SAMPLE PLAN SHEETS

Location and Design Manual, Volume Three
Highway Plans

Office of CADD & Mapping Services **Division Of Engineering**

SAMPLE PLAN SHEETS

MODEL: SP1301-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SAMPLE PLAN SHEETS

PURPOSE AND APPLICATION

THE SAMPLE PLAN SHEETS ARE CONSIDERED TO BE AN INTEGRAL PART OF THE LOCATION AND DESIGN MANUAL'S VOLUME 3. IT IS FOR INFORMATIONAL PURPOSES ONLY AND IS INTENDED TO BE USED AS A STANDARDIZED GUIDELINE FOR THE PREPARATION OF HIGHWAY CONSTRUCTION PLANS IN THE STATE OF OHIO. EXAMPLES CONTAINED HEREIN ILLUSTRATE PREFERRED TECHNIQUES TO ENSURE THE UNIFORMITY, QUALITY, AND CONTINUITY OF THE PLANS, BUT DO NOT NECESSARILY REPRESENT A PREFERRED DESIGN. EXAMPLES HAVE BEEN PROVIDED BASED UPON THE MOST COMMONLY OCCURRING SITUATIONS. HOWEVER, IT IS RECOGNIZED THAT SOME PROJECTS MAY HAVE UNUSUAL CIRCUMSTANCES THAT MAY REQUIRE VARIATIONS FROM THE STANDARDS CONTAINED HEREIN. PLEASE CONTACT THE APPROPRIATE ODOT TECHNICAL OFFICE WITH QUESTIONS.

THIS SET OF SAMPLE PLAN SHEETS IS A COLLECTION OF INDIVIDUAL SHEET TYPES. IT SHOULD NOT BE CONSIDERED, OR USED, AS A SINGLE, COORDINATED PLAN. ACTUAL PLAN SHEETS HAVE BEEN USED TO DEVELOP THE SHEETS CONTAINED HEREIN. IT IS IMPORTANT TO NOTE THAT MODIFICATIONS HAVE BEEN MADE TO THESE SHEETS IN ORDER TO DEVELOP AN APPROPRIATE SAMPLE SHEET, THEREFORE, THEY ARE NO LONGER TO BE CONSIDERED AN OFFICIAL RECORD OF THE PLANS FROM WHICH THEY WERE TAKEN.

IN CASES WHERE THE INFORMATION SHOWN ON A SAMPLE PLAN SHEET IS IN CONFLICT WITH, OR CONTRADICTORY TO, THE DESIGN POLICIES OR PRACTICES CONTAINED IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, DESIGN MANUALS, OR STANDARD CONSTRUCTION DRAWINGS, THE POLICIES OR PRACTICES WILL SUPERSEDE THE CONFLICTING SAMPLE PLAN SHEET INFORMATION.

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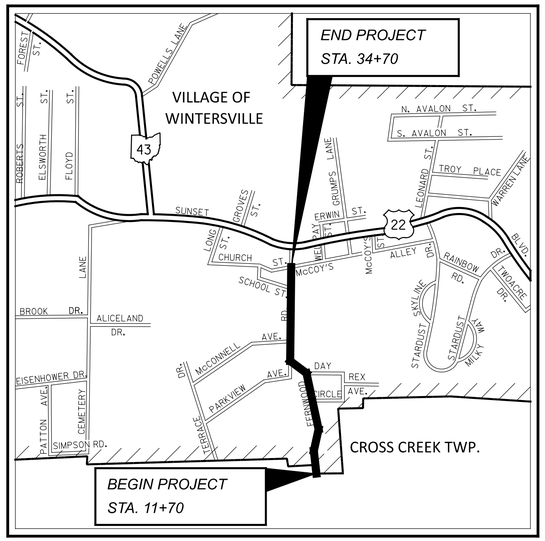
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

JEF-FERNWOOD RD.

VILLAGE OF WINTERSVILLE

CROSS CREEK TOWNSHIP

JEFFERSON COUNTY



LOCATION MAP

LATITUDE: 40 °22'20" LONGITUDE: 80 °42'05"

PORTION TO BE IMPROVED ———
INTERSTATE HIGHWAY ———
FEDERAL ROUTES ———
STATE ROUTES ———
COUNTY & TOWNSHIP ROADS ———
OTHER ROADS ———

DESIGN DESIGNATION

CURRENT ADT (2016)	*2940*
DESIGN YEAR ADT (2036)	*4494*
DESIGN HOURLY VOLUME (2036)	*449*
DIRECTIONAL DISTRIBUTION	*50%*
TRUCKS (24 HOUR B&C)	*3%*
DESIGN SPEED	*3R PROJECT*
LEGAL SPEED	*35 MPH*
DESIGN FUNCTIONAL CLASSIFICATION:	
06 MINOR COLLECTOR (URBAN)	
NHS PROJECT	*NO*

DESIGN EXCEPTIONS

DESIGN FEATURE	*APPROVAL DATES*	*SHEET NUMBER*
HORIZONTAL: SUPERELEVATION	*6-27-19*	*P.2*
VERTICAL: STOPPING SIGHT DISTANCE	*6-27-19*	*P.10, P.12*

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JOHN J. DOE CONSULTING, INC.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

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RIGHT OF WAY	

FEDERAL PROJECT NUMBER

E025 (762)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

UPGRADING 0.44 MILE OF FERNWOOD ROAD BY WIDENING AND RESURFACING, INCLUDING NEW STORM SEWER SYSTEM, CURB AND GUTTER, SIDEWALK, TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*3.1 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*0.5 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*3.6 ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Johnathon E. Smith
Johnathon E. Smith
District 11 Deputy Director

Joseph D. Director
Joseph D. Director
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS

BP-1.1	*7/28/00*	*MGS-1.1*	*7/16/21*	*TC-42.10*	*10/18/13*		
BP-2.1	*1/21/22*	*MGS-2.1*	*1/19/18*	*TC-52.10*	*10/18/13*		
BP-2.2	*1/15/21*	*MGS-4.2*	*7/19/13*	*TC-52.20*	*1/15/21*		
BP-3.1	*1/19/24*	*MGS-5.3*	*7/15/16*	*TC-71.10*	*4/21/23*		
BP-4.1	*7/19/13*						
BP-5.1	*7/15/22*	*MH-1*	*7/15/22*				
BP-7.1	*7/19/24*	*MH-2*	*7/19/24*				
		MH-3	*7/19/24*				
CB-2-2A, 2B, 2C	*7/19/24*						
CB-2-3, 2-4	*7/19/24*	*HW-2.1*	*7/15/22*				
		HW-2.2	*7/20/18*				
DM-1.1	*7/17/20*						
DM-4.4	*1/15/16*	*MT-105.10*	*1/17/20*				
LA-1.1	*10/15/10*	*TC-41.20*	*10/18/13*				
LA-1.2	*1/16/09*	*TC-41.40*	*10/18/13*				

SUPPLEMENTAL SPECIFICATIONS	
800-2023	*7/19/24*
832	*7/19/24*

SPECIAL PROVISIONS
REINFORCED EARTH 5/27/17
WATERWAY PERMIT 1/23/18

ENGINEER'S SEAL

STATE OF OHIO
JOHN J. DOE
E-000000
REGISTERED
PROFESSIONAL ENGINEER

TITLE SHEET

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER CLE
REVIEWER CMH 01/17/25
PROJECT ID 130201
SHEET P.1 TOTAL 50

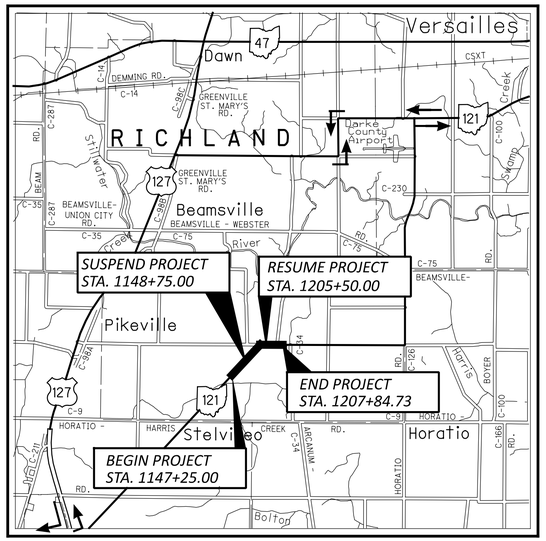
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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

DAR-121-(21.73)(22.83)

RICHLAND TOWNSHIP

DARKE COUNTY



LOCATION MAP

LATITUDE: 40 °09'30" LONGITUDE: 84 °34'05"

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

DESIGN DESIGNATION

CURRENT ADT (2013)	*1460*
DESIGN YEAR ADT (2033)	*2040*
DESIGN HOURLY VOLUME (2033)	*204*
DIRECTIONAL DISTRIBUTION	*50%*
TRUCKS (24 HOUR B&C)	*2%*
DESIGN SPEED	*55 MPH*
LEGAL SPEED	*55 MPH*
DESIGN FUNCTIONAL CLASSIFICATION:	
05 MAJOR COLLECTOR (RURAL)	
NHS PROJECT	*NO*

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JOHN J. DOE CONSULTING, INC.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

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STRUCTURES OVER 20 FOOT SPAN	*P.26-P.30*
SOIL PROFILES	*P.31-P.36*
RIGHT OF WAY	

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

IMPROVEMENT OF 0.07 MILE OF STATE ROUTE 121 BY REPLACEMENT OF TWO STRUCTURES OVER A BRANCH OF THE STILLWATER RIVER, INCLUDING APPROACH RECONSRUCTION.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*5.4 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*2.1 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*7.5 ACRES*

2023 SPECIFICATIONS

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I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.1.

Johnathon E. Smith
Johnathon E. Smith
District 07 Deputy Director

Joseph D. Director
Joseph D. Director
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	*1/19/24*	*A-1-20*	*1/21/22*				
BP-4.1	*7/19/13*	*EXJ-4-87*	*1/19/24*				
		PSBD-2-07	*7/20/18*				
DM-1.1	*7/17/20*	*TST-1-99*	*1/15/21*				
DM-4.1	*7/17/20*						
LA-1.1	*10/15/10*						
LA-1.2	*1/16/09*						
MGS-1.1	*7/16/21*						
MGS-2.1	*1/19/18*						
MGS-4.2	*7/19/13*						
MGS-5.3	*7/15/16*						
WQ-1.1	*7/21/23*						
WQ-1.2	*1/15/16*						

SUPPLEMENTAL SPECIFICATIONS		*SPECIAL PROVISIONS*
800-2023	*7/19/24*	*WATERWAY PERMIT 1/23/16*
832	*7/19/24*	

ENGINEER'S SEAL	*ENGINEER'S SEAL*
FOR ENTIRE PLAN EXCEPT STRUCTURES OVER 20' SPAN	*FOR STRUCTURES OVER 20' SPAN*
STATE OF OHIO JANE C. SMITH E-000000 REGISTERED PROFESSIONAL ENGINEER	STATE OF OHIO JOHN J. DOE E-000000 REGISTERED PROFESSIONAL ENGINEER

TITLE SHEET

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER: DAY
REVIEWER: CAK 01/17/25
PROJECT ID: 130202
SHEET: P.1 TOTAL: 36

DAR-121-(21.73)(22.83)

MODEL: SP1302-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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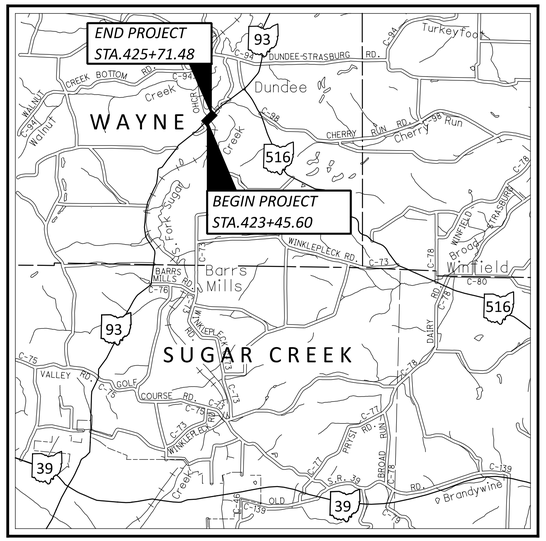
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

TUS-93-8.02

RECONSTRUCTION OF EXISTING SEPARATED CROSSING WITH THE OHIO CENTRAL RAILROAD

WAYNE TOWNSHIP

TUSCARAWAS COUNTY



LOCATION MAP

LATITUDE: 40 °34'20" LONGITUDE: 81 °37'00"

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

DESIGN DESIGNATION

CURRENT ADT (2018)	*1270*
DESIGN YEAR ADT (2038)	*2240*
DESIGN HOURLY VOLUME (2038)	*224*
DIRECTIONAL DISTRIBUTION	*60%*
TRUCKS (24 HOUR B&C)	*5%*
DESIGN SPEED	*55 MPH*
LEGAL SPEED	*55 MPH*

DESIGN FUNCTIONAL CLASSIFICATION:
06 MINOR COLLECTOR (RURAL)

NHS PROJECT — *NO*

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JOHN J. DOE CONSULTING, INC.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

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TRAFFIC CONTROL	*P.14*
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SOIL PROFILES	*P.22-P.28*
RIGHT OF WAY	

FEDERAL PROJECT NUMBER

E073 (345)

RAILROAD INVOLVEMENT

OHIO CENTRAL R.R.

PROJECT DESCRIPTION

REHABILITATION OF THE EXISTING STRUCTURE OVER THE OHIO CENTRAL RAILROAD BY REPLACEMENT OF THE BRIDGE DECK AND APPROACH SLABS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*1.5 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*0.7 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*2.2 ACRES*

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Johnathon E. Smith
Johnathon E. Smith
District 11 Deputy Director

Joseph D. Director
Joseph D. Director
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	*1/19/24*	*CS-1-24*	*7/19/24*				*800-2023*	*7/19/24*	*WATERWAY PERMIT 1/23/18*
BP-4.1	*7/19/13*						*832*	*7/19/24*	
BP-5.1	*7/15/22*	*MT-96.11*	*7/21/23*						
		MT-96.20	*7/21/23*						
DM-1.1	*7/17/20*	*MT-96.26*	*1/18/19*						
DM-4.4	*1/15/16*								
MGS-1.1	*7/16/21*								
MGS-2.1	*1/19/18*								
MGS-3.1	*1/19/18*								
MGS-4.2	*7/19/13*								
MGS-5.3	*7/15/16*								
RM-4.2	*4/17/20*								
CPA-1-08	*1/19/24*								

SUPPLEMENTAL SPECIFICATIONS | **SPECIAL PROVISIONS**

ENGINEER'S SEAL	*ENGINEER'S SEAL*
FOR ENTIRE PLAN EXCEPT STRUCTURES OVER 20' SPAN	*FOR STRUCTURES OVER 20' SPAN*
STATE OF OHIO · JANE C. SMITH · E-000000 · REGISTERED PROFESSIONAL ENGINEER	STATE OF OHIO · JOHN J. DOE · E-000000 · REGISTERED PROFESSIONAL ENGINEER

TITLE SHEET

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER LCK
REVIEWER TOL 01/17/25
PROJECT ID 130203
SHEET P.1 TOTAL 28

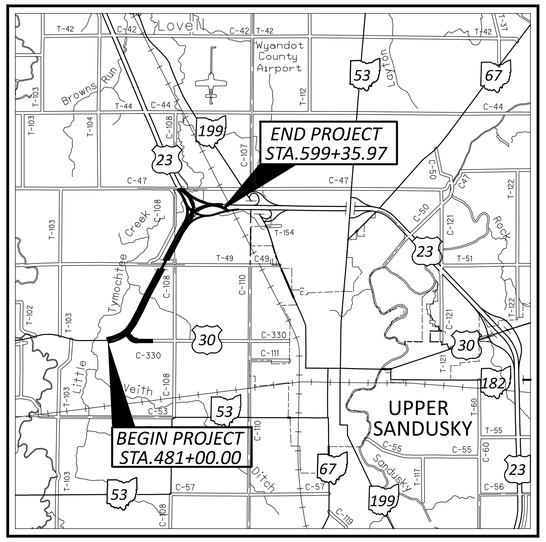
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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

WYA-30-9.11

SALEM TOWNSHIP

WYANDOT COUNTY



LOCATION MAP

LATITUDE: 40 °50'50" LONGITUDE: 83 °18'35"

N

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

DESIGN DESIGNATION

CURRENT ADT (2019)	*3510*
DESIGN YEAR ADT (2039)	*4880*
DESIGN HOURLY VOLUME (2039)	*488*
DIRECTIONAL DISTRIBUTION	*55%*
TRUCKS (24 HOUR B&C)	*20%*
DESIGN SPEED	*70 MPH*
LEGAL SPEED	*55 MPH*
DESIGN FUNCTIONAL CLASSIFICATION:	
06 FREEWAY RURAL	
T_d	*20%*
NHS PROJECT	*NO*

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JANE C. SMITH CONSULTING, INC
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

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FEDERAL PROJECT NUMBER

E043 (184)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CONSTRUCTION OF A 2.24 MILE CONNECTION FROM U.S. 30 TO U.S. 23, WITH A CONNECTING ROAD AT U.S. 30 AND A LIGHTED INGERCHANGE AT U.S. 23. INCLUDING CONSTRUCTION OF STRUCTURES U.S. 30 UNDER T.R. 49, U.S. 30 WB OVER U.S. 23 SB, RAMP B, AND U.S. 23 UNDER C.R. 47: REPLACEMENT OF STRUCTURES U.S. 23 NB AND SB OVER LITTLE TYMOCHTEE CREEK; RECONSTRUCTION OF VARIOUS LOCAL ROADS; AND INSTALLATION OF NECESSARY TRAFFIC CONTROL DEVICES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*20.6 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*5.4 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*26.0 ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEETS P.51-P.52 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Johnathon E. Smith
Johnathon E. Smith
District 01 Deputy Director

Joseph D. Director
Joseph D. Director
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS

BP-1.1	*7/28/00*	*LA-1.2*	*1/16/09*	*WQ-1.1*	*7/21/23*	*HL-40.10*	*7/19/24*	*TC-41.50*	*10/18/13*	*800-2023*	*7/19/24*
				WQ-1.2	*1/15/16*	*HL-50.11*	*1/16/15*	*TC-42.10*	*10/18/13*	*832*	*7/19/24*
CB-2-2A, 2B, 2C	*7/19/24*	*MGS-1.1*	*7/16/21*			*HL-60.21*	*7/20/18*	*TC-42.20*	*10/18/13*		
CB-3	*7/19/24*	*MGS-2.1*	*1/19/18*	*HW-1.1*	*7/19/24*	*HL-60.31*	*7/19/24*	*TC-51.11*	*1/15/16*		
CB-3A	*7/19/24*	*MGS-3.1*	*1/19/18*	*HW-2.1*	*7/15/22*			*TC-52.10*	*10/18/13*		
CB-4	*7/19/24*	*MGS-4.2*	*7/19/13*	*HW-2.2*	*7/20/18*	*MT-95.30*	*7/19/19*	*TC-52.20*	*1/15/21*		
		MGS-5.3	*7/15/16*	*ICD-1-20*	*1/19/24*	*MT-102.10*	*7/21/23*				
DM-1.1	*7/17/20*	*MGS-6.1*	*1/19/18*								
DM-4.4	*1/15/16*			*HL-10.31*	*7/15/22*	*TC-9.11*	*1/19/24*				
		MH-1	*7/15/22*	*HL-20.11*	*7/21/23*	*TC-12.31*	*4/15/22*				
F-2.1	*7/20/18*	*MH-2*	*7/19/24*	*HL-20.14*	*4/17/20*	*TC-21.11*	*7/16/21*				
F-3.1	*7/19/13*	*MH-3*	*7/19/24*	*HL-20.21*	*1/15/21*	*TC-21.21*	*1/20/23*				
F-3.3	*7/19/13*			*HL-30.11*	*7/21/23*	*TC-22.20*	*1/17/14*				
F-3.4	*7/19/13*	*RM-1.1*	*1/20/23*	*HL-30.21*	*4/17/20*	*TC-41.10*	*7/19/13*				
		RM-4.2	*4/17/20*	*HL-30.22*	*1/15/21*	*TC-41.20*	*10/18/13*				
LA-1.1	*10/15/10*	*RM-4.3*	*1/21/22*	*HL-30.31*	*7/19/24*	*TC-41.40*	*10/18/13*				

SUPPLEMENTAL SPECIFICATIONS

SPECIAL PROVISIONS

WATERWAY PERMIT 5/01/19

GEOTECHNICAL REPORT 4/19/17

ENGINEER'S SEAL
FOR STRUCTURES OVER 20 FT SPAN
STATE OF OHIO
JOHN J. DOE
E-000000
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER'S SEAL
FOR ENTIRE PLAN EXCEPT STRUCTURES OVER 20 FT SPAN
STATE OF OHIO
JANE C. SMITH
E-000000
REGISTERED
PROFESSIONAL ENGINEER

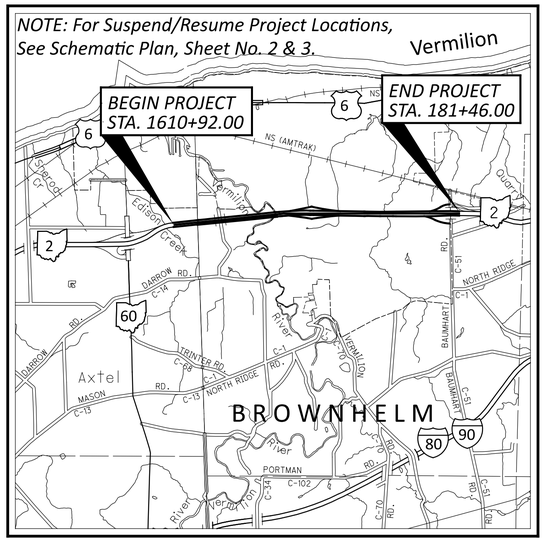
TITLE SHEET

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER TOL
REVIEWER YNG 01/17/25
PROJECT ID 130204
SHEET P.1 TOTAL 521

WYA-30-9.11

MODEL: SP1302-4 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1302-4.dgn



LOCATION MAP

LATITUDE: 41°42'10" LONGITUDE: 82°18'40"

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

FOR DESIGN DESIGNATION AND DESIGN EXCEPTION INFORMATION, SEE SHEETS P.2 AND P.3.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

ERI-2-30.51 AND VARIOUS
LOR-2-0.00 AND VARIOUS

CITY OF VERMILION
BROWNHELM TOWNSHIP
VERMILION TOWNSHIP
ERIE AND LORAIN COUNTIES

INDEX OF SHEETS:

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TYPICAL SECTIONS	P.4-P.9	SHRP PAVEMENT REPAIR	P.147-P.154, P.154A
GENERAL NOTES	P.10-P.15	PIER PROTECTION	P.155-P.156
MAINTENANCE OF TRAFFIC	P.16-P.59, P.59A	APPROACH SLABS	P.157-P.158
GENERAL SUMMARY	P.60-P.62	CURB REMOVAL & SHOULDER REPLACEMENT	P.159-P.166
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GUARDRAIL	P.63	MEDIAN CROSSOVER	P.168
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PAVEMENT GRINDING	P.81	TRAFFIC CONTROL	P.186-P.205
JOINT SEALING	P.82-P.83	STRUCTURES OVER 20 FOOT SPAN	
SEEDING	P.84-P.85	LOR-2-3001	P.206-P.214
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SUNNYSIDE ROAD	P.140-P.141		
CLAUS ROAD	P.142-P.143		

FEDERAL PROJECT NUMBER

E115 (218)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REHABILITATION OF 1.72 MILES OF EXISTING PAVEMENT AND SHOULDERS FOR ONGOING RESEARCH PROJECTS INCLUDING THE INSTALLATION OF WEIGH-IN-MOTION INSTRUMENTATION AND THE REHABILITATION OF BRIDGES UNDER WEST REIVER ROAD, VERMILION ROAD, VERMILION INTERCHANGE ROAD, SUNNYSIDE ROAD AND CLAUS ROAD AND OVER THE VERMILION RIVER AND BAUMHART ROAD.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*9.5 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*2.6 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*12.1 ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEETS P.16 & P.17 AND AS SHOWN ON SHEETS 19-22, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Johnathon E. Smith
Johnathon E. Smith
District 03 Deputy Director

Jane D. Director
Jane D. Director
Director, Department of Transportation

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JOHN J. DOE CONSULTANTS, INC.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

ENGINEER'S SEAL
FOR ENTIRE PLAN EXCEPT STRUCTURES OVER 20 FT SPAN
STATE OF OHIO — JANE C. SMITH E-000000 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S SEAL
FOR STRUCTURES OVER 20 FT SPAN
STATE OF OHIO — JOHN J. DOE E-000000 — REGISTERED PROFESSIONAL ENGINEER

STANDARD CONSTRUCTION DRAWINGS

BP-1.1	7/28/00	MGS-1.1	7/16/21	HL-10.13	1/20/23	TC-41.10	7/19/13		
BP-2.1	1/21/22	MGS-2.1	1/19/18	HL-20.14	4/17/20	TC-41.20	10/18/13		
BP-2.2	1/15/21	MGS-3.1	1/19/18	HL-30.11	7/21/23	TC-41.40	10/18/13		
BP-2.3	7/18/14	MGS-3.2	1/18/13	HL-30.21	4/17/20	TC-41.50	10/18/13		
BP-2.5	7/19/24	MGS-4.2	7/19/13	HL-30.31	7/19/24	TC-42.10	10/18/13		
BP-3.1	1/19/24	MGS-5.3	7/15/16	HL-40.10	7/19/24	TC-42.20	10/18/13		
BP-6.1	7/19/13	MGS-6.1	1/19/18			TC-51.11	1/15/16		
				MT-95.30	7/19/19	TC-52.10	10/18/13		
CB-1	7/19/24	RM-4.2	4/17/20	MT-95.31	7/19/19	TC-52.20	1/15/21		
CB-2-2A, 2B, 2C	7/19/24	RM-4.3	1/21/22	MT-96.11	7/21/23	TC-65.10	1/17/14		
CB-3	7/19/24	RM-4.4	7/19/24	MT-96.20	7/21/23	TC-72.20	7/21/23		
CB-3A	7/19/24			MT-96.26	1/18/19	TC-82.10	7/19/19		
		A-1-20	1/21/22	MT-99.20	4/19/19				
DM-1.1	7/17/20	EXJ-4-87	1/19/24						
DM-4.4	1/15/16	RB-1-55	7/19/24	TC-18.24	1/19/24				
				TC-22.20	1/17/14				

SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
800-2023	7/19/24	WATERWAY PERMIT 1/23/14
832	7/19/24	

TITLE SHEET

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER: OSU
REVIEWER: CFG 01/17/25
PROJECT ID: 130205
SHEET: P.1 TOTAL: 267

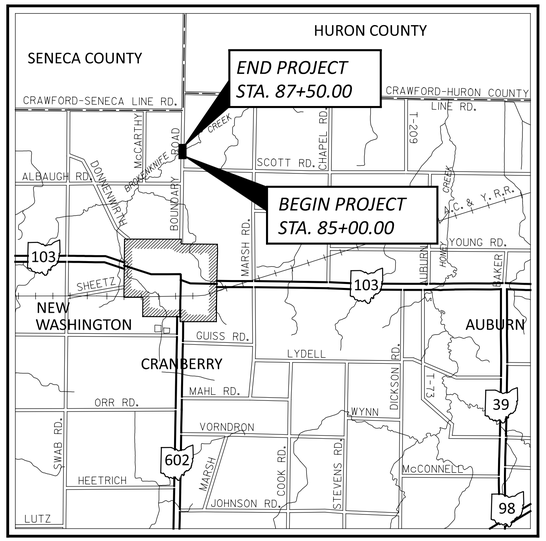
ERI-2-30.51 AND VARIOUS / LOR-2-0.00 AND VARIOUS

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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
CRA-C.R. 6-1.61
(BOUNDARY RD.) PART 1

CRANBERRY TOWNSHIP
CRAWFORD COUNTY

FOR PART 2, SEE CRA-C.R. 31 (SCOTT RD.)



LOCATION MAP

LATITUDE: 40°59'10" LONGITUDE: 82°51'10"

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

DESIGN DESIGNATION

CURRENT ADT (2013)	*1500*
DESIGN YEAR ADT (2033)	*2020*
DESIGN HOURLY VOLUME (2033)	*16*
DIRECTIONAL DISTRIBUTION	*50%*
TRUCKS (24 HOUR B&C)	*5%*
DESIGN SPEED	*55 MPH*
LEGAL SPEED	*55 MPH*
DESIGN FUNCTIONAL CLASSIFICATION:	
05 MAJOR COLLECTOR (RURAL)	
NHS PROJECT	*NO*

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JOHN J. DOE & ASSOC., INC.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

ENGINEER'S SEAL
FOR DESIGN CHANGES NOTED ON SHEET P.4
STATE OF OHIO — JOHN J. DOE E-000000 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S SEAL
FOR ENTIRE PLANS EXCEPT STRUCTURES 20' & OVER
STATE OF OHIO — JANE M. SMITH E-000000 — REGISTERED PROFESSIONAL ENGINEER

INDEX OF SHEETS:

TITLE SHEET	*P.1*
SCHEMATIC PLAN	*P.2*
TYPICAL SECTIONS	*P.3-P.4*
GENERAL NOTES	*P.5*
MAINTENANCE OF TRAFFIC NOTES	*P.6*
DETOUR PLAN	*P.7*
MAINTENANCE OF TRAFFIC	*P.8-P.9*
GENERAL SUMMARY AND CALCULATIONS	*P.10*
PROJECT SITE PLAN	*P.11*
PLAN AND PROFILE	*P.12-P.13*
CROSS SECTIONS	*P.14-P.17*
PREFABRICATED STRUCTURES	*P.18-P.21*
SOIL PROFILES	*P.22-P.27*
RIGHT OF WAY	

FEDERAL PROJECT NUMBER

E017 (212)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

IMPROVEMENT OF 0.04 MILE OF C.R. 6 (BOUNDARY ROAD) BY REPLACEMENT OF AN EXISTING STEEL TRUSS STRUCTURE OVER BROKEN KNIFE CREEK WITH A PRECAST PRESTRESSED BOX BEAM TYPE STRUCTURE INCLUDING APPROACH RECONSTRUCTION.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*1.7 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*0.8 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*2.5 ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 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 THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.7.

Johnathon E. Smith
Johnathon E. Smith
District 03 Deputy Director

Jane D. Director
Jane D. Director
Director, Department of Transportation

PARTS 1 AND 2

STANDARD CONSTRUCTION DRAWINGS							***SUPPLEMENTAL SPECIFICATIONS***		***SPECIAL PROVISIONS***
BP-3.1	*1/21/22*	*HW-2.1*	*7/20/18*				*800-2023*	*7/16/24*	*WATERWAY PERMIT 01/23/18*
		HW-2.2	*7/20/18*				*832*	*7/19/24*	
CB-1	*7/16/21*	*TST-1-99*	*1/15/21*						
CB-2-2A, 2B, 2C	*7/15/22*								
		MT-105.10	*1/17/20*						
DM-1.1	*7/17/20*	*MT-110.10*	*7/19/13*						
DM-4.4	*1/15/16*								
		TC-41.20	*10/18/13*						
MGS-1.1	*7/16/21*	*TC-41.40*	*10/18/13*						
MGS-2.1	*1/19/18*	*TC-52.10*	*10/18/13*						
MGS-4.2	*7/19/13*	*TC-52.20*	*1/15/21*						
MGS-5.3	*7/15/16*								
RM-1.1	*1/15/21*								
AS-2-15	*1/18/19*								

TITLE SHEET

CRA-C.R. 6-1.61 (BOUNDARY RD.) PART 1

MODEL: SP1302-6a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

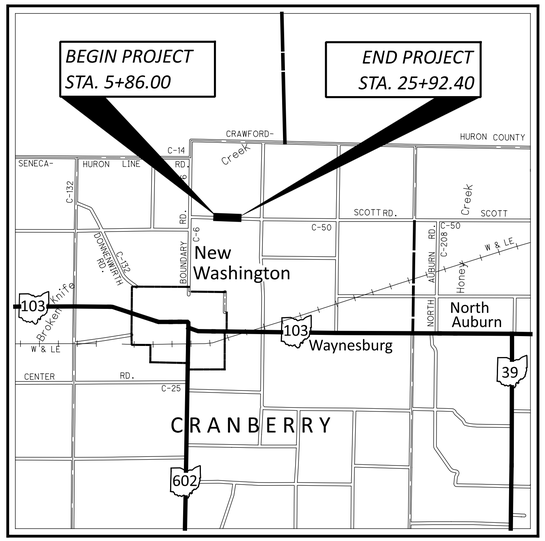
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REVIEWER HAO 01/17/25
PROJECT ID 130206
SHEET P.1 TOTAL 27

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
CRA-C.R. 31
(SCOTT RD.) PART 2

CRANBERRY TOWNSHIP

CRAWFORD COUNTY

FOR PART 1, SEE CRA-C.R.6-1.61 (BOUNDARY ROAD)



LOCATION MAP

LATITUDE: 40°58'50" LONGITUDE: 82°50'40"

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

DESIGN DESIGNATION

CURRENT ADT (2013)	*2300*
DESIGN YEAR ADT (2033)	*3150*
DESIGN HOURLY VOLUME (2033)	*315*
DIRECTIONAL DISTRIBUTION	*55%*
TRUCKS (24 HOUR B&C)	*3%*
DESIGN SPEED	*55 MPH*
LEGAL SPEED	*55 MPH*
DESIGN FUNCTIONAL CLASSIFICATION:	
07 LOCAL ROAD (RURAL)	
NHS PROJECT	*NO*

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JANE C. SMITH CONSULTING, INC.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

ENGINEER'S SEAL

STATE OF OHIO
JOHN J. DOE
E-000000
REGISTERED
PROFESSIONAL ENGINEER

INDEX OF SHEETS:

TITLE SHEET	*P.1*
SCHEMATIC PLAN	*P.2*
TYPICAL SECTIONS	*P.3*
GENERAL NOTES	*P.4*
DETOUR PLAN	*P.5*
MAINTENANCE OF TRAFFIC	*P.6-P.8*
GENERAL SUMMARY	*P.9*
CALCULATIONS & SUBSUMMARIES	*P.10*
PROJECT SITE PLAN	*P.11*
PLAN & PROFILE	*P.12-P.17*
CROSS SECTIONS	*P.18-P.25*
TRAFFIC CONTROL	*P.26*
SOIL PROFILES	*P.27-P.35*
RIGHT OF WAY	

STANDARD CONSTRUCTION DRAWINGS	*SUPPLEMENTAL SPECIFICATIONS*	*SPECIAL PROVISIONS*
SEE PART 1	*SEE PART 1*	*SEE PART 1*

FEDERAL PROJECT NUMBER

E025 (319)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

IMPROVEMENT OF 0.38 MILE OF C.R. 31 (SCOTT RD.) BY RECONSTRUCTION OF EXISTING VERTICAL ALIGNMENT TO ELIMINATE HAZARDOUS VERTICAL CURVES INCLUDING UPGRADING OF GUARDRAIL, DRAINAGE SIGNING AND PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*3.5 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*0.9 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*4.4 ACRES*

LIMITED ACCESS

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2023 SPECIFICATIONS

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I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.6.

Johnathon E. Smith
Johnathon E. Smith
District 03 Deputy Director

Jane D. Director
Jane D. Director
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER: MGY
REVIEWER: HAO 01/17/25
PROJECT ID: 130206
SHEET: P.1 TOTAL: 35

CRA-C.R. 31 (SCOTT RD.) PART 2

MODEL: SP1302-6b PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1302-7
DATE: JANUARY 2025

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DEL-257-8.37
MAR-257-0.00

VILLAGE OF PROSPECT
CONCORD AND SCIOTO TOWNSHIPS
THOMPSON AND PROSPECT TOWNSHIPS
DELAWARE AND MARION COUNTIES

FOR LOCATION MAP
SEE SHEET 6

LOCATION MAP

LATITUDE: 40°20'20" LONGITUDE: 83°10'45"

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

DESIGN DESIGNATION

	DEL-257-8.37	MAR-257-0.00
CURRENT ADT (2019)	*1,762*	*813*
DESIGN YEAR ADT (2039)	*1,869*	*862*
DESIGN HOURLY VOLUME (2039)	*78*	*36*
DIRECTIONAL DISTRIBUTION	*50%*	*50%*
TRUCKS (24 HOUR B&C)	*4%*	*9%*
DESIGN SPEED	*60*	*60*
LEGAL SPEED	*55*	*35/55*

DESIGN FUNCTIONAL CLASSIFICATION:
DEL-257-8.37: 05 MAJOR COLLECTOR (RURAL)
MAR-257-0.00: 06 MINOR COLLECTOR (RURAL)
NHS PROJECT — *NO*

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
JOHN J. DOE CONSULTING, INC.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

INDEX OF SHEETS:

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PLAN SUBSUMMARY	*P.9*
PAVEMENT MARKING SUBSUMMARY	*P.10*
RPM SUBSUMMARY	*P.11*

FEDERAL PROJECT NUMBER

NONE

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

SPOT PAVEMENT REPAIRS ON S.R. 257 IN DELAWARE COUNTY BETWEEN SLM 8.37 (U.S. 42/S.R. 745) AND SLM 14.28 (S.R. 37).

8' WIDE, CONTINUOUS, SLOT PAVING ON OUTSIDE EDGE OF S.R. 257, BEGINNING AT SLM 14.26 (S.R. 37) IN DELAWARE COUNTY AND ENDING AT S.R. 47 IN MARION COUNTY (SLM. 66).

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: *4.0 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: *0.1 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA: *N/A (NOI NOT REQUIRED)**
** ROUTINE MAINTENANCE PROJECT*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Johnathon E. Smith
Johnathon E. Smith
District 06 Deputy Director

Jane D. Director
Jane D. Director
Director, Department of Transportation

ENGINEER'S SEAL

STATE OF OHIO
JOHN J. DOE
E-000000
REGISTERED
PROFESSIONAL ENGINEER

STANDARD CONSTRUCTION DRAWINGS						*SUPPLEMENTAL SPECIFICATIONS*		*SPECIAL PROVISIONS*
BP-3.1	*1/19/24*					*800-2023*	*7/19/24*	
						821	*4/20/12*	
MT-97.11	*1/20/17*					*832*	*7/19/24*	
MT-97.12	*1/20/17*							
MT-99.20	*4/19/19*							
MT-105.10	*1/17/20*							
TC-41.20	*10/18/13*							
TC-42.20	*10/18/13*							
TC-52.10	*10/18/13*							
TC-52.20	*1/15/21*							
TC-65.10	*1/17/14*							
TC-65.11	*1/19/24*							
TC-71.10	*4/21/23*							
TC-82.10	*7/19/19*							

TITLE SHEET

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER: LPR
REVIEWER: LNN 01/17/25
PROJECT ID: 130207
SHEET: P.1 TOTAL: 11

DEL-257-8.37 / MAR-257-0.00

MODEL: SP1302-7 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1302-7.dgn

SP 1303-1
DATE: JANUARY 2025

NOTE: REFER TO THE SURVEYING PARAMETERS NOTE IN THE GENERAL NOTES FOR PROJECT CONTROL INFORMATION.

HORIZONTAL SCALE IN FEET
0 25 50 100

SCHEMATIC PLAN

BEGIN WORK STA. 361+80.00

ROSE LANE

361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376

S46°25'45"E

TS STA. 363+83.10

BEGIN PROJECT STA. 365+50.00 S.L.M. = 14.36

E014 (273)

SC STA. 367+33.10

CS STA. 367+58.10

2 Sty. Res.

2 Sty. Com.

1 Sty. Commercial

ST STA. 371+08.10

END PROJECT STA. 372+32.00 S.L.M. = 14.49

E014 (273)

END WORK STA. 373+50.00

S76°25'45"E

℄ Construction S.R. 144

2 Sty. Res.

1 Sty. Commercial

10 9 8 7 6 5

N06°49'15"E

Gas Pumps

PT STA. 8+14.44

1 Sty. Commercial

1 Sty. Commercial

1 Sty. Res.

1 Sty. Com.

℄ Construction S.R. 146

1 Sty. Res.

PC STA. 6+54.57

+00

BEGIN WORK STA. 5+07.00

N04°25'22"E

CURVE DATA
P.I. Sta.= 367+51.56 ℄ Constr. S.R. 144
Δ = 30°00'00" (LT)
D_C = 8°00'00"
R = 716.20'
L_S = 350.00'
θ_S = 14°00'00"
LT = 234.07'
ST = 117.33'
x = 347.92'
y = 28.39'
k = 174.65'
p = 7.11'
Δ_C = 2°00'00" (LT)
L_C = 25.00'
T_S = 368.46'
E_S = 32.63'
e_{max} = 0.08

CURVE DATA
P.I. Sta. 7+34.52= ℄ Constr. S.R. 146
Δ = 2°23'53" (RT)
D_C = 1°30'00"
R = 3819.72'
T = 79.95'
L = 159.87'
E = 0.84'
e_{max} = NC (NDC 0.025)

STA. 369+60.00, ℄ S.R. 144 =
STA. 10+00.00, ℄ S.R. 146

℄ Construction S.R. 144

RR Spike

369 370

STA. 9+95.15 S.R. 146

Tangent From ST STA. 371+08.10

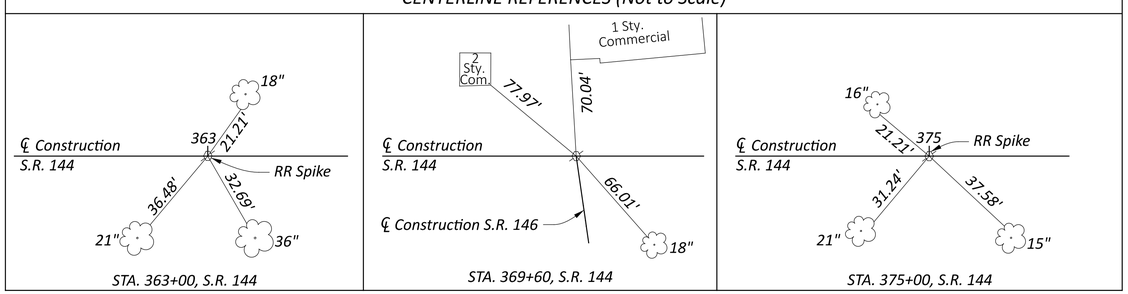
95°45'00"

83°15'00"

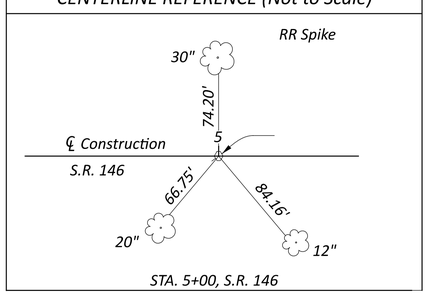
℄ Construction S.R. 146

NOTE: There are no existing landscaped areas within the work limits.

CENTERLINE REFERENCES (Not to Scale)



CENTERLINE REFERENCE (Not to Scale)



COS-144-14.36

MODEL: SP1303-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1303-1.dgn

DESIGN AGENCY

DESIGNER LUK
REVIEWER BKL 01/17/25
PROJECT ID 130301
SHEET P.2 TOTAL 72

SP 1303-2
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN & DESIGN DESIGNATIONS

Begin Work
Sta. 694+33

Begin Project
Sta. 694+48
S.L.M. = 26.15

E078 (316)

MAIN ST. - S.R. 39

S 53° 04' 44" E

Sta. 694+33 S.R. 43 =
Sta. 100+00 S.R. 39

Sta. 698+74.38 ℄ S.R. 43 =
Sta. 10+00.00 ℄ 2nd St. N.W.

℄ Construction S.R. 43

N 9° 48' 36" E

N 9° 13' 16" E

15" Conc.

PI Sta. 702+00.00

End Work
Sta. 11+00

℄ Construction
2nd St. N.W.
S 52° 51' 29" E

CURVE DATA
P.I. STA. = 702+00.00 ℄ CONSTR. S.R. 43
Δ = 0° 35' 20" (LT.)
NO CURVE

CURVE DATA
P.I. STA.= 707+01.08 ℄ CONSTR. S.R. 43
Δ = 3° 33' 00" (LT.)
D_C = 1° 00' 00"
R = 5,729.58'
T = 177.56'
L = 355.00'
E = 2.75'
e_{max} = NC

PC Sta. 705+23.52

Sta. 707+44.34 ℄ S.R. 43 =
Sta. 10+00.00 ℄ 5th St. N.W.

P.T. Sta. 708+78.52

End Work
Sta. 10+88

Sta. 709+38.16 ℄ S.R. 43 =
Sta. 10+00.00 ℄ Crest St.

℄ Construction
5th St. N.W.
S 63° 32' 39" E

℄ Construction,
CREST ST.
N 84° 20' 44" W

END WORK
STA. 10+85

Sta. 710+86.41 ℄ S.R. 43 =
Sta. 10+00.00 ℄ 6th St. N.W.

VILLAGE OF TYLERSVILLE

Sta. 717+57.35 ℄ S.R. 43 =
Sta. 10+00.00 ℄ 8th St. N.W.

21" Storm Outfall

MATCH LINE STA. 721+50

N 5° 40' 16" E

End Work
Sta.. 10+82

VILLAGE OF TYLERSVILLE

End Work
Sta. 10+80

8th St. N.W.
℄ Construction,
S 83° 48' 44" E

℄ Construction
6th St. N.W.
S 63° 28' 44" E

The coordinate values expressed herein are assumed and tied to project specific control monuments with no scale factor applied. They are ground values in English units.

N

DESIGN DESIGNATIONS

S.R. 43	
CURRENT ADT (2005)	11,120
DESIGN YEAR ADT (2025)	18,525
DESIGN HOURLY VOLUME (2025)	2,574
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	4%
T_d	5%
DESIGN SPEED	35 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION - URBAN ARTERIAL	
NHS Project	No
DESIGN EXCEPTIONS - NONE REQUIRED	

RELOCATED TRUMP RD.	
CURRENT ADT (2005)	1,420
DESIGN YEAR ADT (2025)	1,990
DESIGN HOURLY VOLUME (2025)	199
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	4%
DESIGN SPEED	25 MPH
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION: URBAN LOCAL	
NHS Project	No
DESIGN EXCEPTIONS - NONE REQUIRED	

CURVE DATA
P.I. STA.= 744+49.29, ℄ CONSTR. S.R. 43
Δ = 25° 35' 20" (LT.)
D_C= 4° 00' 22"
R = 1,430.25'
T = 324.80'
L = 638.76'
E = 36.42'
e_{max}= NC (NDC 0.040)

100% VILLAGE

E078 (316)

STA. 49+00

℄ Construction
Relocated to Trump Rd.

CURVE DATA
P.I. STA.= 46+17.51 ℄ Constr. Trump Rd.
Δ = 89°23' 07" (LT.)
D_C= 24° 54' 40"
R = 230.00'
T = 227.55'
L = 358.82'
E = 93.54'
e_{max} = 0.025

10'-0"x8'-0"
Type A

P.T. Sta. 42+55.74

PC Sta. 40+51.80

40

℄ R/W, Ex. Trump Rd.

RELOCATED TRUMP RD.

45

S 04° 43' 43" W

DITCH

P.C. Sta. 43+89.96

P.T. Sta. 47+48.78

CURVE DATA
PI STA. 41+61.02, ℄ Constr. Trump Rd.
Δ = 50° 48' 16" RT.
D_C = 24° 54' 40"
R = 230.00'
T = 109.22'
L = 203.94'
E = 24.62'
e_{max}= 0.078

VILLAGE OF TYLERSVILLE

PT Sta. 747+63.26

120" CMP

Corporation Line
Meets ℄ SR 43@
Sta. 747+63.26

N 21° 00' 04" W

End Work
Sta. 756+92

750

745

OLD TRUMP RD.

S 84° 39' 24" E

CENTER TOWNSHIP
SEC3-T15N-R6W

N 4° 43' 43" E
SEC33-T14N-R5W

CORPORATION LINE

Begin Work
Sta. 38+50

S 46° 04' 33" E

CURVE DATA
P.I. STA. 727+61.39 ℄ CONSTR. S.R. 43
Δ = 1° 05' 00" (LT.)
D_C = 0° 29' 33"
R = 11,635.10'
T = 110.00'
L = 219.99'
E = 0.52'
e_{max} = NC

℄ Construction
S 84° 50' 54" E

Longhorn St.

End Work
Sta. 9+27.00

PC Sta. 726+51.39

CREEK

PT Sta. 728+71.38

27" Storm Outfall

Sta. 728+78.83 ℄ S.R. 43 =
Sta. 10+00.00 ℄ 10th St. N.W.

Sta. 732+78.31 ℄ S.R. 43 =
Sta. 10+00.00 ℄ 11th St. N.W.

℄ Construction, S.R. 43

VILLAGE OF TYLERSVILLE

P.C. Sta. 741+24.49

MATCH LINE STA. 721+50

N 5° 40' 16" E

Sta. 722+70.64 ℄ S.R. 43 =
Sta. 10+00.00 ℄ Longhorn St.

Str. No. MIA-43-2677

MANNING

10'-0"x8'-0"
Conc. Box

10th ST., N.W.
℄ Construction
S 84° 52' 04" E

End Work
Sta. 10+83

11th St. N.W.
℄ Construction
N 88° 26' 23" E

End Work
Sta. 10+75

N 4° 35' 16" E

Sta. 742+05.74 ℄ S.R. 43 =
Sta. 50+00.00 ℄ Relocated Trump Rd.
Sta. 10+00.00 ℄ 12th St. N.W.

VILLAGE OF TYLERSVILLE

End Work
Sta. 10+55

12th St. N.W.
℄ Construction
S 84° 46' 04" E

Sta. 743+71.09

End Project
Sta. 744+50
S.L.M. = 27.10

E078 (316)

NOTE: There are no existing landscaped areas within the work limit.

725 730 735 740

MIA-43-26.15

MODEL: SP1303-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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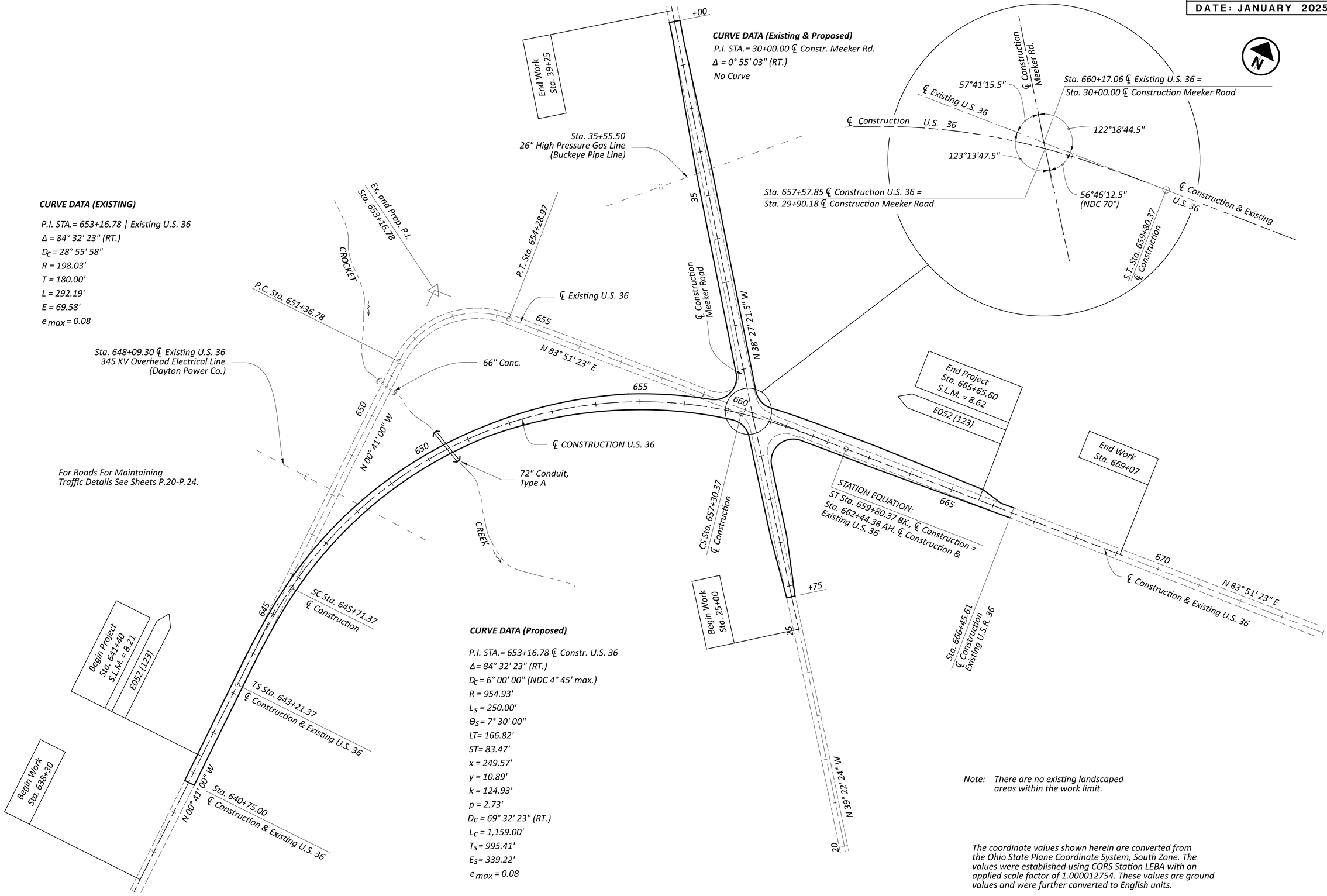
DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER DLZ
REVIEWER FDY 01/17/25
PROJECT ID 130302
SHEET P.2 TOTAL 105

SP 1303-3
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN



CURVE DATA (Proposed)

P.I. STA.= 653+16.78 ℄ Constr. U.S. 36
Δ = 84° 32' 23" (RT.)
D_C = 6° 00' 00" (NDC 4° 45' max.)
R = 954.93'
L_S = 250.00'
Θ_S = 7° 30' 00"
LT= 166.82'
ST= 83.47'
x = 249.57'
y = 10.89'
k = 124.93'
p = 2.73'
D_C = 69° 32' 23" (RT.)
L_C = 1,159.00'
T_S= 995.41'
E_S= 339.22'
e_{max} = 0.08

Note: There are no existing landscaped areas within the work limit.

The coordinate values shown herein are converted from the Ohio State Plane Coordinate System, South Zone. The values were established using CORS Station LEBA with an applied scale factor of 1.000012754. These values are ground values and were further converted to English units.

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER UNI
REVIEWER AKR 01/17/25
PROJECT ID 130303
SHEET P.2 TOTAL 95

HAS-36-8.21

MODEL: SP1303-3 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1303-3.dgn

SP 1303-4(a)
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 250 500 1000

SCHEMATIC PLAN & DESIGN DESIGNATION

CITY OF VICTORY

NORFOLK & SOUTHERN R.R

CORPORATION LINE

EDSON

KNEISEL ROAD

S.R. 59

VICTORY TWP.

CURVE DATA
P.I. Sta. 1792+05.70, ℄ Constr. S.R. 21
Δ = 35° 19' 21" (LT)
D_C = 1° 28' 00"
R = 3,906.53'
T = 1,234.82'
L = 2,408.35'
E = 193.23'
e_{max} = 0.037

CURVE DATA
P.I. Sta. 26+02.47, ℄ Constr. Victory Road
Δ = 39° 03' 54" RT
D_C = 4° 04' 06"
R = 1408.30'
T = 499.61'
L = 960.20'
E = 85.99'
e_{max} = NC (NDC 0.057)

SUMMIT CO. — PORTAGE CO.

CS Sta. 1820+22.18
ST Sta 1823+22.18

Begin Project
Sta. 1835+10.00
S.L.M. 34.76

E085 (118)

Suspend Project
Sta. 14+60.00
S.L.M. 0.28

Structure No.
POR-21-0030

Structure No.
SUM-21-3011 L&R

PT Sta. 1803+70.23

CORPORATION LINE
MEETS ℄ S.R. 21 @
STA. 1837+14.48

N 84° 15' 48" E

Ex. 18" Conc
Sta. 15+99.40 ℄ S.R. 40 =
Sta. 25+00.00 ℄ W. River Rd.

Station Equation:
Sta. 1838.29 Bk=
Sta. 0+00.00 AH

CREEK

SC Sta. 1808+53.56
TS Sta. 1805+53.56

PC Sta. 1779+61.88

N 54° 53' 27" E

N 89° 47' 12" E

Begin Work
Sta. 1810+00

(No Work)
Structure No.
SUM-21-2956 L&R

1760 1770 1780 1790 1800 1810 1820 1830

BROWNHELM ROAD

CORP. LINE

VICTORY

WEST RIVER

End Work
Sta. 30+25

REST AREA

RAMP "Q"
RAMP "R"
RAMP "S"
RAMP "T"
RAMP "U"
RAMP "V"

10 20 30 40 50 60

S.R. 21
℄ Construction,

STA 25+00 RELOCATED,
VERMILION ROAD =
STA 56+39.39, S.R. 21

S 56° 22' 08" E

Resume Project
Sta. 51+03.25
S.L.M. 0.97

End Work
Sta. 311+43.63

CORP. LINE
MEETS ℄ @
STA. 1837+14.48

S 5° 26' 02" W

PC Sta. 59+38.68

STRUCTURE No.
POR-21-0097 L&R

STRUCTURE No.
POR-21-0107

ROAD
S 81° 08' 58" E

Begin Work
Sta. 19+75

Begin Work
Sta. 18+09.42

CORP. LINE

MATCH LINE STA 65+00, S.R. 21

CURVE DATA
P.I. Sta. 1814+54.72, ℄ Constr. S.R. 21
Δ = 29° 22' 21" (RT)
D_C = 2° 00' 00"
L_S = 300.00'
L_S = 300.00'
Θ_S = 3° 00' 00"
LT = 200.03'
ST = 100.03'
x = 299.22'
y = 5.23'
k = 149.99'
p = 1.31'
D_C = 23° 22' 21" (RT)
L_C = 1,168.62'
Ts = 901.15'
Es = 98.11'
e_{max} = 0.045

DESIGN DESIGNATION (S.R. 21)
(S.R. 59 TO INTERCHANGE RD.)

CURRENT ADT (2005)	14,410
DESIGN YEAR ADT (2025)	21,620
DESIGN HOURLY VOLUME (2025)	2,162
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	22%
T_d	20%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION: URBAN FREEWAY/EXPRESSWAY	
NHS Project	No

CURVE DATA
P.I. Sta. 66+35.86 ℄ Constr. S.R. 21
Δ = 6° 30' 00" (RT.)
D_C = 0° 28' 00"
R = 12,277.67'
T = 697.18'
L = 1392.86'
E = 19.78'
e_{max} = NC

CITY OF VICTORY

RIVER ROAD

DARROW ROAD

VICTORY TWP. — BROWNHELM TWP.

BROWNHELM TWP.

The coordinate values shown herein are converted from the Ohio State Plane Coordinate System, South Zone. The values were established using CORS Station LEBA with an applied scale factor of 1.000012754. These values are ground values and were further converted to English units.

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NOS.
HORIZONTAL CLEARANCE	1-03-05	P.231 & P.237
GRADED SHOULDER WIDTH	5-09-05	P.5

SUM/POR-21-30.51/0.00 AND VARIOUS

MODEL: SP1303-4a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1303-4a.dgn

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER PCW
REVIEWER MFD 01/17/25
PROJECT ID 130304
SHEET P.2 TOTAL 267

SP 1303-4(b)
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 250 500 1000

SCHEMATIC PLAN & DESIGN DESIGNATION

CITY OF VICTORY

CONRAIL R.R.

BENISH HILL DR.

BROWNHELM ROAD

VICTORY LINNEN CORP. LINE

CURVE DATA
P.I. Sta. 150+59.03, ℄ Constr. S.R. 21
Δ = 2° 01' 10" LT
D_C = 0° 15' 00"
R = 22,918.31'
T = 403.93'
L = 807.78'
E = 3.56'
e_{max} = NC

The coordinate values shown herein are converted from the Ohio State Plane Coordinate System, South Zone. The values were established using CORS Station LEBA with an applied scale factor of 1.000012754. These values are ground values and were further converted to English units.

MATCH LINE STA 65+00 S.R. 21

Resume Project Sta. 98+00 S.L.M. 1.86

Suspend Project Sta. 90+23 S.L.M. 1.71

Suspend Project Sta. 99+82 S.L.M. 1.89

Resume Project Sta. 114+82 S.L.M. 2.18

Suspend Project Sta. 126+16 S.L.M. 2.39

KNAUS RD.

ROAD

End Work Sta. 28+14.06

End Work Sta. 30+80.88

End Work Sta. 32+65.46

Sta. 25+00, VICTORY INTERCHANGE ROAD = Sta. 80+00, S.R. 21

Sta. 25+00.00, SUNNYSIDE RD = Sta. 117+71.69, S.R. 21

Structure No. POR-21-0262

PC Sta. 146+55.10

PT Sta. 154+62.88

Resume Project Sta. 174+73 S.L.M. 3.31

Suspend Project Sta. 177+60.21 S.L.M. 3.36

End Work Sta. 220+33

CITY OF LINNEN

Structure No. POR-21-0333 L&R

CORP. LINE

Sta. 185+05.96 BK = Sta. 185+00.00 AH

RAMP "G"

70 RAMP "Z" 80 RAMP "W" 90 100 110 120 130 140 150 160 170 180 190 200 220

RAMP "X" RAMP "Y"

Ex. 24" Concrete

S 89° 14' 12" E

℄ Construction, S.R. 21

Ex. 36" Concrete

N 88° 44' 38" E

RAMP "H"

Sta. 207+77.56, BAUMHART RD. = Sta. 176+55.96, S.R. 21

CORPORATION LINE MEETS ℄ @ Sta. 175+14.33

PARK

End Work Sta. 216+80

Structure No. POR-21-0151

PT Sta. 73+31.54

Begin Work Sta. 21+43.14

JERUSALEM ROAD

Structure No. POR-21-0223

Begin Work Sta. 19+28.77

Begin Work Sta. 20+13.78

CLAUS

Sta. 25+00, CLAUS RD. = Sta. 138+67, S.R. 21

Begin Work Sta. 193+00

SUNNYSIDE

FOSTER

COOPER

BROWNHELM TWP.

Suspend Project Sta. 167+20 S.L.M. 3.17

Suspend Project Sta. 141+13 S.L.M. 2.67

Resume Project Sta. 153+12 S.L.M. 2.90

Resume Project Sta. 138+92 S.L.M. 2.63

CORP. LINE

BAUMHART

End Project Sta. 181+46 S.L.M. 3.44

E085 (118)

Resume Project Sta. 180+00 S.L.M. 3.41

CITY OF VICTORY

CURVE DATA
P.I. Sta. 66+35.86, ℄ Constr. S.R. 21
Δ = 6° 30' 00" RT
D_C = 0° 28' 00"
R = 12,277.67'
T = 697.18'
L = 1392.86'
E = 19.78'
e_{max} = NC (NDC 0.08)

DESIGN DESIGNATION (S.R. 21) (INTERCHANGE RD. TO BAUMHART RD.):	
CURRENT ADT (2005)	16,520
DESIGN YEAR ADT (2025)	24,815
DESIGN HOURLY VOLUME (2025)	2,482
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	22%
T_d	20%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION - URBAN FREEWAY/EXPRESSWAY	
NHS Project	No

DESIGN EXCEPTIONS:

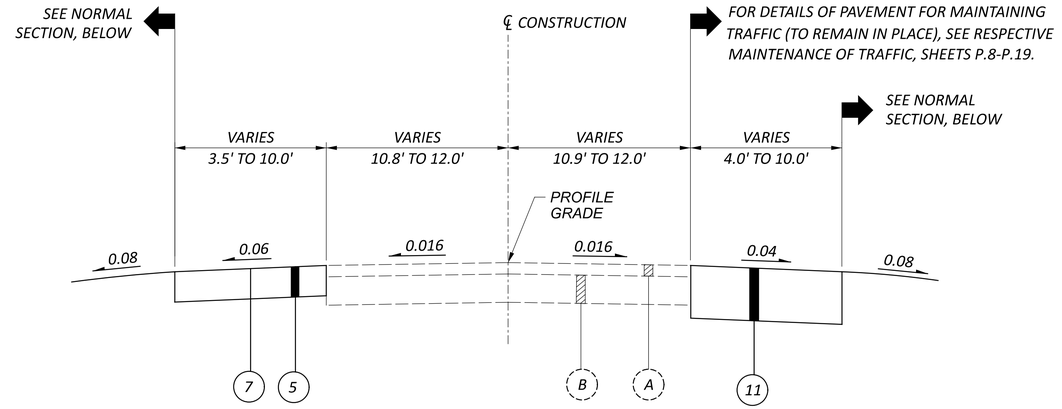
DESIGN FEATURE	APPROVAL DATE	SHEET NOS.
HORIZONTAL CLEARANCE	1-03-05	P.231 & P.237
GRADED SHOULDER WIDTH	5-09-05	P.5

SUM/POR-21-30.51-0.00 AND VARIOUS

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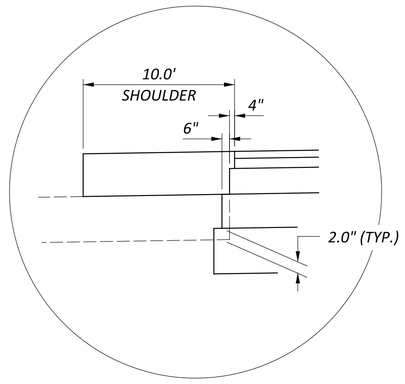
DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER PCW
REVIEWER MFD 01/17/25
PROJECT ID 130304
SHEET P.3 TOTAL 267



NORMAL SECTION - U.S. 46

STA. 634+00.00 TO STA. 635+75.00



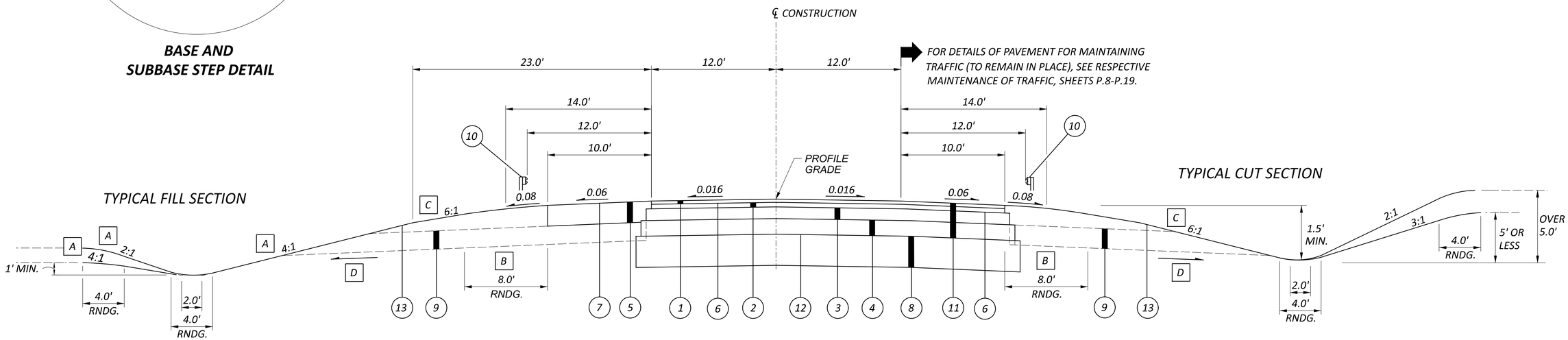
BASE AND SUBBASE STEP DETAIL

- [A] UNLESS OTHERWISE SHOWN ON CROSS SECTIONS
- [B] NO ROUNDING IS REQUIRED WHEN FORESLOPE IS 6:1 OR FLATTER. 4' ROUNDING WHEN GUARDRAIL IS REQUIRED.
- [C] FORESLOPE MAY VARY IN PAVEMENT TRANSITION AREAS AT EXTREME ENDS OF PAVEMENT WORK AND ADJACENT TO STRUCTURE PIC-46-1209; SEE CROSS SECTIONS.
- [D] 0.04 MIN., 0.08 DESIRABLE

LEGEND

1. ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (448)
2. ITEM 442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, Type A (448)
3. ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 304 - 8" AGGREGATE BASE
6. ITEM 407 - TACK COAT
7. ITEM 408 - PRIME COAT (APPLIED AT A RATE OF 0.40 GAL./SQ. YD.)
8. ITEM 206 - LIME STABILIZED SUBGRADE, 16 INCHES DEEP
9. ITEM 605 - AGGREGATE DRAINS
10. ITEM 606 - GUARDRAIL, TYPE MGS
11. ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (SEE RESPECTIVE MAINTENANCE OF TRAFFIC DETAILS)
12. ITEM 204 - SUBGRADE COMPACTION
13. ITEM 659 - SEEDING AND MULCHING
14. ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15")
15. NOT USED
16. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS

- (A) 3"± ASPHALT CONCRETE
- (B) 8"± CONCRETE PAVEMENT



NORMAL SECTION - U.S. 46

STA. 635+75.00 TO STA. 642+81.37
STA. 638+22.44 TO STA. 640+48.86

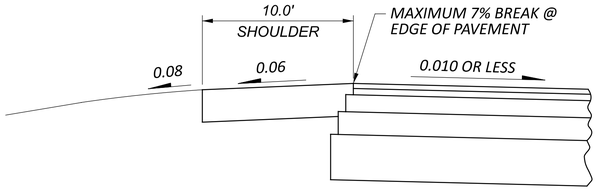
TYPICAL SECTIONS - U.S. 46

DESIGN AGENCY

DESIGNER VTA
REVIEWER AXV 01/17/25
PROJECT ID 130401
SHEET P.3 TOTAL 86

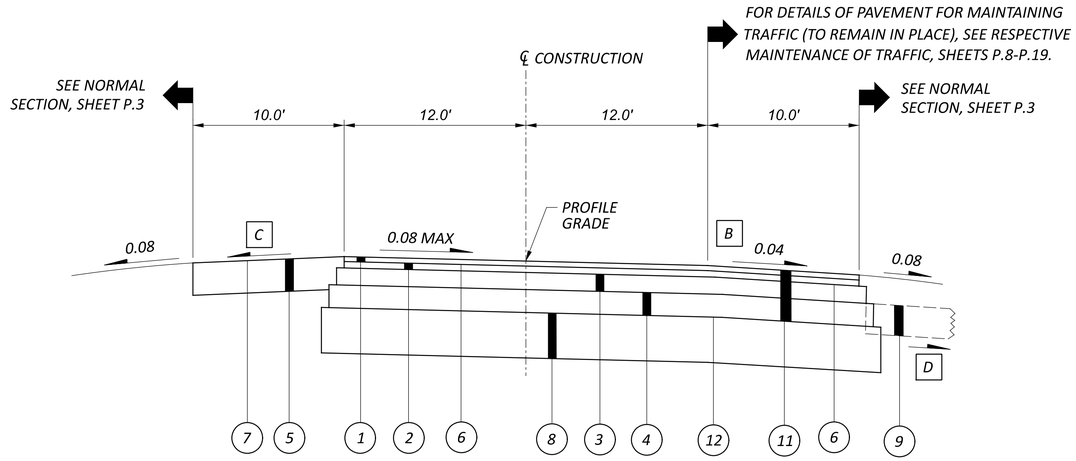
PIC-46-12.01

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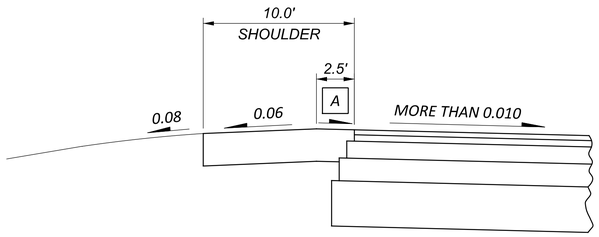
SHOULDER DETAIL

FOR PAVEMENT SLOPES OF 0.010 OR LESS



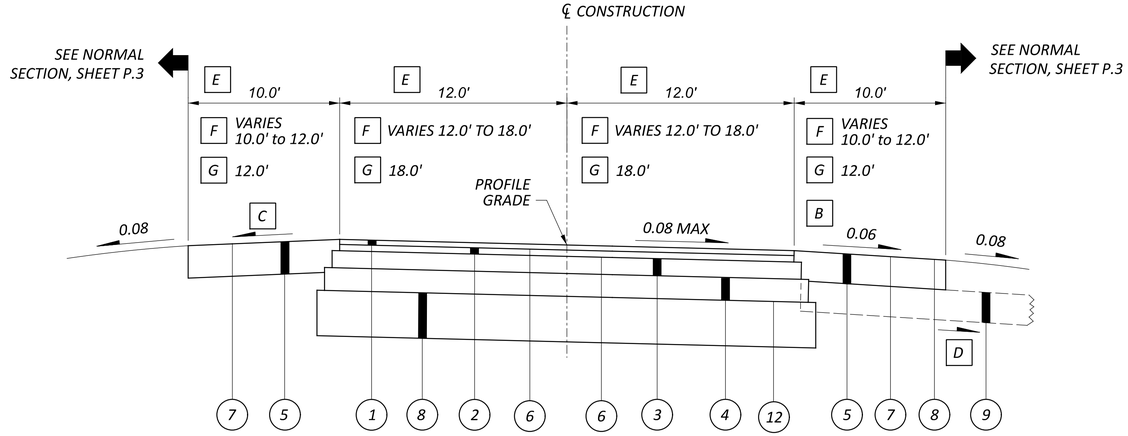
SUPERELEVATED SECTION - U.S. 46

STA. 642+81.37 TO STA. 649+00.00



SHOULDER DETAIL

FOR PAVEMENT SLOPES GREATER THAN 0.010



SUPERELEVATED SECTION - U.S. 46

A *SAME SLOPE AS PAVEMENT*

B *OR PAVEMENT SLOPE WHICHEVER IS GREATER*

C *FOR HIGH SIDE SHOULDER SLOPES ON SUPERELEVATED SECTIONS SEE SHOULDER DETAILS, THIS SHEET.*

D *0.04 MIN., 0.08 DESIRABLE*

E *Sta. 649+00.00 to Sta. 651+45.03*

F *Sta. 651+45.03 to Sta. 654+75.03*

G *Sta. 654+75.03 to Sta. 658+77.85*

STA. 656+57.63 TO STA. 658+77.85, SEE INTERSECTION DETAIL ON SHEET P.39.

SEE INTERSECTION DETAIL, SHEET P.39.

FOR PAVEMENT LEGEND, SEE SHEET P.3.

FOR BASE AND SUBBASE STEP DETAIL, SEE SHEET P.3.

TYPICAL SECTIONS - U.S. 46

DESIGN AGENCY

DESIGNER
VTA

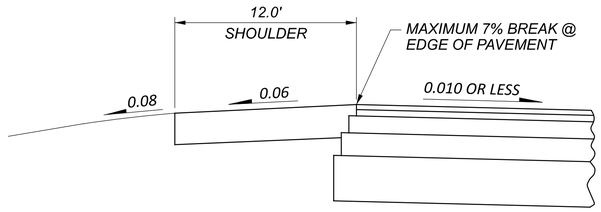
REVIEWER
AXV 01/17/25

PROJECT ID
130401

SHEET P.4 | TOTAL 86

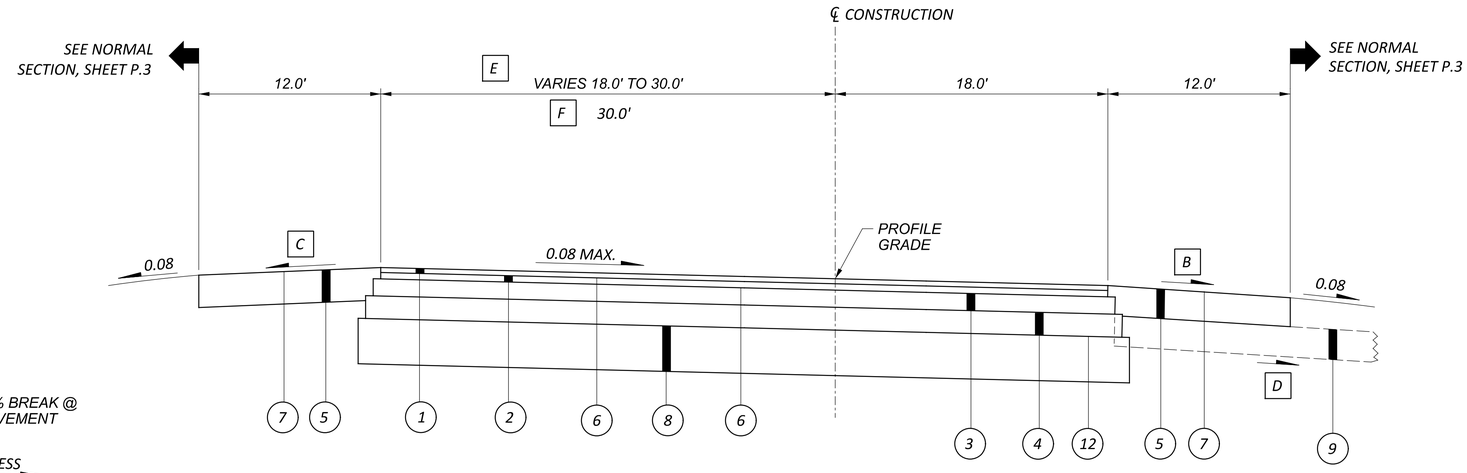
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SHOULDER DETAIL

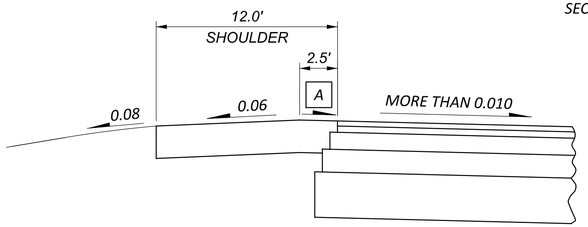
FOR PAVEMENT SLOPES OF 0.010 OR LESS



SUPERELEVATED SECTION - U.S. 46

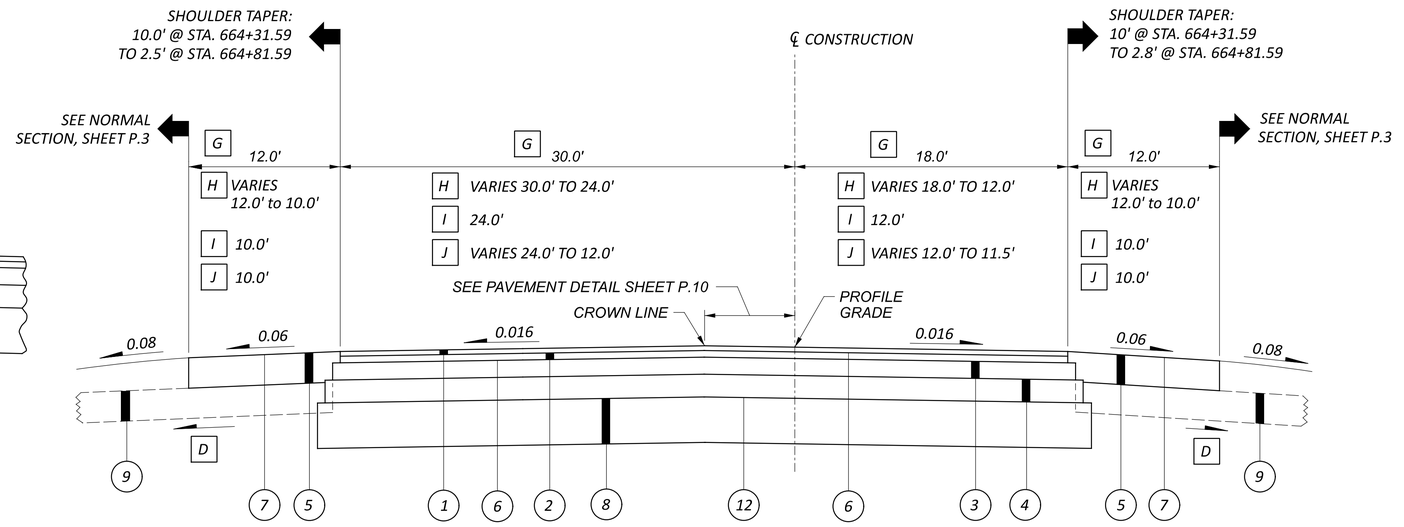
E STA. 658+77.85 TO STA. 659+27.03

F STA. 659+27.03 TO STA. 660+20.37



SHOULDER DETAIL

FOR PAVEMENT SLOPES OF MORE THAN 0.010



NORMAL SECTION - U.S. 46

G STA. 660+20.37 TO STA. 660+51.59

H STA. 660+51.59 TO STA. 663+81.59

I STA. 663+81.59 TO STA. 664+31.59

J STA. 664+31.59 TO STA. 664+81.59

A SAME SLOPE AS PAVEMENT

B 0.06 OR SAME SLOPE AS PAVEMENT WHICHEVER IS GREATER

C FOR HIGH SIDE SHOULDER SLOPES ON SUPERELEVATED SECTIONS SEE SHOULDER DETAILS, THIS SHEET.

D 0.04 MIN., 0.08 DESIRABLE

FOR PAVEMENT LEGEND SEE SHEET P.3.

FOR BASE AND SUBBASE STEP DETAIL SEE SHEET P.3.

TYPICAL SECTIONS - U.S. 46

DESIGN AGENCY

DESIGNER VTA

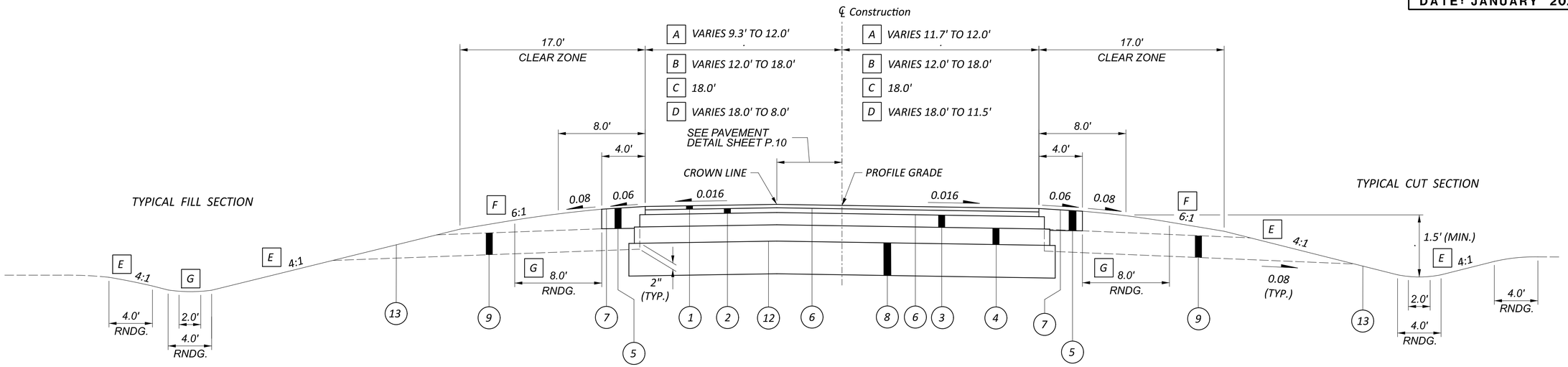
REVIEWER AXV 01/17/25

PROJECT ID 130401

SHEET P.5 TOTAL 86

PIC-46-12.01

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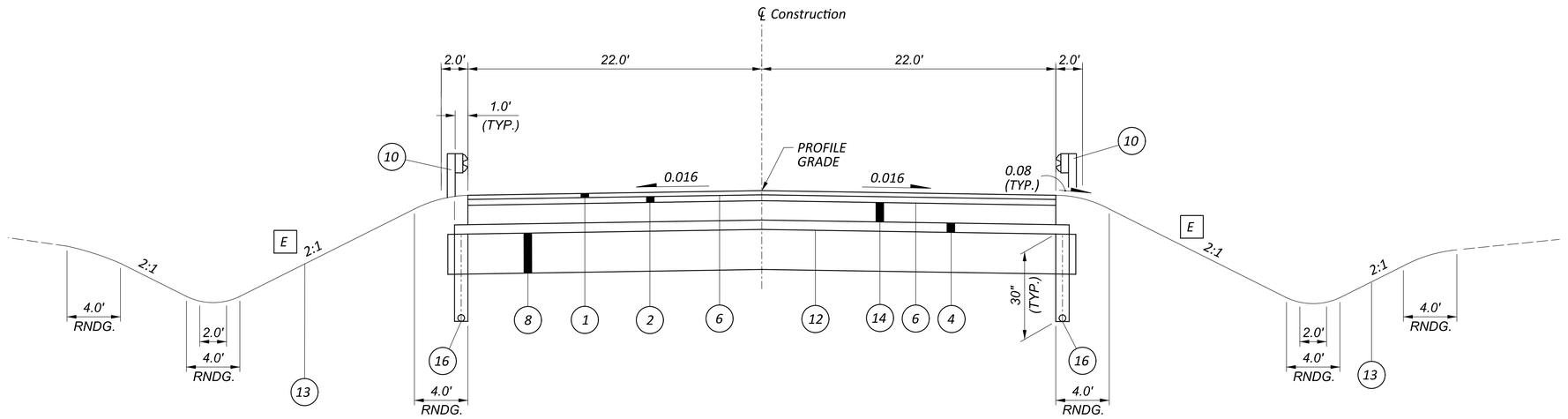
NORMAL SECTION - ARLINGTON ROAD

A STA. 21+00.00 TO STA. 21+37.83

B STA. 21+37.83 TO STA. 24+37.83

C STA. 24+37.83 TO STA. 29+05.61
STA. 31+26.68 TO STA. 31+44.41

D STA. 31+44.41 TO STA. 34+25.00



APPROACH SLAB TYPICAL SECTION - U.S. 46

STRUCTURE PIC-46-1209 = STA. 638+22.44 TO STA. 640+48.86
STA. 638+47.44 TO STA. 640+23.86

E UNLESS OTHERWISE SHOWN ON CROSS SECTIONS

F FORESLOPE MAY VARY IN PAVEMENT TRANSITION AREAS AT EXTREME ENDS OF PAVEMENT WORK; SEE CROSS SECTIONS.

G NO ROUNDING IS REQUIRED WHEN FORESLOPE IS 6:1 OR FLATTER.

FOR PAVEMENT LEGEND SEE SHEET P.3.

FOR BASE AND SUBBASE STEP DETAIL, SEE SHEET P.3.

TYPICAL SECTIONS - U.S. 46 AND ARLINGTON ROAD

DESIGN AGENCY

DESIGNER VTA

REVIEWER AXV 01/17/25

PROJECT ID 130401

SHEET P.6 TOTAL 86

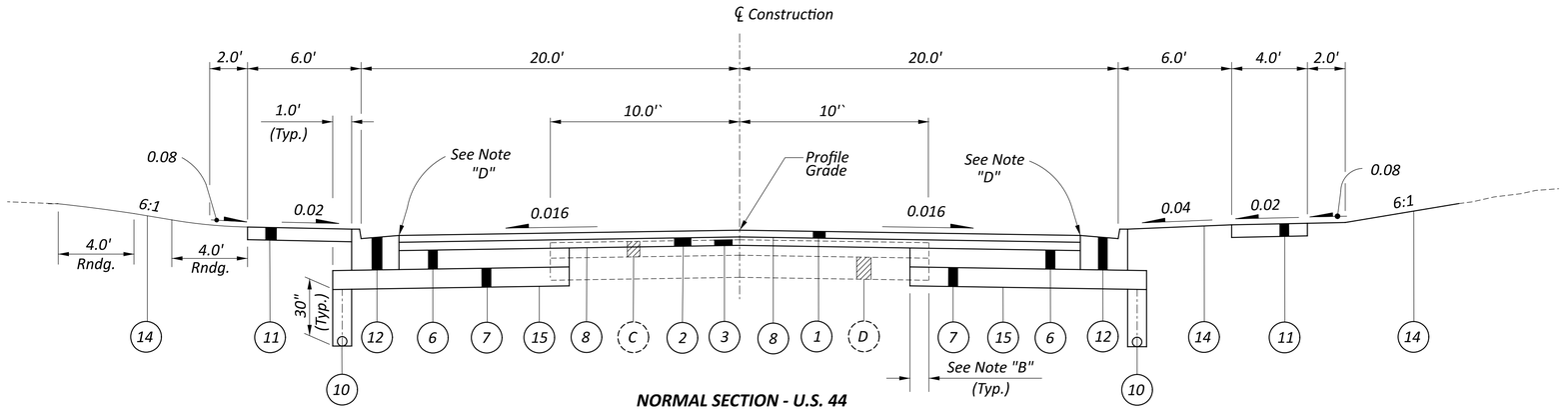
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LEGEND

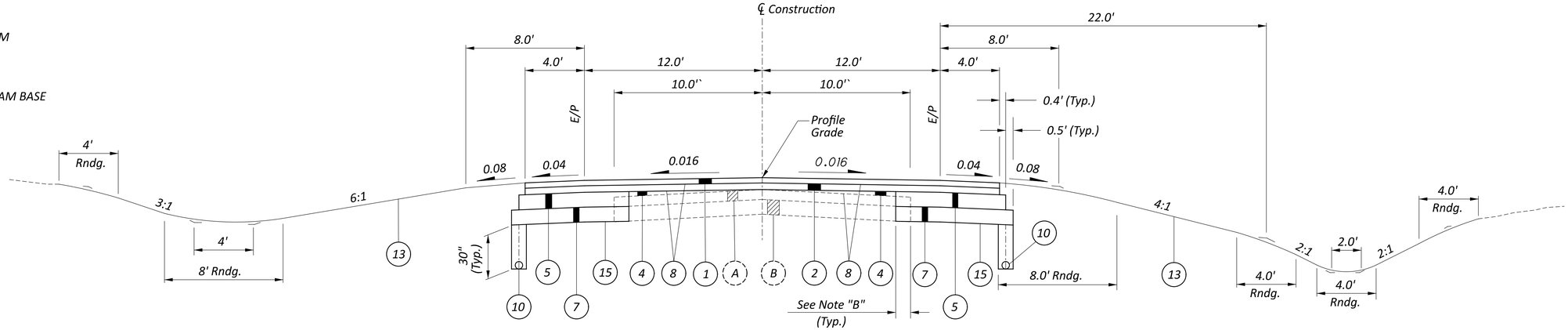
1. ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
2. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
3. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (SEE NOTE "A")
4. ITEM 441 - 0" MIN. ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) (SEE NOTE "C")
5. ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22
6. ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
7. ITEM 304 - 6" AGGREGATE BASE
8. ITEM 407 - TACK COAT
9. NOT USED
10. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
11. ITEM 608 - 4" CONCRETE WALK
12. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
13. ITEM 659 - SEEDING AND MULCHING
14. ITEM 660 - SODDING UNSTAKED
15. ITEM 204 - SUBGRADE COMPACTION
16. ITEM 606 - GUARDRAIL, TYPE MGS

- A. 5" ASPHALT CONCRETE
- B. 5" WATERBOUND MACADAM
- C. 4" ASPHALT CONCRETE
- D. 6" DENSE ASPHALT MACADAM BASE



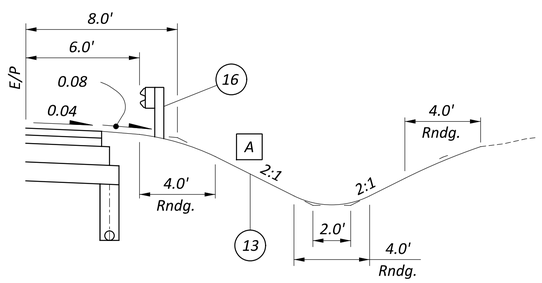
NORMAL SECTION - U.S. 44

STA. 300+00 TO STA. 318+50



NORMAL SECTION - S.R. 106

STA. 621+35 TO STA. 640+50



GUARDRAIL DETAIL - S.R. 106

SECTION APPLIES :

Sta. 635+50 to Sta. 637+75 Rt.

A Unless otherwise shown on the cross sections

NOTE "A"

PAVEMENT PLANING SHALL BE A CONSTANT DEPTH OF 1" AT THE ℄ OF CONSTRUCTION WITH A UNIFORM CROSS SLOPE OF 0.016 ESTABLISHED. MAXIMUM DEPTH OF PLANING AT THE OUTSIDE EDGES OF EXISTING PAVEMENT HAS BEEN CALCULATED TO BE 2½".

NOTE "B"

FOR ESTIMATING PURPOSES, ITEM 202 - PAVEMENT REMOVED CALCULATIONS INCLUDED IN THE PLAN INDICATE AN AVERAGE WIDTH OF 1 FT. OF EXISTING PAVEMENT BEING REPLACED.

NOTE "C"

ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), IS TO BE USED AS A LEVELING COURSE TO ESTABLISH A 0.016 CROSS SLOPE. ESTIMATED QUANTITIES HAVE BEEN CALCULATED BASED ON EXAGGERATED CROSS-SECTIONS SHOWN ON SHEETS P.51-P.58.

NOTE "D"

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, IS TO BE ¼" ABOVE GUTTER PLATE.

TYPICAL SECTIONS - U.S. 44 AND S.R. 106

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER ZZV
REVIEWER HZY 01/17/25
PROJECT ID 130402
SHEET P.4 TOTAL 71

GRE-44-9.00

MODEL: SP1304-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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LEGEND

(1) ITEM 441 - 1¼" Asphalt Concrete Surface Course, Type 1, (448), PG64-22

(2) ITEM 441 - 1¾" Asphalt Concrete Intermediate Course, Type 2, (448)

(3) ITEM 305 - 9" Concrete Base, Class QC IP, As Per Plan

(4) ITEM 304 - 6" Aggregate Base

(5) ITEM 254 - Pavement Planing, Asphalt Concrete (Max. Depth=3")

(6) ITEM 301 - 9" Asphalt Concrete Base, PG64-22

(7) ITEM 304 - 9" Aggregate Base

(8) ITEM 301 - 4" Asphalt Concrete Base, PG64-22

(9) ITEM 304 - Aggregate Base, Depth as shown

(10) ITEM 408 - Prime Coat (Applied At The Rate Of 0.4 Gal/Sq. Yd.)

(11) ITEM 407 - Tack Coat

(12) ITEM 609 - Curb, Type 6

(13) ITEM 660 - Sodding Unstaked

(14) ITEM 605 - 6" Shallow Pipe Underdrains

(15) ITEM 204 - Subgrade Compaction

(16) ITEM 609 - Curb, Type 2-B

(A) 12" ± Asphalt

(B) 8" ± Subbase

(C) Curb & Gutter

(D) 4" Concrete Sidewalk

(E) 3" ± Asphalt

(F) 9" ± Reinforced Concrete

(G) 6" ± Subbase

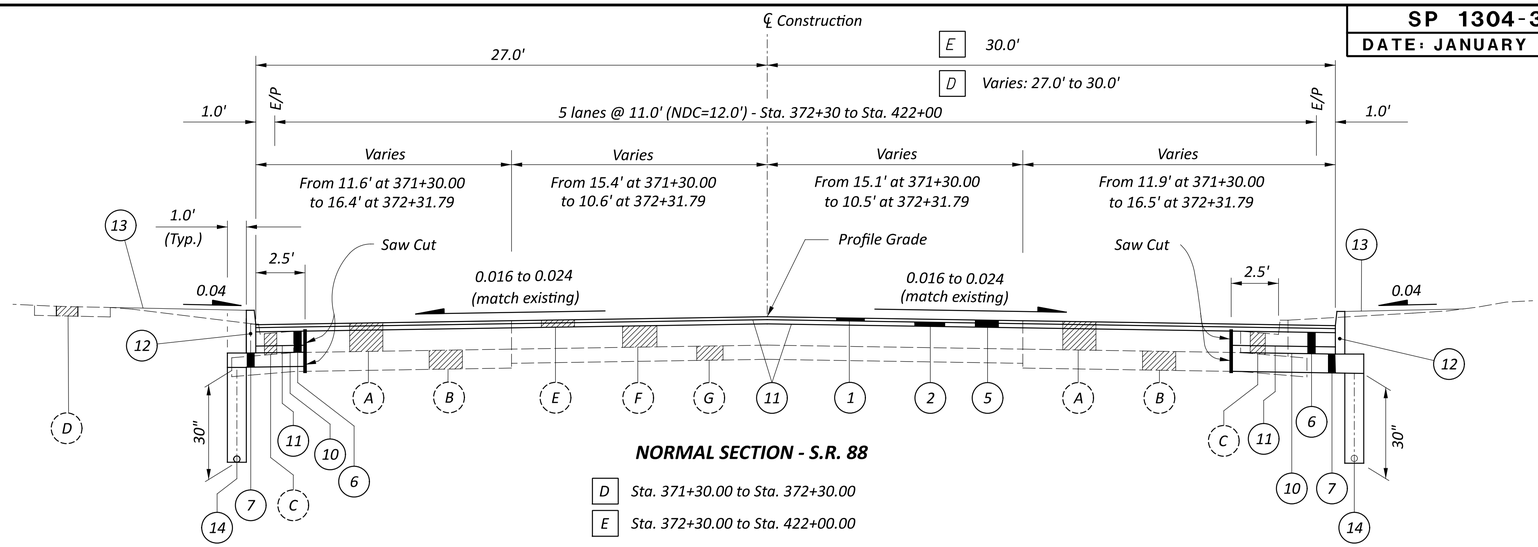
(H) 10" ± Asphalt

(J) 4" ± Subbase

[A] 25'-0" From Sta. 0+84 to Sta. 3+50
Varies: 25'-0" @ Sta. 3+50 to 12' @ Sta. 4+00

[B] 12'-0" From Sta. 0+84 to Sta. 3+50
Varies: 12'-0" @ Sta. 3+50 to 11'-0" @ Sta. 4+00

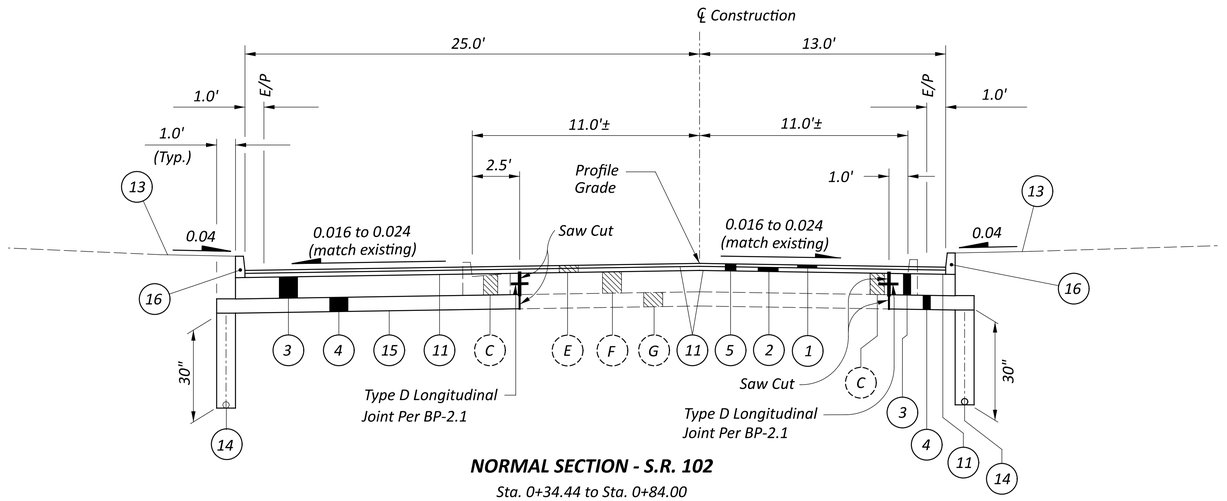
[C] Varies: 4' @ Sta. 3+50 to 2' @ Sta. 4+00



NORMAL SECTION - S.R. 88

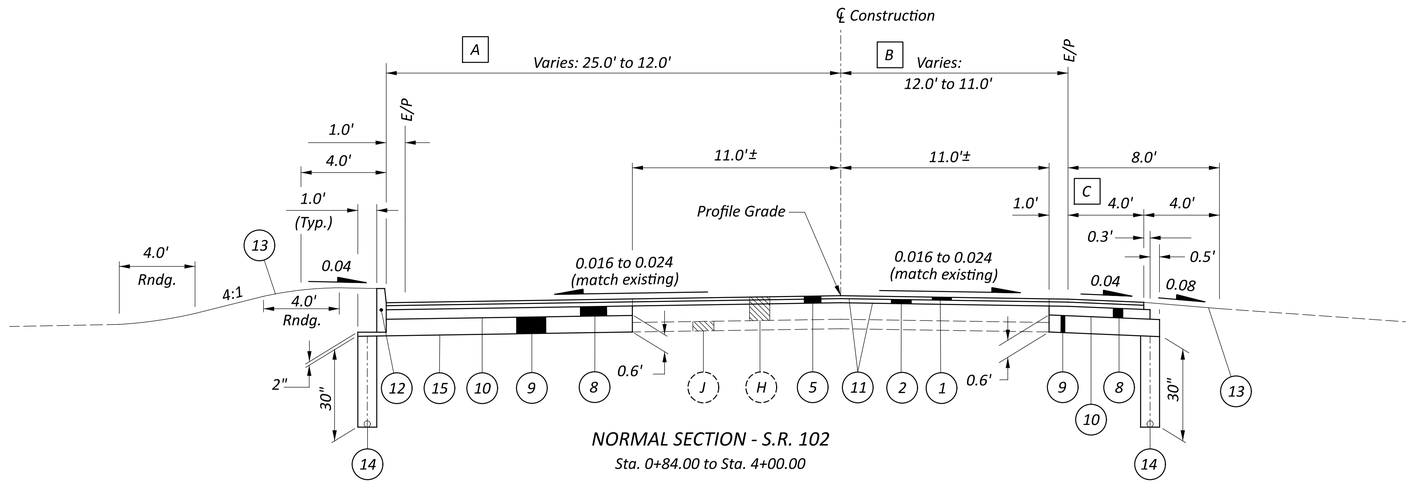
[D] Sta. 371+30.00 to Sta. 372+30.00

[E] Sta. 372+30.00 to Sta. 422+00.00



NORMAL SECTION - S.R. 102

Sta. 0+34.44 to Sta. 0+84.00



NORMAL SECTION - S.R. 102

Sta. 0+84.00 to Sta. 4+00.00

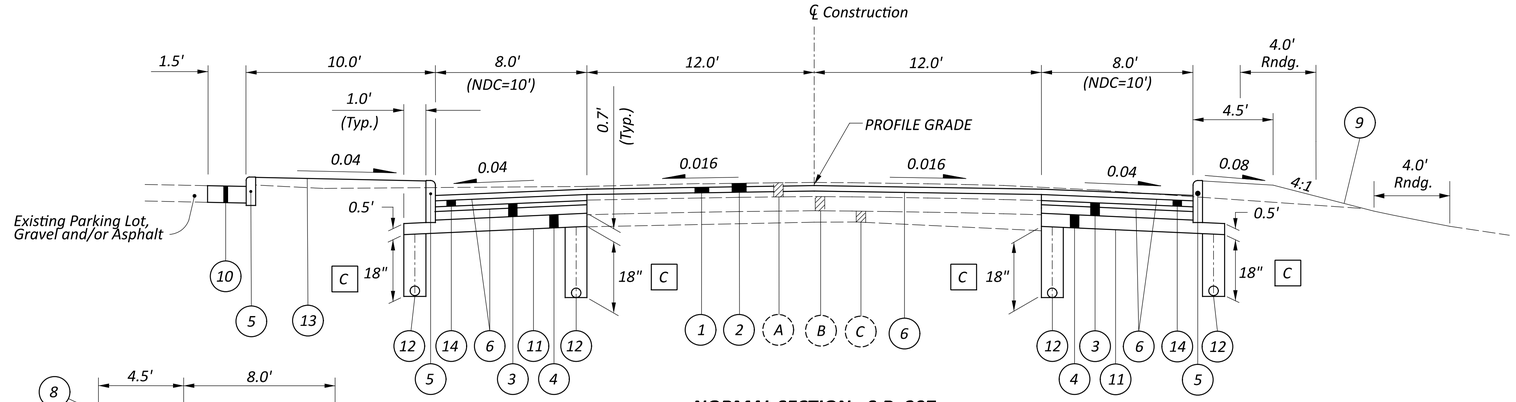
TYPICAL SECTIONS - S.R. 88 AND S.R. 102

SEN-88-5.35

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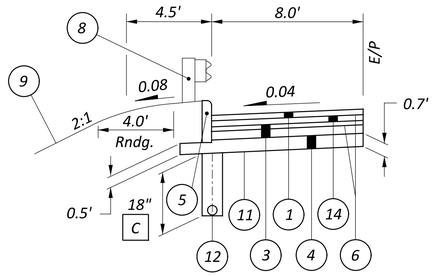
DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER OXD
REVIEWER AOH 01/17/25
PROJECT ID 130403
SHEET P.4 TOTAL 72



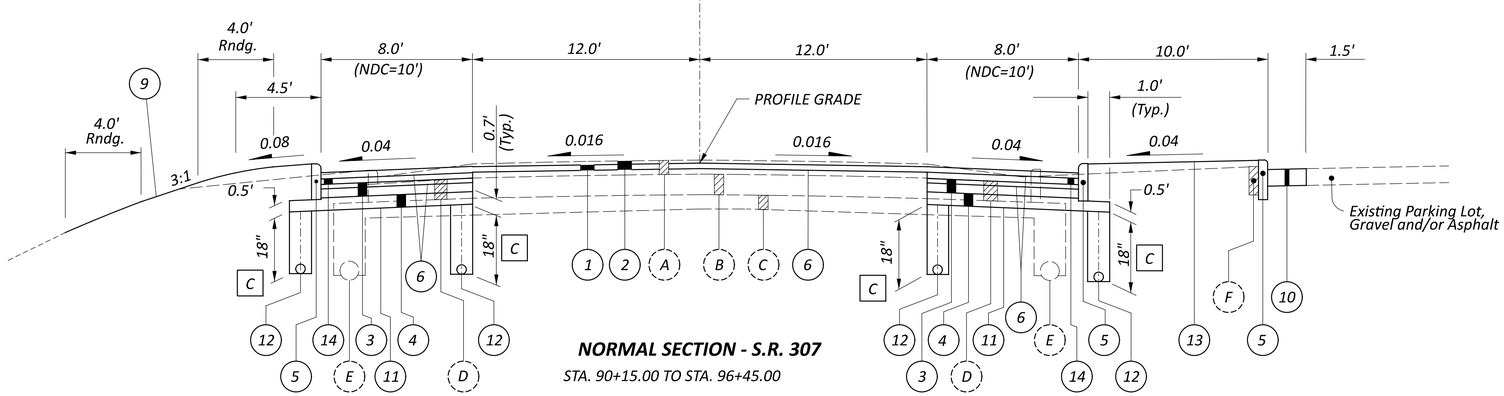
NORMAL SECTION - S.R. 307

STA. 88+75.00 TO STA. 90+15.00



GUARDRAIL SECTION

STA. 93+75 TO STA. 95+25 (Lt.)



NORMAL SECTION - S.R. 307

STA. 90+15.00 TO STA. 96+45.00

S.R. 307 PAVEMENT PLANING TABLES

STATION	PROPOSED PROFILE ELEVATION	PLANING DEPTH (FEET) @ ℄	STATION	PROPOSED PROFILE ELEVATION	PLANING DEPTH (FEET) @ ℄
88+50	1094.08	0.17	92+75	1095.26	0.27
88+75	1094.17	0.15	93+00	1095.28	0.19
89+00	1094.26	0.16	93+25	1095.32	0.20
89+25	1094.34	0.19	93+50	1095.36	0.21
89+50	1094.43	0.20	93+75	1095.41	0.22
89+75	1094.52	0.19	94+00	1095.46	0.24
90+00	1094.61	0.21	94+25	1095.51	0.28
90+25	1094.69	0.20	94+50	1095.56	0.38
90+50	1094.78	0.18	94+75	1095.61	0.34
90+75	1094.87	0.18	95+00	1095.66	0.26
91+00	1094.96	0.18	95+25	1095.71	0.17
91+25	1095.04	0.17	95+50	1095.69	0.16
91+50	1095.13	0.17	95+75	1095.67	0.15
91+75	1095.16	0.18	96+00	1095.65	0.14
92+00	1095.18	0.20	96+25	1095.63	0.15
92+25	1095.21	0.23	96+50	1095.61	0.16
92+50	1095.23	0.28			

LEGEND

1. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
2. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE [A]
3. ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22
4. ITEM 304 - AGGREGATE BASE, DEPTH AS SHOWN
5. ITEM 609 - CURB, TYPE 6
6. ITEM 407 - TACK COAT
7. ITEM 408 - PRIME COAT (APPLIED AT THE RATE OF 0.4 GAL./SQ.YD.)
8. ITEM 606 - GUARDRAIL, TYPE MGS
9. ITEM 659 - SEEDING AND MULCHING (SEE GENERAL NOTE)
10. SEE PAVEMENT BUILDUP NOTE, THIS SHEET [B]
11. ITEM 204 - SUBGRADE COMPACTION
12. ITEM 605 - 6" BASE PIPE UNDERDRAINS
13. ITEM 660 - SODDING UNSTAKED
14. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)

- A. 6" ASPHALT SURFACE
- B. 9" REINFORCED CONCRETE BASE
- C. 6" MIN. CLASSIFIED EMBANKMENT BLANKET COURSE
- D. CURB & GUTTER (TO BE REMOVED)
- E. ROADWAY DRAINAGE, 12" (TO BE REMOVED)
- F. CURB (TO BE REMOVED)

NOTES

S.R. 307 - THE CROWN SHALL BE WORKED OUT OF THE PAVEMENT BETWEEN STA. 92+57.25 AND STA. 92+97.25.

- THE PAVEMENT BETWEEN STA. 92+97.25 AND STA. 94+02.25 SHALL BE BUILT WITHOUT CROWN.

- THE CROWN SHALL BE WORKED INTO THE PAVEMENT BETWEEN STA. 94+02.25 AND STA. 94+42.25.

[A] IN AN EFFORT TO REMOVE EXISTING PARABOLIC CROWN AND ESTABLISH A SMOOTH AND CONSISTENT PROFILE THROUGHOUT THE PROJECT, THE PAVEMENT SHALL BE PLANED TO A DEPTH INDICATED IN THE PAVEMENT PLANING TABLE ON THIS SHEET. A 0.016 NORMAL CROSS SLOPE SHALL BE ESTABLISHED FROM THE CENTERLINE TO THE EXISTING EDGE OF PAVEMENT.

[B] THE PAVEMENT BUILD-UP WHEN ADJOINING AN EXISTING ASPHALT PAVEMENT SHALL BE AS FOLLOWS:

ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22

ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)

ITEM 304 - 8" AGGREGATE BASE

THE PAVEMENT BUILD-UP WHEN ADJOINING AN EXISTING GRAVEL OR SLAG PARKING AREA SHALL BE AS FOLLOWS:

ITEM 304 - 11" AGGREGATE BASE

[C] UNCLASSIFIED UNDERDRAIN LIMITS:

STA. 88+75 TO STA. 91+25 AND

STA. 95+25 TO STA. 96+27.25

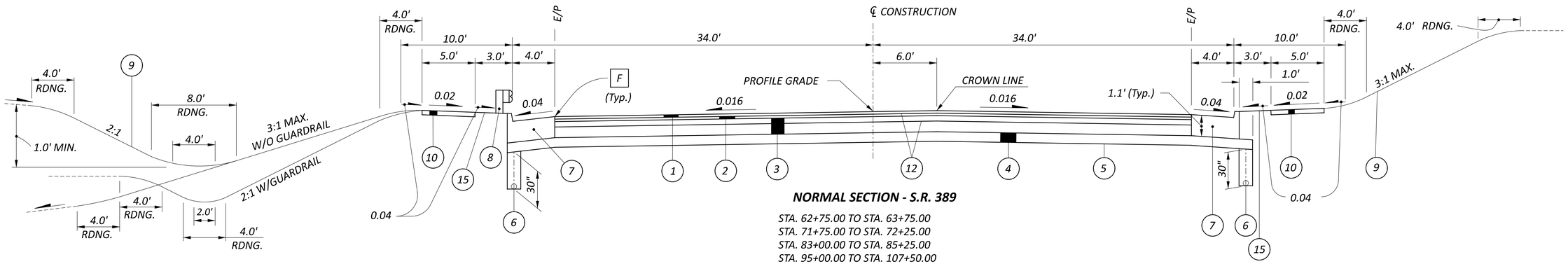
TYPICAL SECTIONS - S.R. 307

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER LHQ
REVIEWER SGH 01/17/25
PROJECT ID 130404
SHEET P.3 TOTAL 50

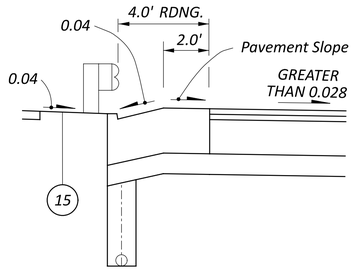
HOL-307-16.54

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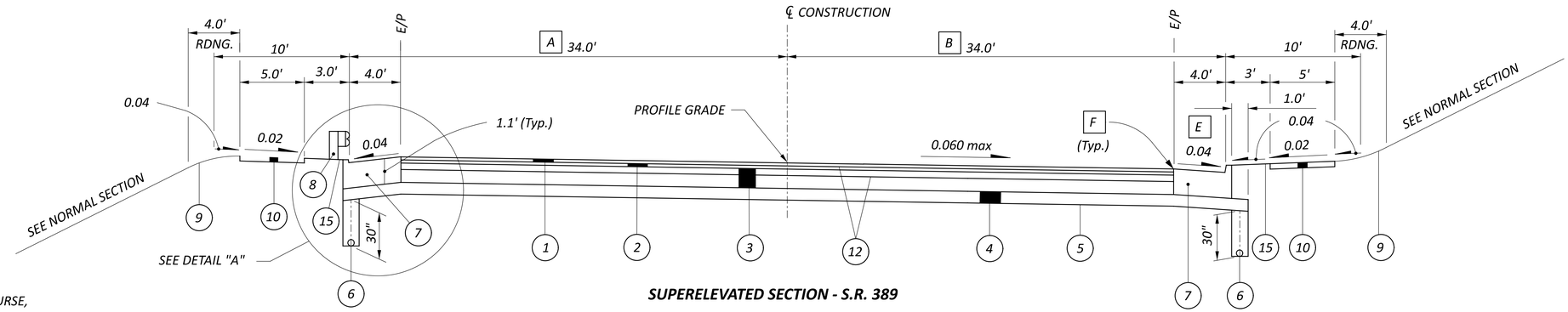


NORMAL SECTION - S.R. 389

STA. 62+75.00 TO STA. 63+75.00
STA. 71+75.00 TO STA. 72+25.00
STA. 83+00.00 TO STA. 85+25.00
STA. 95+00.00 TO STA. 107+50.00

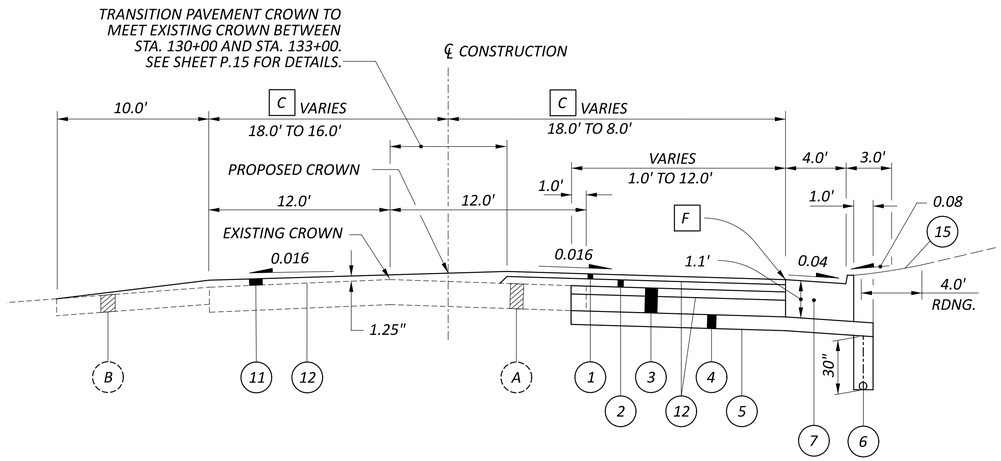


HIGH-SIDE CURB DETAIL "A"



SUPERELEVATED SECTION - S.R. 389

STA. 55+60.00 TO STA. 62+75.00
STA. 63+75.00 TO STA. 71+75.00
STA. 72+25.00 TO STA. 78+13.66
STA. 78+13.66 TO STA. 83+00.00 (SUPERELEVATION DIRECTION REVERSED)
STA. 85+25.00 TO STA. 95+00.00
STA. 107+50.00 TO STA. 130+00.00 (SUPERELEVATION DIRECTION REVERSED)



WIDENING AND RESURFACING - S.R. 389

STA. 130+00.00 TO STA. 133+00.00

LEGEND

(1) ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22

(2) ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)

(3) ITEM 301 - 10" ASPHALT CONCRETE BASE, PG64-22

(4) ITEM 304 - 6" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS [D]

(7) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN (SEE SHEET P.9)

(8) ITEM 606 - GUARDRAIL, TYPE 5

(9) ITEM 659 - SEEDING AND MULCHING

(10) ITEM 608 - 4" CONCRETE WALK

(11) ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 (VARIABLE THICKNESS)

(12) ITEM 407 - TACK COAT

(13) ITEM 408 - PRIME COAT (APPLIED AT THE RATE OF 0.4 GAL./SQ. YD.)

(14) NOT USED

(15) ITEM 660 - SODDING UNSTAKED

(A) 3"± ASPHALT PAVEMENT OVER 10"± AGGREGATE SUBBASE

(B) 8"± DENSE ASPHALT

NOTES:

FOR VARIABLE PAVEMENT WIDTHS AND SIDEWALK LIMITS, SEE PAVEMENT DETAILS, SHEETS P.15 - P.18.

[A] *WIDTH VARIES FROM 34'-0" @ STA. 129+50 TO 22'-0" @ STA. 130+00 DUE TO RIGHT TURN LANE TAPER FROM 12' TO 0'*

[B] *WIDTH VARIES FROM 34'-0" @ STA. 124+60 TO 22'-0" @ STA. 130+00 DUE TO RIGHT THRU LANE TAPER FROM 12' TO 0'*

[C] *PAVEMENT WIDTH VARIES FROM 18'-0", LT. & RT. @ STA. 130+00 TO 16'-0" LT. AND 8'-0", RT. @ STA. 133+00 DUE TO LEFT TURN LANE TRANSITION*

[D] *EXCEPT IN AREAS OF GUARDRAIL SECTIONS, PIPE UNDERDRAINS SHALL BE LOCATED IMMEDIATELY BEHIND THE CURB.*

[E] *OR PAVEMENT SLOPE, IF GREATER*

[F] *ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22, IS TO BE ¼" ABOVE GUTTER PLATE.*

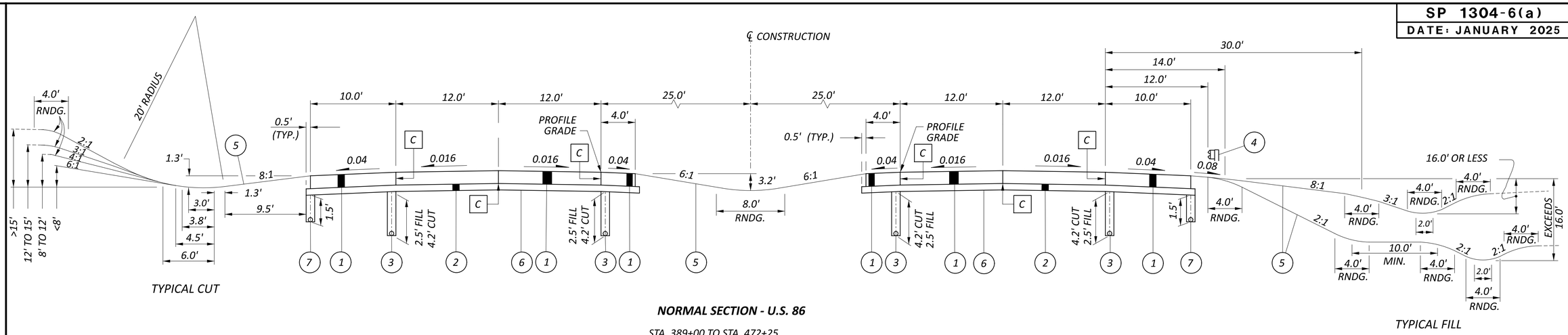
TYPICAL SECTIONS - S.R. 389

DESIGN AGENCY

DESIGNER SCA
REVIEWER BJJ 01/17/25
PROJECT ID 130405
SHEET P.3 TOTAL 167

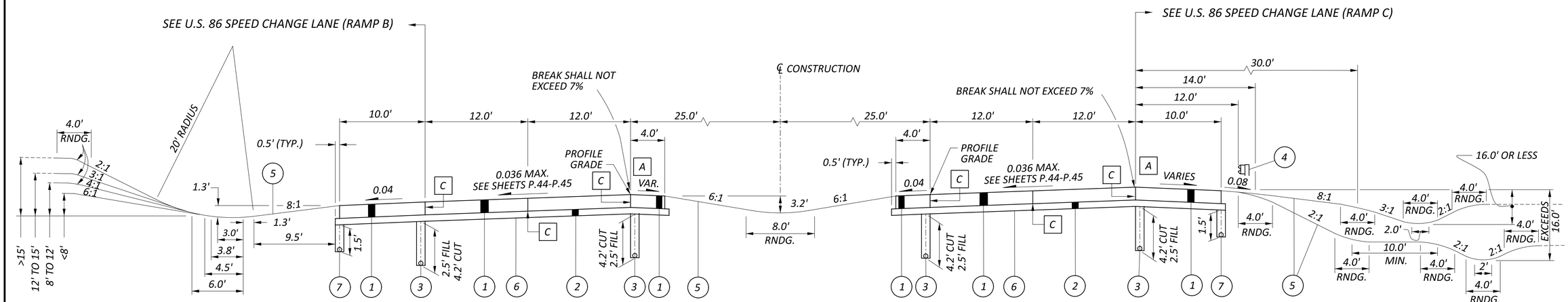
GUE-389-17.63

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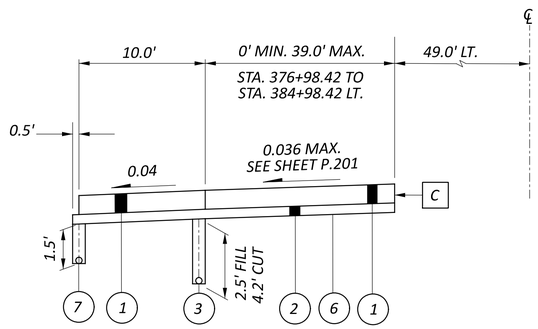
NORMAL SECTION - U.S. 86

STA. 389+00 TO STA. 472+25
STA. 501+75 TO STA. 559+00

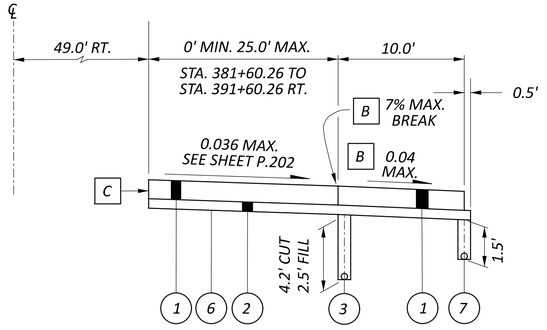


SUPERELEVATED SECTION - U.S. 86

STA. 362+50 TO STA. 389+00
STA. 472+25 TO STA. 501+75



U.S. 86 SPEED CHANGE LANE (RAMP B)



U.S. 86 SPEED CHANGE LANE (RAMP C)

A *0.04 MAX. TO 0.034 MIN.*

B *SLOPE CONDITIONS SHOWN FOR HIGH SIDE SHOULDER ADJACENT TO SPEED CHANGE LANE PAVEMENT; FOR LOW SIDE OF SHOULDERS ADJACENT TO SPEED CHANGE LANE PAVEMENT, SHOULDER SLOPE SHALL BE 0.04.*

C *LONGITUDINAL JOINT PER BP-2.1*

LEGEND

1. *ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP*
2. *ITEM 304 - 6" AGGREGATE BASE*
3. *ITEM 605 - 6" DEEP PIPE UNDERDRAINS*
4. *ITEM 606 - GUARDRAIL, TYPE 5*
5. *ITEM 659 - SEEDING AND MULCHING*
6. *ITEM 204 - SUBGRADE COMPACTION*
7. *ITEM 605 - 6" BASE PIPE UNDERDRAINS*

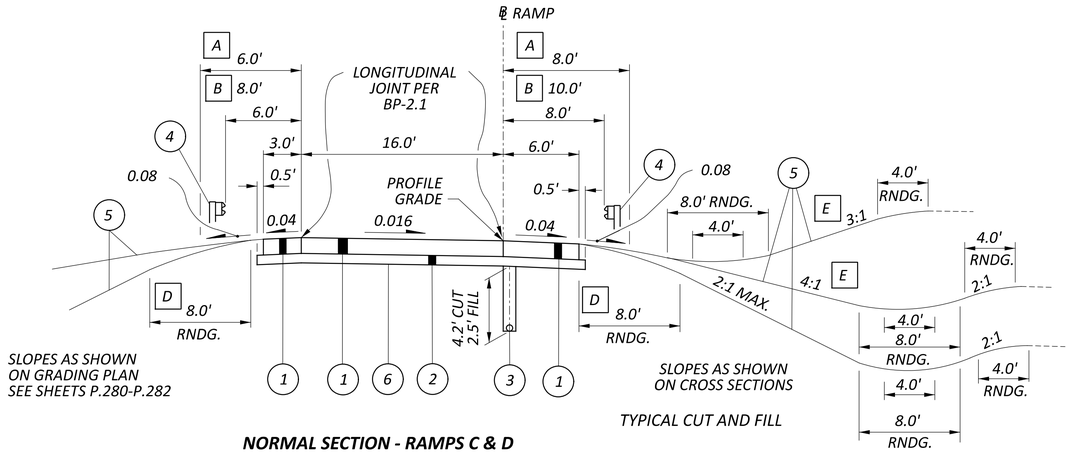
TYPICAL SECTIONS - U.S. 86

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER MNN
REVIEWER PMH 01/17/25
PROJECT ID 130406
SHEET P.9 TOTAL 306

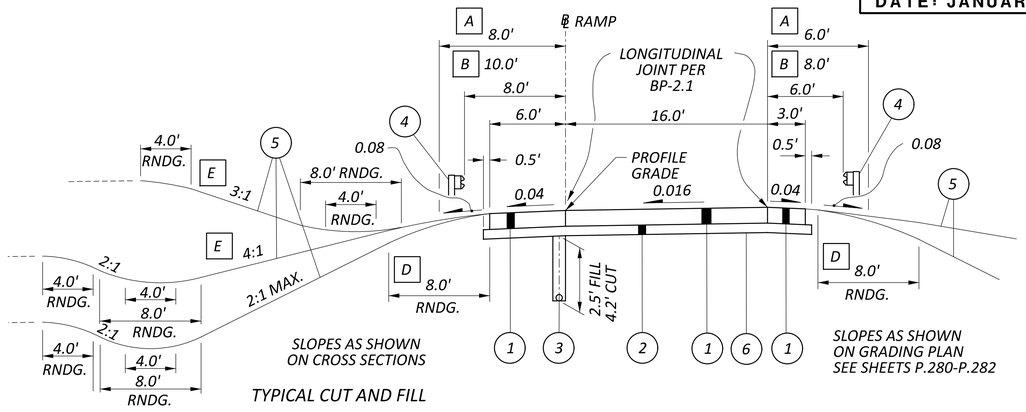
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NORMAL SECTION - RAMPS C & D

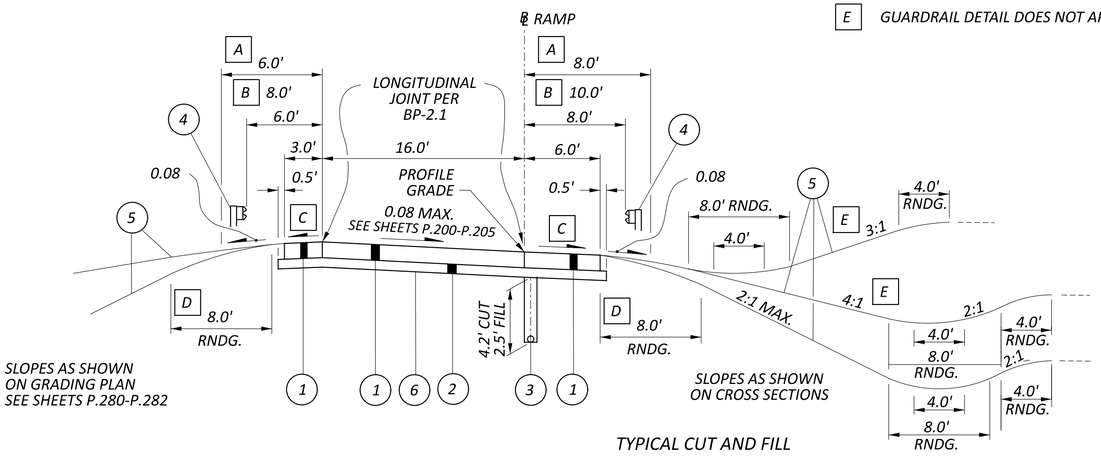
STA. 465+49.13 TO STA. 477+25 RAMP C
STA. 557+00 TO STA. 566+96.94 RAMP D



NORMAL SECTION - RAMPS A & B

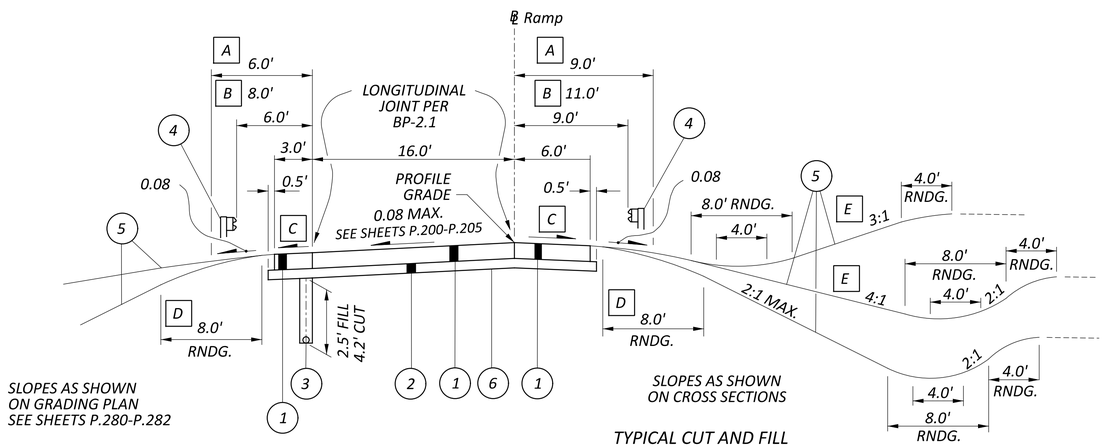
STA. 160+75 TO STA. 166+65.18 RAMP A
STA. 266+17.10 TO STA. 271+50 RAMP B

A	*WHEN FORESLOPE IS 6:1 OR FLATTER*
B	*FOR GUARDRAIL SECTIONS AND NON-GUARDRAIL SECTIONS WITH FORESLOPE STEEPER THAN 6:1*
C	*SEE DETAILS "A" AND "B"*
D	*4' ROUNDING ON GUARDRAIL SECTIONS; NO ROUNDING REQUIRED WHEN FORESLOPE IS 6:1 OR FLATTER.*
E	*GUARDRAIL DETAIL DOES NOT APPLY*



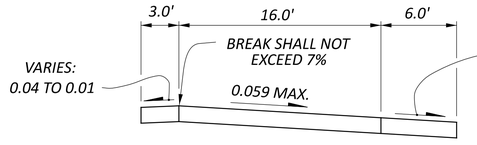
SUPERELEVATED SECTION (RIGHT) - RAMPS C & D

STA. 477+25 TO STA. 481+60.26 RAMP C
STA. 554+58.38 TO STA. 557+00 RAMP D

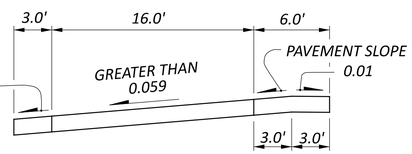


SUPERELEVATED SECTION (LEFT) - RAMPS E & F

STA. 354+62.19 TO STA. 360+75 RAMP E
STA. 571+50 TO STA. 577+03.57 RAMP F



DETAIL A



DETAIL B

FOR LEGEND, SEE SHEET P.9

TYPICAL SECTIONS
RAMPS A, B, C, D, E, & F

MAD-86-10.64

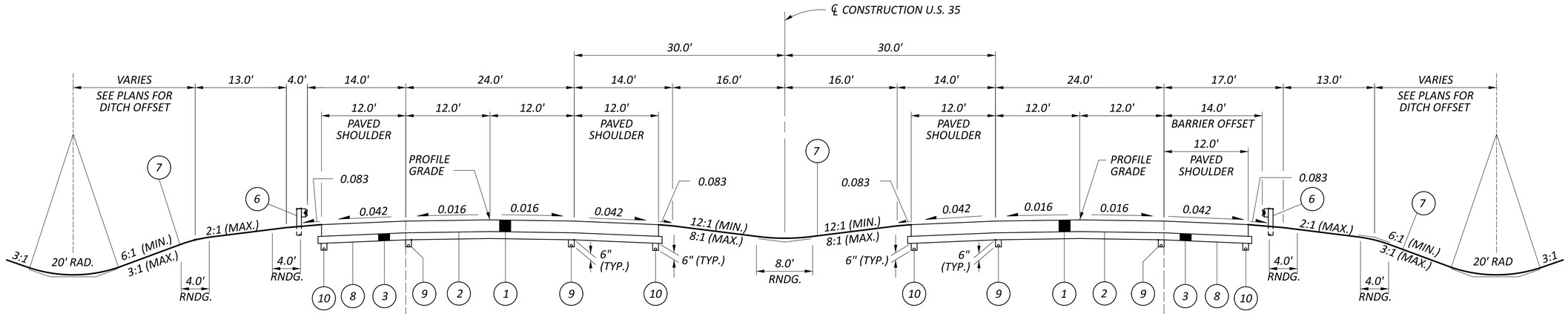
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DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER MHH
REVIEWER PMH 01/17/25
PROJECT ID 130406
SHEET P.10 TOTAL 306

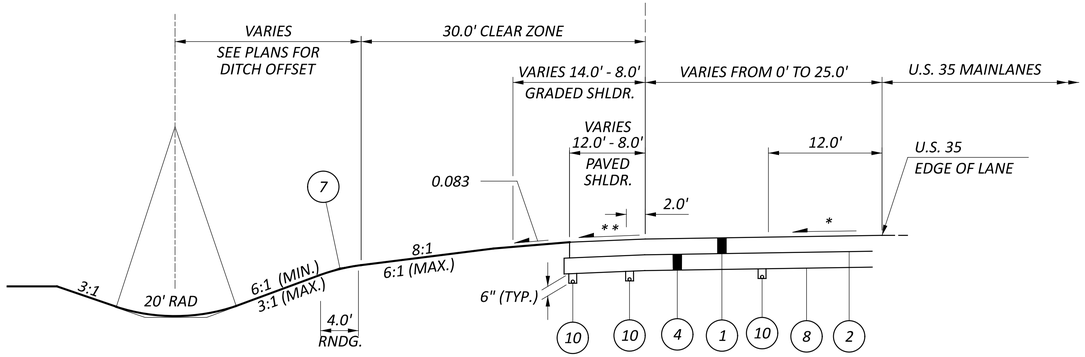
LEGEND

1. ITEM 880 - 10" ASPHALT CONCRETE WITH WARRANTY (7 YEARS)
2. ITEM 408 - PRIME COAT (0.4 GAL/YD²)
3. ITEM 304 - 6" AGGREGATE BASE
4. ITEM 304 - 10" AGGREGATE BASE
5. ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS, AS PER PLAN
6. ITEM 606 - GUARDRAIL, TYPE MGS
7. ITEM 659 - SEEDING AND MULCHING
8. ITEM 204 - SUBGRADE COMPACTION
9. ITEM 605 - 6" BASE PIPE UNDERDRAINS
10. ITEM 605 - 4" BASE PIPE UNDERDRAINS



TYPICAL SECTION #1
60' MEDIAN - NORMAL SECTION - U.S. 35

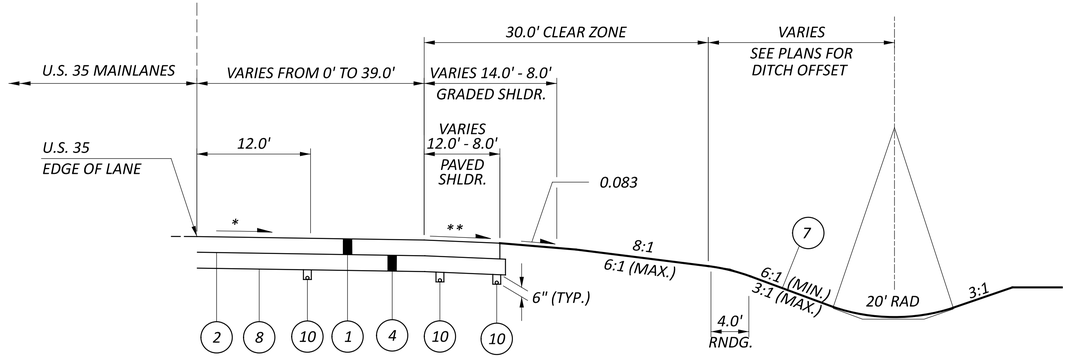
STA. 595+00 TO STA. 607+50



RAMP B ACCEL. LANE DETAIL

* SLOPE MATCHES MAINLANE RATE (0.016) UNTIL SUPER TRANSITION FOR RAMP. TRANSITION FROM NORMAL CROSS SLOPE TO SUPERELEVATED SECTION BETWEEN STATIONS 598+75 AND 600+90.

** 0.042 OR RATE OF SUPER, IF GREATER.



RAMP A DECEL. LANE DETAIL

* SLOPE MATCHES MAINLANE RATE (0.016) UNTIL SUPER TRANSITION FOR RAMP. TRANSITION FROM NORMAL CROSS SLOPE TO SUPERELEVATED SECTION BETWEEN STATIONS 595+50 AND 596+25.

** 0.042 OR RATE OF SUPER, IF GREATER.

TYPICAL SECTIONS - U.S. 35

GUE-35-8.36

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DESIGN AGENCY

DESIGNER RZT
REVIEWER VNW 01/17/25
PROJECT ID 130407
SHEET P.3 TOTAL 154

ROUNDING

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

UTILITIES

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

ELECTRIC:
AMERICAN ELECTRIC POWER
215 NORTH FRONT STREET
COLUMBUS, OHIO 43215
(614) 464-7911

GAS:
COLUMBIA GAS OF OHIO
939 WEST GOODALE BOULEVARD
COLUMBUS, OHIO 43212
(614) 460-2240

TELEPHONE:
SBC AMERITECH
150 EAST GAY STREET
ROOM 6F
COLUMBUS, OHIO 43215
(614) 223-8535

CABLE:
TIME WARNER COMMUNICATIONS
1266 DUBLIN ROAD
COLUMBUS, OHIO 43212
(614) 481-5261

SANITARY, STORM:
CITY OF COLUMBUS
DIVISION OF SEWERAGE & DRAINAGE
910 DUBLIN ROAD
COLUMBUS, OHIO 43215
(614) 645-7175

WATER:
CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OHIO 43215
(614) 645-7677

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET FOR A TABLE CONTAINING PRIMARY PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PRIMARY PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PRIMARY PROJECT CONTROL

POSITIONING METHOD: STATIC GNSS
MONUMENT TYPE: A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID09

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(CORS96)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - SOUTH ZONE
COMBINED SCALE FACTOR: 1.000059007
ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHOD AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 823.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

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

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	*NO. TREES*	*NO. STUMPS*	*TOTAL*
18"	*8*	*2*	*10*
30"	*1*	*2*	*3*
48"	*0*	*1*	*1*
60"	*1*	*0*	*1*

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SEEDING AND MULCHING 310 SQ. YD.

659, REPAIR SEEDING AND MULCHING 16 SQ. YD.
(310) X (0.05) = 15.5 SQ. YD.

659, SOIL ANALYSIS TEST 2 EACH

659, TOPSOIL 34 CU. YD.
(310) X (111 CY PER 1000 SY) = 34.4 SQ. YD.

659, COMMERCIAL FERTILIZER 0.05 TON
[(310) X (1 TON / 7410 SY)] + [(16 SY) X (1 TON / 11115 SY)] = 0.05 TON

659, LIME 0.06 ACRE
(310) X (1 ACRE / 4840 SY) = 0.06 ACRE

659, INTER-SEEDING 16 SQ. YD.
(310) X (0.05) = 15.5 SQ. YD.

659, WATER 2 M. GAL.
[(310) X (0.0054 M GAL / SY)] + [(16) x (.0027 GAL/SY)] = 2 M. GAL

APPLY SEEDING AND MULCHING TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR TEMPORARY EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE B	*50 FT.*
611, 6" CONDUIT, TYPE C	*50 FT.*
611, 6" CONDUIT, TYPE E	*50 FT.*
611, 6" CONDUIT, TYPE F	*50 FT.*

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT SHOWN ON THE PLAN VIEW SHEETS. THE PROPOSED PROFILE SHALL FOLLOW THE PROPOSED ELEVATIONS SHOWN ON THE CROSS SECTION SHEETS. THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL VARY TO PRODUCE THE PROPOSED ELEVATIONS SHOWN ON THE CROSS SECTIONS.

PRIMARY PROJECT CONTROL INFORMATION

POINT NUMBER	*GRID COORDINATES U.S. SURVEY FEET*		*SCALED COORDINATES U.S. SURVEY FEET*		*ORTHOMETRIC HEIGHT (ELEVATION)*	*DESCRIPTION*
	NORTHING	*EASTING*	*NORTHING*	*EASTING*		
CP1	*648471.989*	*2085554.754*	*648510.253*	*2085677.816*	*634.80*	*PROJECT CONTROL - STEEL ROD SET IN CONCRETE*
CP2	*646970.005*	*2084508.912*	*647008.181*	*2084631.913*	*636.54*	*PROJECT CONTROL - STEEL ROD SET IN CONCRETE*
CP3	*647678.067*	*2084753.211*	*647716.285*	*2084876.226*	*655.38*	*AZIMUTH MARK- STEEL ROD SET IN CONCRETE*
CP4	*647186.714*	*2084974.770*	*647224.903*	*2084974.711*	*656.63*	*AZIMUTH MARK - STEEL ROD SET IN CONCRETE*

GENERAL NOTES

FRA-40-13.67
MODEL: SP1305-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN AGENCY

DESIGNER RLR
REVIEWER DKH 01/17/25
PROJECT ID 130501
SHEET P.4 TOTAL 137

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR FOR ITEM 659, SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

SEE SHEET P.18 FOR SEEDING AND MULCHING SUBSUMMARY.

WATERING AND MOWING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR PERMANENT SEEDED AREAS PER 659.09:

659, WATER 22 MGAL
659, MOWING 23 MSF

EROSION CONTROL

ITEMS 601, 660 AND 670 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS AND TURF OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE 660 OR 670. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS QUANTITIES OF THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

ITEM 604, CATCH BASIN NO. 2-3 AND 2-5 AS PER PLAN

CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 604 EXCEPT THAT THE GRATES SHALL BE NEENAH NO. R-4859-C OR EAST JORDAN NO. 5110 TYPE M2 OR APPROVED EQUALS.

ITEM 611 - CONDUIT BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 10 FEET TO THE (EDGE OF PAVEMENT - NEAREST RAIL). PROVIDE A 0.50 INCH UNGALVANIZED CASING PIPE CONFORMING TO 748.06 THAT HAS JOINT WITH A CIRCUMFERENCIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY AN ODOT APPROVED FIELD WELDER. THE INSTALLED CASING PIPE IN THE STORM WATER CONVEYNACE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

ITEM 605, AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT FIFTY (50) FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, STAGGERED SO THAT EACH DRAIN IS 25 FEET FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE AND AT TWENTY-FIVE (25) FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS. AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

UNRECORDED UNTREATED NON-STORMWATER DRAINAGE

FURNISH NO CONTINUANCE FOR ANY UNRECORDED UNTREATED NON-STORMWATER DRAINAGE SUCH AS UNTREATED SEPTIC, UNTREATED WASTEWATER, UNTREATED CURTAIN/GRADIENT DRAINS, AND UNTREATED FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. PLUG ANY UNRECORDED, UNTREATED, NON-STORMWATER DRAINAGE WITH CLASS C CONCRETE AT THE RIGHT-OF-WAY LINE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 OR 203 ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS

FURNISH A CONTINUANCE FOR ALL UNRECORDED ACTIVE SANITARY SEWER CONNECTINOS SUCH AS SANITARY, WASTEWATER, CURTAIN/GRADIENT DRAINS, AND FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH AN UNOBSTRUCTED CONTINUANCE OF THE UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS TO THE SATISFACTIN OF THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT-OF-WAY USE PERMIT. ALL SANITARY AND SANITARY WASTEWATER MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35, 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 8" CONDUIT, TYPE B, FOR SANITARY 100 FT.

611, 6" CONDUIT, TYPE C, FOR SANITARY 100 FT.

ITEM 611 - 10' X 8' CONDUIT, TYPE A, 706.05, AS PER PLAN (DESIGN EARTH COVER = 6 FEET)

SEGMENTAL, PRECAST CONCRETE FOUR SIDED STRUCTURES WHICH ARE BELOW FINISHED GRADE AND WILL NOT BE PAVED DIRECTLY OVER SHALL HAVE ITEM SPECIAL, MEMBRANE WATERPROOFING, SHEET TYPE 2 (SEE PROPOSAL NOTE) APPLIED TO THE TOP SURFACE AND VERTICALLY DOWN THE ENTIRE SIDES FOR ALL PORTIONS OF THE STRUCTURE WHICH SHALL BE IN CONTACT WITH THE BACKFILL.

THE EXTERIOR JOINT GAP ON THE TOP AND SIDES BETWEEN THE PRECAST STRUCTURE SECTIONS SHALL BE FILLED WITH PORTLAND CEMENT MORTAR PRIOR TO INSTALLING THE MEMBRANE WATERPROOFING. JOINT WRAP AS SPECIFIED IN 611.08 AND CONCRETE SEALING AS SPECIFIED IN 611.09 ARE NOT REQUIRED UNDER THE LIMITS OF THE MEMBRANE WATERPROOFING. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR PERTINENT ITEM SPECIAL, MEMBRANE WATERPROOFING, SHEET TYPE (SEE PROPOSAL NOTE).

WHEN ITEM SPECIAL, SEALING OF CONCRETE SURFACES (EPOXY) (SEE PROPOSAL NOTE) IS SPECIFIED ON THE HEADWALLS OF A PRECAST CONCRETE STRUCTURE, ANY PRECAST STRUCTURE SECTIONS BEYOND THE LIMIT OF THE MEMBRANE WATERPROOFING SHALL ALSO BE SEALED WITH THE SAME SEALANT. PAYMENT FOR THE SEALING OF THE PRECAST CONCRETE STRUCTURE SURFACES SHALL BE MADE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL, SEALING OF CONCRETE SURFACES (EPOXY) (SEE PROPOSAL NOTE).

GENERAL NOTES

DESIGN AGENCY

DESIGNER RLR
REVIEWER DKH 01/17/25
PROJECT ID 130502
SHEET P.5 TOTAL 137

FRA-40-13.67

MODEL: SP1305-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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ITEM 614, MAINTAINING TRAFFIC

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND DIRECTOR OF PUBLIC WORKS, CITY OF PETERSBURG, AT LEAST 48 HOURS IN ADVANCE (EXCLUSIVE OF SATURDAY, SUNDAY OR HOLIDAYS) OF HIS INTENT TO DIVERT TRAFFIC AND TWO WEEKS IN ADVANCE OF A DETOUR.

NO CHANGE IN TRAFFIC PATTERNS SHALL TAKE PLACE DURING PEAK HOURS, 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY.

THE CONTRACTOR SHALL NOTIFY CONRAIL (PHONE: 215-596-2923) AND THE ENGINEER AT LEAST ONE WEEK IN ADVANCE OF HIS INTENT TO CLOSE CONRAIL TRACKS TO TRAFFIC FOR THE REMOVAL OF PORTIONS OF EXISTING BRIDGE OVER AND/OR NEAR THE TRACKS. THE TRACK CLOSURES SHALL BE LIMITED TO SATURDAY, SUNDAY AND/OR MONDAY.

ACCESS TO THE PARKING LOT ON BEECHMONT COURT (EAST OF CONRAIL TRACKS) SHALL BE MAINTAINED AT ALL TIMES AND OTHER LOCAL TRAFFIC SHALL BE MAINTAINED AS PER CMS 614.02(A).

S.R. 86 - TWO LANE, TWO WAY TRAFFIC SHALL BE MAINTAINED DURING PEAK HOURS AND AT ALL OTHER TIMES EXCEPT AS FOLLOWS:

ONE LANE, TWO WAY TRAFFIC (USING STANDARD DWG. MT-97.10) WILL BE PERMITTED FOR MINIMUM PERIODS CONSISTENT WITH REQUIREMENTS OF THE SPECIFICATIONS FOR COMPLETED ASPHALT COURSES AND WHEN NECESSARY FOR THE CONTRACTOR'S EQUIPMENT TO OCCUPY THE PAVEMENT FOR A SHORT TIME.

S.R. 86 MAY BE CLOSED TO TRAFFIC UNDER CONDITIONS STATED IN THE SEQUENCE OF CONSTRUCTION.

EASTERN AVENUE AND BEECHMONT CIRCLE MAY BE CLOSED FOR SHORT DURATIONS (15 MINUTES) DURING BRIDGE DEMOLITION OR BRIDGE BEAM ERECTION. TRAFFIC BACKUP SHALL BE CLEARED AFTER EACH CLOSURE AND ALLOWED TO PASS FREELY WITH NO RESTRICTION (ONE LANE IN EACH DIRECTION FOR 10 MINUTES BEFORE ANOTHER CLOSURE IS MADE. TWO LANE, TWO WAY TRAFFIC SHALL BE MAINTAINED DURING PEAK HOURS NOTED ABOVE.

RAMP C AND E MAY BE CLOSED AS PER THE SEQUENCE OF CONSTRUCTION; OTHERWISE, TRAFFIC SHALL BE MAINTAINED ON EXISTING, PAVEMENT FOR MAINTAINING TRAFFIC OR PROPOSED PAVEMENT BASE COURSES.

THE FINAL SURFACE AND INTERMEDIATE PAVEMENT COURSES SHALL BE COMPLETED TO THE EXTENT POSSIBLE DURING THE "FINAL DETOUR" PHASE. THE REMAINING WORK SHALL BE COMPLETED AFTER THE "FINAL DETOUR" PHASE WHILE MAINTAINING TRAFFIC.

BEECHMONT COURT SHALL BE OPEN AT ALL TIMES EXCEPT THAT ACCESS TO #3753 BEECHMONT COURT MAY BE CUT OFF CUT OFF WHEN THE DRIVE TO BEECHMONT CIRCLE IS COMPLETED. ACCESS TO #3755, #3711 BEECHMONT COURT AND #4747 EASTERN AVENUE SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC THROUGHOUT THE PROJECT CONSTRUCTION FROM BEACHMONT AVENUE/CHURCH PLACE INTERSECTION TO EASTERN AVENUE BY KEEPING THE EXISTING STAIRS LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION OPEN FOR THE DURATION OF THE "INITIAL DETOUR PHASE" AND "PHASE I". THE EXISTING STAIRS SHALL REMAIN OPEN UNTIL PEDESTRIAN ACCESS IS PROVIDED BY OPENING THE PROPOSED STAIRS LOCATED IN THE SOUTHEAST QUADRANT AND CONSTRUCTED DURING PHASE I FOR PEDESTRIAN USE DURING "PHASE II" AND THE "FINAL DETOUR" PHASE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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.

SEQUENCE OF CONSTRUCTION

INITIAL DETOUR PHASE

PREPARE TO CLOSE S.R. 86 TO TRAFFIC BY ERECTING TRAFFIC CONTROL (SEE SHEET P.32 AND P.33) AND COORDINATING THE DETOUR WITH THE CITY OF PETERSBURG. AT THE SAME TIME, SHORE OR BRACE PORTIONS OF THE EXISTING BRIDGE THAT WILL BE USED TO MAINTAIN TRAFFIC. PERFORM ANY OTHER WORK THAT CAN REDUCE THE TIME REQUIRED TO DETOUR TRAFFIC. SEE SHEET NO. P.31 FOR DETOUR MAP.

WHEN CITY OF PETERSBURG FORCES HAVE COMPLETED THE DETOUR SIGNING OUTSIDE THE PROJECT AREA AND THE CONTRACTOR HAS COMPLETED ALL DETOUR SIGNING, CLOSURE SIGNING AND BARRIER PLACEMENT WITHIN THE PROJECT AREA, S.R. 86, RAMP C AND RAMP E SHALL BE CLOSED TO TRAFFIC. THIS CLOSURE SHALL BE LIMITED TO 60 CALENDAR DAYS.

WHILE THE HIGHWAY IS CLOSED PRIOR TO "PHASE I", THE FOLLOWING WORK SHALL BE COMPLETED.

- REMOVE THE PLATE GIRDER BRIDGES OVER EASTERN AVENUE AND CONRAIL.
- CONSTRUCT A TEMPORARY BRIDGE AT EACH LOCATION.
- COMPLETE SHORING AND BRACING.
- SAW CUT THE EXISTING CONCRETE BRIDGE SUPERSTRUCTURE AND PIERS AND BEGIN TO REMOVE THE SOUTH PORTION OF THE EXISTING BRIDGE.
- COMPLETE DRIVE TO #3753-55 BEECHMONT COURT.
- CONSTRUCT PAVEMENT FOR MAINTAINING TRAFFIC, AS PER PLAN, AT RAMP C AND E.
- INSTALL THE TEMPORARY TRAFFIC SIGNAL (INCLUDING THE "PREPARE TO STOP WHEN FLASHING" ADVANCE WARNING SIGN AT THE INTERSECTION OF RAMP F/CHURCH AND S.R. 86.
- ERECT TRAFFIC CONTROL AND PORTABLE CONCRETE BARRIER FOR "PHASE I" PRIOR TO OPENING RAMP C. THE SOLID, DOUBLE YELLOW CENTERLINE SHALL BE IN PLACE PRIOR TO PHASE I OPENING TO TRAFFIC.

PHASE I AND II

THE CONTRACTOR IS EXPECTED TO USE ALL MEANS POSSIBLE POSSIBLE INCLUDING, BUT NOT RESTRICTED TO, MULTIPLE SHIFTS, TWENTY-FOUR (24) HOURS PER DAY SCHEDULING SEVEN (7) DAYS A WEEK (SUBJECT TO THE RESTRICTIONS OF SECTION 910.8 OF THE CITY OF PETERSBURG MUNICIPAL CODE GOVERNING NIGHTTIME CONSTRUCTION BETWEEN THE HOURS OF 11:00 P.M. AND 7:00 A.M.), ADDITIONAL CREWS, LIGHTING FOR NIGHT WORK, MULTIPLE MATERIAL SOURCES, MULTIPLE SUBCONTRACTORS, ETC., IN ORDER TO COMPLETE PHASE 1 AND II WITHIN 120 CALENDAR DAYS. NO TIME EXTENSIONS (SEE PROPOSAL NOTE) OF THIS INTERIM COMPLETION PERIOD WILL BE CONSIDERED. FAILURE TO OPEN THE HIGHWAY TO FOUR LANE TRAFFIC WILL RESULT IN THE ASSESSMENT OF $15,000.00 LIQUIDATED DAMAGES FOR EACH CALENDAR DAY (INCLUDING WEEKENDS AND HOLIDAYS) BEYOND THE ALLOTTED TIME.

PHASE I

AFTER THE INITIAL PHASE DETOUR WORK IS COMPLETED, REOPEN S.R. 86 AND RAMPS C AND E TO TRAFFIC USING THE TEMPORARY BRIDGES AND A PORTION OF THE EXISTING BRIDGE TO MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.

COVER DETOUR SIGNS FOR RE-USE DURING THE "FINAL DETOUR" PHASE.

COMPLETE CONSTRUCTION OF THE SOUTH ONE HALF OF THE PROPOSED BRIDGE, RETAINING WALLS, TEMPORARY RETAINING WALLS AND STAIRS IN THE SE QUADRANT OF S.R. 86 AND CHURCH PLACE/RAMP F INTERSECTION.

ERECT TRAFFIC CONTROL AND PORTABLE CONCRETE BARRIER, AND ADJUST TEMPORARY TRAFFIC SIGNAL FOR "PHASE II". THE SOLID, DOUBLE YELLOW CENTERLINE SHALL BE IN PLACE PRIOR TO "PHASE II" OPENING TO TRAFFIC.

PHASE II

AFTER PHASE I WORK IS COMPLETED, RELOCATE TRAFFIC ON S.R. 86 AND RAMPS C AND E FOR "PHASE II" USING THE COMPLETED PORTION OF THE NEW STRUCTURE (MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION) AND NEW FULL DEPTH BASE COURSES ON THE RAMPS.

REMOVE THE TEMPORARY BRIDGES AND THE BALANCE OF THE EXISTING BRIDGE. COMPLETE CONSTRUCTION (EXCEPT THE GAP (SECTION OF DECK).

COMPLETE WORK ON BEECHMONT COURT.

SOME ITEMS (I.E. SANITARY) ARE NOT INCLUDED IN THE SEQUENCE, BECAUSE THEY HAVE ONLY MINOR EFFECT ON MAINTAINING TRAFFIC. THE CONTRACTOR MAY COMPLETE THIS WORK WHEN CONVENIENT DURING THE SEQUENCE OF CONSTRUCTION.

FINAL DETOUR PHASE

UNCOVER DETOUR SIGNS, SET UP CLOSURE SIGNING AND PLACE BARRIER TO CLOSE S.R. 86 AND RAMP C TO TRAFFIC. COORDINATE THE CLOSURE WITH THE CITY OF PETERSBURG, AS BEFORE. SEE SHEET P.31 FOR DETOUR MAP.

WHILE THE HIGHWAY IS CLOSED, THE FOLLOWING WORK SHALL BE CONSTRUCTED:

- CLOSE THE REMAINING GAP IN THE DECK NOT COMPLETED IN "PHASE I AND II".
- COMPLETE THE PLACEMENT OF FULL DEPTH PAVEMENT BASE COURSES.

REMOVE TRAFFIC SIGNAL FOR MAINTAINING TRAFFIC.

THIS CLOSURE WILL BE LIMITED TO FIVE DAYS, TWO OF WHICH SHALL BE SATURDAY AND SUNDAY.

FAILURE TO RE-OPEN ON TIME WILL RESULT IN THE ASSESSMENT OF $25,000.00 LIQUIDATED DAMAGES FOR EACH CALENDAR DAY (INCLUDING WEEKENDS AND HOLIDAYS) BEYOND THE ALLOTTED TIME.

PRIOR TO OPENING THE PROJECT TO TRAFFIC, THE SOLID, DOUBLE YELLOW CENTERLINE SHALL BE IN PLACE AND MAINTAINED DURING SURFACE AND INTERMEDIATE PAVEMENT COURSE PLACEMENT OPERATIONS NOT COMPLETED IN THE "FINAL DETOUR" PHASE.

AFTER THE "FINAL DETOUR" PHASE, IT MAY BE NECESSARY TO REDUCE THE NUMBER OF LANES TO LESS THAN FOUR IN ORDER TO COMPLETE THE PROJECT. THIS WILL BE ACCEPTABLE BUT ONLY DURING ACTUAL CONTRACTOR WORKING HOURS WITH TRAFFIC CONTROL PER APPROPRIATE STANDARD DRAWINGS. NO REDUCTION IN THE NUMBER OF THE LANES SHALL BE PERMITTED DURING PEAK HOURS, THAT BEING FROM 6:00 A.M. TO 9:00 A.M. AND FROM 3:00 P.M. TO 6:00 P.M.

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
John J. Doe
ConsulHing, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER DAM
REVIEWER JAG 01/17/25
PROJECT ID 130601
SHEET P.16 TOTAL 329

FAY-86-7.39

MODEL: SP1306-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SEQUENCE OF CONSTRUCTION

IT IS THE INTENT OF THE FOLLOWING SEQUENCE OF CONSTRUCTION TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN A MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC; THEREFORE, ALL PHASES SHALL HAVE STRICT ADHERENCE.

ALL TEMPORARY OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPENED TO TRAFFIC.

PHASE ONE

THE CONTRACTOR SHALL REPLACE THE OUTSIDE BERM WITH AN 8' SHOULDER IN THE DESIGNATED AREAS WITH TEMPORARY PAVEMENT USING A ONE LANE CLOSURE PER MT-95.30.
LANE CLOSURE PER MT-95.30.

AREAS OF SHOULDER REPLACEMENT:

EASTBOUND	WESTBOUND
50+49 to 51+28.25	1833+00 to 8+86
55+81.25 to 58+20	48+90 to 51+28.25
116+23 to 128+26	55+81.25 to 60+36
150+12 to 160+10	72+48 to 88+20.5
167+67 to 175+76.71	95+78 to 102+82
177+35.21 to 183+56	112+72 TO 126+26
	136+82 to 144+13
	172+63 to 175+76.71
	177+35.21 to 180+55

AFTER THE SHOULDER REPLACEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL THEN PERFORM THE JOINT REPAIRS IN THE FOLLOWING AREAS:

EASTBOUND AREA

A	STA. 147+97 TO STA. 150+05
B	STA. 113+12 TO STA. 115+94
C	STA. 58+26 TO STA. 63+00
D	STA. 1828+26 TO STA. 1832+61

WESTBOUND AREA

E	STA. 103+30 TO STA. 107+08
F	STA. 109+40 TO STA. 112+44
G	STA. 129+43 TO STA. 136+63
H	STA. 144+25 TO STA. 147+82

THE JOINT REPAIRS SHALL BE PERFORMED IN ALPHABETICAL ORDER ON EACH SIDE AND THE PAVEMENT WILL BE OPEN TO TRAFFIC AS SPECIFIED IN THE PLAN NOTE.

FOR ADDITIONAL PHASE I DETAILS AND QUANTITIES SEE SHEETS P.22-P.23.

PHASE TWO

THE CONTRACTOR SHALL PERFORM THE WORK ON THE INSIDE LANES, WHICH SHALL INCLUDE THE JOINT REPAIR, FULL-DEPTH PAVEMENT, BERM REPLACEMENT, AND BRIDGE REHABILITATION. THE JOINT REPAIRS SHALL BE DONE PRIOR TO THE BERM REPLACEMENT. TRAFFIC SHALL BE MAINTAINED DURING THIS PHASE PER THE DETAILS SHOWN ON SHEETS P.24 THRU P.37, EXCEPT THAT

CORES WILL BE TAKEN DURING THIS PHASE WHICH WILL REQUIRE THE CLOSING OF BOTH LANES FOR A BRIEF PERIOD. ODOT WILL PROVIDE TRAFFIC MAINTENANCE FOR THE CORING PRO-

PHASE THREE

THE CONTRACTOR SHALL PERFORM THE WORK ON THE OUTSIDE LANES, WHICH SHALL INCLUDE THE JOINT REPAIR, FULL-DEPTH PAVEMENT, BERM REPLACEMENT, AND BRIDGE REHABILITATION. THE JOINT REPAIRS SHALL BE DONE PRIOR TO THE BERM REPLACEMENT. TRAFFIC MAINTENANCE DETAILS FOR THIS PHASE ARE SHOWN ON SHEETS P.38 THRU P.52.

PHASE FOUR

THE CONTRACTOR SHALL GRIND AND SEAL THE PAVEMENT MAINTAINING TRAFFIC BY USE OF A ONE-LANE CLOSURE PER STANDARD DRAWING MT-95.30. THIS WORK SHALL BE PERFORMED ON BOTH LANES AND IN BOTH DIRECTIONS.

BRIDGES

WEST RIVER ROAD AND VERMILION ROAD BRIDGES WILL BE CONSTRUCTED PART-WIDTH USING A TEMPORARY SIGNAL INSTALLATION TO MAINTAIN ONE LANE, TWO-WAY TRAFFIC. DETAILS FOR MAINTAINING TRAFFIC AT THESE BRIDGES ARE SHOWN ON SHEETS P.53 AND P.54. SUNNYSIDE ROAD AND CLAUS ROAD BRIDGES MAY BE CLOSED FOR A MAXIMUM OF 30 DAYS EACH. BUT THEY SHALL NOT BE CLOSED AT THE SAME TIME. THE DETOUR PLAN FOR THESE BRIDGES IS SHOWN ON SHEETS P.19 AND P.20. DETAILS FOR THE VERMILION INTERCHANGE BRIDGE CLOSURE ARE SHOWN ON SHEET P.21.

SIDE ROAD STRUCTURES OVER FREEWAY

FOUR LANE, TWO WAY TRAFFIC ON THE FREEWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE REHABILITATION OF THE EXISTING STRUCTURES OVER THE FREEWAY, EXCEPT AS FOLLOWS:

1. DURING THE RETROFITTING OF THE EXISTING OVERHEAD PARAPETS.
2. UNLESS OTHERWISE SHOWN IN THE PLAN.

A SAFETY NET OR PLATFORM SHALL BE REQUIRED TO PROTECT TO THE TRAVEL LANES OF THE FREEWAY DURING RETROFITTING OF EXISTING CONCRETE PARAPETS. THE DESIGN OF THE NET OR PLATFORM SHALL CONFORM WITH OSHA REQUIREMENTS, SHALL HAVE APPROVAL FROM THE ODOT OFFICE OF STRUCTURAL ENGINEERING, AND SHALL REMAIN IN PLACE UNTIL WORK HAS BEEN COMPLETED. THE EXISTING VERTICAL CLEARANCE OVER THE FREEWAY SHALL BE MAINTAINED AT ALL TIMES.

IN THE EVENT A LANE RESTRICTION ON THE FREEWAY IS NECESSARY, THE METHOD OF INSTALLATION AND DESIGN OF TEMPORARY AND DESIGN OF TEMPORARY LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING MT-95.30. COST FOR THE ABOVE WORK SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN ITEM 614, MAINTAINING TRAFFIC.

FREEWAY STRUCTURES OVER SIDE ROADS

TWO LANE, TWO WAY TRAFFIC ON SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES DURING REPLACEMENT OF BEARINGS AND REHABILITATION OF MAINLINE BRIDGES, EXCEPT DURING THE FOLLOWING OPERATIONS:

1.) DEMOLITION OF THE EXISTING BRIDGE PARAPETS.

2.) CONSTRUCTION OF THE PROPOSED PARAPET OVER THE LOCAL ROAD OR STATE ROUTE WHERE THE ENGINEER BELIEVES TEMPORARY CLOSURE OF A TRAFFIC LANE IS WARRANTED.

A SAFETY NET OR PLATFORM SHALL BE REQUIRED TO PROTECT THE UNDERPASS ROADWAY DURING REMOVAL OF EXISTING AND CONSTRUCTION OF NEW CONCRETE PARAPETS. THE DESIGN OF THE NET OR PLATFORM SHALL CONFORM WITH OSHA REQUIREMENTS, SHALL HAVE APPROVAL FROM THE ODOT OFFICE OF STRUCTURAL ENGINEERING, AND SHALL REMAIN IN PLACE UNTIL WORK HAS BEEN COMPLETED. THE EXISTING VERTICAL CLEARANCE OVER THE UNDERPASS ROADWAY SHALL BE MAINTAINED AT ALL TIMES. IN THE EVENT A LANE RESTRICTION IS NECESSARY, THE METHOD OF INSTALLATION AND DESIGN OF THE TEMPORARY LANE CLOSURE SHALLCONFORM TO STANDARD DRAWINGS MT-95.30 OR MT-97.10. COST FOR THE ABOVE WORK SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN

THE PAVEMENT BUILDUP SHALL BE:

6" - ITEM 301, ASPHALT CONCRETE BASE, PG64-22
4" - ITEM 304, AGGREGATE BASE

PAYMENT SHALL INCLUDE ANY ADDITIONAL COST OF ITEM 203, EXCAVATION TO PLACE THE ITEM 301 OR ITEM 304. THE PAVEMENT FOR MAINTAINING TRAFFIC SHALL BE REMOVED UNDER ITEM 203.

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN

THE PAVEMENT BUILDUP SHALL BE:

6" - ITEM 301, ASPHALT CONCRETE BASE, PG64-22
4" - ITEM 304, AGGREGATE BASE.

PAYMENT SHALL INCLUDE ANY ADDITIONAL COST OF ITEM 203, EXCAVATION TO PLACE THE ITEM 301 OR ITEM 304. THE SUBGRADE SHALL BE COMPACTED TO A DEPTH OF 12" ACCORDING TO THE CONSTRUCTION AND MATERIALS SPECIFICATION, SECTION 204.03 AND PAYMENT FOR SUCH WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 204, SUBGRADE COMPACTION (SEE SHEETS P.148 THRU P.151 FOR QUANTITIES). THIS PAVEMENT SHALL REMAIN IN PLACE.

NOTICE OF CLOSURE SIGNS

THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND BESIDE OF THE ROAD/RAMP FACING TRAFFIC AND SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY

PERMANENT SIGNS. THE SIGNS SHOULD BE ERECTED ALONG ROADWAYS AT THE POINT OF CLOSURE. THE SIGNS MAY BE ANYWHERE ALONG RAMPS WHERE THEY ARE VISIBLE TO THE MOTORIST USING THE RAMP, EXCEPT THAT ON ENTRANCE RAMPS, THE SIGNS SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTION TO THE MOTORIST.

PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS, INCLUDING SUPPORTS.



W20-H14-60

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
John J. Doe
Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER MTG
REVIEWER CJM 01/17/25
PROJECT ID 130602
SHEET P.17 TOTAL 267

WOO-96-16.21

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MAINTENANCE OF TRAFFIC DETOUR MAP

1

DETOUR

M4-8-24

722

M1-5-30-3

2

DETOUR

M4-8-24

722

M1-5-30-3

M5-1R-21

3

DETOUR

M4-8-24

722

M1-5-30-3

M5-1L-21

4

DETOUR

M4-8-24

722

M1-5-30-3

M6-1-21

5

DETOUR

M4-8-24

722

M1-5-30-3

M6-1-21

6

ROAD CLOSED
LOCAL TRAFFIC ONLY

R11-3-60

DETOUR

M4-10L-48

7

ROAD CLOSED
4 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR

M4-10R-48

8

ROAD CLOSED

R11-2-48

9

DETOUR AHEAD

W20-2-36

10

DETOUR

M4-8-24

722

M1-5-30-3

M6-3-21

11

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

A

EAST

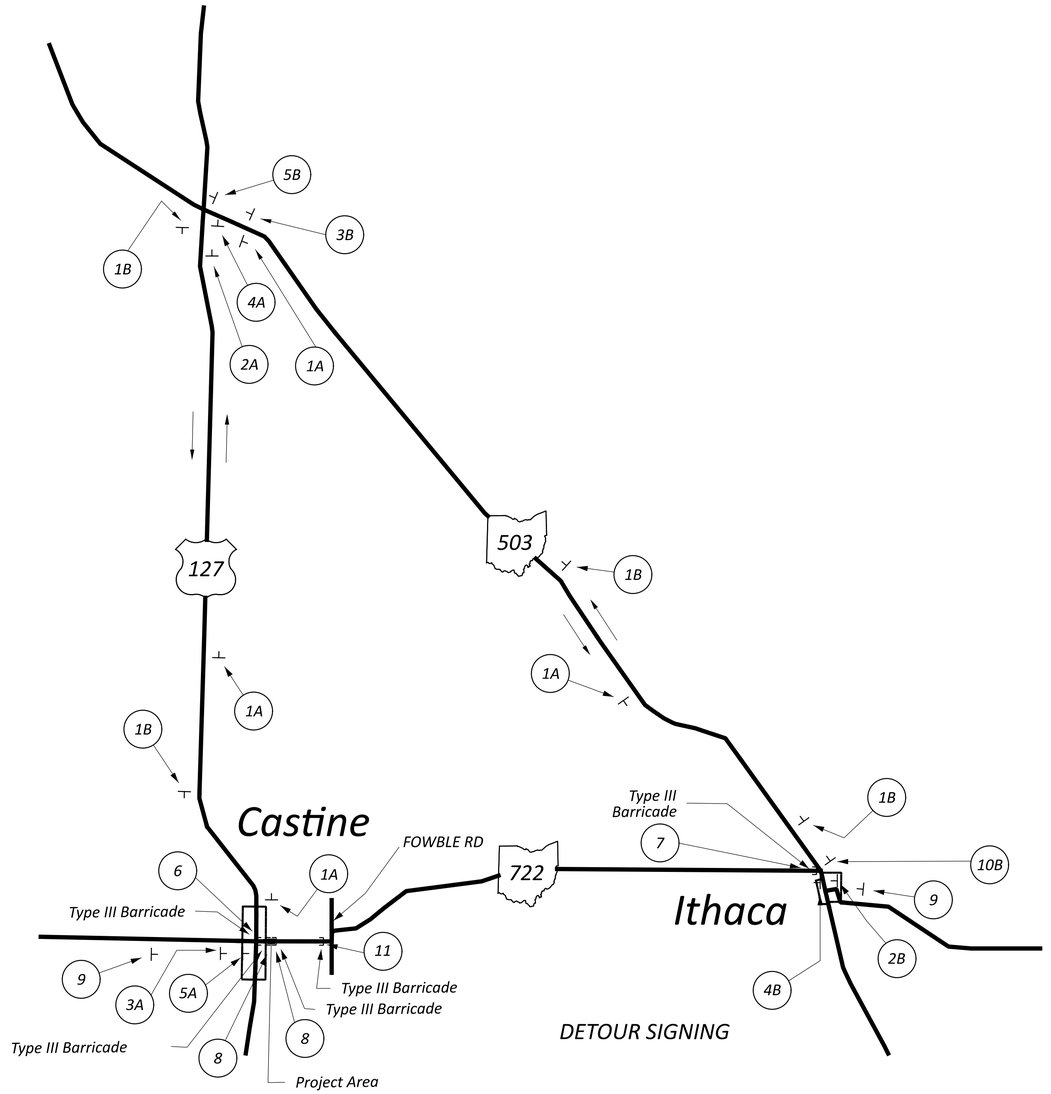
M3-2-24

B

WEST

M3-4-24

For Maintenance of Traffic Notes, see Sheet P.7.



DETOUR SIGNING

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER
MWO

REVIEWER
AMT 01/17/25

PROJECT ID
130603

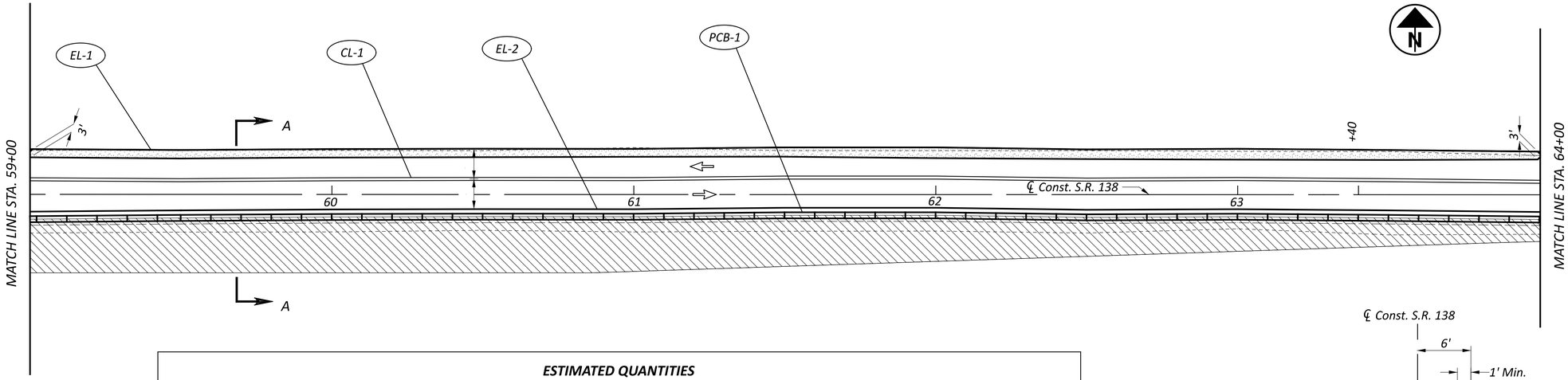
SHEET P.8 | TOTAL 34

DAR-722-6.34

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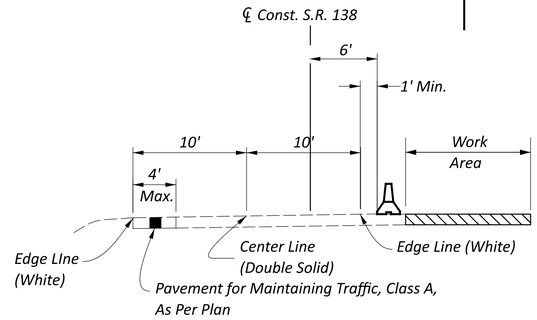
SP 1306-4(a)
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

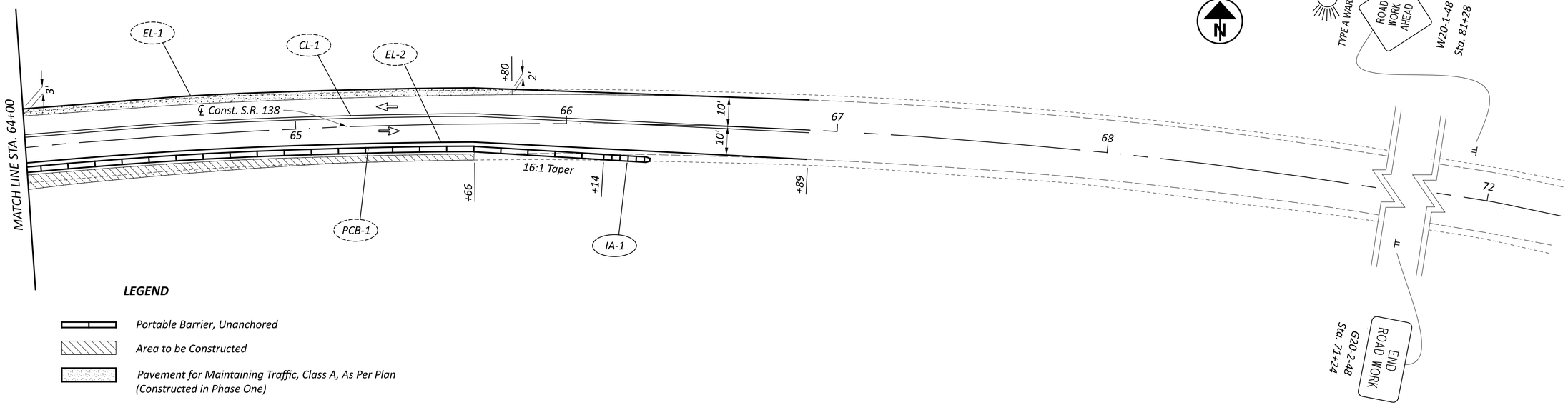


ESTIMATED QUANTITIES

REF No.	Station to Station	Side	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	614 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	614 OBJECT MARKER, TWO WAY	614 WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I (DOUBLE SOLID)	614 WORK ZONE EDGE LINE, CLASS I, 6", 704.06, TYPE I (WHITE)	622 PORTABLE BARRIER, UNANCHORED
			EACH	EACH	EACH	MILE	MILE	FT
CL-1	59+00 to 66+89	Lt.				0.15		
EL-1	59+00 to 66+89	Lt.					0.15	
EL-2	59+00 to 66+89	Rt.					0.15	
PCB-1	59+00 to 66+14	Lt.		15	15			714
IA-1	66+14 to 66+39	Lt.	1					
TOTALS CARRIED TO SUB-SUMMARY			1	15	15	0.15	0.30	714



SECTION A-A



LEGEND

- Portable Barrier, Unanchored
- Area to be Constructed
- Pavement for Maintaining Traffic, Class A, As Per Plan (Constructed in Phase One)
- Direction of Traffic

MAINTENANCE OF TRAFFIC PHASE TWO STA. 59+00 TO STA. 72+25

DESIGN AGENCY

DESIGNER DAN
REVIEWER DEK 01/17/25
PROJECT ID 130604
SHEET P.19 TOTAL 280

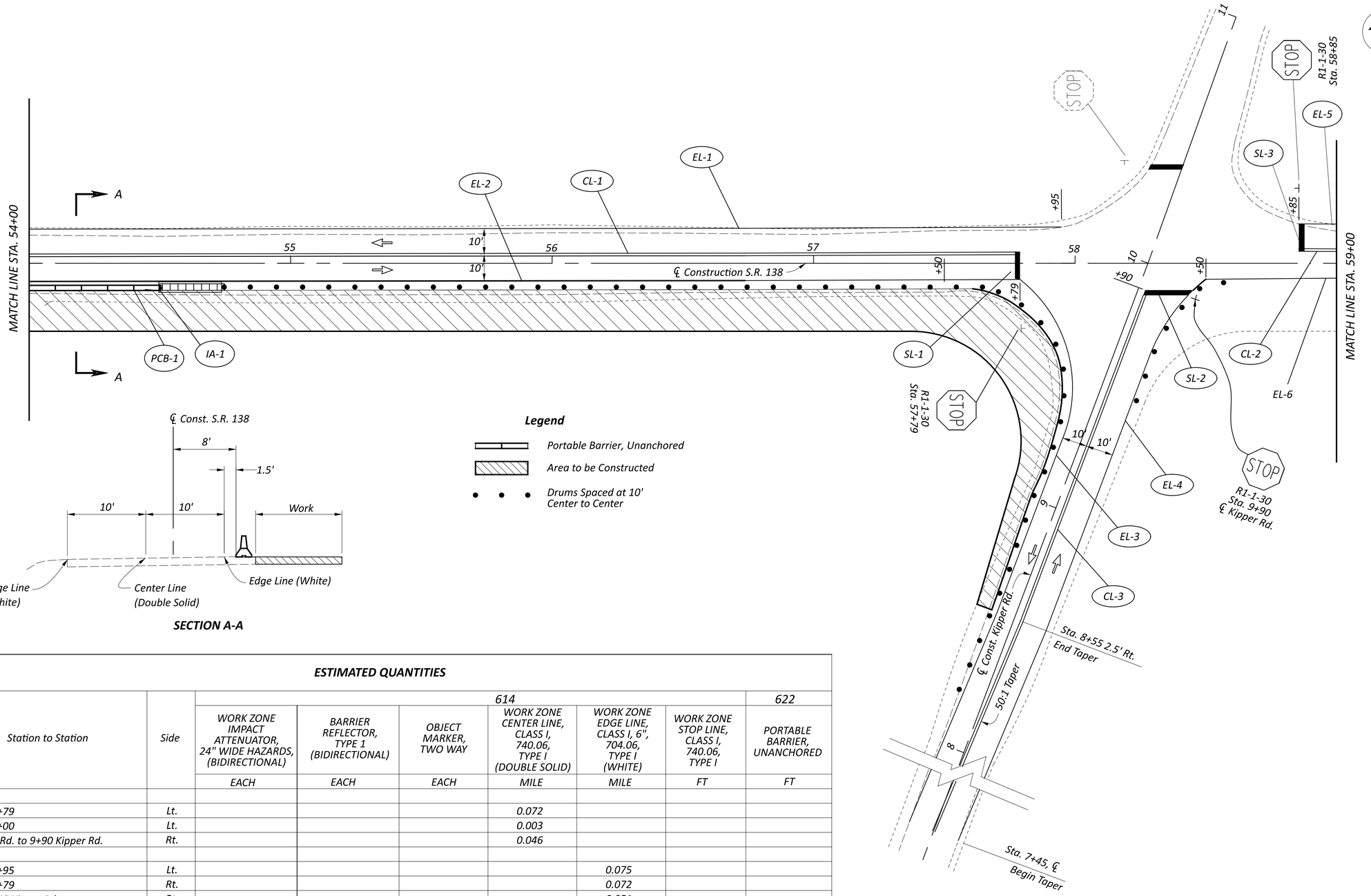
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SP 1306-4(b)
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PHASE THREE STA. 54+00 TO STA. 59+00



SECTION A-A

Legend

- Portable Barrier, Unanchored
- Area to be Constructed
- Drums Spaced at 10' Center to Center

ESTIMATED QUANTITIES

REF No.	Station to Station	Side	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	614 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	614 OBJECT MARKER, TWO WAY	614 WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I (DOUBLE SOLID)	614 WORK ZONE EDGE LINE, CLASS I, 6", 704.06, TYPE I (WHITE)	614 WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	622 PORTABLE BARRIER, UNANCHORED
			EACH	EACH	EACH	MILE	MILE	FT	FT
CL-1	54+00 to 57+79	Lt.				0.072			
CL-2	58+85 to 59+00	Lt.				0.003			
CL-3	7+45 Kipper Rd. to 9+90 Kipper Rd.	Rt.				0.046			
EL-1	54+00 to 57+95	Lt.					0.075		
EL-2	54+00 to 57+79	Rt.					0.072		
EL-3	57+79 to 7+45 Kipper Rd.	Rt.					0.051		
EL-4	7+45 Kipper Rd. to 58+50	Rt.					0.049		
EL-5	58+85 to 59+00	Lt.					0.003		
EL-6	58+50 to 59+00	Rt.					0.009		
SL-1	57+79	Rt.						15	
SL-2	9+90 Kipper Rd.	Rt.						18	
SL-3	58+85	Rt.						10	50
PCB-1	54+00 to 54+50	Rt.		2	2				
IA-1	54+50 to 54+75	Rt.	1						
TOTALS CARRIED TO SUBSUMMARY			1	2	2	0.05	0.10	43	50

DESIGN AGENCY

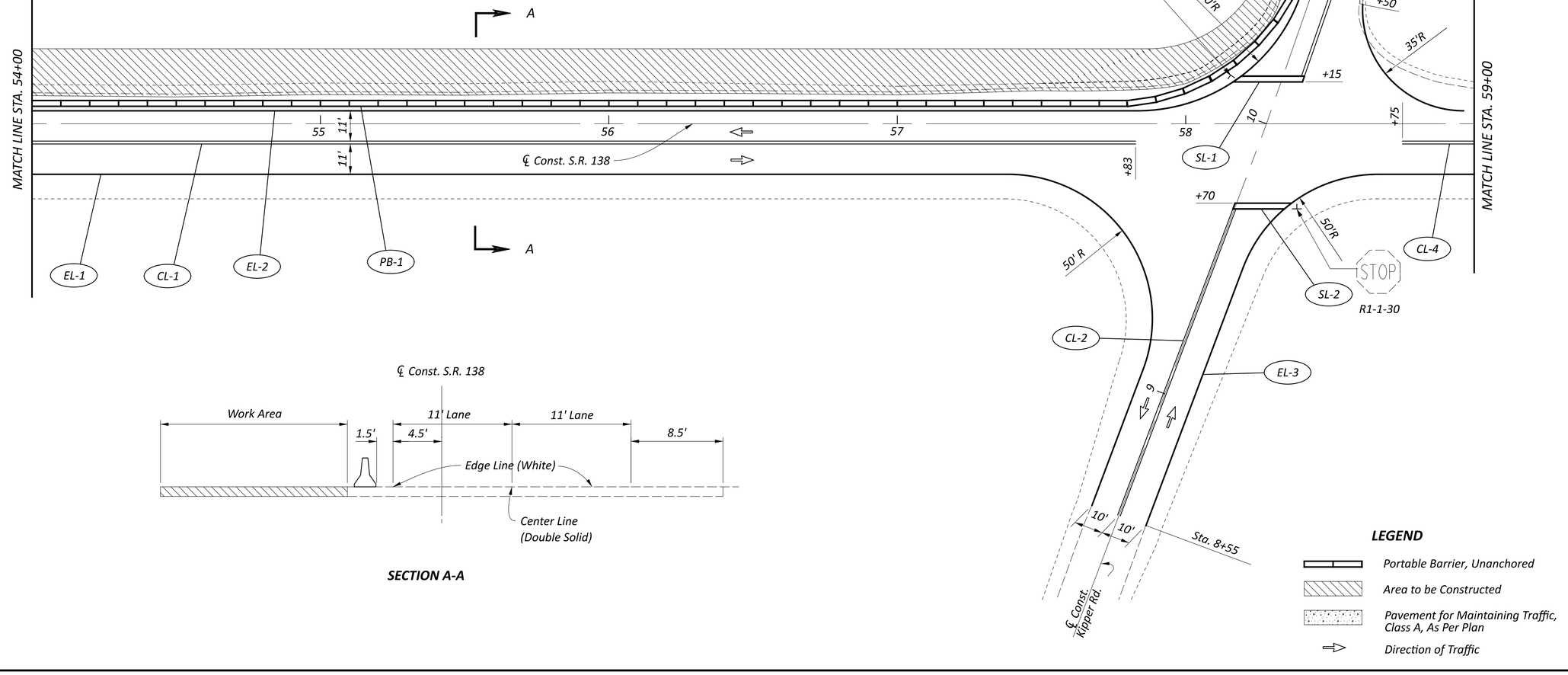
DESIGNER DAN
REVIEWER DEK 01/17/25
PROJECT ID 130604
SHEET P.25 TOTAL 280

SCI-138-11.44

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ESTIMATED QUANTITIES

REF No.	Station to Station	SIDE	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	614 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	614 OBJECT MARKER, TWO WAY	614 WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE 1 (DOUBLE SOLID)	614 WORK ZONE EDGE LINE CLASS I, 704.06, TYPE 1 (WHITE)	614 WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	622 PORTABLE BARRIER, UNANCHORED
			EACH	EACH	EACH	MILE	MILE	FT	SY	FT
CL-1	54+00 to 57+83	Rt.				0.07				
CL-2	8+55 Kipper Rd. to 9+70 Kipper Rd.	Rt.				0.02				
CL-3	10+15 Kipper Rd. to 11+45 Kipper Rd.	Lt.				0.03				
CL-4	58+75 to 59+00	Rt.				0.01				
EL-1	54+00 to 8+55 Kipper Rd	Rt.					0.09			
EL-2	54+00 to 12+00 Kipper Rd.	Lt.					0.12			
EL-3	8+55 Kipper Rd. to 59+00	Rt.					0.04			
EL-4	11+45 Kipper Rd. to 59+00	Lt.					0.03			
SL-1	10+15 Kipper Rd	Lt.						24		
SL-2	9+70 Kipper Rd.	Rt.						20		
PCB-1	54+00 to 11+48 Kipper Rd.	Lt.		11	11					578
IA-1	11+48 Kipper Rd. to 11+73 Kipper Rd.	Lt.	1							
TP-1	10+50 Kipper Rd. to 11+70 Kipper Rd.	Rt.							20	
TOTALS CARRIED TO SUBSUMMARY			1	11	11	0.13	0.28	44	20	578



SECTION A-A

LEGEND

- Portable Barrier, Unanchored
- Area to be Constructed
- Pavement for Maintaining Traffic, Class A, As Per Plan
- Direction of Traffic

HORIZONTAL SCALE IN FEET
0 10 20 40

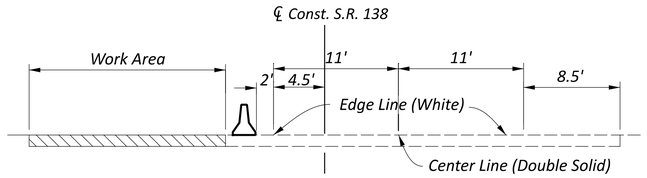
MAINTENANCE OF TRAFFIC PHASE FOUR STA. 54+00 TO STA. 59+00

DESIGN AGENCY

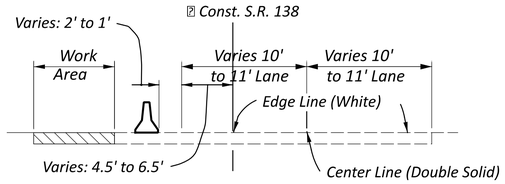
DESIGNER DAN
REVIEWER DEK 01/17/25
PROJECT ID 130604
SHEET P.37 TOTAL 280

SCI-138-11.44

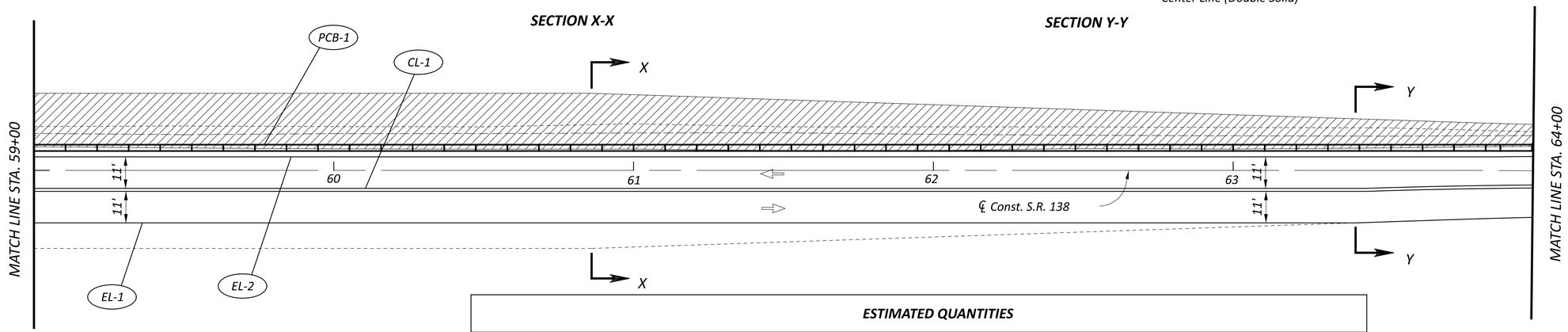
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SECTION X-X

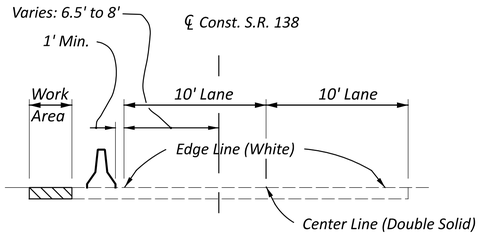


SECTION Y-Y



LEGEND

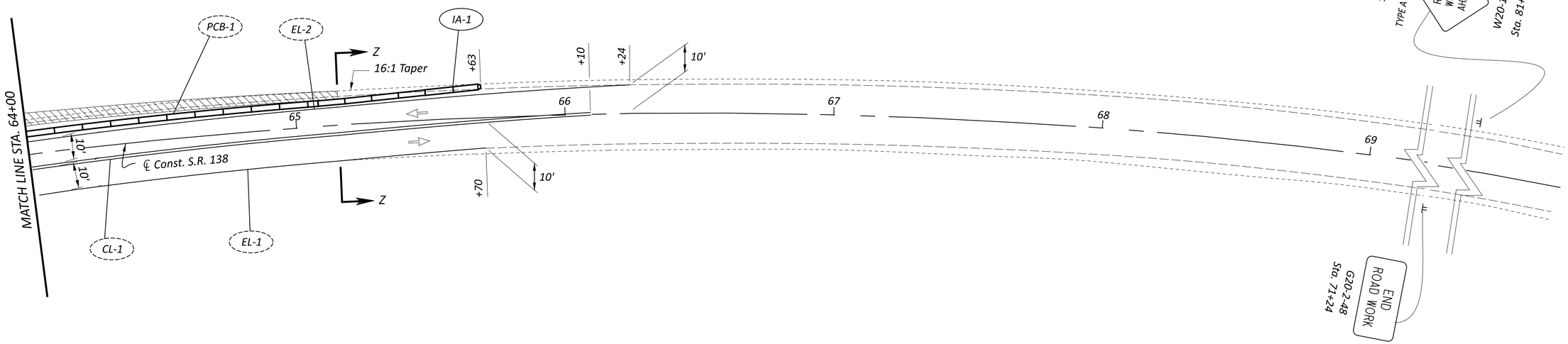
- Portable Barrier, Unanchored
- Area to be Constructed
- Direction of Traffic



SECTION Z-Z

ESTIMATED QUANTITIES

REF No.	Station to Station	SIDE	614 REMOVE AND REPLACE IMPACT ATTENUATOR (EACH)	614 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL) (EACH)	614 OBJECT MARKER, TWO WAY (EACH)	614 WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE 1 (DOUBLE SOLID) (MILE)	614 WORK ZONE EDGE LINE CLASS I, 6", 704.06, TYPE 1 (WHITE) (MILE)	622 PORTABLE BARRIER, UNANCHORED (FT)
CL-1	59+00 to 66+10	Rt.				0.13		
EL-1	59+00 to 65+70	Rt.					0.13	
EL-2	59+00 to 66+24	Lt.					0.14	
PCB-1	59+00 to 65+38	Lt.		14	14			638
IA-1	65+38 to 65+63	Lt.	1					
TOTALS CARRIED TO SUBSUMMARY			1	14	14	0.13	0.27	638



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PHASE FIVE
STA. 59+00 TO STA. 71+60

DESIGN AGENCY

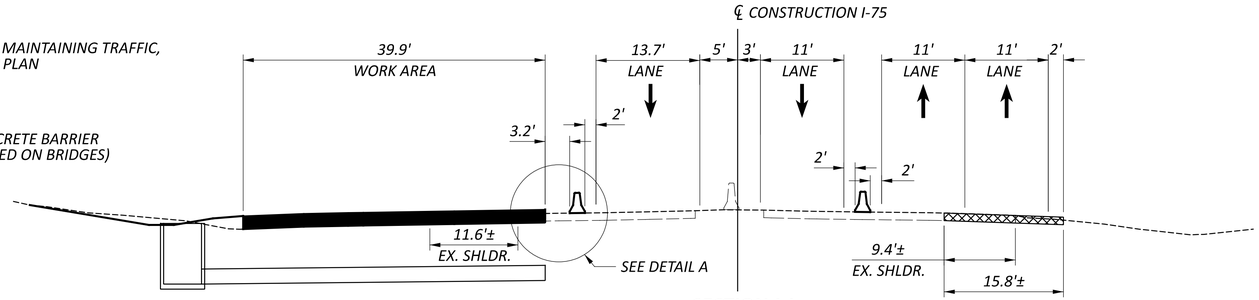
DESIGNER DAN
REVIEWER DEK 01/17/25
PROJECT ID 130604
SHEET P.44 TOTAL 208

SCI-138-11.44

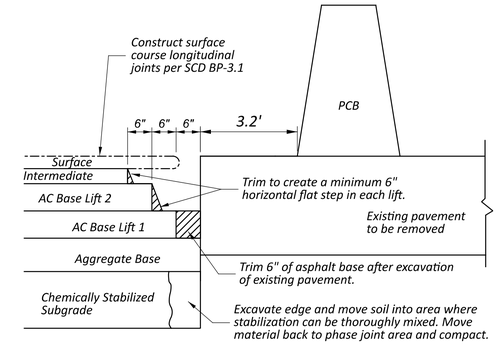
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LEGEND:

- PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
- PROPOSED
- PORTABLE CONCRETE BARRIER (TO BE ANCHORED ON BRIDGES)
- DRUMS

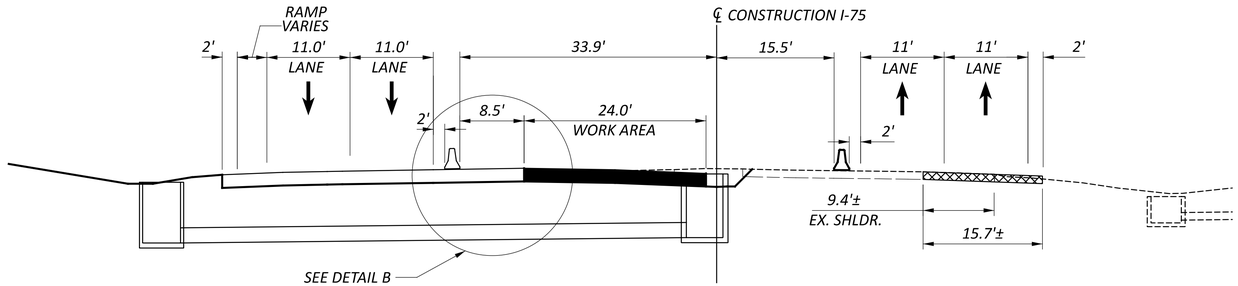


SECTION J-J
I-75B PHASE 1
STA 844+00

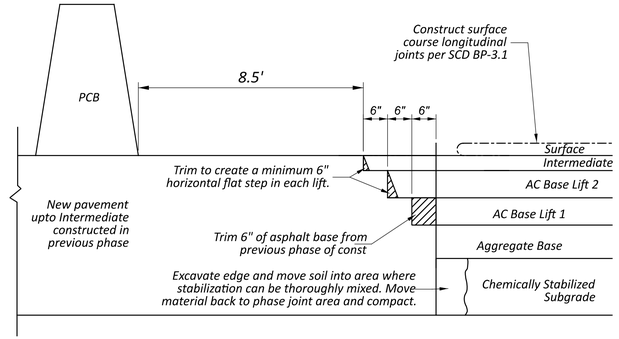


DETAIL A - ASPHALT PHASE JOINT STEP DETAIL

(NOT TO SCALE)



SECTION J-J
I-75B PHASES 2 & 3
STA 844+00

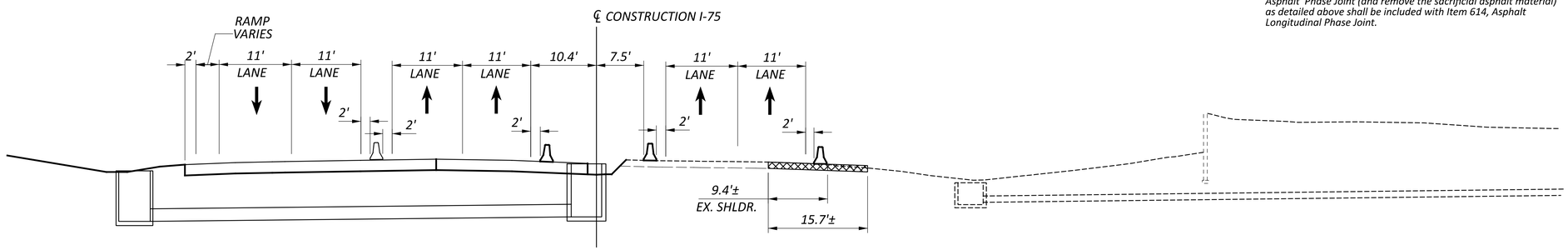


DETAIL B - ASPHALT PHASE JOINT STEP DETAIL

(NOT TO SCALE)

NOTES:

1. *Trim the edge of any newly placed lift being paved against to provide a stable and clean vertical surface to pave against.*
2. *All materials, equipment, and labor to construct the Longitudinal Asphalt Phase Joint (and remove the sacrificial asphalt material) as detailed above shall be included with Item 614, Asphalt Longitudinal Phase Joint.*



SECTION J-J
I-75B PHASES 4, 5, 6, 7 & 8
STA 844+00

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS ZONE - 75B

DESIGN AGENCY

DESIGNER: SMB
REVIEWER: EJC 01/17/25
PROJECT ID: 130604
SHEET: P.170 | TOTAL: 2087

HAN-75-14.39

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SP 1306-5

DATE: JANUARY 2025

MAINTENANCE OF TRAFFIC SUBSUMMARY

SHEET NO.	PHASE	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	614 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	614 OBJECT MARKER, TWO-WAY	614 WORK ZONE CENTER LINE, CLASS I (DOUBLE SOLID)	614 WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I (DOUBLE SOLID)	614 WORK ZONE EDGE LINE, CLASS I, 6" (WHITE)	614 WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I (WHITE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 8"	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I (YELLOW)	614 WORK ZONE STOP LINE, CLASS I, 740.06 TYPE 1	614 WORK ZONE ARROW, CLASS I		615 ROADS FOR MAINTAINING TRAFFIC	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		622 PORTABLE BARRIER, UNANCHORED						
		EACH	EACH	EACH	MILE	MILE	MILE	MILE	FT	FT	FT	EACH		LUMP	SY		FT							
P.14														LUMP										
P.15	1														100									
P.16	1														188									
P.18	2				0.08		0.04																	
P.19	2	1	15	15	0.15		0.03										714							
P.20	2	2	7	7	0.10		0.19										310							
P.21	2				0.02	0.14	0.03	0.16																
P.22	2					0.03		0.07																
P.25	3	1	2	2	0.05		0.10				43						50							
P.26	3	1	7	7	0.10		0.19										310							
P.27	3	1	6	6	0.07		0.16		49		45	2					298							
P.28	3				0.02	0.15	0.03	0.16																
P.29	3					0.03		0.07																
P.36	4				0.02		0.02																	
P.37	4	1	11	11	0.13		0.28				44				20		578							
P.38	4	1	5	5	0.12		0.19										225							
P.39	4	1	8	8	0.10	0.03	0.17				33						365							
P.40	4				0.03	0.14	0.03	0.08																
P.41	4					0.04		0.04																
P.43	5				0.04		0.02																	
P.44	5				0.19		0.13																	
P.45	5				0.11		0.19																	
P.46	5				0.15		0.15		53	350	72	4												
P.47	5				0.03	0.20	0.03	0.20		25														
TOTALS CARRIED TO GENERAL SUMMARY		9	61	61	1.51	0.76	1.98	0.78	102	375	237	6		LUMP	308		2,850							

DESIGN AGENCY

DESIGNER DAN

REVIEWER DEK 01/17/25

PROJECT ID 130605

SHEET P.36 TOTAL 280

SCI-138-11.14

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SP 1306-6
DATE: JANUARY 2025

CURVE DATA
P.I. Sta. 4+50.00, ℄ Temp. Rd.
Δ = 4° 42' 00" LT
D_C = 4° 42' 00"
R = 1218.28'
T = 50.00'
L = 100.00'
E = 1.03'
e_{max} = 0.040

CURVE DATA
P.I. Sta. 5+83.56, ℄ Temp. Rd.
Δ = 27° 03' 36" LT
D_C = 16° 30' 00"
R = 347.25'
T = 83.56'
L = 164.00'
E = 9.91'
e_{max} = 0.040

CURVE DATA
P.I. Sta. 7+48.31, ℄ Temp. Rd.
Δ = 27° 17' 40" RT
D_C = 16° 30' 00"
R = 347.25'
T = 84.31'
L = 165.42'
E = 10.09
e_{max} = 0.040

CURVE DATA
P.I. Sta. 12+59.19, ℄ Temp. Rd.
Δ = 09° 16' 18" RT
D_C = 09° 15' 00"
R = 619.41'
T = 50.23'
L = 100.23'
E = 2.03'
e_{max} = 0.040

P.O.C. STA. 4+00.00, TEMP. RD.= STA. 44+00.00, 22.40' LT., S.R. 599

P.C.C. STA. 5+00.00, TEMP. RD.= STA. 45+00.00, 22.40' LT. S.R. 599

P.C.C. STA. 6+64.00 TEMP. RD. = STA. 46+61.99, 49.28' LT., S.R. 599

P.T. STA. 8+29.42, TEMP. RD. = STA. 48+24.03, 73.62' LT., S.R. 599

P.C. STA. 12+08.96, TEMP. RD. = STA. 52+01.63, 39.93' LT., S.R. 599

P.T. STA. 13+09.19, TEMP. RD.= STA. 52+97.99, 28.61' LT., S.R. 599

℄ CONST. TEMP. RD.

N75° 10' 22" E

N84° 26' 40" E

℄ CONST. S.R. 599

5+65 Begin Curve

MATCH LINE STA. 43+50

P.T. 45+83.91 ℄ Const. S.R. 599

P.C. 51+90.44 ℄ Const. S.R. 599

P.T. 54+03.79 ℄ Const. S.R. 599

STA. 57+95.78, ℄ Const. S.R. 599

STA. 18+10.24 ℄ Temp. Rd.

REFER TO CROSS-SECTIONS FOR SHEET PILING REQUIRED BETWEEN PROPOSED AND EXISTING CULVERTS

48" CONDUIT, TYPE B FOR DETAILS, SEE SHEET P.118

48" CONDUIT, TYPE C

NOTES:

FOR TEMPORARY ROAD TYPICAL SECTIONS AND PAVEMENT EDGE ELEVATIONS, SEE SHEET P.100.

FOR DRIVEWAY AND DRAINAGE DETAILS, SEE S.R. 599 PLAN & PROFILE, SHEET P.38.

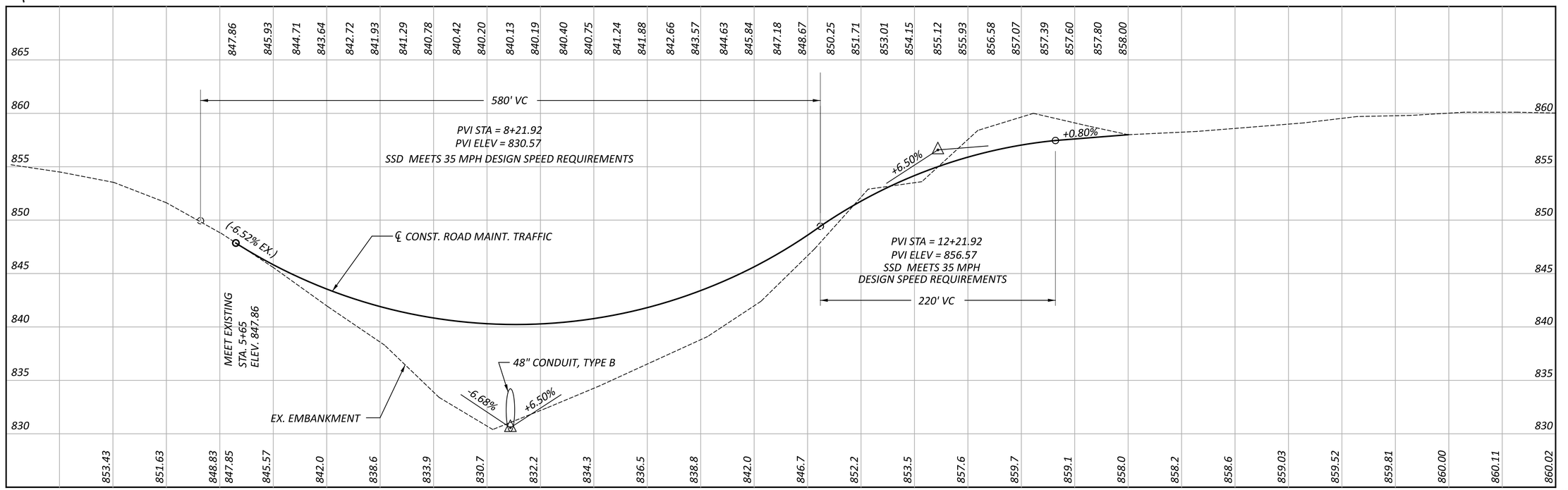
PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

PHASE IV CONSTRUCTION

DIRECTION OF TRAFFIC

HORIZONTAL SCALE IN FEET
0 25 50 100

TEMPORARY ROAD PLAN AND PROFILE



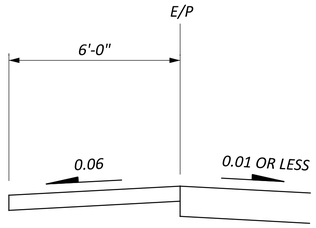
LIC-599-8.54

MODEL: SP1306-6 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1306-6.dgn

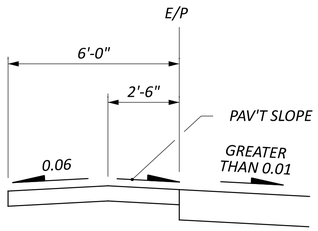
DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER TD
REVIEWER NEM 01/17/25
PROJECT ID 130606
SHEET P.99 TOTAL 131

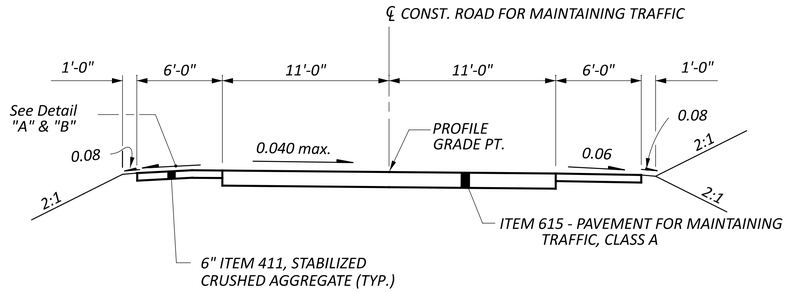
ROAD FOR MAINTAINING TRAFFIC PAVEMENT EDGE ELEVATIONS		
11' LEFT	**STATION**	**11' RIGHT**
MEET EXISTING	5+65	MEET EXISTING
846.84	5+75	847.72
845.60	6+00	846.23
844.52	6+25	844.90
843.57	6+50	843.71
842.75	6+75	842.67
842.06	7+00	841.78
841.51	7+25	841.05
841.10	7+50	840.45
840.84	7+75	839.99
840.54	8+00	839.85
840.36	8+25	839.88
840.32	8+50	840.02
840.42	8+75	840.23
840.66	9+00	840.58
841.07	9+25	841.07
841.70	9+50	841.70
842.48	9+75	842.48
843.40	10+00	843.40
844.46	10+25	844.46
845.66	10+50	845.66
847.01	10+75	847.01
848.49	11+00	848.49
850.08	11+25	850.08
851.58	11+50	851.54
852.99	11+75	852.84
854.21	12+00	853.98
855.25	12+25	854.95
856.10	12+50	855.76
856.75	12+75	856.41
857.13	13+00	857.01
857.33	13+25	857.45
MEET TAPER SECTION	13+50	MEET TAPER SECTION



DETAIL "A"

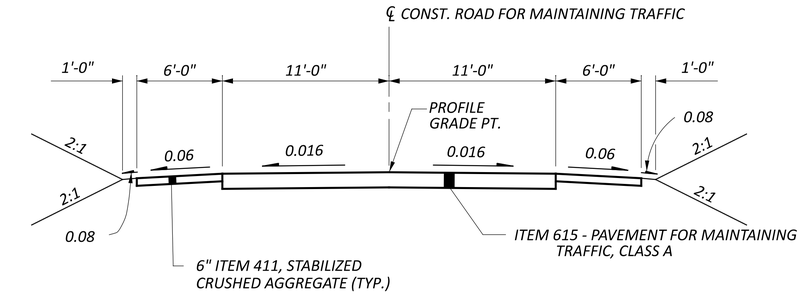


DETAIL "B"



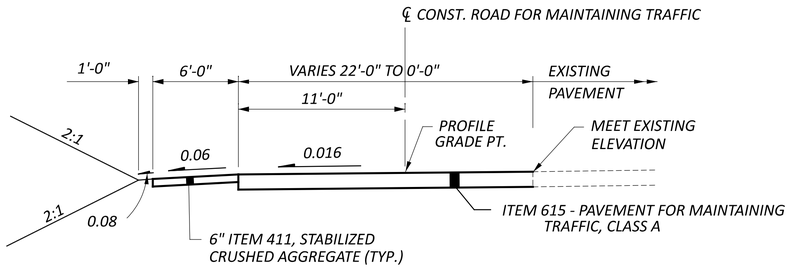
SUPERELEVATED SECTION

STA. 5+65.00 TO STA. 6+64.00
STA. 6+64.00 TO STA. 9+20.00 (OPPOSITE HAND)
STA. 11+40.00 TO STA. 13+50.00



NORMAL SECTION

STA. 9+20.00 TO STA. 11+40.00



TAPER SECTION

STA. 13+50.00 TO STA. 18+10.24

NOTE: FOR PLAN & PROFILE OF ROAD FOR MAINTAINING TRAFFIC, SEE SHEET P.99.

TEMPORARY ROAD
TYPICAL SECTIONS AND ELEVATIONS

DESIGN AGENCY

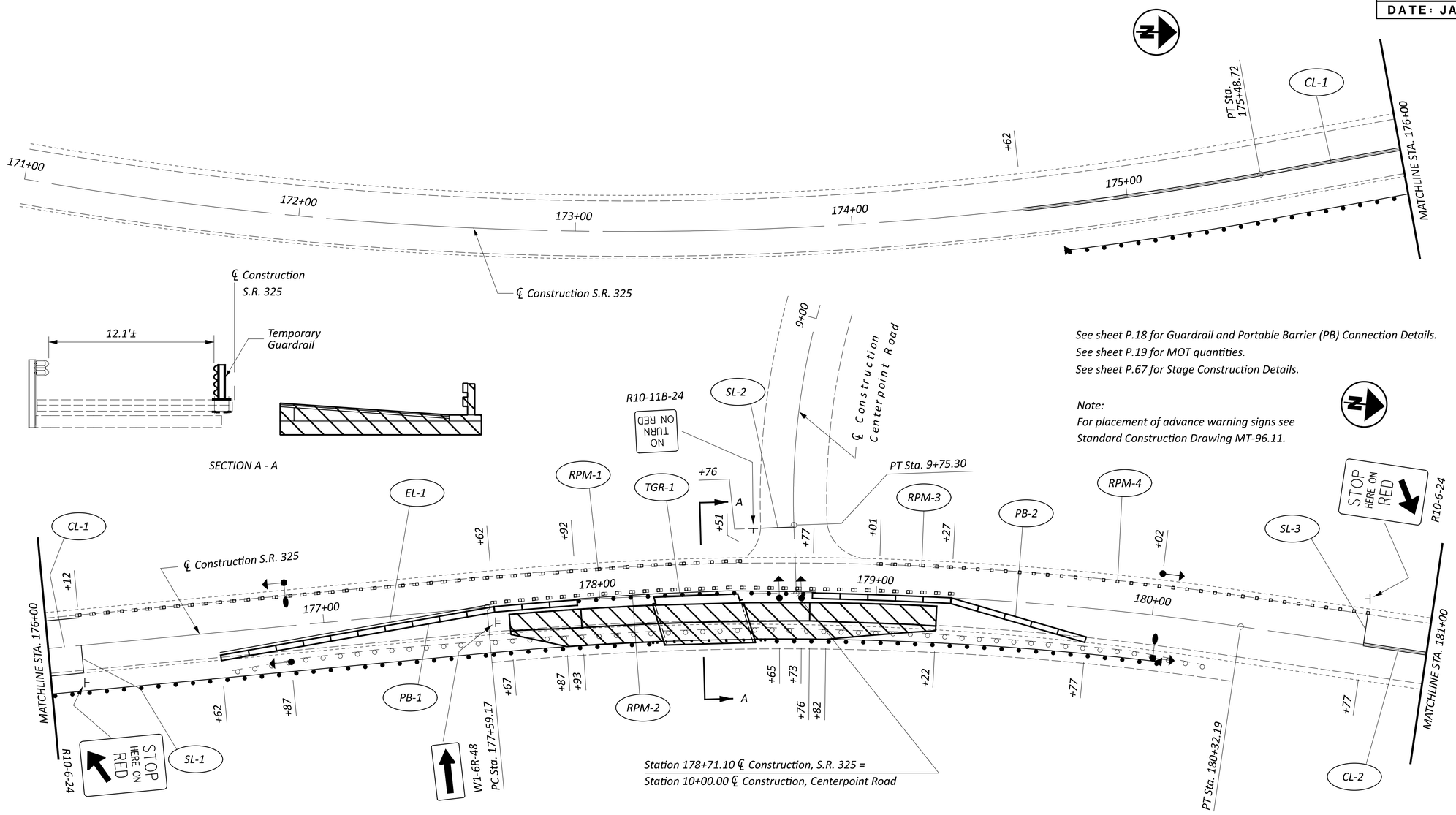
DESIGNER TD
REVIEWER NEN 01/17/25
PROJECT ID 130607
SHEET P.10 TOTAL 131

LIC-599-8.54

MODEL: SP1306-7 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1306-7.dgn

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 1
STRUCTURE 3.37 - STA. 171+00 TO STA. 181+00

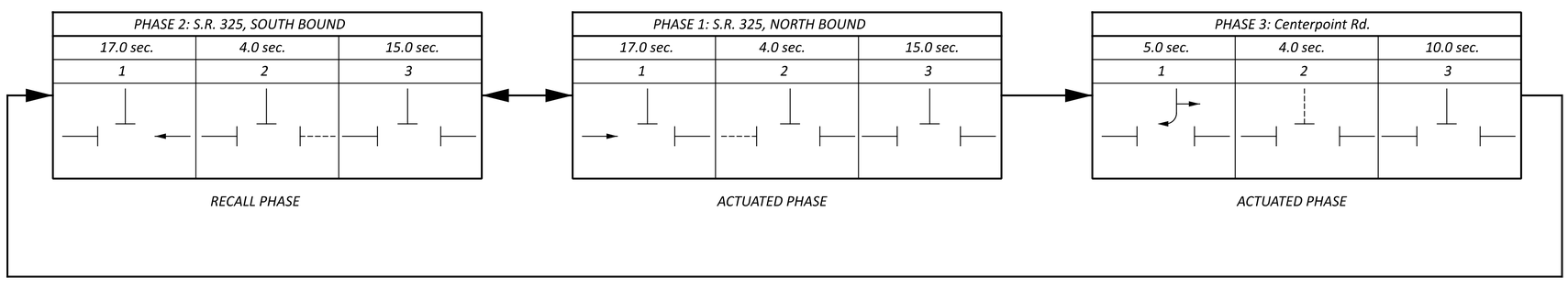


See sheet P.18 for Guardrail and Portable Barrier (PB) Connection Details.
See sheet P.19 for MOT quantities.
See sheet P.67 for Stage Construction Details.

Note:
For placement of advance warning signs see Standard Construction Drawing MT-96.11.

Legend

- 32" Concrete Barrier
- Area to be constructed



PHASE 1 - SIGNAL TIMING DIAGRAM

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER: GEO
REVIEWER: CDI 01/17/25
PROJECT ID: 130608
SHEET: P.9 TOTAL: 83

GAL-325-(3.37)(3.78)

MODEL: SP1306-8 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1306-8.dgn

SHEET NO.	202	601	611												605										
	CATCH BASIN ABANDONED	ROCK CHANNEL PROTECTION, TYPE D WITH FILTER	6" CONDUIT, TYPE B	12" CONDUIT, TYPE C	15" CONDUIT, TYPE C	21" CONDUIT, TYPE B	30" CONDUIT, TYPE B	CONDUIT, BORED OR JACKED (6", TYPE B)	6" CONDUIT, TYPE F	CATCH BASIN, NO. 4	CATCH BASIN, NO. 5, AS PER PLAN	CATCH BASIN ADJUSTED TO GRADE	CATCH BASIN RECONSTRUCTED TO GRADE	PRECAST REINFORCED CONCRETE OUTLET	4" SHALLOW PIPE UNDERDRAINS	4" UNCLASSIFIED PIPE UNDERDRAINS	4" ROCK CUT UNDERDRAINS			BENDS AND BRANCHES FOR INFORMATION ONLY 6"X45° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
	EACH	CY	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT			EACH	EACH	EACH	EACH	EACH
P.117								35	222					3	2793					3	2	1		1
P.118									42					1	4000					6	2	2		2
P.119	1				105				260	1				4	3783		267			4	2	2		
P.120									26					1	50		3947				4		2	1
P.121		23				6	6	50	180		1	1	1				4000					3	3	2
														3										
P.122								51	213			1			1660		873			2				
P.123									112						1882					1			2	
P.124									90			1			3984					3	2	2		
P.125			25						98				1		3683	283				5			1	
P.126	1								160	1				2	4071					5	2	3		
				108																				
P.127									113					1	3650	350				4				
P.128									196					4	4000					4		3		
P.129	1			107					188	1				4	4000					4		2		
P.130			25						130					1	4000					4		2		
P.131									198					4	4000					2	2	2	1	1
P.132									123					2	4000					2			2	
P.133									144					3	4000					2	2	2		1
P.134								27	171			1		3	4577					4	2	3	1	
P.135															3160					2	3			
P.135A			50						156					1	2024					2	2	2		
P.136									60					3	928							2		
P.137									26					1	836	47					2			
P.138									24					1	542	50					1		1	
P.139									40			1		2	958						2			1
P.142									56					3	1122						3			
P.143									18					1	720	50				2		1		
P.144									38					2	814						2			
P.145									38					2	1218						4			
P.146									40					2	822						2	2	1	
P.147									34					2	720						2			1
TOTALS CARRIED TO GENERAL SUMMARY	3	23	100	215	105	6	6	163	3196	3	1	5	2	56	71997	780	9087							

SP 1307-1

DATE: JANUARY 2025

DRAINAGE SUBSUMMARY

DESIGN AGENCY

DESIGNER JKP

REVIEWER FGW 01/17/25

PROJECT ID 130701

SHEET P.86 TOTAL 267

STA-6-18.84

MODEL: SP1307-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1307-1.dgn

ESTIMATED QUANTITIES

SP 1307-2

DATE: JANUARY 2025

REF NO.	STORM SEWER PROFILE SHEET NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER	202 CATCH BASIN REMOVED	601 ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	602 CONCRETE MASONRY	611 6" CONDUIT, TYPE F	611 12" CONDUIT, TYPE B	611 15" CONDUIT, TYPE C	611 18" CONDUIT, TYPE B	611 24" CONDUIT, TYPE B	611 42" CONDUIT, TYPE B, 706.02	611 CATCH BASIN, NO. 4	611 CATCH BASIN, NO. 4A	611 CATCH BASIN, NO. 5	611 CATCH BASIN, NO. 5A	605 4" SHALLOW PIPE UNDERDRAINS	670 DITCH EROSION PROTECTION	BENDS AND BRANCHES FOR INFORMATION ONLY 6"X6" TEE	6"X6" CROSS	6"X90° BEND
		FT			FT	EACH	CY	CY	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	SY	EACH	EACH	EACH
D1	P.209 & P.210	360+00	364+00	℄							400				1					125			
D2	P.210	364+00		RT							200						1			250			
D3	P.154	363+60		LT&RT						160													
D4	P.154	364+00		LT										69				1		125			
D5	P.154	364+00		℄										67		1							
D6	P.154	364+00		RT			6							4				1					
D7	P.154	364+00		LT										4									
D8	P.210	364+00	365+00	RT							100						1			197			
D9	P.210	364+00	365+35	℄							135				1					226			
D10	P.210	364+00	365+75	LT							175						1			259			
D11	P.157	368+20		℄									64		1								
D12	P.157	368+20		LT								68					1						
D13	P.157	368+20		RT			1	0.4					77				1						
D14	P.212	368+20	371+00	LT							280						1			125			
D15	P.212	368+20	371+00	℄							280				1					125			
D16	P.212	368+20	371+00	RT							280						1			125			
R1		368+00		RT	20	1																	
U1		359+90	363+97	RT					20										407				1
U2		359+90	363+97	LT					20										407				1
U3		359+90	363+97	LT					22										814		1		1
U4		359+90	363+97	RT					22										814		1		1
U5		364+03	368+18	RT					20										415		1		
U6		364+03	368+18	RT					22										830		1	1	
U7		364+03	368+18	LT					22										830		1	1	
U8		364+03	368+18	LT					20										415		1		
U9		368+22	371+00	LT					22										556		1		1
U10		368+22	371+00	RT					22										556		1		1
U11		368+22	371+00	RT					20										278				1
U12		368+22	371+00	LT					20										278				1
U13		371+00	373+50	LT															500		2		
U14		371+00	373+50	LT															250		1		
U15		371+00	373+50	RT															500		2		
U16		371+00	373+50	RT															250		1		
TOTALS CARRIED TO GENERAL SUMMARY					20	1	7	0.4	252	160	1850	68	141	144	4	1	7	2	8100	1557			

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER MTG

REVIEWER CJM 01/17/25

PROJECT ID 130702

SHEET P.82 TOTAL 488

LUC-76-31.48

MODEL: SP1307-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SHEET NUMBER															ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	11	82	83	84	85	86	87	88	89	91	105	157	255	259						
																			ROADWAY	
	LS														201	11000	LS		CLEARING AND GRUBBING	
32738															202	23000	32738	SY	PAVEMENT REMOVED	
1503															202	23500	1503	SY	WEARING COURSE REMOVED	
											1953				202	32000	1953	FT	CURB REMOVED	
											927				202	32001	927	FT	CURB REMOVED, AS PER PLAN	P.105
							12687.5								202	38000	12687.5	FT	GUARDRAIL REMOVED	
							34								202	38700	34	EACH	GUARDRAIL POST REMOVED	
						3									202	58500	3	EACH	CATCH BASIN ABANDONED	
	185	8423	20657	6224	169				188	479	153	331		2870	203	10000	39679	CY	EXCAVATION	
		1067	2189	7148	1069				225	1144	50	62			203	20000	12954	CY	EMBANKMENT	
71464															204	10000	71464	SY	SUBGRADE COMPACTION	
							11650								606	15050	11650	FT	GUARDRAIL, TYPE MGS	
							175								606	15150	175	FT	GUARDRAIL, TYPE MGS HALF POST SPACING	
							12								606	25550	12	EACH	ANCHOR ASSEMBLY, MGS TYPE A	
							12								606	26150	12	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
							23								606	26550	23	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
							36								606	35002	36	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
							4								606	35102	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
	10														623	38500	10	EACH	MONUMENT ASSEMBLY,TYPE C	
																			EROSION CONTROL	
													50		601	32200	50	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
	2														659	00100	2	EACH	SOIL ANALYSIS TEST	
	1773														659	00300	1773	CY	TOPSOIL	
	15970														659	10000	15970	SY	SEEDING AND MULCHING	
	799														659	14000	799	SY	REPAIR SEEDING AND MULCHING	
	799														659	15000	799	SY	INTER-SEEDING	
	2.23														659	20000	2.23	TON	COMMERCIAL FERTILIZER	
	3.30														659	31000	3.30	ACRE	LIME	
	86														659	35000	86	MGAL	WATER	
															832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
															832	15010	LS	EACH	STORM WATER POLLUTION PREVENTION INSPECTIONS SOFTWARE	
																			DRAINAGE	
						8680									605	05100	8680	FT	4" SHALLOW PIPE UNDERDRAINS	
						63317									605	05101	63317	FT	4" SHALLOW PIPE UNDERDRAINS, AS PER PLAN	P.116
						3196									611	01500	3196	FT	6" CONDUIT, TYPE F	
						215									611	04600	215	FT	12" CONDUIT, TYPE C	
						105									611	06100	105	FT	15" CONDUIT, TYPE C, 706.02	
						246									611	08900	246	FT	21" CONDUIT, TYPE B, 706.02	
						138									611	11700	138	FT	27" CONDUIT, TYPE A, 706.02; OR 30", 707.01	
						350									611	27001	350	FT	78" CONDUIT, TYPE A, AS PER PLAN, 706.02	P.116
						96									611	52500	96	FT	24" X 38" CONDUIT, TYPE A, 706.04	
						183									611	96600	183	FT	CONDUIT, BORED OR JACKED (6", TYPE B)	
						3									611	98230	3	EACH	CATCH BASIN, NO. 4	
						1									611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.116
						4									611	98630	4	EACH	CATCH BASIN ADJUSTED TO GRADE	

SP 1307-3(a)
DATE: JANUARY 2025

GENERAL SUMMARY

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER
JKP

REVIEWER
FGW 01/17/25

PROJECT ID
130703

SHEET P.79 TOTAL 267

TRU-99-13.48

MODEL: SP1307-3a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SHEET NUMBER															ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS														196						
																			PAVEMENT	
312															251	01000	312	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
4140															253	01000	4140	SY	PAVEMENT REPAIR	
9005															255	10011	9005	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1, AS PER PLAN	P.16
2894															255	10161	2894	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN	P.16
34828															255	20000	34828	FT	FULL DEPTH PAVEMENT SAWING	
17759															304	20000	17759	CY	AGGREGATE BASE	
3892															305	13010	3892	SY	9" CONCRETE BASE, CLASS QC 1P	
127															407	10000	127	GAL	TACK COAT	
5813															408	10000	5813	GAL	PRIME COAT	
1029															451	14011	1029	SY	9" REINFORCED CONCRETE PAVEMENT,CLASS QC 1P,AS PER PLAN	P.12
31690															451	15011	31690	SY	10" REINFORCED CONCRETE PAVEMENT,CLASS QC 1P, AS PER PLAN	P.12
6783															452	13011	6783	SY	9" NON-REINFORCED CONCRETE PAVEMENT,CLASS QC 1P,AS PER PLAN	P.12
50342															452	19001	50342	SY	VARIABLE THICKNESS NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN	P.12
																			WATER WORK	
														3649	638	02504	3649	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, MECHANICAL JOINTS AND FITTINGS	
														2481	638	02604	2481	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, BOLTLESS-RESTRAINED JOINTS AND FITTINGS	
														2107	638	02700	2107	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 55, BALL AND SOCKET JOINTS AND FITTINGS	
														1142	638	02730	1142	FT	12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900 DR18	
														1608	638	02800	1608	FT	12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, ASTM SDR 26	
														438	638	04800	438	FT	¾" COPPER SERVICE BRANCH	
														464	638	05300	464	FT	¾" POLYETHYLENE SERVICE BRANCH	
														212	638	06704	212	FT	20" STEEL PIPE ENCASEMENT, OPEN CUT	
														310	638	07310	310	FT	24" STEEL PIPE ENCASEMENT, BORED OR JACKED	
														18	638	08100	18	EACH	12" GATE VALVE AND VALVE BOX	
														16	638	09200	16	EACH	12" CUTTING-IN SLEEVE, VALVE AND VALVE BOX	
														12	638	09700	12	EACH	12" X 6" TAPPING SLEEVE, VALVE AND VALVE BOX	
														36	638	10200	36	EACH	6" FIRE HYDRANT	
														10	638	10300	10	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE	
														8	638	10500	8	EACH	FIRE HYDRANT REMOVED AND RESET	
														8	638	10600	8	EACH	FIRE HYDRANT AND GATE VALVE REMOVED AND RESET	
														12	638	10800	12	EACH	VALVE BOX ADJUSTED TO GRADE	
														6	638	10900	6	EACH	SERVICE BOX ADJUSTED TO GRADE	
														4	638	11100	4	EACH	METER AND CHAMBER REMOVED AND RESET	

SP 1307-3(b)
DATE: JANUARY 2025

GENERAL SUMMARY

TRU-99-13.48

MODEL: SP1307-3b PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN AGENCY

DESIGNER JKP

REVIEWER FGW 01/17/25

PROJECT ID 130703

SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		16		18		23		55		192	262							SP 1307-3(c) DATE: JANUARY 2025	
																		RETAINING WALLS (WALL 1) OPTION A: BIN WALL	
										1710				203	20000	1710	CY	EMBANKMENT	
										3474				203	35000	3474	CY	GRANULAR EMBANKMENT	
										Ls				503	11100	Ls		COFFERDAMS AND EXCAVATION BRACING	P.108
										1124				503	21101	1124	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	P.190
										4766				SPECIAL	53050010	4766	SF	RETAINING WALL, BIN WALL	
																		RETAINING WALLS (WALL 1) OPTION B: CRIB WALL	
										1636				203	20000	1636	CY	EMBANKMENT	
										3584				203	35000	3584	CY	GRANULAR EMBANKMENT	
										LS				503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
										1150				503	21101	1150	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	P.108
										4738				SPECIAL	53050010	4738	SF	RETAINING WALL, CRIB WALL	P.190
																		BUILDING DEMOLITION	
											LS			202	56000	LS		BUILDING DEMOLISHED: PARCEL NO. 11-WD-1, 1 STORY BRICK BUILDING	
											LS			202	56000	LS		BUILDING DEMOLISHED: PARCEL NO. 13-T, 1 STORY BLOCK BUILDING	
											LS			202	56000	LS		BUILDING DEMOLISHED: PARCEL NO. 13-WL, 2 STORY BRICK BUILDING	
											LS			202	56000	LS		BUILDING DEMOLISHED: PARCEL NO. 19-T, 1 STORY METAL BUILDING	
																		STRUCTURES OVER 20 FOOT SPAN	
																		STRUCTURE TRU-99-1924 GENERAL SUMMARY	P.229
																		STRUCTURE TRU-99-2056 GENERAL SUMMARY	P.236
										878				SPECIAL	51272000	878	SY	EPOXY WATERPROOFING OVERLAY (1/4" THICK)	P.190
																		MAINTENANCE OF TRAFFIC	
		10												614	11110	10	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		5												614	12460	5	EACH	WORK ZONE MARKING SIGN	
				38										614	12470	38	EACH	WORK ZONE SPEED LIMIT SIGN	
		100												614	12500	100	EACH	REPLACEMENT SIGN	
		200												614	12600	200	EACH	REPLACEMENT DRUM	
								1528						614	12800	1528	EACH	WORK ZONE RAISED PAVEMENT MARKER	
						1201								614	13310	1201	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
		14.00												614	20300	14.00	MILE	WORK ZONE LANE LINE, CLASS I, 4", 740.06, TYPE II	
						0.11								614	21300	0.11	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE II	
		0.26												614	21700	0.26	MILE	WORK ZONE CENTER LINE, CLASS II, 740.06, TYPE II	
						4.33								614	22000	4.33	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
						7.34								614	22300	7.34	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE II	
						48								614	26600	48	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE II	
		5692												614	28600	5692	FT	WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE II	
						LS								615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
						944								615	20001	944	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	P.17
		30												616	10000	30	MGAL	WATER	
		10												616	20000	10	TON	CALCIUM CHLORIDE	
						30280								622	41101	30280	FT	PORTABLE BARRIER, UNACHORED, AS PER PLAN	P.58

GENERAL SUMMARY

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER
JKP

REVIEWER
FGW 01/17/25

PROJECT ID
130703

SHEET P.81 TOTAL 267

TRU-99-13.48

MODEL: SP1307-3c PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
10		18		25														SP 1307-3(d) DATE: JANUARY 2025	
																		ADDITIVE ALTERNATE 1: SIDEWALK	
5985														608	10000	5985	SF	4" CONCRETE WALK	
126														608	52000	126	SF	CURB RAMP	
		5												616	10000	5	MGAL	WATER	
		105												659	00300	105	CY	TOPSOIL	
		940												659	10000	940	SY	SEEDING AND MULCHING	
																		ADDITIVE ALTERNATE 2: PEDESTRIAN CROSSWALK	
				52.0										630	02100	52.0	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
				1										630	08600	1	EACH	SIGN POST REFLECTOR	
				27.8										630	80100	27.8	SF	SIGN, FLAT SHEET	
				2										630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
				2										630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
				2										631	92001	2	EACH	SIGN FLASHER ASSEMBLY, AS PER PLAN	P.5
				13										644	00500	13	FT	STOP LINE	
				200										644	00620	200	FT	CROSSWALK LINE, 12"	

SHEET NUMBER							PARTICIPATION			ALT (X)	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS		64	68	97	165	175	01/NHS/ 04/COLS	02/NHS/04	03/STR/04							
															ROADWAY	
1000								1000			202	23000	1000	SY	PAVEMENT REMOVED	
		12							12		202	58700	12	EACH	MANHOLE ABANDONED	
						225		225			202	75000	225	FT	FENCE REMOVED	
						1		1			202	75250	1	EACH	GATE REMOVED	
															ROADWAY ALTERNATES	
				500				500		X	606	98000	500	FT	GUARDRAIL, MISC.: TENSIONED CABLE (BRIFEN) (ALTERNATE 1)	P.9
				20				20		X	606	98100	20	EACH	GUARDRAIL, MISC.: TENSIONED CABLE ANCHOR TERMINAL (BRIFEN) (ALTERNATE 1)	P.9
				500				500		X	606	98000	500	FT	GUARDRAIL, MISC.: TENSIONED CABLE (TRINITY) (ALTERNATE 2)	P.9
				2				2		X	606	98100	2	EACH	GUARDRAIL, MISC.: TENSIONED CABLE ANCHOR TERMINAL (TRINITY) (ALTERNATE 2)	P.9
				500				500		X	606	98000	500	FT	GUARDRAIL, MISC.: TENSIONED CABLE (MARION STEEL) (ALTERNATE 3)	P.9
				2				2		X	606	98100	2	EACH	GUARDRAIL, MISC.: TENSIONED CABLE ANCHOR TERMINAL (MARION STEEL) (ALTERNATE 3)	P.9
															EROSION CONTROL	
					2				2		659	00100	2	EACH	SOIL ANALYSIS TEST	
					44				44		659	00300	44	CY	TOPSOIL	
					400				400		659	10000	400	SY	SEEDING AND MULCHING	
					20				20		659	14000	20	SY	REPAIR SEEDING AND MULCHING	
					20				20		659	15000	20	SY	INTER-SEEDING	
					0.05				0.05		659	20000	0.05	TON	COMMERCIAL FERTILIZER	
					0.08				0.08		659	31000	0.08	ACRE	LIME	
					2				2		659	35000	2	MGAL	WATER	
					1				1		659	40000	1	MSF	MOWING	
											832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
											832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
											832	30000	5000	EACH	EROSION CONTROL	
															PAVEMENT	
1844									1844		254	01000	1844	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1½")	
1265									1265		301	56000	1265	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
50									50		301	56100	50	CY	ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS)	
2627								986	1641		304	20000	2627	CY	AGGREGATE BASE	
5333								5333			305	12010	5333	SY	8" CONCRETE BASE, CLASS QC 1P	
5695								3647	2048		407	10000	5695	GAL	TACK COAT	
18									18		441	70500	18	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
415								226	189		442	10000	415	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	
497								268	229		442	10100	497	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)	
4000								4000			609	12000	4000	FT	COMBINATION CURB AND GUTTER, TYPE 2	
															WATER WORK	
			896				896				SPECIAL	63820184	896	FT	12" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (COL. 801)	
			14				14				SPECIAL	63820538	14	EACH	6" GATE VALVE WITH VALVE BOX (COL. 802)	
			260				260				SPECIAL	63820750	260	EACH	6" FIRE HYDRANT (COL. 809)	
			8				8				SPECIAL	63820844	8	FT	INSTALL 1½" COPPER WATER SERVICE CONNECTION (COL. 805)	
			4				4				SPECIAL	63820902	4	EACH	SERVICE BOX ADJUSTED TO GRADE (COL. 807)	
															SANITARY SEWER	
		200							200		611	00900	200	FT	6" CONDUIT, TYPE B, 706.01 OR 706.08 WITH 706.11 OR 706.12 JOINTS	
		284							284		611	02000	284	FT	8" CONDUIT, TYPE C, 706.08 WITH 706.12 JOINTS	
		273							273		611	04400	273	FT	12" CONDUIT, TYPE B, 706.03 WITH 706.11 JOINTS	
		28							28		611	05900	28	FT	15" CONDUIT, TYPE B, 706.03 WITH 706.11 JOINTS	
		230							230		611	07400	230	FT	18" CONDUIT, TYPE B, 706.03 WITH 706.11 JOINTS	
		5							5		611	99574	5	EACH	MANHOLE, NO. 3 WITH 706.11 JOINTS	
		8							8		611	99654	8	EACH	MANHOLE ADJUSTED TO GRADE	
			3						3		611	99660	3	EACH	MANHOLE RECONSTRUCTED TO GRADE	

SP 1307-4
DATE: JANUARY 2025

GENERAL SUMMARY

FRA-11-26.48

MODEL: SP1307-4 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN AGENCY

DESIGNER
DMK

REVIEWER
CML 01/17/25

PROJECT ID
130704

SHEET NUMBER								PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	87		96					01/NHS/04	02/S<2/04/ATB						
														TRAFFIC CONTROL	
	161							161		621	00100	161	EACH	RPM	
	146.5								146.5	630	02100	146.5	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
	229.8								229.8	630	03100	229.8	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
	4								4	630	79500	4	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
	96.0								96.0	630	80100	96.0	SF	SIGN, FLAT SHEET	
	11								11	630	85000	11	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	
	14								14	630	86002	14	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	3.29							2.49	0.80	644	00100	3.29	MILE	EDGE LINE, 4"	
	1.36							1.06	0.30	644	00200	1.36	MILE	LANE LINE, 4"	
	1.25							0.98	0.27	644	00300	1.25	MILE	CENTER LINE	
	1368							430	938	644	00400	1368	FT	CHANNELIZING LINE, 8"	
	146								146	644	00500	146	FT	STOP LINE	
	313								313	644	00620	313	FT	CROSSWALK LINE, 12"	
	450							180	270	644	00700	450	FT	TRANSVERSE/DIAGONAL LINE	
	24								24	644	00900	24	SF	ISLAND MARKING	
	9							2	7	644	01300	9	EACH	LANE ARROW	
	8							2	6	644	01410	8	EACH	WORD ON PAVEMENT, 96"	
														TRAFFIC SIGNALS	
			122					122		625	25400	122	FT	CONDUIT, 2", 725.04	
			180					180		625	25500	180	FT	CONDUIT, 3", 725.04	
			182					182		625	29000	182	FT	TRENCH	
			120					120		625	29400	120	FT	TRENCH IN PAVED AREA	
			2					2		625	30706	2	EACH	PULL BOX, 725.08, 24"	
			7					7		625	32000	7	EACH	GROUND ROD	
			4					4		632	04910	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 3 SECTION, 12" LENS, 1-WAY, ALUMINUM (BLACK)	
			1					1		632	04916	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 3 SECTION, 12" LENS, 2-WAY, ALUMINUM (BLACK)	
			2					2		632	05080	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 5 SECTION, 12" LENS, 1-WAY, ALUMINUM (BLACK)	
			8					8		632	25000	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
			2					2		632	27004	2	EACH	LOOP DETECTOR UNIT	
			3					3		632	27008	3	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE	
			139					139		632	30200	139	FT	MESSENGER WIRE, 7 STRAND, ⅜" DIAMETER WITH ACCESSORIES	
			823					823		632	40300	823	FT	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG	
			1168					1168		632	40500	1168	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
			100					100		632	62810	100	FT	INTERCONNECT CABLE, MISC.: INTEGRAL MESSENGER WIRE TYPE, 7 CONDUCTOR, NO. 12 AWG	P.95
			1601					1601		632	65200	1601	FT	LOOP DETECTOR LEAD-IN CABLE	
			25					25		632	67200	25	FT	POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	
			1					1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.95
			2					2		632	85000	2	EACH	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 10	
			5					5		632	89900	5	EACH	PEDESTAL, 8', TRANSFORMER BASE	
			1					1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
			1					1		633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN	P.95
			1					1		633	67100	1	EACH	CABINET FOUNDATION	
			1					1		633	67200	1	EACH	CONTROLLER WORK PAD	
			1					1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.95

SP 1307-5
DATE: JANUARY 2025

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER JKP

REVIEWER FGW 01/17/25

PROJECT ID 130705

SHEET P.36 TOTAL 108

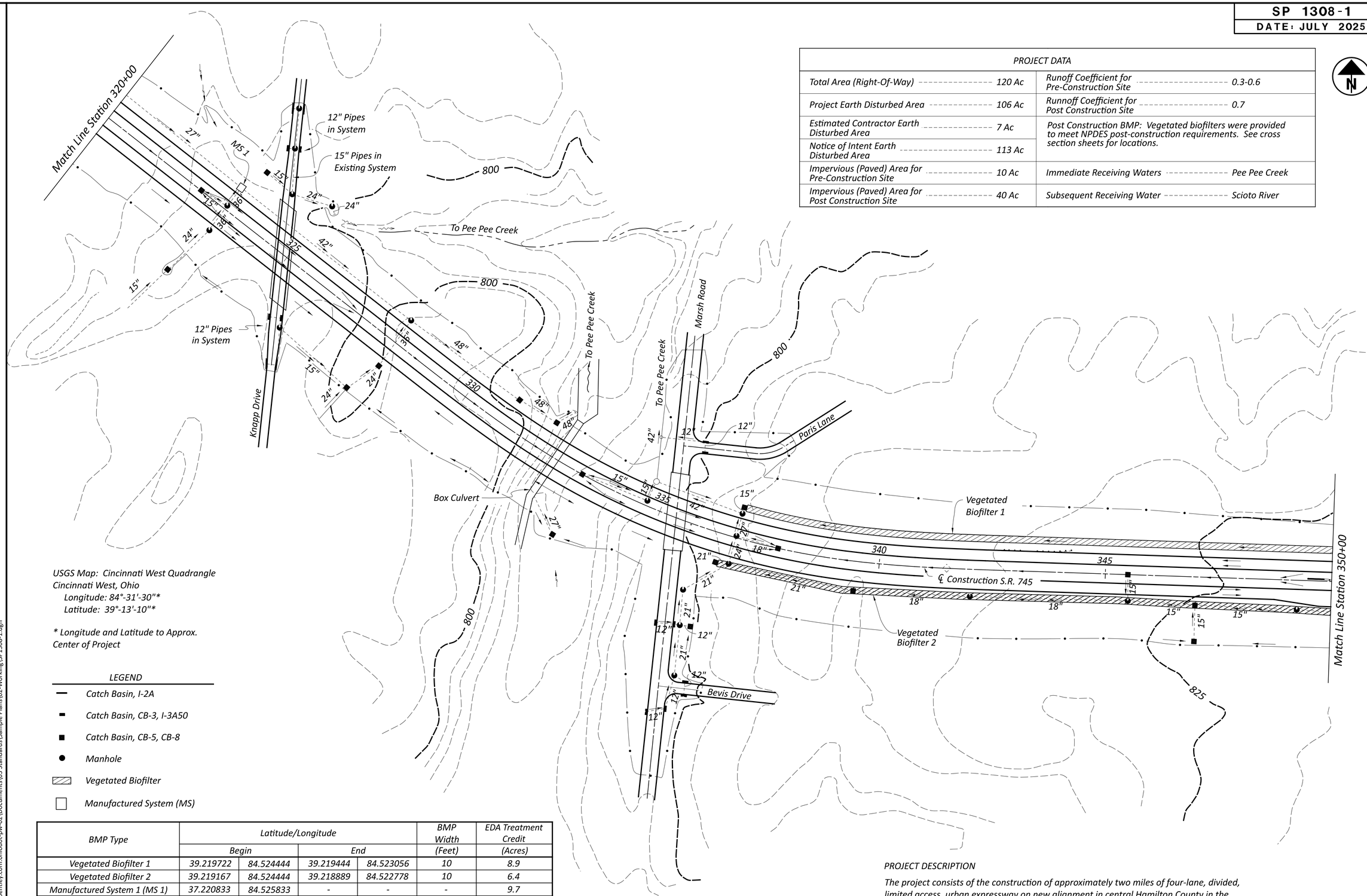
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MODEL: SP1307-5 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1308-1
DATE: JULY 2025

HORIZONTAL SCALE IN FEET
0 50 100 200

PROJECT DATA			
Total Area (Right-Of-Way)	120 Ac	Runoff Coefficient for Pre-Construction Site	0.3-0.6
Project Earth Disturbed Area	106 Ac	Runnoff Coefficient for Post Construction Site	0.7
Estimated Contractor Earth Disturbed Area	7 Ac	Post Construction BMP: Vegetated biofilters were provided to meet NPDES post-construction requirements. See cross section sheets for locations.	
Notice of Intent Earth Disturbed Area	113 Ac		
Impervious (Paved) Area for Pre-Construction Site	10 Ac	Immediate Receiving Waters	Pee Pee Creek
Impervious (Paved) Area for Post Construction Site	40 Ac	Subsequent Receiving Water	Scioto River



USGS Map: Cincinnati West Quadrangle
Cincinnati West, Ohio
*Longitude: 84°-31'-30"**
*Latitude: 39°-13'-10"**

** Longitude and Latitude to Approx. Center of Project*

LEGEND

- Catch Basin, I-2A
- Catch Basin, CB-3, I-3A50
- Catch Basin, CB-5, CB-8
- Manhole
- Vegetated Biofilter
- Manufactured System (MS)

BMP Type	Latitude/Longitude				BMP Width (Feet)	EDA Treatment Credit (Acres)
	Begin		End			
Vegetated Biofilter 1	39.219722	84.524444	39.219444	84.523056	10	8.9
Vegetated Biofilter 2	39.219167	84.524444	39.218889	84.522778	10	6.4
Manufactured System 1 (MS 1)	37.220833	84.525833	-	-	-	9.7
				Treatment Provided		25.0
				Treatment Required*		24.4

** Calculated per L&D Vol. 2, Sec. 1111.7*

PROJECT DESCRIPTION

The project consists of the construction of approximately two miles of four-lane, divided, limited access, urban expressway on new alignment in central Hamilton County in the Cincinnati Metropolition area. The highway has an east-west orientation beginning 300 feet west of Clovernoll Drive, ending 2,800 feet east of Sawmill Road. There is one interchange at Sawmill Road.

PROJECT SITE PLAN
STA. 320+00 TO STA. 350+00

DESIGN AGENCY

DESIGNER JOH
REVIEWER JDH 01/17/25
PROJECT ID 130801
SHEET P.40 TOTAL 484

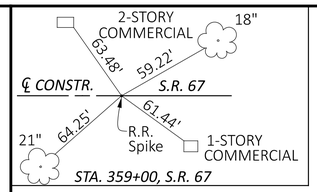
HAM-745-18.36

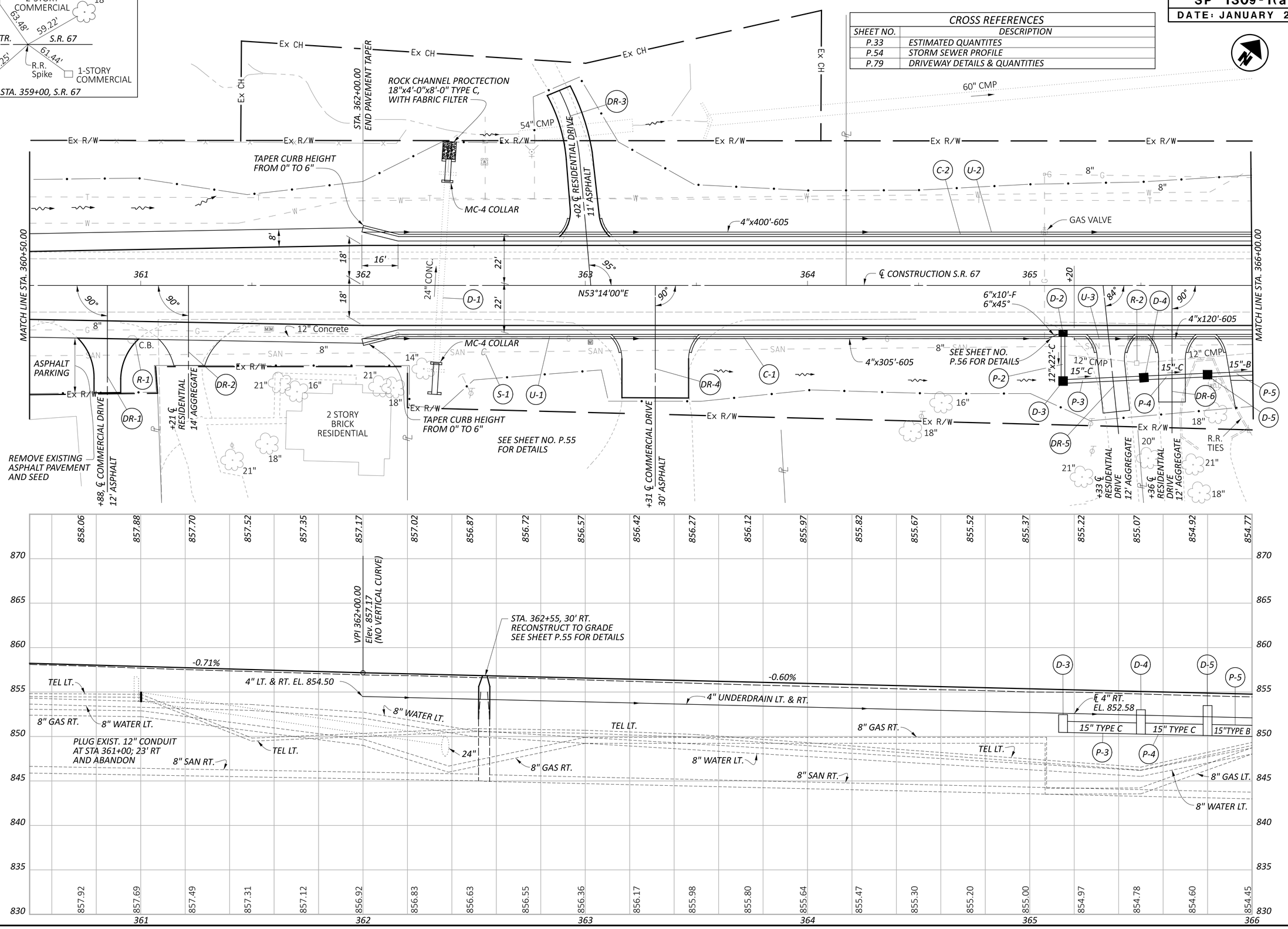
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SP 1309-1(a)
DATE: JANUARY 2025

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.33	ESTIMATED QUANTITES
P.54	STORM SEWER PROFILE
P.79	DRIVEWAY DETAILS & QUANTITIES

HORIZONTAL SCALE IN FEET
0 10 20 40





PLAN AND PROFILE - S.R. 67
STA. 360+50 TO STA. 366+000

CLI-67-16.86

MODEL: SP1309-1a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER MJG
REVIEWER DSN 01/17/25
PROJECT ID 130901
SHEET P.31 TOTAL 97

ESTIMATED QUANTITIES- STA. 360+50 TO STA 371+50

SP 1309-1(b)

DATE: JANUARY 2025

REF NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	202 CATCH BASIN REMOVED	202 PIPE REMOVED, 24" AND UNDER	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	602 CONCRETE MASONRY	611 24" CONDUIT, TYPE A, 706.02	611 15" CONDUIT, TYPE B	611 18" CONDUIT, TYPE B	611 12" CONDUIT, TYPE C	611 15" CONDUIT, TYPE C	611 6" CONDUIT, TYPE F	611 6" CONDUIT, TYPE F, AS PER PLAN	611 MANHOLE ADJUSTED TO GRADE (SANITARY)	611 MANHOLE RECONSTRUCTED TO GRADE (SANITARY)	611 CATCH BASIN, NO. 2-2B	611 CATCH BASIN, NO. 2-3	611 CATCH BASIN, NO. 3A	605 4" SHALLOW PIPE UNDERDRAINS	609 COMBINATION CURB AND GUTTER, TYPE 2	BENDS AND BRANCHES FOR INFO. ONLY 6"x45°
					EACH	FT	CY	CY	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	NO.
C-1	P.31-P.32,P.34	362+00	373+00	Rt																		1100	
C-2	P.31-P.32	362+00	366+93	Lt																		532	
C-3	P.32,P.34	367+37	371+67	Lt																		458	
R-1	P.31	360+97		Rt	1																		
R-2	P.31 & P.32	365+16	366+30	Rt	1	114																	
R-3	P.32	366+89	367+33	Rt		44																	
R-4	P.32	367+28	367+35	Rt		28																	
R-5	P.32	367+56	368+03	Rt		47																	
R-6	P.32	368+65	369+13	Rt		48																	
R-7	P.32	369+46	370+50	Rt		104																	
R-8	P.32 & P.34	370+83	372+00	Rt	1	117																	
D-1	P.31 & P.55	362+35		Lt & Rt			2	0.9	24														
D-2	P.31	365+15		Rt								22								1			
D-3	P.31	365+15	365+50	Rt									35					1					
D-4	P.31	365+50	365+80	Rt									30						1				
D-5	P.31 & P.32	365+80	366+50	Rt						70									1				
D-6	P.32	366+42	366+62	Lt								80								1			
D-7	P.32	366+50		Rt								15								1			
D-8	P.32	366+50	367+47	Rt							97								1				
D-9	P.32	367+27	367+47	Rt										25									1
D-10	P.32	367+47	368+50	Rt							103								1				
D-11	P.32	368+50		Rt								15								1			
D-12	P.32	368+50	369+32	Rt							82								1				
D-13	P.32	369+32	369+98	Rt							66								1				
D-14	P.32	369+98		Rt								15								1			
D-15	P.32	369+98	370+70	Rt							72								1				
D-16	P.32	370+70	371+45	Rt							75								1				
S-1	P.31 & P.55	362+55		Rt													1						
S-2	P.32 & P.57	366+36		Rt													1						
S-3	P.32 & P.57	369+40		Rt												1							
U-1	P.31	362+00	365+15	Rt											10						305		1
U-2	P.31 & P.32	362+00	366+42	Lt											10						432		1
U-3	P.31 & P.32	365+20	366+50	Rt											10						120		1
U-4	P.32	366+55	368+50	Rt											10						185		1
U-5	P.32	368+55	369+98	Rt											10						133		1
U-6	P.32	367+55	371+45	Lt											10						382		1
U-7	P.32 & P.34	370+03	372+00	Rt											10						187		1
TOTALS CARRIED TO GENERAL SUMMARY					3	502	2	0.9	24	70	495	147	65	25	70	1	2	1	8	5	1744	2090		

DESIGN AGENCY

John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER MJG

REVIEWER DSN 01/17/25

PROJECT ID 130901

SHEET P.33 TOTAL 97

CLI-67-16.86

MODEL: SP1309-1b PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1309-1b.dgn

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.3-P.4	℄ REFERENCES & BENCHMARKS
P.37	PROFILE
P.38	ESTIMATED QUANTITIES
P.79	DRIVE DETAILS AND QUANTITIES
P.86	CULVERT DETAIL AND QUANTITES
P.92	INTERSECTION DETAIL

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - S.R. 67
STA. 384+50 TO STA. 390+00

Ex R/W
SAN
8"
12"
15"
21"
E-5
E-9
R-20
R-21
R-22
R-23
G-6
G-7
G-8
D-12
D-13
E-4
E-6
E-7
E-8
SA
V=6.0x1.5x345.0÷27=115.0 YD³
V=6.0x1.5x185.0÷27=61.7 YD³
ROCK CHANNEL PROTECTION, TYPE C, 15" THICK, WITH FILTER
CONSTRUCTION LIMITS
WOODED AREA
EX. PAVED GUTTER
6'-0"
90" C.M.P.
72" C.M.P.
STA. 388+27.65, ℄ CONST. S.R. 67 =
STA. 10+00.00, ℄ CONST. S.R. 172
MATCH LINE STA. 384+50
MATCH LINE STA. 390+00
385
386
387
388
389
℄ CONSTRUCTION S.R. 67
N62°30'00"E
91°35'00"
N25°55'00"W
℄ CONSTRUCTION S.R. 172
CURVE DATA
P.I. = STA. 376+97.60
Δ = 09°16'00" RT
Dc = 00°28'00"
R = 12,277.67'
T = 995.03'
L = 1,985.71'
E = 40.25'
e_{max} = N.C.
A=7.5x82.0÷9=68.3 SQ. YD.
TYPE T ANCHOR ASSEMBLY
PT STA. 386+88.29
+00 8'-0"
STA. 9+30.29
BUTT END TYPE JOINT
R=50'
R=40'
R=23'
2'
11'
11'
2'
9
10
WOVEN WIRE FENCE
8' ASPHALT DRIVE
STONE POST
15" CMP
END GUARDRAIL
STA. 9+08.5±
STA. 9+06.20
CONNECT GUARDRAIL TO EXISTING
END GUARDRAIL
STA 389+95.7, 28' RT.
CEMETARY
HO
CH
A=7.5x118÷9=98.3 YD³
V=6.0x1.5x180.0÷27=60.0 YD³
V=1.5x6.0x98.0÷27=32.7 YD³

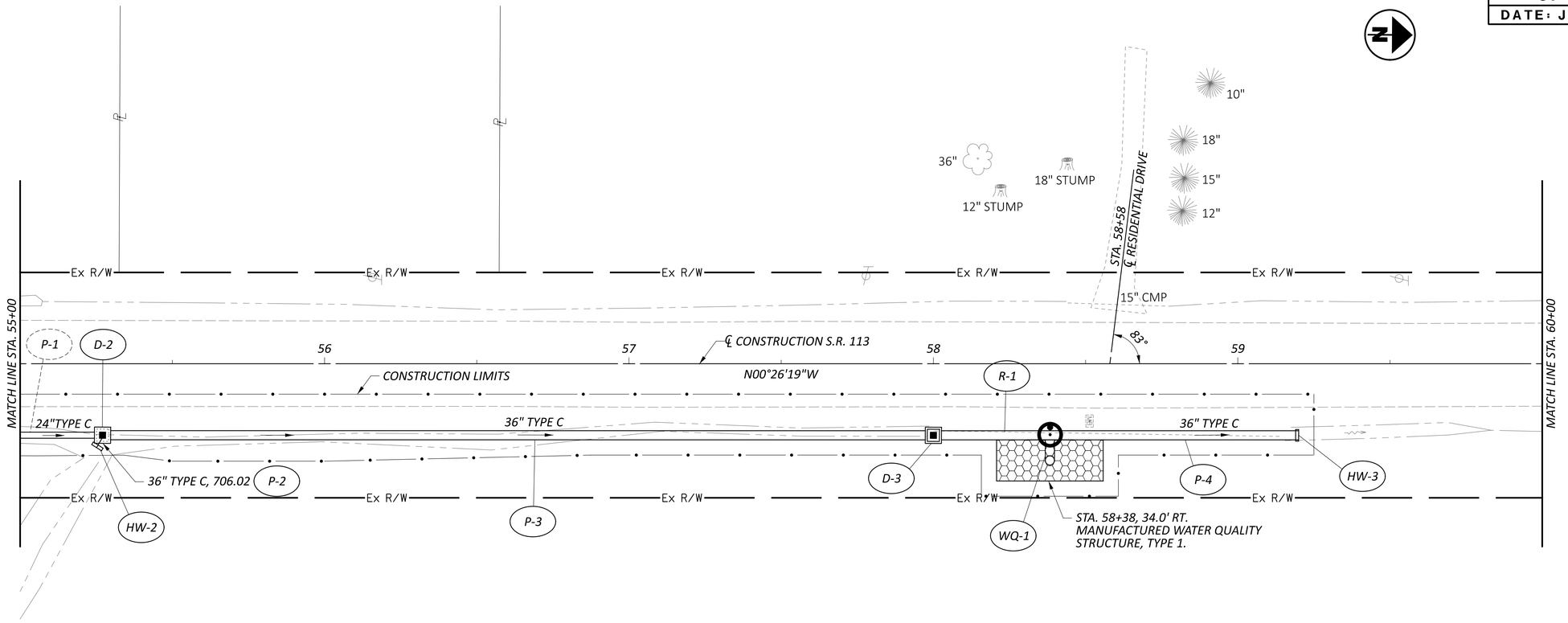
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DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

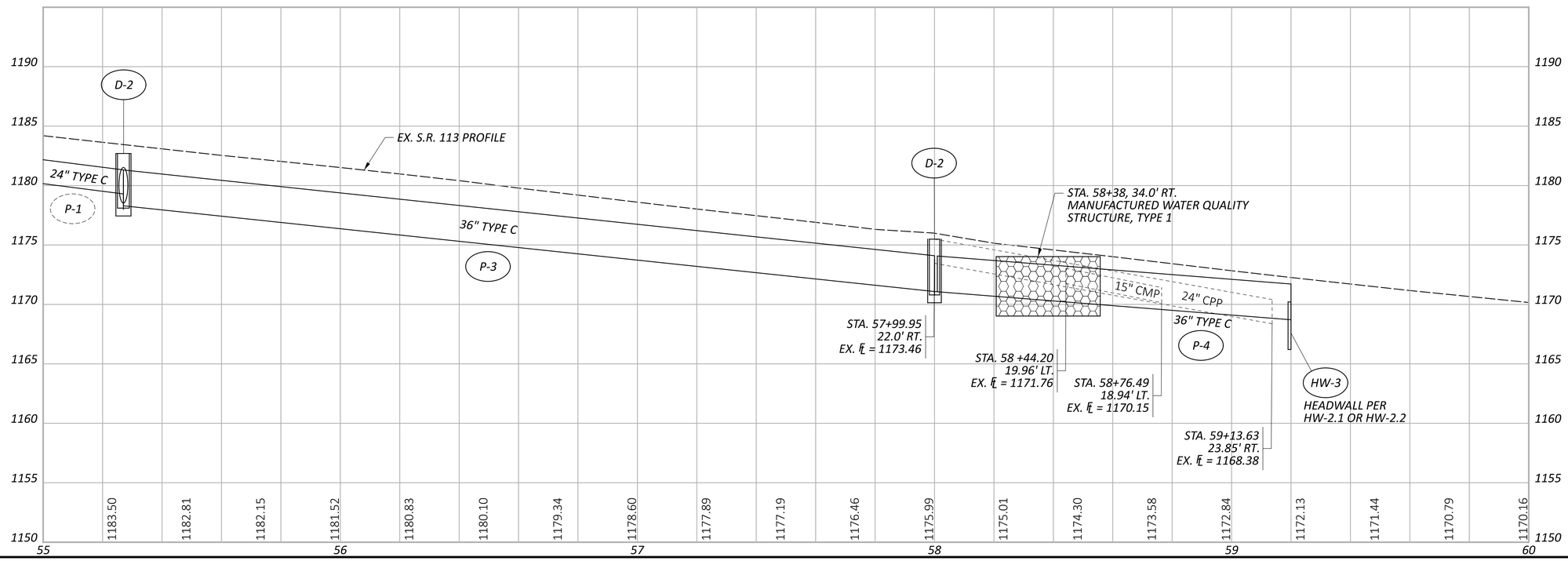
DESIGNER MJG
REVIEWER DSN 01/17/25
PROJECT ID 130902
SHEET P.36 TOTAL 97

SP 1309-3
DATE: JANUARY 2025



FOR QUANTITIES, SEE SHEET P.20.
FOR DETAILED STORM SEWER PROFILE, SEE SHEET P.65.

AREA FOR MANUFACTURED SYSTEM



HORIZONTAL SCALE IN FEET
0 10 20 40

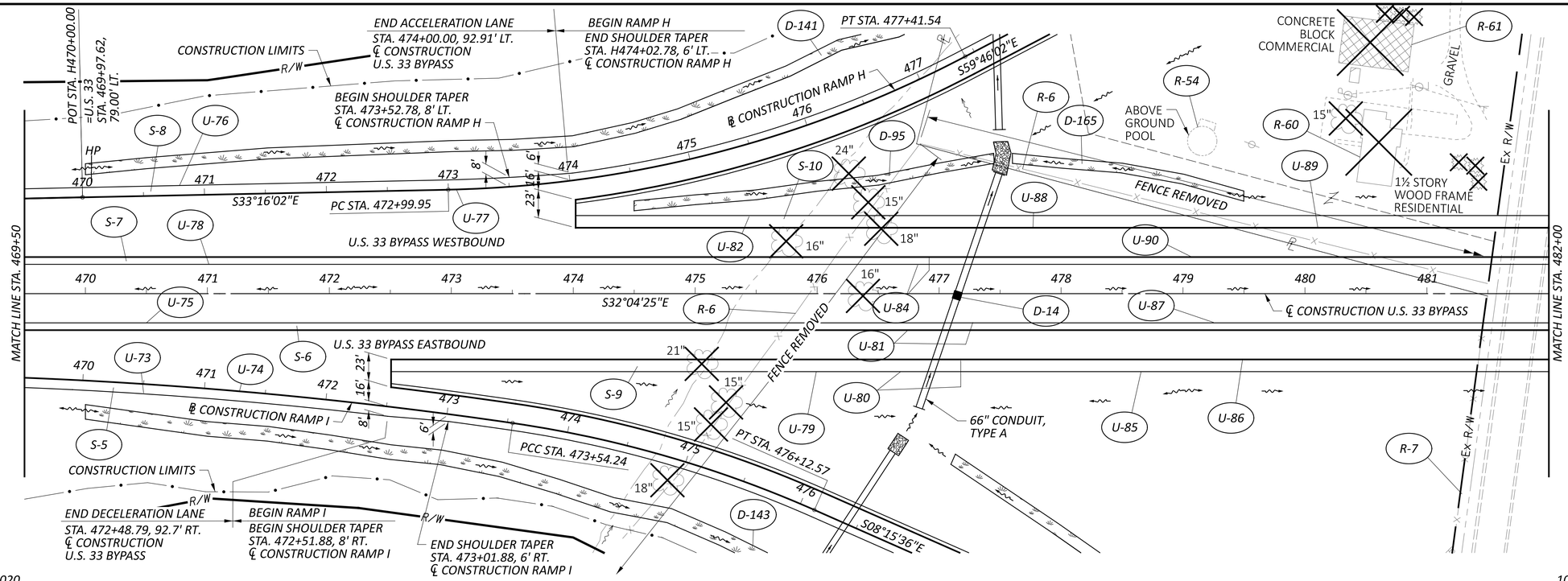
PLAN AND PROFILE - S.R. 113
STA. 55+00 TO STA. 60+00

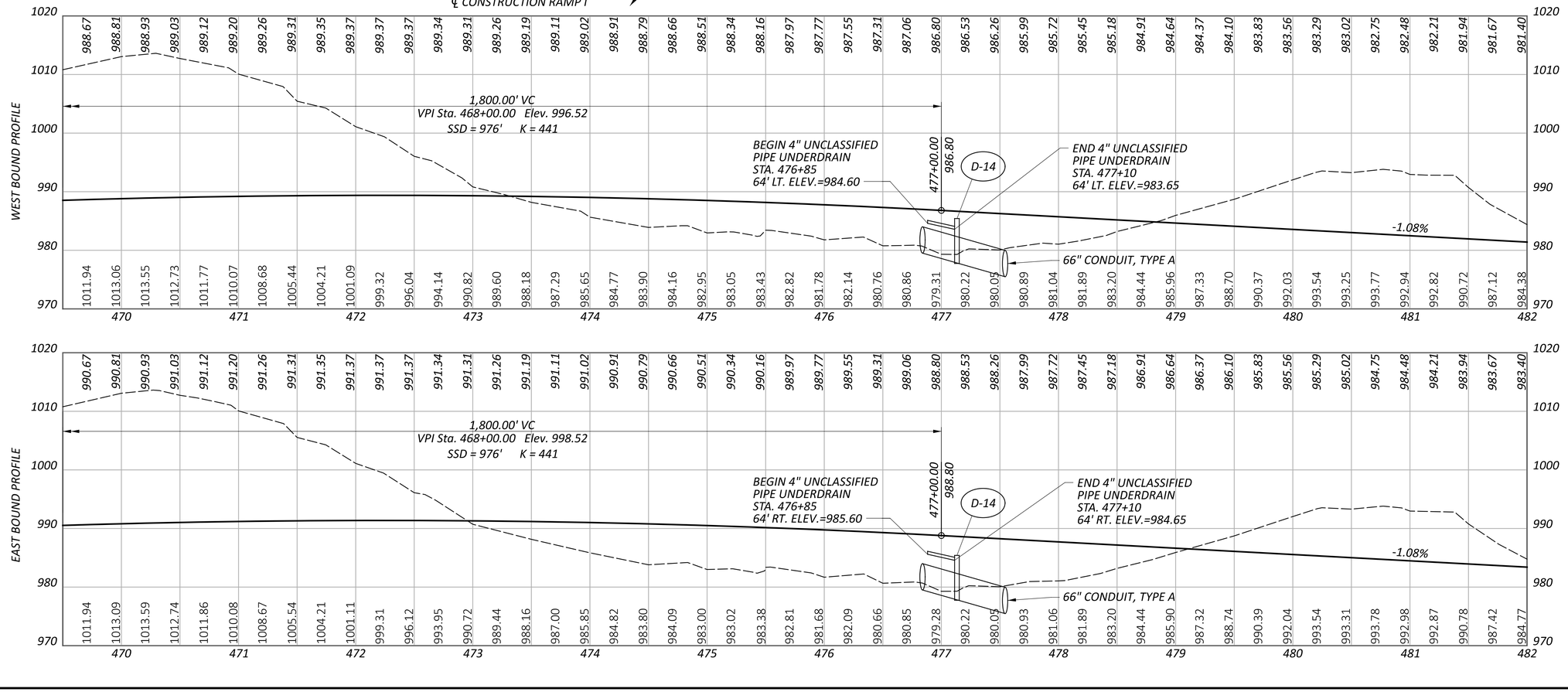
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DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER DRT
REVIEWER TGH 01/17/25
PROJECT ID 130903
SHEET P.45 TOTAL 78





SP 1309-4

DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.79	REF. MONUMENTS, ODOT #418 & #419
P.46-P.67	ESTIMATED QUANTITIES
P.360, P.368	RAMPS H & I
P.486, P.487	TERMINAL DETAIL
P.495	STORM SEWER PROFILE
P.503	CULVERT DETAILS
P.667	FENCE DETAIL

PLAN AND PROFILE - U.S. 33 BYPASS STA. 469+50 TO STA. 482+00

DESIGN AGENCY

XYZ

Planning • Engineering • Surveying

DESIGNER: CHG

REVIEWER: LJS 01/17/25

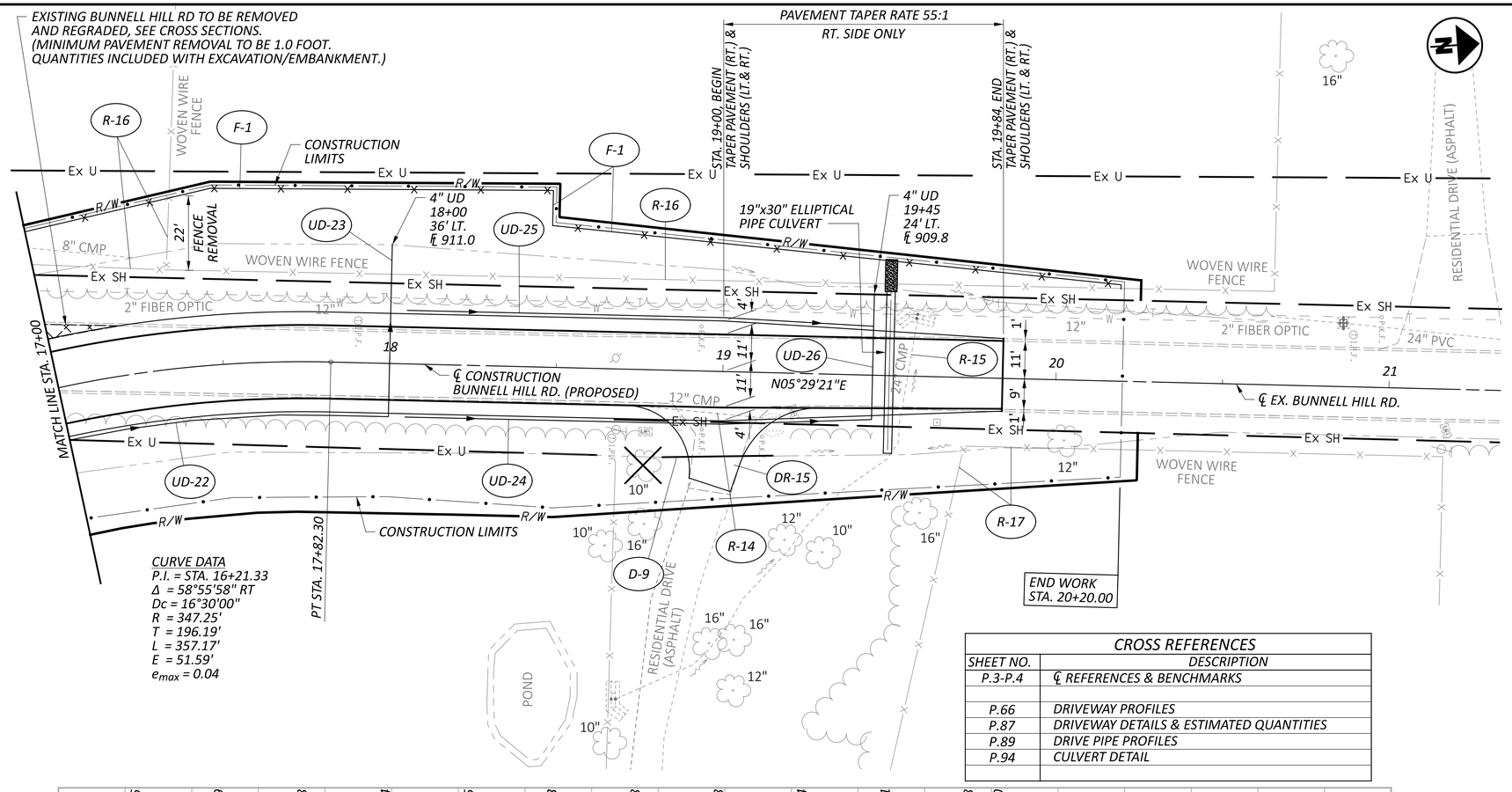
PROJECT ID: 130904

SHEET: P.93 TOTAL: 739

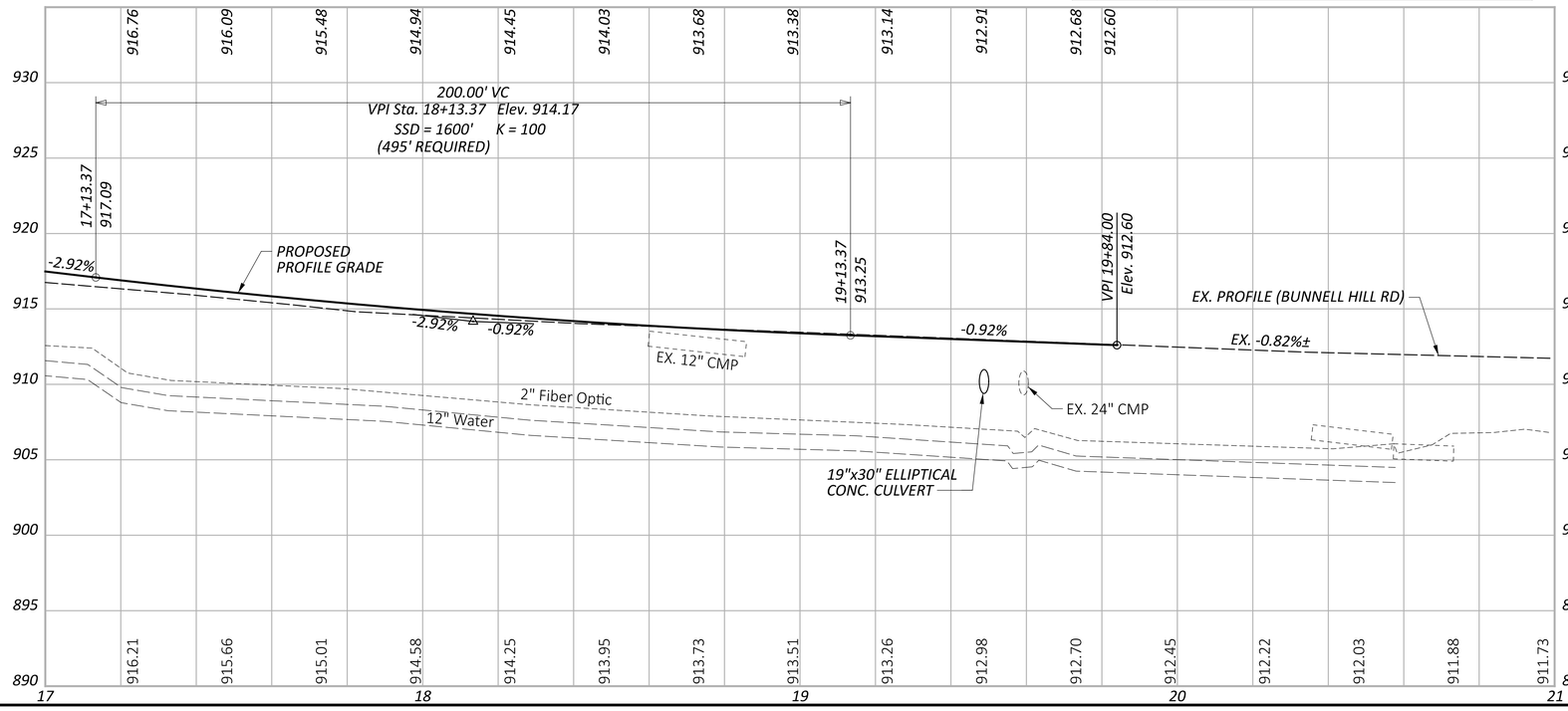
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MODEL: SP1309-4 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM

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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.3-P.4	℄ REFERENCES & BENCHMARKS
P.66	DRIVEWAY PROFILES
P.87	DRIVEWAY DETAILS & ESTIMATED QUANTITIES
P.89	DRIVE PIPE PROFILES
P.94	CULVERT DETAIL



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER (FT)	202 FENCE REMOVED (FT)	605 4" SHALLOW PIPE UNDERDRAINS (24" DEEP) (FT)	605 4" BASE PIPE UNDERDRAINS (18" DEEP) (FT)	607 FENCE, TYPE 47RA (FT)	611 12" CONDUIT, TYPE D (FT)	611 4" CONDUIT, TYPE B (FT)	611 PRECAST REINF. CONCRETE OUTLET (EACH)	BENDS & BRANCHES FOR INFO. ONLY 45° BEND	BENDS & BRANCHES FOR INFO. ONLY 90° BEND
R-14	18+86	19+20	Rt.	26									
R-15	19+52	19+55	Center	31									
R-16	16+60	20+20	Lt.		403								
R-17	19+70	20+19	Rt.		67								
UD-22	17+00	18+00	Rt.			96							
UD-23			Center										
UD-24	18+05	19+45	Rt.				140			52	1	1	
UD-25	18+05	19+45	Lt.				140			37	1		2
UD-26	19+45		Center						33				
D-9	18+83	19+17	Rt.					390					
F-1	16+62	20+19	Lt.										
TOTALS CARRIED TO GENERAL SUMMARY				57	470	96	280	390	33	89	2		

SP 1309-5
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - BUNNELL HILL RD. STA. 17+00 TO STA. 21+00

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

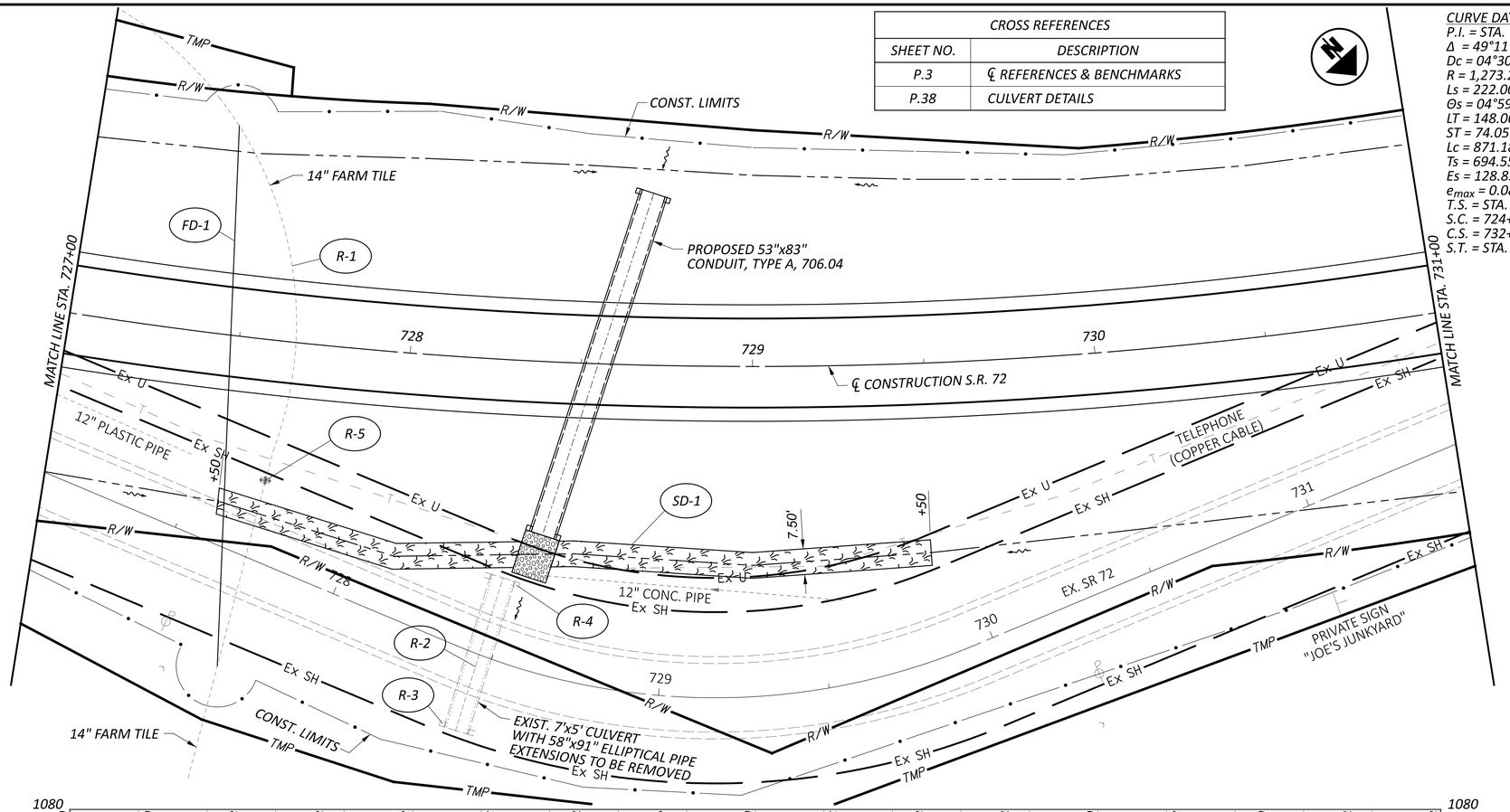
DESIGNER MSQ
REVIEWER JAD 01/17/25
PROJECT ID 130905
SHEET P.30 TOTAL 130

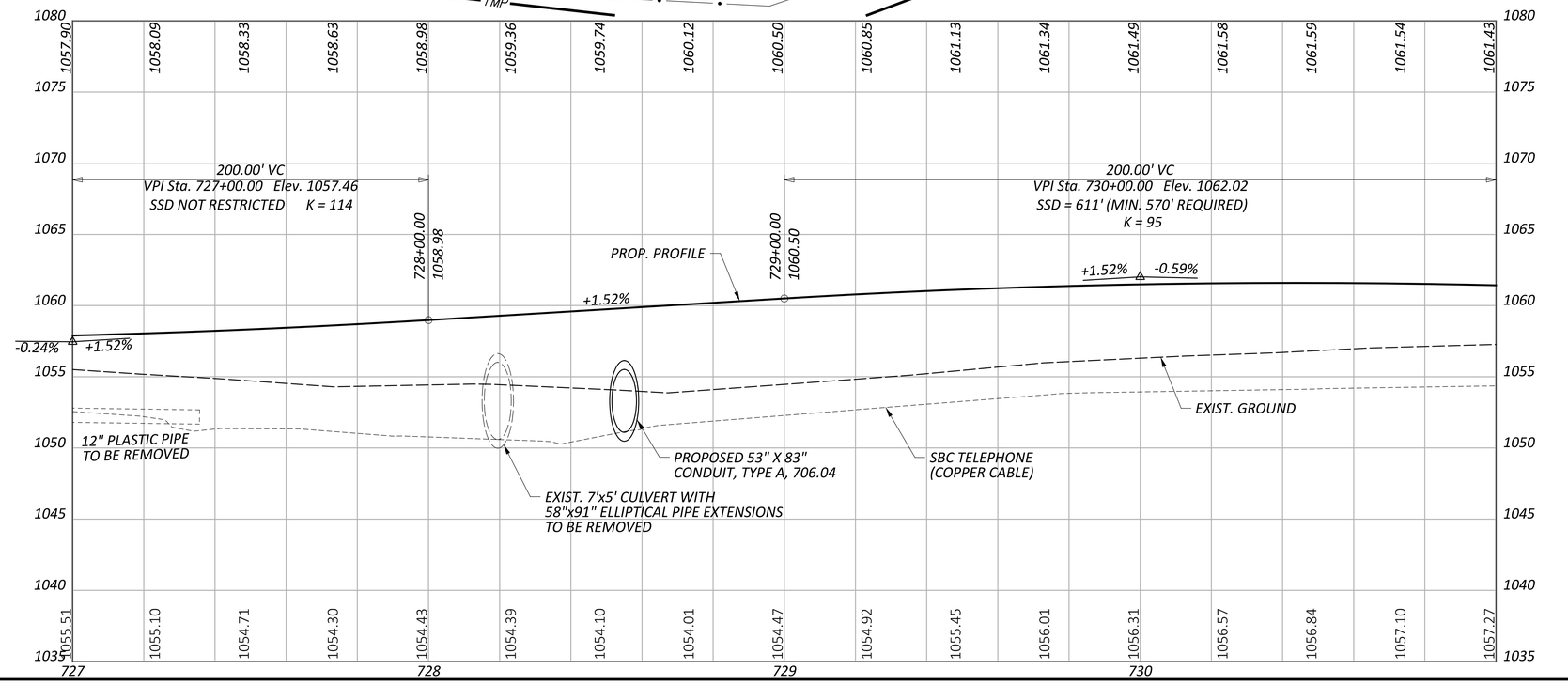
WAR-48-19.40

MODEL: SP1309-5 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.3	℄ REFERENCES & BENCHMARKS
P.38	CULVERT DETAILS

CURVE DATA
P.I. = STA. 728+94.39
Δ = 49°11'35" LT
Dc = 04°30'00"
R = 1,273.24'
Ls = 222.00'
Θs = 04°59'42"
LT = 148.06'
ST = 74.05'
Lc = 871.18'
Ts = 694.55'
Es = 128.83'
e_{max} = 0.08
T.S. = STA. 721+99.84
S.C. = 724+21.84
C.S. = 732+93.02
S.T. = STA. 735+15.02 BK





REF NO.	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED EACH	202 PIPE REMOVED, 24" AND UNDER FT	202 REMOVAL MISC.: 7'x5' CONCRETE BOX CULVERT WITH 58"x91" ELLIPTICAL PIPE EXTENSIONS EACH	202 REMOVAL MISC.: 2'x2' FARM TILE JUNCTION BOX EACH	611 15" CONDUIT, TYPE B FT	671 EROSION CONTROL MAT, TYPE A SY
R-1	727+43	727+56	RT & LT		184				
R-2	728+15	728+22	RT			1			
R-3	728+17	728+23	RT	1					
R-4	728+27	728+35	RT	1				158	167
R-5	728+51	728+53	RT				1		
FD-1	727+43	727+56	RT & LT						
SD-1	727+50	729+50	RT						
TOTALS CARRIED TO GENERAL SUMMARY				2	184	1	1	158	167

SP 1309-6
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
STA. 727+00 TO STA. 731+00

DESIGN AGENCY

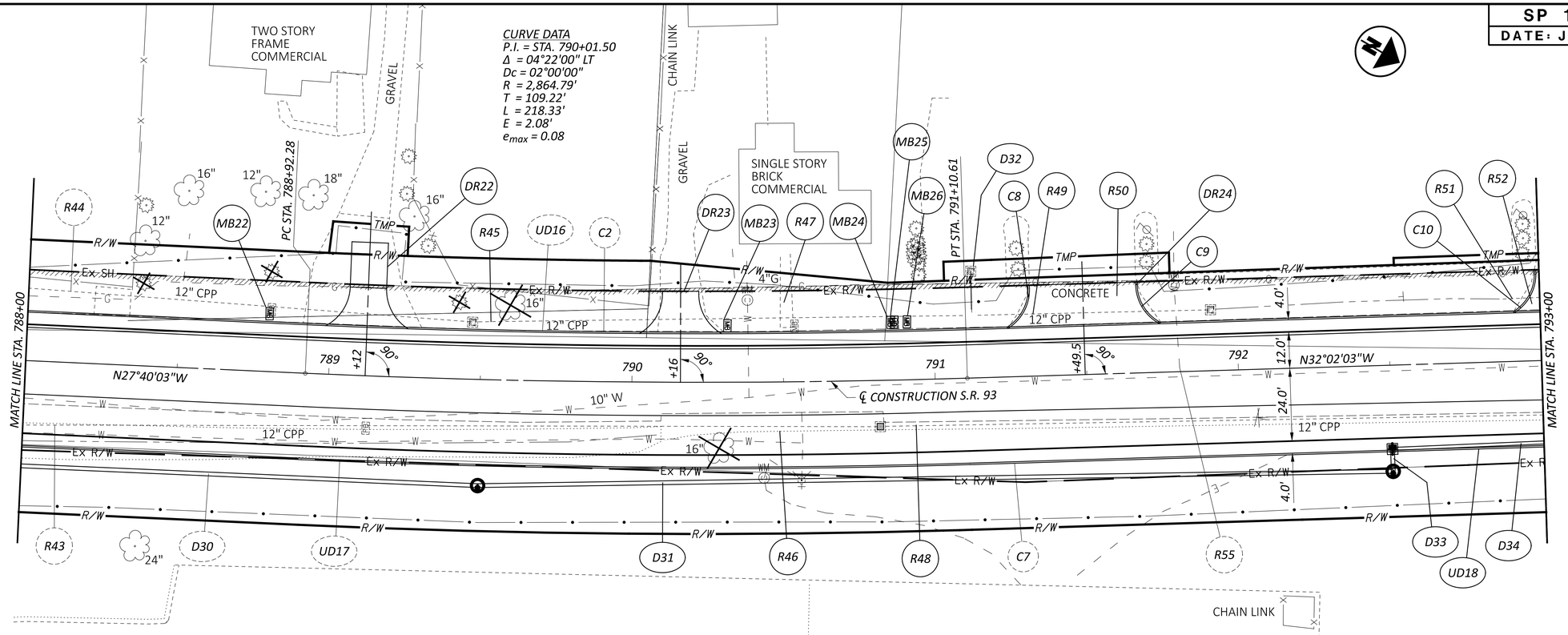
DESIGNER MSQ
REVIEWER JAD 01/17/25
PROJECT ID 130906
SHEET P.17 TOTAL 51

GRE-72-13.67

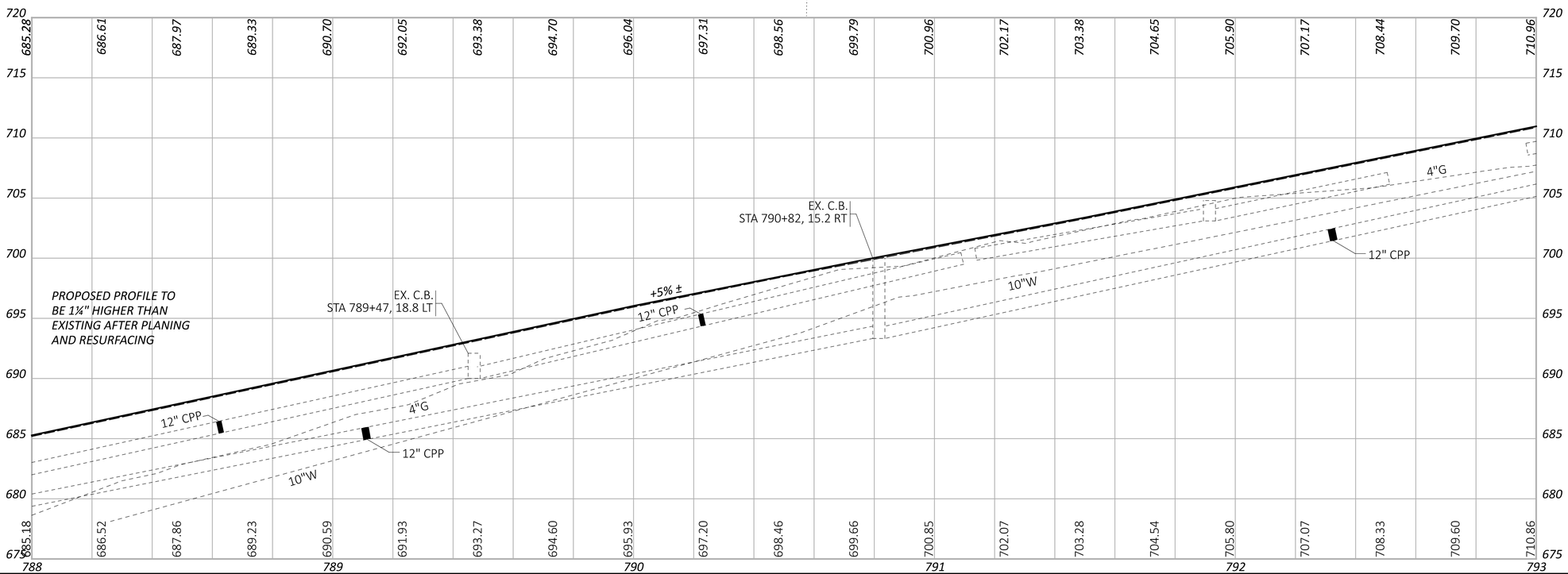
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SP 1309-7(a)
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40



FOR ESTIMATED QUANTITIES SEE SHEETS P.20 - P.24
FOR DRIVEWAY DETAILS AND QUANTITIES SEE SHEET P.83
FOR STORM SEWER PROFILES SEE SHEETS P.89 - P.92
FOR ℄ REFERENCES AND BENCH MARKS SEE SHEETS P.2 & P.3



MOE-93-22.35

MODEL: SP1309-7a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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PLAN AND PROFILE
STA. 788+00 TO STA. 793+00

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER MSQ
REVIEWER JAD 01/17/25
PROJECT ID 130907
SHEET P.34 TOTAL 126

SP 1309-7(b)
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

SINGLE STORY FRAME COMMERCIAL
SINGLE STORY FRAME COMMERCIAL
TWO STORY FRAME COMMERCIAL

Private Sign "Bud's Pizza"
BEGIN LANE SHIFT STA. 794+50.00
BUTT JOINT END LANE SHIFT STA. 795+90.00
MATCH LINE STA. 793+00
TAPER CURB HEIGHT (10')
℄ CONSTRUCTION S.R. 93
Private Sign "Joe's Diner"
PC STA. 796+38.18
PT STA. 797+68.17

R51 R52 R53 C12 DR26 C13 UD16 DR25 C2 C11 R46 D34 R48 UD18 R54 C7

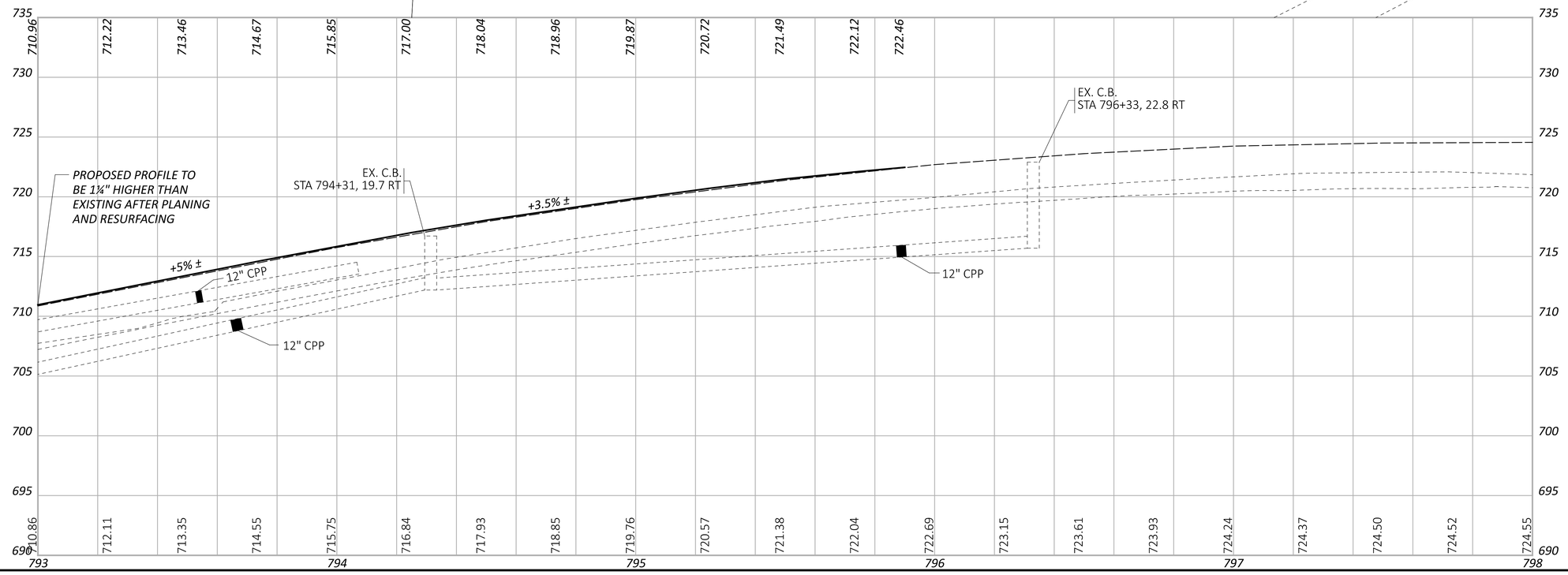
CONCRETE 12" CPP TMP R/W Ex R/W SAN CV 4"G W 10" W

+16.5 -90° +86 90° 794 N32°02'03"W 795 796 797 N30°44'03"W 798

4.0' 12.0' 24.0' 4.0' 14.4' 21.6' 2.1'

CURVE DATA
P.I. = STA. 797+03.18
Δ = 01°18'00" RT
Dc = 01°00'00"
R = 5,729.58'
T = 65'
L = 129.99'
E = .37'

FOR ESTIMATED QUANTITIES SEE SHEETS P.20 - P.24
FOR DRIVEWAY DETAILS AND QUANTITIES SEE SHEET P.83
FOR STORM SEWER PROFILES SEE SHEETS P.89 - P.92
FOR ℄ REFERENCES AND BENCH MARKS SEE SHEETS P.2 & P.3



PLAN AND PROFILE
STA. 793+00 TO STA. 798+00

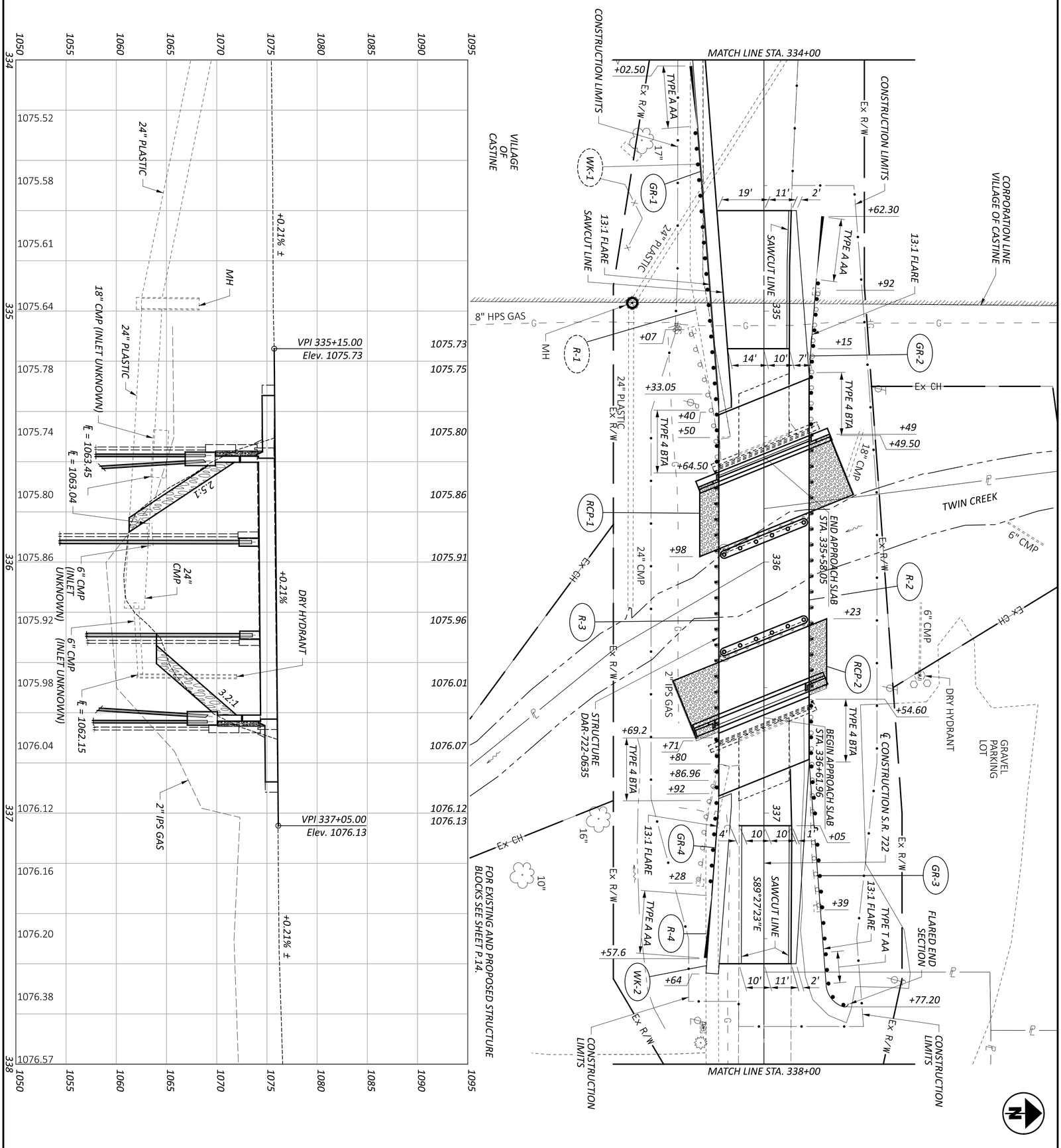
DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER MSQ
REVIEWER JAD 01/17/25
PROJECT ID 130907
SHEET P.35 TOTAL 126

MOE-93-22.55

MODEL: SP1309-7b PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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MODEL: SP1309-8 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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REF NO.	STATION FROM	STATION TO	SIDE	202 WALK REMOVED	202 GUARDRAIL REMOVED		606 GUARDRAIL, TYPE 5	606 ANCHOR ASSEMBLY, TYPE A	606 ANCHOR ASSEMBLY, TYPE T	606 BRIDGE TERMINAL ASSEMBLY, TYPE 4		608 4" CONCRETE WALK		601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
				SQ FT	FT		FT	EACH	EACH	EACH		SQ FT		CU YD	
GR-1	334+02.50	335+49.50	RT.				137.5	1		1					
GR-2	334+62.30	335+64.50	LT.				62.5	1		1					
GR-3	336+54.60	337+77.20	LT.				125		1	1					
GR-4	336+69.20	337+67.60	RT.				50.0	1		1					
R-2	334+92	337+39	LT.		250										
R-3	335+07	337+28	RT		225										
R-4	336+80	337+64	RT.	405											
RPC-1	335+49	335+98	LT/RT											120	
RPC-2	336+23	336+71	LT/RT											130	
WK-2	336+92	337+64	RT.									354			
TOTALS CARRIED TO GENERAL SUMMARY				405	475		387.5	3	1	4		354		250	

SP 1309-8
DATE: JANUARY 2025

SHEET	TOTAL
P.13	24

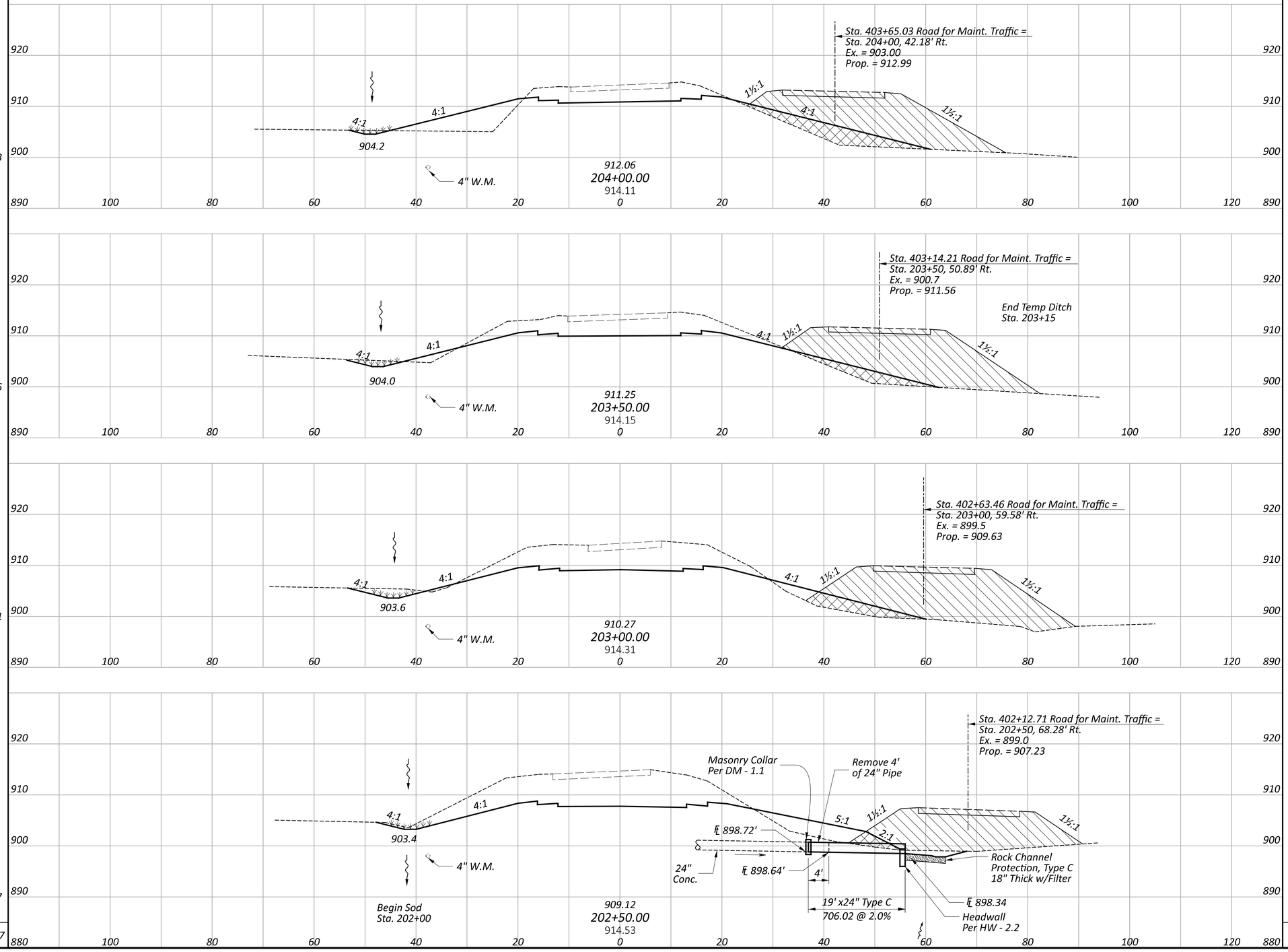
PROJECT ID: 130908
REVIEWER: GFR 01/17/25
DESIGNER: JAR
DESIGN AGENCY

PLAN AND PROFILE - S.R. 722
STA. 334+00 TO STA 338+00

HORIZONTAL SCALE IN FEET
0 20
10 40

| SEEDING | | |

SEEDING END WIDTH	SEEDING SQ. YDS.
104	
	583
106	
	586
105	
	581
104	
	517
SHEET TOTAL	2267



ROAD FOR MAINT. TRAFFIC* END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	332			95	136		
		0	645			241	169
0	364			165	46		
		6	703			367	94
7	395			231	56		
		6	616			509	96
0	270			319	48		
		7	297			156	171
SHEET TOTALS		*19	*2261			1273	530

SP 1310-2

DATE: JULY 2025

CROSS SECTIONS - S.R. 130
STA. 202+50.00 TO STA. 204+00.00

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER
RDN

REVIEWER
PDG 07/18/25

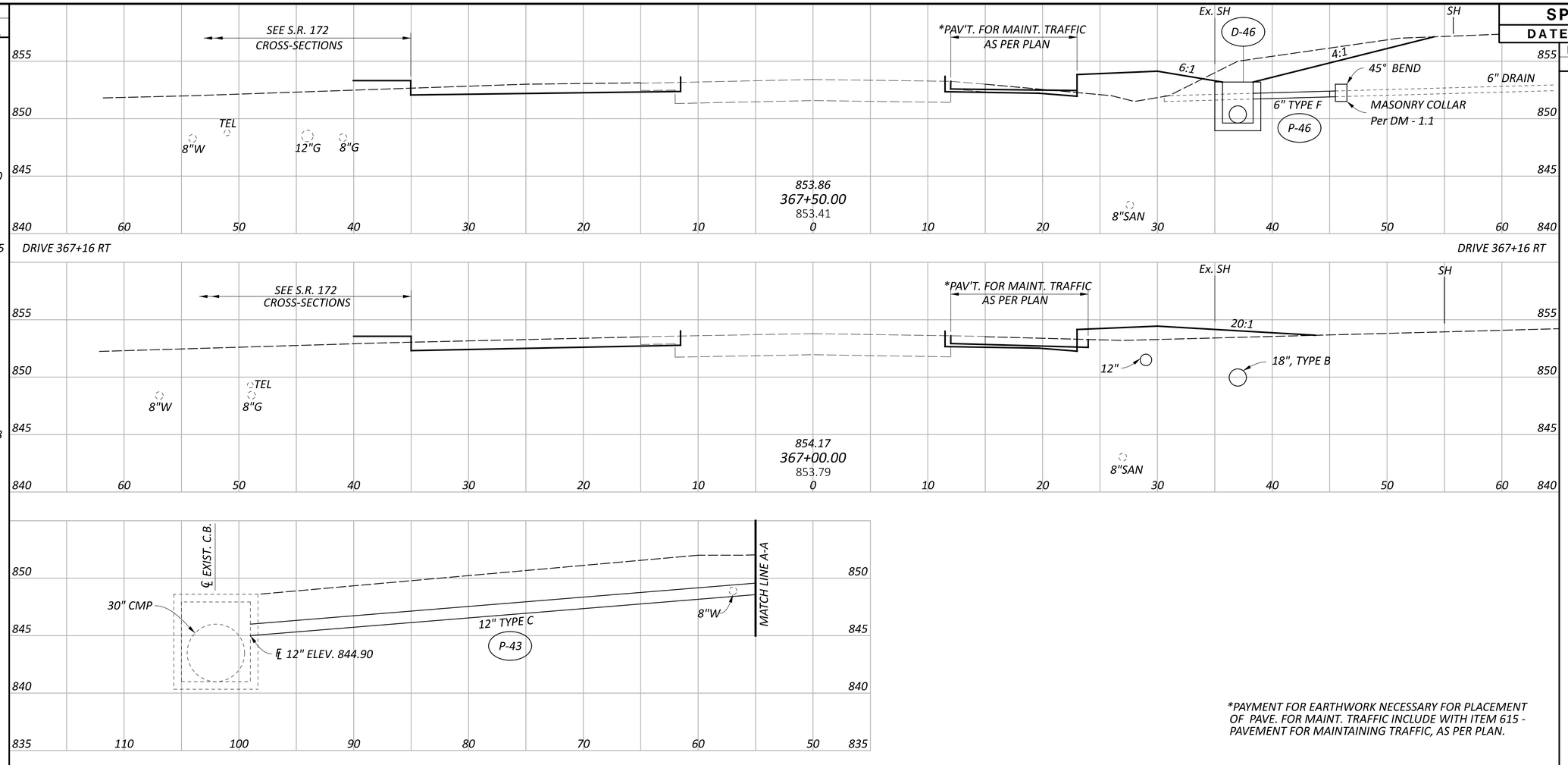
PROJECT ID
131002

SHEET P.74 TOTAL 103

MED-130-1.23

MODEL: SP1310-2 PAPERSIZE: 34x22 (in.) DATE: 7/18/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1310-2.dgn

SEEDING END WIDTH	SEEDING SQ. YDS.
36	200
	-135
36	253
	433
78	-135
78	380
SHEET TOTAL	996



*PAYMENT FOR EARTHWORK NECESSARY FOR PLACEMENT OF PAVE. FOR MAINT. TRAFFIC INCLUDE WITH ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, AS PER PLAN.

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
47	19		
		69	31
		2	3
28	15		
		43	52
18	41		
		38	68
		2	3
23	32		
		30	60
SHEET TOTALS		184	217

SP 1310-3

DATE: JULY 2025

CROSS SECTIONS - S.R. 67
STA. 366+00.00 TO STA. 367+50.00

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER MJG

REVIEWER DSN 07/18/25

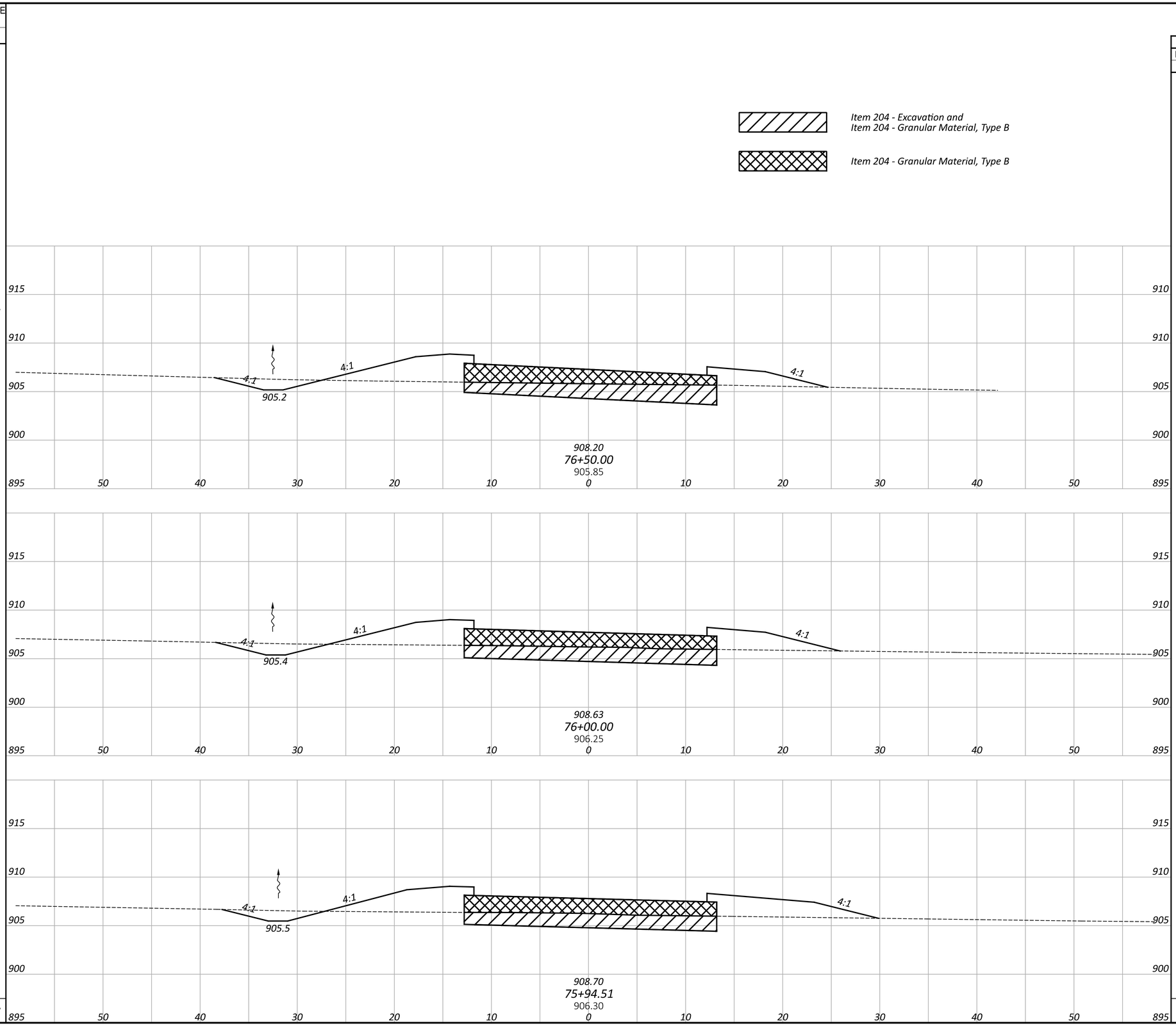
PROJECT ID 131003

SHEET P.57 TOTAL 97

CLI-67-16.86

MODEL: SP1310-3 PAPERSIZE: 34x22 (in.) DATE: 7/18/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1310-3.dgn

SEEDING		GEOTEXTILE FABRIC	
END WIDTH	SQ. YDS.	END WIDTH	SQ. YDS.
44		24	
	247		133
45		24	
	28		15
48		24	
SHEET TOTAL	275		148



SP 1310-4

DATE: JULY 2025

ITEM 203				ITEM 204			
END AREA		VOLUME		END AREA		VOLUME	
CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL
7	41			40	78		
		14	77			72	144
8	42			38	78		
		2	9			8	16
7	51			37	78		
SHEET TOTALS		16	86			80	160

CROSS SECTIONS - RELOCATED BOUNDARIES RD (C.R. 9) STA. 75+92.89 TO STA. 76+50.00

DESIGN AGENCY

XYZ

Planning • Engineering • Surveying

DESIGNER GFR

REVIEWER JAD 07/18/25

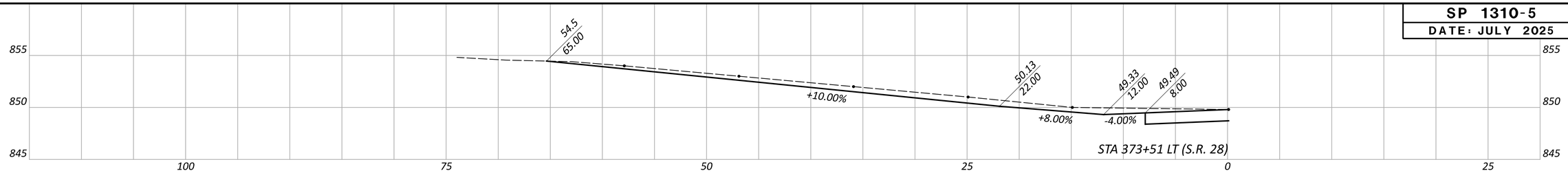
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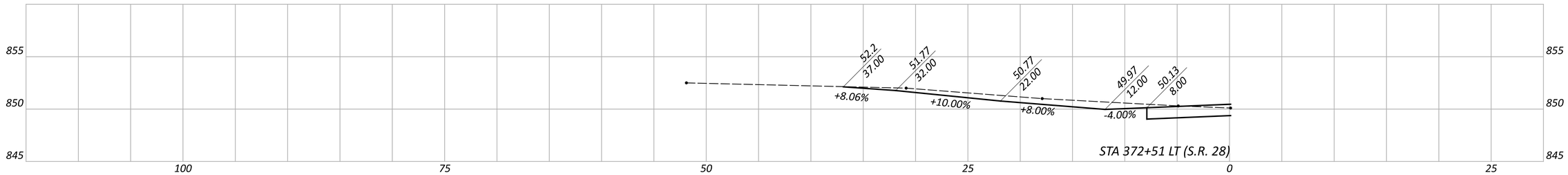
SHEET P.210 TOTAL 310

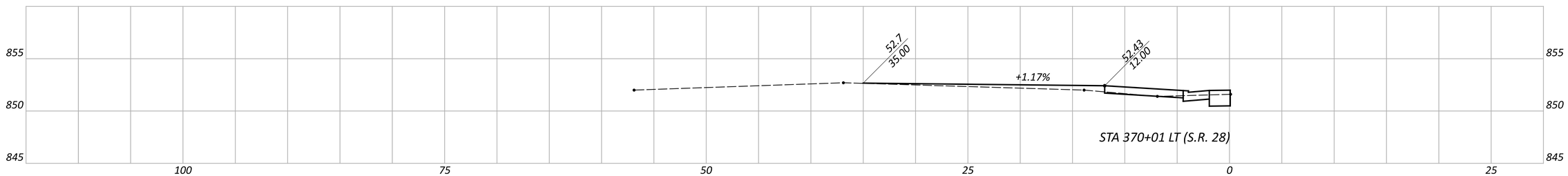
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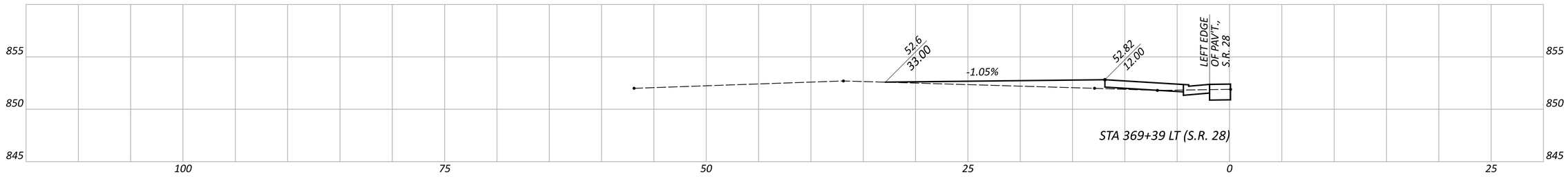
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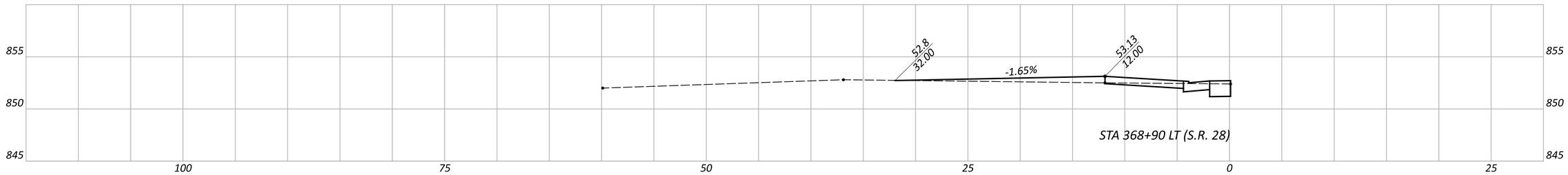
SP 1310-5
DATE: JULY 2025

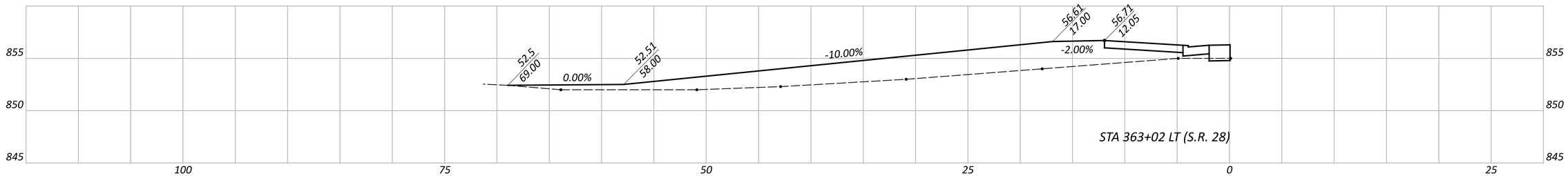












DRIVEWAY PROFILES

DESIGN AGENCY

DESIGNER
RDN

REVIEWER
PDG 07/18/25

PROJECT ID
131005

SHEET P.82 | TOTAL 97

HUR-28-6.86

MODEL: SP1310-5 PAPERSIZE: 34x22 (in.) DATE: 7/18/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1310-5.dgn

SP 1310-6
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 25 50 100

N

POT Sta. 0+00.00
PT Sta. 10+32.22
℄ CONST. UPPER VALLEY PIKE
Sta. 50+00.00 ℄ Ramp H =
Sta. 5+53.00 ℄ Upper Valley Pike
℄ CONST. RAMP H
Sta. 10+43.42 ℄ Columbia St.
Sta. 5+40.78 ℄ Upper Valley Pike
℄ CONST. W. COLUMBIA ST.
PC Sta. 7+00.00
PRC Sta. 8+35.07
PT Sta. 9+56.96
PRC Sta. 4+42.22
CS Sta. 11+14.10
PC Sta. 52+63.78
POT Sta. 60+30.87
PT Sta. 58+67.61
PCC Sta. 57+14.44
℄ EXISTING US 68
℄ EXISTING RAMP G
℄ EXSITING RAMP E
SC Sta. 3+12.61
PCC Sta. 6+92.61
TS Sta. 1+72.61
PT Sta. 1+72.30
MATCH LINE STA. 3+15 UPPER VALLEY PIKE

CROSS SECTION LAYOUT

DESIGN AGENCY

DESIGNER MSQ
REVIEWER JAD 01/17/25
PROJECT ID 131006
SHEET P.25 TOTAL 140

CLA-40-10.18

MODEL: SP1310-6 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1310-6.dgn

SEEDING	
END WIDTH	SQ. YDS.
68	415
81	404
64	355
64	315
SHEET TOTAL	1489

Item 202 - Pavement Removed, Asphalt Concrete

Item 202 - Pavement Removed, Asphalt Concrete and Item 203 - Embankment

780 / 770 / 760 / 750 / 740 — 180 160 140 120 100 80 60 40 20 0 20 40 60

40:1

48"X76" conc

766.98
96+50.00
766.98

DEDUCT FOR PAVEMENT REMOVED

Sta. 96+05.80, 152.4 LT
CB-2-6 APP, GRATE ELEV 763.80
48"x76" (N/SE) 758.05

40:1

766.44
96+00.00
766.44

40' - 48"x76" CONDUIT TYPE C, 706.04 HE I @ 1.00%

DEDUCT FOR PAVEMENT REMOVED

Sta. 95+67, 140.9 LT
48"x76" ht = 757.65

8:1

48" steel (abandon)

757.65

HW-2.2, A.P.P.

See Ex. Ramp H, Sta. 186+50
Cross Section

766.07
95+50.00
766.07

See Ex. Ramp H, Sta. 186+00
Cross Section

8:1

757.6

765.68
95+00.00
765.68

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
81	26		
		224	32
		-157	0
160	9		
		459	3
		-124	0
335	4		
		602	8
315	5		
		605	16
SHEET TOTALS		1609	59

CROSS SECTIONS - S.R. 315
STA. 95+00.00 TO STA. 96+50.00

SP 1310-7

DATE: JULY 2025

DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER: TKB

REVIEWER: MDC 07/18/25

PROJECT ID: 131007

SHEET P.26 | TOTAL 68

FRA-315-12.18

MODEL: SP1310-7 PAPERSIZE: 34x22 (in.) DATE: 7/18/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1310-7.dgn

SUPERELEVATION TABLE

P. I. Station 20+00.00 | Dc = 6° 00'

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	*ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	*ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
840.79	▲	-0.17	-0.0156	11.01	14+95.00	840.96	11.01	-0.0156	-0.17		840.79	N.C.
840.81		-0.15	-0.0135	11.10	15+00.00	840.96	11.10	-0.0156	-0.17		840.79	
840.93		-0.03	-0.0026	11.55	15+25.00	840.96	11.55	-0.0156	-0.18		840.78	
840.96		0.00	0.0000	11.66	15+31.25	840.96	11.66	-0.0156	-0.18		840.78	½ LEVEL
841.05		+0.09	+0.0075	12.00	15+50.00	840.96	12.00	-0.0156	-0.19		840.77	
841.14		+0.19	+0.0156	12.00	15+68.80	840.96	12.00	-0.0156	-0.19	▲	840.77	R.C.
841.17		+0.21	+0.0179	12.00	15+75.00	840.96	12.00	-0.0179	-0.21		840.75	
841.28	211:1	+0.33	+0.0278	12.00	16+00.00	840.95	12.00	-0.0278	-0.33		840.62	
841.40		+0.45	+0.0397	12.00	16+25.00	840.95	12.00	-0.0377	-0.45		840.50	
841.52		+0.57	+0.0476	12.00	16+50.00	840.95	12.00	-0.0476	-0.57		840.38	
841.61		+0.66	+0.0553	12.00	16+69.40	840.95	12.00	-0.0553	-0.66	211:1	840.29	P.C.
841.64		+0.69	+0.0575	12.00	16+75.00	840.95	12.00	-0.0575	-0.69		840.26	
841.76		+0.81	+0.0674	12.00	17+00.00	840.95	12.00	-0.0674	-0.81		840.14	
841.88		+0.93	+0.0773	12.00	17+25.00	840.95	12.00	-0.0773	-0.93		840.02	
841.95	▼	+1.00	+0.0830	12.00	17+39.33	840.95	12.00	-0.0830	-1.00		839.95	
841.95		+1.00	+0.0830	12.00	17+50.00	840.95	12.00	-0.0830	-1.00	▼	839.95	F.S.
842.00		+1.00	+0.0830	12.00	17+75.00	841.00	12.00	-0.0830	-1.00		840.00	
842.15		+1.00	+0.0830	12.00	18+00.00	841.25	12.00	-0.0830	-1.00		840.15	
842.42		+1.00	+0.0830	12.00	18+25.00	841.42	12.00	-0.0830	-1.00		840.42	
842.78		+1.00	+0.0830	12.00	18+50.00	841.78	12.00	-0.0830	-1.00		840.78	
843.26		+1.00	+0.0830	12.00	18+75.00	842.26	12.00	-0.0830	-1.00		841.26	
843.84		+1.00	+0.0830	12.00	19+00.00	842.84	12.00	-0.0830	-1.00		841.84	
844.52		+1.00	+0.0830	12.00	19+25.00	843.52	12.00	-0.0830	-1.00		842.52	
845.31		+1.00	+0.0830	12.00	19+50.00	844.31	12.00	-0.0830	-1.00		843.31	
846.21		+1.00	+0.0830	12.00	19+75.00	845.21	12.00	-0.0830	-1.00		844.21	
847.21		+1.00	+0.0830	12.00	20+00.00	846.21	12.00	-0.0830	-1.00		845.21	
848.32		+1.00	+0.0830	12.00	20+25.00	847.32	12.00	-0.0830	-1.00		846.32	
849.53		+1.00	+0.0830	12.00	20+50.00	848.53	12.00	-0.0830	-1.00		847.53	
850.85		+1.00	+0.0830	12.00	20+75.00	849.85	12.00	-0.0830	-1.00		848.85	
852.27		+1.00	+0.0830	12.00	21+00.00	851.27	12.00	-0.0830	-1.00		850.27	
853.80		+1.00	+0.0830	12.00	21+25.00	852.80	12.00	-0.0830	-1.00		851.80	
855.44		+1.00	+0.0830	12.00	21+50.00	854.44	12.00	-0.0830	-1.00		853.44	
857.18		+1.00	+0.0830	12.00	21+75.00	856.18	12.00	-0.0830	-1.00		855.18	
859.03		+1.00	+0.0830	12.00	22+00.00	858.03	12.00	-0.0830	-1.00		857.03	
860.98		+1.00	+0.0830	12.00	22+25.00	859.98	12.00	-0.0830	-1.00		858.98	
861.87	▲	+1.00	+0.0830	12.00	22+35.95	860.87	12.00	-0.0830	-1.00	▲	859.87	F.S.
862.96		+0.93	+0.0775	12.00	22+50.00	862.03	12.00	-0.0776	-0.93		861.10	
865.01		+0.81	+0.0677	12.00	22+75.00	864.20	12.00	-0.0677	-0.81		863.39	
867.16		+0.69	+0.0578	12.00	23+00.00	866.47	12.00	-0.0578	-0.69		865.78	
867.69		+0.67	+0.0554	12.00	23+05.94	867.02	12.00	-0.0554	-0.67	211:1	866.35	P.T.
869.41		+0.57	+0.0479	12.00	23+25.00	868.84	12.00	-0.0479	-0.57		868.27	
871.78		+0.46	+0.0380	12.00	23+50.00	871.32	12.00	-0.0380	-0.46		870.86	
874.19	211:1	+0.34	+0.0281	12.00	23+75.00	873.85	12.00	-0.0281	-0.34		873.51	
876.61		+0.22	+0.0182	12.00	24+00.00	876.39	12.00	-0.0182	-0.22		876.17	
877.24		+0.19	+0.0156	12.00	24+06.48	877.05	12.00	-0.0156	-0.19	▼	876.86	R.C.
879.02		+0.10	+0.0083	12.00	24+25.00	878.92	12.00	-0.0156	-0.19		878.73	
881.03		0.00	0.0000	11.62	24+45.83	881.03	11.62	-0.0156	-0.18		880.85	½ LEVEL
881.43		-0.02	-0.0017	11.55	24+50.00	881.45	11.55	-0.0156	-0.18		881.27	
883.84		-0.14	-0.0126	11.10	24+75.00	883.98	11.10	-0.0156	-0.17		883.81	
884.47	▼	-0.17	-.0.0156	10.98	24+81.50	884.64	10.98	-0.0156	-0.17		884.47	N.C.

* NEGATIVE CORRECTIONS MEANING BELOW PROFILE GRADE
POSITIVE CORRECTIONS MEANING ABOVE PROFILE GRADE.

SUPERELEVATION TABLE

P. I. Station 36+45.21 | Dc = 3° 00'

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	*ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	*ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
606.93	▲	-0.19	-0.0156	12.00	33+92.16	607.12	12.00	-0.0156	-0.19		606.93	N.C.
607.13		-0.16	-0.0133	12.00	34+00.00	607.29	12.00	-0.0156	-0.19		607.10	
607.76		-0.05	-0.0042	12.00	34+25.00	607.81	12.00	-0.0156	-0.19		607.62	
608.04		0.00	0.0000	12.00	34+37.09	608.04	12.00	-0.0156	-0.19		607.85	T.S.
608.34		+0.05	+0.0042	12.00	34+50.00	608.29	12.00	-0.0156	-0.19		608.10	
608.88	236.5:1	+0.16	+0.0133	12.00	34+75.00	608.72	12.00	-0.0156	-0.19		608.53	
609.02		+0.19	+0.0156	12.00	34+82.02	608.83	12.00	-0.0156	-0.19	▲	608.64	R.C.
609.38		+0.27	+0.0225	12.00	35+00.00	609.11	12.00	-0.0225	-0.27		608.84	
609.84		+0.37	+0.0308	12.00	35+25.00	609.47	12.00	-0.0308	-0.37	236.5:1	609.10	
610.26		+0.48	+0.0400	12.00	35+50.00	609.78	12.00	-0.0400	-0.48		609.30	
610.63		+0.58	+0.0483	12.00	35+75.00	610.05	12.00	-0.0483	-0.58		609.47	
610.97		+0.69	+0.0575	12.00	36+00.00	610.28	12.00	-0.0575	-0.69		609.59	
611.12	▼	+0.74	+0.0620	12.00	36+12.09	610.38	12.00	-0.0620	-0.74	▼	609.64	S.C.
611.21		+0.74	+0.0620	12.00	36+25.00	610.47	12.00	-0.0620	-0.74		609.73	
611.36		+0.74	+0.0620	12.00	36+50.00	610.62	12.00	-0.0620	-0.74		609.88	
611.47		+0.74	+0.0620	12.00	36+75.00	610.73	12.00	-0.0620	-0.74		609.99	
611.48	▲	+0.74	+0.0620	12.00	36+77.94	610.74	12.00	-0.0620	-0.74	▲	610.00	C.S.
611.44		+0.65	+0.0542	12.00	37+00.00	610.79	12.00	-0.0542	-0.65		610.14	
611.36		+0.54	+0.0450	12.00	37+25.00	610.82	12.00	-0.0450	-0.54		610.28	
611.25		+0.44	+0.0367	12.00	37+50.00	610.81	12.00	-0.0367	-0.44	236.5:1	610.37	
611.08		+0.33	+0.0275	12.00	37+75.00	610.75	12.00	-0.0275	-0.33		610.42	
610.87	236.5:1	+0.22	+0.0183	12.00	38+00.00	610.65	12.00	-0.0183	-0.22		610.43	
610.80		+0.19	+0.0156	12.00	38+08.01	610.61	12.00	-0.0156	-0.19	▼	610.42	R.C.
610.64		+0.12	+0.0100	12.00	38+25.00	610.52	12.00	-0.0156	-0.19		610.33	
610.35		+0.01	+0.0008	12.00	38+50.00	610.34	12.00	-0.0156	-0.19		610.15	
610.31		0.00	0.0000	12.00	38+52.94	610.31	12.00	-0.0156	-0.19		610.12	S.T.
610.03		-0.09	-0.0075	12.00	38+75.00	610.12	12.00	-0.0156	-0.19		609.93	
609.69	▼	-0.19	-0.0156	12.00	38+97.87	609.88	12.00	-0.0156	-0.19		609.69	N.C.

SP 1311-1
DATE: JANUARY 2025

SUPERELEVATION TABLE

DESIGN AGENCY

DESIGNER KAK

REVIEWER LJS 01/17/25

PROJECT ID 131101

SHEET P.4 TOTAL 28

BEL-148-11.48

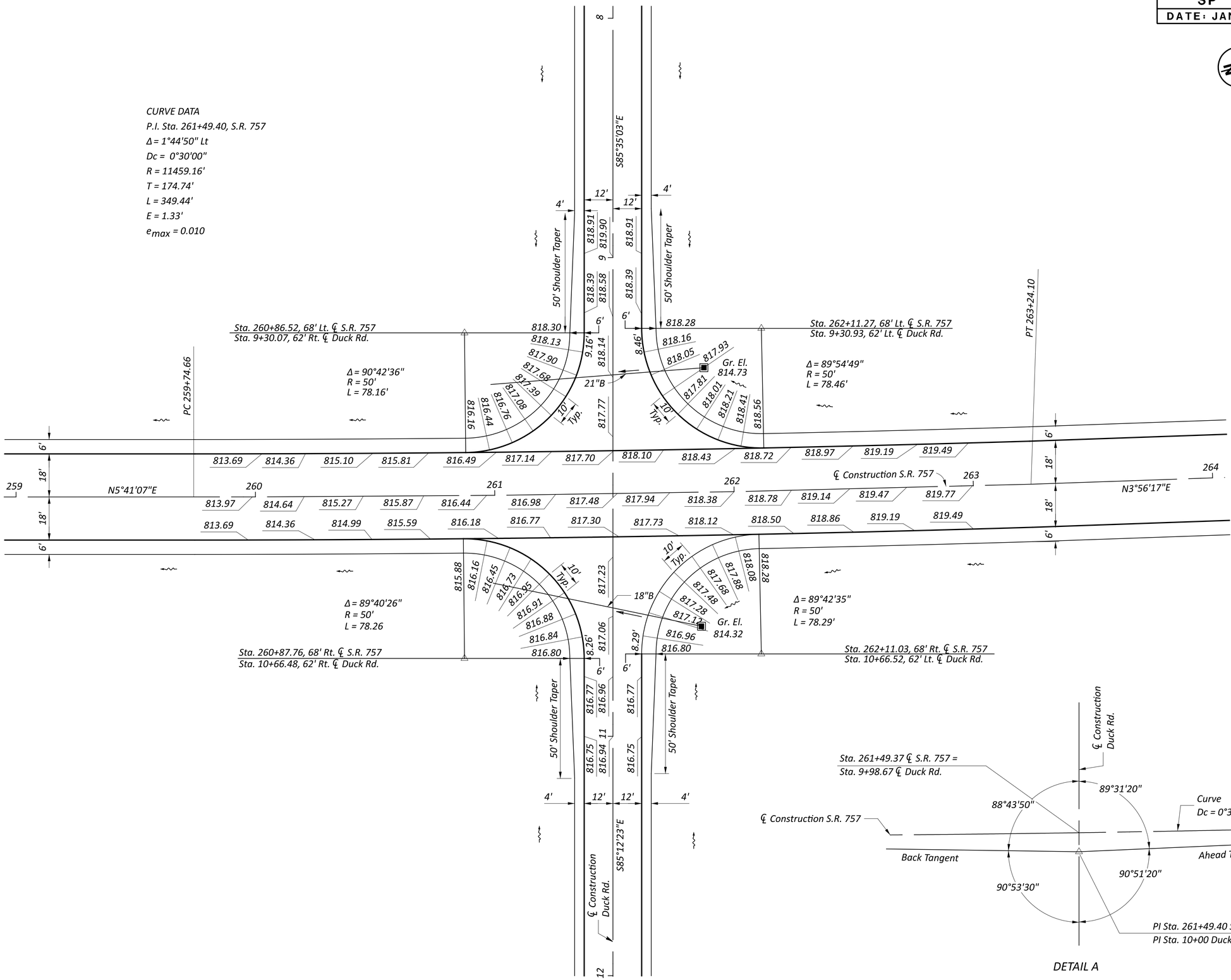
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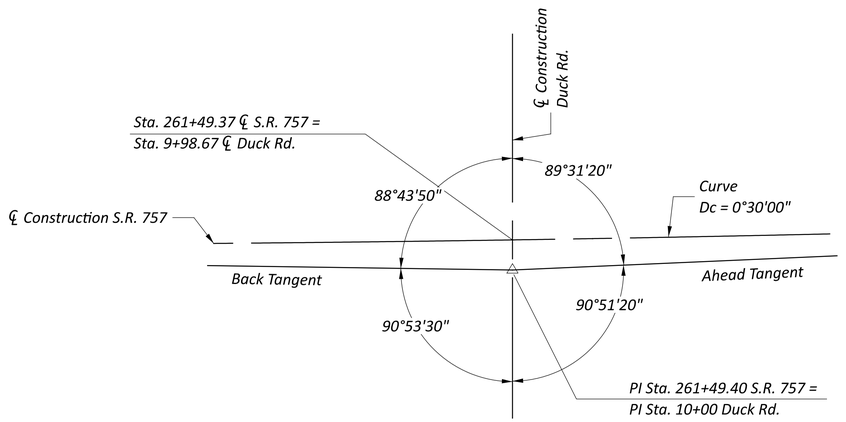
SP 1311-2
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERSECTION DETAIL S.R. 757 & DUCK ROAD

CURVE DATA
P.I. Sta. 261+49.40, S.R. 757
Δ = 1°44'50" Lt
Dc = 0°30'00"
R = 11459.16'
T = 174.74'
L = 349.44'
E = 1.33'
e_{max} = 0.010





DETAIL A

MEG-757-1.23

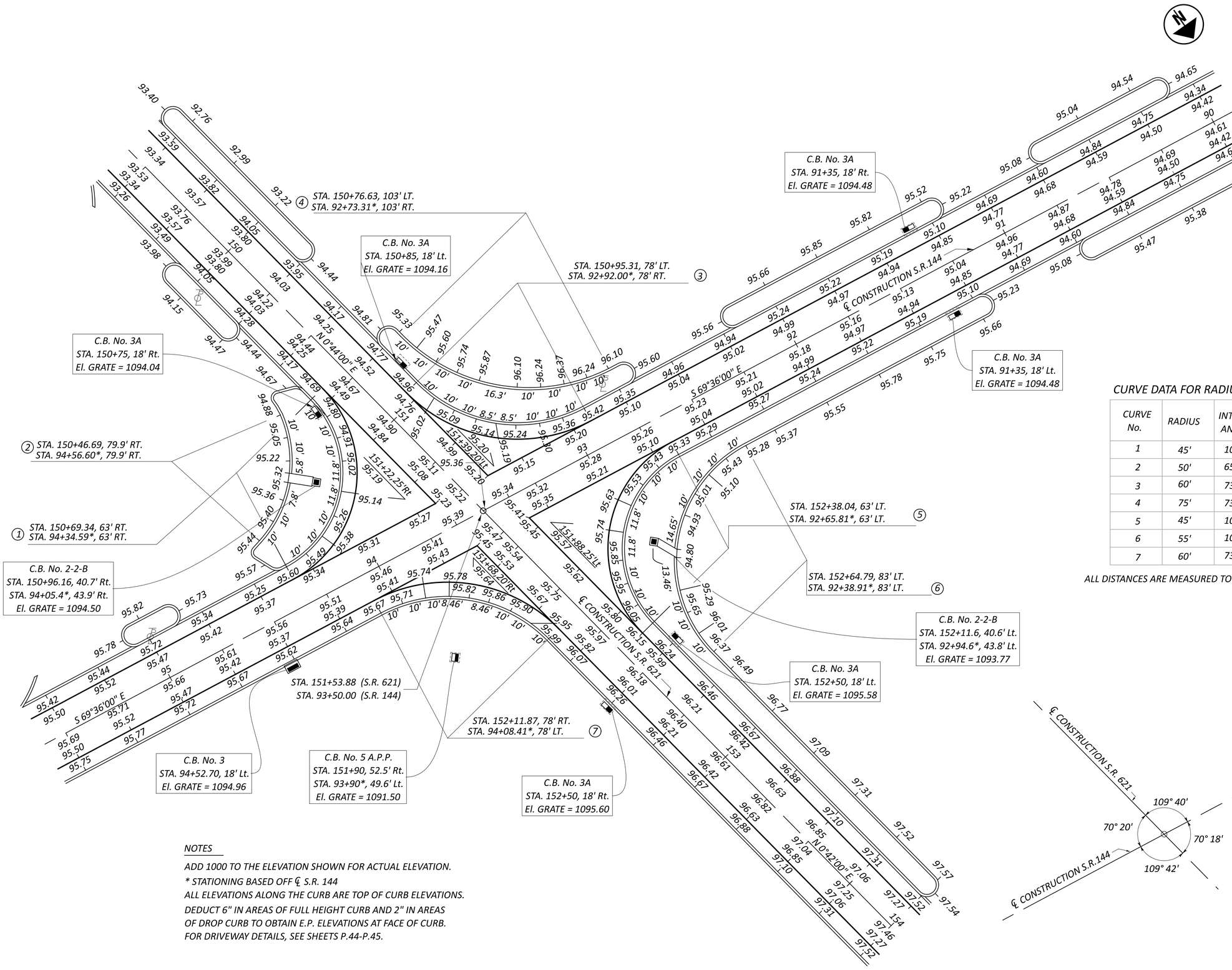
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DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER VHW
REVIEWER TLH 01/17/25
PROJECT ID 131102
SHEET P.31 TOTAL 41

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERSECTION DETAIL & PAVEMENT ELEVATIONS
S.R. 621 AND S.R. 144



CURVE DATA FOR RADIUS RETURNS

CURVE No.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	45'	106.48°	83.63'
2	50'	65.27°	56.96'
3	60'	73.52°	76.99'
4	75'	73.54°	96.27'
5	45'	106.48°	83.63'
6	55'	106.50°	102.24'
7	60'	73.52°	76.99'

ALL DISTANCES ARE MEASURED TO THE FACE OF CURB.

NOTES

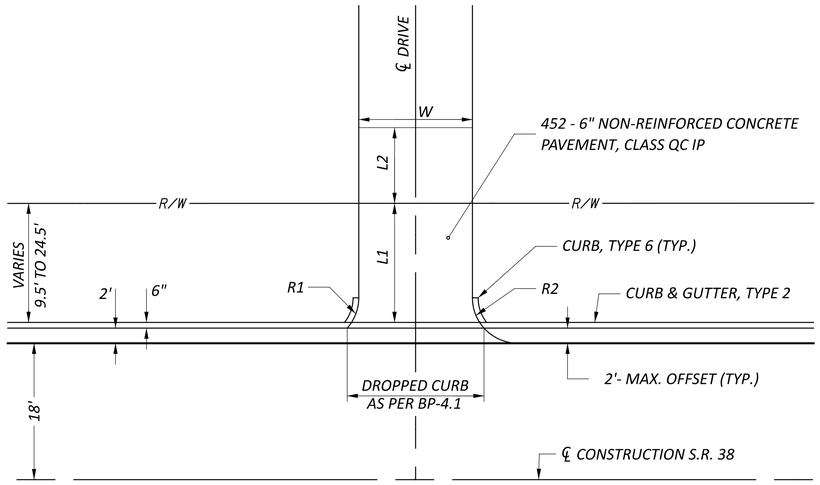
ADD 1000 TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
** STATIONING BASED OFF ℄ S.R. 144*
ALL ELEVATIONS ALONG THE CURB ARE TOP OF CURB ELEVATIONS.
DEDUCT 6" IN AREAS OF FULL HEIGHT CURB AND 2" IN AREAS OF DROP CURB TO OBTAIN E.P. ELEVATIONS AT FACE OF CURB.
FOR DRIVEWAY DETAILS, SEE SHEETS P.44-P.45.

BEL-621-5.29

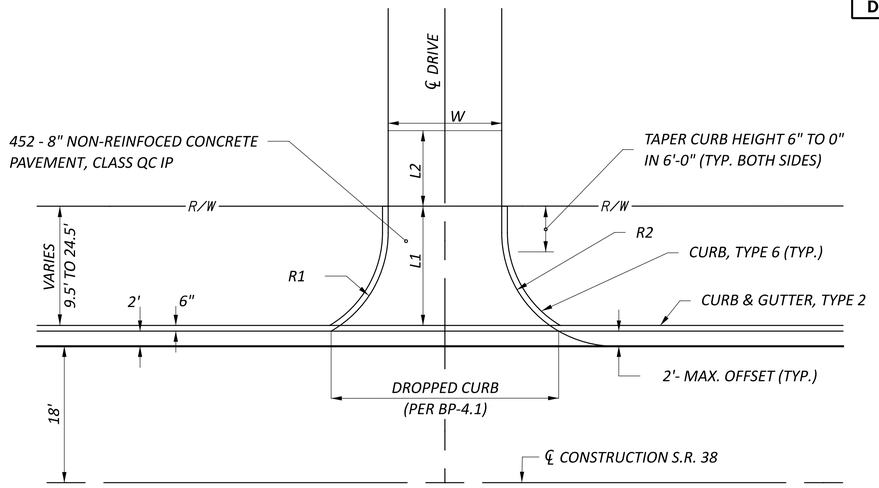
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DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

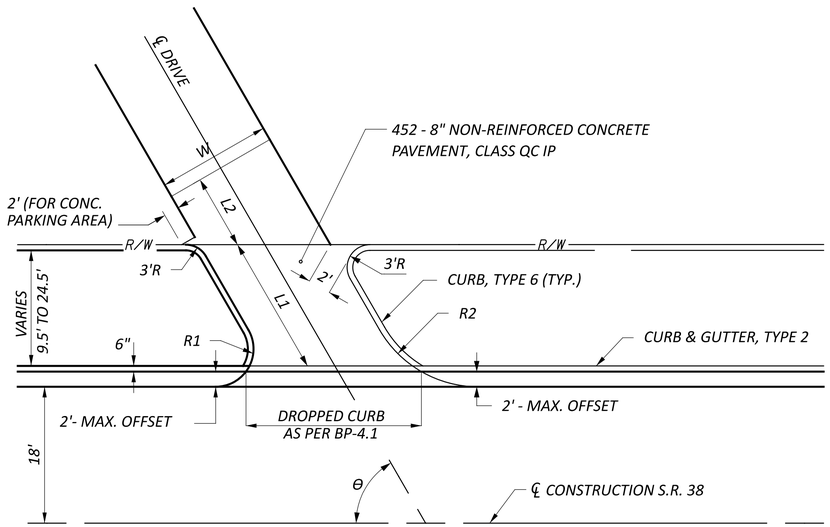
DESIGNER WSR
REVIEWER SJB 01/17/25
PROJECT ID 131103
SHEET P.42 TOTAL 50



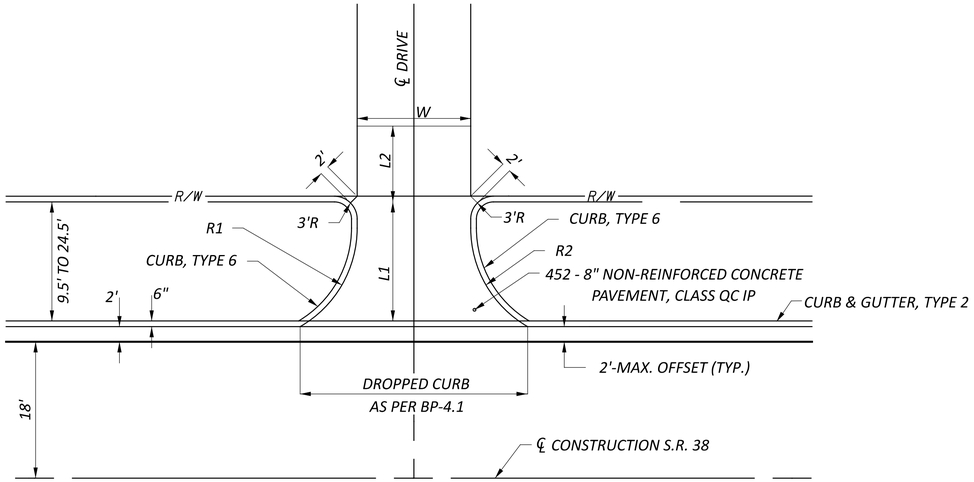
RESIDENTIAL DRIVES



COMMERCIAL DRIVES WITHOUT WRAP-AROUND CURB



SERVICE STATION DRIVES
FOR θ, SEE PLAN/PROFILE SHEETS.



COMMERCIAL DRIVES WITH WRAP-AROUND CURB

RESIDENTIAL DRIVES

EXISTING AGGREGATE DRIVES
- *452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP (APRON)*
- *301 - 8" ASPHALT CONCRETE BASE, PG64-22*

EXISTING ASPHALT DRIVES
- *452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP (APRON)*
- *301 - 2" ASPHALT CONCRETE BASE, PG64-22*
- *407 - TACK COAT*
- *304 - 6" AGGREGATE BASE*

EXISTING CONCRETE DRIVES
- *452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP (APRON)*

COMMERCIAL AND SERVICE STATION DRIVES

EXISTING AGGREGATE DRIVE
- *452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP (APRON)*
- *304 - 10" AGGREGATE BASE*

EXISTING ASPHALT DRIVE
- *452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP (APRON)*
- *442 - 1¼" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)*
- *442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)*
- *407 - TACK COAT*
- *304 - 8" AGGREGATE BASE*

EXISTING CONCRETE DRIVE
- *452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP (APRON)*

SEE SHEET P.41 FOR DRIVEWAY QUANTITIES.

HORIZONTAL SCALE IN FEET
0 5 10 20

DRIVEWAY DETAILS

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER WSR
REVIEWER SJB 01/17/25
PROJECT ID 131104
SHEET P.40 TOTAL 260

CAR-38-22.56

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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1311-4.dgn

SP 1311-5

DATE: JANUARY 2025

SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W"	R1 (LEFT SIDE RADII OF DRIVE LOOKING FROM ℄)	R2 (RIGHT SIDE RADII OF DRIVE LOOKING FROM ℄)	202	203			301	304				407	442			452	
										PAVEMENT REMOVED	EMBANKMENT	EXCAVATION		8" ASPHALT CONCRETE BASE, PG64-22	6" AGGREGATE BASE	8" AGGREGATE BASE	10" AGGREGATE BASE		TACK COAT	1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)	1¼" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)		6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP	
					FT	FT	FT	FT	FT	SY	CY	CY		CY	CY	CY	CY		GAL	CY	CY		SY	SY	
P.71	DR-1	695+70	RT	COMM.	9.50	13.0	35.0	15.0	15.0	186.6		8												120.7	
P.71	DR-2	696+27.03	RT	COMM.	11.0	17.0	12.0	15.0	6.00			5		1.1		5.2			9.3		0.8			17.1	
P.71	DR-3	696+62	RT	COMM.	9.50	15.0	35.0	15.0	15.0	217.7		7												218.9	
		PARKING	RT							111.7		26		2.2		10.6			19.0		1.6				
P.71	DR-4	697+25	LT	COMM.	9.50	20.0	26.0	15.0	15.0			19		2.8		12.8			23.1		2.0			31.8	
P.71	DR-5	697+68	RT	COMM.	9.50	10.0	35.0	15.0	15.0	141.7		11												85.6	
P.71	PARKING TO 698+00		RT							26.1		12												26.1	
P.74	DR-1	10+75	RT	COMM.	17.5	--	35.0	15.0	3.00	67.7		4												66.2	
		2ND ST. N.W.																							
P.74	DR-2	10+36	LT	RES.	17.0	23.3	8.00	4.00	6.00			15			2.7				6.4	0.9			30.0		
		2ND ST. N.W.																							
P.74	DR-3	698+87	LT	COMM.	9.50	28.0	25.0	15.0	15.0		6	10		3.8	17.3				31.1		2.7			32.0	
P.74	DR-4	699+96	RT	RES.	10.0	9.50	15.0	6.00	6.00			13		3.9									7.8		
		PARKING								29.3		5		3.1									1.6		
P.74	DR-5	700+77	RT	COMM.	9.50	5.00	35.0	15.0	15.0			16					6.5							40.7	
		PARKING	RT									2					2.0								
P.74	DR-6	701+32	RT	COMM.	10.0	11.0	21.0	--	6.00			6					6.2							27.1	
P.76	DR-1	702+45	RT	COMM.	9.50	12.5	35.0	15.0	15.0	165.6	16													94.9	
		PARKING								53.7	3													53.7	
P.76	DR-2	703+60	RT	COMM.	10.0	26.5	35.0	15.0	15.0			29		5.5		24.8			44.7		3.9			51.8	
P.76	DR-3	706+69	LT	RES.	9.50	5.00	13.0	6.00	6.00			3		1.5									14.4		
P.76	DR-4	704+21	LT	RES.	9.50	5.00	21.0	6.00	6.00		1	1		1.5									14.4		
P.76	DR-5	705+14	LT	RES.	9.50	--	28.0	6.00	6.00		4												29.1		
P.77	DR-1	706+39	LT	RES.	9.50	5.00	8.00	6.00	6.00			2		1.0									8.7		
P.77	DR-2	707+44	LT	RES.	9.50	1.00	12.0	6.00	6.00			5			0.2				0.5	0.1			13.1		
P.77	DR-3	708+05	RT	COMM.	9.50	9.50	35.0	15.0	15.0			22		1.0		4.2			7.6		0.7			41.1	
		PARKING										11		1.8		8.0			14.4		1.3				
P.77	DR-4	709+01	RT	COMM.	9.50	5.00	19.0	15.0	15.0			5		0.6		2.8			5.1		0.4			24.0	
P.77	DR-5	709+81	LT	RES.	9.50	10.5	17.0	6.00	6.00			5			1.8				4.2	0.6			19.6		
		PARKING										3			3.7				8.9	1.2					
P.77	DR-6	10+51	LT	COMM.	17.0	17.5	16.0	15.0	2.30															35.6	
		5TH ST. N.W.																							
P.77	DR-7	10+67	LT	RES.	17.0	--	6.00	2.30	6.00	35.6													18.9		
		5TH ST. N.W.																							
P.78	DR-1	710+44	LT	COMM.	9.50	10.0	21.5	15.0	15.0			13		1.4		6.7			12.0		1.0			29.1	
		PARKING										17		3.1		13.7			24.7		2.2				
P.78	DR-2	711+08	LT	RES.	9.50	39.0	17.0	6.00	6.00		2	7			9.1				21.9	3.0			20.2		
P.78	DR-3	711+58	RT	COMM.	9.50	6.00	35.0	15.0	15.0			15		1.4		6.4			11.5		1.0			42.7	
		PARKING										16		2.8		12.8			23.1		2.0				
P.78	DR-4	711+96	LT	COMM.	9.50	16.5	35.0	15.0	5.00			16		3.9		17.9			32.3		2.8			40.9	
		PARKING										14		2.2		10.4			18.7		1.6				
P.78	DR-5	712+53	RT	COMM.	9.50	3.00	35.0	15.0	15.0			15					3.9							42.7	
		PARKING	RT									2					2.1								
P.78	DR-6	713+39	LT	COMM.	9.50	13.0	35.0	5.00	15.0			9		2.8		12.8			23.1		2.0			36.4	
		PARKING	LT									1		0.1		0.7			1.3		0.1				
P.78	DR-7	713+18	RT	COMM.	9.50	3.00	35.0	15.0	15.0			15					3.8							42.7	
		PARKING	RT									6		1.0		4.4			8.0		0.7				
P.78	DR-8	713+64	LT	RES.	9.50	20.0	14.0	6.00	6.00		1	2		6.4									16.2		
TOTALS CARRIED TO GENERAL SUMMARY										1036	33	393		55	214				351	33			194	1202	

DRIVEWAY SUBSUMMARY

DESIGN AGENCY

XYZ

Planning • Engineering • Surveying

DESIGNER WSR

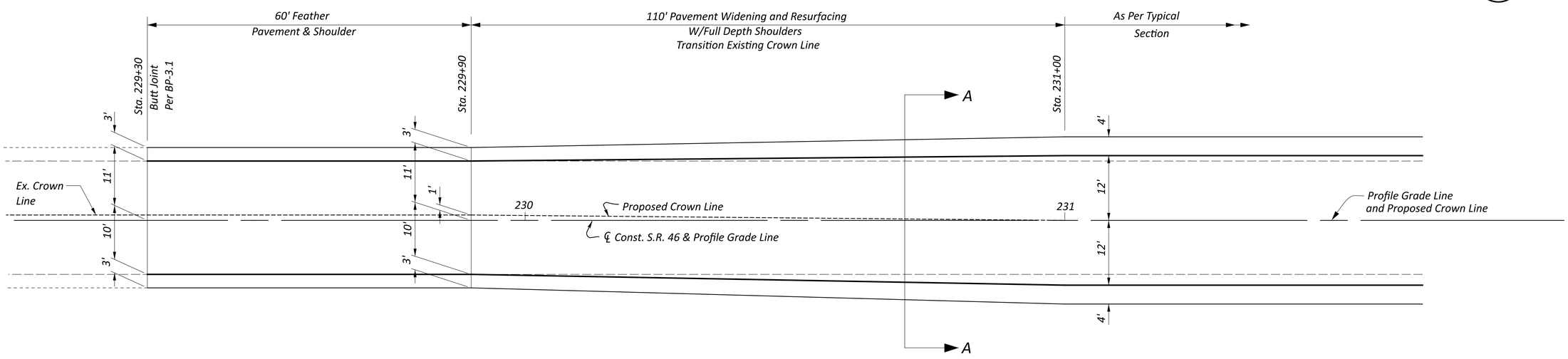
REVIEWER SJB 01/17/25

PROJECT ID 131105

SHEET P.41 TOTAL 260

CAR-38-22.56

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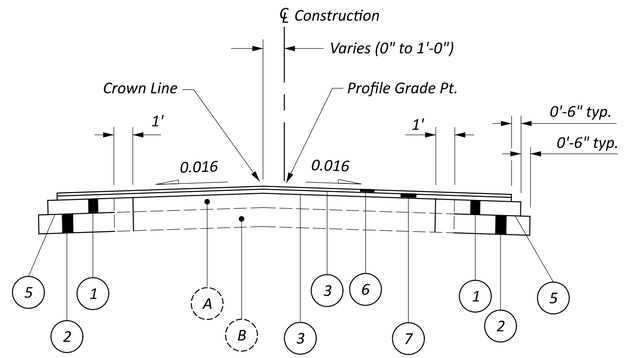
PAVEMENT TRANSITION DETAIL

LEGEND

1. ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22
2. ITEM 304 - 6" AGGREGATE BASE
3. ITEM 407 - TACK COAT (Applied at a rate of 0.075 gal/yd²)
4. NOT USED
5. ITEM 408 - PRIME COAT (Applied at a rate of 0.4 gal/yd²)
6. ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22
7. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)

A. ± 5" Asphalt

B. ± 8" Macadam Base



SECTION A-A

HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT TRANSITION DETAILS

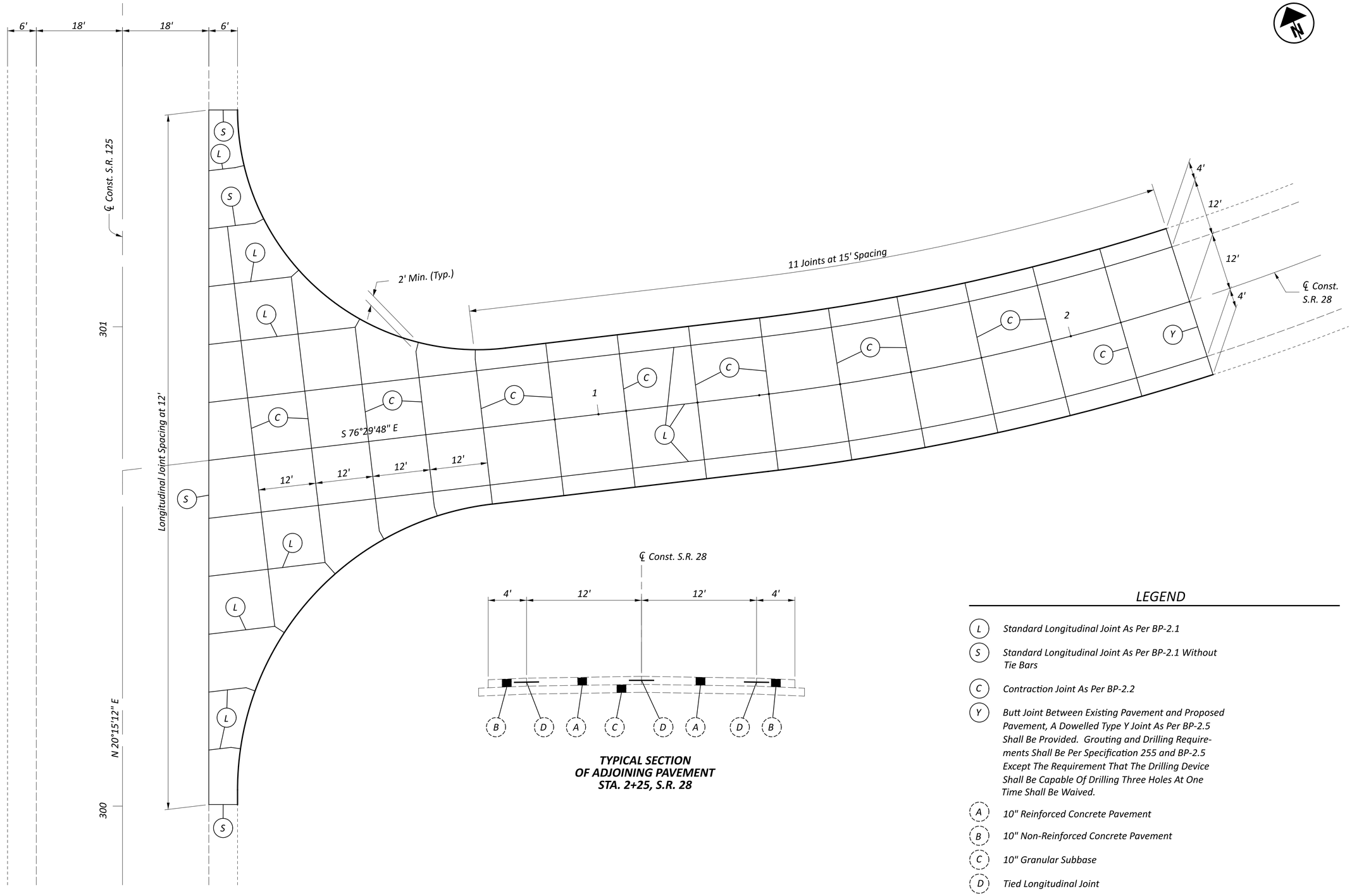
DESIGN AGENCY

DESIGNER CYO
REVIEWER EOP 01/17/25
PROJECT ID 131106
SHEET P.33 TOTAL 156

PIC-46-27.22

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SP 1311-7(a)
DATE: JANUARY 2025



TYPICAL SECTION
OF ADJOINING PAVEMENT
STA. 2+25, S.R. 28

LEGEND

- (L) *Standard Longitudinal Joint As Per BP-2.1*
- (S) *Standard Longitudinal Joint As Per BP-2.1 Without Tie Bars*
- (C) *Contraction Joint As Per BP-2.2*
- (Y) *Butt Joint Between Existing Pavement and Proposed Pavement, A Dowelled Type Y Joint As Per BP-2.5 Shall Be Provided. Grouting and Drilling Requirements Shall Be Per Specification 255 and BP-2.5 Except The Requirement That The Drilling Device Shall Be Capable Of Drilling Three Holes At One Time Shall Be Waived.*
- (A) *10" Reinforced Concrete Pavement*
- (B) *10" Non-Reinforced Concrete Pavement*
- (C) *10" Granular Subbase*
- (D) *Tied Longitudinal Joint*

HORIZONTAL SCALE IN FEET
0 5 10 20

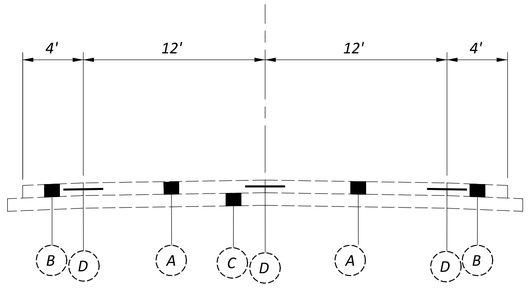
PAVEMENT JOINT DETAIL
S.R. 28

LOR-28-0.00

MODEL: SP1311-7a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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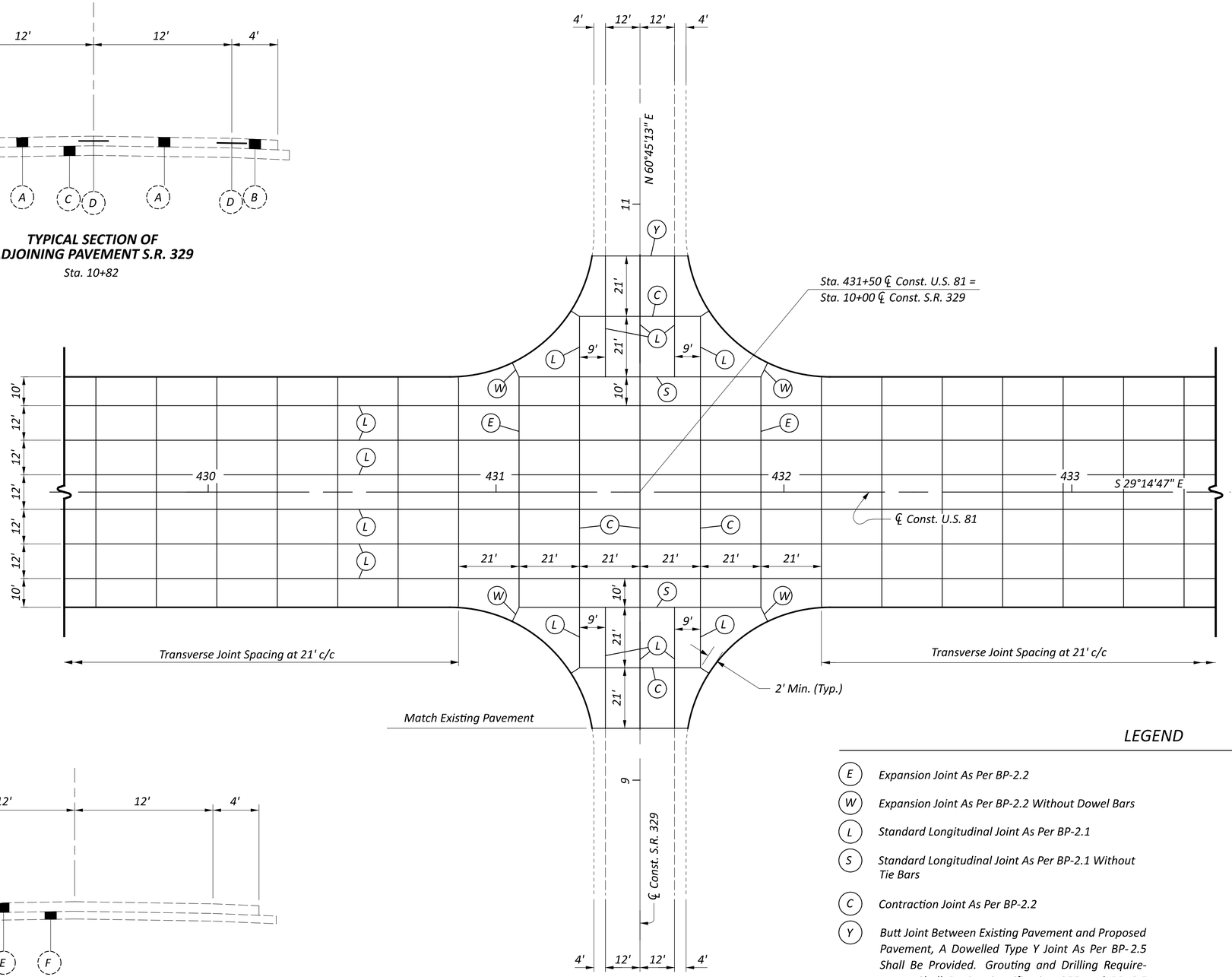
DESIGN AGENCY

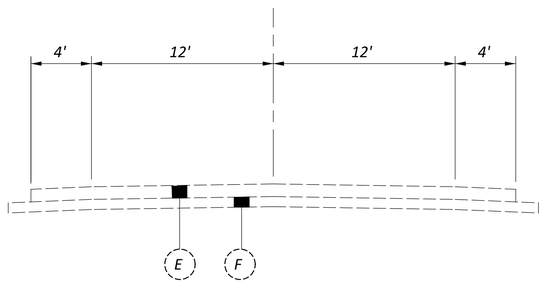
DESIGNER AAM
REVIEWER DEM 01/17/25
PROJECT ID 131107
SHEET P.48 TOTAL 96



TYPICAL SECTION OF ADJOINING PAVEMENT S.R. 329

Sta. 10+82





TYPICAL SECTION OF ADJOINING PAVEMENT S.R. 329

Sta. 9+18

LEGEND

- (E) *Expansion Joint As Per BP-2.2*
- (W) *Expansion Joint As Per BP-2.2 Without Dowel Bars*
- (L) *Standard Longitudinal Joint As Per BP-2.1*
- (S) *Standard Longitudinal Joint As Per BP-2.1 Without Tie Bars*
- (C) *Contraction Joint As Per BP-2.2*
- (Y) *Butt Joint Between Existing Pavement and Proposed Pavement, A Dowelled Type Y Joint As Per BP-2.5 Shall Be Provided. Grouting and Drilling Requirements Shall Be Per Specification 255 and BP-2.5 Except The Requirement That The Drilling Device Shall Be Capable Of Drilling Three Holes At One Time Shall Be Waived.*

- (A) *10" Reinforced Concrete Pavement*
- (B) *10" Non-Reinforced Concrete Pavement*
- (C) *10" Granular Subbase*
- (D) *Tied Longitudinal Joint*
- (E) *Asphalt Concrete Pavement, Depth Unknown*
- (F) *Aggregate Base, Depth Unknown*

HORIZONTAL SCALE IN FEET
0 10 20 40

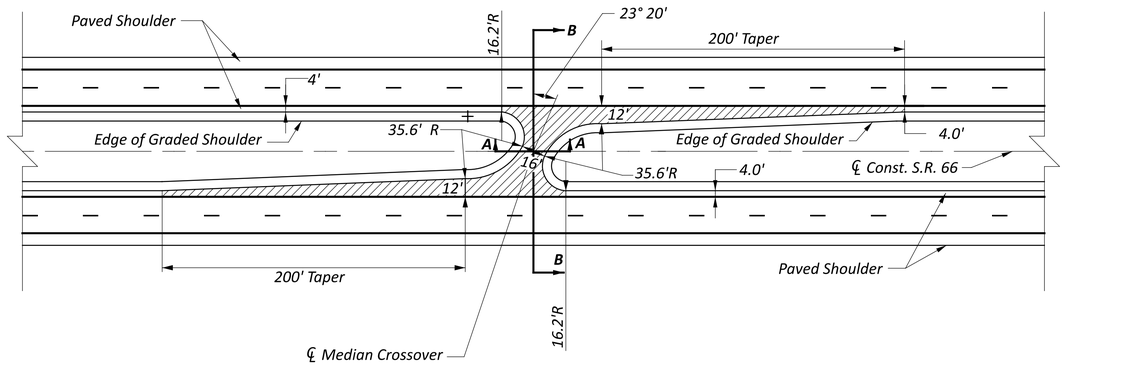
PAVEMENT JOINT DETAIL U.S.R. 81 AND S.R. 329

DESIGN AGENCY

DESIGNER VHW
REVIEWER TLH 01/17/25
PROJECT ID 131107
SHEET P.103 TOTAL 189

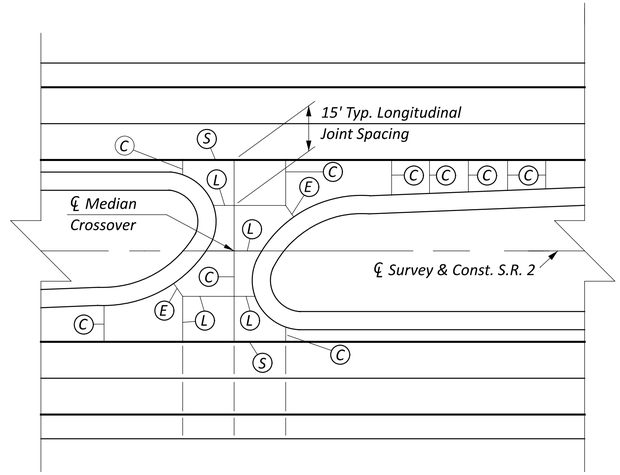
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TYPICAL MEDIAN CROSSOVER DETAIL

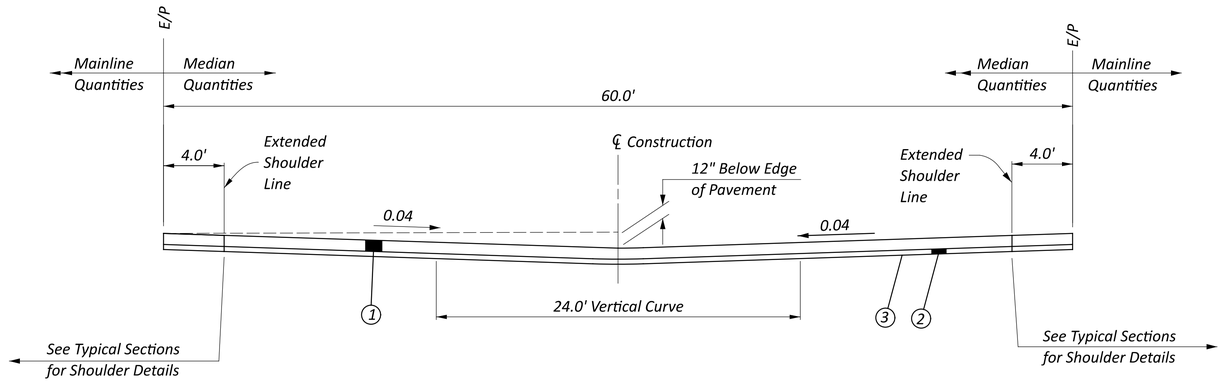
Applies: Sta. 5+00 and Sta. 124+00



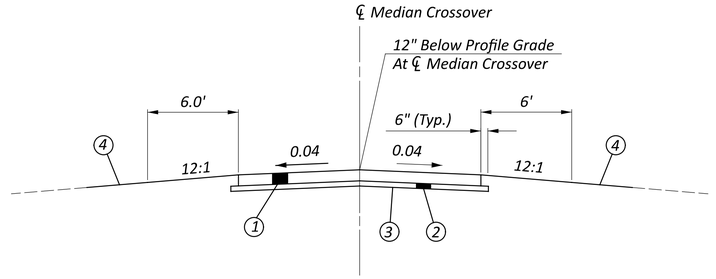
MEDIAN CROSSOVER JOINT DETAIL

Note:

1. *The Above is a Suggested Joint Diagram. The Contractor May Submit an Alternate Joint Diagram to the Engineer for Approval.*
2. *Align Joints in Median Crossover to form Continious Joints with traverse Joints in the Mainline Pavement.*



Section B-B



Section A-A

LEGEND

- (1) *ITEM 452 - 9" Non-Reinforced Concrete Pavement, Class QC IP, As Per Plan*
- (2) *ITEM 304 - 6" Aggregate Base*
- (3) *ITEM 204 - Subgrade Compaction*
- (4) *ITEM 659 - Seeding And Mulching*
- (C) *Contraction Joint As Per BP-2.2*
- (D) *Not Used*
- (E) *Expansion Joint (Without Dowels), As Per BP-2.2*
- (S) *Standard Longitudinal Joint, As Per BP-2.1 without Tie Bar 3*
- (L) *Longitudinal Joint, As Per BP-2.1*

MEDIAN CROSSOVER DETAILS

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

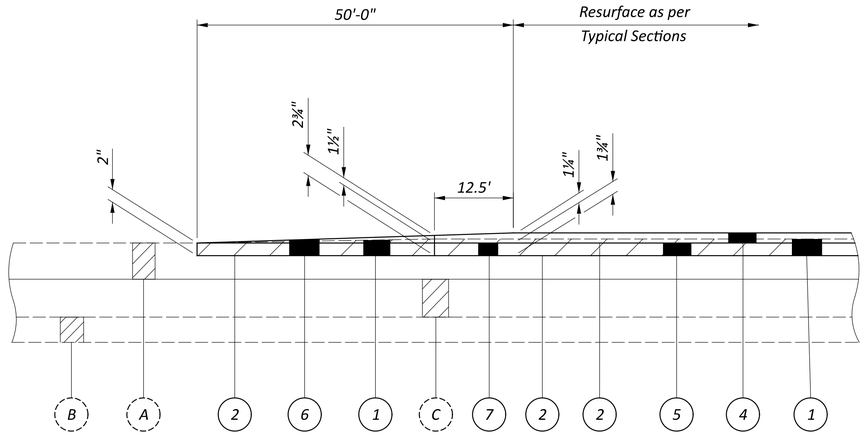
DESIGNER
KAK
REVIEWER
LJS 01/17/25
PROJECT ID
131108
SHEET P.91 TOTAL 267

OTT-66-4.33

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PROPOSED LEGEND

1. ITEM 254 Pavement Planing, Asphalt Concrete (Depth As Shown)
2. ITEM 407 Tack Coat
3. NOT USED
4. ITEM 441 1 ¼" Asphalt Concrete Surface Course, Type 1, (446), PG64-22
5. ITEM 441 1 ¾" Asphalt Concrete Intermediate Course, Type 2, (446)
6. ITEM 441 Var. Thickness Asphalt Concrete Surface Course, Type 1, (446), PG64-22
7. ITEM 441 Var. Thickness Asphalt Concrete Intermediate Course, Type 2, (446)
8. ITEM 848 1¾" Superplasticized Dense Concrete Overlay Using Hydrodemolition

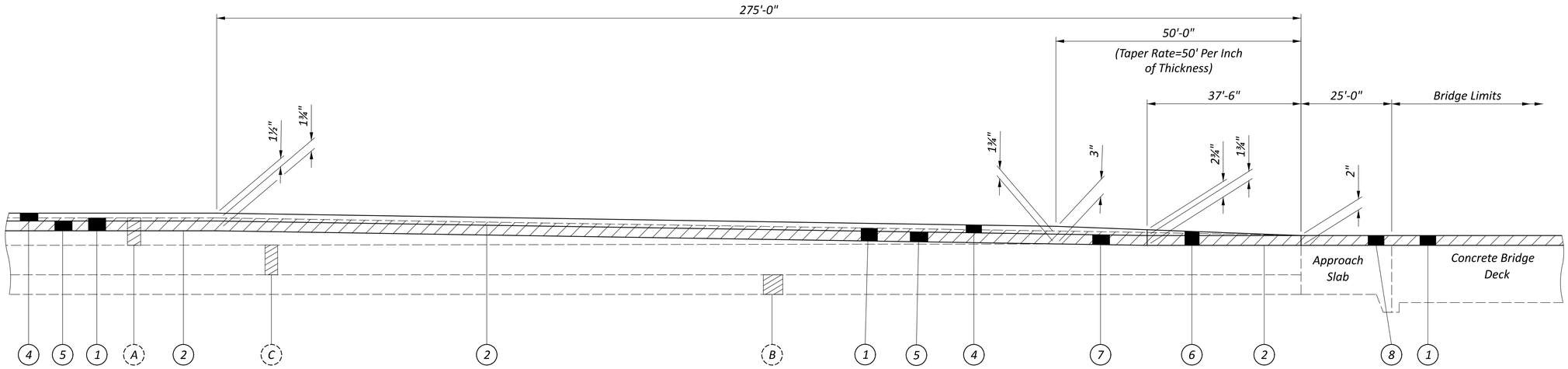


PAVEMENT TRANSITION AT BEGIN/END PAVEMENT

EXISTING LEGEND

- A ± 6½" Asphalt Concrete
- B ± 6" Subbase
- C ± 9" Reinforced Portland Cement Concrete Pavement

= Item 254 Pavement Planing, Asphalt Concrete



TRANSITION AT STRUCTURES

DETAIL APPLIES AT:
VAN-277-0585 Lt. & Rt. (North & South End)
VAN-277-1041 Lt. & Rt. (South Only)
VAN-277-1246 Lt. & Rt. (North Only)

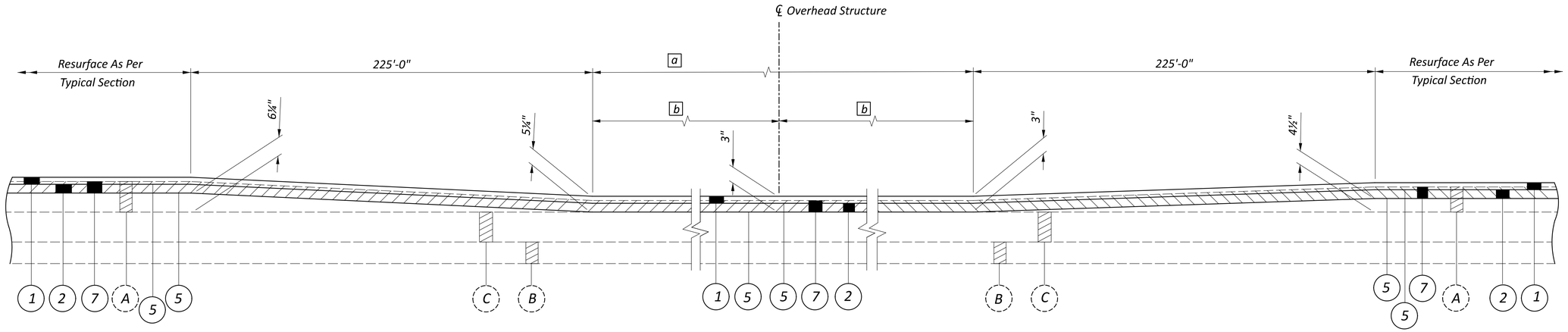
PAVEMENT TRANSITION DETAILS

VAN-277-6.66

MODEL: SP1311-9 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN AGENCY

DESIGNER DMK
REVIEWER CML 01/17/25
PROJECT ID 131109
SHEET P.32 TOTAL 161

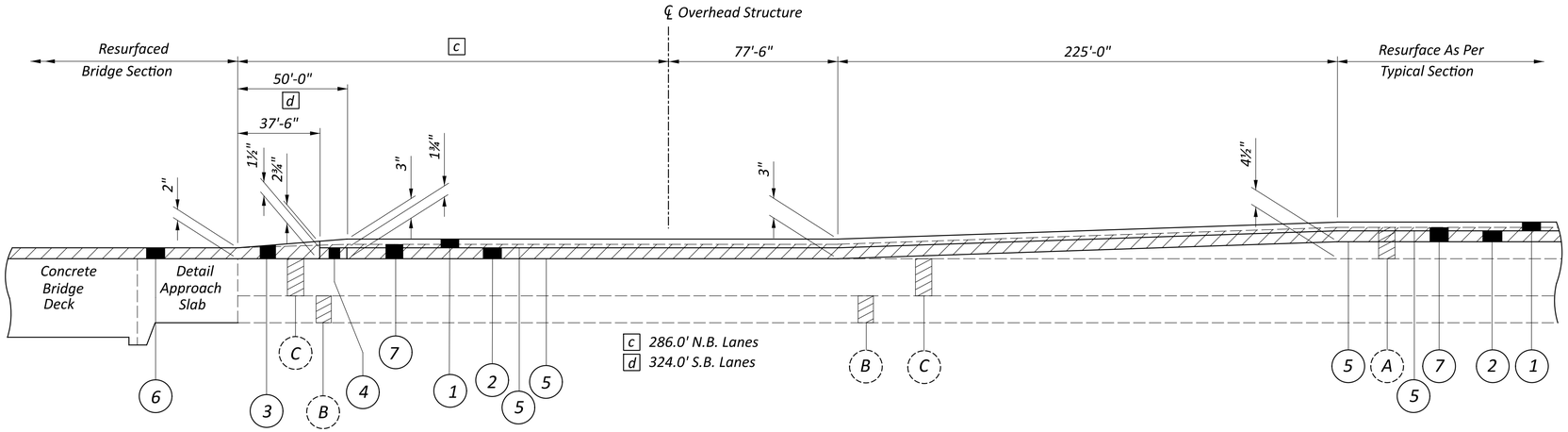


PAVEMENT TRANSITION AT OVERHEAD BRIDGE

DETAIL APPLIES AT STRUCTURES:

VAN-277-0378
VAN-277-1234
VAN-277-1303
VAN-277-0633
VAN-277-0776
VAN-277-0911
VAN-277-0493

STRUCTURE	a	b
VAN-277-0378	144.0'	72.0'
VAN-277-0493	160.0'	80.0'
VAN-277-0633	166.0'	83.0'
VAN-277-0776	165.0'	82.5'
VAN-277-0911	179.0'	89.5'
VAN-277-1234	155.0'	77.5'
VAN-277-1383	156.0'	78.0'



PAVEMENT TRANSITION AT OVERHEAD AND MAINLINE BRIDGES

DETAIL APPLIES AT STRUCTURES:

VAN-277-1047
VAN-277-1041 (North Side Only)

PROPOSED LEGEND

1. *ITEM 441 1 ¼" Asphalt Concrete Surface Course, Type 1, (446), PG 64-22*
2. *ITEM 441 1 ¾" Asphalt Concrete Intermediate Course, Type 2, (446)*
3. *ITEM 441 Var. Thickness Asphalt Concrete Surface Course, Type 1, (446), PG 64-22*
4. *ITEM 441 Var. Thickness Asphalt Concrete Intermediate Course, Type 2, (446)*
5. *ITEM 407 Tack Coat*
6. *ITEM 848 Micro Silica Modified Concrete Overlay using Hydrodemolition (Thickness 1 ¼" Nominal)*
7. *ITEM 254 Pavement Planing, Asphalt Concrete (Depth = 2")*

EXISTING LEGEND

- A *±6 ½" Asphalt Concrete*
- B *±6" Subbase*
- C *±9" Reinforced Portland Cement Concrete Pavement*
- *ITEM 254 - Pavement Planing, Asphalt Concrete*

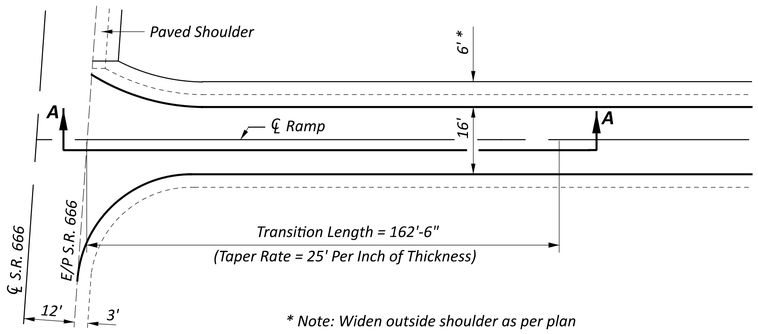
PAVEMENT TRANSITION DETAILS

DESIGN AGENCY

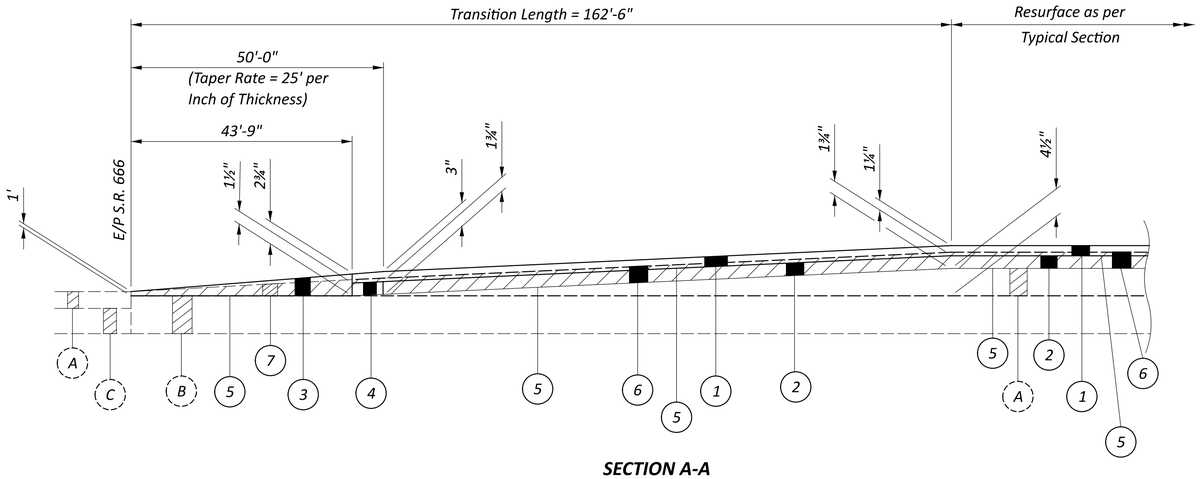
DESIGNER DMK
REVIEWER CML 01/17/25
PROJECT ID 131110
SHEET P.33 TOTAL 161

VAN-277-6.66

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PLAN VIEW

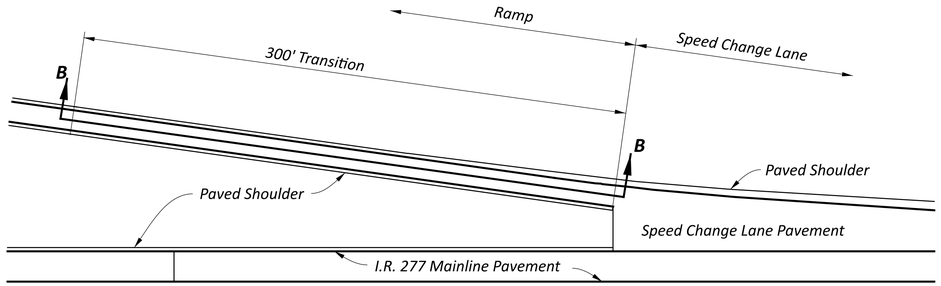


SECTION A-A

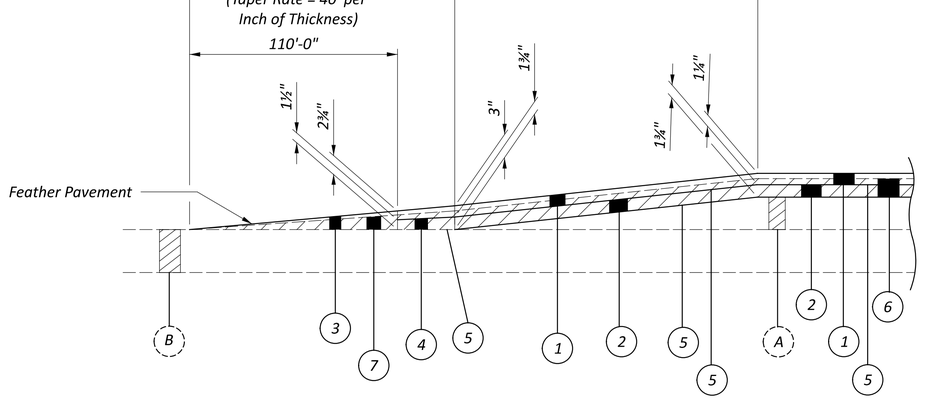
TRANSITION AT RAMP/CROSSROAD INTERSECTION

DETAIL APPLIES AT:

S.R. 666 Interchange



PLAN VIEW



SECTION B-B

TRANSITION AT REST AREA ENTRANCE/EXIT RAMP DETAIL

PROPOSED LEGEND

1. *ITEM 441 1 ¼" Asphalt Concrete Surface Course, Type 1, (446), PG 64-22*
2. *ITEM 441 1 ¾" Asphalt Concrete Intermediate Course, Type 2, (446)*
3. *ITEM 441 Var. Thickness Asphalt Concrete Surface Course, Type 1, (446), PG 64-22*
4. *ITEM 441 Var. Thickness Asphalt Concrete Intermediate Course, Type 2, (446)*
5. *ITEM 407 Tack Coat*
6. *ITEM 254 Pavement Planing, Asphalt Concrete (Depth = 2")*
7. *ITEM 254 Pavement Planing, Asphalt Concrete (Var. Thickness)*

ITEM 254 Pavement Planing, Asphalt Concrete

EXISTING LEGEND

- A *±6½" Asphalt Concrete*
- B *±9" Reinforced Portland Cement Concrete Pavement*
- C *±6" Aggregate Base*

PAVEMENT TRANSITION DETAILS

VAN-277-6.66

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DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER DMK
REVIEWER CML 01/17/25
PROJECT ID 131111
SHEET P.34 TOTAL 161

SP 1311-12
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 25 50 100

GRADING DETAILS
I.R. 73 INTERCHANGE

MATCH LINE STA 596+00 RAMP "A"
MATCH LINE STA. 602+00 RAMP "B"
MATCH LINE STA. 587+00 RAMP "A" & I.R. 73 W.B.
MATCH LINE STA. 586+00 RAMP "B"
MATCH LINE STA. 586+00 I.R. 73 E.B.
MATCH LINE STA. 601+00 I.R. 73 W.B.
MATCH LINE STA. 600+00 I.R. 73 E.B.
Ramp "A"
Ramp "B"
I.R. 73 W.B.
I.R. 73 E.B.
U.S. 23 S.B. ℄
Grade To Drain
24" B
72" A
27" A

DESIGN AGENCY

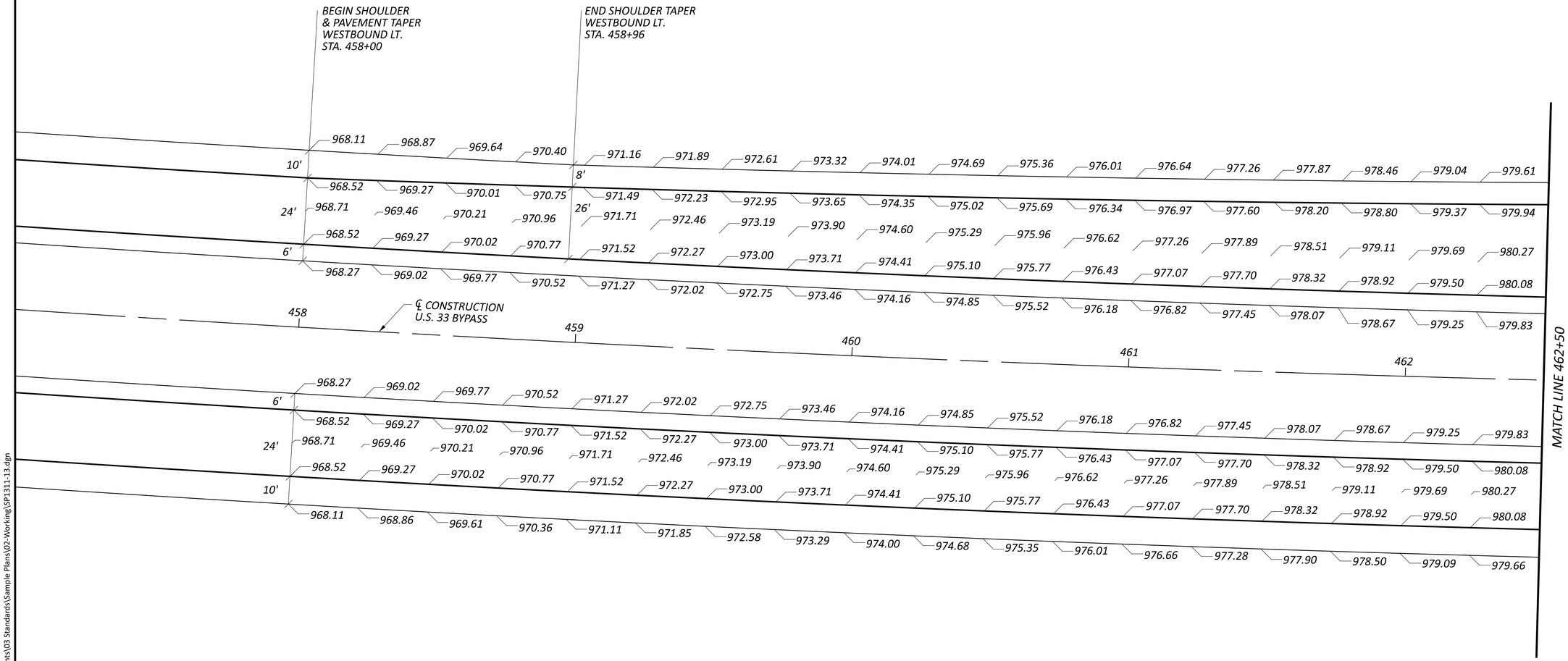
DESIGNER DMK
REVIEWER CML 01/17/25
PROJECT ID 131112
SHEET P.278 TOTAL 536

HAN-73-19.11

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SP 1311-13
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40



NOTE: ELEVATIONS SHOWN AT 25' INTERVALS

WEST RAMP TERMINAL DETAILS STA. 458+00 TO STA. 462+50

DESIGN AGENCY

DESIGNER CHG
REVIEWER LJS 01/17/25
PROJECT ID 131113
SHEET P.484 TOTAL 739

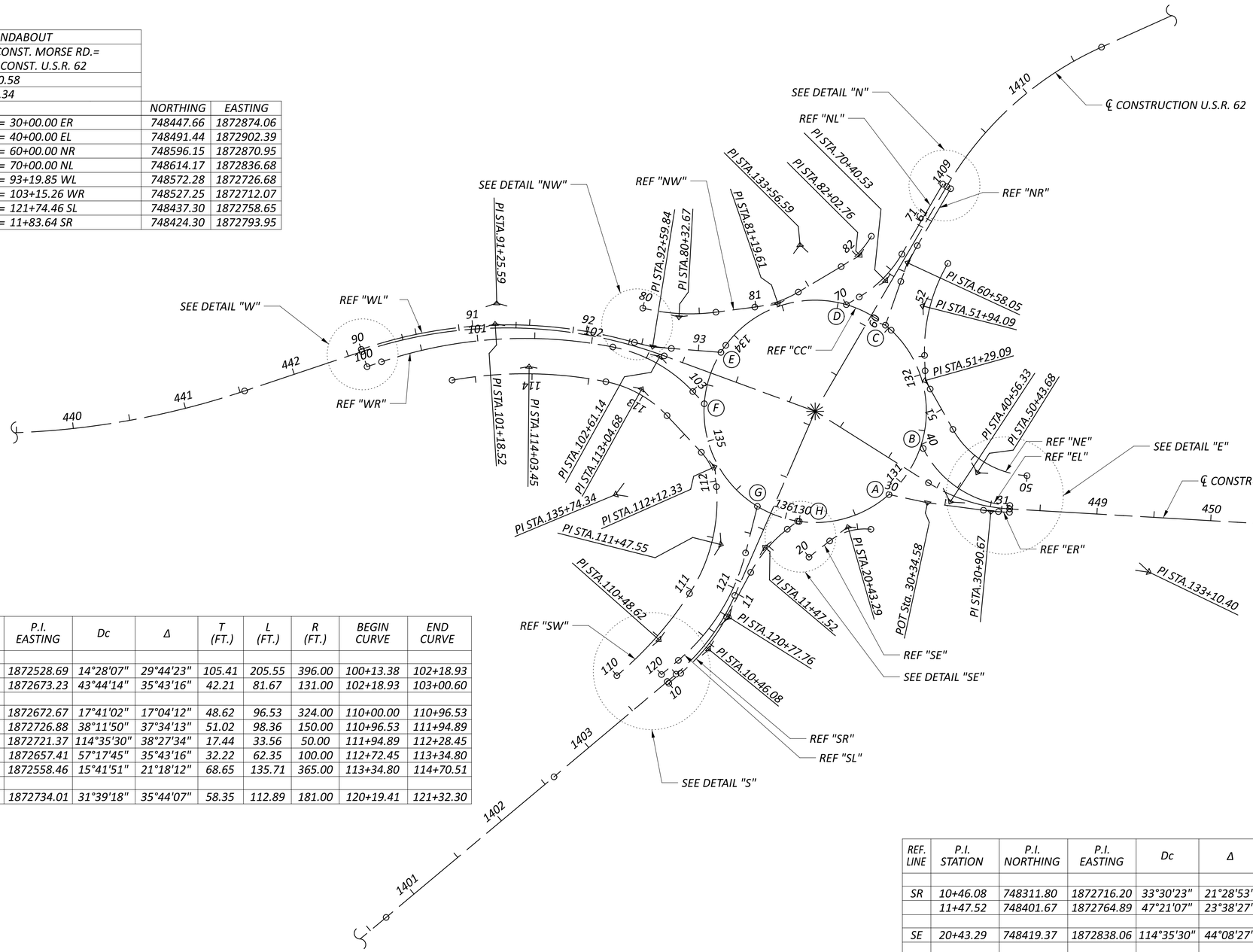
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REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
NL	70+40.53	748634.87	1872871.53	54°03'09"	28°58'34"	27.39	53.61	106.00	70+13.14	70+66.75
NW	80+32.67	748603.36	1872689.89	32°44'26"	21°09'05"	32.67	64.60	175.00	80+00.00	80+64.60
	81+19.61	748614.67	1872776.83	57°17'45"	23°17'51"	20.62	40.66	100.00	80+98.99	81+39.65
	82+02.76	748657.43	1872848.81	76°23'40"	28°58'32"	19.38	37.93	75.00	81+83.38	82+21.31
WL	91+25.59	748615.56	1872530.06	14°19'26"	34°51'45"	125.59	243.39	400.00	90+00.00	92+43.39
	92+59.84	748577.09	1872666.79	27°48'49"	09°07'57"	16.45	32.83	206.00	92+43.39	92+76.22

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
EL	40+56.33	748441.10	1872927.68	62°57'45"	59°58'13"	52.51	95.25	91.00	40+03.82	40+99.07
NE	50+43.68	748466.75	1872951.54	71°37'11"	57°16'00"	43.68	79.96	80.00	50+00.00	50+79.96
	51+29.09	748547.62	1872906.01	163°42'08"	27°30'05"	8.56	16.80	35.00	51+20.52	51+37.32
	51+94.09	748612.92	1872903.87	38°11'50"	32°11'22"	43.28	84.27	150.00	51+50.81	52+35.08
NR	60+58.05	748650.93	1872890.18	31°39'18"	10°58'01"	17.38	34.64	181.00	60+40.68	60+75.32

CENTER OF ROUNDABOUT			
STA. 446+23.93 ℄ CONST. MORSE RD.= STA. 1406+63.08 ℄ CONST. U.S.R. 62			
NORTHING= 748520.58			
EASTING= 1872809.34			
RADIUS= 97.50'		NORTHING	EASTING
Ⓐ	130+84.85 CC = 30+00.00 ER	748447.66	1872874.06
Ⓑ	131+37.64 CC = 40+00.00 EL	748491.44	1872902.39
Ⓒ	132+53.70 CC = 60+00.00 NR	748596.15	1872870.95
Ⓓ	132+92.67 CC = 70+00.00 NL	748614.17	1872836.68
Ⓔ	134+19.05 CC = 93+19.85 WL	748572.28	1872726.68
Ⓕ	134+66.86 CC = 103+15.26 WR	748527.25	1872712.07
Ⓖ	135+73.38 CC = 121+74.46 SL	748437.30	1872758.65
Ⓗ	136+11.23 CC = 11+83.64 SR	748424.30	1872793.95



REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
WR	101+18.52	748597.44	1872528.69	14°28'07"	29°44'23"	105.41	205.55	396.00	100+13.38	102+18.93
	102+61.14	748568.80	1872673.23	43°44'14"	35°43'16"	42.21	81.67	131.00	102+18.93	103+00.60
SW	110+48.62	748320.06	1872672.67	17°41'02"	17°04'12"	48.62	96.53	324.00	110+00.00	110+96.53
	111+47.55	748403.67	1872726.88	38°11'50"	37°34'13"	51.02	98.36	150.00	110+96.53	111+94.89
	112+12.33	748471.91	1872721.37	114°35'30"	38°27'34"	17.44	33.56	50.00	111+94.89	112+28.45
	113+04.68	748540.34	1872657.41	57°17'45"	35°43'16"	32.22	62.35	100.00	112+72.45	113+34.80
	114+03.45	748559.94	1872558.46	15°41'51"	21°18'12"	68.65	135.71	365.00	113+34.80	114+70.51
SL	120+77.76	748339.85	1872734.01	31°39'18"	35°44'07"	58.35	112.89	181.00	120+19.41	121+32.30

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
SR	10+46.08	748311.80	1872716.20	33°30'23"	21°28'53"	32.44	64.11	171.00	10+13.64	10+77.75
	11+47.52	748401.67	1872764.89	47°21'07"	23°38'27"	25.32	49.93	121.00	11+22.20	11+72.12
SE	20+43.29	748419.37	1872838.06	114°35'30"	44°08'27"	20.27	38.52	50.00	20+23.01	20+61.53
ER	30+90.67	748433.00	1872963.47	32°00'32"	04°13'17"	6.60	13.19	179.00	30+84.08	30+97.26

FOR DETAILS "N", "E", "S", "W", "SE" AND "NW" SEE SHEET P.4
FOR U.S.R.62 AND MORSE ROAD DETAILS SEE SHEET P.2

FRA-62-26.34

MODEL: SP1311-14a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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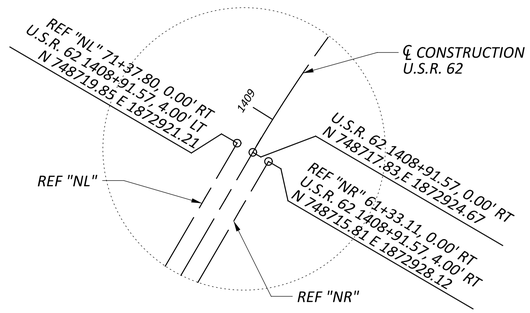
SP 1311-14(a)
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
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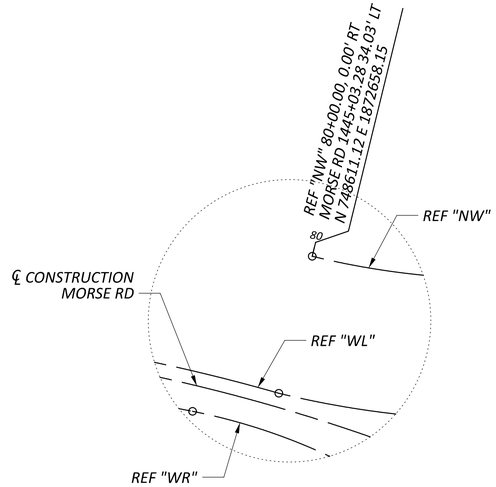
ROUNDABOUT GEOMETRIC LAYOUT

DESIGN AGENCY

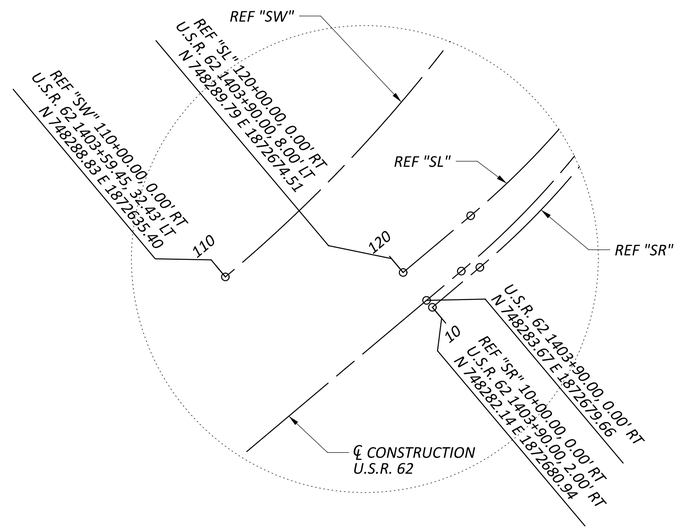
DESIGNER PHD
REVIEWER HOC 01/17/25
PROJECT ID 131114
SHEET P.3 TOTAL 301



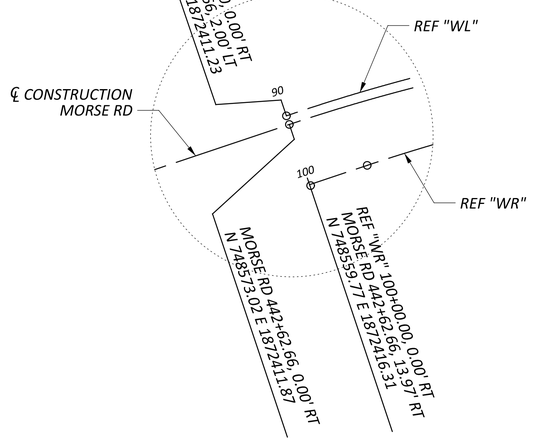
DETAIL "N"
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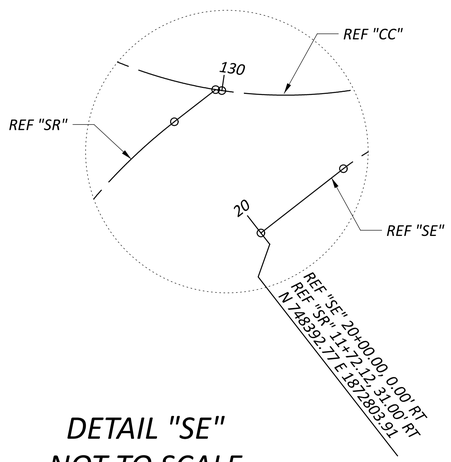
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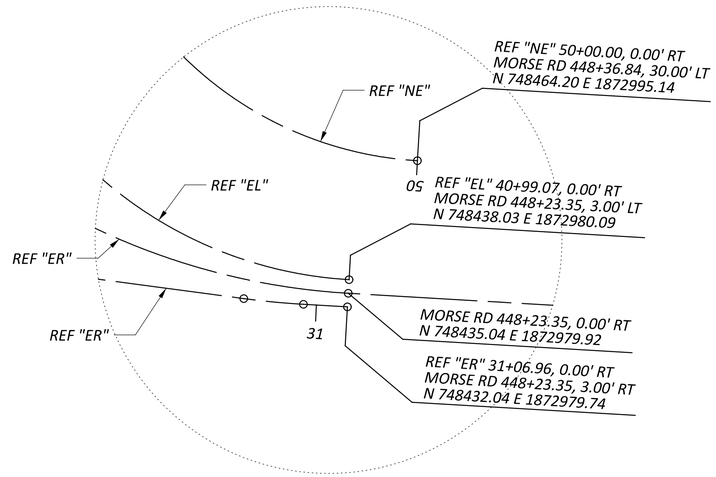
DETAIL "S"
NOT TO SCALE



DETAIL "W"
NOT TO SCALE



DETAIL "SE"
NOT TO SCALE



DETAIL "E"
NOT TO SCALE

ROUNDABOUT GEOMETRIC LAYOUT

DESIGN AGENCY

DESIGNER
PHD

REVIEWER
HOC 01/17/25

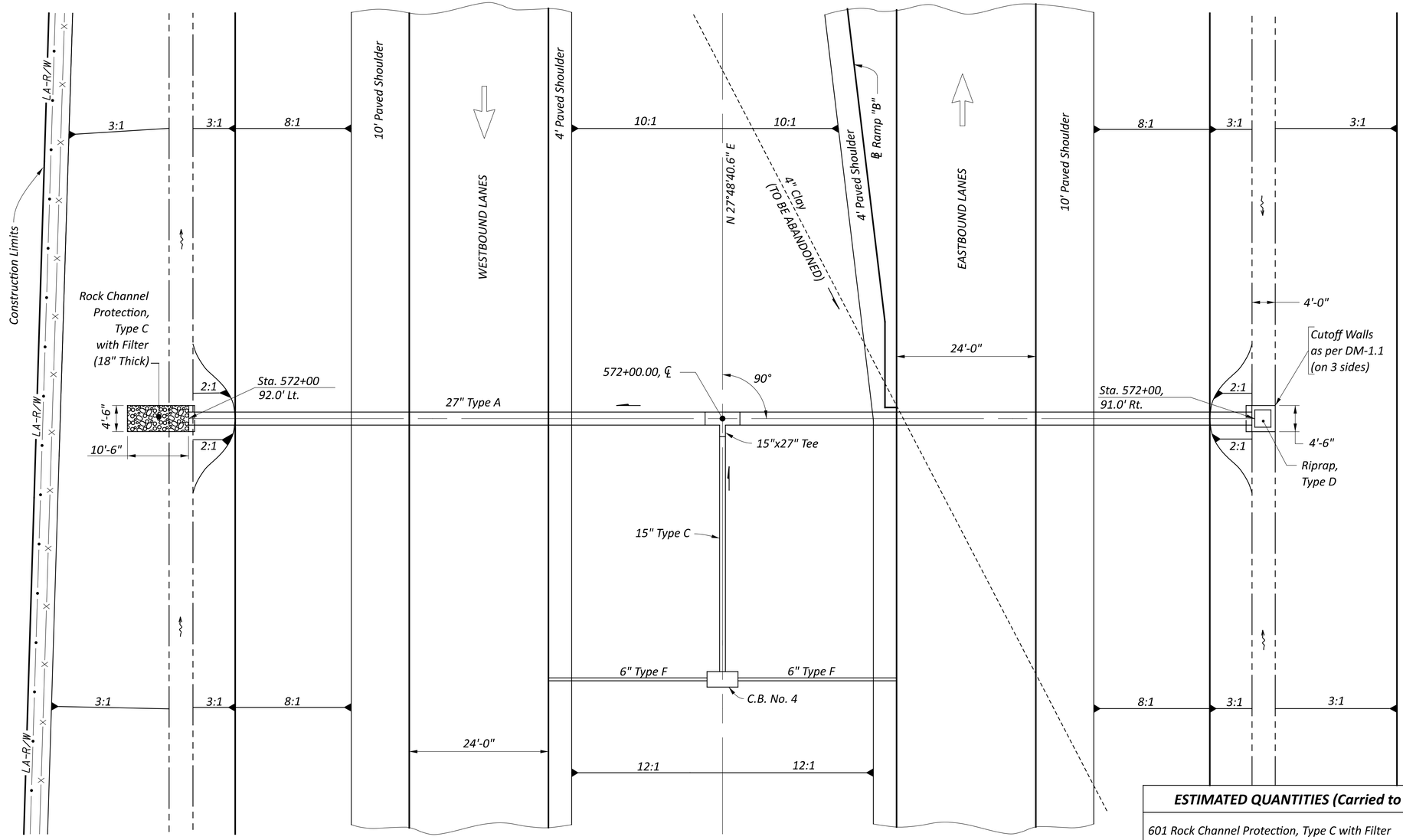
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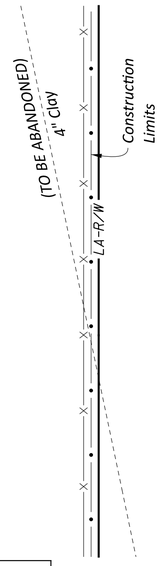
SHEET P.4 | TOTAL 301

FRA-62-26.34

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SP 1312-1
DATE: JANUARY 2025



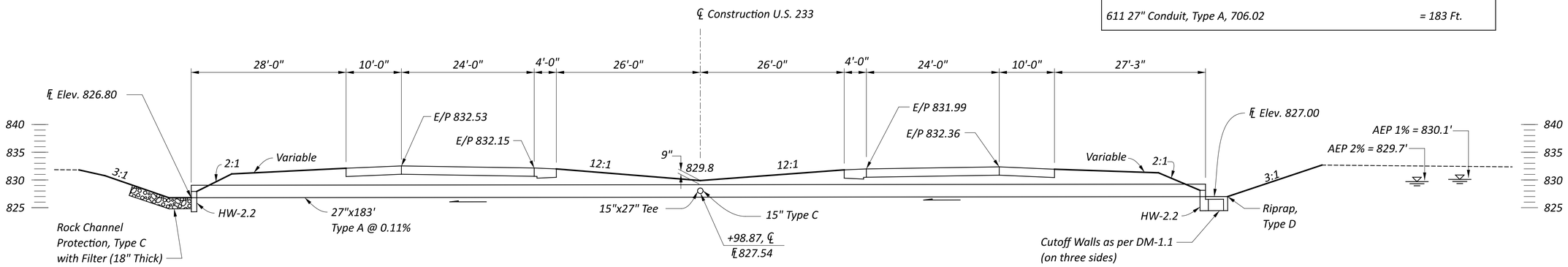


HYDRAULIC DESIGN DATA

Drainage Area	= 28 Ac.
Q (2%)	= 22 cfs
Q (1%)	= 25 cfs
HW (2%)	= 829.7'
HW (1%)	= 830.1'
V (2%)	= 5.6 fps
V (1%)	= 6.1 fps
Ordinary High Water Mark	= 827.3'
Design Service Life	= 75 Yr.
pH	= 7.8
Abrasion Level: 4	
CFN	= 1234567

ESTIMATED QUANTITIES (Carried to General Summary)

601 Rock Channel Protection, Type C with Filter	= 2.8 Cu.Yd.
601 Riprap, Type D	= 2.0 Sq.Yd.
602 Concrete Masonry	= 1.2 Cu.Yd.
611 27" Conduit, Type A, 706.02	= 183 Ft.



HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAILS
U.S. 233 - STA. 572+00

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER
DMK

REVIEWER
CML 01/17/25

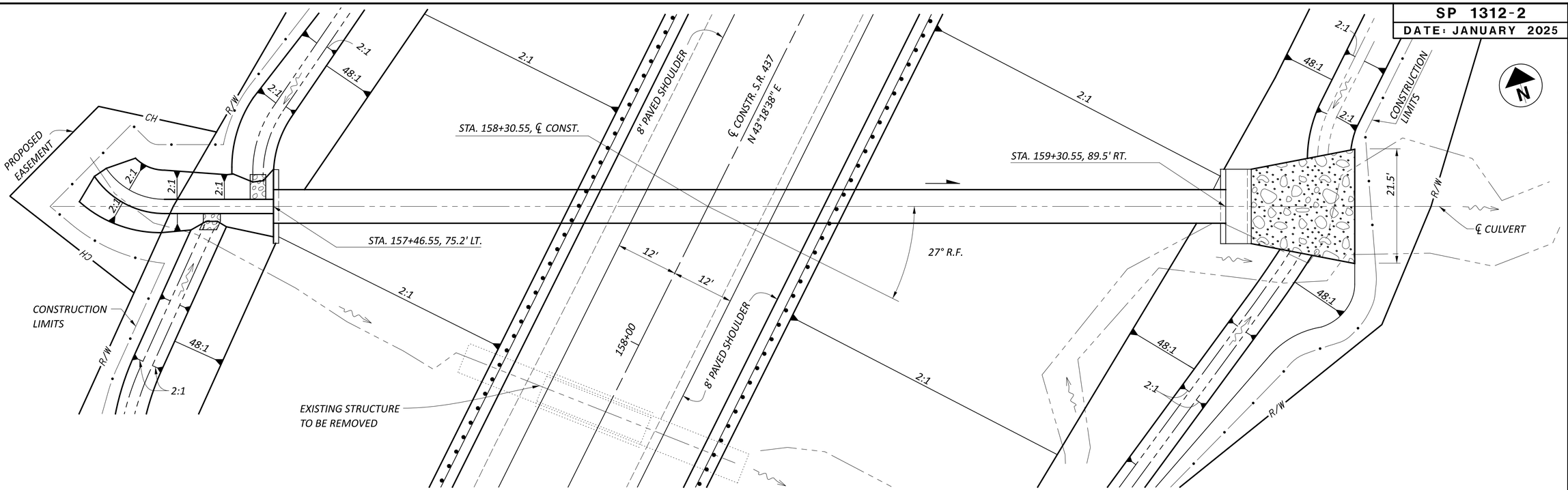
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131201

SHEET P.283 | TOTAL 586

ALL-233-22.69

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SP 1312-2
DATE: JANUARY 2025



HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAIL STA. 158+30.00

HYDRAULIC DATA

DRAINAGE AREA = 108 AC.
ORDINARY HIGH WATER MARK = 810.3 FT.
DESIGN SERVICE LIFE = 75 YEARS
ABRASION LEVEL = 3

pH = 7.5	HW (4%) = 815.6'
CFN = 1234567	HW (1%) = 817.6'
Q (4%) = 188 cfs	V (4%) = 16.0 fps
Q (1%) = 260 cfs	V (1%) = 18.5 fps

EXISTING STRUCTURE

TYPE: STONE ARCH W/72" CMP EXTENSIONS
SIZE: 6'X5'X58' ARCH
SKEW: 27° R.F.
ALIGNMENT: TANGENT
DATE BUILT: 1908
CONDITION: POOR
CFN: 7654321

PROPOSED STRUCTURE

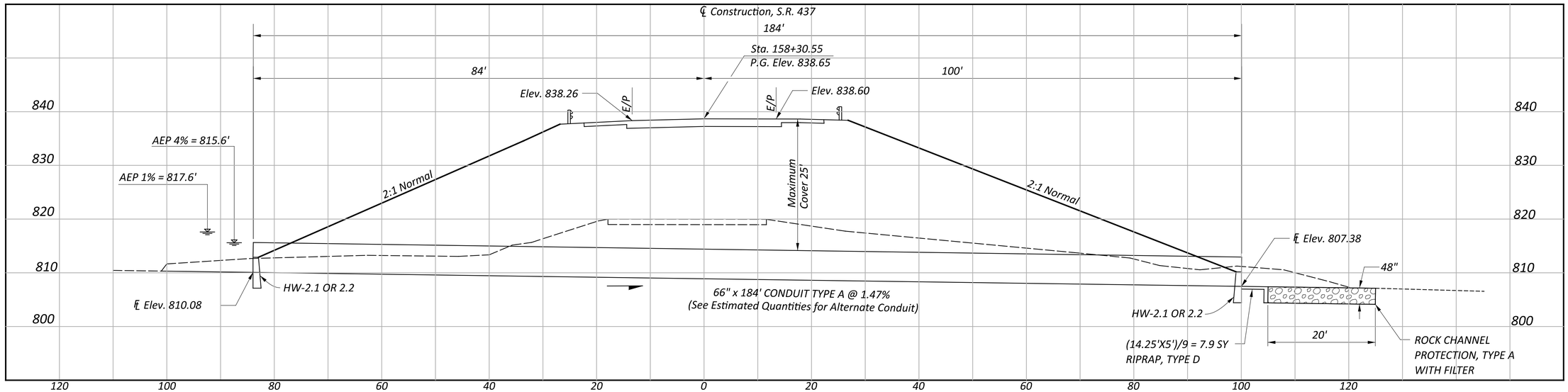
TYPE: 66" CONDUIT, TYPE A, 706.02 OR 78" 707.02 (0.064) ALUMINIZED, 707.03 (0.138) W/CIP, 707.07 (0.109) GALVANIZED, 707.21 W/CIP
SKEW: 27° R.F.
ALIGNMENT: TANGENT
CFN: 1234567

QUANTITIES CARRIED TO DRAINAGE SUBSUMMARY, SHEET P.37

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	LS		STRUCTURE REMOVED
601	60	CY	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER
601	8	SY	RIPRAP
602	5.9	CY	CONCRETE MASONRY
611	184	FT	66" CONDUIT, TYPE A, 706.02 OR 78" 707.02 (0.064) ALUMINIZED, 707.03 (0.138) W/CIP, 707.07 (0.109) GALVANIZED, 707.21 W/CIP
670	72	SY	DITCH EROSION PROTECTION MAT TYPE C

CIP = CONCRETE INVERT PAVING



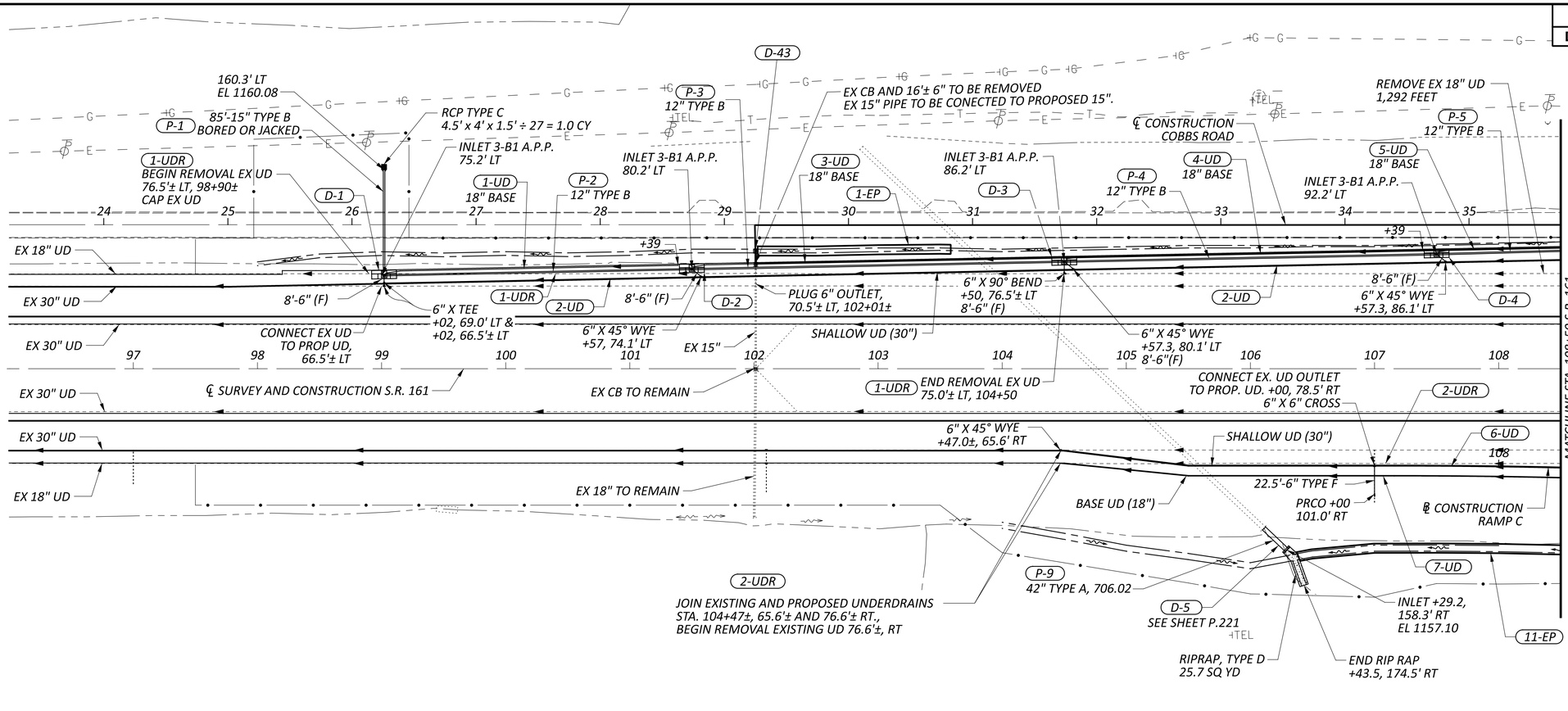
DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER JOH
REVIEWER JDH 01/17/25
PROJECT ID 131202
SHEET P.41 TOTAL 121

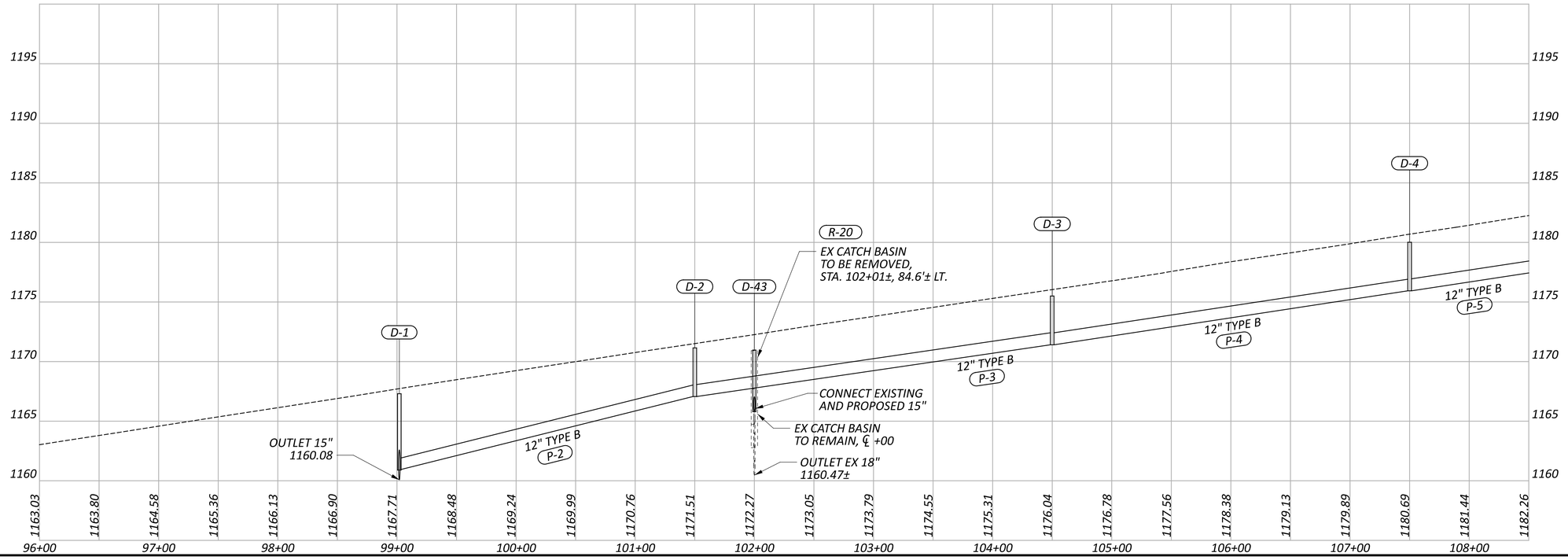
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SP 1312-3
DATE: JANUARY 2025



FOR DETAILED STORM SEWER PROFILE, SEE SHEET P.293.



HORIZONTAL SCALE IN FEET
0 25 50 100

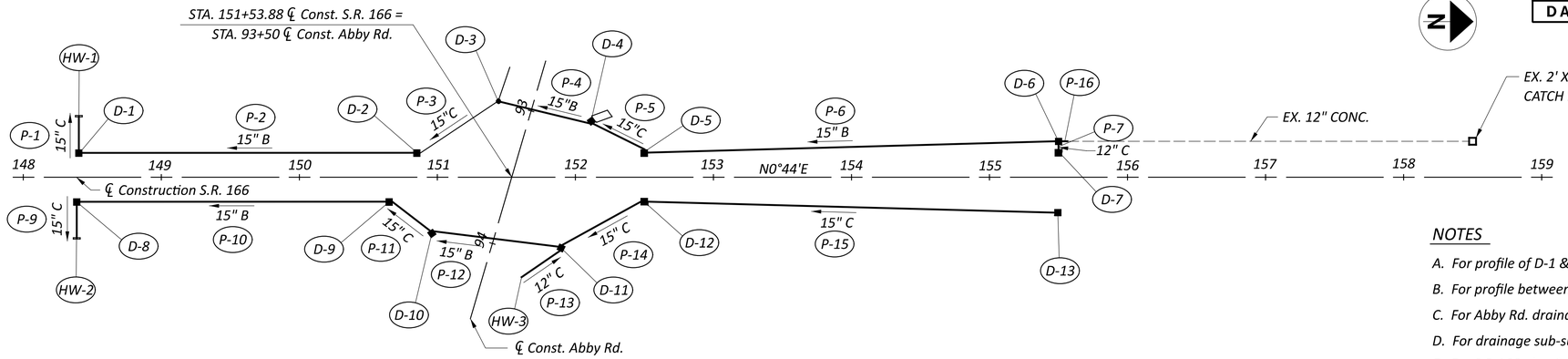
S.R. 161 DRAINAGE PLAN AND PROFILE STA. 96+00 TO STA. 108+50

DESIGN AGENCY

DESIGNER RJG
REVIEWER HAG 01/17/25
PROJECT ID 131203
SHEET P.206 TOTAL 336

LIC-161-1.83

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NOTES

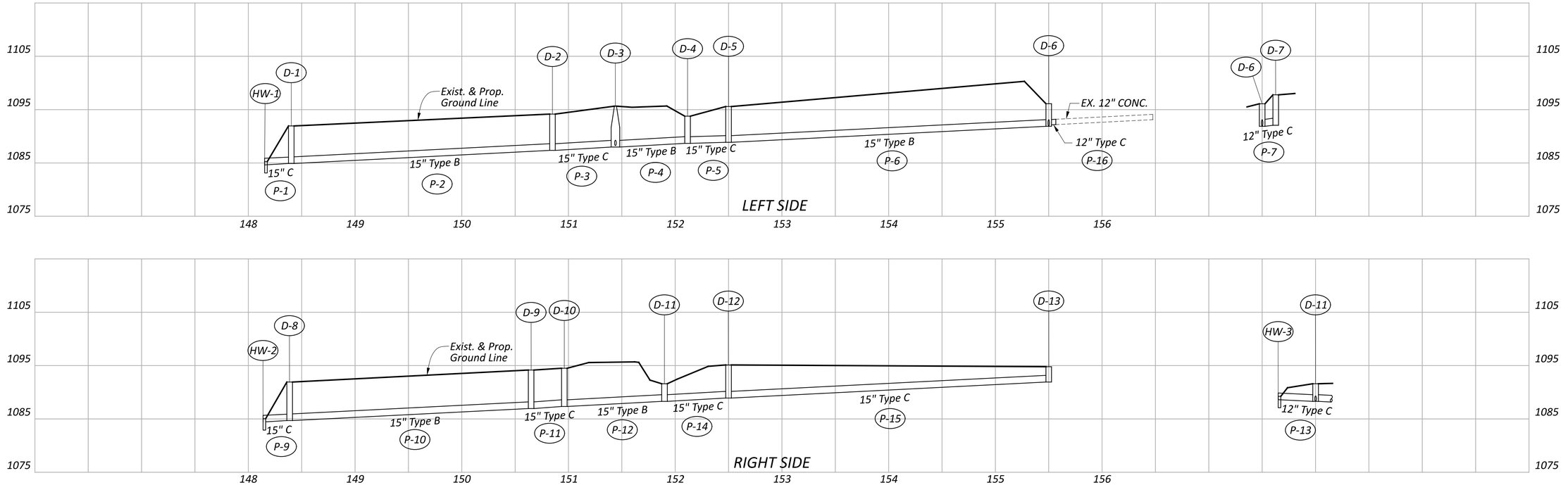
A. For profile of D-1 & D-2 outlets, see sheet P.20.
B. For profile between D-11 & D13, see sheet P.26.
C. For Abby Rd. drainage profile, see sheet P.41.
D. For drainage sub-summary, see sheets P.14-P.16.
E. For S.R.166 plan & profile, see sheets P.17-P.19.

DRAINAGE CONDUIT DETAILS

REF. NO.	CFN	LENGTH (FT)	SIZE	TYPE	SLOPE	START STRUCT. REF. NO.	START INVERT ELEV.	STOP STRUCT. REF. NO.	STOP INVERT ELEV.	EXISTING DISPOSITION
P-1	N/A	25.00	15"	TYPE C	2.30%	HW-1	1084.30	D-1	1084.88	
P-2	1250051	245.00	15"	TYPE B	1.00%	D-1	1084.92	D-2	1087.33	
P-3	N/A	70.00	15"	TYPE C	1.00%	D-2	1087.37	D-3	1087.96	
P-4	1250053	69.00	15"	TYPE B	1.00%	D-3	1088.00	D-4	1088.65	
P-5	N/A	45.00	15"	TYPE C	1.00%	D-4	1088.68	D-5	1088.85	
P-6	1250055	300.00	15"	TYPE B	1.00%	D-5	1088.89	D-6	1091.85	
P-7	N/A	9.00	12"	TYPE C	6.00%	D-6	1092.14	D-7	1092.67	
P-9	N/A	25.00	15"	TYPE C	1.00%	HW-2	1084.42	D-8	1084.67	
P-10	1250058	227.00	15"	TYPE B	1.00%	D-8	1084.71	D-9	1086.94	
P-11	N/A	38.00	15"	TYPE C	1.00%	D-9	1086.98	D-10	1087.32	
P-12	1250060	95.00	15"	TYPE B	1.00%	D-10	1087.36	D-11	1088.19	
P-13	N/A	35.00	12"	TYPE C	1.00%	HW-3	1088.48	D-11	1088.83	
P-14	N/A	68.00	15"	TYPE C	1.00%	D-11	1088.23	D-12	1088.90	
P-15	N/A	300.00	15"	TYPE C	1.00%	D-12	1088.94	D-13	1091.90	
P-16	N/A	4.00	12"	TYPE C	1.00%±	D-6	1091.89	MATCH EX.	1091.93±	

DRAINAGE STRUCTURE DETAILS

REF. NO.	REFERENCE ALIGNMENT	STATION	OFFSET	SIDE	TYPE	GRATE/RIM ELEV.	INVERT ELEV.	CONNECTED PIPES	EXISTING DISPOSITION
D-1	S.R. 166	148+40.25	18.0'	LT.	CB-3A	1091.94	1084.88	(IN) P-2 N 15" 1084.92, (OUT) P-1 W 15" 1084.88, (IN) UD-1 E 6" 1087.40	
D-2	S.R. 166	150+85.00	18.0'	LT.	CB-3A	1094.16	1087.33	(IN) P-3 N 15" 1087.37, (OUT) P-2 S 15" 1087.33, (IN) UD-3 W 6" 1089.49	
D-3	S.R. 166	151+44.00	55.1'	LT.	MH-1	1095.65	1087.96	(IN) P-4 N 15" 1088.00, (OUT) P-3 SE 15" 1087.96, (IN) UD-5 W 12" 1088.25	
D-4	S.R. 166	152+11.60	40.6'	LT.	CB-2-2B	1093.77	1088.65	(IN) P-5 NE 15" 1088.68, (OUT) P-4 S 15" 1088.65	
D-5	S.R. 166	152+50.00	18.0'	LT.	CB-3A	1095.58	1088.85	(IN) P-6 N 15" 1088.89, (OUT) P-5 S 15" 1088.85, (IN) UD-7 E 6" 1091.85	
D-6	S.R. 166	155+50.00	27.0'	LT.	CB-5, APP	1096.10	1091.85	(IN) P-16 N 12" 1091.89, (IN) P-7 E 12" 1092.14, (OUT) P-6 S 15" 1091.85	
D-7	S.R. 166	155+50.00	18.0'	LT.	CB-3A	1098.38	1092.67	(OUT) P-7 W 12" 1092.67, (IN) UD-10 E 6" 1093.86	
D-8	S.R. 166	148+38.75	18.0'	RT.	CB-3A	1091.92	1084.67	(IN) P-10 N 15" 1084.71, (OUT) P-9 E 15" 1084.67, (IN) UD-2 W 6" 1087.39	
D-9	S.R. 166	150+66.00	18.0'	RT.	CB-3A	1093.97	1086.94	(IN) P-11 NE 15" 1086.98, (OUT) P-10 S 15" 1086.94, (IN) UD-4 W 6" 1089.27	
D-10	S.R. 166	150+96.10	40.7'	RT.	CB-2-3	1094.50	1087.32	(IN) P-12 N 15" 1087.36, (OUT) P-11 SW 15" 1087.32	
D-11	S.R. 166	151+90.00	52.5'	RT.	CB-5	1091.60	1088.19	(IN) P-14 NW 15" 1088.23, (OUT) P-13 S 15" 1088.19, (IN) UD-6 SE 12" 1088.48	
D-12	S.R. 166	152+50.00	18'.0	RT.	CB-3A	1095.60	1088.90	(IN) P-15 N 15" 1088.94, (OUT) P-14 S 15" 1088.90, (IN) UD-8 W 6" 1091.05	
D-13	S.R. 166	155+50.00	26.0'	RT.	CB-5	1094.80	1091.90	(OUT) P-15 S 15" 1091.90, (IN) UD-9 W 6" 1092.96	



HORIZONTAL SCALE IN FEET
0 25 50 100

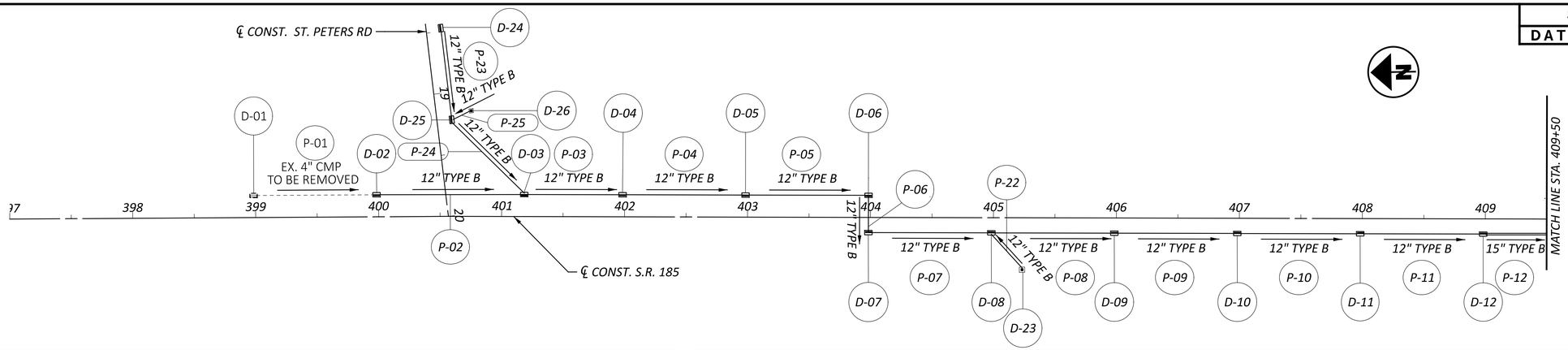
S.R. 166 DRAINAGE PROFILE

DESIGN AGENCY

DESIGNER MSQ
REVIEWER PDG 01/17/25
PROJECT ID 131204
SHEET P.40 TOTAL 82

RIC-166-8.37

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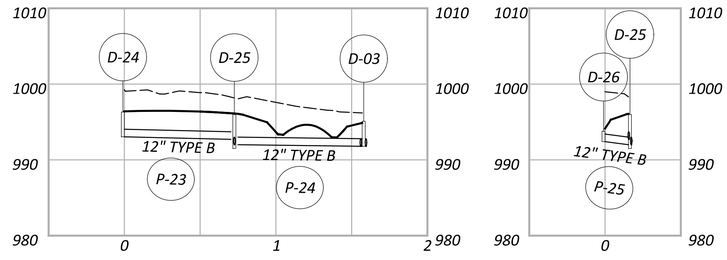


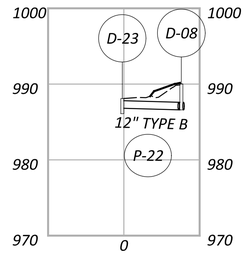
DRAINAGE CONDUIT DETAILS

REF. NO.	CFN	LENGTH (FT)	SIZE	TYPE	SLOPE	START STRUCT. REF. NO.	START INVERT ELEV.	STOP STRUCT. REF. NO.	STOP INVERT ELEV.	EXISTING DISPOSITION
P-01		100.00	4"	EX. CMP	1.16 %	D-01	993.95	D-02	992.79	TO BE REMOVED
P-02	1111102	120.00	12"	TYPE B	0.59 %	D-02	992.50	D-03	991.79	
P-03	1111103	80.00	12"	TYPE B	1.16 %	D-03	991.79	D-04	990.86	
P-04	1111104	100.00	12"	TYPE B	1.22 %	D-04	990.86	D-05	989.64	
P-05	1111105	100.00	12"	TYPE B	1.42 %	D-05	989.64	D-06	988.22	
P-06	1111106	30.00	12"	TYPE B	0.73 %	D-06	988.22	D-07	988.00	
P-07	1111107	100.00	12"	TYPE B	1.40 %	D-07	988.00	D-08	986.60	
P-08	1111108	100.00	12"	TYPE B	1.64 %	D-08	986.60	D-09	984.96	
P-09	1111109	100.00	12"	TYPE B	1.64 %	D-09	984.96	D-10	983.32	
P-10	1111110	100.00	12"	TYPE B	1.64 %	D-10	983.32	D-11	981.68	
P-11	1111111	100.00	12"	TYPE B	1.61 %	D-11	981.68	D-12	980.07	
P-12	1111112	100.00	12"	TYPE B	1.04 %	D-12	980.07	D-13	979.03	
P-22	1111122	39.00	12"	TYPE B	0.51 %	D-23	986.80	D-08	986.60	
P-23	1111123	75.00	12"	TYPE B	0.44 %	D-24	993.04	D-25	992.71	
P-24	1111124	85.00	12"	TYPE B	0.25 %	D-25	992.00	D-03	991.79	
P-25	1111125	18.00	15"	TYPE B	2.29 %	D-26	992.40	D-25	992.00	

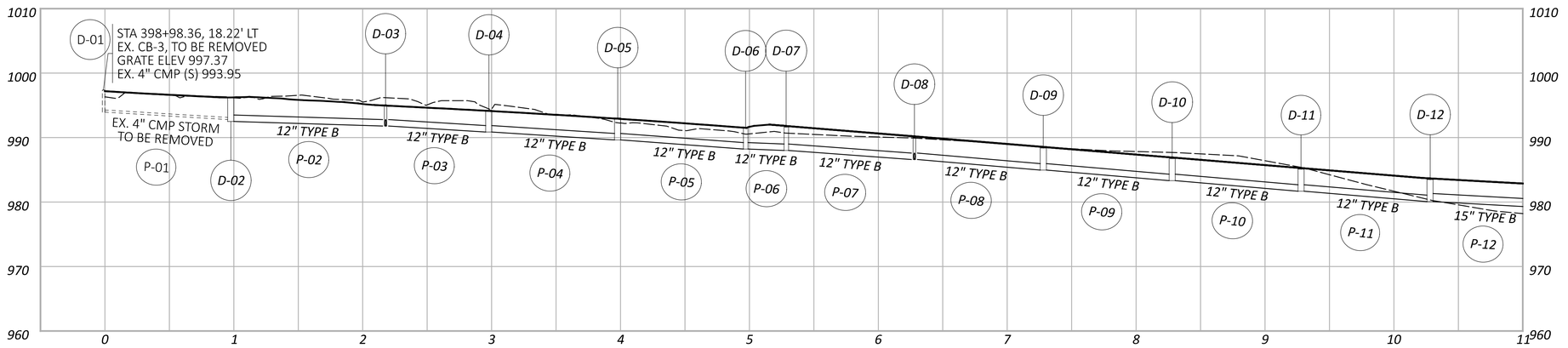
DRAINAGE STRUCTURE DETAILS

REF. NO.	REFERENCE ALIGNMENT	STATION	OFFSET	SIDE	TYPE	GRATE/RIM ELEV.	INVERT ELEV.	CONNECTED PIPES	EXISTING DISPOSITION
D-01	S.R. 185	398+98.36	18.22	LT	EX. CB-3	997.37	993.95	(OUT) P-01 EX. 4" S 993.95	TO BE REMOVED
D-02	S.R. 185	399+98.36	18.23	LT	CB-3	996.30	992.50	(IN) P-01 EX. 4" N 992.79, (OUT) P-02 12" S 992.5	
D-03	S.R. 185	401+18.33	18.21	LT	CB-3	995.10	991.79	(IN) P-24 12" NE 991.79, (IN) P-02 12" N 991.79, (OUT) P-03 12" S 991.79	
D-04	S.R. 185	401+98.34	18.22	LT	CB-3	994.27	990.86	(IN) P-03 12" N 990.86, (OUT) P-04 12" S 990.86	
D-05	S.R. 185	402+98.33	18.21	LT	CB-3	993.06	989.64	(IN) P-04 12" N 989.64, (OUT) P-05 12" S 989.64	
D-06	S.R. 185	403+98.33	18.21	LT	CB-3	991.63	988.22	(IN) U-1 6" E 990.63, (IN) P-05 12" N 988.22, (OUT) P-06 12" W 988.22	
D-07	S.R. 185	403+98.33	12.63	RT	CB-3	991.63	988.00	(IN) U-2 6" W 990.63, (IN) P-06 12" E 988, (OUT) P-07 12" S 988	
D-08	S.R. 185	404+98.32	12.62	RT	CB-3	990.02	986.60	(IN) P-22 12" SW 986.6, (IN) P-07 12" N 986.6, (OUT) P-08 12" S 986.6	
D-09	S.R. 185	405+98.32	12.62	RT	CB-3	988.38	984.96	(IN) P-08 12" N 984.96, (OUT) P-09 12" S 984.96	
D-10	S.R. 185	406+98.33	12.63	RT	CB-3	986.74	983.32	(IN) P-09 12" N 983.32, (OUT) P-10 12" S 983.32	
D-11	S.R. 185	407+98.32	12.62	RT	CB-3	985.10	981.68	(IN) P-10 12" N 981.68, (OUT) P-11 12" S 981.68	
D-12	S.R. 185	408+98.32	12.62	RT	CB-3	983.48	980.07	(IN) P-11 12" N 980.07, (OUT) P-12 12" S 980.07	
D-23	S.R. 185	405+23.33	42.21	RT	CB-2-3	988.10	986.10	(OUT) P-22 12" NE 986.8	
D-24	ST. PETER RD.	18+47.32	12.36	LT	CB-3	996.32	993.04	(OUT) P-23 12" W 993.04	
D-25	ST. PETER RD.	19+22.32	12.35	LT	CB-3	995.99	991.50	(IN) P-23 12" E 992.71, (IN) P-25 12" SE 992, (OUT) P-24 12" SW 992	
D-26	ST. PETER RD.	19+17.02	28.68	LT	CB-2-2A	993.77	992.40	(OUT) P-25 15" NW 992.4	





CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.15	UNDERDRAIN DETAILS



HORIZONTAL SCALE IN FEET
0 25 50 100

DRAINAGE DETAILS

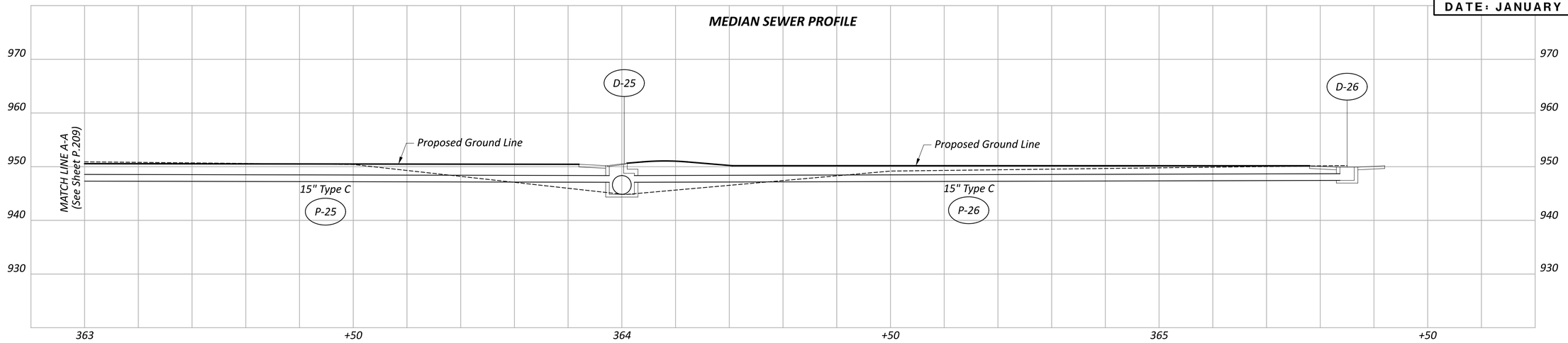
DESIGN AGENCY

DESIGNER JED
REVIEWER ME 11-21-23
PROJECT ID 123456
SHEET P.20 TOTAL 154

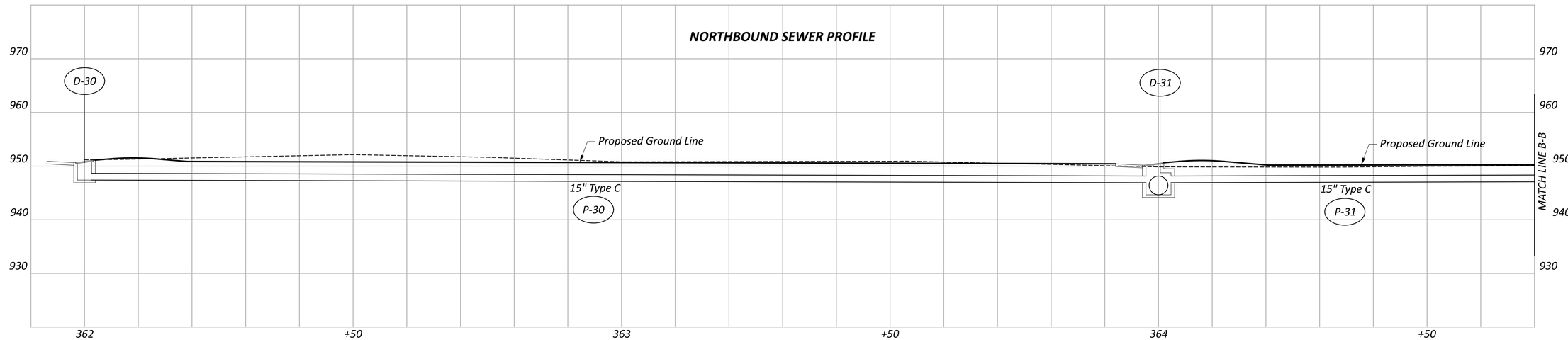
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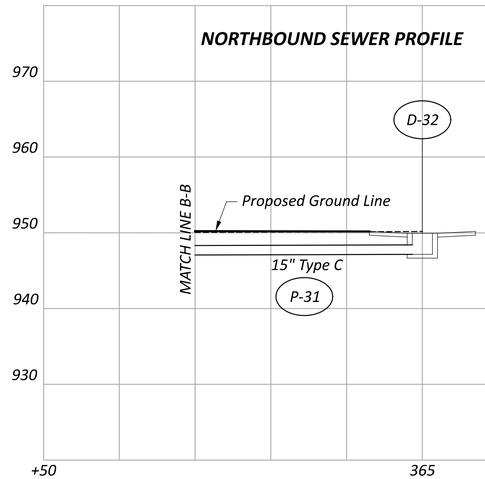
MEDIAN SEWER PROFILE



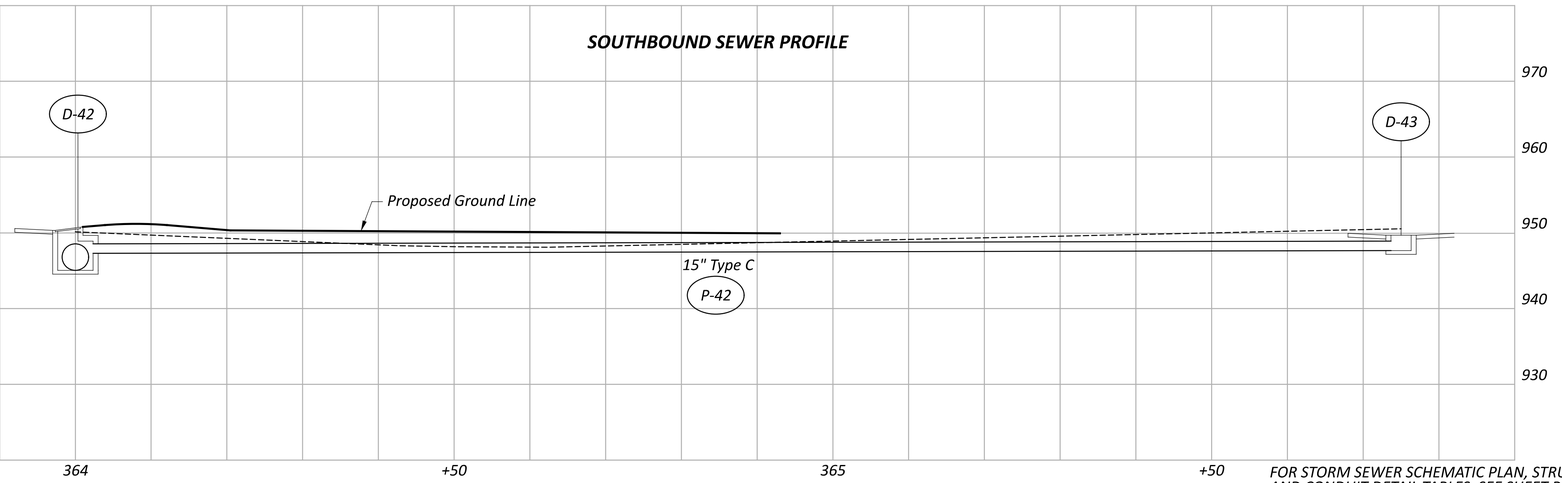
NORTHBOUND SEWER PROFILE



NORTHBOUND SEWER PROFILE



SOUTHBOUND SEWER PROFILE



FOR STORM SEWER SCHEMATIC PLAN, STRUCTURE AND CONDUIT DETAIL TABLES, SEE SHEET P.208.

LONGITUDINAL SEWER PROFILE

DESIGN AGENCY

DESIGNER
MTG

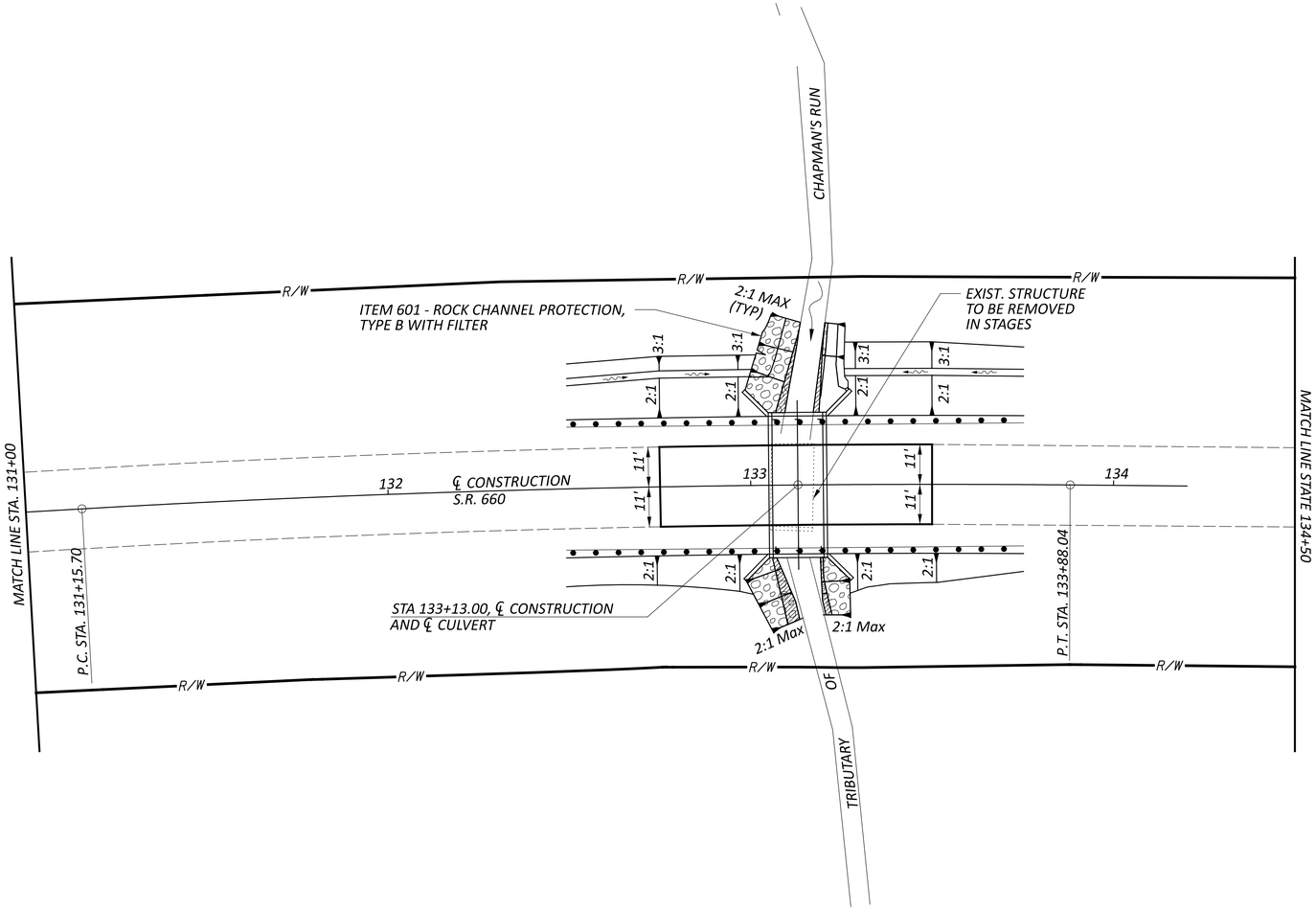
REVIEWER
CJM 01/17/25

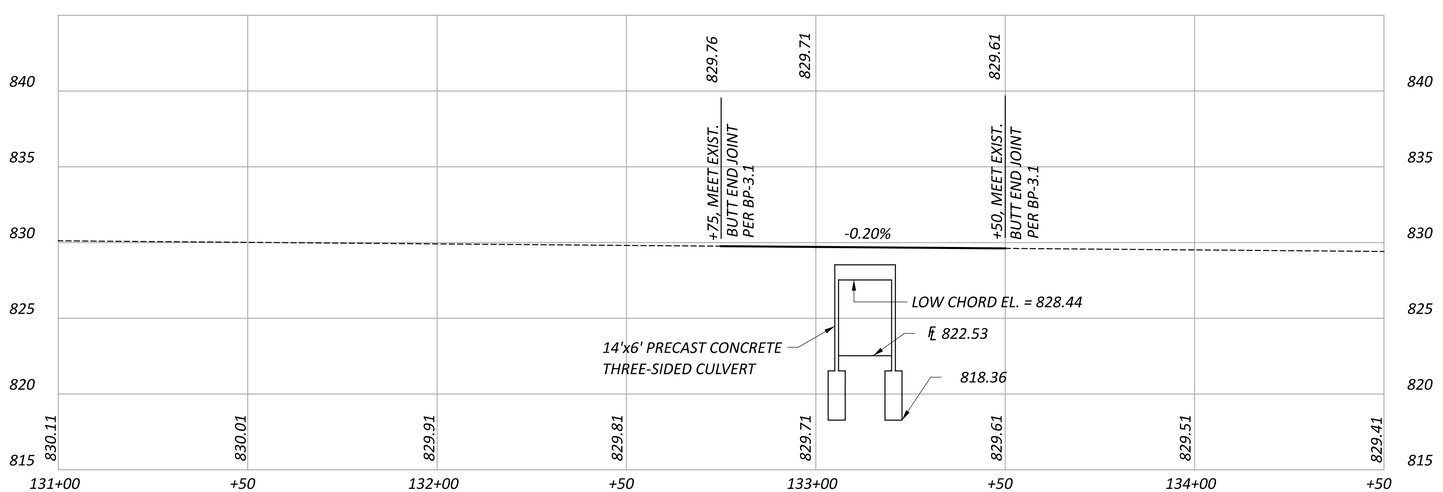
PROJECT ID
131205

SHEET P.210 | TOTAL 488

LUC-76-31.48

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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1312-5.dgn





HYDRAULIC DATA	
DRAINAGE AREA: 0.79 SQ.MI.	
EXISTING WATERWAY OPENING:	60.0 SF
PROPOSED WATERWAY OPENING:	70.0 SF
ORDINARY HIGH WATER MARK:	822.9 FT
SFN: 3006914	
DESIGN SERVICE LIFE: 75 YRS	
Abrasion Level: 3	
Q (10%) = 297 CFS	Q (1%) = 518 CFS
V (10%) = 6.9 FPS	V (1%) = 7.9 FPS
HW (10%) = 827.8	HW (1%) = 829.9

EXISTING STRUCTURE

TYPE: CONCRETE SLAB SUPPORTED ON GRAVITY WALL ABUTMENT
SPAN: 12'-5"
ROADWAY: 22'-5" F/F RAILS
ALIGNMENT: CURVE
APPROACH SLAB: NONE
SUPERELEVATION: VARIES
DATE BUILT: 1900
STRUCTURE FILE NO. 3006514
SKEW: 0° REFERENCE CHORD
DISPOSITION: TO BE REPLACED
LOADING: S-11.3(7)

PROPOSED STRUCTURE

TYPE: PRECAST REINFORCED CONCRETE FLAT-TOPPED THREE-SIDED CULVERT WITH CAST-IN-PLACE WINGWALLS
SPAN: 14'-0" F/F CULVERT
ROADWAY: 34'-0" F/F RAILS
ALIGNMENT: 1°19'11" CURVED TO THE RIGHT
SUPERELEVATION: VARIES
APPROACH SLAB: NONE
SKEW: 0°
WEARING SURFACE: ASPHALT CONCRETE
LOADING: HL93
FUTURE WEARING SURFACE: 60 PSF
SFN: 3006914

HORIZONTAL SCALE IN FEET
0 10 20 40

CULVERT PLAN AND PROFILE
STA. 133+13.00

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER KEW
REVIEWER JOH 01/17/25
PROJECT ID 131206
SUBSET 1 | TOTAL 8
SHEET P.100 | TOTAL 125

GUE-660-2.52

MODEL: SP1312-6a PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HL-93 WITH AN ALLOWANCE OF 0.06 KSF FUTURE WEARING SURFACE.

DESIGN STRESSES:

CAST-IN-PLACE STRUCTURES

CONCRETE CLASS "QC MISC." - f'c = 4,000 psi SUBSTRUCTURE

REINFORCING STEEL - ASTM A615, A616, OR A617

Fy = 60,000 psi.

REMOVAL OF EXISTING STRUCTURE:

PORTIONS OF THE EXISTING STRUCTURE SHALL BE REMOVED AS INDICATED.

FOUNDATION BEARING RESISTANCE:

WINGWALL AND CULVERT FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 3.0 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 4.5 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.8 KIPS PER SQUARE FOOT.

THREE-SIDED CULVERT WALL AND TOP SLAB THICKNESS:

THE WALL AND TOP SLAB THICKNESSES SHOWN ON THE PLANS WERE OBTAINED FROM THE MANUFACTURERS AT THE TIME THE PLANS WERE PREPARED. IF THE WALL AND/OR TOP SLAB THICKNESS OF THE CULVERT PROPOSED ARE DIFFERENT FROM WHAT IS SHOWN IN THE PLANS, A MARKED COPY OF THE PROJECT PLANS, INCLUDING ALL PLAN NOTES AND DETAILS SHOWING ALL ITEMS AFFECTED BY THE DIFFERENT CULVERT DIMENSIONS, SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. ALL WORK REQUIRED TO ACCOMODATE ANY REVISED DIMENSIONS SHALL BE AT NO EXTRA COST TO THE STATE.

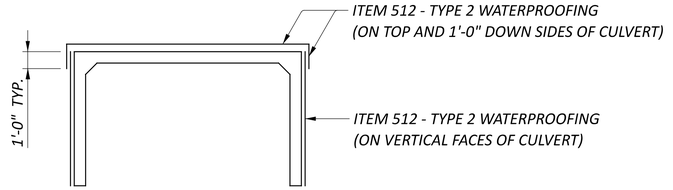
ITEM 512, TYPE 2 WATERPROOFING:

MEMBRANE WATERPROOFING (SHEET TYPE 2) SHALL BE APPLIED TO THE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND VERTICALLY DOWN ALL SIDES FORTH PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. THE EXTERIOR JOINT GAP ON THE TOP AND SIDES BETWEEN THE PRECAST CULVERT SECTIONS SHALL BE FILLED WITH PORTLAND CEMENT MORTAR PRIOR TO INSTALLING THE MEMBRANE WATERPROOFING. JOINT WRAP AS SPECIFIED IN 611.08 AND CONCRETE SEALING AS SPECIFIED IN 611.09 ARE NOT REQUIRED UNDER THE LIMITS OF THE MEMBRANE WATERPROOFING. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512, TYPE 2 WATERPROOFING.

ITEM 511 - CLASS QC1 CONCRETE, HEADWALL:

THE QUANTITY SHOWN FOR THIS PAY ITEM REPRESENTS THE FORESLOPE WALL LOCATED ATOP EACH END OF THE CONDUIT.

WHEN SEALING OF CONCRETE SURFACES (EPOXY) IS SPECIFIED ON THE HEADWALLS OF A PRECAST CONCRETE BOX CULVERT, ANY PRECAST CULVERT SECTIONS BEYOND THE LIMIT OF THE MEMBRANE WATERPROOFING SHALL BE SEALED USING EPOXY SEALER. PAYMENT FOR THE SEALING OF THE PRECAST CONCRETE BOX SURFACES SHALL BE MADE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY URETHANE).



GENERAL SUMMARY (GUE - 660 - 2.52)

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
202	11000	LS	LUMP	STRUCTURE REMOVED
503	21100	67	CY	UNCLASSIFIED EXCAVATION
509	10000	6015	LB	EPOXY COATED REINFORCING STEEL
511	46010	12	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
511	46510	54	CY	CLASS QC1 CONCRETE, FOOTING
511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL
512	33000	128	SY	TYPE 2 WATERPROOFING
512	10100	34	SY	SEALING OF CONCRETE SURFACES (EPOXY URETHANE)
516	13600	27	SF	1" PREFORMED EXPANSION JOINT FILLER
518	21200	16	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
601	32100	57	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
601	34200	43	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER
611	70000	40	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE
				THREE SIDED FLAT TOPPED CULVERT (14'-0" SPAN X 6'-0" RISE)

CULVERT ESTIMATED QUANTITIES
STA. 133+13.00

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER
KEW

REVIEWER
JOH 01/17/25

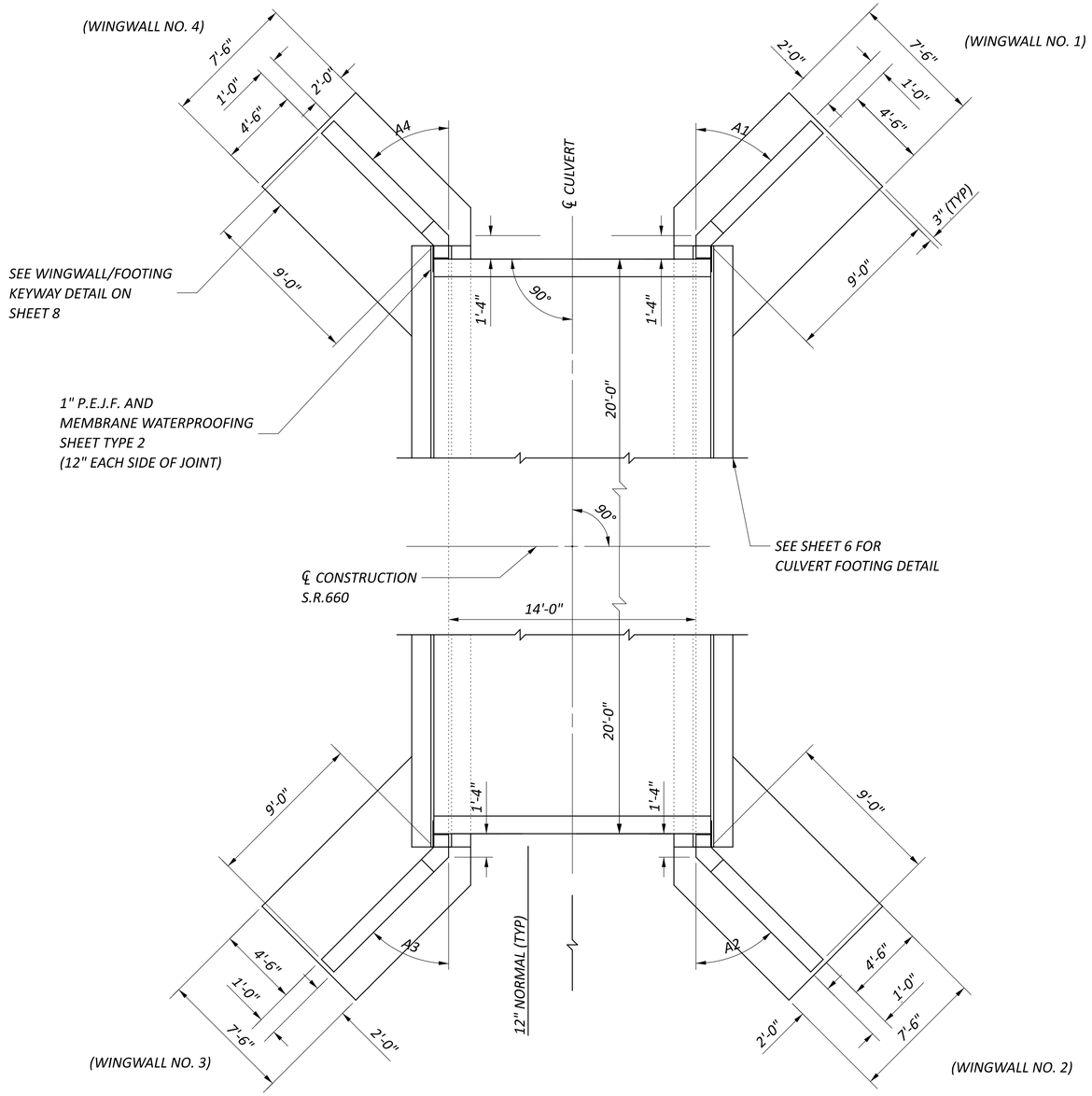
PROJECT ID
131206

SUBSET 2 | TOTAL 8

SHEET P.101 | TOTAL 125

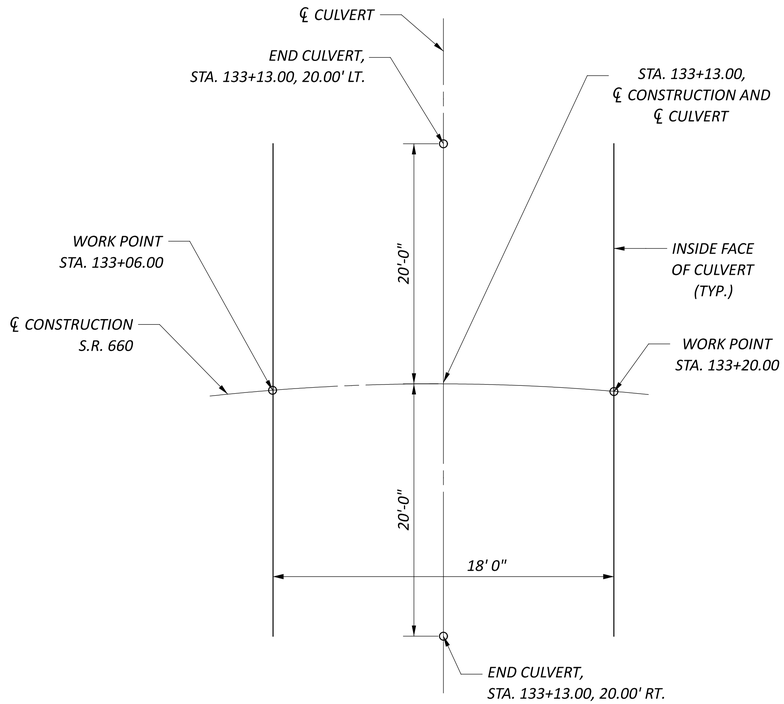
GUE-660-2.52

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CULVERT & WINGWALL LAYOUT

NOTE: SEE TABLE THIS SHEET FOR VALUES OF A1,A2,A3,A4



REFERENCE DIAGRAM

WINGWALL ANGLES	
A1	*45°0'0"*
A2	*45°0'0"*
A3	*45°0'0"*
A4	*45°0'0"*

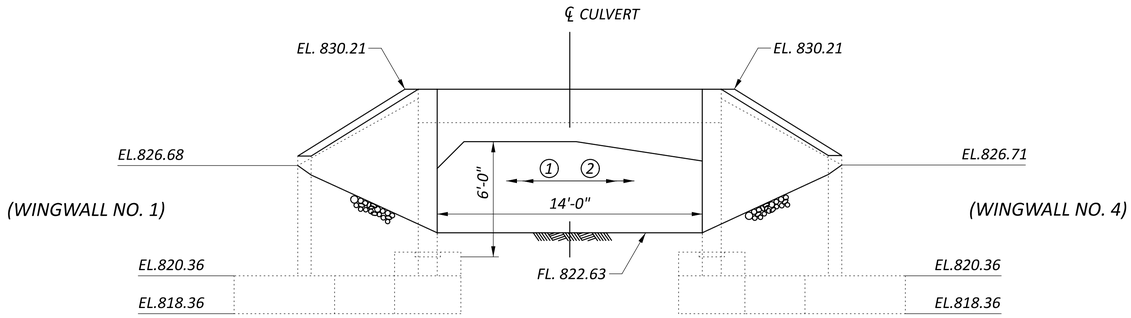
CULVERT LAYOUT
STA. 133+13.00

DESIGN AGENCY

DESIGNER KEW
REVIEWER JOH 01/17/25
PROJECT ID 131206
SUBSET 3 | TOTAL 8
SHEET P.102 | TOTAL 125

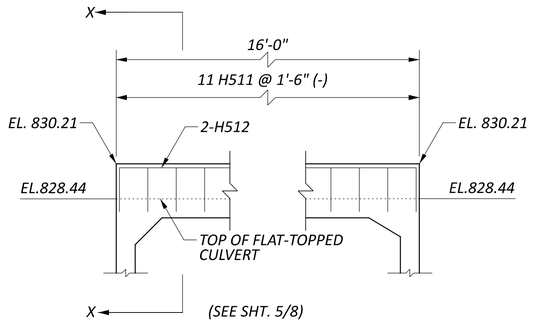
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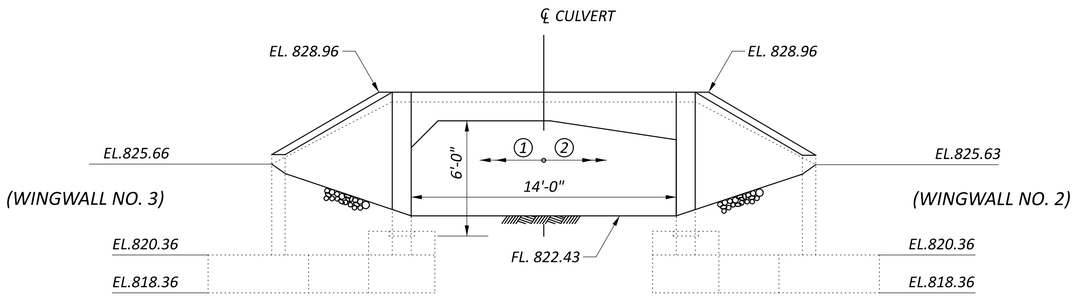


INLET ELEVATION

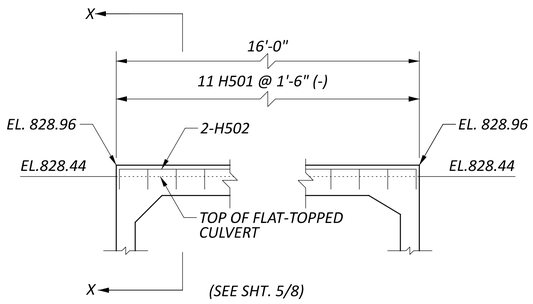
NOTE: ① - SHORT HAUNCH PRECAST UNIT
② - LONG HAUNCH PRECAST UNIT



INLET FORESLOPE WALL REINFORCING DETAIL
(FOR FLAT-TOPPED CULVERTS ONLY)



OUTLET ELEVATION



OUTLET FORESLOPE WALL REINFORCING DETAIL
(FOR FLAT-TOPPED CULVERTS ONLY)

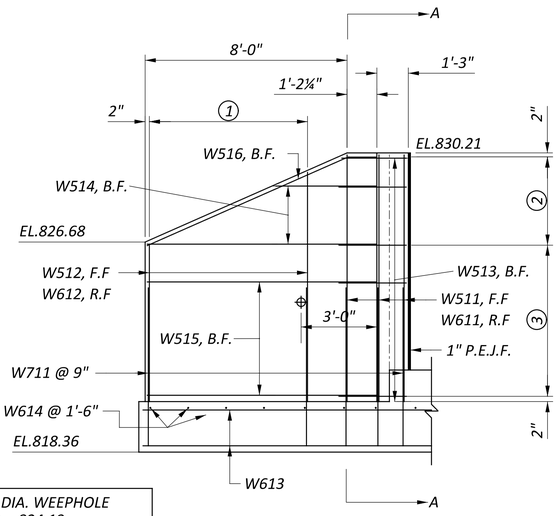
CULVERT ELEVATION
STA. 133+13.00

GUE-660-2.52

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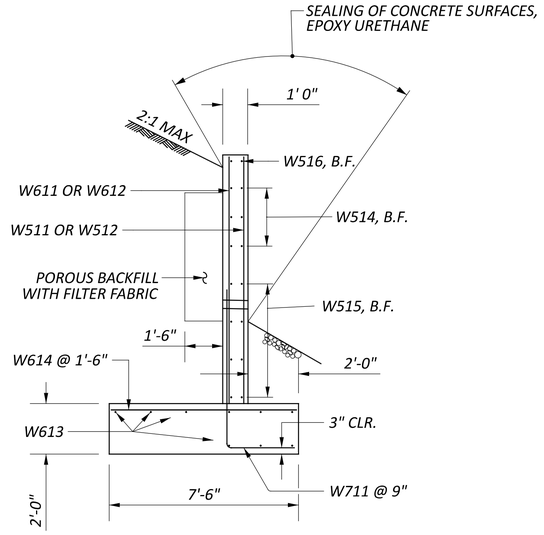
DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER KEW
REVIEWER JOH 01/17/25
PROJECT ID 131206
SUBSET 4 | TOTAL 8
SHEET P.103 | TOTAL 125



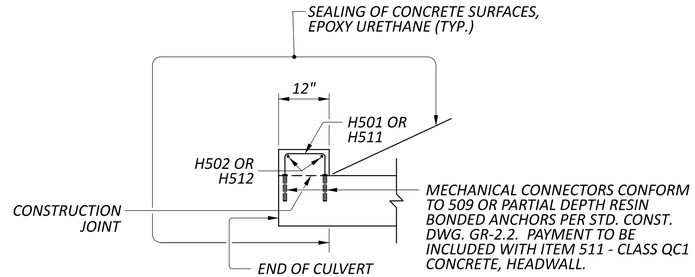
NOTE: 4" DIA. WEEPHOLE
ELEV. = 824.13

WINGWALL 1 ELEVATION

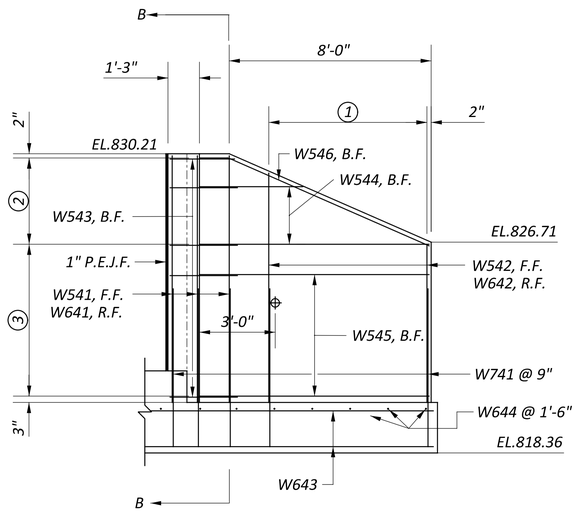


SECTION A-A

LEGEND:
F.F. = FRONT FACE
R.F. = REAR FACE
B.F. = BOTH FACE

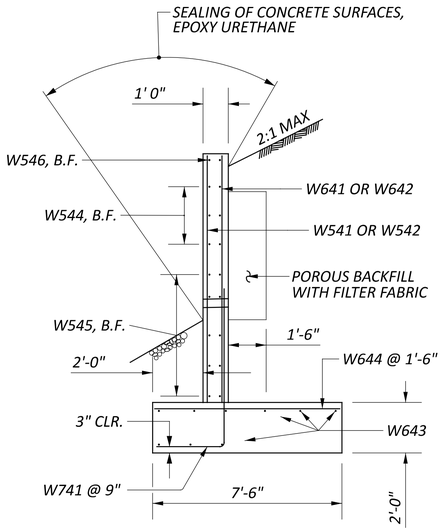


SECTION X-X
FORESLOPE WALL



NOTE: 4" DIA. WEEPHOLE
ELEV. = 824.14

WINGWALL 4 ELEVATION



SECTION B-B

NOTES:

1. ITEM 518 - POROUS BACKFILL W/FILTER FABRIC
   1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND 1' BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL, AND RETURN 6" ABOVE THE WEEPHOLE.

2. 1" PREFORMED EXPANSION JOINT FILLER SHALL BE EXTENDED FROM TOP OF FOOTING TO TOP OF WALL.

(1) SER. OF 5 @ 1'-6"
(2) 3 SPACES @ 1'-1¾"
(3) 4 SPACES @ 1'-6"

(1) SER. OF 5 @ 1'-6"
(2) 3 SPACES @ 1'-1¾"
(3) 5 SPACES @ 1'-2½"

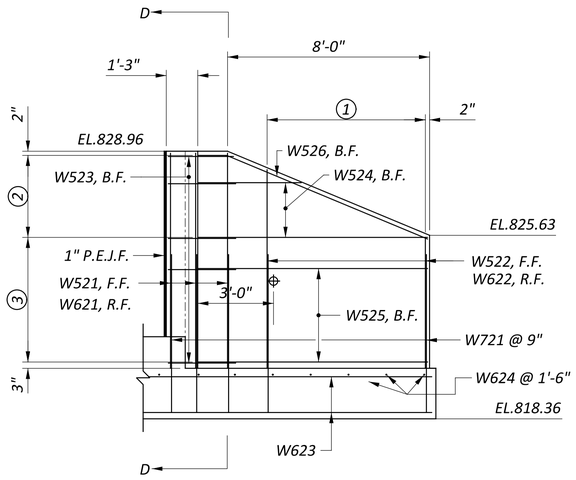
WINGWALL NO. 1 AND 4 DETAILS
STA. 133+13.00

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

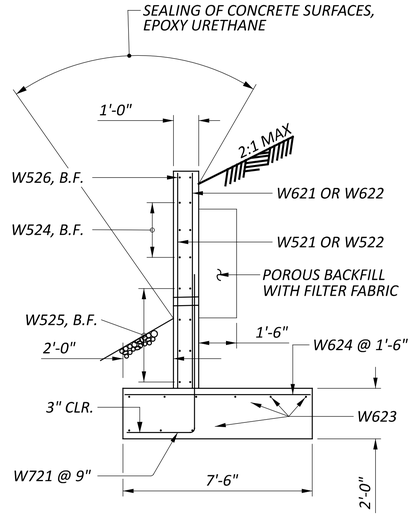
DESIGNER KEW
REVIEWER JOH 01/17/25
PROJECT ID 131206
SUBSET 5 TOTAL 8
SHEET P.104 TOTAL 125

GUE-660-2.52

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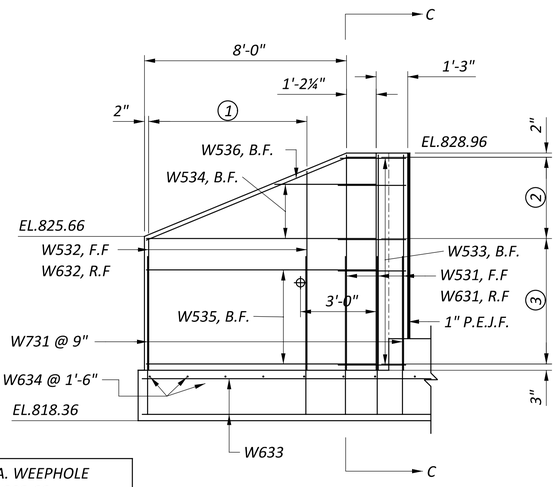
WINGWALL 2 ELEVATION



SECTION D-D

NOTE: 4" DIA. WEEPHOLE
ELEV. = 823.65

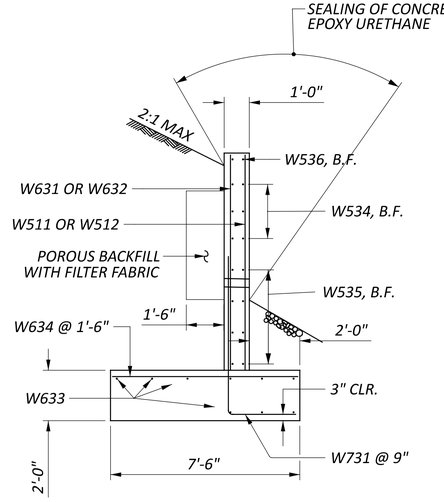
1. SER. OF 5 @ 1'-6"
2. 3 SPACES @ 1'-1"
3. 4 SPACES @ 1'-2¾"



WINGWALL 3 ELEVATION

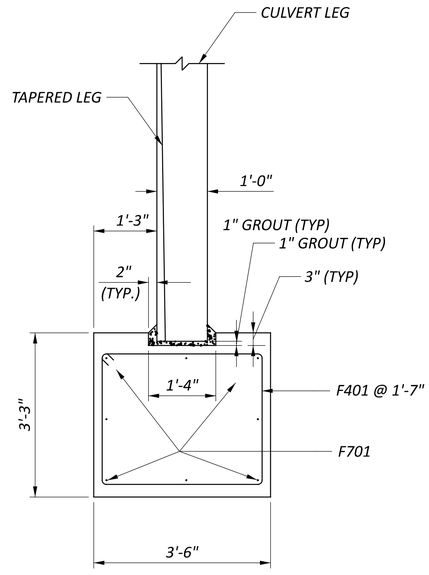
NOTE: 4" DIA. WEEPHOLE
ELEV. = 823.66

1. SER. OF 5 @ 1'-6"
2. 3 SPACES @ 1'-0¾"
3. 4 SPACES @ 1'-3"



SECTION C-C

LEGEND:
F.F. = FRONT FACE
R.F. = REAR FACE
B.F. = BOTH FACE



CULVERT FOOTING SECTION

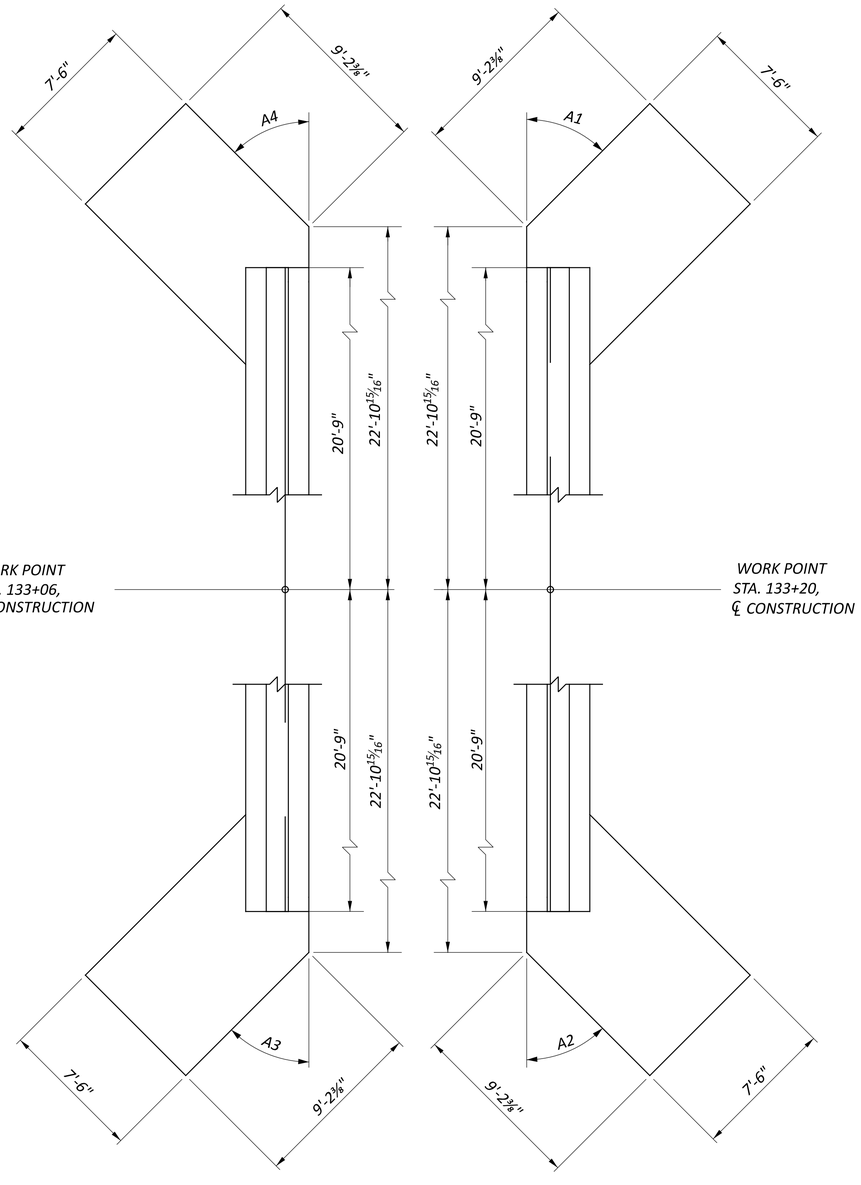
WINGWALL NO. 2 AND 3 DETAILS
STA. 133+13.00

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER
KEW
REVIEWER
JOH 01/17/25
PROJECT ID
131206
SUBSET 6 | TOTAL 8
SHEET P.105 | TOTAL 125

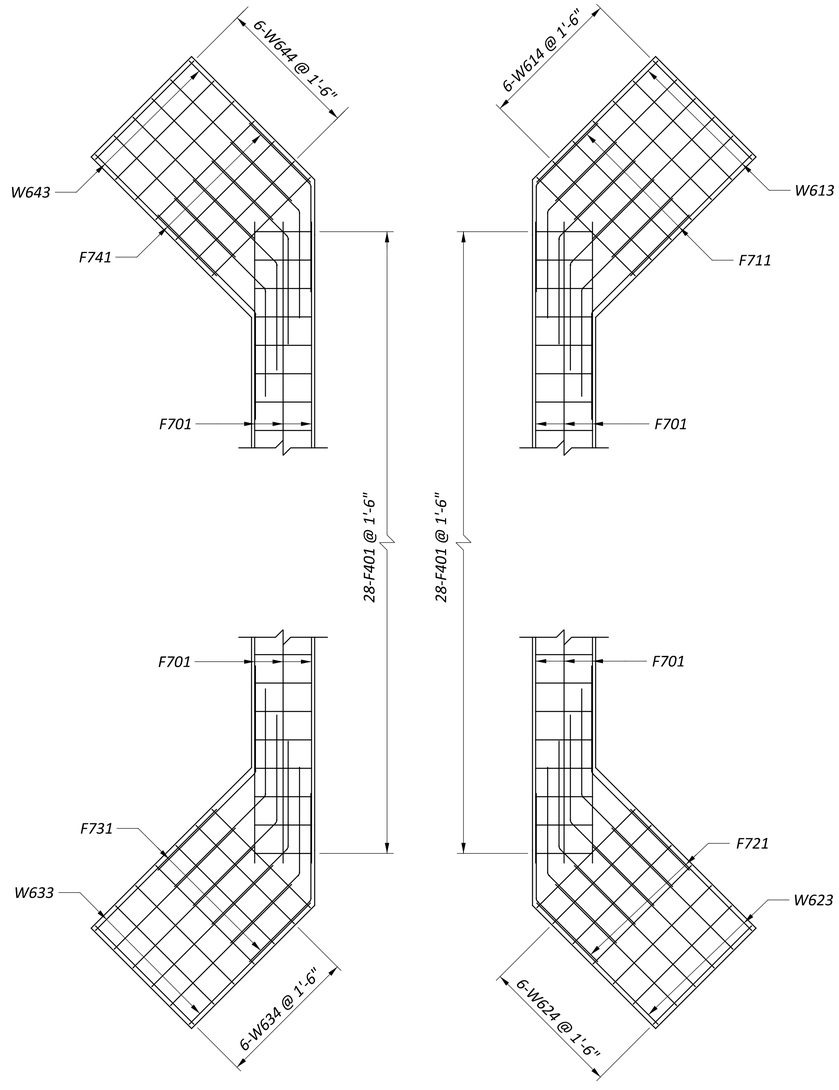
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FOOTING LAYOUT

SEE TABLE ON SHEET 3 FOR VALUES OF A1 THRU A4



FOOTING REINFORCING PLAN

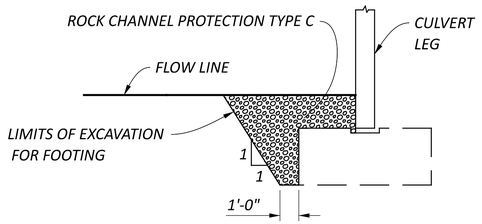
FOOTING DETAILS
STA. 133+13.00

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

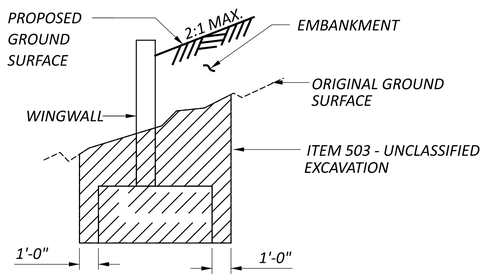
DESIGNER	KEW
REVIEWER	JOH 01/17/25
PROJECT ID	131206
SUBSET / TOTAL	7 / 8
SHEET / TOTAL	P.106 / 125

GUE-660-2.52

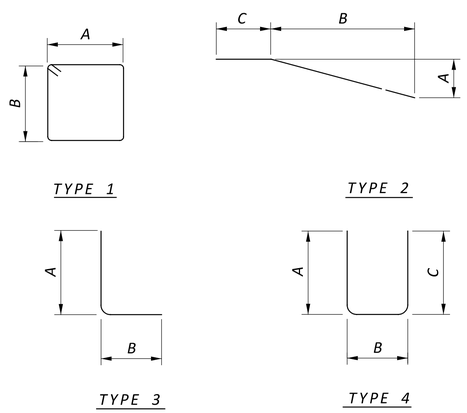
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ROCK CHANNEL PROTECTION INSIDE CULVERT



LIMITS OF UNCLASSIFIED EXCAVATION ON WINGWALL



BENDING DIAGRAMS

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	INCR	REMARKS
				WINGWALL 1					
W511	3	9'-9"	31	STR					
	1	6'-3"							
W512	S.O.	TO	40	STR				0'-9"	
	5	9'-1"							
W513	16	2'-4"	39	2	0'-10"	0'-10"	1'-2"		
	2	4'-0"							
W514	S.O.	TO	41	STR				2'-7"	
	3	9'-1"							
W515	8	9'-1"	76	STR					
W516	2	9'-9"	20	2	3'-4"	7'-11"	1'-2"		
W611	3	9'-9"	44	STR					
	1	6'-3"							
W612	S.O.	TO	58	STR				0'-9"	
	5	9'-1"							
W613	9	9'-0"	122	STR					
W614	6	7'-4"	66	STR					
W711	14	8'-9"	250	3	6'-3"	2'-8"			
				WINGWALL 2					
W521	3	8'-6"	27	STR					
	1	5'-2"							
W522	S.O.	TO	34	STR				0'-8"	
	5	7'-10"							
W523	16	2'-4"	39	2	0'-10"	0'-10"	1'-2"		
	2	4'-1"							
W524	S.O.	TO	41	STR				2'-6"	
	3	9'-1"							
W525	8	9'-1"	76	STR					
W526	2	9'-8"	20	2	3'-2"	7'-11"	1'-2"		
W621	3	8'-6"	38	STR					
	1	5'-2"							
W622	S.O.	TO	49	STR				0'-8"	
	5	7'-10"							
W623	9	9'-0"	122	STR					
W624	6	7'-4"	66	STR					
W721	14	8'-9"	250	3	6'-3"	2'-8"			
				WINGWALL 3					
W531	3	8'-6"	27	STR					
	1	5'-3"							
W532	S.O.	TO	34	STR				0'-8"	
	5	7'-10"							
W533	16	2'-4"	39	2	0'-10"	0'-10"	1'-2"		
	2	4'-0"							
W534	S.O.	TO	41	STR				2'-6"	
	3	9'-1"							
W535	8	9'-1"	76	STR					
W536	2	9'-8"	20	2	3'-2"	7'-11"	1'-2"		
SUBTOTAL			1768						

S.O. - SERIES OF

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	INCR	REMARKS
W631	3	8'-6"	38	STR					
	1	5'-3"							
W632	S.O.	TO	49	STR				0'-8"	
	5	7'-10"							
W633	9	9'-0"	122	STR					
W634	6	7'-4"	66	STR					
W731	14	8'-9"	250	3	6'-3"	2'-8"			
				WINGWALL 4					
W541	3	9'-9"	31	STR					
	1	6'-3"							
W542	S.O.	TO	40	STR				0'-8"	
	5	9'-1"							
W543	18	2'-4"	44	2	0'-10"	0'-10"	1'-2"		
	2	4'-1"							
W544	S.O.	TO	41	STR				2'-6"	
	3	9'-1"							
W545	10	9'-1"	95	STR					
W546	2	9'-9"	20	2	3'-4"	7'-11"	1'-2"		
W641	3	9'-9"	44	STR					
	1	6'-3"							
W642	S.O.	TO	58	STR				0'-8"	
	5	9'-1"							
W643	9	9'-0"	122	STR					
W644	6	7'-4"	66	STR					
W741	14	8'-9"	250	3	6'-3"	2'-8"			
				CULVERT FOOTING					
F401	56	12'-0"	449	1	3'-2"	2'-7"			
F701	32	21'-11"	1434	STR					
	1	10'-3"			3'-3"	3'-3"			
F711	S.O.	TO	214	2	TO	TO	5'-8"	0'-4"	
	9	13'-0"			5'-2"	5'-2"			
	1	10'-3"			3'-3"	3'-3"			
F721	S.O.	TO	214	2	TO	TO	5'-8"	0'-4"	
	9	13'-0"			5'-2"	5'-2"			
	1	10'-3"			3'-3"	3'-3"			
F731	S.O.	TO	214	2	TO	TO	5'-8"	0'-4"	
	9	13'-0"			5'-2"	5'-2"			
	1	10'-3"			3'-3"	3'-3"			
F741	S.O.	TO	214	2	TO	TO	5'-8"	0'-4"	
	9	13'-0"			5'-2"	5'-2"			
				HEADWALL					
H501	11	2'-7"	30	4	1'-1"	0'-8"	1'-1"		
H502	2	15'-10"	33	STR					
H511	11	5'-1"	58	4	2'-4"	0'-8"	2'-4"		
H512	2	15'-10"	33	STR					
SUBTOTAL			4229						

TOTAL CARRIED TO SHEET 2 OF 8

REINFORCING SCHEDULE
STA. 133+13.00

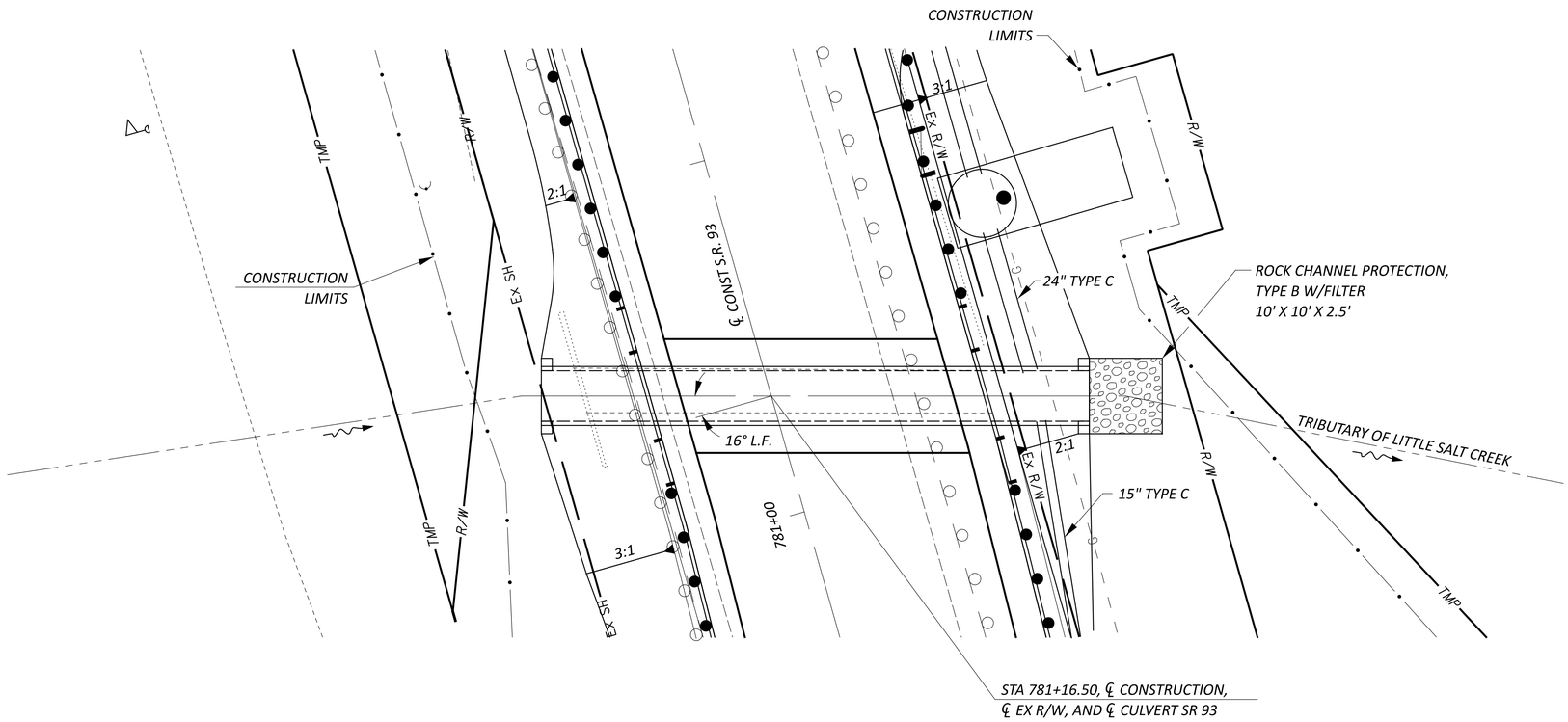
DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

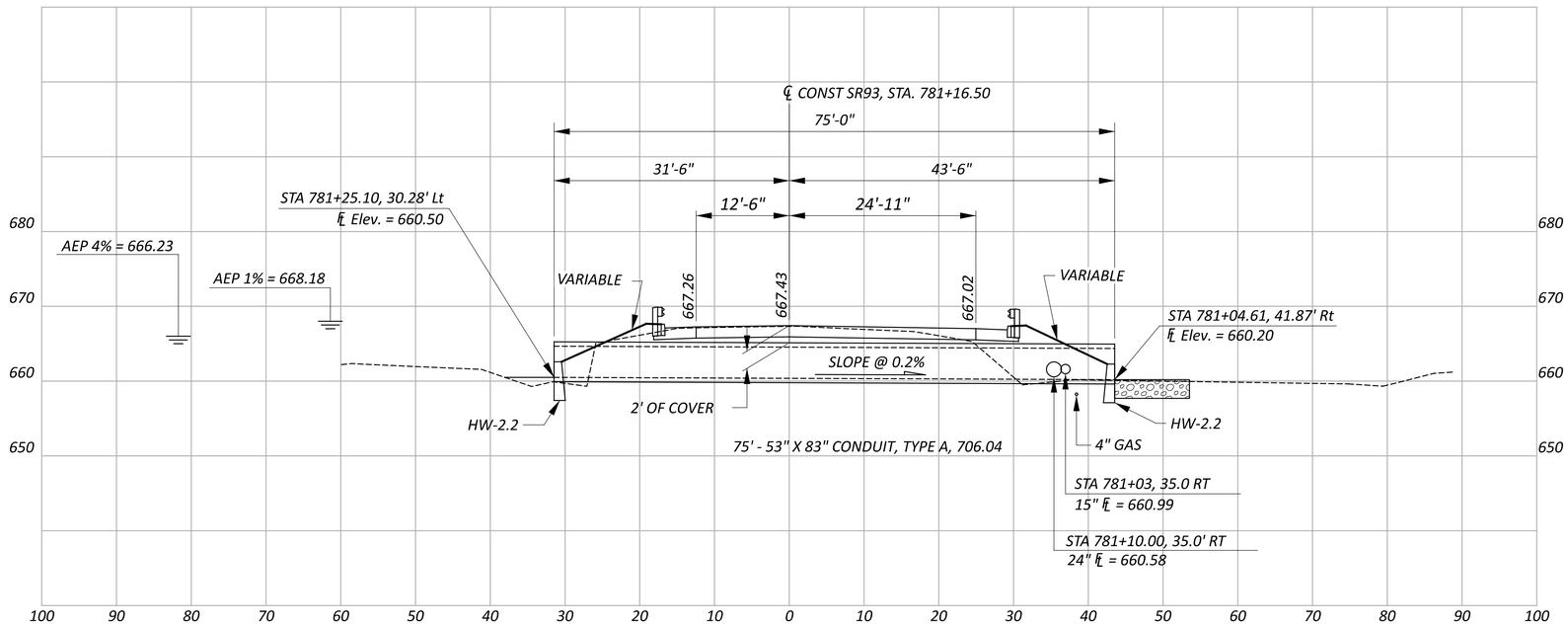
DESIGNER KEW
REVIEWER JOH 01/17/25
PROJECT ID 131206
SUBSET 8 TOTAL 8
SHEET P.107 TOTAL 125

GUE-660-2.52

MODEL: SP1312-6h PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1312-6a-6h.dgn

SP 1312-7
DATE: JANUARY 2025





ESTIMATED QUANTITES

ITEM	QUANTITY	UNIT	DESCRIPTION
601	9	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
602	3.3	CY	CONCRETE MASONRY
611	75	FT	53" X 83" CONDUIT, TYPE A, 706.04

QUANTITIES CARRIED TO GENERAL SUMMARY

HYDRAULIC DATA

DRAINAGE AREA = 344 ACRES

Q (4%) = 230 CFS V (4%) = 11 FT/S AEP (4%) = 666.24 FT

Q (1%) = 325 CFS V (1%) = 13 FT/S AEP (1%) = 668.81 FT

ORDINARY HIGH WATER MARK: 661.0 FT

DESIGN SERVICE LIFE: 75 YRS

pH: 6.8

ABRASION LEVEL: 4

CFN: 1234567

EXISTING STRUCTURE

TYPE: 48" AND 54" CORRUGATED METAL PIPES

SKEW: 16° L.F.

ALIGNMENT: TANGENT

CFN: 7654321

PROPOSED STRUCTURE

TYPE: 53" X 83" ELLIPTICAL CONCRETE PIPE

SKEW: 16° L.F.

ALIGNMENT: TANGENT

CFN: 1234567

HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAIL
STA 781+16.50

DESIGN AGENCY

DESIGNER MRV
REVIEWER MLC 01/17/25
PROJECT ID 131207
SHEET P.87 TOTAL 126

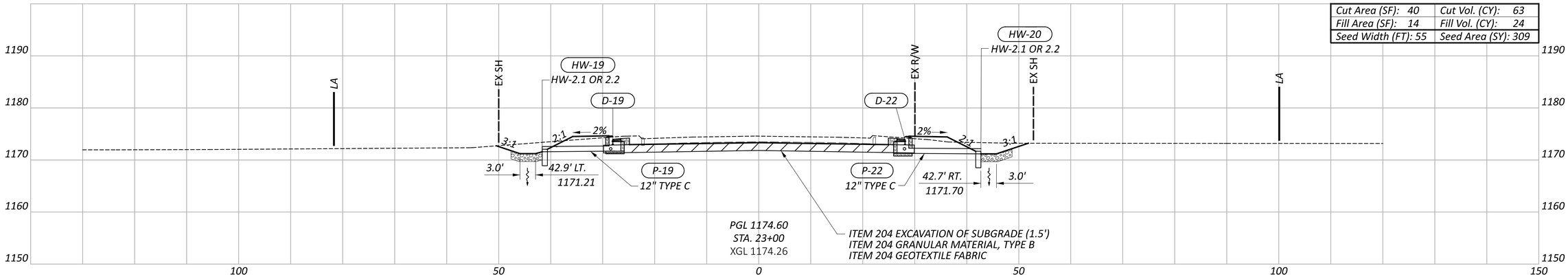
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MODEL: SP1312-7 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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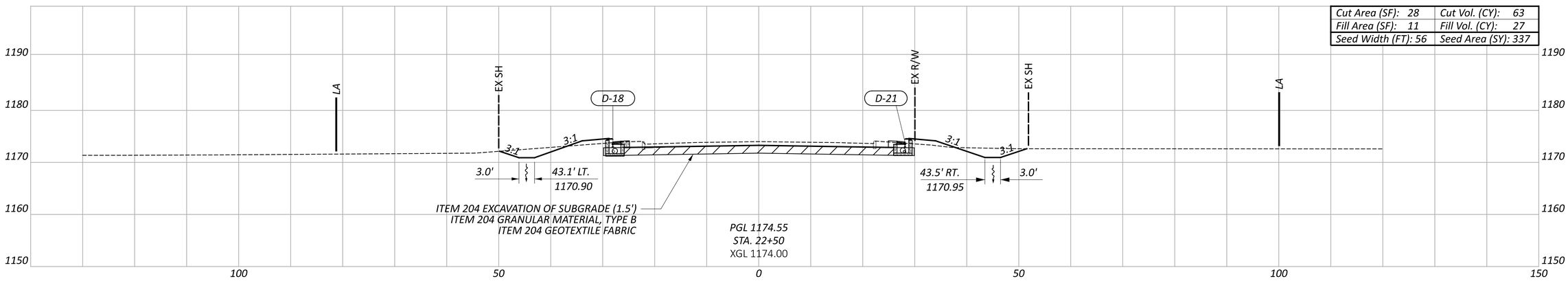
SP 1312-8
DATE: JANUARY 2025

CROSS SECTIONS - MINK STREET
STA. 22+00 TO STA. 23+00

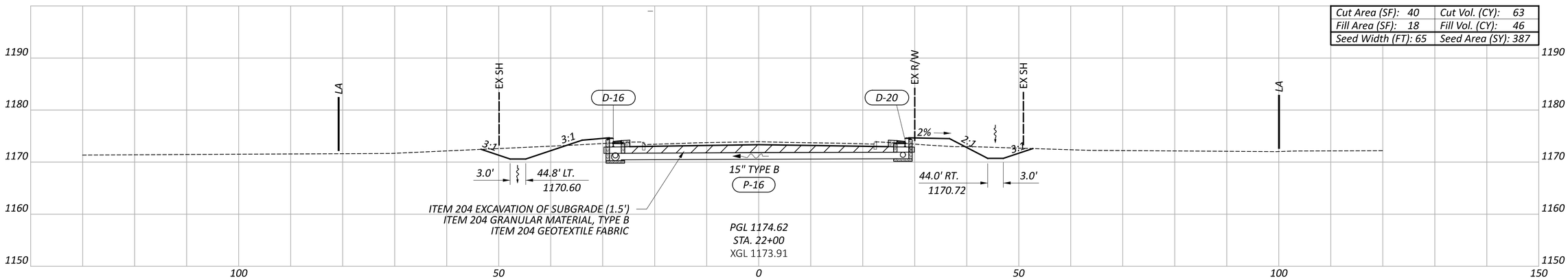
Cut Area (SF): 40	Cut Vol. (CY): 63
Fill Area (SF): 14	Fill Vol. (CY): 24
Seed Width (FT): 55	Seed Area (SY): 309



Cut Area (SF): 28	Cut Vol. (CY): 63
Fill Area (SF): 11	Fill Vol. (CY): 27
Seed Width (FT): 56	Seed Area (SY): 337



Cut Area (SF): 40	Cut Vol. (CY): 63
Fill Area (SF): 18	Fill Vol. (CY): 46
Seed Width (FT): 65	Seed Area (SY): 387



Sheet Totals		
Seeding	Cut	Fill
1033	189	97

DESIGN AGENCY

DESIGNER
RJG

REVIEWER
HAG 01/17/25

PROJECT ID
131208

SHEET P.146 TOTAL 336

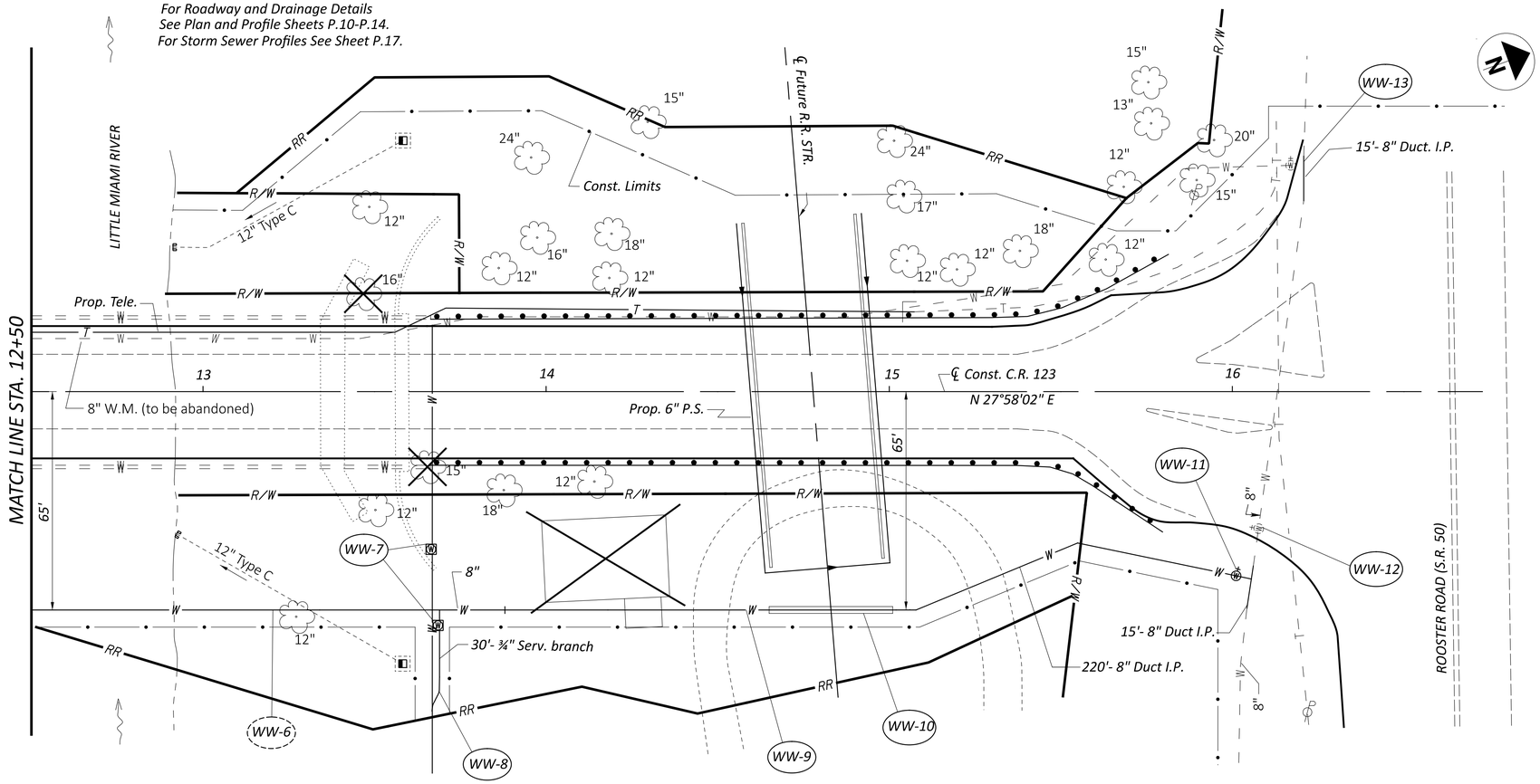
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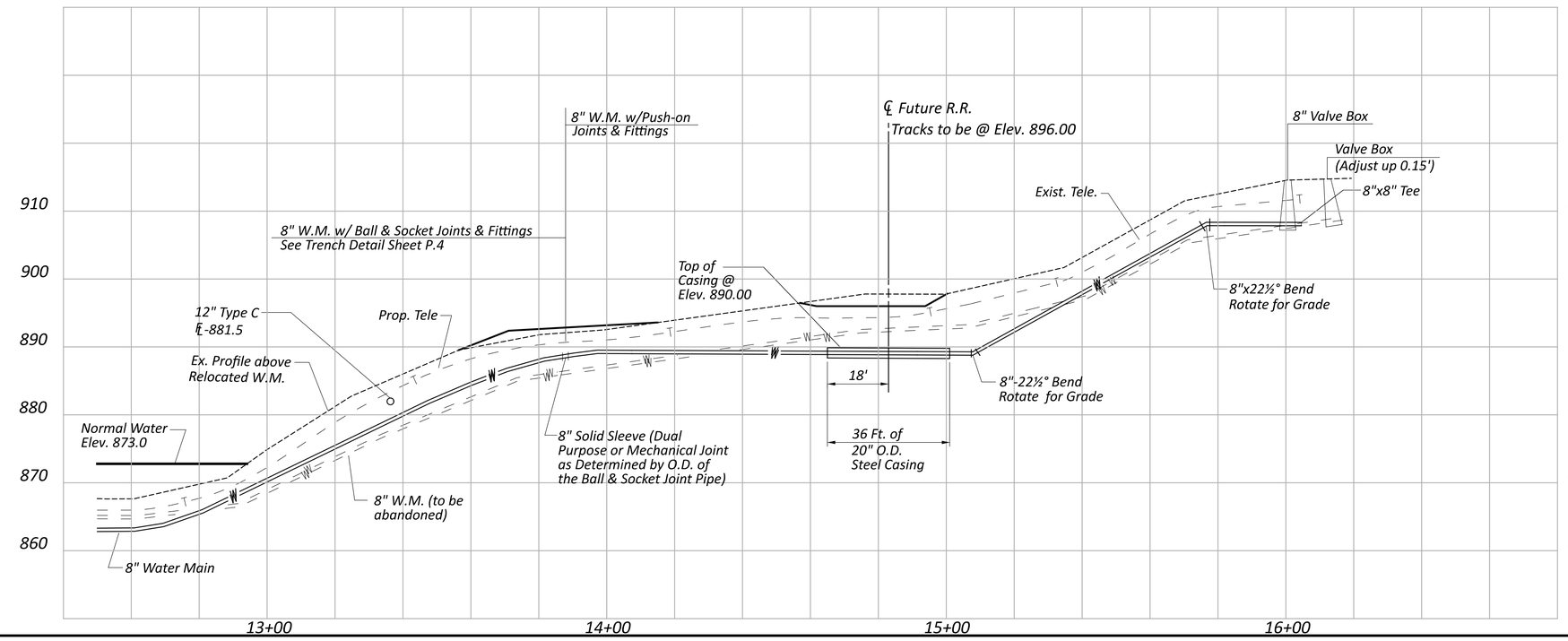
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HORIZONTAL SCALE IN FEET
0 10 20 40

WATER WORK PLAN
STA. 12+50 TO STA. 16+00

For Roadway and Drainage Details
See Plan and Profile Sheets P.10-P.14.
For Storm Sewer Profiles See Sheet P.17.





REF NO.	STATION FROM	STATION TO	SIDE	8" Gate Valve and Valve Box (EACH)	Sheeting and Bracing Ordered Left in Place (MBF)	Meter and Chamber Removed and Reset (EACH)	¾" Copper Service Branch (FT)	Valve Box Adjusted to Grade (EACH)	20" Steel Pipe Encasement, Open Cut (FT)	8" Water Main Ductile Iron Pipe ANSI Class 53, Push-on Joints and Fittings (FT)
WW-7	13+66	13+70	RT			1				
WW-8	13+67	13+70	RT				30			
WW-9	13+88	16+07	RT		1			1	36	235
WW-10	14+65	15+01	RT							
WW-11	16+00		RT			1				
WW-12	16+08		RT	1	1		30	1		15
WW-13	16+20		LT	1						
TOTALS CARRIED TO GENERAL SUMMARY				1	1	1	30	1	36	250

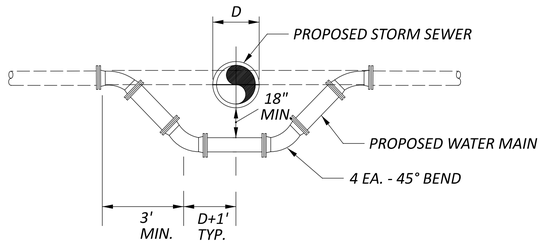
638

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER GJB
REVIEWER DJK 01/17/25
PROJECT ID 131301
SHEET P.12 TOTAL 127

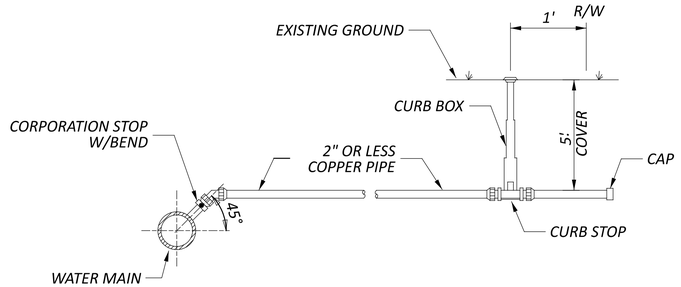
CUY-CR123-6.55

MODEL: SP1313-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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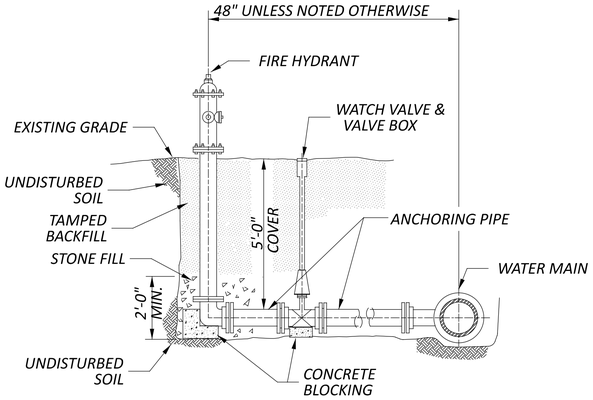
DETAIL "A"

EXISTING WATER MAIN RELOCATION UNDER PROPOSED UTILITY LINE (ELEVATION)



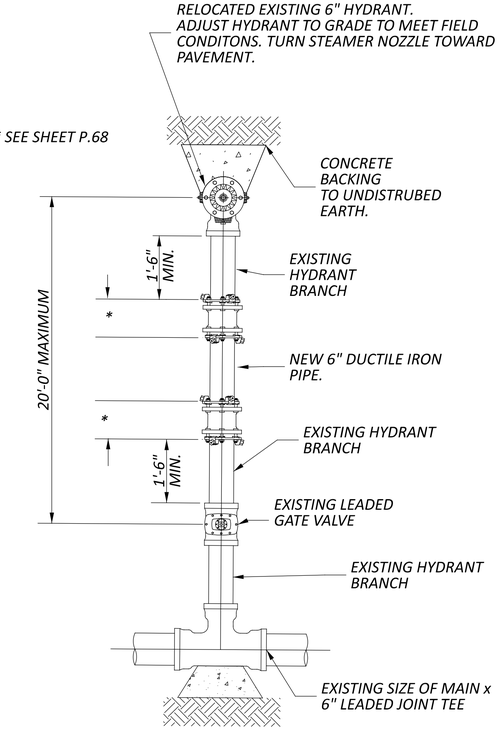
DETAIL "B"

TYPICAL 2" OR LESS SERVICE CONNECTION (ELEVATION)



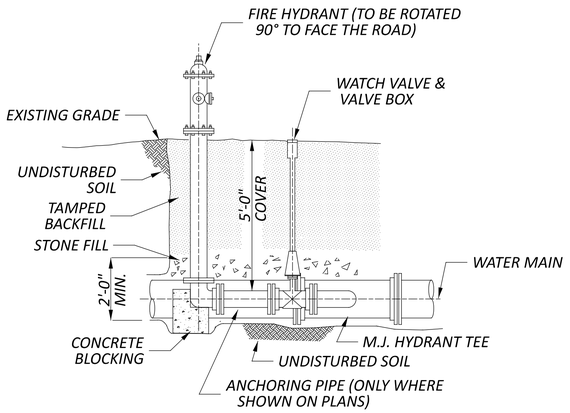
DETAIL "C"

HYDRANT ASSEMBLY PERPENDICULAR TO WATER (ELEVATION)



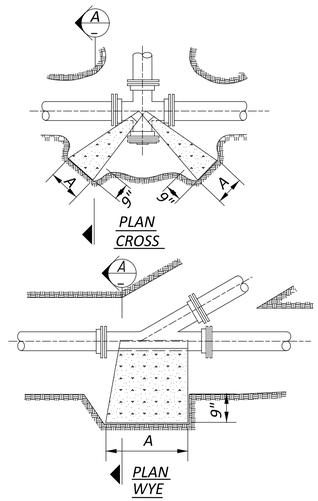
DETAIL "E"

FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE (PLAN)



DETAIL "D"

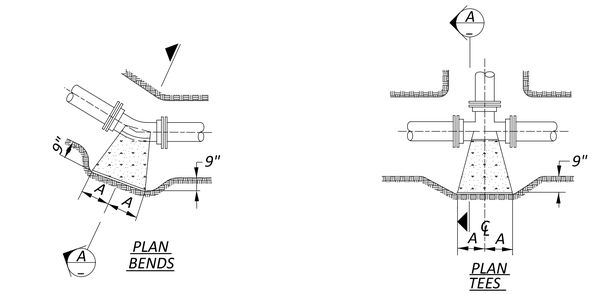
HYDRANT ASSEMBLY PARALLEL TO WATER MAIN (ELEVATION)



TYPE	SIZE	CROSS A	CROSS B	WYE A	WYE B
2000 P.S.F. SOIL	6"*	11"	13"	10"	12"
	8"	15"	17"	14"	14"
	10"	18"	22"	15"	20"
	12"	21"	26"	18"	23"
	14"	24"	30"	21"	27"
	16"	28"	33"	24"	30"
	20"	33"	42"	27"	43"
	24"	40"	49"	32"	50"

* 6" OR LESS

NOTE: BASED ON 150 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.



TYPE	SIZE	90° BENDS A	90° BENDS B	45° BENDS A	45° BENDS B	22-1/2° & 11-1/4° BENDS A	22-1/2° & 11-1/4° BENDS B	TEES A	TEES B	PLUGS C	PLUGS D
2000 P.S.F. SOIL	6"	18"	11"	10"	11"	6"	9"	11"	13"	10"	24"
	8"	25"	14"	14"	14"	9"	11"	15"	17"	12"	32"
	10"	27"	20"	16"	19"	10"	15"	18"	22"	14"	40"
	12"	33"	23"	18"	23"	12"	18"	21"	26"	16"	47"
	14"	39"	26"	22"	26"	13"	22"	24"	30"	18"	54"
	16"	43"	30"	24"	30"	14"	26"	28"	33"	20"	61"
	20"	50"	39"	27"	39"	17"	32"	33"	42"	24"	74"
	24"	60"	45"	33"	45"	20"	38"	40"	49"	28"	88"

*6" OR LESS

NOTE:
BASED ON 150 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

WATER WORK DETAILS

TUS-10-13.15
MODEL: SP1313-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\tohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1313-2.dgn

DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000
DESIGNER
POV
REVIEWER
MRT 01/17/25
PROJECT ID
131302

SP 1314-1
DATE: JANUARY 2025

PAVEMENT MARKING SUBSUMMARY

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	621 RAISED PAVEMENT MARKER REMOVED EACH		621 RPM (2-way yellow) EACH	621 RPM (1-way white) EACH			642 EDGE LINE, 6", TYPE 1 (White) MILE	642 CENTER LINE, TYPE 1 (Dashed-Solid) MILE	642 CHANNELIZING LINE, 8", TYPE 1 FT	642 STOP LINE, TYPE 1 FT	642 LANE ARROW, TYPE 1 EACH	642 WORD ON PAVEMENT, 96", TYPE 1 EACH	642 ISLAND MARKING, TYPE 1 (Yellow) SQ FT				
P.56	CL-1	℄ Const. S.R. 17	46+73	48+00	RT.	7		7					0.024									
P.56	CL-2	℄ Const. S.R. 17	47+90	48+47	LT.			2					0.010									
P.56	CL-3	℄ Const. S.R. 17	48+00	48+47	RT.	2		11					0.009									
P.56	CL-4	℄ Const. S.R. 17	48+47	53+00	LT.			11					0.086									
P.56	CL-5	℄ Const. S.R. 17	48+47	53+00	RT.	11		6					0.086									
P.57	CL-6	℄ Const. S.R. 17	53+00	55+48	LT.	6		6					0.047									
P.57	CL-7	℄ Const. S.R. 17	53+00	55+48	RT.			12					0.047									
P.57	CL-8	℄ Const. S.R. 17	55+48	57+86	LT.	12							0.045									
P.57	CL-9	℄ Const. S.R. 17	55+48	56+00	RT.			3					0.011									
P.57	CL-10	℄ Const. S.R. 17	58+68	59+25	RT.	3		4					0.011									
P.57	CL-11	℄ Const. MEYERS RD.	10+40	11+15	℄	4		5					0.014									
P.57	CL-12	℄ Const. MEYERS RD.	8+55	9+41	℄	5		6					0.016									
P.58	CL-13	℄ Const. S.R. 17	59+25	60+39	RT.	6		1					0.022									
P.58	CL-14	℄ Const. S.R. 17	64+16	65+00	℄	1		1					0.016									
P.58	CL-15	℄ Const. S.R. 17	65+00	65+66	℄	2							0.013									
P.56	EL-1	℄ Const. RAMP A	10+25	10+65	RT.	2						0.009										
P.56	EL-2	℄ Const. S.R. 17	45+52	48+00	LT.	12			2			0.047										
P.56	EL-3	℄ Const. S.R. 17	45+30	48+00	RT.	14			12			0.051										
P.56	EL-4	℄ Const. RAMP B	9+18	9+75	RT.	3			14			0.011										
P.56	EL-5	℄ Const. S.R. 17	48+00	53+00	LT.	14			3			0.095										
P.56	EL-6	℄ Const. S.R. 17	48+00	53+00	RT.	14			14			0.095										
P.57	EL-7	℄ Const. MEYERS RD.	53+00	11+00	LT.	24			14			0.113										
P.57	EL-8	℄ Const. MEYERS RD.	53+00	8+55	RT.	23			24			0.111										
P.57	EL-9	℄ Const. MEYERS RD.	11+15	59+25	LT.	8			23			0.029										
P.57	EL-10	℄ Const. MEYERS RD.	8+55	59+25	RT.	11			8			0.041										
P.58	EL-11	℄ Const. S.R. 17	59+25	65+00	LT.	21			11			0.109										
P.58	EL-12	℄ Const. S.R. 17	59+25	65+00	RT.	16			22			0.109										
P.58	EL-13	℄ Const. S.R. 17	65+00	65+66	LT.	1			29			0.013										
P.58	EL-14	℄ Const. S.R. 17	65+00	65+66	RT.	1						0.013										
P.56	CH-1	℄ Const. S.R. 17	45+52	47+70	LT.									218								
P.57	CH-2	℄ Const. S.R. 17	56+20	57+86	RT.				11					166								
P.57	CH-3	℄ Const. S.R. 17	58+68	59+25	LT.				9					57								
P.58	CH-4	℄ Const. S.R. 17	59+25	60+20	LT.				3					95								
P.56	IM-1	℄ Const. S.R. 17	44+51	45+09	RT.				5				0.019	110								
P.56	IM-2	℄ Const. S.R. 17	45+52	46+73	RT.	6		6					0.046	10								
P.58	IM-3	℄ Const. S.R. 17	60+39	64+16	LT&RT	11		12					0.143									
P.56	SL-1	℄ Const. RAMP A	10+28		LT&RT			19								29						
P.56	SL-2	℄ Const. S.R. 17	50+07	50+27	LT.											20			108			
P.57	SL-3	℄ Const. MEYERS RD.	9+41		LT.											12			26			
P.57	SL-4	℄ Const. MEYERS RD.	10+40		RT.											14			255			
P.56		℄ Const. S.R. 17	45+62														2					
P.56		℄ Const. S.R. 17	46+62															2				
P.56		℄ Const. S.R. 17	47+60														2					
P.56		℄ Const. S.R. 17	52+11														1					
P.56		℄ Const. S.R. 17	52+25														1					
P.57		℄ Const. S.R. 17	56+98															1				
P.57		℄ Const. S.R. 17	56+20														1					
P.57		℄ Const. S.R. 17	57+76														1					
P.57		℄ Const. S.R. 17	58+78														1					
SUBTOTALS						240		112	204			0.846	0.665	656	75	9	3	389				
TOTALS CARRIED TO GENERAL SUMMARY						240		316				0.85	0.67	656	75	9	3	389				

DESIGN AGENCY

DESIGNER DAM

REVIEWER JAG 01/17/25

PROJECT ID 131401

SHEET P.54 TOTAL 65

UNI-17-3.14

MODEL: SP1314-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\Sample Plans\02-Working\SP1314-1.dgn

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET (SQ FT)	630 ONE WAY SUPPORT, No. 3 POST (FT)	630 GROUND MOUNTED SUPPORT, No. 3 POST (FT)	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10x12 (FT)	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION (EACH)	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL (EACH)	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL (EACH)	630 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL (EACH)	630 SIGN ERECTED, EXTRUSHEET (SQ FT)	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION (EACH)	630 BREAKAWAY STRUCTURAL BEAM CONNECTION (EACH)			
P.56	S1	℄ Const. S.R. 17	44+91	LT.	M3-1-24	24" x 12"	2.0													
					M1-1-24-2	24" x 24"	4.0													
					M6-1-24	24" x 18"	3.0													
					M2-H7-66	66" x 24"	11.0													
P.56	S2		40+41	LT.	R1-1-48	48" x 48"	16.0	14.5	13.5											
					R6-1-48	48" x 18"	6.0													
					R5-1-36	36" x 36"	9.0													
					R6-1-48	48" x 18"	6.0													
P.56	S3		45+60	LT.	R3-H8ba-36	36" x 30"	7.5		12.5											
P.56	S4		47+80	LT.	D1-H6	192" x 72"				17.5-18.0					96	2	2			
P.56	S5		48+40	RT.	R3-9b-24	24" x 36"	6.0		14											
					R3-H9j-24	24" x 6"	1.0													
P.56	S6		48+75	LT.	R3-H8dg-36	36" x 30"	7.5		12.5											
P.56	S7		49+93	LT.	D-3				10											
P.56	S8		50+05	LT.	R2-1-30	30" x 30"	6.25		12.5											
P.56	S9		46+20	RT.	M3-2-24	12" x 24"	2.0		14-14											
					M1-5-24-3	24" x 30"	5.0													
P.56	S10		54+36	RT.	R3-H8dg-36	36" x 30"			7.5											
P.57	S11		53+00	LT.	M2-1	24" x 12"	2.0		13											
					M1-1-24-2	24" x 24"	4.0													
P.57	S12		55+56	LT.	R3-H9j-24	24" x 6"	1.0													
					R3-9b-24	24" x 36"	6.0		14											
P.57	S13		55+56	RT.	R3-H8bh-36	36" x 30"	7.5		12.5											
P.57	S14		57+25	RT.	R3-H8bh-36	36" x 30"	7.5		12.5											
P.57	S15		56+89	LT.	M1-5-30-3	30" x 24"	5.0		11											
P.57	S16		57+72	RT.	D-3				10											
P.57	S17		58+31	LT.	R2-1-30	30" x 30"	6.25		13.5-13.5											
					R5-H2b-24															
P.57	S18		58+48	LT.	R2-1-30	30" x 30"	6.25		11											
P.57	S19		58+65	RT.	R2-1-30	30" x 30"	6.25		13.5-13.5											
					R5-H2b-24															
P.57	S20		59+47	RT.	R2-1-30	30" x 30"	6.25		13.5-13.5											
					R5-H2b-24															
P.58	S21		59+25	LT.	R3-H8bh-36	36" x 30"	7.5		12.5											
P.58	S22		59+38	RT.	M1-5-24-3	30" x 24"	5.0		11											
P.58	S23	℄ Const. S.R. 17	60+86	LT.	R3-H8bh-36	36" x 30"	7.5		12.5											
P.56	R1	℄ Const. S.R. 17	44+91	LT.								4	1							
P.56	R2		40+41	LT.								3	1							
P.56	R3		47+80	LT.							3			1						
P.56	R4		47+65	RT.	W6-3							1	1							
P.56	R5		49+93	LT.								1	1							
P.56	R6		50+05	LT.								1	1							
P.56	R7		46+20	RT.								2	1							
P.56	R8	℄ Const. S.R. 17	54+36	RT.								1	1							
SUBTOTALS							170.25	14.5	311.5	35.5	3	13	7	1	96	2	2			
TOTALS CARRIED TO GENERAL SUMMARY							170	15	312	36	3	13	7	1	96	2	2			

SIGNING SUBSUMMARY

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER
DAM

REVIEWER
JAG 01/17/25

PROJECT ID
131402

SHEET P.55 TOTAL 65

UNI-17-3.14

MODEL: SP1314-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1314-3
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

SIGN AND PAVEMENT MARKING PLAN

LEGEND

Proposed Sign

Existing Sign to Remain (Relocations Noted in Plans)

Existing Sign to be Removed

SEE SHEET P.57 FOR ISLAND MARKING DETAIL

MATCH LINE STA. 48+00

MATCH LINE STA. 53+00

℄ CONSTRUCTION S.R. 17

℄ Commerce Drive

℄ RAMP "A"

℄ RAMP "B"

DICK'S CREEK

Raised Pavement Markers (Typ.)

S-1 NORTH INTERSTATE 74 SOUTH NORTH

R-1 M3-1-37 M1-1-24-2 M6-1L-24 M2-H7-66

R1-1-48 STOP DO NOT ENTER R5-1-36

R1-1-48 R6-1R-48 ONE WAY R6-1L-48 S-2

R5-1-36 Sta. 45+53 R-2

S-3 ONLY ONLY R3-H8BA-36

D1-H6A-192" x 72" Bombay 33 Madrid 21 Sta. 47+80 S-4 R-3

EL-1 SL-1 IM-1 16.75' 44 45 +51 +09 +28 11+00

EL-2 CH-1 GR-1 +62 +52 14' 12' 5' 13 46 47 +60 +92 +30 ONLY ONLY

IM-2 EL-4 CL-1 EL-3 CL-4

M1-H5E-16 30" x 24" M3-2-24 17 EAST 24" x 12" Sta. 46+20 R-7 S-9 R-4

KEEP RIGHT R4-7B-18

NORTH MADRID INTERSTATE 74

00+6

STOP R1-1-30 Sta. 50+05 S-8 R-6

S-6 ONLY ONLY R3-H8BA-36 Sta. 48+75

S-7 COMMERCE DRIVE Sta. 49+93 R-5 COMMERCE DRIVE

SL-2 CL-2 EL-5 CL-3 EL-6 CL-5

12' 12' 12' +40 49 50 51 52 +11 +25

R3-9B-36 STA. 48+40 ONLY CENTER LANE BEGIN R3-H9J-30 S-5

NORTH INTERSTATE 74 SOUTH NORTH M3-1-24 M1-1-24-2 M5-1L-21 M2-H7-66

MILE 1 Sta. 52+80 MILE MARKER 1 D10-1-10 R-8 S-10

UNI-17-3.14

MODEL: SP1314-3 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

DESIGNER DAM
REVIEWER JAG 01/17/25
PROJECT ID 131403
SHEET P.56 TOTAL 65

SP 1314-4
DATE: JANUARY 2025



322+00 W.B.



295+50 W.B.

GUIDE SIGN ELEVATION DETAILS

DESIGN AGENCY

DESIGNER LME
REVIEWER HS 01/17/25
PROJECT ID 131404
SHEET P.1686 TOTAL 2117

FRA-161-23.20 / LIC-161-0.00

MODEL: SP1314-4 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1314-5
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC SIGNAL PLAN
S.R. 263 AND S.R. 381

MATCH LINE STA. 237+75 SEE SHEET P.104

MATCH LINE STA. 164+70 SEE SHEET 102

MATCH LINE STA. 170+50 SEE SHEET 102

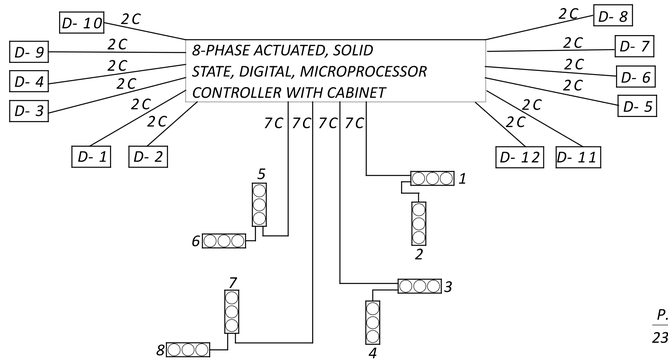
MATCH LINE STA. 233+75 SEE SHEET 104

LEGEND

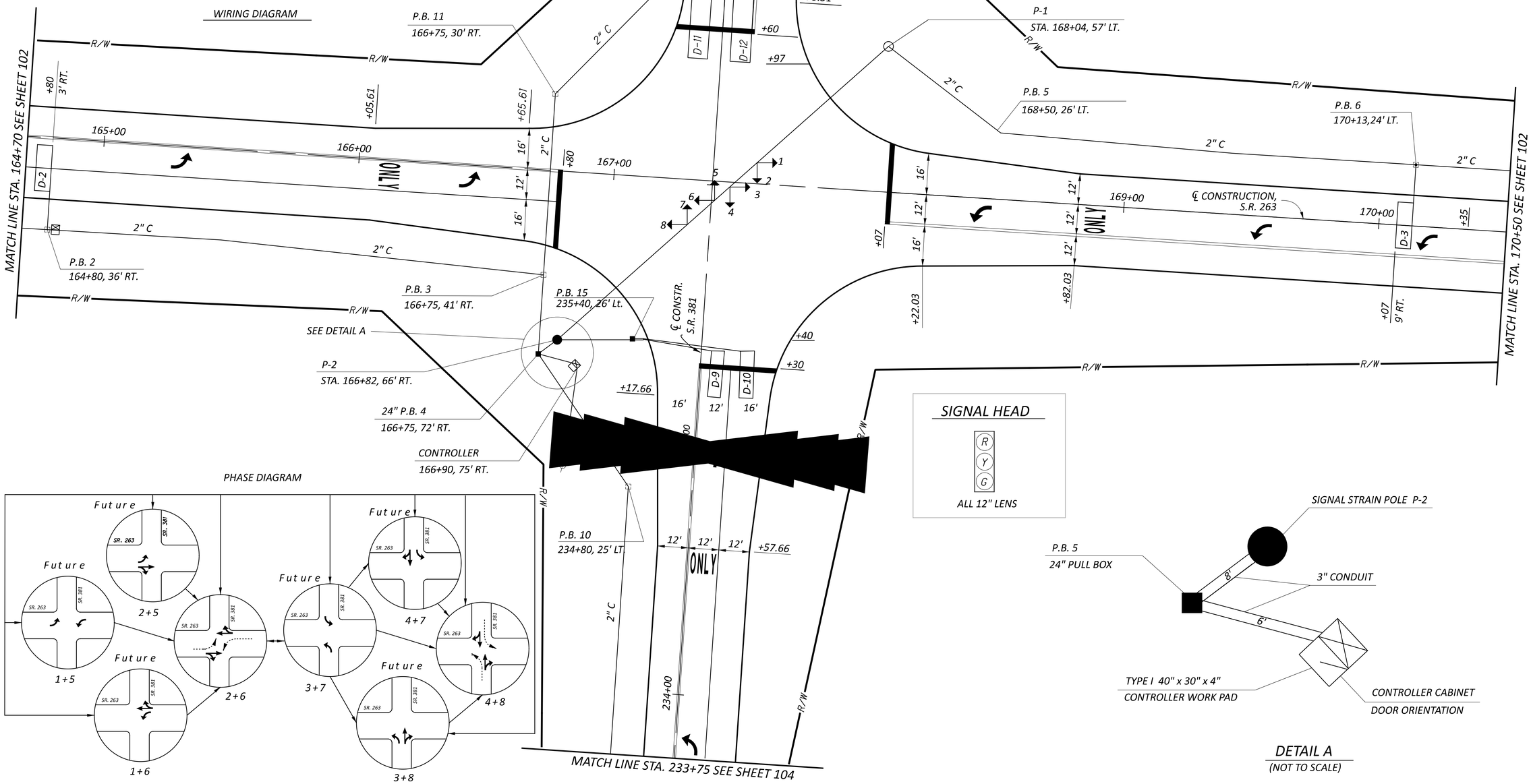
- SPAN WIRE SUPPORT
- SIGNAL HEAD, STD 1-WAY
- CONDUIT ..... ×"C
- 18" PULLBOX
- CONTROLLER CABINET
- LOOP DETECTORS

N

NOTE: FOR APPROACH MONITORING HOOK UP DIAGRAM REFER TO SHEET NO. 105



WIRING DIAGRAM



PHASE DIAGRAM

SIGNAL HEAD

ALL 12" LENS

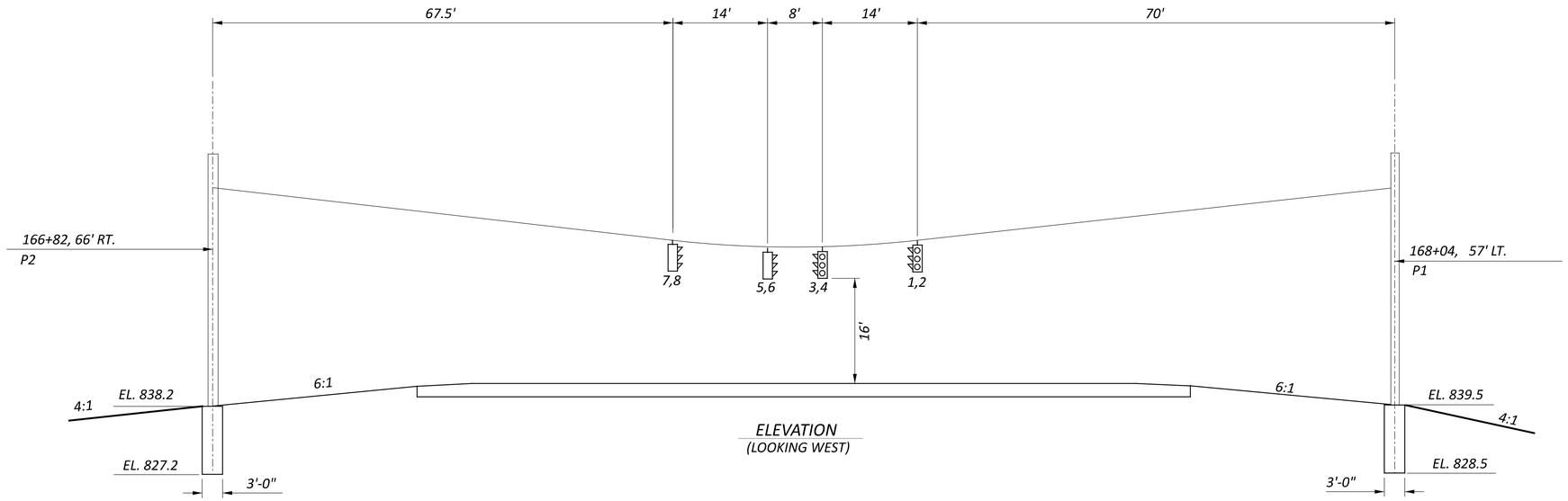
DETAIL A
(NOT TO SCALE)

DESIGN AGENCY

DESIGNER MTG
REVIEWER DSN 01/17/25
PROJECT ID 131405
SHEET P.103 TOTAL 121

GRE-263-12.92

MODEL: SP1314-5 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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ELEVATION
(LOOKING WEST)

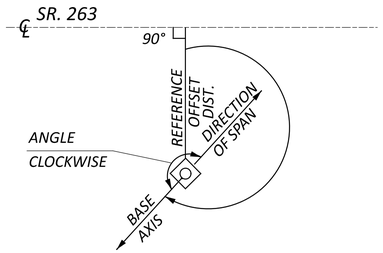
POLE SIZE AND FOUNDATION ELEVATION					ORIENTATION OF ACCESSORIES (Angles Measured from Index Line)				
POLE NUMBER	POLE DESIGN	POLE SIZE	ELEVATION TOP OF FOUNDATION	ELEVATION BOTTOM OF FOUNDATION	SERVICE CABLE 1-1/2"	HAND HOLE	CABLE ENTRANCE	SPAN WIRE ATTACHMENT	LUMINAIRE
P-1	10	34'	839.5	828.5	----	0	180°	180°	----
P-2	10	34'	838.2	827.2	25'	0	180°	180°	----

SIGNAL HEAD MOUNTING DATA			
SIGNAL	PAVEMENT ELEVATION BELOW SIGNAL	ACTUAL CLEARANCE FROM PAVE.	ELEVATION BOTTOM OF SIGNAL
1,2	842.2	16.7	858.9
3,4	841.9	16.1	857.9
5,6	841.9	16.4	858.3
7,8	841.9	17.1	858.9

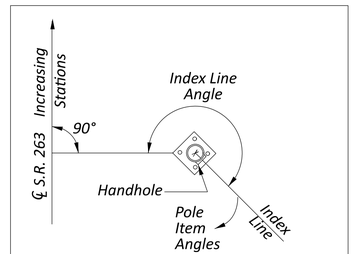
SIGNAL TIMING		
PHASE	1	2
MINIMUM	15	15
MAXIMUM	25	25
EXTENSION	3	3
ADDED INITIAL	1.0	
FLASH	Y	R
RECALL	MIN	----
Y-CLEAR	4	4
ALL-RED	2	2
INTIALIZE	G	R

SIGNAL DISPLAY SEQUENCE CHART								
SIGNAL HEADS	FLASH	PHASE 1 INTERVAL 1	2	3	PHASE 2 INTERVAL 4	5	6
1	Y	G	Y	R	R	R	R
2	R	R	R	R	G	Y	R
3	Y	G	Y	R	R	R	R
4	R	R	R	R	G	Y	R
5	R	R	R	R	G	Y	R
6	Y	G	Y	R	R	R	R
7	R	R	R	R	G	Y	R
8	Y	G	Y	R	R	R	R

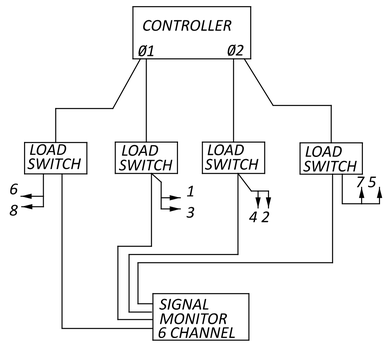
LOOP DETECTOR CHART							
LOOP	PHASE	SIZE	NO. OF TURNS	MODE	LOOP DET. UNIT	DELAY	DELAY INHIBIT PHASE
D-1	2	6 x 6	3	PULSE	1	-	-
D-2	2	6 x 18	2	PULSE	1	-	-
D-3	6	6 x 18	2	PULSE	2	-	-
D-4	6	6 x 6	3	PULSE	2	-	-
D-5	8	6 x 6	3	PULSE	3	3	8
D-6	8	6 x 18	2	PULSE	3	3	8
D-7	4	6 x 18	2	PULSE	4	3	4
D-8	4	6 x 6	3	PULSE	4	3	4
D-9	8	6 x 30	2	PRESENCE	5	3	8
D-10	8	6 x 30	2	PRESENCE	6	6	8
D-11	4	6 x 14	2	PRESENCE	7	6	4
D-12	4	6 x 14	2	PRESENCE	8	3	4



POLE ORIENTATION
FOR TABLE SEE THIS SHEET



NOTES:
1. All angles measures clockwise.
2. Index line goes through the center of the handhole.



APPROACH MONITORING HOOK-UP DIAGRAM

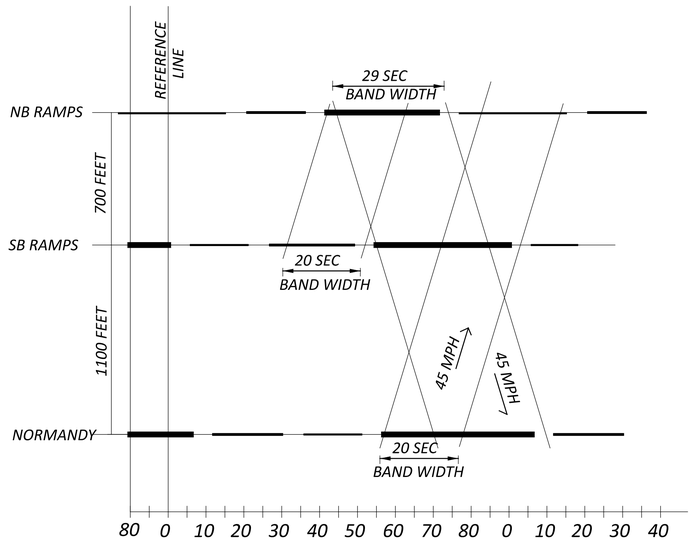
TRAFFIC SIGNAL PLAN DETAILS

DESIGN AGENCY

DESIGNER MTJ
REVIEWER DSN 01/17/25
PROJECT ID 131406
SHEET P.105 TOTAL 121

GRE-263-12.92

MODEL: SP1314-6 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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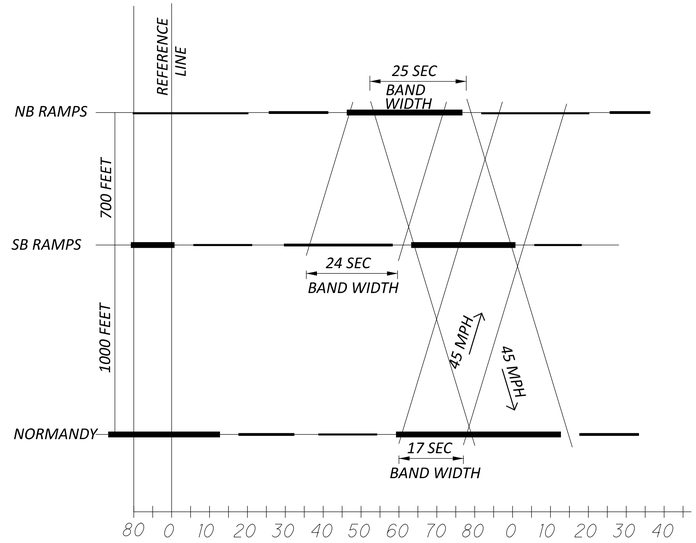


90 SECOND CYCLE LAGGING LEFT

PROTECTED ONLY LEFT TURN

MORNING & OFF PEAK

DIAL #1



90 SECOND CYCLE LAGGING LEFT

PROTECTED ONLY LEFT TURN

EVENING PEAK

DIAL #2

SR 18 GREEN
RAMP GREEN
PROTECTED LEFT TURN

TIME-SPACE DIAGRAMS

TRAFFIC SIGNAL PLAN DETAILS

DESIGN AGENCY

DESIGNER MTJ

REVIEWER DSN 01/17/25

PROJECT ID 131407

SHEET P.106 TOTAL 121

GRE-263-12.92

MODEL: SP1314-7 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1314-8

DATE: JANUARY 2025

SHEET NO.	LOCATION	SIDE	625							632										633						
			PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	TRENCH	CONDUIT, 2", 725.04	CONDUIT, 3", 725.04	GROUND ROD	PLASTIC CAUTION TAPE	VEHICULAR SIGNAL HEAD,3 SECTION, 12" LENS, 2-WAY	LOOP DETECTOR UNIT, AS PER PLAN	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	DETECTOR LOOP	STRAIN POLE FOUNDATION	STRAIN POLE, TYPE TC-81.10 DESIGN 10, 34'	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG.	LOOP DETECTOR LEAD-IN CABLE	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG.	MESSENGER WIRE, 7 STRAND, ¾" DIA. WITH ACCESSORIES	POWER SERVICE	CONTROLLER WORK PAD	CONTROLLER UNIT TYPE TS2/A1 WITH CABINET, TYPE TS2	CABINET FOUNDATION			
			EACH	EACH	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH			
P.102	162+80 (D-1)	RT.	1										1				110									
P.102	172+07 (D-4)	LT.	1										1				110									
P.103	164+80	RT.	1										1				136									
P.103	168+04 (P-1)	RT.						1						1	1											
P.103	166+75	RT&LT	2	1																						
P.103	166+82 (P-2)	LT.						1						1	1					1						
P.103	166+90 (CONTROLLER)	RT.						1			4										9	1	1			
P.103	168+50	LT.	1																							
P.103	170+13 (D-3)	LT.	1										1				136									
P.103	236+46										2															
P.103	234+80	LT.	1																							
P.103	236+75	LT.	1																							
P.104	231+36 (D-5)	LT.	1										1				158									
P.104	233+36 (D-6)	LT.	1										1				160									
P.104	235+31	LT.	1								2															
P.104	238+54 (D-7)	LT.	1										1				136									
P.104	240+54 (D-8)	LT.	1										1				110									
P.103	PB-1 TO CONTROLLER (D-1)																									
P.103	PB-2 TO CONTROLLER (D-2)																									
P.103	PB-6 TO CONTROLLER (D-3)																									
P.103	PB-7 TO CONTROLLER (D-4)																									
P.103	PB-8 TO CONTROLLER (D-5)																									
P.103	PB-9 TO CONTROLLER (D-6)																									
P.103	PB-12 TO CONTROLLER (D-11 & D-12)																									
P.103	PB-13 TO CONTROLLER (D-7)																									
P.103	PB-14 TO CONTROLLER (D-8)																									
P.103	PB-15 TO CONTROLLER (D-9 & D-10)																									
P.103	P-1 TO P-2	RT&LT																	174							
P.103	P-2 TO CONTROLLER	RT																63								
P.103	PB-1 TO PB-3	RT			395	395			395																	
P.103	PB-11 TO PB-4	RT&LT			102	102			102																	
P.103	PB-7 TO P-1	LT			412	412			412																	
P.103	PB-8 TO PB-4	LT			404	404			404																	
P.103	PB-11 TO PB-14	LT			439	439			439																	
P.103	P-2 TO PB-4	RT			8		8		8																	
P.103	PB-4 TO CONTROLLER	RT			8		8		8																	
	167+55 (S-1)(S-2)									1																
	167+46 (S-3)(S-4)									1																
	167+39 (S-5)(S-6)									1																
	167+30 (S-7)(S-8)									1																
	167+37											1														
	S-1 ➛ S-3 ➛ CONTROLLER															178										
	S-2 ➛ S-4 ➛ CONTROLLER															178										
	S-5 ➛ S-7 ➛ CONTROLLER															156										
	S-6 ➛ S-8 ➛ CONTROLLER															156										
	TOTALS		14	1	1768	1752	16	3	1768	4	8	2	8	2	2	668	1056	63	174	1	9	1	1			
	TOTALS CARRIED TO TRAFFIC CONTROL GENERAL SUMMARY		14	1	1768	1752	16	3	1768	4	8	2	8	2	2	668	1056	63	174	1	9	1	1			

TRAFFIC SIGNAL SUBSUMMARY

DESIGN AGENCY

DESIGNER MJG

REVIEWER DSN 01/17/25

PROJECT ID 131408

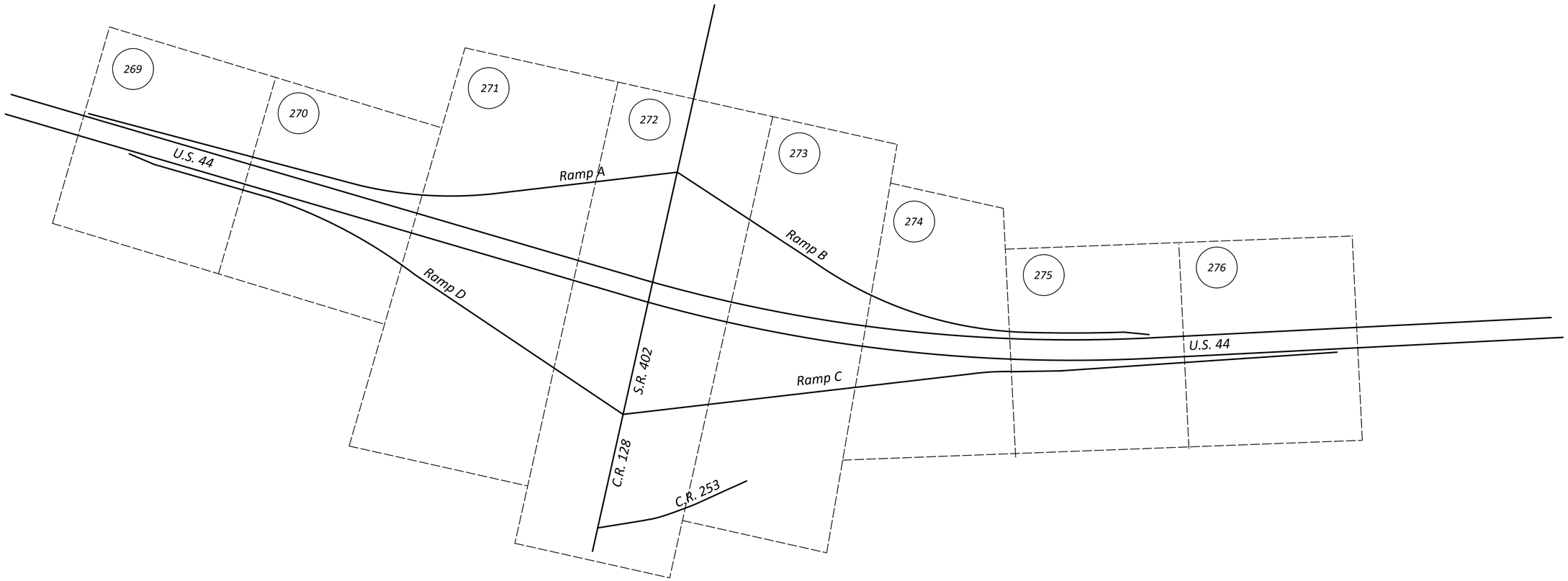
SHEET P.107 TOTAL 121

GRE-263-12.92

MODEL: SP1314-8 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1314-9
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 100 200 400



LIGHTING SCHEMATIC PLAN

LEGEND

- PROPOSED GUARDRAIL
- (1) SUB-SUMMARY REFERENCE NUMBER
- LIGHTING CIRCUIT
  CONDUIT OR DUCT CABLE (AS LABELED)
  WITH CONDUCTORS (AS INDICATED)
- CATCH BASIN, PIPE AND HEADWALL
- LIGHT POLE AND LUMINAIRE, INITIAL INSTALLATION
- CONTROL CENTER
- PULL BOX
- CIRCUIT STUB AND CAP

POLE LEGEND

STATION | OFFSET | CIRCUIT NUMBER — POLE NUMBER — POLE REF NO.

TYPE OF LUMINAIRE | WATTAGE OF LUMINAIRE | SUPPORT HEIGHT | BRACKET ARM LENGTH

DESIGN AGENCY
XYZ
Planning • Engineering • Surveying

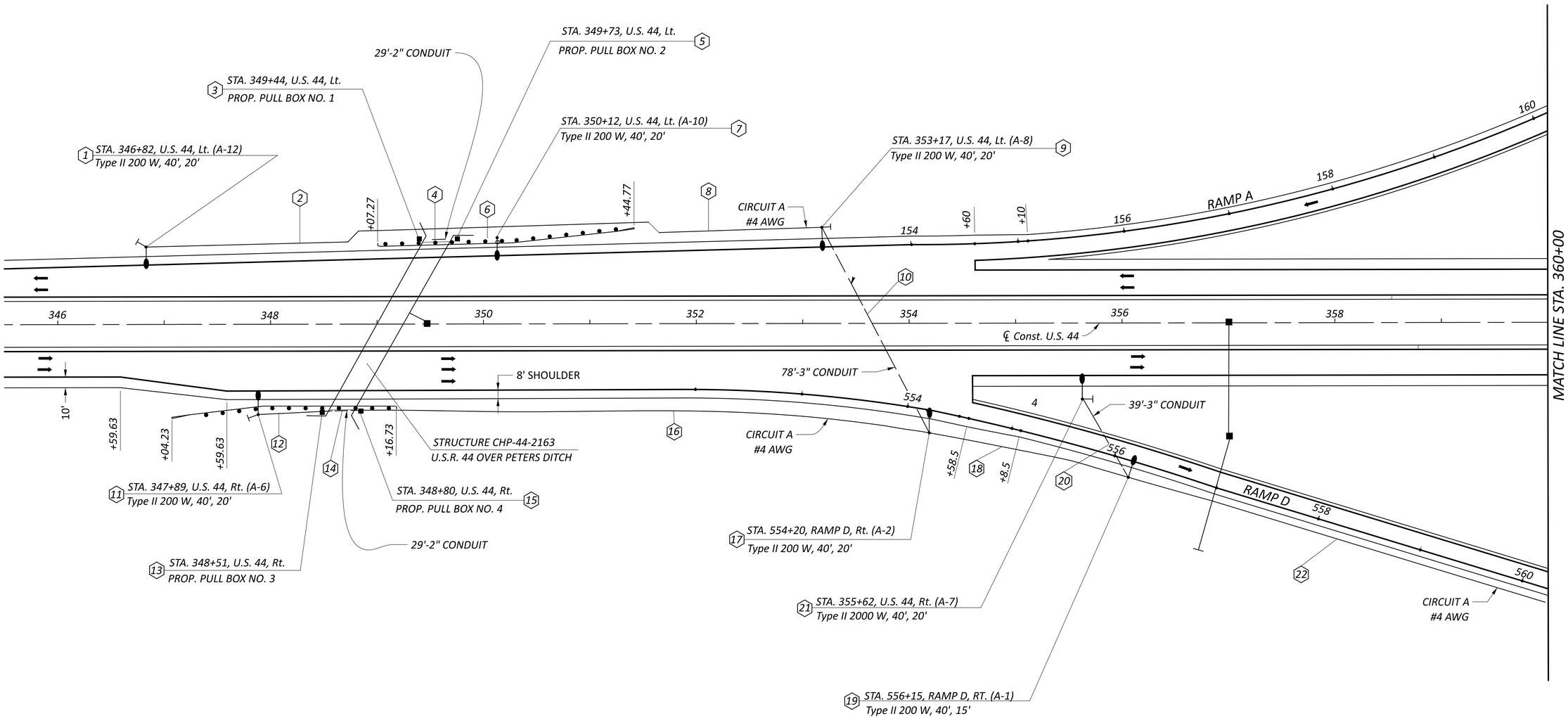
DESIGNER: DAY
REVIEWER: CMH 01/17/25
PROJECT ID: 131409
SHEET: P.264 TOTAL: 306

CHP-44-11.29

MODEL: SP1314-9 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1314-10
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 25 50 100



LIGHTING PLAN
STA. 345+50 TO STA. 360+00

FOR LEGEND, SEE SHEET P.264.

FOR QUANTITIES, SEE SHEET P.267.

DESIGN AGENCY

DESIGNER RNM
REVIEWER CWR 01/17/25
PROJECT ID 131410
SHEET P.269 TOTAL 306

CHP-44-11.29

MODEL: SP1314-10 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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SP 1314-11
DATE: JANUARY 2025

LIGHTING PLAN SUB-SUMMARY

625

REFERENCE NUMBER	SHEET No.	SIDE	ROADWAY	STATION TO STATION	Luminaire, Conventional, Style B, Type II, 200 W H.P.S., 480V	Luminaire, Conventional, Style B, Type III, 200 W H.P.S., 480V	Light Pole, Conventional, Design AT15B40	Light Pole, Conventional, Design AT20B40	Light Pole Foundation, 24" x 8' Deep	Pull Box, 725.08, 18"	Trench, 24" Deep	Conduit, 2", 725.04	Conduit, 3", 725.04	No. 4 AWG 2400 Volt Distribution Cable	No. 10 AWG Pole and Bracket Cable	1½" Duct Cable With Three No. 4 AWG 5000 Volt Cables	Connection, Fused Pull Apart	Connection, Unfused Pull Apart	Connection, Unfused Bolted	Connection, Unfused Permanent	Power Service, As Per Plan	Ground Rod	Structure Grounding System		
					EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
1	P.269	Lt	US-44	346+82		1		1	1						124		2								
2	P.269	Lt	US-44	346+82 to 349+44							262					272						1			
3	P.269	Lt	US-44	349+44						1										2					
4	P.269	Lt	US-44	349+44 to 349+73								29		117											
5	P.269	Lt	US-44	349+73						1										2					
6	P.269	Lt	US-44	349+73 to 350+12							39					49									
7	P.269	Lt	US-44	350+12		1		1	1						124		2								
8	P.269	Lt	US-44	350+12 to 353+17							305					315						1			
9	P.269	Lt	US-44	353+17		1		1	1						124		2								
10	P.269	L/R	44/D	353+17 to 554+20							212		146			222						1			
11	P.269	Rt	US-44	347+89		1		1	1						124		2								
12	P.269	Rt	US-44	347+89 to 348+51							62					72						1			
13	P.269	Rt	US-44	348+51						1										2					
14	P.269	Rt	US-44	348+51 to 348+80								29		117											
15	P.269	Rt	US-44	348+80						1										2					
16	P.269	Rt	44/D	348+80 to 554+20							540					550									
17	P.269	Rt	RAMP D	554+20		1		1	1						124		1	1	2						
18	P.269	Rt	RAMP D	554+20 to 556+15							195					205						1			
19	P.269	Rt	RAMP D	556+15	1		1		1						114		1	1	2						
20	P.269	Rt	44/D	355+62 to 556+15							85		39			95						1			
21	P.269	Rt	US-44	355+62		1		1	1						124		2								
22	P.269	Rt	RAMP D	556+15 to 560+30							415					425						1			
23	P.270	Rt	SR-402	54+90	1		1		1						114		2								
24	P.270	L/R	SR-402	53+88 to 54+90							188		97			198						1			
25	P.270	Lt	SR-402	53+88	1			1	1						124		2								
																						1			
26	P.270	Lt	SR-402	51+32 to 53+88							256					266									
27	P.270	Lt	SR-402	51+32						1										2					
28	P.270	Lt	SR-402	48+78 to 51+32							20	254		792									1		
29	P.270	Lt	SR-402	48+78						1										2					
30	P.270	Lt	128/402	45+10 to 48+78							368		80			378									
31	P.270	L/R	D/128	560+30 to 45+20							660					660									
32	P.270	Rt	SR-402	46+22	1		1		1						114		2								
33	P.270	L/R	128/402	45+10 to 46+22							170		115			180						1			
34	P.270	Rt	128/C	45+20 to 475+86							1030					1040									
35	P.270	Lt	CR-128	45+10	1		1		1						114		1	1	2						
																						1			
36	P.270	Lt	CR-128	44+10 to 45+10							100					110									
37	P.270	Lt	CR-128	44+10																	1				
38	P.270	Lt	CR-128	44+10 to 45+20							110					110									
39	P.270	L/R	CR-128	44+10 to 45+20							159		49			169									
40	P.270	Lt	RAMP B	275+49	1		1		1						114		2								
																						1			
41	P.270	Lt	USR-44	357+98		1		1	1						124		2								
42	P.270	Lt	RAMP B	275+49 to 276+01							52					62						1			
43	P.270	L/R	B/44	275+49 to 357+98							83		83			93									
SUBTOTALS CARRIED TO GENERAL SUMMARY					6	7	5	8	13	6	5311	312	609	1026	1562	5471	23	3	6	12	1	13	1		

DESIGN AGENCY

DESIGNER RNM

REVIEWER CWR 01/17/25

PROJECT ID 131411

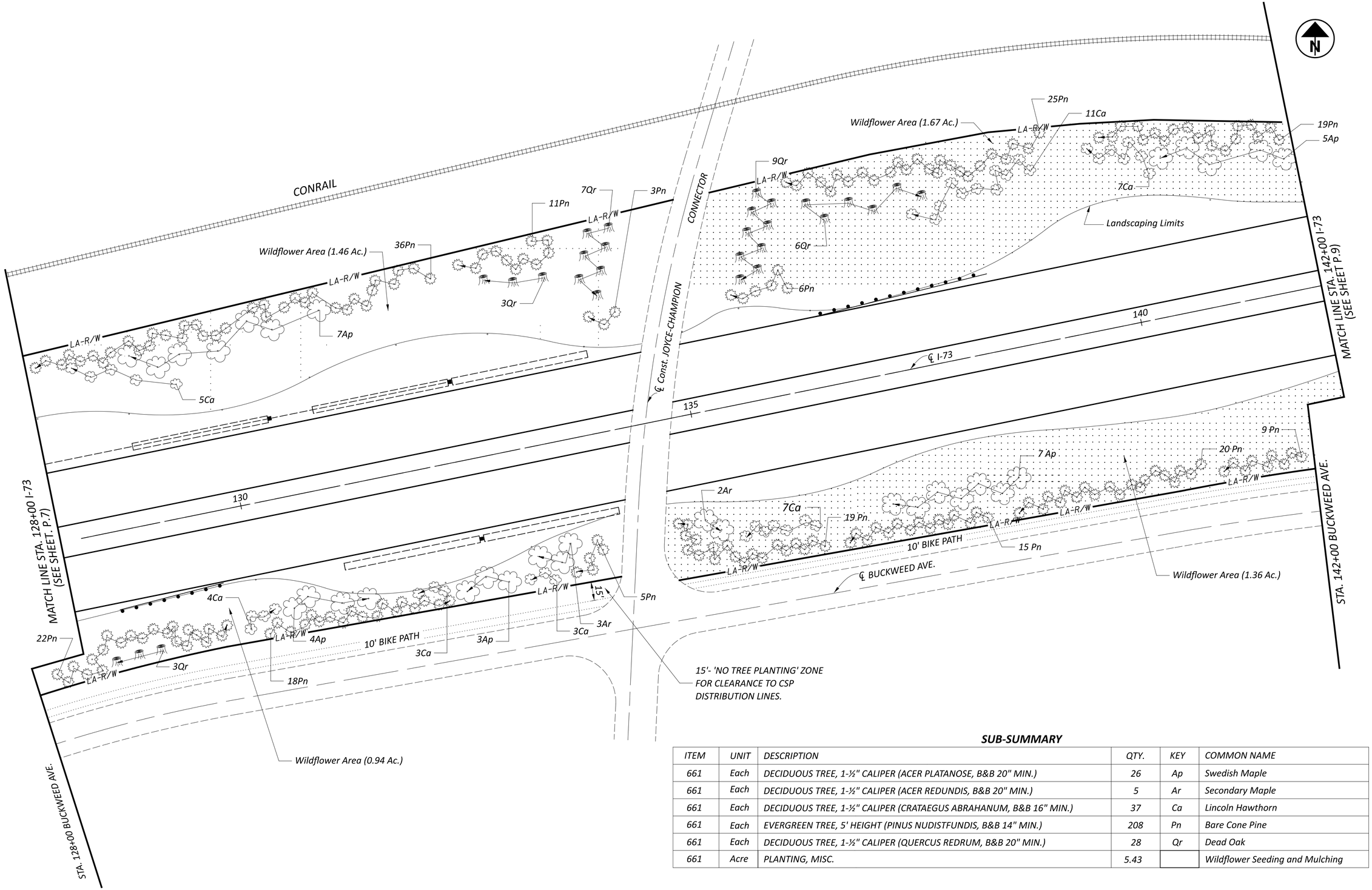
SHEET P.267 TOTAL 306

CHP-44-11.29

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SP 1314-12
DATE: JANUARY 2025

HORIZONTAL SCALE IN FEET
0 25 50 100



SUB-SUMMARY

ITEM	UNIT	DESCRIPTION	QTY.	KEY	COMMON NAME
661	Each	DECIDUOUS TREE, 1-½" CALIPER (ACER PLATANOSE, B&B 20" MIN.)	26	Ap	Swedish Maple
661	Each	DECIDUOUS TREE, 1-½" CALIPER (ACER REDUNDIS, B&B 20" MIN.)	5	Ar	Secondary Maple
661	Each	DECIDUOUS TREE, 1-½" CALIPER (CRATAEGUS ABRAHANUM, B&B 16" MIN.)	37	Ca	Lincoln Hawthorn
661	Each	EVERGREEN TREE, 5' HEIGHT (PINUS NUDISTFUNDIS, B&B 14" MIN.)	208	Pn	Bare Cone Pine
661	Each	DECIDUOUS TREE, 1-½" CALIPER (QUERCUS REDRUM, B&B 20" MIN.)	28	Qr	Dead Oak
661	Acre	PLANTING, MISC.	5.43		Wildflower Seeding and Mulching

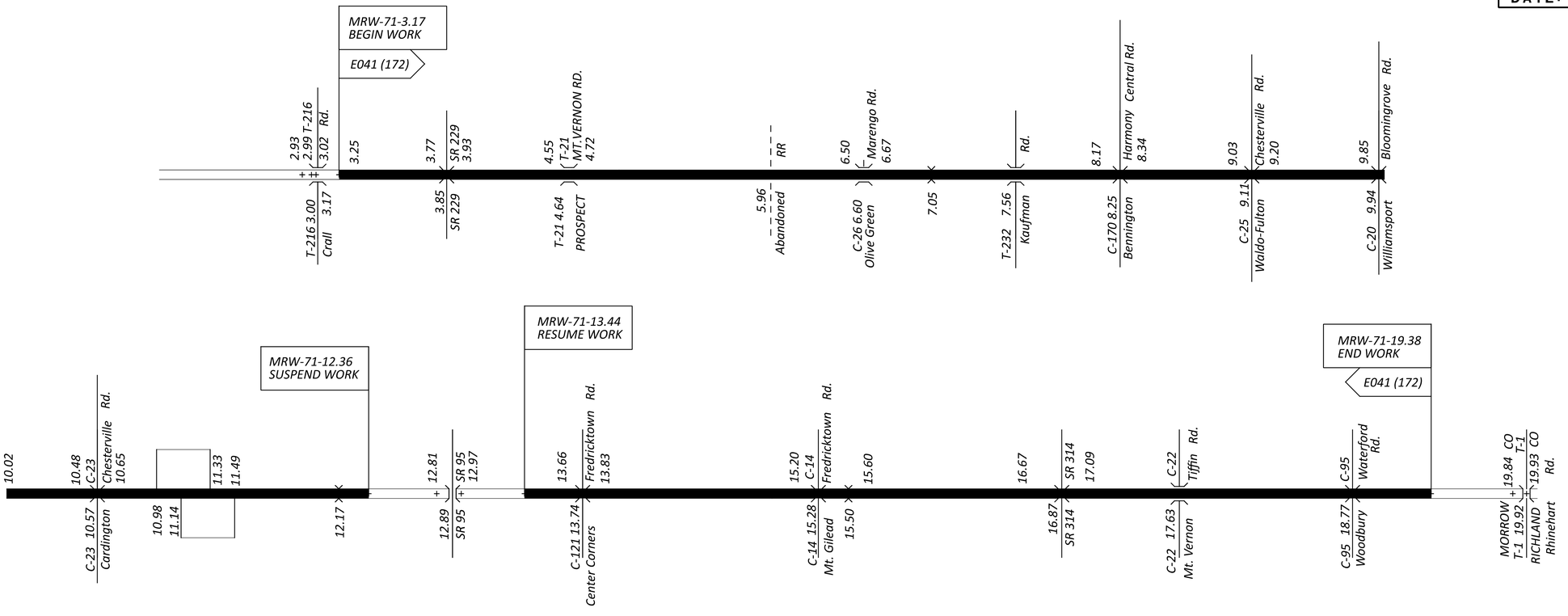
LANDSCAPING PLAN

LUC-73-3.93

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DESIGN AGENCY
John J. Doe Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

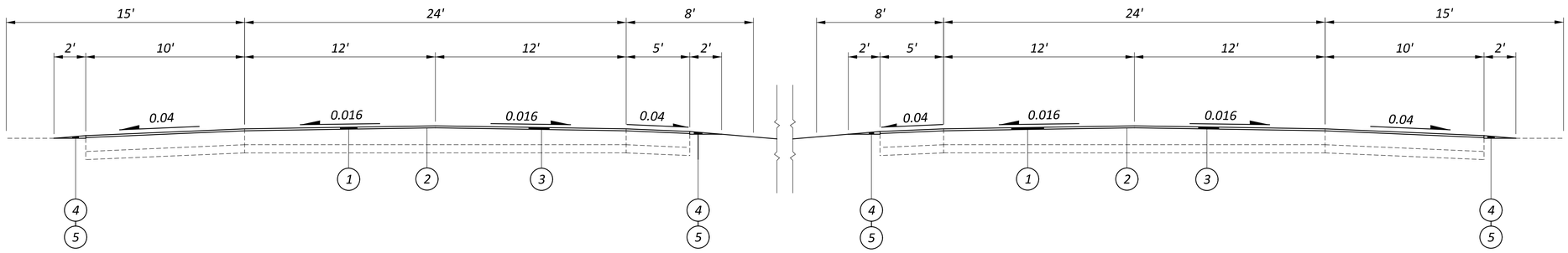
DESIGNER MTG
REVIEWER CJM 01/17/25
PROJECT ID 131412
SHEET P.8 TOTAL 13



RESURFACING

* NOTES

MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE. SHOULDER WIDTH MAY VARY NEAR EXISTING RAMPS AND CROSSOVERS.



LEGEND

1. ITEM 254 - 1½" PAVEMENT PLANING, ASPHALT CONCRETE
2. ITEM 407 - TACK COAT
3. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG 64-22
4. ITEM 408 - PRIME COAT @ 0.4 GALLONS PER SQ. YD.
5. ITEM 617 - COMPACTED AGGREGATE

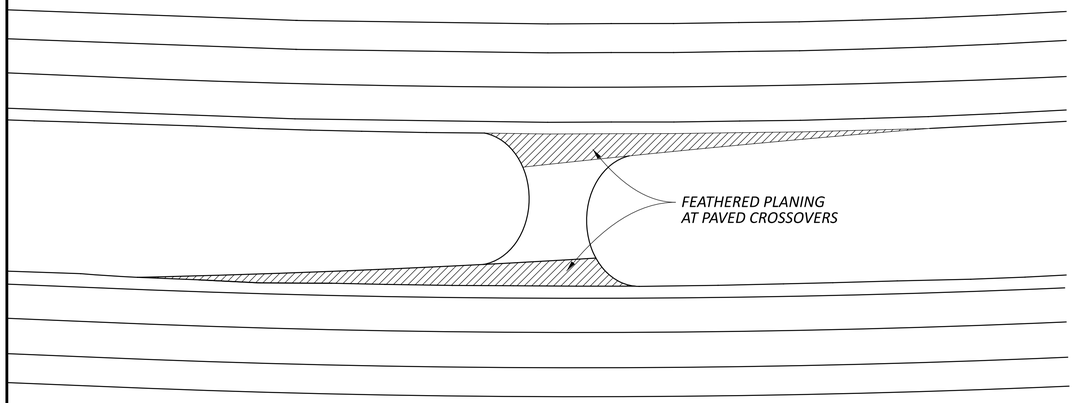
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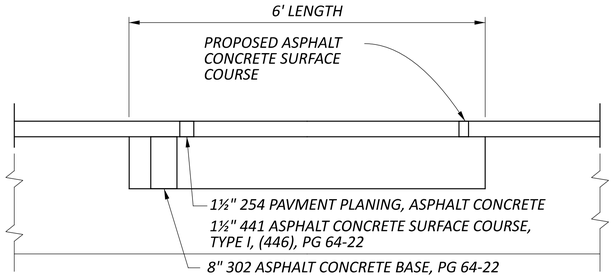
DESIGN AGENCY

DESIGNER RDK
REVIEWER CLR 01/17/25
PROJECT ID 131501
SHEET P.2 TOTAL 15

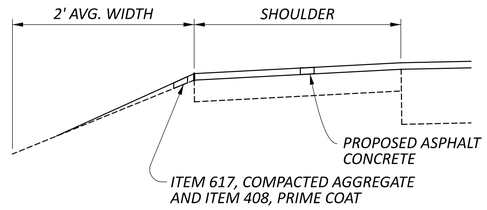
CROSSOVER DETAIL



PARTIAL DEPTH PAVEMENT REPAIR AS PER PLAN



SHOULDER DETAIL



LOCATION						PAVEMENT WIDTH							QUANTITIES						REMARKS
						NORTHBOUND				SOUTHBOUND			254	407	408	441	617	618	
	COUNTY	ROUTE	SLM	SLM	TYPICAL	LENGTH	OUTSIDE SHOULDER	PAVEMENT	MEDIAN SHOULDER	MEDIAN SHOULDER	PAVEMENT	OUTSIDE SHOULDER	PAVEMENT PLANING, ASPHALT CONCRETE (1½")	TACK COAT	PRIME COAT (0.4 GAL/YD²)	(1½") ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG 64-22	2" COMPACTED AGGREGATE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	* 6' LENGTH X 12' LANE WIDTH
						FT	FT	FT	FT	FT	FT	FT	SY	GAL	GAL	CY	CY	FT	
	MRW	71	3.17	12.07	1	46,992'	10'	24'	5'				203,632	15,272	8,354	8,485	1,161	93,984	MAINLINE (SOUTH OF SR-95)
	MRW	71	3.17	12.36	1	48,523'				5'	24'	10'	210,267	15,770	8,626	8,761	1,198	97,046	MAINLINE (SOUTH OF SR-95)
	MRW	71	13.44	19.38	1	31,363'	10'	24'	5'				135,907	10,193	5,576	5,663	775	62,726	MAINLINE (NORTH OF SR-95)
	MRW	71	13.57	19.38	1	30,677'				5'	24'	10'	132,933	9,970	5,454	5,539	758	61,354	MAINLINE (NORTH OF SR-95)
	MRW	71	10.99	11.14	1	792'	10'	32'*					3,696	277		154			EXTRA AREA (RAMP TAPER)
	MRW	71	11.39	11.70	1	1,637'	10'	32'*					7,638	573		318			EXTRA AREA (RAMP TAPER)
	MRW	71	11.33	11.48	1	792'					32'*	10'	3,696	277		154			EXTRA AREA (RAMP TAPER)
	MRW	71	10.75	11.06	1	1,637'					32'*	10'	7,638	573		318			EXTRA AREA (RAMP TAPER)
	MRW	71	4.41										340	25		14			* AVERAGE PAVEMENT WIDTH
	MRW	71	6.67														10		EXTRA AREA (PAVED CROSSOVER)
	MRW	71	7.40										340	25		14			GRAVEL CROSSOVER
	MRW	71	10.37										340	25		14			EXTRA AREA (PAVED CROSSOVER)
	MRW	71	11.98										340	25		14			EXTRA AREA (PAVED CROSSOVER)
	MRW	71	13.63										340	25		14			EXTRA AREA (PAVED CROSSOVER)
	MRW	71	14.67														10		GRAVEL CROSSOVER
	MRW	71	15.06														10		GRAVEL CROSSOVER
	MRW	71	15.60														10		GRAVEL CROSSOVER
	MRW	71	16.75										340	25		14			EXTRA AREA (PAVED CROSSOVER)
	MRW	71	17.52														10		GRAVEL CROSSOVER
	MRW	71	18.03														10		GRAVEL CROSSOVER
	MRW	71	5.96	6.01		255'	10'	24'	5'	5'	24'	10'	-2,210	-2	-45	-92	-6	-510	DEDUCTIONS & EXTRA AREAS
	MRW	71	7.05	7.07		120'	10'	24'	5'	5'	24'	10'	-1,039	4	-21	2	-3	-240	DEDUCTIONS & EXTRA AREAS
	MRW	71	7.56	7.59		145'	10'	24'	5'	5'	24'	10'	-1,254	5	-26	3	-4	-289	DEDUCTIONS & EXTRA AREAS
	MRW	71	12.17	12.19		103'	10'	24'	5'	5'	24'	10'	-892	3	-18	2	-3	-206	DEDUCTIONS & EXTRA AREAS
	MRW	71	15.50	15.52		80'	10'	24'	5'	5'	24'	10'	-691	3	-14	1	-2	-159	DEDUCTIONS & EXTRA AREAS
	MRW	71	17.63	17.68		257'	10'	24'	5'	5'	24'	10'	-2,224	9	-46	5	-6	-513	DEDUCTIONS & EXTRA AREAS
	MRW	71	18.77	18.80		155'	10'	24'	5'	5'		10'	-1,341	5	-28	3	-4	-309	DEDUCTIONS & EXTRA AREAS
TOTALS CARRIED TO SUBSUMMARY													697,797	53,082	27,812	29,400	3,924	312,883	

PAVEMENT SUBSUMMARY AND DETAILS

DESIGN AGENCY

DESIGNER RDK

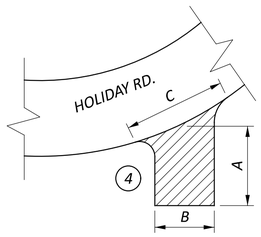
REVIEWER RDK 01/17/25

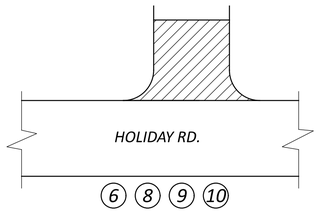
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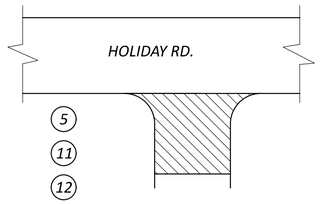
SHEET P.8 TOTAL 15

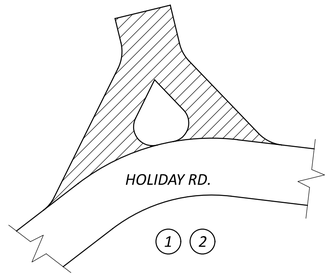
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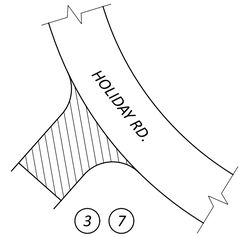
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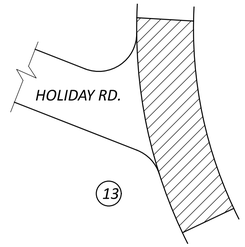












PART	ROUTE	SLM	SIDE	DESCRIPTION	INTERSECTIONS A	INTERSECTIONS B	INTERSECTIONS C	AREA	PROPOSED ITEMS 407 TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG 64-22 THICKNESS	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG 64-22 QUANTITY	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446) THICKNESS	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446) QUANTITY	EXISTING SURFACE	408 PRIME COAT (@ 0.40 GAL/YD²)	
					FT	FT	FT	YD²	GAL	INCHES	CY	INCHES	CY		GAL	
	CR-444	0.00 - 5.88	LT	(1) POOR RD. (T-304)	182	17	59	1,194		1.00	33	1.75	58	GRAVEL/TAR & CHIP	478	
			LT	(2) POOR RD. SPUR (T-304)	43	17	43	206		1.00	6	1.75	10	GRAVEL/TAR & CHIP	82	
			RT	(3) VISTA RD. (T-223)	39	20	85	369	28	1.00	10	1.75	18	ASPHALT		
			RT	(4) TURNER RD. (T-156)	35	17	65	253		1.00	7	1.75	12	GRAVEL	101	
			RT	(5) BASIL RD. (T-155/CR156)	70	18	120	934	70	1.00	26	1.75	45	ASPHALT		
			LT	(6) WOODY RD. (T-155)	30	16	54	180	14	1.00	5	1.75	9	ASPHALT		
			LT	(7) McCORD RD. SPUR (T-155A)	70	12	145	1,128		1.00	31	1.75	55	GRAVEL	451	
			LT	(8) BUMP RD. (T-215)	30	18	70	234	17	1.00	7	1.75	11	ASPHALT		
			LT	(9) ROUND CIRCLE	33	18	50	184	14	1.00	5	1.75	9	ASPHALT		
			LT	(10) GRAPE RD. (T-485)	30	18	95	317	24	1.00	9	1.75	15	ASPHALT		
			RT	(11) SOUTHERN DR.	24	18	40	107	8	1.00	3	1.75	5	ASPHALT		
			RT	(12) CHIP RD. (T-316)	60	18	96	640	48	1.00	18	1.75	31	ASPHALT		
			LT	(13) HOLIDAY RD./SR 32	60	26	112	747	56	1.00	21	1.75	36	ASPHALT		
							TOTAL	6,493								
TOTALS (CARRIED TO SHEET P.10)									279		181		314		1,112	

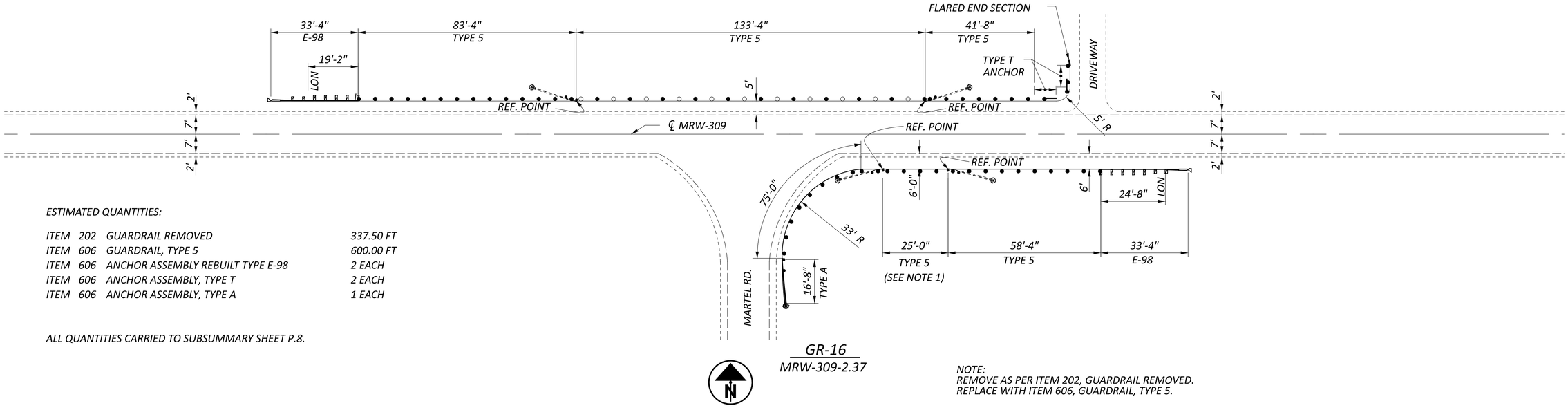
CALCULATIONS

KNO-444-0.00

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DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000

DESIGNER DKH
REVIEWER CLH 01/17/25
PROJECT ID 131503
SHEET P.11 TOTAL 15



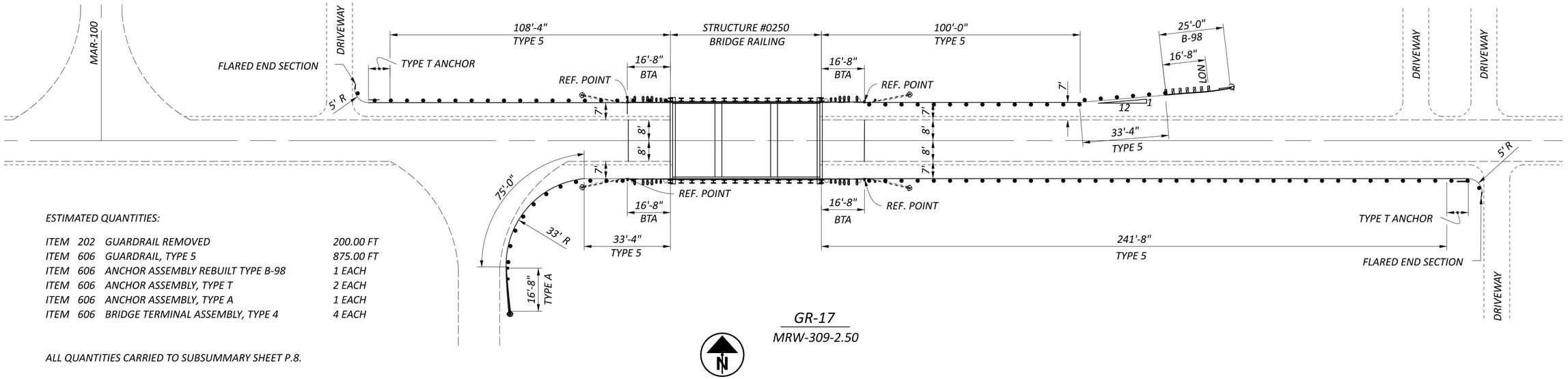
GR-16
MRW-309-2.37

ESTIMATED QUANTITIES:

ITEM	202	GUARDRAIL REMOVED	337.50 FT
ITEM	606	GUARDRAIL, TYPE 5	600.00 FT
ITEM	606	ANCHOR ASSEMBLY REBUILT TYPE E-98	2 EACH
ITEM	606	ANCHOR ASSEMBLY, TYPE T	2 EACH
ITEM	606	ANCHOR ASSEMBLY, TYPE A	1 EACH

ALL QUANTITIES CARRIED TO SUBSUMMARY SHEET P.8.

NOTE:
REMOVE AS PER ITEM 202, GUARDRAIL REMOVED.
REPLACE WITH ITEM 606, GUARDRAIL, TYPE 5.



GR-17
MRW-309-2.50

ESTIMATED QUANTITIES:

ITEM	202	GUARDRAIL REMOVED	200.00 FT
ITEM	606	GUARDRAIL, TYPE 5	875.00 FT
ITEM	606	ANCHOR ASSEMBLY REBUILT TYPE B-98	1 EACH
ITEM	606	ANCHOR ASSEMBLY, TYPE T	2 EACH
ITEM	606	ANCHOR ASSEMBLY, TYPE A	1 EACH
ITEM	606	BRIDGE TERMINAL ASSEMBLY, TYPE 4	4 EACH

ALL QUANTITIES CARRIED TO SUBSUMMARY SHEET P.8.

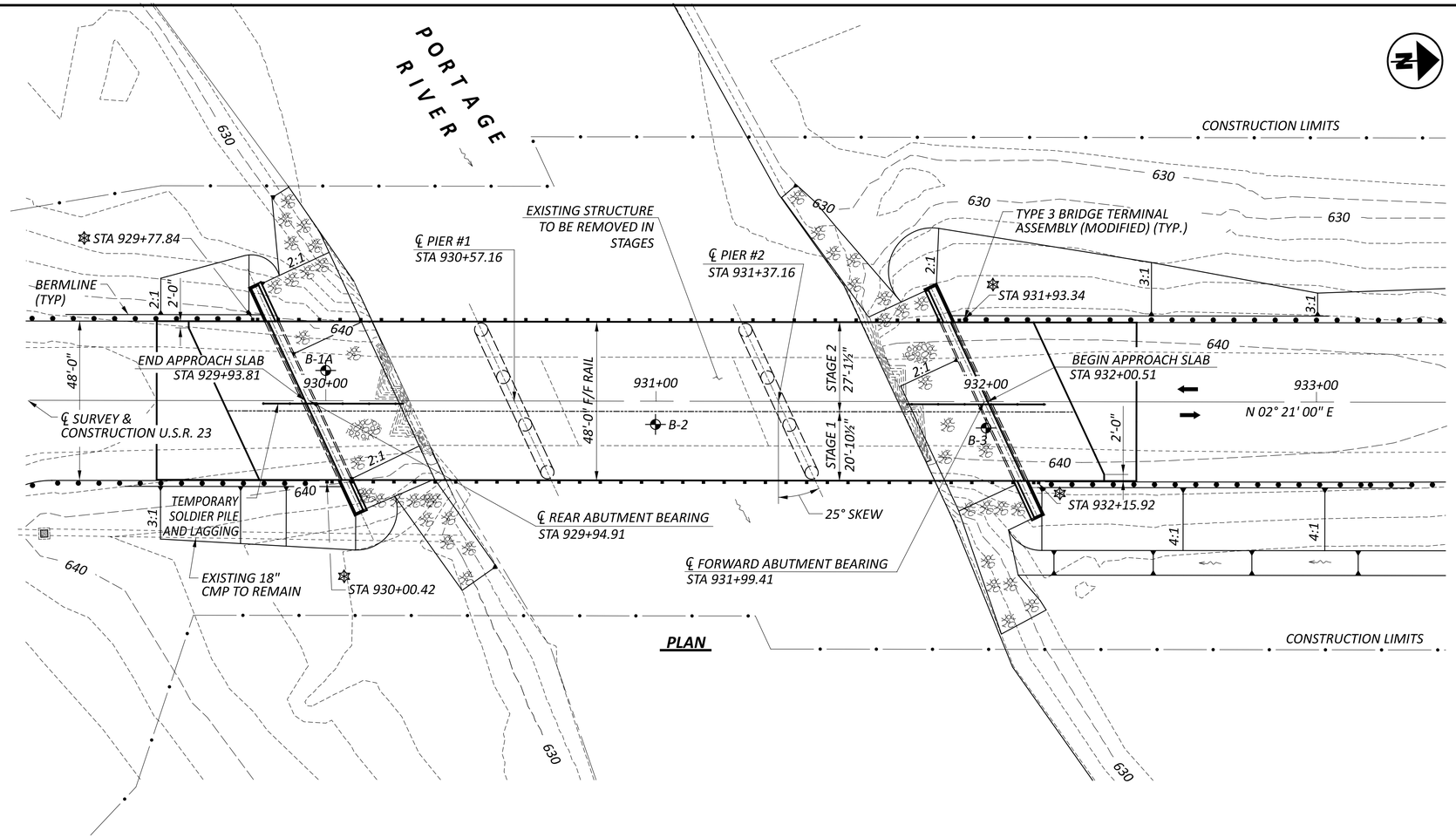
GUARDRAIL PLAN
MRW-309

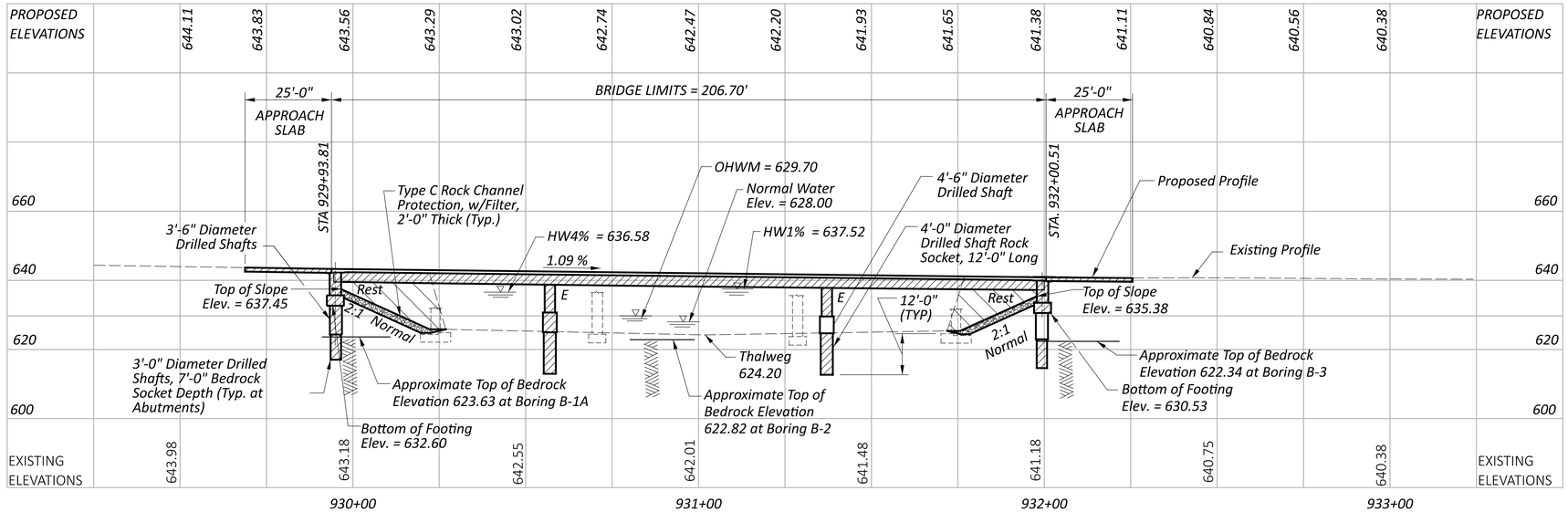
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DESIGN AGENCY
John J. Doe
Consulting, Inc.
9999 ENGLISH DRIVE
COMPUTERLAND, OHIO 00000

DESIGNER MBQ
REVIEWER JOD 01/17/25
PROJECT ID 131504
SHEET P.18 TOTAL 33





PROFILE ALONG ℄ SURVEY & CONSTRUCTION U.S. 23

SP 1316-1
DATE: JANUARY 2025

BENCHMARK DATA

BM #1 - STA. 929+41.07, OFFSET 51.90' LT, NAIL ELEV. = 635.54

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET P.2 OF P.40.

NOTES:

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2015 ADT = 4600 2015 ADTT = 874
2035 ADT = 5800 2035 ADTT = 1102
DIRECTIONAL DISTRIBUTION = 55%

LEGEND:

HW - HIGHWATER
E - EXPANSION
⊕ ORIGINAL SOIL BORING LOCATION
REST - RESTRAINED
✲ - 2ND GUARDRAIL POST STATION
▨ - CHANNEL EXCAVATION

HYDRAULIC DATA

DRAINAGE AREA = 428 sq miles
Q (4%) = 10800 cfs V (4%) = 6.0 ft/s
Q (1%) = 13000 cfs V (1%) = 6.6 ft/s
STRUCTURE CLEARS THE 4% DESIGN AEP HW BY 0.87 FEET.

EXISTING STRUCTURE
(TO BE REMOVED)

TYPE: CONTINUOUS STEEL BEAM WITH COMPOSITE REINFORCED CONCRETE DECK AND SUPERSTRUCTURE
SPANS: 46'-0"±, 58'-0"±, 46'-0"± C/C BEARINGS
ROADWAY: 27'-0"± F/F RAIL
LOADING: H-15
SKEW: 25° RF
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
CROWN: 3/16" PER FOOT
STRUCTURAL FILE NUMBER: 8701504
DATE BUILT: 1945 CONDITION: FAIR
DISPOSITION: TO BE REMOVED IN STAGES

PROPOSED STRUCTURE

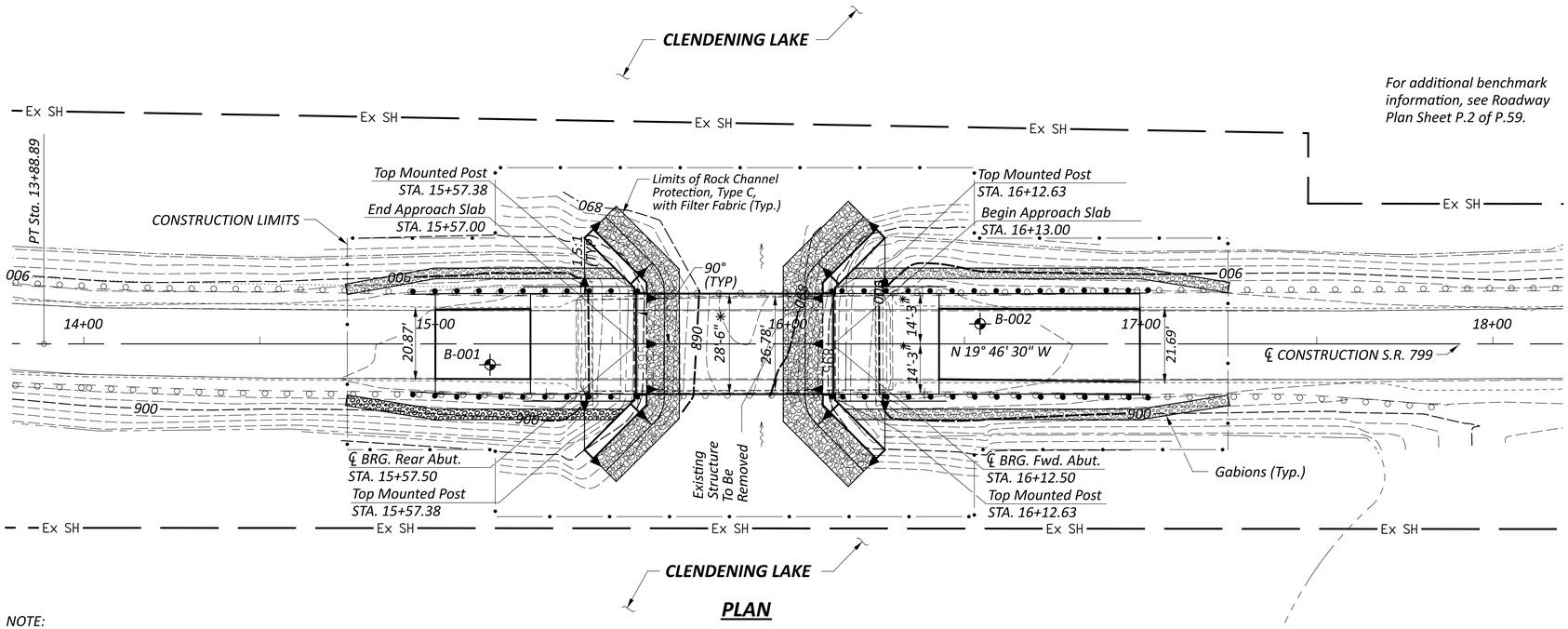
TYPE: 3-SPAN CONTINUOUS A588 WEATHERING STEEL BEAM WITH COMPOSITE REINFORCED CONCRETE DECK ON CAP AND COLUMN PIERS, AND SEMI-INTEGRAL ABUTMENT ON DRILLED SHAFTS
SPANS: 62'-3", 80'-0", 62'-3" C/C BEARINGS
ROADWAY: 48'-0" F/F GUARDRAIL
LOADING: HS25 CASE II AND ALTERNATE MILITARY
SKEW: 25° RF TO ℄ SURVEY & CONSTRUCTION
APPROACH SLABS: 25'-0" LONG (AS-1-81)
WEARING SURFACE: MONOLITHIC CONCRETE
ALIGNMENT: TANGENT
CROWN: 3/16" PER FOOT
DECK AREA = 9,922 SQ.FT.
COORDINATES: LATITUDE 41°25'27.21"N
LONGITUDE 83°25'12.05"W

SITE PLAN
BRIDGE NO. WOO-23-1760 OVER THE PORTAGE RIVER
STA. 929+93.81 TO STA. 932+00.51

SFN 8701512
DESIGN AGENCY
ODOT-CO STRUCTURAL ENGINEERING
DESIGNER BCW | CHECKER DB
REVIEWER TAA 01/17/25
PROJECT ID 131601
SUBSET 1 | TOTAL 20
SHEET P.20 | TOTAL 40

WOO-23-17.60

MODEL: SP1316-1 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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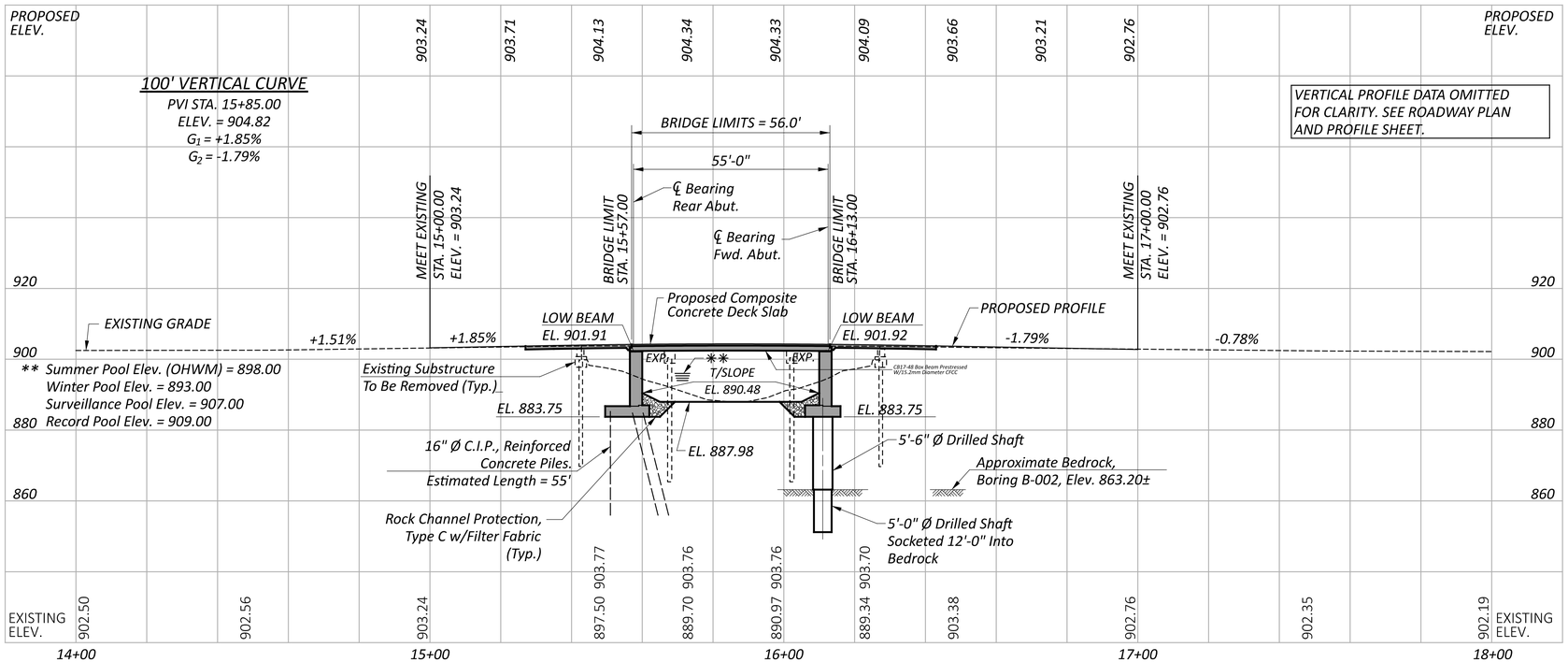


PLAN

For additional benchmark information, see Roadway Plan Sheet P.2 of P.59.

NOTE:
The pool elevations are maintained by USACE, Huntington District, by controlling the flow at the outlet or spillway. The Contractor is responsible for coordinating construction activities with the owner.

* Includes 1" gap between beams for post-tensioning



PROFILE ALONG ℄ SURVEY AND ℄ CONSTRUCTION S.R. 799

BENCHMARK DATA

BM #1, IPF, STA. 10+43.26 ,	OFFSET 12.67' LEFT,	ELEV. = 906.40
BM #2, IPF, STA. 15+01.16 ,	OFFSET 12.21' RIGHT,	ELEV. = 903.22
BM #3, IPF, STA. 18+98.99 ,	OFFSET 14.27' LEFT,	ELEV. = 902.52

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
2016 ADT = 540 2016 ADTT = 38
2036 ADT = 550 2036 ADTT = 39
DIRECTIONAL DISTRIBUTION = 53%

LEGEND

⌖ APPROXIMATE BORING LOCATION
CFCC = CARBON FIBER COMPOSITE CABLE

HYDRAULIC DATA

DRAINAGE AREA = 2.81 SQ. MILES SPILLWAY ELEV. = 910.50
TOP OF DAM ELEV. = 925.50

PROPOSED WORK

1. REMOVE EXISTING WEARING SURFACE, RAILING, BOX BEAMS, ABUTMENTS, PIER CAPS, AND PORTIONS OF EXISTING PIER PILES.
2. CONSTRUCT NEW ABUTMENTS AND WINGWALLS.
3. INSTALL NEW ABUTMENT BEARINGS.
4. SET BOX BEAMS WITH WATERTIGHT RUBBER SEALS AT ALL DUCT LOCATIONS, AS WELL AS 4"X4"X1" PLYWOOD SPACERS AT LOCATIONS IN PLANS.
5. INSTALL STRANDS IN DUCTS FOR POST-TENSIONING, GROUT JOINTS/ SHEAR KEYS AND ALLOW TO COME TO STRENGTH BEFORE POST-TENSIONING BEAMS.
6. FULLY POST-TENSION TRAVERSELY AT ALL DIAPHRAGM LOCATIONS, GROUT THE DUCTS.
7. CONSTRUCT THE DECK SLAB, ABUTMENT ABOVE THE BRIDGE SEAT AND APPROACH SLABS.
8. INSTALL TWIN TUBE RAILING.
9. SEAL ALL CONCRETE SURFACES.

EXISTING STRUCTURE

TYPE: PRESTRESSED CONCRETE BOX BEAMS ON CAPPED PILE ABUTMENTS AND PIERS
SPANS: 24'-0" , 33'-0" , 24'-0" C/C BEARINGS
ROADWAY: 26'-8" F/F SAFETY CURB
LOADING: HS20-44 SKEW: NONE
WEARING SURFACE: 2 3/4" ASPHALT CONCRETE
APPROACH SLABS: NONE ALIGNMENT: TANGENT
CROWN: 3/16" PER FOOT DATE BUILT: 1983
STRUCTURAL FILE NUMBER: 3403173
DISPOSITION: STRUCTURE TO BE REPLACED

PROPOSED STRUCTURE

TYPE: SINGLE SPAN PRESTRESSED CONCRETE COMPOSITE BOX BEAMS WITH CFCC STRANDS, TRANSVERSELY POST-TENSIONED, WITH SEMI-INTEGRAL WALL TYPE ABUTMENTS SUPPORTED ON CAST-IN-PLACE PILES AND DRILLED SHAFTS
SPANS: 55'-0" C/C BEARINGS
ROADWAY: 28'-6" F/F GUARDRAIL TOE/TOE PARAPET
LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE
SKEW: NONE
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLABS: 30'-0" LONG (AS-1-81)
ALIGNMENT: TANGENT CROWN: 3/16" FT/FT
DECK AREA: 1,568 SQ.FT.
COORDINATES: LATITUDE 40°14'45.83"N LONGITUDE 81°12'07.62"W

SITE PLAN
BRIDGE NO. HAS-799-0380 OVER CLENDENING LAKE
STA. 15+57.00 TO STA. 16+13.00

SFN 3410000
DESIGN AGENCY
Jane C. Smith Consulting, Inc.
9999 English Drive
Computerland, Ohio 00000
DESIGNER AMM | CHECKER AMT
REVIEWER DWS 01/17/25
PROJECT ID 131602
SUBSET 1 | TOTAL 21
SHEET P.25 | TOTAL 59

HAS-799-0380
MODEL: SP1316-2 PAPERSIZE: 34x22 (in.) DATE: 1/17/2025 TIME: 8:00:00 AM
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