HENRY COUNTY
DEPARTMENT OF HIGHWAYS

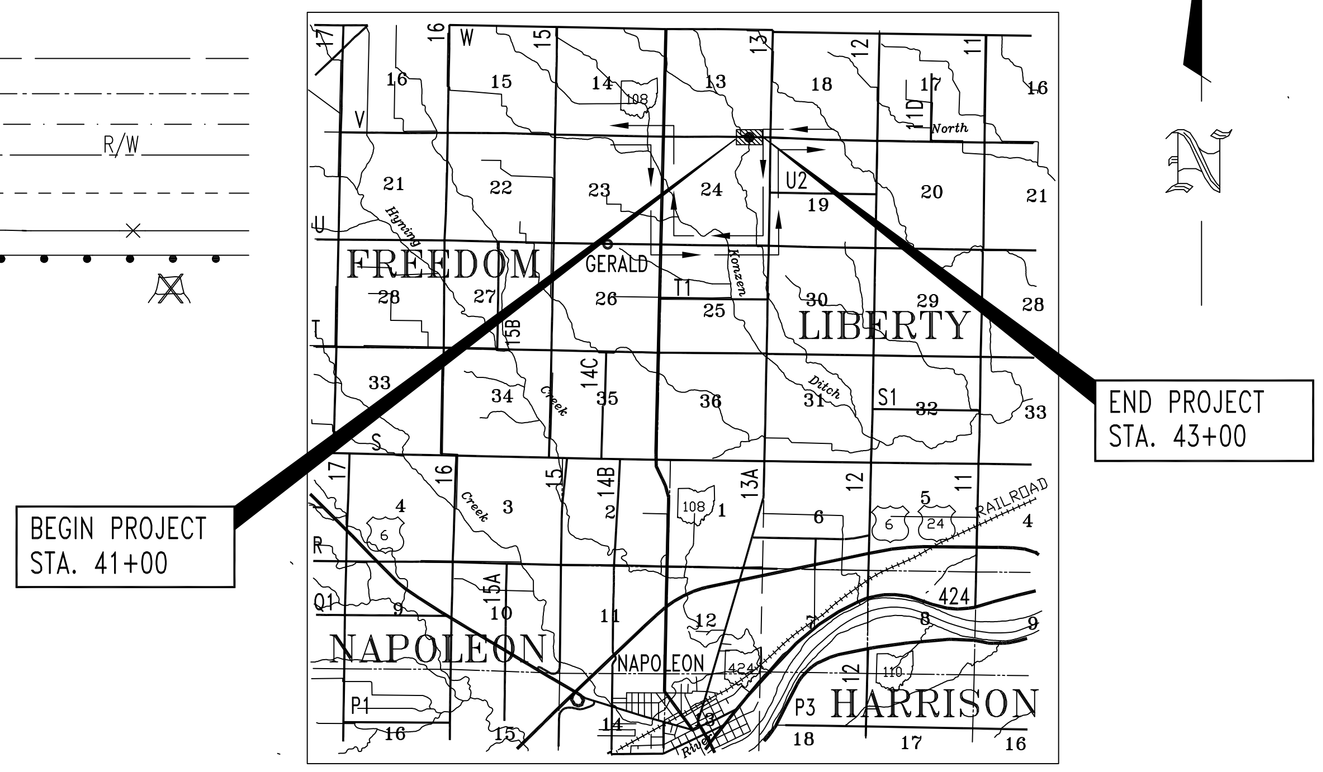
BRIDGE V-11.80

STATE OF OHIO

CONVENTIONAL SIGNS

Township Line
Section Line
Center Line
Property Line — PL
Railroad
Fence Line (existing) — x — x —
Guardrail (existing)
Trees Stumps
Utility Poles: Telephone Power
Light Brace

County Line
Corporation Limits
Construction Limits
Right of Way — R/W
Underground Utilities
(proposed)
(proposed)
(to be removed)



LOCATION MAP

1 1/2 0 1 2 4
SCALE IN MILES

Detour
Portion to be improved
State and U.S. Routes
County and Township Roads

SCALES

Plan 0′ 10′ 20′ 30′ 40′ 50′
Profile — Horizontal 0′ 20′ Vertical 0′ 5′
Cross Section — Horz. 0′ 5′ Vertical 0′ 5′

INDEX OF SHEETS

TITLE SHEET 1
GENERAL NOTES 2
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2010 SPECIFICATIONS

The Standard Specifications of the 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 of the highway and that the necessary lights and signs shall be maintained.

Approved _____
Date _____ Henry County Engineer

Approved _____
Date _____ Henry County Commissioner

Approved _____
Date _____ Henry County Commissioner

Approved _____
Date _____ Henry County Commissioner

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
CALL 800-362-2764
OHIO UTILITY PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

MT-101.60	7-1-92			
DM-1.1	7-19-02			

SUPPLEMENTAL SPECIFICATIONS

944	12-07-95	

Plans Prepared By
HENRY COUNTY ENGINEER'S OFFICE
NAPOLEON, OHIO

CREATED: 2/28/2012

DEPARTMENT OF HIGHWAYS
HENRY COUNTY, OHIO

TITLE SHEET

BRIDGE NO. HEN-V-11.80
OVER DITCH 1075
FREEDOM TWP.

Designed:	Drawn:	Checked:	File Name:
HEN. CO. ENG.	S.J.K	T.J.S	C:\R13\BRIDGES\V-11.80\TITLESHEET

GENERAL NOTES

ELEVATION DATUM
All elevations are based on GPS DATUM

EROSION CONTROL
ITEM 601 is provided in the plans for erosion control. Rock of a stable nature will not be removed in order to place this item. The Engineer shall check and non-perform quantities or adjust locations and quantities for this item where indicated by field conditions during construction.

UTILITY OWNERSHIP
The following utilities and owners are located within the work limits of this project.

ELECTRIC: NAPOLEON LIGHT & POWER DEPT.
255 RIVERVIEW AVE.
NAPOLEON, OHIO 43545
419/599-1235
419/599-2810 (EMERGENCY)

TELEPHONE: CENTURYLINK
375 E. RIVERVIEW
NAPOLEON, OH. 43545
419/599-4024

ITEM 603
Payment for manufactured end sections, coupling bands, precast wingwalls and footings shall be included in the unit price bid for each conduit under this item.

Where plans provide for proposed conduit to be connected to, or to cross either over or under an existing sewer, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before laying the proposed conduit.

Payment for all operations described above shall be included in the unit price bid for the pertinent 603 conduit items.

Immediately after placement of any conduits, the Contractor shall construct the end treatments required by the plans at both the outlet and inlet ends. This shall include headwalls, wingwalls, end sections, concrete riprap, rock channel protection, sodding, etc.

UNDERGROUND UTILITIES
The locations of underground utilities shown on the plans are as obtained from the owners of the utility as required by Section 153.64 ORC.

SEEDING
To be performed by county forces.

ANIMAL GUARDS
Animal guards shall be provided at the outlet of all pipes which are to be constructed by the Contractor, as per Standard Construction Drawing DM-1.1, except when they outlet into a drainage structure. Payment for the animal guards shall be included in the price bid for Item 603.

INGRESS AND EGRESS TO DRIVES
Ingress and egress to all residential drives shall be maintained at all times during the construction of this project. Temporary closures of any drives shall require permission from the Engineer prior to closure and shall be held to as short a period of time as is necessary.

CONTINGENCY QUANTITIES
The Contractor shall not order materials or perform work listed in the GENERAL SUMMARY for items designated by plan note to be used "AS DIRECTED BY ENGINEER" unless authorized by the Engineer. The actual work locations and quantities used at the Engineer's discretion shall be made a matter of record by incorporation into the final change order governing completion of this project.

GUARDRAIL
County forces will install guardrail after completion of this project, Contractor shall remove existing guardrail within the Project Limits in a manner that does not damage the guardrail and store as Directed by the Engineer.

DETOURS
All necessary signs and sign supports including erecting, maintaining and removing the signs and sign supports shall be provided by the Contractor for the required project detour, as indicated on Sht. 1.

Signs and sign supports shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices. Payment for providing, erecting, maintaining and removing signs and sign supports shall be included in the lump sum price bid for ITEM 614, MAINTAINING TRAFFIC.

LIGHTS AND SIGNS AT ADJACENT INTERSECTIONS
The Contractor shall, in addition to the general requirements of ITEM 614 on this project, perform the following:

Provide, erect, and maintain standard 48" x 30" "ROAD CLOSED" signs, sign supports, and lights at the following locations during the period in which the affected road is closed to traffic:

1. Int. S.R. 108 & C.R. V
2. Int. C.R. V & T.R. 13

Sign supports and lights for "ROAD CLOSED" signs shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices. Payment for providing, erecting, maintaining, and removing lights, signs, and sign supports shall be included in the lump sum price bid for ITEM 614, MAINTAINING TRAFFIC.

APPEARANCE OF BRIDGE
The Contractor shall be responsible for the removal of all foreign material such as waterproofing primer or other asphaltic materials, as soon as practical from the fascia beams and/or wingwalls.

REMOVAL AND DISPOSAL OF EXISTING BRIDGE
The existing bridge shall be removed and, at the Contractor's option, existing concrete and stone removed may be used as embankment protection material, as directed by the Engineer, providing that the material meets the gradation requirements of Section 601.08. Any protruding reinforcing steel shall be burned off at the surface of the concrete. Unusable masonry and other debris shall be disposed of as per Section 202.02.

DESIGN DATA FOR BRIDGE
Design Loading: HL-93 (LRFD)

WATERPROOFING MEMBRANE
Refer to ODOT Proposal Note 445-91 with the following revision.
The paragraph titled "Description" shall read:

This item shall consist of furnishing all necessary labor, materials and equipment to prepare the surface and place a waterproof TYPE 2, 36" wide membrane over the top surface and a TYPE 2, 12" wide membrane over the vertical joints. The joint between the wingwalls and the sides of the four sided structure to be covered by a 36" wide membrane. The membrane shall extend a minimum of 2 feet down each side and overlap the membrane covering the vertical joints. The 36" wide membrane shall also extend 12" up the face of all stub walls.

ALLOWABLE SOIL BEARING PRESSURE
The allowable soil bearing pressure is 2,500 p.s.f.

PROPOSED STRUCTURE

ADDITIONAL EMBANKMENT/BACKFILL MATERIAL
Lump Sum bid for ITEM 603, PRECAST CONCRETE BOX, shall include any necessary embankment or backfill material required between the Proposed Structure and the excavation limits from ITEM 202, Structure Removed.

CAST IN PLACE ALTERNATE
The Contractor may cast in place the wingwalls and footings in accordance with the STANDARD TABLE shown on the TYPICAL SECTION SHEET

ITEM 603 CONDUIT, TYPE A, 706.05
Lump Sum bid shall also include all Footings, Wingwalls, Stub & Cutoff Walls (As Per Plan)

REINFORCING STEEL
All reinforcing steel used in footings and wingwalls shall be GRADE 60 and EPOXY COATED
If Cast In Place Method Is Used. Epoxy Coating to conform to item 709.00

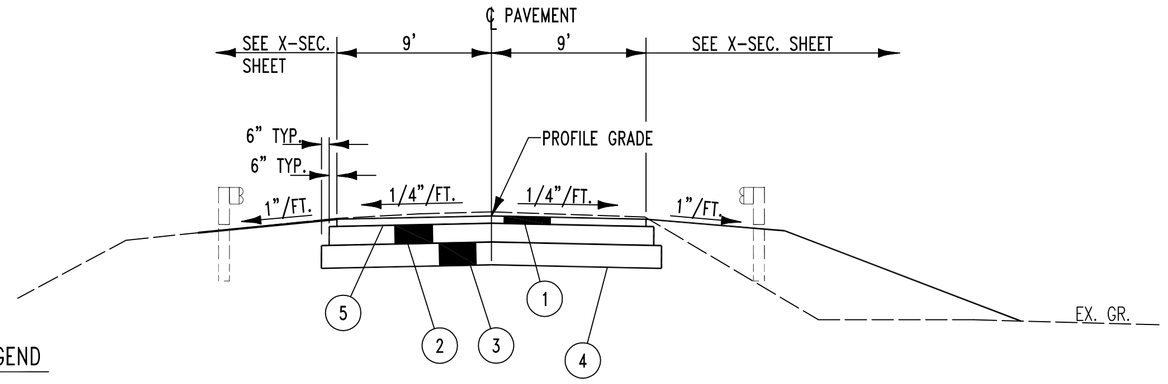
DRAWING CREATED 2/28/2012

DEPARTMENT OF HIGHWAYS
HENRY COUNTY, OHIO

GENERAL NOTES

BRIDGE NO. HEN V-11.80
OVER DITCH 1075
FREEDOM TWP.

Designed:	Drawn:	Checked:	File Name:
HEN. CO. ENG.	S.J.K	T.J.S	C/R13/BRIDGES/V-11.80/GEN-NOTES



LEGEND

1. ITEM 448, 1 1/2" ASPHALT CONCRETE SURFACE COURSE
2. ITEM 301, 5" ASPHALT CONCRETE BASE
3. ITEM 304, 6" AGGREGATE BASE
4. ITEM 204, SUBGRADE COMPACTION
5. ITEM 407, TACK COAT, APPLIED AT THE RATE OF 0.05 GAL/S.Y.

TYPICAL PAVEMENT SECTION

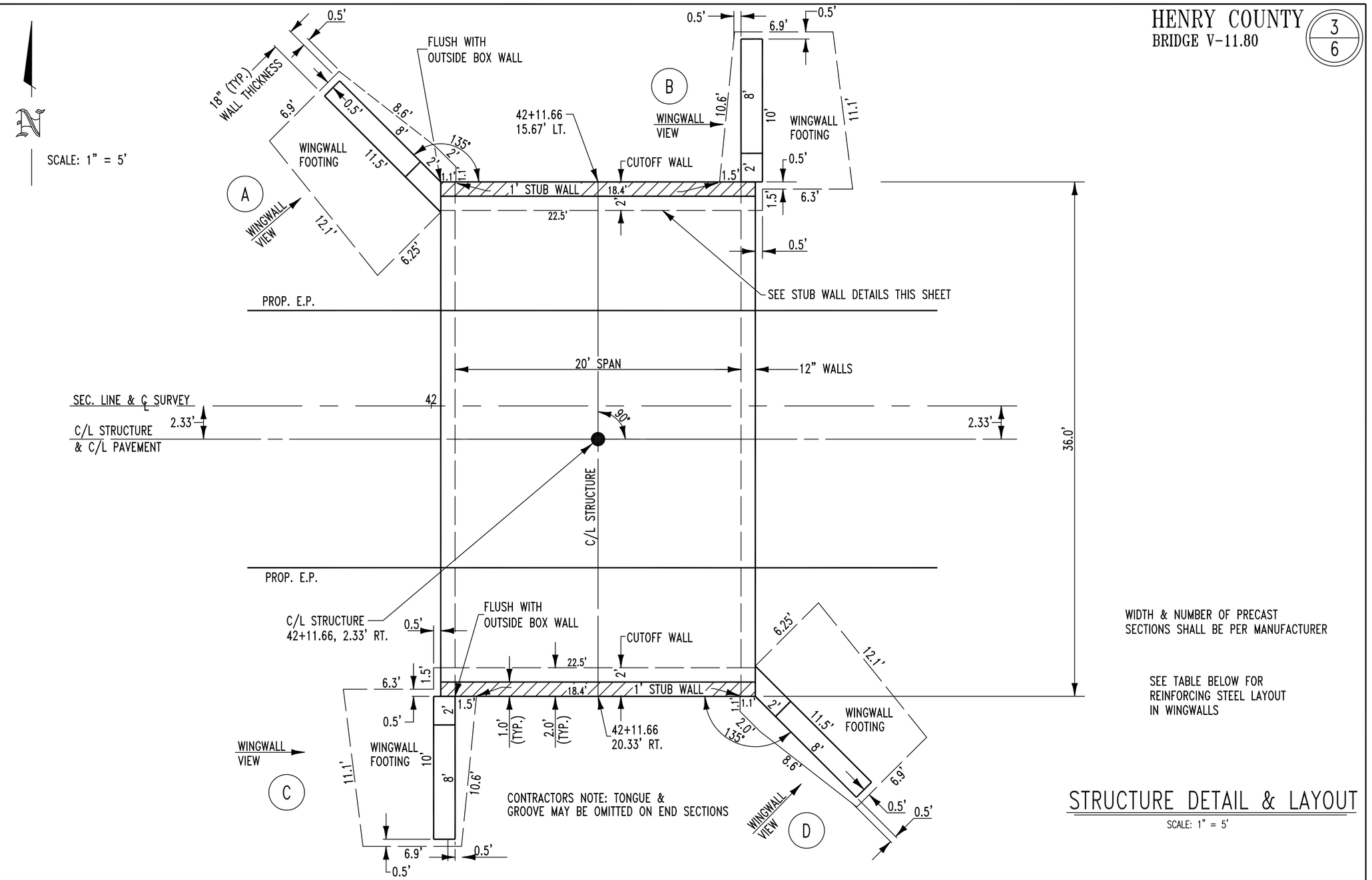
41+50 TO 42+50

NOT TO SCALE

TYPICAL ROADWAY SECTION

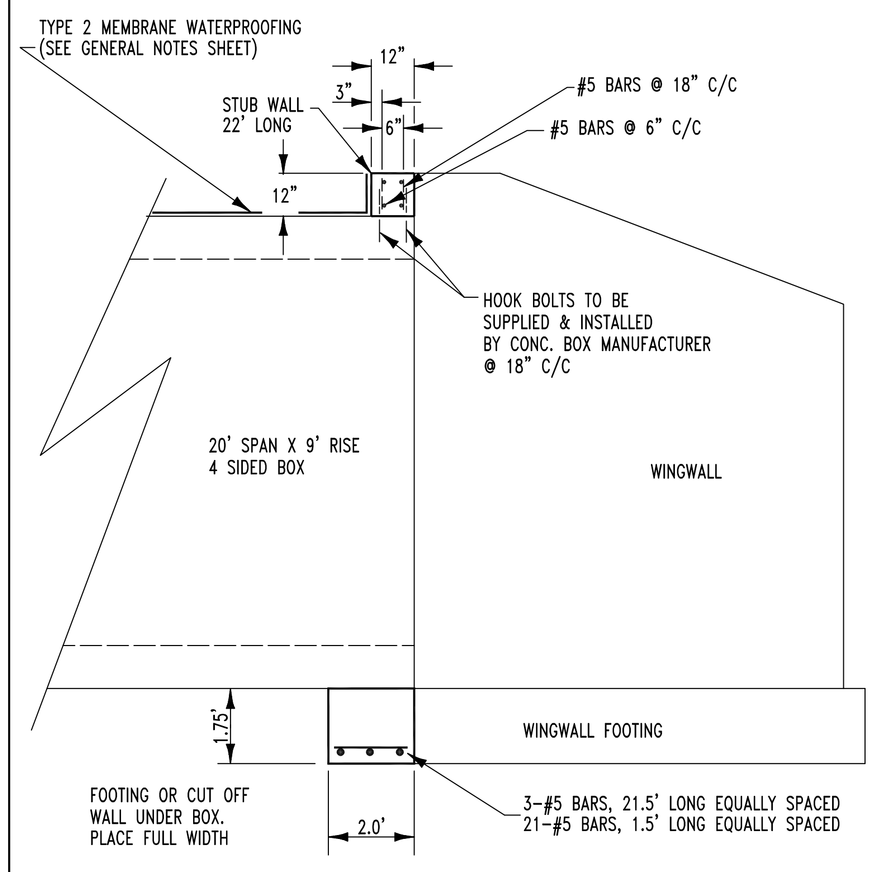
41+00 TO 43+00

NOT TO SCALE



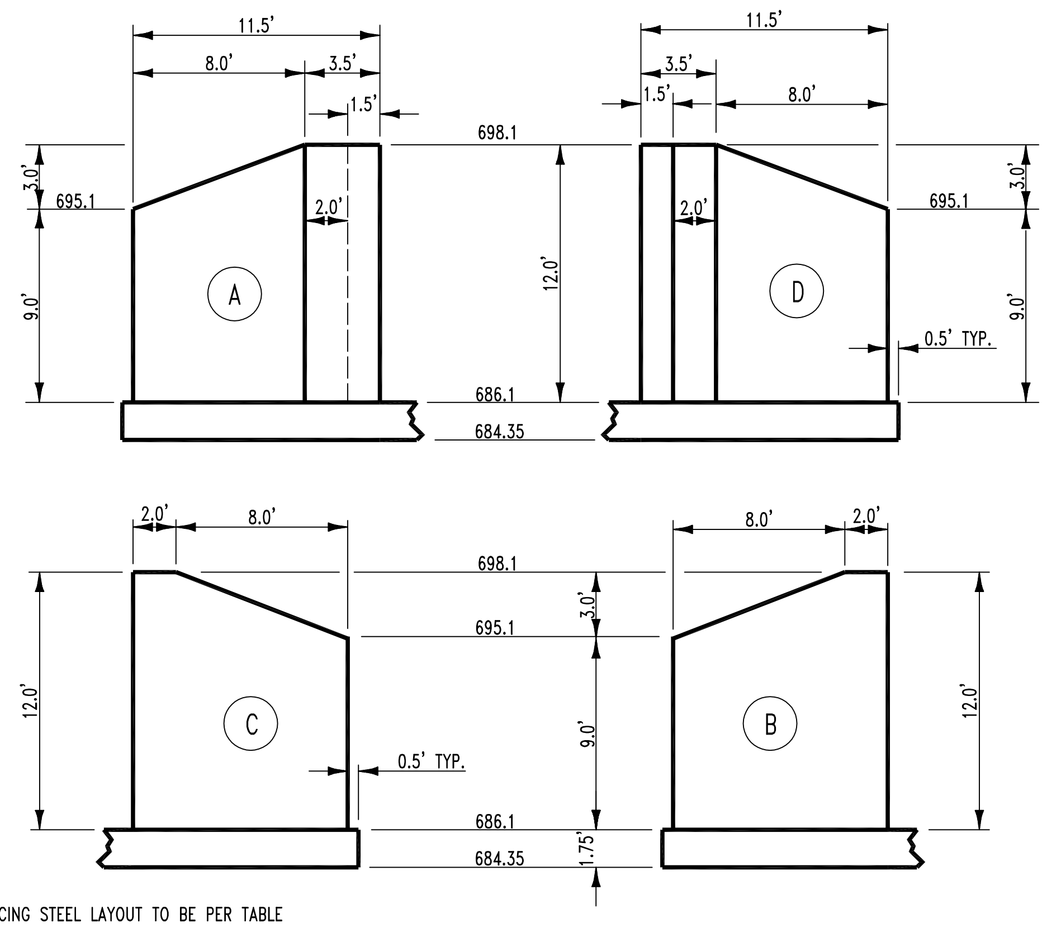
STRUCTURE DETAIL & LAYOUT

SCALE: 1" = 5'



STUB & CUTOFF WALL DETAIL
WATERPROOFING DETAIL

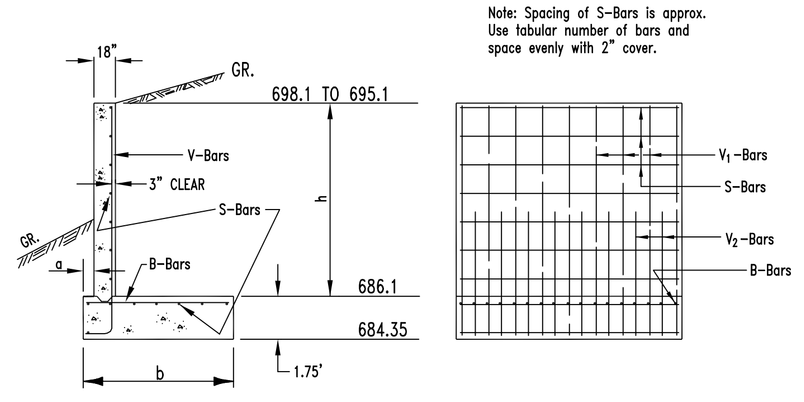
NO SCALE



REINFORCING STEEL LAYOUT TO BE PER TABLE
IF CAST IN PLACE METHOD IS USED. REINFORCING STEEL SHALL BE GRADE 60 & EPOXY COATED
ALL CONCRETE TO BE CLASS C
PROVIDE 1" X 45° CHAMFER ON ALL EXPOSED EDGES
SEE CAST IN PLACE ALTERNATE NOTE ON GENERAL NOTES SHEET

WINGWALL DETAILS

NO SCALE



Note: Spacing of S-Bars is approx. Use tabular number of bars and space evenly with 2" cover.

h	a	b	t	V-Bars		Lengths		B-Bars			S-Bars	
(ft.)	(in.)	(ft.-in.)	(in.)	Size	Spacing	V1 Bars	V2 Bars	Size	Spacing	Length	Size	Spacing
5	6"	3-6	12	#3	10"	7'-8"		#3	10"	3'-2"	#3	12"
6	6"	4-3	12	#4	10"	8'-9"		#4	10"	3'-10"	#3	12"
7	6"	5-0	12	#4	7"	9'-8"		#4	7"	4'-8"	#3	12"
8	6"	6-0	12	#5	7" *	10'-8"	7'-0"	#5	9"	5'-8"	#3	12"
9	6"	7-0	15	#5	7" *	12'-0"	7'-8"	#5	7"	6'-8"	#3	12"
10	6"	7-9	15	#6	9" *	13'-0"	7'-10"	#6	9"	7'-4"	#3	12"
11	12"	8-6	18	#6	9" *	14'-6"	9'-3"	#6	7"	8'-0"	#4	12"
12	18"	9-3	18	#6	9" *	16'-0"	10'-6"	#7	9"	8'-9"	#4	12"
13	24"	10-0	18	#7	9" *	17'-6"	11'-9"	#7	7"	9'-6"	#4	12"
14	30"	11-0	21	#7	9" *	19'-3"	13'-0"	#8	9"	10'-6"	#5	12"
15	36"	12-6	21	#8	9" *	20'-9"	16'-0"	#8	7"	12'-0"	#5	12"
16	42"	14-6	24	#8	9" *	22'-6"	19'-0"	#8	6"	14'-0"	#5	12"

* SPACING BETWEEN V1 & V2 BARS

WINGWALL NOTES:

IF CAST IN PLACE METHOD IS USED. REINFORCING STEEL SHALL BE GRADE 60 & EPOXY COATED
ALL CONCRETE TO BE CLASS C
PROVIDE 1" X 45° CHAMFER ON ALL EXPOSED EDGES
SEE CAST IN PLACE ALTERNATE NOTE ON GENERAL NOTES SHEET

CREATED: 2/24/12

DEPARTMENT OF HIGHWAYS
HENRY COUNTY, OHIO

TYPICAL SECTIONS STRUCTURE DETAILS

BRIDGE NO. HEN V-11.80
OVER DITCH 1075
FREEDOM TWP.

Designed:	Drawn:	Checked:	FileName
HEN. CO. ENG.	SK	T.J.S	C:\R13\BRIDGES\V-11.80\TYPICAL

GENERAL SUMMARY

ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
				ROADWAY
201		1	LUMP	CLEARING & GRUBBING
202		169	LIN. FT.	GUARDRAIL REMOVED (SEE PLAN & GENERAL NOTES SHEET)
202		1	LUMP	GABIONS REMOVED
202		59	LIN. FT.	PIPE REMOVED, 24" & UNDER
202		1	LUMP	STRUCTURE REMOVED (V-11.80) OVER 20' SPAN
				(INCLUDES CONC. APPROACH SLAB, CONC. HEADWALL, & CONC.. WINGWALLS)
203		112	CU. YD.	EXCAVATION (INCLUDES FULL DEPTH PAVEMENT REMOVAL AS SHOWN ON PLAN & X-SEC. SHEET)
203		172	CU. YD.	EMBANKMENT
204		231	SQ. YD.	SUBGRADE COMPACTION
				EROSION CONTROL
601		83	CU. YD.	ROCK CHANNEL PROTECTION, TYPE D W/O FILTER, 18" THICK
659		———	M. GAL.	WATER (TO BE PERFORMED BY COUNTY FORCES)
659		———	SQ. YD.	SEEDING & MULCHING (TO BE PERFORMED BY COUNTY FORCES)
659		———	TON	COMMERCIAL FERTILIZER (TO BE PERFORMED BY COUNTY FORCES)
				DRAINAGE
503		1	LUMP	UNCLASSIFIED EXCAVATION (INCLUDES ANY CUTS & FILLS REQUIRED TO SATISFY ANY OSHA TRENCH REQUIREMENTS)
512		130	SQ. YD.	TYPE 2, MEMBRANE WATERPROOFING (SEE GENERAL NOTES, SHEET 2)
603		24	LIN. FT.	15" CONDUIT, TYPE C, 707.33 (TO INCLUDE 2 - 15"- 45° ELBOWS)
SPECIAL		1	EACH	TILE TAP (6" TILE TAPPED TO 15" TILE)
603		1	LUMP	CONDUIT, TYPE A, 706.05
				PRECAST REINFORCED CONC. 4 SIDED BOX SECTIONS (36 L.F.)
				20' SPAN X 9' RISE - 0° SKEW, TO INCLUDE ALL FOOTINGS, WINGWALLS, STUB & CUTOFF WALLS (AS PER PLAN)
				PAVEMENT
301		30	CU. YD.	ASPHALT CONCRETE BASE
304		37	CU. YD.	AGGREGATE BASE
407		10	GAL.	TACK COAT (APPLIED AT THE RATE OF 0.05 GAL./S.Y.)
448		8.5	CU. YD.	ASPHALT CONCRETE SURFACE COURSE
				MISCELLANEOUS
614		1	LUMP	MAINTAINING TRAFFIC
623		1	LUMP	CONSTRUCTION LAYOUT STAKES
624		1	LUMP	MOBILIZATION
103.05		1	LUMP	CONTRACT PERFORMANCE & PAYMENT BOND

SUB-SUMMARY

TO INCLUDE CONC. APPROACH SLAB, CONC. HEADWALL & CONC. WINGWALLS

REF. NO.	STATION FROM	STATION TO	SIDE	ROAD	202 GUARDRAIL REMOVED (SEE PLAN & GENERAL NOTES SHEET) LIN. FT.	202 GABIONS REMOVED LUMP	202 PIPE REMOVED 24" & UNDER LIN. FT.	202 STRUCTURE REMOVED V-11.80 OVER 20' SPAN LUMP	601 ROCK CHANNEL PROTECTION, TYPE D W/O FILTER (AS PER PLAN) CU. YD.	603 15" CONDUIT TYPE C 707.33 TO INCLUDE 2-15" 45° ELBOWS. LIN. FT.	SPECIAL TILE TAP 6" TILE TAPPED TO 15" TILE EACH	603 CONDUIT, TYPE A 706.05, 4 SIDED CONC. BOX 20' SPAN X 9' RISE - 0° SKEW TO INCLUDE ALL FOOTINGS, WINGWALLS, STUB & CUTOFF WALLS (AS PER PLAN) LUMP	SHEET NUMBER
1R	41+82	42+24	LT&RT	V				1					5-6
2R	41+98		LT.	V			4						5-6
3R	42+00	42+16	LT.	V		1							5-6
4R	42+12	42+45	LT.	V			33						5-6
5R	42+13	42+35	LT.	V			22						5-6
6R	41+00	42+29	LT.	V	129								5-6
7R	41+87	42+27	RT.	V	40								5-6
1D	41+89	42+35	LT&RT	V								1	3-5-6
2D	42+19	42+45	LT.	V						24			5-6
3D	42+35		LT.	V							1		5-6
1RCP	N.W. QUAD. OF STRUCTURE		LT.	V					23				5
2RCP	N.E. QUAD. OF STRUCTURE		LT.	V					37				5
3RCP	S.W. QUAD. OF STRUCTURE		RT.	V					12				5
4RCP	S.E. QUAD. OF STRUCTURE		RT.	V					11				5
TOTALS					169	1	59	1	83	24	1	1	

CREATED: 2/28/2012

DEPARTMENT OF HIGHWAYS
HENRY COUNTY, OHIO

GENERAL SUMMARY & SUB-SUMMARY

BRIDGE NO. HEN-V-11.80
OVER DITCH 1075
FREEDOM TWP.

Designed:	Drawn:	Checked:	File Name
T.J.S	S.J.K	T.J.S	C:\R13\BRIDGES\V-11.80\GEN-SUMM

BR. V-11.80
HENRY COUNTY

5
6

Scale: 1"=20'
(NO RECORDED R/W)

DRAWING CREATED 2/17/2012

NOTE: ALL ROCK CHANNEL PROTECTION TO BE 18" THICK.

6R CONTRACTOR TO REMOVE 129 L.F. EXISTING GUARDRAIL 41+00 TO EAST SEE GENERAL NOTES SHEET

MEET EX. SHLD. 41+61.5

2RCP 37 C.Y. TYPE D RCP

1RCP 23 C.Y. TYPE D RCP

41+74

2R REMOVE 4 L.F.-12" CMP

3R REMOVE GABIONS

FILL AREA

4R REMOVE 33 L.F.-15" N12 PIPE. DIVERT 15" N12 W/2 45° ELBOWS & 24 L.F. N12 PIPE AS SHOWN. 2D
STA. @ ELBOW = 42+43.4, 14.7' LT.
STA. @ ELBOW = 42+30.6, 27.4' LT.
F/L OUTLET @ 42+18.6, 27.4' LT. = 691.5
REMOVE 22 L.F.-6" RIGID PLAST. & TAP 6" PLAST. INTO 15" N12 PIPE @ POINT OF INTERSECTION. 5R 3D

EVERGREEN BUSH

YARD

24" BUSH

STONE DRIVE

24" N12

MAG NAIL 38+00.01, .04' LT.

GUARDRAIL

TRUE NO. OF POSTS NOT SHOWN

SEC. LINE & C/L SURVEY

C.R. V

R.R. SPK. 2640. 0 N 1/4 SEC. 24 FREEDOM TWP.

R.R. SPK. 52+90.98, 0 NE COR. SEC. 24 FREEDOM TWP.

MAG NAIL 43+99.96, 0.01' RT.

BEGIN PVMN'T REMOVAL & REPLACEMENT, 41+50 MEET EXIST.

END PVMN'T REMOVAL & REPLACEMENT, 42+50 MEET EXIST.

FIELD DR.

FIELD

12" TREE

PED.

BEGIN TRANSITION 41+00

+50

REMOVE 40 L.F. GUARDRAIL & POSTS 7R

12 C.Y. TYPE D RCP 5RCP

11 C.Y. TYPE D RCP 4RCP

BEGIN TRANSITION +70

MEET EX. T/B & TOE 43+00

1R REMOVE STRUCTURE INCLUDES CONC. APPROACH SLAB, CONC. HEADWALL, & CONC. WINGWALLS.

C/L STRUCTURE 42+11.66, 2.33' RT. 1D
(SEE GEN. NOTES SHEET PROP. STR., ADDITIONAL BACKFILL MATERIAL.)

CONTRACTOR NOTE: TONGUE & GROOVE MAY BE OMITTED ON END SECTIONS

EXIST. SFN-3532143
PROP. SFN-3534561

EXISTING STRUCTURE

TYPE: STEEL /BEAM/SIMPLE
SPAN: 21'
BR. ROADWAY WIDTH: 20'
APPROACH ROADWAY WIDTH: 18'
ABUTS: LAID UP STONE W/CONC. STUB WALLS
SKEW: 0°
YEAR BUILT: 1956/REHAB 1985/OLDER ABUTS.

PROPOSED STRUCTURE

TYPE: PRECAST REINFORCED CONC.
4 SIDED BOX SECTIONS
(20' SPAN X 9' RISE)
ROADWAY WIDTH: 30' F/F GUARDRAIL
ROADWAY WIDTH: 18' PAVEMENT
DESIGN LOADING: HL-93 (LRFD)
SKEW: 0°
WEARING SURFACE: ASPHALT CONCRETE

TRANSFER OF SCS B.M. (SCS DATUM)

DO NOT USE SCS BM'S ON THIS PROJECT, DIFFERENT DATUM
'X' ON HEADWALL, SE COR. OF BRIDGE (ELEV. = 695.24)
(HEADWALL WILL BE REMOVED)
TRANSFERED BM TO MAG NAIL, S/SIDE OF P/POLE @ 42+28, 18' LT. (ELEV. = 698.57)

SBM (GPS DATUM)

MAG NAIL @ 38+00.01, 0.04' LT., ELEV. = 699.03
MAG NAIL @ 40+00.00, 0.02' RT., ELEV. = 698.01
MAG NAIL @ 43+99.96, 0.01' RT., ELEV. = 699.67

41+50 698.74
42+00 698.91
42+50 699.07

100 L.F. OF PAVEMENT REMOVAL & REPLACEMENT @ +0.33%

STEEL BEAM
CONC. STUB WALL
(REMOVE) GABIONS
EX. HDWL.
C.B.
6" CONC.
12" CMP OUTLET
SEE PLAN ABOVE
15" N12
15" VCP
6" RIGID PLAST.
15" CONC.
F/L BOX 687.10
686.10
684.35
CONC. CUTOFF WALL
20' SPAN X 9' RISE 4 SIDED CONC. BOX

700
695
690
685

C/L EXIST. PAVEMENT PROFILE

699.16 698.49 698.07 698.49 698.74 699.35 +92 699.23 +07 699.08 +26 699.05 699.74

38 39 40 41 41+50 42 43 44

PLAN — PROFILE

R13/BRIDGES/V-11.80/PLANPROF3

FULL CROSS SECTIONS - STA. 38+00 TO 43+00

EARTHWORK				
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
42+72 SHLD. AREA LT. SIDE	0	12	0	10
42+50 SHLD. AREA LT. SIDE	0	12	0	9
42+30 SHLD. AREA LT. SIDE	0	12		
42+50 PVMN'T EXCAVATION	19	0	17	0
42+26 PVMN'T EXCAVATION	19	0		
43+00 SHLD. AREA RT. SIDE	0	0	0	11
42+70 SHLD. AREA RT. SIDE	0	20	0	15
42+50 SHLD. AREA RT. SIDE	0	20	0	20
42+23 SHLD. AREA RT. SIDE	0	20		
CHANNEL 12' S OF S/END OF STR. (USED LENGTH OF 25' FOR EST. PURPOSES)	29	1	27	1
	29	1		
CHANNEL 20' NW OF N/END OF STR. (USED LENGTH OF 49' FOR EST. PURPOSES)	18	28	33	51
41+92 SHLD. AREA LT. SIDE	18	28		
41+61.5 SHLD. AREA LT. SIDE	1	0	1	0
41+99 PVMN'T EXCAVATION	19	0	34	0
41+50 PVMN'T EXCAVATION	19	0		
41+99 SHLD. AREA RT. SIDE	0	20	0	36
41+50 SHLD. AREA RT. SIDE	0	20	0	19
41+00 SHLD. AREA RT. SIDE	0	0		
			112	172

700 / 695 / 690 / 685

24" BUSH 43+44
12" TREE 43+21
MB 43+18
PB 43+19
MEET EX. T/B & TOE @ 43+00
C.B. 43+15
15" CONC. E.
15" VCP W.
000.00
43+00
699.05
MEET EX. T/B @ 42+78
MEET EX. TOE @ 42+66
BEGIN T/B & TOE TRANSITION @ 42+70
END PAVEMENT REMOVAL & REPLACEMENT @ STA. 42+50
MEET EXISTING
EVERGREEN BUSH
8'
1"/FT.
1/4"/FT.
1/4"/FT.
1"/FT.
8'
5:1
3:1
699.07
42+50
699.07
6" RIGID PLAST. SEE PLAN SHEET
15" TILE @ 42+50 SEE PLAN SHEET
℄ PVMT. & STR.
1.0' STUB WALL
8'
9.0'
9.0'
8'
1.0' STUB WALL
2.33'
SEE PLAN SHEET FOR PIPE LAYOUT
EVERGREEN BUSH
1"/FT.
1/4"/FT.
1/4"/FT.
1"/FT.
698.1
695.1
OUTLET 6" RIGID PLAST. 42+13
STEEL BEAMS
SLOPE
ABUTMENT (LAID UP STONE)
15" N12
WING
698.95
CONC. HEADWALL
WING
CONC. HEADWALL
N.E. WING
(REMOVE) GABIONS
12" CMP
42+12
699.23
S.W. WING
OUTLET 15" N12 42+13
CONC. HEADWALL
REMOVE 4 L.F. 12" CMP
F/L BOX = 687.1
686.1
20' SPAN X 9' RISE 4 SIDED CONC. BOX
CONC. CUTOFF WALL UNDER BOX. (TYPICAL)
1.75' (TYP.)
684.35
SEE PLAN SHEET FOR ADDITIONAL ELEVATIONS & OFFSETS
2'
6" #57 ADDREGATE UNDER FOOTINGS (TYP.)
8' SHLD. @ 41+61.5
MEET EX. SHLD. @ 41+61.5, LT. SIDE
8' SHLD. @ 41+50
P/POLE 41+82
1"/FT.
1/4"/FT.
1/4"/FT.
1"/FT.
3:1
BEGIN PAVEMENT REMOVAL & REPLACEMENT @ STA. 41+50
MEET EXISTING
EX. GUARDRAIL
REMOVE 41+50 TO EAST
698.74
41+50
698.74
NOTE: CONTRACTOR MAY DISPOSE OF ANY UNWANTED DIRT IN SHOULDER AREA (AT THE DIRECTION OF THE ENGINEER) FROM STA. 41+61.5 LT. SIDE TO STA. 38+20 LT. SIDE. DON'T EXCEED 8' SHOULDER @ 1"/FT.
BEGIN T/B & TOE TRANSITION @ 41+00
EX. GUARDRAIL
000.00
41+00
698.49
P/POLE 39+98
EX. GUARDRAIL
000.00 (PROP. C/L PAVEMENT ELEV.)
40+00
698.07 (EX. C/L PAVEMENT ELEV.)
℄-SURVEY & SEC. LINE
(NO RECORDED R/W)
NW WINGWALL
CHANNEL X-SEC. 20'± NW OF N/END OF STR. FOR EST. PURPOSES VIEWING NW
EX. & PROP. T/B
CHANNEL X-SEC. 12'± S OF S/END OF STR. FOR EST. PURPOSES VIEWING N

CREATED 2/22/2012

BRIDGE V-11.80
FREEDOM TWP.

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R13/BRIDGES/V-11.80/XSECT