# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## TUS-250-(26.03) TUSCARAWAS COUNTY

UNION TOWNSHIP BR. NO. TUS-250-2603

CONVENIONAL SIGNS	CONV	ENTI	ONAL	SIG	NS
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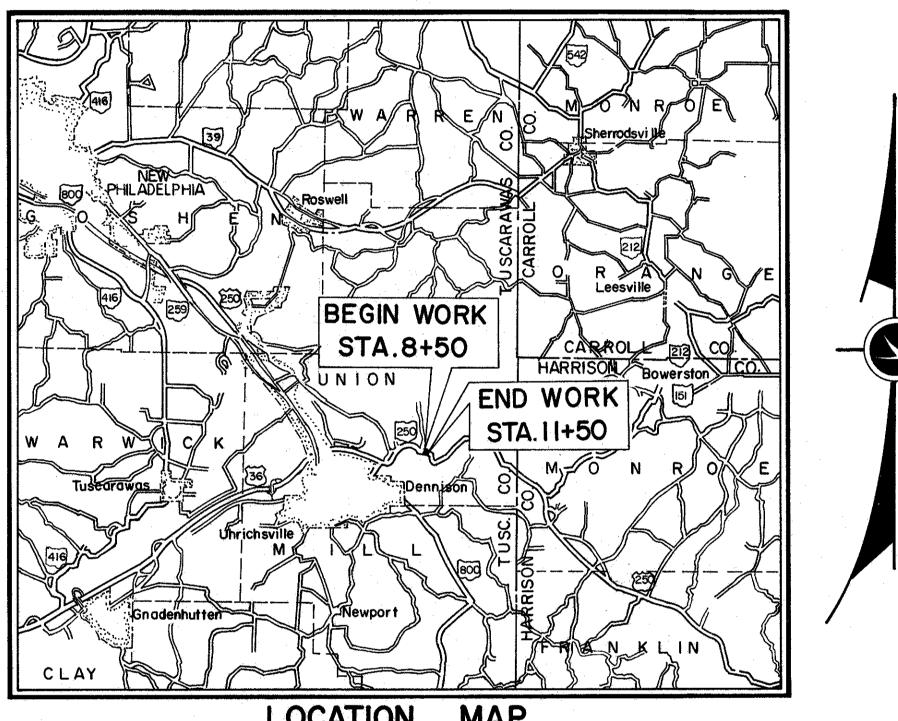
County Line —————————————	Limited Access (only)	LA
Township Line—————————	Right of Way (only)	RW
Section Line	Limited Access & Right of Way-	LA & RW
Corporation Line Transport or Transport	Existing Right of Way — — —	
Fence Line (existing) -×	Property Line — PL (in existing	fence)-x <del></del>
Fence Line (existing)—×——×—(proposed)—×——×— Center Line ————————————————————————————————————	Railroad —	or
Trees (11), Stumps A, (to be removed) XX	Guardrail (existing) (pro	posed) • •
Utility Poles: Telephone $\sigma$ Power $\sigma$ Light $\sigma$		

#### INDEX OF SHEETS

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PLAN & PROFILE	3
CROSS SECTIONS	4-5
SITE PLAN	6
DRAINAGE SECTION	7
TYPICAL SECTION	7-8

#### LINE DATA

Begin Work	Sta. 8 + 50
End Work	Sta. II + 50
Net Length of Work	300 Lin. Ft. or 0.06 Miles



	SCALE	IN	MILES		
Ò	2	4	6	2	8

Other Rodds	<del></del>		
	SCALES		
Plan			
Profile:Horizontal	•	Vertical	
Cross Section: Horizontal		Vertical	

	SUPPL	EMENTAL	SPECIFICATIONS	
10	0/	1-3-77		
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<del>.,</del>			<u> </u>	
	<u> </u>			

### 1981 SPECIFICATIONS

TUS-250-(26.03)

BR-67-80

FEDERAL PROJECT

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and provisions for the maintenance and safety of traffic will be as set forth in these plans.

Approved	Vistellini. Show						
Date <u>/2-23-88</u>	≥District	Deputy	Director	of	Tran	sportat	ion
•							
alian di kacamatan						and the second	

Approved <u>Pabert B</u> <u>Ferfer</u>

Date <u>12-14-81</u> Engineer, Bureau of Bridges and Structural Design

	The date of the Alexander	
Date	_ Chief Engineer,	Operations

Approved <u>Paint of Mein</u>
Date 12:21:81 Director, Department of Transportation

GR-1 12-6-76 BP-5 7-16-8/ F-2 5-1-76

GR-2B 12-6-76 HW-4A 4-1-80

GR-4 12-6-76 MC-3 6-1-73

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

Plan Prepared By:

LD0300 Rev. 9-3-75

SEAL

## GENERAL NOTES

### WORK REQUIRED:

- . Excavate beneath existing structure and place bedding for conduit.
- 2. Install conduit within existing structure.
- 3. Build headwalls.
- 4. Báckfill around pipe, as per plan.
- 5. Remove portions of structure, as per plan.
- 6. Complete embankment work.
- 7. Install guardrail and seed and mulch.

#### **REFERENCE:** Shall be made to Standard Drawings.

GR - I	Dated 12-6-76	BP-5	Dated	4-16-79
GR -2B	Dated 12-6-76	HW-4A	Dated	4- 1-80
GR -4	Dated 12-6-76	MC-3	Dated	6-1-73
		F-2		5-1-76

#### PORTIONS OF EXISTING STRUCTURE REMOVED:

Portions of abutment wingwalls that will interfere with placement of The remaining portions of culvert headwalls shall be removed. wingwalls shall be removed to a minimum of one foot below the proposed ground line.

Also, the bridge railing shall be removed to the curb line. The steel beam and railing on the left side of the structure shall be stored for removal by State forces. All of the above shall be included with the lump sum price bid for Item 202, Portions of Structure Removed.

#### ITEM 603- 16'-7"x 10'-1" CONDUIT, TYPE A, 707.03, AS PER PLAN:

This work shall consist of constructing a 16'-7"x 10'-1" conduit within an existing concrete structure in accordance with 603, this note, and in reasonably close conformity with the line and grade shown on the plans.

The conduit may be assembled and then maneuvered through the existing structure in such a manner as not to damage the roof of the existing structure, the pavement above, or the conduit; or the conduit plates may be assembled inside the existing structure. The class B bedding shall have a thickness of 24" below the bottom of the pipe and will not be required to extend up around the pipe.

Payment for all labor, tools, materials and incidentals necessary to complete the above work shall be included in the unit price bid for Item 603, 16'-7"x10'-1" conduit, Type A, 707.03, as per plan.

#### ITEM SPECIAL-FILLING INSIDE EXISTING STRUCTURE:

This work shall consist of filling any voids inside the existing structure by the installation of Elastizell low density concrete fill or an approved equal. The low density concrete fill shall extend through the existing structure from headwall to headwall and to within one foot of the proposed grade lines for a width on each side of the conduit of 4 feet or against the existing structure. The remaining fill shall be placed under Item 203.

Portland cement, mixing water and admixtures shall meet requirements under Item 499. The foaming agent shall have been tested under ASTM C796. Mix design, mixing and placing shall be as per manufacturers recommendations. Specimens shall be tested in accordance

with ASTM C495 except that test specimens shall not be oven dried prior to compressive testing. Minimum compressive strength shall be 40 p.s.i.

Payment for the above including furnishing and placing all materials and all labor, equipment and incidentals necessary to complete the Item shall be included in the lump sum price bid for Item Special-Filling Inside Existing Structure.

UTILITIES: All expenses involved in relocating any affected utilities shall be borne by the Owners. The Contractor and Owners are requested to cooperate by arranging any work in a manner that inconvenience to either will be held to a minimum. Following are Owners known to be within the work limits:

Tennesee Gas Pipline Company Attn: W.A. Richey, Jr., East Dist. Supt. R.D. # I Box 39 Carrollton, Ohio 44615

The Ohio Bell Telephone Company 150 E. Gay St. ... Columbus Ohio 43215

MAINTENANCE OF TRAFFIC: The Contractor shall maintain traffic at all times in accordance with the requirements of Item 614. One way traffic as required by the work shall be held to a minimum and shall only occur during working hours. During non-working hours both lanes of U.S. 250 shall be open to traffic. The Contractor may utilize the shoulders to maintain one-way traffic. Therefore, quantities for Item 616 have been included.

All signs, drums, barricades and flagmen shall be utilized in conformance with the Ohio Manual of Uniform Traffic Control Devices for Streets and Highways, current edition, latest revision. Payment for all of the above except Item 411 and 616 shall be included in the price bid for Item 614, Maintaining Traffic.

FIELD OFFICE: The Contractor shall provide a suitable field office having a minimum of 150 sq.ft. of floor space and in addition to the requirements of Item 619, he shall provide and maintain sanitary provisions as per 107.06. All of the above is included in the lump sum price bid for Item 624, Mobilization, as per plan.

RIGHT OF WAY: All work shall be performed within the existing right of way and areas indicated on the plan to be covered by the maintenance work agreement(s) signed with respective property owners. Areas covered by the work agreements shall be graded to meet the line of the channel cross-sections, or shall be restored to original condition under Item 203, Excavation for payment, after other work has been completed. Restored to original condition shall include restoring 12 field drain, if disturbed by the Contractor.

NEW PAVEMENT: shall be placed from Sta. 9+00 to Sta. 11+00 and shall consist of a variable thickness of 402 placed parallel to and  $\frac{1}{4}$  below finished grade and a  $\lfloor \frac{1}{4} \rfloor$  thickness of 404. A butt joint type feathered area as per Standard Drawing BP-5 shall be used.

GUARDRAIL OVER CONDUIT: Where sufficient post depth is not available due to the conduit, guardrail posts directly over the conduit shall be set in holes and encased in a minimum of 4" thickness of Class C' concrete for the full depth of the post, or as detailed on Std. Dwg. GR-I (dated 12-6-76) for inlet mounted posts. The method shall be approved by the Engineer. Payment for the above shall be included in the unit price bid for Item 606-Guardrail, Type 5.

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TUS-250-(26.03)

PLAN NO. BR-67-80

LOCATION OF GUARDRAIL: The location of guardrail runs as shown in these plans are subject to adjustment by the Engineer to assure that the installation will afford maximum protection for traffic.

SEEDING: Quantities for seeding are calculated for soil areas between work limits as shown on the cross-sections.

ROUNDING OF CORNERS: The rounded corners, shown on the TYPICAL SECTION apply to all cross sections even though otherwise shown on these plans.

ITEM 607, FENCE, TYPE 47 RA, MODIFIED AS PERPLAN: This item shall include the temporary installation of woven steel wire fence along the limits of work agreement for the duration of proposed work, and subsequently using the fence materials to restore the original farm fence disturbed by construction as directed by the Engineer. Fence posts shall be new, but may be the same type as existing; other materials shall be as per 607.02. Post assemblies will not be required for temporary installation. Stream crossings shall be as existing for both temporary and final fence lines. All labor, materials and equipment required to complete above work shall be included in price bid for Lin. ft., I tem 607.

Fig. 13. Start Project 3.

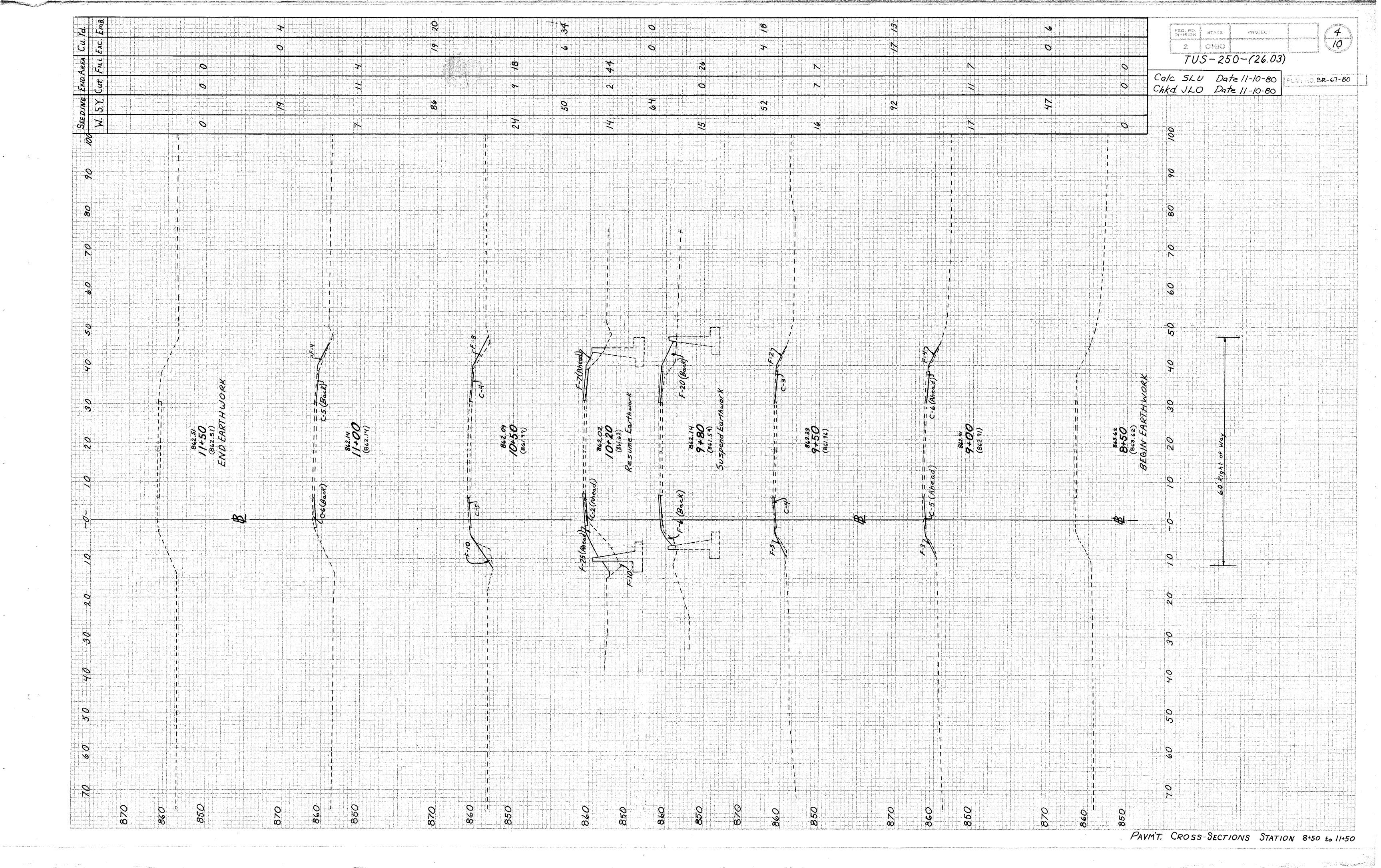
TUS-250-(26.03)

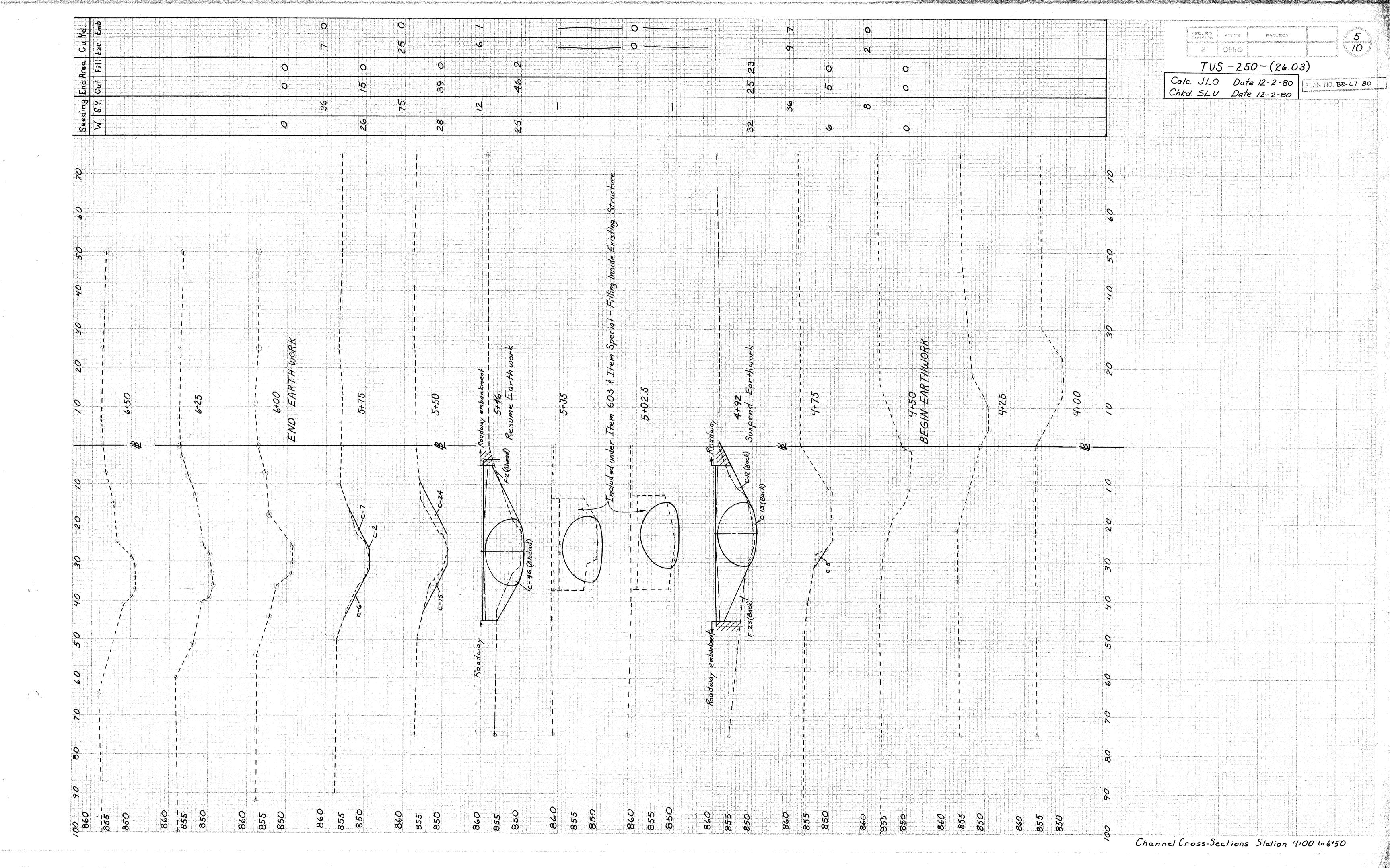
PLAN NO. BR-67-80

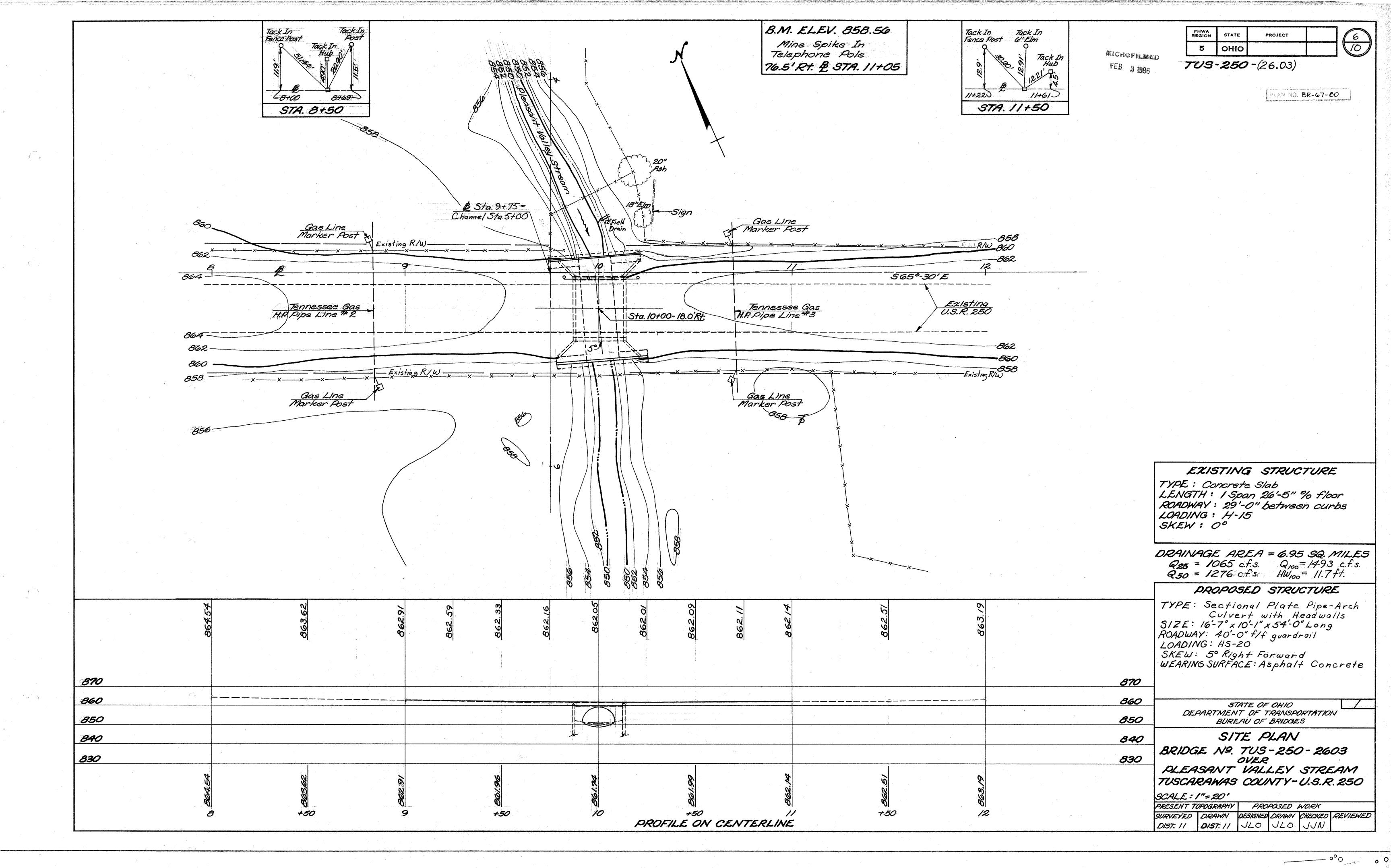
GUARDRAIL					
STAT	ION	SIDE	ITEM 606 GUARDRAIL		
FROM	то	Œ	TYPE 5	BLY TYPE A EACH	
8 + 50	11+50	LEFT	250	2	
8 + 50	11+50	RIGHT	250 •	2	
Т	OTALS		500	4	

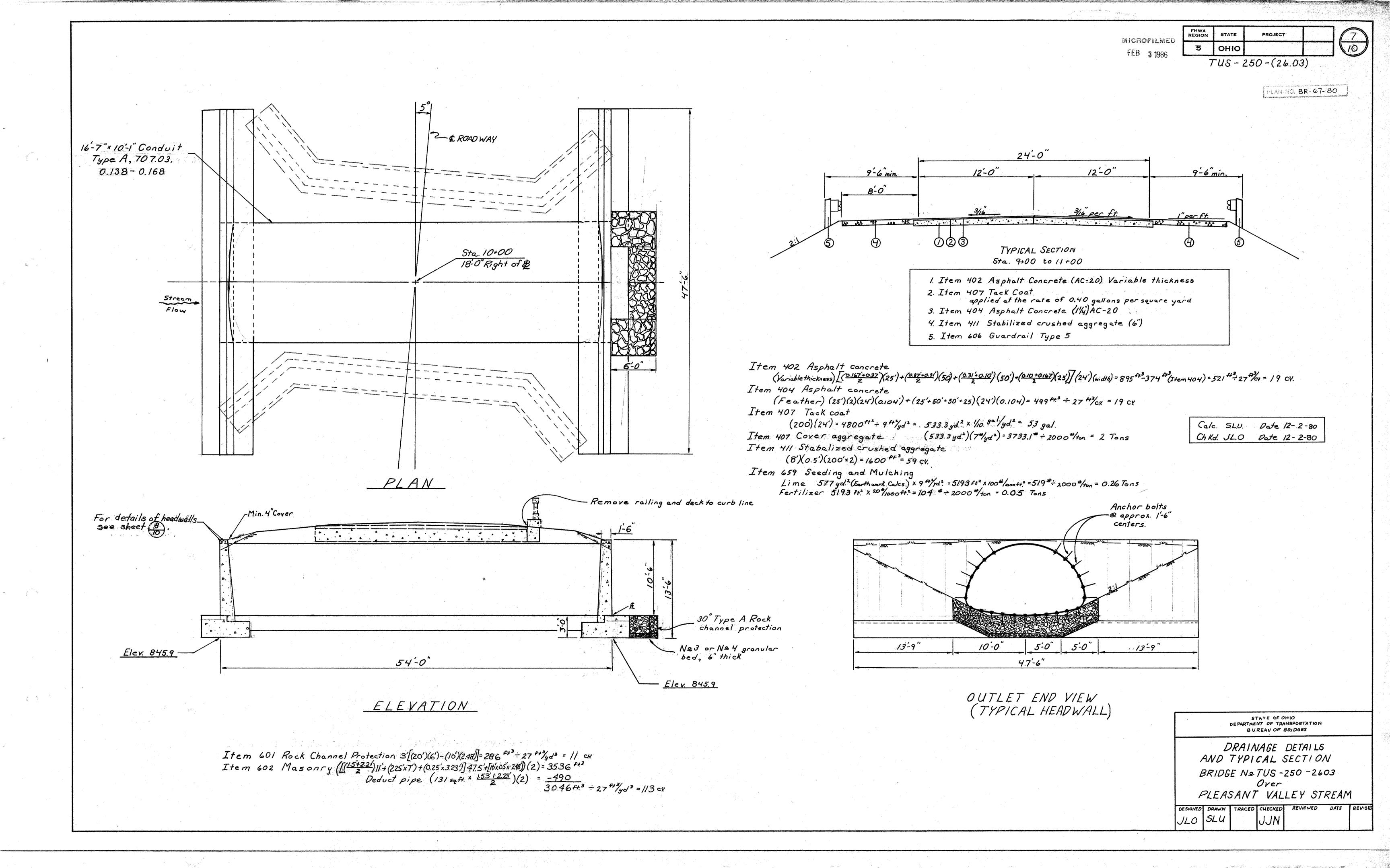
	GENERAL SUMMARY				
ITEM	TOTAL	UNIT	DESCRIPTION		
202	LumpSum	Lump Sum	Portions of structure removed, as per plan		
203	95	Cu. Yds.	Excavation not including embankment construction		
203	103	Cu. Yds.	Embankment		
402	19	Cu. Yds.	Asphalt concrete (AC-20)		
404	19	Cu. Yds.	Asphalt concrete (AC-20)		
407	53	Gallons	Tack coat, 55 4, 45 14, 253 2, 850 1 52 160 134 1		
407	2	Tons	Cover aggregate		
411	59	Cu. Yds.	Stabilized crushed aggregate		
509	3045	Lbs.	Reinforcing steel		
60 I	13	Cu Yds.	Rock channel protection, Type A with bedding		
602	11133	Cu Yds.	Concrete masonry		
603	54	Lin. Ft.	16'-7"x 10'-1"Conduit, Type A, 707.03, 0.138-0.168 installed		
	, / /	1	as per plan with type B bedding.		
606	500	Lin. Ft.	Guardrail, Type 5		
606	4	Each	Anchor assembly, Type A		
614	Lump Sum	Lump Sum	Maintaining traffic , as eee elan		
616	1	M-Gallons	Water		
616	0. 5	Tons	Calcium chloride		
	Kang Gra				
624	Lump Sum	Lump Sum	Mobilization, as per plan		
659	0.26	Tons	Agricultural liming		
659	577	Sq. Yds.	Seeding and mulching		
659	0.05	Tons	Commercial fertilizer		
607	210	Lin. ft.	Fence, Type 47RA, modified as per plan		
Special	Lump Sum	Lump Sum	Filling inside existing structure as per plan		
623	Lump Sum	Lump Sum	Construction Layout Stakes		

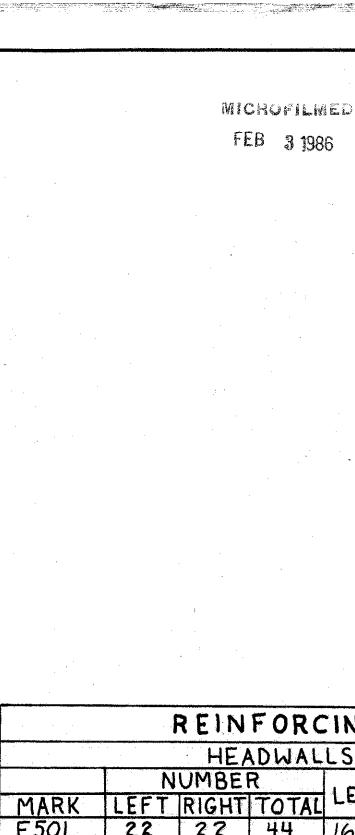
• • • • • • •	S COUNTY ~ UNION TWA TIAN - R 7 W	EARL W. R. V. 216 Area of	PEED, É MILDRED H. p. 472, V. 370 p.31 Work Agreement = 0.04	remonstrate and the second second of the confidence of the confide	in mai demonstrativa en
	30' Easement V. 326 p. 257	ts of Work Agreement		0' Easement 363 p. 100 to remain undisturbed	
7,00	Gas Line Marker Post  Ex. R/ A.A., Type A  8+00	9/3/3	Field Orgin	Line er Post  Anchor Assembly, Type 1  12+00  B	13+00
	Anchor	ker Post Assembly	Marker	Anchor Assembly, Type A	
The Ohio Bell Telepho 150 E. Gay Stree Columbus, Ohio 4  Tennesee Gas Pipeline	one Co. + 32/5	9480 Rt.	100 A.T.		0 20 40 60 80 100 Scale in feet
Box 8  Carrollton, Ohio 4		HARRY S. REL	Limits of Work Agree  B  ATA  B  ATA	ement	
magana mang 1185 man sa sakara mangsak samba najamba kama yangsah najamba kasan na kasan na samba kasan najamb	BEGIN WORK STA. 8+50  30'Easement V. 326 p. 252	V. 209 p. 513, V. 216 Area of Work Agreement =	% %o.	0'Easement 362 p.623	END WORK STA. 11+50
870	798	862.06	862.09	\$\frac{1}{2}\frac{1}{2	870
860		egin Print Feather Sto. 9400		End Print Feather  Sto. 11700	860
850					850 840
830	79.298	96.19	8	\$\$\frac{1}{2}\$	830
	8+0				







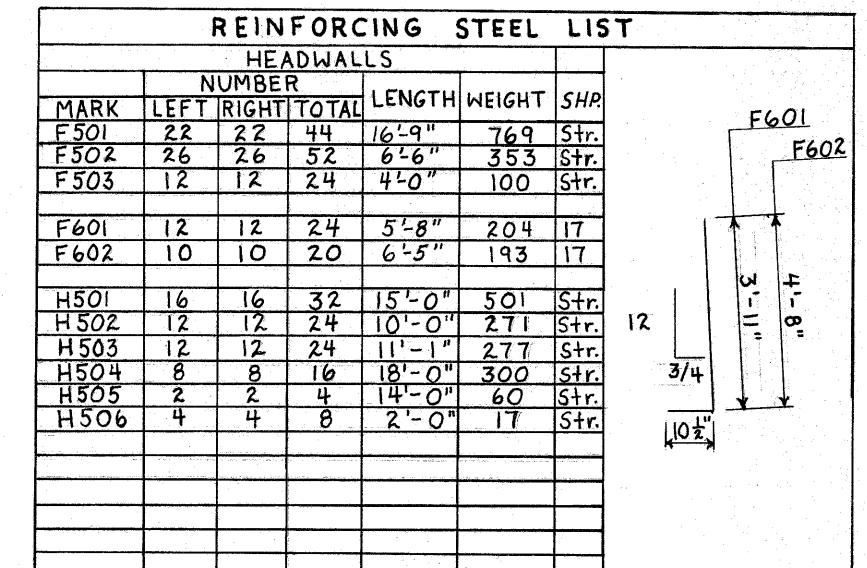




FHWA REGION STATE PROJECT 8

TUS-250-(26.03)

FLAN NO. BR-67-80



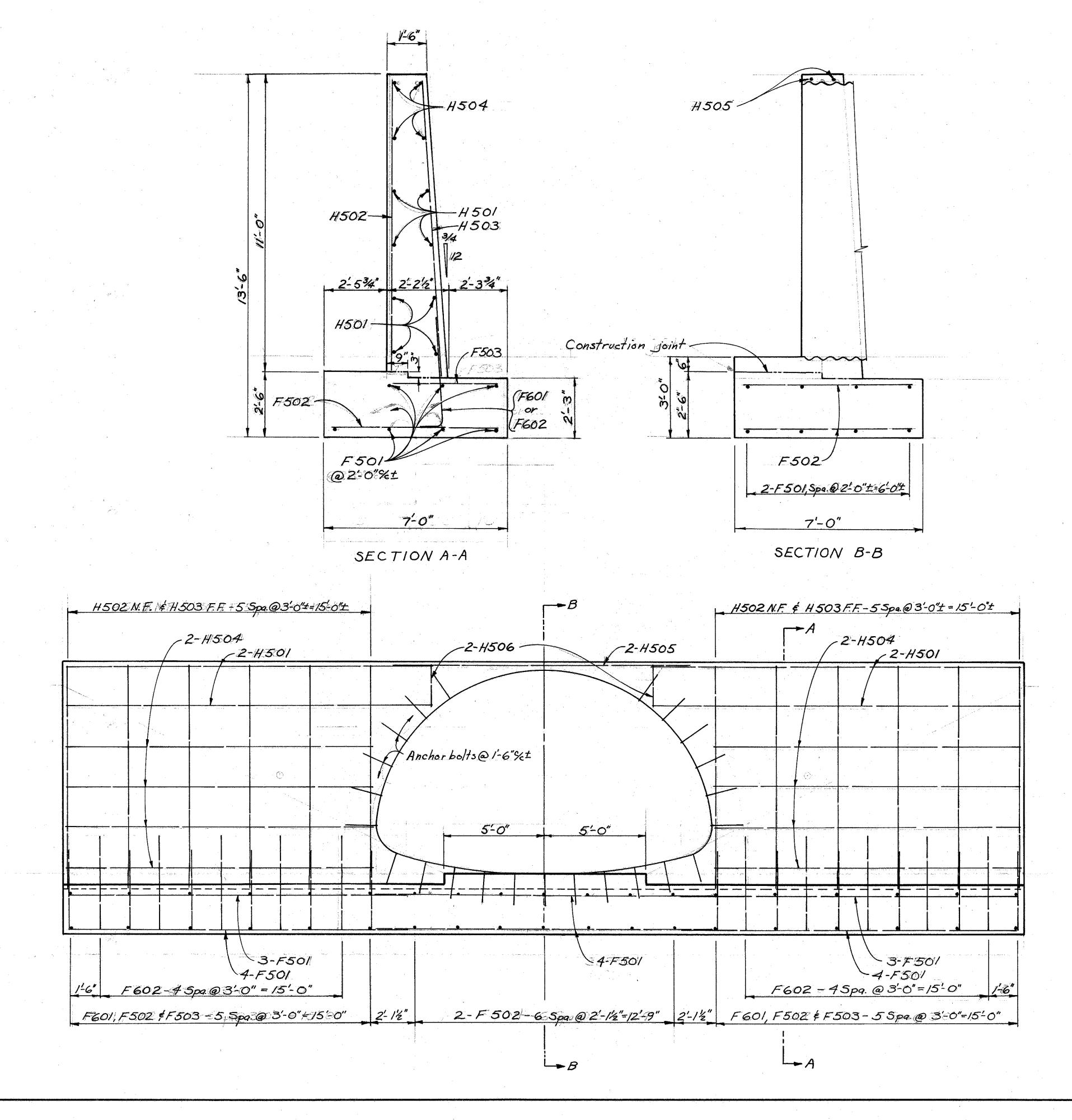
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF MAINTENANCE

HEADWALL DETAILS

AND REINFORCING STEEL LIST

BRIDGE NO. TUS-250-2603 OVER PLEASANT VALLEY STREAM

1	: ::				<u> </u>		
1	DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	Dist.11-			and the second s			



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FEB 3 1986

TUSCARAWAS COUNTY
TUS-250-26.03

PLAN NO. BR-67-80

#### LEGEND

#### GENERAL INFORMATION

THE	PROI	POSED	CUL	/ERT	SITE	IS	LOCATE	D IN	THE '	HIGHL	Y DI	SSECT	ED.	UNGLAC	IATED
														PLEAS	
VAL	EY S	STREA	M ANI	LIT	TLE :	STIL	LWATER	CRE	ek ani	O ON	THE	BROAD	FLO	ODPLAI	N OF

VALLEY STREAM AND LITTLE STILLWATER CREEK AND ON THE BROAD FLOODPLAIN OF LITTLE STILLWATER CREEK, IN AN AREA WHERE EXTREMELY DEEP VALLEY AND STREAM DEPOSITS OVERLIE BEDROCK OF PENNSYLVANIAN AGE.

#### **EXPLORATION**

GEOLOGY OF THE SITE

THE EXPLORATION CONSISTED OF TWO DRIVE-PRESS SAMPLE BORINGS MADE BY MEANS OF A MECHANICALLY-POWERED HOLLOW STEM AUGER MOUNTED ON A MOBILE PLATFORM, PERFORMED ON AUGUST 6 AND 10, 1981.

#### INVESTIGATIONAL FINDINGS AND OBSERVATIONS

THE BORINGS ENCOUNTERED INTERVALS OF EXTREMELY LOOSE TO MEDIUM DENSE STRATIFIED SILTS AND CLAYS MODIFIED WITH SAND AND GRAVEL THAT GRADUALLY INCREASE IN DENSITY WITH INCREASE IN DEPTH. BORING B-1 (IN THE VICINITY OF THE CULVERT INLET) WAS TERMINATED AT 36.5-FOOT DEPTH, ELEVATION 824.5 FEET, AFTER PENETRATING IN EXCESS OF 6 FEET OF MATERIAL, REQUIRING IN EXCESS OF 13 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST. BORING B-2 (IN THE GENERAL VICINITY OF THE CULVERT OUTLET) WAS TERMINATED AT 31.5-FOOT DEPTH, ELEVATION 830.5 FEET, AFTER PENETRATING IN EXCESS OF 8 FEET OF MATERIAL REQUIRING IN EXCESS OF 13 BLOWS PER FOOT IN THE STANDARD PENETRATION

BEDROCK SURFACE WAS NOT ENCOUNTERED IN EITHER OF THE TEST BORINGS PERFORMED.

NO FREE WATER OBSERVATIONS WERE MADE DURING OR AT THE CONCLUSION OF DRILLING OPERATIONS, HOWEVER BORING B-1 ENCOUNTERED WET ZONES AT 5.0, 10.0 AND 22.5-FOOT DEPTHS, ELEVATIONS 856.0, 851.0 AND 838.5 FEET, RESPECTIVELY.

36 4/7/10

GRAY-BROWN CLAYEY SILT

(	$\Rightarrow$	Auger Boring Location - Plan View.
· <del>(</del>	• •	Press and / or Drive Sample and / or Core Boring Location - Plan View.
÷	•	Drive Rod Penetration Resistance Sounding Location – Plan View.
٩		
		Capped Pile
	L	Footing
Ą	-	Footing on Pile

Top of Rock

WET ZONE ELEVS 85

-	Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
X/Y/Z	Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.  X = Number of Blows for First 6 inches.  Y = Number of Blows for Second 6 inches.  Z = Number of Blows for Third 6 inches.
	Drive Rod Penetration Resistance Sounding Log - Profile
	Casing
	Resistance "R" < 10,000 lbs.
	Resistance "R" > 10,000 lbs.
Z	Indicates Final Measurement of Penetration, in Inches.
W	Indicates Free Water Elevation.
<b>T</b>	Indicates Static Water Elevation.
	•

#### SYMBOLS OF ROCK TYPES

	SYMBOLS OF ROCK TYPES	
Coal		Weathered Sandstone
Weathered Mudstone or Claystone		Sandstone
Mudstone or Claystone		Leached Dalomite
Weathered Shale		Dolomite
Shale		Leached Limestone
Weathered Sittstone		Limestone
Siltstone		Boulders or Cobbles

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of High-

frictional resistance on the rod), by using charts prepared by the Ohio Department of High-ways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the

#### Drive Sample Borings - Drive-Press Sample Borings

overall uniformity of subsurface condition may be evaluated.

Drive Rod Penetration Sounding Tests

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" 1.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 18 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in three 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system-and gradation, plasticity, and moist-ure content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders Cobbles Gravel Coarse Sand Fine Sand Silt Cla

Во	ring No	B-1		Station & Offset 9+75 ~ BL (CI	ILVERT INLE	ET)		S	urfoc	e.El	ev	361.0		•	
Deoth	Std. Pen.	Rec.	Loss	Description	······································	Sample							tics		SHTL
	(N)	71.	<u> </u>		· · · · · · · · · · · · · · · · · · ·	No.	% Agg.	c's	F.S.	Silt	¥.6	L.L.	PI.	W.C.	Class.
					· · · · · ·										
2									مند			ļ			İ
4															
-					/										
6_	1/2/2	BR	OWN CI	AYEY SILT	•	1	0	0	9	56	35	32	10	30	A-5b
				N.W. 474 7 447 447		2	١	^	,	a.c	F.3	20	7.0	30	
2	2/2/3	GRA	AY-BR	DWN SILT AND CLAY		2	U	Ų	3	40	31	30	14	30	A-6a
<u>_</u>															
								,							
16	PRESS	GR/	AY-BR(	WN ORGANIC CLAYEY SILT (AVERAGE)	·	3	0	1	1	1	32	29	6	27	A-4b
18		GR/	AY-BRO	WN CLAYEY SILT, SLIGHTLY ORGANIC	,	3A	0	0	12	55	33	28	6	28	A-4b
-	2/2/3	GRA	AY ORG	SANIC SANDY CLAY		4	0	3	27	43	28	34	11	32	A- <del>6</del> a
						_									
22	1/2/2	GR/	AY ORG	ANIC SANDY SILT	·	5	0	1	36	37	26	33	8	30	A-4a
24	2/2/3	GR/	AY_RR(	MN CLAVEY STIT STIGHTLY ODGANIC	•	6	_	6	18	26		22	30	23	
		<b></b>	·	MIN SERVER SELECTION ORGANIC		"	U	Ð	14	30	44	32	ווי	31	A-4a
26	1/3/4	GR/	AY-BRO	WN CLAYEY SILT		7	0	0	1	51	48	30	7	32	A-45
28												,			
1				•											
30	21810									-					
32	3/0/8 	GR/	Y-BRC	WN CLAYEY SILT		R	0	0	1	50	49	30	8	2/	A-45
	Depth 0 2 4 6 8 10 12 14 16 18 20 22 24 26 30	(N)  O  2  4  6  1/2/2  8  1/2/2  8  2/2/3  14  PRESS  18  2/2/3  2/2/3  2/2/3  1/2/2  2/2/3  1/2/2  2/2/3  1/3/4  28  30  3/6/8	Depth Std. Pen. Rec. ft. O	Depth Std. Pen. Rec. Loss ft. O	Depth Std. Pen. Rec. Loss Description  1/2/2 BROWN CLAYEY SILT  1/2/2 BROWN CLAYEY SILT  1/2/2 BROWN SILT AND CLAY  1/2/2 GRAY-BROWN ORGANIC CLAYEY SILT (AVERAGE) GRAY-BROWN CLAYEY SILT, SLIGHTLY ORGANIC GRAY ORGANIC SANDY CLAY  1/2/2 GRAY ORGANIC SANDY SILT  1/2/2 GRAY-BROWN CLAYEY SILT, SLIGHTLY ORGANIC GRAY-BROWN CLAYEY SILT, SLIGHTLY ORGANIC SANDY SILT  1/3/4 GRAY-BROWN CLAYEY SILT  1/3/4 GRAY-BROWN CLAYEY SILT	Depth Std. Pen. Rec. Loss ft. Description  2	Std.   Pen.   Rec.   Loss   Description   Somple	Std. Pen.   Rec.   Loss   Description   Sample   No.   Agg.	Std. Pen.   Rec.   Loss   Description   Sample   No.   Agg   C.S.	Std. Pen.   Rec.   Loss   Description   Sample   Physical Rec.   Loss   Rec.   Loss   Rec.   Rec.	Sid_ Pen.   Rec.   Loss   Description   Somple   Physical Adg.   C.S.   F.S.   Silt	Description   Std. Pen.   Rec.   Loss   Description   Somple   No.   Agg   C.S.   F.S.   Sih   Oky	Depth   Std. Pen.   Rec.   Loss   Description   Somple   Physical Chorocteris   No.   Agg.   C.S.   F.S.   Sin   Clay   L.L.	Depth   Std   Per   Rec.   Loss   Description   Somple   No   Agg   C'S   FS   Std   Cisy   L.L.   Pt.	Description   Std. Pen.   Rec.   Loss   Description   Sample   Physical Characteristics   No.   Agg   C.S.   F.S.   Sin   Cay   L.L.   Pt.   M.C.

EBOTTOM OF BORING

	Date Started 8/6/81		0.46.403	Sampler Type SS Dia 13/8"			Woter Elev.								
		ite Complete ring No	8/6/81 B-2	Station & Offset 10+20 - 20' RT. (Cl	ULVERT OUTLE	T)		S	urfoc	e El	lev	862.	0'		
Elev.	Depth	Std. Pen.	Rec. Loss	Description	Sor	npie						acteri	SHTL		
52.0	6	(N)	ft.   ft.		1	io.	Y, Agg	C.S.	F.S.	Silit	Clay	L.L.	Pi.	W.C.	Class.
	-														ĺ
	2														
57.0	4														
37.0	6	1/1/2	DDOWN CDAY	SANDY SILT	1		0	1	30	42	28	27	7	28	A . A .
	8	1/1/2	, BROWN-GRA	SARDI SILI			U	•	29	42	20	21	′	20	A-4a
52.0	<b>10</b>	1/2/2	CDAV_RDOWN	CLAYEY SILT	2	ŧ.	0	0	1/1	F.3	33	28	7	27	A-4b
	12	1/2/2	GIVAT-BROWN	CENTER SILI	4	,		J	,	33	33	20	'	2,	N-4D
	14		,												
47.0	16	PRESS	GRAY SAND	SILT AND CLAY	3		0	1	8	41	50	33	11	31	A-6a
44.5	9	(REC 2.4'	GRAY SILT	AND CLAY, TRACE OF ORGANIC (AVERAGE	) 3	Α	0	0	0	44	56	35	11	28	A-6a
		3/5/8	GRAY-BROW	SILT AND CLAY	4		0	0	0	43	57	35	11	27	A-6a
42.0	20_	0.46.47													
39.5	22	2/6/7	GRAY-BROWN	SILT AND CLAY	5		0	0	0	31	69	38	15	30	A-6a
	24	3/7/10	GRAY-BROWN	SILT AND CLAY	6		0	0	0	38	62	35	11	29	A-6a
37.0	26	040433						_	_	42		-	10	20	, a ===
•	28	3/9/11	GRAY-BROWN	SILT AND CLAY	7		0	0	U	41	59	36	13	28	A-6a
32.0	30			·											
30.5	132	3/5/9	GRAY-BROWN	CLAYEY SILT			0	0	0	53	47	31	9	27	A-46

NOTE - ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN ON THE STRUCTURE FOUNDATION INVESTIGATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE INVESTIGATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE BUREAU OF TESTS AT 1600 WEST BROAD STREET, THE PAVEMENT AND SOILS SECTION OF THE BUREAU OF LOCATION AND DESIGN OR IN THE BRIDGE BUREAU AT 25 SOUTH FRONT STREET.

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS — TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. TUS-250-2603

OVER PLEASANT VALLEY STREAM

TUS-250-26.03

CHECKED BY REVIEWED BY DATE
L. N. L. R. D. R. 9/17/81

