

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

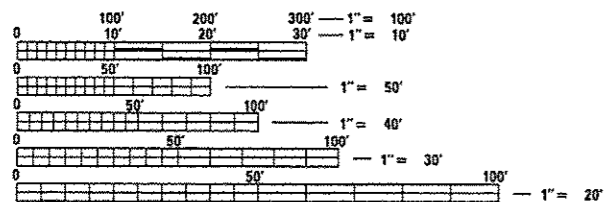
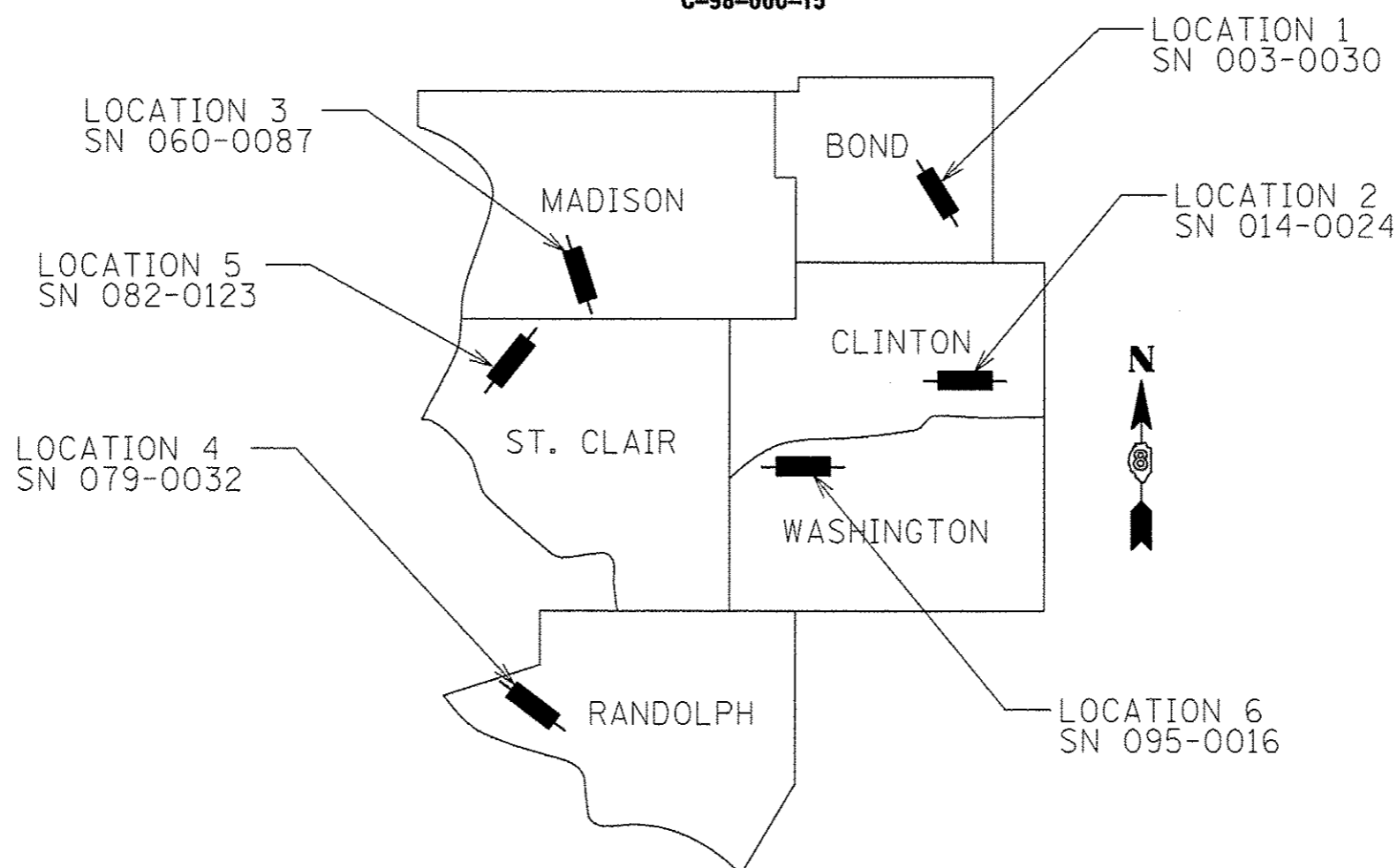
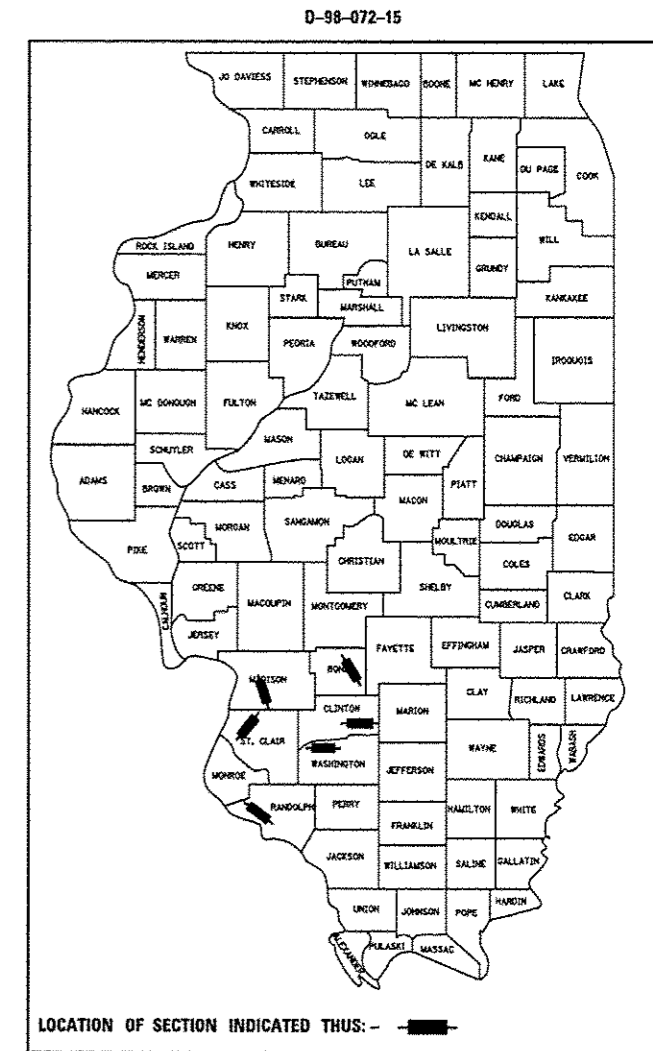
VARIOUS ROUTE
SECTION DIST 8 SCOUR MITIGATION 2016-1

SCOUR MITIGATION
VARIOUS COUNTY

C-98-060-15

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	DIST 8 MITIGATION 2016-1	VARIOUS	10	1
ILLINOIS			CONTRACT NO. 76H87	

FOR INDEX OF SHEETS, SEE SHEET NO. 2



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: HERVE' GELIN (618) 346-3179
PROJECT MANAGER: BILLIE OWEN (618) 346-3329

GROSS LENGTH = 734.10 FT. = 0.139 MILE
NET LENGTH = 734.10 FT. = 0.139 MILE

CONTRACT NO. 76H87

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Feb 5 20 16

Jeffrey R. K...
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

March 13 20 16
Naureen M. A. O... P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

March 13 20 16
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, STANDARDS, GENERAL NOTES, COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4 SCHEDULE
- 5-10 LOCATION MAPS
- 11-16 STRUCTURE PLANS

LIST OF IDOT STANDARDS

- 000001-06
- 001006
- 701001-02
- 701006-05
- 701201-04
- 701301-04
- 701901-05

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

LOCATION 1 - SN 003-0030
ATT ILLINOIS
DEPT OF CENTRAL MANAGEMENT SERVICES
CITY OF GREENVILLE
AMERENIL

LOCATION 2 - SN 014-0024
ATT ILLINOIS
HOFFMAN RURAL WATER DISTRICT
WINDSTREAM KDL, INC.

LOCATION 3 - SN 060-0087
ATT ILLINOIS
CHARTER COMMUNICATIONS
VILLAGE OF GLEN CARBON

LOCATION 4 - SN 079-0032
NEW WAVE COMMUNICATIONS
HARRISONVILLE TELEPHONE CO.
AMERENIL

IL CONSOLIDATED TELEPHONE

VILLAGE OF PRAIRIE DUROCHER

IL-AMERICAN WATER-GRANITE CITY
AMERENIL
WINDSTREAM KDL, INC.
SOUTHWESTERN ELECTRIC COOPERATIVE

LOCATION 5 - SN 082-0123
ATT ILLINOIS
CHARTER COMMUNICATIONS
VILLAGE OF CASEYVILLE
AMERENIL
WINDSTREAM KDL, INC.
CENTURYLINK, INC.

LOCATION 6 - SN095-0016
CLEARWAVE COMMUNICATIONS
CHARTER COMMUNICATIONS
FRONTIER COMMUNICATIONS, INC.
AMERENIL
VILLAGE OF OKAWVILLE

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OF 811 AND ARE INDICATED BY*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3. ONLY SHORT TERM LANE CLOSURES SHALL BE ALLOWED FOR MOVEMENT OF EQUIPMENT AND AS DIRECTED BY THE ENGINEER.
- 4. FLAGGERS SHALL BE PRESENT DURING LANE CLOSURES AND NO ADDITIONAL COMPENSATION BE ALLOWED.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF ALL 404 PERMIT CONDITIONS REGARDING EROSION CONTROL MEASURES AN BE IN COMPLIANCE WITH THEM.
- 6. IN ORDER TO AVOID EROSION OF THE EXCAVATED AREAS, THE CONTRACTOR SHALL HAVE RIPRAP PLACED WITHIN 24 HOURS OF EXCAVATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER DUE TO ADVERSE WEATHER CONDITIONS.

- 7. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E., IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A ONE (1) GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. "TRUCKS ENTERING AND LEAVING" SIGNS SHALL BE REQUIRED AND PLACED ACCORDING TO THE ENGINEER'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ACCESS TO THE WORK AREA. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 10. ANY AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THIS WILL INCLUDE TEMPORARY AND PERMANENT SEEDING.
- 11. COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING SHALL BE DONE TO LOCATE HIGHWAY LIGHTING/PUMP STATIONS/INTELLIGENT TRANSPORTATION SYSTEM FACILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
- 12. THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITIES, WOMEN, AND DISADVANTAGE INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGE INDIVIDUALS IN HIGHWAY CONSTRUCTION - RELATED SKILLS, E.G., MATH FOR TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE, FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE, ENTRY -LEVEL CONSTRUCTION WORKERS. PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 13. THE ADT FOR THIS PROJECT IS AS FOLLOWS:

LOCATION 1 2015 ADT = 8400 (ACTUAL) 2016 ADT = 8500 (ESTIMATED) SU = 4.2% MU = 4.8%	LOCATION 2 2015 ADT = 3350 (ACTUAL) 2016 ADT = 3400 (ESTIMATED) SU = 5.7% MU = 4.5%
LOCATION 3 2015 ADT = 1350 (ACTUAL) 2016 ADT = 1400 (ESTIMATED) SU = 10.0% MU = 4.4%	LOCATION 4 2015 ADT = 9200 (ACTUAL) 2016 ADT = 9300 (ESTIMATED) SU = 9.0% MU = 3.3%
LOCATION 5 2015 ADT = 9600 (ACTUAL) 2016 ADT = 9700 (ESTIMATED) SU = 4.2% MU = 1.3%	LOCATION 6 2015 ADT = 3750 (ACTUAL) 2016 ADT = 3800 (ESTIMATED) SU = 4.3% MU = 5.7%

COMMITMENTS

NO COMMITMENTS

FILE NAME = USER NAME = DESIGNED - REVISED - DRAWN - CHECKED - PLOT SCALE = 1/8" = 1' / 31.25' DATE = 2/4/2016				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		INDEX OF SHEETS, LIST OF IDOT STANDARDS GENERAL NOTES, COMMITMENTS,				F.A. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO. VAR. VARIOUS 15 2	
SCALE: NA SHEET 1 OF 1 SHEETS STA. TO STA.						*DIST 8 SCOUR MITIGATION 2016-1 ILLINOIS FED. AID PROJECT CONTRACT NO. 76HB7					

QUANTITY SCHEDULE

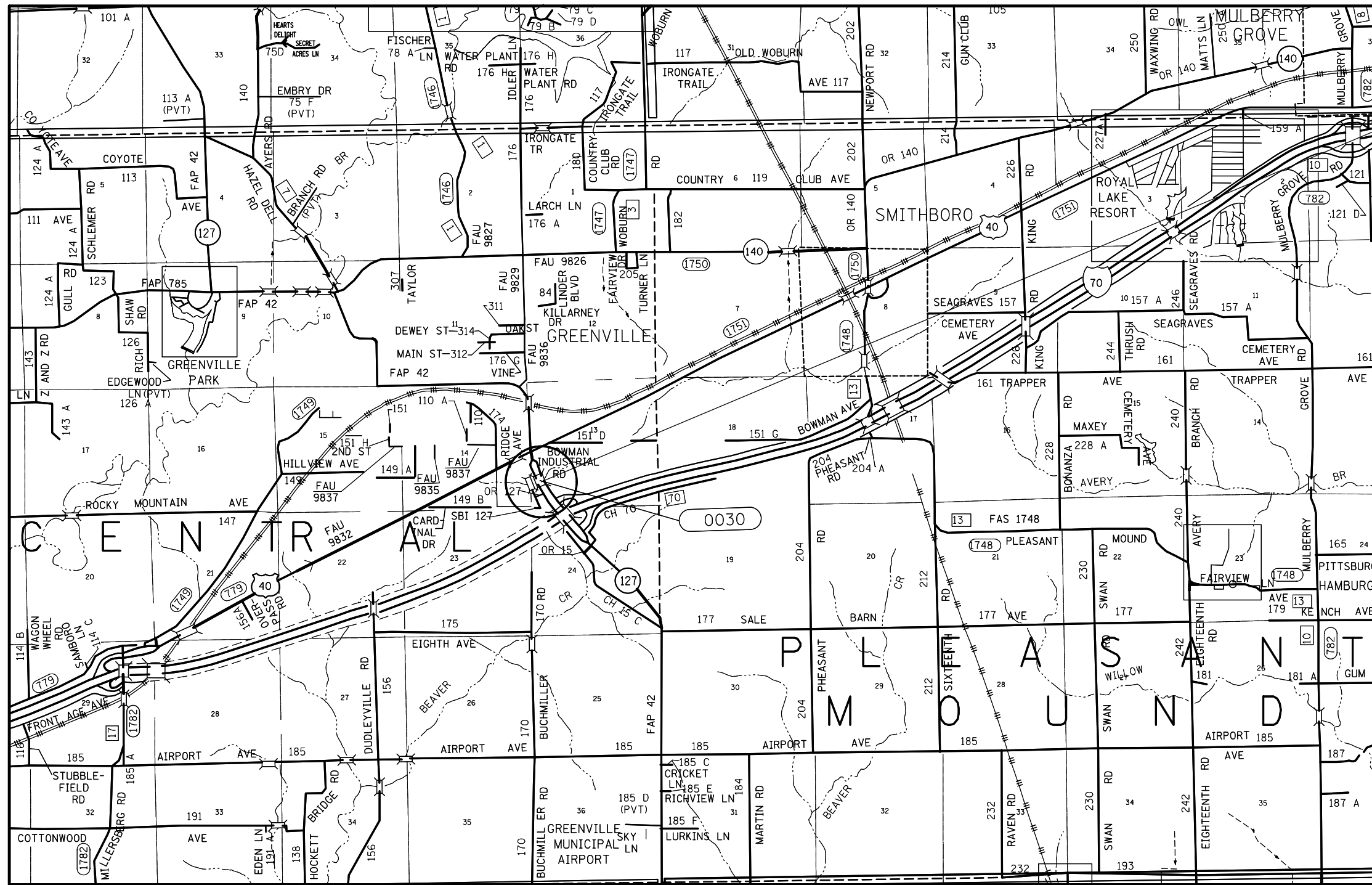
ITEM	UNIT	TOTAL	SN 003-0030	SN 014-0024	SN 060-0087	079-0032	SN 082-0123	SN 095-0016
CHANNEL EXCAVATION	CU YD	155	20	20	25	40	20	30
STONE RIPRAP, CLASS A4	SQ YD	1245	290		955			
STONE RIPRAP, CLASS A5	SQ YD	1990		720		225	290	755
FILTER FABRIC	SQ YD	2870	195	500	905	225	290	755
NON-SPECIAL WASTE DISPOSAL	CU YD	75	21	21				33
SPECIAL WASTE PLANS AND REPORTS	L SUM	1	0.33	0.33				0.34
SOIL DISPOSAL ANALYSIS	EACH	3	1	1				1
MOBILIZATION	L SUM	1	0.16	0.16	0.17	0.17	0.17	0.17
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.16	0.16	0.17	0.17	0.17	0.17

•DIST 8 SCOUR MITIGATION 2016-1

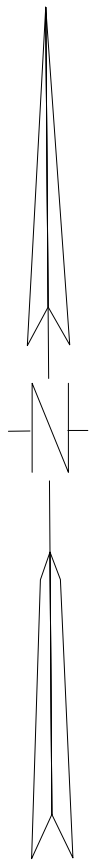
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pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 8\Projects\0876\DRAWING\DATA\EA0sheets\0876\0876-sht-sched							•		16	4
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -						CONTRACT NO. 76H87	
	PLOT DATE = 2/4/2016	DATE -	REVISED -		SCALE: NA	SHEET 1	OF 1	SHEETS	STA.	TO STA.
									ILLINOIS FED. AID PROJECT	

R 3 W

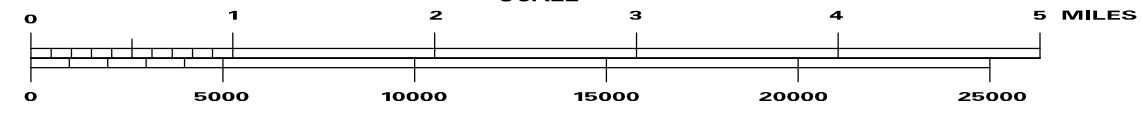
T 5 N



LOCATION 1
 S.N. 003-0030 - STA. 984+65
 IL 127 OVER BEAVER CREEK
 0.26 MILES SOUTH OF US 40-CENTRAL TNSHP
 BOND COUNTY
 LATITUDE - 38.87614466
 LONGITUDE - -89.39019369



SCALE



•DIST 8 SCOUR MITIGATION 2016-1

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -
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	PLOT DATE = 2/4/2016	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

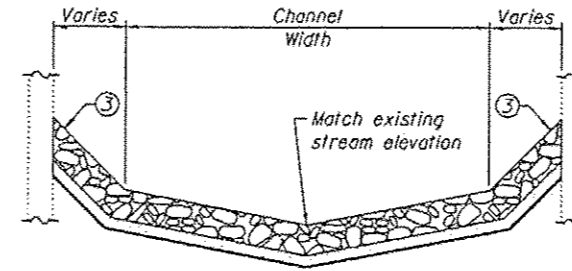
LOCATION 1 MAP
 SN 003-0030 - BOND COUNTY

SCALE: SEE ABOVE SHEET 1 OF 6 SHEETS STA. TO STA.

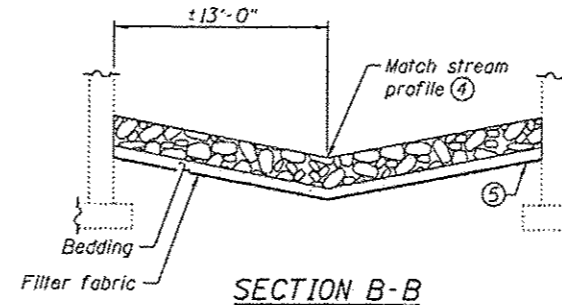
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	•	VARIOUS	15	5
CONTRACT NO. 76H87				
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 060-0188 consists of a single span precast prestressed concrete deck beam superstructure supported on concrete closed abutments founded on spread footings.

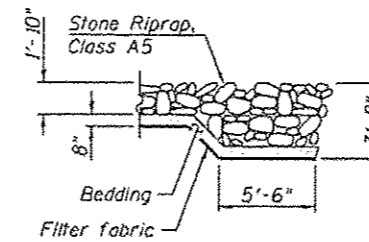
- Notes:
- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 - ② Layout of the scour mitigation system may be varied to suit ground conditions in the field as directed by the Engineer.
 - ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Stone Riprap, Class A5.
 - ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost included in Stone Riprap, Class A5.
 - ⑤ At the abutments, no excavation shall be allowed below the top of the footing.
 - ⑥ The cost of removing and disposing of existing riprap, brick, block, rubble, soil, or other materials as encountered is included in the cost of Stone Riprap, Class A5.
 - ⑦ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
 - ⑧ Elevation view shown as of December 17, 2015. Actual conditions may vary.
 - ⑨ Estimated quantities. Actual quantities to be determined in the field.



SECTION A-A



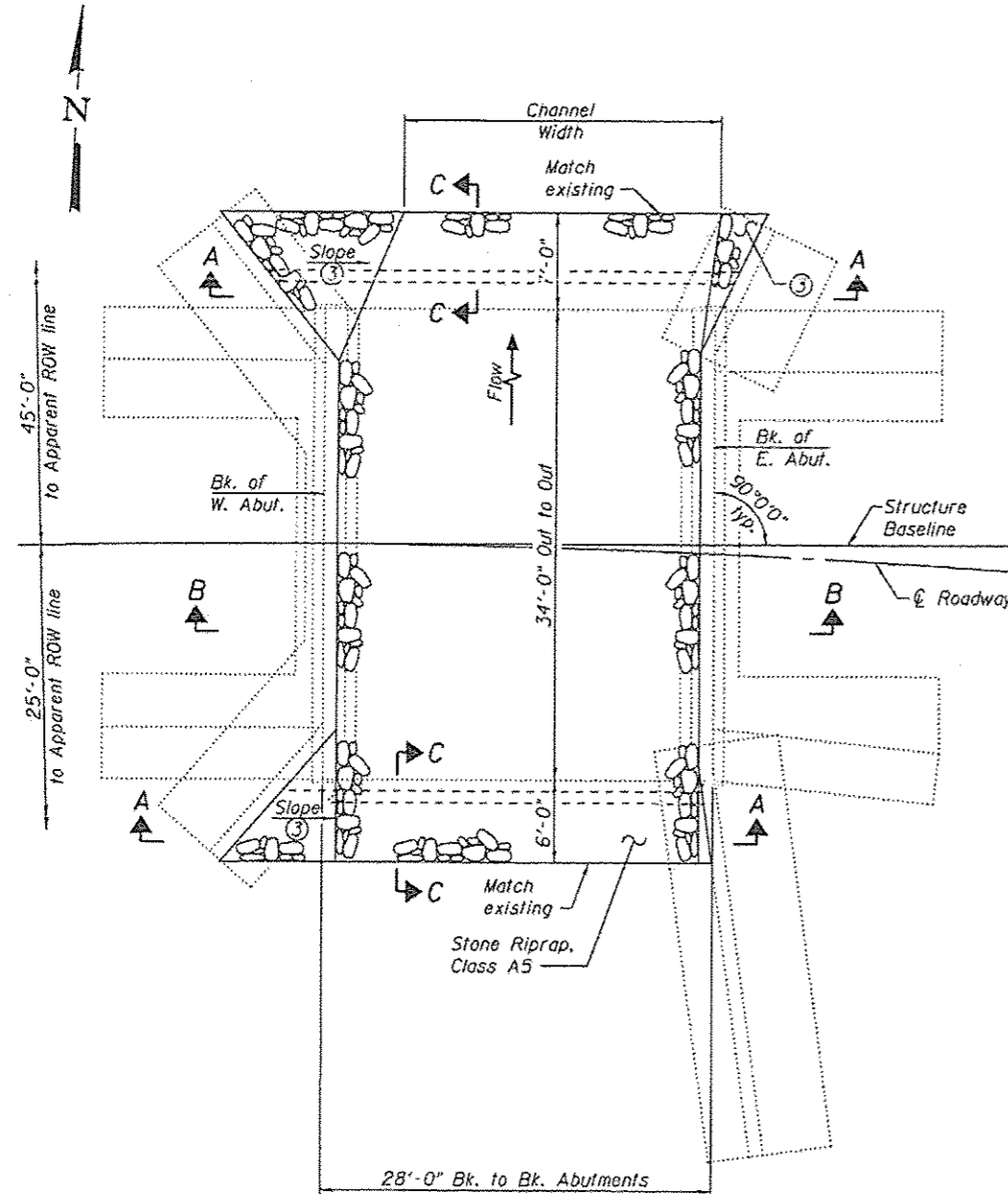
SECTION B-B



SECTION C-C



ELEVATION VIEW ⑧
(Looking North)



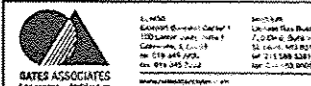
PLAN

TOTAL BILL OF MATERIAL ⑨

CODE NO.	ITEM	UNIT	TOTAL
28100109	Stone Riprap, Class A5	Sq. Yd.	155
28200289	Filter Fabric	Sq. Yd.	155

DANIEL GEORGE LUTZ
062-060383
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
DATE: 1/25/2016
EXPIRATION: 11/30/2017

IL ROUTE 143 OVER MOONEY CREEK
STRUCTURE NO. 060-0188



USER NAME *	DESIGNED - SJN	REVISED
	CHECKED - JAD	REVISED
PLOT SCALE *	DRAWN - SJN	REVISED
PLOT DATE *	CHECKED - JAD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 1

SHEET NO. 1 OF 2 SHEETS

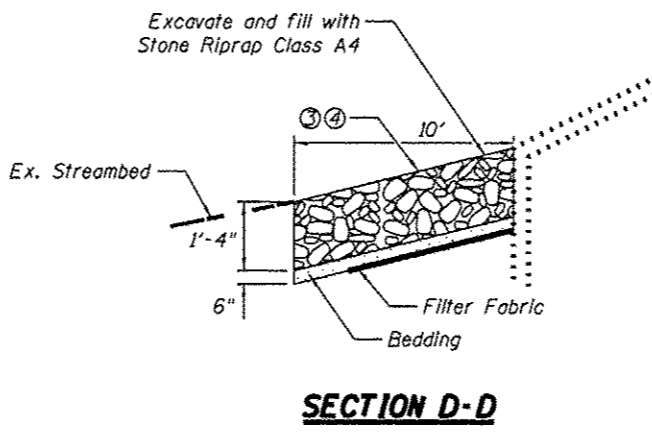
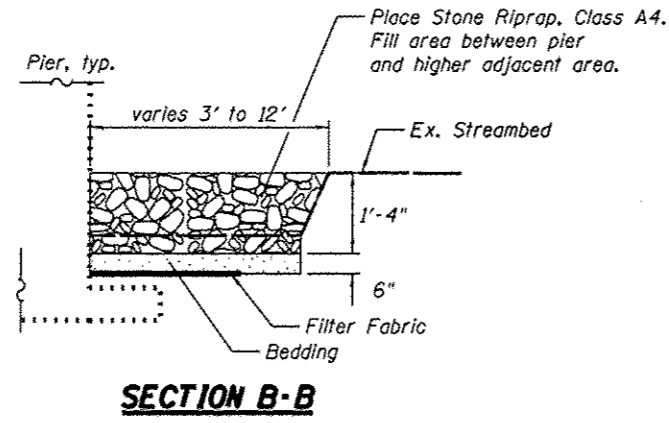
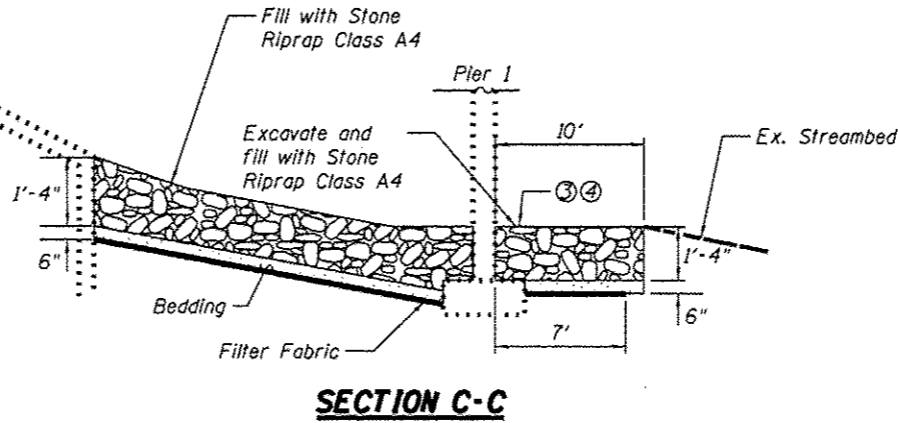
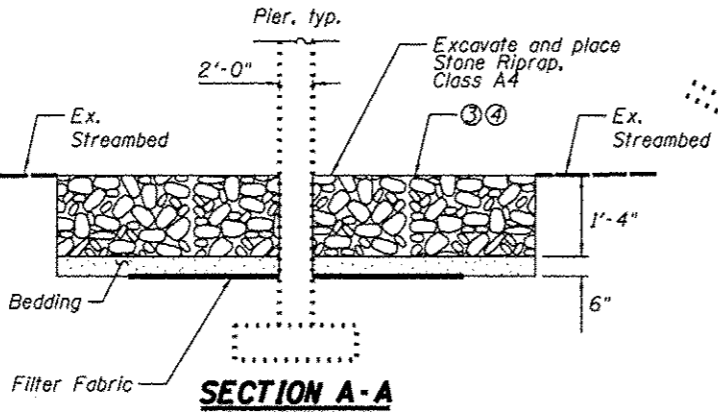
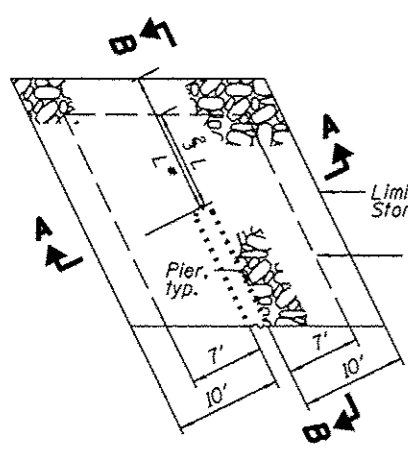
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	56BR-1, 52-1B1-1	**	7	6
CONTRACT NO. 76J37				

ILLINOIS FED. AID PROJECT

Existing Structure: S.N. 031-0031 consists of a 12-span steel I-beam structure supported on open abutments founded on concrete piles and protected by concrete slopewalls, and eleven solid wall concrete piers with footings founded on timber piles.

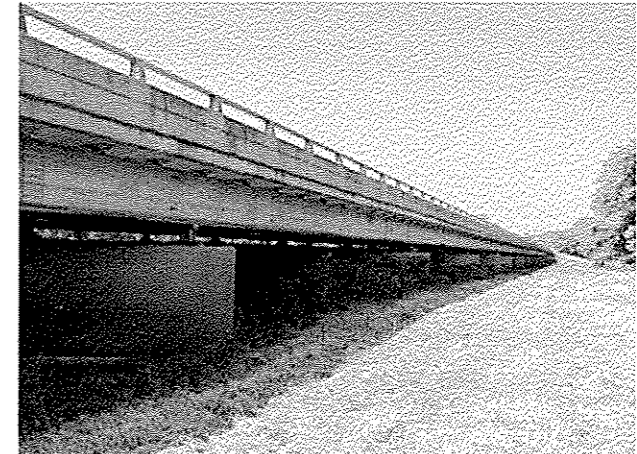
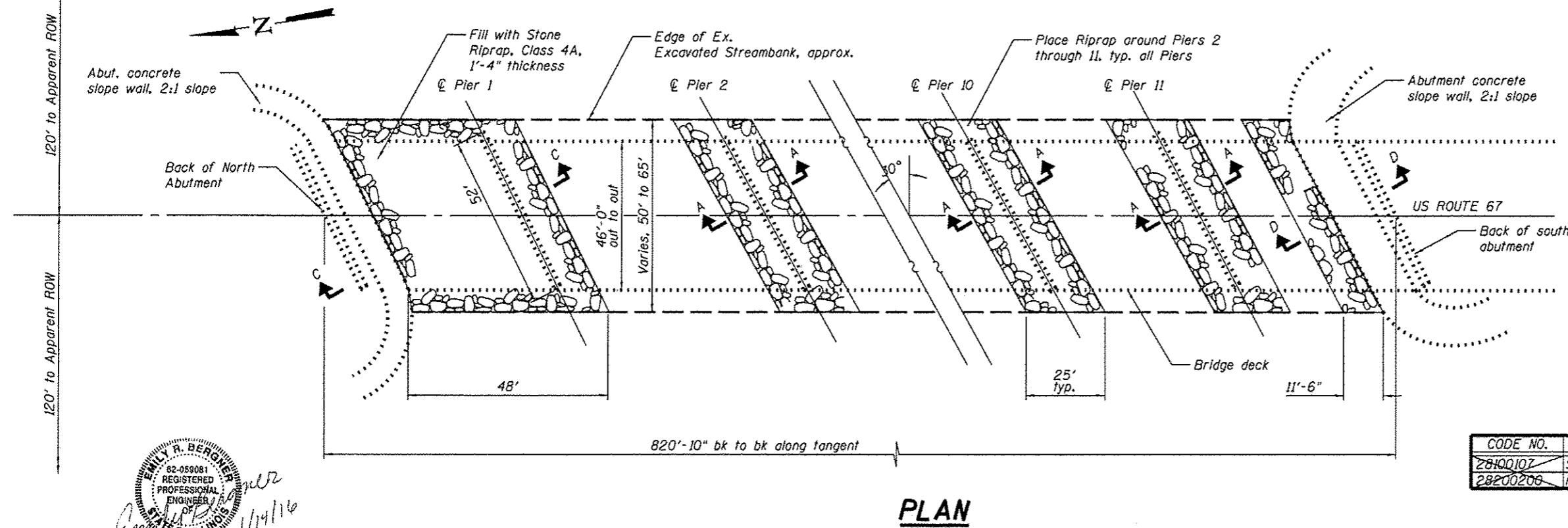
GENERAL NOTES

- ① Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening or block the flow of the drainage ditches below the structure.
- ③ Grade streambed so that top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost Included Stone Riprap, Class A4.
- ④ No excavation shall be allowed below the top of footing at the abutments and piers.
- ⑤ The cost of removing and disposing of existing riprap, brick, block, rubble, soil, or other materials as encountered is included in the cost of Stone Riprap, Class A4.
- ⑥ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
- ⑦ Elevation view shown as of September 2013. Actual conditions may vary.
- ⑧ Estimated quantities. Actual quantities to be determined in the field.



RIPRAP PROTECTION AT PIERS

*Length, L, varies, 3' to 12', to edge of ex. excavated bank. Filter fabric to extend to 2/3 length of riprap.



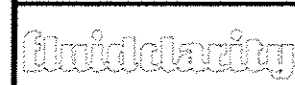
ELEVATION VIEW ①
(Looking North)

TOTAL BILL OF MATERIAL ⑧

CODE NO.	ITEM	UNIT	QUANTITY
28100107	Stone Riprap, Class A4	Sq. Yd.	2200
28200208	Filter Fabric	Sq. Yd.	1720

US 67 OVER APPLE CREEK OVERFLOW
STRUCTURE NO. 031-0031

EMILY R. BERGNER
82-059081
REGISTERED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS
11/14/16
11/30/17

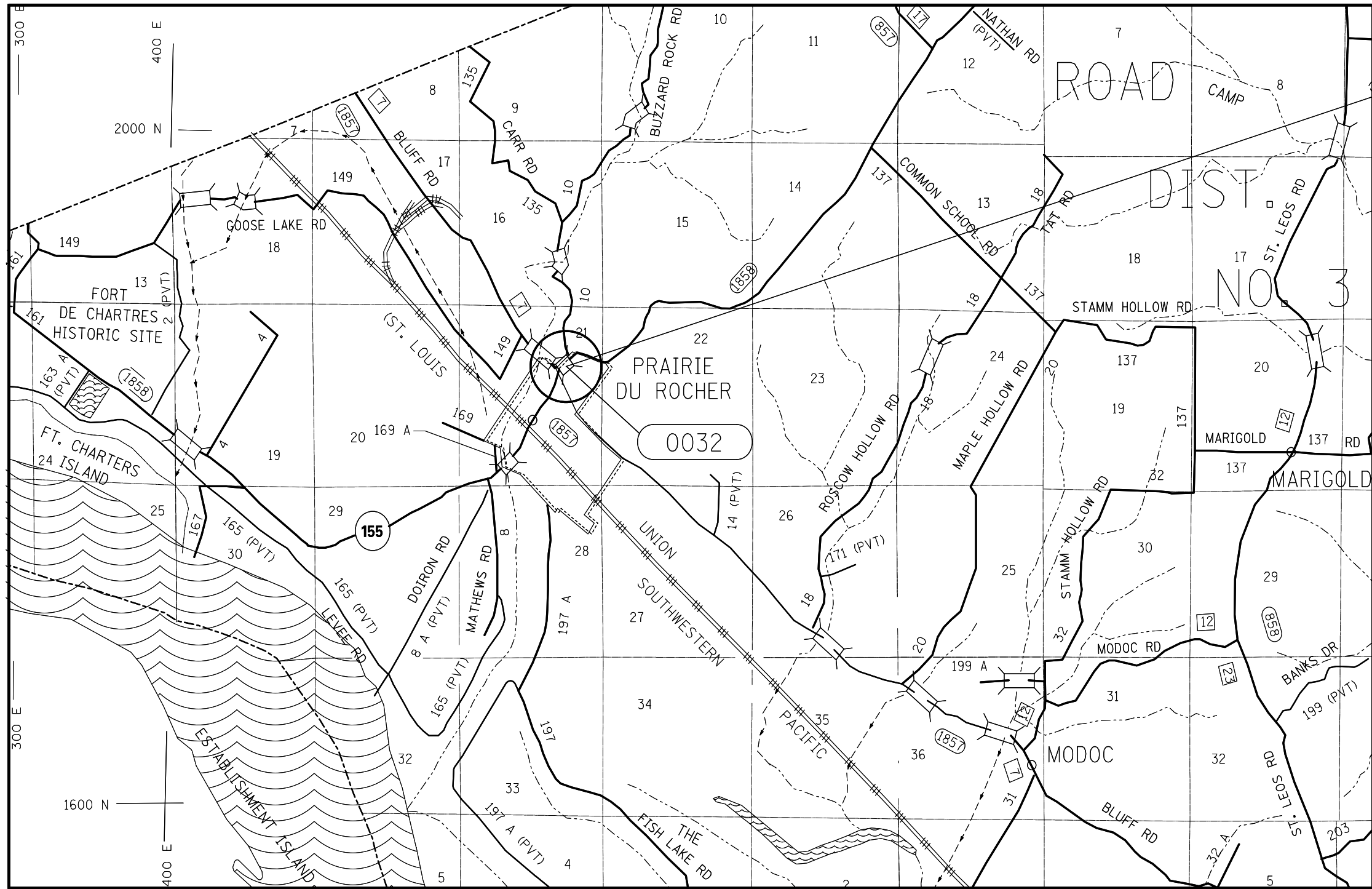


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PLOT SCALE *	CHECKED MK	REVISED
DATE	DRAWN ML/EB	REVISED
	CHECKED	REVISED

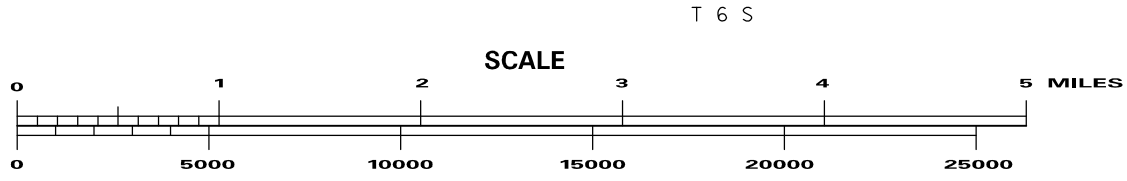
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 2

•789/310		**MADISON/GREENE	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
	56BR-1, 52-1B1-1	**	7
			SHEET NO. 7
CONTRACT NO. T6J37			



LOCATION 4
 S.N. 079-0032 - STA. 221+73.6
 IL 155 OVER UNNAMED STREAM
 IN PRAIRIE DU ROCHER
 RANDOLPH COUNTY
 LATITUDE - 38.08818444
 LONGITUDE - -90.0915675



FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

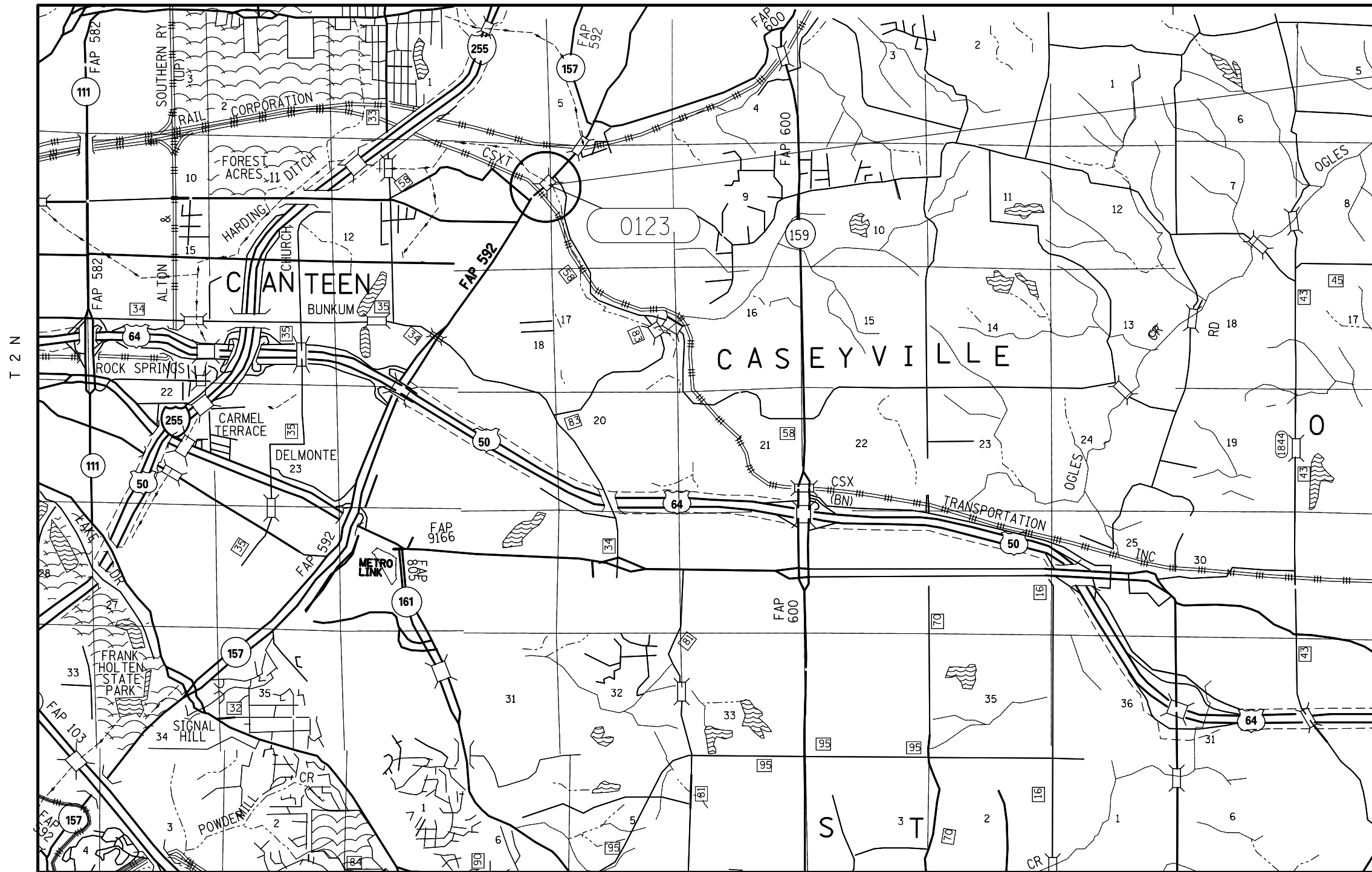
LOCATION 4 MAP
 SN 079-0032 RANDOLPH COUNTY

SCALE: SEE ABOVE SHEET 4 OF 6 SHEETS STA. TO STA.

*DIST 8 SCOUR MITIGATION 2016-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VARIOUS	15	8
			CONTRACT NO. 76H87	
ILLINOIS FED. AID PROJECT				

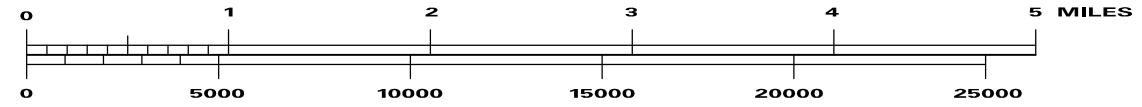
R 8 W



LOCATION 5
 S.N. 082-0123- STA. 162+75
 IL 157 OVER LITTLE CANTEEN CREEK
 IN CASEYVILLE-CASEYVILLE TNSHP
 ST. CLAIR COUNTY
 LATITUDE - 38.63863480
 LONGITUDE - -90.02323527

T 2 N

SCALE



•DIST 8 SCOUR MITIGATION 2016-1

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -
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		DATE -	REVISED -
MODELNAME	PLOT DATE = 2/4/2016		

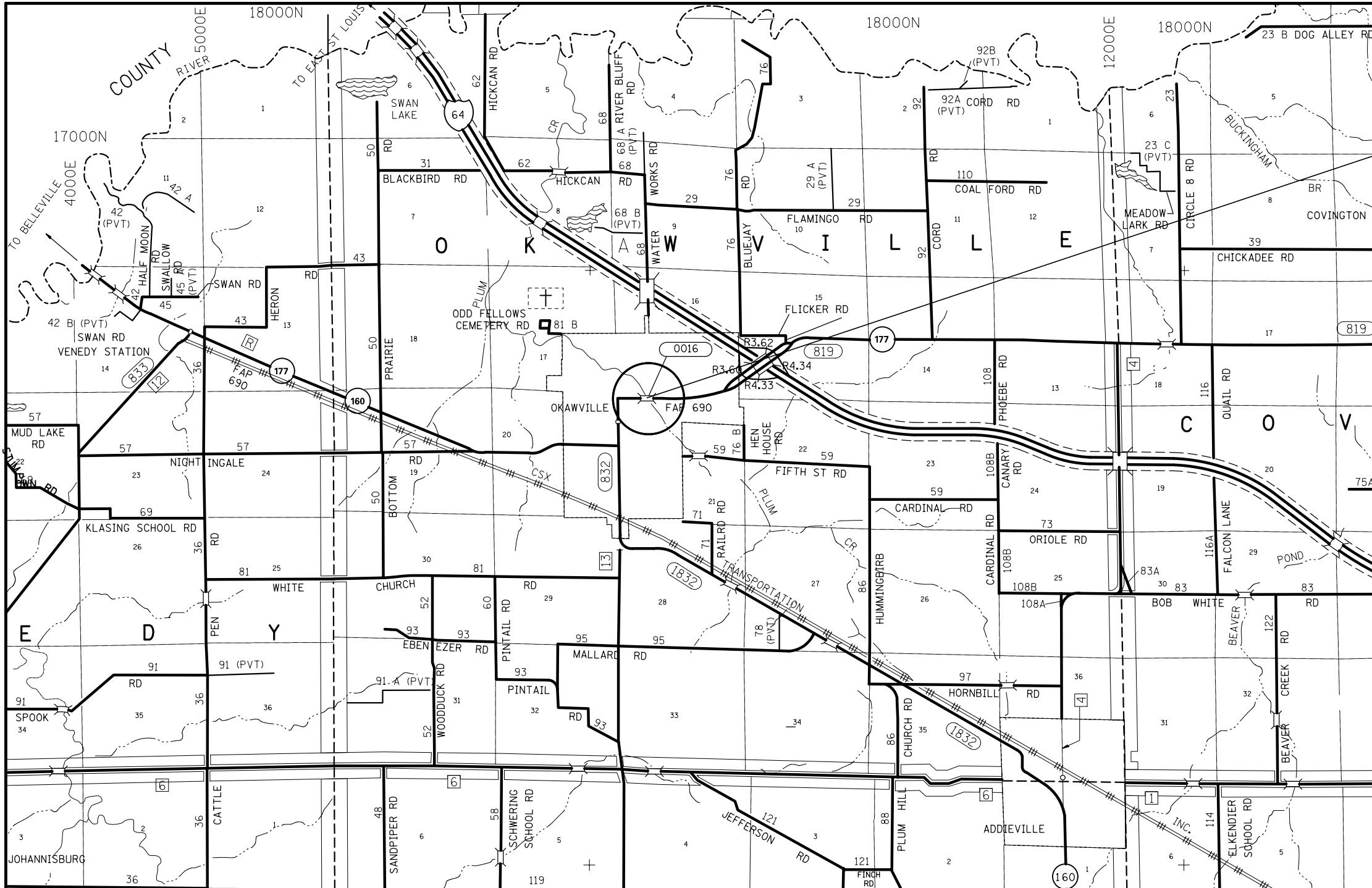
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 5 MAP
 SN 082-0123 ST. CLAIR COUNTY

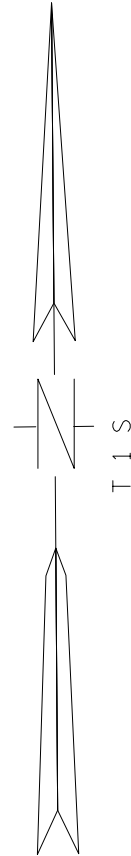
SCALE: SEE ABOVE SHEET 5 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		VARIOUS	15	9
CONTRACT NO. 76H87				
ILLINOIS FED. AID PROJECT				

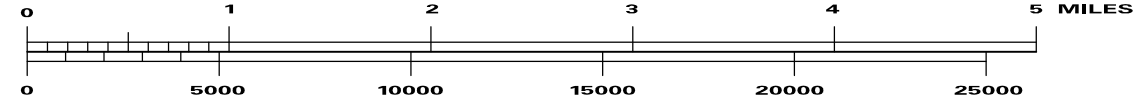
R 4 W



LOCATION 6
 S.N. 095-0016 - STA. 41+56.05
 IL 177 OVER PLUM CREEK
 1 MILE W OF I-64-OKAWVILLE TOWNSHIP
 WASHINGTON COUNTY
 LATITUDE - 38.43595002
 LONGITUDE - -89.54684535



SCALE



•DIST 8 SCOUR MITIGATION 2016-1

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -
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		DATE -	REVISED -
MODELNAME	PLOT DATE = 2/4/2016		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 6 MAP
 SN 095-0016 WASHINGTON COUNTY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VARIOUS	15	10
CONTRACT NO. 76H87				

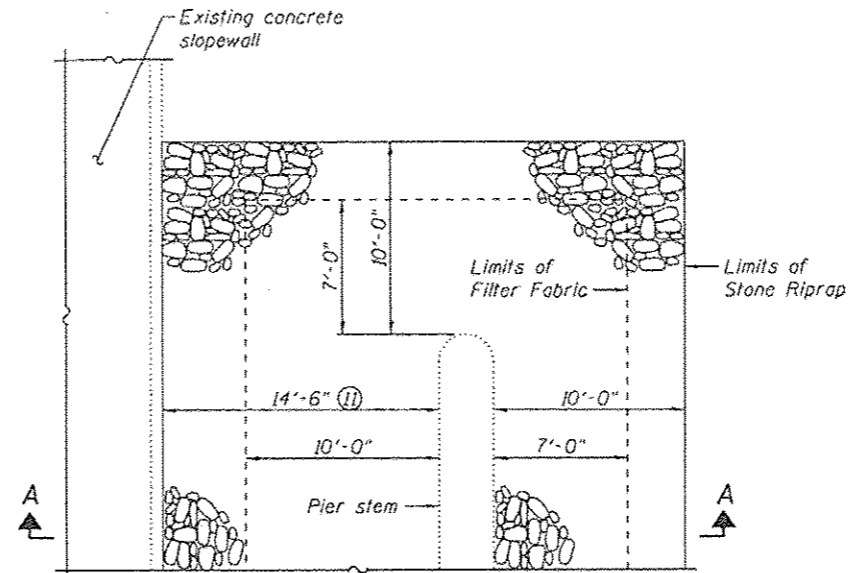
SCALE: SEE ABOVE SHEET 6 OF 6 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

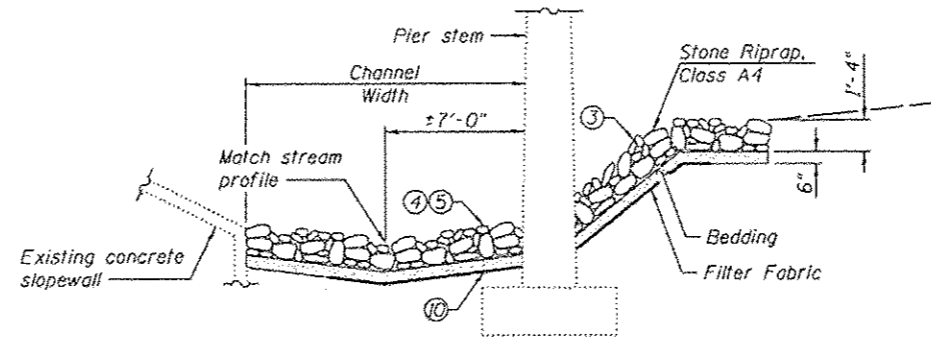
Existing Structure: S.N. 030-0030 consists of a two span steel stringer superstructure supported on concrete stub abutments founded on precast concrete piles and protected by concrete stopwalls and a solid wall pier founded on a spread footing.

Notes:

- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening.
- ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Channel Excavation.
- ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost included in Channel Excavation.
- ⑤ Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer.
- ⑥ Channel Excavation shall include the cost of removing and disposing of existing riprap, brick, block, rubble, or other material as encountered.
- ⑦ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
- ⑧ Elevation view shown as of January 30, 2014. Actual conditions may vary.
- ⑨ Estimated quantities. Actual quantities to be determined in the field.
- ⑩ At the pier face, the filter fabric shall not be lower than the top of footing.
- ⑪ Stone Riprap shall extend from the toe of the north stopwall to the north face of the pier.



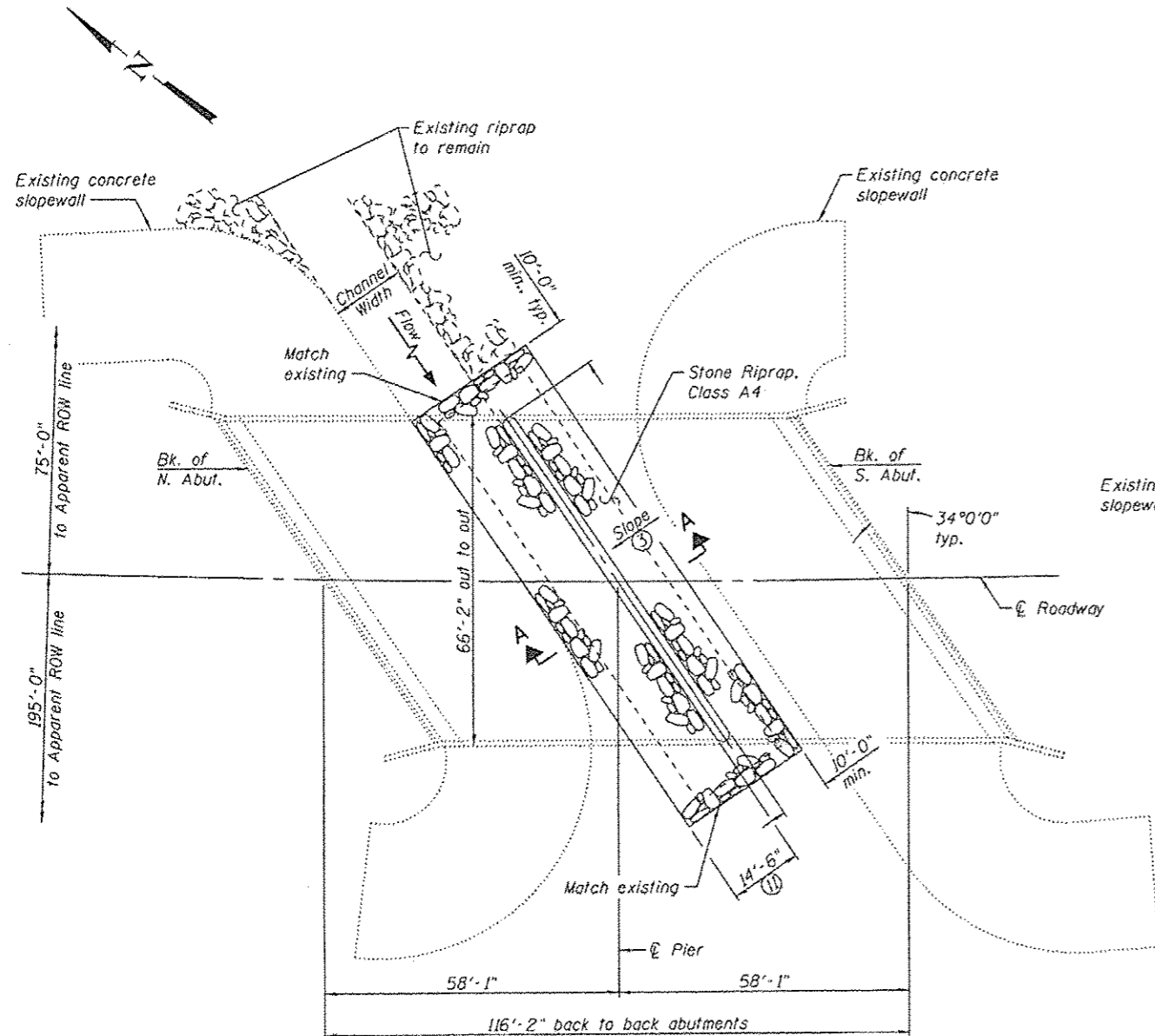
RIPRAP PROTECTION AT PIER



SECTION A-A



ELEVATION VIEW ⑧
(Looking West)



PLAN

TOTAL BILL OF MATERIAL ⑨

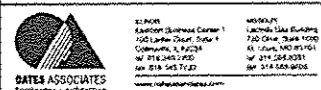
CODE NO.	ITEM	UNIT	TOTAL
20300100	Channel Excavation	Cu. Yd.	20
28200107	Stone Riprap, Class A4	Sq. Yd.	290
28200200	Filter Fabric	Sq. Yd.	195

IL ROUTE 127 OVER BEAVER CREEK
STRUCTURE NO. 003-0030

DANIEL GEORGE LUTZ
062-060383
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

DATE: 11/5/2015
EXPIRATION: 11/30/2015

*DIST 8 SCOUR MITIGATION 2016-1



USER NAME *	DESIGNED - MAG	REVISED
PLOT SCALE =	CHECKED - DGL	REVISED
PLOT DATE *	DRAWN - MAG	REVISED
	CHECKED - DGL	REVISED

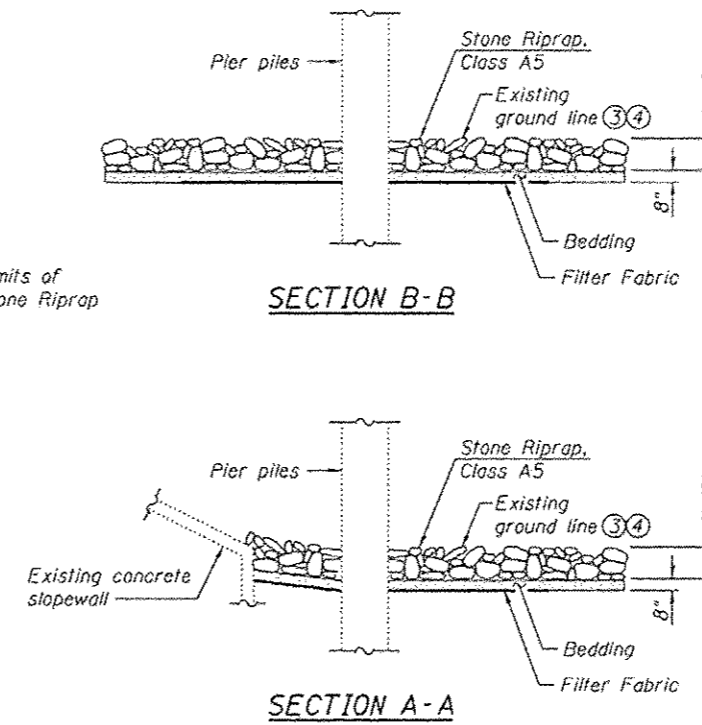
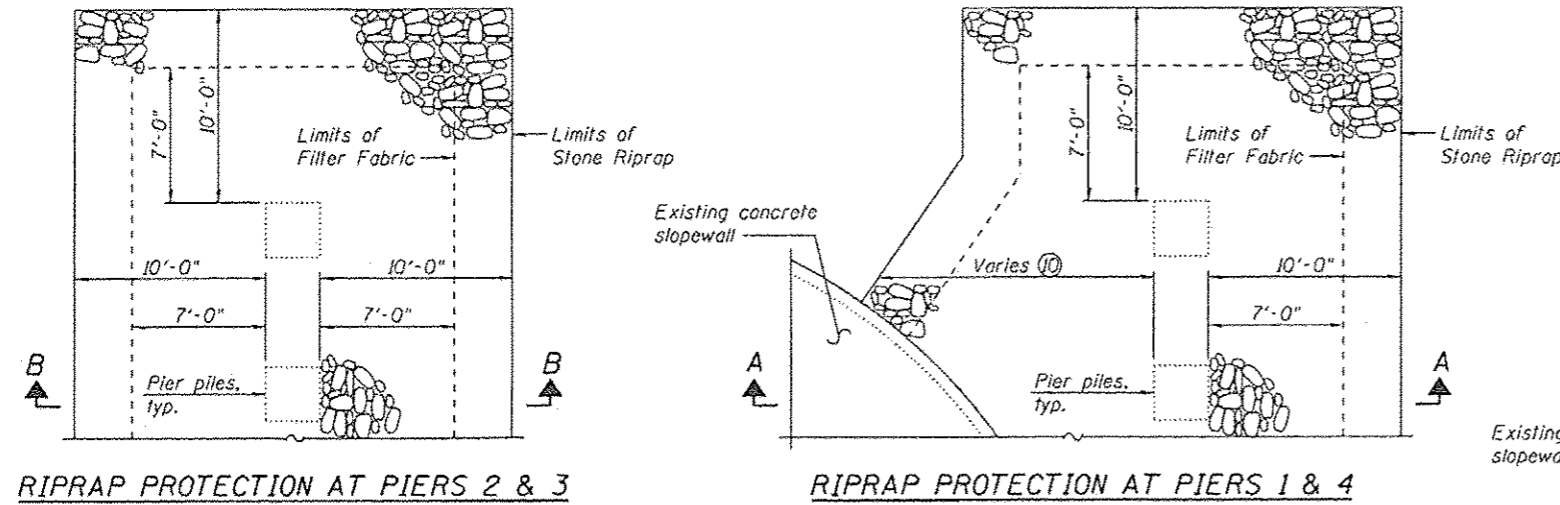
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 1

SHEET NO. 1 OF 6 SHEETS

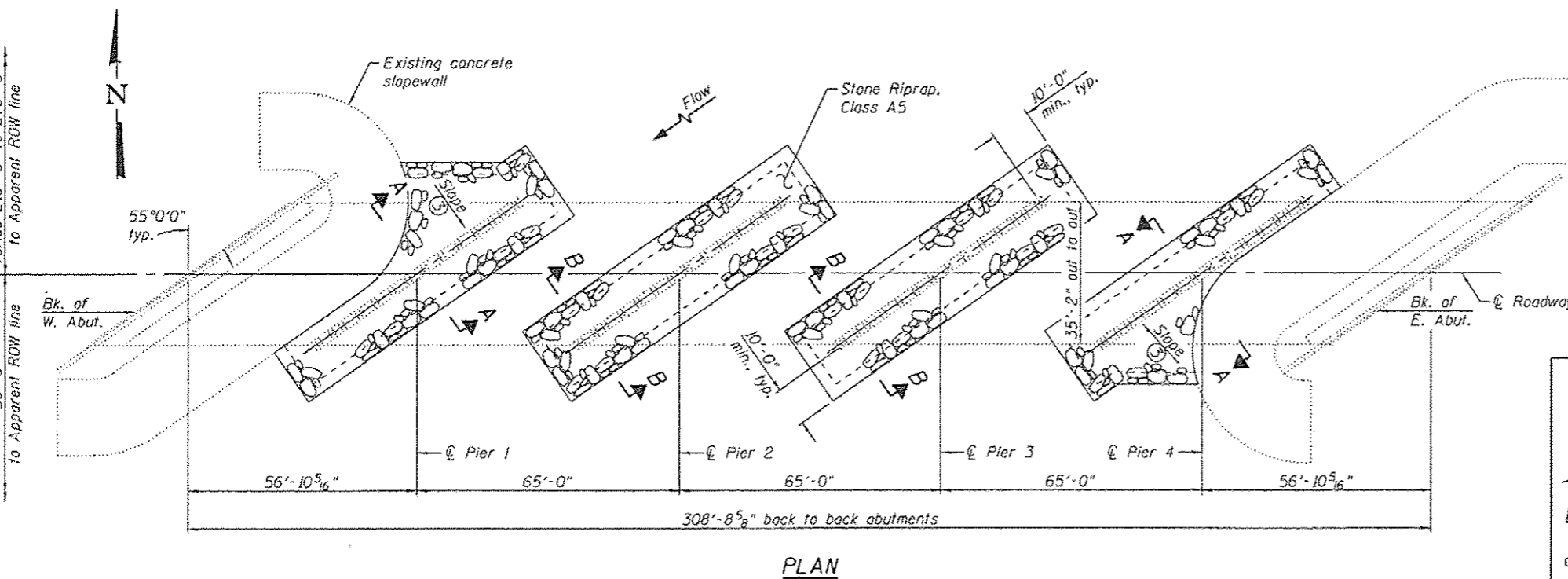
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VARIOUS	16	11
CONTRACT NO. 76H87				
[ILLINOIS] FED. AID PROJECT				

Existing Structure: S.N. 014-0024 consists of a five span continuous steel stringer superstructure supported on open abutments founded on precast concrete piles and protected by concrete slopewalls and individual pile bent piers founded on precast concrete piles.



RIPRAP PROTECTION AT PIERS 2 & 3

RIPRAP PROTECTION AT PIERS 1 & 4



PLAN

- Notes:
- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 - ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening.
 - ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Channel Excavation.
 - ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost included in Channel Excavation.
 - ⑤ Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer.
 - ⑥ Channel Excavation shall include the cost of removing and disposing of existing riprap, brick, block, rubble, or other material as encountered.
 - ⑦ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
 - ⑧ Elevation view shown as of January 31, 2014. Actual conditions may vary.
 - ⑨ Estimated quantities. Actual quantities to be determined in the field.
 - ⑩ Stone Riprap shall extend to the toe of the slopewall.



ELEVATION VIEW ⑧
(Looking Northeast)

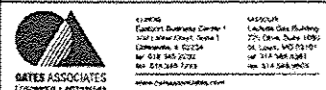
TOTAL BILL OF MATERIAL ⑨

CODE NO.	ITEM	UNIT	TOTAL
20300100	Channel Excavation	Cu. Yd.	20
28100109	Stone Riprap, Class A5	Sq. Yd.	720
28200200	Filter Fabric	Sq. Yd.	500

Professional Engineer Seal for Daniel George Lutz, License No. 062-060383, State of Illinois. Includes a signature and date: 11/5/2015, expiration: 11/30/2015.

IL ROUTE 161 OVER LOST CREEK
STRUCTURE NO. 014-0024

*DIST 8 SCOUR MITIGATION 2016-1



USER NAME	DESIGNED	REVISIONS
MAG	MAG	REVISIONS
JAD	JAD	REVISIONS
MAG	MAG	REVISIONS
JAD	JAD	REVISIONS

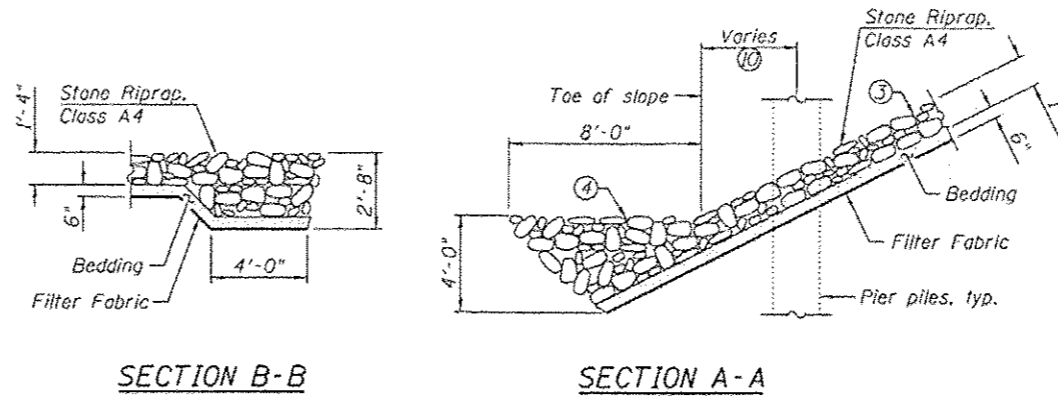
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 2

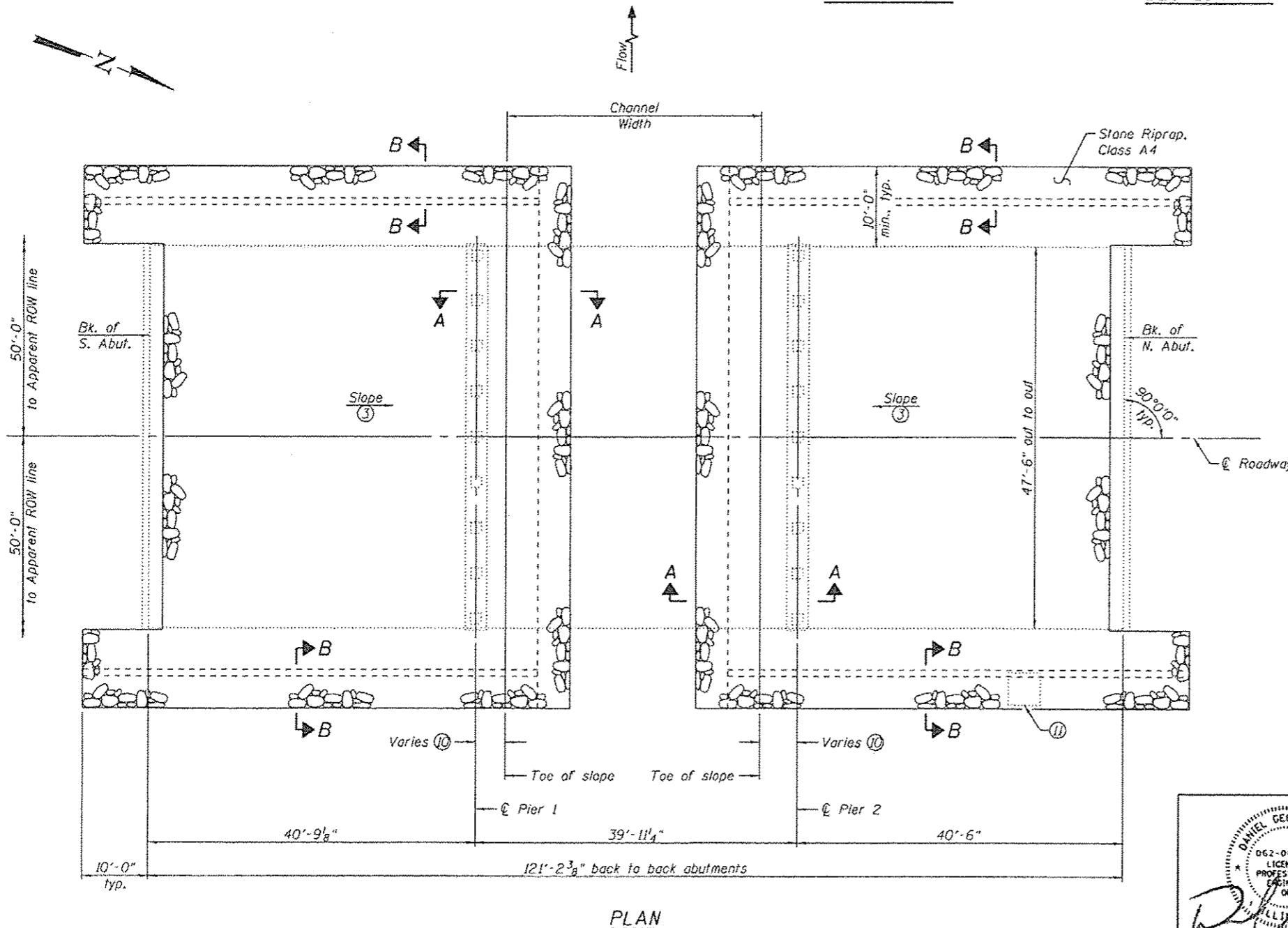
SHEET NO. 2 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VARIOUS	16	12
			CONTRACT NO. 76H87	
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 060-0087 consists of a three span steel superstructure supported on concrete open abutments founded on precast concrete piles and individual pile bent piers founded on precast concrete piles.



- Notes:
- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 - ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening or block the flow of the drainage ditches adjacent to the structure.
 - ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Channel Excavation.
 - ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost included in Channel Excavation.
 - ⑤ Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer.
 - ⑥ Channel Excavation shall include the cost of removing and disposing of existing riprap, brick, block, rubble, or other material as encountered.
 - ⑦ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
 - ⑧ Elevation view shown as of February 4, 2014. Actual conditions may vary.
 - ⑨ Estimated quantities. Actual quantities to be determined in the field.
 - ⑩ Stone Riprap shall extend to the toe of the slope.
 - ⑪ USGS Stream Gage 05588720 located at the northeast corner. Adjust riprap layout as required to avoid existing stream gage instrumentation and associated service lines.



ELEVATION VIEW ⑧
(Looking West)

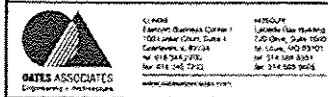
TOTAL BILL OF MATERIAL ③

CODE NO.	ITEM	UNIT	TOTAL
20300100	Channel Excavation	Cu. Yd.	25
28200107	Stone Riprap, Class A4	Sq. Yd.	955
28200200	Filter Fabric	Sq. Yd.	905

**IL ROUTE 157 / 162 OVER JUDY'S BRANCH CREEK
STRUCTURE NO. 060-0087**

DANIEL GEORGE LUTZ
 062-060383
 LICENSED PROFESSIONAL ENGINEER
 OF ILLINOIS
 DATE: 11/5/2015
 EXPIRATION: 11/30/2015

*DIST 8 SCOUR MITIGATION 2016-1



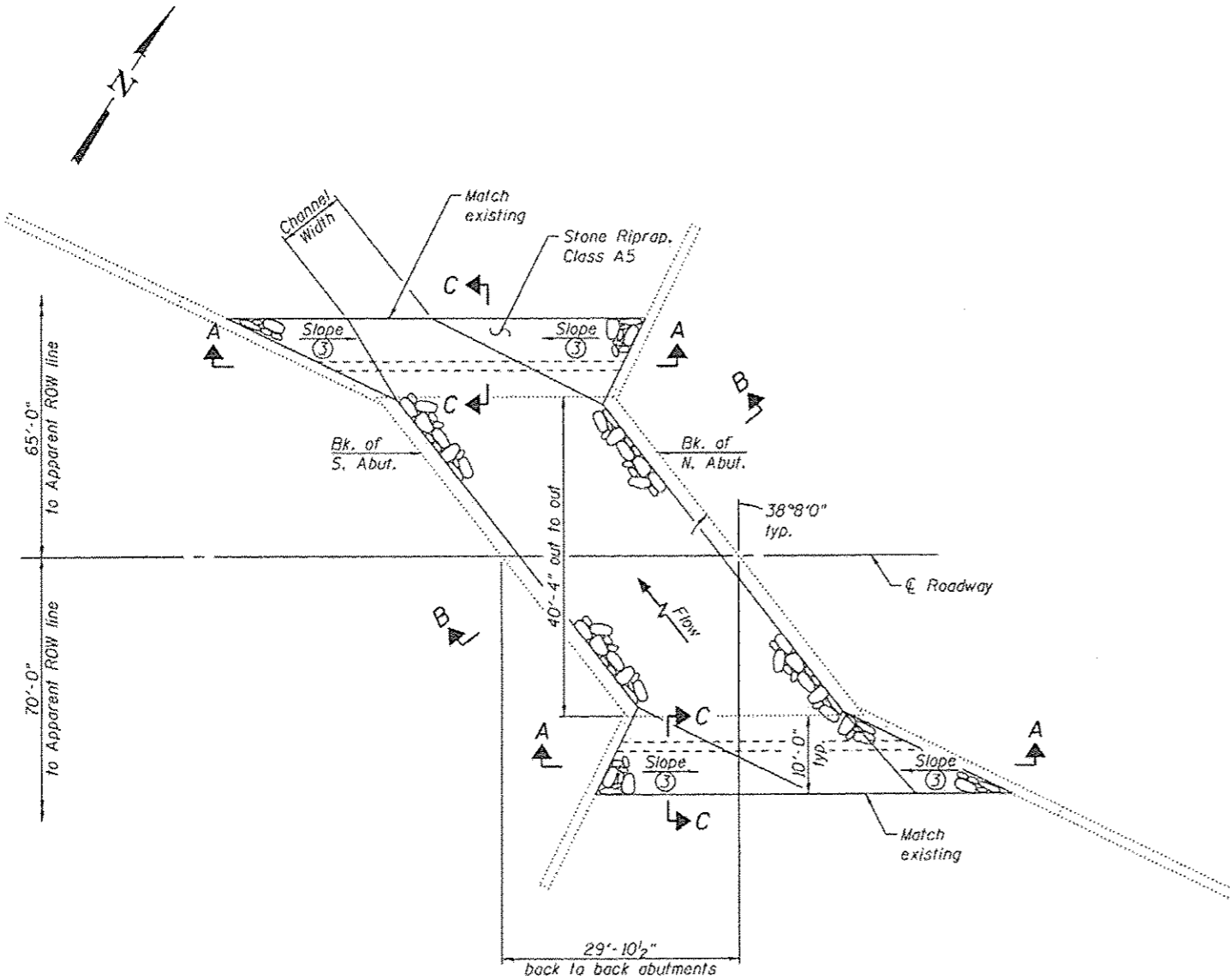
USER NAME *	DESIGNED - MAC	REVISED
PLOT SCALE *	CHECKED - JAD	REVISED
PLOT DATE *	DRAWN - MAG	REVISED
	CHECKED - JAD	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

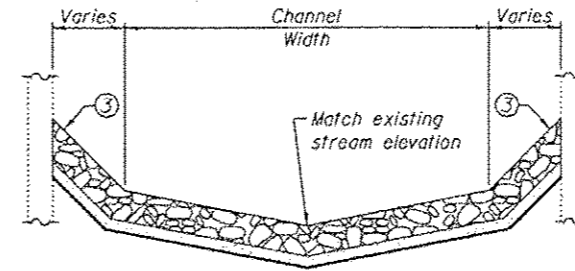
**GENERAL PLAN AND ELEVATION
LOCATION 3**
SHEET NO. 3 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VARIOUS	16	13
			CONTRACT NO. 76H87	

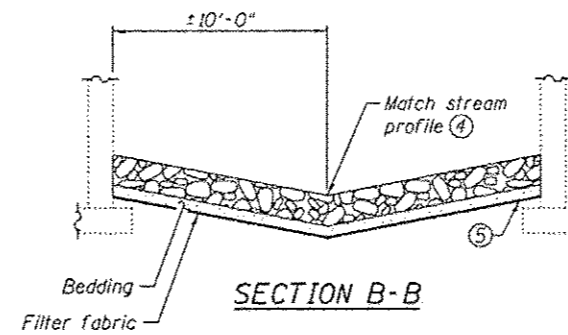
Existing Structure: S.N. 079-0032 consists of a single span concrete slab superstructure supported on concrete closed abutments with spread footings founded on timber piles.



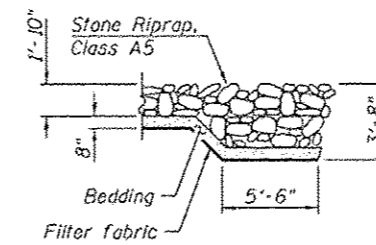
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

- Notes:
- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 - ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening.
 - ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Channel Excavation.
 - ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost included in Channel Excavation.
 - ⑤ At the abutment face, the filter fabric shall not be lower than the top of footing.
 - ⑥ Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer.
 - ⑦ Channel Excavation shall include the cost of removing and disposing of existing riprap, brick, block, rubble, or other material as encountered.
 - ⑧ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
 - ⑨ Elevation view shown as of February 4, 2014. Actual conditions may vary.
 - ⑩ Estimated quantities. Actual quantities to be determined in the field.



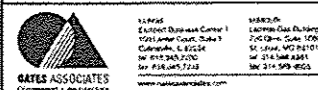
ELEVATION VIEW ⑨
(Looking East)

TOTAL BILL OF MATERIAL ⑩

CODE NO.	ITEM	UNIT	TOTAL
20300100	Channel Excavation	Cu. Yd.	40
28100109	Stone Riprap, Class A5	Sq. Yd.	225
28200206	Filter Fabric	Sq. Yd.	225

IL ROUTE 155 OVER STREAM IN PRAIRIE DU ROCHER
STRUCTURE NO. 079-0032

DANIEL GEORGE LUZZI
062-060383
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS
DATE: 11/5/2015
EXPIRATION: 11/30/2015



USER NAME	DESIGNED	REVISOR
MAG	MAG	
CHECKED	DESIGNED	REVISOR
JAD	MAG	
DRAWN	CHECKED	REVISOR
MAG	JAD	
PLOT DATE		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

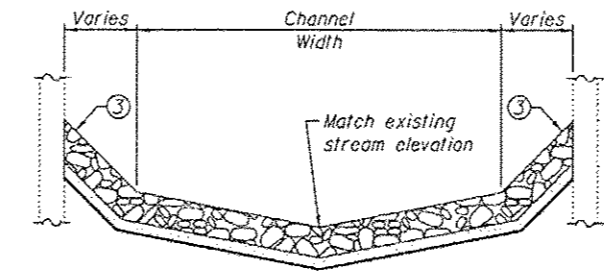
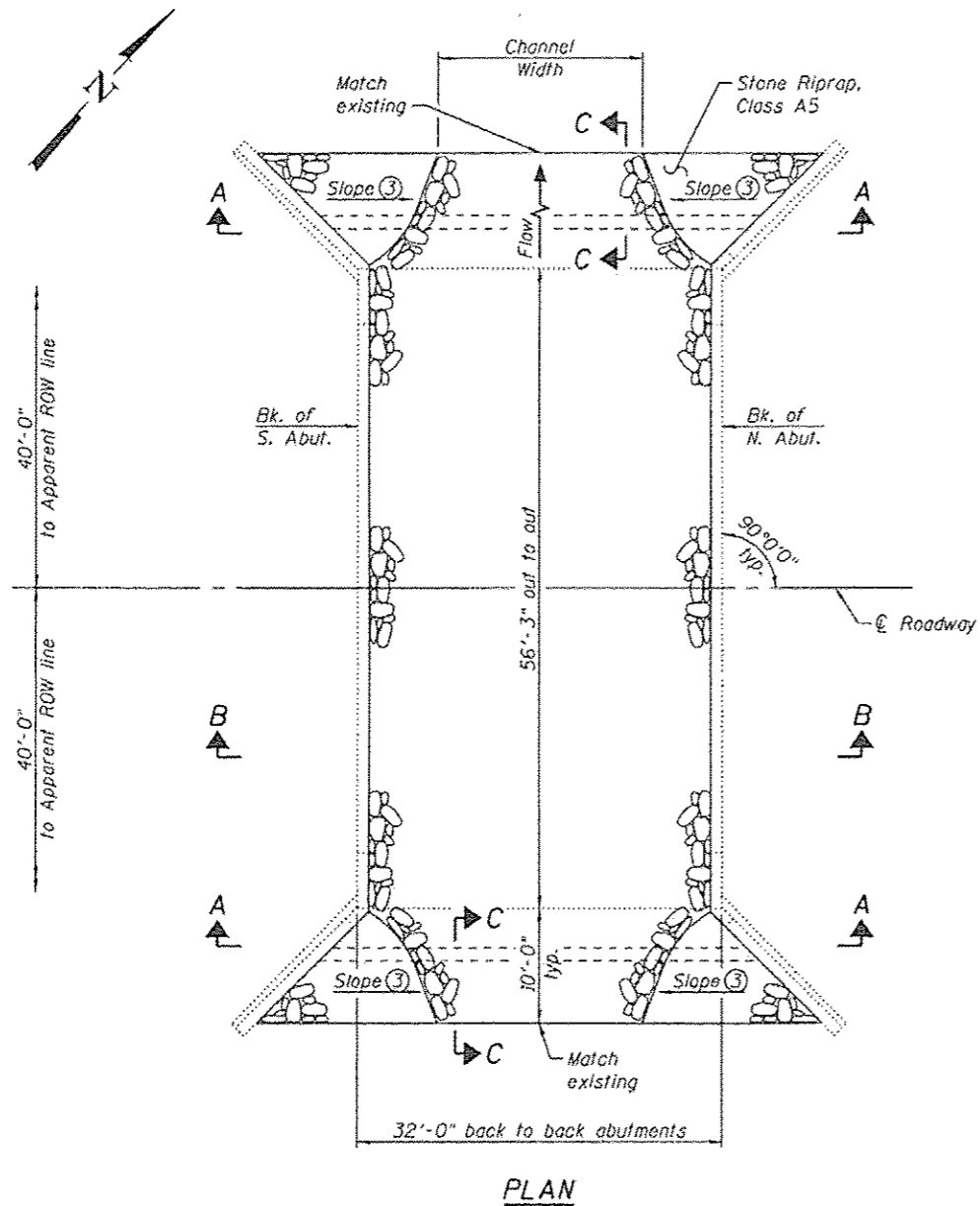
GENERAL PLAN AND ELEVATION
LOCATION 4

SHEET NO. 4 OF 6 SHEETS

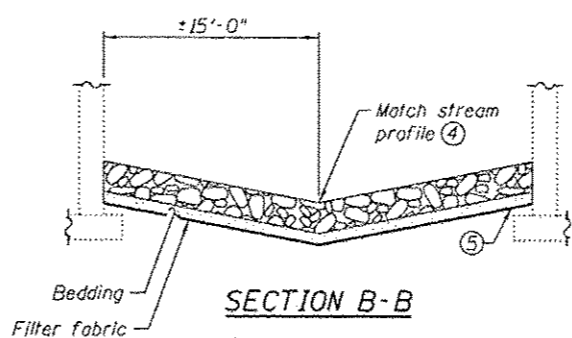
*DIST 8 SCOUR MITIGATION 2016-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	-	VARIOUS	16	14
			CONTRACT NO. 76H87	
ILLINOIS FED. AID PROJECT				

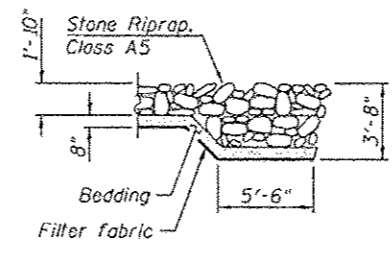
Existing Structure: S.N. 082-0123 consists of a single span concrete slab superstructure supported on concrete closed abutments with spread footings founded on timber piles.



SECTION A-A

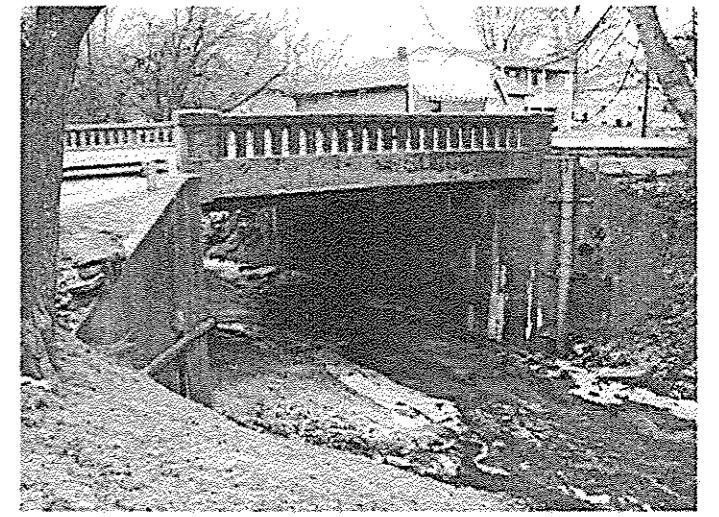


SECTION B-B



SECTION C-C

- Notes:
- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 - ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening.
 - ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Channel Excavation.
 - ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost included in Channel Excavation.
 - ⑤ At the abutment face, the filter fabric shall not be lower than the top of footing.
 - ⑥ Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer.
 - ⑦ Channel Excavation shall include the cost of removing and disposing of existing riprap, brick, block, rubble, or other material as encountered.
 - ⑧ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
 - ⑨ Elevation view shown as of February 4, 2014. Actual conditions may vary.
 - ⑩ Estimated quantities. Actual quantities to be determined in the field.
 - ⑪ Contractor shall take care to avoid any damage to utilities attached to the existing structure.



ELEVATION VIEW ⑨
(Looking East)

TOTAL BILL OF MATERIAL ⑩

CODE NO.	ITEM	UNIT	TOTAL
20300100	Channel Excavation	Cu. Yd.	20
28100109	Stone Riprap, Class A5	Sq. Yd.	290
28200209	Filter Fabric	Sq. Yd.	290

IL ROUTE 157 OVER LITTLE CANTEEN CREEK
STRUCTURE NO. 082-0123

Professional Engineer Seal for Daniel George Luiz, License No. 062-060383, State of Illinois. Includes signature and date: 11/5/2015, expiration: 11/30/2015.

Logo for GATES ASSOCIATED Engineering - Architecture.

USER NAME *	DESIGNED -	REVISOR
	MAG	
CHECKED -	DATE	REVISION
JAD		
DRAWN -	DATE	REVISION
MAG		
CHECKED -	DATE	REVISION
JAD		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

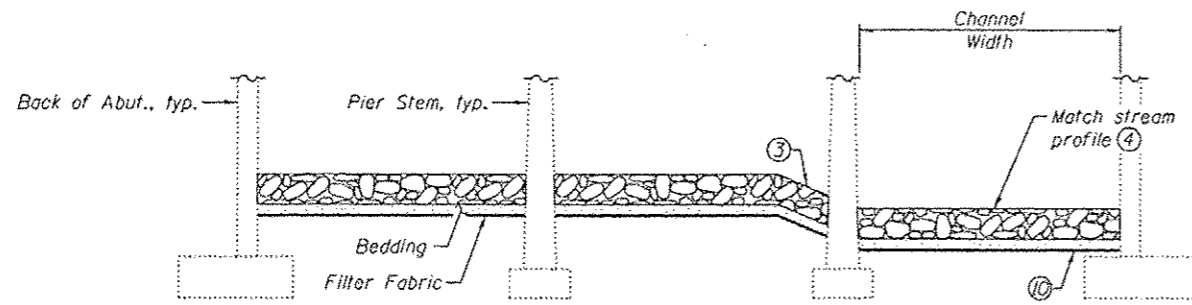
GENERAL PLAN AND ELEVATION
LOCATION 5

SHEET NO. 5 OF 6 SHEETS

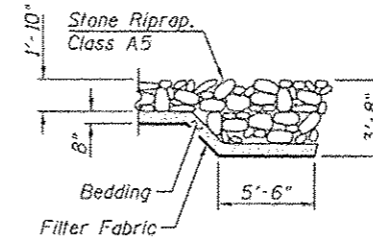
*DIST 8 SCOUR MITIGATION 2016-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR		VARIOUS	16	15
				CONTRACT NO. 76H87
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 095-0016 consists of a three span precast prestressed concrete deck beam superstructure supported on concrete closed abutments with spread footings founded on timber piles and solid wall piers with spread footings founded on timber piles.

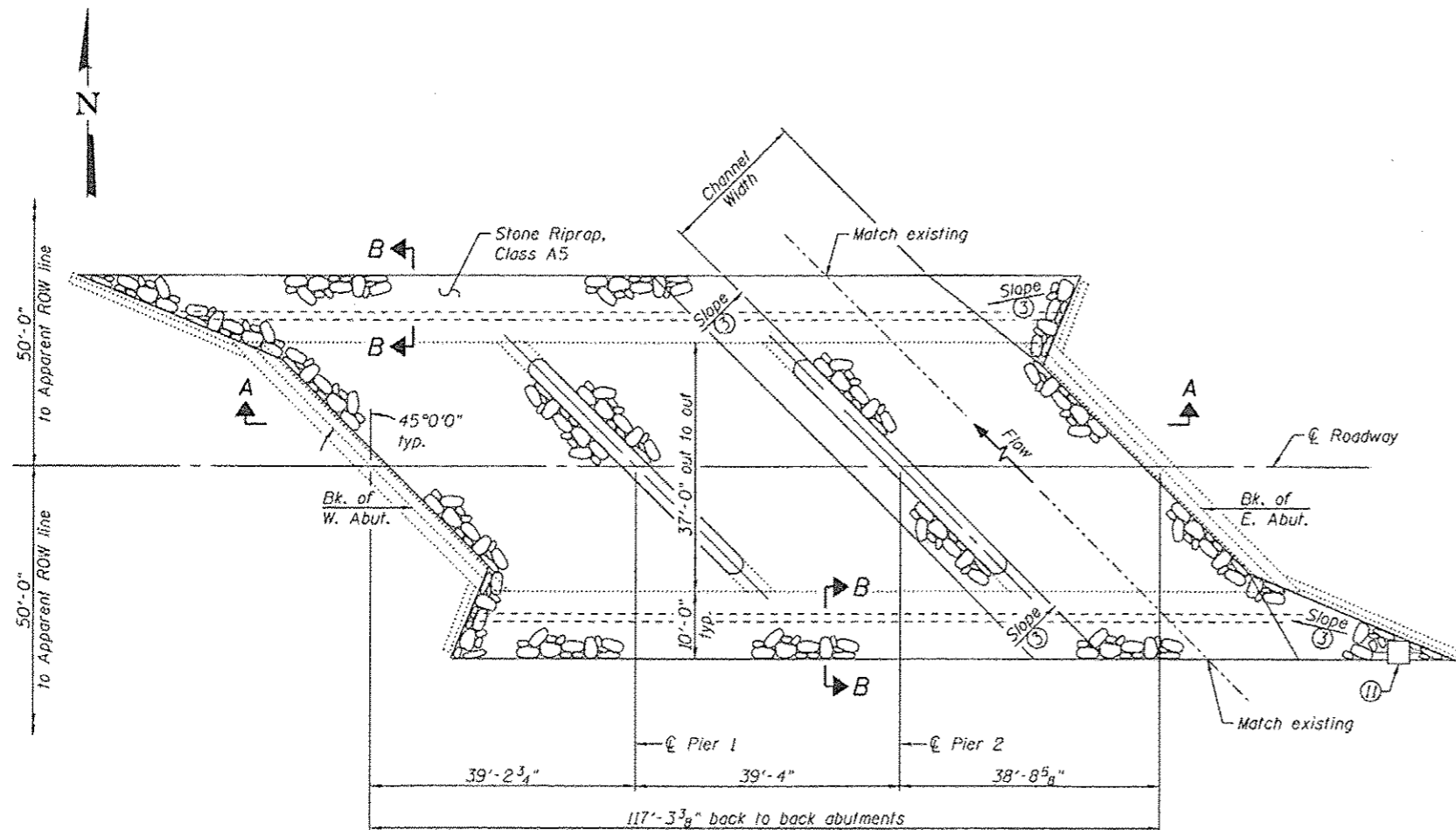


SECTION A-A



SECTION B-B

- Notes:
- ① The Contractor shall field verify existing dimensions, details, and conditions affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 - ② Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Slope protection system shall be placed in a manner that does not reduce the total waterway opening or block the flow of the drainage ditches below the structure.
 - ③ Grade channel bank to a slope that will provide a stable base for riprap as directed by the Engineer. Cost included in Channel Excavation.
 - ④ Grade streambed so that the top of the Stone Riprap approximately matches the existing stream profile as directed by the Engineer. Cost included in Channel Excavation.
 - ⑤ Additional excavation and reshaping of channel and bank may be required to facilitate proper placement of Stone Riprap as directed by the Engineer.
 - ⑥ Channel Excavation shall include the cost of removing and disposing of existing riprap, brick, block, rubble, or other material as encountered.
 - ⑦ Contractor to locate existing underground utilities. Where existing underground utilities conflict with riprap placement, the Contractor shall adjust the layout as directed by the Engineer.
 - ⑧ Elevation view shown as of January 31, 2014. Actual conditions may vary.
 - ⑨ Estimated quantities. Actual quantities to be determined in the field.
 - ⑩ At each substructure face, the filter fabric shall not be lower than the top of footing.
 - ⑪ Existing powerpole located near southeast wingwall. Adjust riprap layout as required to avoid existing utilities.



PLAN



ELEVATION VIEW ⑧
(Looking South)

TOTAL BILL OF MATERIAL ⑨

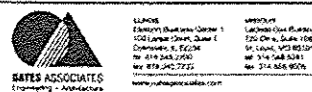
CODE NO.	ITEM	UNIT	TOTAL
20300100	Channel Excavation	Cu. Yd.	30
28100109	Stone Riprap, Class A5	Sq. Yd.	755
28200206	Filter Fabric	Sq. Yd.	755

IL ROUTE 177 OVER PLUM CREEK
STRUCTURE NO. 095-0016

DANIEL GEORGE LUJZ
062-060383
LICENSED PROFESSIONAL ENGINEER
ILLINOIS

DATE: 11/5/2015
EXPIRATION: 11/30/2015

*DIST B SCOUR MITIGATION 2016-1



USER NAME	DESIGNED	REVISIONS
MAC	MAC	1
JAD	JAD	2
MAG	MAG	3
JAD	JAD	4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 6

SHEET NO. 6 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR		VARIOUS	16	16
			CONTRACT NO. 76H87	
ILLINOIS FED. AID PROJECT				