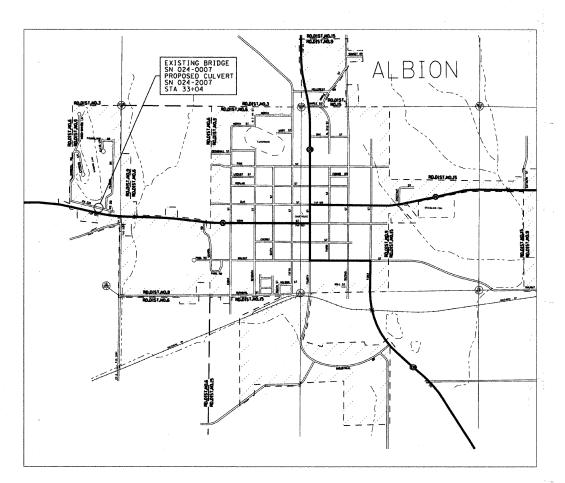
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 823 (OLD IL 15)
SECTION 21B-1
PROJECT: ACF-Q823(OII)
BRIDGE REPLACEMENT WITH BOX CULVERT EDWARDS COUNTY

C-97-144-06



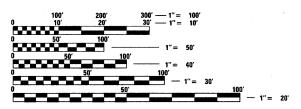
GROSS LENGTH = 507 FT. = 0.10 MILE NET LENGTH = 507 FT. = 0.10 MILE

FOR INDEX OF SHEETS, SEE SHEET NO. 2

 \bigcirc

 \circ

ADT (2007) = 225



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

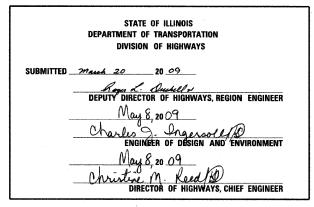
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: MARK DAUGHERTY PROJECT MANAGER: BRIAN J. BIERMAN

CONTRACT NO. 74213

D-97-089-06





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

PERIMETER EROSION BARRIER IS FOR PLACEMENT AT THE TOE OF THE PROPOSED FILL SLOPE ALONG THE TOTAL LENGTH OF THE PROJECT. EROSION CONTROL BLANKET IS FOR PLACEMENT ON ALL NEW SLOPE CONSTRUCTION.

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING-LINE 4 INCH CONSISTS OF 92 FEET OF WHITE AND 30 FEET OF YELLOW.

AGGREGATE FOR AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE OR RAP.

THE REMOVAL OF ALL EARTHWORK, SUB-GRADE AND PAVEMENT WITHIN THE LIMITS OF THE EXISTING BRIDGE STRUCTURE SHALL BE INCLUDED IN THE COST OF THE PAY ITEM REMOVAL OF EXISTING STRUCTURES.

ALL EARTHWORK AND SUB-GRADE REMOVAL NECESSARY TO FACILITATE THE REMOVAL OF THE EXISTING BRIDGE STRUCTURE WHILE MAINTAINING SLOPE STABILITY (1: 1 MINIMUM) SHALL BE INCLUDED IN THE COST OF THE PAY ITEM REMOVAL OF EXISTING STRUCTURES. ALL PAVEMENT REMOVAL IN THESE AREAS WILL BE PAID FOR AS PAVEMENT REMOVAL.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF ACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

FILE NAME = USER NAME = \$USER\$ DESIGNED - REVISED \$FILEL\$ PLOT SCALE = \$SCALE\$ CHECKED - REVISED PLOT DATE = \$DATE\$ DATE - REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS
3	SUMMARY OF QUANTITIES
4-5	TYPICAL SECTIONS
6	PLAN SHEET
7	TRAFFIC CONTROL PLAN
. 8	RIPRAP DETAILS
9-11	BOX CULVERT DETAILS
12	SOIL BORING
13-24	CROSS SECTIONS

and army	STD. NO.	DESCRIPTION
	000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
	001001-02	AREAS OF REINFORCEMENT BARS
	001006	DECIMAL OF AN INCH AND OF A FOOT
	420001-07	PAVEMENT JOINTS
	420101-04	24' JOINTED PCC PAVEMENT
	515001-03	NAME PLATE FOR BRIDGES
	630001-08	STEEL PLATE BEAM GUARDRAIL
	630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
	630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
	635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
	635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
	701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
	701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
	701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
	701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
	701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
	701901-01	TRAFFIC CONTROL DEVICES
	780001-02	TYPICAL PAVEMENT MARKINGS

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

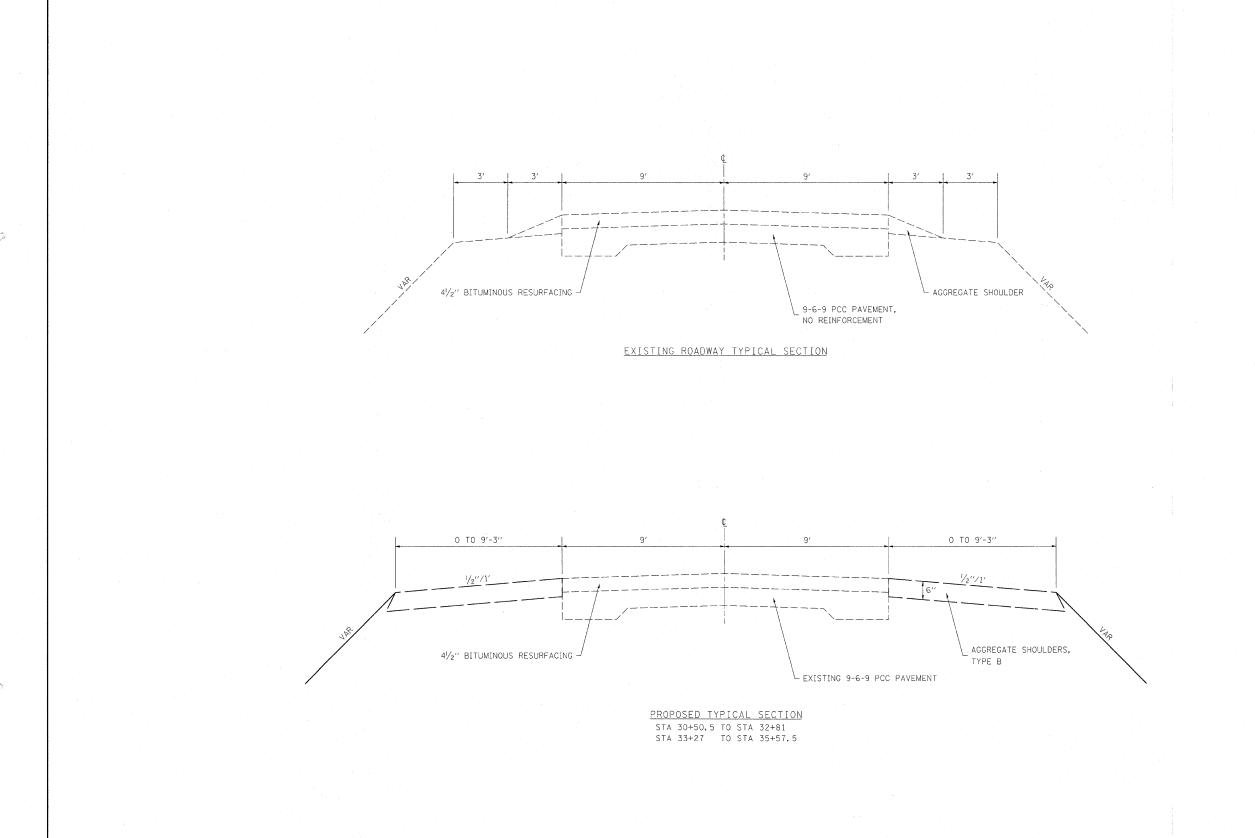
781001-03

_						
I		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
ı	GENERAL NOTES, INDEX OF SHEETS, & LIST OF HIGHWAY STANDARDS	823	218-1	Edwords	24	2
ŀ				CONTRACT	NO.	74213
1	SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

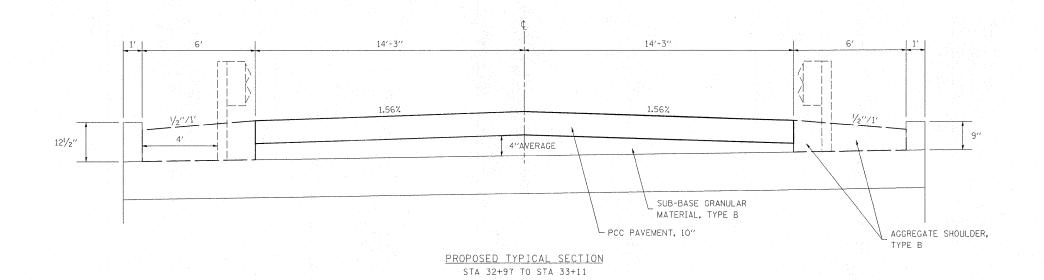
	SUMMARY OF QUANTITIES		RURAL TOTAL	CONSTRUCTIO	N TYPE CODE
CODE NO	ITEM	UNIT	OUANTITIES BOY.FED. 20% STATE	Y007	
20200100	EARTH EXCAVATION	CU YD	145	145	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	397	397	
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2	0. 2	
25100630	EROSION CONTROL BLANKET	SQ YD	597	597	
28000400	PERIMETER EROSION BARRIER	FOOT	752	752	
28100109	STONE RIPRAP, CLASS A5	SQ YD	300	300	
28200200	FILTER FABRIC	SQ YD	546	546	
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	30	30	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	146	146	
44000100	PAVEMENT REMOVAL	SQ YD	52	52	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	239	239	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
51500100	NAME PLATES	EACH	1	1	
54001000	BOX CULVERT END SECTIONS	EACH	2	2	
54011212	PRECAST CONCRETE BOX CULVERT 12' X 12'	FOOT	42.5	42.5	
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	312.5	312.5	
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	37.5	37.5	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	· 4	4	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	- 4	4	
67100100	MOBILIZATION	L SUM	1	. 1	
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	122	122	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	. 4	4	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
				-	
				·	
	7				

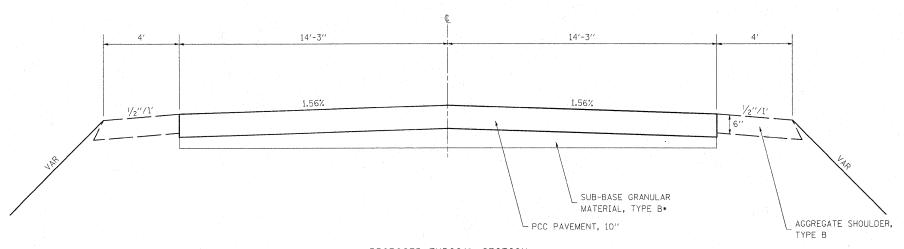
* Specialty Items

FI	LE NAME =	USER NAME = \$USER\$	DESIGNED - «	REVISED -			ALLERA BY OF ALLER THE					F.A.P.	SECTION	COUNTY	TOTAL SHEET		
\$F	ILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES					823	21R-1	Edwards	24 3			
		PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	·			TRANSPORTATION							CONTRAC	T NO. 74213
		PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT			



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -		TYPICAL SECTIONS			F.A.P.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
o:\pw_work\PWIDOT\STEFFENMK\dms5229I\D	74213-sht-typ.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		THIOME DESTROYS		823	21B-1	Edwards 24 4
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO. 74213
	PLOT DATE = 3/19/2009	DATE -	REVISED ~		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT

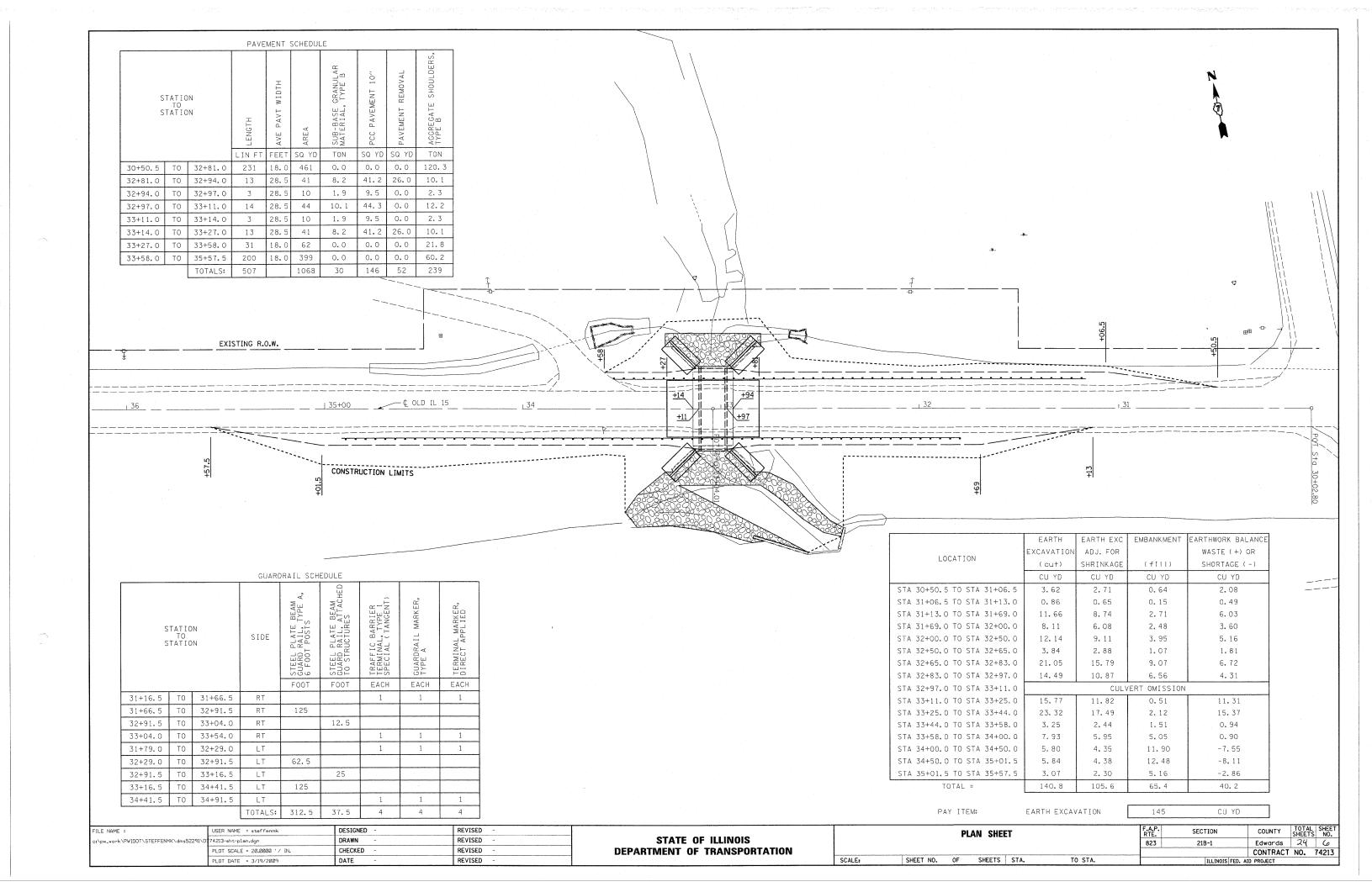


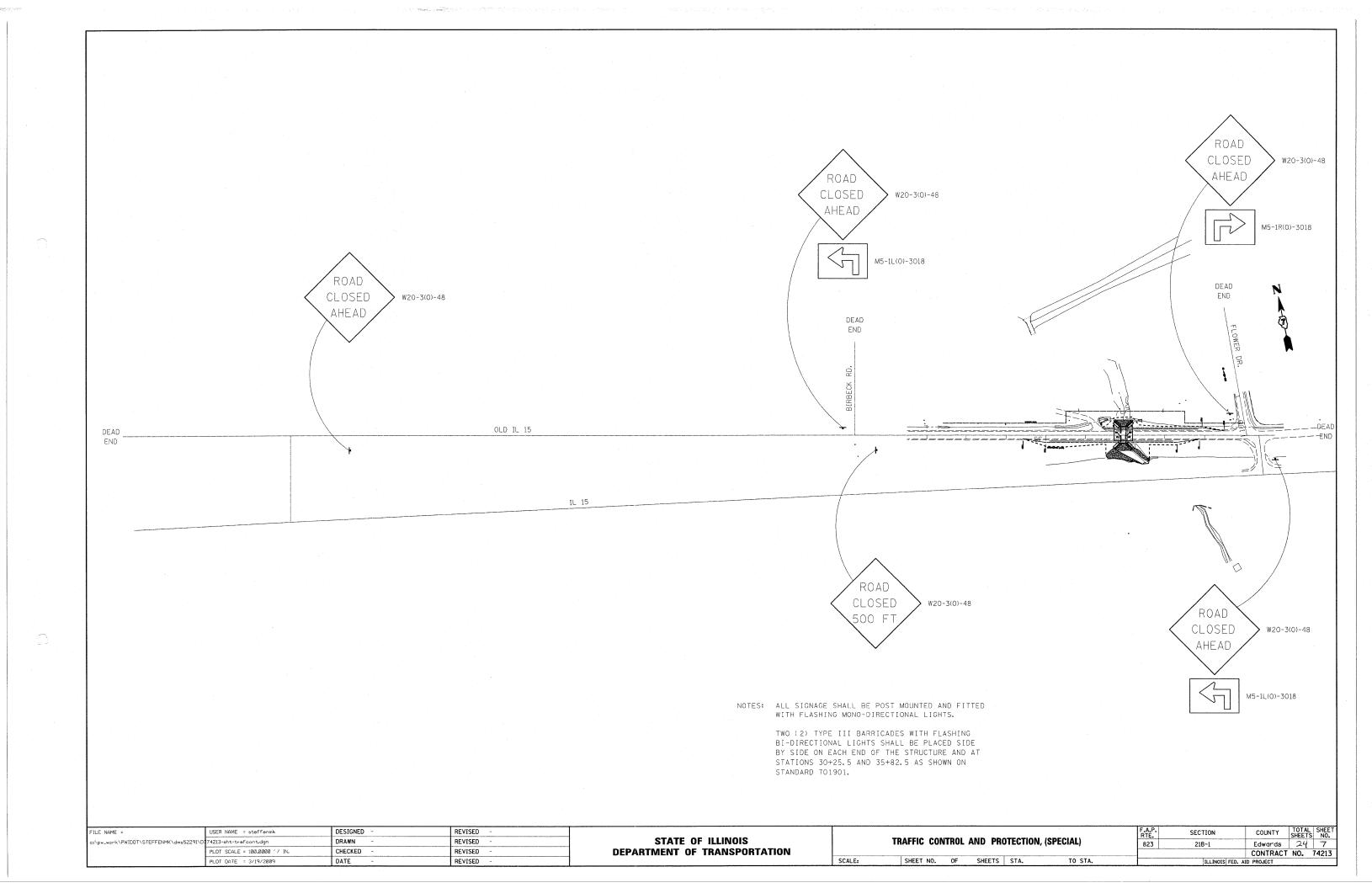


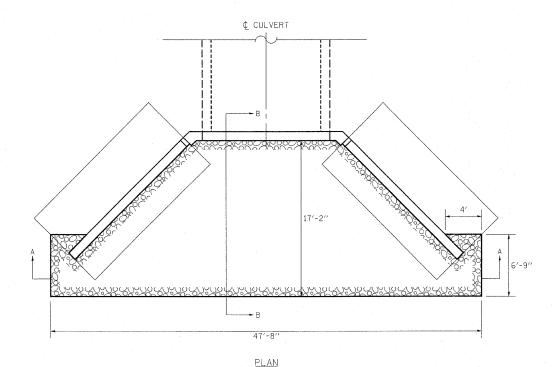
PROPOSED TYPICAL SECTION
STA 32+81 TO STA 32+97
STA 33+11 TO STA 33+27

• ONCE EXISTING RESURFACING AND PCC PAVEMENT IS REMOVED. PLACE SUB-BASE GRANULAR MATERIAL, TYPE B AS NEEDED TO ALLOW FOR NEW PCC PAVEMENT 10" (3 1/2" AVERAGE).

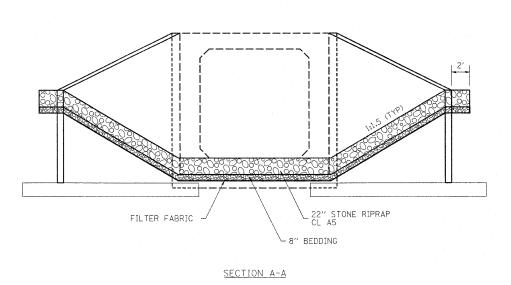
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			TYPICAL SECTIONS		F.A.P.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\PWIDOT\STEFFENMK\dms52291\D	74213-sht-typ.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		THE TOAL OLD HOND		823	218-1	Edwards	24 5
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRAC	
	PLOT DATE = 3/19/2009	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

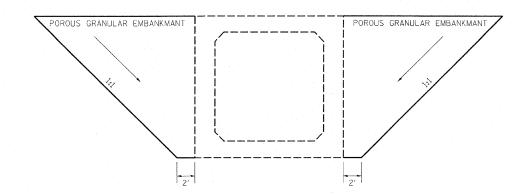






NORTH END SHOWN



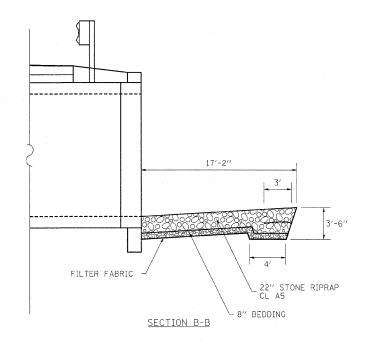


LIMITS OF POROUS GRANULAR EMBANKMENT

THE LIMITS SHALL BE AS SHOWN ABOVE OR AS DIRECTED BY THE ENGINEER.

THE GRANULAR MATERIAL SHALL BE COMPACTED ACCORDING TO ARTICLE 206.06, OR AS DIRECTED BY THE ENGINEER

THAT PORTION OF THE PGE OUTSIDE THE AGGREGATE SHOULDERS AND BEHIND THE END SECTION WINGWALLS SHALL BE COVERED WITH A MINIMUM OF 1 FOOT OF COHESIVE MATERIAL AS DIRECTED BY THE ENGINEER. COST INCLUDED WITH POROUS GRANULAR EMBANKMENT.



NOTES

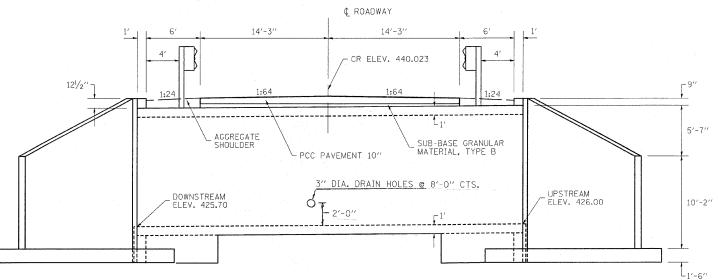
LAYOUT OF RIPRAP MAY BE VARIED TO SUIT GROUND CONDITIONS IN THE FIELD AS DIRECTED BY THE ENGINEER.

FILE NAME =	USER NAME = staffenmk	DESIGNED -	REVISED -			F.A.P. SECTION	COUNTY TOTAL SHEET	
o:\pw_work\pwidot\steffenmk\dms52291\D7	4213-sht-culv.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	RIPRAP DETAILS		823 21B-1	Edwards 24 8
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 74213
	PLOT DATE = 3/19/2009	REVISED -		SCALE: SHEET NO. OF SHEETS STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

BENCHMARK: ELEV. 440.39 CHISELED SQUARE ON NE WINGWALL OF EXISTING STRUCTURE, 21.5' RT STA 32+94

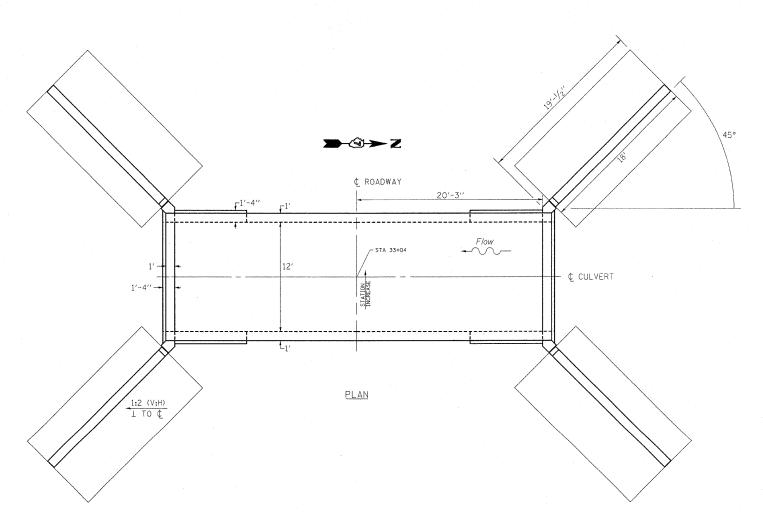
BENCHMARK: ELEV. 448.07 SPIKE NAIL IN POWER POLE, 40' RT STA 30+28

EXISTING STRUCTURE: S.N. 024-0007 WAS ORIGINALLY CONSTRUCTED IN 1921 UNDER SBI-5, SECTION 21-A AS A SINGLE SPAN SLAB SUPERSTRUCTURE ON CLOSED ABUTMENTS SUPPORTED BY SPREAD FOOTINGS. LENGTH OF THE EXISTING STRUCTURE IS 20'-O" AND THE WIDTH IS 44'-4" OUT TO OUT. THE EXISTING STRUCTURE IS NOT SKEWED AND IS TO BE COMPLETELY REMOVED AND REPLACED. THE ROAD WILL BE TEMPORARILY CLOSED DURING CONSTRUCTION.



END ELEVATION

DIMENSIONS AT RIGHT ANGLES TO & ROADWAY



NOTES

EXCAVATION BEHIND ABUTMENT WALLS SHALL BE PERFORMED TO BALANCE FRONT AND BACK SOIL PRESSURE BEFORE REMOVING THE SUPERSTRUCTURE.

BUILD TOPS OF HEADWALLS PARALLEL TO PROFILE GRADE.

ALL PORTIONS OF THE PRECAST BOX CULVERT IN CONTACT WITH THE CAST-IN-PLACE CONCRETE SHALL BE SANDBLASTED ACCORDING TO ART, 503,09(B).

CONCRETE AND REBAR QUANTITIES AND LENGTHS CALCULATED FOR THE CAST-IN-PLACE END SECTIONS WILL VARY BASED ON THE PRECAST BOX CULVERTS SUPPLIED.

END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR BOX CULVERT END SECTION, AS OUTLINED IN ART. 540.08, WHICH PRICE SHALL INCLUDE ALL CONCRETE, REBAR AND ALL OTHER ITEMS NECESSARY TO COMPLETE THE PROPOSED WORK, THE BOX CULVERT END SECTIONS SHALL BE BUILT IN THE FIELD AND A PRECAST OPTION IS NOT ALLOWED.

DRAIN HOLES SHALL BE PROVIDED IN ACCORDANCE WITH ART. 503.11.

THE JOINTS BETWEEN PRECAST BOX SECTIONS SHALL BE SEALED AND ALL VOIDS FILLED WITH A MASTIC JOINT SEALER. IN ADDITION, THE JOINTS SHALL BE EXTERNALLY SEALED ON ALL FOUR SIDES WITH A 13 INCH WIDE EXTERNAL SEALING BAND. THE SEAL SHALL BE CENTERED OVER THE JOINT, SECURED IN PLACE AND PROTECTED DURING THE BACKFILLING PROCESS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT.

VOIDS BETWEEN THE PRECAST CONCRETE BOX CULVERT AND THE CAST-IN-PLACE TOEWALL/CUTOFF WALL SHALL BE FILLED WITH NON-SHRINK GROUT.

DRAWINGS NOT TO SCALE.

ALL BARS SHALL CONFORM TO THE REQUIREMENTS OF ART. 1006.10 OF STANDARD SPECS.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THE PRECAST CONCRETE BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

ALL CONSTRUCTION JOINTS SHALL BE BONDED.

EXPANSION BOLTS SHALL BE $\frac{3}{4}$ " DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND 6" INTO CONCRETE COLLAR. THE COST OF THE BOLTS SHALL BE INCLUDED IN THE COST OF BOX CULVERT END SECTION.

ALL DIMENSIONS ARE IN FEET(') - INCHES(") UNLESS OTHERWISE NOTED.

* Name Plate will contract unit price "NAME PLATES".	be paid for at the per "EACH" for

STATION 33+04

BUILT 2 0 _ BY

STATE OF ILLINOIS

F.A.P. RTE. 823 SEC. 21B-1

LOADING HS 20-44

STR. NO. 024-2007

NAME PLATE

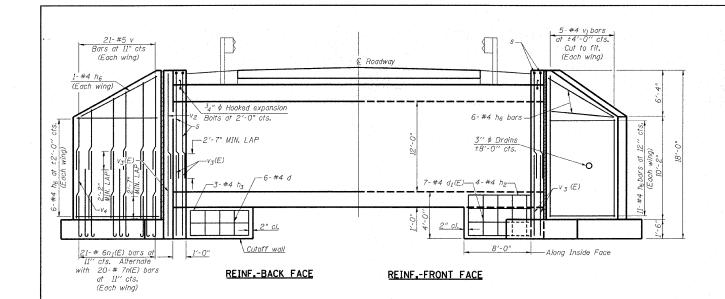
* See Highway Standard 515001-03 for

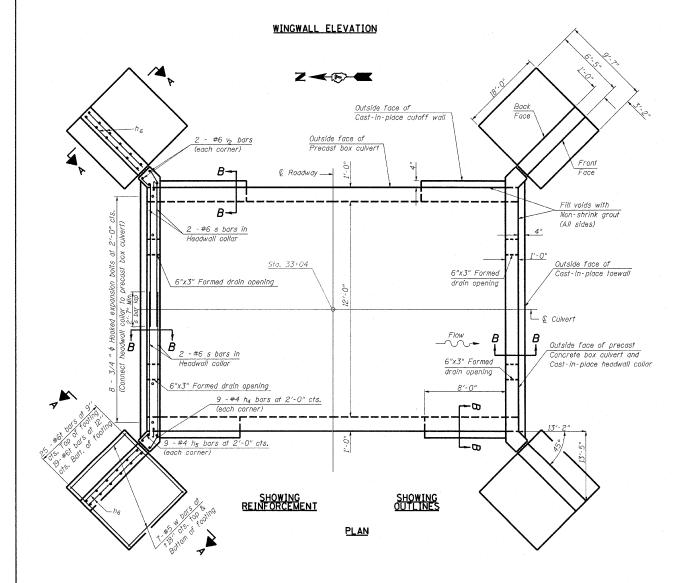
dimensions and placement.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

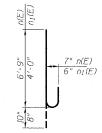
GENERAL PLAN AND ELEVATION 12'x12' PRECAST BOX CULVERT STATION 33+04 STRUCTURE NO.024-2007

SCALE: SHEET NO. OF SHEETS STA. TO STA.

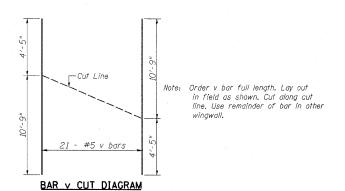








BARS n(E) and n₁(E)



DESIGN STRESSES

fy = 60,000 psi f'c = 3,500 psi

Max, Soil Pressure under footing = 3522 psf

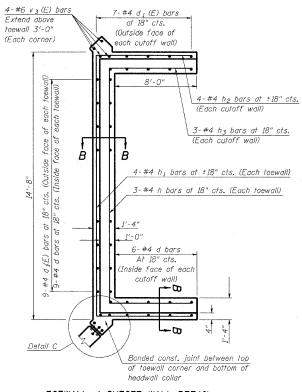
LOADING HS 20-44

BILL OF MATERIAL (ONE END SECTION)

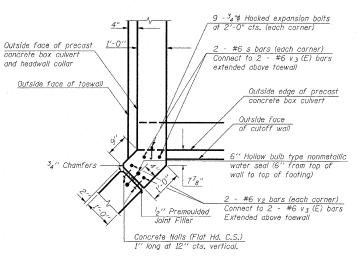
Bar	No.	Size	Length	Shape
d	21	#4		
d ₁ (E)	23	#4	2′-8" 3′-8"	
h	3	#4	13'-0"	
h_I	4	#4	14'-5"	
h2	8	#4	8'-10"	
hз	6	#4	8'-0"	
h4	18	#4	1'-2"	
h ₅	18	#4	9"	
h6	48	#4	17′-8"	
n(E)	40	#7	7'-7''	
$n_I(E)$	42	#6	4'-8"	
S	4	#6	21'-11"	
		1.7		
t	88	#6	9'-4"	
V	21	#5	15'-2"	
V _I	10	#4	16'-3"	
V2	4	#6	14'-8"	
v3(E)	8	#6	6'-10"	
V4	42	#5	7′-9"	
W	28	#5	17'-6"	
	eteBoxC		Cu. Yd.	42.3
	cement	Bars,	Pound	1053
Ероху				
	cement		Pound	3516
Expans	ion Bolf	- 3 ₄ " φ	Each	26

Pay Item	Unit	Qty.
Box Culvert End Sections	Each	2.0

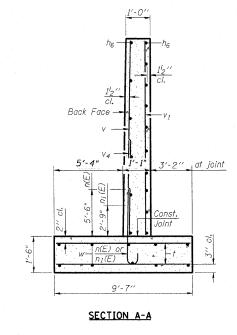
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -									SECTION	COUNTY TOTAL	L SHEET
o:\pw_work\pwidot\steffenmk\dms52291\D7	74213-sht-culv.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	CULVERT DETAILS			823	218-1	Edwards 24	10.			
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							74213			
	PLOT DATE = 3/19/2009	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	ID PROJECT	~~~~~~~~~

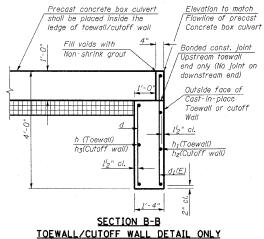


TOEWALL / CUTOFF WALL DETAIL
WITH CORNER DIMENSIONS



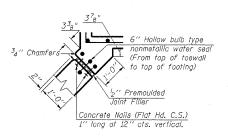
CAST-IN-PLACE CORNER DETAIL FOR HEADWALL COLLAR





(SIDE WALL OF PRECAST BOX CULVERT NOT SHOWN)

Porous Granular Material - CA 7 (6")
(Included in pay item for precast box culvert)



CORNER DETAIL C

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED ~						F.A.P.	SECTION	COUNTY	TOTAL SHEET		
c:\pw_work\pwidot\steffenmk\dms	s52291\D774213-sht-oulv.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	1	CULVERT DETAILS					823	218-1	Edwards	24 11
	PLOT SCALE = 50.00000 '/ IN. CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	T NO. 74213	
	PLOT DATE = 3/19/2009	PLOT DATE = 3/19/2009 DATE - REVISED -		SCALE:	SHEET NO.	. OF	SHEE	TS STA.	TO STA.		ILLINOIS FED. AID			



SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 9/11/07

ROUTE <u>FAP 823 (FR 03.340)</u> DESCRIPT	ION _		-	Wa	nboro Lake Overflow	LOGGED BY	E. Sandschafer			
SECTION 21B-1	LOCATIO	ON _	E 1/2, SI	EC. 3, TV	VP. 2 S, RNG. 10 E, 3 PM					
COUNTY Edwards DRILLING METHOD		HOD	· .	Hollow	stem auger & split spoon	HAMMER TYPE	Auto 140#			
STRUCT. NO. 024-0007 Station 33+04	D E P	L	U C S	M O I	Surface Water Elev Stream Bed Elev	Dry ft D E P	B U M L C O O S I			
BORING NO. 1 Station 32+72 Offset 6.00ft Rt	_ H	- I	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	Dry ft H	W S Qu T			
Ground Surface Elev. 440.05 4" asphalt on 7" concrete	ft (ft) (/6")	(tsf)	(%)	After 48 Hrs.	426.1 ft (ft)	(6") (tsf) (%			
pavement. Tan, CLAY w/brick fragments.	439.15						-			
	437.05	3	+4.5	11	Benchmark: BM 2 Chiseled Square on NE wingwall of existructure, 21.5' Rt Sta 32+94	sting				
Hard, damp, gray, CLAY LOAM TILL.	435.55	6	PP		440.39' elevation. Provided by Program Development.					
Stiff, damp, dark brown, SILTY LOAM.	400.00	-5 4	1.2	23			5			
	433.05	4	PP							
Stiff, damp, brown marbled red, LOAM TILL.	200.00	3 2	1.8	21		<u> </u>				
	_	4	PP			<u>-</u>				
Very stiff, moist, brown to gray,	430.05	₋₁₀ 4 5	3.9	15			0			
SANDY CLAY SHALE.		20	S							
		16	4.4	8						
	. <u>-</u>	50/2"	S				_			
	·	32 50/3"		7		_ 	35			
		50/2"	1				_			
Extent of exploration.	422.35	50/5"		6	<u> </u>	· · · · · · · · ·				
LANCARO DE CASPACE MARCES.		50/1"				-				
		-20					40]			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date ____9/11/07___

ROUTE <u>FAP 823 (FR 03.340)</u>	DESCRIPTION _	Wanboro Lake Overflow			LOGGED BY	BY E. Sandschafe			
SECTION 21B-1	LOCATIO	ON	E 1/2, SI	EC. 3, TW	P. 2 S, RNG. 10 E, 3 PM				
COUNTY Edwards	DRILLING MET	METHOD Hollow stem auger & split spoon HAMMER					Aut	140#	
STRUCT. NO. 024-00 Station 33+0 BORING NO. 2 Station 33+3 Offset 7.00ft I	14 E P T H	L O W	U C S	M O I S T	Groundwater Elev.: First Encounter	Dry ft E 28.18 ft E P T T H H Dry ft	L O W	U C S Qu	M O I S T
Ground Surface Elev.	439.98 ft (ft	(6")	(tsf)	(%)		127.5 ft (ft	(6")	(tsf)	(%)
4.5" asphalt on 7" concrete pavement. Stiff, damp, red, SANDY CLAY.	439.08					-			
	- - 	2 8 16	1.2 B	10	Benchmark: BM 2 Chiseled Square on NE wingwall of existing structure, 21.5' Rt Sta 32+94 = 440.39' elevation. Provided by	-			
· .	435.48				Program Development.				
Medium, damp, red & gray, SANDY LOAM.		2 2 3	0.8 S	10			25	-	
	-	2				-			
	- -	5 5	0.9 S	16		· · · · · · · · · · · · · · · · · · ·			
Stiff, damp, red marbled gray, SANDY CLAY.	430.48	2	1.2	20			30		
DANDI OLAI.		5	B	20		· · · · · · · · · · · · · · · · · · ·			
		3 4	0.7	23					
	-	5	В			-			
Hard, moist, gray & brown,	424.98	11 22	5.3	11		·	-35		
SANDY CLAY SHALE.	-	38	BS						
Extent of exploration.	422.38	50/5"		6		<u> </u>			
	- 	501"				-			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -				BO	ORING I	OGS		F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\steffenmk\dms52291\l	774213-sht-borelog.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS							823	218-1	Edwards	24 /2
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	T NO. 74213
	PLOT DATE = 3/19/2009	2009 DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS ST				S STA.	TO STA.		ILLINOIS FED. A	AID PROJECT	

