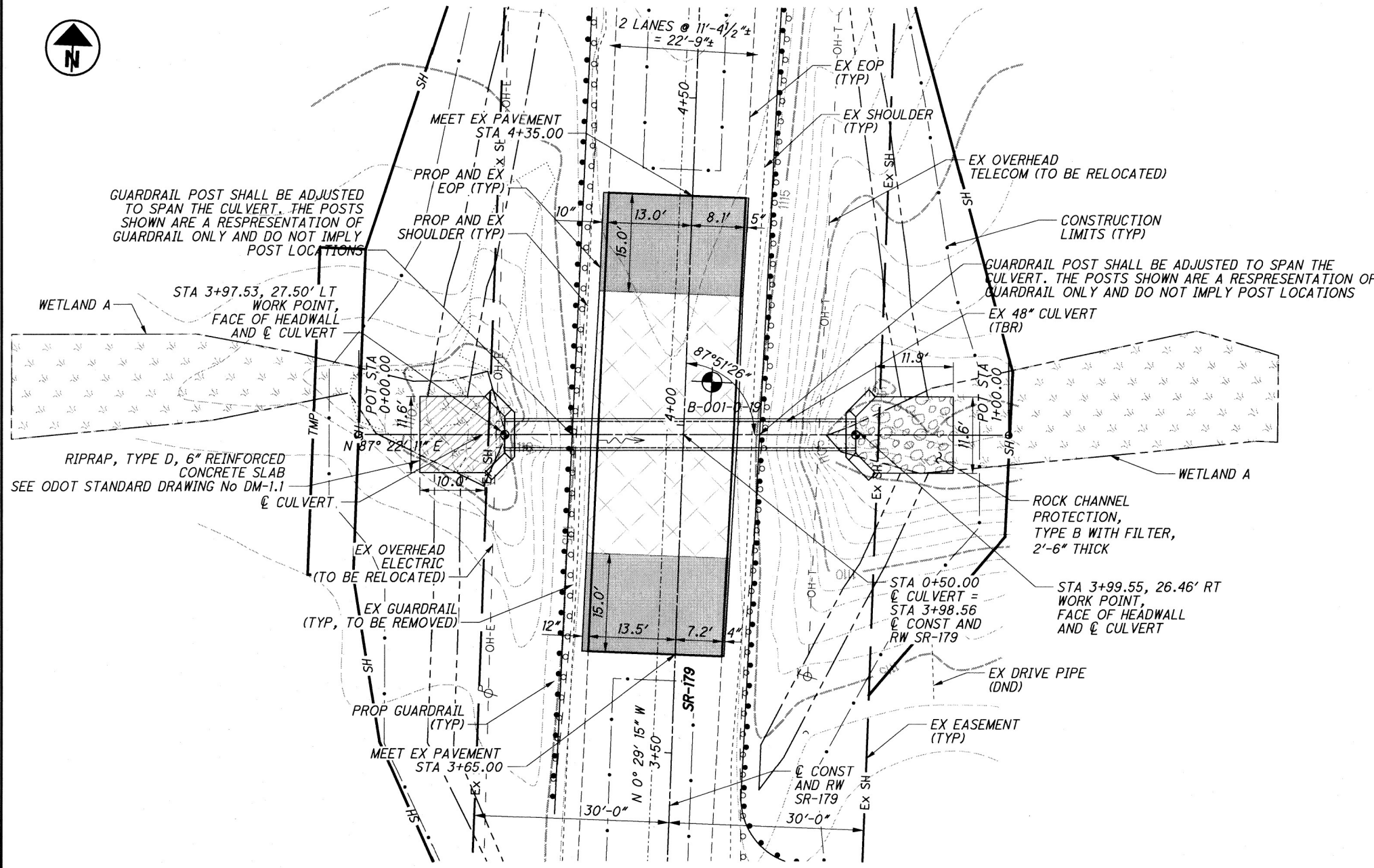
REVISION: 1

CULVERT FILE NUMBER: 1977133

CULVERT REPLACEMENT

HOL 62 / VAR 5.06 / VAR PID No. 105124

34
48



- NOTES**
- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - FOR DESIGN TRAFFIC INFORMATION SEE SHEET 1/48
 - FOR BENCHMARK INFORMATION SEE SHEET 4/48

- LEGEND**
- - WORKPOINT
 - [Hatched Box] - RIPRAP, TYPE D
 - [Cross-hatched Box] - FULL DEPTH PAVEMENT OVER PROP CULVERT
 - [Solid Box] - MILL AND FILL
 - [Dotted Box] - RCP, TYPE B

DESIGN TRAFFIC

CURRENT ADT (2021) = 910
 DESIGN YEAR ADT (2041) = 960
 DESIGN HOURLY VOLUME (2041) = 91
 TRUCKS (24 HOUR B&C) = 19%

FOR ADDITIONAL DESIGN TRAFFIC INFORMATION SEE ROADWAY PLAN SHEET 1/48

EXISTING STRUCTURE

TYPE: 48" CMP CULVERT (50' LONG)
 SPAN: 4'-0" ± MEASURED NORMAL TO CULVERT
 SKEW: 2°08'34" ± RF
 ALIGNMENT: TANGENT
 DATE BUILT: 1960
 CULVERT FILE NUMBER: 1847635
 COORDINATES: LATITUDE: N 40°36'12"
 LONGITUDE: W 82°07'31"
 DISPOSITION: TO BE REPLACED

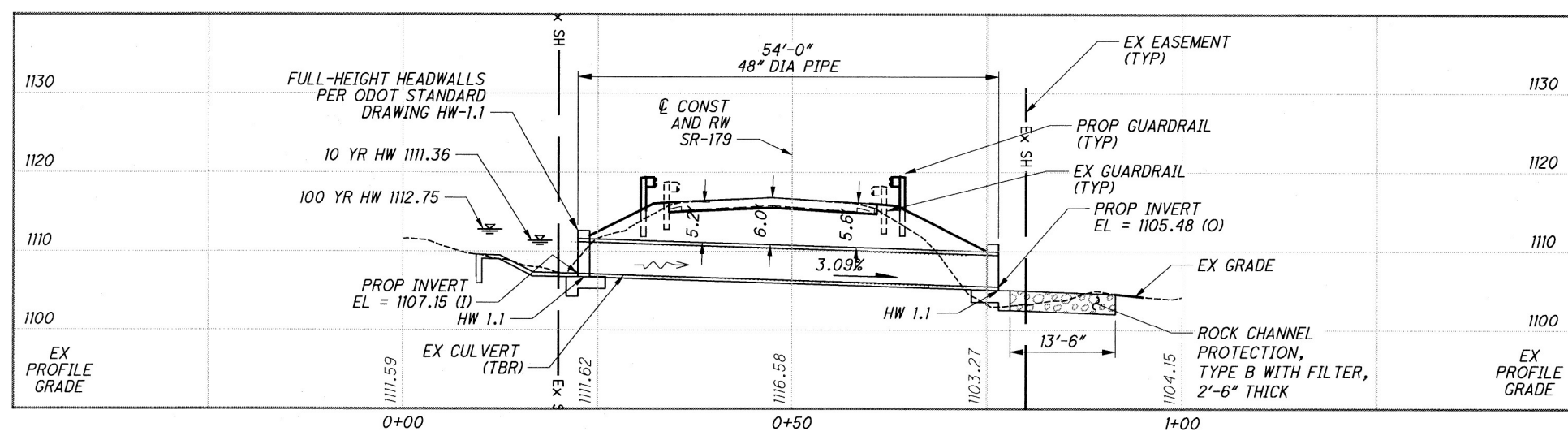
PROPOSED STRUCTURE

TYPE: 48" DIAMETER TYPE A 54'-0" LONG PIPE WITH FULL-HEIGHT HEADWALLS. SEE ODOT STANDARD DRAWING No HW-1.1 DATED 07-20-2018.
 SPAN: 4'-0" CLEAR SPAN MEASURED NORMAL TO CULVERT
 LOADING: HL-93 WITH 60 PSF FWS
 SKEW: 2°08'34" RF
 ALIGNMENT: TANGENT
 CROWN: NORMAL
 CNF: 1977120

HYDRAULIC DATA

DRAINAGE AREA = 0.07 SQ. MILES
 Q (10) = 79 CFS V (10) = 13.8 FT/S EL (10) = 1111.36 FT
 Q (100) = 109 CFS V (100) = 14.9 FT/S EL (100) = 1112.75 FT
 SERVICE LIFE = 165 YEARS
 STREAM PH = 7.5 ABRASION LEVEL 2

PROJECT EARTH DISTURBED AREA: 0.30 AC
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.10 AC
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED



PROFILE ALONG CENTERLINE CULVERT

PROPOSED CONDUIT: 54' - 48" CONDUIT, TYPE A, 707.02 (0.249), 706.02, 707.33

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DESIGN AGENCY: **EMHT**

DATE: 09/28/20

REVIEWED: CAS

DRAWN: GB

DESIGNED: RJE

CHECKED: TDA

CULVERT FILE NUMBER: 1977120

CULVERT REPLACEMENT

HOL 62/VAR

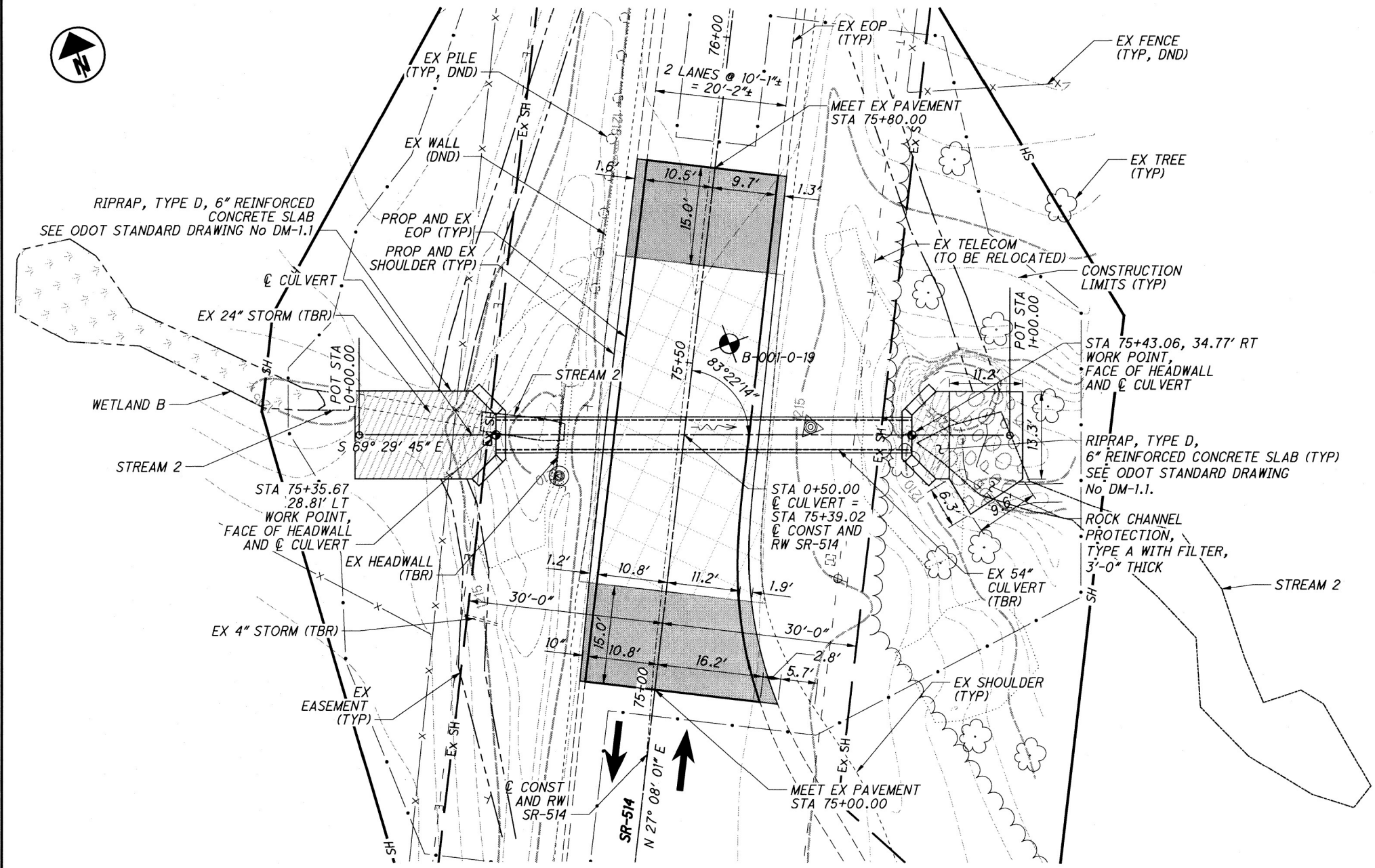
5.06/VAR

PID No. 105124

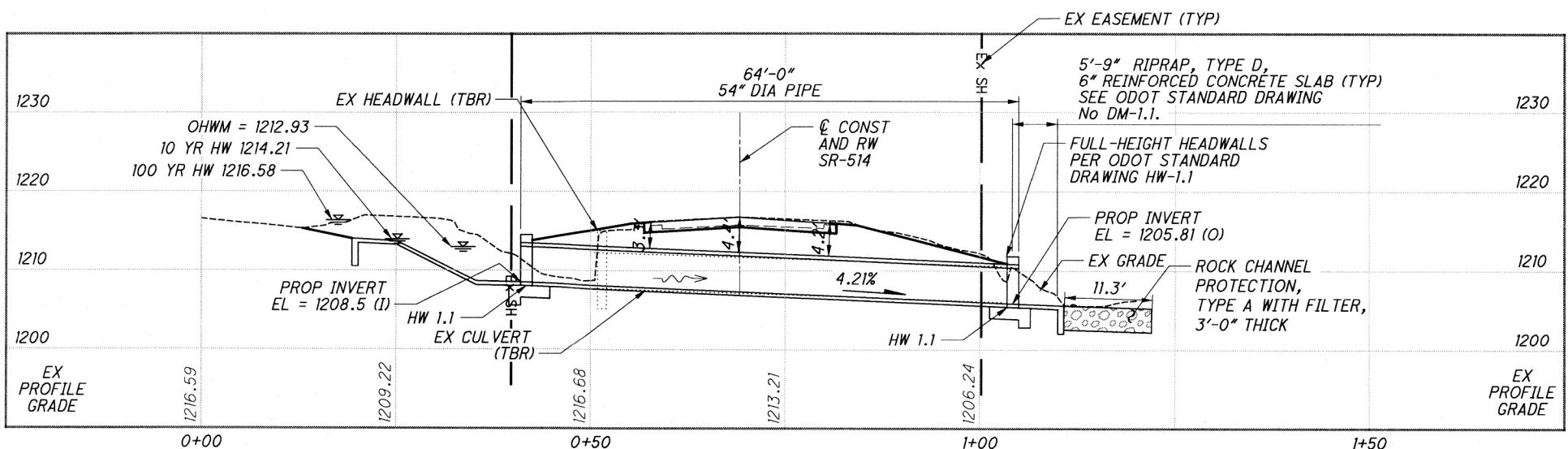
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PLAN



PROFILE ALONG CENTERLINE CULVERT

PROPOSED CONDUIT: 64' - 54" CONDUIT, TYPE A, 707.02 (0.28), 706.02, 707.33

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- FOR DESIGN TRAFFIC INFORMATION SEE SHEET 1/48
- FOR BENCHMARK INFORMATION SEE SHEET 4/48

LEGEND

- - WORKPOINT
- ▨ - RIPRAP, TYPE D
- ▩ - MILL AND FILL
- ▧ - RCP, TYPE A
- ▭ - FULL DEPTH PAVEMENT OVER PROP CULVERT

DESIGN TRAFFIC

CURRENT ADT (2021) = 620
 DESIGN YEAR ADT (2041) = 660
 DESIGN HOURLY VOLUME (2041) = 62
 TRUCKS (24 HOUR B&C) = 12%
 FOR ADDITIONAL DESIGN TRAFFIC INFORMATION SEE ROADWAY PLAN SHEET 1/48

EXISTING STRUCTURE

TYPE: 54" CMP CULVERT (50' LONG)
 SPAN: 4'-6"± MEASURED NORMAL TO CULVERT
 SKEW: 6°37'46"± RF
 ALIGNMENT: TANGENT
 DATE BUILT: UNKNOWN
 CULVERT FILE NUMBER: 1835956
 COORDINATES: LATITUDE: N 40°33'13"
 LONGITUDE: W 82°09'58"
 DISPOSITION: TO BE REPLACED

PROPOSED STRUCTURE

TYPE: 54" DIAMETER TYPE A 64'-0" LONG PIPE WITH FULL-HEIGHT HEADWALLS. SEE ODOT STANDARD DRAWING No HW-1.1 DATED 07-20-2018.
 SPAN: 4'-6" CLEAR SPAN MEASURED NORMAL TO CULVERT
 LOADING: HL-93 WITH 60 PSF FWS
 SKEW: 6°37'46" RF
 ALIGNMENT: TANGENT
 CROWN: NORMAL
 CFN: 1977121

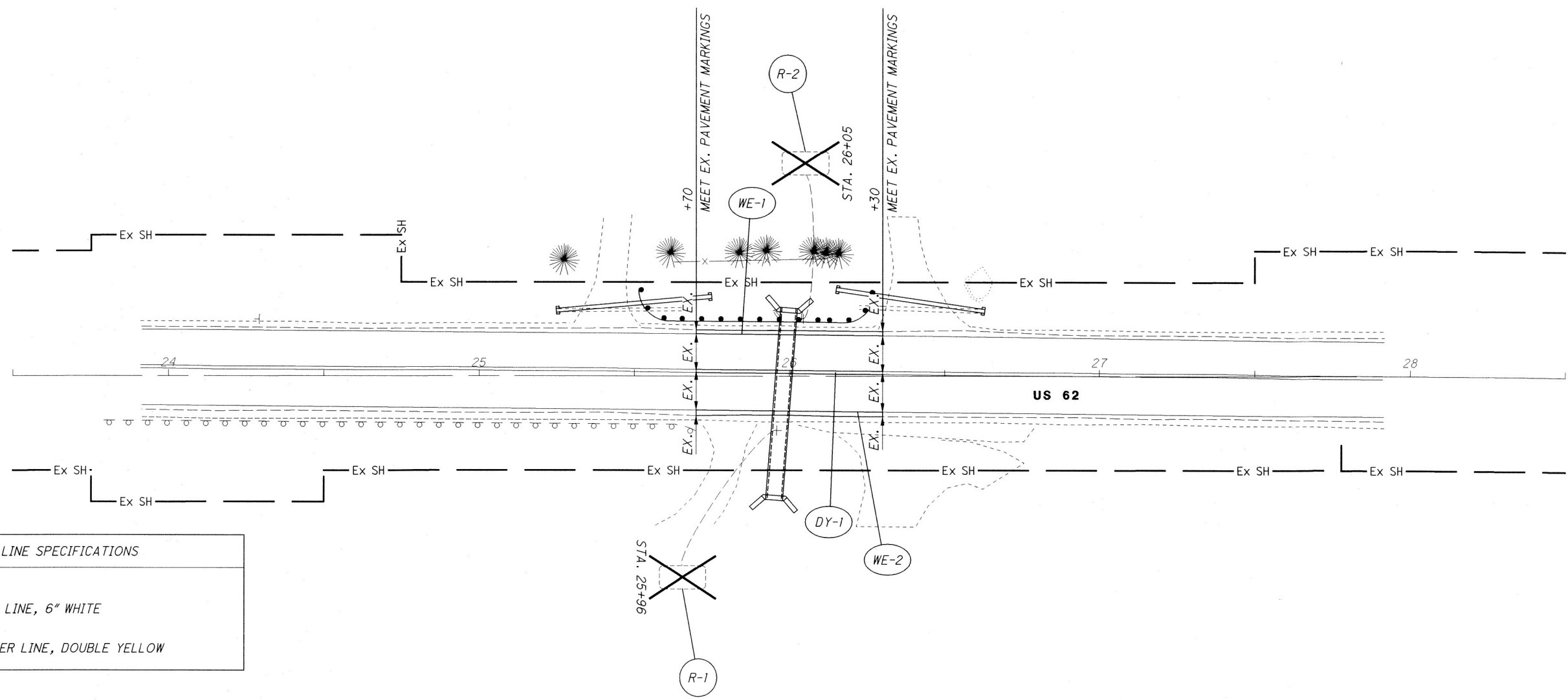
HYDRAULIC DATA

DRAINAGE AREA = 0.11 SQ. MILES
 Q (10) = 133 CFS V (10) = 17.0 FT/S EL (10) = 1214.21 FT
 Q (100) = 182 CFS V (100) = 18.3 FT/S EL (100) = 1216.58 FT
 SERVICE LIFE = 162 YEARS
 STREAM PH = 8.0 ABRASION LEVEL 3

PROJECT EARTH DISTURBED AREA: 0.25 AC
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.10 AC
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED

DESIGN AGENCY: EMHT
 DATE: 09/28/20
 REVIEWED: CAS
 DRAWN: GB
 DESIGNED: RJE
 CHECKED: TDA
 CULVERT FILE NUMBER:
 REVISIONS:
 CULVERT DETAIL SHEET
 HOL-514-1.42
 CULVERT REPLACEMENT
 HOL 62/ VAR
 5.04/ VAR
 PID No. 105124

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LINE SPECIFICATIONS	
ITEM 646	
(WE)	EDGE LINE, 6" WHITE
(DY)	CENTER LINE, DOUBLE YELLOW

PAVEMENT MARKING LEGEND	
(XX)	= PROPOSED PAVEMENT MARKINGS (ITEM 646)
(XX)	= EXISTING PAVEMENT MARKINGS

SIGNING LEGEND	
(---)	= EXISTING SIGN
(X)	= EXISTING SIGN REMOVED
()	= PROPOSED SIGN

NOTES:
 1. FOR CLARITY, UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN ON THIS SHEET. THE CONTRACTOR SHALL REFERENCE THE APPROPRIATE PLAN AND PROFILE SHEET FOR UTILITY LOCATIONS PRIOR TO PLACING SIGN POSTS.



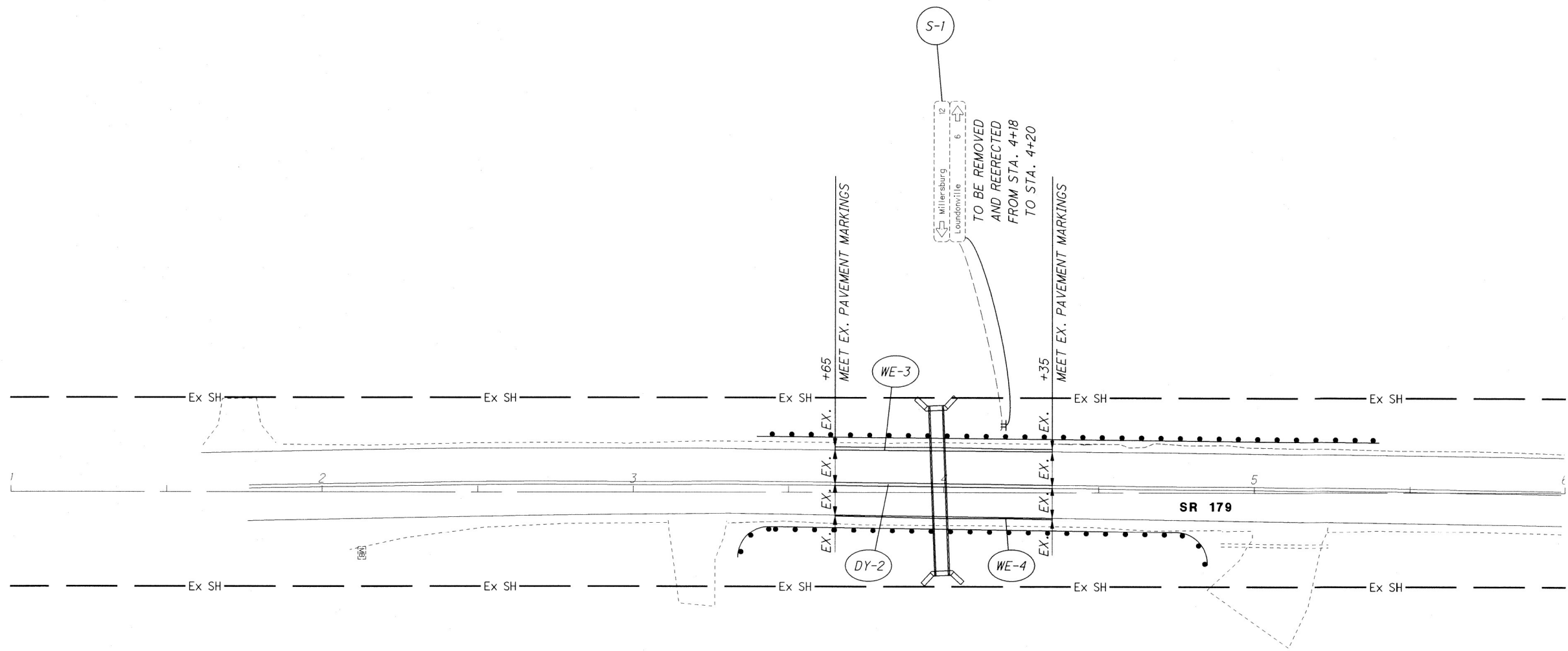
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TRAFFIC CONTROL PLAN - US 62
STA. 23+50 TO STA. 28+50

HOL 62 / VAR
5.06 / VAR

37
48

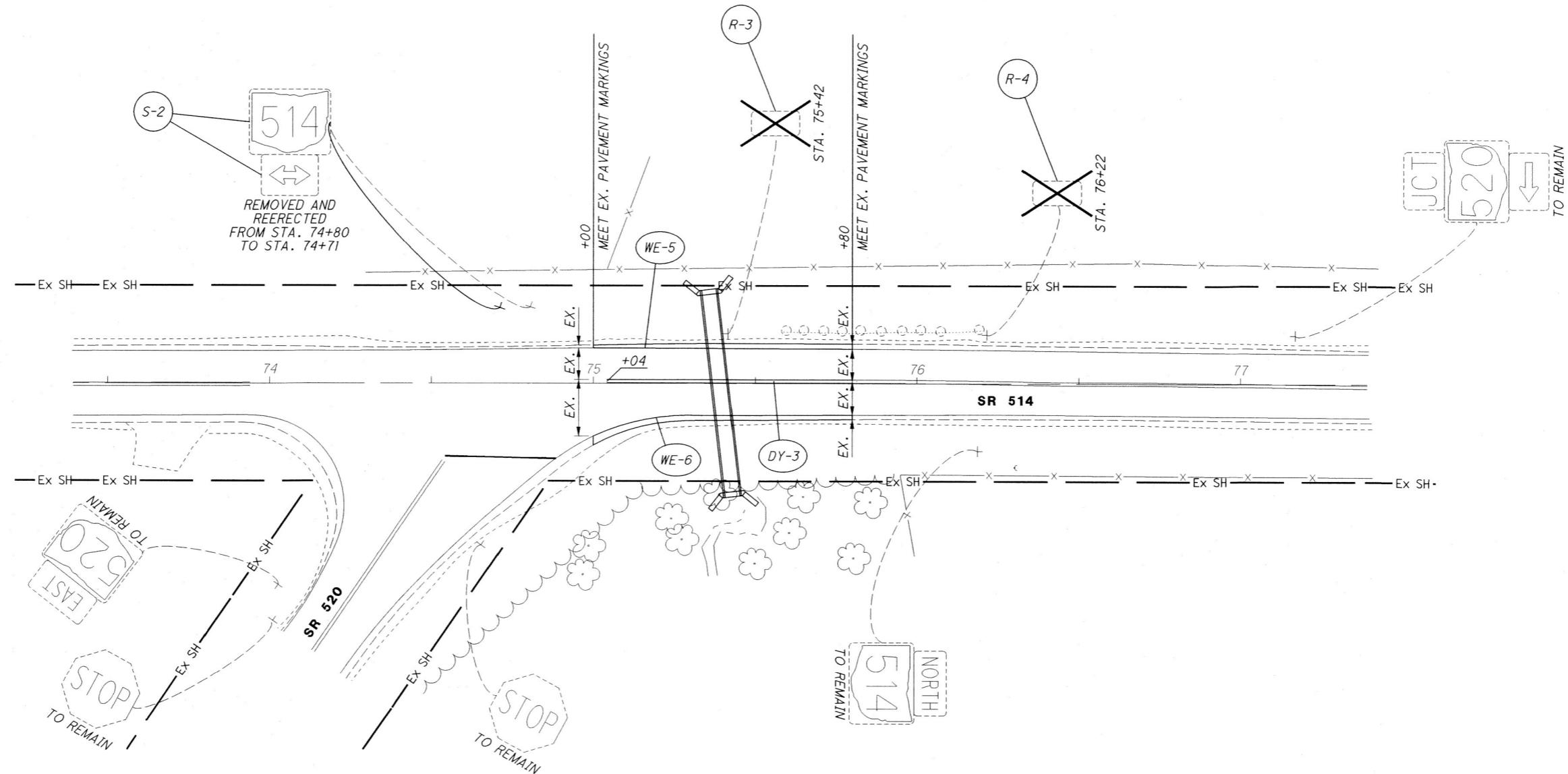
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NOTES:
 1. FOR CLARITY, UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN ON THIS SHEET. THE CONTRACTOR SHALL REFERENCE THE APPROPRIATE PLAN AND PROFILE SHEET FOR UTILITY LOCATIONS PRIOR TO PLACING SIGN POSTS.
 2. FOR SIGNING AND PAVEMENT MARKING LEGEND, SEE SHEET 37

CALCULATED BY BER	CHECKED BY SMM	 HORIZONTAL SCALE IN FEET 0 10 20 40
38 / 48		

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NOTES:
 1. FOR CLARITY, UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN ON THIS SHEET. THE CONTRACTOR SHALL REFERENCE THE APPROPRIATE PLAN AND PROFILE SHEET FOR UTILITY LOCATIONS PRIOR TO PLACING SIGN POSTS.
 2. FOR SIGNING AND PAVEMENT MARKING LEGEND, SEE SHEET 37

CALCULATED	BER	CHECKED	SMM

0 10 20 40
 HORIZONTAL SCALE IN FEET

HOL 62/VAR
5.06/VAR
TRAFFIC CONTROL PLAN - SR 514
STA. 73+50 TO STA. 77+50

