Benchmark: Chiseled "□" at Southwest Corner of Bridge Deck of S.N. 098-0003. Elev. = 580.79

Existing Structure: SN 098-0003 to be removed. Originally built in 1924 as Route 5813 Section 11 B. Single span, prestressed concrete box beam with closed abutments on pile supported footings. 47'-4" Bk. to Bk. abutments. Superstructure was replaced and widened in 1971.

Traffic to be maintained using detour.

No Salvage.

WATERWAY INFORMATION

DRAINAGE AREA= 90.4 SQ. MI. LOW GRADE ELEV.= 581.2 (Exist./Prop.) @ Sta. 424+50

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT. EXIST.	OPENING SQ. FT. PROP.	NAT. H.W.E.	HEAD - FT. EXIST.	HEAD - FT. PROP.	HEADWATER EL. EXIST.	HEADWATER EL. PROP.
	10	1635	360	517	578.3	0.2	0.4	578.4	578.6
DESIGN	50	2247	410	646	579.9	0.7	0.4	580.6	580.3
OVERTOP (E)	90	2400	410	-	580.3	0.9	-	581.2	-
BASE	100	2483	410	685	580.4	1.0	0.5	581.4	580.9
OVERTOP (P)	250	2700	-	717	580.8	-	0.4	-	581.2
MAX. CALC.	500	3016	410	772	581.5	1.3	0.3	582.8	581.8

10 year velocity through existing bridge = 4.5 fps
10 year velocity through prop. bridge = 3.2 fps

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 203	*	WHITESIDE	1	1

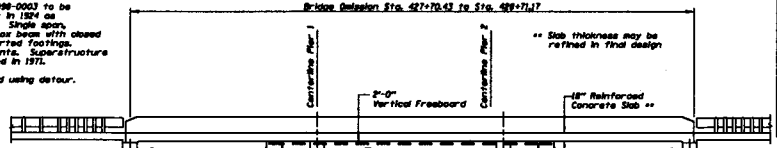
SHEET NO. 1 OF 1 SHEETS

* 11BR-1

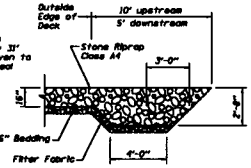
APPROVED

AUG 0 3 2005

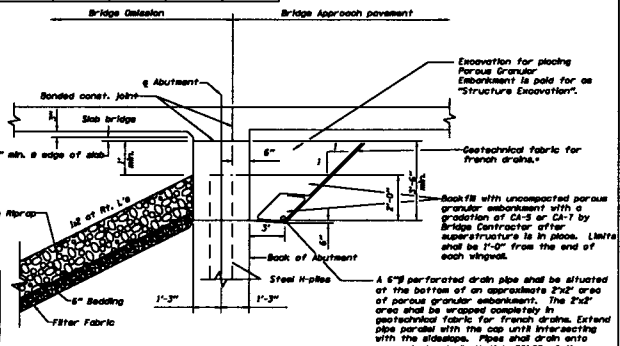
AS A BASIS FOR PREPARATION OF DETAILED PLANS



ELEVATION



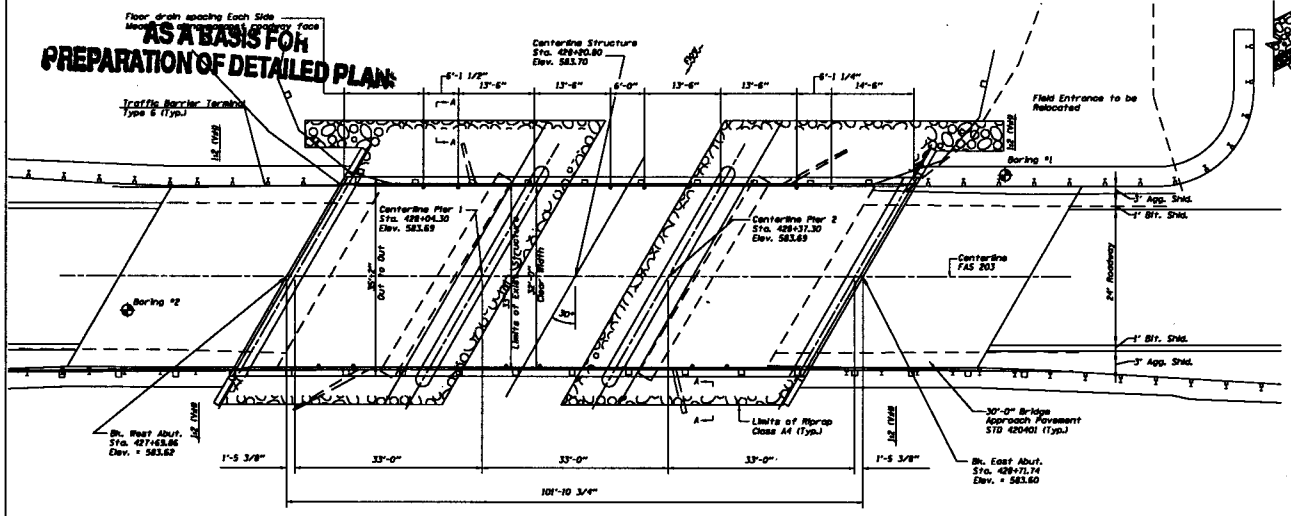
SECTION A-A



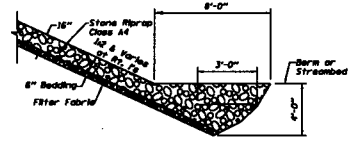
SECTION THRU INTEGRAL ABUTMENT

Dimensions at right angles

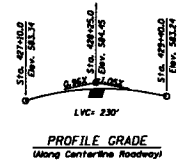
* Included in the cost of "Porous Granular Embankment"



PLAN

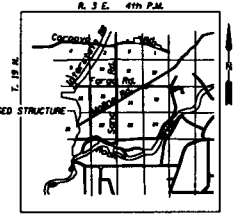


TOE STONE RIPRAP TREATMENT

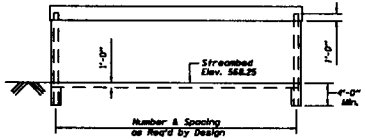


PROFILE GRADE

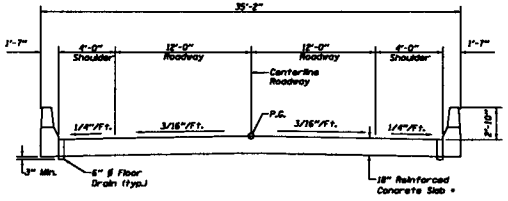
(Along Centerline Roadway)



LOCATION SKETCH



PIER SKETCH



PROPOSED CROSS SECTION

* Slab thickness may be refined in final design.

HIGHWAY CLASSIFICATION

FAS Route	203
Class:	Major Collector
A.D.T.:	3100 (2008) 6800 (2028)
A.D.T.T.:	6.5%
D.H.V.:	680 (2028)
Design Speed:	55 mph
Posted Speed:	55 mph

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

Field Units

f'c = 3,500 psi (Substructure)

fy = 60,000 psi (reinforcement)

SEISMIC DATA

S.P.C. A
A= 0.04
S= 1.0

GENERAL PLAN
FAS ROUTE 203 (MOLINE ROAD)
OVER MEREDOSIA DITCH
SECTION 11BR-1
STA. 428+20.80
WHITESIDE COUNTY
SN 098-0111

FIGURE 6