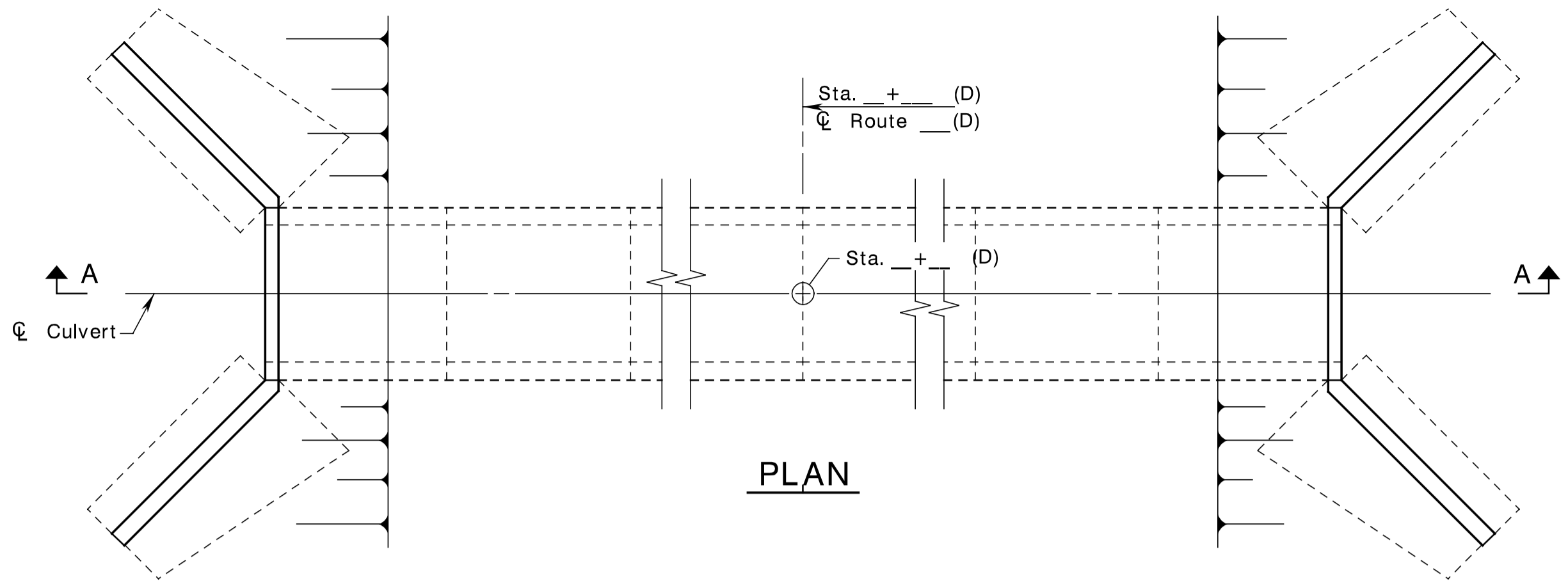


STATE	FEDERAL PROJECT NO.	SHEET	TOTAL SHEETS
N. J.			
STRUCTURE NO.			
STRUCTURE NAME			

INDEX OF DRAWINGS	
SHEET NO.	DESCRIPTION
B1	GENERAL PLAN & ELEVATION
B2	CULVERT DETAILS
B3	POST-TENSIONING DETAILS
B4	CAST-IN-PLACE CONCRETE APRON, EXCAVATION & GUIDERAIL DETAILS
B5	CAST-IN-PLACE GUTTERWALL & FOOTING DETAILS

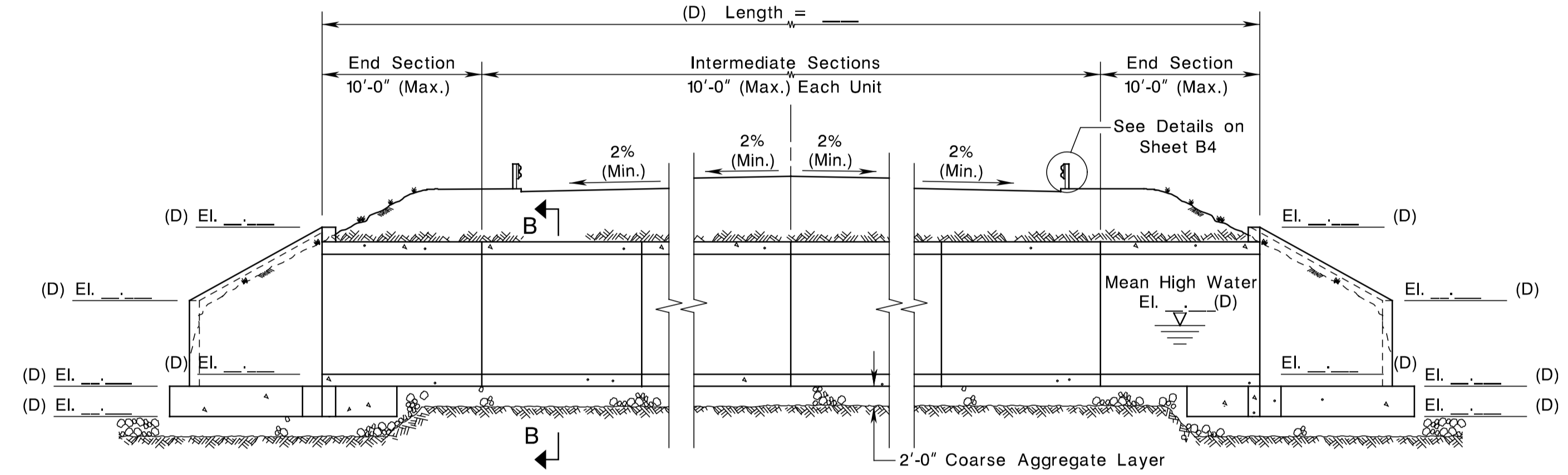
GENERAL NOTES

- DESIGN SPECIFICATIONS:
1996 AASHTO Specifications for Highway Bridges (with current interims) as modified by Section 3A of NJDOT Design Manual for Bridges and Structures
 - CONSTRUCTION SPECIFICATIONS:
The NJDOT Standard Specifications for Road and Bridge Construction with current Supplemental Specifications, as modified by the Special Provisions.
 - LIVE LOAD:
AASHTO HS20 + 25% (HS 25) or tandem 24 KIPS axles at 4'-0" centers, whichever governs.
 - CONCRETE DESIGN STRESSES:
(a) Specified Design Compressive Strength (f'c)
(In accordance with the Retest Limit for Pay-adjustment Item as specified in Table 914-4 of the NJDOT Standard Specifications and as modified by the Bridge Special Provisions)
Class A.....4,000 PSI
Class B.....3,000 PSI
Class P.....5,000 PSI
(The retest limit for non-pay-adjustment shall be as specified on the last line of Table 914-4 of the NJDOT Standard Specifications and as modified by Bridge Supplementary Specifications.)
(b) Class Design Strengths:
(In accordance with Table 914-3 of the NJDOT Standard Specifications)
Class A.....4,600 PSI
Class B.....3,700 PSI
Class P.....5,500 PSI
(c) Allowable Stress, Extreme Fiber in Compression (fc)
Class A.....1,600 PSI
Class B.....1,200 PSI
Class P.....2,000 PSI
 - REINFORCEMENT STEEL:
(a) ASTM A615 (Grade 60) (fs) = 24,000 PSI
Top mat of rebars shall be corrosion protected if earth fill over the precast unit is less than 2'-0". (Refer to section 26 of this manual for types of corrosion protected reinforcement steel that can be used)
 - Provide 1/2" Dia. 7 wire Grade 270 conforming to AASHTO M203 or 3/4" Dia. high tensile strength steelbars conforming to AASHTO M275. No splices to be permitted.
 - Install strands in precast sections. Stress each strand to a tension of 30 KSI over the cross section of any section.
 - BORINGS:
(a) Indicates location of borings
Log No.
 - FOUNDATION DESIGN CRITERIA
(Summary on Project to Project Basis)
 - Estimated Cost \$ (D) Based on (Insert Year) prices.
- * The note should be modified to reflect applicable year and updated Specifications.
** Remove this note at final submission.

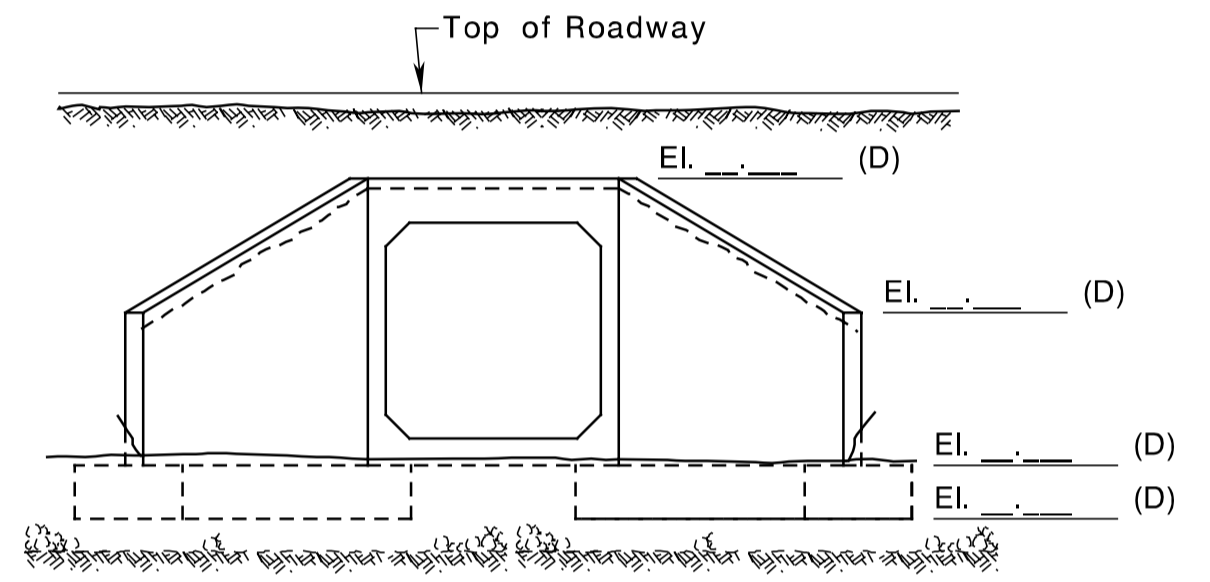


PLAN

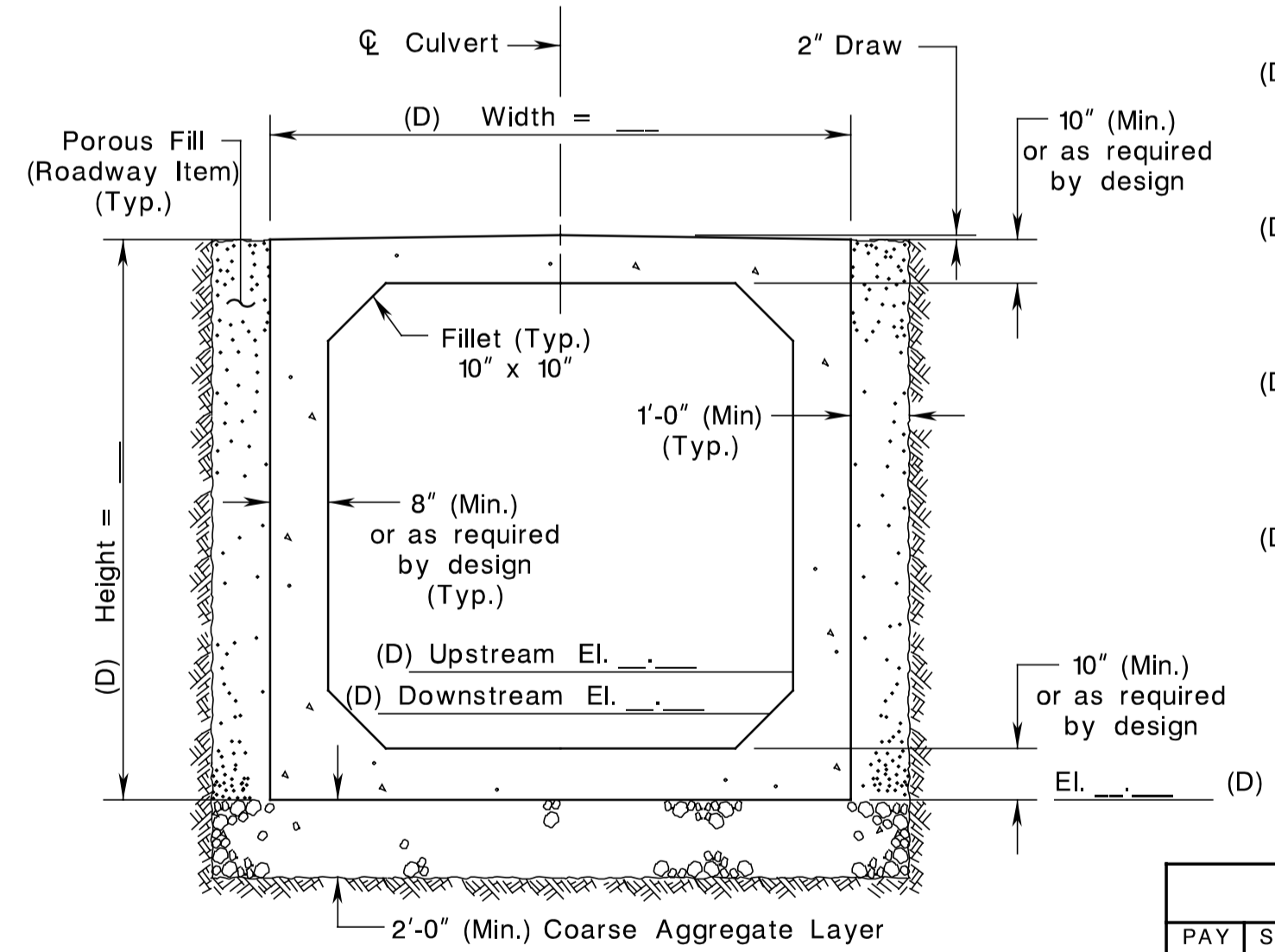
HYDRAULIC AND HYDROLOGIC DATA	
DRAINAGE AREA (MI ²)	
DESIGN DISCHARGE (FT ³ /S)	
DESIGN WATER SURFACE ELEVATION (FT)	
ENERGY LINE ELEVATION (FT)	
FREQUENCY	50 YR, 100 YR.



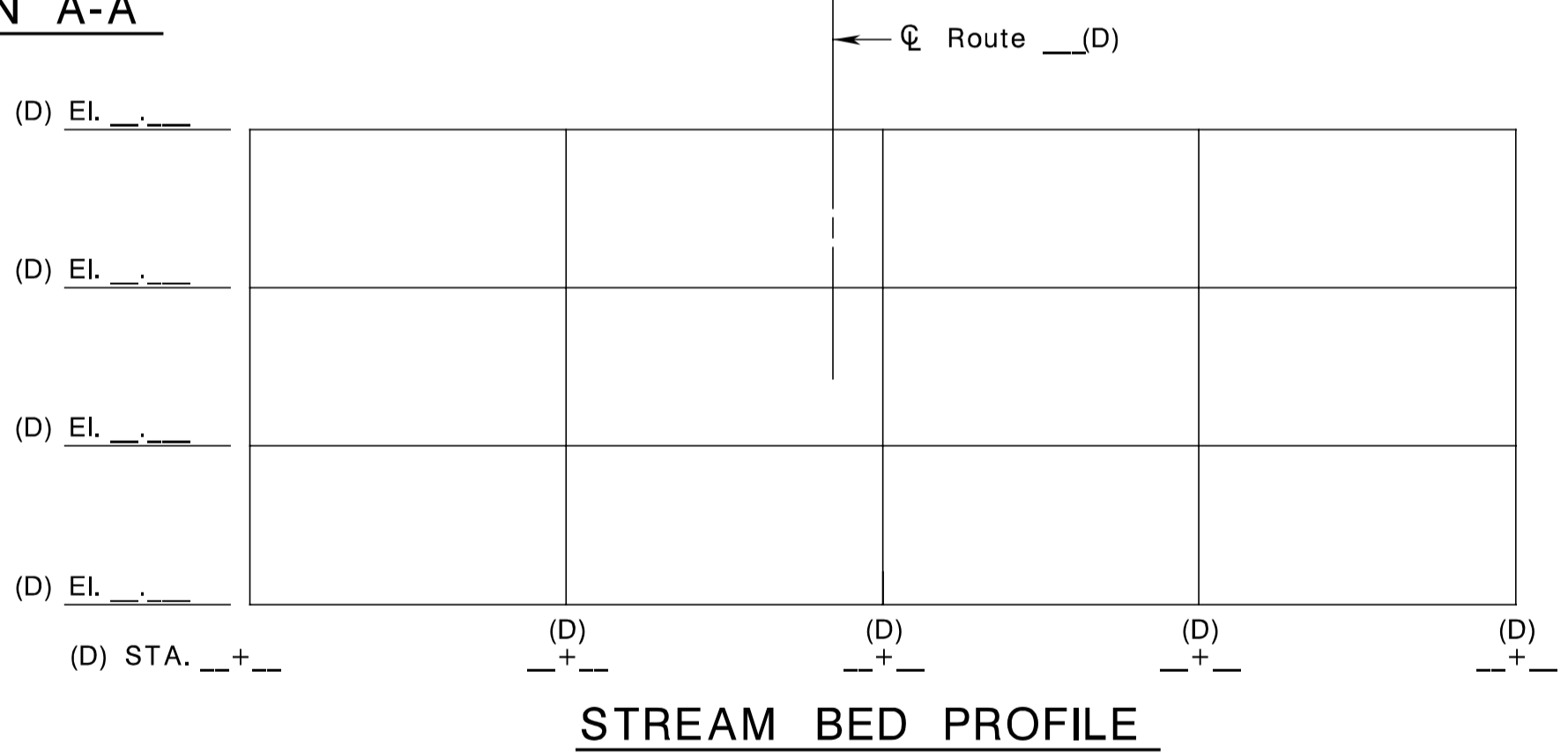
SECTION A-A



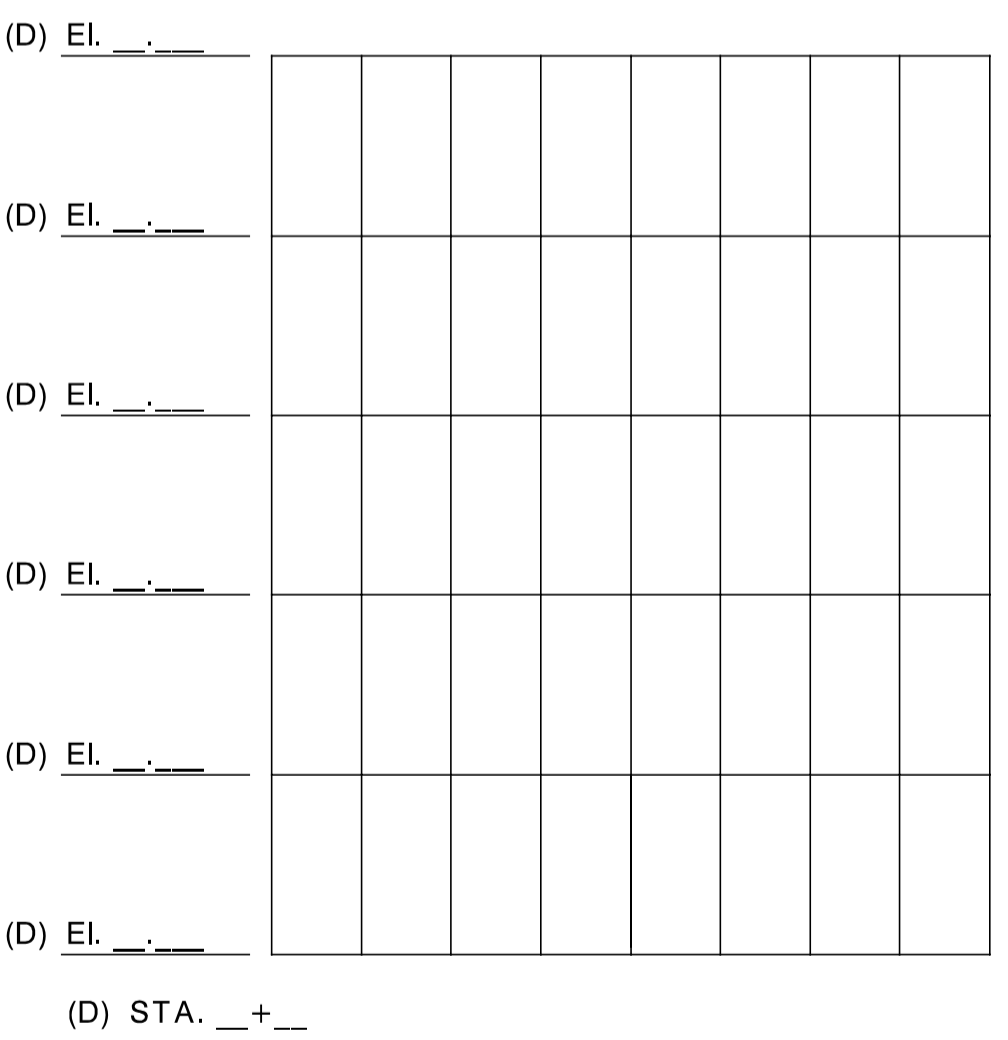
SIDE ELEVATION



SECTION B-B



STREAM BED PROFILE



PROPOSED PROFILE

SUMMARY OF QUANTITIES				
PAY ITEM NO.	STANDARD ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY
		CLEARING SITE, STRUCTURE (CULVERT)	LUMP SUM	
		COARSE AGGREGATE LAYER	C.Y.	
		BRIDGE EXCAVATION	C.Y.	
		FOUNDATION EXCAVATION	C.Y.	
		COFFERDAMS	LUMP SUM	
		REINFORCED CONCRETE BOX CULVERT, PRECAST	L.F.	
		CONCRETE IN STRUCTURES, FOOTINGS	C.Y.	
		CONCRETE IN STRUCTURES, RETAINING WALLS	C.Y.	
		REINFORCEMENT STEEL IN STRUCTURES	LBS.	
		REINFORCEMENT STEEL IN STRUCTURES, EPOXY COATED	LBS.	

NOTE TO THE DESIGNER:

- The designer shall complete all the title block information and items designated with (D) for including any PLATES into the contract plans.
- Insert or delete Pay Items as required.

CONTROL SECTION		JOB NO.	
DES. BY		CHK. BY	
DWN. BY		CHK. BY	
EST. BY		CHK. BY	
SPECS. BY			
IN CHARGE OF _____			

BDC04MB-01

STANDARD DRAWING PLATE 2.11-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

**SINGLE CELL PRECAST R.C. BOX CULVERT
GENERAL PLAN & ELEVATION**

ROUTE _____ SECTION _____

MUNICIPALITY _____ COUNTY _____

SCALE: _____

SHEET NO. _____ OF _____

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