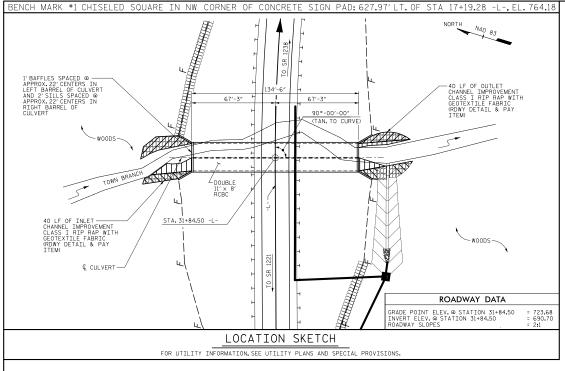
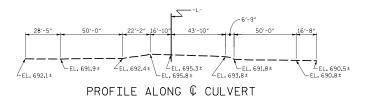
CULVERT AS-BUILT PLAN VIEW EXAMPLE







ASSEMBLED BY

DATE :MAY 2015

DATE: JULY.1990 DATE: JULY.1990

SPECIAL

STANDARD

TOTAL STRUCTURE QUANTITIES

CLASS A CONCRETE BARREL @ 3.854 CY/FT WINGS,ETC. SILLS/BAFFLES TOTAL	518.4 C.Y. 24.4 C.Y. <u>8.6 C.Y.</u> 551.4 C.Y.
REINFORCING STEEL BARREL, SILLS, BAFFLES WINGS, ETC. TOTAL	75,844 LBS. 1,453 LBS. 77,297 LBS.
FOUNDATION CONDITIONING MATERIAL	231 TONS

CULVERT EXCAVATION	LUMP SUM
PLACEMENT OF NATURAL STREAM BED MATERIAL	LUMP SUM

HYDRAULIC DATA

DESIGN DISCHARGE	= 1,000 CFS
FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEVATION	= 50 YR.
	= 698.2
DRAINAGE AREA	= 1.3 SQ MI
BASE DISCHARGE (Q 100)	= 1,100 CFS
BASE HIGH WATER ELEVATION	= 698.82

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 4,700 CFS
FREQUENCY OF OVERTOPPING FLOOD	= 500 YR +
FREQUENCY OF OVERTOPPING FLOOD OVERTOPPING FLOOD ELEVATION	= 724.0

NOTES

F.A. PROJECT NO.: HSIP-1221(18)

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

DESTGN ETLL = 24

DETAILED DRAWINGS FOR FALSEWORK AND FORMS FOR THIS CULVER' SHALL BE SUBMITTED, SEE SHEET SN.

STEEL IN THE BOTTOM SLAB MAY BE SPLICED AT THE PERMITTED JOINT AT THE CONTRACTOR'S OPTION EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL SPACED TO LIMIT THE POURS TO A MAXIMUM OF TO FT. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION

A 3 FOOT STRIP OF GEOTEXTILE SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED. CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4"OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS, SILLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH FACES OF THE INTERIOR WALL ABOVE LOWER WALL CONSTRUCTION JOINT, THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS, EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

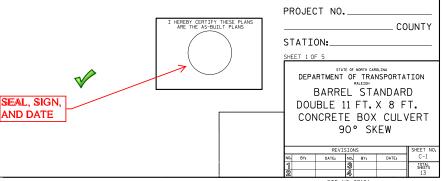
FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

 $3\ensuremath{{''}}\xspace$ WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

NATURAL STREAM BED MATERIAL SHALL BE USED TO BACKFILL THE CULVERT BETWEEN SILLS AND BAFFLES. SEE SPECIAL PROVISIONS FOR "PLACEMENT OF NATURAL STREAM BED MATERIAL."

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONB 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL INW 30 INCH SAMPLES OF EACH MUST HEND HE SPLICED WITH REFLACEMENT BARS OF THE SIZE WITH REPLACEMENT BARS OF THE SIZE THINTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF CONTRIBUTION OF THE SAMPLES OF THE SIZE OF THE SAMPLES OF THE SA



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