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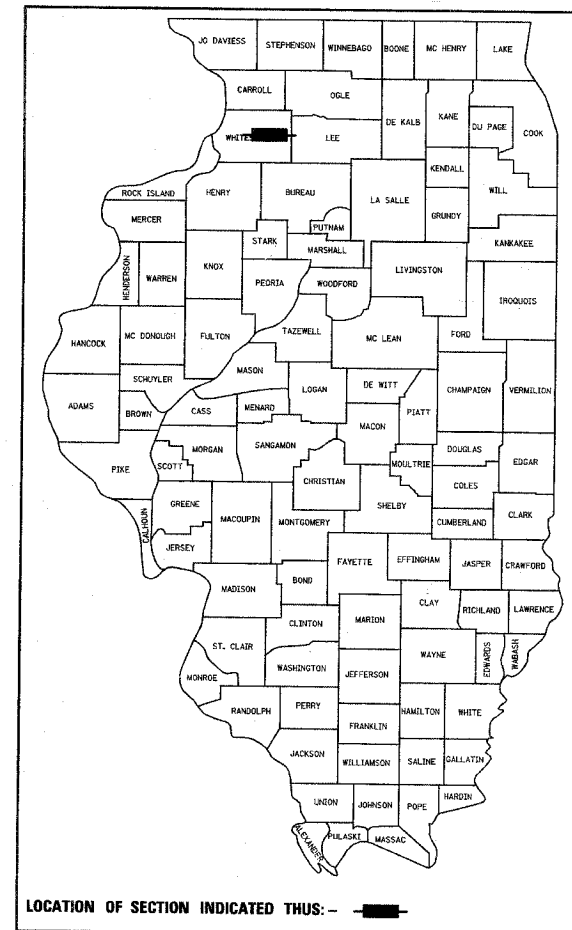
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

STRUCTURE NUMBER 098-0080

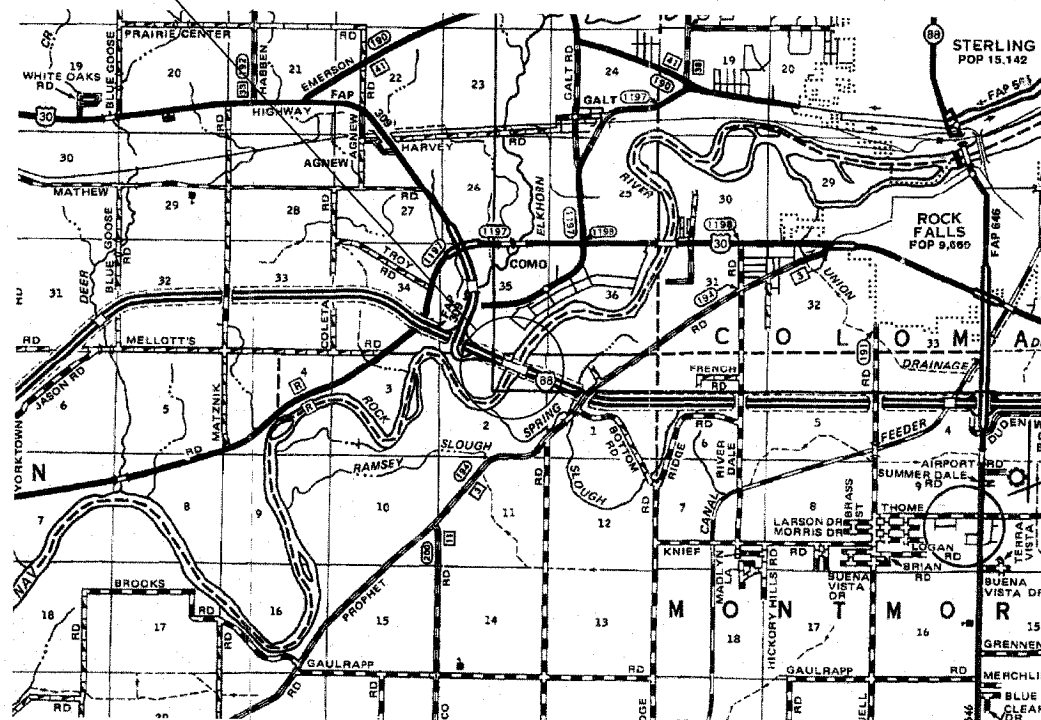
F.A.I. ROUTE 88 (I-88)
SECTION (195-3B-3)M-1
WHITESIDE COUNTY
C-92-072-08

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-3)M-1	Whiteside	8	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64D97		

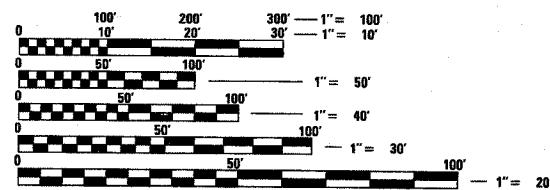
D-92-033-08



Structure Number 098-0080



LOCATION MAP



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 : MAHMOUD ETEMADI 815/284-5393

CONTRACT NO. 64D97

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED March 19, 2008
George F. Ryan
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9, 2008
Eric E. Harman
 ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2008
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

SUMMARY OF QUANTITIES

PAY CODE	ITEM	UNIT	100% STATE SFTY-2A QUANTITY
51201005	FURNISHING METAL SHELL PILES 12"	FOOT	110
51202305	DRIVING PILES	FOOT	110
67100100	MOBILIZATION	L SUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
X0324059	DEBRIS DEFLECTION SYSTEM, COMPLETE	L SUM	1
Z001 5500	DEBRIS REMOVAL	L SUM	1

FILE NAME = D:\BR\Bridg Shrike\Contract #64097\CONTRACT 64097.dgn	USER NAME = lrkdj	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE. 88	SECTION (195-3B-3M-1)	COUNTY WHITESIDE	TOTAL SHEETS 8	SHEET NO. 2	
PLOT SCALE = 50.0000' / IN.	CHECKED - ___	REVISED - ___	SCALE: _____			SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/18/2008	DATE - _____	REVISED - ___	CONTRACT NO. 64097								

GENERAL NOTES

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Dave Lippert, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

- District 2 District Engineer (1)
- Fabricator (1)
- Contractor (2)
- Resident Engineer (2)
- District 2 Bureau of Materials (2)

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123.

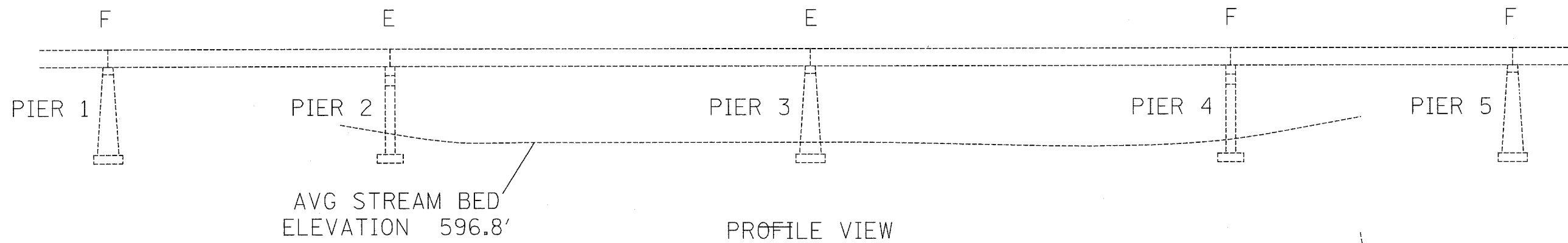
Following are the known utilities located within the project limits or immediately adjacent to the project construction limits which are not members of JULIE and should be notified individually by the contractor:

IDOT
Mr. Kyle Lorenz 815 / 284 - 5449

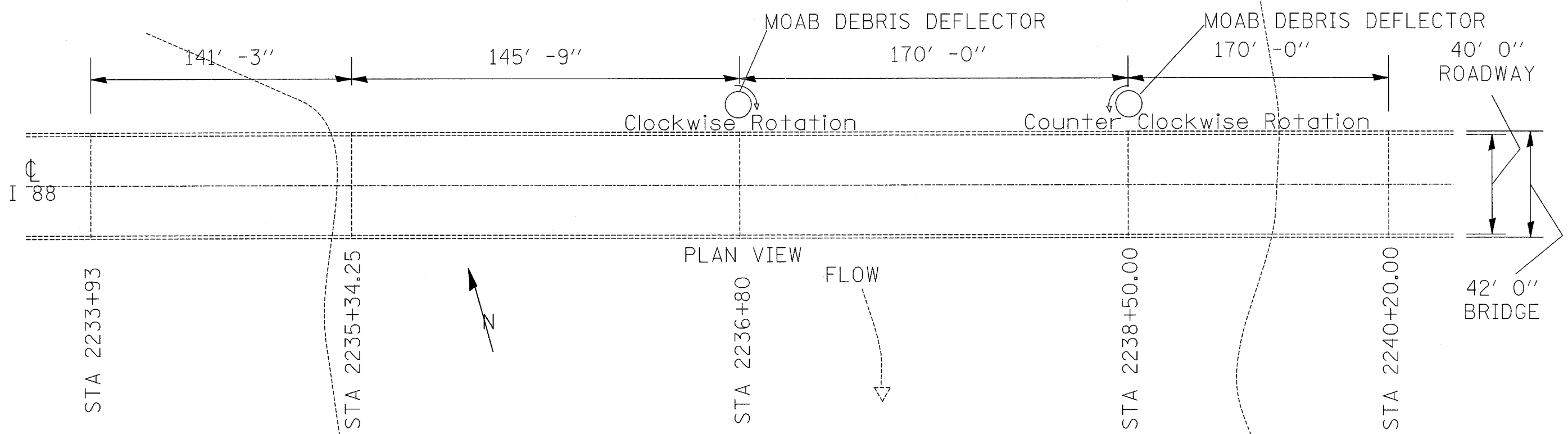
STANDARDS

- 701101-01 Off-Road Operations, Multilane, 4.5 m (15') to 600 mm (24⁹/₃₂) From Pavement Edge
- 701106-01 Off-Road Operations, Multilane, More Than 4.5 m (15') Away
- 701400-02 Approach to Lane Closure, Freeway/Expressway
- 701406-04 Lane Closure, Freeway/Expressway, Day Operations Only
- 701411-04 Lane Closure, Multilane, at Entrance or Exit Ramp, for Speeds > 45 MPH
- 701901 Traffic Control Devices
- 720011 Metal Posts for Signs, Markers and Delineators
- 728001 Telescoping Steel Sign Support
- 729001 Applications of Types A and B Metal Posts (For Signs & Markers)

FILE NAME =	USER NAME = lmkdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, STANDARDS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BR\Bridg\Sharks\Contract #64D97\CONTRACT 64D97.dgn	PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -			88	(195-3B-3)M-1	WHITESIDE	8	3	
	PLOT DATE = 3/18/2008	CHECKED -	REVISED -			SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____					
		DATE -	REVISED -			ILLINOIS CONTRACT NO. 64D97					



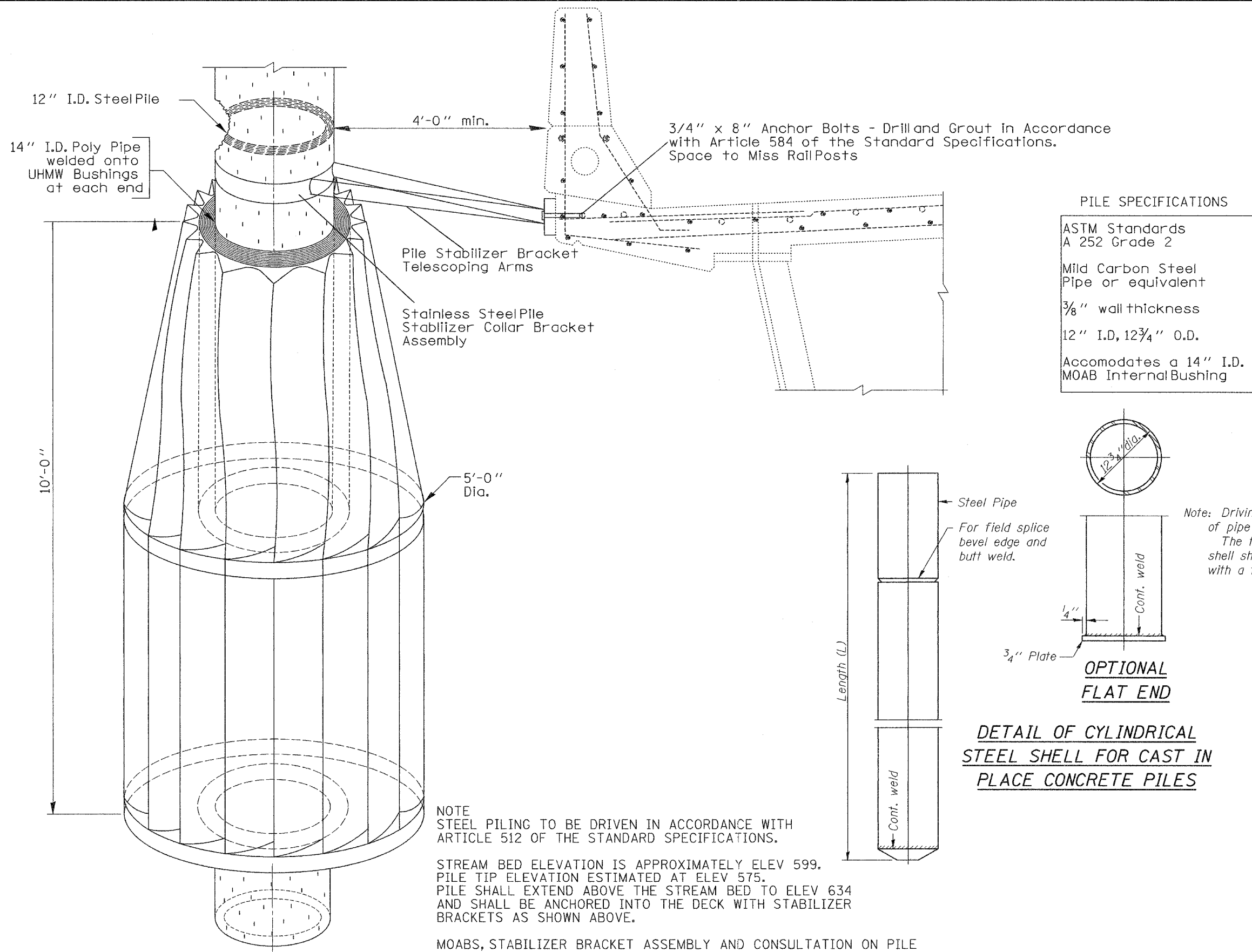
PROFILE VIEW



PLAN VIEW

NOTE: MOAB TO BE LOCATED UP STREAM OF PIER, ALIGNED WITH THE CHANNEL AND OUT FROM THE BRIDGE FAR ENOUGH SO THERE IS ADEQUATE CLEARANCE FOR MOAB TO CLEAR PIER AND BRIDGE DECK AT HIGH WATER. EXACT PLACEMENT TO BE DETERMINED BY ENGINEER

FILE NAME = G:\BR\Bridges\Sharks\Contract #64D97\CONTRACT 64D97.dgn	USER NAME = linkdj	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW & ELEVATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED - ---	REVISED - ---		88	(195-3B-3M-1)	WHITESIDE	8	4			
	PLOT DATE = 3/18/2008	DATE - ---	REVISED - ---		NOT TO SCALE	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
								CONTRACT NO. 64D97				



PILE SPECIFICATIONS

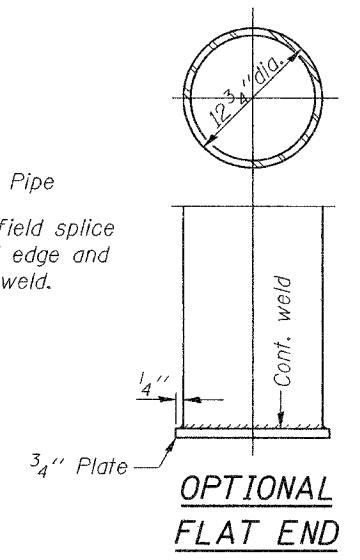
ASTM Standards
A 252 Grade 2

Mild Carbon Steel
Pipe or equivalent

3/8" wall thickness

12" I.D., 12 3/4" O.D.

Accommodates a 14" I.D.
MOAB Internal Bushing



Note: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.375 inches with a tolerance of 5%.

DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES

NOTE
STEEL PILING TO BE DRIVEN IN ACCORDANCE WITH ARTICLE 512 OF THE STANDARD SPECIFICATIONS.

STREAM BED ELEVATION IS APPROXIMATELY ELEV 599.
PILE TIP ELEVATION ESTIMATED AT ELEV 575.
PILE SHALL EXTEND ABOVE THE STREAM BED TO ELEV 634 AND SHALL BE ANCHORED INTO THE DECK WITH STABILIZER BRACKETS AS SHOWN ABOVE.

MOABS, STABILIZER BRACKET ASSEMBLY AND CONSULTATION ON PILE INSTALLATION PROVIDED BY DEBRIS FREE, INC. OJAI, CA.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MOAB	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = #DATE#	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: _____ SHEET NO. _ OF _ SHEETS STA. _____ TO STA. _____										

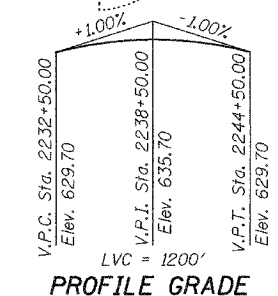
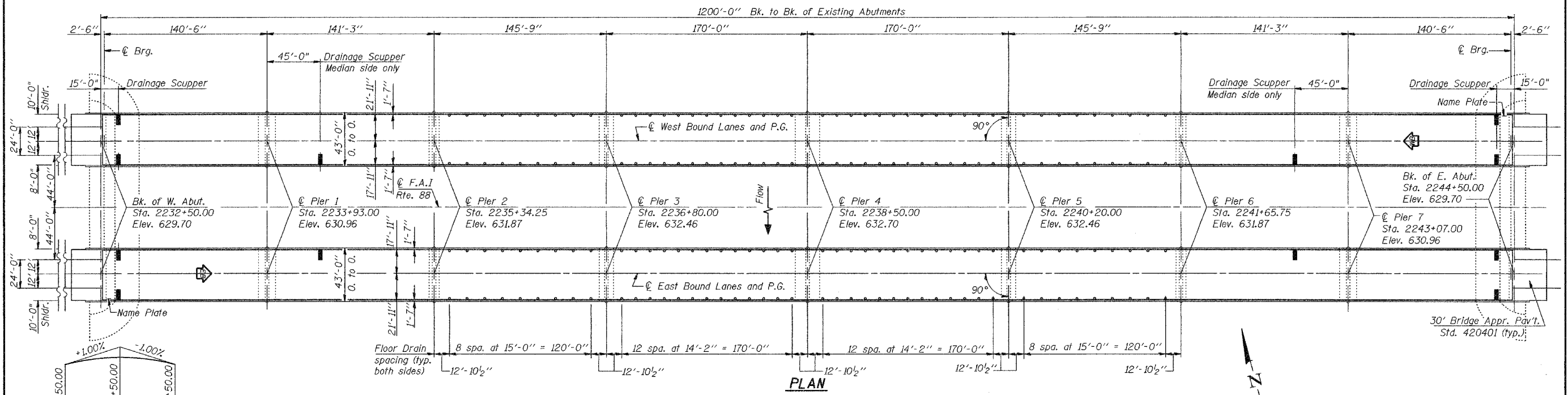
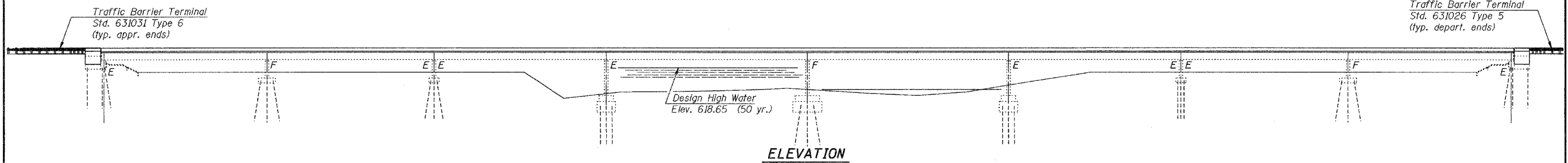
Bench Mark: Chiseled "X" N.W. Wingwall S.N. 098-0080, Elev. 631.397.

Existing Structure: S.N. 098-0079 & 098-0080 built in 1972 as F.A. Route 403, Sec. 195-3B-3 at Sta. 2238+50.00.
 Each dual structure consists of an (8)-span, 3-unit (2-span, 4-span, 2-span), reinforced concrete deck on 3 steel box girders, with pile bent spill thru abutments and pile supported solid wall piers.
 Length is 1200' bk. to bk. of abutments, and the width is 42'-0" out to out of deck. Concrete deck to be removed and replaced.
 The contractor shall temporarily brace the box girders during removal and reconstruction. Traffic shall be maintained by crossovers.

No salvage

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 88	195-3B-D	WHITESIDE		3/SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

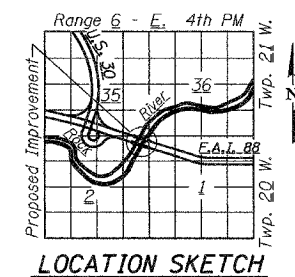


LOADING HS20-44 & ALT.
 Allow 50#/sq. ft. for future wearing surface.
DESIGN SPECIFICATIONS
 1996 AASHTO with 1997, 1998, 1999 & 2000 Interims

DESIGN STRESSES

FIELD UNITS	Existing Structure	FIELD UNITS	New Construction
f_c	1,200 psi (Slab)	f_c	3,500 psi
f_c	1,400 psi (Substructure)	f_y	60,000 psi (Reinforcement)
f_s	20,000 psi (Reinforcement)	f_y	36,000 psi (M 270 Grade 36)
f_y	36,000 psi (Structural Steel)	f_y	50,000 psi (M 270 Grade 50)
v	75 psi (Footings)		

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.034g
 Site Coefficient (S) = 1.2



GENERAL PLAN
 F.A.I. ROUTE 88 OVER
 ROCK RIVER
 PUBLIC WATER
 F.A.I. ROUTE 88 - SECTION 195-3B-D
 WHITESIDE COUNTY
 STATION 2238+50.00
 STRUCTURE NO. 098-0079 (E.B.)
 STRUCTURE NO. 098-0080 (W.B.)

FOR INFORMATION ONLY

DESIGNED	December 13 2001
CHECKED	EXAMINED
DRAWN R. Sommer	ENGINEER OF BRIDGE DESIGN
CHECKED	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

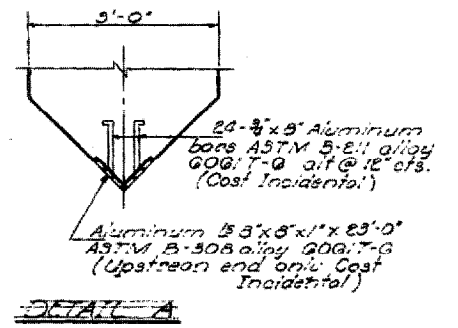
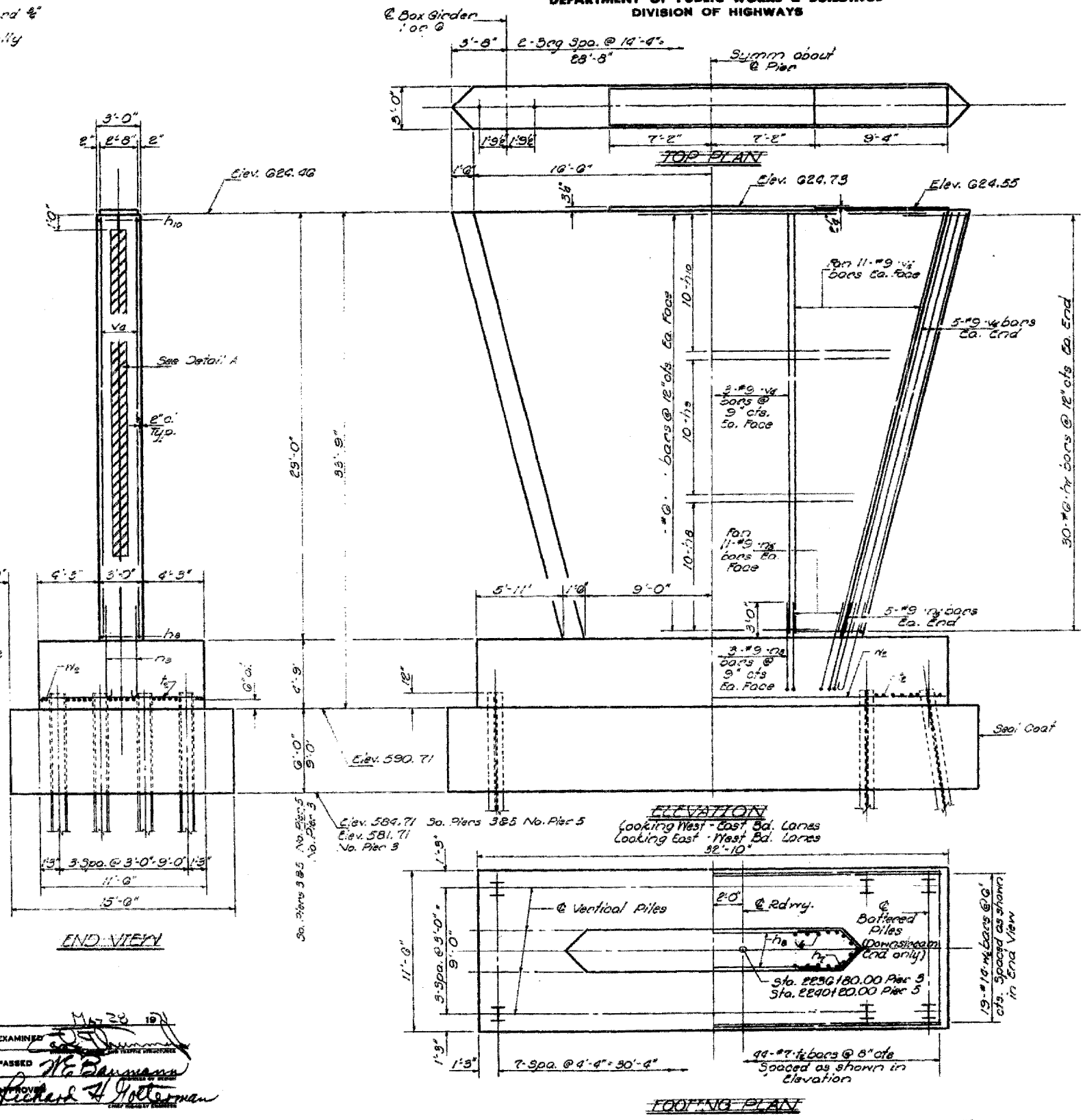
EXPIRES 11-30-2002

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN VIEW AND ELEVATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			88	(195-3B-3M-1)	Whiteside	8	6	
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -			CONTRACT NO. 64D97					
	PLOT DATE = #DATE#	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

Notes
 Min. bar dia = 2d dia. unless
 otherwise noted.
 All edges shall have standard 45°
 chamfer except as noted.
 Four steps monolithically
 with cap.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
403-195-3B-3	WHITESIDE	32	24	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	SHEETS	



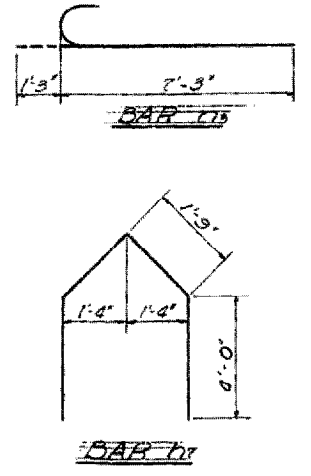
Notes:
 Drill holes for anchor bolts before
 the structural steel is erected.
 The cofferdam shall be flooded
 when the water level is above
 elevation 622.5.
 Seal Coat design based on pile lengths
 shown.

FOR INFORMATION ONLY

PILE DATA
 2.06 Steel 42" x 42"
 Capacity Drive to refusal.
 No. Req'd. 314 Test Pile No. 2943
 314 Test Pile No. 2945
 314 Test Pile No. 2946
 314 Test Pile No. 2947
 314 Test Pile No. 2948
 314 Test Pile No. 2949
 314 Test Pile No. 2950
 314 Test Pile No. 2951
 314 Test Pile No. 2952
 314 Test Pile No. 2953
 314 Test Pile No. 2954
 314 Test Pile No. 2955
 314 Test Pile No. 2956
 314 Test Pile No. 2957
 314 Test Pile No. 2958
 314 Test Pile No. 2959
 314 Test Pile No. 2960
 314 Test Pile No. 2961
 314 Test Pile No. 2962
 314 Test Pile No. 2963
 314 Test Pile No. 2964
 314 Test Pile No. 2965
 314 Test Pile No. 2966
 314 Test Pile No. 2967
 314 Test Pile No. 2968
 314 Test Pile No. 2969
 314 Test Pile No. 2970
 314 Test Pile No. 2971
 314 Test Pile No. 2972
 314 Test Pile No. 2973
 314 Test Pile No. 2974
 314 Test Pile No. 2975
 314 Test Pile No. 2976
 314 Test Pile No. 2977
 314 Test Pile No. 2978
 314 Test Pile No. 2979
 314 Test Pile No. 2980
 314 Test Pile No. 2981
 314 Test Pile No. 2982
 314 Test Pile No. 2983
 314 Test Pile No. 2984
 314 Test Pile No. 2985
 314 Test Pile No. 2986
 314 Test Pile No. 2987
 314 Test Pile No. 2988
 314 Test Pile No. 2989
 314 Test Pile No. 2990
 314 Test Pile No. 2991
 314 Test Pile No. 2992
 314 Test Pile No. 2993
 314 Test Pile No. 2994
 314 Test Pile No. 2995
 314 Test Pile No. 2996
 314 Test Pile No. 2997
 314 Test Pile No. 2998
 314 Test Pile No. 2999
 314 Test Pile No. 3000

FOUR PILES
 SIZE OF MATERIAL

Bar No	Size	Length	Shape
h1	240 #6	11'-0"	□
h2	80 #6	17'-9"	□
h3	80 #6	23'-3"	□
h4	80 #6	23'-3"	□
h5	240 #9	6'-6"	□
h6	176 #7	11'-3"	□
h7	80 #9	28'-9"	□
h8	76 #14	32'-6"	□
Class X Concrete Cu. Yds 63.5			
Reinforcement Bars Lbs 65,810			
Steel Piles (HP10x42) Lin. Ft. 3720			
Test Piles (HP10x42) Each 4			
Seal Coat Concrete Cu. Yds 570.9			
Cofferdams Each 4			



PIER 3 E.S.
 F.A. RT 403 SEC 195-3B-3
 WHITESIDE COUNTY
 STA. 22387+50.00

DESIGNED: J. W. Boyle
 CHECKED: James Pence
 DRAWN: J. SCHNELLER
 CHECKED: JP
 EXAMINED: [Signature]
 PASSED: [Signature]
 DATE: May 28 1971

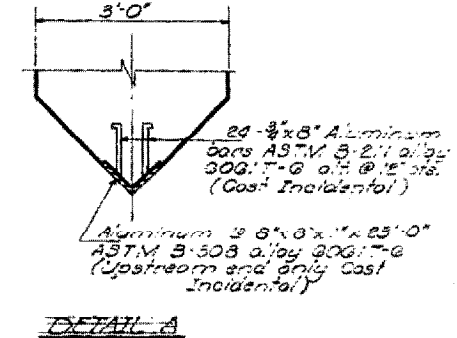
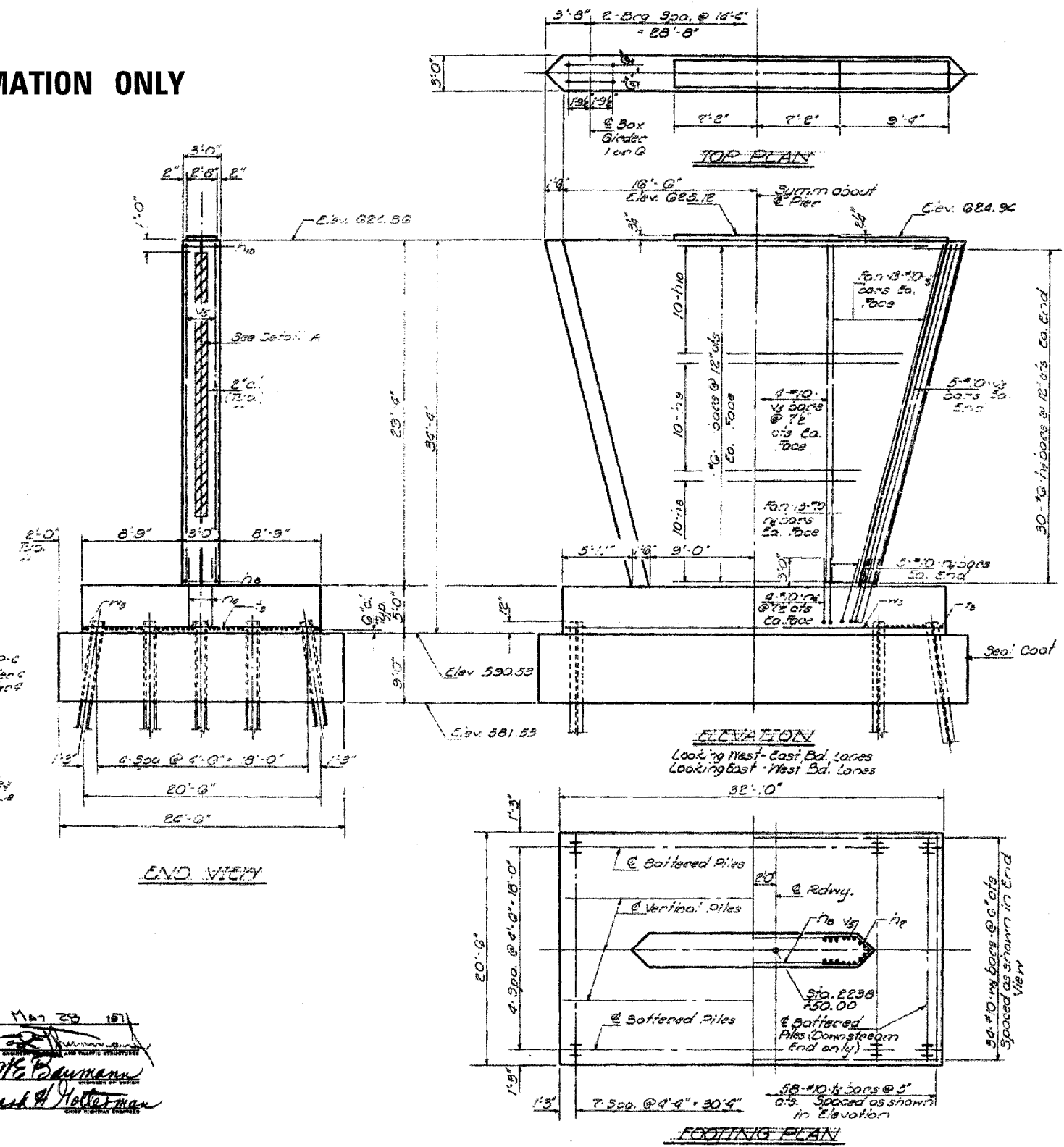
NOTES:
 Min. cover shall be as noted
 unless otherwise noted.
 All slopes shall have standard 3:1
 unless otherwise noted.
 Four steps monolithically with
 cap.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
403	3B	WHITESIDE	32	25

SHEET NO. 25
 OF 32 SHEETS

FOR INFORMATION ONLY



NOTES:
 Drill holes for anchor bolts before
 the structural steel is erected.
 The cofferdam shall be flooded
 when the water level is above
 Elevation 622.5.
 Seal Coat design based on pile
 lengths shown.

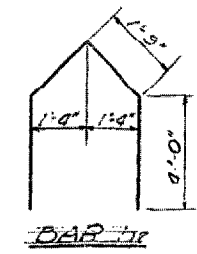
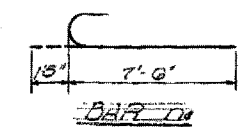
PILE DATA

Type	Steel HP 10x48
Capacity	Drills to refusal
Est. Depth	26' to 30' 3" to 2'-0"
No. Piles	39H 3" x 3" x 12' piles
	39H 3" x 3" x 12' piles

Notes:
 Section on pier
 indicated shall be
 2'-11"

PIER 4
 BILL OF MATERIAL

Bar No	Size	Length	Shape
H7	#6	11'-0"	U
H8	#6	17'-9"	—
H9	#6	23'-9"	—
H10	#6	28'-3"	—
H4	#10	8'-11"	U
H5	#10	20'-3"	—
V5	#10	29'-0"	—
H3	#10	32'-0"	—
Class X Concrete Cu.Yds 429.2			
Reinforcement Bars Lbs 48,090			
Steel Piles (4x10x12) Lin. Ft. 2,223			
Seal Coats (4x10x12) Each 2			
Seal Coat Concrete Cu.Yds 601.6			
Cofferdams Each 2			



DESIGNED	John W. Blythe	EXAMINED	May 23 1971
CHECKED	James J. Conner	PASSED	W. E. Bauman
DRAWN	J. SCHNEIDER	CHECKED	Richard A. Holtzman
CHECKED	JF		

PIER 4
 F.A. RT. 403 SEC. 3B-3
 WHITESIDE COUNTY
 STA. 22581+50.00