

CULVERT SCHEDULE SHEET

PROJECT NO NHSX-020-1(204)--3H-97

LOCATION US 20 0.4 mi. E. of Ranklin Ave. to E. of

FILE NO

PIN NO

24-97-020-020

DESIGNER IN CHARGE

ROAD Flatterv\Bell

DRAINAGE Ellis\Diedrich

A

B

BW

C

Z

E

M

T

X

MW

CLEAR

TRAFFIC COUNT

VPD YR

SEE ROAD DESIGN TYPICAL NO.

Date

DESIGN NUMBER	DRAINAGE AREA	PRESENT STRUCTURE		PROPOSED STRUCTURE																				
		SURVEY STATION	DESCRIPTION	LOCATION		DR	SIZE	KIND	LGTH NEW CONST	DESIGN COVER (H)	APRON		ADAPTERS DR-122		FLUME DESCRIPTION	ELEVATION						DIMENSION		
				STATION	OFFSET						IN	OUT	TYPE	NO.		GRADE	LEFT	RIGHT	OTHER	OTHER	DR-205 INLET APRON TOP ELEV	TOTAL		TRENCH LESS TOTAL
																						LEFT	RIGHT	
	-			4047+28.58		DR-621	30	RCP	14	23.34	1		C-1	1		1265.79	1240.66	1240.66				99.01		0
	-			4049+54.94			4 x 6	RCB	12	2.52						1263.47	1255.29	1253.78				52.95		0
	-			4065+96.49		DR-621	30	RCP	12	5.67		1	C-1	1		1193.85	1180.17	1181.06				67.76		0
	-			4075+11.91		DR-613	24	RCP	60	0.83	1	1				1182.03	1175.38	1179.76			1179.76	46.85	25.29	0
	-			4076+67.90		DR-601	36	RCP	168	5.32	1	1				1182.51	1172.03	1177.02			1178.27	57.38	126.61	90
	-			4087+11.00		DR-613	24	RCP	64	2.03	1	1				1191.83	1184.79	1188.28			1189.07	46.49	29.65	0
	-			4097+32.08		DR-601	48	RCP	164	5.92	1	1				1174.70	1162.51	1168.52				56.74	123.25	84
	-			21+44.50		DR-601	48	RCP	182	6.21	1	1				1155.31	1144.35	1139.58				55.39	142.61	94

RECEIVED
TO ROAD DESIGN
TO FINAL DESIGN

NO. DESIGNS
NO. PIPES
DESIGNS

	NS (E)				DIKE					DISPOSITION OF PRESENT	REMARKS
	EXTENSIONS		SKEW AHEAD (DEGREES)		CNTR	LT/RT	LOCATION STATION	TOP ELEVATIO	TOP ELE		
	LEFT	RIGHT	LEFT	RIGHT							
0	14						0				Remove inlet apron and approximately 14' of pipe or just past the last separated joint of existing pipe. Extend with 14' of 2000D pipe and one DR-201 apron with a DR-122 connection to existing pipe. Ditch to inlet. 14°51'28.6"LA
0	12						0				Remove apron and extend 12' with Road Design Detail 510-04. Install according to section 2416 of the Standard Specifications.
0	12						0				Remove outlet apron and excavate the foreslope as needed approximately 12' of pipe or just past the last separated joint of existing pipe. Relay 12' of 2000D pipe with DR-121 connected pipe joints with one DR-201 apron. Ditch to outlet.
5.29	0						0				Culvert is designed to be cut and cover. Lay one DR-141 single bevel D section bevels upstream with a DR-205 apron attached. Endwall flowline elevation 1179.763. Lay 60' of 24" 2000D RCP with one DR-201 apron on outlet end.
26.61	90						0				Jack 90' of new 36" RCP under EB lanes. lay 78' of new 36" RCP under West bound lanes at STA.4076+67.90. Existing pipe at STA.4076+77.90 will be plugged and abandoned with flowable mortar. Jacking will be done on outlet end after WB lanes are removed.
9.65	0						0				Culvert is designed to be cut and cover. Lay one DR-141 single bevel D section bevels upstream with a DR-205 apron attached. Endwall flowline elevation 1189.075. Lay 64' of 24" 2000D RCP with one DR-201 apron on outlet end.
23.25	84						0				Jack 84' of new 48in RCP under EB lanes. Lay 80' of new 48in RCP under West bound lanes at STA.4097+32.08 . Existing pipe at STA.4097+22.08 will be plugged and abandoned with flowable mortar. Jacking will be done on outlet end after WB lanes are removed.
42.61	94						0				Jack 94' of new 48in RCP under EB lanes. Lay 88' of new 48in RCP under WB lanes at

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DESIGN	DRAINAGE AREA	PRESENT STRUCTURE		PROPOSED STRUCTURE																						
NUMBER		SURVEY STATION	DESCRIPTION	LOCATION		DR	SIZE	KIND	LGTH NEW CONST	DESIGN COVER (H)	APRON		ADAPTERS DR-122		FLUME DESCRIPTION	ELEVATION						DIMENSION				
				STATION	OFFSET						IN	OUT	TYPE	NO.		GRADE	LEFT	RIGHT	OTHER	OTHER	DR-205 INLET APRON TOP ELEV	TOTAL		TRENCH LESS TOTAL		
																						LEFT	RIGHT			
	-			26+29.84		DR-601	54	RCP	182	6.13	1	1					1158.02	1146.91	1141.92					49.99	147.94	98
	-			34+47.47		DR-621	30	RCP	8	9.35	1		C-1	1			1162.68	1150.61	1150.35					58.85		0
	-			47+01.36		DR-601	24	RCP	72	2.92	1	1					1181.18	1175.41	1175.61			1176.4	46.37	37.87	0	
	-			49+23.51		DR-621	30	RCP	6	5.07	1		C-1	1			1184.87	1177.05	1176.75					49.71		0
	-			59+44.01		DR-621	24	RCP	6	6.04	1		C-1	1			1211.54	1203.80	1203.29					48.14		0
	-																								0	

8

6

6

RECEIVED
TO ROAD DESIGN
TO FINAL DESIGN

NO. DESIGNS
NO. PIPES
DESIGNS

17.94
98
0
0
0
0
0
0
0

				DIKE					DISPOSITION OF PRESENT	REMARKS
NS (E)		SKEW AHEAD (DEGREES)		CNTR	LT/RT	LOCATION STATION	TOP ELEVATIO	TOP ELE		
EXTENSIONS										
LEFT	RIGHT	LEFT	RIGHT							
										STA.21+44.50 . Existing pipe at STA.21+54.51 will be plugged and abandoned with flowable mortar. Jacking will be done on inlet end after WB lanes are removed.
						0				Jack 98' of new 54in RCP under EB lanes. Then lay 84' of new 54in RCP under WB lanes at STA.26.29.84 . Existing pipe at STA.26+40.13 will be plugged and abandoned with flowable mortar. Jacking will be done on inlet end after WB lanes are removed.
8						0				Remove inlet apron and excavate the foreslope as needed approximately 8' of pipe or just past the last separated joint of existing pipe. Relay 8' of 2000D pipe with DR-121 connected pipe joints with one DR-201 apron. Ditch to inlet.
						0				Culvert is designed to be cut and cover. Remove existing pipe lay 72' of 24" 2000D RCP with one DR-201 and one DR-205 Aprons. Endwall flowline elevation 1176.403
6						0				Remove inlet apron and excavate the foreslope as needed approximately 6' of pipe or just past the last separated joint of existing pipe. Relay 6' of 2000D pipe with DR-121 connected pipe joints with one DR-201 apron. Ditch to inlet.
6						0				Remove inlet apron and excavate the foreslope as needed approximately 6' of pipe or just past the last separated joint of existing pipe. Relay 6' of 2000D pipe with DR-121 connected pipe joints with one DR-201 apron. Ditch to inlet.
						0				