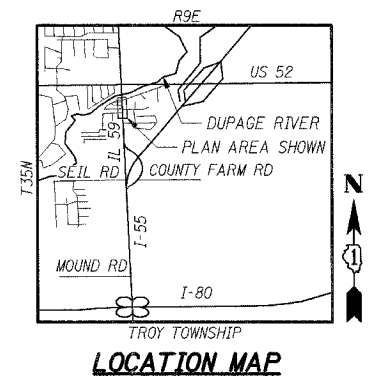


PLAN



LEGEND:

- Prop. Storm Sewer, See Note 2
- Prop. Manhole, See Note 2
- Prop. Junction Chamber
- ▨ Prop. Rip Rap, See Note 2
- Exist. Storm Sewer
- Exist. Manhole
- T— Exist. Telephone Line
- W— Exist. Water Main Line
- G— Exist. Gas Main Line

Notes:
 1. Work this sheet with Shts. DS-2 thru DS-11.
 2. See Drainage Plans for details.

DESIGN SPECIFICATIONS:
 2002 AASHTO Standard Specifications for Highway Bridges

DESIGN LOADING:
 Live Load: HS20-44
 Earth Pressure = 40 pcf Equivalent Fluid Weight
 Live Load Surcharge = 2'
 Earth Mass = 120 pcf

DESIGN STRESSES:
 Concrete, $f'_c = 3,500$ psi
 Reinforcement, $f_y = 60,000$ psi

GENERAL NOTES:
 1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment (Special)	Cu Yd	36
Structure Excavation	Cu Yd	646
Rock Excavation for Structures	Cu Yd	88.5
Concrete Structures	Cu Yd	143.5
Furnishing and Erecting Structural Steel	lbs	1,640
Reinforcement Bars	lbs	34,620
Geocomposite Wall Drain	Sq Ft	243
Frames, Type 1	Each	7
Lids, Type 1, Closed Lid	Each	7
Temporary Soil Retention System	Sq Ft	583

INDEX OF SHEETS:

- DS-1 DRAINAGE STRUCTURES; OVERALL PLAN I
- DS-2 DRAINAGE STRUCTURES; OVERALL PLAN II
- DS-3 DRAINAGE STRUCTURE 1; PLAN AND DETAILS
- DS-4 DRAINAGE STRUCTURE 1; DETAILS
- DS-5 DRAINAGE STRUCTURE 5; PLAN AND DETAILS
- DS-6 DRAINAGE STRUCTURES 6, 9, 22, 25 AND 37; PLAN AND DETAILS
- DS-7 DRAINAGE STRUCTURES 6, 9, 22, 25 AND 37; DETAILS AND BILLS OF MATERIAL
- DS-8 DRAINAGE STRUCTURE 30; PLAN AND DETAILS
- DS-9 DRAINAGE STRUCTURES 203 & 204; PLAN AND DETAILS
- DS-10 TEMPORARY SOIL RETENTION SYSTEM

SHT. DS-1 OF DS-11

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAI 59 AT FAP 338 ILLINOIS ROUTE 59
 SECTION: (26, 26HB-1 & 114) R-2

**DRAINAGE STRUCTURES
 OVERALL PLAN I**

DATE: 03/14/08
 DRAWN BY: BGK
 CHECKED BY: TMH

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERING ARCHITECT PLANNERS
 80 N. WESTLAWN AVE. CHICAGO, IL 60610
 TELEPHONE: 312.616.2000

\\ORACORP\POL\GDN... \AL\TOP\H6\GDN... \UTIL\OROP\GDN... \RD\W\OROH\GDN... \YTB\ORH\GDN... \V\W\OROH\GDN... \S\UIR\OR\GDN... \S\UIR\OR\GDN...
 3-13-2008, 12:11:40
 pen: rtabler; N/A