

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM**

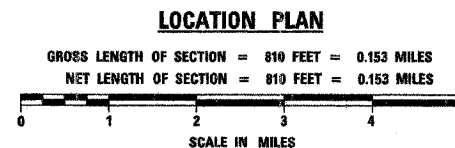
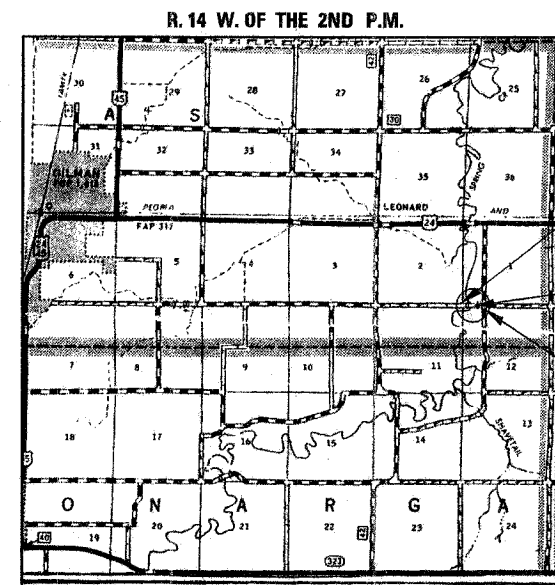
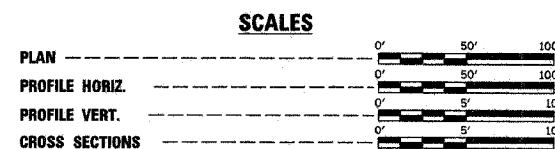
DOUGLAS ROAD DISTRICT
SECTION 01-11127-00-BR
IROQUOIS COUNTY
PROJECT NO. BROS-075(126)
T.R. ROUTE 189
C-93-094-04

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	1
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

SHEET NO.	TITLE
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES, GENERAL NOTES & TYPICAL SECTIONS
3.	PLAN AND PROFILE SHEET
4.-9.	BRIDGE PLANS
10.-13.	BORINGS
14.-19.	STATION CROSS SECTIONS
20.	EROSION CONTROL PLAN

STANDARDS:
280001-03
515001-02
631028-03
635006-02
702001-06
BLR 21-6



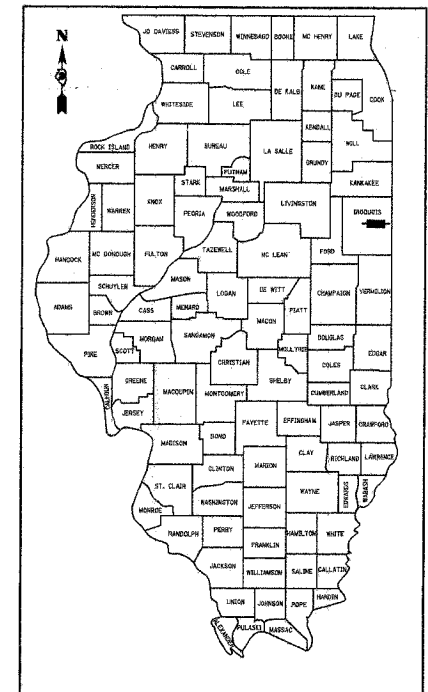
IMPROVMENT BEGINS
STA. 11+00

STA. 15+07 - SPECIAL BRIDGE DESIGN
PRECAST PRESTRESSED CONCRETE
DECK BEAM BRIDGE - 2 SPANS AT
86'-0", 86'-0", 30' ROADWAY, SKEW=0°
EXISTING S.N. 038-4038
PROPOSED S.N. 038-4056

IMPROVMENT ENDS
STA. 19+10



Fred J. Stone, (12-13-06)
ILLINOIS PROFESSIONAL NO. 26065
EXPIRES 11-30-07



LOCATION OF SECTION INDICATED THUS: —

CLASSIFICATION: LOCAL ROAD 0-250
CURRENT ADT: <150 ADT
3R DESIGN GUIDELINES
DESIGN SPEED: 30 MPH

TOLL FREE JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS (J.U.L.I.E.)
TELEPHONE NUMBER 1-800-892-0123

PASSED	December 18, 2006	2006
Rogers Peterson ROAD DISTRICT COMMISSIONER		
APPROVED	December 18, 2006	2006
J. M. M. COUNTY ENGINEER		
PASSED	December 21, 2006	2006
Ken Lundy DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS		
RELEASED FOR BID BASED ON LIMITED REVIEW	December 21, 2006	2006
Dennis O'Leary DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER		
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

CONTRACT NO. 87287

4440 ASH GROVE
SPRINGFIELD, IL 62711
(217) 793-8800
www.fehr-graham.com

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PROFESSORS, ENGINEERS, ARCHITECTS, LANDSCAPE ARCHITECTS, PLANNERS, HISTORIC PRESERVATION, ENVIRONMENTAL, AND TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	2
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

SUMMARY OF QUANTITIES

NUMBER	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	20
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24
* 20100500	TREE REMOVAL, ACRES	ACRE	0.4
20200100	EARTH EXCAVATION	CU YD	951
20300100	CHANNEL EXCAVATION	CU YD	770
20400800	FURNISHED EXCAVATION	CU YD	421
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.9
28000250	TEMPORARY EROSION CONTROL SEEDINGS	POUND	180
28000300	TEMPORARY DITCH CHECKS	EACH	4
28000400	PERIMETER EROSION BARRIER	FOOT	670
28000500	INLET AND PIPE PROTECTION	EACH	2
28100207	STONE RIPRAP, CLASS A4	TON	475
28200200	FILTER FABRIC	SQ YD	637
* 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1161
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	72.4
* 50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	5160
50800105	REINFORCEMENT BARS	POUND	6510
50900205	STEEL RAILING, TYPE S1	FOOT	344
51201105	FURNISHING METAL SHELL PILES 14"	FOOT	1061
* 51202305	DRIVING PILES	FOOT	1061
51203200	TEST PILE METAL SHELLS	EACH	3
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	42
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	76
67100100	MOBILIZATION	L SUM	1
* 70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1

*SEE SPECIAL PROVISIONS

GENERAL NOTES

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 0.9 ACRE

ALL TREES BETWEEN THE LIMITS SHOWN BELOW AND THE ADJACENT SHOWN R.O.W. WHICH INTERFERE WITH THE CONSTRUCTION SHALL BE REMOVED ONLY AS DIRECTED BY THE ENGINEER. SEE THE SPECIAL PROVISIONS.

10' RT. STA. 11+00 TO 10' RT. STA. 16+50

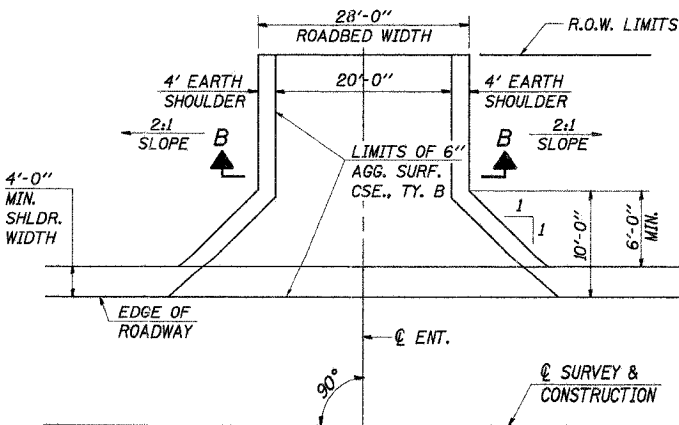
TREE REMOVAL, ACRES = 0.4 ACRE

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

30' RT. STA. 17+00 - 12 UNITS
28' RT. STA. 18+83 - 8 UNITS

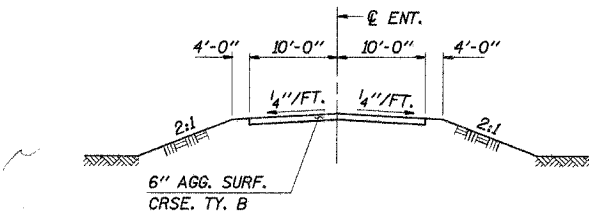
TREE REMOVAL (OVER 15 UNITS DIAMETER)

27' RT. STA. 18+09 - 24 UNITS

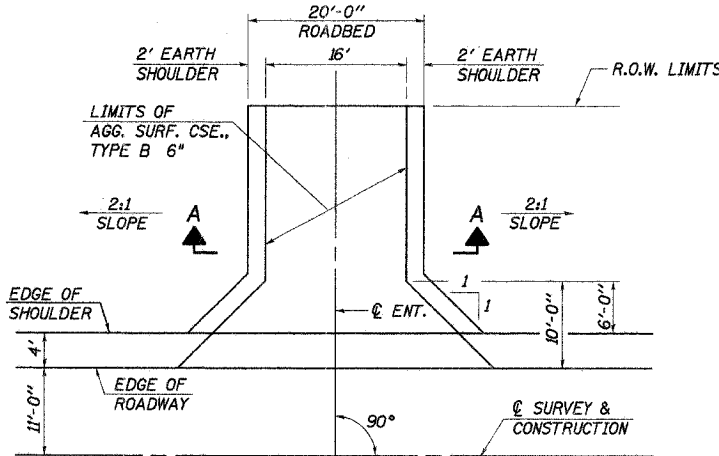


ENTRANCE DETAIL

F.E. LT. STA. 16+97
P.E. RT. STA. 18+47

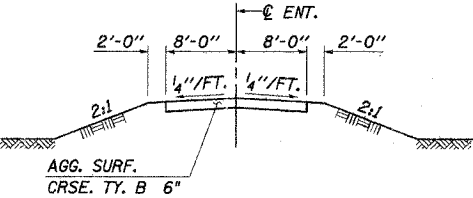


SECTION B-B



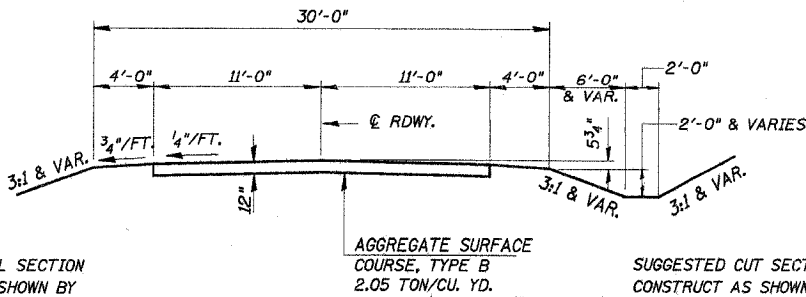
ENTRANCE DETAIL

P.E. RT. STA. 16+86



SECTION A-A

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN BY
STATION CROSS SECTIONS

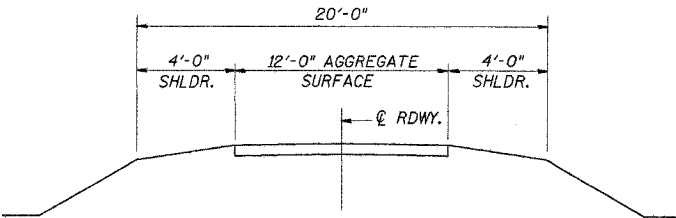


TYPICAL PROPOSED CROSS SECTION

STA. 12+00 TO STA. 18+10

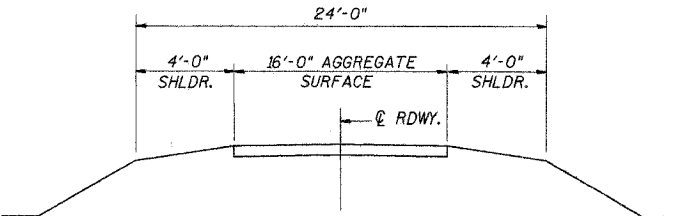
ROAD CLASSIFICATION: LOCAL ROAD ADT 0-250
CURRENT ADT LESS THAN 150

TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY
TO BE CONSTRUCTED FROM STA. 11+00 TO STA. 12+00 AND
FROM STA. 18+10 TO STA. 19+10.



EXISTING TYPICAL CROSS SECTION

WEST APPROACH



EXISTING TYPICAL CROSS SECTION

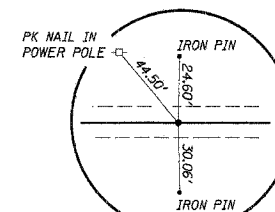
EAST APPROACH

SUMMARY OF QUANTITIES, GENERAL NOTES
AND TYPICAL CROSS SECTION
SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

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FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
HARTFORD, CT ROCHESTER, NY ROCKFORD, IL SPRINGFIELD, IL

JOB NO.: 46816
FILE: SUMTYP.DGN
DATE: 12/08/06



P.I. STA. 20+96.30
IRON PIN (FLUSH)

EXISTING STRUCTURE 038-4038

SINGLE SPAN PRATT THRU TRUSS - EYEBAR BRIDGE
CLOSED CONCRETE ABUTMENT AND WINGWALLS (EAST)
CLOSED STONE ABUTMENT AND WINGWALLS (WEST)
120'-6" BK. TO BK. ABUTS.
16'-3" ROADWAY, 18'-3" O. TO O. DECK
REMOVAL OF EXISTING STRUCTURE = 1 EACH

OVERHEAD TRANSMISSION LINES

AMEREN
370 S. MAIN
DECATUR, IL 62523
MIKE KURECKI
217-424-6430

BURIED CABLE

AT&T
65 W. WEBSTER 4TH FLOOR
JOLIET, IL 60432
DAN CHRISTINE
815-727-0575

OVERHEAD POWER

EASTERN ILLINI ELECTRIC COOP.
P.O. BOX 96
PAXTON, IL 60957
BILL HOFFSCHNEIDER
217-379-2131 EXT. 155

ENTRANCES TO BE BUILT

RT. STA. 16+86, P.E. -0.6%, 20' ROADBED
LT. STA. 16+97, F.E. +11.0%, 28' ROADBED
RT. STA. 18+47, P.E. +3.0%, 28' ROADBED
QUANTITIES INCLUDED IN THOSE LISTED

P.I. STA. 10+00.00
IRON PIN (FLUSH)

IMPROVMENT BEGINS
STA. 11+00

CHANNEL EXCAVATION

THE CHANNEL SHALL BE EXCAVATED AS SHOWN WITHIN THE LIMITS OF THE PROPOSED STRUCTURE THEN TAPER TO THE EXISTING CHANNEL AT THE R.O.W. LINES. SUITABLE EXCAVATED MATERIAL TO BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.

CHANNEL EXCAVATION = 770 CU. YD.

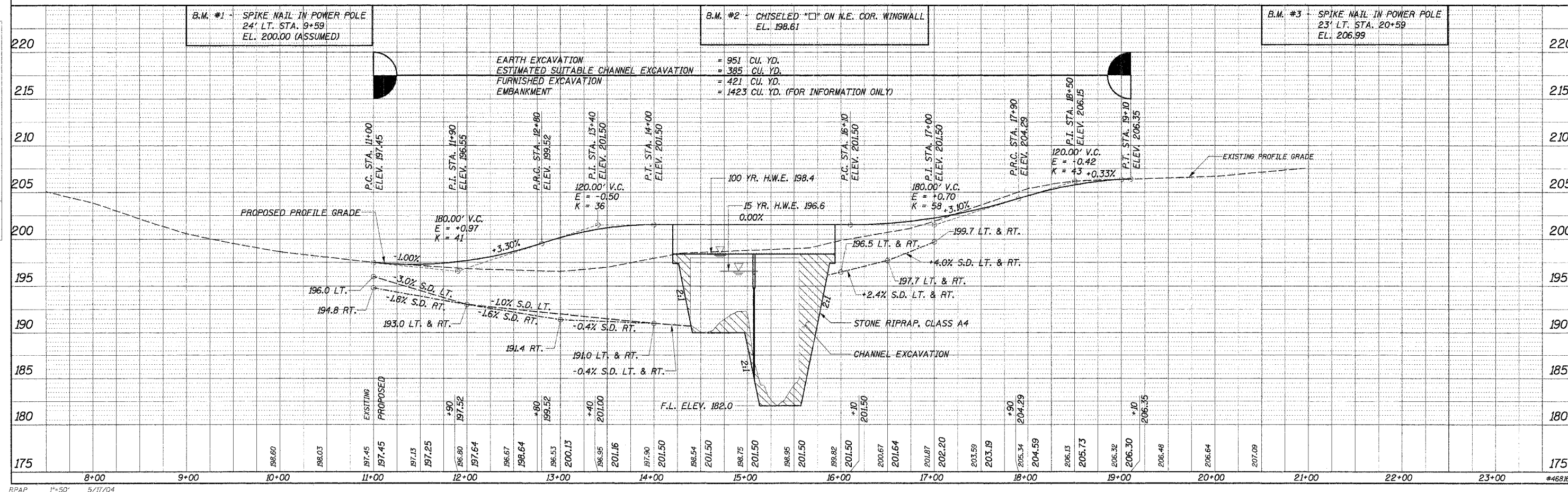
PIPES TO BE REMOVED

RT. STA. 16+86, 18" PLA, 20' LONG
LT. STA. 16+97, 12" CMP, 20' LONG
RT. STA. 18+47, 12" CMP, 36' LONG
INCIDENTAL TO "EARTH EXCAVATION"

HAUN TRUST

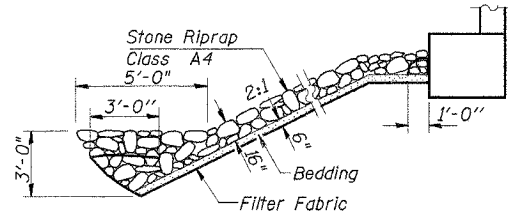
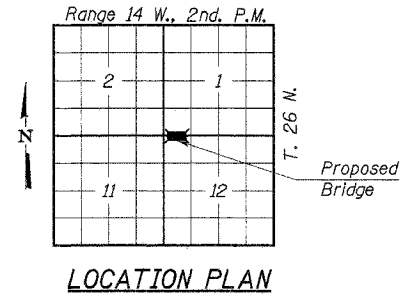
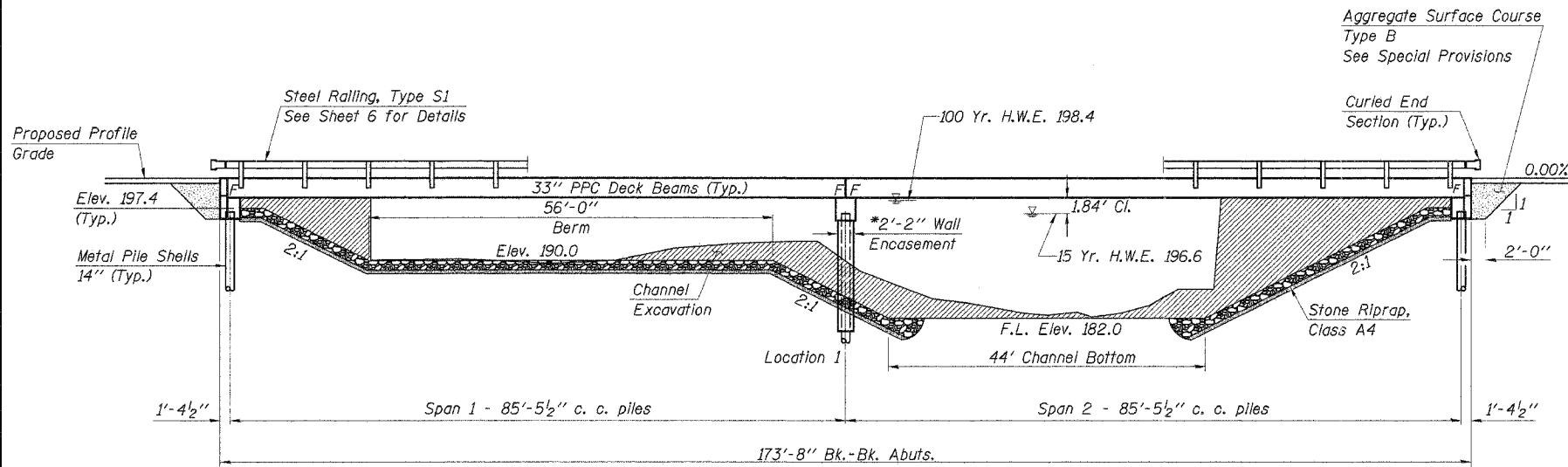
N.W. $\frac{1}{4}$, N.W. $\frac{1}{4}$, SECTION 12, T. 26 N., R. 14 W., 2ND P.M.

HAUN TRUST



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IRROQUOIS	20	4
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287



GENERAL NOTES

See sheets 10, 11, 12 & 13 for Boring data.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions.

The Contractor shall drive one steel test pile in a permanent location at each abutment and at the Pier as directed by the Engineer, before ordering the remainder of piles.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Aggregate Surface Course, Ty. B shall be used to backfill behind each abutment as indicated by the Engineer. The additional quantity of CA-10 is included in the total quantity for Aggregate Surface Course, Ty. B. (See Special Provisions).

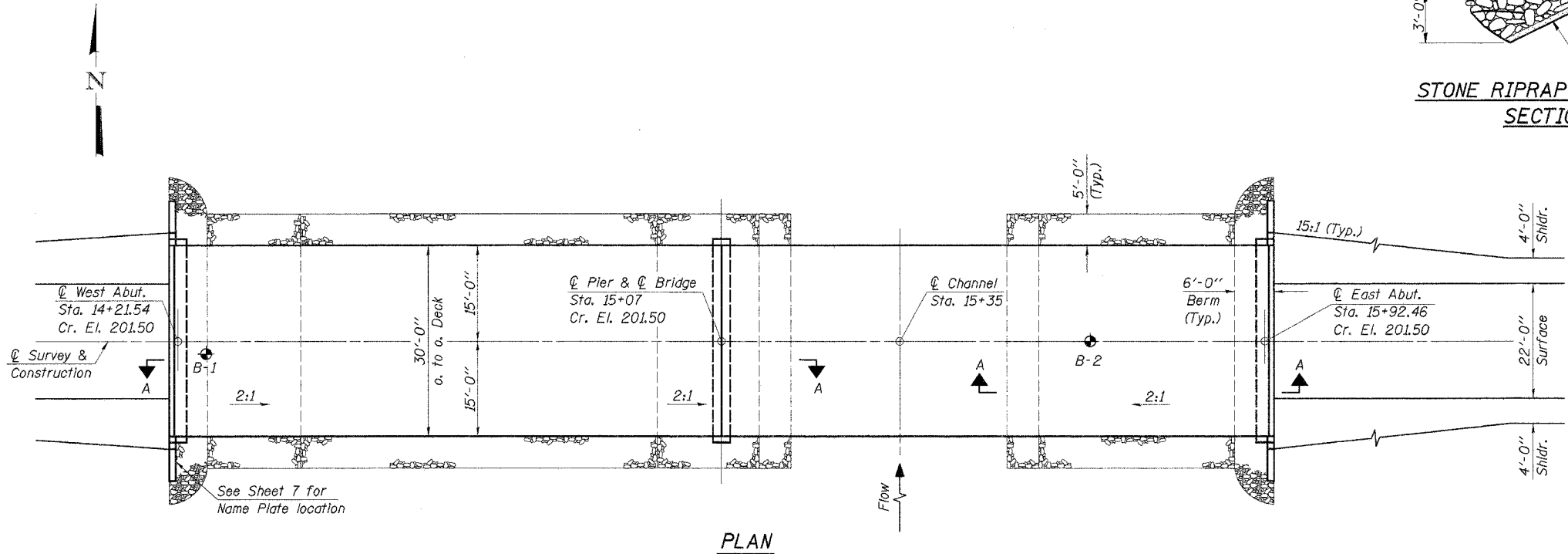
SPRING CREEK
BUILT 200_ BY
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
SEC. 01-11127-00-BR
F.A. PROJ. BROS-075(126)
STR. NO. 038-4056 LOADING HS20

LETTERING FOR NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	5160		5160
Concrete Structures	Cu. Yd.		72.4	72.4
Reinforcement Bars	Pound		6510	6510
Steel Railing, Type S1	Foot	344		344
Name Plates	Each		1	1
Metal Shell Piles 14"	Foot		1061	1061
Test Pile Metal Shells	Each		3	3
Stone Riprap, Class A4	Ton		475	475
Filter Fabric	Sq. Yd.		637	637
Aggregate Surface Course, Type B	Ton		111	111
Underwater Structure Excavation Protection-Location 1	Each		1	1



Note: IDNR - Office of Water Resources has issued Permit No. DS2005014 for construction of this project.

WATERWAY INFORMATION

DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

Drainage Area156.36 Sq. Mi.
Existing Opening (15 Yr.)957 Sq. Ft.
Required Opening (15 Yr.)1428 Sq. Ft.
Proposed Opening (15 Yr.)1428 Sq. Ft.
Design Discharge (15 Yr.)4167 C.F.S.
Created Head (15 Yr.)0.1 Ft.
100 Year Discharge6129 C.F.S.
100 Yr. Created Head0.1 Ft.

DESIGN STRESSES

f'_c = 5,000 p.s.i. (Prestressed Beams)
 f'_{cl} = 4,000 p.s.i. (Prestressed Beams)
 f_c = 1,400 p.s.i. (Concrete)
 f'_s = 270,000 p.s.i. (Prestressed Strands)
 f_{sl} = 201,960 p.s.i. (Prestressed Strands)
 f_s = 24,000 p.s.i. (Reinf. Bars -- Field Units)
 f_y = 60,000 p.s.i. (Reinf. Bars -- Field Units)
 n = 9 (Concrete)
LOADING HS20-44
Design Specifications: 2002 AASHTO
25#/Sq. Ft. Included in dead load for future wearing surface.

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges'."

3rd fl. Stone Jr. (11-11-06)
ILLINOIS STRUCTURAL NO. 2934 (Expires 11/30/08)



GENERAL PLAN & ELEVATION

SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

4440 ASH GROVE
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FRED J. STONE, JR., P.E.
12/08/06

JOB NO.: 46816
FILE: GPE.DGN
DATE: 12/08/06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127 -00-BR	IROQUOIS	20	6
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 Ft.-Lbs. at 0°F.

All other steel shapes and plates shall conform to the requirements of AASHTO M-270, Grade 36 except posts and angles shall conform to AASHTO M-270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

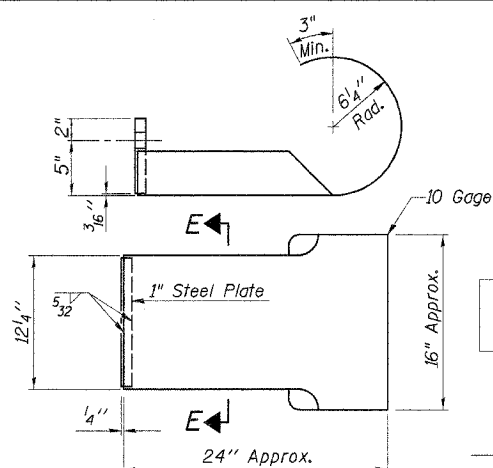
All posts, railing, rail splices, anchor devices, angles and spacers shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S1.

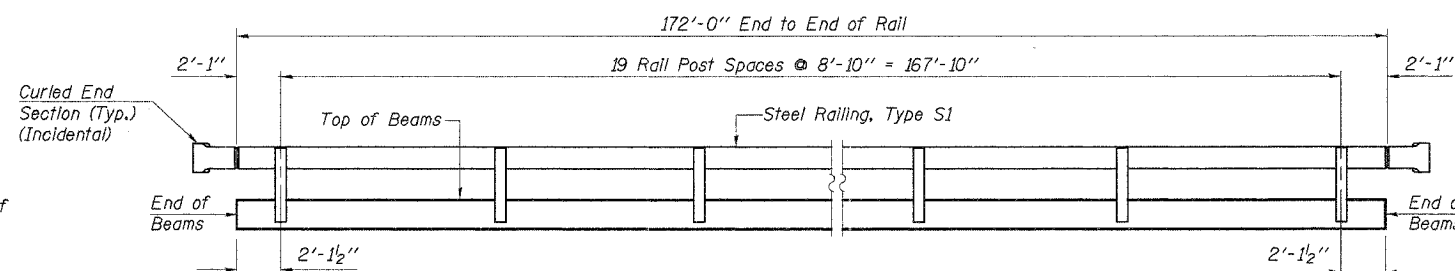
All field drilled holes shall be coated with an approved paint before erection.

The lower plate of the post spacer in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place $\frac{1}{8}$ " fabric bearing pad between the post spacer and concrete.

The $\frac{3}{4}$ " high strength bolts used to connect the 6 x 4 x $\frac{3}{4}$ " angles to the post shall be tightened in accordance with Article 505.04(f)(2) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional $\frac{1}{2}$ turn. The $\frac{5}{8}$ " cap screws in bottom of posts shall be tightened to a snug fit only.

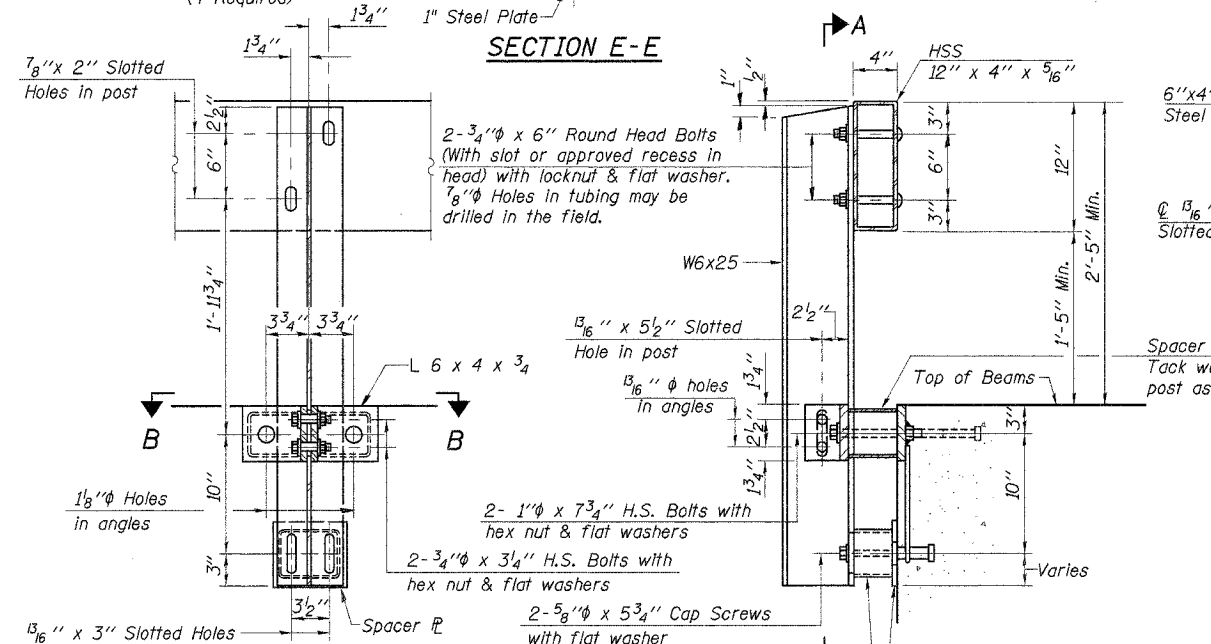


CURLED END SECTION DETAILS
(4 Required)

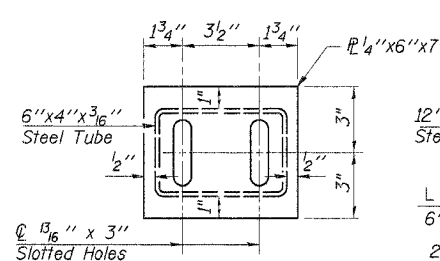


ELEVATION

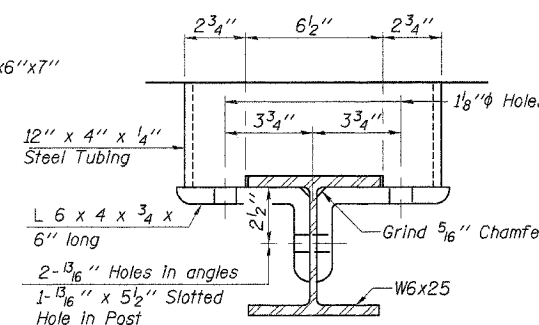
Showing Inside Face of Rail



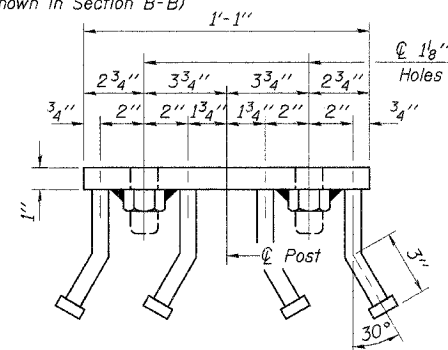
SECTION A-A



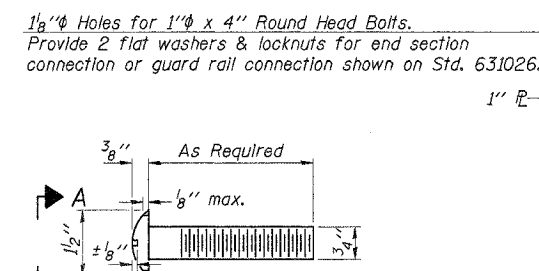
DETAIL "D"



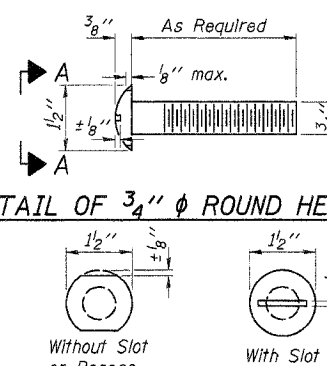
SECTION B-B



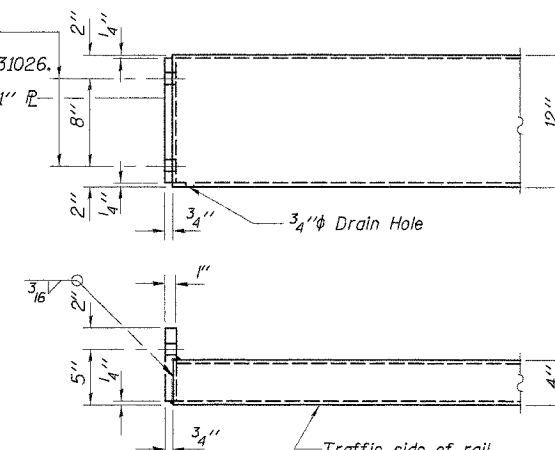
VIEW C-C



DETAIL OF $\frac{3}{4}$ " ϕ ROUND HEAD BOLT



VIEW A-A



END OF RAIL DETAILS

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	344

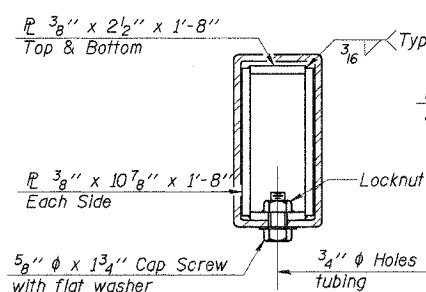
STEEL RAILING, TYPE S1

SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

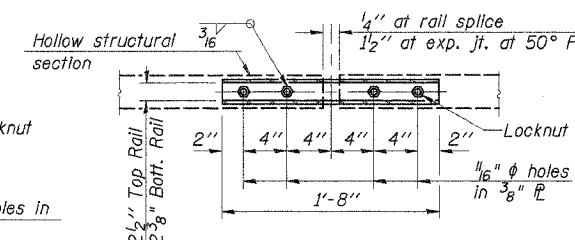
DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.

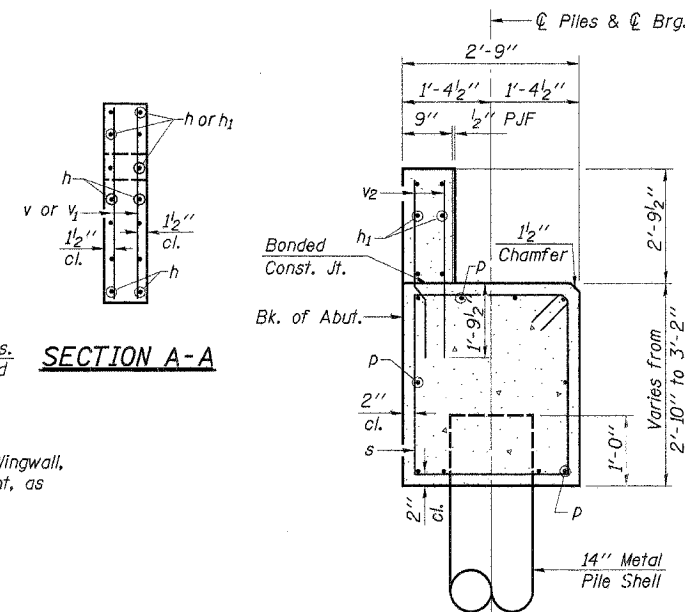


SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE P
TYPICAL

CONTRACT NO. 87287



SECTION A-A

SECTION THRU ABUT.

Bar	No.	Size	Length	Shape
h	56	#5	7'-6"	————
h ₁	12	#4	32'-0"	————
p	20	#7	31'-10"	————
s	60	#5	10'-9"	□
u	16	#6	12'-4"	□
v	40	#4	5'-3"	————
v ₁	24	#4	4'-3"	————
v ₂	120	#4	4'-5"	————
Concrete Structures			Cu. Yd.	28.6
Reinforcement Bars			Pound	3530
Name Plates			Each	1
Test Pile Metal Shells			Each	2
Metal Shell Piles 14"			Foot	536

See Sheet 9 for Pile Details

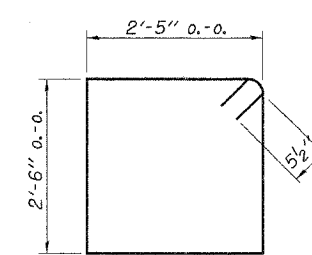
Type & Size.....	Metal Shell - 14 in. Dia. x 0.250 in. walls
No. Req'd. (2 Abuts.).....	*10
Nominal Required Bearing.....	330 kips
Allowable Resistance Available.....	110 kips
Estimated Length.....	66 ft. (West Abut.)
	68 ft. (East Abut.)

**Includes 1 Test Pile to be driven in a permanent location at each abutment.*

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated above.

A diagram showing a rectangular area. The horizontal dimension is labeled 5'-0" and the vertical dimension is labeled 2'-4" 0-0.

BAR U



BAR S

ABUTMENTS
SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

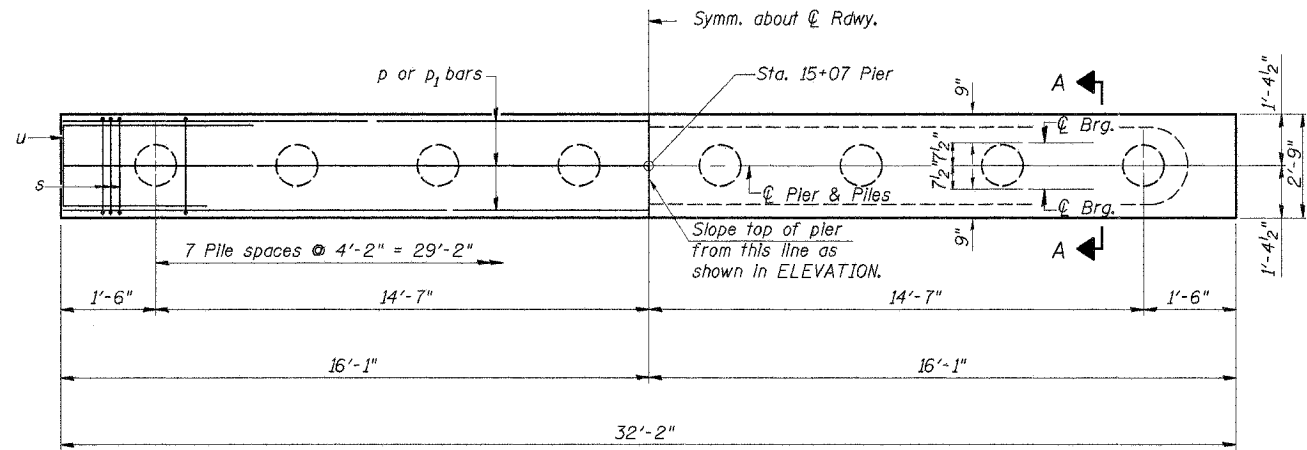
4440 ASH GROVE
SPRINGFIELD, IL. 62711
(217) 793-8600
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FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREETOWN, N. ROCKFORD, N. ROCKWELL, N. MONROE, VA GREENSBORO, N.

JOB NO.:	46816
FILE:	ABUT.DGN
DATE:	12/08/06

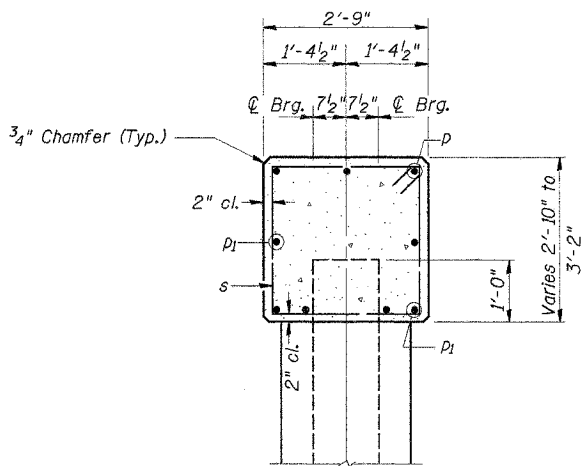
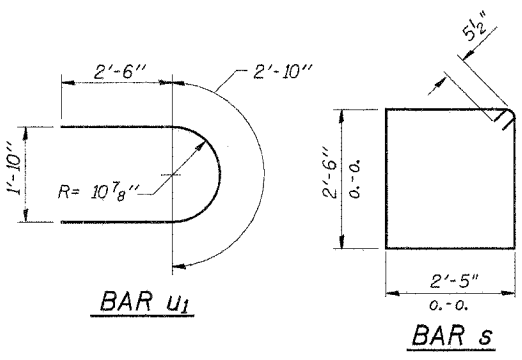
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	8
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

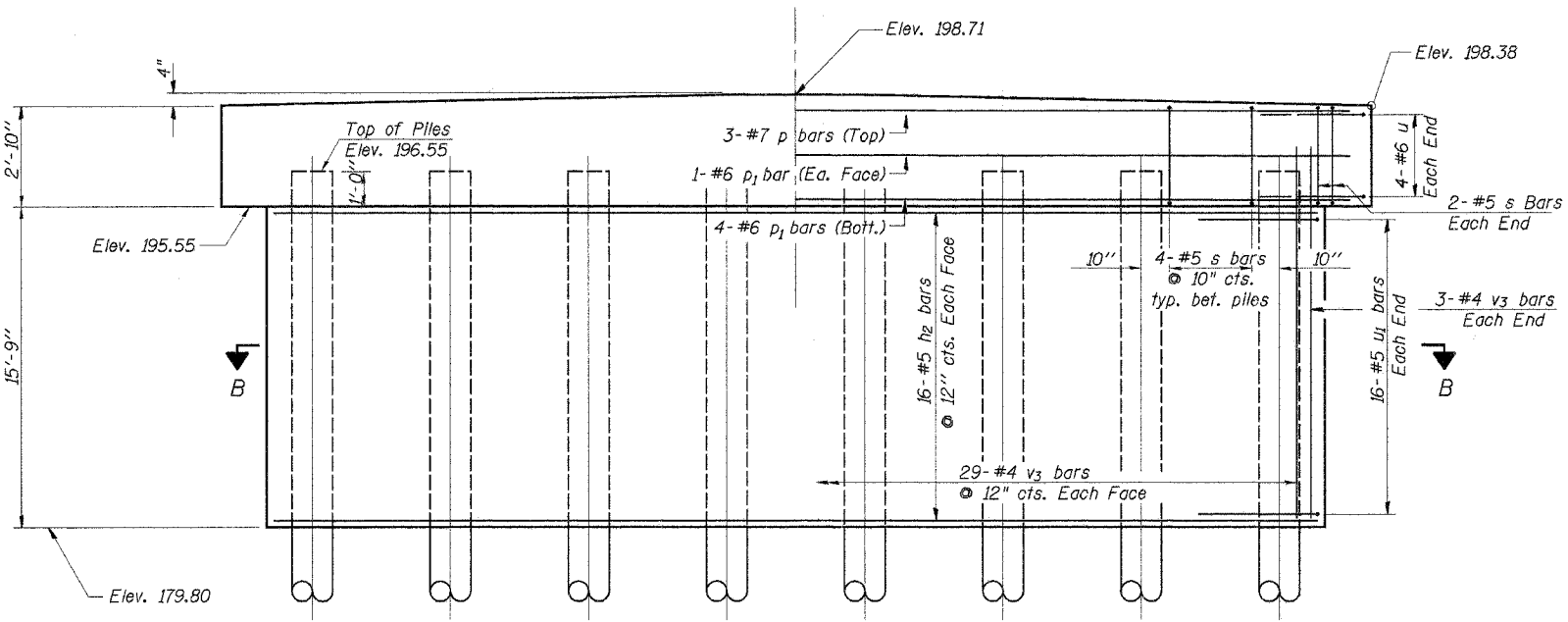


PLAN

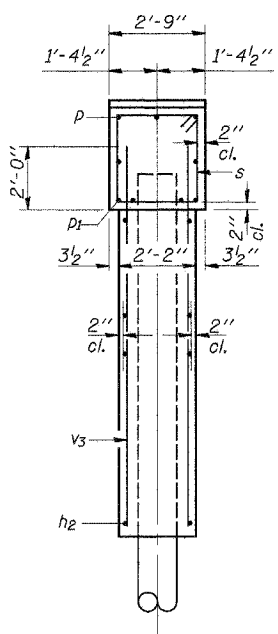
Note: All edges shall have standard 3/4" chamfer



SECTION A-A
(At Right Angles)



ELEVATION

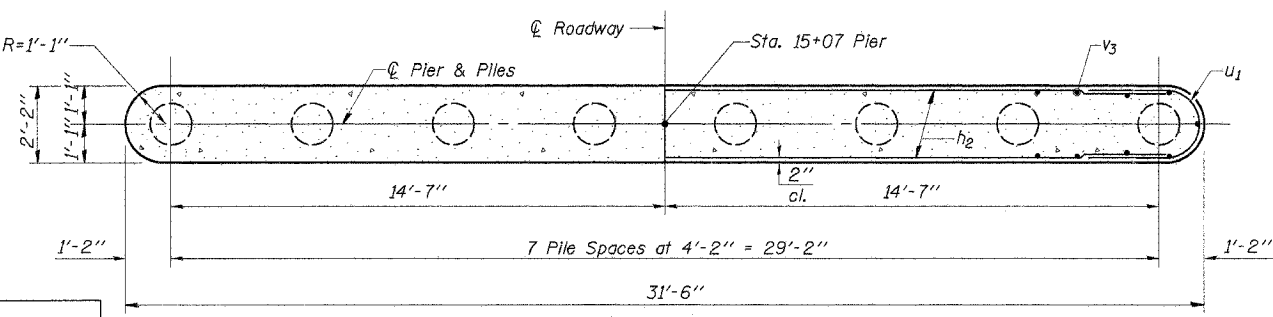


END VIEW

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h2	32	#5	29'-4"	—
p	3	#7	31'-10"	—
p1	6	#6	31'-10"	—
s	32	#5	10'-9"	□
u	8	#6	12'-4"	U
u1	32	#5	7'-10"	U
v3	64	#4	17'-7"	—
Concrete Structures			Cu. Yd.	43.8
Reinforcement Bars			Pound	2980
Metal Shell Piles 14"			Foot	525
Test Pile Metal Shells 14"			Each	1

See Sheet 9 for Pile Details



SECTION B-B

PILE DATA

Type & Size..... Metal Shell - 14 in. Dia. x 0.250 in. walls
No. Req'd..... 8
Nominal Required Bearing..... 390 kips
Allowable Resistance Available..... 130 kips
Estimated Length..... 75 ft.

*Includes 1 Test Pile to be driven in a permanent location at the pier.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated above.

DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

PIER

SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

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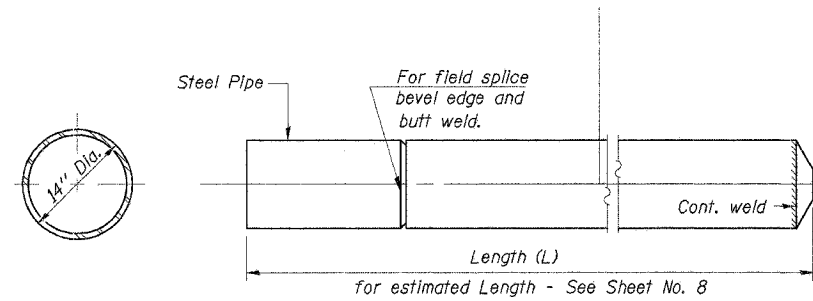
FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FEBRUARY 19, 2006
ROCKFORD, IL

JOB NO.: 46816
FILE: PIERS.DGN
DATE: 12/08/06

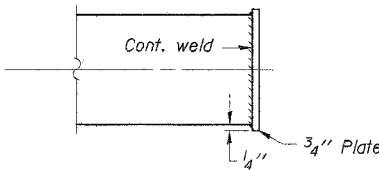
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	9
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

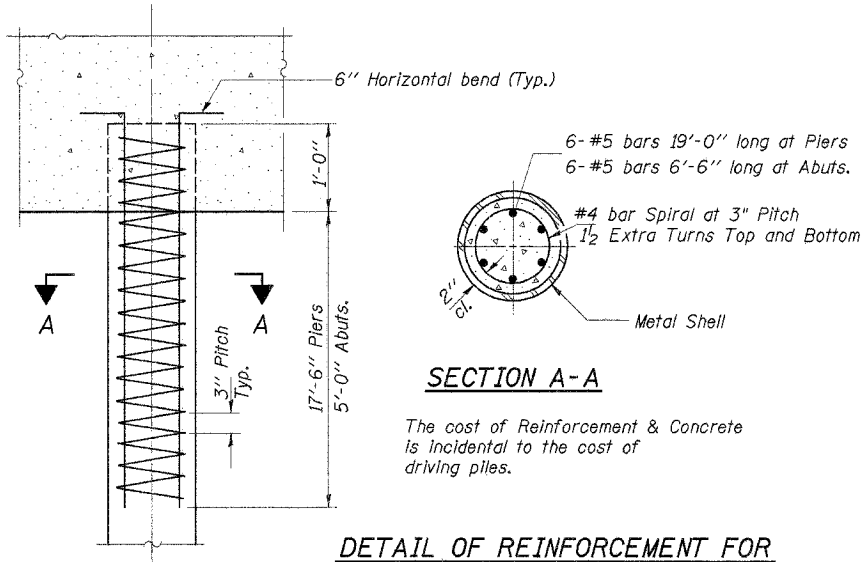
Notes: Driving and bearing ends of pipe shall be cut square.
The thickness of the shell shall be 0.250 inches with a tolerance of 5%. The shell shall be in accordance with ASTM A 252 Grade 3.



DETAIL OF CYLINDRICAL STEEL SHELL
FOR CAST IN PLACE CONCRETE PILES



OPTIONAL FLAT END



SECTION A-A

The cost of Reinforcement & Concrete is incidental to the cost of driving piles.

DETAIL OF REINFORCEMENT FOR
METAL SHELLS

DETAIL OF METAL SHELL FOR CAST IN PLACE CONCRETE PILES

DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

PILE DETAILS

SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

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SPRINGFIELD, IL 62711
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FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCKFORD, IL SPRINGFIELD, IL

JOB NO.: 46816
FILE: PILE.DGN
DATE: 12/08/06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	10
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

 Midwest Testing Services, Inc. 3705 Progress Blvd. Peru, IL 61354		BORING LOG Sheet 1 of 5 Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Ozyurt and Stone, Inc. Project Name: Section 01-11127-00-BR Project Site: Iroquois County Douglas Road District T.R. 189 Over Spring Creek		Boring No. B-1 Surface Elev. 100.20 Auger Depth 86.00 Start Date 10/11/03 Rotary Depth NA Finish Date 10/11/03	
Location: 2' RT of station 14 + 26		DRILLED BY: Randy Stefanski Dishless D-120	
DEPTH ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	REMARKS
100.20	Elev 100.5		
99.20		1	
98.20		2	
97.20		3	
96.20	Medium Brown And Gray Silty Clay (Fill)	4	
95.20		5	
94.20		6	
93.20		7	
92.20	Elev 100.0	8	
91.20		9	
90.20		10	
89.20		11	
88.20		12	
87.20		13	
86.20	Medium Brownish Gray Silty Clay	14	
85.20		15	
84.20		16	
83.20		17	
82.20		18	
81.20		19	
80.20		20	
Groundwater Data: Static water level after drilling - elevation 84.5 Comments: * Chiseled square Northeast wingwall assumed as 100.0			

 Midwest Testing Services, Inc. 3705 Progress Blvd. Peru, IL 61354		BORING LOG Sheet 2 of 5 Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Ozyurt and Stone, Inc. Project Name: Section 01-11127-00-BR Project Site: Iroquois County Douglas Road District T.R. 189 Over Spring Creek		Boring No. B-1 Surface Elev. 100.20 Auger Depth 86.00 Start Date 10/11/03 Rotary Depth NA Finish Date 10/11/03	
Location: 2' RT of station 14 + 26		DRILLED BY: Randy Stefanski Dishless D-120	
DEPTH ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	REMARKS
79.20			
78.20	Medium Brownish Gray Silty Clay	22	
77.20		23	
76.20	Elev 174.5	24	
75.20		25	
74.20		26	
73.20		27	
72.20		28	
71.20		29	
70.20		30	
69.20		31	
68.20	Very Stiff Gray Silty Clay Till	32	
67.20		33	
66.20		34	
65.20		35	
64.20		36	
63.20		37	
62.20		38	
61.20		39	
60.20		40	
59.20		41	
Groundwater Data: Static water level after drilling - elevation 84.5 Comments: * Chiseled square Northeast wingwall assumed as 100.0			

 Midwest Testing Services, Inc. 3705 Progress Blvd. Peru, IL 61354		BORING LOG Sheet 3 of 5 Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Ozyurt and Stone, Inc. Project Name: Section 01-11127-00-BR Project Site: Iroquois County Douglas Road District T.R. 189 Over Spring Creek		Boring No. B-1 Surface Elev. 100.20 Auger Depth 86.00 Start Date 10/11/03 Rotary Depth NA Finish Date 10/11/03	
Location: 2' RT of station 14 + 26		DRILLED BY: Randy Stefanski Dishless D-120	
DEPTH ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	REMARKS
58.20	Elev 156.5		
57.20		43	
56.20		44	
55.20		45	
54.20		46	
53.20		47	
52.20		48	
51.20		49	
50.20		50	
49.20		51	
48.20		52	
47.20	Very Stiff Gray Silty Clay Till	53	
46.20		54	
45.20		55	
44.20		56	
43.20		57	
42.20		58	
41.20		59	
40.20		60	
39.20		61	
38.20		62	
Groundwater Data: Static water level after drilling - elevation 84.5 Comments: * Chiseled square Northeast wingwall assumed as 100.0			

DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

SOIL BORING NO. 1
SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	 FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREDERICK E. BOHNSON, P.E. BOHNSON & ASSOCIATES, P.C. DATE: 10/06/06	JOB NO.: 46816 FILE: 0231BRNG1.DGN
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	11
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

BORING LOG
Sheet 4 of 5

Client: Ozyurt and Stone, Inc.
Project Name: Section 01-11127-00-BR
Project Site: Iroquois County Douglas Road District
T.R. 189 Over Spring Creek

Boring No. B-1
Surface Elev. 100.20
Auger Depth 85.00
Start Date 10/11/03
Rotary Depth NA
Finish Date 10/11/03

Location: 2' RT of station 14 + 26
0

DESCRIPTION OF MATERIALS

DEPTH ELEV.	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Qc (TSF)	N Value (Blows)	Moisture (%)	Dry Density (pcf)	REMARKS
37.20		25	SS	2.1	13	B	23	
36.20								
35.20	Very Stiff Gray Silty Clay Till	26	SS	2.2	13	B	23	
34.20								
33.20								
32.20		27	SS	---	65	---	---	
31.20								
30.20								
29.20		28	SS	---	61	---	12	
28.20								
27.20		29	SS	---	57	---	11	
26.20								
25.20	Very Dense Gray Silty Loam Till	30	SS	---	56	---	11	
24.20								
23.20								
22.20		31	SS	---	63	---	10	
21.20								
20.20								
19.20		32	SS	---	84	---	9	
18.20								
17.20		33	SS	---	71	---	9	

Groundwater Data: Static water level after drilling - elevation 84.3
Comments: * Chiseled square Northeast wingwall assumed as 100.0

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

BORING LOG
Sheet 5 of 5

Client: Ozyurt and Stone, Inc.
Project Name: Section 01-11127-00-BR
Project Site: Iroquois County Douglas Road District
T.R. 189 Over Spring Creek

Boring No. B-1
Surface Elev. 100.20
Auger Depth 85.00
Start Date 10/11/03
Rotary Depth NA
Finish Date 10/11/03

Location: 2' RT of station 14 + 26
0

DESCRIPTION OF MATERIALS

DEPTH ELEV.	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Qc (TSF)	N Value (Blows)	Moisture (%)	Dry Density (pcf)	REMARKS
16.20								
15.20								
14.20	Very Dense Gray Silty Loam Till Elev. 112.5	34	SS	---	70	---	10	
13.20								
12.20								
11.20								
10.20								
9.20								
8.20								
7.20								
6.20								
5.20								
4.20								
3.20								
2.20								
1.20								
0.20								
-0.80								
-1.80								
-2.80								
-3.80								

Groundwater Data: Static water level after drilling - elevation 84.3
Comments: * Chiseled square Northeast wingwall assumed as 100.0

DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

SOIL BORING NO. 1
SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS SPRINGFIELD, IL, ROCKFORD, IL, CHICAGO, IL, DECATUR, IL, GAITHERSBURG, MD	JOB NO.: 46846 FILE: 0231BRNG1-2.DGN DATE: 10/06/06
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	12
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

BORING LOG
Sheet 1 of 5

Client: Ozyurt and Stone, Inc.
Project Name: Section 01-11127-00-BR
Project Site: Iroquois County Douglas Road District
T.R. 189 Over Spring Creek

Boring No. B-2
Surface Elev. 100.40
Auger Depth 86.00
Start Date 10/11/03
Rotary Depth NA
Finish Date 10/11/03

Location: Centerline station 15 + 65

Drilled By: Randy Sedwinski
Diedrich D-120

DEPTH (FEET)	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Q _u (TSF)	N Value (Blows)	Blow / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
100.40									
99.40									
98.40									
97.40									
96.40									
95.40	Medium Brown And Gray Silty Clay (Fill)	1	SS	0.9	8	B	22		
94.40		2	SS	0.7	6	B	24		
93.40		3	SS	0.5	6	B	25		
92.40		4	SS	0.8	8	B	23		
91.40		5	SS	0.6	7	B	24		
90.40		6	SS	1.2	10	B	23		
89.40		7	SS	1.0	10	B	21		
88.40		8	SS	1.4	11	B	21		

Groundwater Data: Static water level after drilling - elevation 84.5
Comments: * Chiseled square Northeast wingwall assumed as 100.0

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

BORING LOG
Sheet 2 of 5

Client: Ozyurt and Stone, Inc.
Project Name: Section 01-11127-00-BR
Project Site: Iroquois County Douglas Road District
T.R. 189 Over Spring Creek

Boring No. B-2
Surface Elev. 100.40
Auger Depth 86.00
Start Date 10/11/03
Rotary Depth NA
Finish Date 10/11/03

Location: Centerline station 15 + 65

Drilled By: Randy Sedwinski
Diedrich D-120

DEPTH (FEET)	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Q _u (TSF)	N Value (Blows)	Blow / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
79.40									
78.40									
77.40		9	SS	2.3	12	B	23		
76.40		10	SS	2.5	13	B	22		
75.40		11	SS	2.6	13	B	23		
74.40		12	SS	2.7	14	B	21		
73.40		13	SS	2.0	12	B	24		
72.40		14	SS	2.5	13	B	22		
71.40		15	SS	2.0	13	B	23		
70.40		16	SS	2.2	13	B	23		

Groundwater Data: Static water level after drilling - elevation 84.5
Comments: * Chiseled square Northeast wingwall assumed as 100.0

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

BORING LOG
Sheet 3 of 5

Client: Ozyurt and Stone, Inc.
Project Name: Section 01-11127-00-BR
Project Site: Iroquois County Douglas Road District
T.R. 189 Over Spring Creek

Boring No. B-2
Surface Elev. 100.40
Auger Depth 86.00
Start Date 10/11/03
Rotary Depth NA
Finish Date 10/11/03

Location: Centerline station 15 + 65

Drilled By: Randy Sedwinski
Diedrich D-120

DEPTH (FEET)	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Q _u (TSF)	N Value (Blows)	Blow / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
58.40									
57.40		17	SS	2.2	13	B	22		
56.40		18	SS	2.4	14	B	21		
55.40		19	SS	2.6	14	B	20		
54.40		20	SS	2.0	12	B	23		
53.40		21	SS	2.4	13	B	21		
52.40		22	SS	2.1	13	B	24		
51.40		23	SS	2.1	12	B	23		
50.40		24	SS	1.9	11	B	23		
49.40		25	SS	1.7	10	B	24		

Groundwater Data: Static water level after drilling - elevation 84.5
Comments: * Chiseled square Northeast wingwall assumed as 100.0

DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

SOIL BORING NO. 2
SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

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SPRINGFIELD, IL 62711
(217) 793-8600
www.fehr-graham.com

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEDOM, IL 60001, ROCKFORD, IL 60009, SPRINGFIELD, IL 62711

JOB NO.: 46816
FILE: 0231BRNG2.DGN
DATE: 10/06/06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	13
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

 Midwest Testing Services, Inc. 3705 Progress Blvd. Peru, IL 61354		BORING LOG Sheet 4 of 5		Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Ozpart and Stone Inc. Project Name Section 01-11127-00-BR Project Site: Iroquois County Douglas Road District T.R. 189 Over Spring Creek		Boring No. B-2 Surface Elev. 100.40 Auger Depth 86.00 Start Date 10/11/03		Rotary Depth NA Finish Date 10/11/03	
Location: Centerline station 15 + 65 0		SAMPLES		DRILLED BY Randy Safanski Diedrich D-120	
DESCRIPTION OF MATERIALS		Log		REMARKS	
37.40		25 SS 1.7 10 24			
36.40		26 SS 1.5 10 24			
35.40		27 SS 2.0 12 22			
34.40		28 SS --- 52 --- 12			
33.40		29 SS --- 55 --- 11			
32.40		30 SS --- 67 --- 10			
31.40		31 SS --- 51 --- 12			
30.40		32 SS --- 75 --- 9			
29.40		33 SS --- 64 --- 10			
28.40					
27.40					
26.40					
25.40					
24.40					
23.40					
22.40					
21.40					
20.40					
19.40					
18.40					
17.40					

Groundwater Data: Static water level after drilling - elevation 84.5
Comments: * Chiseled square Northeast wingwall assumed as 100.0

 Midwest Testing Services, Inc. 3705 Progress Blvd. Peru, IL 61354		BORING LOG Sheet 5 of 5		Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Ozpart and Stone Inc. Project Name Section 01-11127-00-BR Project Site: Iroquois County Douglas Road District T.R. 189 Over Spring Creek		Boring No. B-2 Surface Elev. 100.40 Auger Depth 86.00 Start Date 10/11/03		Rotary Depth NA Finish Date 10/11/03	
Location: Centerline station 15 + 65 0		SAMPLES		DRILLED BY Randy Safanski Diedrich D-120	
DESCRIPTION OF MATERIALS		Log		REMARKS	
16.40		34 SS --- 85 --- 9			
15.40					
14.40					
13.40					
12.40					
11.40					
10.40					
9.40					
8.40					
7.40					
6.40					
5.40					
4.40					
3.40					
2.40					
1.40					
0.40					
-0.60					
-1.60					
-2.60					
-3.60					

Groundwater Data: Static water level after drilling - elevation 84.5
Comments: * Chiseled square Northeast wingwall assumed as 100.0

DESIGNED	SFM
CHECKED	FJS
DRAWN	SAP
CHECKED	SFM

SOIL BORING NO. 2
SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07

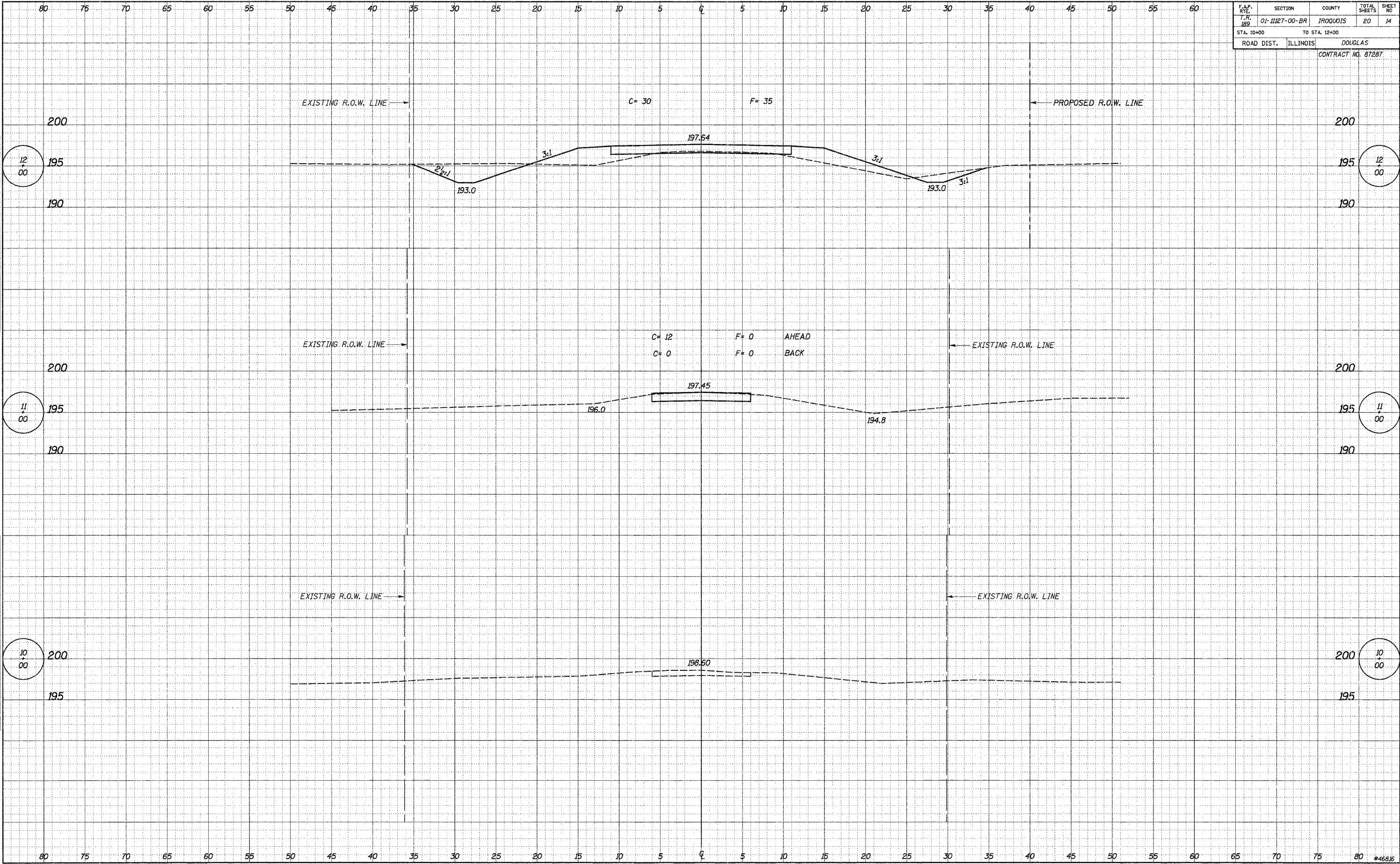
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FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCKFORD, IL SPRINGFIELD, IL

JOB NO.: 46816
FILE: 0231BRNG2-2.DGN
DATE: 10/06/06

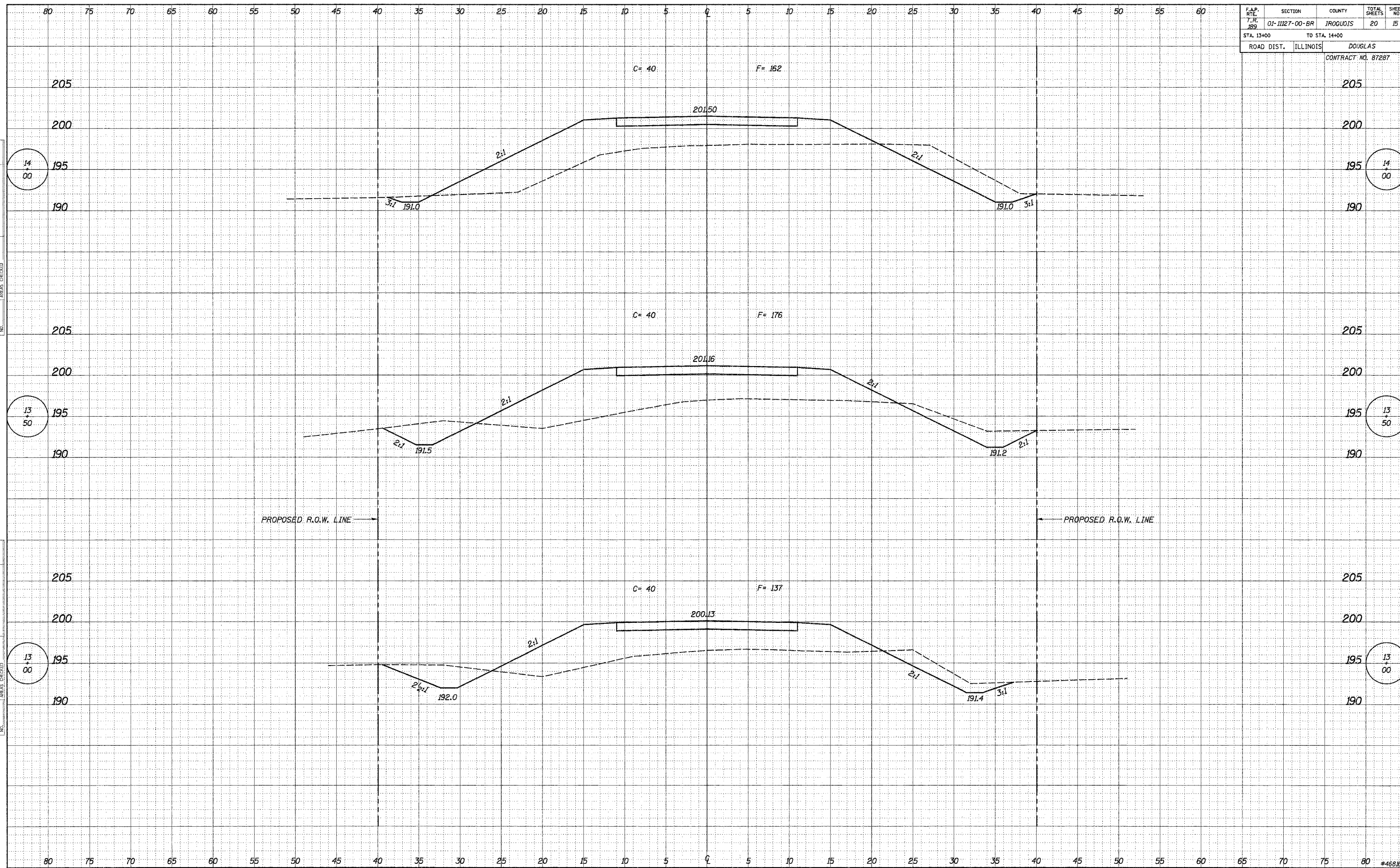
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NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	REVISION
	DATE
	AREA CHECKED

DATE	BY
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	REVISION
	DATE
	AREA CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11127-00-BR	01-11127-00-BR	ILLINOIS	20	14
STA. 10+00	TO STA. 12+00	DOUGLAS		
ROAD DIST.	ILLINOIS	DOUGLAS		
		CONTRACT NO. 87287		

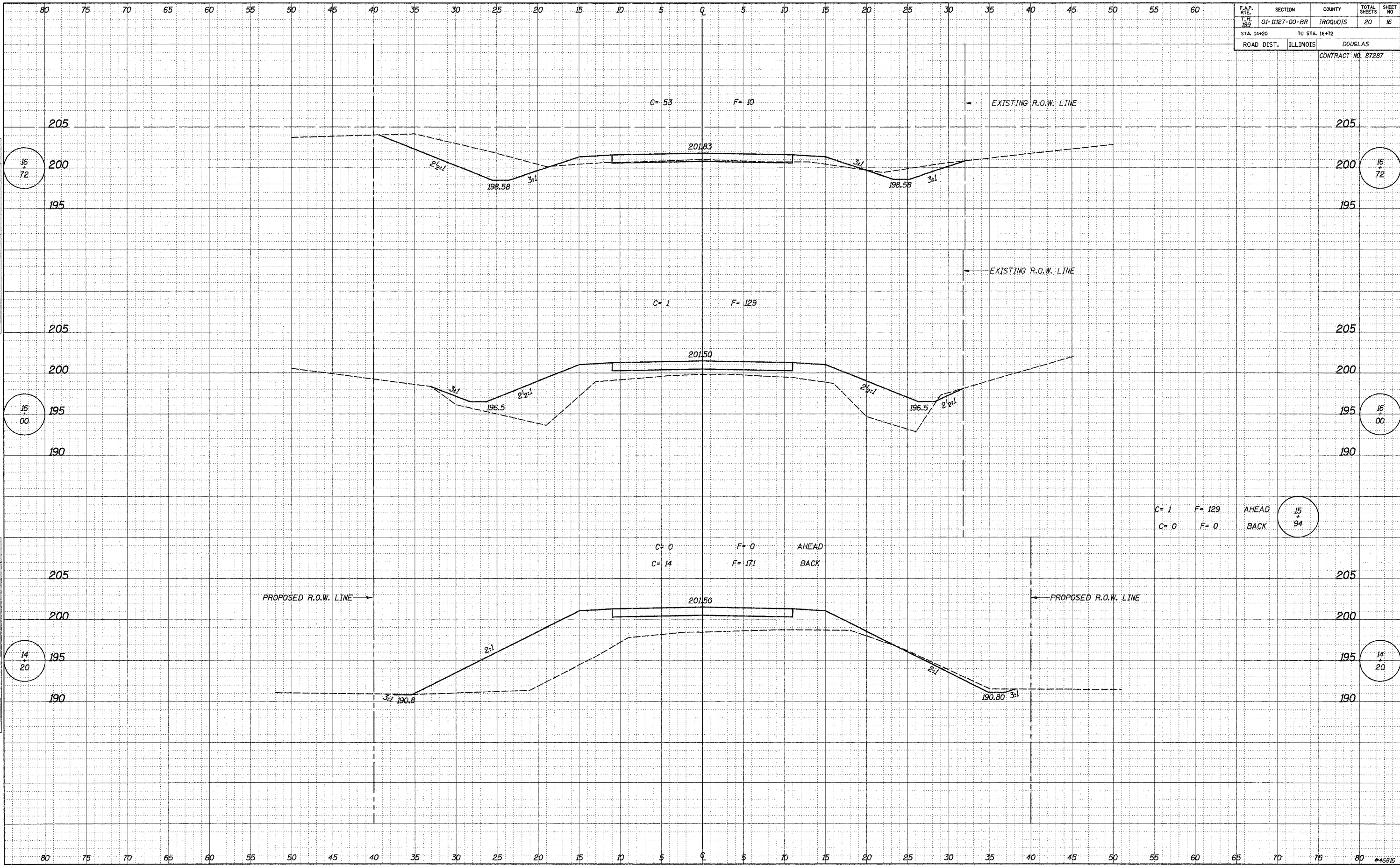
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IRROQUOIS	20	15
STA. 13+00		TO STA. 14+00		
ROAD DIST.		ILLINOIS	DOUGLAS	
		CONTRACT NO. 87287		



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

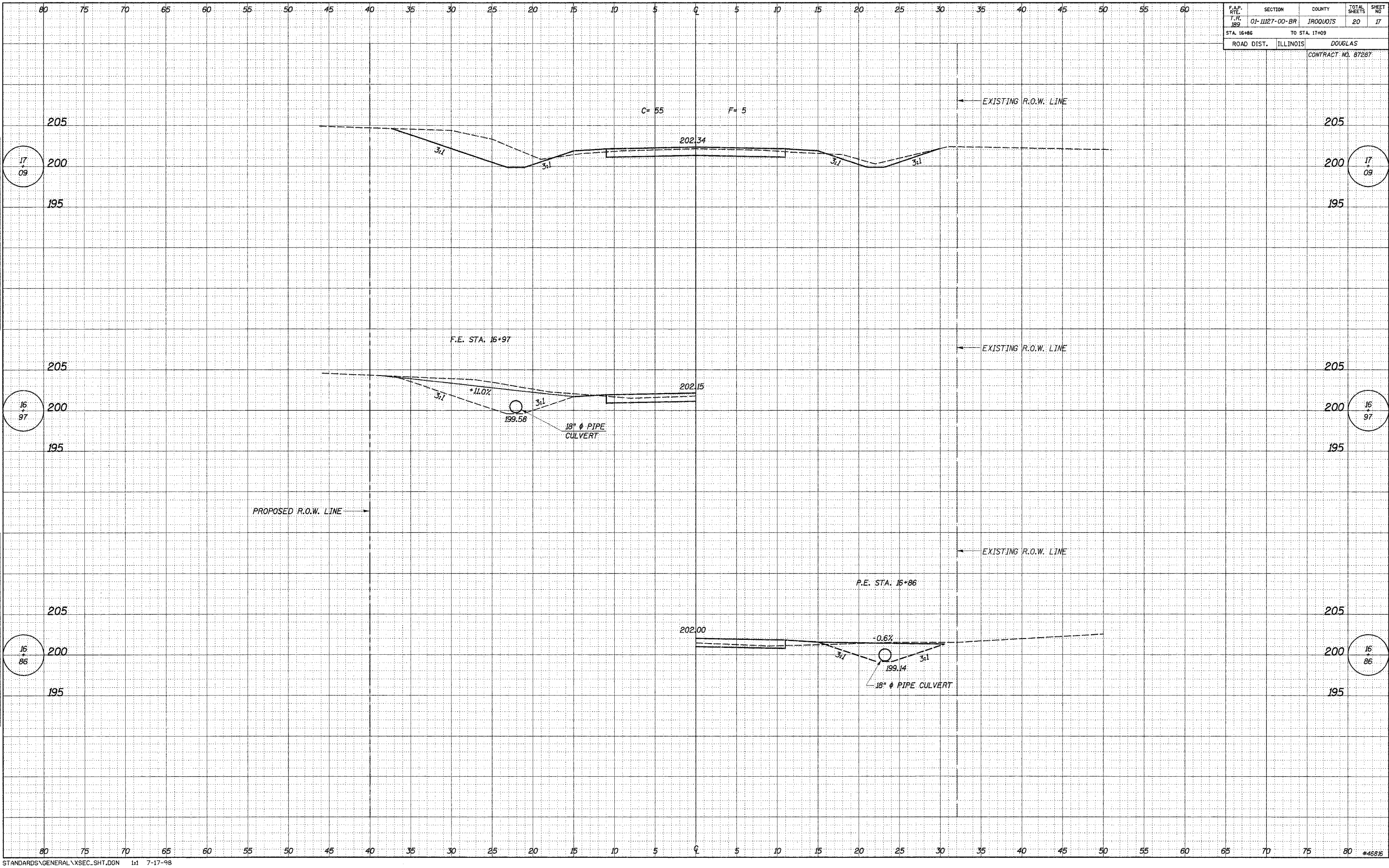
DATE	BY	NO.
ORIGINAL	SURVEYED	PLOTTED
SHEET	NOTE BOOK	TEMPLATE
		AREAS CHECKED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
189	01-1127-00-BR	IROQUOIS	20	16
STA. 14+20	TO STA. 16+72	DOUGLAS		
ROAD DIST.	ILLINOIS	CONTRACT NO. 87287		



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

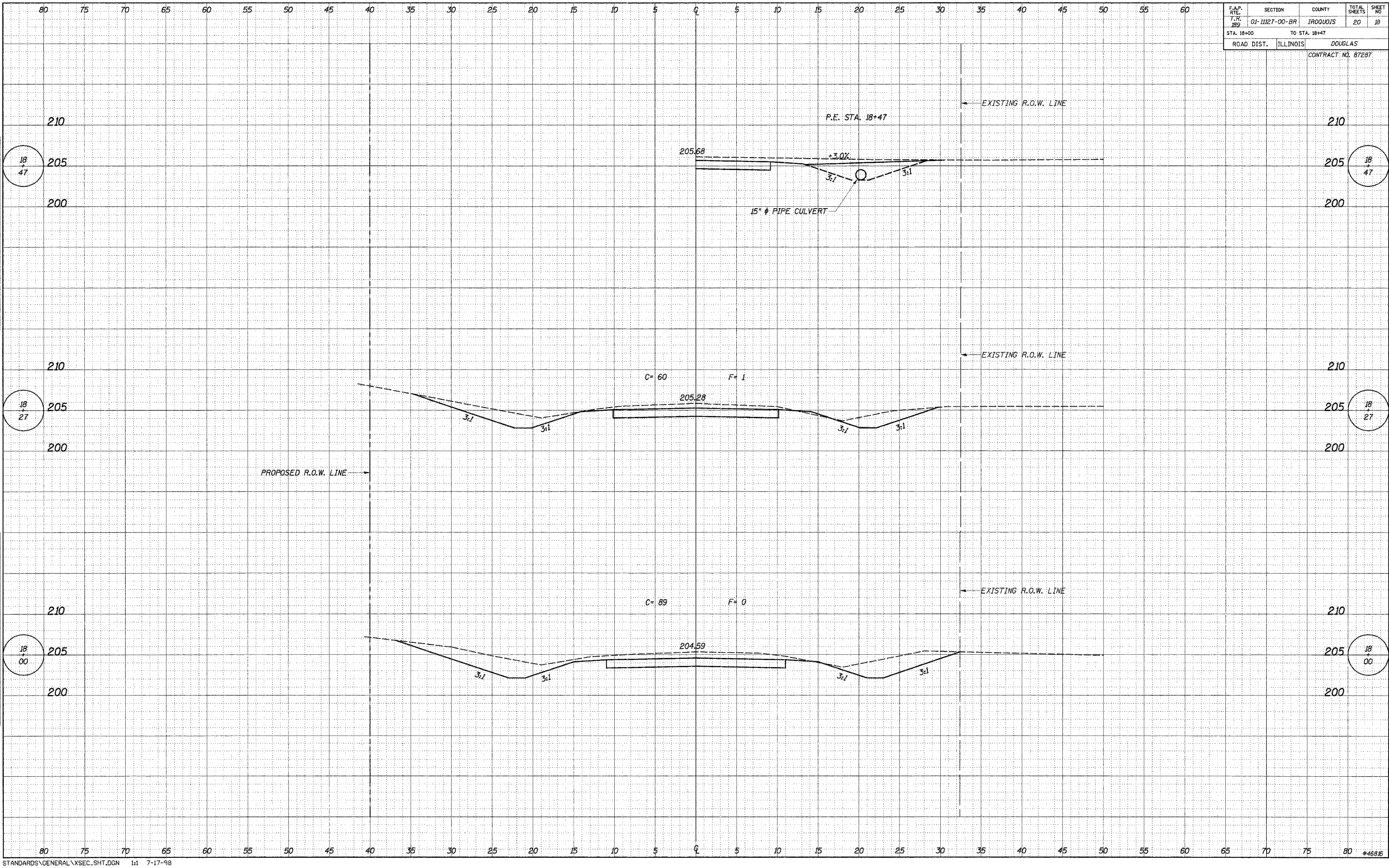
DATE	BY
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED



P.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171 850	01-11127-00-BR	JROQUOTS	20	17
STA. 16+86 TO STA. 17+03				
ROAD DIST. ILLINOIS DOUGLAS				
CONTRACT NO. 87287				

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

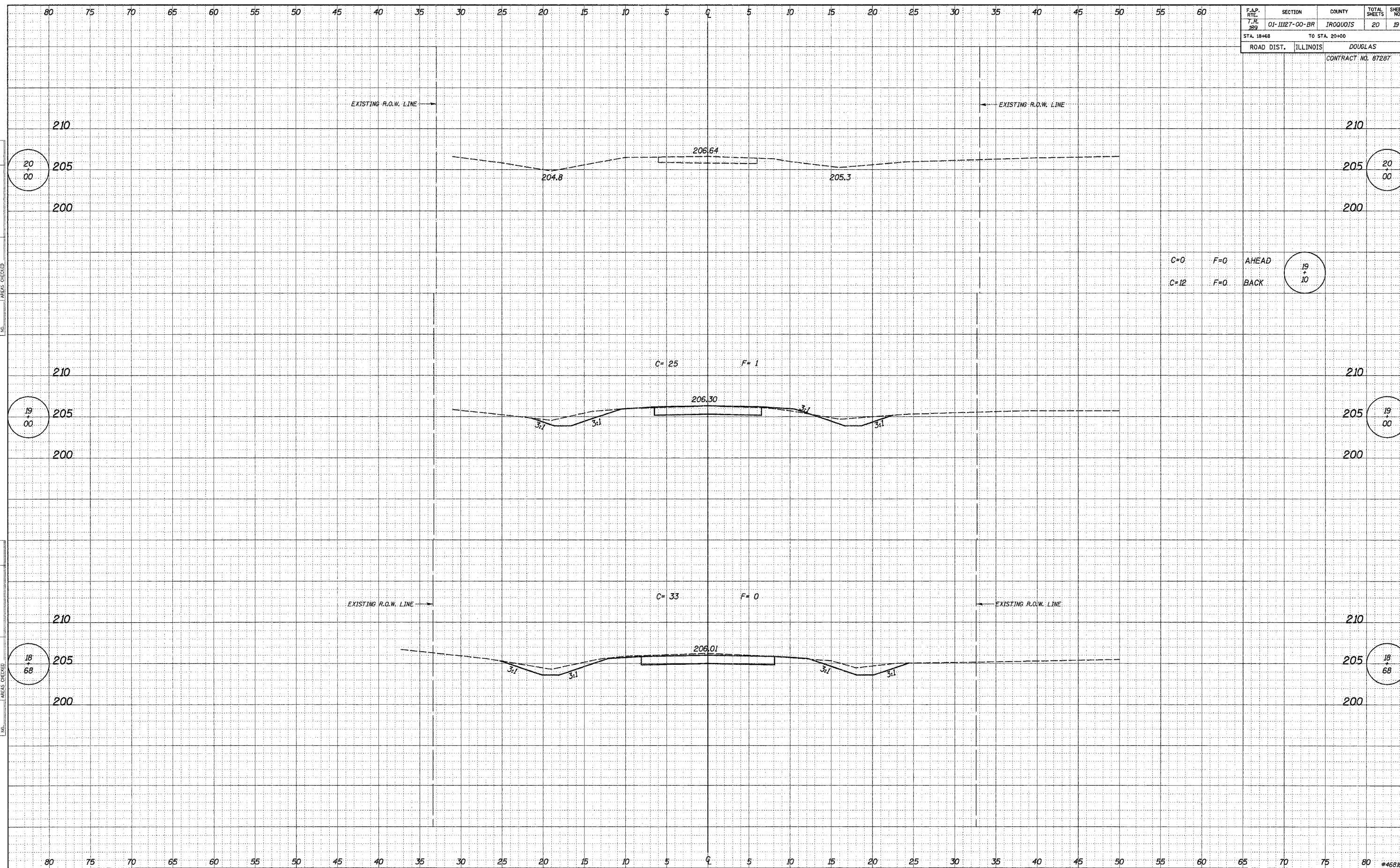
DATE	BY
NO.	NO.
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED



F.A.P. T.R. 189	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
01-11127-00-BR		IROQUOIS	20	18
STA. 18+00		TO STA. 18+47		
ROAD DIST.		ILLINOIS DOUGLAS		
		CONTRACT NO. 87287		

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK			
AREAS CHECKED			
IN,			

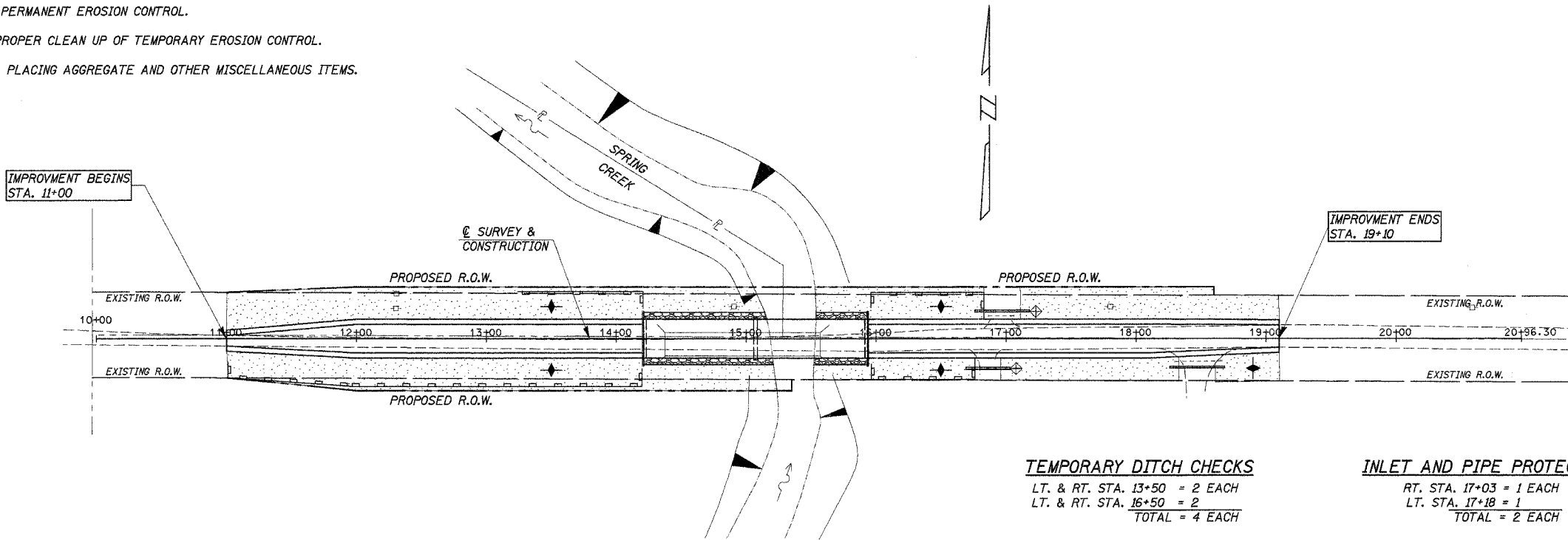


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 189	01-11127-00-BR	IROQUOIS	20	20
ROAD DIST.	ILLINOIS	DOUGLAS		

CONTRACT NO. 87287

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. PLACEMENT OF PERIMETER EROSION CONTROL FENCE PRIOR TO THE COMMENCEMENT OF ANY ROAD OR BRIDGE WORK. SEE STD. 280001.
2. REMOVAL OF EXISTING STRUCTURE.
3. CONSTRUCTION OF THE REPLACEMENT STRUCTURE.
4. PLACEMENT OF ROADWAY EMBANKMENT TO RAISE THE ROADWAY TO THE PROPOSED GRADE.
5. DRAINAGE STRUCTURES, INCLUDING DITCHES, WILL BE INSTALLED BEFORE AND/OR DURING THE COMPLETION OF THE EMBANKMENT.
6. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL.
7. PLACEMENT OF PERMANENT EROSION CONTROL.
8. REMOVAL AND PROPER CLEAN UP OF TEMPORARY EROSION CONTROL.
9. FINAL GRADING, PLACING AGGREGATE AND OTHER MISCELLANEOUS ITEMS.



TEMPORARY DITCH CHECKS
LT. & RT. STA. 13+50 = 2 EACH
LT. & RT. STA. 16+50 = 2
TOTAL = 4 EACH

INLET AND PIPE PROTECTION
RT. STA. 17+03 = 1 EACH
LT. STA. 17+18 = 1
TOTAL = 2 EACH

TEMPORARY EROSION CONTROL:

PERIMETER EROSION BARRIER
INLET AND PIPE PROTECTION
TEMPORARY DITCH CHECK

PERMANENT EROSION CONTROL:

SEEDING CLASS 2, FERTILIZERS, & MULCH, METHOD 2
STONE RIPRAP, CLASS A4

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
TEMPORARY EROSION CONTROL SEEDINGS	POUND	180
TEMPORARY DITCH CHECKS	EACH	4
PERIMETER EROSION BARRIER	FOOT	670
INLET AND PIPE PROTECTION	EACH	2

THE ABOVE QUANTITIES ARE ESTIMATES ONLY. ACTUAL QUANTITIES FOR EROSION CONTROL WILL BE DETERMINED BY THE ENGINEER IN THE FIELD AND THERE WILL BE NO ADJUSTMENT IN ANY PRICE DUE TO A CHANGE IN PLAN QUANTITY.

EROSION CONTROL PLAN

SECTION 01-11127-00-BR
DOUGLAS ROAD DISTRICT
IROQUOIS COUNTY
STA. 15+07