MUS-376-5.09

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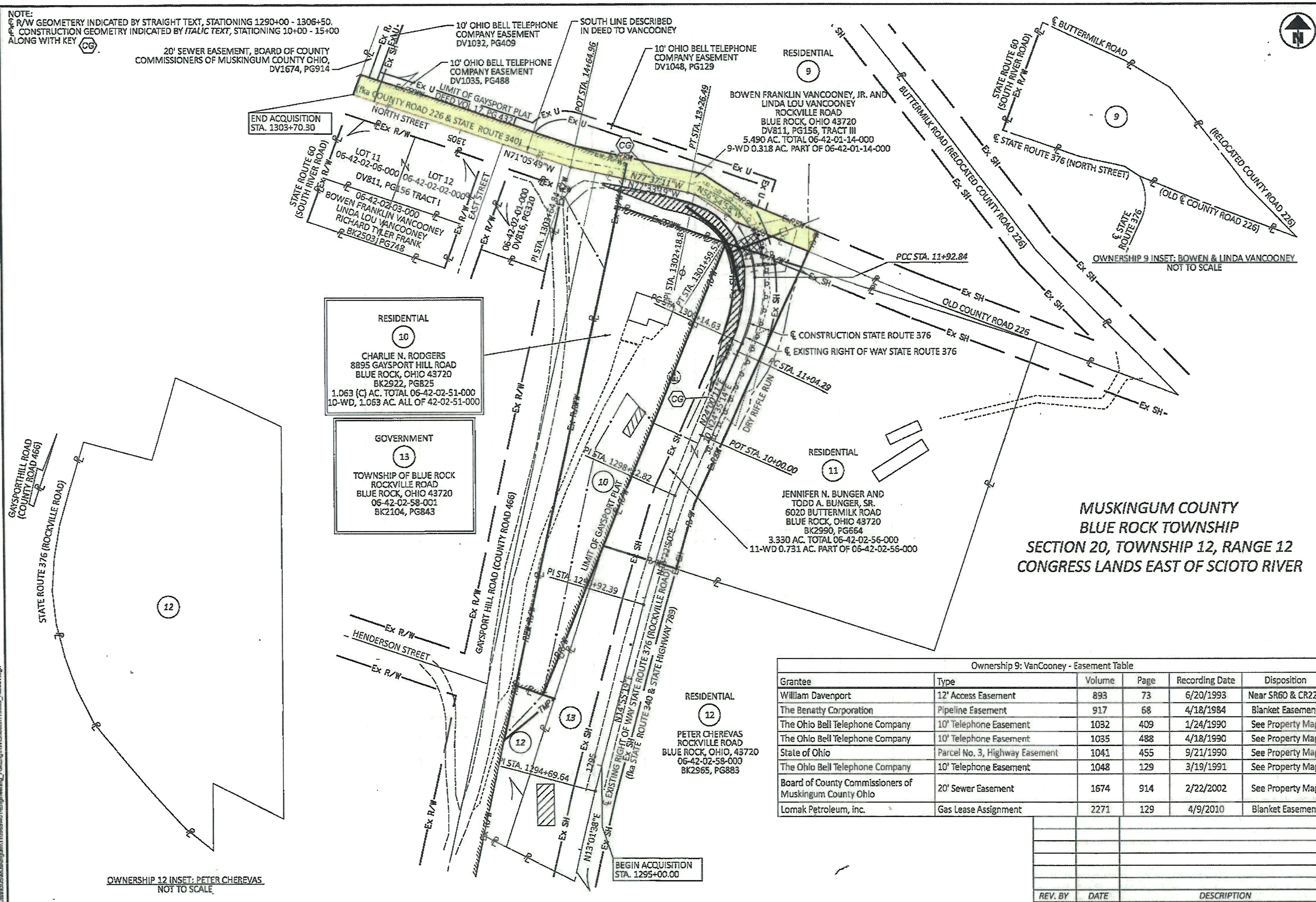
NOTE:
℄ R/W GEOMETERY INDICATED BY STRAIGHT TEXT, STATIONING 1290+00 - 1306+50.
℄ CONSTRUCTION GEOMETRY INDICATED BY *ITALIC TEXT*, STATIONING 10+00 - 15+00 ALONG WITH KEY (CG).



20' SEWER EASEMENT, BOARD OF COUNTY COMMISSIONERS OF MUSKINGUM COUNTY OHIO, DV1674, PG914
10' OHIO BELL TELEPHONE COMPANY EASEMENT DV1032, PG409
10' OHIO BELL TELEPHONE COMPANY EASEMENT DV1035, PG488
SOUTH LINE DESCRIBED IN DEED TO VANCOONEY
10' OHIO BELL TELEPHONE COMPANY EASEMENT DV1048, PG129
END ACQUISITION STA. 1303+70.30
STATE ROUTE 60 (SOUTH RIVER ROAD)
NORTH STREET
EAST STREET
LOT 11 06-42-02-06-000
LOT 12 06-42-02-02-000
DV811, PG156 TRACT I
06-42-02-03-000 BOWEN FRANKLIN VANCOONEY LINDA LOU VANCOONEY RICHARD TYLER FRANK BK2503, PG748
06-42-02-01-000 DV816, PG320
RESIDENTIAL
9
BOWEN FRANKLIN VANCOONEY, JR. AND LINDA LOU VANCOONEY ROCKVILLE ROAD BLUE ROCK, OHIO 43720 DV811, PG156, TRACT III 5.490 AC. TOTAL 06-42-01-14-000 9-WD 0.318 AC. PART OF 06-42-01-14-000
BUTTERMILK ROAD (RELOCATED COUNTY ROAD 226)
PCC STA. 11+92.84
OLD COUNTY ROAD 226
℄ CONSTRUCTION STATE ROUTE 376
℄ EXISTING RIGHT OF WAY STATE ROUTE 376
PC STA. 11+04.29
POT STA. 10+00.00
DRY RIFFLE RUN
PI STA. 1302+18.8
PT STA. 1301+59.5
POT STA. 14+64.96
PT STA. 13+26.49
RESIDENTIAL
10
CHARLIE N. RODGERS 8895 GAYSPORT HILL ROAD BLUE ROCK, OHIO 43720 BK2922, PG825 1.063 (C) AC. TOTAL 06-42-02-51-000 10-WD, 1.063 AC. ALL OF 42-02-51-000
GOVERNMENT
13
TOWNSHIP OF BLUE ROCK ROCKVILLE ROAD BLUE ROCK, OHIO 43720 06-42-02-58-001 BK2104, PG843
RESIDENTIAL
11
JENNIFER N. BUNGER AND TODD A. BUNGER, SR. 6020 BUTTERMILK ROAD BLUE ROCK, OHIO 43720 BK2990, PG664 3.330 AC. TOTAL 06-42-02-56-000 11-WD 0.731 AC. PART OF 06-42-02-56-000
GAYSPORT HILL ROAD (COUNTY ROAD 466)
LIMIT OF GAYSPORT PLAT
PI STA. 1298+2.82
PI STA. 1296+92.39
PI STA. 1294+69.64
HENDERSON STREET
℄ EXISTING RIGHT OF WAY STATE ROUTE 376 (ROCKVILLE ROAD) (fka STATE ROUTE 340 & STATE HIGHWAY 789)
N13°01'38"E
BEGIN ACQUISITION STA. 1295+00.00
RESIDENTIAL
12
PETER CHEREVAS ROCKVILLE ROAD BLUE ROCK, OHIO, 43720 06-42-02-58-000 BK2965, PG883
GAYSPORTHILL ROAD (COUNTY ROAD 466)
STATE ROUTE 376 (ROCKVILLE ROAD)
OWNERSHIP 12 INSET: PETER CHEREVAS NOT TO SCALE
℄ BUTTERMILK ROAD
℄ STATE ROUTE 376 (NORTH STREET)
(OLD ℄ COUNTY ROAD 226)
(RELOCATED COUNTY ROAD 226)
℄ STATE ROUTE 376
OWNERSHIP 9 INSET: BOWEN & LINDA VANCOONEY NOT TO SCALE
HORIZONTAL SCALE IN FEET
0 25 50 100

MUSKINGUM COUNTY
BLUE ROCK TOWNSHIP
SECTION 20, TOWNSHIP 12, RANGE 12
CONGRESS LANDS EAST OF SCIOTO RIVER

Ownership 9: VanCooney - Easement Table

Grantee	Type	Volume	Page	Recording Date	Disposition
William Davenport	12' Access Easement	893	73	6/20/1993	Near SR60 & CR226
The Benatty Corporation	Pipeline Easement	917	68	4/18/1984	Blanket Easement
The Ohio Bell Telephone Company	10' Telephone Easement	1032	409	1/24/1990	See Property Map
The Ohio Bell Telephone Company	10' Telephone Easement	1035	488	4/18/1990	See Property Map
State of Ohio	Parcel No. 3, Highway Easement	1041	455	9/21/1990	See Property Map
The Ohio Bell Telephone Company	10' Telephone Easement	1048	129	3/19/1991	See Property Map
Board of County Commissioners of Muskingum County Ohio	20' Sewer Easement	1674	914	2/22/2002	See Property Map
Lomak Petroleum, Inc.	Gas Lease Assignment	2271	129	4/9/2010	Blanket Easement

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/03/2013

PROPERTY MAP

DESIGN AGENCY: TF ASSOCIATES
DESIGNER: JPS
REVIEWER: FDS 05/03/23
PROJECT ID: 115989
SUBSET: RW.4 TOTAL: 7

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/8/2023 TIME: 5:30:29 PM USER: fsnyder
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SUMMARY OF ADDITIONAL RIGHT OF WAY

TOTAL NUMBER OF :

4 OWNERSHIPS — 1 TOTAL TAKES

4 PARCELS — 1 OWNERSHIPS W/ STRUCTURES INVOLVED

NET TAKE = GROSS TAKE - PRO IN TAKE
NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE
ALL AREAS IN ACRES

GRANTEE:
ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
STATE OF OHIO DEPARTMENT OF TRANSPORTATION
UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	RW. SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1-8	NUMBER NOT USED																
9-WD	BOWEN FRANKLIN VANCOONEY, JR. AND LINDA LOU VANCOONEY	7	DV811	156	06-42-01-14-000	5.490	1.140 (c)	0.318	0.318(c)	0.000	NO		4.350		TRACT III; SEE EASEMENT TABLE, SHEET RW.4		
			DV811	156	06-42-02-06-000	0.103	-	-	-	-		0.103			TRACT I, LOT 11; NO ADDITIONAL RIGHT OF WAY REQUIRED		
			DV811	156	06-42-02-02-000	0.149	-	-	-	-		0.149			TRACT I, LOT 12; NO ADDITIONAL RIGHT OF WAY REQUIRED		
			DV816	320	06-42-02-01-000	0.156	-	-	-	-		0.156			NO ADDITIONAL RIGHT OF WAY REQUIRED		
					TOTAL:	5.898	1.140	0.318	0.318	0.000		0.408	4.350				
10-WD	CHARLIE N. RODGERS	6, 7	2922	825	06-42-02-51-000	1.063 (c)	0.000	1.063	0.000	1.063	YES	0.000			TOTAL TAKE AUDITOR'S RECORD AREA = 1.061 Ac.		
11-WD	JENNIFER N. BUNGER AND TODD A. BUNGER, SR.	6, 7	2990	664	06-42-02-56-000	3.330	0.549 (c)	0.731	0.438	0.294	NO		2.487	100% STATE	TAKE WELL		
12-T	PETER CHEREVAS	6	2965	883	06-42-02-58-000	35.190	1.154	0.035	0.000	0.035	NO				GRADING, ACCESS		
13	TOWNSHIP OF BLUE ROCK	6	2104	843	06-42-02-58-001	0.620	0.217	-	-	-	NO				NO ADDITIONAL RIGHT OF WAY REQUIRED		

NOTE: ALL TEMPORARY PARCELS TO BE OF 18 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

TYPES OF TITLE LEGEND:
WD = WARRANTY DEED
T = TEMPORARY EASEMENT

DV = DEED VOLUME

(c) = CALCULATED AREA

** DENOTES RIGHT OF WAY ENCROACHMENT*

REV. BY	DATE	DESCRIPTION

FIELD REVIEW BY: FRANKLIN D. SYNDER, JR., PS DATE: 03/29/2023
OWNERSHIP VERIFIED BY: FRANLIN SNYDER, JR.,PS DATE: 05/03/2023
DATE COMPLETED 05/03/2023

DESIGN AGENCY: TF ASSOCIATES

DESIGNER: JPS
REVIEWER: FDS 05/03/23
PROJECT ID: 115989
SUBSET: RW.5 TOTAL: 7

MUS-376-5.09

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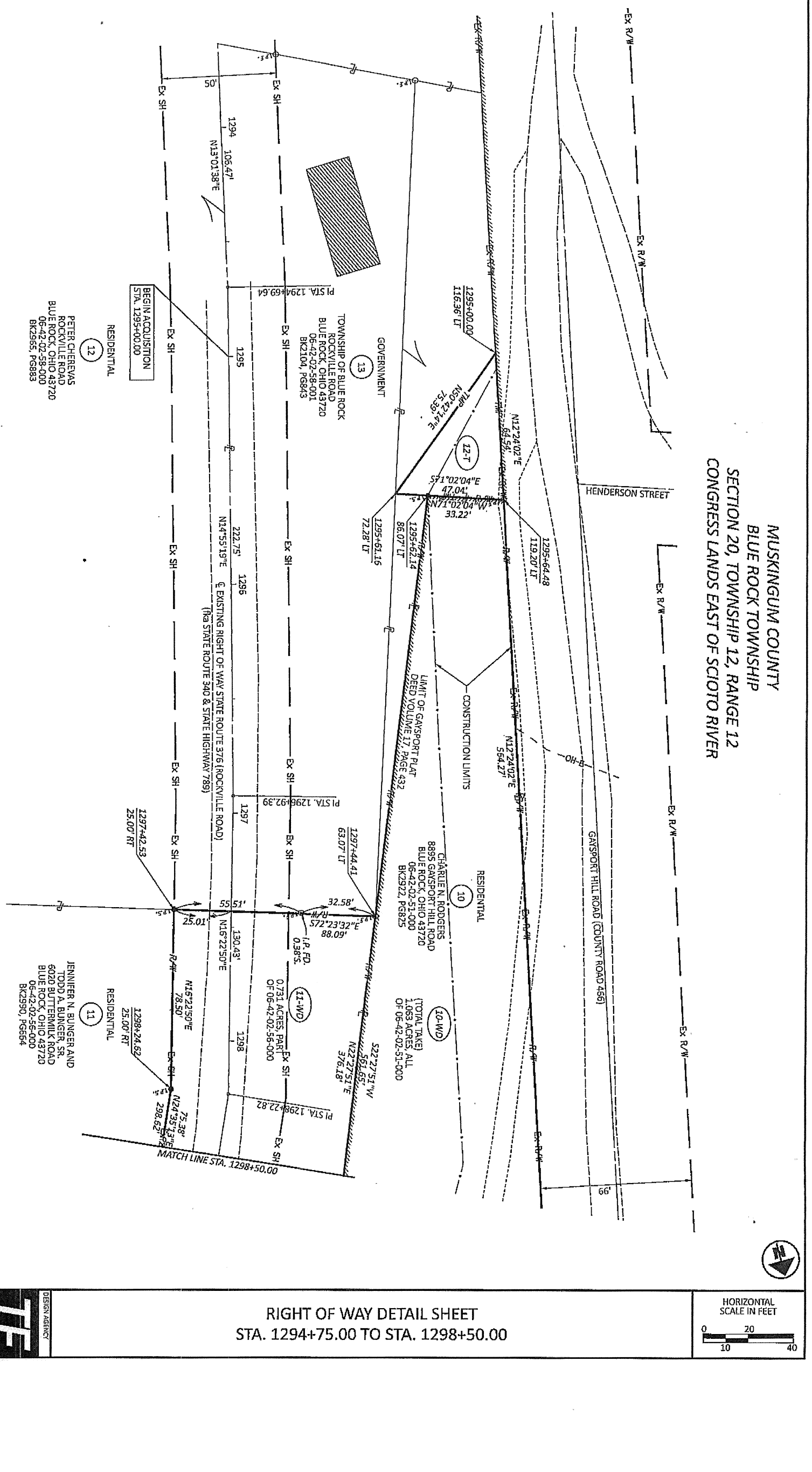
MUSKINGUM COUNTY
BLUE ROCK TOWNSHIP
SECTION 20, TOWNSHIP 12, RANGE 12
CONGRESS LANDS EAST OF SCIOTO RIVER



RIGHT OF WAY DETAIL SHEET
STA. 1294+75.00 TO STA. 1298+50.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
TF ASSOCIATES

DESIGNER	JPS
REVIEWER	
FDS	05/03/23
PROJECT ID	115989
SUBSET	RW 6
TOTAL	7

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/03/2023

MUS-376-5.09

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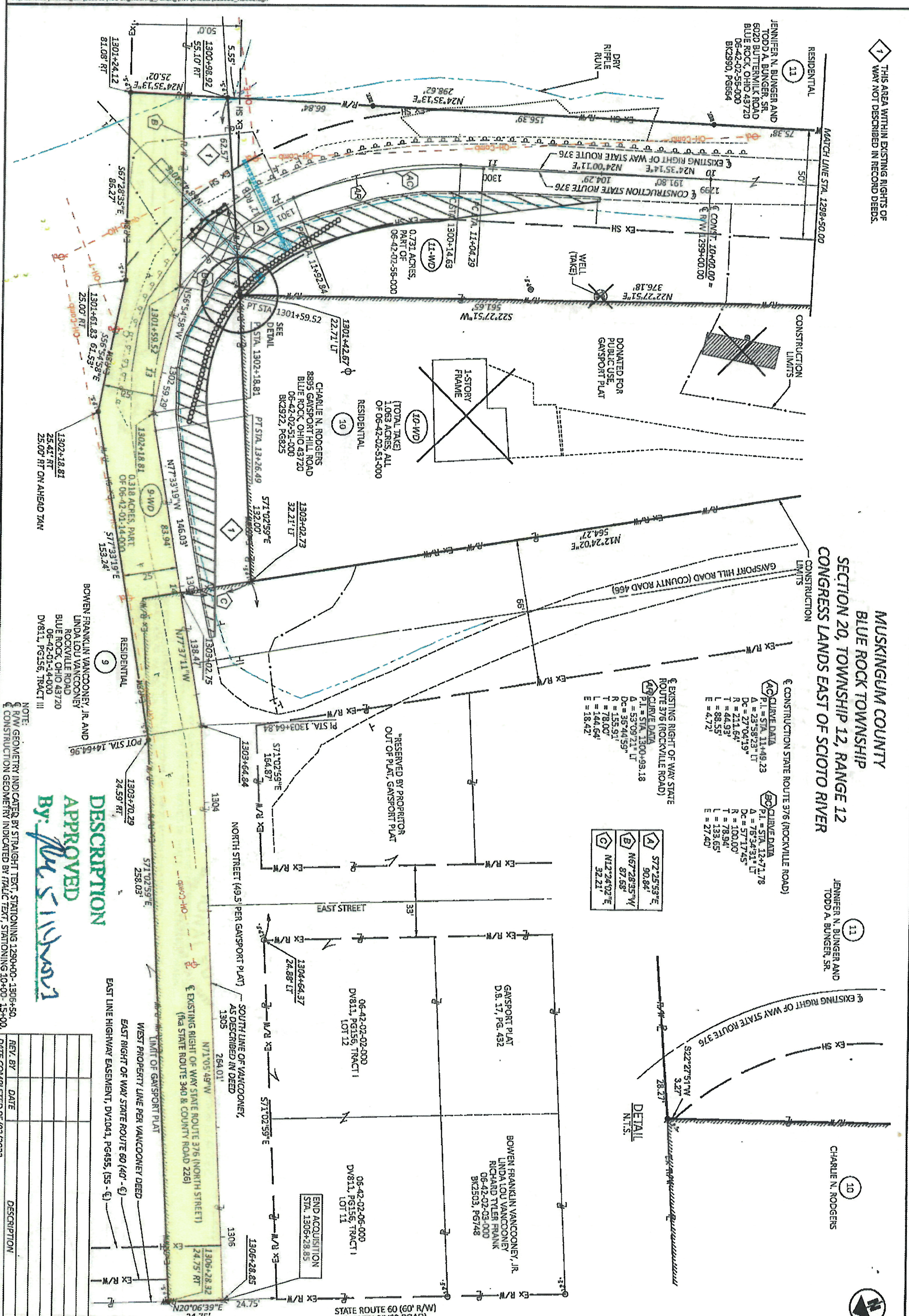


RIGHT OF WAY DETAIL SHEET
STA. 1298+50.00 TO STA. 1304+50.00

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

DESIGN AGENCY: TF ASSOCIATES

DESIGNER	REVIEWER	PROJECT ID	SUBSET	TOTAL
JPS	FDS 05/03/23	115989	RW.7	7

REV. BY	DATE	DESCRIPTION

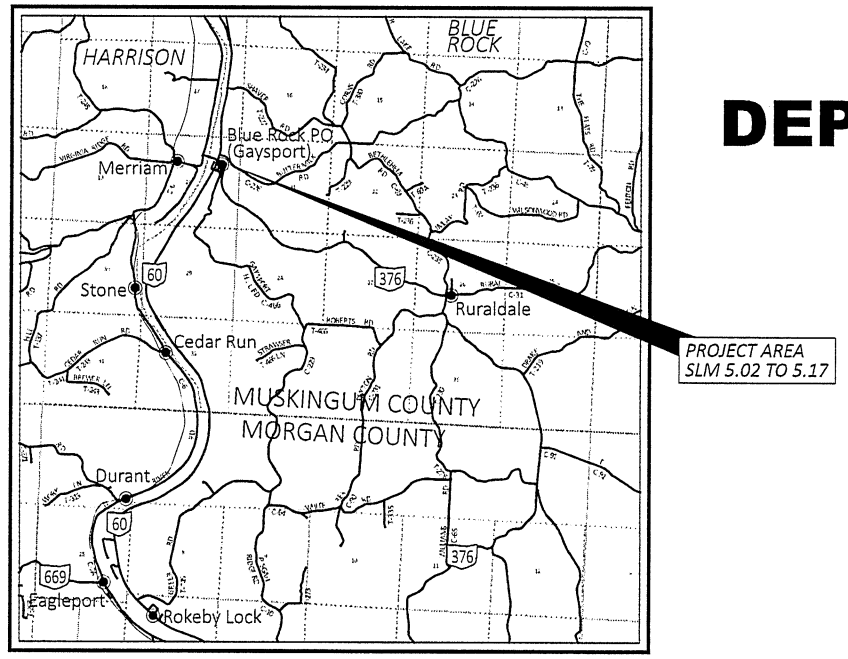
DATE COMPLETED 05/03/2023

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MUS - 376 - 5.09

BLUE ROCK TOWNSHIP

MUSKINGUM COUNTY



LOCATION MAP

LATITUDE: 39°48'11" LONGITUDE: -81°53'24"

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

DESIGN DESIGNATION

CURRENT ADT (2023)	410
DESIGN YEAR ADT (2043)	610
DESIGN HOURLY VOLUME (2043)	72
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	3%
DESIGN SPEED	55
LEGAL SPEED	55

DESIGN FUNCTIONAL CLASSIFICATION:
RURAL - MAJOR COLLECTOR
NHS PROJECT ---------- NO

DESIGN EXCEPTIONS

NONE

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:
OHIO DEPARTMENT
OF TRANSPORTATION
DISTRICT 5

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2
TYPICAL SECTIONS	3-4
PLAN NOTES	5-10
MAINTENANCE OF TRAFFIC	11-12
GENERAL SUMMARY	13
PAVEMENT & PAVEMENT MARKING CALCULATIONS	14
PLAN & PROFILE	15
GRADING CROSS SECTIONS	16-25
CULVERT DETAIL SHEET	26
CULVERT INSTALL CROSS SECTIONS	27-28

FEDERAL PROJECT NUMBER

N.A.

RAILROAD INVOLVEMENT

N.A.

PROJECT DESCRIPTION

REMEDIATION OF ROCK CUT SLOPE
THAT IMPROVES SLOPE STABILITY

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.58 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.10 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	0.68 ACRES

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON 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 12.

Jason L. Sturgeon, P.E.
District 05 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	1/21/22						800-2019	SEE PROPOSAL	
BP-5.1	7/15/22						832	7/15/22	
							902	7/19/19	
CB-3A	7/16/21								
DM-1.1	7/17/20								
DM-4.4	1/15/16								
MT-97.10	4/19/19								
MT-101.60	1/17/20								
MT-105.10	1/17/20								
TC-41.20	10/18/13								
TC-65.10	1/17/14								
TC-65.11	7/15/22								

TITLE SHEET

DESIGN AGENCY

DESIGNER GPM
REVIEWER

PROJECT ID 115989

SHEET P.1 | TOTAL 28

MUS-376-5.09

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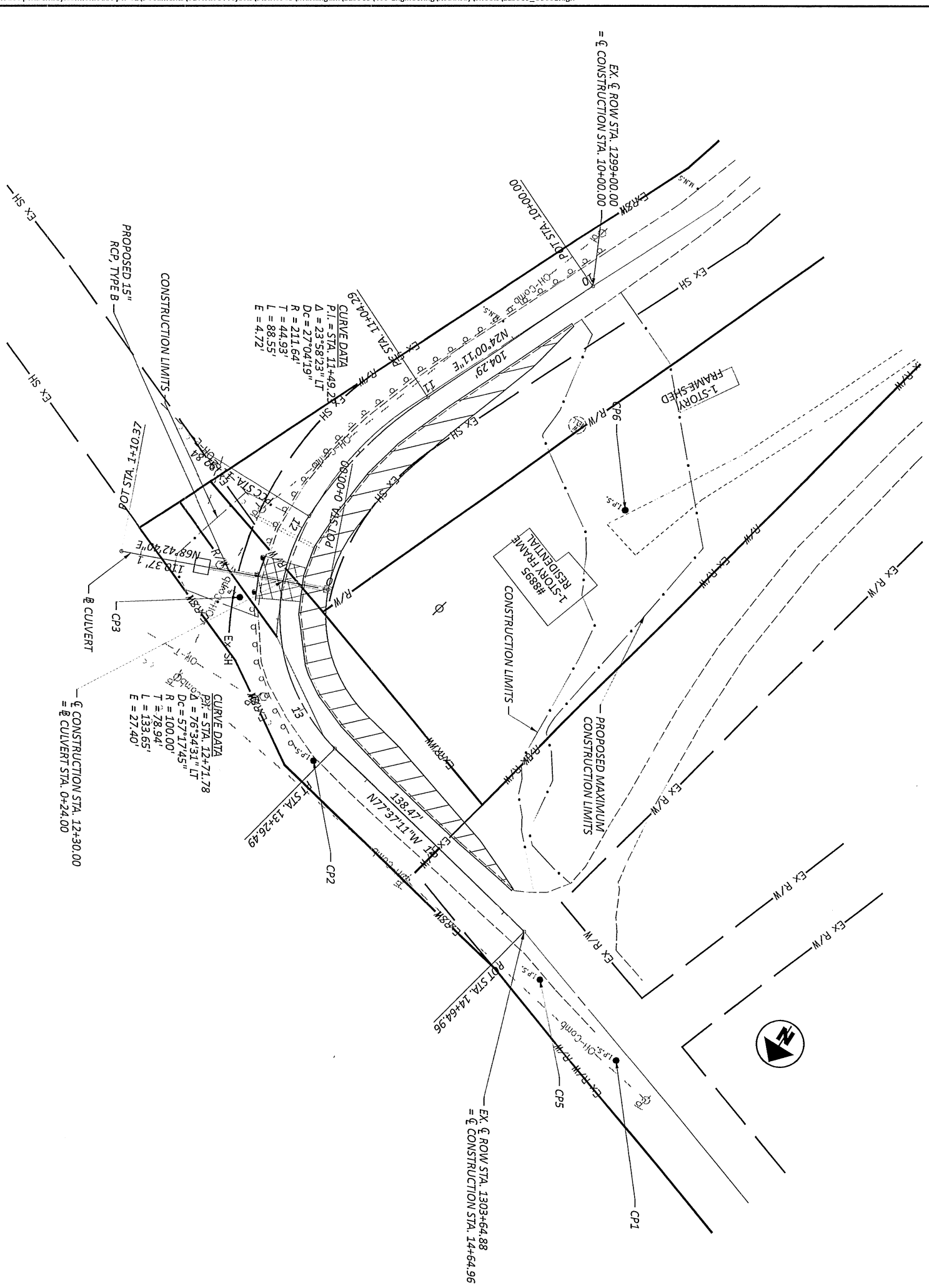


TABLE OF CONTROL POINTS				
POINT ID	NORTHING	EASTING	ELEVATION	CODE
CP1	657384.8401	2139594.5736	679.06	IPINS
CP2	657333.9435	2139812.8115	680.77	IPINS
CP3	657280.8029	2139891.4978	679.09	IPINS
CP5	657369.5708	2139650.7590	678.01	IPINS
CP6	657135.3337	2139745.0906	-	IPINS

SCHEMATIC PLAN
MUS-376-5.09

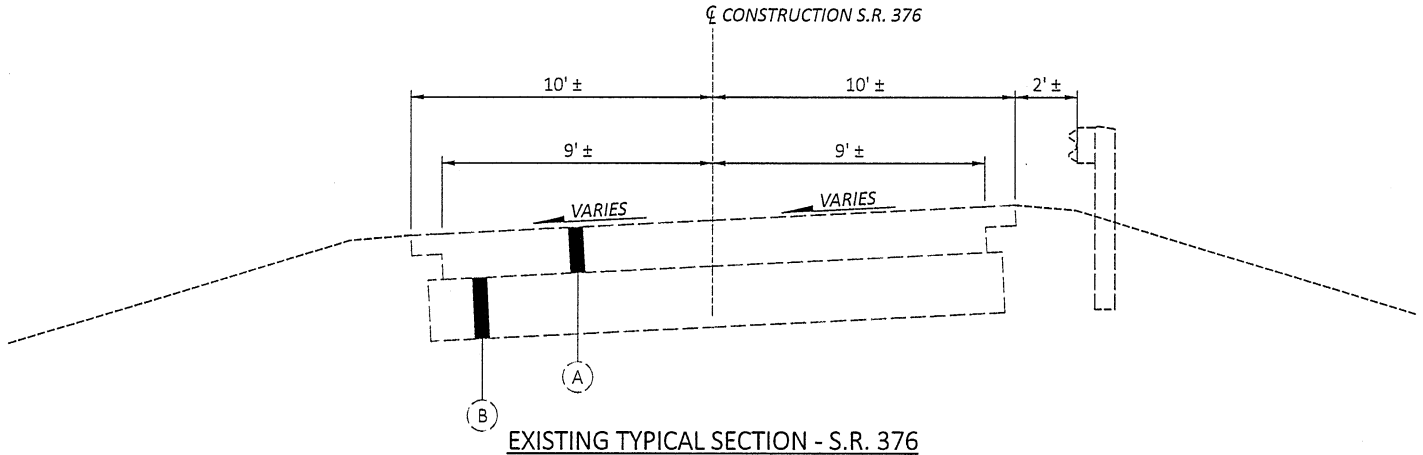
HORIZONTAL SCALE IN FEET
0 30
15 60

DESIGN AGENCY
DESIGNER GPM
REVIEWER
PROJECT ID 115989
SHEET P.2 | TOTAL 28

LEGEND

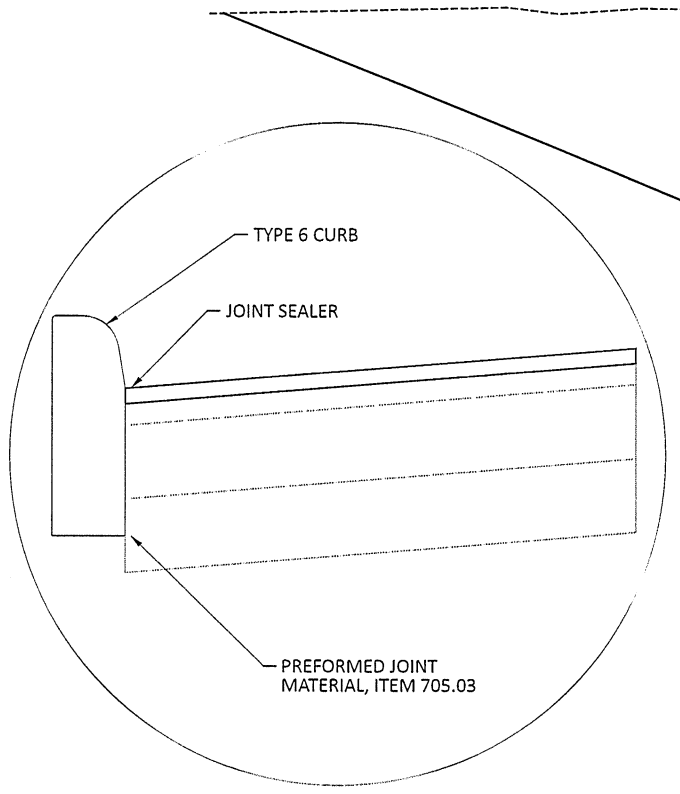
(A) EX. ASPHALT CONCRETE (UNKNOWN DEPTH)

(B) EX. AGGREGATE BASE (UNKNOWN DEPTH)



EXISTING TYPICAL SECTION - S.R. 376

STA. 10+00.00 - 14+64.96



EDGE OF PAVEMENT DETAIL (TYP)

LEGEND

(1) ITEM 202 PAVEMENT REMOVED

(2) ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M (1.25")

(3) ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) (1.75")

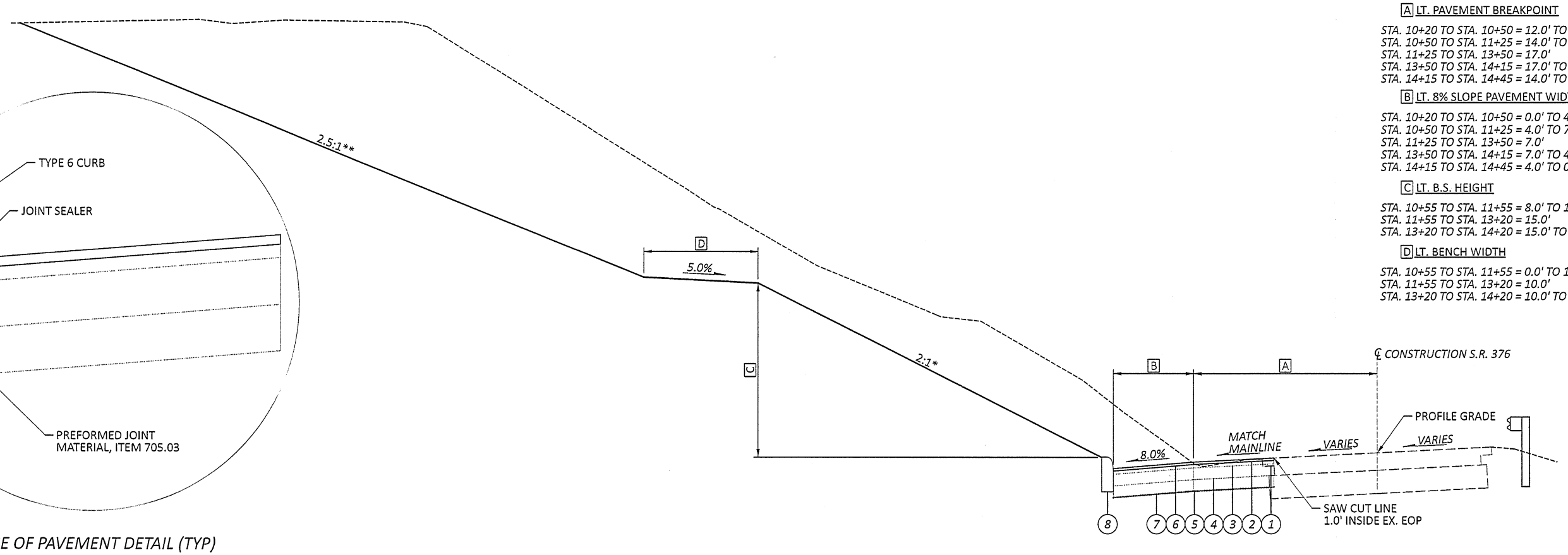
(4) ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449) (6")

(5) ITEM 304 AGGREGATE BASE (6")

(6) ITEM 407 NON-TRACKING TACK COAT

(7) ITEM 204 SUBGRADE COMPACTION

(8) ITEM 609 CURB, TYPE 6



PROPOSED SHOULDER WIDENING & GRADING TYPICAL SECTION - S.R. 376

STA. 10+20.00 - 14+45.00 (SHOULDER WIDENING)

STA. 10+55.00- 14+15.00 (GRADING)

WIDTHS & HEIGHTS

[A] LT. PAVEMENT BREAKPOINT

STA. 10+20 TO STA. 10+50 = 12.0' TO 14.0'
STA. 10+50 TO STA. 11+25 = 14.0' TO 17.0'
STA. 11+25 TO STA. 13+50 = 17.0'
STA. 13+50 TO STA. 14+15 = 17.0' TO 14.0'
STA. 14+15 TO STA. 14+45 = 14.0' TO 12.0'

[B] LT. 8% SLOPE PAVEMENT WIDTH

STA. 10+20 TO STA. 10+50 = 0.0' TO 4.0'
STA. 10+50 TO STA. 11+25 = 4.0' TO 7.0'
STA. 11+25 TO STA. 13+50 = 7.0'
STA. 13+50 TO STA. 14+15 = 7.0' TO 4.0'
STA. 14+15 TO STA. 14+45 = 4.0' TO 0.0'

[C] LT. B.S. HEIGHT

STA. 10+55 TO STA. 11+55 = 8.0' TO 15.0'
STA. 11+55 TO STA. 13+20 = 15.0'
STA. 13+20 TO STA. 14+20 = 15.0' TO 8.0'

[D] LT. BENCH WIDTH

STA. 10+55 TO STA. 11+55 = 0.0' TO 10.0'
STA. 11+55 TO STA. 13+20 = 10.0'
STA. 13+20 TO STA. 14+20 = 10.0' TO 0.0'

SLOPES

*** LT. BACK SLOPE**

STA. 10+55 TO STA. 11+55 = 1.5:1 TO 2:1
STA. 11+55 TO STA. 13+20 = 2:1
STA. 13+20 TO STA. 14+20 = 2:1 TO 1.4:1

*** LT. TIE SLOPE**

STA. 10+55 TO STA. 10+75 = 1.5:1
STA. 10+75 TO STA. 11+05 = 1.5:1 TO 2:1
STA. 11+05 TO STA. 13+70 = 2:1
STA. 13+70 TO STA. 14+20 = 2:1 TO 1.4:1

EXISTING/PROPOSED TYPICAL GRADING SECTION - S.R. 376

DESIGN AGENCY

DESIGNER: GPM

REVIEWER: XXX

PROJECT ID: 115989

SHEET: P.3 | TOTAL: 28

MUS-376-5.09

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EXISTING/PROPOSED CULVERT INSTALLATION TYPICAL SECTION - S.R. 376

DESIGN AGENCY

DESIGNER GPM

REVIEWER

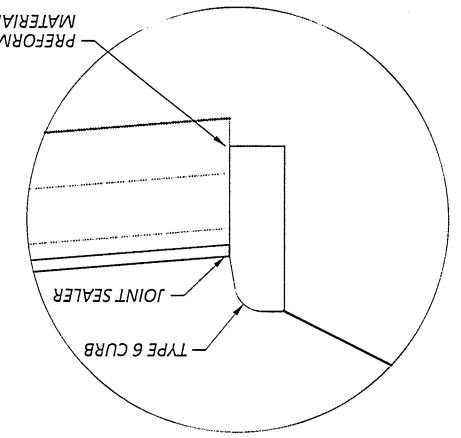
PROJECT ID 115989

SHEET P.4 TOTAL 28

LEGEND

1. ITEM 202 PAVEMENT REMOVED
2. ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M (1.25")
3. ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) (1.75")
4. ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449) (6")
5. ITEM 304 AGGREGATE BASE (6")
6. ITEM 407 NON-TRACKING TACK COAT
7. ITEM 204 SUBGRADE COMPACTION
8. ITEM 617 COMPACTED AGGREGATE, 8"
9. ITEM 606 GUARDRAIL, TYPE 5, USING 9 FOOT POSTS

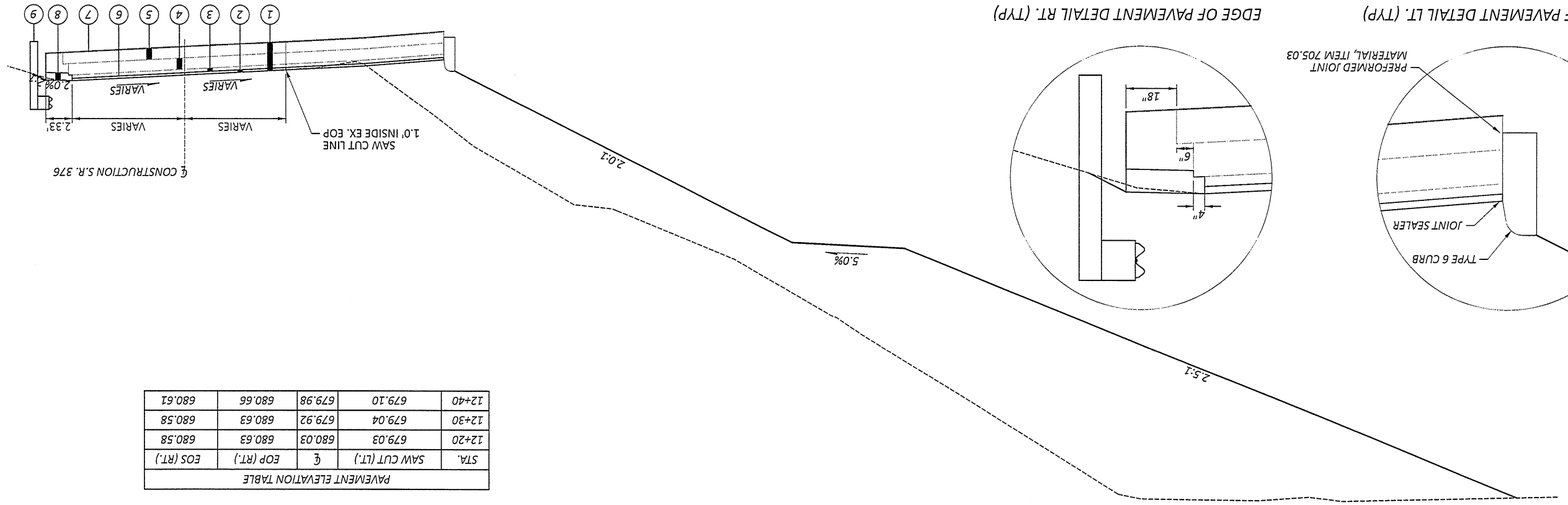
EDGE OF PAVEMENT DETAIL LT. (TYP)



EDGE OF PAVEMENT DETAIL RT. (TYP)

PROPOSED TYPICAL SECTION FOR CULVERT INSTALLATION - S.R. 376

STA. 12+20.00 - 12+40.00



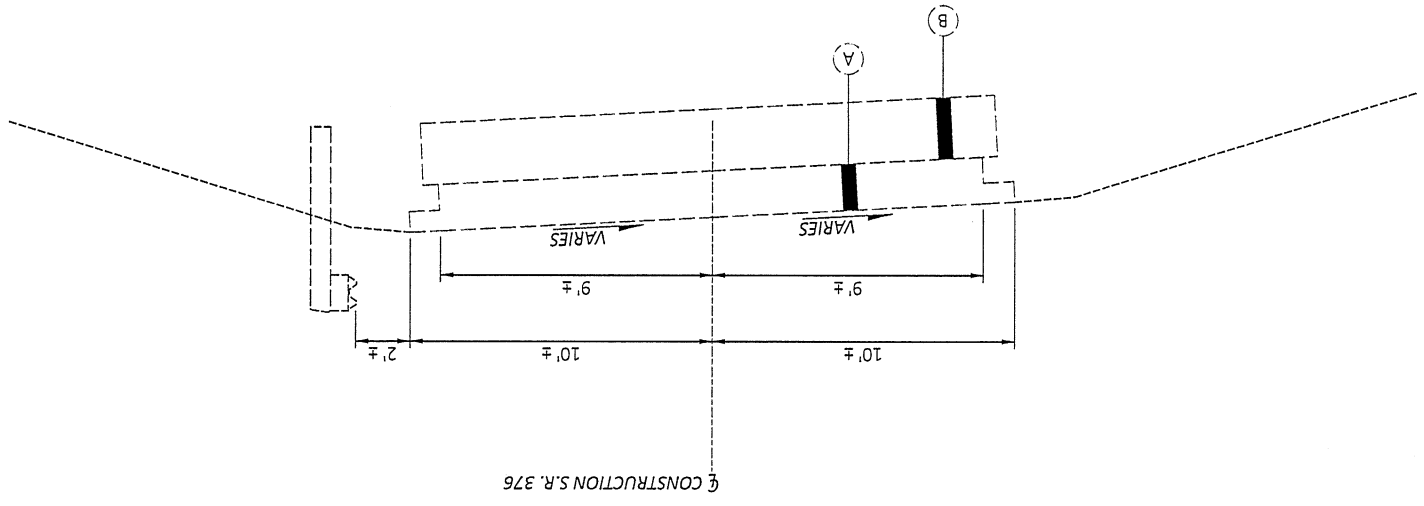
PAVEMENT ELEVATION TABLE				
STA.	SAW CUT (LT.)	℄	EOP (RT.)	EOS (RT.)
12+20	679.03	680.03	680.63	680.58
12+30	679.04	679.92	680.63	680.58
12+40	679.10	679.98	680.66	680.61

LEGEND

(A) EX. ASPHALT CONCRETE (UNKNOWN DEPTH)
(B) EX. AGGREGATE BASE (UNKNOWN DEPTH)

EXISTING TYPICAL SECTION FOR CULVERT INSTALLATION - S.R. 376

STA. 12+20.00 - 12+40.00



ROUNDING

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

UNDERGROUND 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.

UTILITIES

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

AT&T Ohio
160 North Sixth Street
Zanesville, Ohio 43701
Attn: Barret Tamasovich
740-454-3552
BT2178@att.com

Natural Gas and Oil Cooperative
120 O'Neil Drive
Hebron, Ohio 43025
Attn: Will Poling
740-641-8751
wpoling@theenergycoop.com

Guernsey-Muskingum Electric Cooperative, Inc.
17 South Liberty Street
New Concord, Ohio 43762
Attn: Blake West
740-826-7970
bwest@gmenergy.com

Spectrum Cable TV
737 Howard St.
Zanesville, Ohio 43701
Attn: Zack Allen
614-255-2819
Zackary.Allen1@charter.com

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

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING.

EXISTING STRUCTURE VERFICATION

DETAILS AND DIMENSIONS SHOWN ON THE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM THE DESIGN PLANS OF THE EXISITNG PIPE'S ORIGINAL INSTALLATION. CONSEQUENTLY, THEY AREA INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

BORROW AND WASTE AREAS

THE CONTRACTOR SHALL COMPLY WITH CMS SECTION 107.10 FOR ALL BORROW AND WASTE AREAS ASSOCIATED WITH THE PROJECT.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

EARTHWORK

ITEM 203, EXCAVATION (10203 CY)
10201 CY (SHEET 25) + 2 CY (SHEET 28) = 10203 CY

SEEDING AND MULCHING

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

ITEM 659, SEEDING AND MULCHING, CLASS 2 (3210 SY)
3122 SY (SHEET 25) + 88 SY (SHEET 28) = 3210 SY

ITEM 659, COMMERCIAL FERTILIZER (0.4 TON)
1 TON PER 7,410 SY OF PERMANENT SEEDED AREA

ITEM 659, LIME ACRES (0.7 ACRE)
3210 / 4840 = 0.7 ACRE

ITEM 659, WATER (17 M. GAL)
3210 X 0.0054 M. GAL / SY = 17 M. GAL

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 SEEDING AND

ITEM 617, COMPACTED AGGREGATE, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE SHALL BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE INDEX SHALL BE WAIVED. IF SO PERMITTED, THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RACP MEETING REQUIREMENTS OF 716.02) IN LIEU OF LIMESTONE.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 407, NON-TRACKING TACK COAT

THE RATE OF APPLICATION OF THE ITEM 407, NON-TRACKING TACK COAT SHALL BE PER CMS TABLE 407.06-1 AND SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.06 GAL/SY FOR TACK COAT UNDER THE SURFACE COURSE AND 0.06 GAL/SY UNDER THE INTERMEDIATE COURSE. (FOR ESTIMATING PURPOSES ONLY).

ITEM 690, SPECIAL - MISC.: ROADWAY PRESERVATION

PRESERVE THE EXISTING PAVEMENT AND GUARDRAIL. VIDEO DOCUMENT THE ROADWAY AND GUARDRAIL CONDITIONS PRIOR TO STARTING THE EXCAVATION OF SLOPE AND REMOVAL OF WASTE MATERIALS. SUBMIT PROTECTION PLAN FOR THE PROJECT ENGINEER'S FILES.

REPAIR ANY DAMAGE TO THE ROADWAY AND GUARDRAIL DURING CONSTRUCTION AT NO ADDITIONAL COSTS TO THE STATE. UNLESS ITEMIZED SEPARATELY, INCLUDE ALL LABOR, MATERIALS, AND TOOLS NECESSARY FOR PROTECTION OF EXISTING ROADWAY PAVEMENT.

ITEM 690 SPECIAL, ROADWAY PRESERVATION, LUMP

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED PER 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING

CONDUIT.

ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE DEPARTMENT:

THE CONTRACTOR SHALL PROVIDE AS- BUILT DATA FOR THE SPECIFIED COMPLETED CONSTRUCTION ITEMS IN OHIO STATE PLANE COORDINATES (GRID). THE CONSTRUCTION ITEMS SHALL BE LOCATED AS PER THE SURVEY FEATURE CODE LIST FOUND ON THE OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF CADD & MAPPING SERVICES WEBSITE. AFTER ALL INFORMATION HAS BEEN COLLECTED, AN EMAIL CONTAINING A COMMA DELIMITED ASCII FILE AND A SURVEYOR'S CERTIFICATION SHALL BE DELIVERED TO:

Cody.Gierhart@dot.ohio.gov (D5 GIS COORDINATOR) AND
Steven.Miller@dot.ohio.gov (D5 CONSTRUCTION AREA ENGINEER)

ITEM 408, PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER CMS 702) AT A RATE OF 0.40 GAL/SY TO THE COMPLETED AGGREGATE SHOULDER. TO REDUCE AGGREGATE LOSS, THE PRIME COAT SHALL BE APPLIED WITHIN SEVEN (7) DAYS AFTER PLACEMENT OF THE AGGREGATE SHOULER OR LIQUIDATED DAMAGES PER CMS 108.07 WILL BE ASSESSED. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN (CONTINUED)

THE ASCII FILE SHALL INCLUDE A HEADER CONTAINING:

NAME OF SURVEYOR
DATE(S) OF COLLECTION
HORIZONTAL DATUM (I.E. NAD83 (2011), OHIO SPCS NORTH OR SOUTH)
VERTICAL DATUM (I.E. NAVD 88, GEOID12A)
METHOD OF COLLECTION (I.E. OHIO VRS, GPS RTK, TOTAL STATION, ETC.)

THE ASCII FILE SHALL BE IN TABLE FORM AS FOLLOWS:

PT. NO./NORTHING/EASTING/ELEVATION/FEATURE CODE/DESCRIPTION

BELOW IS A LIST OF THE ITEMS THE CONTRACTOR SHALL PROVIDE FOR THIS PROJECT:
-CULVERT INVERT AT INLET AND OUTLET

THE ABOVE ITEMS SHALL BE COLLECTED USING SURVEY GRADE EQUIPMENT MEETING THE REQUIREMENTS OF SECTION 400 IN THE ODOT SURVEY & MAPPING SPECIFICATIONS MANUAL.

ALL COSTS ASSOCIATED WITH OBTAINING THE INFORMATION LISTED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN.

THE FOLLOWING QUANTITY HAS BEEN INLCUDED IN THE GENERAL SUMMARY TO PERFORM THE WORK DESCRIBED ABOVE:

ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN (LS)

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET ___ OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: LOCAL RT NETWORK AND STATIC GPS OBSERVATIONS
MONUMENT TYPE: TYPE B ODOT D5

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS 1980
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO NORTH
COMBINED SCALE FACTOR: 0.99995376
ORIGIN OF COORDINATE SYSTEM: 600,000M, Y=0M

USE THE POSITIONING METHODS 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

UNITS ARE IN U.S. SURVEY FEET.
CMS 623.

GENERAL NOTES

DESIGN AGENCY

DESIGNER GPM

REVIEWER

PROJECT ID 115989

SHEET P.5 TOTAL 28

MUS-376-5.09

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2023 TIME: 7:55:35 AM USER: gmoltsche
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NOTES

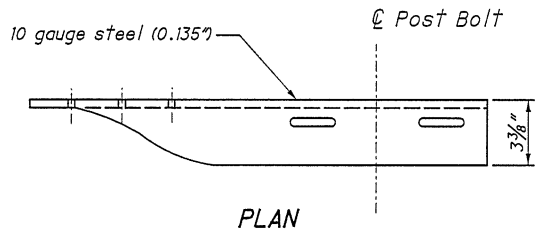
GENERAL: *Components shown on this drawing are used in a variety of guardrail systems. See individual guardrail drawing for specific applications.*

See CMS 606 for guardrail specifications not covered on these drawings.

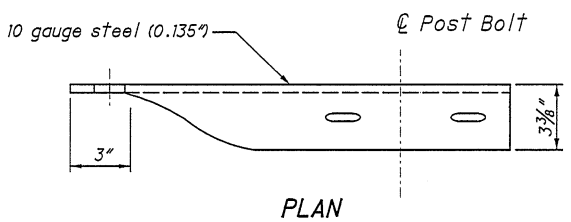
Refer to AASHTO M 180 for dimensional details of W-Beam and Thrie-Beam rail elements, related buffer and end sections, beam splices, post and splice bolts, nuts, and Type 1 W-Beam to Thrie-Beam Transition sections.

RAIL ELEMENTS: *W-Beam Rail has an effective length of 12'-6" unless otherwise specified, with ¾" x 2½" post bolt slots on 6'-3" centers regardless of post spacing. Field punch or drill bolt holes or slots for irregularly spaced posts as specified in CMS 606.04.*

RAIL SPLICES: *Lap splices between two rail elements or between a rail and terminal connector in the direction of traffic. Lap the buffer or flared end sections in the direction of traffic.*



PLAN



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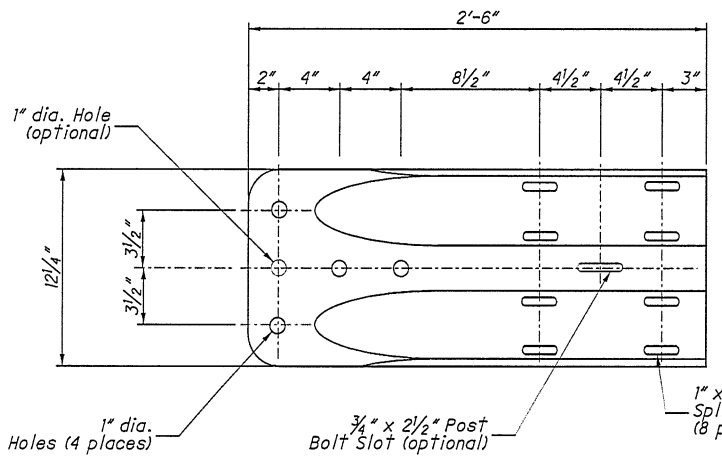
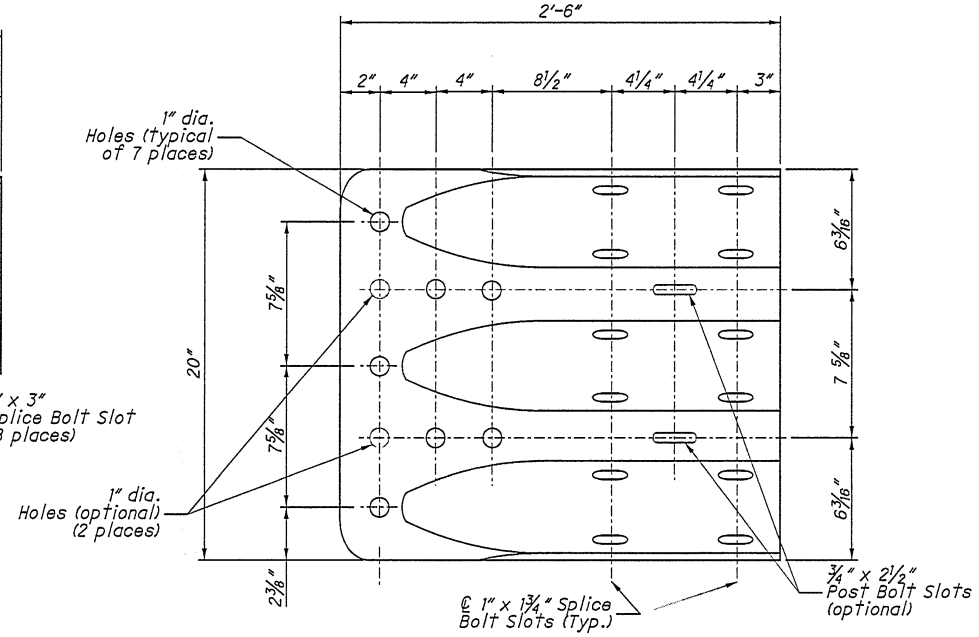


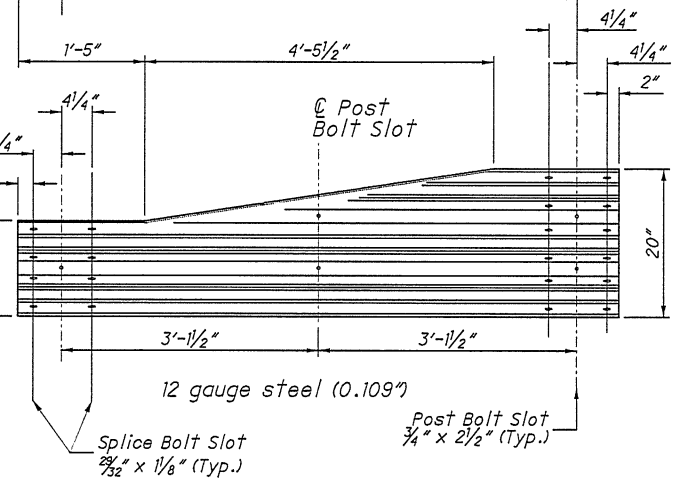
ELEVATION

W-BEAM TERMINAL CONNECTOR



ELEVATION

THRIE-BEAM TERMINAL CONNECTOR

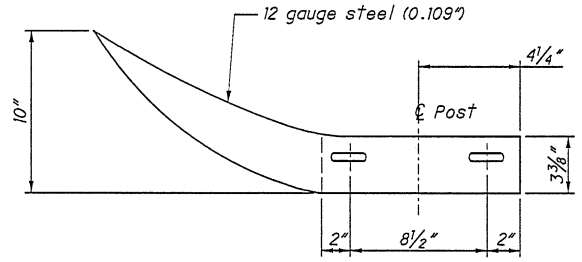


ELEVATION

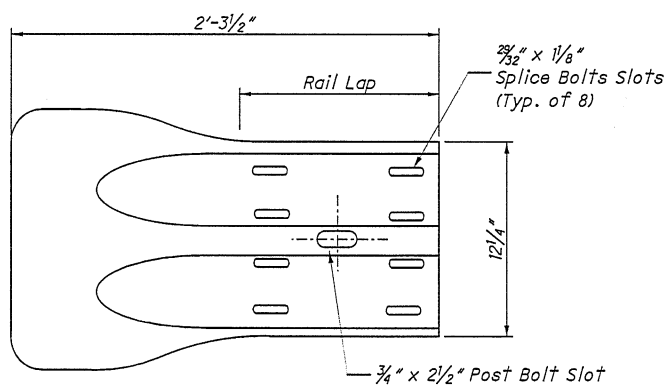
TYPE 2 TRANSITION SECTION

(Asymmetric W to Thrie-Beam)

For details of Type 1 Transition Section (Symmetric), refer to AASHTO M 180, Figure 4.

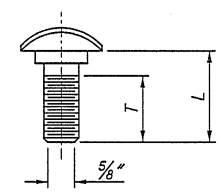


PLAN



ELEVATION

W-BEAM FLARED END SECTION



GUARDRAIL BOLT (For Post and Splice Bolts)		
L	**T min.**	**Bolt Use**
18" (Standard Rail)	4"	Type 5: WP/WB, PB
26" (Barrier Rail)		
10"	4"	Type 5: SP/WB, PB
1¼	1⅛	Splice Bolt

WP = Wood Post WB = Wood Blockout
SP = Steel Post PB = Plastic Blockout

Longer Bolt may be needed for round Wood Post larger than 8" dia.

REVISION DATE 1/ 18/ 2013 | DESIGNED XXX | OFFICE OF ROADWAY ENGINEERING
CHECKED CHECKED | REVIEWED XXX

PLAN INSERT SHEET
GUARDRAIL DETAILS (Rail Components)

PIS GR-1.1

1 / 3
0 / 0

TYPE 5 GUARDRAIL DETAILS (1 OF 3) - PLAN INSERT SHEET

DESIGN AGENCY

DESIGNER GPM

REVIEWER

PROJECT ID 115989

SHEET P.6 TOTAL 28

MUS-376-5.09

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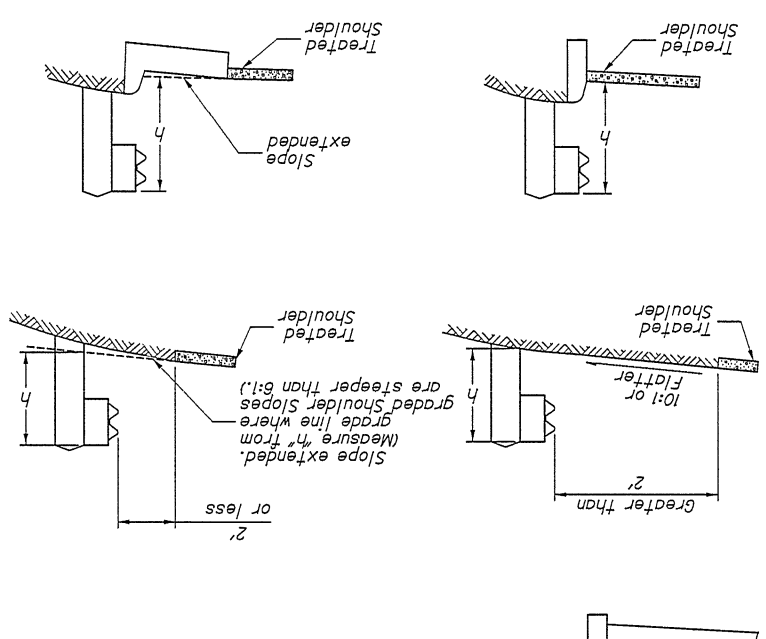
MEASURING GUARDRAIL HEIGHT

h = Standard Height (See GUARDRAIL HEIGHT Note)



NOTES

GUARDRAIL HEIGHT: *For initial installation, construct the guardrail within ± 1" of the standard height, h, or **29"** to the top of W-beam rail. (See MEASURING GUARDRAIL HEIGHT Detail.)*

When subsequent projects, such as resurfacing, affect the height of existing guardrail, the finished height is to be within ±2.5" of the standard height.

POST EMBEDMENT DEPTH: *Standard embedment is 3'-5" min. Where less than 2' of graded shoulder (10:1 or flatter) exists, measured from the face of the guardrail (see DETAIL "A"), use longer posts so that a minimum of 5'-5" embedment depth is provided. Payment for the longer posts will be made at the unit price bid for **ITEM 606 - GUARDRAIL POST, 9', EACH.***

SPECIAL POST MOUNTINGS: *Install posts located over a drainage inlet or structure as shown in the FOOTING ANCHOR Detail, or anchor per the details shown on **SCD GR-2.2.***

*Install posts located over a footing with a cover of less than 2'-6" with a footing anchor as detailed here. (A plate, as detailed on **SCD GR-2.2**, may be used as an alternative attachment method.) Where the cover is between 2'-6" and 3'-5", the footing anchor may be omitted and the post encased instead with 4" (min.) of concrete.*

Do not drive posts located over a culvert with less than 4'-3" of cover; instead set in drilled or dug holes. Where the available post embedment depth is less than 3'-5", encase the post with a minimum of 4" concrete.

All costs associated with special post mountings are included in the unit price bid of Item 606 Guardrail of the Type specified in the plans.

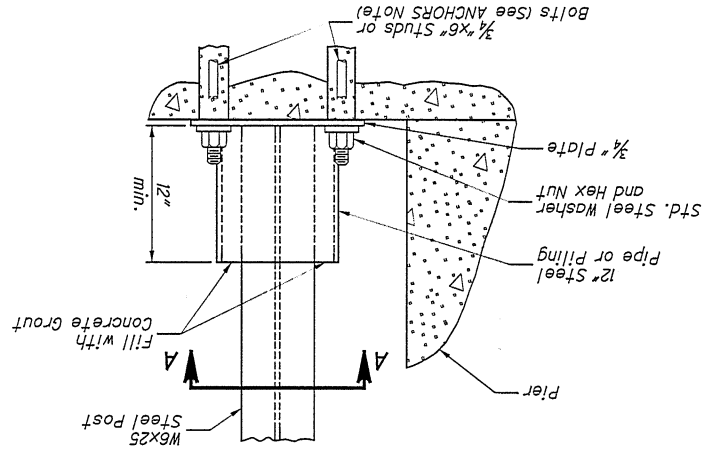
ANCHORS: *Holes and grouting shall comply with CMS 510. Use either cement or non-shrink, nonmetallic grout.*

Expansion shield anchors as specified in CMS 712.01 may be substituted except where concrete deterioration has occurred, as determined by the Engineer. Where self-drilling anchors are used, drill the holes with the expansion shield (not by a drill bit) and install the shield flush with the concrete surface.

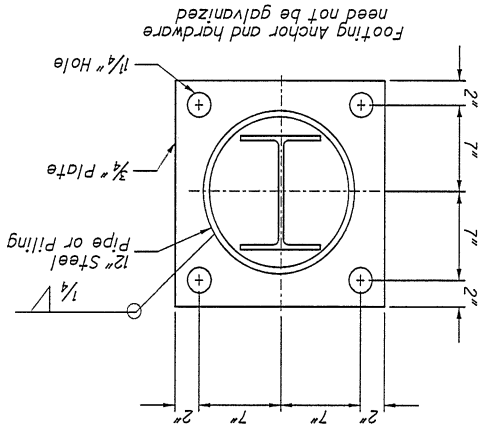
PROTECTIVE COATING: *In lieu of the complying with CMS 710.06, coat expansion shields, anchors and concrete insert anchor assemblies embedded in concrete in accordance with ASTM A 153 or be of stainless steel. Any bolts screwed into these devices shall meet CMS 710.06. (See sheet 3 for Concrete Insert Anchor Assembly Detail.)*

ELEVATION
FOOTING ANCHOR

See SPECIAL POST MOUNTINGS Note.

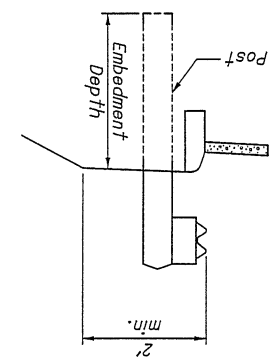


SECTION A-A

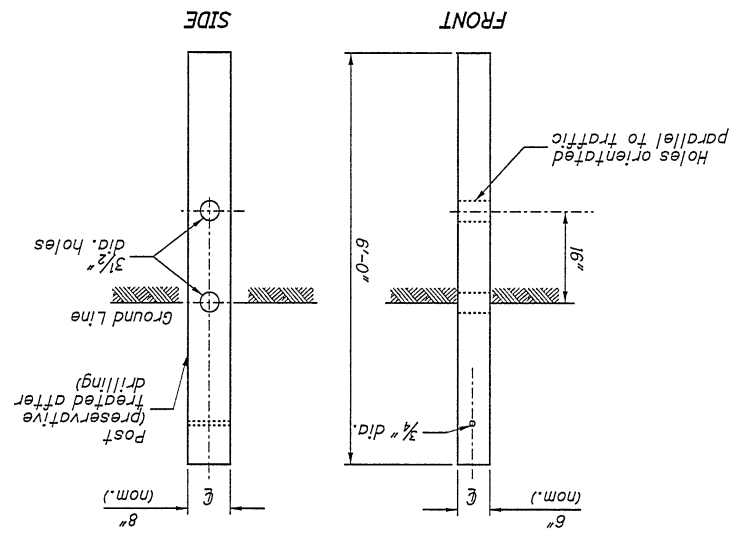


DETAIL A

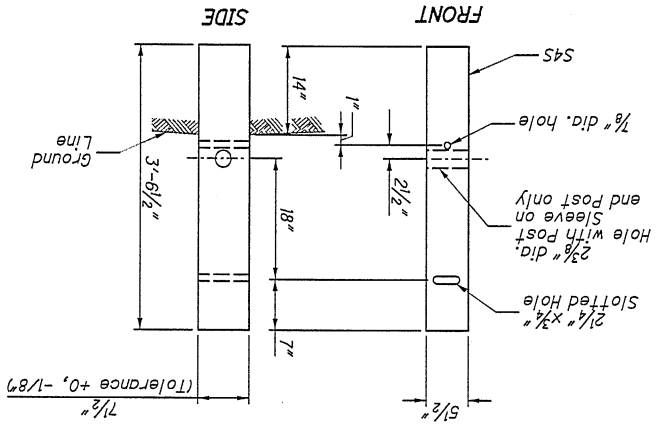
See POST EMBEDMENT DEPTH Note



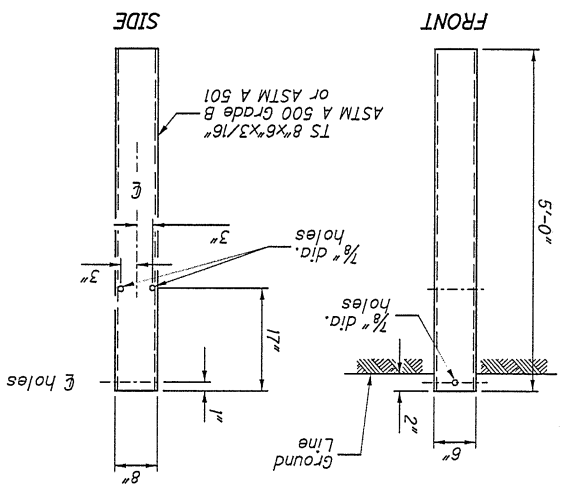
TYPE 1 BREAKAWAY CRT POST



TYPE 2 BREAKAWAY CRT POST



STEEL GROUND TUBE



TYPE 5 GUARDRAIL DETAILS (2 OF 3) - PLAN INSERT SHEETS

PLAN INSERT SHEET

GUARDRAIL DETAILS
(Rail Components)

PIS GR-1.1

DESIGNED	REVISION DATE
XXX	1/18/2013
RETIEWED	CHECKED
XXX	CHECKED

OFFICE OF ROADWAY ENGINEERING

DESIGN AGENCY

DESIGNER GPM

REVIEWER

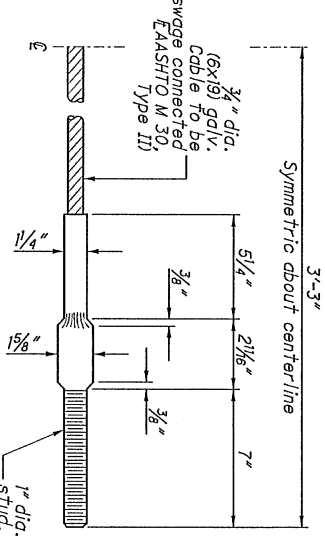
PROJECT ID 115989

SHEET P.7 TOTAL 28

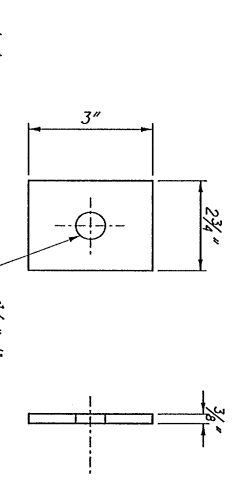
2 / 3

0 0

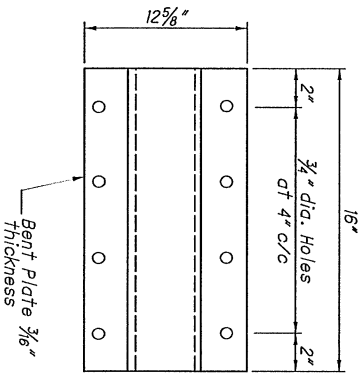
STANDARD SWAGED FITTING AND STUD CABLE ANCHOR

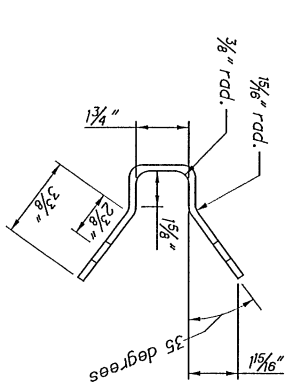


END PLATE

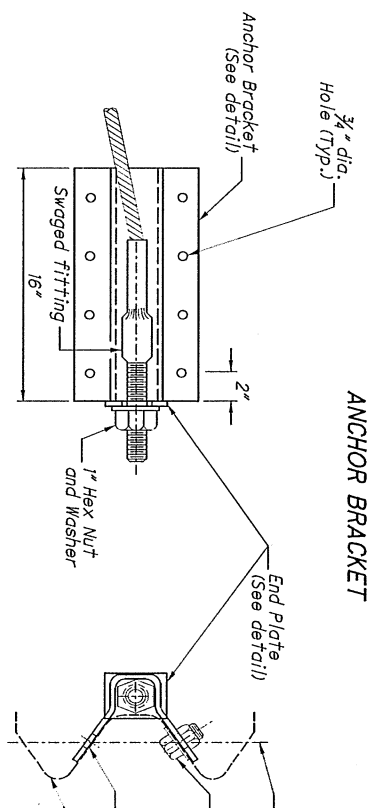


ANCHOR BRACKET

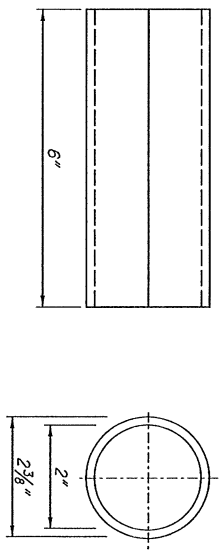




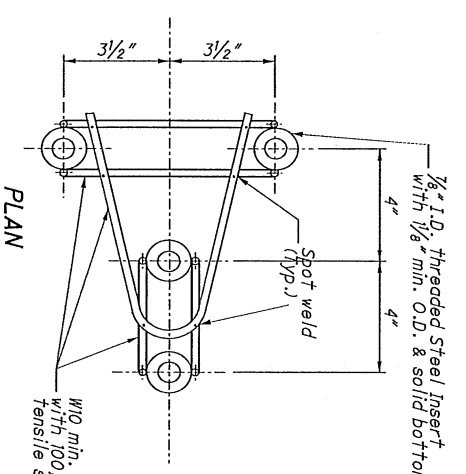
ANCHOR BRACKET ASSEMBLY DETAILS



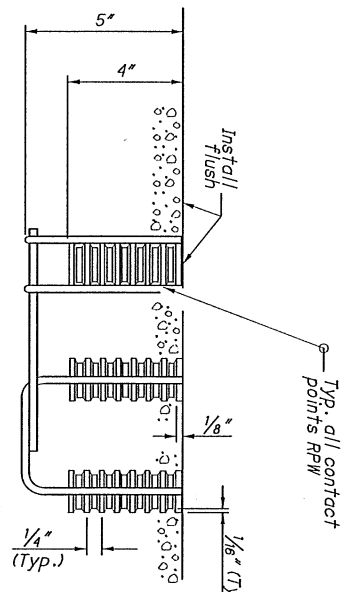
POST SLEEVE



PLAN



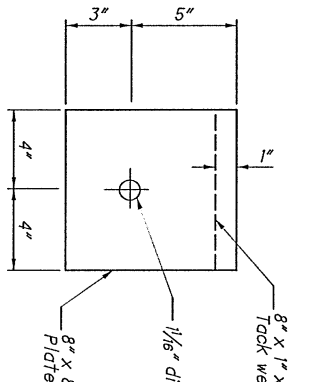
ELEVATION



CONCRETE INSERT ANCHOR ASSEMBLY (W-BEAM ONLY)

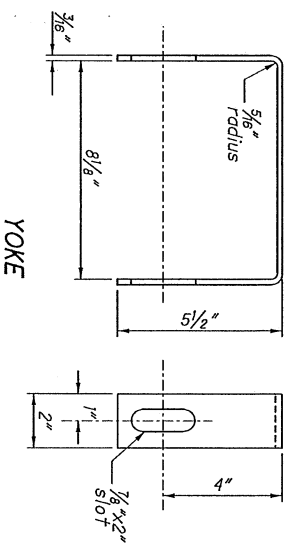
See ANCHORS and PROTECTIVE COATINGS Notes on Sheet 2

BEARING PLATE

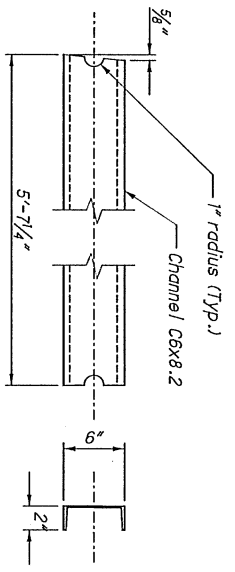


YOKE

Two required in Assembly

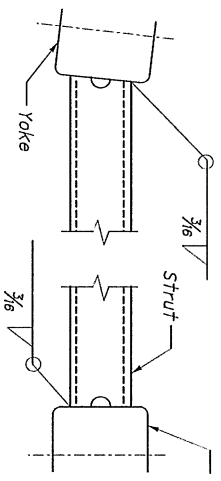


STRUT

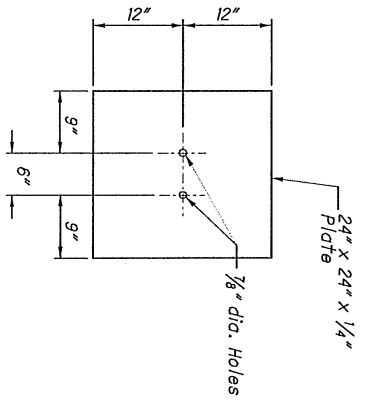


STRUT AND YOKE ASSEMBLY

Channel legs shown down. For opposite hand, install channel legs up.



SOIL PLATE



PLAN INSERT SHEET

GUARDRAIL DETAILS (Rail Components)

PIS GR-1.1

3 / 3

REVISION DATE	DESIGNED	OFFICE OF ROADWAY ENGINEERING
1/18/2013	XXX	
CHECKED	REVIEWED	
CHECKED	XXX	

DESIGN AGENCY

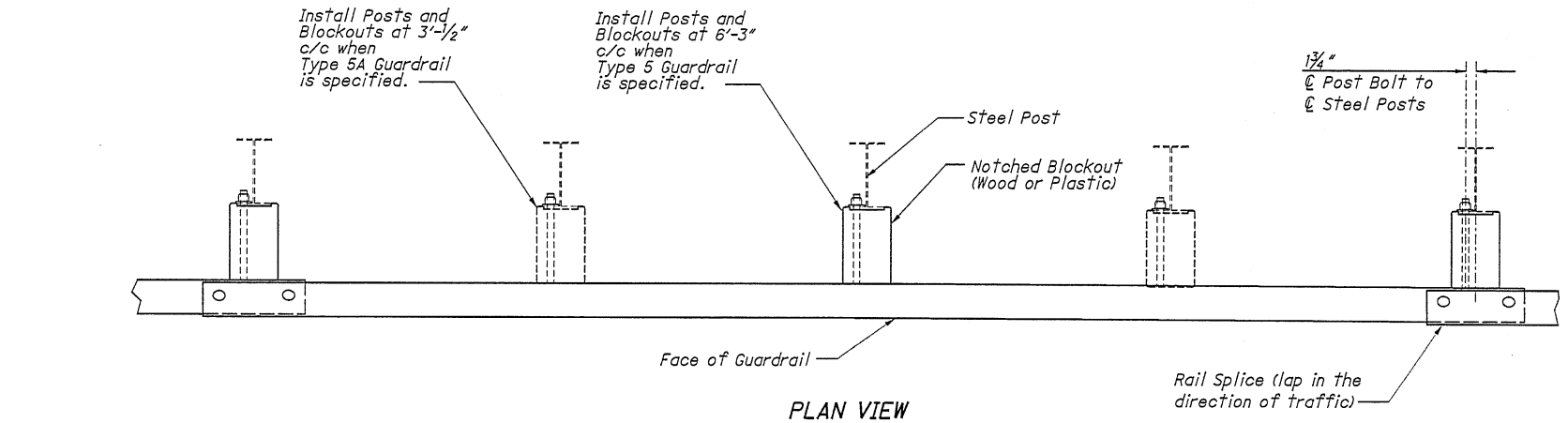
DESIGNER GPM

REVIEWER

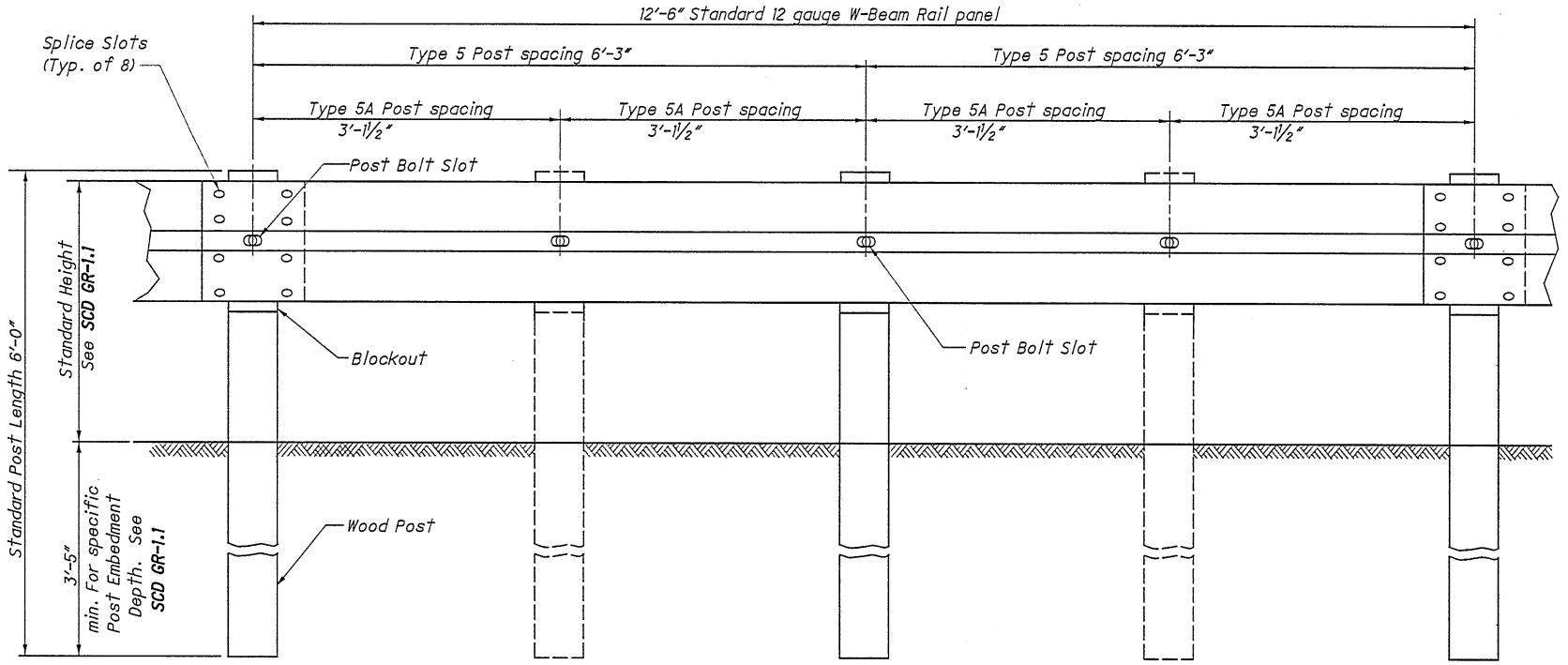
PROJECT ID 115988

SHEET P.8 | TOTAL 28

TYPE 5 GUARDRAIL DETAILS (3 OF 3) - PLAN INSERT SHEET



PLAN VIEW
(Steel Posts shown)



ELEVATION
(Wood Posts shown)

NOTES

RAIL: *Use W-Beam rail meeting AASHTO M 180 Type II Class A, as specified in CMS 606.*

POSTS: *Posts may be constructed of wood or steel. Wood posts may be round or 6"x8" square-sawed.*

Use round wood posts on runs of single-sided rail. The round posts shall be 8"±1 in diameter at the top and not more than 3" larger at the butt with a uniform taper.

Fabricated wood posts with square ends. Posts shall be pressure-treated as per CMS 710.14. Bore bolt holes and, if required, trim the tops of posts after the posts are set.

Steel posts are to be W6x9 or W6x8.5 galvanized steel. Use the same type of post throughout the length of the project unless otherwise specified in the plans or permitted by the Engineer.

All posts are 6'-0" long unless specified otherwise in the Contract Document. Posts may be set in drilled holes or may be driven to grade.

WELDED BEAM POSTS: *Welded beam guardrail posts may be used for Item 606, Guardrail, provided the web and flange sizes are as shown here. Welding of the web to the flanges must comply with ASTM A 769, Class 1, using Grade 36 steel [250 MPa yield point] with the following exceptions:*

- *Sec. 7.2 Test reports of tensile properties for each lot shall accompany each shipment.*
- *Sec. 12 Beams that have imperfections repaired by welding shall not be accepted for use in Item 606.*
- *Sec. 13 Random samples shall be tested by the Department from materials delivered to the project site, or other locations designated by the Laboratory.*

ALTERNATE POSTS: Engineered guardrail posts having met NCHRP 350 criteria, and listed on the ***Office of Materials Management's*** *Approved List are permitted as an equal alternate when installed according to the Manufacturer's instructions and within the limitations shown on the Approved List.*

BLOCKOUTS: *Blockout dimensions are dependent on post used. Wood Blockouts are to be pressure treated as specified in CMS 710.14. Bore bolt holes. Approved alternate blockouts may be used in lieu of the wood blockouts shown. The approved list is maintained by the* ***Office of Roadway Engineering.***

WASHERS: *Install appropriate sized standard galvanized steel washers on the nut side of bolts installed on wood posts.*

DELINEATION: *For barrier reflectors, see CMS 626.*

MISCELLANEOUS: *For other guardrail details, see* ***SCD GR-1.1.***

STEEL BEAM POSTS (English)				
Size	**Beam depth**	**Flange width**	**Flange thickness**	**Web thickness**
Rolled W6x8.5	5.8"	3.94"	0.193"	0.170"
Rolled W6x9	5.9"	3.94"	0.215"	0.170"
Welded 6x8.5	6.0"	3.94"	0.193"	0.170"
Welded 6x9	6.0"	3.94"	0.215"	0.170"

OFFICE OF ROADWAY ENGINEERING

DESIGNED XXX | DETAILED XXX | CHECKED XXX | REVISION DATE 1/18/2013

PLAN INSERT SHEET
GUARDRAIL TYPE 5 & 5A

PIS GR-2.1

1 / 2

0 / 0

TYPE 5 GUARDRAIL - (1 OF 2)

DESIGN AGENCY

DESIGNER GPM

REVIEWER

PROJECT ID 115989

SHEET P.9 | TOTAL 28

MUS-376-5.09

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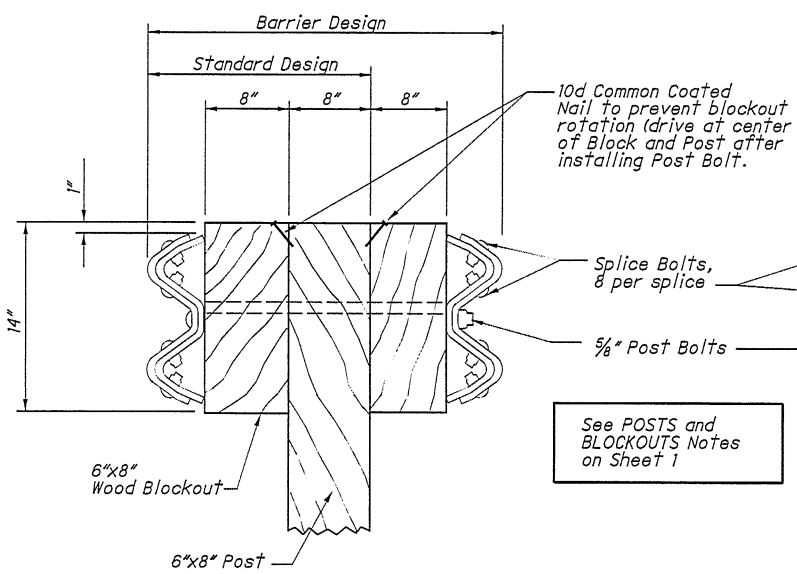
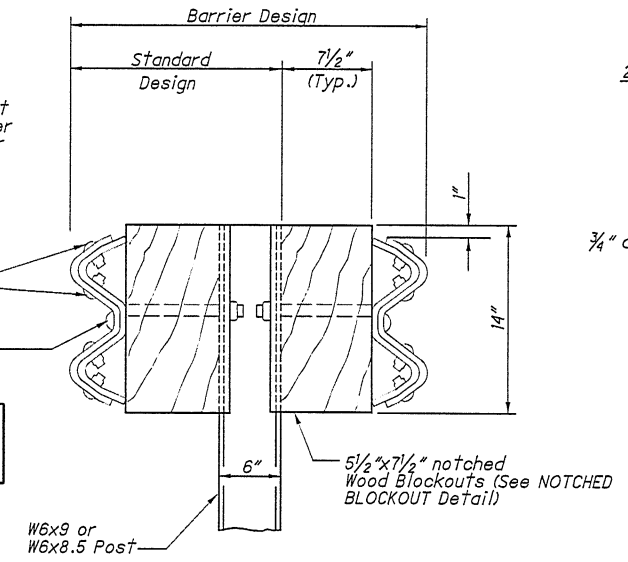
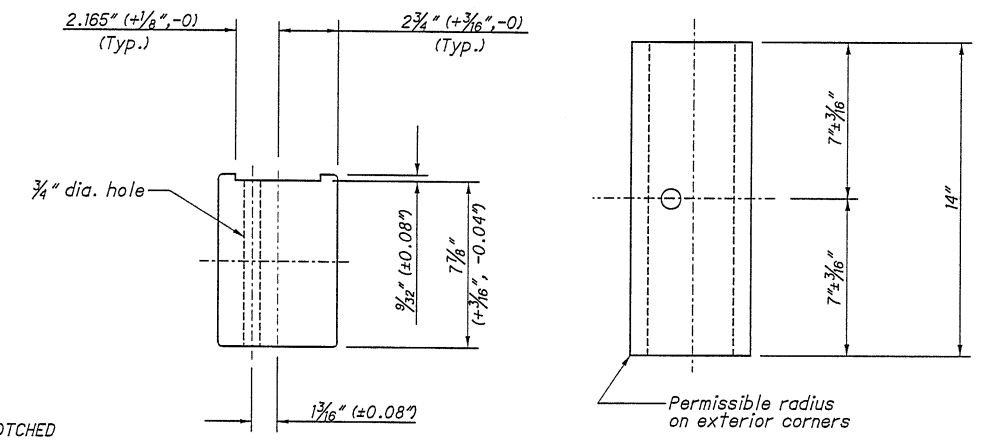


SQUARE WOOD POST

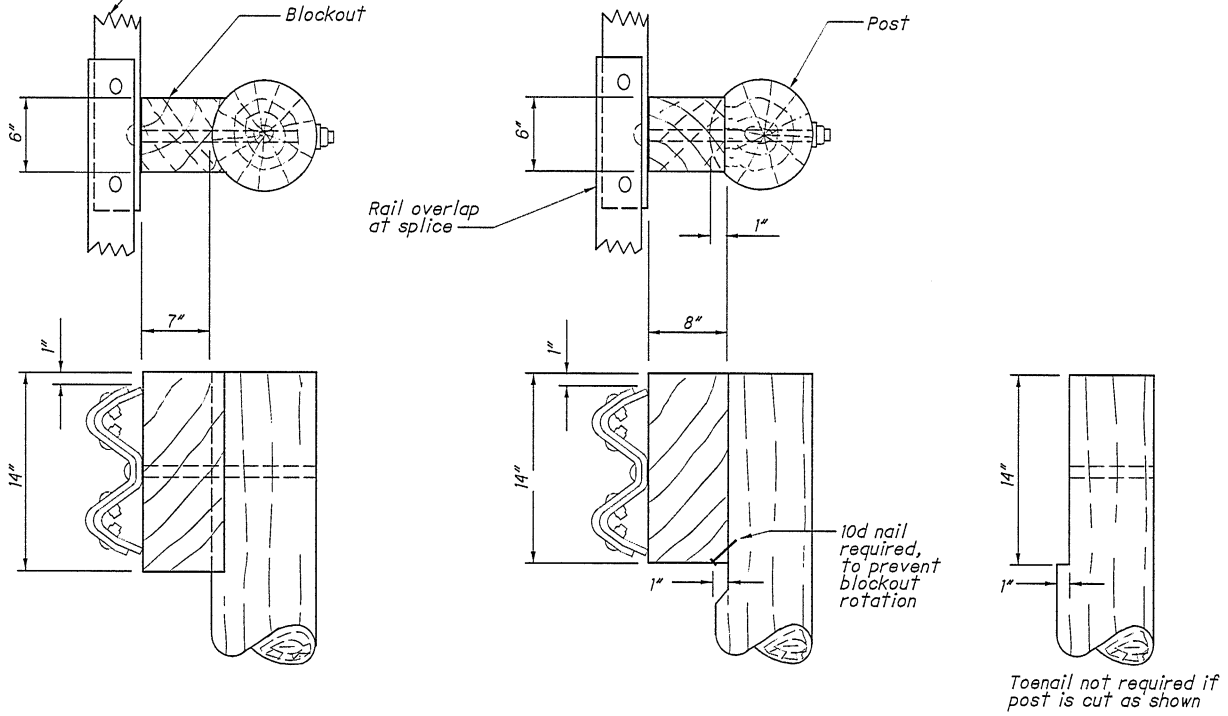


STEEL POST
See POSTS Note, Sheet 1

See POSTS and BLOCKOUTS Notes on Sheet 1



NOTCHED BLOCKOUTS FOR STEEL POSTS
See BLOCKOUTS Note on Sheet 1

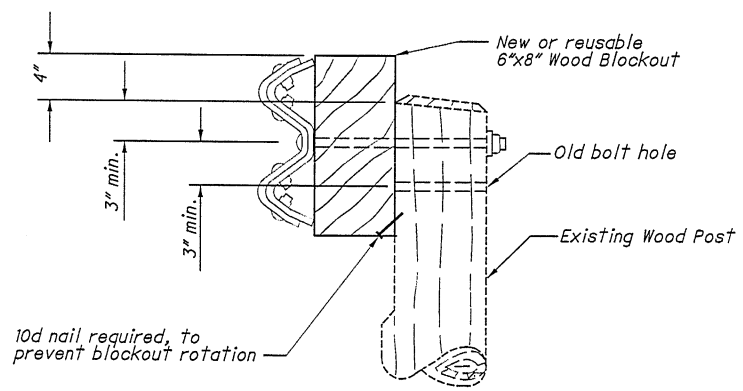


Method 1
Routed Blockout

Method 2
Notched Post

Alternate methods of placing the Blockouts on round Posts may be submitted for consideration and approved by the Engineer.

ROUND WOOD POSTS
Single Sided runs only (Standard Design)



WOOD POSTS WITH WOOD BLOCK
RAISING EXISTING GUARDRAIL HEIGHT

TYPE 5 GUARDRAIL - (2 OF 2)

PLAN INSERT SHEET
GUARDRAIL TYPE 5 & 5A

PIS GR-2.1

2 / 2

0 / 0

OFFICE OF ROADWAY ENGINEERING

REVISION DATE	DESIGNED
1/18/2013	XXX
CHECKED	REVIEWED
CHECKED	XXX

DESIGN AGENCY

DESIGNER GPM

REVIEWER

PROJECT ID 115989

SHEET P.10 TOTAL 28

MUS-376-5.09

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CONSTRUCTION NOTIFICATION

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND/OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER (PIO)
BY FAX: (614) 887-4510 OR
BY EMAIL: D05.PIO@DOT.OHIO.GOV

DISTRICT PERMIT SECTION
BY FAX: (614) 887-4525 OR
BY EMAIL: BRIAN.BOSCH@DOT.OHIO.GOV

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION
BY FAX: (614) 728-4099 OR
BY EMAIL: HAULING.PERMIT@DOT.OHIO.GOV

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS VIA MEDIA SOURCES.

ITEM 614, MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED AS PER THE DETAIL SHEETS AND SPECIFICATIONS AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE OPERATIONS SECTIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS LATEST REVISION. IN ADDITION, THE FOLLOWING REQUIREMENTS SHALL APPLY.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF A PERSON OR PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IMMEDIATELY, AS PER 614.03.

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES REQURED BY THESE PLANS SHALL BE PROVIDED WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

THIS PROJECT WILL BE CONSIDERED OPEN TO TRAFFIC ONCE ALL EXCAVATION, AGGREGATE SHOULDER, GRADED DITCH, INSTALLATION OF PROPOSED CULVERT, AND PAVEMENT TO INTERMEDIATE COURSE HAS BEEN COMPLETED.

THE PLANS INDICATE THE MINIMUM SIGNAGE WHICH MUST BE INSTALLED AND/OR MAINTAINED DURING CONSTRUCTION.

EXISTING SIGNS OR CONTRACTOR SUPPLIED SIGNS SHALL BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION.

THE ENGINEER SHALL RECORD INSTALLATION AND REMOVAL OF PROPOSED SIGNS, COVERED OR REMOVED, AND UNCOVERED OR REERECTED SIGNS IN THE PROJECT DIARY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 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 DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 614, MAINTAINING TRAFFIC (LS)

NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

Item	*Duration of Closure*	*Sign Displayed to Public*
Ramp & Road Closures	*>= 2 weeks*	*14 calendar days prior to closure*
	> 12 hours & < 2 weeks	*7 calendar days prior to closure*
	< 12 hours	*2 business days prior to closure*
Lane Closures & Restrictions	*>= 2 weeks*	*14 calendar days prior to closure*
	< 2 weeks	*5 business days prior to closure*
Start of Construction & Traffic Pattern Changes	*N/A*	*14 calendar days prior to implementation*

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

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20- H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT- HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

Item	*Duration of Closure*	*Sign Displayed to Public*
Ramp & Road Closures	*>= 2 weeks*	*14 calendar days prior to closure*
	> 12 hours & < 2 weeks	*7 calendar days prior to closure*
	< 12 hours	*2 business days prior to closure*

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM- DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ITEM 614, MAINTAINING TRAFFIC (SIGNS AND BARRICADES)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES.

ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)

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

DUST CONTROL

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

ITEM 616, WATER (1 MGAL)

CRITICAL WORK

IF THE CRITICAL WORK IS NOT COMPLETED WITHIN THE CALENDAR DAYS DESIGNATED THE CONTRACTOR WILL BE SUBJECT TO A DISINCENTIVE OF $1000.00 PER DAY. ALL OTHER WORK IS TO BE COMPLETED BY THE PROPOSAL COMPLETION DATE.

CRITICAL WORK TABLE: MUS-146-29.42

DESCRIPTION OF CRITICAL WORK	*CALENDAR DAYS TO COMPLETE*	*DIS-INCENTIVE ($ PER DAY)*
EXCAVATION, INSTALLATION OF CULVERT, & PAVEMENT TO INTERMEDIATE COURSE	*SIXTY (60) CALENDAR DAYS*	*$1000 PER DAY*

THE FINAL COMPLETION DATE FOR THE PROJECT WILL BE AS LISTED IN THE PROPOSAL.

THE FINAL SURFACE COURSE AND THE STRIPING CAN BE PERFORMED AS A FLAGGING OPERATION.

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL DETOUR ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE". THIS DETOUR ROUTE IS SHOWN ON SHEET 6. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RIDGES, BUMPS, DUST, AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

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

ITEM 441, ASPHALT CONCRETE, MISC.: SPOT TREAMENT (20 CY)

ITEM 407, NON-TRACKING TACK COAT (24 GAL)

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER- MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON- SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS, PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE- PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE- PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON- BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE- LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24- HOUR- PER- DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN (8 SNMT)

(ASSUMING 4 SIGNS FOR 2 MONTHS.)

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER GPM

REVIEWER

PROJECT ID 115989

SHEET P.11 TOTAL 28

MUS-376-5.09

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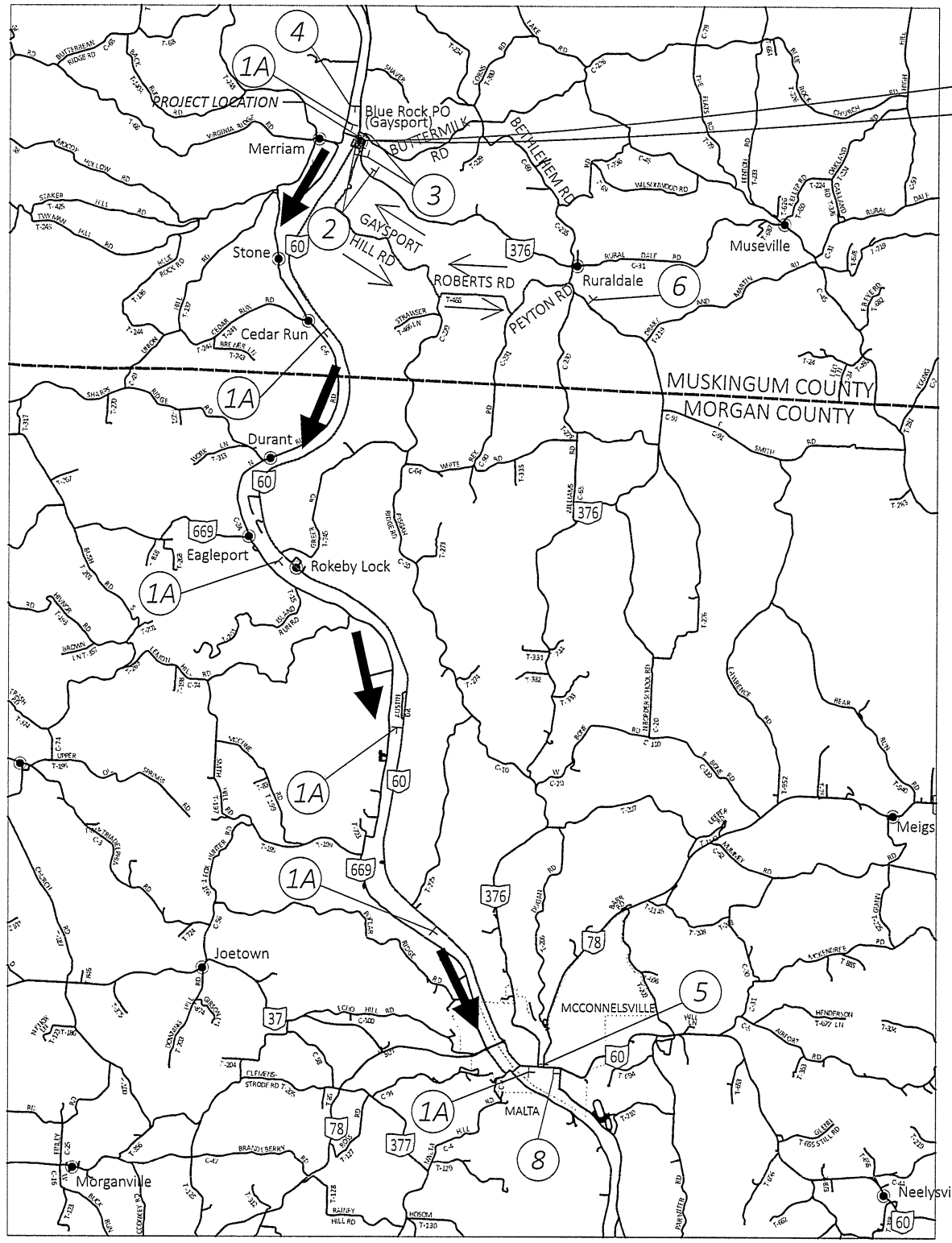

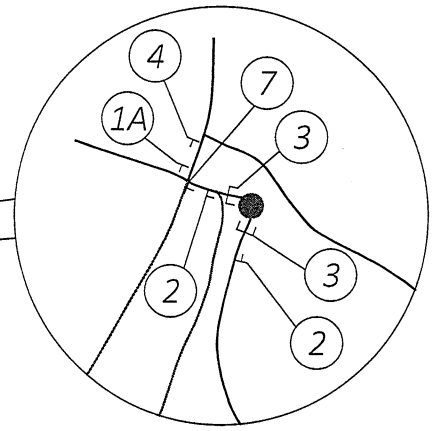

1

DETOUR

M4-8-24

376

M1-5-24-3

M6-3-21

W20-2-36

2

ROAD WILL BE CLOSED MMM/DD FOR XX DAYS
INFO: XXX-XXX-XXXX

W20-H13-60

3

ROAD CLOSED

R11-2-48
(ON TYPE III BARRICADES)

4

DETOUR AHEAD

5

376

M1-5-24-3

ROAD CLOSED
14.6 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60
(ON TYPE III BARRICADE)

6

376

M1-5-24-3

ROAD CLOSED
3.6 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60
(ON TYPE III BARRICADE)

7

376

M1-5-24-3

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60
(ON TYPE III BARRICADE)

DETOUR

M4-10R-48

8

END DETOUR

M4-8A-24

A

SOUTH

M3-2-24

MOT DETOUR MAP

STATE DETOUR ROUTE
NB S.R. 376: NO DETOUR (LOCAL TRAFFIC ONLY)
SB S.R. 376: S.R. 60

LOCAL DETOUR ROUTE
EB: GAYSPORT HILL RD TO ROBERTS RD TO PEYTON RD
WB: PEYTON RD TO GAYSPORT HILL RD TO ROBERTS RD

1/4 1 2
1/2
SCALES IN MILES

LEGEND
LOCAL DETOUR ROUTE
STATE DETOUR ROUTE
PROJECT LOCATION

N

FOR MAINTENANCE OF TRAFFIC NOTES, SEE SHEET 11

DESIGN AGENCY

DESIGNER GPM
REVIEWER

PROJECT ID 115989

SHEET P.12 TOTAL 28

MUS-376-5.09

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/6/2023 TIME: 7:56:43 AM USER: gmotsche
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Muskingum\115989\400-Engineering\MOT\Sheets\115989_MD001.dgn

SHEET NUM.				PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	11	14	26	01/NFA/21						
									ROADWAY	
LS				LS	201	11000	LS		CLEARING AND GRUBBING	
		92		92	202	23000	92	SY	PAVEMENT REMOVED	
		25		25	202	38000	25	FT	GUARDRAIL REMOVED	14
		LS		LS	202	56000	LS		BUILDING DEMOLISHED - ONE STORY HOUSE & SHED	14
		1		1	SPECIAL	20266000	1	EACH	DRILLED WATER WELL ABANDONED	14
										14
			38	38	SPECIAL	20270000	38	FT	FILL AND PLUG EXISTING CONDUIT - 12"	
10,203				10,203	203	10000	10,203	CY	EXCAVATION	26
		558		558	204	10000	558	SY	SUBGRADE COMPACTION	5
		25		25	606	13030	25	FT	GUARDRAIL, TYPE 5, USING 9 FOOT POSTS	14
		1		1	617	10101	1	CY	COMPACTED AGGREGATE, AS PER PLAN	14
										14
									EROSION CONTROL	
			7	7	601	21050	7	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
		383		383	609	26000	383	FT	CURB, TYPE 6	26
3,210				3,210	659	00510	3,210	SY	SEEDING AND MULCHING, CLASS 2	14
0.4				0.4	659	20000	0.4	TON	COMMERCIAL FERTILIZER	5
0.7				0.7	659	31000	0.7	ACRE	LIME	5
17				17	659	35000	17	MGAL	WATER	5
				1,000	832	30000	1,000	EACH	EROSION CONTROL	5
									DRAINAGE	
			62	62	611	05900	62	FT	15" CONDUIT, TYPE B-706.02	
			1	1	611	98180	1	EACH	CATCH BASIN, NO. 3A	26
										26
									PAVEMENT	
		92		92	301	56000	92	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
		92		92	304	20000	92	CY	AGGREGATE BASE	14
	24	66		90	407	20000	90	GAL	NON-TRACKING TACK COAT	14
		22		22	408	10001	22	GAL	PRIME COAT, AS PER PLAN	14
		19		19	441	50000	19	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	14
		27		27	441	50300	27	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	14
										14
									TRAFFIC CONTROL	
		2		2	621	00100	2	EACH	RPM	
		2		2	621	54000	2	EACH	RAISED PAVEMENT MARKER REMOVED	14
		0.08		0.08	642	00104	0.08	MILE	EDGE LINE, 6", TYPE 1	14
		0.01		0.01	642	00300	0.01	MILE	CENTER LINE, TYPE 1	14
										14
									MAINTENANCE OF TRAFFIC	
	20			20	441	90000	20	CY	ASPHALT CONCRETE, MISC.: SPOT TREATMENT	
				LS	614	12420	LS		DETOUR SIGNING	11
	8			8	614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	
	1			1	616	10000	1	MGAL	WATER	11
										11
									INCIDENTALS	
				LS	614	11000	LS		MAINTAINING TRAFFIC	
LS				LS	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	5
				LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER GPM

REVIEWER

PROJECT ID 115989

SHEET P.13 TOTAL 28

MUS-376-5.09