

LOCATION MAP

LATITUDE: N39°59'55" LONGITUDE: W81°50'25"

SCALE IN MILES
0 1 2 3 4



PORTION TO BE IMPROVED _____
INTERSTATE & DIVIDED HIGHWAY _____
UNDIVIDED STATE & FEDERAL ROUTES _____
OTHER ROADS _____

DESIGN DESIGNATION

CURRENT ADT (2007) _____ 260
DESIGN YEAR ADT (2027) _____ 387
DESIGN HOURLY VOLUME (2027) _____ 30
DIRECTIONAL DISTRIBUTION _____ 55%
TRUCKS (24 HOUR B&C) _____ 3%
DESIGN SPEED _____ 35 MPH
LEGAL SPEED _____ 35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:
RURAL LOCAL

NHS PROJECT _____ NO

DESIGN EXCEPTIONS

NONE REQUIRED

UNDERGROUND UTILITIES	
CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG	
CALL 1-800-362-2764 (TOLL FREE)	
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY	
OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-929-0988	

PLAN PREPARED BY:

 Wd partners
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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MUS-C.R. 82-2.14

PERRY TOWNSHIP
MUSKINGUM COUNTY

INDEX OF SHEETS:

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STAGE 3 PLAN
SUBMISSION

PROJECT DESCRIPTION

IMPROVEMENT OF 0.08 MILES OF C.R. 82 (ARCH HILL ROAD) BY REPLACING A SINGLE SPAN TRUSS BRIDGE OVER SALT CREEK WITH A BOX-BEAM BRIDGE AND APPROACH ROADWAY CONSTRUCTION INCLUDING GRADING, DRAINAGE AND ASPHALT CONCRETE PAVING.

PROJECT EARTH DISTURBED AREA: 0.44 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.17 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 4.90 ACRES

FEDERAL PROJECT NO.
E033(596)

PID NO.
24278

RAILROAD INVOLVEMENT
NONE

2005 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS 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 6.

WE THE COMMISSIONERS OF MUSKINGUM COUNTY, IN FORMAL SESSION, HEREBY APPROVE THESE PLANS.

MUSKINGUM COUNTY COMMISSIONER _____ DATE _____

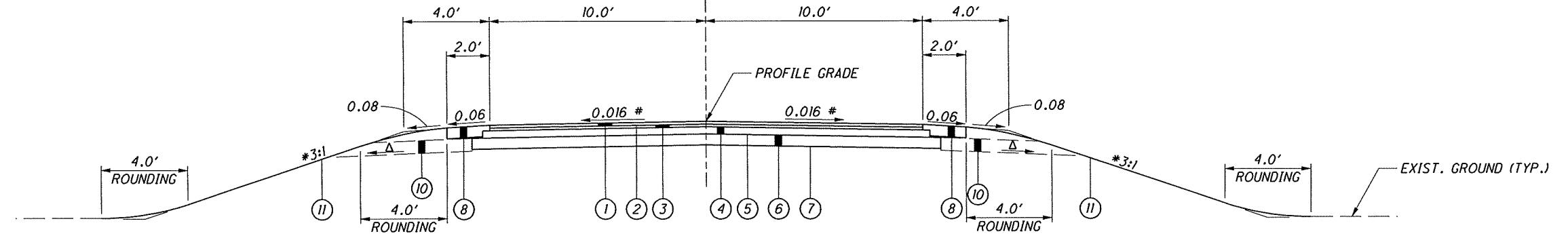
MUSKINGUM COUNTY COMMISSIONER _____ DATE _____

MUSKINGUM COUNTY COMMISSIONER _____ DATE _____

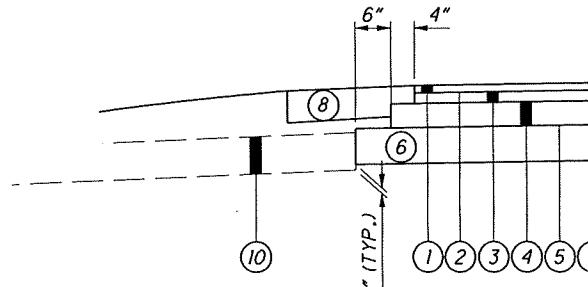
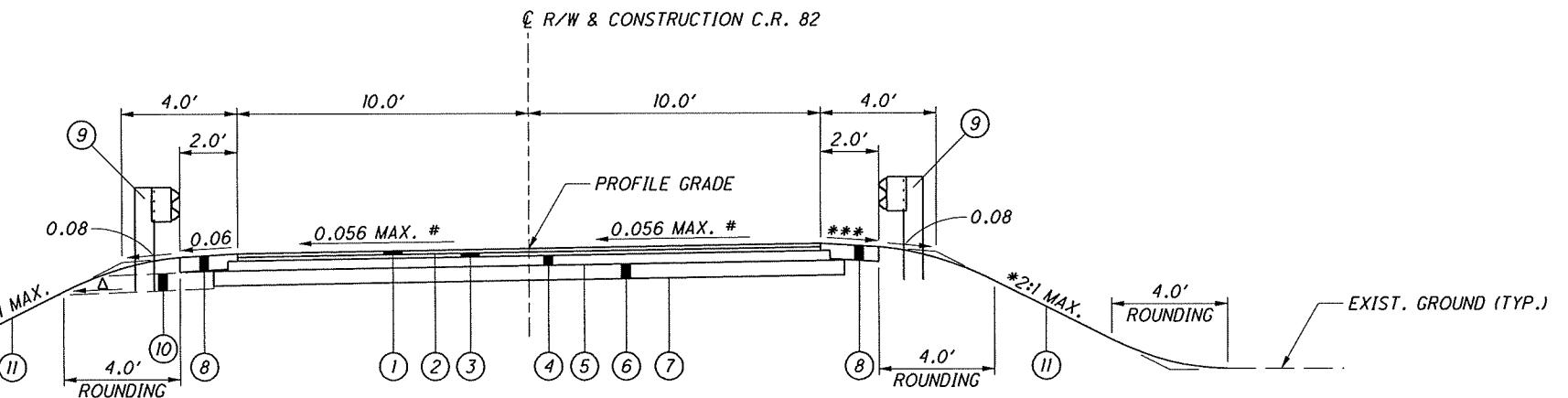
APPROVED _____ DATE _____ MUSKINGUM COUNTY ENGINEER

MUS-C.R. 82-2.14

C R/W & CONSTRUCTION C.R. 82

NORMAL SECTION

SECTION APPLIES:
 STA. 6+50.00 TO STA. 7+50.00 = 100.00 FT.
 TOTAL = 100.00 FT.

BASE AND SUBBASE STEP DETAILSUPERELEVATED SECTION

SECTION APPLIES:
 STA. 3+50.00 TO STA. 5+23.48 = 173.48 FT.
 STA. 5+96.52 TO STA. 6+50.00 = 53.48 FT.
 TOTAL = 226.96 FT.

(1) ITEM 448 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
 (2) ITEM 407 TACK COAT FOR INTERMEDIATE COURSE (0.04 GAL./SQ.YD.)
 (3) ITEM 448 1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
 (4) ITEM 301 4" ASPHALT CONCRETE BASE, PG64-22
 (5) ITEM 408 PRIME COAT (0.4 GAL./SQ.YD.)
 (6) ITEM 304 6" AGGREGATE BASE
 (7) ITEM 204 SUBGRADE COMPACTION
 (8) ITEM 411 8" STABILIZED CRUSHED AGGREGATE
 (9) ITEM 606 GUARDRAIL, TYPE 5
 (10) ITEM 605 AGGREGATE DRAINS
 (11) ITEM 659 SEEDING AND MULCHING
 (A) EXISTING 6"± ASPHALT PAVEMENT
 (B) EXISTING 4"± AGGREGATE BASE

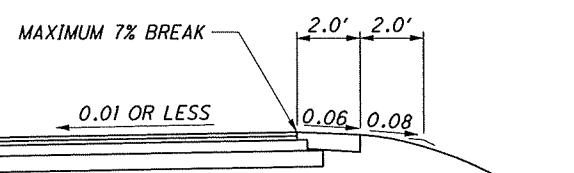
△ 0.08 FT./FT. DESIRABLE
 0.04 FT./FT. MINIMUM

SEE SUPERELEVATION TABLE, SHEET 17

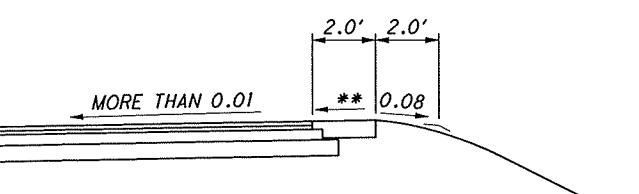
* UNLESS OTHERWISE SHOWN
 ON THE CROSS SECTIONS

** SAME SLOPE AS PAVEMENT

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

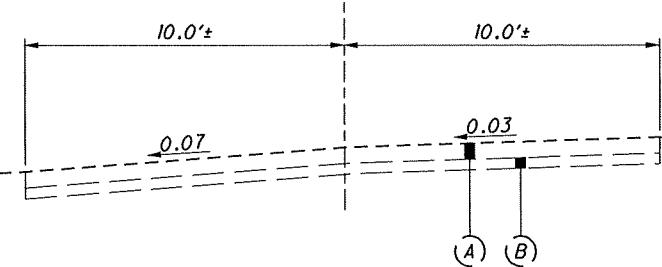
SHOULDER DETAIL

FOR PAVEMENT SLOPES OF 0.01 OR LESS

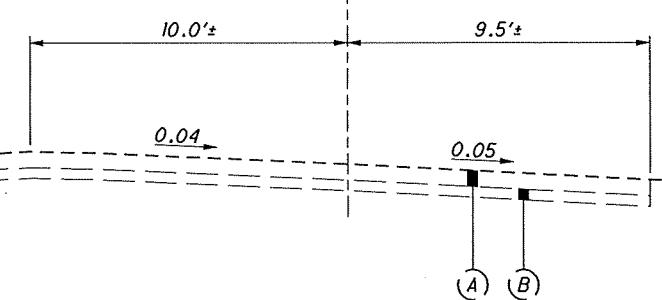
SHOULDER DETAIL

FOR PAVEMENT SLOPES MORE THAN 0.01

R/W & CONSTRUCTION C.R. 82

SECTION OF EXISTING ADJOINING PAVEMENTSECTION APPLIES:
STA. 3+50.00

R/W & CONSTRUCTION C.R. 82

SECTION OF EXISTING ADJOINING PAVEMENTSECTION APPLIES:
STA. 7+50.00

NOTE

FOR PAVEMENT LEGEND, SEE SHEET 2

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:

TELEPHONE: AT&T
150 EAST GAY STREET, ROOM 11
COLUMBUS, OH 43215
PHONE: (800) 362-2764

ELECTRIC: GUERNSEY MUSKINGUM ELECTRIC
17 SOUTH LIBERTY STREET
NEW CONCORD, OH 43762
PHONE: (800) 521-9879

AEP OHIO
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215-2373
PHONE: (800) 277-2177

GAS: ARTEX OIL COMPANY
231 3RD STREET
MARIETTA, OH 45750
PHONE: (740) 373-3313

CAMERON DRILLING COMPANY
3636 ADAMSVILLE ROAD
ZANESVILLE, OH 43701
PHONE: (740) 453-3300

OXFORD OIL COMPANY
4900 BOGGS ROAD
ZANESVILLE, OH 43701
PHONE: (740) 452-4503

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.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

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"	1	0	1

ITEM SPECIAL - MAILBOX SUPPORT

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

WOOD POSTS SHALL BE NOMINAL 4" BY 4" SQUARE OR 4 1/2" DIAMETER ROUND, AND CONFORM TO 710.14.

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

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

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

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

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

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

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

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

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE.

STREAM CHANNEL EXCAVATION

STREAM CHANNEL EXCAVATION WITHIN "WATERS OF THE US" IS SUBJECT TO US ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION AND WILL REQUIRE AUTHORIZATION BY THE USACE VIA THE WATERWAY PERMITTING PROCESS (404/401). IN ACCORDANCE WITH THE APPLICABLE WATERWAY PERMITS (404/401) STREAM CHANNEL EXCAVATION CAN NOT EXCEED THE QUANTITIES AND/OR SURFACE AREA THAT HAS BEEN PERMITTED. THE WATERWAY PERMITS ARE ATTACHED TO THE CONSTRUCTION PLANS AS SPECIAL PROVISIONS AND WILL BE AVAILABLE IN THE PROJECT CONSTRUCTION OFFICE.

TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEANOUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

IN-STREAM WORK

IN-STREAM WORK WILL BE LIMITED WHERE PRACTICABLE AND ONLY CLEAN NON-ERODIBLE MATERIAL WILL BE USED FOR TEMPORARY CONSTRUCTION ACCESS FILLS. TEMPORARY FILLS WILL BE CONSTRUCTED SO AS TO ALLOW FISH PASSAGE AND TO NOT BACK UP WATER. TEMPORARILY PLACED MATERIAL WILL BE REMOVED AND THE STREAM BOTTOM RESTORED TO NEAR PRE-CONSTRUCTION CONDITIONS WHEN THE WORK IS COMPLETED.

TEMPORARY CONSTRUCTION FILL

ANY TEMPORARY CONSTRUCTION ACCESS FILL WITHIN "WATERS OF THE US" (EG., STREAMS, WETLANDS) SUBJECT TO US ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION WILL REQUIRE AUTHORIZATION BY THE USACE PRIOR TO THE PLACEMENT OF TEMPORARY FILL VIA THE WATERWAY PERMITTING PROCESS (404/401). ALL TEMPORARY CONSTRUCTION ACCESS FILLS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE WATERWAY PERMITS (404/401) AND SHOULD NOT EXCEED THE QUANTITIES AND/OR SURFACE AREA OF TEMPORARY FILL THAT HAS BEEN PERMITTED. ADDITIONALLY, SOME TEMPORARY CONSTRUCTION ACCESS FILLS MAY ONLY BE ALLOWED IN SPECIFIC LOCATIONS, PER THE WATERWAY PERMITS (404/401) AND/OR OTHER ENVIRONMENTAL COMMITMENTS, AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH ANY SUCH LOCATIONAL RESTRICTIONS TO AVOID ENVIRONMENTALLY SENSITIVE AREAS. THE WATERWAY PERMITS ARE ATTACHED TO THE CONSTRUCTION PLANS AS SPECIAL PROVISIONS AND ARE BE AVAILABLE IN THE PROJECT CONSTRUCTION OFFICE.

DEMOLITION DEBRIS

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

BANK STABILIZATION

BANK STABILIZATION WILL BE LIMITED TO WITHIN 50 FEET UPSTREAM AND DOWNSTREAM OF THE EXISTING STRUCTURE. BANK STABILIZATION WILL BE LIMITED TO REGRADING OF THE BANKS FROM TOE-OF-SLOPE (INSTREAM) TO THE TOP OF BANK AND WILL INCLUDE PLACEMENT OF ROCK CHANNEL PROTECTION WHERE REQUIRED. THIS EXCLUDES WORK SUCH AS WIDENING, DEEPENING OR RELOCATION. THE EXTENT OF SUCH STABILIZATION WILL BE KEPT TO A MINIMUM.

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.

PIPE CONNECTIONS TO CORRUGATED METAL STRUCTURES

CONNECTIONS OF PROPOSED LONGITUDINAL DRAINAGE TO CORRUGATED METAL STRUCTURES SHALL BE MADE BY MEANS OF A SHOP FABRICATED OR FIELD WELDED STUB ON THE STRUCTURE. THE STUB SHALL MEET THE REQUIREMENTS OF 707 AND HAVE A MINIMUM LENGTH OF 2 FEET AND A MINIMUM WALL THICKNESS OF 0.064 INCHES.

THE LOCATION AND ELEVATION OF THE STUB ARE TO BE CONSIDERED APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO AVOID CUTTING THROUGH JOINTS IN THE STRUCTURE.

THE FIELD WELDED JOINT, IF USED, SHALL BE THOROUGHLY CLEANED AND REGALVANIZED OR OTHERWISE SUITABLY REPAIRED. WELDING SHALL MEET THE REQUIREMENTS OF 513.21.

A MASONRY COLLAR, AS PER STANDARD DRAWING DM-1.1, WILL BE REQUIRED TO CONNECT THE LONGITUDINAL DRAINAGE TO THE STUB, WHEN PIPE OTHER THAN CORRUGATED METAL IS PROVIDED FOR THE LONGITUDINAL DRAINAGE.

PAYMENT FOR CUTTING INTO THE STRUCTURE AND PROVIDING THE CONNECTION DESCRIBED, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 603 OR 522.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT FOLLOWING LOCATIONS AND THE TOTAL QUANTITY CARRIED TO THE GENERAL SUMMARY.

STA. 4+00 LT.	8 FT.
STA. 4+25 LT.	6 FT.
STA. 4+50 LT.	5 FT.
STA. 4+75 LT.	5 FT.
STA. 5+00 LT.	5 FT.
STA. 5+18 LT.	5 FT.
STA. 6+05 RT.	6 FT.
STA. 6+25 RT.	5 FT.
STA. 6+50 RT.	6 FT.
STA. 6+75 LT.	5 FT.
STA. 7+00 LT.	5 FT.
STA. 7+25 RT.	16 FT.
TOTAL 77 FT.	

ITEM 605 - AGGREGATE DRAINS 77 FT.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	131 CU. YD.
659, REPAIR SEEDING AND MULCHING	59 SQ. YD
659, INTER-SEEDING	59 SQ. YD.
659, COMMERCIAL FERTILIZER	0.16 TON
659, LIME	0.24 ACRES
659, WATER	7 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 MULCHING ARE BASED ON THESE LIMITS.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 1 HOUR

CONTRACTOR'S USE OF RIGHT-OF-WAY

THE CONTRACTOR SHALL NOT USE OR ENTER ANY AREA AROUND THE EXISTING COVERED BRIDGE.

MUS-C.R.82-2.14

CALCULATED
TWG

CHECKED
FJR

GENERAL NOTES

CENTERLINE REFERENCES C.R. 82						
STATION	OFFSET (FT.)	SIDE	NORTHING	EASTING	ELEVATION	DESCRIPTION
2+45.16	0.00	£	728724.90	2153113.69		P.C.
3+76.27		RT.	728720.43	2153244.73		P.I.
3+91.32	15.59	RT.	728728.86	2153262.49	764.89	MONUMENT FOUND
5+00.17	0.00	£	728787.72	2153357.26		P.T.
7+70.56	15.76	RT.	728912.96	2153597.41	767.18	MONUMENT FOUND
8+50.00	0.00	£	728967.26	2153657.50		P.O.T.

ITEM 614 - MAINTAINING TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48"X30" ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES, GATES AND LIGHTS AS SHOWN ON SHEET 7 AT THE LOCATIONS SHOWN DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

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 OF THE TYPE AND LOCATION AS SHOWN ON THE PLANS.

ALL WORK AND TRAFFIC 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.

DETOUR SIGNAGE

THE COUNTY SHALL ERECT AND MAINTAIN DETOUR SIGNAGE AS SHOWN ON THE PLANS.

DETOUR NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE COUNTY EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. THE COUNTY SHALL THEN PROVIDE AND INSTALL ALL DEVICES NECESSARY TO DEFINE THE ROUTE OF THE DETOUR AND SHALL MAINTAIN THE SAME THROUGHOUT THE DETOUR LIMITATION DATES. ALL TRAFFIC CONTROL DEVICES REQUIRED, OTHER THAN FOR THE DETOUR, SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

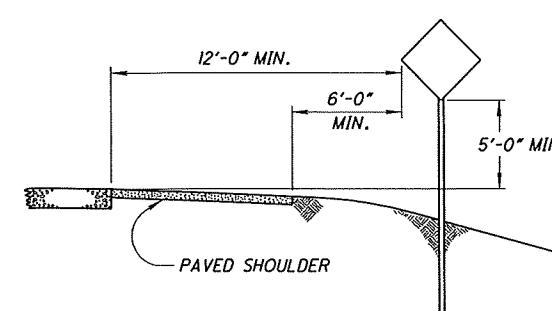
DETOUR LIMITATION

THE MAXIMUM LENGTH OF TIME FOR THE DETOUR ROUTE TO BE IN EFFECT SHALL BE NINETY (90) CONSECUTIVE DAYS. CONSTRUCTION WORK MAY BE PERFORMED BEFORE AND AFTER THE DETOUR LIMITATION DATES, BUT THERE SHALL BE NO RESTRICTIONS TO THROUGH OR LOCAL TRAFFIC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE CONSTRUCTION WORK WITHIN THE DETOUR LIMITATION TIME. THE FAILURE OF THE CONTRACTOR TO MEET THE DETOUR LIMITATION DATES WILL CAUSE SEPARATE LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 TO BE ASSESSED. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF 108.07 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

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 2 M. GAL.



RURAL SIGN DETAIL

M4-8A (30"x24")

END DETOUR
ARCH HILL RD
DETOUR ↑

SPECIAL (30"x12")
M4-9C (30"x24")
ARCH HILL RD
DETOUR ←

SPECIAL (30"x12")
M4-9L (30"x24")
ARCH HILL RD
DETOUR →

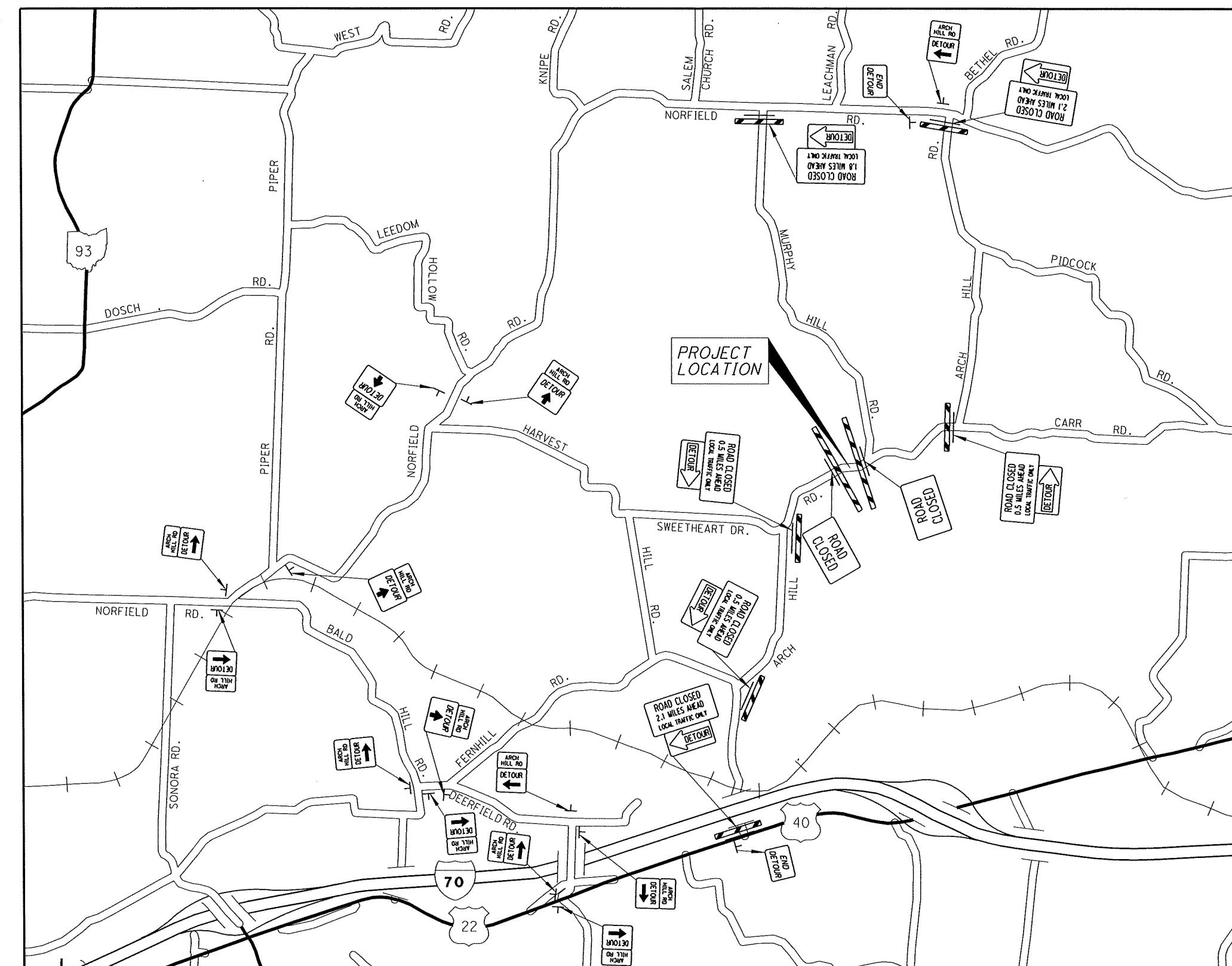
SPECIAL (30"x12")
M4-9R (30"x24")
ARCH HILL RD
DETOUR →

ROAD CLOSED X.X MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR ←
DETOUR →
RII-3a (60"x30")
M4-10L (48"x18")

ROAD CLOSED X.X MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR ←
DETOUR →
RII-3a (60"x30")
M4-10R (48"x18")

ROAD CLOSED
RII-2 (48"x30")

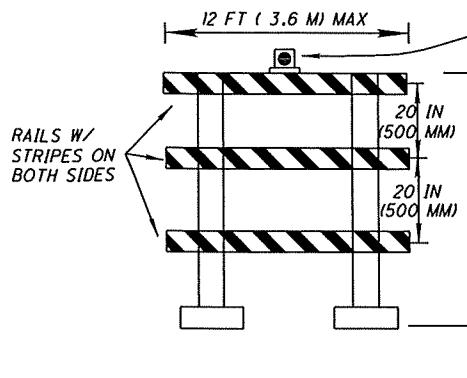
GATES AND BARRICADES AS SHOWN ON SHEET 7
TYPE III BARRICADE
TYPICAL POST MOUNTED SIGN (SEE RURAL SIGN DETAIL)



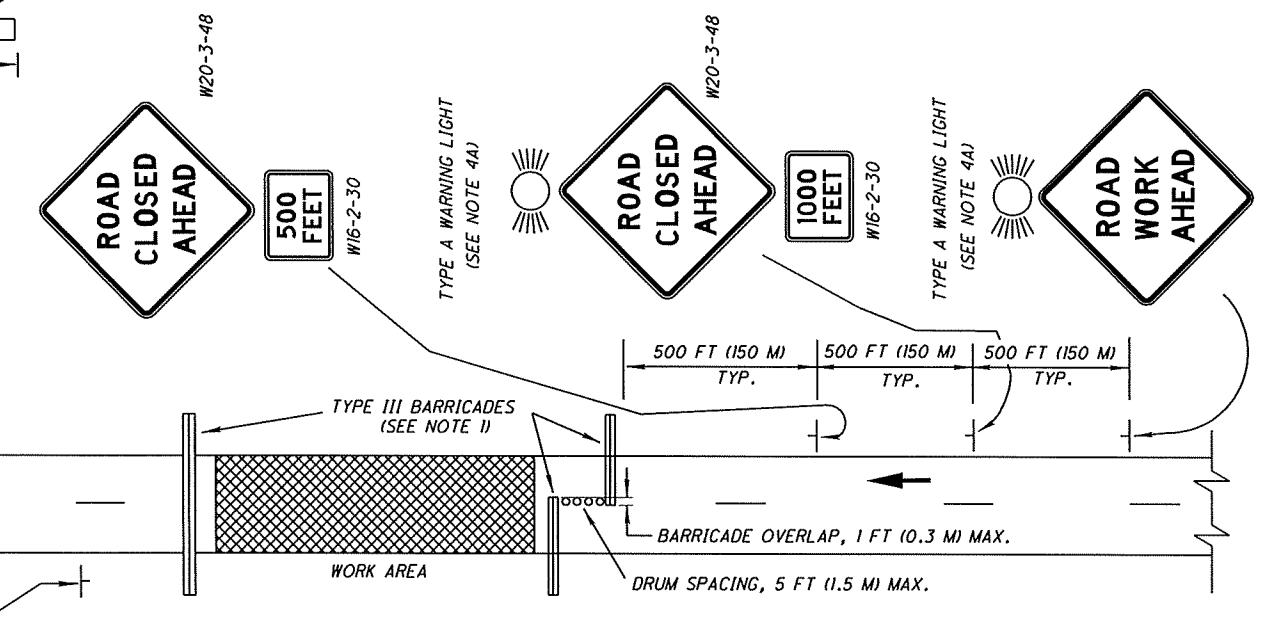
SIGN KEY

MAINTENANCE OF TRAFFIC
DETOUR PLAN AND GENERAL NOTES

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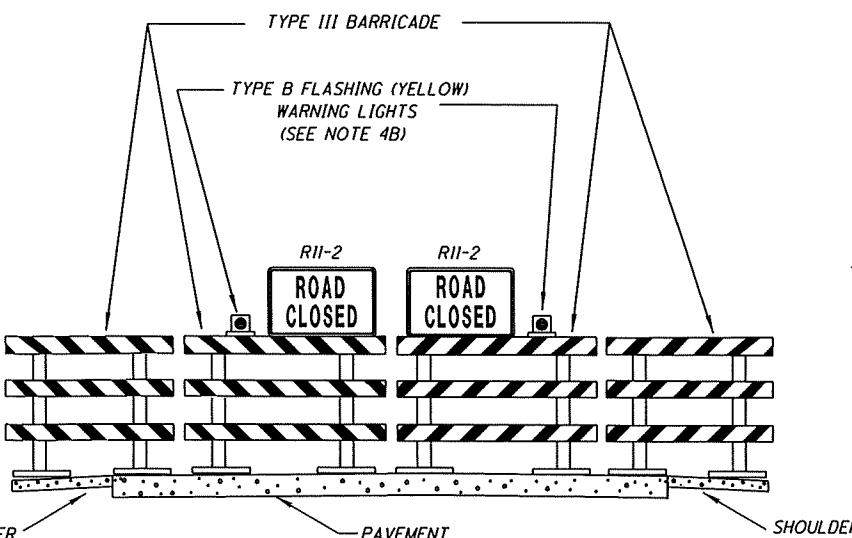


TYPE III BARRICADE DETAIL

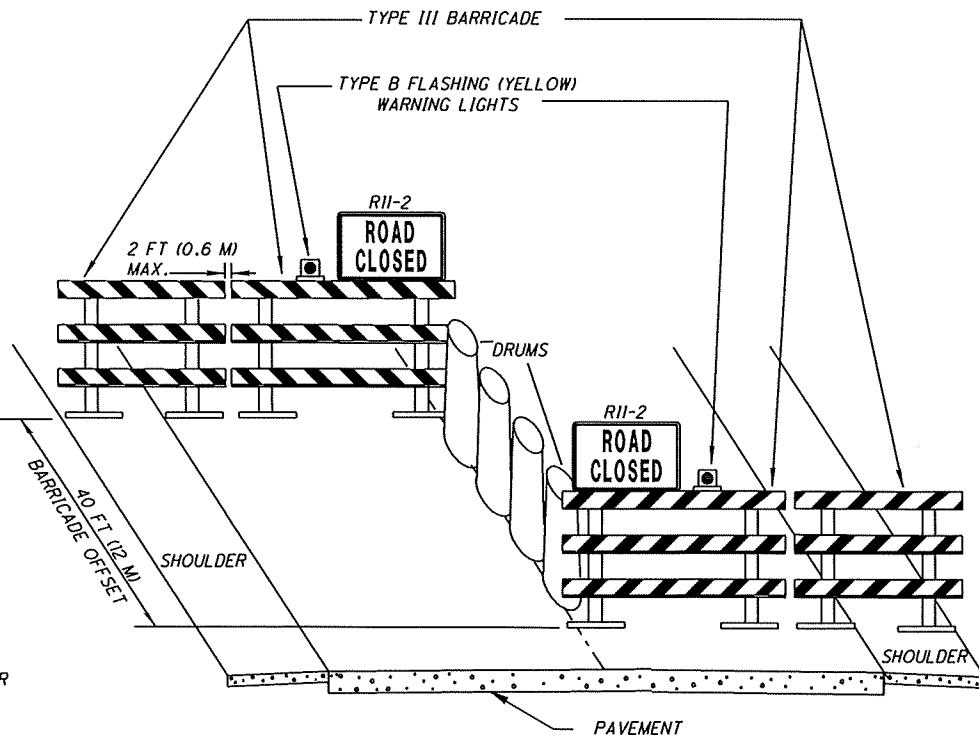


ADVANCE WARNING SIGNS FOR CLOSURE

(SEE NOTES 3B, 3C)



BARRICADE CLOSURE PROFILE



BARRICADE CLOSURE OFFSET OPTION

NOTES

1. BARRICADE USE

- A. BARRICADES SHALL BE NCHRP 350 COMPLIANT AND SHALL BE ERECTED ACCORDING TO DETAILS SHOWN. WHEN THE ROAD IS CLOSED TO TRAFFIC, BARRICADES SHALL BE USED TO EFFECTIVELY CLOSE THE ENTIRE ROADWAY, INCLUDING THE PAVED OR AGGREGATE SHOULDER.
- B. BARRICADES ALONG ADJACENT LANES MAY BE OFFSET FROM EACH OTHER AS SHOWN, WITH DRUMS USED TO CLOSE THE RESULTING GAP. MAXIMUM DRUM SPACING SHALL BE 5 FEET (1.5 M).

2. BARRICADE REFLECTORIZATION AND COLOR

- A. IN CONSTRUCTION OR MAINTENANCE AREAS, ALL RAILS OF THE BARRICADES SHALL BE REFLECTORIZED WITH ORANGE AND WHITE REFLECTORIZED TYPE C SHEETING IN 6 INCHES (150 MM) WIDE ALTERNATE STRIPES WHICH SLOPE DOWNWARD TOWARD THE CENTER LINE OF THE ROAD AT AN ANGLE OF 45 DEGREES. ALL THREE RAILS OF THE BARRICADE SHALL BE STRIPED ON BOTH SIDES. LEGS AND FEET SHALL BE EITHER ALL-WHITE OR MAY DISPLAY THE NATURAL COLOR OF THE MATERIAL USED.
- B. BARRICADES USED IN PERMANENT OR SEMI-PERMANENT APPLICATIONS SHALL DIFFER ONLY IN THAT THEY SHALL USE RED AND WHITE STRIPES.

3. SIGNS

- A. WHERE THE ROAD IS CLOSED TO TRAFFIC BY THE ERECTION OF BARRICADES, ROAD CLOSED (RII-2) SIGNS SHALL BE MOUNTED AS SHOWN.
- B. THE ADVANCE WARNING SIGNS SHOWN ON THIS DRAWING ARE INTENDED FOR USE WHEN THE TRAVELED WAY IS BROUGHT TO AN END WITH NO DIRECTION GIVEN TO TRAFFIC. WHERE TRAFFIC HAS BEEN DIRECTED FROM THE PERMANENT ROADWAY AT OR JUST IN ADVANCE OF THE BARRICADES, ADVANCE SIGNING SHOULD BE PROVIDED AS SHOWN IN SCD MT-95.70 OR OMUTCD FIGURE 6H-7 AS APPROPRIATE.
- C. THE ADVANCE WARNING SIGNS SHALL BE PLACED ON BOTH SIDES OF THE ROADWAY FOR 4-LANE DIVIDED HIGHWAYS OR WHEN

1 FLASHING WARNING LIGHTS

- A. TYPE A FLASHING WARNING LIGHTS ARE REQUIRED ON THE ROAD WORK AHEAD (W20-1) SIGN AND ON THE FIRST ROAD CLOSED AHEAD (W20-3) SIGN.
- B. TYPE B FLASHING WARNING LIGHTS SHALL BE PROVIDED ON TYPE III BARRICADES, ONE LIGHT PER EACH CLOSED LANE. EACH LIGHT SHALL BE CONSPICUOUSLY VISIBLE AT ALL DISTANCES UP TO 1000 FEET (300 M) UNDER NORMAL ATMOSPHERIC CONDITIONS. THE LIGHT SHALL BE IN OPERATION AT ALL TIMES DURING THE PERIOD THE HIGHWAY IS CLOSED.

5. OPERATION ON 2-LANE 2-WAY ROADWAYS

- A. WHERE THE BARRICADE RUNS ACROSS THE ENTIRE ROADWAY WITHOUT LONGITUINALLY OFFSETTING SECTIONS, THE CONTRACTOR WILL NORMALLY OPEN ONLY THE LEFT SIDE OF THE BARRICADE AS NECESSARY TO ALLOW THE CONSTRUCTION VEHICLE TO ENTER, AND THEN SHALL IMMEDIATELY CLOSE IT. THE ENTIRE BARRICADE WILL NOT NORMALLY BE OPENED AT THE SAME TIME. THE CONTRACTOR SHALL ASSIGN AN EMPLOYEE TO ASSURE THAT THE BARRICADE IS CLOSED AT THE END OF EACH WORKDAY.
- B. WHERE THE SECTIONS OF THE BARRICADE ARE OFFSET FROM EACH OTHER WITH DRUMS PROVIDED TO CLOSE THE GAP (SEE NOTE 1B), THE CONTRACTOR MAY MOVE THE DRUMS AS NECESSARY TO ALLOW THE CONSTRUCTION VEHICLE TO ENTER, AND THEN SHALL IMMEDIATELY REPLACE THE DRUMS. THE CONTRACTOR SHALL ASSIGN AN EMPLOYEE TO ASSURE THAT THE DRUMS ARE IN PLACE AT THE END OF EACH WORKDAY.

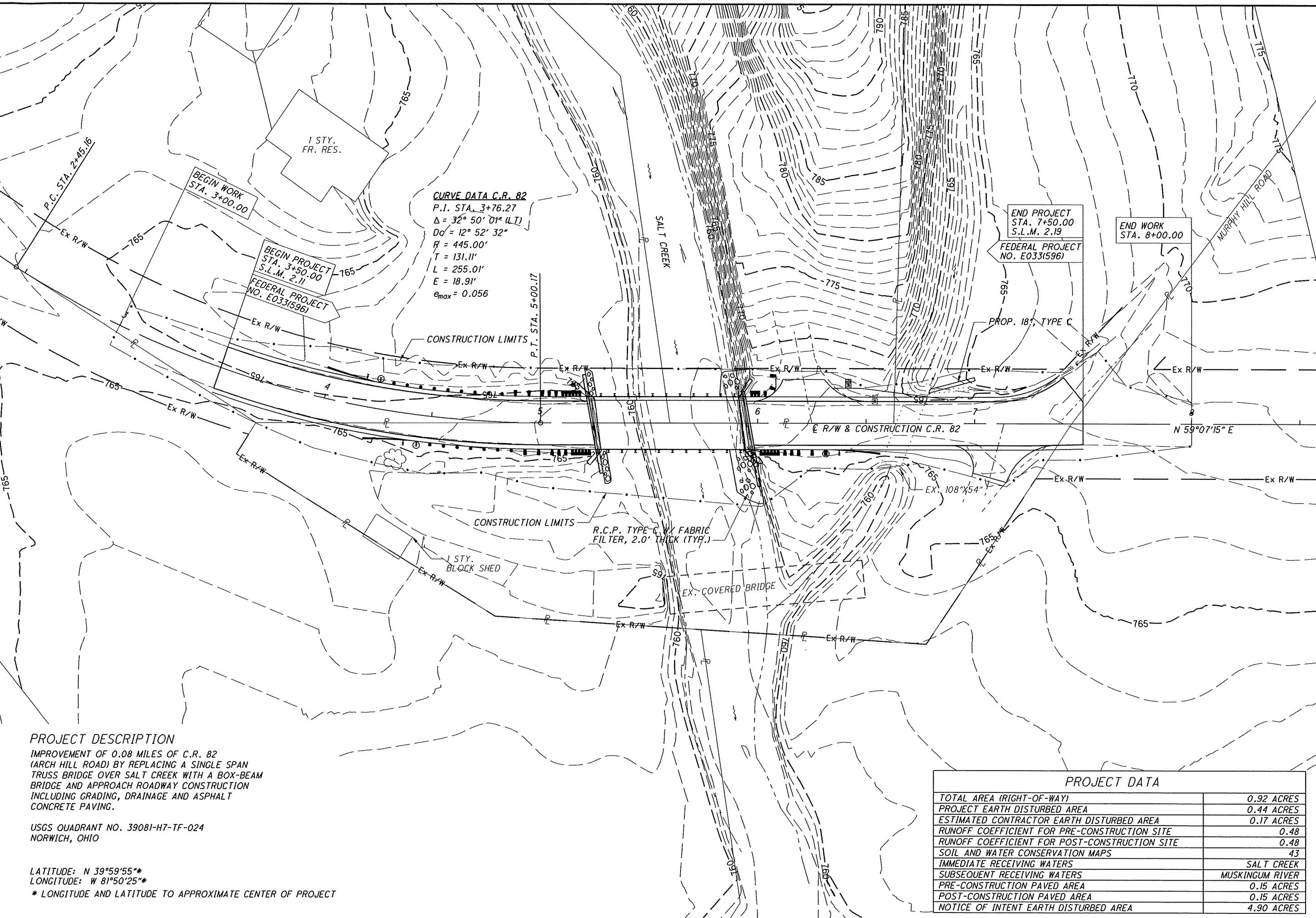
SHEET NUMBER										ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
						OFFICE CALCS	4	5	6	11	16				
										201	11000	LUMP		ROADWAY	
										202	35100	78	FT	CLEARING AND GRUBBING PIPE REMOVED, 24" AND UNDER	
										202	53100	1	EACH	MAILBOX REMOVED	
										203	10000	251	CU YD	EXCAVATION	
										203	20000	400	CU YD	EMBANKMENT	
										203	20001	435	CU YD	EMBANKMENT, AS PER PLAN	20
										204	10000	846	SQ YD	SUBGRADE COMPACTION	
										204	45000	1	HOUR	PROOF ROLLING	
										254	01000	98	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE	
										606	13000	231.25	FT	GUARDRAIL, TYPE 5	
										606	25000	3	EACH	ANCHOR ASSEMBLY, TYPE A	
										606	32160	3	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST	
										606	32161	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST, AS PER PLAN	18
										SPECIAL	69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	4
														EROSION CONTROL	
										601	32204	58	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER	
										659	00100	2	EACH	SOIL ANALYSIS TEST	
										659	00300	131	CU YD	TOPSOIL	
										659	10000	1181	SQ YD	SEEDING AND MULCHING	
										659	14000	59	SQ YD	REPAIR SEEDING AND MULCHING	
										659	15000	59	SQ YD	INTER-SEEDING	
										659	20000	0.16	TON	COMMERCIAL FERTILIZER	
										659	31000	0.24	ACRE	LIME	
										659	35000	7	M GAL	WATER	
										832	15000	LUMP		STORM WATER POLLUTION PREVENTION PLAN	
										832	30000	1500	EACH	EROSION CONTROL	
														DRAINAGE	
										603	07600	22	FT	18" CONDUIT, TYPE C	
										605	31100	77	FT	AGGREGATE DRAINS	
														PAVEMENT	
										301	46000	85	CU YD	ASPHALT CONCRETE BASE, PG64-22	
										304	20000	148	CU YD	AGGREGATE BASE	
										407	10000	10	GALLON	TACK COAT	
										407	14000	30	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
										408	10000	297	GALLON	PRIME COAT	
										411	10000	32	CU YD	STABILIZED CRUSHED AGGREGATE	
										448	46050	36	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	
										448	47020	28	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	
														TRAFFIC CONTROL	
										626	00100	10	EACH	BARRIER REFLECTOR, TYPE A	
										642	00290	0.08	MILE	CENTER LINE	
														MAINTENANCE OF TRAFFIC	
										616	10000	2	M GAL	WATER	
														STRUCTURES (OVER 20')	
														FOR BRIDGE NO. MUS-CR82-0124	
										614	11000	LUMP		MAINTAINING TRAFFIC	
										619	16000	3	MONTH	FIELD OFFICE, TYPE A	
										623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
										624	10000	LUMP		MOBILIZATION	

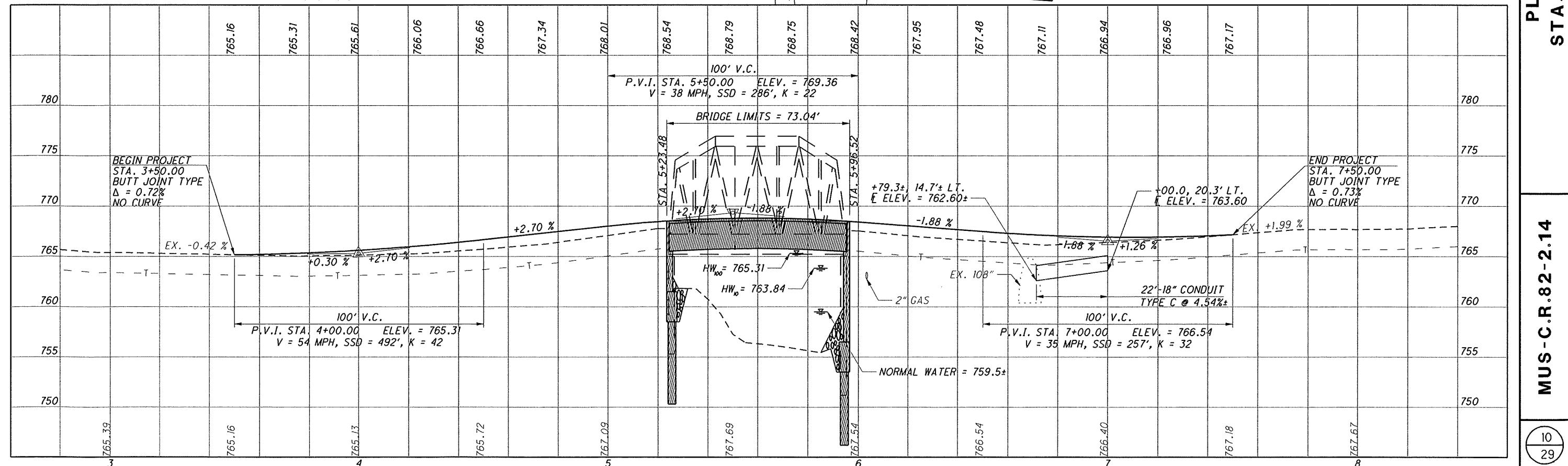
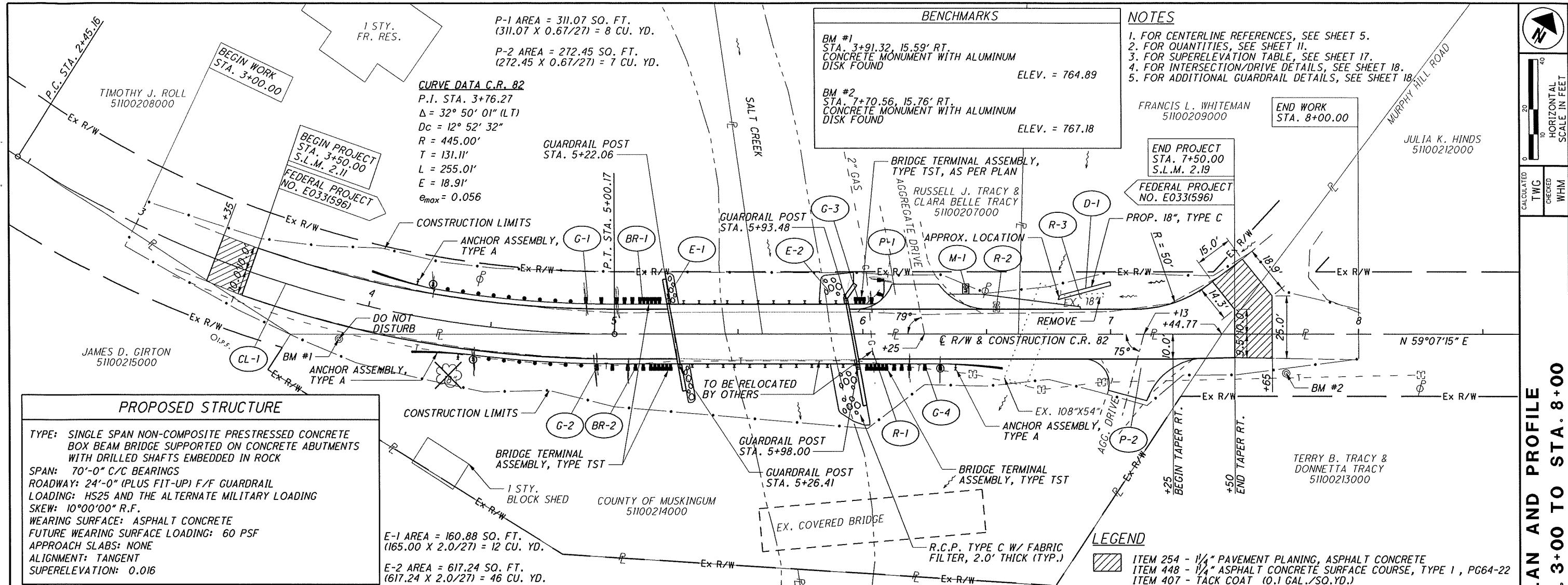


HORIZONTAL SCALE IN FEET

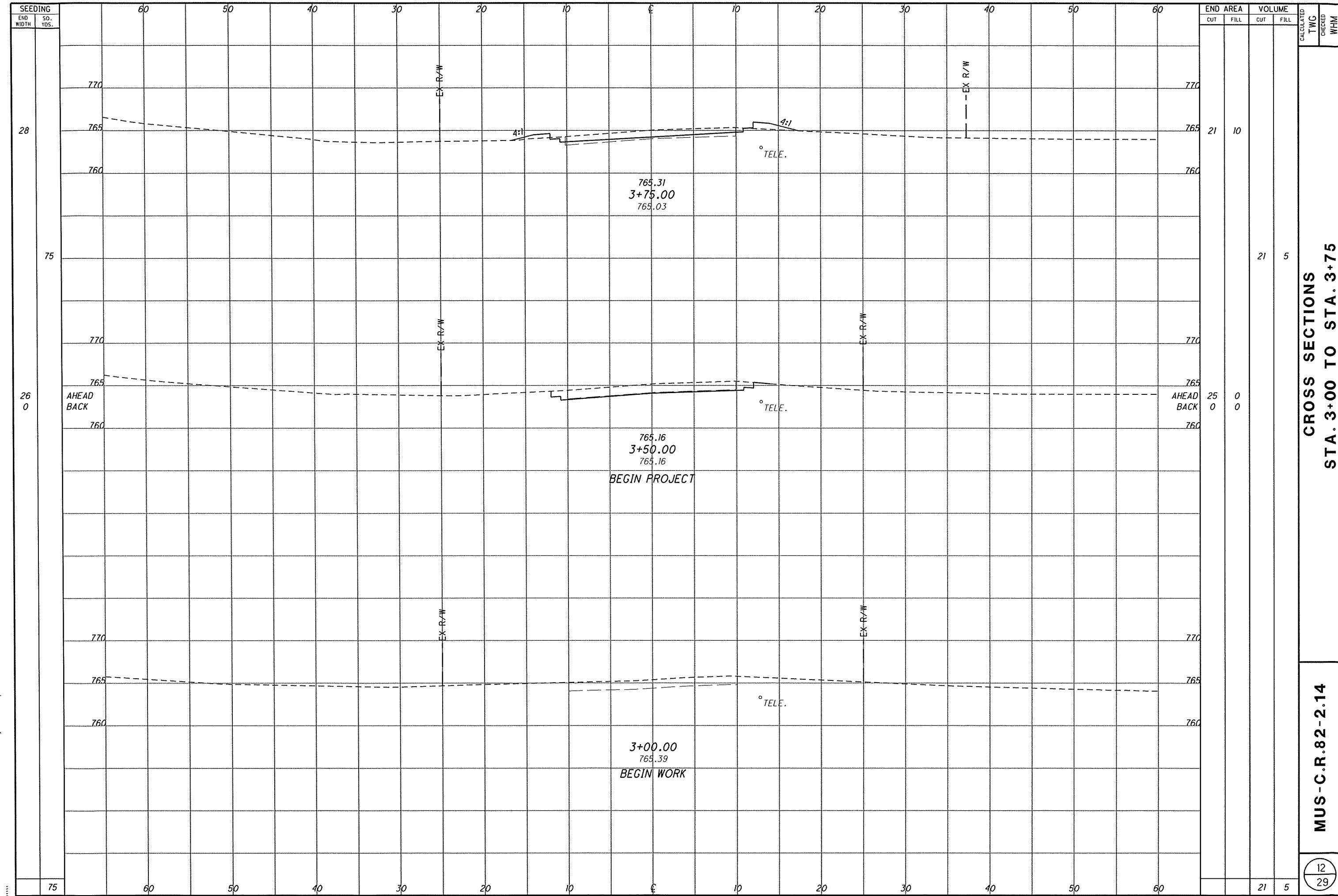
PROJECT SITE PLAN

MUS-C.R.82-2.14

9
29



REF NO.	SHEET NO.	STATION	SIDE	202	202	304	601	603	606	606	606	626	642	SPECIAL				
				PIPE REMOVED, 24" AND UNDER	MAILBOX REMOVED	AGGREGATE BASE	ROCK CHANNEL TYPE C PROTECTION, TYPE C WITH FABRIC FILTER	18" CONDUIT, TYPE C	GUARDRAIL, TYPE 5	BRIDGE TERMINAL ASSEMBLY, TYPE TST	BRIDGE TERMINAL ASSEMBLY, TYPE TST, AS PER PLAN	ANCHOR ASSEMBLY, TYPE A	BARRIER REFLECTOR, TYPE A	CENTER LINE DOUBLE SOLID	MAILBOX SUPPORT SYSTEM, SINGLE			
FROM	TO			FT	EACH	CU YD	CU YD	FT	FT	EACH	EACH	EACH	MILE	EACH				
R-1	6+01.5	6+06.8	LT/RT	60														
R-2		6+54.0	LT		1													
R-3	6+79.0	6+97.2	LT	18														
G-1	3+99.07	5+19.87	LT						93.75	1								
G-2	4+19.47	5+24.22	RT						81.25	1								
G-3	5+95.67	6+08.59	LT						25.00		1							
G-4	6+00.19	6+56.44	RT						31.25	1								
D-1	6+79.3	7+00.0	LT					22										
E-1	5+20.7	5+32.6	LT/RT			12												
E-2	5+82.6	6+02.7	LT/RT			46												
M-1		6+41.8	LT											1				
P-1		6+25	LT			8												
P-2		7+13	RT			7												
BR-1	3+99.07	6+08.59	LT											5				
BR-2	4+19.47	6+56.44	RT											5				
CL-1	3+35.0	7+65.0	£											0.08				
TOTALS CARRIED TO GENERAL SUMMARY				78	1	15	58	22	231.25	3	1	3	10	0.08	1			



SEEDING
END S.
WIDTH YDS.

60 50 40 30 20 10 0 10 20 30 40 50 60

END AREA
CUT CUT
FILL FILL

CALCULATED
TWG
CHECKED
WHM

EX-R/W

32 770 765 760 765 770 765 760 765 770 765 760 765 770

93 770 765 760 765 770 765 760 765 770 765 760 765 770

35 770 765 760 765 770 765 760 765 770 765 760 765 770

97 770 765 760 765 770 765 760 765 770 765 760 765 770

35 770 765 760 765 770 765 760 765 770 765 760 765 770

93 770 765 760 765 770 765 760 765 770 765 760 765 770

32 770 765 760 765 770 765 760 765 770 765 760 765 770

83 770 765 760 765 770 765 760 765 770 765 760 765 770

366 60 50 40 30 20 10 0 10 20 30 40 50 60

19 18 19 18 19 18 19 18 19 18 19 18 19 18

52 45 46 46 46 46 46 46 46 46 46 46 46 46

18 39 18 39 18 39 18 39 18 39 18 39 18 39

45 39 39 39 39 39 39 39 39 39 39 39 39 39

18 31 18 31 18 31 18 31 18 31 18 31 18 31

39 28 28 28 28 28 28 28 28 28 28 28 28 28

13 13 13 13 13 13 13 13 13 13 13 13 13 13

29 29 29 29 29 29 29 29 29 29 29 29 29 29

CROSS SECTIONS
STA. 4+00 TO STA. 4+75

MUS-C.R.82-2.14

EX-R/W

767.34
4+75.00
766.24

766.66
4+50.00
765.72

766.06
4+25.00
765.28

765.61
4+00.00
765.13

° TELE.

2:1 3:1 4:1 4:1

CROSS SECTIONS STA. 5+00 TO STA. 6+25

MUS-C.R.82-2.14

SEEDING

END	SO.	END	SO.	VOLUME										
WIDTH	YDS.	CUT	FILL	CUT	FILL									
60	50	40	30	20	10	10	20	30	40	50	60	780	780	
780	775	770	765	760	755	750	745	740	735	730	725	720	715	710
710	705	700	695	690	685	680	675	670	665	660	655	650	645	640
640	635	630	625	620	615	610	605	600	595	590	585	580	575	570
570	565	560	555	550	545	540	535	530	525	520	515	510	505	500
500	495	490	485	480	475	470	465	460	455	450	445	440	435	430
430	425	420	415	410	405	400	395	390	385	380	375	370	365	360
360	355	350	345	340	335	330	325	320	315	310	305	300	295	290
290	285	280	275	270	265	260	255	250	245	240	235	230	225	220
220	215	210	205	200	195	190	185	180	175	170	165	160	155	150
150	145	140	135	130	125	120	115	110	105	100	95	90	85	80
80	75	70	65	60	55	50	45	40	35	30	25	20	15	10
10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
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10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
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80	75	70	65	60	55	50	45	40	35	30	25	20	15	10
10	15	20	25	30	35	40	45	50	55	60	65	70	75	80

SEEDING

END WIDTH	SO. YDS.	END AREA	VOLUME
CUT	FILL	CUT	FILL

END AREA

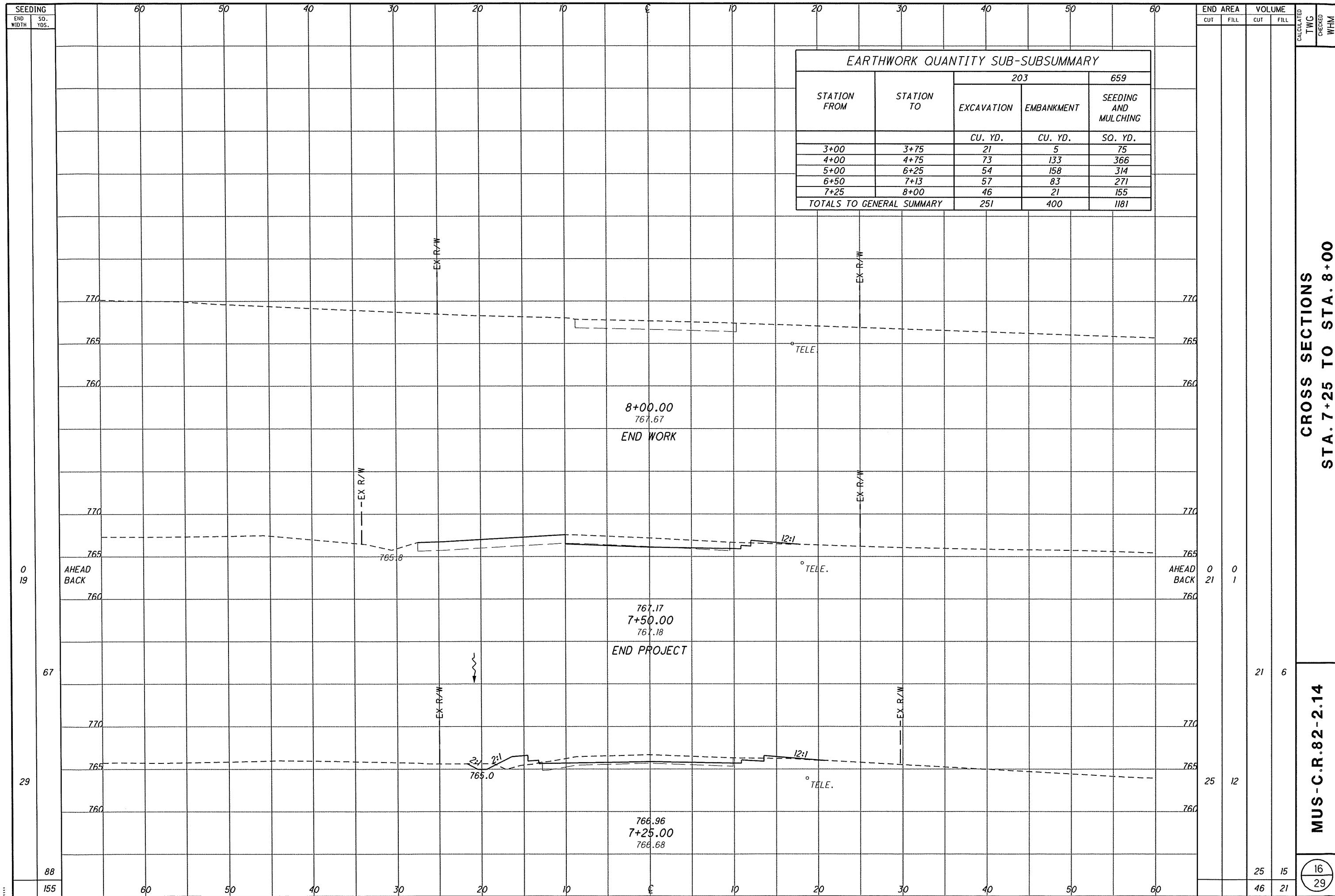
CUT	FILL	CALCULATED	TWC
CUT	FILL	CHECKED	WHM

CROSS SECTIONS

STA. 6+50 TO STA. 7+13

MUS-C.R. 82-2.14

15
29



CROSS SECTIONS

STA. 7+25 TO STA. 8+00

MUS-C.R.82-2.14

16
29

END AREA

VOLUME

CUT

FILL

CUT

FILL

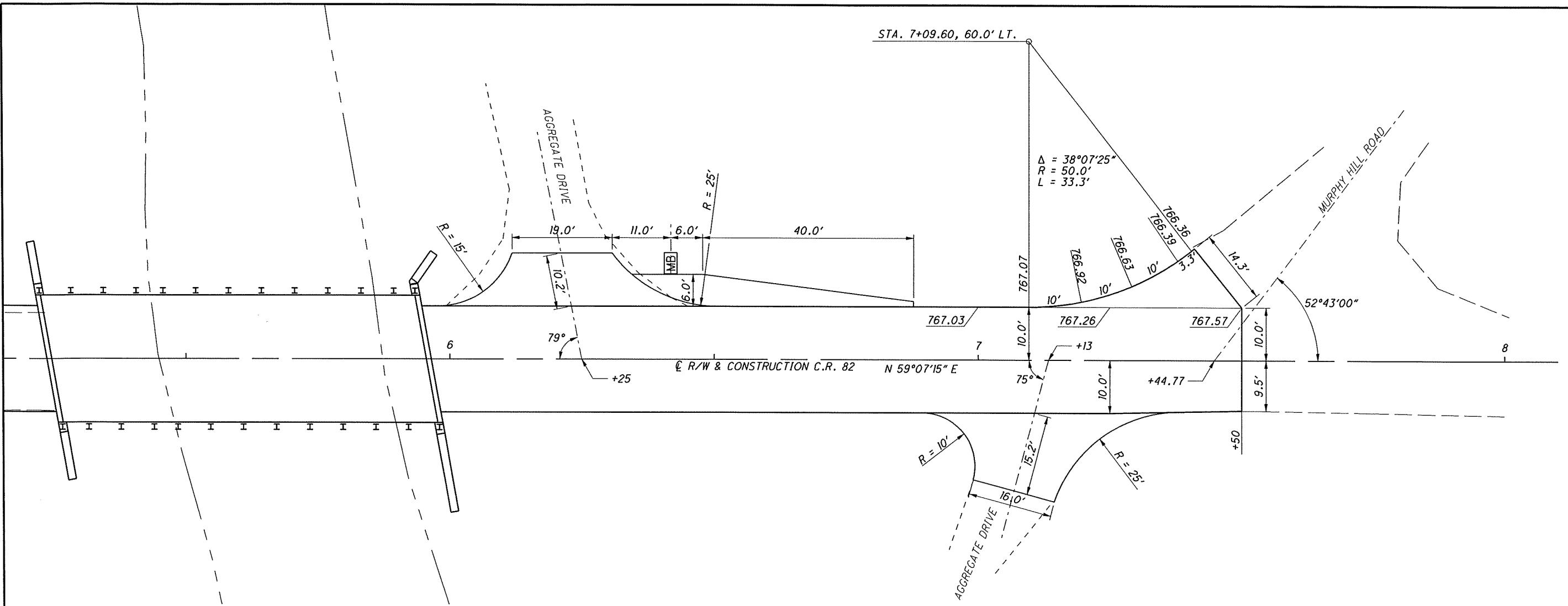
SUPERELEVATION TABLE

P.I. STA. 3+76.27

$D_c = 12^\circ 52' 32''$

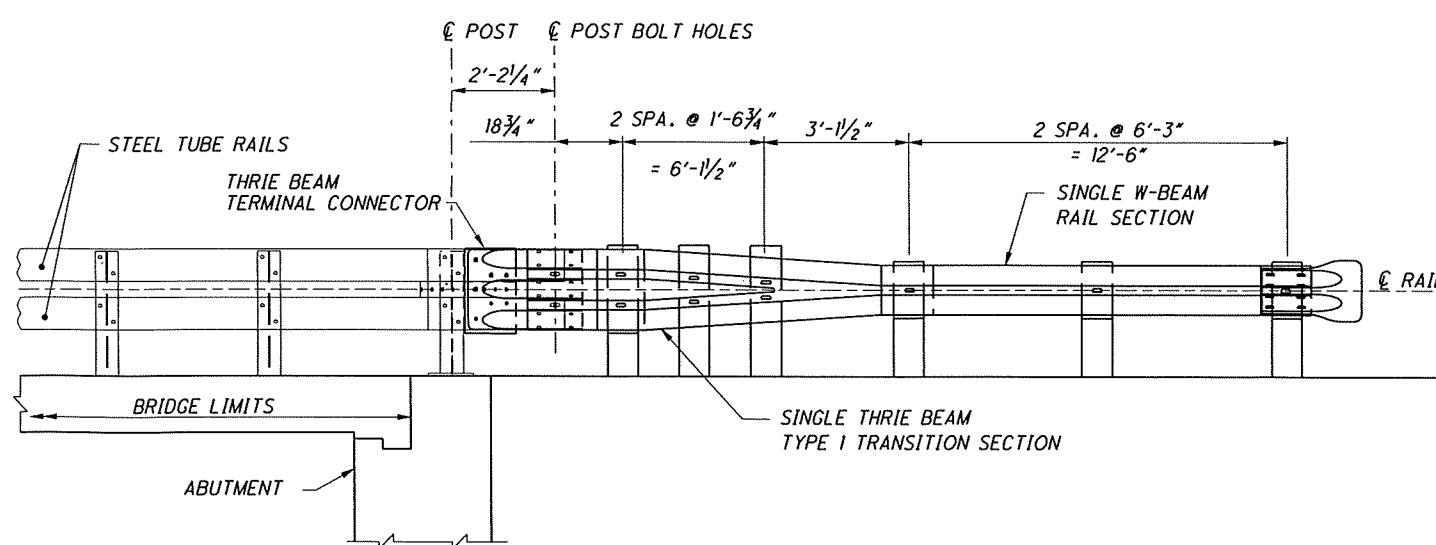
SUPERELEVATION TABLE

11. **What is the primary purpose of the *Journal of Clinical Endocrinology and Metabolism*?**

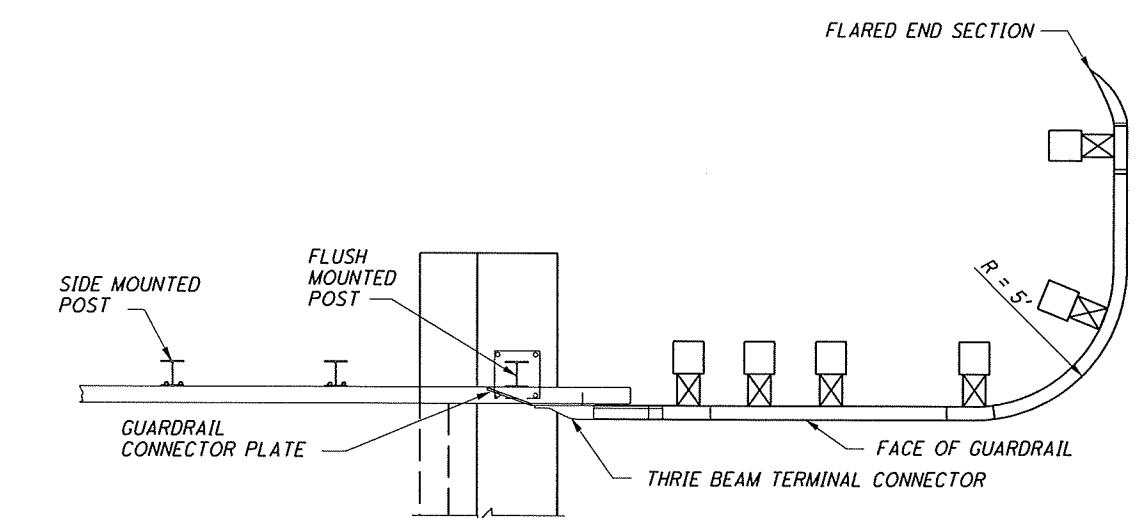


INTERSECTION / DRIVE DETAILS GUARDRAIL DETAILS

INTERSECTION / DRIVE DETAIL GUARDRAIL DETAILS



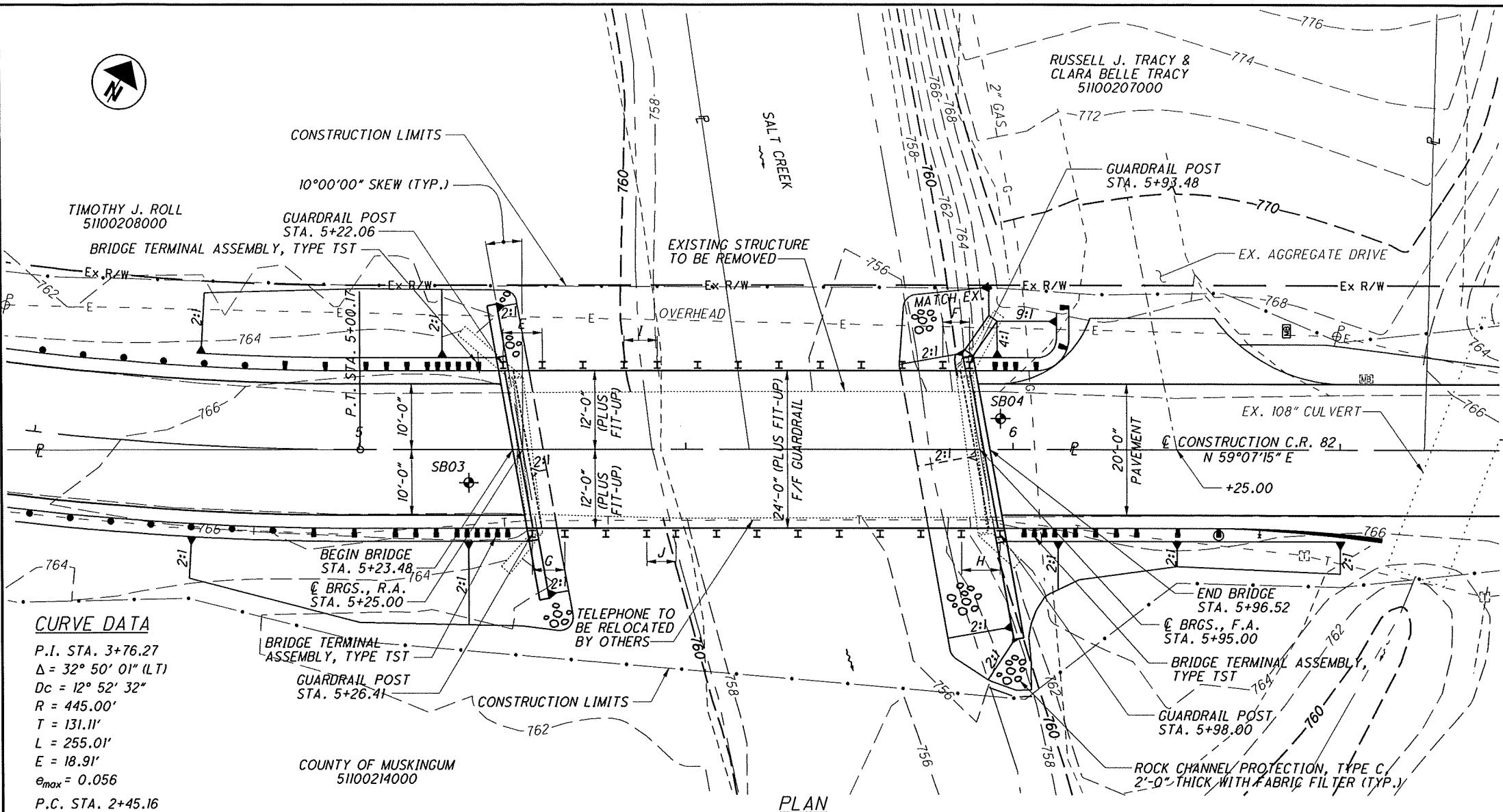
ELEVATION



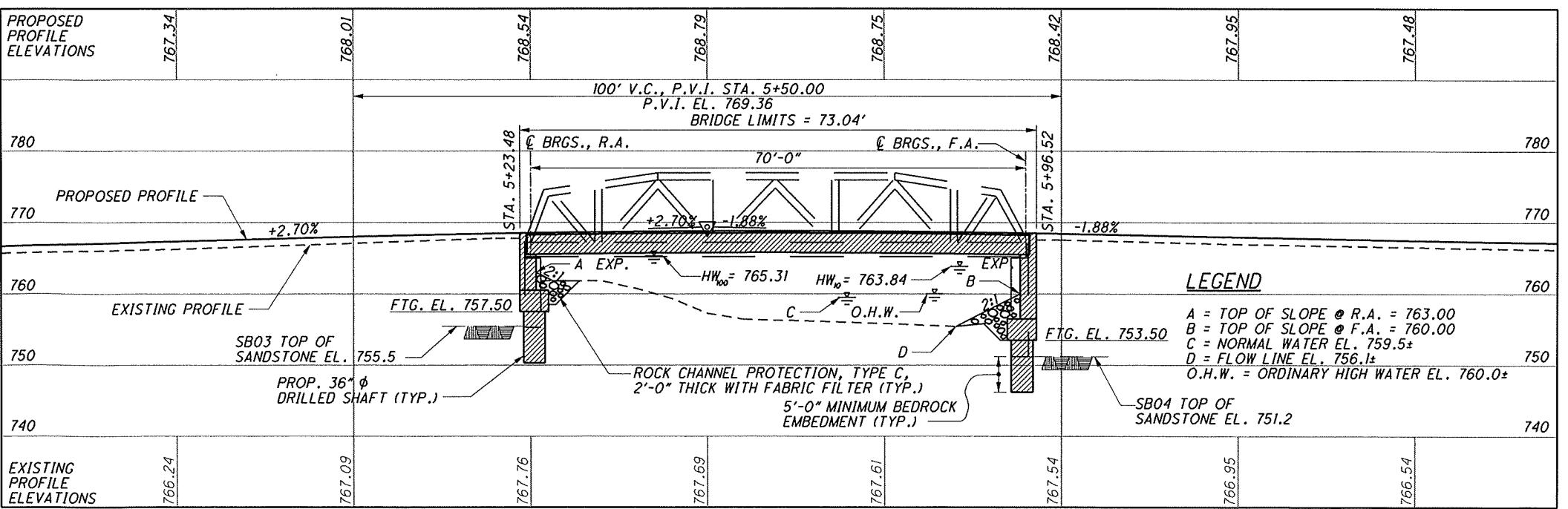
PLAN

NOTES

FOR ADDITIONAL DETAILS, SEE SCD GR-3,6



PLAN



PROFILE ALONG & CONSTRUCTION C.R. 82

NOTES

1. FOR ADDITIONAL BENCHMARK INFORMATION SEE ROADWAY PLAN SHEET 5/29.
2. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
3. FOR THIS PROJECT, PERMITS FOR SECTIONS 401 AND 404 OF THE CLEAN WATER ACT, ARE BASED ON THE LIMITS OF TEMPORARY CONSTRUCTION FILL PLACED IN "WATERS OF THE UNITED STATES" AS SHOWN BELOW. IF EITHER OF THE LIMITS PROVIDED ARE EXCEEDED, THEN A 404/401 PERMIT MODIFICATION WILL BE REQUIRED. IF A PERMIT MODIFICATION IS REQUIRED, REFER TO SUPPLEMENTAL SPECIFICATION 832.09 FOR THE APPLICATION REQUIREMENTS.

PLAN AREA OF TEMPORARY FILL = 0.14 ACRES
TOTAL VOLUME OF TEMPORARY FILL = 885 CU. YD.

SIGN TRAFFIC:
07 ADT = 260 2007 ADTT = 8
27 ADT = 387 2027 ADTT = 12

PERCENTAGE OF CORRECTIVE DISTRIBUTION = 55%

END

SOIL BORING LOCATION

HYDRAULIC DATA

WATERSHED AREA = 21.06 SQ. MILES
 T10 = 1937 CFS V (10) = 4.89 FT/S
 T100 = 3354 CFS V (100) = 6.77 FT/S
 STRUCTURE CLEARS THE 10 YEAR DESIGN HW BY 1.49 FEET

EXISTING STRUCTURE

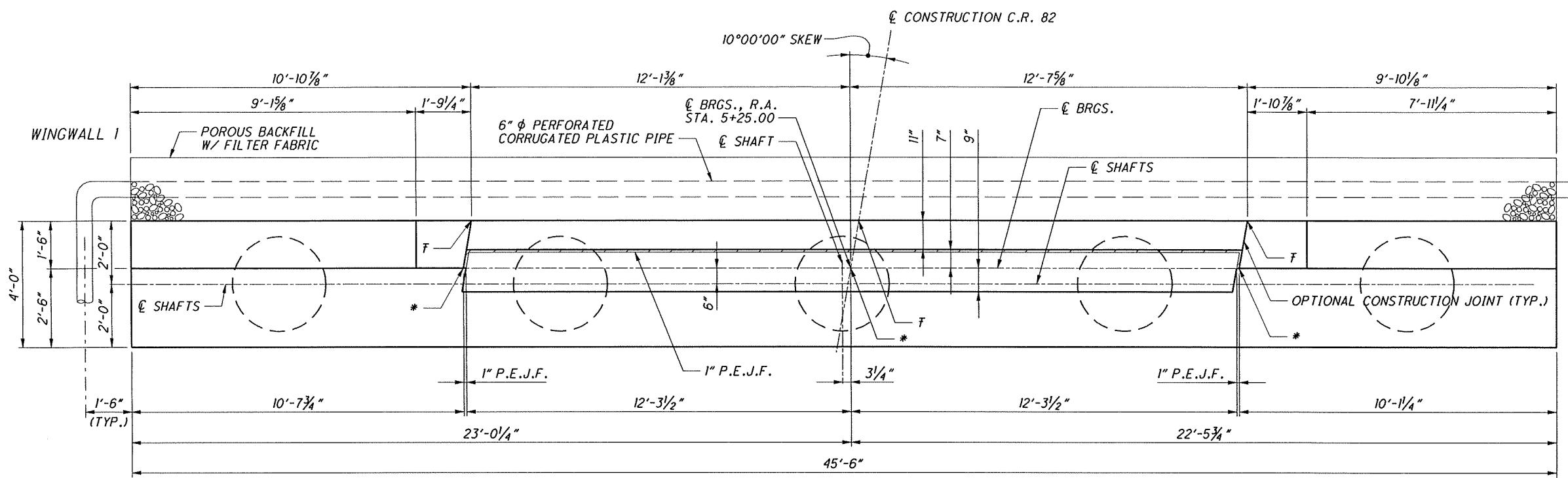
TYPE: SINGLE SPAN STEEL TRUSS BRIDGE SUPPORTED ON CONCRETE WALL ABUTMENTS
SPAN: 67'-0"± C/C BEARINGS
ROADWAY: 20'-0"± F/F GUARDRAIL
LOADING: H10
KEW: 6°00'00" R.F.
BEARING SURFACE: ASPHALT
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
STRUCTURAL FILE NUMBER: 6048285
DATE BUILT: 1952
DISPOSITION: TO BE REPLACED

PROPOSED STRUCTURE

TYPE: SINGLE SPAN NON-COMPOSITE PRESTRESSED CONCRETE
BOX BEAM BRIDGE SUPPORTED ON CONCRETE ABUTMENTS
WITH DRILLED SHAFTS EMBEDDED IN ROCK
SPAN: 70'-0" C/C BEARINGS
ROADWAY: 24'-0" (PLUS FIT-UP) F/F GUARDRAIL
LOADING: HS25 AND THE ALTERNATE MILITARY LOADING
SKEW: 10°00'00" R.F.
BEARING SURFACE: ASPHALT CONCRETE
FUTURE WEARING SURFACE LOADING: 60 PSF
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
SUPERELEVATION: 0.016
COORDINATES: LATITUDE 39°59'55" N
LONGITUDE 81°50'25" W

Wd
partners DESIGN AGENCY 7007 Discovery Blvd.
Dublin, Ohio 43017

SITE PLAN		MUSKINGUM COUNTY		DESIGNED STK	DRAWN STK	REVIEWED WHM	DATE 09-20-06
BRIDGE NO. MUS-CR82-0214 OVER SALT CREEK		STA. 5+23.48	STA. 5+96.52	CHECKED GDJ	REVISED	STRUCTURE FILE NUMBER 6048293	
MUS-C.R. 82-2.14	PID No. 24278	1	11	19	29		



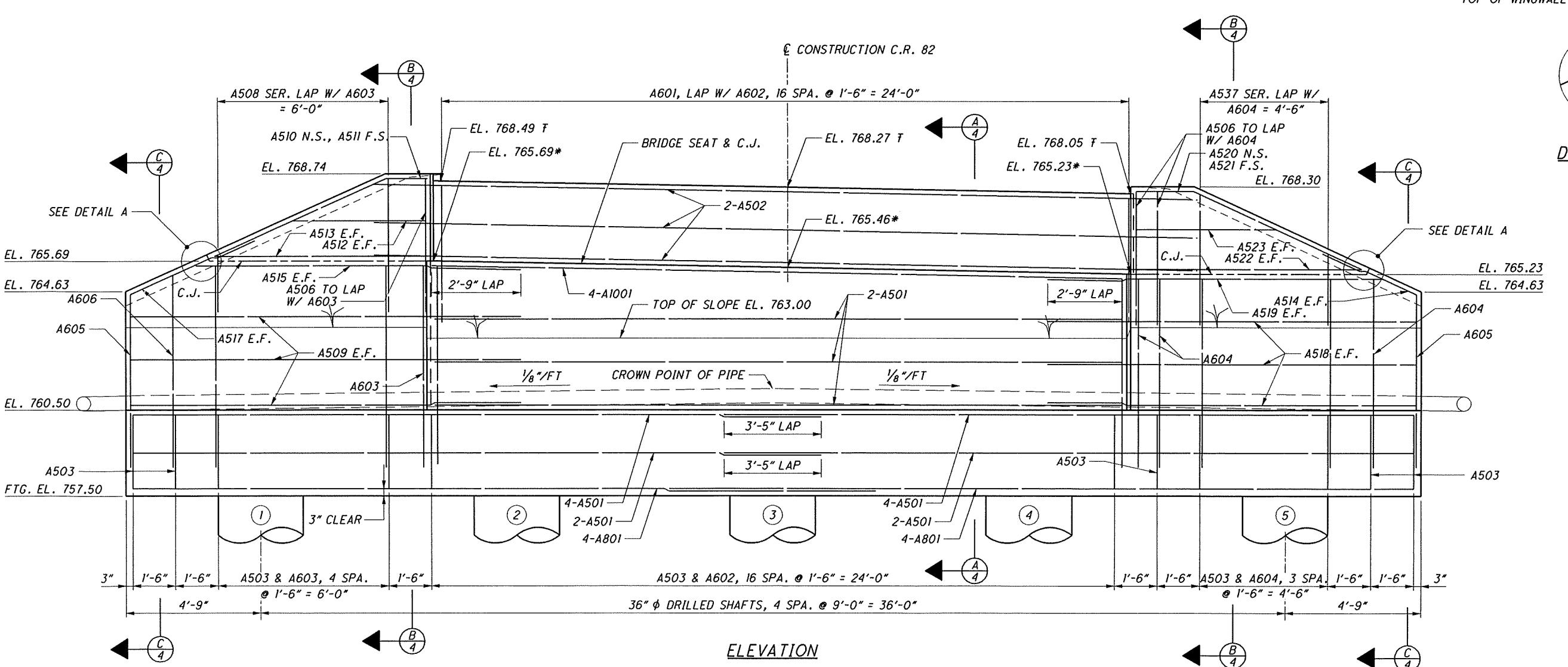
PLAN

LEGEND

F = ELEVATIONS TAKEN AT THE BACK FACE OF BACKWALL
*** = ELEVATIONS TAKEN AT THE CENTERLINE OF BEARING

NOTE

1. SEE SHEET **6/11** FOR NOTES AND ABBREVIATIONS LEGEND.



ELEVATION



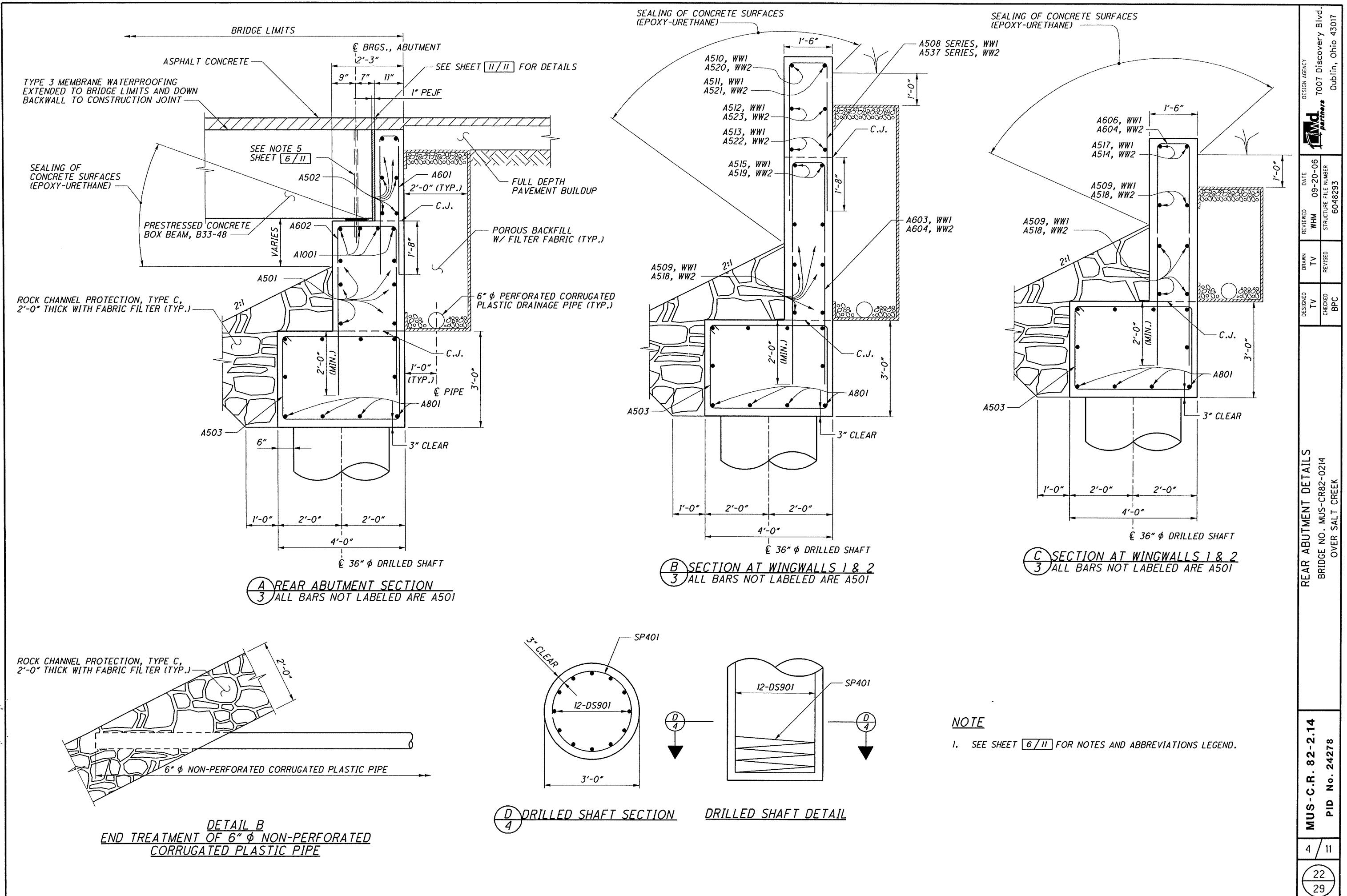
168

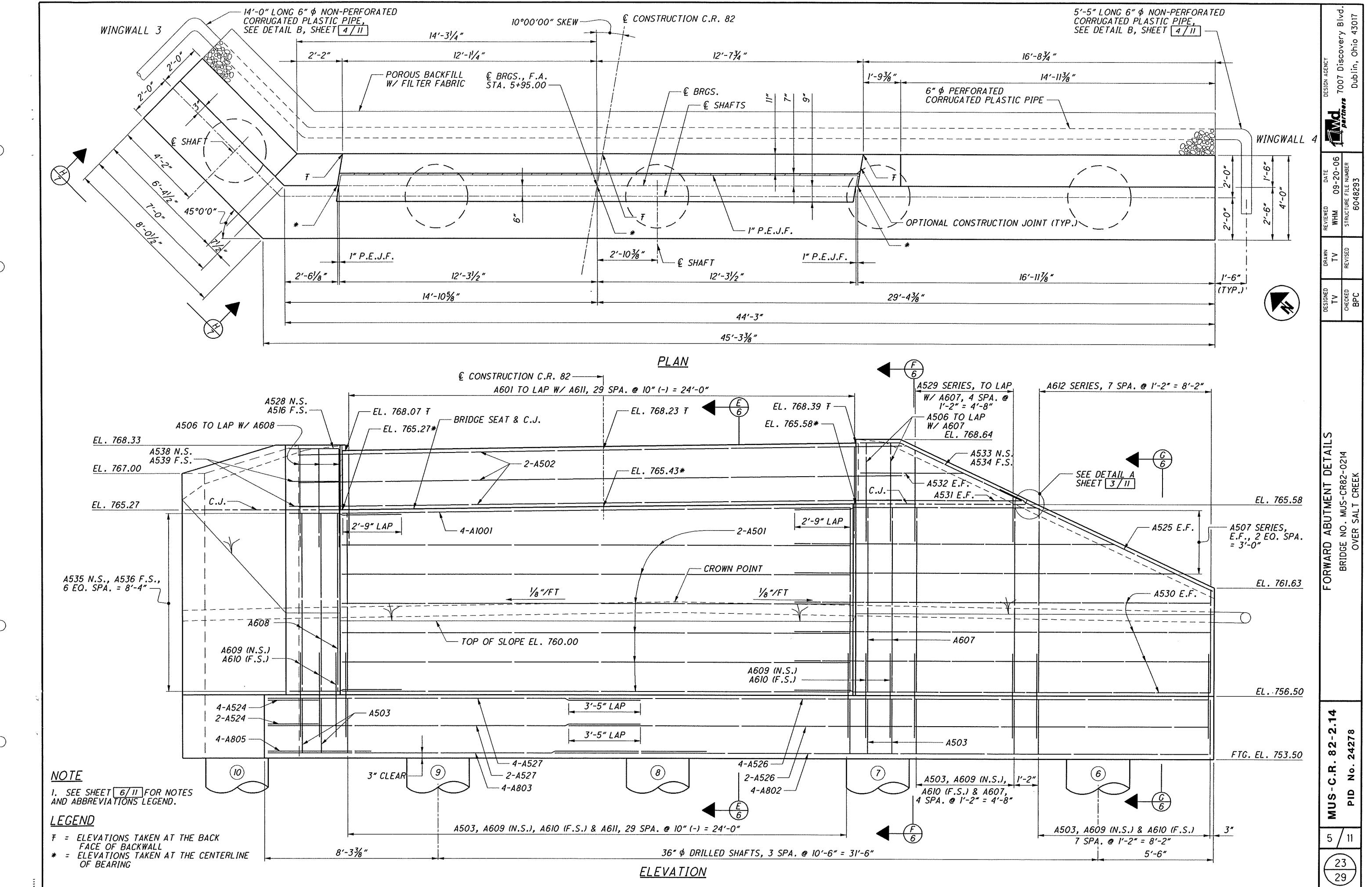
10007 Discovery Blvd.
SIGN AGENCY

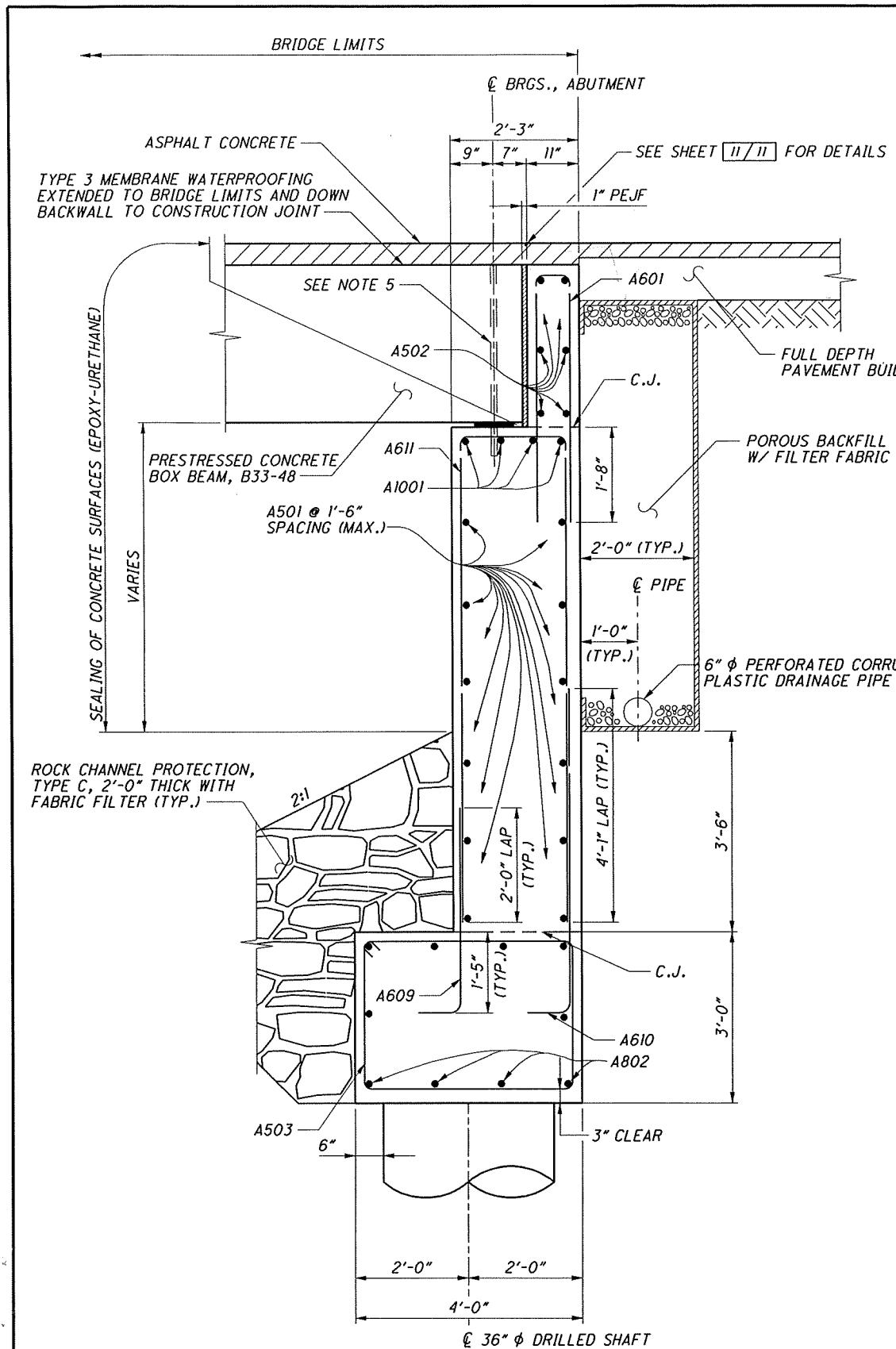
DESIGNED	DRAWN	REVIEWED	DATE
TV	TV	WHM	09-20-06
CHECKED	REVISED	STRUCTURE FILE NUMBER	6048293
BPC			

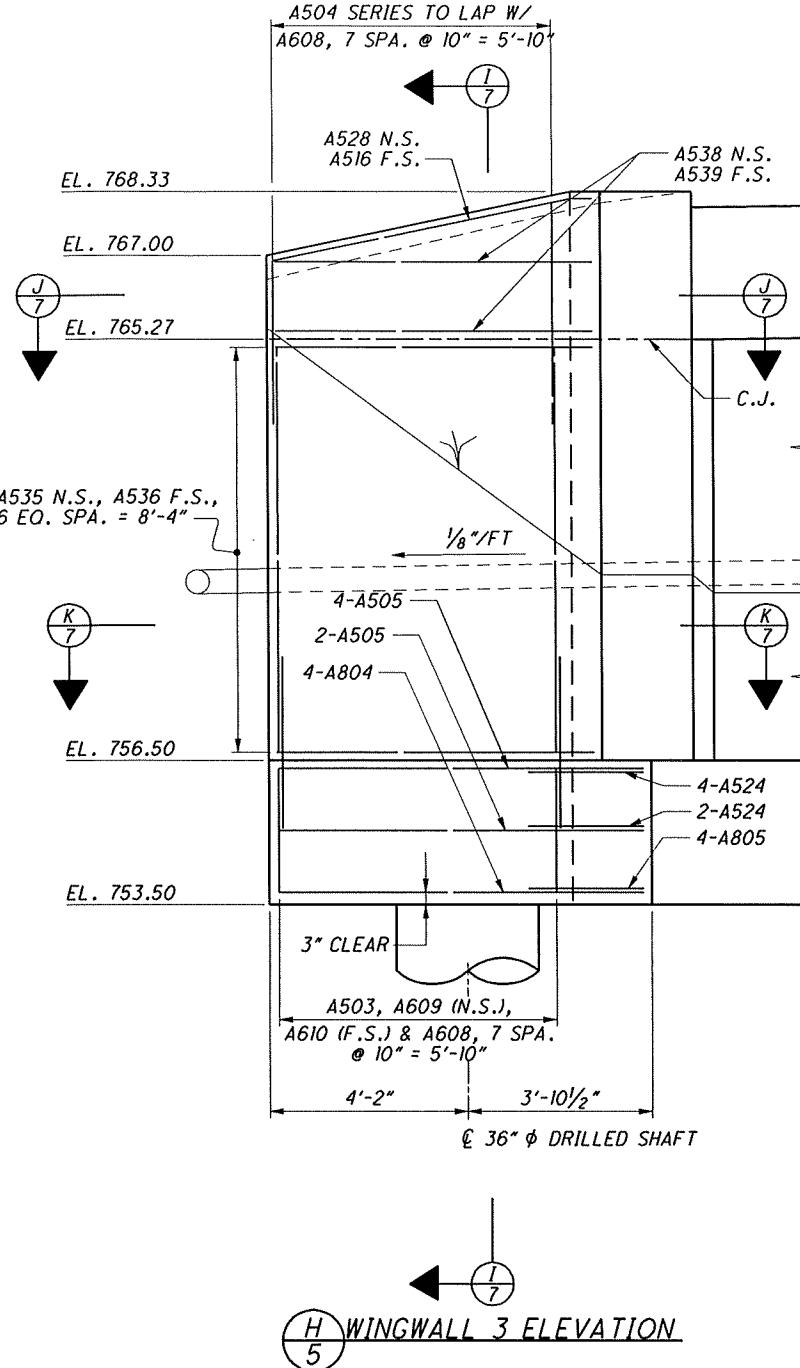
REAR ABUTMENT DETAILS
BRIDGE NO. MUS-CR82-0214
OVER SALT CREEK

US-C.R. 82-2.14
PID No. 24278



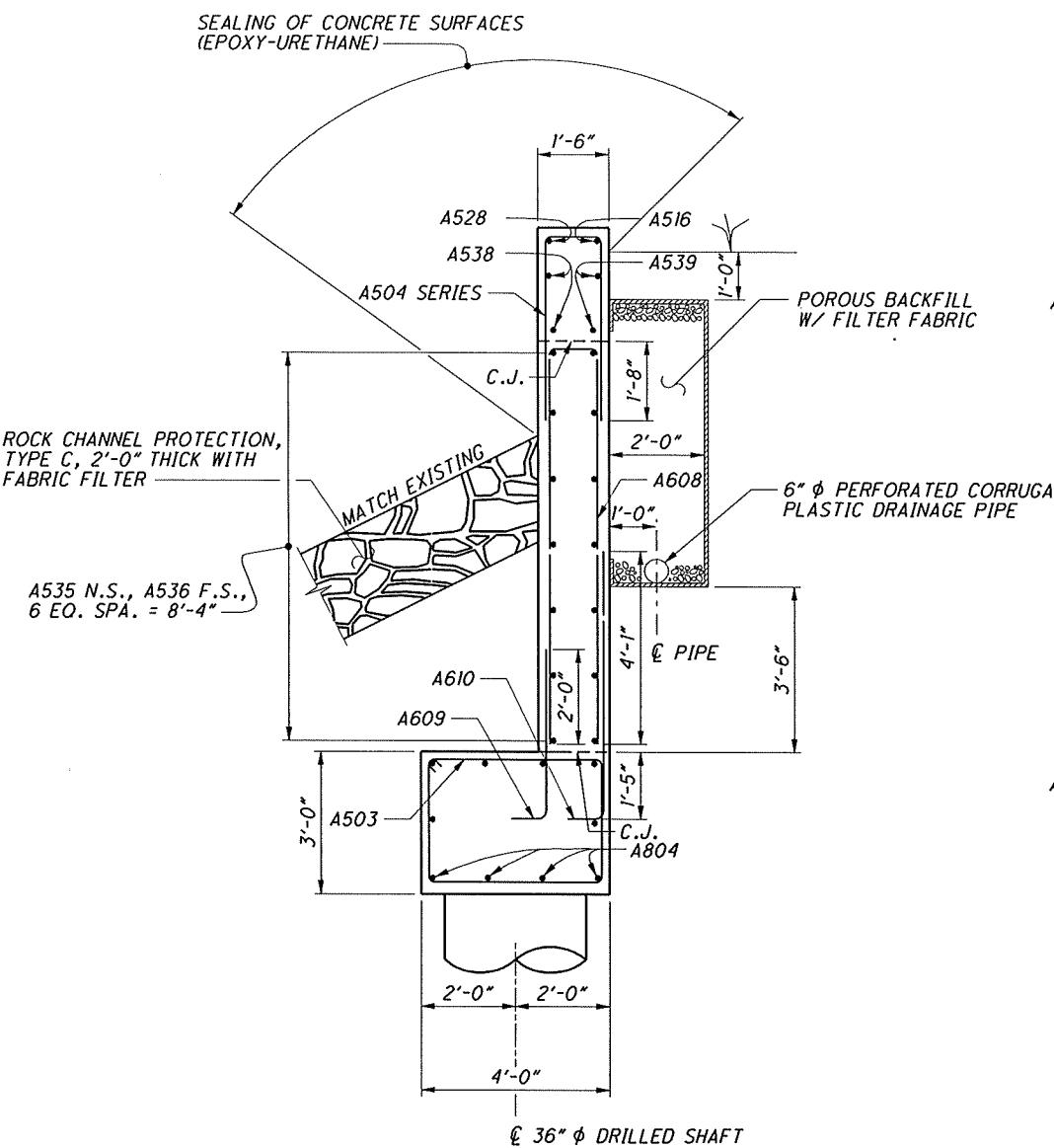




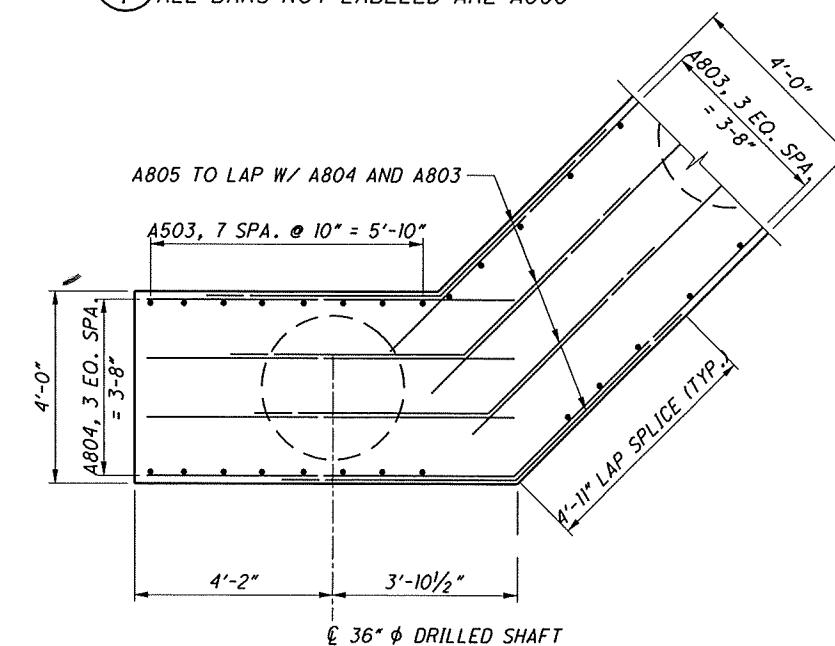


NOTE

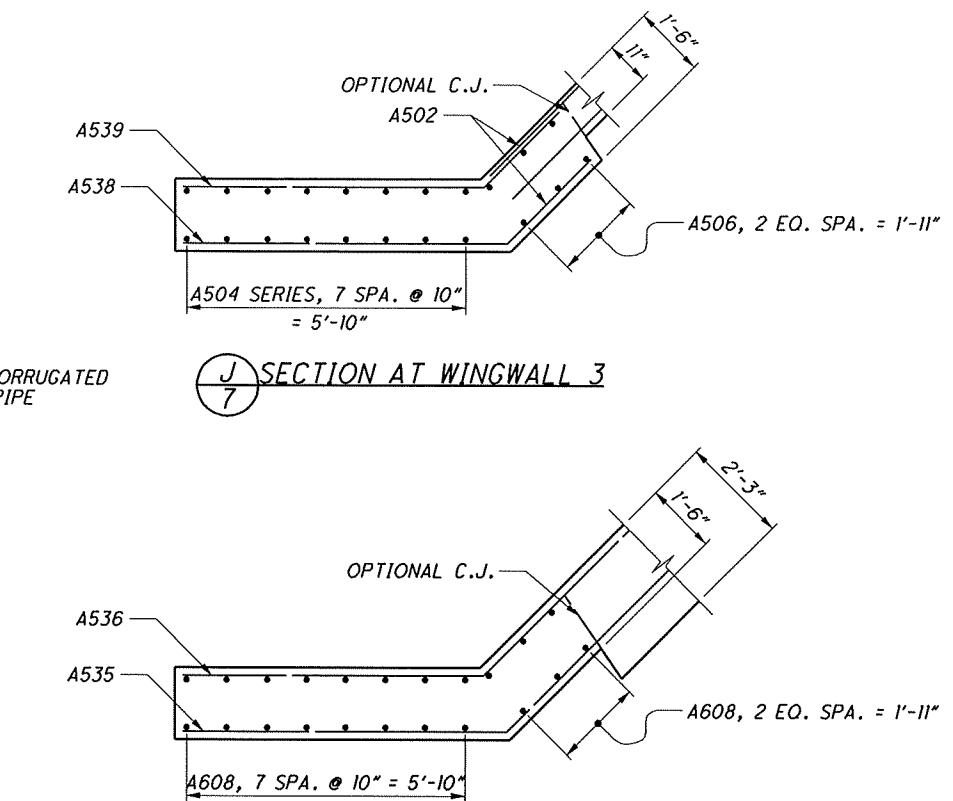
1. SEE SHEET **6/11** FOR NOTES AND ABBREVIATIONS LEGEND



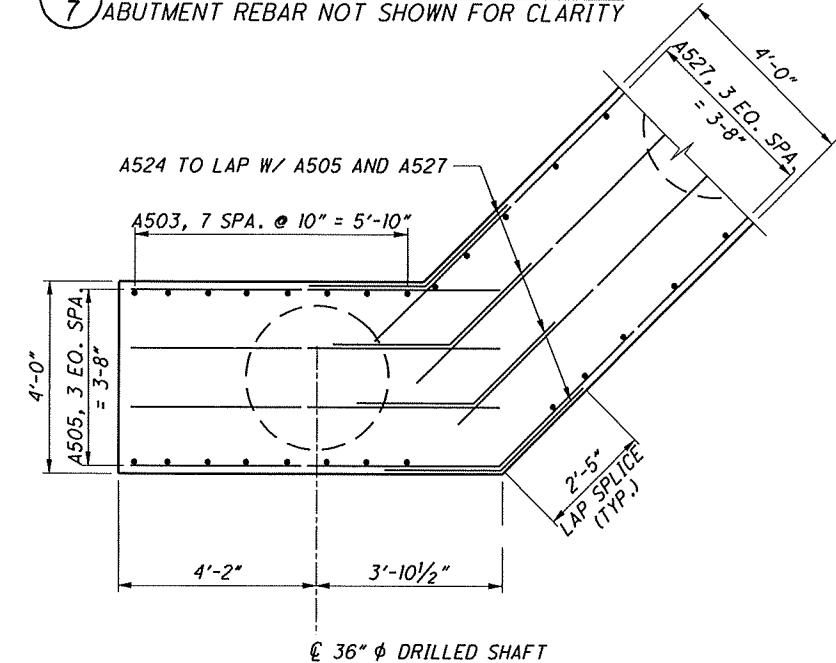
I SECTION AT WINGWALL 3
7 ALL BARS NOT LABELED ARE A50



PARTIAL FOOTING PLAN AT WINGWALL 3 (BOTTOM BARS)

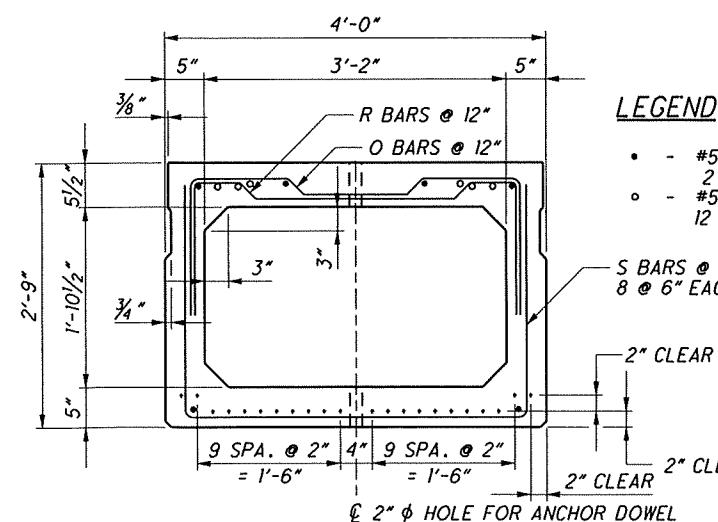
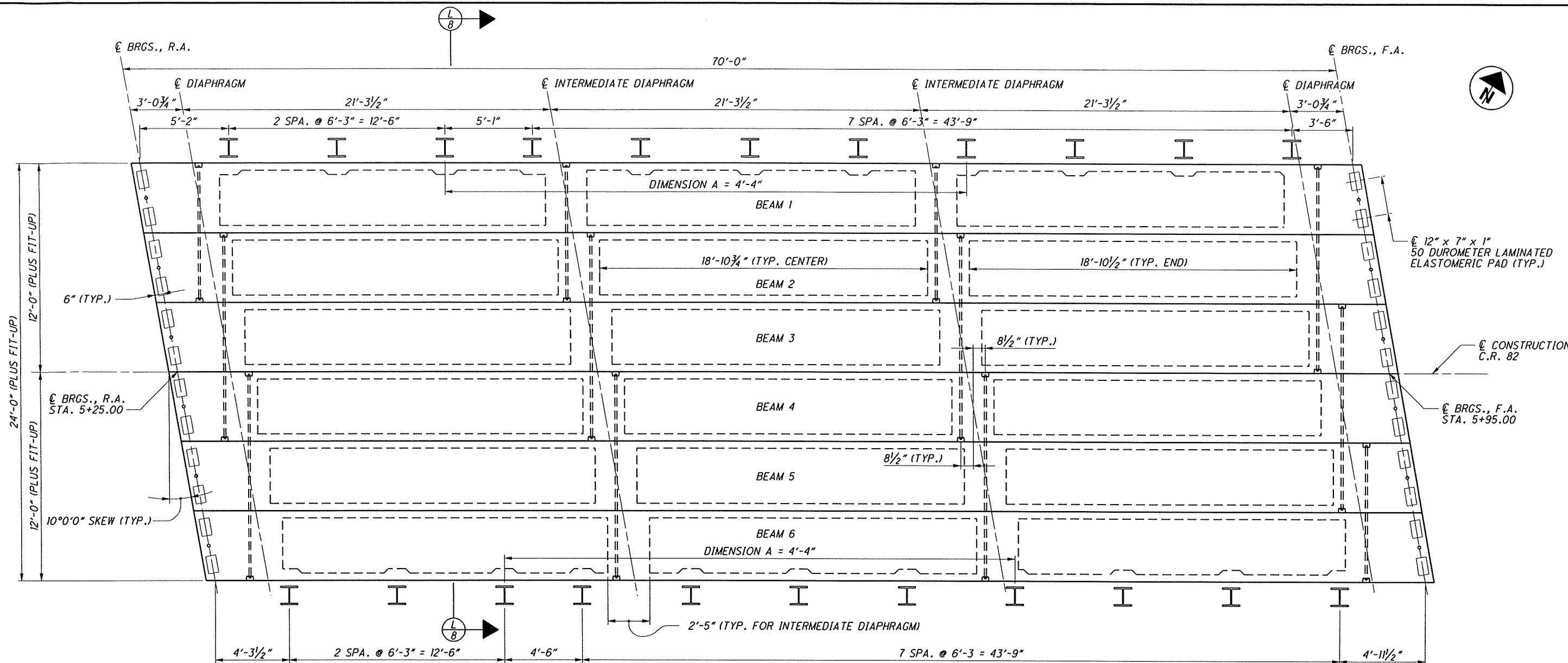


K SECTION AT WINGWALL 3
7 ABUTMENT REBAR NOT SHOWN FOR CLARITY



PARTIAL FOOTING PLAN AT WINGWALL 3 (TOP BARS)

FORWARD ABUTMENT DETAILS			
BRIDGE NO. MUS-CR82-0214			
OVER SALT CREEK			
7	MUS-C.R. 82-2.14	DESIGNED TV	DRAWN TV
11	PID No. 24278	CHECKED BPC	REVIEWED WHM
		STRUCTURE FILE NUMBER 6048293	DATE 09-20-06
		DESIGN AGENCY Wd partners 7007 Discovery Blvd. Dublin, Ohio 43017	

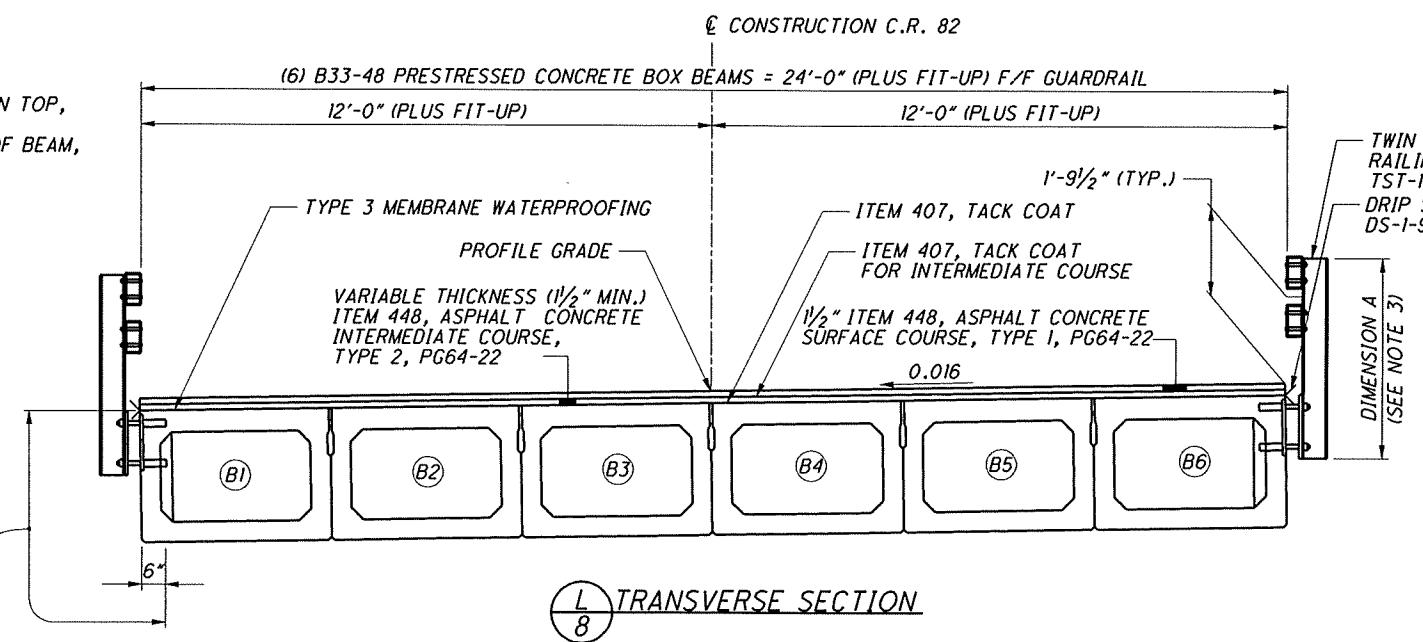


NOTES

1. FOR ADDITIONAL DETAILS SEE STD. DWG. PSBD-1-93.
2. REFER TO SHEET **9/11** FOR BEARING PAD DETAILS.
3. DIMENSION "A" SHALL BE EQUAL TO 4'-2", UNLESS SHOWN OTHERWISE IN THE PLANS. REFER TO STD. DWG. TST-1-9 FOR LOCATION OF ANCHOR BOLTS AND TUBING.

B33-48

FRAMING PLAN



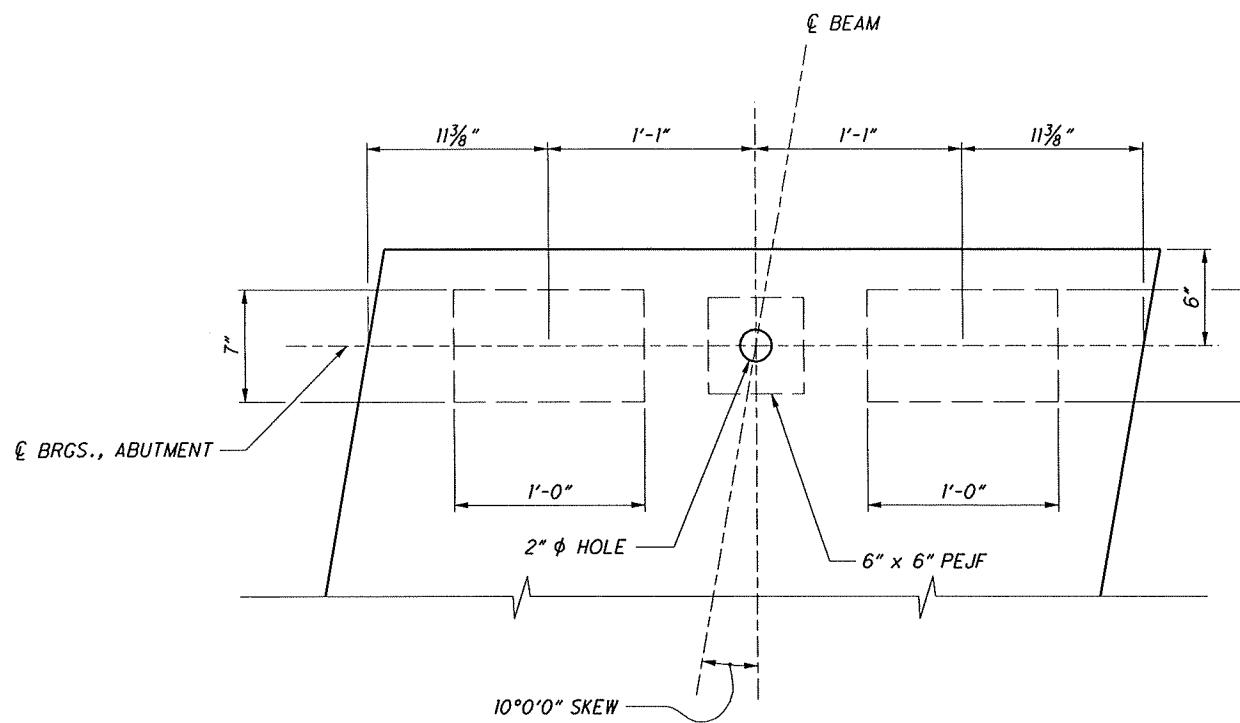
L/8 TRANSVERSE SECTION

*SEALING OF CONCRETE SURFACE
(EPOXY-URETHANE) (TYP.)*

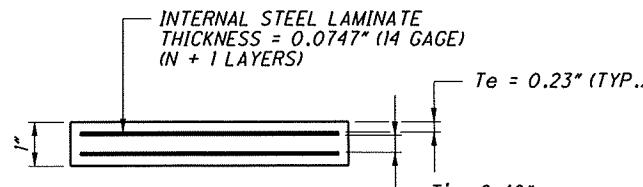
DESIGN AGENCY
7007 Discovery Blvd.
Dublin, Ohio 43017

SUPERSTRUCTURE DETAILS
BRIDGE NO. MUS-CR82-0214
OVER SALT CREEK

MUS-C.R. 82-2.14		SUPERSTRUCTURE DETAILS			
PID No. 24278		BRIDGE NO. MUS-CR82-0214		OVER SALT CREEK	
STRUCTURE DETAILS					
		DESIGNED TV	DRAWN TV	REVIEWED WHM	DATE 09-20-06
		CHECKED GDJ	REVISED		STRUCTURE FILE NUMBER 6046293

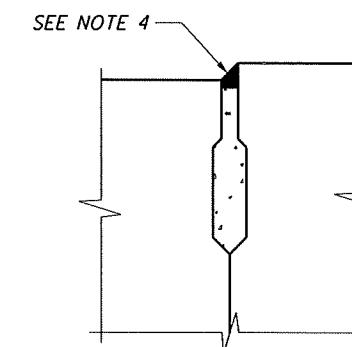


BEARING PAD LAYOUT (B33-48)



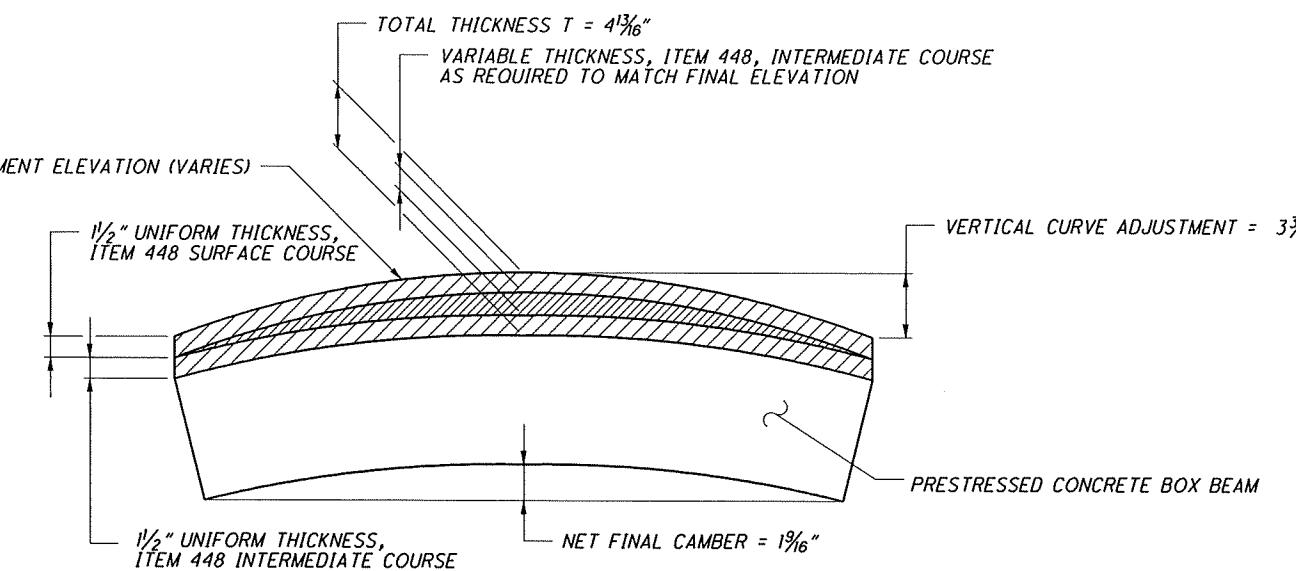
LAMINATED ELASTOMERIC BEARING PAD (B33-48)

12" x 7" x 1"
DEAD LOAD = 26.96 KIPS
LIVE LOAD = 13.00 KIPS
TOTAL LOAD = 39.96 KIPS
N = 1



SHEAR KEY DETAIL

FINAL PAVEMENT ELEVATION (VARIES)



ASPHALT THICKNESS DIAGRAM

NOTES

1. CALCULATED CAMBER AT THE TIME OF RELEASE IS 1 INCH.
CALCULATED CAMBER AT THE TIME OF PAVING IS 1 3/4 INCHES.
LONG TERM CAMBER IS 2 1/2 INCHES.
CALCULATED DEFLECTION DUE TO DEAD LOAD APPLIED AFTER THE BEAMS ARE SET (WEIGHT OF SURFACE COURSE, RAILINGS, SIDEWALKS, ETC.) IS 3/16 INCHES.
THE VERTICAL CURVE ADJUSTMENT TO THE TOPPING THICKNESS AT MIDSPAN IS 3 3/8 INCHES UPWARD.
THE THICKNESS OF THE INTERMEDIATE ASPHALT COURSE SHALL VARY FROM 1/2 INCHES AT EACH CENTERLINE OF BEAM BEARING TO 3 5/16 INCHES AT MIDSPAN.
2. ASPHALT CONCRETE SURFACE COURSE SHALL CONSIST OF A VARIABLE THICKNESS OF 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 AND A 1/2" THICKNESS OF 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22. PLACE THE 448 INTERMEDIATE COURSE IN TWO OPERATIONS. THE FIRST PORTION OF THE COURSE SHALL BE OF 1 1/2" UNIFORM THICKNESS. FEATHER THE SECOND PORTION OF THE COURSE TO PLACE THE SURFACE PARALLEL TO AND 1 1/2" BELOW FINAL PAVEMENT SURFACE ELEVATION.
3. THE ELASTOMERIC BEARINGS SHALL HAVE A HARDNESS OF 50 DUROMETER.
THE BEARINGS WERE DESIGNED UNDER DIVISION 1, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
4. SHEAR KEYS SHALL BE MORTARED TO 1 INCH BELOW A FINISHED PLANE BETWEEN THE TOP EDGE OF THE ADJACENT BEAMS WHERE VERTICAL OFFSET WITHIN TOLERANCE OCCURS.
THE FINAL 1 INCH SHALL BE FILLED WITH JOINT SEALER PER CMS 705.04. PAYMENT FOR ALL LABOR AND MATERIALS NECESSARY TO PERFORM THE ABOVE REQUIRED WORK SHALL BE INCLUDED WITH ITEM 515, PRESTRESSED CONCRETE NON-COMPOSITE BOX BEAM BRIDGE MEMBERS.

SUPERSTRUCTURE DETAILS
BRIDGE NO. MUS-CR82-0214
OVER SALT CREEK

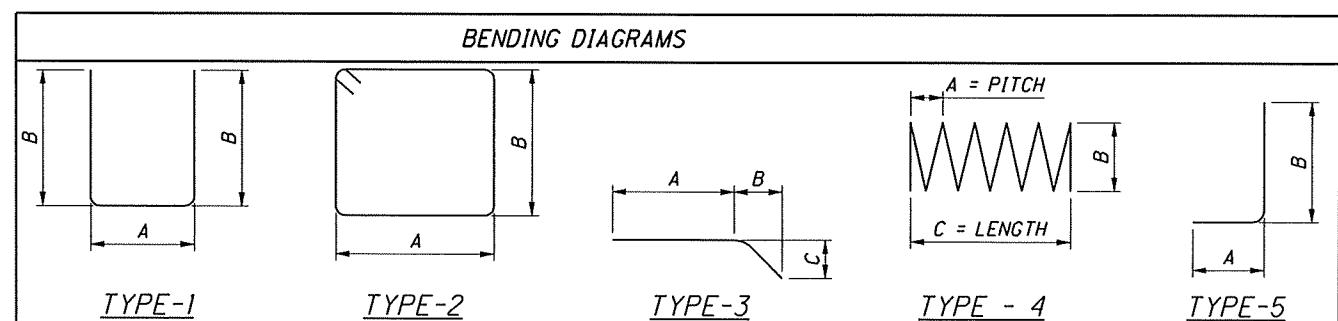
MUS-C.R. 82-2.14
PID No. 24278

DESIGN AGENCY
Md partners 7007 Discovery Blvd.
Dublin, Ohio 43017

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS			
	REAR	FWD	TOTAL				A	B	C	INC
ABUTMENTS										
A501	18	12	30	24'-3"	759	STR				
A502	6	6	12	28'-9"	360	STR				
A503	31	55	86	13'-1"	1174	2	3'-8"	2'-7"		
A504		1 SERIES OF 8	1 SERIES OF 8	7'-11" TO 10'-3"	76	1	1'-2"	3'-6" TO 4'-8"		4"
A505		6	6	7'-9"	49	STR				
A506	3	5	8	10'-1"	85	1	1'-2"	4'-7"		
A507		2 SERIES OF 3	2 SERIES OF 3	11'-7" TO 18'-2"	94	STR				3'-3 1/2"
A508	1 SERIES OF 5		1 SERIES OF 5	4'-11" TO 10'-3"	40	1	1'-2"	2'-0" TO 4'-8"		1'-4"
A509	6		6	13'-8"	86	STR				
A510	1		1	7'-11"	9	3	1'-4"	6'-0"	2'-9"	
A511	1		1	8'-1"	9	3	1'-6"	6'-0"	2'-9"	
A512	2		2	4'-8"	10	STR				
A513	2		2	7'-5"	16	STR				
A514	2		2	3'-7"	8	STR				
A515	2		2	11'-6"	24	STR				
*A516		1	1	8'-3"	9	3	2'-0"	6'-3"	1'-4"	
A517	2		2	4'-8"	10	STR				
A518	6		6	13'-0"	82	STR				
A519	2		2	11'-11"	25	STR				
A520	1		1	8'-5"	9	3	1'-11"	5'-11"	2'-9"	
A521	1		1	8'-2"	9	3	1'-8"	5'-11"	2'-9"	
A522	2		2	7'-9"	17	STR				
A523	2		2	4'-9"	10	STR				
A524		6	6	4'-10"	31	3	2'-5"	1'-8 1/2"	1'-8 1/2"	
A525		2	2	11'-6"	24	STR				
A526		6	6	30'-0"	188	STR				
A527		6	6	18'-6"	116	STR				
*A528		1	1	8'-5"	9	3	2'-2"	6'-3"	1'-4"	
A529		1 SERIES OF 5	1 SERIES OF 5	5'-3" TO 9'-7"	39	1	1'-2"	2'-2" TO 4'-4"		1'-1"
A530	8	8	16	19'-10"	166	STR				
A531	2	2	7'	7'-6"	16	STR				
A532	2	2	7'	4'-9"	10	STR				
A533	1	1	1	8'-3"	9	3	1'-9"	5'-10"	2'-9"	
A534	1	1	1	8'-1"	9	3	1'-7"	5'-10"	2'-9"	
A535	7	7	14	12'-3"	90	3	5'-7"	4'-9"	4'-9"	
A536	7	7	14	11'-6"	84	3	5'-4"	4'-5"	4'-5"	
A537	1 SERIES OF 4		1 SERIES OF 4	5'-11" TO 10'-1"	34	1	1'-2"	2'-6" TO 4'-7"		1'-4 1/2"
A538		2	2	8'-11"	19	3	6'-9"	1'-7"	1'-7"	
A539		2	2	8'-3"	18	3	6'-3"	1'-5"	1'-5"	
A601	17	30	47	8'-11"	630	1	7"	4'-4"		
A602	17		17	15'-9"	403	1	1'-11"	7'-1"		
A603	6		6	15'-0"	136	1	1'-2"	7'-1"		
A604	7		7	14'-0"	148	1	1'-2"	6'-7"		
A605	2		2	12'-10"	39	1	1'-2"	6'-0"		
A606	1		1	14'-4"	22	1	1'-2"	6'-9"		
A607		7	7	18'-4"	193	1	1'-2"	8'-9"		
				SUB-TOTAL	5403					

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS			
	REAR	FWD	TOTAL				A	B	C	INC
ABUTMENTS (CONTINUED)										
A608		11	11	17'-8"	292	1	1'-2"	8'-5"		
A609		56	56	4'-8"	393	5	12"	3'-10"		
A610		56	56	6'-9"	568	5	12"	5'-11"		
A611		30	30	18'-5"	830	1	1'-11"	8'-5"		
A612		1 SERIES OF 8	1 SERIES OF 8	10'-8" TO 18'-4"	175	1	1'-2"	4'-11" TO 8'-9"		1'-1"
A801	8		8	26'-2"	560	STR				
A802		4	4	30'-0"	321	STR				
A803		4	4	22'-4"	239	STR				
A804		4	4	7'-9"	83	STR				
A805		4	4	9'-10"	105	3	4'-11"	3'-6"	3'-6"	
A1001	4	4	8	24'-3"	835	STR				
				SUB-TOTAL	4401					
				ABUTMENT TOTAL	9804					

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS			
	REAR	FWD	TOTAL				A	B	C	INC
DRILLED SHAFTS (SEE NOTE 3)										
SP401	5	5	10	7'-8"	1210	4	4 1/2"	2'-6"	7'-8"	
DS901	60	60	120	6'-10"	7788	STR				
				DRILLED SHAFTS TOTAL	8998					



NOTES

- ALL REINFORCING STEEL IS TO BE EPOXY COATED.
- THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A501 IS A NO. 5 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED.
- PAYMENT FOR DRILLED SHAFT REINFORCING STEEL SHALL BE INCLUDED IN CORRESPONDING ITEMS 524.

LEGEND

* - FIELD BEND BARS AS NECESSARY

ITEM SPECIAL - POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

THIS ITEM WILL BE USED TO SEAL THE EXPANSION/CONTRACTION JOINTS AS PER THESE DETAILS AND THE MANUFACTURER'S REQUIREMENTS USING A POLYMER-MODIFIED ASPHALT SYSTEM. THE PRIME CONTRACTOR WILL OBTAIN SERVICES OF ONE OF THE FOLLOWING APPROVED APPLICATORS WHO WILL FURNISH AND INSTALL THE NEW BRIDGE EXPANSION JOINT SYSTEM AFTER ALL PAVING ON THE AFFECTED BRIDGE(S) HAS BEEN COMPLETED.

PRODUCT NAME	SUPPLIER	ADDRESS	PHONE NO.
THORMA-JOINT	DYNAMIC SURFACE APPLICATIONS, LTD	373 VILLAGE RD. PENNSDALE, PA 17756	(570) 546-6041
MATRIX 502	CRAFCO INC.	420 N. ROOSEVELT AVE. CHANDLER, AZ 85226	(800) 528-8242
EXPANDEX JOINT SYSTEM	WATSON-BOWMAN ACME	95 PINEVIEW DR. AMHERST, NY 14228	(716) 691-7566
APJ ASPHALTIC PLUG EXPANSION JOINT	WYOMING EQUIPMENT SALES	281 SIXTH STREET P.O. BOX 287 WEST WYOMING, PA 18644	(570) 693-2810

MATERIALS:

BRIDGING PLATE:

MILD STEEL $\frac{1}{8}$ " OR $\frac{1}{4}$ " THICK PLATE, 8" WIDE OR 18 GAUGE ALUMINUM, 8" WIDE.

BINDER:

TYPE: POLYMER MODIFIED ASPHALT
SOFTENING POINT: 180 DEGREES F. MIN.
FLOW: 3 mm. MAX. AT 140 DEGREES F.
PENETRATION: 9 mm. MAX. AT 77 DEGREES F.
1 mm. MIN. AT 0 DEGREES F.
DUCTILITY: ASTM D 3407
RESILIENCE: 40 cm. MIN. ASTM D 113
TENSILE ADHESION: 60% MIN. AT 77 DEGREES F.
SPECIFIC GRAVITY: 700% MIN.
POURING TEMP: 1.10 * 0.05
350 - 390 DEGREES F.

AGGREGATE:

TYPE: CRUSHED, DOUBLE WASHED, AND DRIED GRANITE OR BASALT

GRADATION: THE GRADATION OF THE AGGREGATE VARIES BY MANUFACTURER AND WILL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM BEING USED ON THIS PROJECT.

BACKER ROD:

THE BACKER SHALL BE A CLOSED CELL FOAM EXPANSION JOINT FILLER CAPABLE OF WITHSTANDING THE PLACEMENT TEMPERATURE OF THE POLYMER MODIFIED ASPHALT.

NOTE: PRIOR TO PLACEMENT OF ANY PORTION OF THE JOINT SYSTEM, THE PROJECT ENGINEER MUST HAVE CERTIFIED TEST DATA MEETING ALL THE MINIMUM REQUIREMENTS OF ALL THE MATERIALS OF THE JOINT SYSTEM.

INSTALLATION PROCEDURES:

SAWING AND SURFACE PREPARATION:

AFTER ALL PAVING OPERATIONS ARE COMPLETE, THE OVERLAY IS TO BE TRANSVERSELY SAW CUT FULL DEPTH NO LESS THAN TWO INCHES DEEP (20" CENTERED OVER JOINT OPENING, UNLESS OTHERWISE NOTED). REMOVE ALL MATERIAL, INCLUDING WATER-PROOFING MATERIAL, BETWEEN SAW CUTS. THOROUGHLY CLEAN AND DRY EXPOSED CONCRETE, STEEL, AND CUT SURFACES USING COMPRESSED AIR AND A HOT COMPRESSED AIR (HCA) LANCE. THE LANCE MUST PRODUCE A FLAME RETARDED AIR STREAM TEMPERATURE OF 3000 DEGREES F. AT VELOCITY OF 3,000 FEET PER SECOND WITH 15 PSIG CHAMBER PRESSURE. IF THERE IS AN INTERRUPTION DUE TO WEATHER OR OTHER CAUSES, THE OPERATION WILL BE REPEATED WITH THE HCA LANCE IMMEDIATELY BEFORE THE BINDER COAT OPERATION. ALSO, 6 INCHES OF THE ROAD SURFACE ON EITHER SIDE OF THE JOINT WILL BE DRIED SO THAT A SUITABLE SURFACE FOR BITUMEN ADHESION IS OBTAINED.

SEALING OF EXPANSION JOINT:

THE EXPANSION JOINT GAP IS TO BE SEALED AND A BRIDGING PLATE CENTERED ALONG IT. A VERY NARROW GAP WILL BE SEALED BY POURING HOT BINDER INTO THE GAP. GAPS OF $\frac{1}{8}$ " OR MORE WILL FIRST BE FILLED WITH AN APPROPRIATELY SIZED BACKER ROD. THE BACKER ROD WILL BE INSTALLED SO THAT IT IS BETWEEN $\frac{1}{8}$ " AND $\frac{1}{6}$ " BELOW THE TOP OF THE EXISTING GAP. THE GAP WILL THEN BE FILLED WITH BINDER.

BOND BREAKER:

SPREAD BINDER OVER SURFACE AREA WHERE THE METAL BRIDGING PLATE WILL BE PLACED. CENTER THE BRIDGING PLATE OVER THE EXISTING JOINT AND BED INTO THE HOT BINDER. BUTT JOINT THE BRIDGING PLATES TO ACCOMMODATE THE ENTIRE JOINT LENGTH. SPIKE HOLES WILL BE DRILLED AT 1 FOOT INTERVALS ALONG THE LONGITUDINAL CENTERLINE OF THE PLATES. SECURE BRIDGING PLATE WITH NAILS OR SPIKES. SEAL BUTT JOINTS WITH HOT BINDER AND ALLOW BINDER TO SETUP BEFORE NEXT OPERATION. WHEN ALUMINUM BRIDGING PLATES ARE USED, ONLY THE BINDER IS REQUIRED TO SECURE THE INDIVIDUAL PLATES.

BINDER COAT:

SEAL ALL PREPARED, EXPOSED SURFACES OF THE JOINT WITH BINDER. POUR THE HOT BINDER OVER THE FLOOR AREA OF THE JOINT AND SPREAD TO COAT ALL EXPOSED SURFACES. THE BINDER WILL BE A MINIMUM OF $\frac{1}{32}$ " THICK ON THE BOTTOM OF THE JOINT CAVITY, WITH POOLS OF GREATER THICKNESS WHERE SURFACE IRREGULARITIES EXIST. THE BINDER APPLICATION TEMPERATURE WILL BE BETWEEN 350 AND 390 DEGREES F. THE BINDER WILL NOT BE ALLOWED TO BE HEATED ABOVE 410 DEGREES F. NOR ALLOWED TO EXCEED 390 DEGREES F. FOR MORE THAN 1 HOUR. A DOUBLE JACKETED OIL METER WILL BE USED TO HEAT THE BINDER. THE MELTER WILL BE EQUIPPED WITH A CONTINUOUS AGITATION SYSTEM, TEMPERATURE CONTROLS, AND A CALIBRATED THERMOMETER. ALSO A SYSTEM FOR ACCURATELY MEASURING THE WEIGHTS OF THE BINDER AND THE AGGREGATE WILL BE REQUIRED.

BUILD-UP OF JOINT LAYERS:

AGGREGATE PREPARATION:

HEAT THE AGGREGATE TO A TEMPERATURE OF 275 TO 325 DEGREES F., WITH A SUITABLE ROTATING DRUM WITH ATTACHED HEAT SOURCE OR A HOT COMPRESSED AIR LANCE, TO REMOVE DUST AND MOISTURE.

AGGREGATE PROPORTION AND LAYER THICKNESS:

MIX THE AGGREGATE WITH THE BINDER SUCH THAT THE MINIMUM AGGREGATE CONTENT BY WEIGHT WILL BE 68%. THE HEATED AGGREGATE AND BINDER WILL BE COMBINED IN LAYERS, UNLESS PATENTED INSTALLATION REQUIRES DIFFERENTLY, NOT LESS THAN $\frac{1}{4}$ OF AN INCH NOR EXCEEDING $2\frac{1}{2}$ INCHES. THE THICKNESS OF EACH LAYER CAN BE VARIED WITHIN THESE LIMITS, TO ACHIEVE THE REQUIRED JOINT THICKNESS (MIN. 2 INCHES). THE OBJECTIVE IS TO COAT EACH STONE AND FILL THE Voids WHILE AVOIDING AN EXCESS OF BINDER. THIS WILL ACHIEVE THE MAXIMUM CONTENT OF STONE CONSISTENT WITH ALL STONES BEING COATED WITH BINDER. RAKE THE MIXTURE TO MIX AND LEVEL.

THE TOP LAYER THICKNESS WILL VARY BETWEEN $\frac{1}{2}$ INCH AND ONE (1) INCH. IN PREPARING THE TOP LAYER, THE RATION OF AGGREGATE TO BINDER WILL BE APPROXIMATELY 6:1 BY WEIGHT. OVERFILL THE TOP LAYER AND COMPACT TO THE LEVEL OF THE ADJACENT SURFACES USING A ROLLER OR VIBRATORY PLATE COMPACTOR. IMMEDIATELY AFTER COMPLETION OF THE COMPACTION, POUR SUFFICIENT BINDER OVER THE JOINT TO FILL THE SURFACE VOIDS AND COAT THE SURFACE STONE. DUST THE FINISHED JOINT WITH A FINE, DRY AGGREGATE TO PREVENT TACKINESS.

MAINTENANCE OF TRAFFIC:

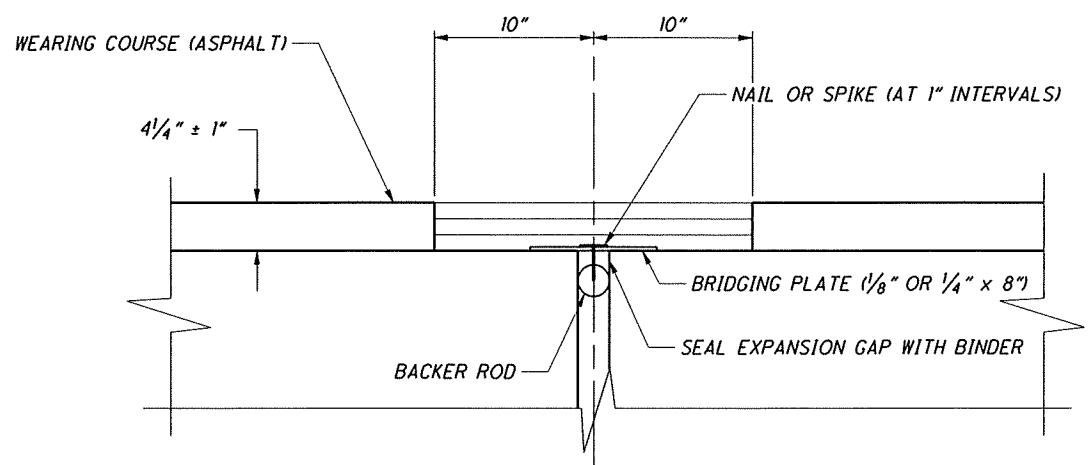
IF NECESSARY TO FACILITATE TRAFFIC MAINTENANCE, THE JOINT WILL BE INSTALLED IN TWO (2) HALF-WIDTH PHASES. DURING PHASE 1 APPROXIMATELY HALF OF THE TOTAL JOINT WILL BE INSTALLED. DURING PHASE 2, A MINIMUM OF TWO (2) INCHES OF THE PHASE 1 JOINT WILL BE REMOVED, AT OR NEAR THE CENTERLINE, WITH THE REMAINDER OF THE JOINT INSTALLED. IN ALL CASES, OPERATIONS WILL BE SCHEDULED SO THAT ALL LANES CAN BE OPEN TO TRAFFIC DURING ALL NON-WORKING HOURS.

TESTING:

CERTIFICATION WILL BE SUPPLIED FOR EACH PROJECT SHOWING BINDER COMPLIANCE WITH REQUIRED PROPERTIES. A ONE QUART SAMPLE OF BINDER WILL BE RETRIEVED FROM EACH BRIDGE FOR FURTHER TESTING BY THE O.D.O.T. OFFICE OF MATERIALS MANAGEMENT.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT:

THE DEPARTMENT WILL MEASURE THE JOINT BY THE NUMBER OF FEET AND WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE AS: ITEM SPECIAL, FEET, POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM.



TYPICAL PRESTRESSED BOX BEAM JOINT

MUS-C.R. 82-2-14	PID No. 24278	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM			DRAWN BY C	REVIEWED BY C	DATE 05-25-06	STRUCTURE FILE NUMBER 6048293
		DESIGNED BY C	TV CHECKED BY C	WHM REVISED BY C				
BRIDGE NO. MUS-CR82-0214	OVER SALT CREEK							

DESIGN AGENCY
partners 7007 Discovery Blvd.
Dublin, Ohio 43029