

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

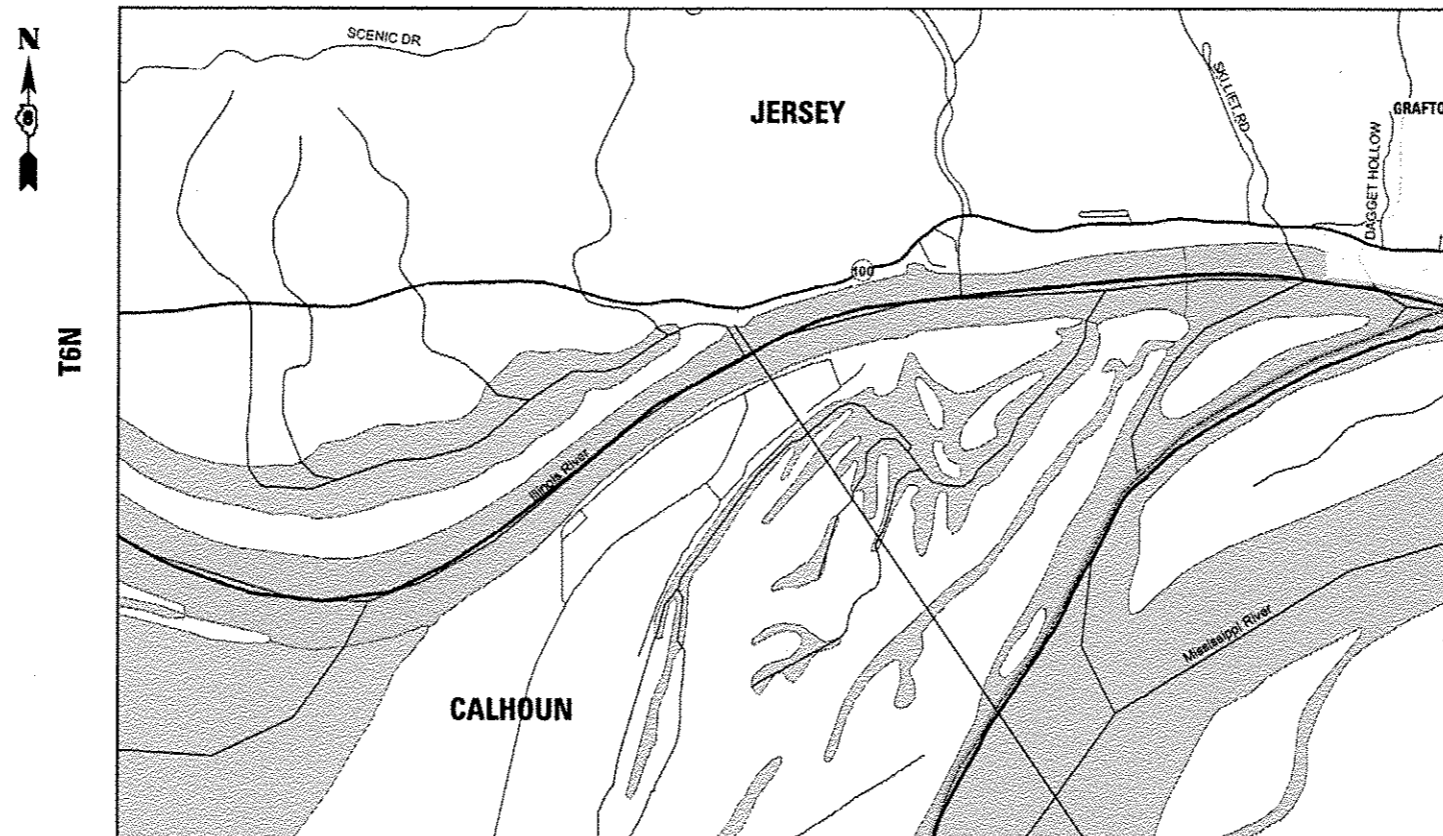
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FAP ROUTE 304 (IL 100)  
SECTION 21-5  
PROJECT: F-ACF-0304(046)  
**RETAINING WALL, DREDGING, MOORINGS AND STAIRS  
JERSEY COUNTY**

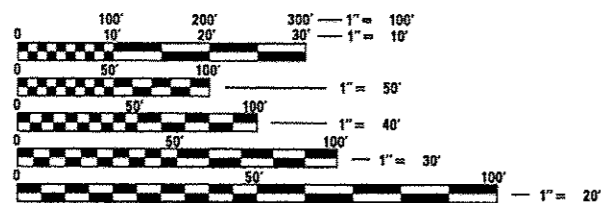
C-98-020-14

R13W

R12W



MAP NOT TO SCALE



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 PATTI LeBEAU (618) 346-3179  
PROJECT MANAGER: BILLIE OWEN (618) 346-3209

CONTRACT NO. 76G94

2014 ADT = 1000 (ACTUAL)  
2015 ADT = 1000 (ESTIMATED)  
2035 ADT = 1200 (ESTIMATED)  
HC = 27.5%

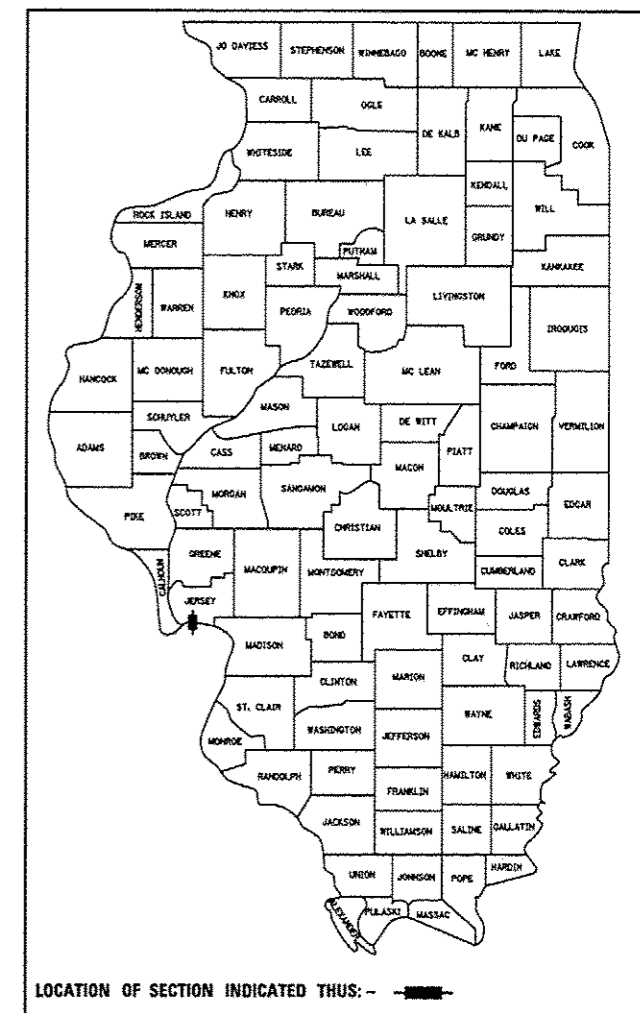
GROSS LENGTH = 310 FT. = 0.06 MILE  
NET LENGTH = 310 FT. = 0.06 MILE

PROJECT LOCATION  
BRUSSELS FERRY  
LAT: 38.96790  
LONG: -90.49524

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	21-5	JERSEY	20	1
		ILLINOIS	CONTRACT NO. 76G94	

#20-1=19

D-98-020-14



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED June 26 20 14  
Jeffrey Z. Kan as  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

Aug 15 20 14  
John D. Baranzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Aug 15 20 14  
Omer Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY.
2. UTILITY INTERFERENCES ARE NOT ANTICIPATED ON THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS. NO ADDITIONAL COST SHALL BE ADDED TO THE CONTRACT RESULTING FROM UTILITY CONFLICTS.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
4. THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
5. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
6. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.
7. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
8. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	BINDER/BSE CSE
AC/PG	SBS PG 76-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.
DESIGN AIR VOIDS	4.0 % @ Ndes=70	4.0 % @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0 FG
FRICTION AGG	MIXTURE "D"	MIXTURE "B"

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25mm THICKNESS).

COMMITMENTS  
NONE

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, STANDARDS AND COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5 OMITTED
- 6 TRAFFIC CONTROL PLAN
- 7 PLAN SHEET
- 8 AERIAL - BRUSSELS FERRY SEAWALL
- 9-12 STRUCTURE SHEETS
- 13-14 SOIL BORING LOGS
- 15-20 CROSS SECTIONS

STANDARDS

- 000001-06
- 001001-02
- 001006
- 630001-10
- 630301-06
- 631011-09
- 635006-03
- 635011-02
- 701311-03
- 701901-03
- 704001-07
- 780001-04

FILE NAME =	USER NAME = ohallandeska	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, INDEX OF SHEETS STANDARDS AND COMMITMENTS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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#MODELNAME#	PLOT DATE = 6/27/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

80/20 FEED/ST  
CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RETAINING WALL
				0040 S. N. 042-W001
20300100	CHANNEL EXCAVATION	CU YD	3927	3927
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	589	589
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	1223	1223
40603087	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N70	TON	274	274
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	103	103
44000100	PAVEMENT REMOVAL	SQ YD	518	518
50300225	CONCRETE STRUCTURES	CU YD	8.5	8.5
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	97070	97070
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	770	770
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1020	1020
51500100	NAME PLATES	EACH	1	1
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	687.5	687.5
63200310	GUARDRAIL REMOVAL	FOOT	700	700
* 63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	1	1
	* SPECIALTY ITEMS			

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	21-5	JERSEY	20	3
SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 76G94	
ILLINOIS FED. AID PROJECT				

80/20 FED/ST

CONSTR. CODE

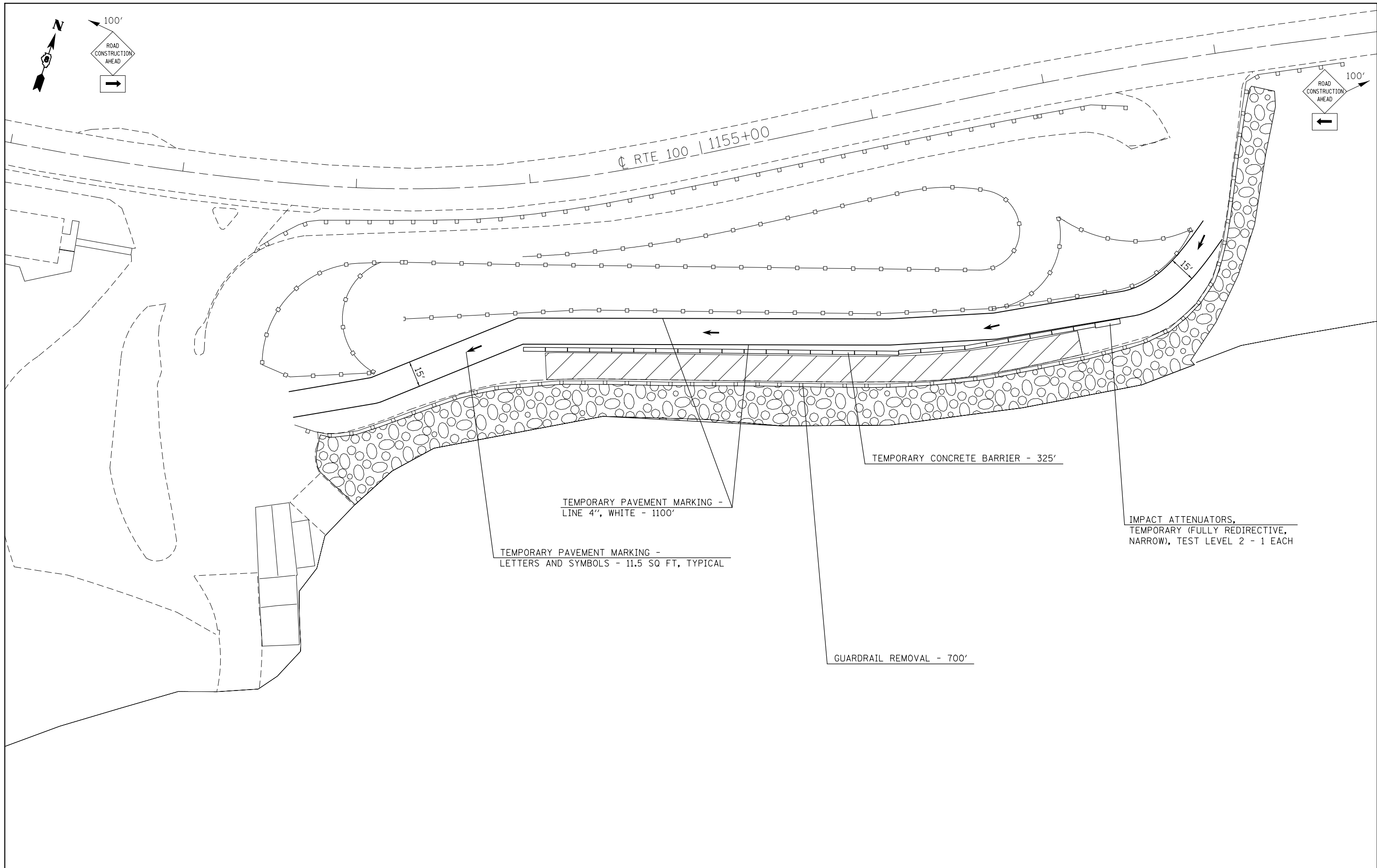
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67100100	MOBILIZATION	L SUM	1	1
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	580	580
70400100	TEMPORARY CONCRETE BARRIER	FOOT	325	325
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	69	69
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1600	1600
78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12
78300100	PAVEMENT MARKING REMOVAL	SQ FT	494	494
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	2550	2550
X5121800	PERMANENT STEEL SHEET PILING	SO FT	14609	14609
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
Z0065000	SETTING PILES IN ROCK	EACH	17	17
X0327780	FIBERGLASS REINFORCED POLYESTER RAILING	FOOT	313	313
X0327782	FIBERGLASS REINFORCED POLYESTER STAIR AND GRATING SYSTEM	SQ FT	351	351
	*SPECIALTY ITEMS			

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	2I-5	JERSEY	20	4
SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 76694	
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL PLAN</b>			
SCALE: 1"=25'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	2I-5	JERSEY	20	6
CONTRACT NO. 76094				
ILLINOIS FED. AID PROJECT				

REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1



THERMOPLASTIC PAVEMENT MARKING -  
LETTERS AND SYMBOLS - 11.5 SQ FT, TYPICAL

THERMOPLASTIC PAVEMENT MARKING -  
LINE 4" WHITE - 1600'

Ø RTE 100 | 1155+00

PROPOSED SPBGR 31.25'  
24' RADIUS

PROPOSED SPBGR 75'

PROPOSED SPBGR 75'  
65' RADIUS

PROPOSED SPBGR 25'

PROPOSED SPBGR 25'  
45' RADIUS

PROPOSED SPBGR 31.25'

PROPOSED SPBGR - 25'  
25' RADIUS

PROPOSED SPBGR - 12.5'

PROPOSED SPBGR - 87.5'  
300' RADIUS

PROPOSED SPBGR - 162.5'

PROPOSED SPBGR - 162.5'

NOTE: EACH RUN OF GUARDRAIL IS TO HAVE  
4 - GUARDRAIL MARKERS, TYPE A  
INSTALLED AS PER STANDARD 635006-03.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**

SCALE: 1"=25' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	2I-5	JERSEY	20	7
CONTRACT NO. 76C94				
ILLINOIS FED. AID PROJECT				



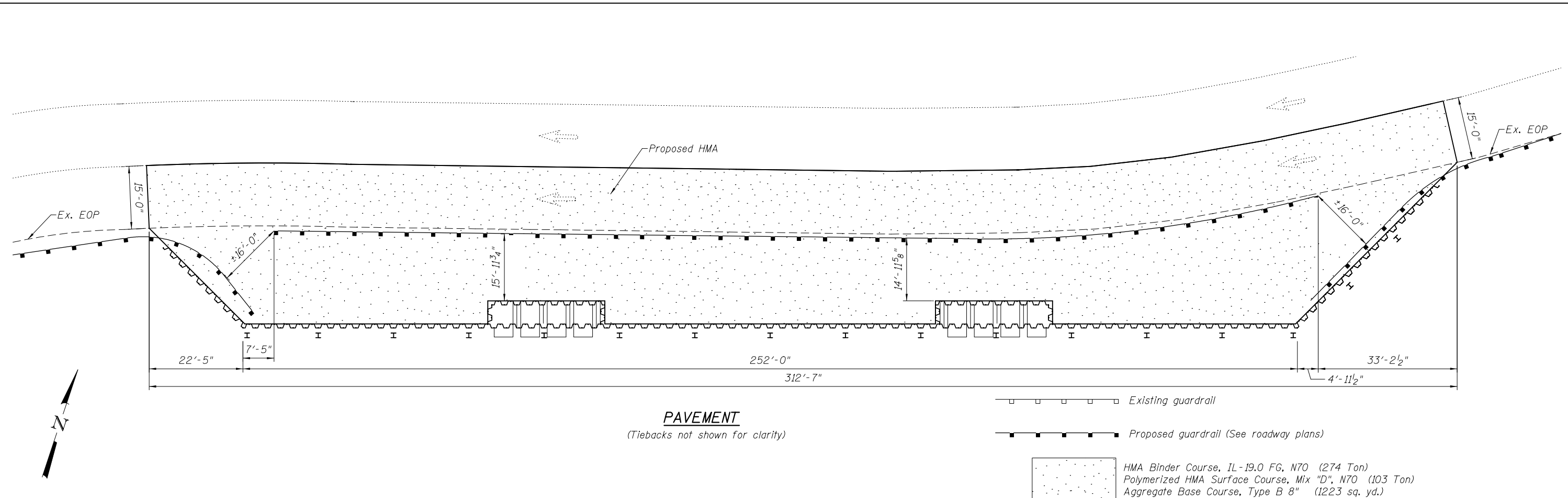
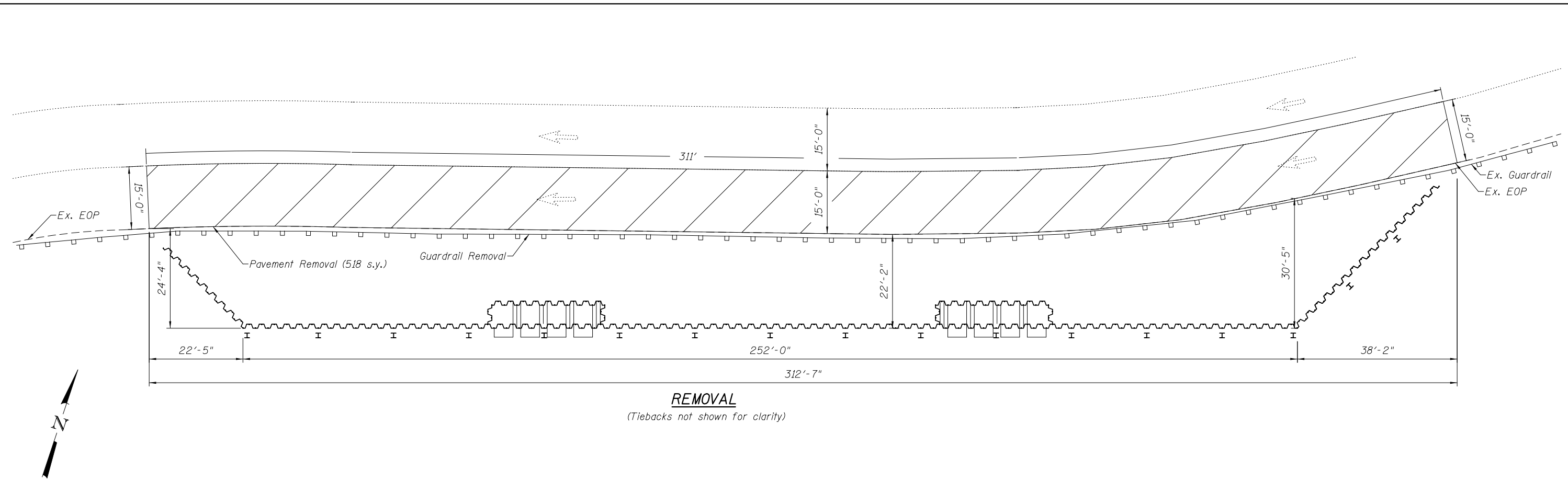
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\$MODELNAME\$	PLOT DATE = 6/27/2014	DATE - 9-18-14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AERIAL  
BRUSSELS FERRY SEAWALL**

SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	2I-5	JERSEY	20	8
CONTRACT NO. 76G94				
ILLINOIS FED. AID PROJECT				



Existing guardrail  
Proposed guardrail (See roadway plans)

HMA Binder Course, IL-19.0 FG, N70 (274 Ton)  
Polymerized HMA Surface Course, Mix "D", N70 (103 Ton)  
Aggregate Base Course, Type B 8" (1223 sq. yd.)

FILE NAME =	USER NAME = uehleja	DESIGNED - John Uehle	REVISED -
et:\pw\work\p\dot\uehleja\d0374514\BrusselsFerrySeawall.dgn		DRAWN - John Uehle	REVISED -
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#MODELNAME#	PLOT DATE = 6/27/2014	DATE - 9-18-14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

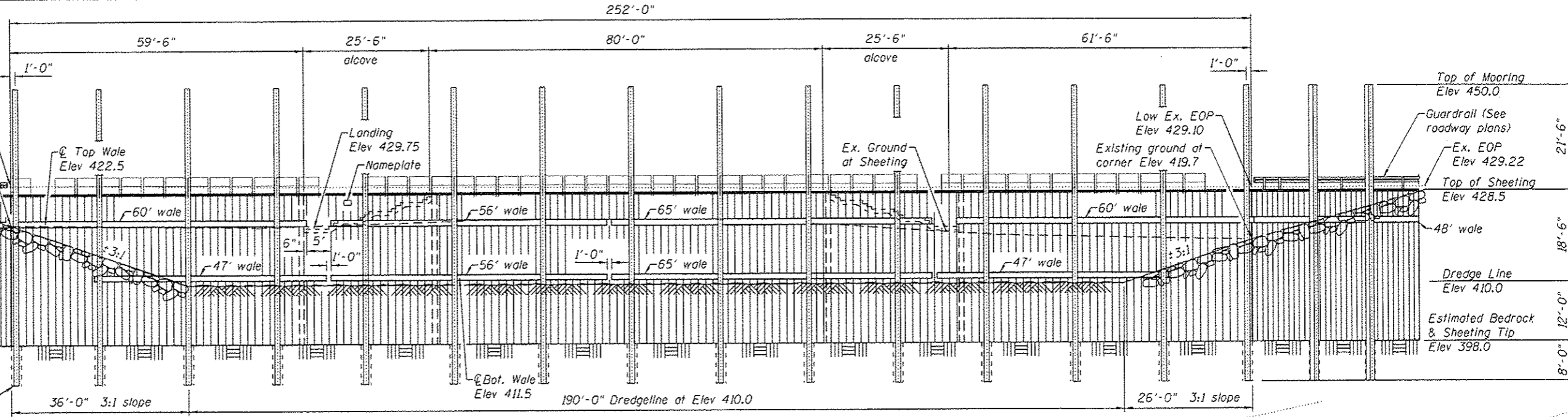
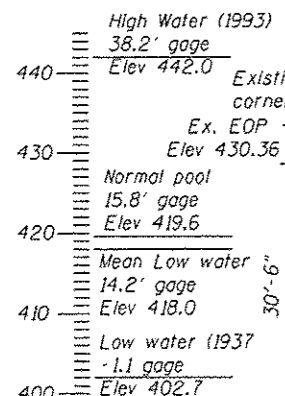
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<b>BRUSSELS FERRY SEAWALL</b>		304	2I-5	JERSEY	20	9
SCALE: 1"=25'	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

76C94

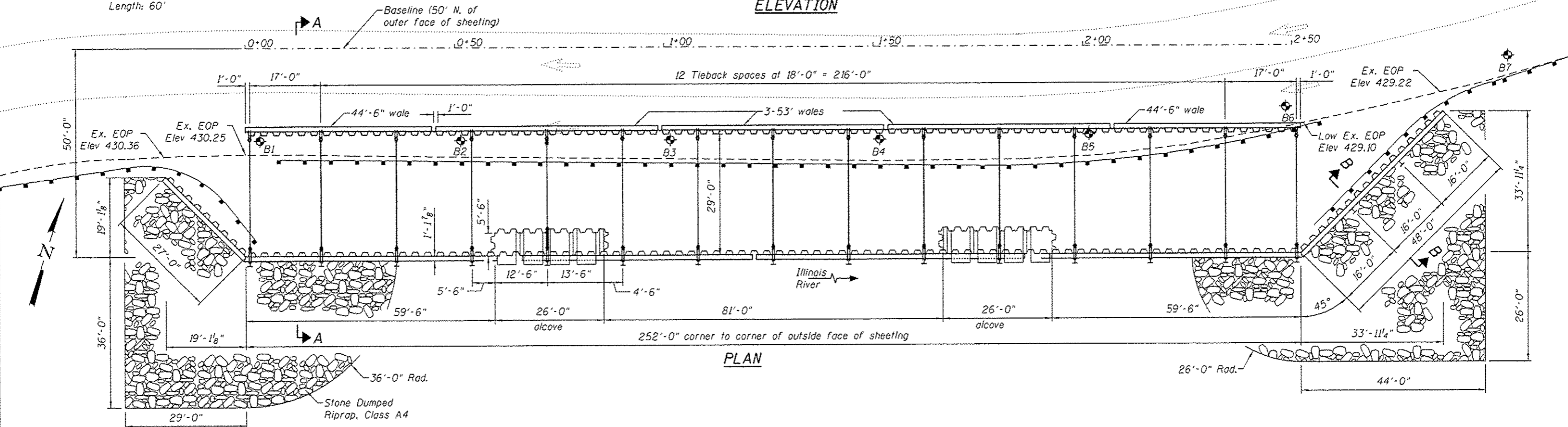


**BENCHMARK**

TBM RR spike driven in SE side of powerpole 1' above ground on north side of IL 100 across from ferry office Elev 432.660 (NGVD29)



**ELEVATION**



**PLAN**

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges

**DESIGN LOADING**

**SHEET PILING**  
32 pcf Equivalent Fluid Pressure

**STAIRWAY**  
Live Load = Greater of 100psf uniform load or a 300 lb. concentrated load. Maximum deflection = 1/4"

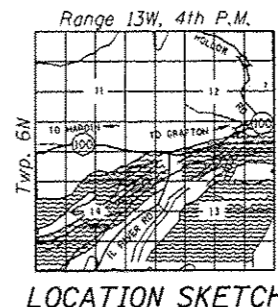
**DESIGN STRESSES**

**SHEET PILING & STRUCTURAL STEEL**  
fy = 50,000 psi AASHTO M270, Grade 50

**ANCHOR RODS**  
Fu = 150,000 psi ASTM A722

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Channel Excavation	Cu. Yd.	3,927
Stone Dumped Riprap, Class A4	Sq. Yd.	589
Furnishing & Erecting Structural Steel	Pound	97,070
Concrete Structures	Cu. Yd.	8.5
Reinforcement Bars, Epoxy Coated	Pound	770
Furnishing Steel Piles HP14x89	Foot	1,020
Name Plates	Each	1
Porous Granular Embankment, Special	Cu. Yd.	2,550
Permanent Steel Sheet Piling	Sq. Ft.	14,609
Setting Piles In Rock	Each	17
Fiberglass Reinforced Polyester Rolling	Foot	313
F.R.P. Stair and Grating System	Sq. Ft.	351



**GENERAL NOTES**

- All walers and mooring soldier piles are HP 14x89. Splices in mooring soldier piles will not be allowed. Field welded splices are allowed in the walers, as approved by the Engineer. Splices are required at both wingwall corners of the top wale.
- Sheeting horizontal dimensions, alcove dimensions, closure channel size, and tieback spacings are based on sheeting sections assumed to be 12" wide and 18" long. These may be adjusted based on the actual chosen sheeting section selected by the Contractor.
- The retaining wall and tieback sheeting shall have a minimum published section modulus of 28.0 cu.in./ft.
- See sheet 2 for Section A-A and B-B.

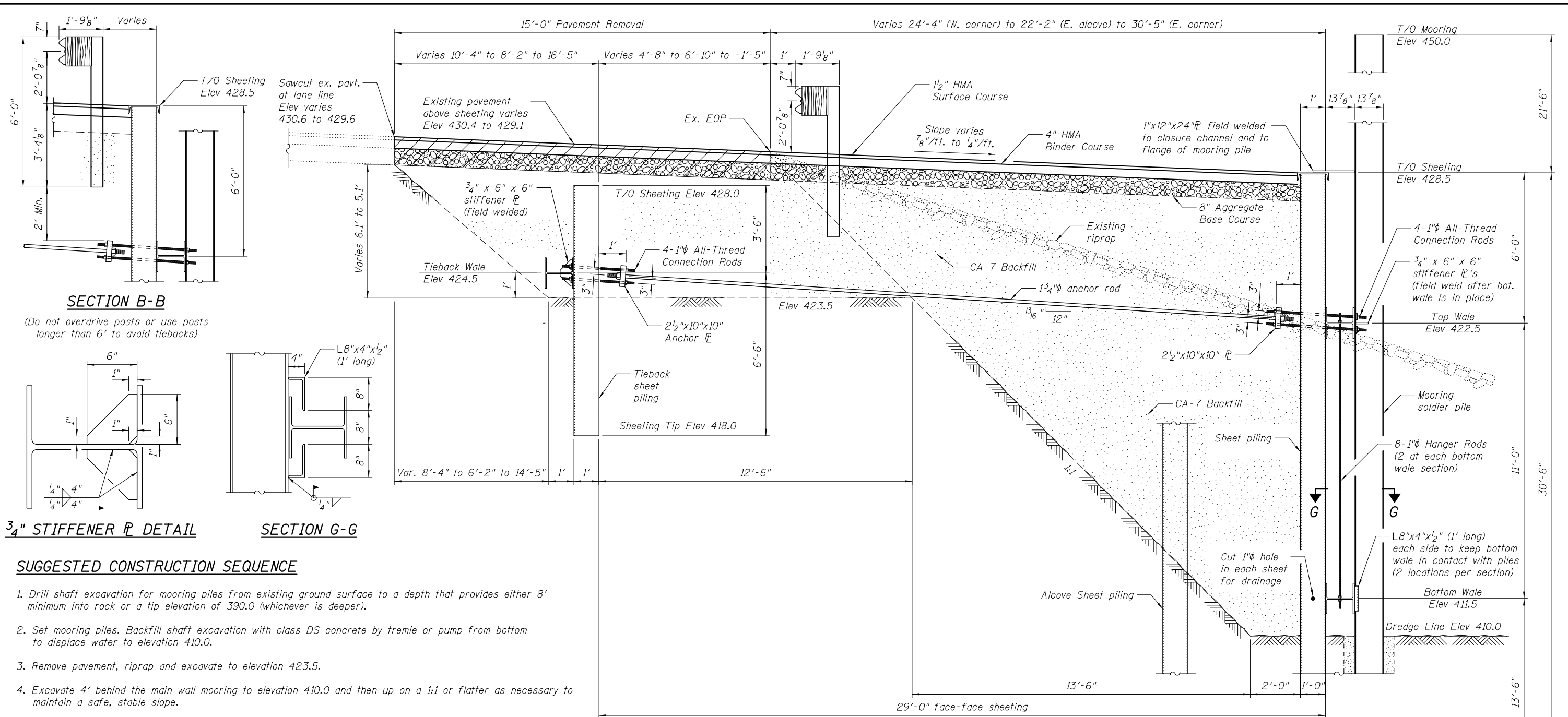


BRUSSELS FERRY HARBOR  
BUILT 2015 BY  
STATE OF ILLINOIS  
F.A.P. 304, SEC 21-5  
STATION 1155+00  
STRUCTURE NO. 042-W001

**NAME PLATE**  
See Std. 515001

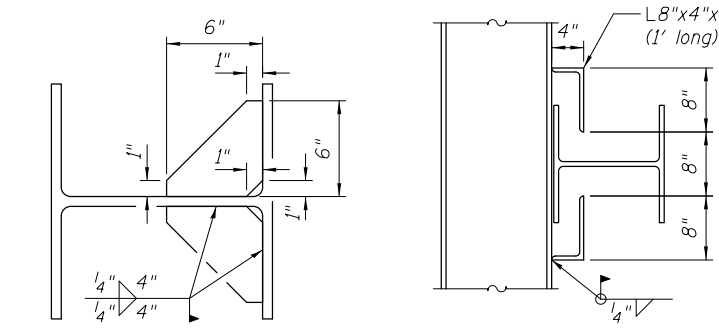
EXPIRES 11-30-2014

DESIGNED - John Uahle	EXAMINED - [Signature]	DATE - SEPTEMBER 18, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND ELEVATION 042-W001 SHEET NO. 1 OF 5 SHEETS	F.A.P. RTE. 304	SECTION 21-5	COUNTY JERSEY	TOTAL SHEETS	SHEET NO.
CHECKED - Bill Kramer	PASSED - [Signature]	REVIS						20	10
DRAWN - John Uahle	REVIS	CONTRACT NO. 76694							
CHECKED - Bill Kramer	REVIS	[ILLINOIS] FED. AID PROJECT							



**SECTION B-B**

(Do not overdrive posts or use posts longer than 6' to avoid tiebacks)



**3/4" STIFFENER I BEAM DETAIL**

**SECTION G-G**

**SUGGESTED CONSTRUCTION SEQUENCE**

1. Drill shaft excavation for mooring piles from existing ground surface to a depth that provides either 8' minimum into rock or a tip elevation of 390.0 (whichever is deeper).
2. Set mooring piles. Backfill shaft excavation with class DS concrete by tremie or pump from bottom to displace water to elevation 410.0.
3. Remove pavement, riprap and excavate to elevation 423.5.
4. Excavate 4' behind the main wall mooring to elevation 410.0 and then up on a 1:1 or flatter as necessary to maintain a safe, stable slope.
5. Tack weld top wale at elevation 422.5 and hang bottom wale below water to bear against the mooring pile at elevation 411.5.
6. Drive wall sheeting against top and bottom wales to the top of rock. Install sheeting closure channel.
7. Place uncompacted CA-7 behind wall sheeting and within alcoves (in equal lifts) up to water level or until mooring pile deflection is noted (whichever occurs first).
8. Place additional CA-7 within alcove, cut alcove sheeting stairstepped at landing elevations, install alcove closure channels, form and pour concrete landings.
9. Place riprap cone in front of both sheeting wingwalls as shown to the proposed finished grade.
10. Drive tieback sheeting and tack weld tieback wale at elevation 424.5.
11. Install anchor rods and connection rod assemblies.
12. Place compacted CA-7 in front and behind anchor sheeting to elevation 428.0.
13. Place any uncompacted CA-7 to water level and then compacted CA-7 to bottom of 8" aggregate base course.
14. Place aggregate base course, pavement, guardrail, etc.

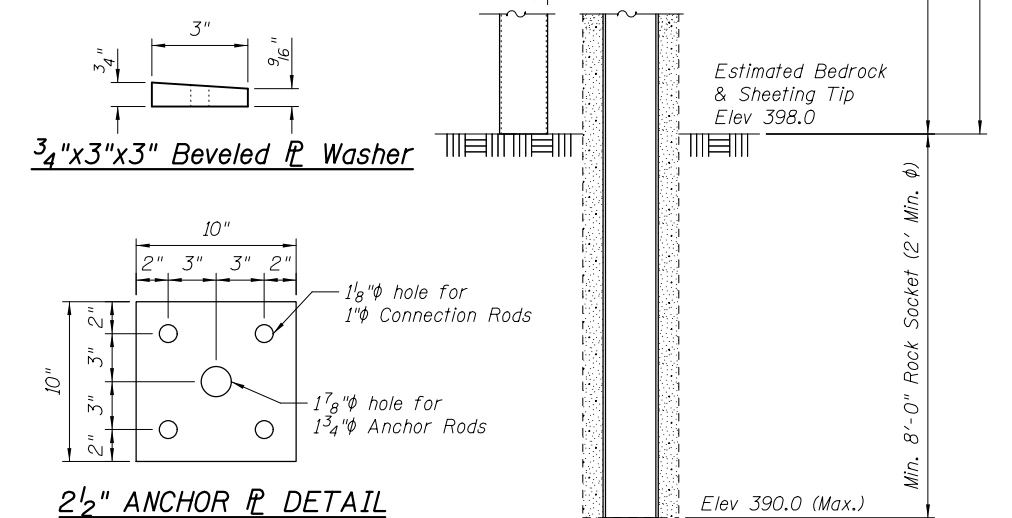
**NOTES**

The 1" All-Thread connection rods shall have standard washers at the 2 1/2" anchor I-beam and 3/4"x3"x3" beveled I-beam washers with nuts at the water end.

The holes for the 1" connection rod shall be field drilled 1 1/8" in the flanges of the mooring piles and the tie-back wales, prior to tack welding the wale. The holes in the tie-back sheeting, wall sheeting, and top wale may be torch-cut with a maximum 1 1/2" hole, using the field drilled holes as a template.

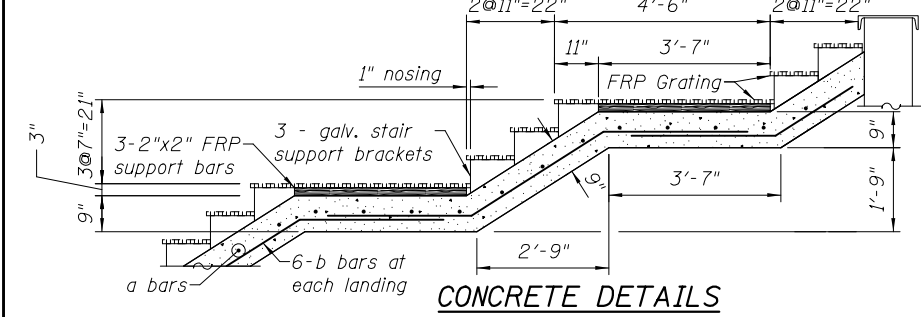
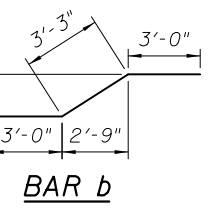
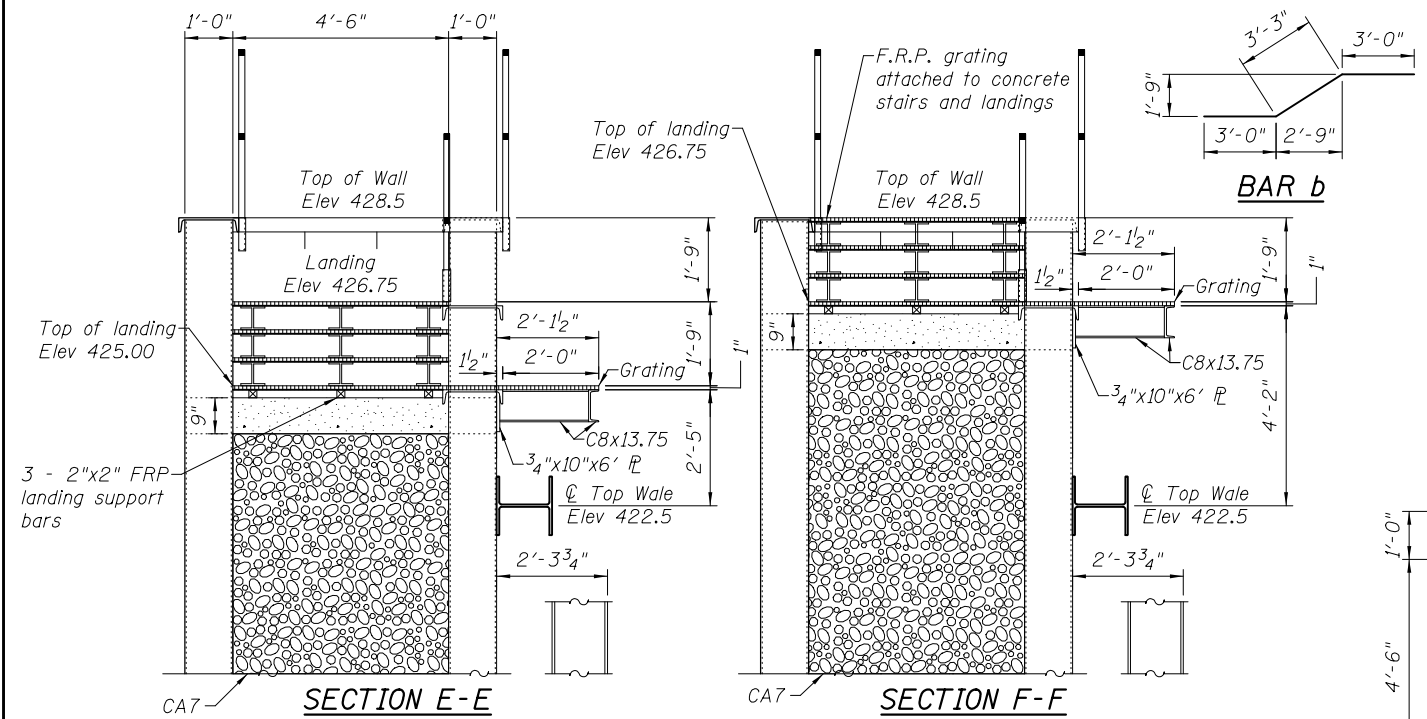
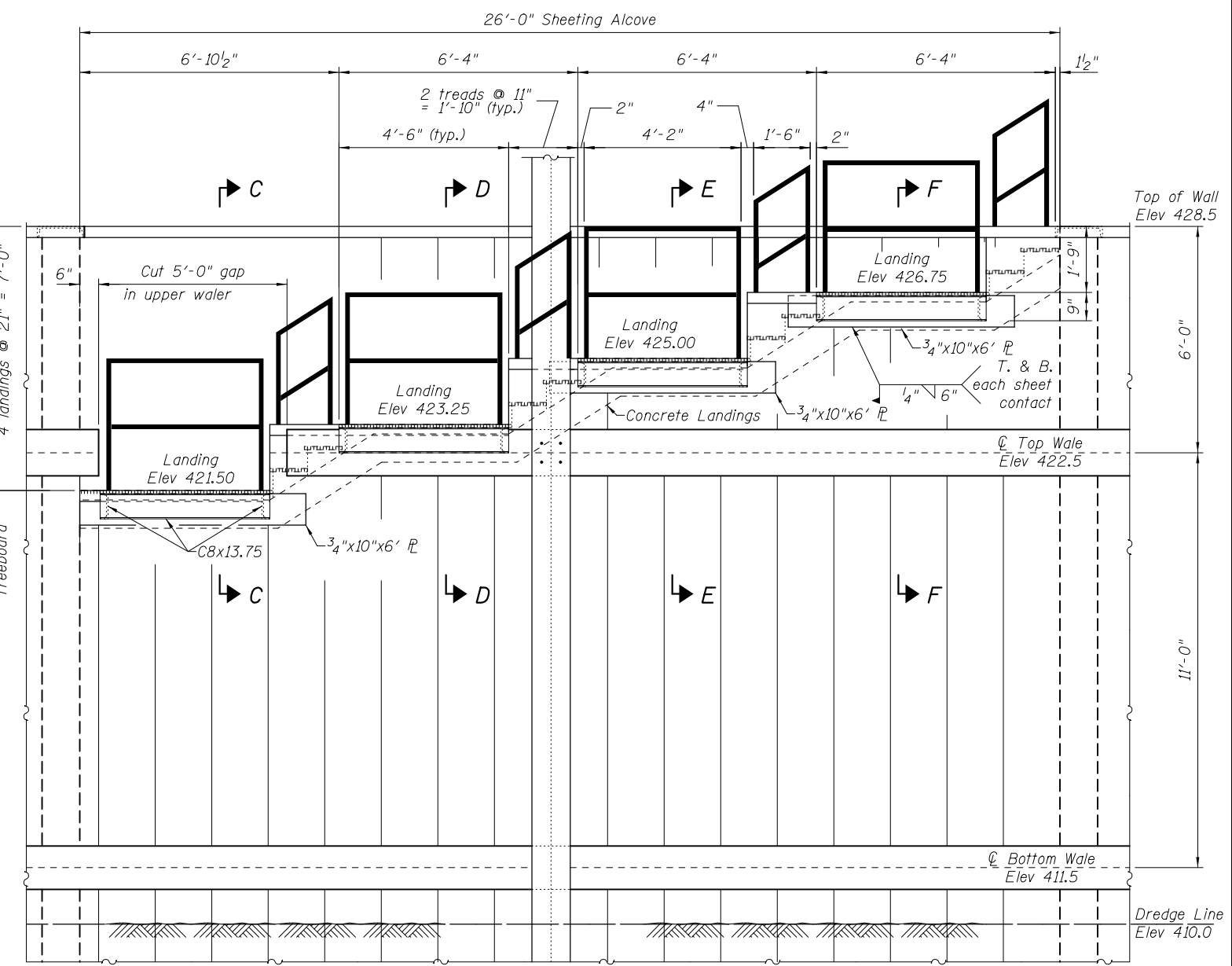
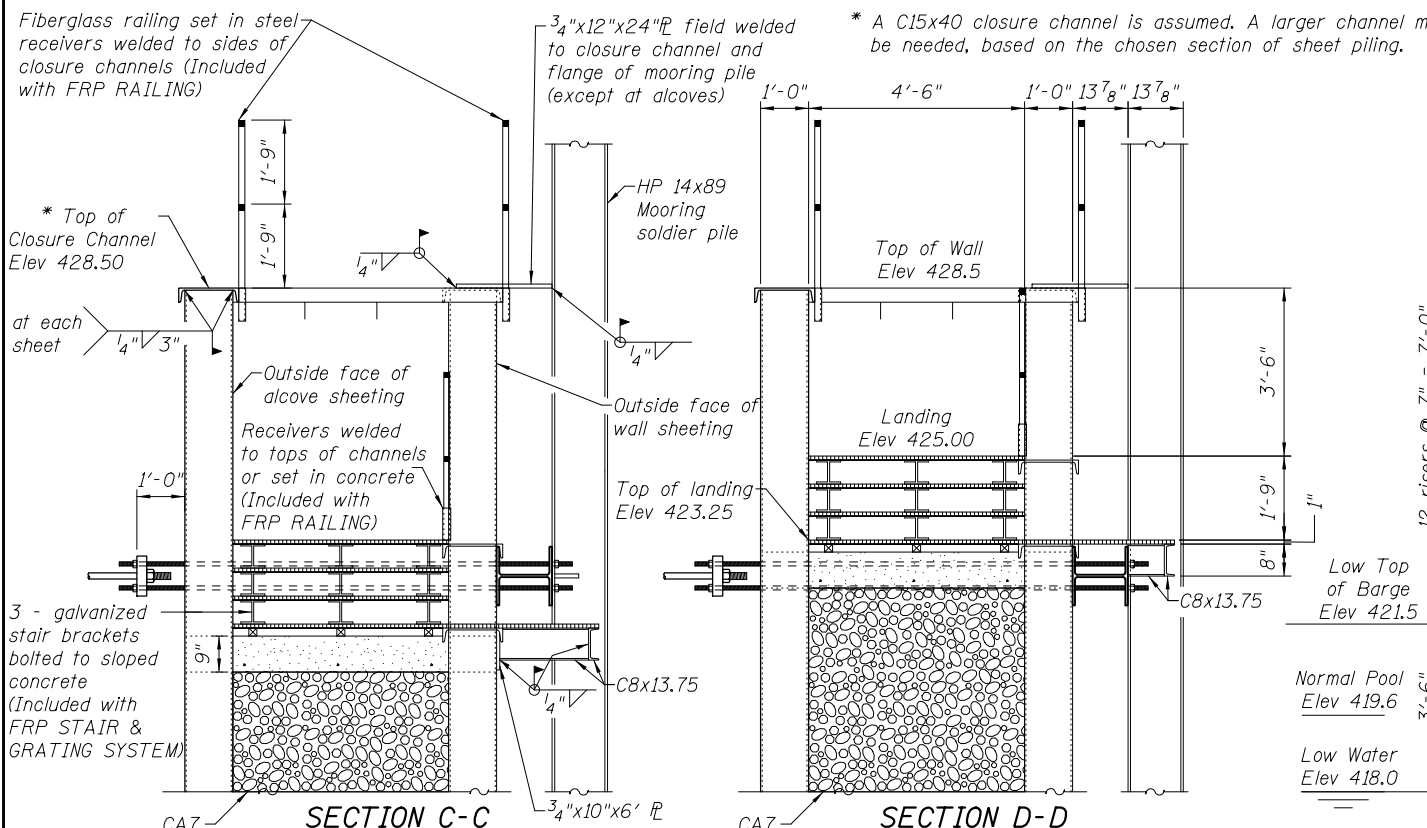
All soldier piles and wales are HP14x89.

All 1" connection rods, 1" hanger rods, nuts, and washers shall be ASTM A722.

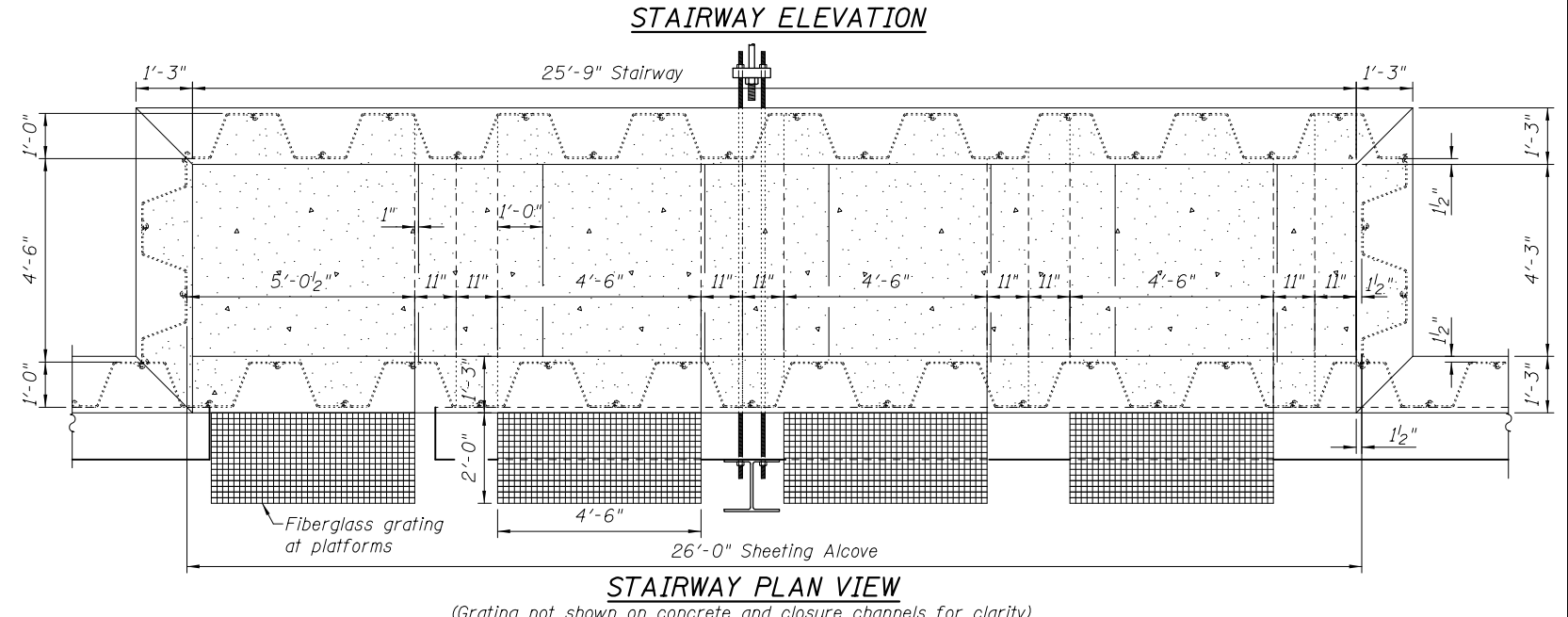


**2 1/2" ANCHOR I BEAM DETAIL**

DESIGNED - John Uehle	EXAMINED - <i>James F. J. [Signature]</i>	DATE - SEPTEMBER 18, 2014	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WALL CROSS-SECTION 042-W001</b>	F.A.P. RTE. 304	SECTION 2I-5	COUNTY JERSEY	TOTAL SHEETS 20	SHEET NO. 11	
CHECKED - Bill Kramer	PASSED - <i>Carl [Signature]</i>	REVISED -			CONTRACT NO. 76C94					
DRAWN - John Uehle	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			ILLINOIS FED. AID PROJECT					
CHECKED - Bill Kramer	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 2 OF 5 SHEETS					



Bar	No.	Size	Length	Shape
a	56	#5	5'-3"	—
b	48	#5	9'-3"	—
Reinforcement Bars, Epoxy Coated			Pound	770
Concrete Superstructure			Cu. Yds.	8.5





Illinois Department of Transportation  
Division of Highways  
Bureau of Transportation

**SOIL BORING LOG**

Page 1 of 2  
Date 2/18/14

ROUTE	Unmarked	DESCRIPTION	Brussels Ferry - Seawall	LOGGED BY	TSI (JS)
SECTION	LOCATION NW 1/4, SEC. 13, TWP. 6N, RNG. 14W, 3 PM				
COUNTY	Jersey	DRILLING METHOD	Hollow Stem Auger	HAMMER TYPE	Automatic
STRUCT. NO.		D	B	U	M
Station		E	L	C	O
		P	O	S	I
		T	W	S	S
		H	S	Q	T
BORING NO.	B-1	Surface Water Elev. _____ ft			
Station		Stream Bed Elev. _____ ft			
Offset		Groundwater Elev.: _____ ft			
Ground Surface Elev.	ft 430.3	(ft)	(#)	(%)	(tsf)
Asphalt Concrete over Crushed Limestone					
Brown and Gray (Medium Stiff, Moist) Silty Clay LOAM (continued)					
Brown (Stiff, Moist) Silty LOAM A-4(0) See Class @ 2 ft					
Brown and Gray (Medium Stiff, Moist) Silty Clay LOAM A-4(0) See Class @ 10 ft					
Gray 1" Sand Seam					
Weathered LIMESTONE					
Soft					

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)



Illinois Department of Transportation  
Division of Highways  
Bureau of Transportation

**SOIL BORING LOG**

Page 1 of 2  
Date 2/18/14

ROUTE	Unmarked	DESCRIPTION	Brussels Ferry - Seawall	LOGGED BY	TSI (JO)
SECTION	LOCATION NW 1/4, SEC. 13, TWP. 6N, RNG. 14W, 3 PM				
COUNTY	Jersey	DRILLING METHOD	Hollow Stem Auger	HAMMER TYPE	Automatic
STRUCT. NO.		D	B	U	M
Station		E	L	C	O
		P	O	S	I
		T	W	S	S
		H	S	Q	T
BORING NO.	B-2	Surface Water Elev. _____ ft			
Station		Stream Bed Elev. _____ ft			
Offset		Groundwater Elev.: _____ ft			
Ground Surface Elev.	ft 429.8	(ft)	(#)	(%)	(tsf)
Asphalt Concrete over Crushed Limestone					
Gray (Soft, Moist) Silty CLAY (Aluminum) (continued)					
Brown (Stiff, Moist) Silty LOAM A-4(0) See Class @ 5 ft					
Brown (Medium Dense, Wet) SAND with some Shells See Gradation @ 25 ft					
Gray (Medium Stiff, Moist) Silty LOAM (Aluminum) A-4(4) See Class @ 7 ft					
Gray (Soft, Moist) Silty CLAY (Aluminum)					
Brown Weathered LIMESTONE					
Gray (Soft, Moist) CLAY (Aluminum)					
Gray (Soft, Moist) Silty CLAY (Aluminum)					

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)



Illinois Department of Transportation  
Division of Highways  
Bureau of Transportation

**SOIL BORING LOG**

Page 1 of 1  
Date 2/19/14

ROUTE	Unmarked	DESCRIPTION	Brussels Ferry - Seawall	LOGGED BY	TSI (JP)
SECTION	LOCATION NW 1/4, SEC. 13, TWP. 6N, RNG. 14W, 3 PM				
COUNTY	Jersey	DRILLING METHOD	Hollow Stem Auger	HAMMER TYPE	Automatic
STRUCT. NO.		D	B	U	M
Station		E	L	C	O
		P	O	S	I
		T	W	S	S
		H	S	Q	T
BORING NO.	B-3	Surface Water Elev. _____ ft			
Station		Stream Bed Elev. _____ ft			
Offset		Groundwater Elev.: _____ ft			
Ground Surface Elev.	ft 429.6	(ft)	(#)	(%)	(tsf)
Asphalt Concrete over Crushed Limestone					
Gray and Brown (Soft, Wet) Silty CLAY (continued)					
Brown to Gray (Medium Dense, Moist) Silty LOAM A-4(0) See Class @ 5 ft					
Brown (Dense, Wet) SAND with Trace Shells (Aluminum) See Gradation @ 25 ft					
Gray (Medium Stiff, Moist) Silty LOAM (Aluminum) A-4(5) See Class @ 7 ft					
Gray (Soft, Moist) Silty CLAY (Aluminum)					
Very soft					
Gray (Medium Stiff, Moist) Silty Clay LOAM (Aluminum)					
Gray and Brown (Soft, Wet) Silty CLAY					

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)

Rock cores were not taken at Boring B-3.



Illinois Department of Transportation  
Division of Highways  
Bureau of Transportation

**ROCK CORE LOG**

Page 2 of 2  
Date 2/18/14

ROUTE	Unmarked	DESCRIPTION	Brussels Ferry - Seawall	LOGGED BY	TSI (JS)
SECTION	LOCATION NW 1/4, SEC. 13, TWP. 6N, RNG. 14W, 3 PM				
COUNTY	Jersey	CORING METHOD			
STRUCT. NO.		D	C	R	C
Station		E	O	Q	T
		P	R	E	I
		T	E	D	M
		H	R	E	N
			Y	E	G
					T
					H
BORING NO.	B-1	Core Diameter 2 in			
Station		Top of Rock Elev. 396.80 ft			
Offset		Begin Core Elev. 396.80 ft			
Ground Surface Elev.	ft 430.3	(ft)	(#)	(%)	(min/ft)
Gray, Hard, Slightly Weathered, Finely Crystalline, LIMESTONE					
Gray, Moderately Hard, Weathered to Slightly Weathered, Finely Crystalline, Medium Bedded, LIMESTONE					
END OF BORING AND ROCK CORE					

Color pictures of the cores \_\_\_\_\_  
Cores will be stored for examination until \_\_\_\_\_  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
Bureau of Transportation

**ROCK CORE LOG**

Page 2 of 2  
Date 2/18/14

ROUTE	Unmarked	DESCRIPTION	Brussels Ferry - Seawall	LOGGED BY	TSI (JO)
SECTION	LOCATION NW 1/4, SEC. 13, TWP. 6N, RNG. 14W, 3 PM				
COUNTY	Jersey	CORING METHOD			
STRUCT. NO.		D	C	R	C
Station		E	O	Q	T
		P	R	E	I
		T	E	D	M
		H	R	E	N
			Y	E	G
					T
					H
BORING NO.	B-2	Core Diameter 2 in			
Station		Top of Rock Elev. 398.80 ft			
Offset		Begin Core Elev. 398.80 ft			
Ground Surface Elev.	ft 429.8	(ft)	(#)	(%)	(min/ft)
Gray, Moderately Hard to Hard, Slightly Weathered, Finely Crystalline, Thin to Medium Bedded, LIMESTONE					
Gray, Moderately Hard to Hard, Moderately Weathered, Finely Crystalline, Thin Bedded, LIMESTONE					
Chert Nodules					
END OF BORING AND ROCK CORE					

Color pictures of the cores \_\_\_\_\_  
Cores will be stored for examination until \_\_\_\_\_  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

DESIGNED -	EXAMINED	DATE -	SEPTEMBER 18, 2014
CHECKED -	PASSED	REVISOR	
DRAWN -		REVISOR	
CHECKED -			

ENGINEER OF STRUCTURAL SERVICES	
ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	SEPTEMBER 18, 2014
REVISOR	
REVISOR	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS B1-B3  
042-W001

SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	2I-5	JERSEY	20	13
CONTRACT NO. 76C94				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2 Date 2/19/14

Table with columns for SOIL BORING LOG including ROUTE, LOCATION, COUNTY, DRILLING METHOD, and soil data columns (D, B, U, M, etc.)

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, form 137 (Rev. 8-99)



Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1 Date 2/20/14

Table with columns for SOIL BORING LOG including ROUTE, LOCATION, COUNTY, DRILLING METHOD, and soil data columns (D, B, U, M, etc.)

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, form 137 (Rev. 8-99)



Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2 Date 2/20/14

Table with columns for SOIL BORING LOG including ROUTE, LOCATION, COUNTY, DRILLING METHOD, and soil data columns (D, B, U, M, etc.)

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, form 137 (Rev. 8-99)



Illinois Department of Transportation

ROCK CORE LOG

Page 2 of 2 Date 2/19/14

Table with columns for ROCK CORE LOG including ROUTE, LOCATION, COUNTY, CORING METHOD, and rock core data columns (R, C, Q, etc.)

Color pictures of the cores Cores will be stored for examination until The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, form 138 (Rev. 8-99)



Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1 Date 2/21/14

Table with columns for SOIL BORING LOG including ROUTE, LOCATION, COUNTY, DRILLING METHOD, and soil data columns (D, B, U, M, etc.)

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, form 137 (Rev. 8-99)



Illinois Department of Transportation

ROCK CORE LOG

Page 2 of 2 Date 2/20/14

Table with columns for ROCK CORE LOG including ROUTE, LOCATION, COUNTY, CORING METHOD, and rock core data columns (R, C, Q, etc.)

Color pictures of the cores Cores will be stored for examination until The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, form 138 (Rev. 8-99)

Rock cores were not taken at Borings B-5 or B-7.

Table with columns for DESIGNER, CHECKER, DRAWN, EXAMINED, PASSED, ENGINEER OF STRUCTURAL SERVICES, ENGINEER OF BRIDGES AND STRUCTURES

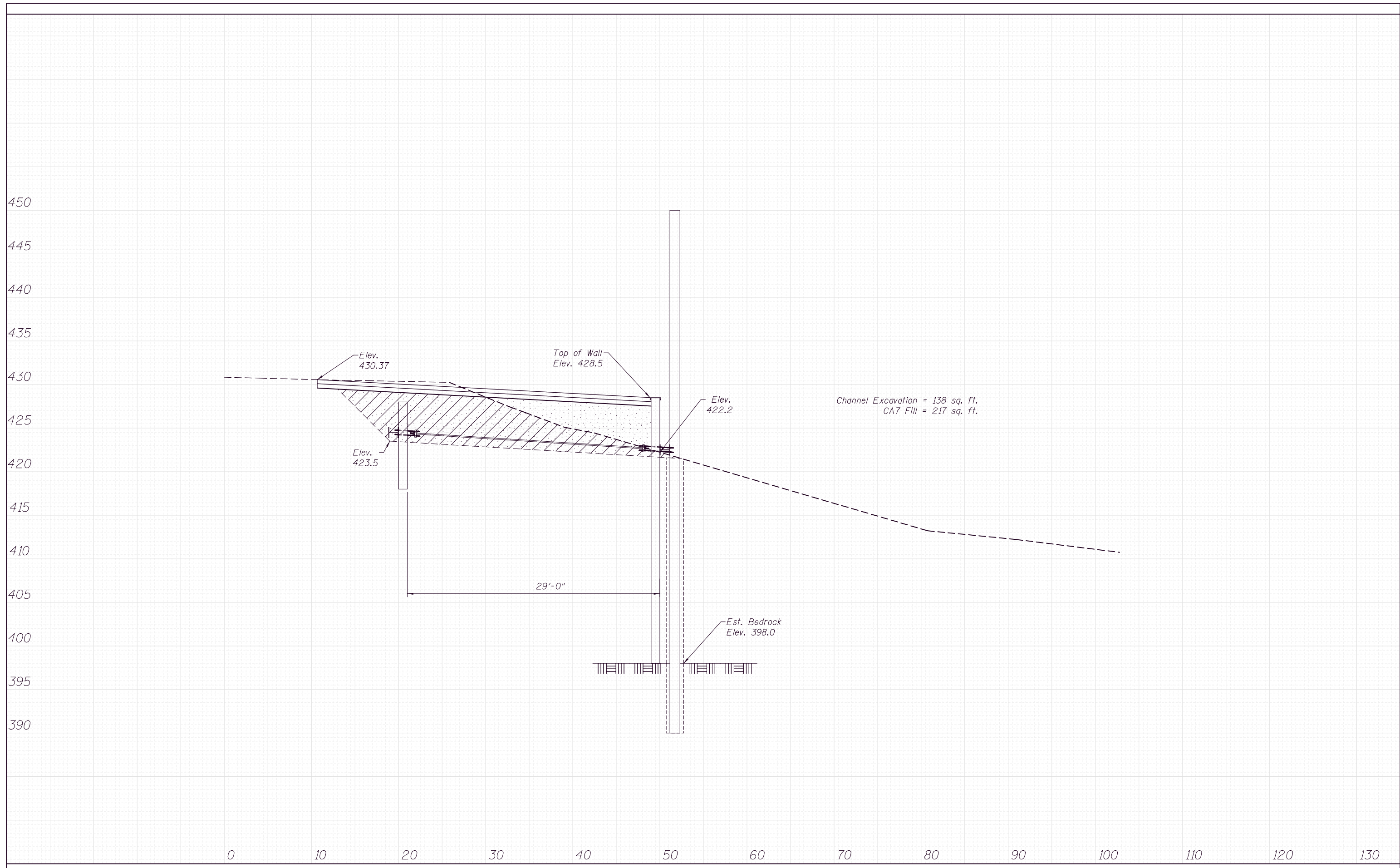
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Table with columns for SOIL BORING LOGS B4-B7, 042-W001, SHEET NO. 5 OF 5 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 76C94, ILLINOIS FED. AID PROJECT

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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

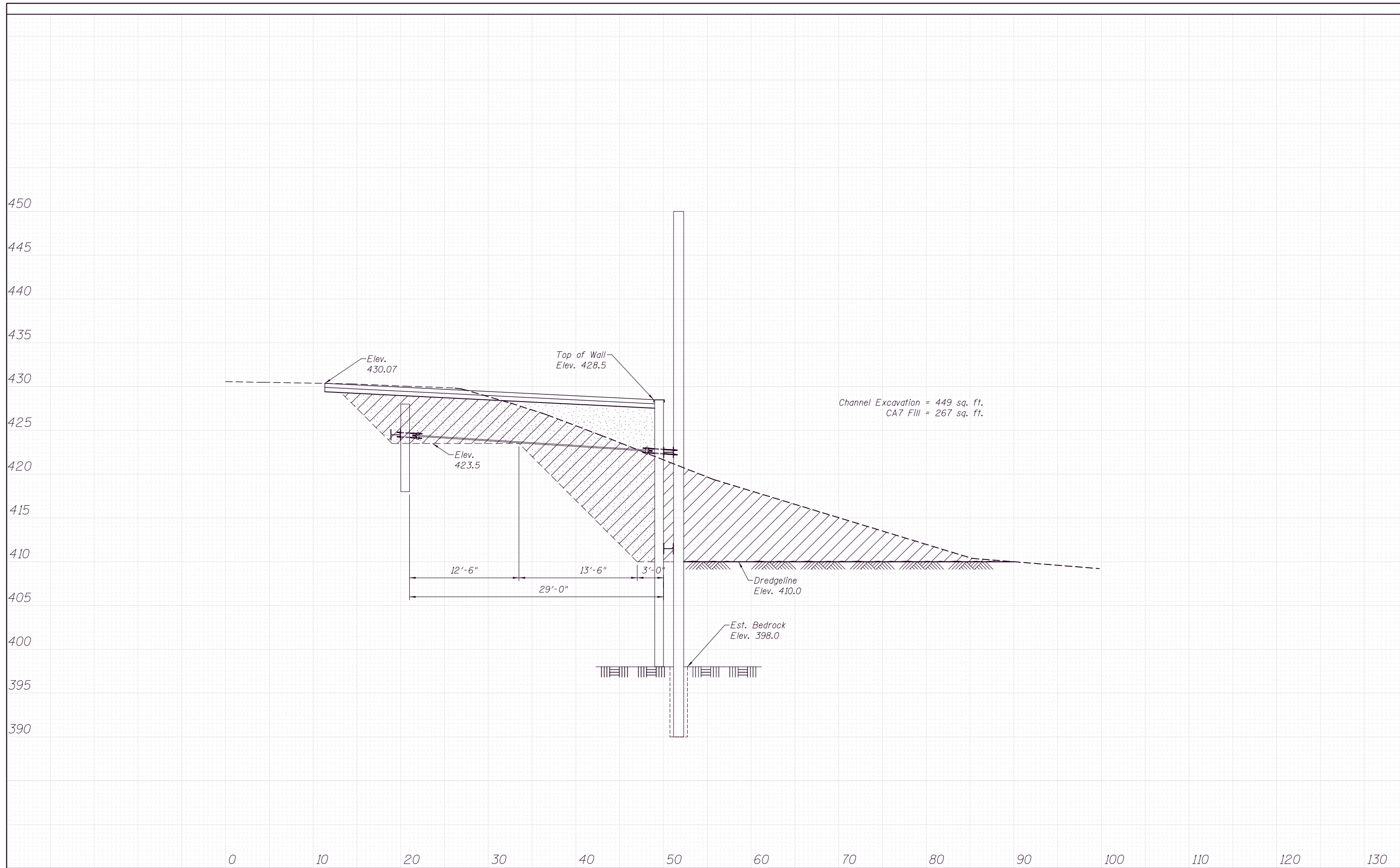
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = \$USER*	DESIGNED - John Uehle	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS SW CORNER</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN - Karen Challandes	REVISED -		304	2I-5	JERSEY	20	15				
*MODELNAME*		CHECKED - John Uehle	REVISED -		CONTRACT NO. 76C94				ILLINOIS FED. AID PROJECT				
		DATE - 9-18-14	REVISED -		SCALE: 1" = 10'	SHEET 1	OF 6 SHEETS	STA. 0+00	TO STA. 0+00				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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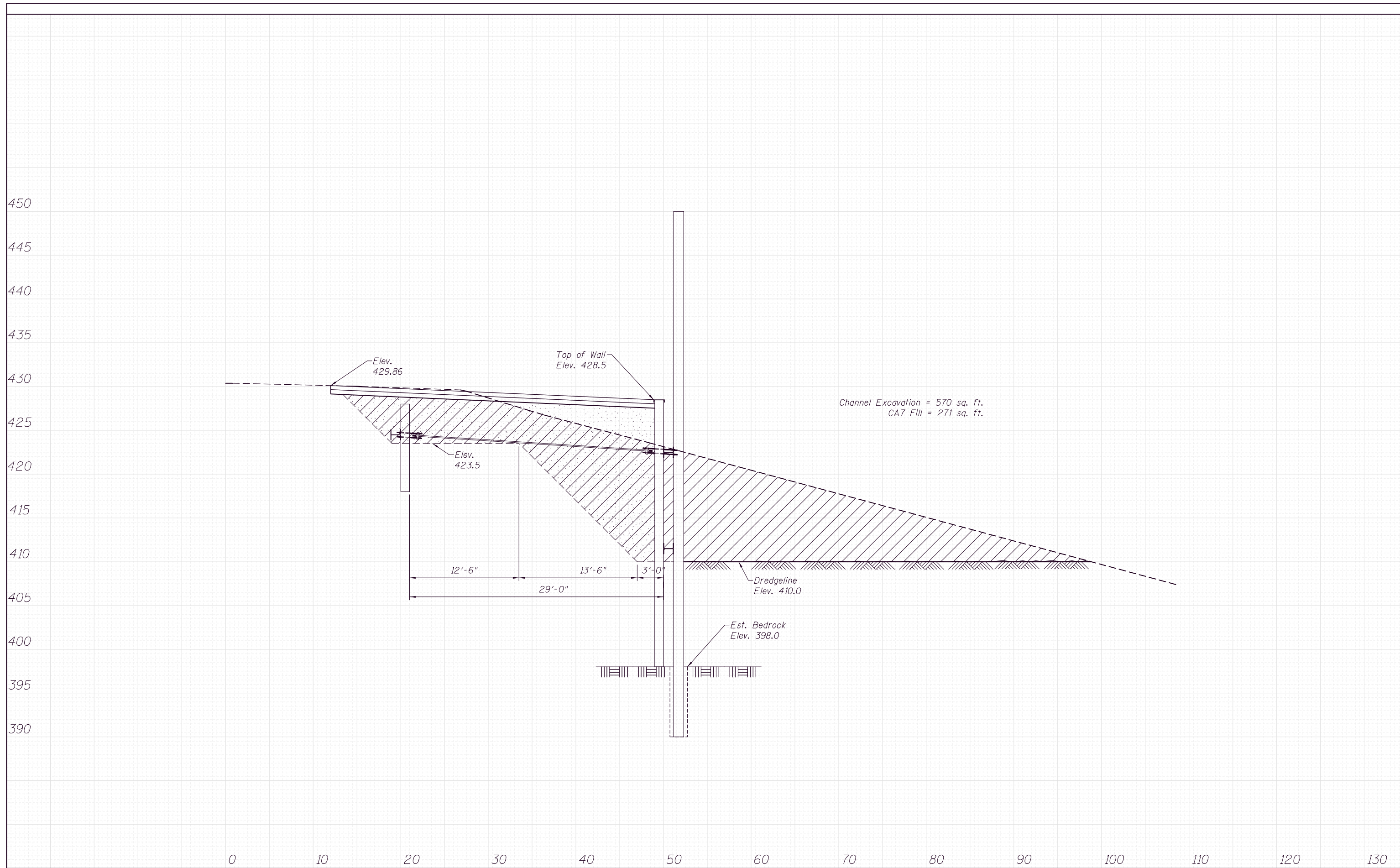
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = *USER*	DESIGNED - John Uehle	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN - Karen Challandes	REVISED -		304	21-5	JERSEY	20	16				
*MODELNAME*		CHECKED - John Uehle	REVISED -		SCALE: 1" = 10'    SHEET 2 OF 6 SHEETS    STA. 0+50 TO STA. 0+50				CONTRACT NO. 76G94				
		DATE - 9-18-14	REVISED -		ILLINOIS FED. AID PROJECT								

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL	
SURVEY	
NOTE BOOK	
NO.	

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AREAS	
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ORIGINAL	
SURVEY	
NOTE BOOK	
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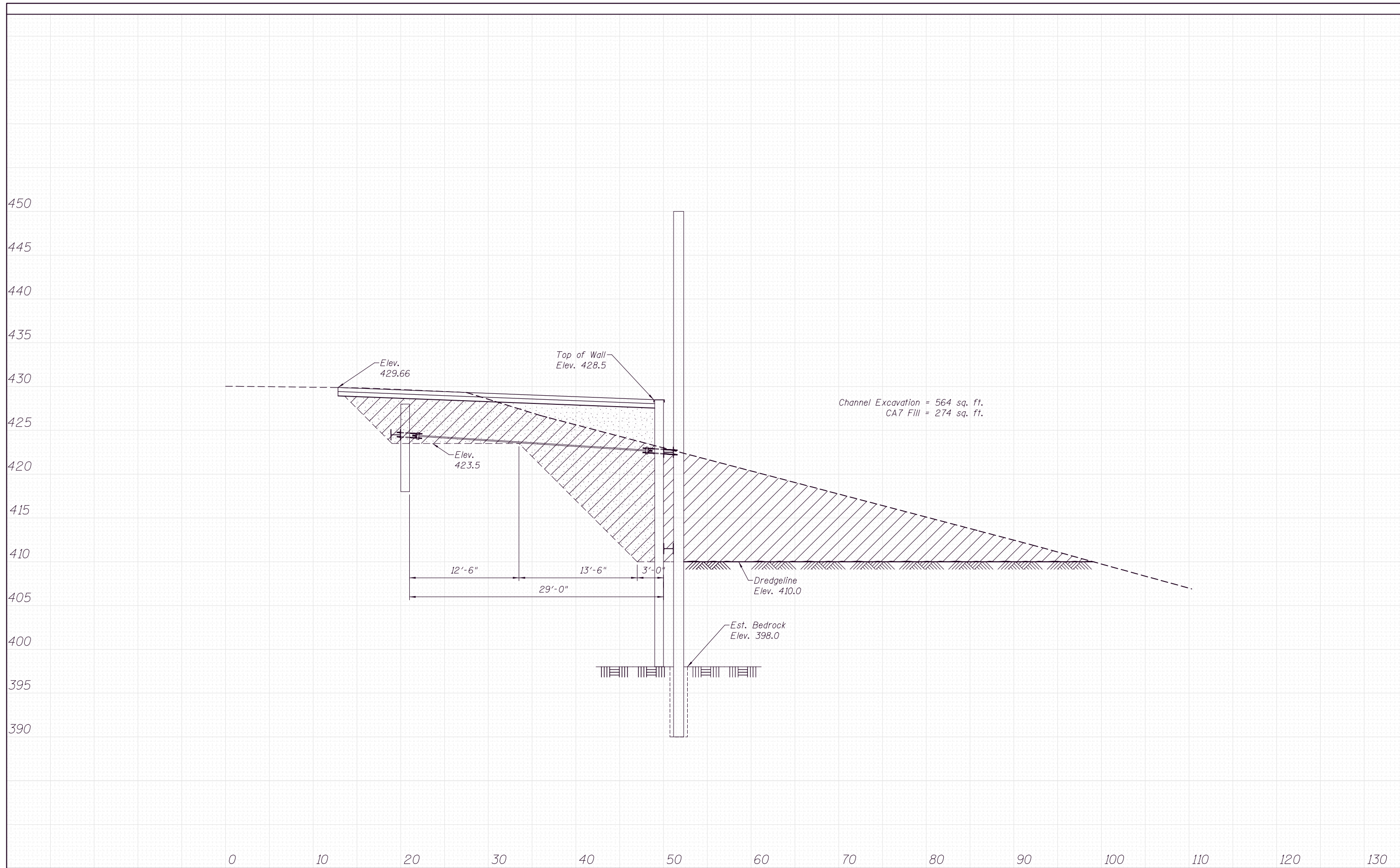


FILE NAME =	USER NAME = \$USER*	DESIGNED - John Uehle	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN - Karen Challandes	REVISED -		304	2I-5	JERSEY	20	17				
*MODELNAME*		CHECKED - John Uehle	REVISED -		SCALE: 1" = 10'    SHEET 3    OF 6    SHEETS    STA. 1+00    TO STA. 1+00				CONTRACT NO. 76C94				
		DATE - 9-18-14	REVISED -		ILLINOIS FED. AID PROJECT								



DATE	
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PLOTTED	
TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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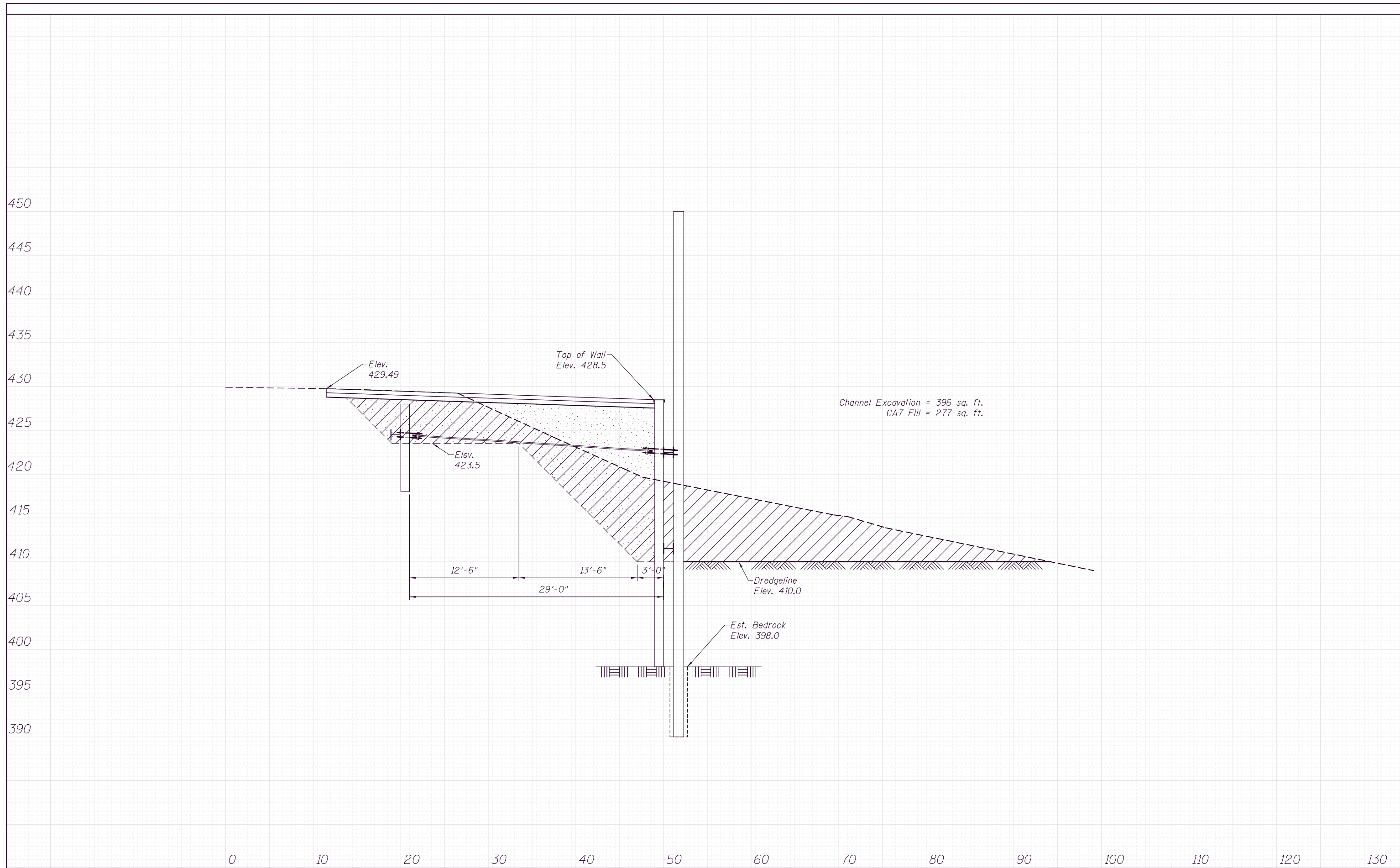
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NOTE BOOK	
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FILE NAME =	USER NAME = \$USER*	DESIGNED - John Uehle	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN - Karen Challandes	REVISED -		304	2I-5	JERSEY	20	18				
*MODELNAME*		CHECKED - John Uehle	REVISED -		SCALE: 1" = 10'    SHEET 4 OF 6 SHEETS    STA. 1+50 TO STA. 1+50				CONTRACT NO. 76C94				
		DATE - 9-18-14	REVISED -		ILLINOIS FED. AID PROJECT								

DATE	
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SURVEYED	
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TEMPLATE	
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CHECKED	
FINAL SURVEY	
NOTE BOOK	
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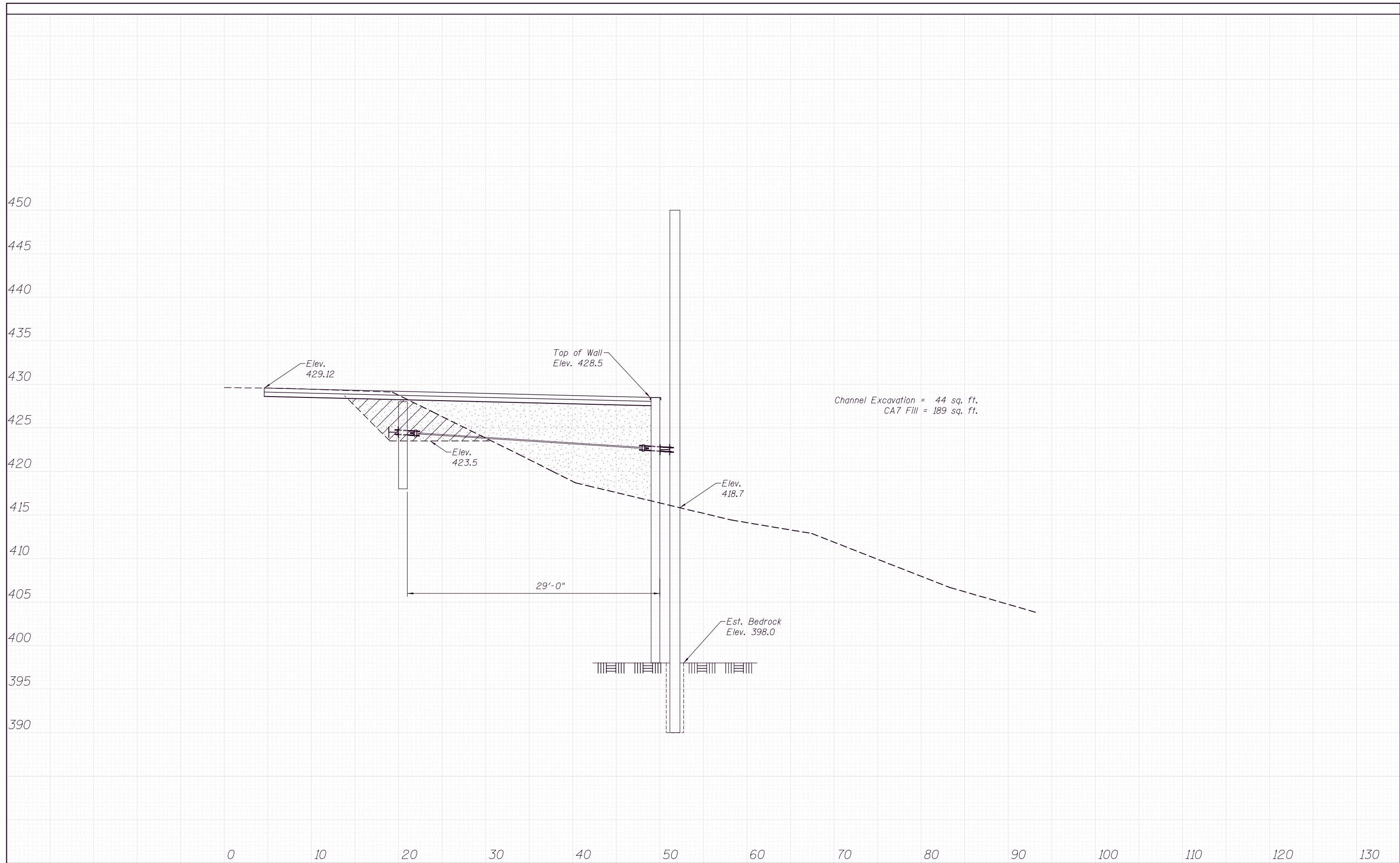
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SURVEYED	
PLOTTED	
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AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = \$USER*	DESIGNED - John Uehle	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN - Karen Challandes	REVISED -		304	21-5	JERSEY	20	19				
*MODELNAME*		CHECKED - John Uehle	REVISED -		SCALE: 1" = 10'    SHEET 5 OF 6 SHEETS    STA. 2+00 TO STA. 2+00				CONTRACT NO. 76C94				
		DATE - 9-18-14	REVISED -		ILLINOIS FED. AID PROJECT								

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = \$USER*	DESIGNED - John Uehle	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>SE CORNER</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL*		DRAWN - Karen Challandes	REVISED -		304	2I-5	JERSEY	20	20	CONTRACT NO. 76G94			
*MODELNAME*		CHECKED - John Uehle	REVISED -		SCALE: 1" = 10'			SHEET 6	OF 6 SHEETS	STA. 2+50	TO STA. 2+50	ILLINOIS FED. AID PROJECT	
		DATE - 9-18-14	REVISED -										