

126

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	1
ILLINOIS			CONTRACT NO. 76J12	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

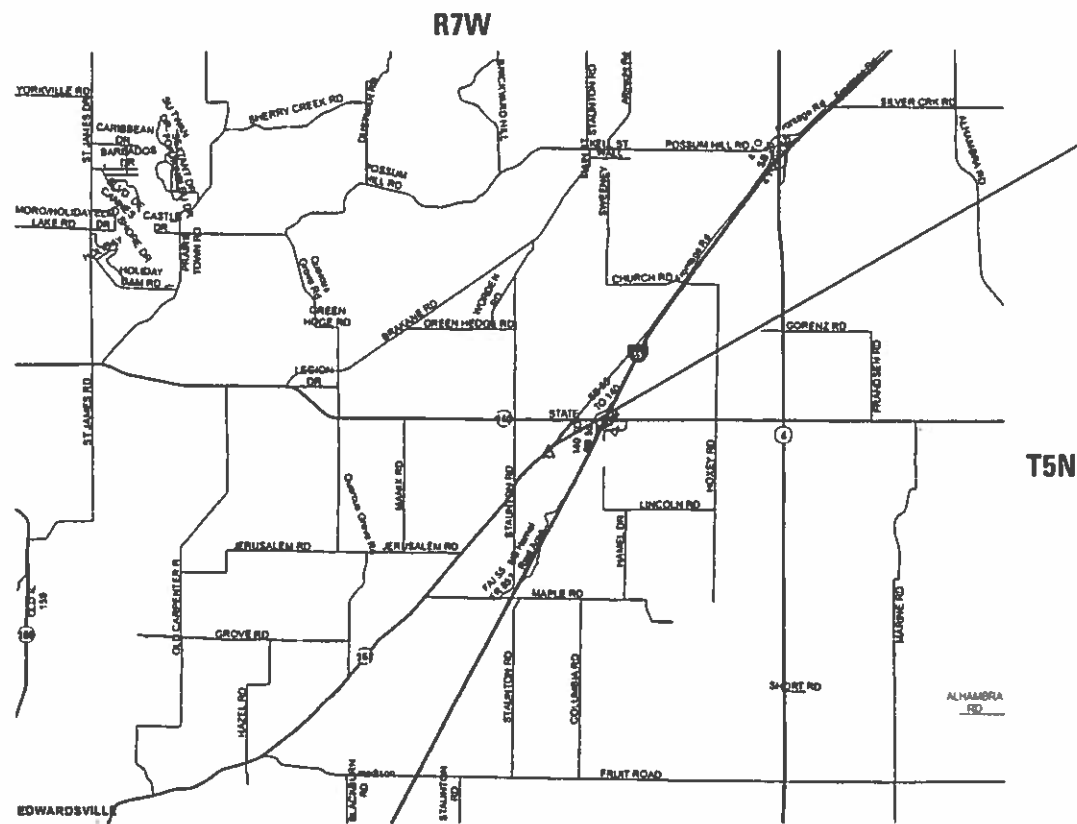
FAS ROUTE 770 (IL 157)
SECTION 66-BR
PROJECT STP-77XX(432)
STRUCTURE REPLACEMENT
MADISON COUNTY

C-98-272-18

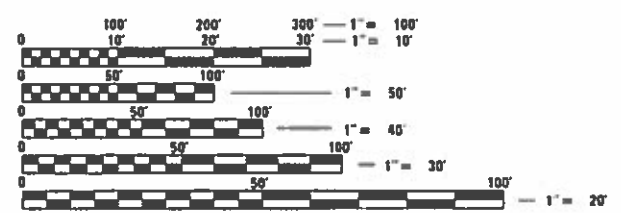
D-98-053-16



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -



PROJECT LOCATION
STATION 377+58.00
SN 060-2052(P) 060-2454(E)
DUAL 10 x10 REINFORCED
CONCRETE BOX CULVERT
ON A 15 DEGREE SKEW
TOTAL LENGTH - 44 FT
LATITUDE: 38.88411
LONGITUDE: -89.85036



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: HERVÉ GELIN 618-346-3179
PROJECT MANAGER: BILLIE OWEN 618-346-3209

CONTRACT NO. 76J12

FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR

NOT TO SCALE
GROSS LENGTH = 44 FT. = 0.010 MILE
NET LENGTH = 44 FT. = 0.010 MILE

ADT
2019 = 2,550 (ESTIMATED)
SU = 5.2%
MU = 1.2%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED Oct 19 2018
Jeffrey Z. Karas
REGIONAL ENGINEER
Dec 7 2018
ENGINEER OF DESIGN AND ENVIRONMENT
Paul J. Chy
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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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:
 - * AMEREN ILLINOIS (ELECTRIC AND GAS) *WINDSTREAM KDL, INC.
 - * VILLAGE OF HAMEL *MADISON TELEPHONE CO.

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
3. 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.
4. AN ESTIMATED QUANTITY OF 90 TONS OF CUTTINGS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION IS ANTICIPATED.
5. 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. 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 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. ANY TREE REMOVAL WILL BE GOVERNED BY THE TREE REMOVAL RESTRICTIONS OUTLINED IN THE COMMITMENTS.
6. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.0 OF THE STANDARD SPECIFICATIONS.
7. THIS PROJECT WILL REQUIRE 6 CHANGEABLE MESSAGE SIGNS. TWO SIGNS SHALL BE PLACED ON IL 157, 2 WEEKS PRIOR TO THE ROAD CLOSURE AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE CLOSURE. IN ADDITION, 2 SIGNS EACH, SHALL BE PLACED ON IL 140 AND IL 143 ONCE THE CLOSURE COMMENCES AND SHALL REMAIN IN PLACE FOR ITS DURATION. ALL SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. A TOTAL OF 390 CALENDAR DAYS HAS BEEN INCLUDED IN THE PLANS FOR THIS WORK.
8. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED 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 DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE 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. 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.
9. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.
10. ANY AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
11. ACCESS TO THE MAILBOX, STA. 376+45.38, THE PRIVATE ENTRANCE, STA. 376+52.76, AND THE COMMERCIAL ENTRANCE, STA. 380+24.05, SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION PLAN TO ENSURE THE ACCESS IS MAINTAINED FOR THE ENGINEER'S APPROVAL PRIOR TO THE START OF CONSTRUCTION. TWENTY-FOUR TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN ADDED TO THE PLANS FOR THIS WORK.
12. THE DISTRICT LAND ACQUISITION SECTION SHALL BE CONTACTED IF DIFFERENCES ARE IDENTIFIED BETWEEN ANY PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE ENGINEERING PLAN SHEETS AS COMPARED TO THE SAME PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE PLAT OF HIGHWAYS. QUESTIONS OR CONCERNS REGARDING THESE ITEMS SHOULD BE DIRECTED TO CLINT MARSHALL AT (618) 346-3124.
13. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE ROADWAY PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
14. IF ANY SECTION OR SUB-SECTION MONUMENT (I.E. STONE, BRASS PLUG, ALUMINUM DISK, IRON PIPE OR PIN, MAG NAIL, CROSS, ETC.), IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENT IS REMOVED OR RESURFACED OVER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE THE MONUMENT IN PLACE UNTIL AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING" HAS REFERENCED ITS LOCATION.

15. ANY MONUMENT OR PROPERTY CORNER TO BE SET SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING".
16. THE RIGHT-OF-WAY, PERMANENT EASEMENTS AND TEMPORARY EASEMENTS SHALL BE STAKED PRIOR TO ANY CONSTRUCTION OPERATIONS. STAKES SHALL BE PLACED SUCH THAT THEY ARE VISIBLE FROM EACH OTHER AND ARE SUFFICIENT SPACING TO DETERMINE THE LOCATION OF THE RIGHT-OF-WAY OR EASEMENT IN ANY LOCATION. THE RIGHT-OF-WAY SHALL BE STAKED BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING". THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR CONSTRUCTION LAYOUT.
17. THE RIGHT OF WAY OR PROPERTY CORNER IS MONUMENTED WITH A 5/8" IRON ROD, THIRTY INCHES (30") IN LENGTH, WITH IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED OR DISTURBED WHEN SETTING THE RIGHT-OF-WAY MARKER. THE RIGHT OF WAY MARKER SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT-OF-WAY BOUNDARY. THE RIGHT-OF-WAY MARKER SHALL BE A WITNESS TO THE MONUMENT.
18. A QUANTITY OF 7 TONS OF AGGREGATE SURFACE COURSE, TY A AND 4 TONS OF INCIDENTAL HMA SURFACING HAS BEEN INCLUDED IN THE PLANS FOR THE ENTRANCES LOCATED AT STA. 376+52.76 AND STA. 380+24.05 RESPECTIVELY.
19. A QUANTITY OF 440 CUY OF CHANNEL EXCAVATION HAS BEEN INCLUDED IN THE PLANS.
20. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

ADT (2019-ESTIMATED)	2550
MU%:	1.2
SU%:	5.2
20 YR. ESAL'S:	0.36

MIXTURE USE	SURFACE	BINDER	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4% @ Ndes = 70	4% @ Ndes = 70	4% @ Ndes = 70
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0	IL 9.5
FRICTION AGG	MIXTURE "C"	MIXTURE "B"	MIXTURE "C"
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA

MIXTURE USE	SHOULDERS >2.25"
AC/PG	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4% @ Ndes = 30
MIX COMPOSITION (Gradation)	IL 19.0L
FRICTION AGG	
QUALITY MGMT PROGRAM	QC/QA

PLAN QUANTITIES FOR HMA SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LBS/SQ YD/IN (59.8 kg/sq m/25mm)

COMMITMENTS

- COMMITMENTS FOR THIS PROJECT ARE AS FOLLOWS:
1. TREE REMOVAL WILL NOT OCCUR FROM APRIL 1ST THROUGH SEPTEMBER 30TH.

PERTINENT INFORMATION

- THE FOLLOWING SHALL BE NOTIFIED OF THE ROAD CLOSURE TWO WEEKS PRIOR TO THE CLOSURE:
- MADISON COUNTY TRANSIT - MARK STEYER, 618-797-4600
 - MADISON COUNTY ENGINEER - MARK GVILLO, 618-296-4540
 - LAND OWNERS - RYAN AND COURTNEY SMITH, 581 OLD US ROUTE 66, EDWARDSVILLE, IL 62025
 - HAMEL TOWNSHIP OFFICE - RICHARD GUSEWELLE, 618-633-2605
 - VILLAGE OF HAMEL - MAYOR LARRY BLOEMKER, 618-633-2484
 - EDWARDSVILLE SCHOOL DISTRICT - DR. LYNDA ANDRE, 618-656-1182
 - FIRST STUDENT - 618-692-4290

IDOT HIGHWAY STANDARDS

- 000001-07
- 001001-02
- 001006
- 280001-07
- 406201-01
- 482001-02
- 515001-03
- 542001-06
- 542401-03
- 602006-04
- 604031-03
- 630001-12
- 630101-10
- 635001-02
- 642006
- 664001-02
- 666001-01
- 667001-01
- 667101-02
- 668001-01
- 701001-02
- 701006-05
- 701311-03
- 701901-08
- 720001-01
- 720006-04
- 720011-01
- 725001-01
- 780001-05
- 781001-04
- 782006
- BLR21-9

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES AND COMMITMENTS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	2
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN	
				80% FED 20% STATE	BOX CULVERT 0010 060-2052
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	86	86	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	137	137	
20200100	EARTH EXCAVATION	CU YD	620	620	
20300100	CHANNEL EXCAVATION	CU YD	440	440	
20400800	FURNISHED EXCAVATION	CU YD	95	95	
20800150	TRENCH BACKFILL	CU YD	150	150	
* 25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	49	49	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	49	49	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	49	49	
* 25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
* 25100630	EROSION CONTROL BLANKET	SQ YD	1179	1179	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	537	537	
28000400	PERIMETER EROSION BARRIER	FOOT	250	250	
	* SPECIALTY ITEM				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN	
				80% FED 20% STATE	BOX CULVERT 0010 060-2052
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1599	1599	
28100105	STONE RIPRAP, CLASS A3	SQ YD	127	127	
28100107	STONE RIPRAP, CLASS A4	SQ YD	302	302	
28200200	FILTER FABRIC	SQ YD	302	302	
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	237	237	
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	30	30	
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	7	7	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	24	24	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1011	1011	
40600990	TEMPORARY RAMP	SQ YD	45	45	
40603085	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70	TON	358	358	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	111	111	
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	94	94	

REV. - MS

USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF
QUANTITIES**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	3
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN	
				80% FED 20% STATE	BOX CULVERT 0010 060-2052
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	208	208	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	7	7	
44000100	PAVEMENT REMOVAL	SQ YD	208	208	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1232	1232	
44004250	PAVED SHOULDER REMOVAL	SQ YD	240	240	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	112	112	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	240	240	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	160	160	
50200100	STRUCTURE EXCAVATION	CU YD	32	32	
50300225	CONCRETE STRUCTURES	CU YD	13.1	13.1	
50500505	STUD SHEAR CONNECTORS	EACH	128	128	
50800105	REINFORCEMENT BARS	POUND	31140	31140	
51500100	NAME PLATES	EACH	1	1	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN	
				80% FED 20% STATE	BOX CULVERT 0010 060-2052
52200105	FURNISHING SOLDIER PILES (W SECTION)	FOOT	303	303	
52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	962	962	
52200250	UNTREATED TIMBER LAGGING	SQ FT	402	402	
54003000	CONCRETE BOX CULVERTS	CU YD	150.7	150.7	
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	115	115	
54213453	END SECTIONS 18"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	13	13	
60206600	CATCH BASINS, TYPE B, TYPE 7 GRATE	EACH	2	2	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	412.5	412.5	
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	50	50	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	671	671	
63500105	DELINEATORS	EACH	2	2	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	1080	1080	
	* SPECIALTY ITEM				

REV. - MS

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

**SUMMARY OF
QUANTITIES**

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	4
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN	
				BOX CULVERT	060-2052
				80% FED 20% STATE	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	5		5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4		4
67100100	MOBILIZATION	L SUM	1		1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1		1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	600		600
70300100	SHORT TERM PAVEMENT MARKING	FOOT	54		54
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	18		18
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1867		1867
*72000100	SIGN PANEL - TYPE 1	SQ FT	20		20
*72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1
*72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	18		18
*72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4
*72900100	METAL POST - TYPE A	FOOT	10		10
*73000100	WOOD SIGN SUPPORT	FOOT	50		50
	* SPECIALTY ITEM				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				URBAN	
				BOX CULVERT	060-2052
				80% FED 20% STATE	
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1867		1867
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8		8
*78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	10		10
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8		8
*A2007616	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED	EACH	4		4
*B2000416	TREE, ACER GRISEUM (PAPERBARK MAPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	4		4
*B2001616	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	4		4
*D2001524	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 2' HEIGHT, BALLED AND BURLAPPED	EACH	4		4
X0323265	REMOVE EXISTING RIPRAP	SQ YD	109		109
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	132		132
X6660445	RIGHT OF WAY AND PROPERTY CORNERS	EACH	11		11
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	623		623

REV. - MS

USER NAME = manntm	DESIGNED -	REVISED -
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PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF
QUANTITIES**

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	5
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

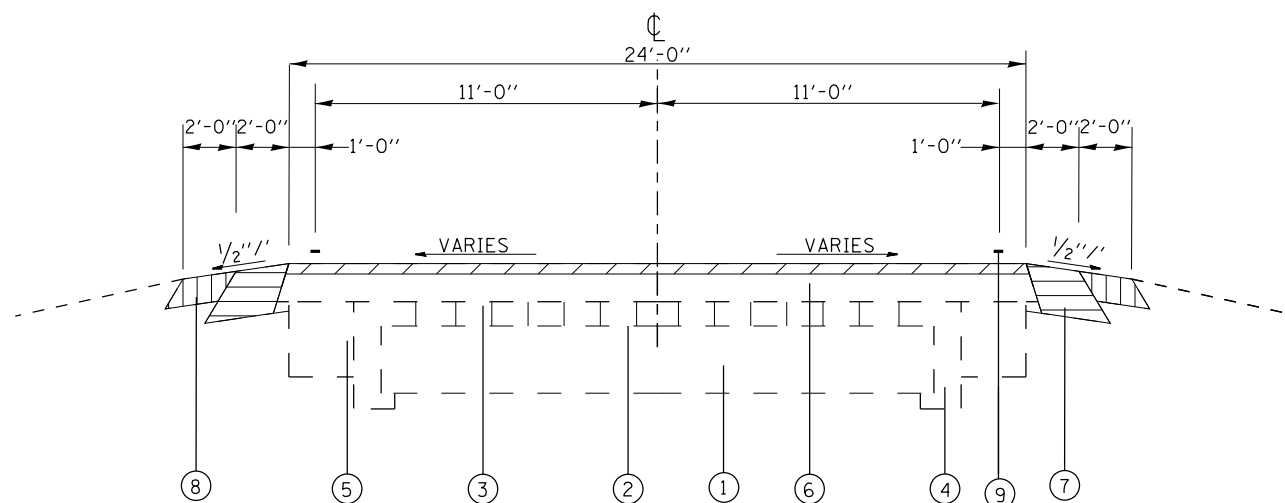
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				URBAN
				BOX CULVERT 0010 060-2052
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0016702	DETOUR SIGNING	L SUM	1	1
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	618	618
∅ Z0076600	TRAINEES	HOUR	1000	1000
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000

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∅ 0042

LEGEND

- ① EXISTING CONCRETE BASE, 8"
- ② EXISTING MASTIC CUSHION, 1"
- ③ EXISTING BRICK PAVEMENT, 2 "
- ④ EXISTING CONCRETE RETAINER, 1'-3"
- ⑤ EXISTING PC CONCRETE BASE COURSE, 8"
- ⑥ EXISTING BITUMINOUS RESURFACING, (VAR. 5" TO 7 ")
- ⑦ EXISTING HMA SHOULDER
- ⑧ EXISTING AGGREGATE SHOULDERS
- ⑨ EXISTING PAVEMENT MARKING, LINE 4"
- ⑩ PROPOSED HMA PAVEMENT (FULL DEPTH) - 11"
- ⑪ PROPOSED SUBBASE GRANULAR MAT'L, TYPE A - VARIES 20 3/4" TO 25"
- ⑫ PROPOSED HMA SHOULDER - 8"
- ⑬ PROPOSED AGGREGATE SHOULDER TYPE B - 8"
- ⑭ PROPOSED PAVEMENT MARKING, LINE 4"
- ⑮ PROPOSED HMA SURFACE COURSE, MIX "C", N70 - VARIES 1 1/2" TO 2 1/2"
- ⑯ PROPOSED HMA BINDER COURSE, TL-19.0 N70 - VARIES 1" TO 13 1/3"

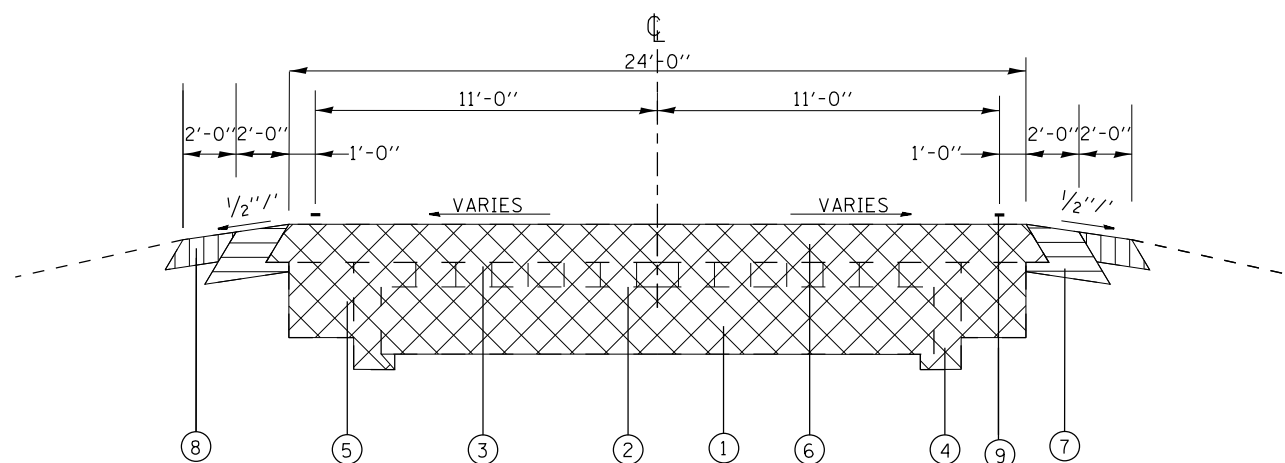


EXISTING TYPICAL SECTION

STA. 375+35.00 TO STA. 377+15.00
 STA. 377+80.00 TO STA. 380+75.02

REMOVAL ITEMS:

- HMA SURFACE REMOVAL - 1 1/2"
- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- EARTH EXCAVATION (AGGREGATE SHOULDER)



EXISTING TYPICAL SECTION

STA. 377+15.00 TO STA. 377+80.00

MODEL: \\MODELNAME
 FILE NAME: \\FILENAME
 PROJECT: \\PROJECTNAME
 OFFICE: \\OFFICE
 DATE: \\DATE

USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED
 TYPICAL SECTIONS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

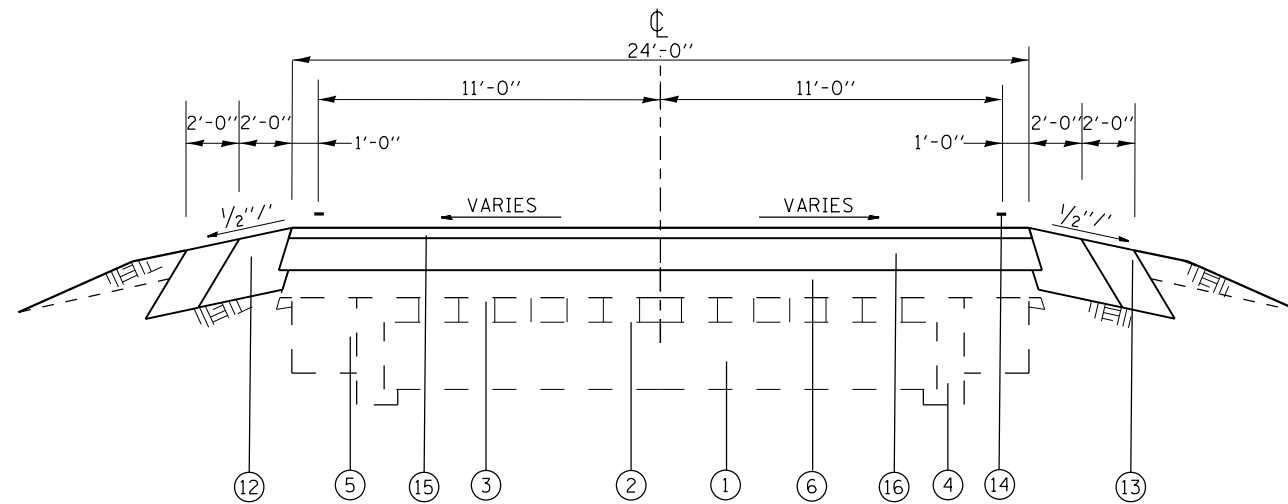
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	7
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

LEGEND

- ① EXISTING CONCRETE BASE, 8"
- ② EXISTING MASTIC CUSHION, 1"
- ③ EXISTING BRICK PAVEMENT, 2 "
- ④ EXISTING CONCRETE RETAINER, 1'-3"
- ⑤ EXISTING PC CONCRETE BASE COURSE, 8"
- ⑥ EXISTING BITUMINOUS RESURFACING, (VAR. 5" TO 7 ")
- ⑦ EXISTING HMA SHOULDER
- ⑧ EXISTING AGGREGATE SHOULDERS
- ⑨ EXISTING PAVEMENT MARKING, LINE 4"
- ⑩ PROPOSED HMA PAVEMENT (FULL DEPTH) - 11"
- ⑪ PROPOSED SUBBASE GRANULAR MAT'L, TYPE A - VARIES 20 3/4" TO 25"
- ⑫ PROPOSED HMA SHOULDER - 8"
- ⑬ PROPOSED AGGREGATE SHOULDER TYPE B - 8"
- ⑭ PROPOSED PAVEMENT MARKING, LINE 4"
- ⑮ PROPOSED HMA SURFACE COURSE, MIX "C", N70 - VARIES 1 1/2" TO 2 1/2"
- ⑯ PROPOSED HMA BINDER COURSE, IL-19.0, N70 - VARIES 1" TO 13 1/3"

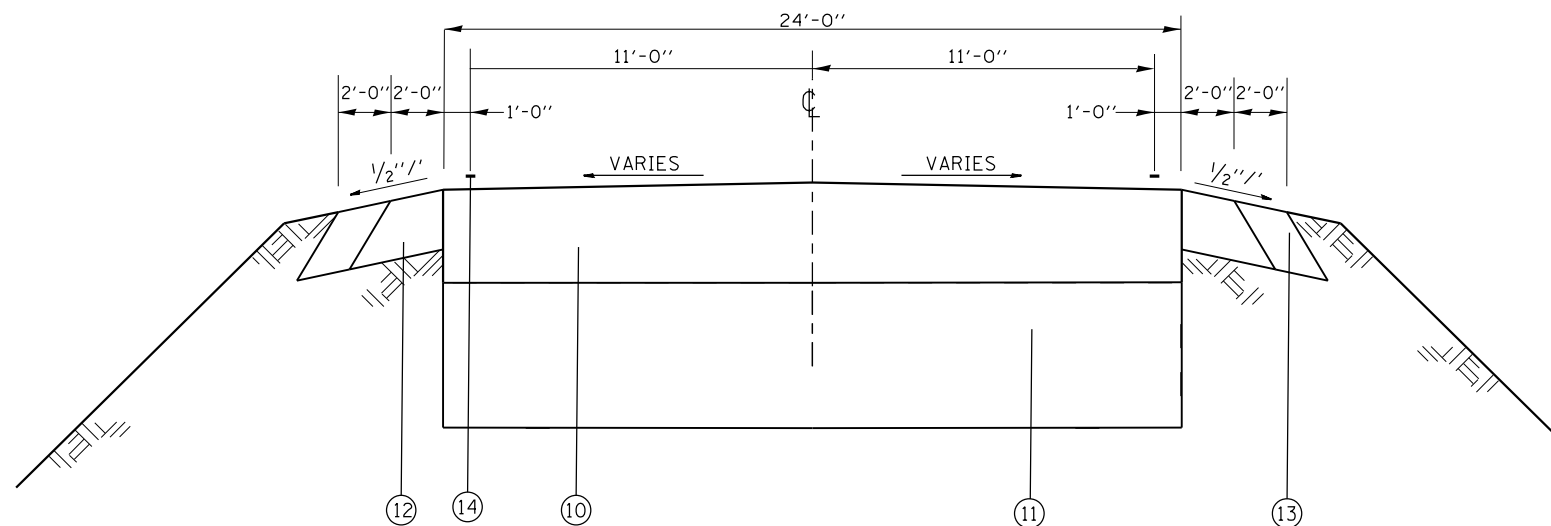
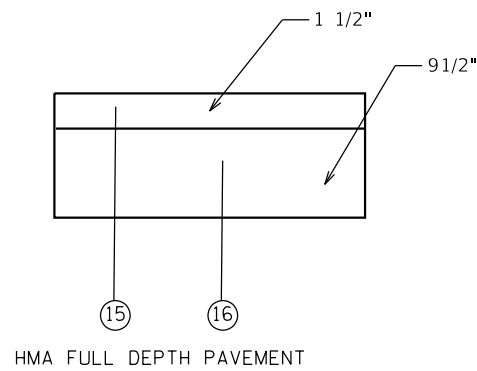
NOTES:

- 1. MINIMUM BINDER THICKNESS = 1"
- 2. SEE TABLE FOR PROPOSED SLOPES
- 3. BITUMINOUS MATERIAL TACK COAT WILL BE APPLIED ACCORDING TO SECTION 406 AND 407 OF THE STANDARD SPECIFICATIONS. SEE RESURFACING SCHEDULE FOR APPLICATION RATES.



PROPOSED TYPICAL SECTION

STA. 375+35.00 TO STA. 377+15.00
 STA. 377+80.00 TO STA. 380+75.02



PROPOSED TYPICAL SECTION

STA. 377+15.00 TO STA. 377+80.00

STATIONS				PROPOSED SLOPES	
STA.	375+35.00	TO	STA.	376+13.40	MATCH EXISTING
STA.	376+13.40	TO	STA.	376+33.31	TRANSITION TO 3/16"/FT
STA.	376+33.31	TO	STA.	379+25.00	3/16"/FT
STA.	379+25.00	TO	STA.	379+50.00	TRANSITION TO EXISTING SLOPES
STA.	379+50.00	TO	STA.	380+75.02	MATCH EXISTING

MODEL: \\MODELNAME
 FILE NAME: \\FILENAME
 PROJECT: \\PROJECT
 DRAWING: \\DRAWING
 DATE: 10/19/2018

USER NAME = manntm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED
 TYPICAL SECTIONS**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	8
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE									
STATIONING	LT/RT	SPBGR TYPE A 6 FOOT POSTS FOOT	TBT -TY 1 (SPECIAL) TANGENT EACH	STRONG POST GUARDRAIL ATTACHED TO CULVERT FOOT	GUARDRAIL REMOVAL FOOT	TERMINAL MRKR DIRECT APPLIED EACH	GUARDRAIL REFLECTORS TYPE B EACH	COMMENT	
376+25.00	LT								
376+41.00	LT		1		52.0	1		BEGINNING LON POINT - STA. 376+82.50	
377+20.00 TO 377+50.00	LT	30.0			30.0		1		
377+50.00 TO 377+75.00	LT			25.0	25.0		1		
377+75.00 TO 379+20.00	LT	145.0			145.0		3		
379+20.00	LT		1		52.0	1		ENDING LON POINT - STA. 379+57.5	
375+42.00	RT		1		52.0	1		BEGINNING LON POINT - STA. 375+54.5	
375+92.00 TO 377+42.00	RT	150.0			150.0		3		
377+42.00 TO 377+67.00	RT			25.0	25.0		1		
377+67.00 TO 378+54.50	RT	87.5			87.5		1		
378+54.50	RT		1		52.0	1		ENDING LON POINT - STA. 378+92	
TOTAL		412.5	4	50	671	4	10		

SCHEDULE OF EARTHWORK QUANTITIES

STATIONING	EARTH EXCAVATION CU YD	EMBANKMENT CU YD (1)	ADJUSTED EARTH EXCAVATION CU YD (2)	FURNISHED EXCAVATION CU YD
375+35 TO 375+50	1.6	2.4	1.12	-1.28
375+50 TO 375+75	6.5	7.5	4.55	-2.95
375+75 TO 376+00	9.6	9.0	6.72	-2.28
376+00 TO 376+13	7.7	5.6	5.39	-0.21
376+13 TO 376+62	39.6	18.5	27.72	9.22
376+62 TO 376+75	12.3	5.6	8.61	3.01
376+75 TO 377+00	21.4	16.6	14.98	-1.62
377+00 TO 377+25	26.0	17.2	18.2	1.00
377+25 TO 377+58	232.0	147.1	162.4	15.30
377+58 TO 378+00	232.0	167.6	162.4	-5.20
378+00 TO 378+25	1.7	33.4	1.19	-32.21
378+25 TO 378+50	1.8	28.1	1.26	-26.84
378+50 TO 378+75	1.8	20.7	1.26	-19.44
378+75 TO 379+00	1.7	12.8	1.19	-11.61
379+00 TO 379+25	1.7	8.3	1.19	-7.11
379+25 TO 379+50	3.5	7.5	2.45	-5.05
379+50 TO 379+75	3.9	6	2.73	-3.27
379+75 TO 380+00	1.6	3.7	1.12	-2.58
380+00 TO 380+25	0.7	1.3	0.49	-0.81
380+25 TO 380+50	3.1	0.7	2.17	1.47
380+50 TO 380+75	3.1	0.4	2.17	1.77
380+75 TO 381+00	0.4	0.1	0.28	0.18
SUB-TOTAL	614	520	430	-91
TOTAL	620	520	430	95

NOTES:

- 1- NO SHRINKAGE FACTOR APPLIED TO THE EMBANKMENT QUANTITY
- 2- A 30% EXPANSION FACTOR WAS USED TO ADJUST THE EARTH EXCAVATION
- 3- EXCAVATION REQUIRED FOR AGGREGATE SHOULDER IS MEASURED AND PAID FOR AS EARTH EXCAVATION

RIPRAP SCHEDULE				
STATIONING	LT/RT	REMOVE EXISTING RIPRAP SQ YD	STONE RIPRAP CL A3 SQ YD	
376+60.50	30.8' LT		7.8	
377+64.00	35.3' LT	92.1		
377+96.70	23.9' LT		42.8	
377+52.20	30.7' RT			
379+98.20	24.4' RT	16.7	16.7	
SUBTOTAL		108.8	67.3	
TOTAL		109.0	127.0	

SEE BRIDGE PLANS FOR ADDITIONAL RIPRAP QUANTITIES.

SHOULDER SCHEDULE					
STATIONING	PAVED SHOULDER REMOVAL 8" SQ YD	SHOULDER RUMBLE STRIPS 8" FOOT	HMA SHOULDER 8" SQ YD	AGGREGATE SHOULDER TYPE B -8" TONS	BITUMINOUS MATERIAL TACK COAT POUND(1)
375+35.00 TO 375+95.00	26.7	120.0	26.7	12.4	6.0
375+95.00 TO 377+15.00	53.3	240.0	53.3	24.9	12.0
377+15.00 TO 377+33.00	8.0	36.0	8.0	3.7	1.8
377+33.00 TO 377+75.00	18.7	84.0	18.7	8.7	4.2
377+75.00 TO 377+80.00	2.2	10.0	2.2	1.0	0.5
377+80.00 TO 380+08.00	101.3	456.0	101.3	47.3	22.8
380+08.00 TO 380+75.00	29.8	134.0	29.8	13.9	6.7
TOTAL	240.0	1080.0	240.0	112.0	54.0(2)

1. THE FOLLOWING APPLICATION RATE WAS USED:
BITUMINOUS MATERIAL TACK COAT: 0.025 LBS/SQ FT
2. NOT A TOTAL QUANTITY. SEE RESURFACING SCHEDULE.

RESURFACING SCHEDULE										
STATIONING	PAVEMENT REMOVAL (22.5') SQ YD	PAVEMENT REMOVAL (20") SQ YD	HMA SURF. REM., 1 1/2" SQ YD	HMA PAVT. FULL DEPTH- 11" SQ YD	BIT. MAT'L. TACK COAT (FD PAVT) POUND(2)	SUBBASE GRAN. MAT'L. TYPE A TON	HMA BINDER CSE. (VARIES) TON	BIT. MAT'L. TACK COAT (RESURF.) POUND(2)	HMA SURF. CSE. (1 1/2" AND VARIES) TON	LONGITUDINAL JOINT SEALANT FOOT(1)
375+35.00 TO 375+95.00			320.0				109.2	72.0	17.2	60.0
375+95.00 TO 377+15.00								288.0	26.9	120.0
377+15.00 TO 377+33.00	48.0			48.0	21.6	63.9				36.0
377+33.00 TO 377+75.00		112.0			50.4	106.1				84.0
377+75.00 TO 377+93.00	48.0			48.0	21.6	67.0				36.0
377+93.00 TO 380+08.00							248.6	516.0	48.2	215.0
380+08.00 TO 380+75.00								80.4	18.4	67.0
SUBTOTAL	96.0	112.0	1072.0	208.0	93.6	237.0	357.8	956.4	110.6	618.0
ROUNDED TOTAL	208		1072	208	94	237	358	957(4)	111	618.0

RESURFACING NOTES:

1. LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE FOLLOWING LIFTS:
-FULL-DEPTH HMA PAVEMENT PORTION - UNDER THE SURFACE LIFT AND UNDER THE TOP BINDER LIFT
-ON THE OVERLAY PORTION- UNDER THE SURFACE LIFT
2. THE FOLLOWING APPLICATION RATES WERE USED:
-BITUMINOUS MATERIAL TACK COAT: 0.025 LBS/SQ FT
-SUBBASE GRANULAR MATERIAL: .05833 TONS/SQ YD/IN
3. TEMPORARY RAMPS SHALL BE PLACED AT THE BEGINNING AND END STATIONS OF RESURFACING LIMITS.
A QUANTITY OF 45 SQUARE YARDS HAS BEEN INCLUDED IN THE PLANS.
4. NOT A TOTAL QUANTITY. SEE SHOULDER SCHEDULE.

DRAINAGE SCHEDULE								
STATIONING	LT/RT	END SECTION 18" PIPE EACH	PIPE CULVERT CL A, TY 2 18" DIA FOOT	CATCH BASIN TYPE B TY 7 GRATE EACH	PIPE CULVERT REMOVAL FOOT	DELINEATORS EACH	TRENCH BACKFILL CUY	FLOWLINE ELEVATIONS
376+25.00	LT		35		32		49	US = 528.38; DS = 526.258
376+25.00	LT							528.42
376+62.00	LT							526.29
377+00.00	RT			1			2	SEE STANDARD 602006 AND X-SECTIONS
377+00.00 TO 377+45.00	RT		40		32.0		49	SEE STANDARD 602006 AND PROPOSED PROFILE
377+55.00 TO 378+00.00	RT		40		32.0		48	SEE STANDARD 602006 AND PROPOSED PROFILE
378+00.00	RT			1			2	SEE STANDARD 602006 AND X-SECTIONS
377+24.00 TO 377+54.00	LT				32.0			
377+66.00 TO 377+96.00	LT				32.0			
TOTAL		2	115	2	160	2	150	

SIGN SCHEDULE							
STATIONING	LT/RT	REMOVE SIGN PANEL TYPE 1 SQ FT	REMOVE SIGN PANEL ASSEMBLY - TY A EACH	SIGN PANEL TYPE 1 SQ FT	WOOD SIGN SUPPORT FOOT	METAL POST TYPE A FOOT	COMMENT
377+04.00	21.25' RT	6.0					WEIGHT LIMIT SIGN (24X36)
377+18.50	20.5' RT	1.0		1.0		10.0	STRUCTURE NUMBER (1X1)
378+09.25	20' RT	5.0		5.0	14.0		SPEED LIMIT 35 MPH (24X30)
378+07.25	18' LT	6.0					WEIGHT LIMIT SIGN (24X36)
378+50.00	26.5' LT			1	9.0	18.0	EDWARDSVILLE 9 (18X72)
378+50.00	26.5' LT				5.0	18.0	SPEED LIMIT 45 MPH (24X30)
TOTAL		18.0	1	20.0	50.0	10.0	

MODEL: \\MODELNAME; FILE NAME: \\FILENAME; PROJECT: \\PROJECTNAME; DRAWING: \\DRAWINGNAME; SHEET: \\SHEETNUMBER; DATE: \\DATE

USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	9
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL SCHEDULE

STATIONING			LEFT							RIGHT										
			(PERMANENT SEEDING CLASS 2A ACRE)	MULCH METHOD 2 ACRE	NITROGEN FERTILIZER NURTRIEN POUND	PHOSPHORUS FERTILIZER NURTRIEN POUND	POTASSIUM FERTILIZER NURTRIEN POUND	EROSION CONTROL BLANKET SQ YD	TEMPORARY EROSION CONTROL SEEDING POUND	TEMPORARY EROSION CONTROL BLANKET SQ YD	INLET AND PIPE PROTECTION EACH	(PERMANENT SEEDING CLASS 2A ACRE)	MULCH METHOD 2 FOOT	NITROGEN FERTILIZER NURTRIEN POUND	PHOSPHORUS FERTILIZER NURTRIEN POUND	POTASSIUM FERTILIZER NURTRIEN POUND	EROSION CONTROL BLANKET SQ YD	TEMPORARY EROSION CONTROL SEEDING POUND	TEMPORARY EROSION CONTROL BLANKET SQ YD	INLET AND PIPE PROTECTION EACH
375+35.00	TO	375+50.00	0.003	0.003	0.2	0.2	0.2	2.7	8.4		0.006	0.01	0.5	0.5	0.5	6.0				
375+50.00	TO	375+75.00	0.008	0.008	0.8	0.8	0.8	8.4	8.2		0.020	0.02	1.8	1.8	1.8	19.5				18.9
375+75.00	TO	376+00.00	0.009	0.009	0.8	0.8	0.8	9.0	40.9	1 @ 376+00	0.019	0.02	1.7	1.7	1.7	18.8				90.9
376+00.00	TO	376+25.00	0.006	0.006	0.5	0.5	0.5	5.7	43.5		0.009	0.01	0.8	0.8	0.8	9.4				45.7
376+25.00	TO	376+50.00	0.019	0.019	1.7	1.7	1.7	27.4	19.3		0.027	0.03	2.5	2.5	2.5	132.8				132.8
376+50.00	TO	376+75.00	0.006	0.006	0.5	0.5	0.5	93.6	5.7	1 @ 376+75	0.007	0.01	0.6	0.6	0.6	33.3				6.9
376+75.00	TO	377+00.00	0.008	0.008	0.7	0.7	0.7	27.4	8.0		0.009	0.01	0.8	0.8	0.8	43.1				8.9
377+00.00	TO	377+25.00	0.016	0.016	1.4	1.4	1.4	38.8	15.7	1 @ 377+12	0.017	0.02	1.6	1.6	1.6	83.4				17.2
377+25.00	TO	377+50.00	0.017	0.017	1.6	1.6	1.6	76.2	17.4		0.017	0.02	1.6	1.6	1.6	84.3				17.4
377+50.00	TO	377+75.00	0.018	0.018	1.6	1.6	1.6	87.1	18.0		0.014	0.01	1.3	1.3	1.3	67.7				14.0
377+75.00	TO	378+00.00	0.015	0.015	1.3	1.3	1.3	70.2	14.5		0.019	0.02	1.7	1.7	1.7	91.1				18.8
378+00.00	TO	378+25.00	0.009	0.009	0.8	0.8	0.8	41.2	8.5		0.019	0.02	1.7	1.7	1.7	90.4				18.7
378+25.00	TO	378+50.00	0.008	0.008	0.7	0.7	0.7	7.6	1.7		0.019	0.02	1.7	1.7	1.7	90.3				18.7
378+50.00	TO	378+75.00	0.006	0.006	0.5	0.5	0.5	6.1	0.19		0.019	0.02	1.7	1.7	1.7	18.8				90.8
378+75.00	TO	379+00.00	0.004	0.004	0.4	0.4	0.4	4.1	0.19		0.019	0.02	1.7	1.7	1.7	19.0				92.0
379+00.00	TO	379+25.00	0.003	0.003	0.3	0.3	0.3	3.4	1.7		0.019	0.02	1.7	1.7	1.7	19.3				93.4
379+25.00	TO	379+50.00	0.004	0.004	0.4	0.4	0.4	4.4	0.20		0.020	0.02	1.8	1.8	1.8	19.5				94.6
379+50.00	TO	379+75.00	0.006	0.006	0.5	0.5	0.5	5.9	0.19		0.019	0.02	1.7	1.7	1.7	18.8				
379+75.00	TO	380+00.00	0.005	0.005	0.5	0.5	0.5	5.0	0.18		0.018	0.02	1.6	1.6	1.6	17.8				
380+00.00	TO	380+25.00	0.007	0.007	0.6	0.6	0.6	7.0	0.07		0.027	0.03	2.4	2.4	2.4	26.6				
380+25.00	TO	380+50.00	0.004	0.004	0.3	0.3	0.3	3.6	0.009		0.009	0.01	0.8	0.8	0.8	8.6				
380+50.00	TO	380+75.00	0.002	0.002	0.2	0.2	0.2	1.8	0.004		0.004	0.00	0.4	0.4	0.4	4.2				
SUBTOTAL			0.18	0.18	16.4	16.4	16.4	461.8	181.8	355.9	3.0	0.35	31.9	31.9	31.9	716.4	354.3	1242.7	1.0	
ROUNDED TOTAL			0.25	0.25	17	17	17	462.0	182.0	356.0	3.0	0.5	32.0	32.0	32.0	717.0	355.0	1243	1.0	

EROSION CONTROL NOTES:

- ALL ERODIBLE BARE EARTH WILL BE TEMPORARILY SEEDED ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE WITHIN THE CONTRACT LIMITS. EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.
- A QUANTITY OF 250 FEET OF PERIMETER EROSION BARRIER HAS BEEN INCLUDED IN THE PLANS FOR EROSION CONTROL IN THE CREEK AREA.
- WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- BARE AND SPARSELY VEGETATED GROUND, IN HIGHLY ERODIBLE AREAS, AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION.
- PERMANENT SEEDING (SEEDING, CLASS 2A) WILL BE INSTALLED PER IDOT SPECIFICATIONS. FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.
- ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING THE FINISHED GRADING.
- STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCE WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS.
- INLET AND PIPE PROTECTION WILL BE PROVIDED FOR CULVERTS WITHIN THE PROJECT LIMITS.
- ALL MAINTENANCE OF EROSION CONTROL SYSTEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND ACCEPTED BY IDOT AFTER FINAL INSPECTION. ALL LOCATIONS WHERE VEHICLES ENTER AND EXIT THE CONSTRUCTION SITE AND ALL OTHER AREAS SUBJECT TO EROSION SHALL ALSO BE INSPECTED.
- TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER THEIR USE IS NO LONGER NEEDED. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE TEMPORARY EROSION CONTROL SYSTEM.

RIGHT-OF-WAY SCHEDULE

ROUTE	STATION	OFFSET	DIRECTION	FURNISHING AND ERECTING ROW MARKERS EACH	ROW AND PROPERTY CORNERS EACH
IL 157	375+63.59	35.04'	LT	1	
IL 157	377+50.00	39.56'	LT	1	1
IL 157	377+60.00	44.56'	LT	1	1
IL 157	378+25.00	44.61'	LT	1	1
IL 157	378+50.00	29.62'	LT	1	1
IL 157	376+83.02	24.37'	RT		1
IL 157	376+83.02	31.87'	RT		1
IL 157	377+25.00	40.12'	RT		1
IL 157	377+44.05	40.46'	RT		1
IL 157	377+85.00	40.36'	RT		1
IL 157	378+10.00	30.30'	RT		1
IL 157	378+10.00	25.30'	RT		1
TOTAL QUANTITY				5	11

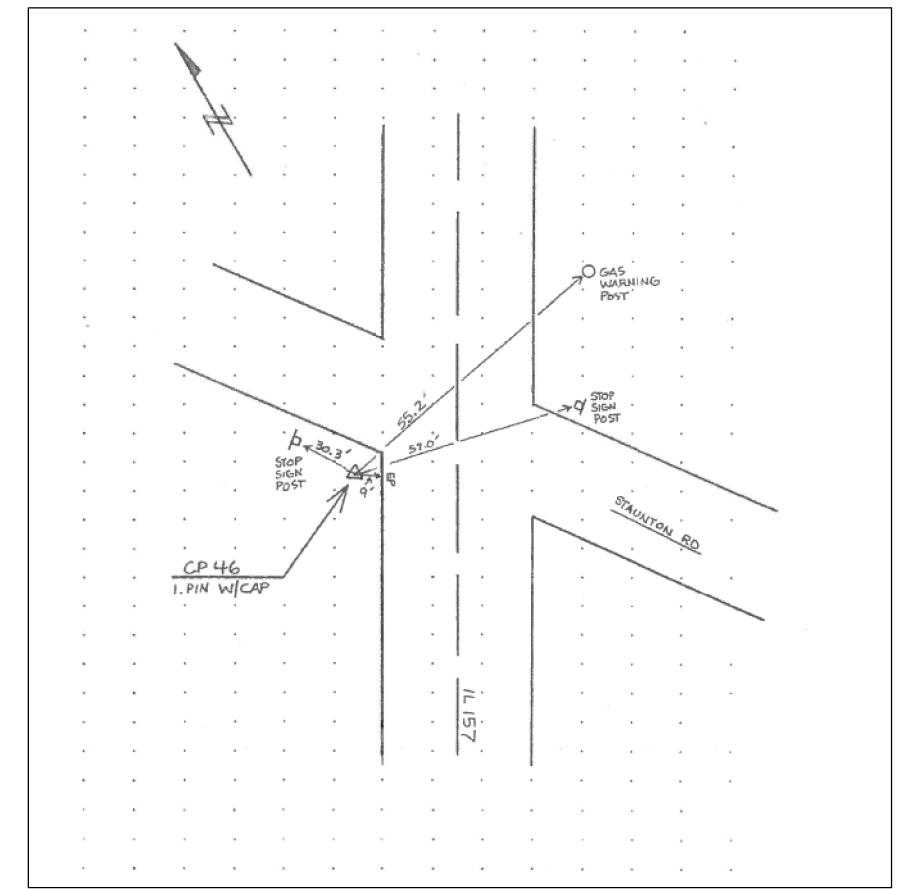
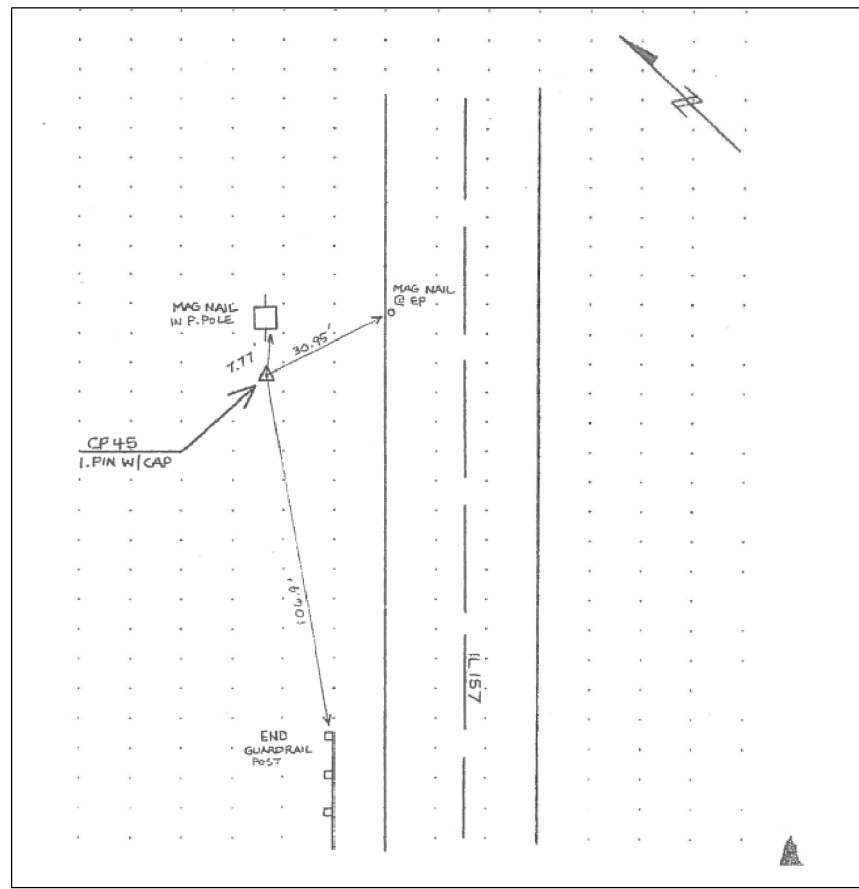
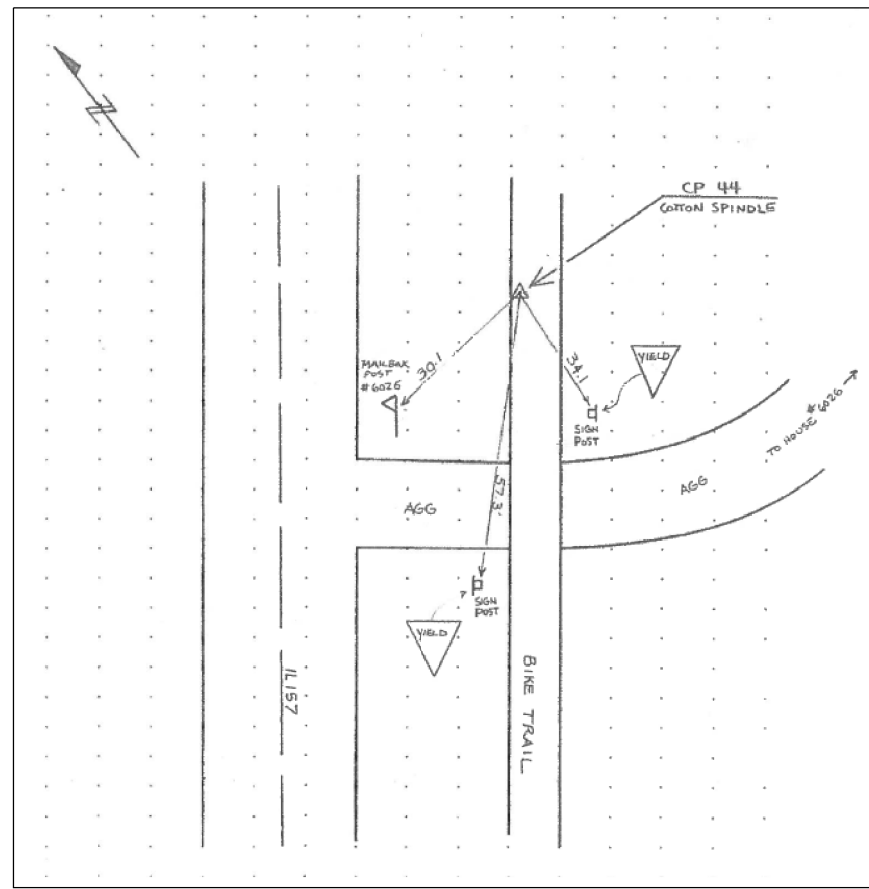
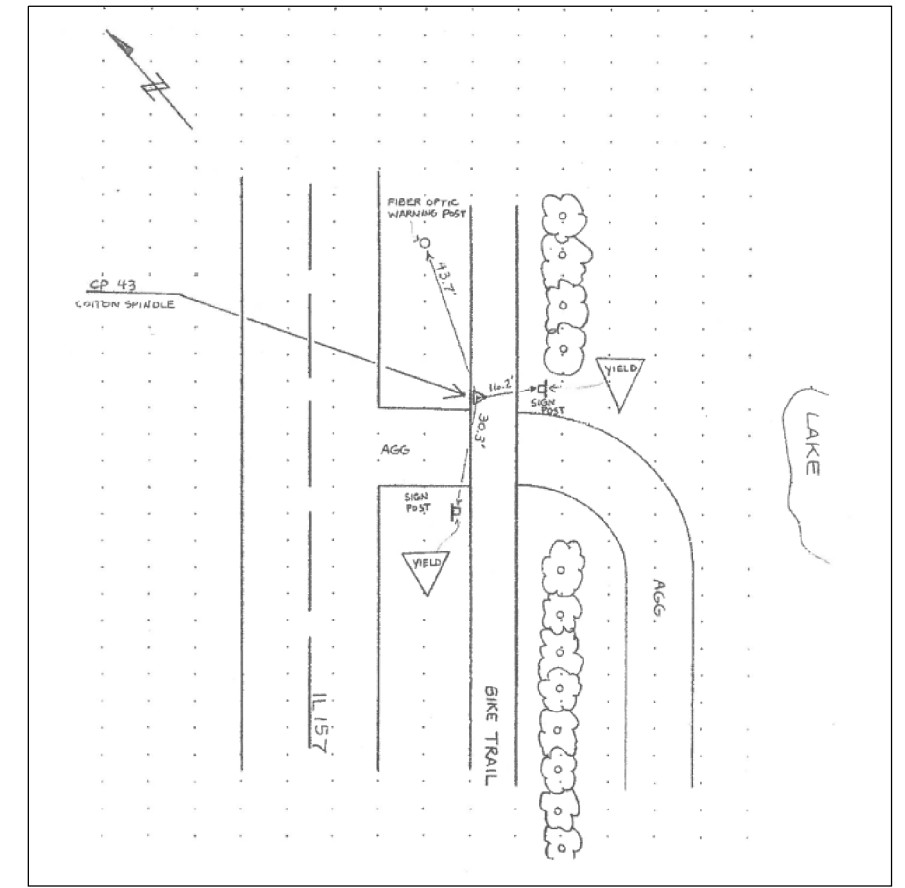
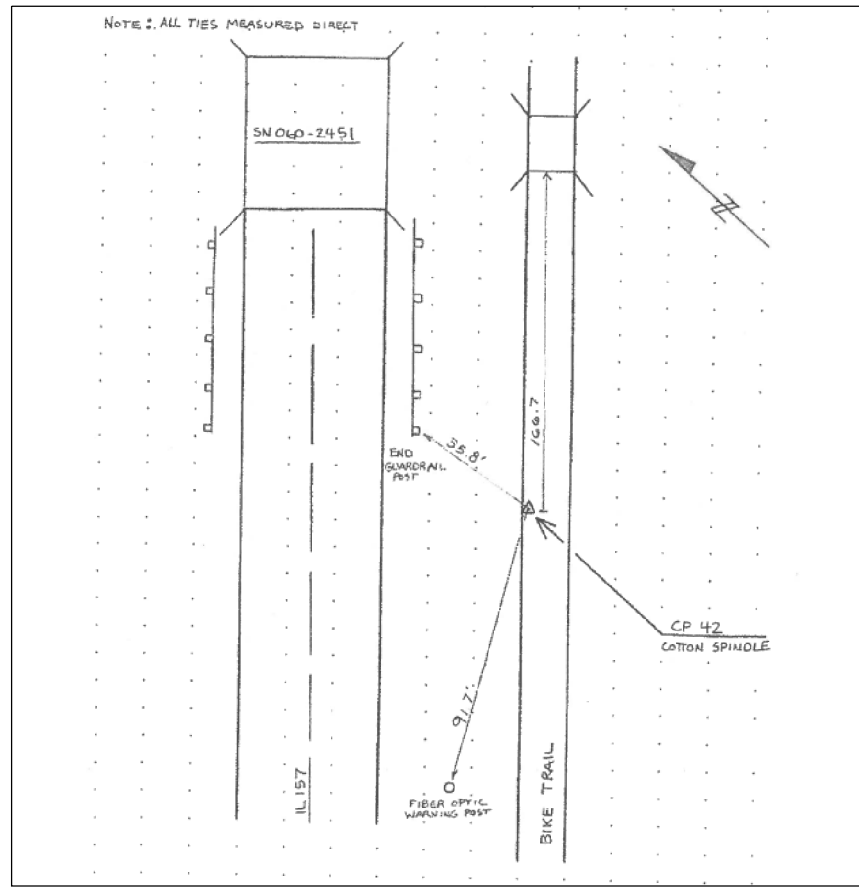
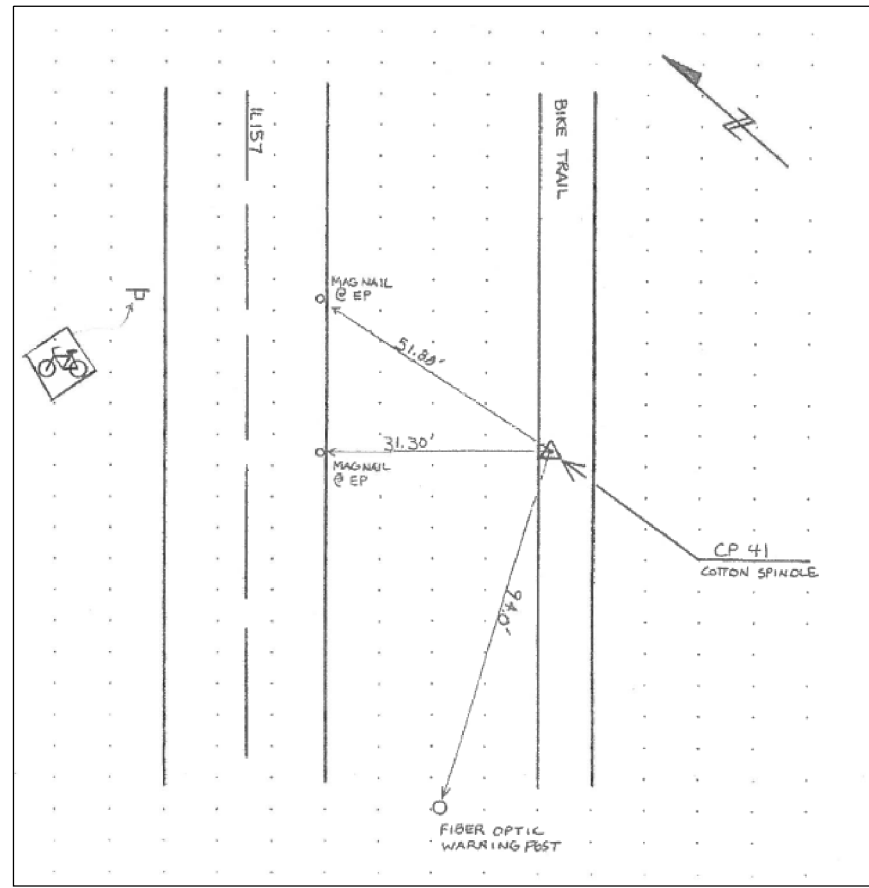
TREE REMOVAL SCHEDULE

STATIONING	LT/RT	TREE REMOVAL (6 TO 15 UNITS DIAMETER) UNIT	TREE REMOVAL (OVER 15 UNITS DIAMETER) UNIT	TREE, CRATAEGUS CRUGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED EACH	TREE, ACER GRISEUM (PAPERBARK MAPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED EACH	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 2' HEIGHT, BALLED AND BURLAPPED EACH	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED EACH
377+42.25	33.3' LT		32	1			
377+66.30	31.1' LT	12			1		
377+68.70	40.2' LT	10				1	
377+70.80	42.7' LT	7					1
377+71.40	40.8' LT	7				1	
377+71.60	43.5	10					1
377+75.30	46.1' LT		18				1
377+76.20	41.7' LT		20			1	
377+78.60	44.2' LT		18				1
377+80.20	36.9' LT	12		1			
377+81.70	34.0' LT		17	1			
378+13.20	28.6' LT		16		1		
378+14.00	28.6' LT		16			1	
378+20.10	30.3' LT	12			1		
378+23.30	31.1' LT	8		1			
378+30.40	27.8' LT	8			1		
TOTAL		86	137	4	4	4	4

IF FOR ANY REASON THE SPECIES LISTED ABOVE CANNOT BE FOUND IN THE NURSERIES, THE RESIDENT ENGINEER IS ALLOWED TO MAKE SUBSTITUTINS.

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PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -					770	66-BR	MADISON	41	10
PLOT DATE = 10/19/2018	CHECKED -	REVISED -		SCALE: NONE	SHEET 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 66-76			
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



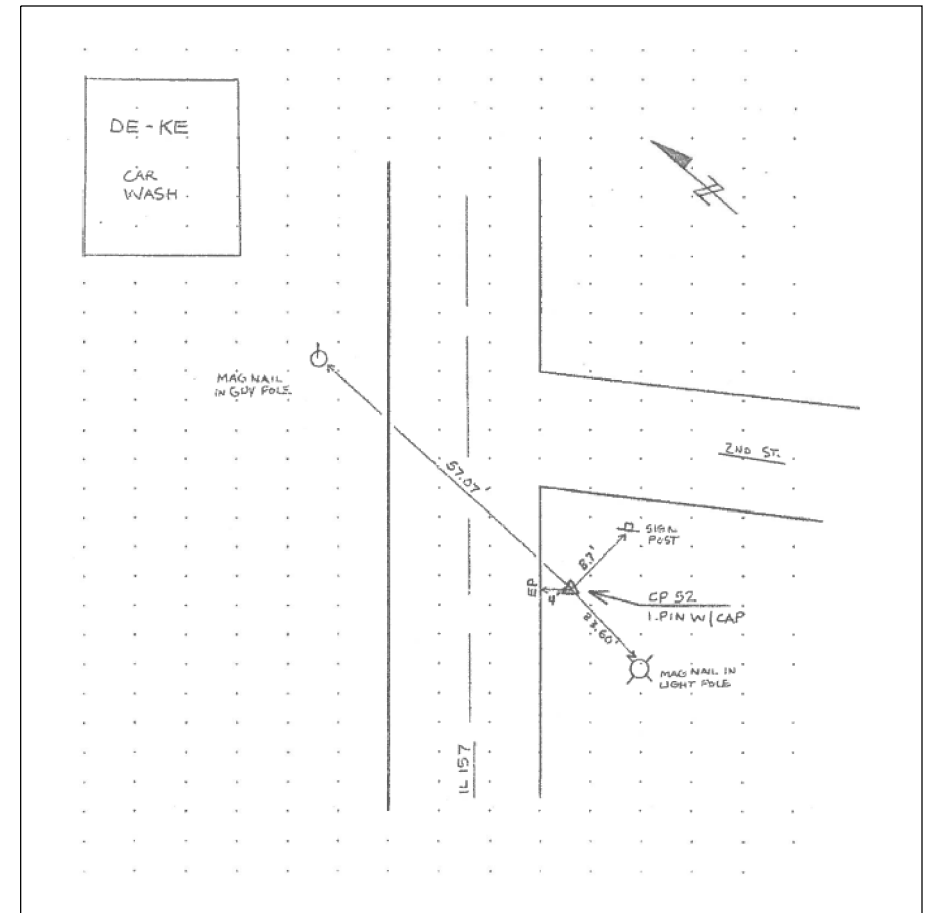
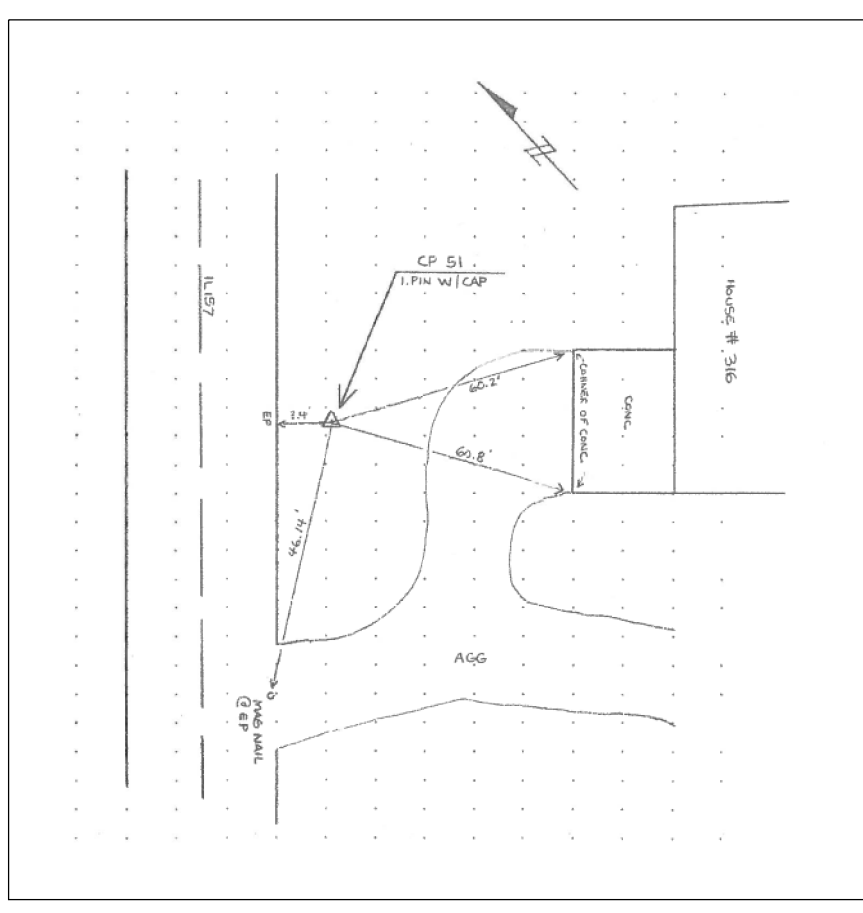
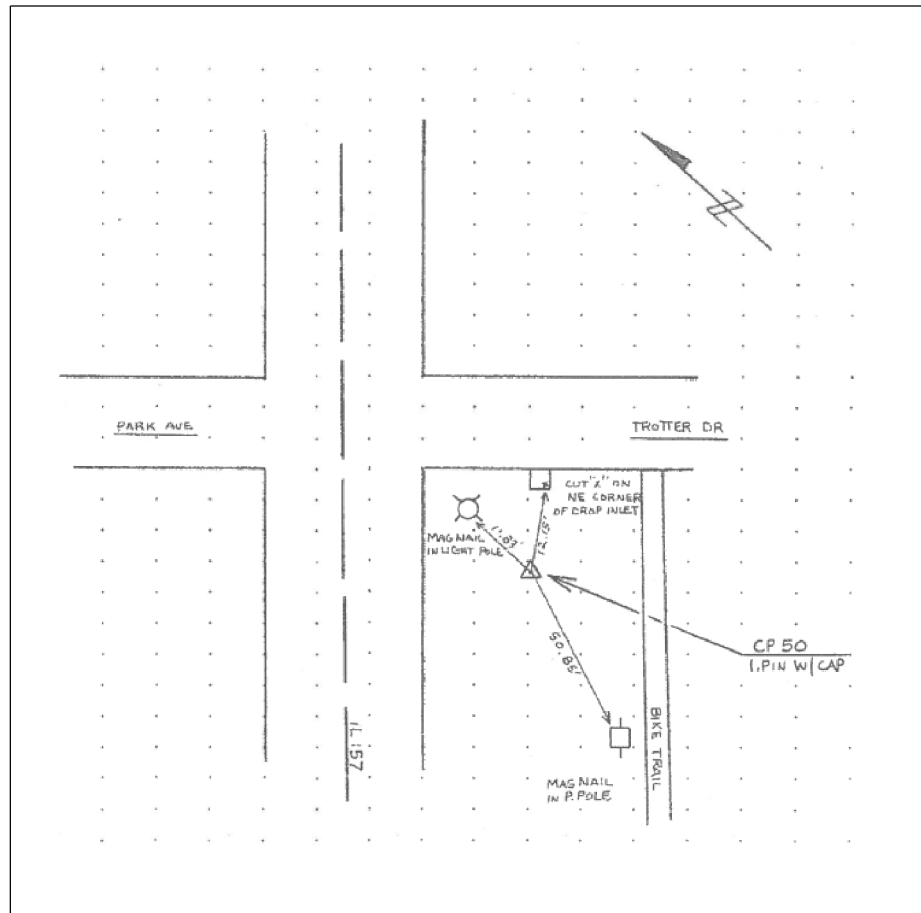
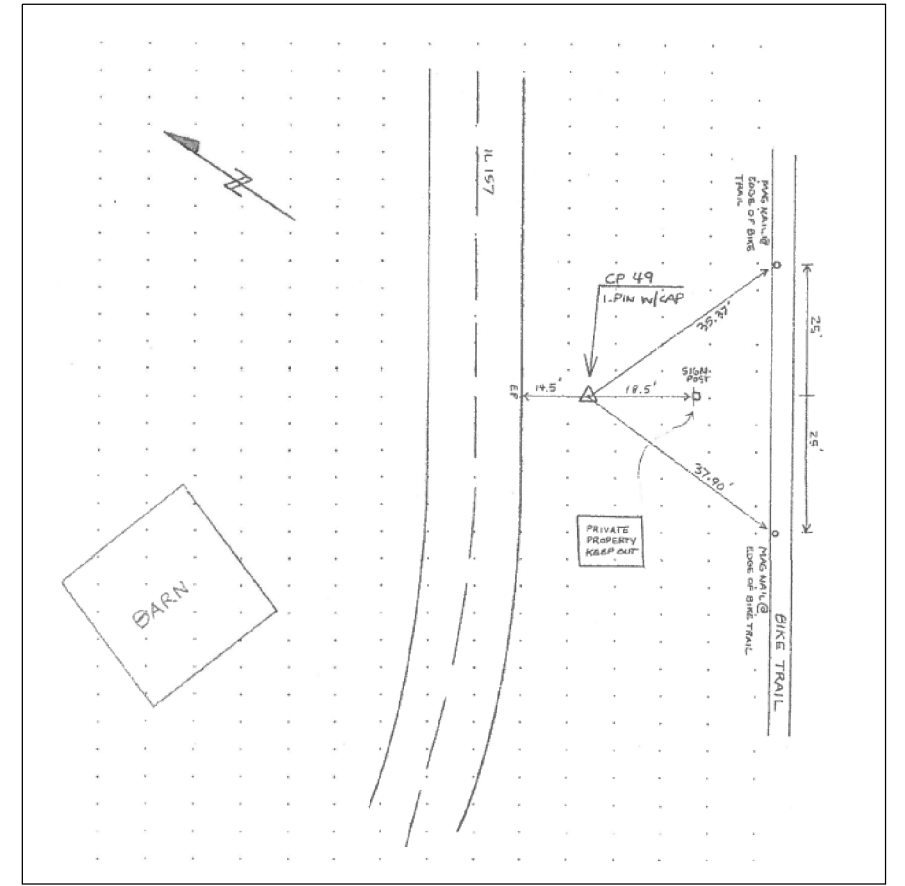
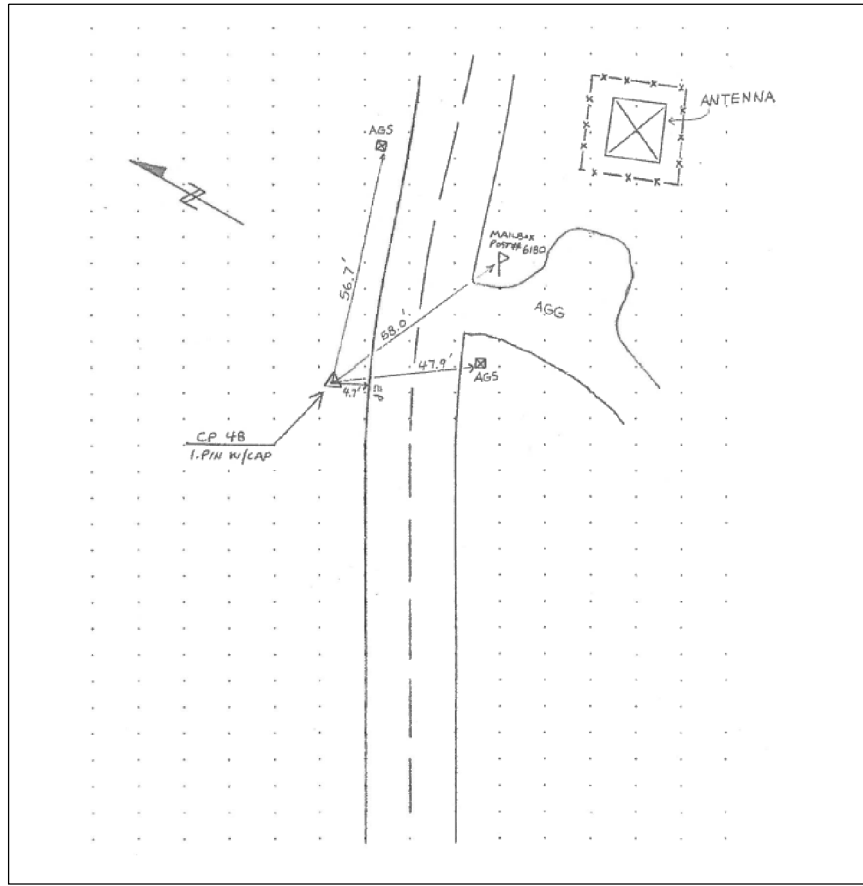
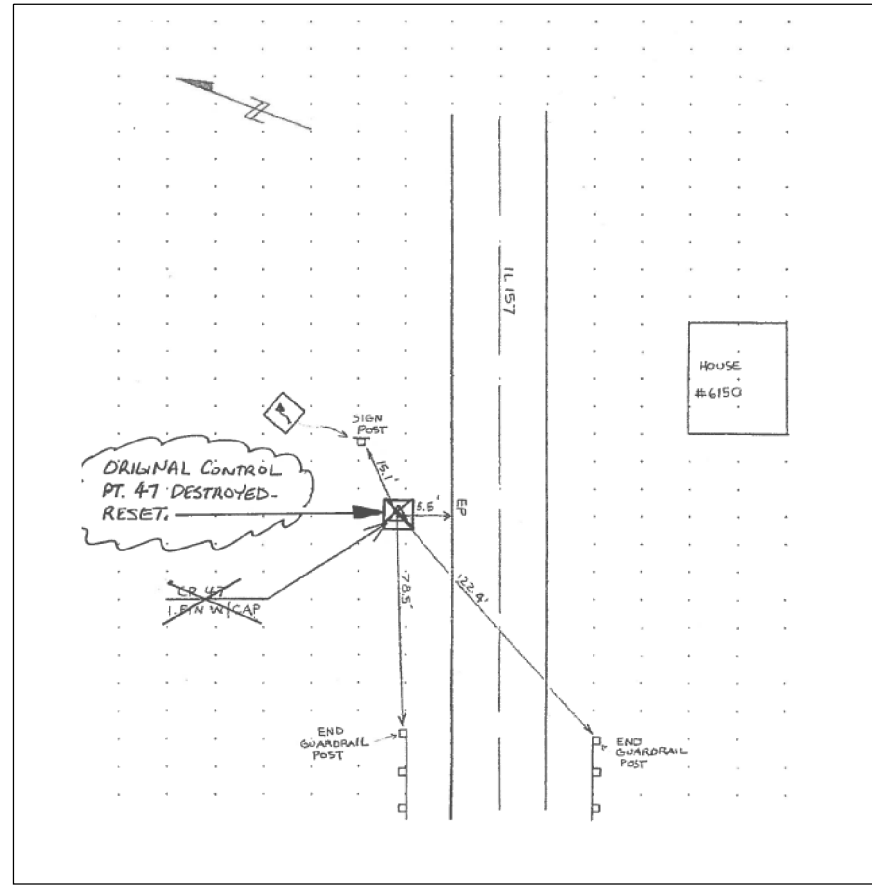
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 CHECKED BY: \\CHECKEDBY
 DATE: \\DATE

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PLOT DATE = 10/19/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONTROL POINTS, TIE POINTS BENCHMARKS	
SCALE: NONE	SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	11
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				



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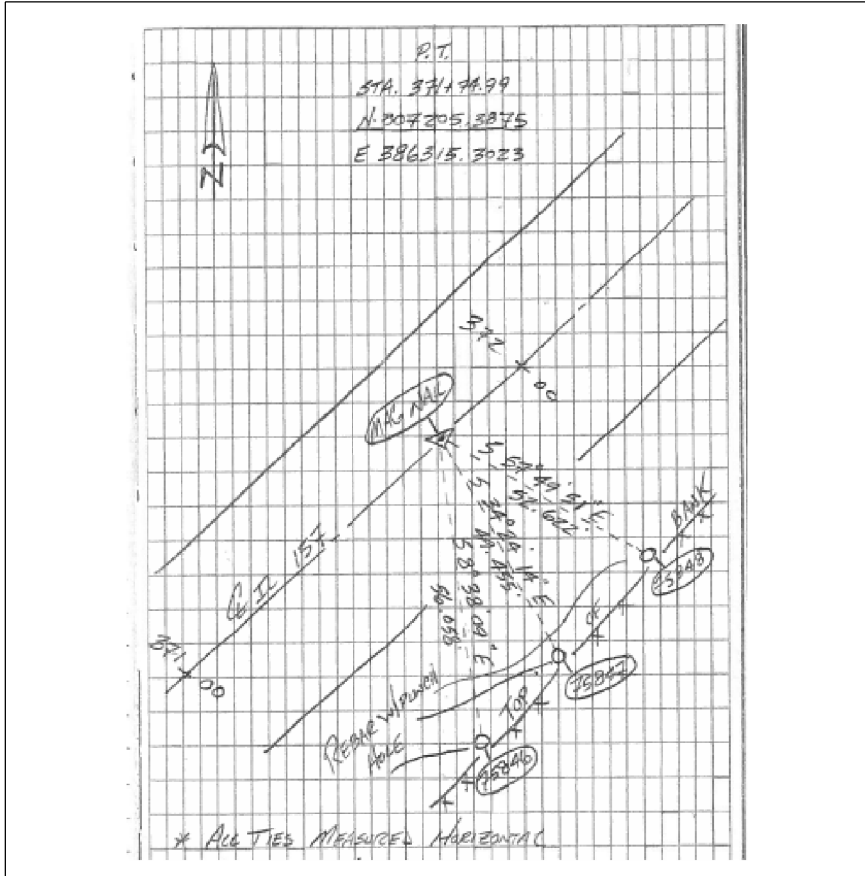
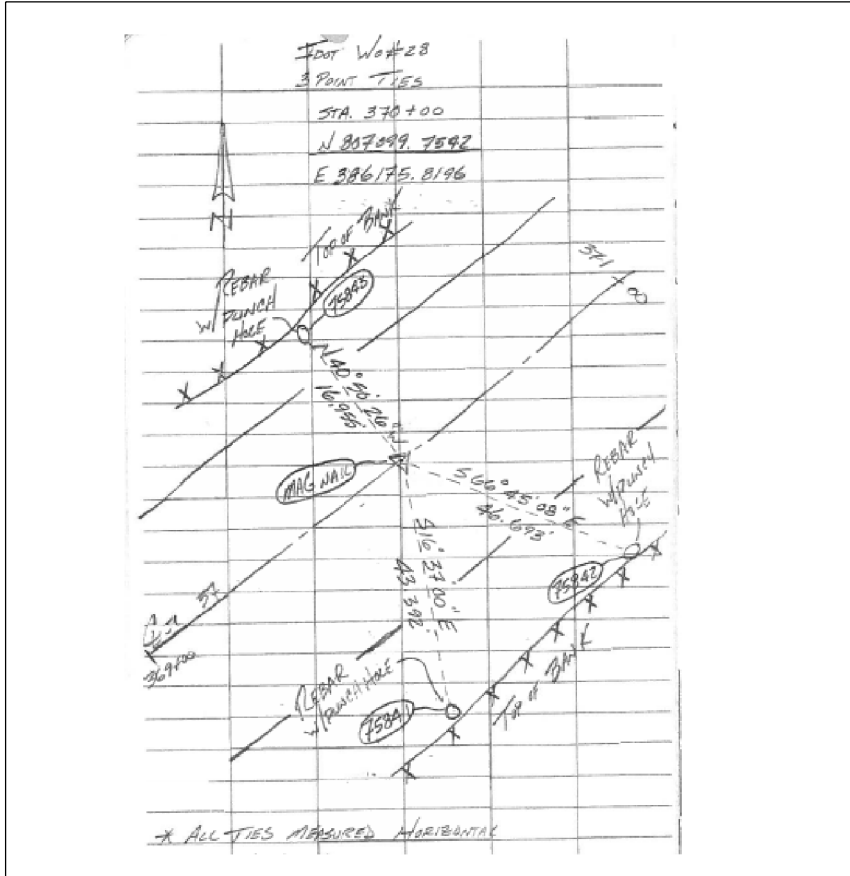
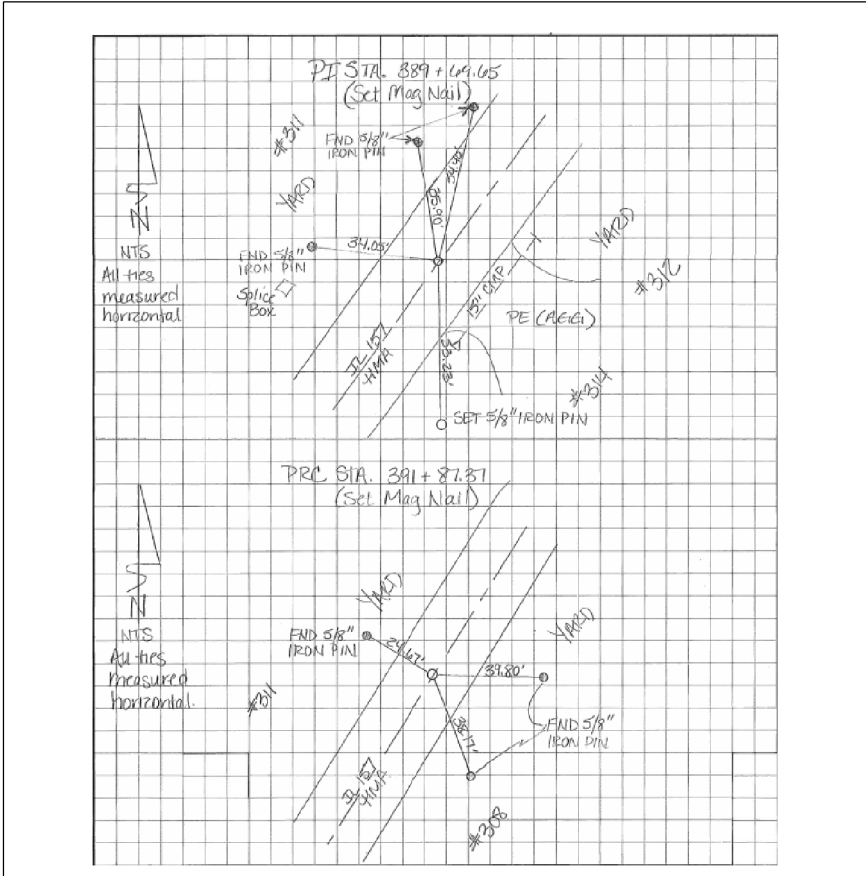
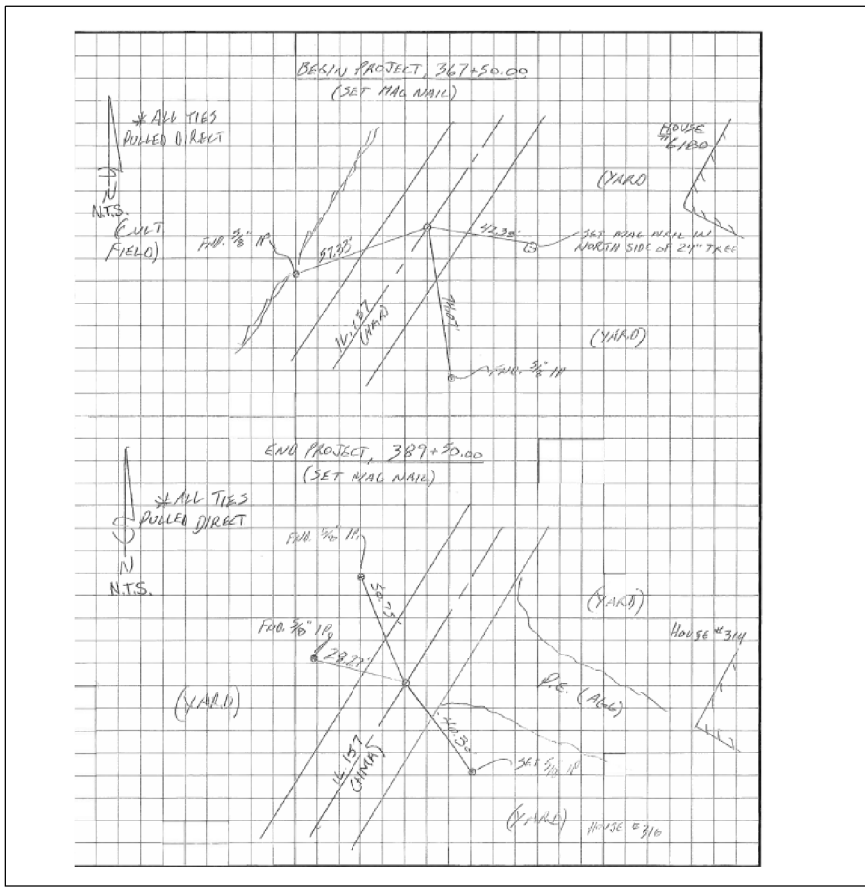
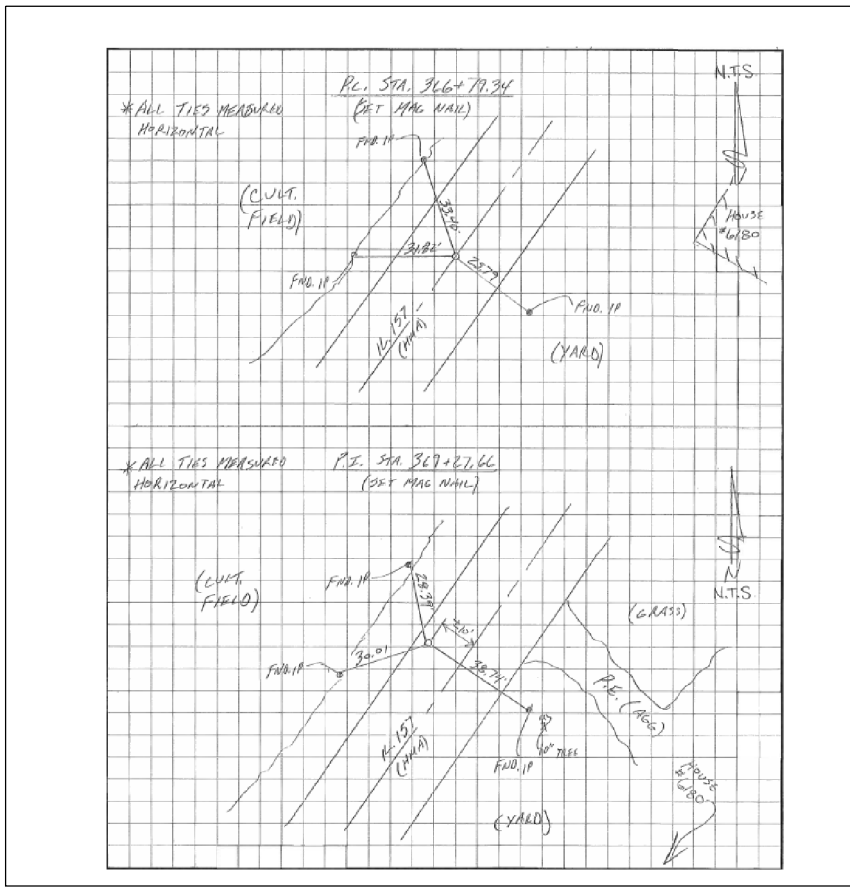
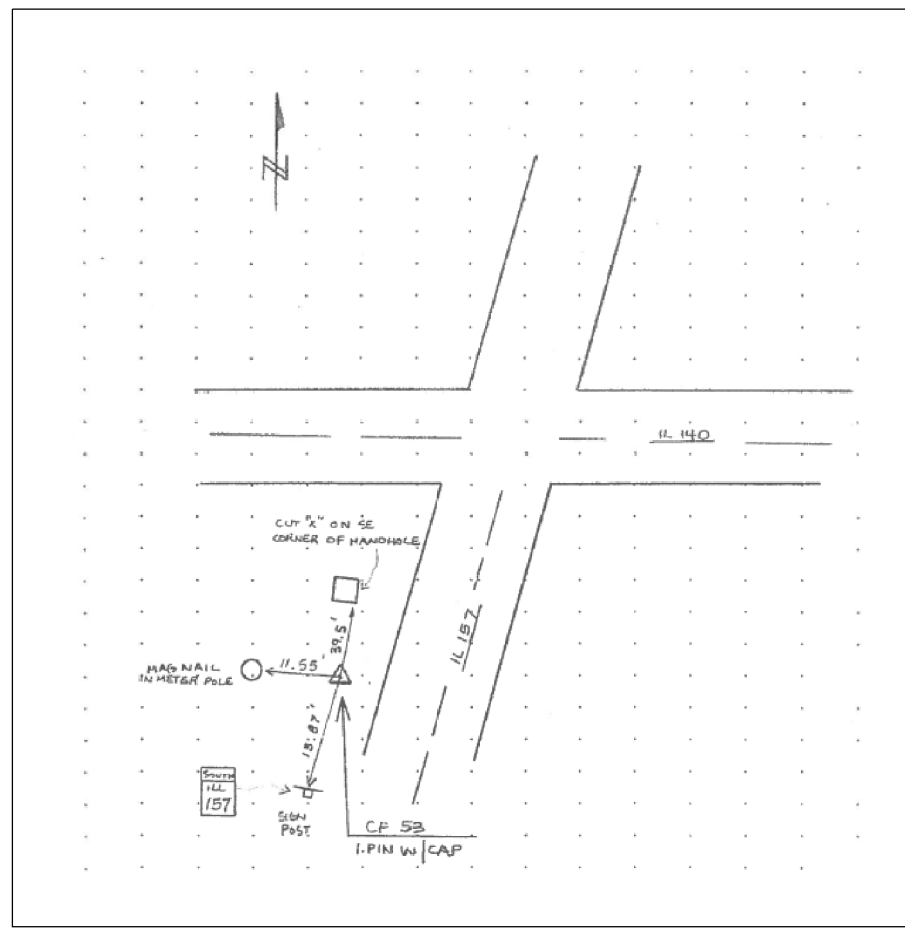
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONTROL POINTS, TIE POINTS
BENCHMARKS**

SCALE: NONE SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	12
CONTRACT NO. 76J12				
ILLINOIS		FED. AID PROJECT		



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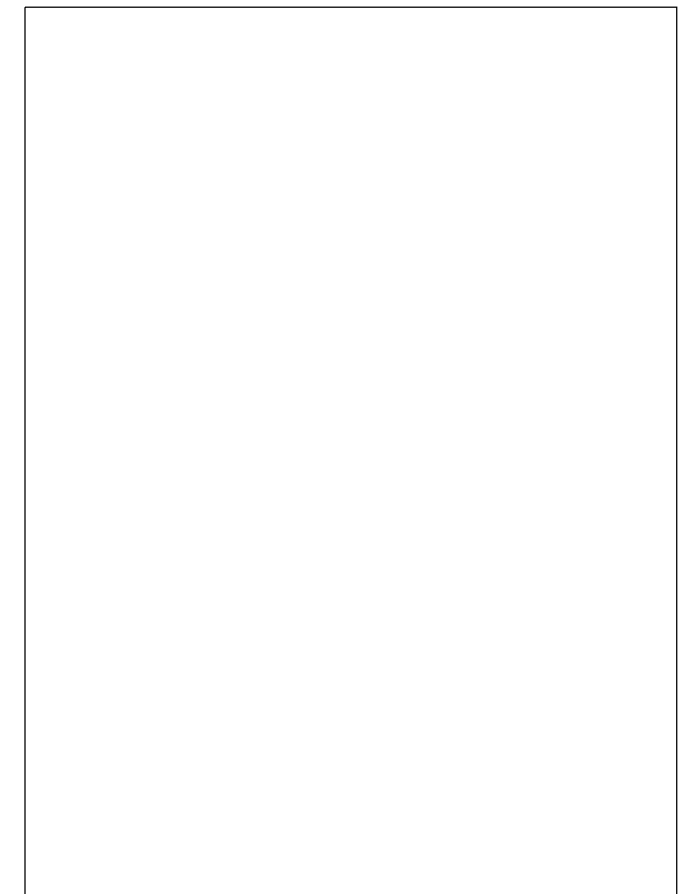
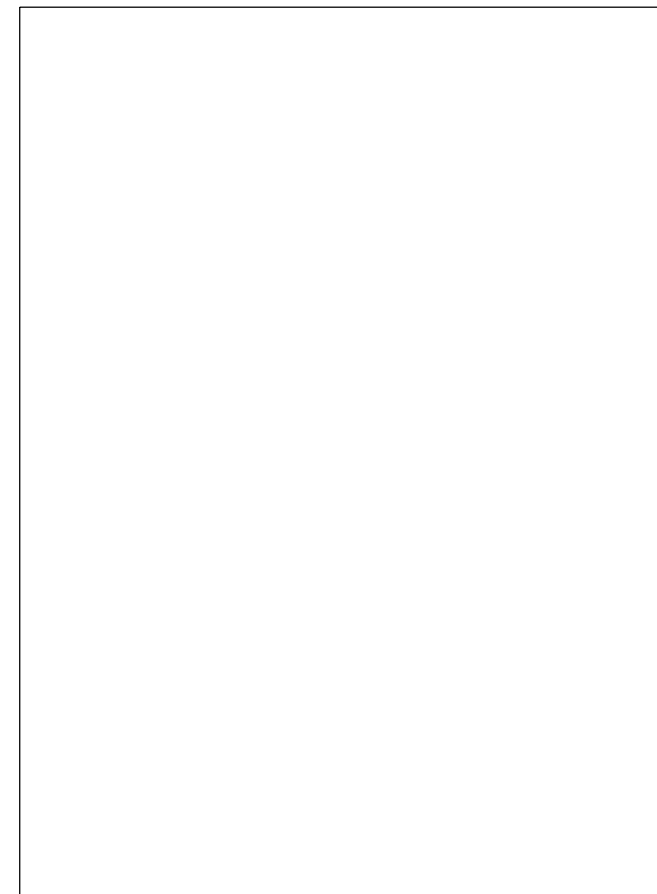
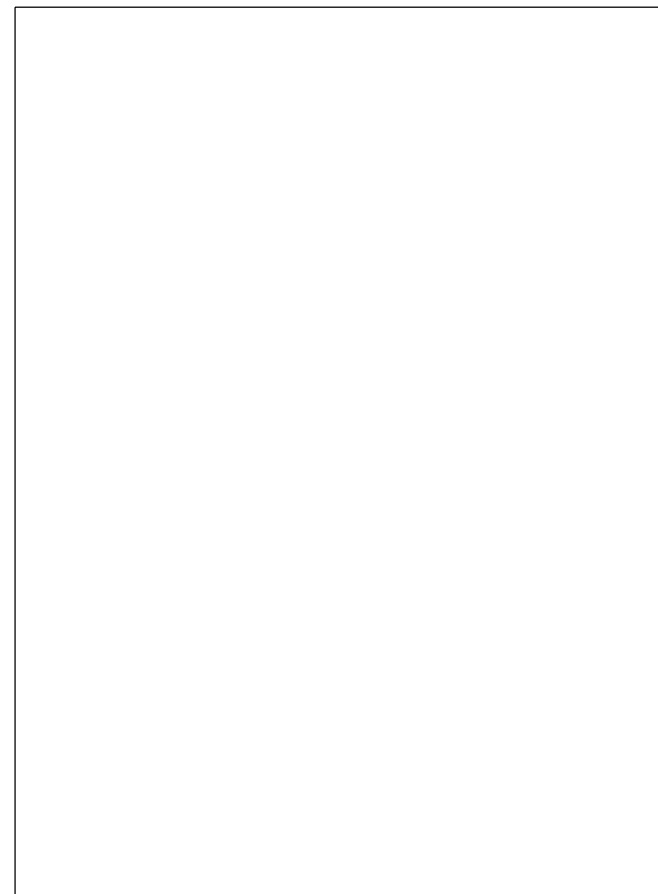
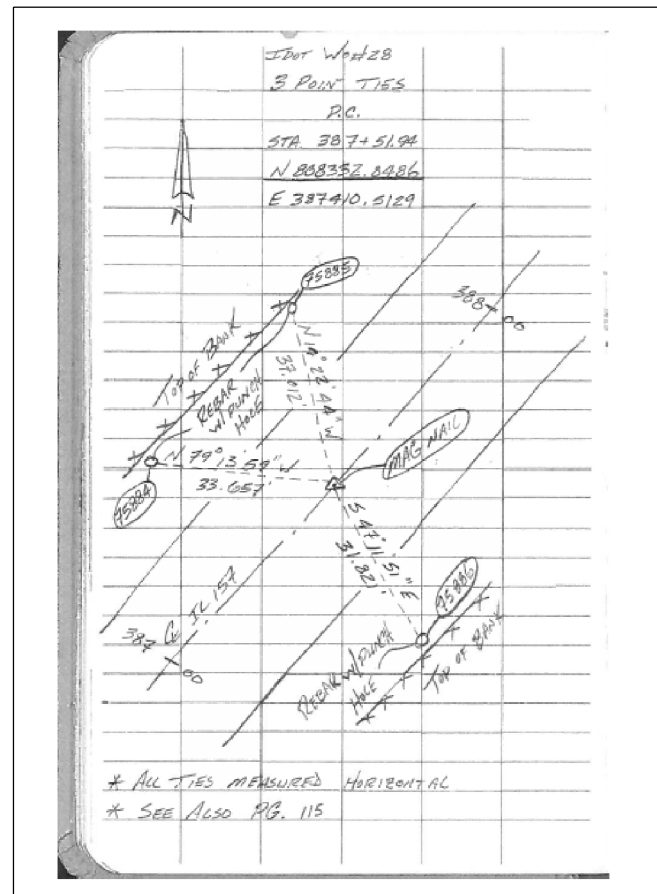
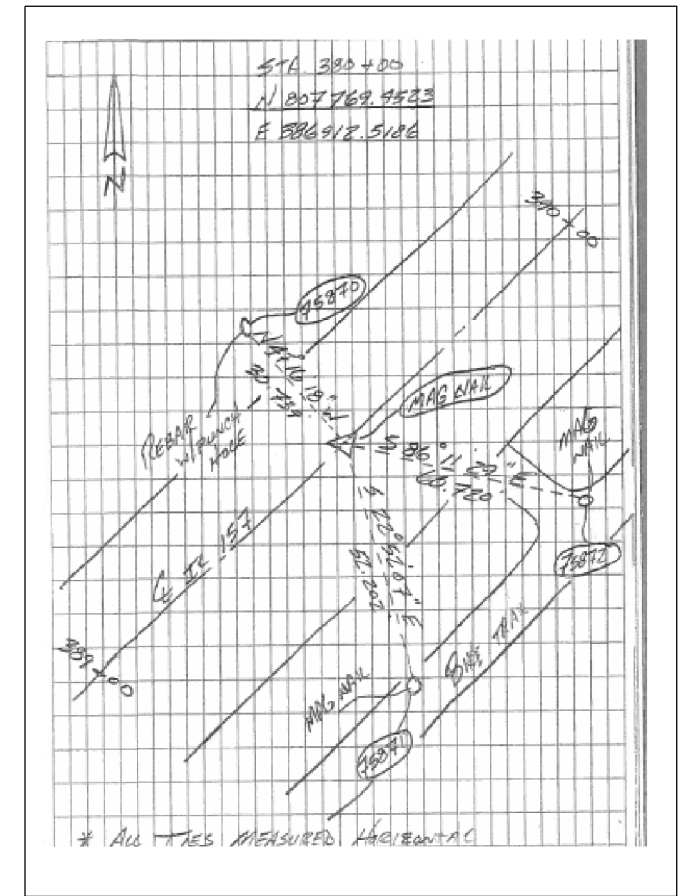
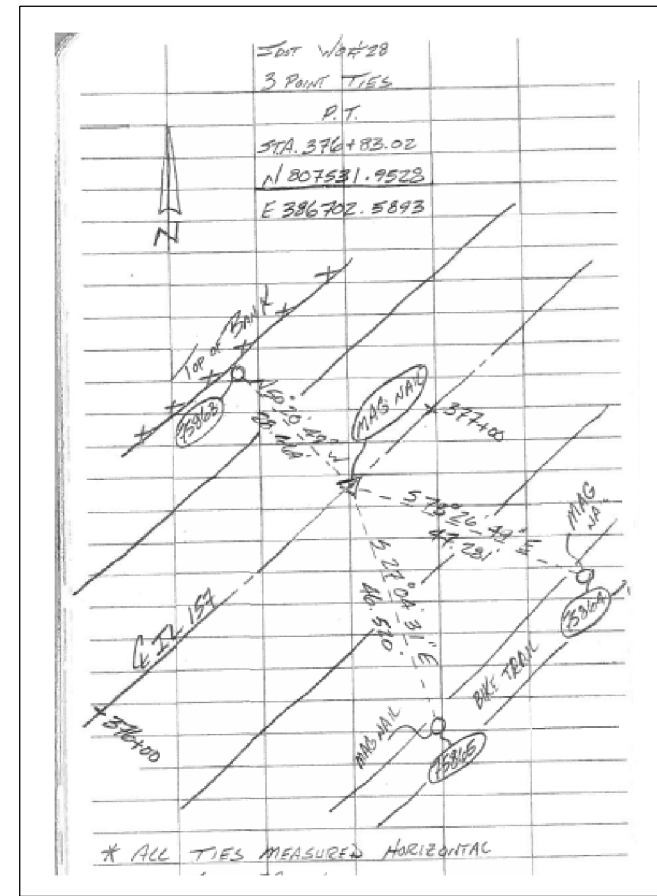
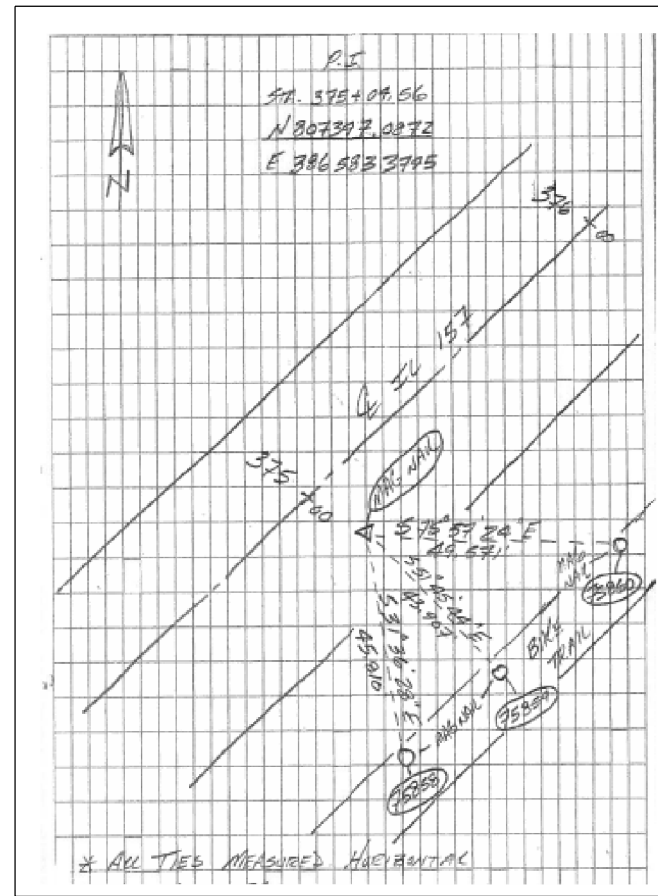
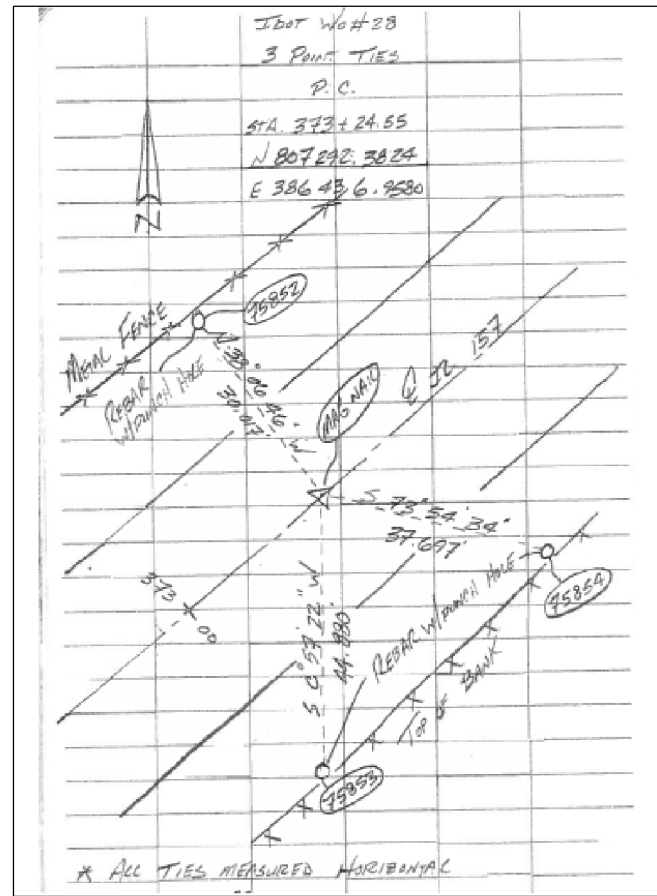
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONTROL POINTS, TIE POINTS
BENCHMARKS**

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	13
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				



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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROL POINTS, TIE POINTS
BENCHMARKS

SCALE: NONE SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	14
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

LGO Level Line Report

Project: IL.157 SN060-2454 over Silver Creek
 Level Line: Line 001 Job No.: P-98-002-16 Contract No.76112
 From BM "157-26" thru new CP#47R & 48 thru 52 & BM "157-26" to BM "157-24"
 Heights: Calculated Unit: U.S. Survey Feet Generated: 03/09/2016
 Instrument: Leica DNA03 IDOT Crew: Q.D., S.S., & T.R.

BM Name or Turn Pt.#	Back	Fore	Dist	Elevation	Description
BM 157-26				549.864	BM 157-26 : RR spike driven 1' above the ground on the north side of power pole located 31' south of the center of IL.140, 77' east of the center of IL.157, and 36' west of the center of Wolf Avenue in Hamel. As referenced in "IL157 Edwardsville to Hamel" Level Line 002, Job#D-98-008-12 dated 7/11/12 with Measured Elev. of 549.864' Approx. Lat. & Long : N 38°53'20"- W 89°50'40"
BM 157-26	4.031	125.55			
1001	5.077	134.85			
1001		548.818			
1001	4.589	190.12			
1002	5.456	189.49			
1002		547.952			
1002	4.941	127.22			
CP 52	5.809	147.18			
CP 52		547.084			
CP 52	3.694	183.42			Existing Control Point #52 - Rebar with IDOT Cap 7/11/12 measured elevation = 547.051'
x					
x					
1003	5.347	149.53			
1003		545.431			
1003	3.124	138.48			
X					Existing Control Point #51 - Rebar with IDOT Cap 7/11/12 measured elevation = 542.079'
X					
CP 51	6.459	134.62			
CP 51		542.097			BM 157-25 : RR spike driven 1' above the ground on the southeast side of power pole located on the northwest corner of IL.157 and Allen Av. near the south end of Hamel, 30' northwest of the center of IL.157, 24' west of the center of Allen Av., and 0.3 mile southwest of IL.140 in Hamel. As referenced in "IL157 Edwardsville to Hamel" Level Line 002, Job#D-98-008-12 with 7/11/12 Measured Elev. of 540.953' 3/09/16 Measured Elevation = 540.953' Approx. Lat. & Long. : N 38°53'09"- W 89°50'55"
CP 51	2.104	71.23			
x					
x					
BM 157-25	3.248	74.55			
BM 157-25		540.953			
BM 157-25	1.666	204.28			
x					
x					
CP 50	6.856	236.04			
CP 50		535.765			
CP 50	2.459	237.49			Existing Control Point #50 - Rebar with IDOT Cap 7/11/12 measured elevation = 535.759'

BM Name or Turn Pt.#	Back	Fore	Dist	Elevation	Description
BM "SILVER"	5.739	205.48			BM "SILVER" : RR spike driven 1' above the ground on the northwest side of power pole located 58' northeast along bituminous bike path from the center of the bike path bridge over Silver Creek and 16' southeast of the center of the bike path on the southeast side IL.157, and approximately 0.45 mile southwest of IL.140 in Hamel. 3/09/16 Measured Elevation = 532.487'
BM "SILVER"	4.786	149.32		532.487	
BM "SILVER"					
x					
CP 49	4.848	152.36			
CP 49		532.426			
CP 49	7.489	191.68			
1004	2.220	189.23			
1004		537.697			
1004	4.557	114.74			
CP 48	3.281	111.51			
CP 48		538.974			
CP 48	4.928	200.53			Existing Control Point #48 - Rebar with IDOT Cap 7/11/12 measured elevation = 538.980'
1005	6.765	240.05			
1005		537.139			
1005	3.353	130.59			
CP 47R	5.789	119.44			
CP 47R		534.704			
CP 47R	1.361	181.19			New Control Point #47R - Rebar with IDOT Cap Replacement for missing CP#47 set 7/11/12
x					
1006	6.536	89.96			
1006		529.531			
1006	4.764	11.32			
x					
BM 157-24	6.623	66.84			
BM 157-24		527.672			
					BM 157-24 : Cut <input type="checkbox"/> centered on the north end of a headwall on the east side of ditch bridge structure #060-2453, 0.15 mile northeast of Staunton Road, and 0.8 mile southwest of IL.140 in Hamel. As referenced in "IL157 Edwardsville to Hamel" Level Line 002, Job#D-98-008-12 dated 7/11/12 with Measured Elevation of 527.672' Approx. Lat. & Long. : N 38°52'50"- W 89°51'19"
Observed Closing Elevation				527.690	
BM 157-24 published Elevation				527.672	
4498' or 0.85 Mile Closure				+0.018'	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONTROL POINTS, TIE POINTS
BENCHMARKS**

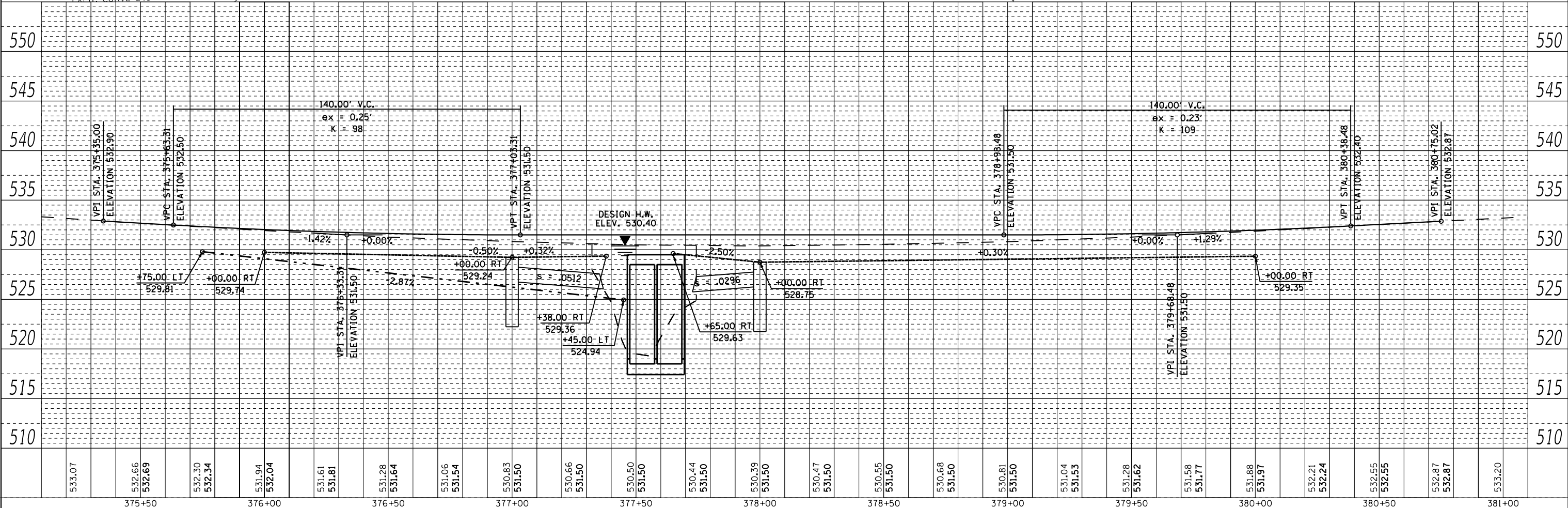
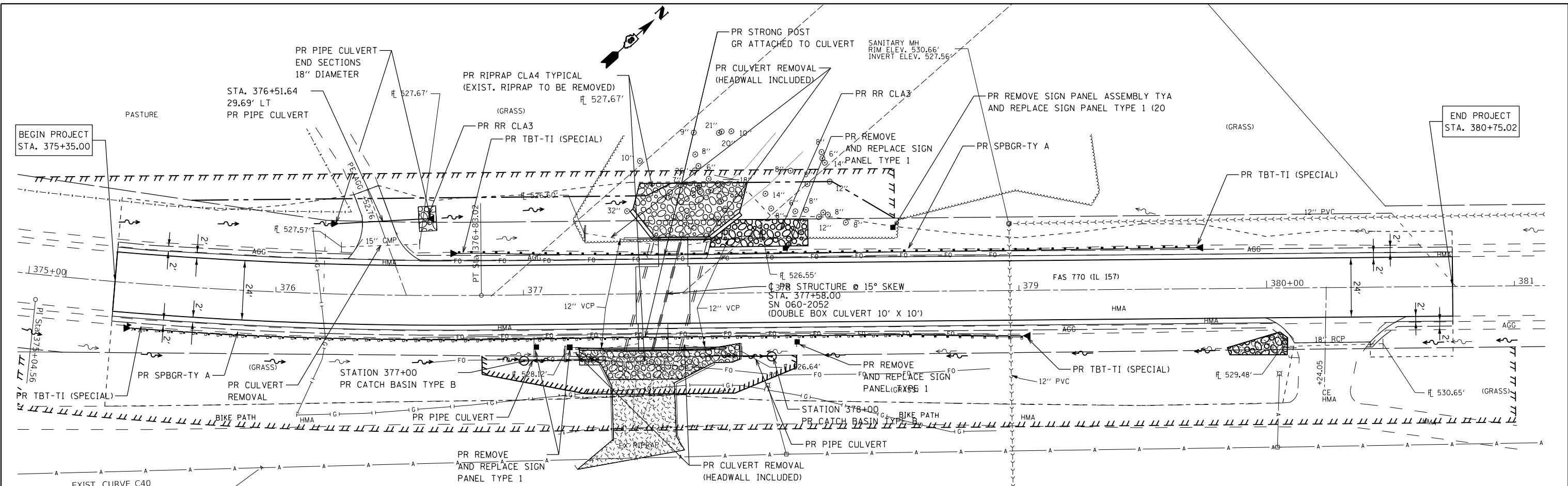
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F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	15
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK	
NO.	
CADD FILE NAME	

DATE	
BY	
SURVEYED	
PLOTTED	
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NOTE BOOK	
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STRUCTURE NOTATION CHWD	

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PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE			
F.A.S. RTE. 770	SECTION 66-BR	COUNTY MADISON	TOTAL SHEETS 41
SCALE: 1"=20"		SHEET 1 OF 1 SHEETS	STA. 375+00 TO STA. 381+00
CONTRACT NO. 76J12			

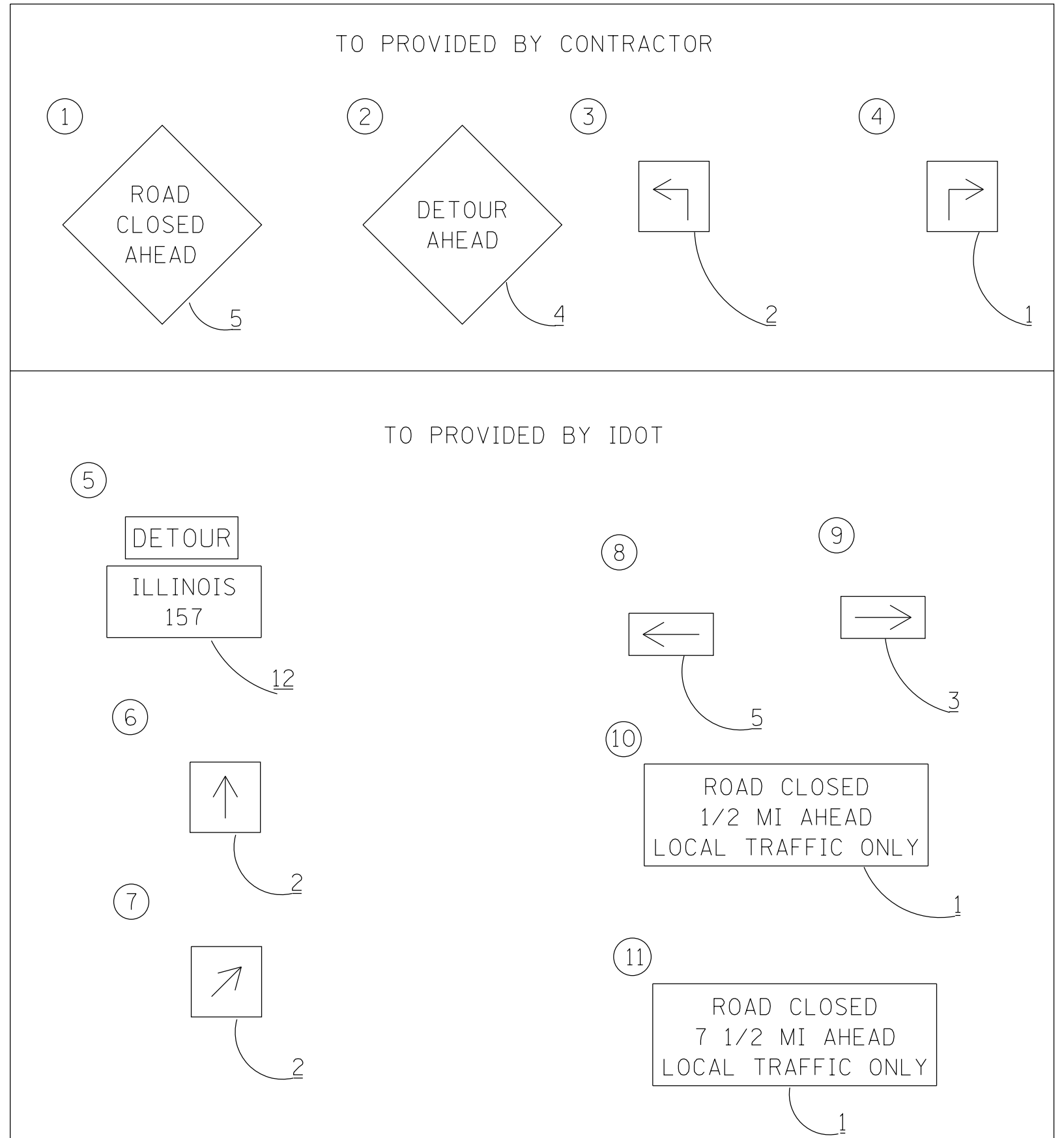
ILLINOIS	FED. AID PROJECT
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DETOUR SIGNING
IL 157 OVER CREEK TRIB.

SIGNS REQUIRED

NOTES

1. DETOUR SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE AT 394-2189.
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR DETOUR SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.
7. CONTRACTOR SHALL FURNISH ADVANCE WARINING SIGNS, ROAD CLOSURE SIGNS, MESSAGE BOARD, AND TYPE 3 BARRICADES.
8. ALL ADVANCEWARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE WITH FLASHING LIGHTS.



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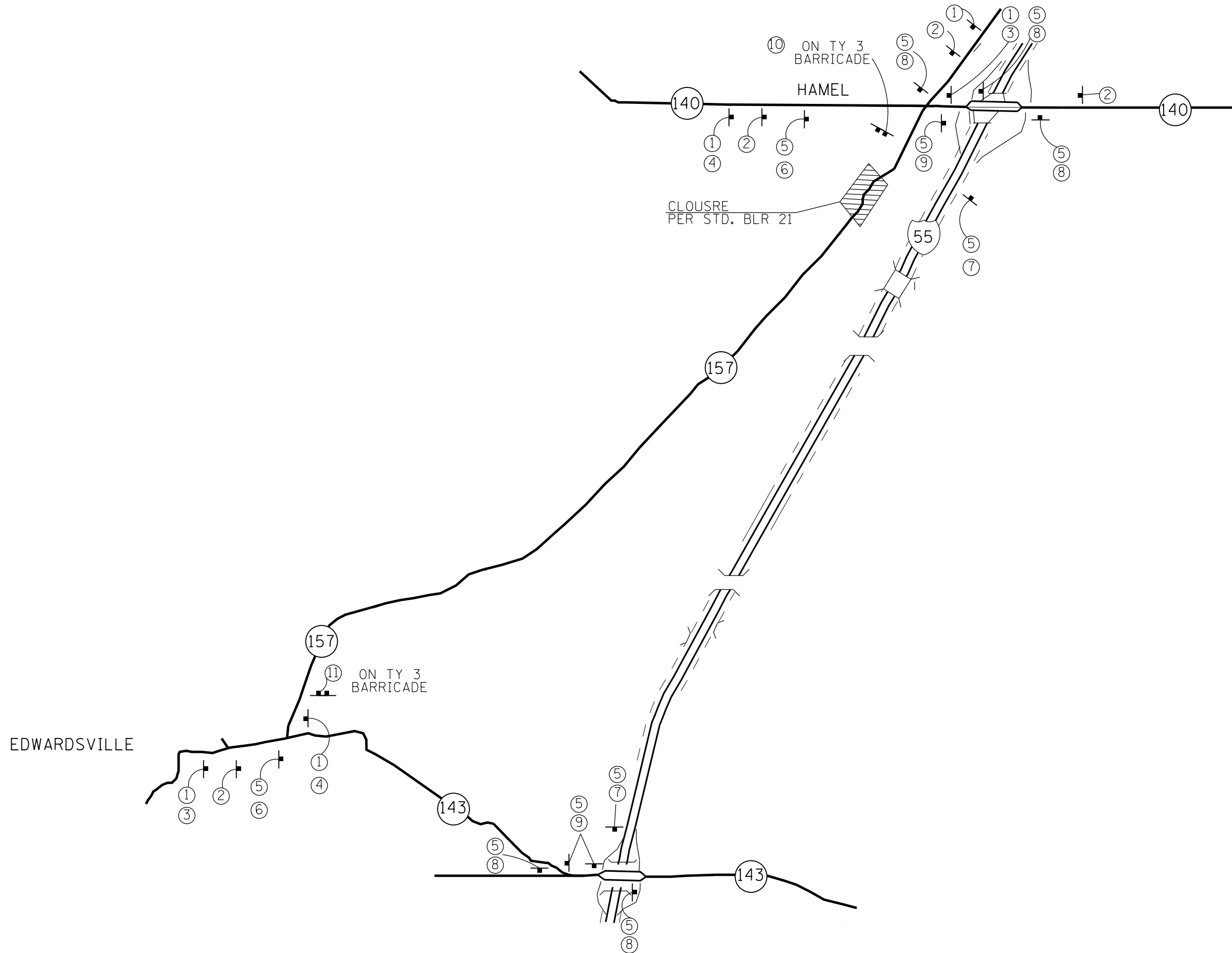
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PLOT DATE = 10/19/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	17
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				



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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING

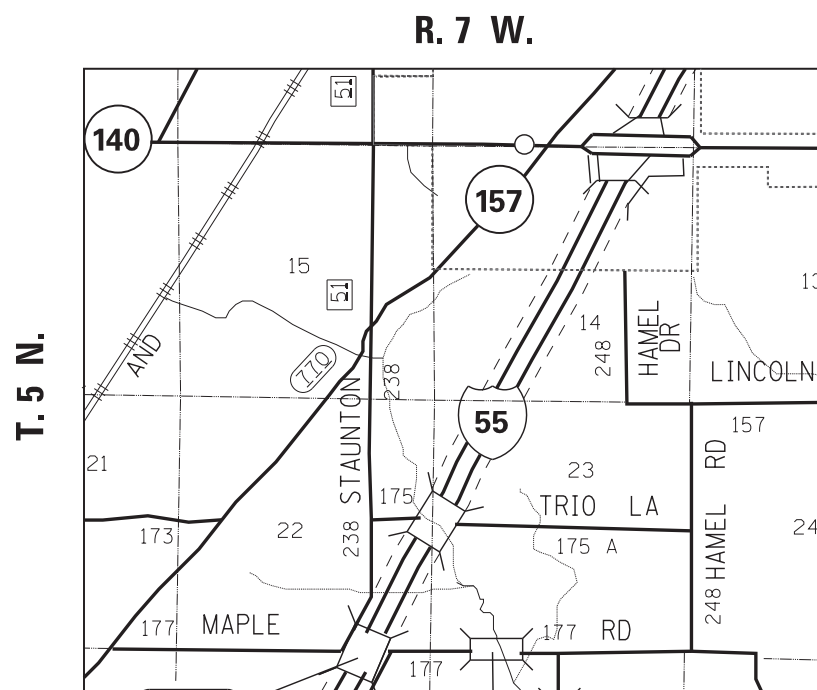
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	18
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

SHEET INDEX		
SHEET NO.	STATION to STATION	DESCRIPTION
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2	N/A	LEGEND/NOTES
3	N/A	PLAT OF HIGHWAYS
4	N/A	TOTAL HOLDING SKETCH & SECTION CORNER/CONTROL POINT TIES

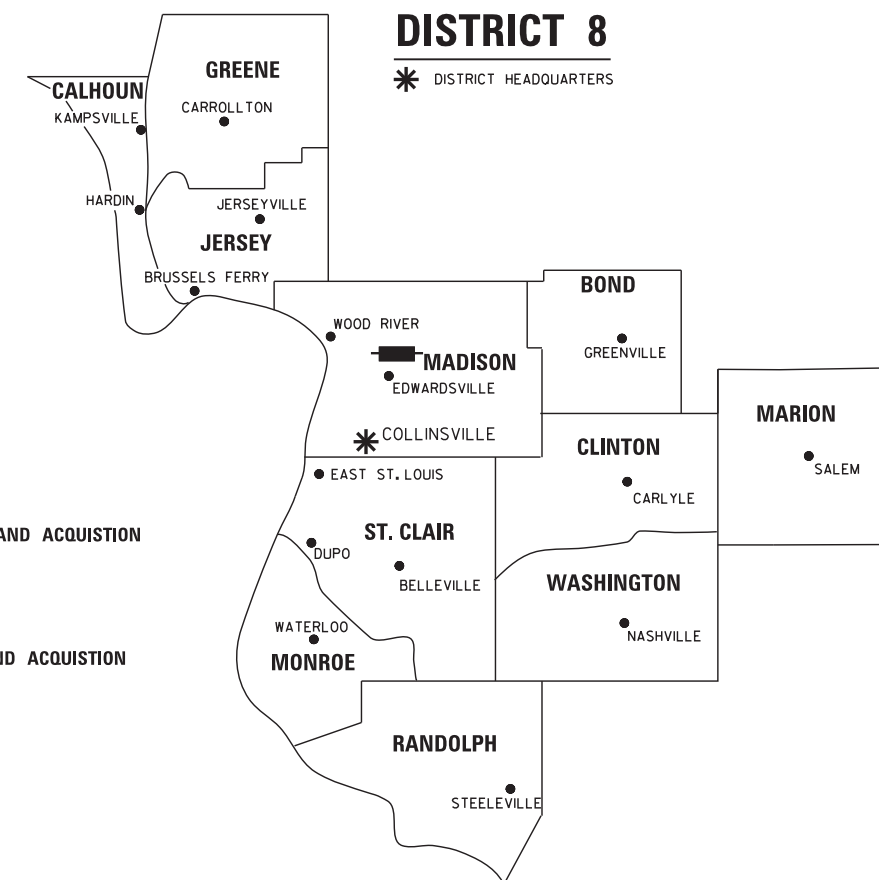
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS
FAUP ROUTE 770 (IL 157)
SECTION 66-BR
MADISON COUNTY
JOB NO.
R-98-012-17



PROJECT LENGTH = LIN. FT. = MILE

— BEGIN PROJECT - LAND ACQUISITION STA.
 — END PROJECT - LAND ACQUISITION STA.



LOCATION OF SECTION INDICATED THUS:

PREPARED BY:



SHERRILL ASSOCIATES, INC.
 Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001238
 316 North Main Street Tel: 618-656-9251
 Edwardsville, IL 62025 Fax 618-656-9496



GREGORY S. McVICAR, PLS NO. 3512
 LICENSE EXPIRATION DATE: 11/30/2018

SHEET 1 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	19
CONTRACT NO. 76J12				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TRAFFIC SIGNAL HANDHOLE	□	DRAINAGE FLOW LINE	—
TRAFFIC SIGNAL GULFBOX	○	RIP RAP	—
TRAFFIC SIGNAL HANDHOLE	□	HEADWALL	—
TRAFFIC SIGNAL SIGNAL POST	○	CULVERT END SECTION	—
TRAFFIC SIGNAL STEEL MAST ARM	—	DRAINAGE MANHOLE	—
TRAFFIC SIGNAL COMBINED MAST ARM	—	INLET	—
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	●	ROADWAY DITCH FLOW	—
TRAFFIC SIGNAL WOODEN POLE	⊗	VEGETATION LINE	—
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY	⊗	STUMP	—
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET	—	SHRUB	—
TRAFFIC SIGNAL JUNCTION BOX	⊗	EVERGREEN TREE	—
TRAFFIC SIGNAL CONTROLLER	⊗	DECIDUOUS TREE	—
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	⊗	WOODS/BUSH PATTERN	—
RAILROAD CANTILEVER MAST ARM	—	TRAFFIC SIGN	—
RAILROAD CROSSBUCK	—	GAURDRAIL POST	—
RAILROAD TRACK PATTERN	—	GAURDRAIL PATTERN	—
RAILROAD ABANDON PATTERN	—	FIELD LINE	—
RAILROAD CROSSGATE	—	LEVEE/NOISE BARRIER	—
RAILROAD CONTROL BOX	—	FENCE PATTERN	—
RAILROAD FLASHING SIGNAL	—	MAIL BOX	—
TELEPHONE SPLICE BOX ABOVE GROUND	—	ADVERTISING SIGN	—
UTILITY POWER POLE	—	MARSH	—
TELEPHONE POLE	—	LIGHTING HANDHOLE	—
UTILITY TRAFFIC SIGNAL	—	LIGHTING POWER POLE	—
UTILITY LIGHT POLE	—	LIGHTING JUNCTION BOX	—
FIRE HYDRANT	—	LIGHTING HEAVYDUTY HANDHOLE	—
UTILITY MANHOLE	—	LIGHTING CONTROLLER	—
UTILITY TELEPHONE POLE	—	LIGHTING PULL POINT	—
UTILITY GUY POLE	—	HIGHWAY LIGHTING ELECTRICAL GROUND	—
PIPELINE WARNING SIGN	—	HIGHWAY LIGHTING SINGLE UNIT	—
UTILITY HANDHOLE	—	HIGHWAY LIGHTING DOUBLE UNIT	—
UTILITY SPLICE ABOVE GROUND	—	EXISTING CONCRETE BARRIER	—
UTILITY JUNCTION BOX	—	EXISTING CREEK OR DITCH	—
UTILITY HEAVY DUTY HANDHOLE	—	EXISTING EDGE OF PAVEMENT	—
UTILITY DOUBLE HANDHOLE	—		
UTILITY CONTROLLER	—		
UTILITY WATER METER	—		

RIGHT OF WAY LEGEND

	QUARTER SECTION CORNERS		SECTION CORNERS
	FORMER RIGHT OF WAY LINE		FORMER PROPERTY LINE
	EXISTING CENTERLINE		FORMER PROPERTY LINE WITHIN RIGHT OF WAY
	EXISTING RIGHT OF WAY LINE		APPARENT PROPERTY LINE
	FORMER RIGHT OF WAY LINE		MEASURED DIMENSION
	EXISTING IDOT EASEMENT LINE		RECORDED DIMENSION
	EXISTING EASEMENT LINE		FOUND STONE
	BUILDING SETBACK LINE		FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
	EXISTING ACCESS CONTROL LINE		SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
	EXISTING RIGHT OF WAY & PROPOSED ACCESS CONTROL LINE		PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
	PROPOSED ACCESS CONTROL LINE		SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
	PROPOSED CENTERLINE		FOUND IRON ROD IDOT CONTROL POINT
	PROPOSED RIGHT OF WAY LINE		FOUND CUT CROSS
	PROPOSED TEMPORARY EASEMENT LINE		SET CUT CROSS
	PROPOSED PERMANENT EASEMENT LINE		SAME OWNERSHIP
	SECTION LINE		EXISTING BUILDING
	QUARTER SECTION LINE		EXISTING CANOPY/OVERHANG
	QUARTER QUARTER SECTION LINE		EXISTING BUILDING DIMENSIONS/NOTES
	PROPERTY LINE		STAKING OF PROPOSED RIGHT OF WAY CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CH	COUNTY HIGHWAY
Ch	CHAIN
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAUS	FEDERAL AID URBAN SECONDARY
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m	METER
m²	SQUARE METERS
N	NORTH
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT OF TANGENT
PL	PROPERTY LINE
PR	PROPOSED
RD	ROAD
ROW	RIGHT OF WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SO FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
TWP	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

SPACE RESERVED FOR RECORDING OFFICER

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
CB	CHORD BEARING
R	RADIUS OF CURVE
L	CURVE LENGTH
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
e	EXTERNAL
Δ	CENTRAL ANGLE

PREPARED BY:



SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number 184-001238
316 North Main Street, Edwardsville, IL 62025
Tel. 618-656-9251, Fax 618-656-9251



GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2018

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON. NO ADDITIONAL ITEMS WERE LOCATED IN THE FIELD BY THE SURVEYOR.

BASIS OF COORDINATE & BEARING STATEMENT

The coordinates and bearings for this survey are based on the Project Survey Control Data that the Illinois Department of Transportation (Department) established and provided to the surveyor, which is a "GROUND SURFACE COORDINATE SYSTEM" prepared specifically for this project. The control points utilized on this project and their associated coordinates, as provided by the Department, are listed in Table A below. This "GROUND SURFACE COORDINATE SYSTEM" was derived from the Department's initial control survey which established state plane coordinate values for each of the control points, based on the Illinois State Plane Coordinate System, West Zone 1202, NAD 83 (2011) EPOCH 2010.00 Vertical Datum: NAVD88. To create the project's "GROUND SURFACE COORDINATE SYSTEM", the Department made two adjustments to the state plane coordinate values. 1. The Department adjusted the state plane coordinates to a ground coordinate system by dividing the state plane coordinate values by the average combination factor utilized for this project, which is ----- 2. The Department subtracted 2,000,000 from the Easting values to distinguish a unique difference between the ground coordinate system for the project from state plane coordinates.



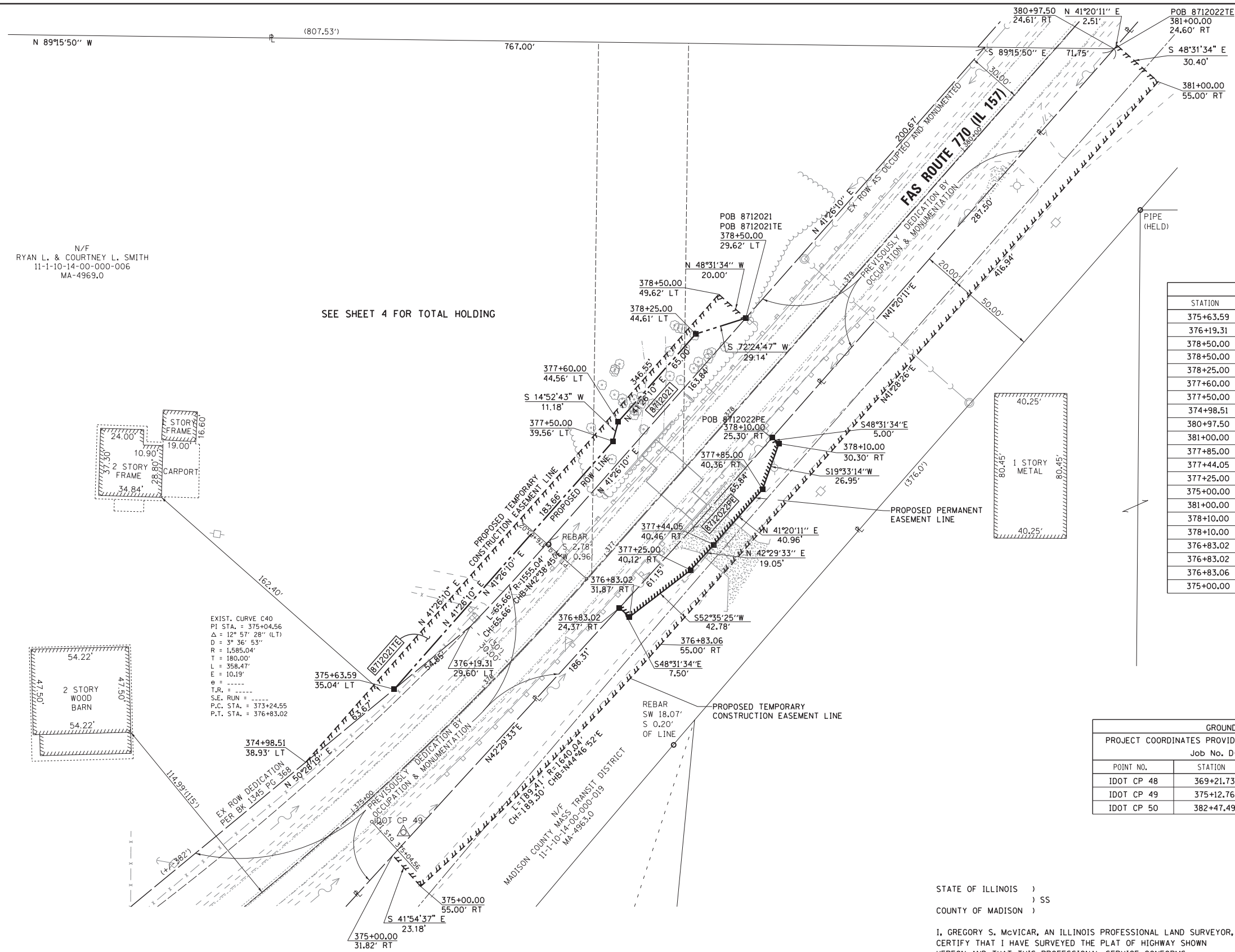
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 770 (IL 157)
SECTION 66-BR
MADISON COUNTY
JOB NO. R-98-012-17
GENERAL NOTES AND LEGEND

SHEET 2 OF 4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	20
CONTRACT NO. 76J12				

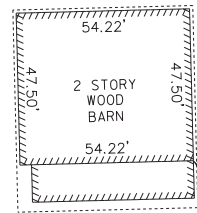
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

PART OF THE SW 1/4 OF THE NW 1/4 OF SEC 14, T 5 N, R 7 W, OF THE 3RD PM, MADISON COUNTY



N/F
RYAN L. & COURTNEY L. SMITH
11-1-10-14-00-000-006
MA-4969.0

SEE SHEET 4 FOR TOTAL HOLDING



EXIST. CURVE C40
PI STA. = 375+04.56
Δ = 12° 57' 28" (LT)
D = 3° 36' 53"
R = 1,585.04'
T = 180.00'
L = 358.47'
E = 10.19'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 373+24.55
P.T. STA. = 376+83.02

STATION	OFFSET	NORTHING	EASTING
375+63.59	35.04' LT	807470.6487	386595.7674
376+19.31	29.60' LT	807505.5572	386638.0724
378+50.00	29.62' LT	807676.6832	386790.9806
378+50.00	49.62' LT	807689.9288	386775.9954
378+25.00	44.61' LT	807667.8774	386763.1992
377+60.00	44.56' LT	807619.1472	386720.1833
377+50.00	39.56' LT	807608.3389	386717.3117
374+98.51	38.93' LT	807430.1233	386546.6553
380+97.50	24.61' RT	807826.2040	386995.5259
381+00.00	24.60' RT	807828.0868	386997.1820
377+85.00	40.36' RT	807581.6354	386800.3700
377+44.05	40.46' RT	807550.8835	386773.3194
377+25.00	40.12' RT	807536.8390	386760.4533
375+00.00	31.82' RT	807378.4370	386595.0000
381+00.00	55.00' RT	807807.9550	387019.9578
378+10.00	25.30' RT	807610.3517	386805.6527
378+10.00	30.30' RT	807607.0403	386809.3990
376+83.02	24.37' RT	807515.8147	386720.8505
376+83.02	31.87' RT	807510.8476	386726.4699
376+83.06	55.00' RT	807495.5581	386743.8255
375+00.00	55.00' RT	807361.1903	386610.4802

PROJECT COORDINATES PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION				
Job No. D-98-053-16 / Contract No. 76J12				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
IDOT CP 48	369+21.73	16.34' LT	807062.5641	386104.8213
IDOT CP 49	375+12.76	26.30' RT	807391.2459	386600.9253
IDOT CP 50	382+47.49	40.11' RT	807928.3199	387106.4770



SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

SPACE RESERVED FOR RECORDING OFFICER

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION						EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY	
			GROSS		PREVIOUSLY DEDICATED		NET		REMAINDER				
			ACRES	SO. FT.	ACRES	SO. FT.	ACRES	SO. FT.	ACRES	SO. FT.			PE = PERMANENT
8712021	RYAN L. SMITH AND COURTNEY L. SMITH, AS JOINT TENANTS TITLE REPORT NO. MA-4969.0	8.8757	2.0914	91,101	2,0275	88,316	0.0639	2,785	6,8425	TE=0.0657	TE=2,864	CONSTRUCTION & GRADING	11-1-10-14-00-000-006
8712022	MADISON COUNTY MASS TRANSIT DISTRICT FORMERLY KNOWN AS MADISON COUNTY METRO-EAST TRANSIT DISTRICT TITLE REPORT NO. MA-4963.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TE=0.3735 PE=0.0372	TE=16,269 PE=1,623	DRAINAGE CONSTRUCTION & MAINTENANCE	11-1-10-14-09-101-013; 11-1-10-14-00-000-019

STATE OF ILLINOIS)
) SS
COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

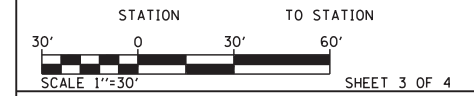
DATED _____

GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2018



SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number 184-001238
316 North Main Street, Edwardsville, IL 62025
Tel. 618-656-9251, Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 770 (IL 157)
SECTION 66-BR
MADISON COUNTY
JOB NO. R-98-012-17



ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT B
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	21

CONTRACT NO. 76J12

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: JANUARY, 2017 ROW STAKING:



SPACE RESERVED FOR RECORDING OFFICER

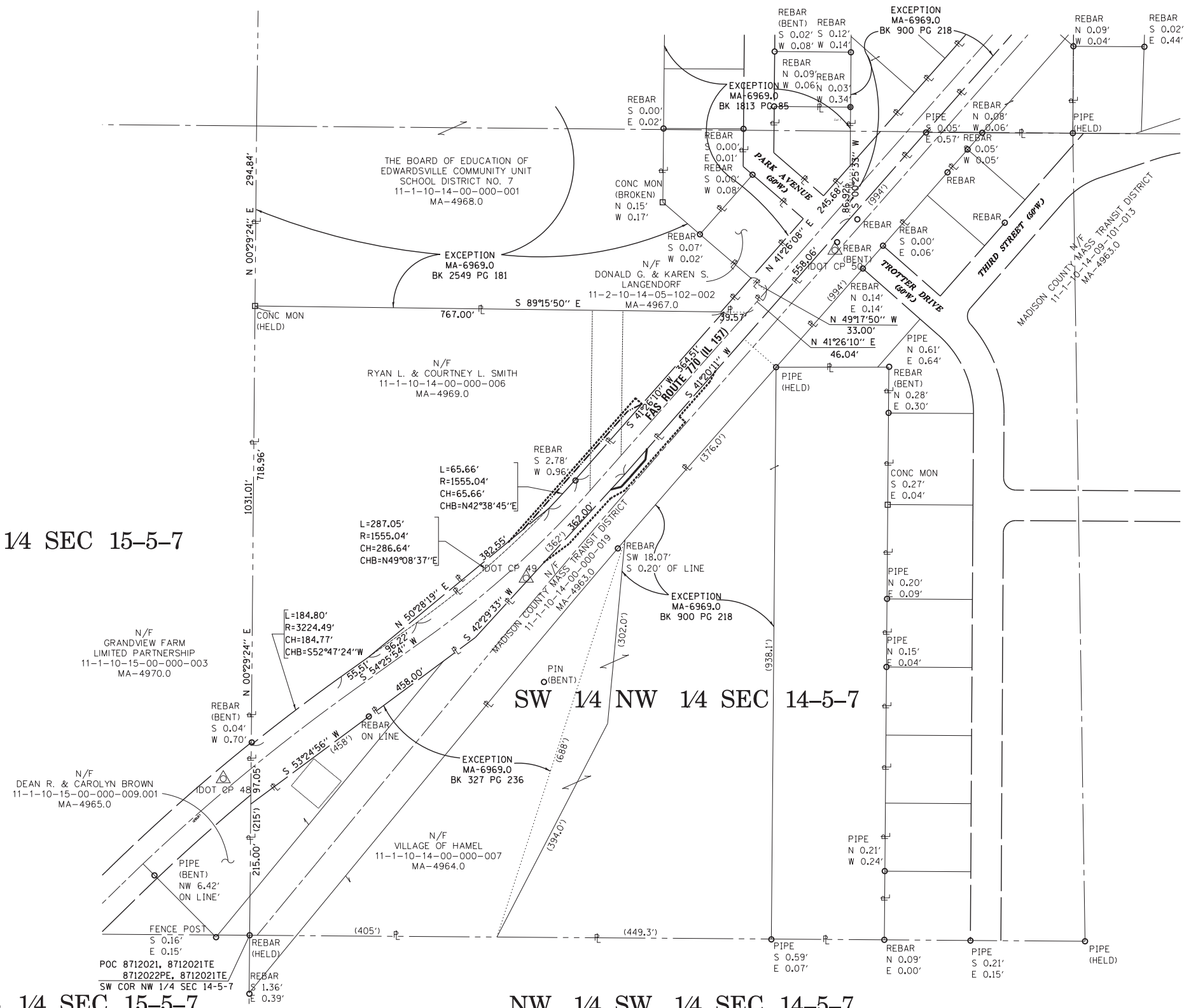
SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

SW COR NW 1/4 SEC 14, T.5 N., R.7 W.
 ---/--- MONUMENT RECORD DOC. NO. ---
 N=, E=

IDOT CONTROL POINT NO. 48
 N=, E=

IDOT CONTROL POINT NO. 49
 N=, E=

IDOT CONTROL POINT NO. 50
 N=, E=



SE 1/2 NE 1/4 SEC 15-5-7

SW 1/4 NW 1/4 SEC 14-5-7

NE 1/4 SE 1/4 SEC 15-5-7

NW 1/4 SW 1/4 SEC 14-5-7

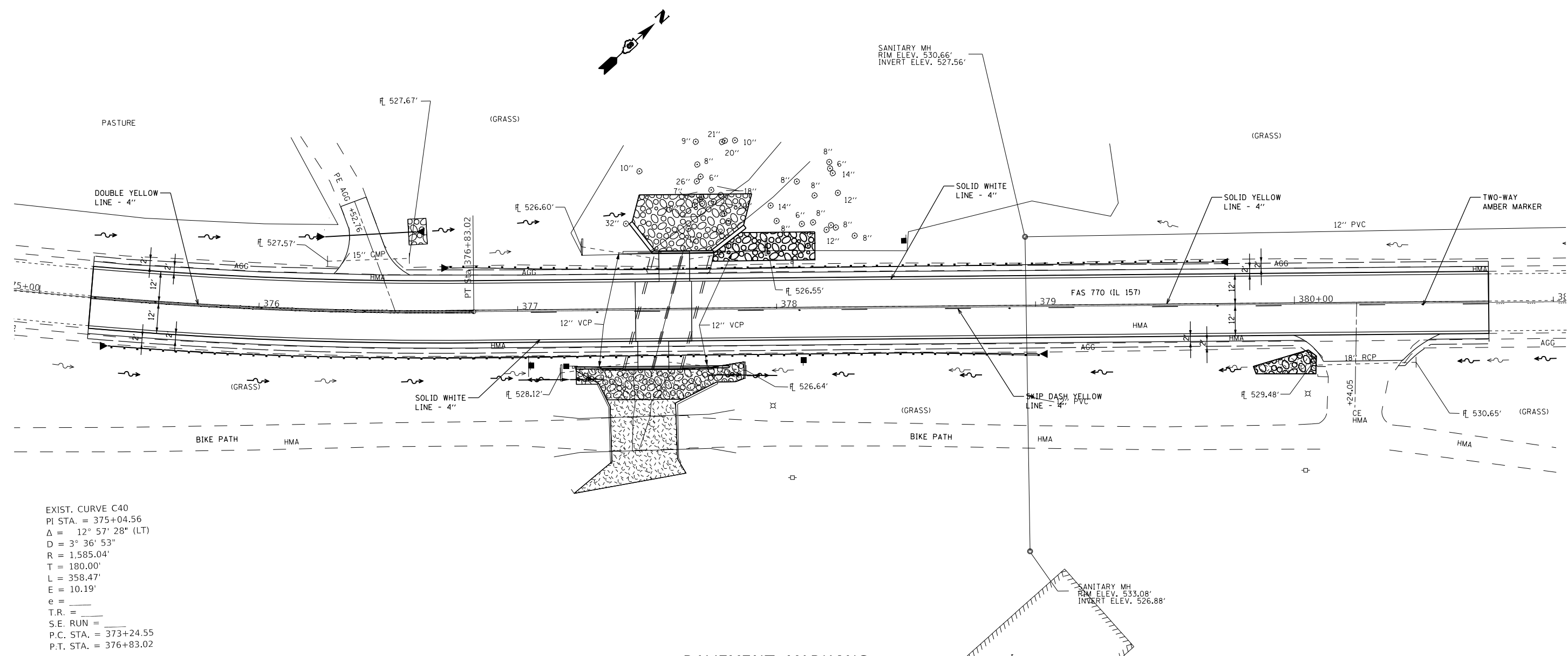
STATE OF ILLINOIS)
) SS
 COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
 GREGORY S. McVICAR, PLS NO. 3512
 LICENSE EXPIRATION DATE: 11/30/2018



COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY: JANUARY, 2017		ROW STAKING:	
SA SHERRILL ASSOCIATES, INC. Engineers - Surveyors - Planners			
Professional Design Firm Number 184-001238			
316 North Main Street		Tel. 618-656-9251	
Edwardsville, IL 62025		Fax 618-656-9496	
ILLINOIS DEPARTMENT OF TRANSPORTATION PLAT OF HIGHWAYS FAS ROUTE 770 (IL 157) SECTION 66-BR MADISON COUNTY JOB NO. R-98-012-17 TOTAL HOLDING SKETCH & SECTION CORNER/CONTROL POINT TIES			
100' 0 100' 200'		SCALE: 1" = 100'	
		SHEET 4 OF 4	
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
770	66-BR	MADISON	41
			SHEET NO. 22
CONTRACT NO. 76J12			
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			



EXIST. CURVE C40
 PI STA. = 375+04.56
 $\Delta = 12^\circ 57' 28''$ (LT)
 $D = 3^\circ 36' 53''$
 $R = 1,585.04'$
 $T = 180.00'$
 $L = 358.47'$
 $E = 10.19'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 373+24.55$
 $P.T. STA. = 376+83.02$

PAVEMENT MARKING

STATIONING	THERMOPLASTIC PAVM'T MRKNG			TEMP PAVEMENT MARKING			TEMPORARY PAVEMENT MARKING REMOVAL SQ FT	SHORT-TERM PAVEMENT MARKING FOOT	SHORT-TERM PAVEMENT MARKING REMOVAL SQ FT	RRPM EACH	RRPM REMOVAL EACH
	LINE-4" SOLID (WHITE) FOOT	LINE-4" SOLID (YELLOW) FOOT	LINE-4" SKIP DASH (YELLOW) FOOT	LINE-4" SOLID (WHITE) FOOT	LINE-4" SOLID (YELLOW) FOOT	LINE-4" SKIP DASH (YELLOW) FOOT					
375+35.00 TO 376+83.02	296.04	296.04		296.04	296.04		197.36	14.80	4.93	3.00	3.00
376+83.02 TO 380+75.02	784.00	392.00	98.00	784.00	392.00	98.00	424.67	39.20	13.07	5.00	5.00
SUBTOTAL	1080.04	688.04	98.00	1080.04	688.04	98.00	622.03	54.00	18.00	8.00	8.00
TOTAL	1867.0			1867.0			623.0	54.0	18.0	8.0	8.0

MODEL: \\MODELNAME
 FILE NAME: \\FILENAME
 PROJECT: \\PROJECTNAME
 OFFICE: \\OFFICE
 DATE: \\DATE

USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING	
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS
STA. TO STA.	

F.A.S. RTE. 770	SECTION 66-BR	COUNTY MADISON	TOTAL SHEETS 41	SHEET NO. 23
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

Benchmark BM 157-26: RR spike driven 1' above the ground on the north side of PP located 31' south of the center of IL 140, 77' east of the center of IL 157, and 36' west of the center of Wolf Avenue in Hamel. Approximate Lat. & Long.: N38°50'20"; 89°50'40"

Existing Structure: SN 060-2454 was built in 1921 as a single span reinforced concrete slab bridge supported on reinforced concrete vertical abutments. The original bridge length is 24'-0" end to end slab with no skew, and widened at unknown date with 12'x8' reinforced concrete culvert extensions on the east and west sides of the bridge with total out-to-out width of 45'-0".

Traffic to be detoured during construction.

No salvage.

WATERWAY INFORMATION

Drainage Area = 2.06 sq. mi.		Existing Overtopping Elev. 530.4 ft. @ Sta. 378+00.00		Proposed Overtopping Elev. 531.4 ft. @ Sta. 378+00.00		
Flood	Freq. Yr.	Discharge C.F.S.	Opening Ft ² Exist. Prop.	Natural H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	10	630	94 166	527.3	0.9 0.6	528.2 527.9
Base	50	1020	96 200	529.2	1.9 1.2	531.1 530.4
Exist. Overtopping	100	1200	96 200	529.9	2.4 1.6	532.3 531.5
Prop. Overtopping	35	950	96 --	528.9	1.7 --	530.6 --
Scour Check	100	1200	-- 200	529.9	-- 1.6	-- 531.5
Max. Calc.	200	1380	96 200	530.5	2.8 1.8	533.3 532.3
	500	1630	96 200	531.3	2.2 2.0	533.5 533.3

10 year outlet velocity from existing structure = 6.7 ft./sec.
10 year outlet velocity from proposed structure = 3.8 ft./sec.

GENERAL NOTES

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

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq Yd	162
Filter Fabric	Sq Yd	162
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	32
Concrete Structures	Cu Yd	13.1
Stud Shear Connectors	Each	128
Reinforcement Bars	Pound	31,140
Name Plates	Each	1
Furnishing Soldier Piles (W Section)	Foot	303
Drilling and Setting Soldier Piles (In Soil)	Cu Ft	962
Untreated Timber Lagging	Sq Ft	402
Concrete Box Culverts	Cu Yd	150.7
Geocomposite Wall Drain	Sq Yd	13
Strong Post Guardrail Attached to Culvert	Foot	47
Membrane Waterproofing System for Buried Structures	Sq Yd	132

*This pay item is for 2' in front of the CIP facing of the soldier pile walls, not for the culvert. Excavation for the culvert is included with Concrete Box Culverts.

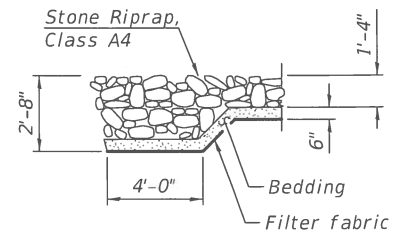
STATION 377+58.00
BUILT 20-- BY
STATE OF ILLINOIS
F.A.S. RTE. 770 Sec. 66-BR
LOADING HL-93
STRUCTURE NO. 060-2052

NAME PLATE
See Std. 515001

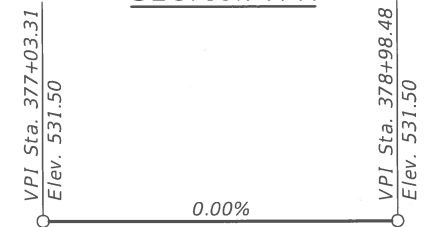


INDEX OF SHEETS

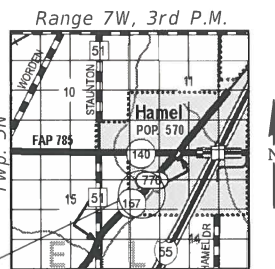
- 1 - General Plan and Elevation
- 2-4 - Culvert Details
- 5-7 - Wingwall Details
- 8-9 - Boring Logs



SECTION A-A



PROFILE GRADE
Along Roadway



LOCATION SKETCH

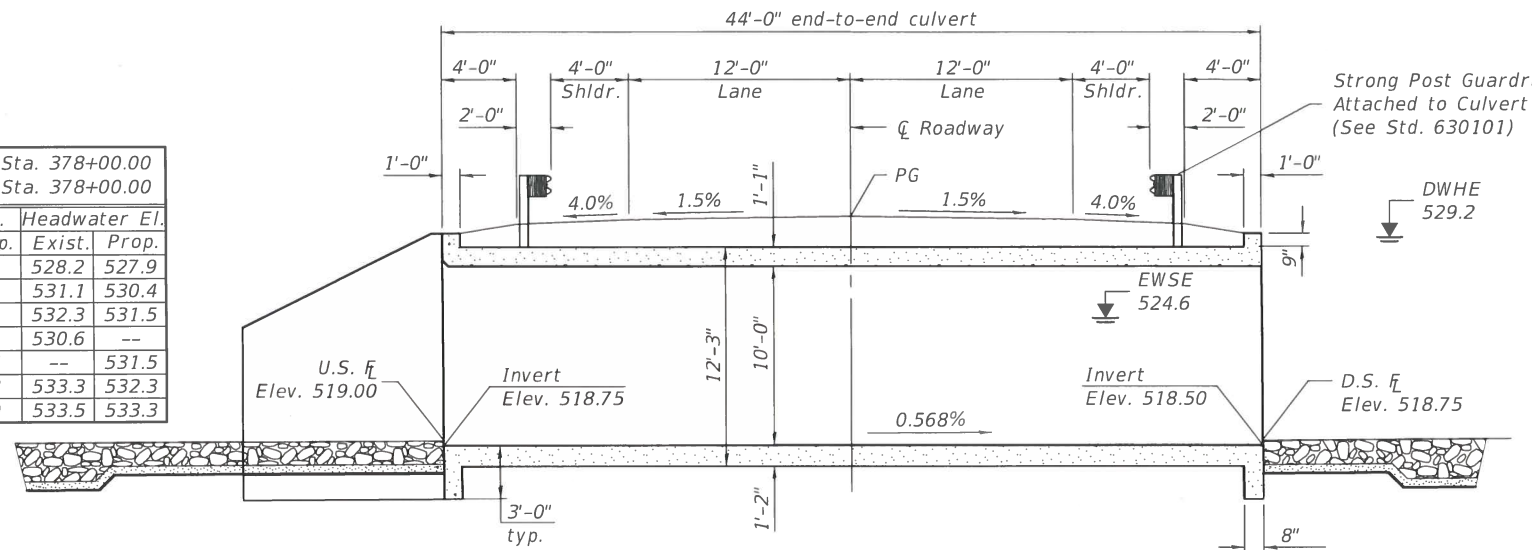
DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

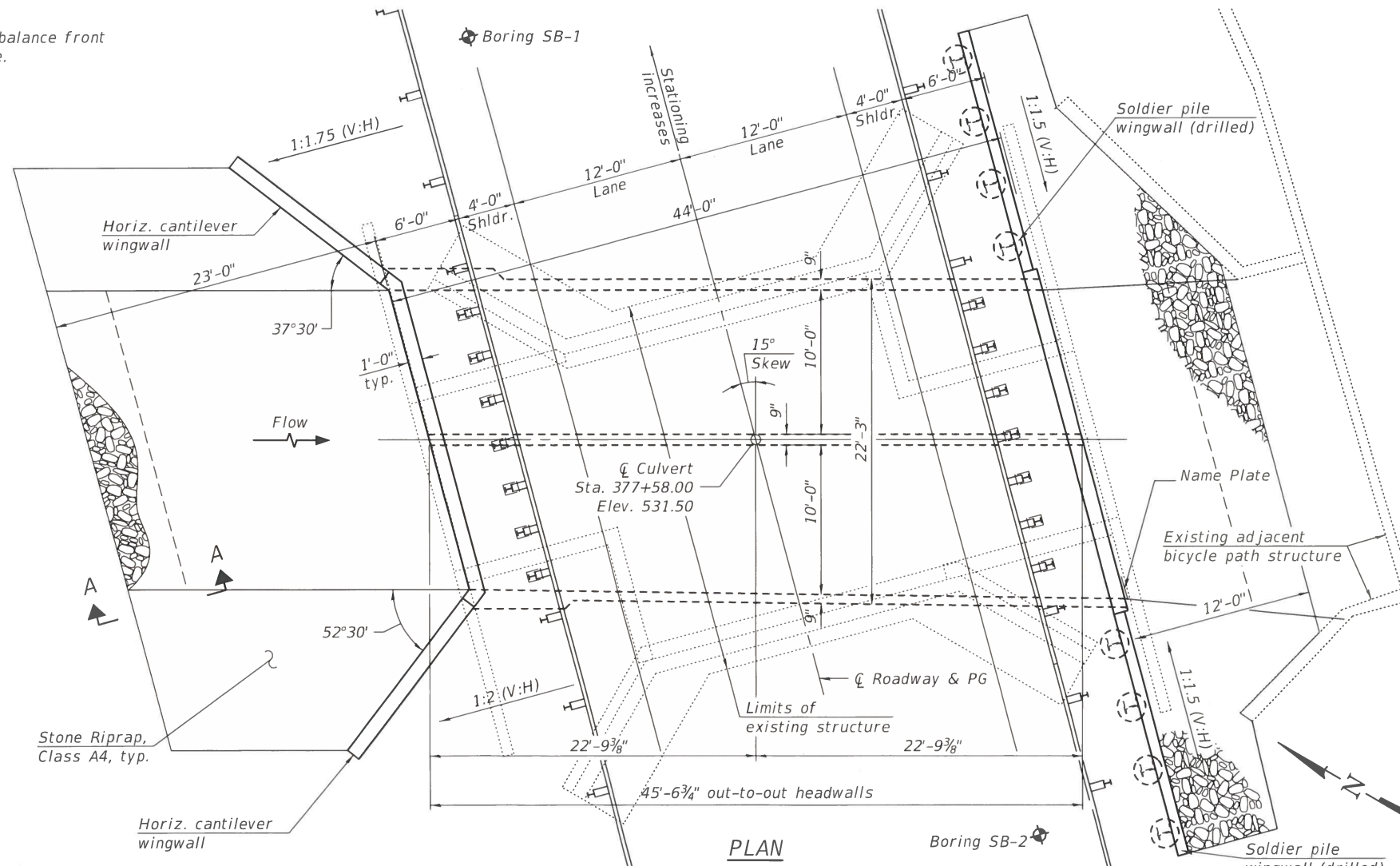
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Soldier Piles)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.



LONGITUDINAL SECTION
(Horizontal dimensions are at right angles)



PLAN

GENERAL PLAN & ELEVATION
IL RTE. 157 OVER
TRIBUTARY TO SILVER CREEK
F.A.S. RTE. 770, SEC. 66-BR
MADISON COUNTY
STATION 377+58.00
STRUCTURE NO. 060-2052

MODEL: 0602052-76F18-GPE-001
FILE NAME: C:\Users\pdpda\0602052-76F18-GPE.dgn

DESIGNED - <i>[Signature]</i>	EXAMINED - <i>[Signature]</i>	DATE - 12/12/2018
CHECKED - <i>[Signature]</i>	PASSED - <i>[Signature]</i>	REVISIONS -
DRAWN - <i>[Signature]</i>		
CHECKED - <i>[Signature]</i>		

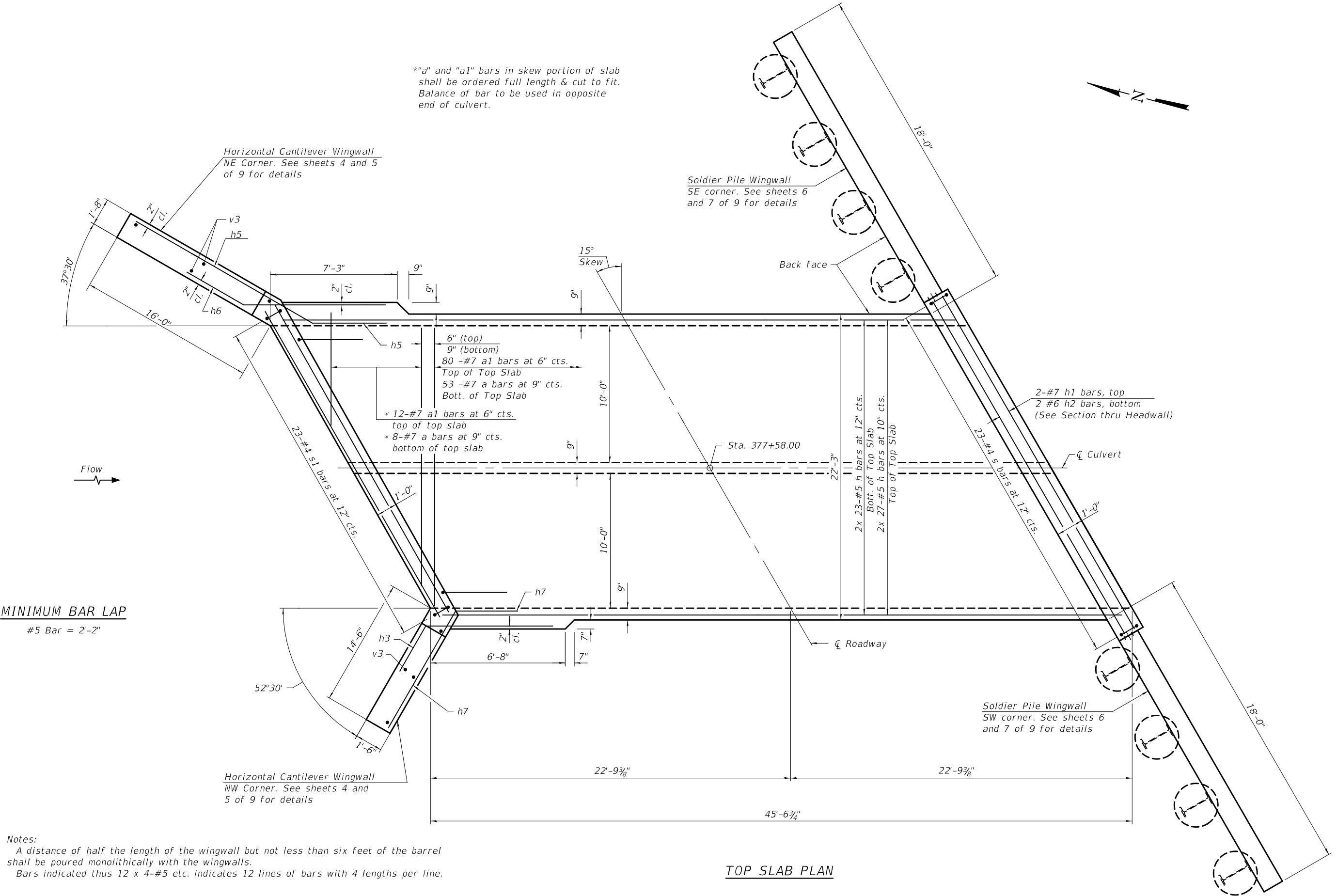
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 060-2052

SHEET 1 OF 9 SHEETS

F.A.S. RTE. 770	SECTION 66-BR	COUNTY MADISON	TOTAL SHEETS 41	SHEET NO. 24
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

**"a" and "a1" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.



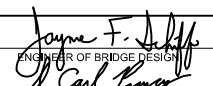

MINIMUM BAR LAP
#5 Bar = 2'-2"

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

TOP SLAB PLAN

MODEL: Default
FILE NAME: C:\Users\popdai\060205210602052-76112-002-TopSlab.dgn
12/13/2018 10:45:09 AM

DESIGNED - Alex J. Rush	EXAMINED
CHECKED - David Salgado	PASSED
DRAWN - Ben Fields	
CHECKED - AJR/JGY/GRA	


 ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 12, 2018
REVISED -
REVISED -

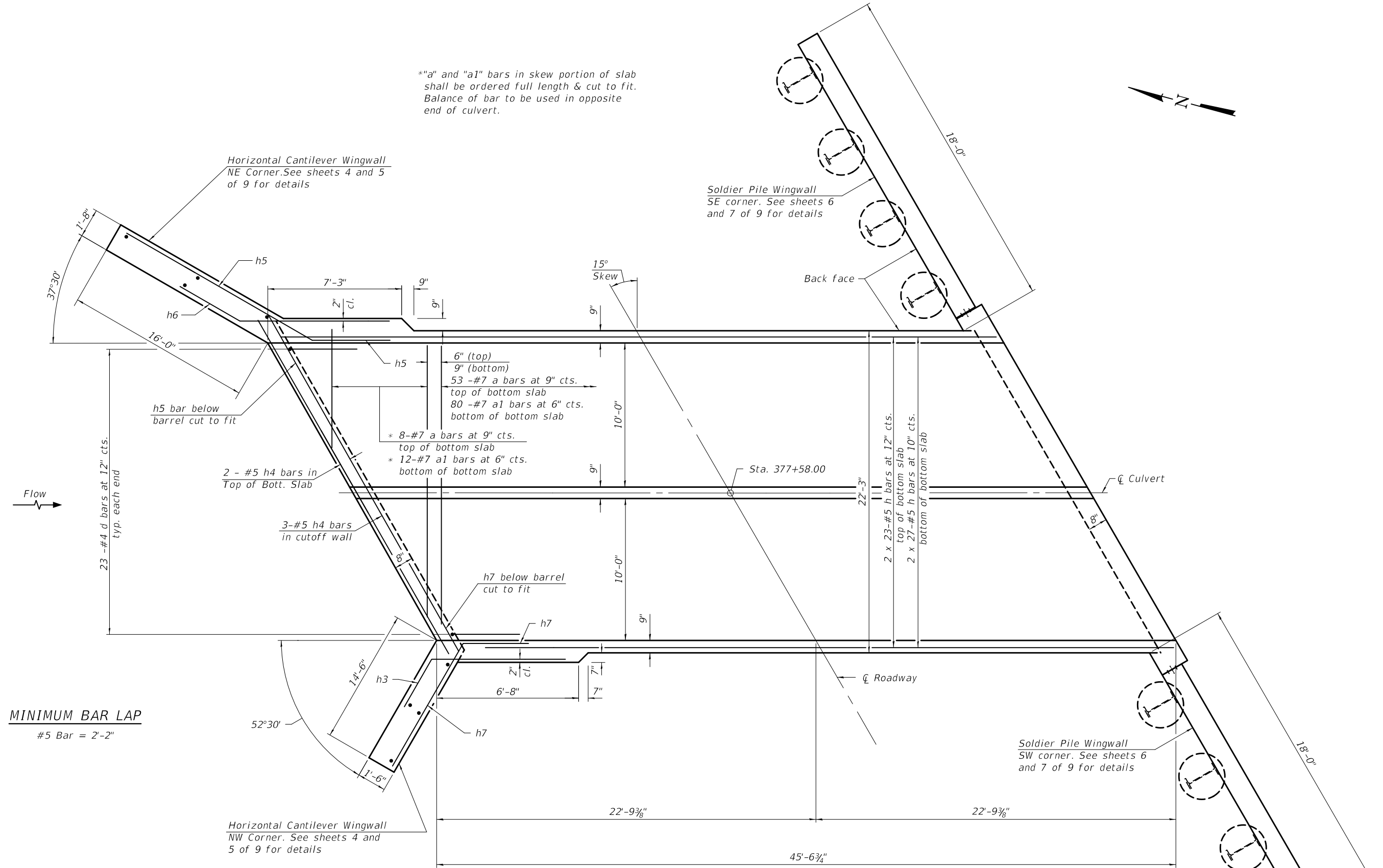
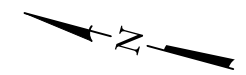
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS-TOP SLAB
STRUCTURE NO. 060-2052**

SHEET 2 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	25
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

**"a" and "a1" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.



MINIMUM BAR LAP
#5 Bar = 2'-2"

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

BOTTOM SLAB PLAN

MODEL: Default
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12/13/2018 10:46:15 AM

DESIGNED -	Alex J. Rush
CHECKED -	David Salgado
DRAWN -	Ben Fields
CHECKED -	AJR/JGY/GRA

EXAMINED	 ENGINEER OF BRIDGE DESIGN	DATE -	DECEMBER 12, 2018
PASSED		 ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

REVISED -	
REVISED -	

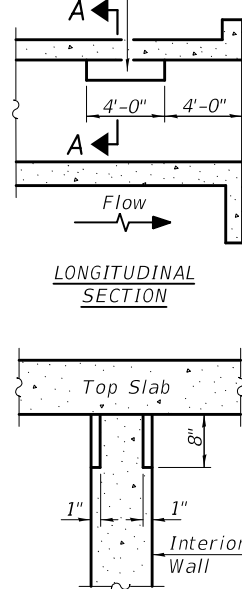
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS - BOTTOM SLAB
STRUCTURE NO. 060-2052**

SHEET 3 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	26
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

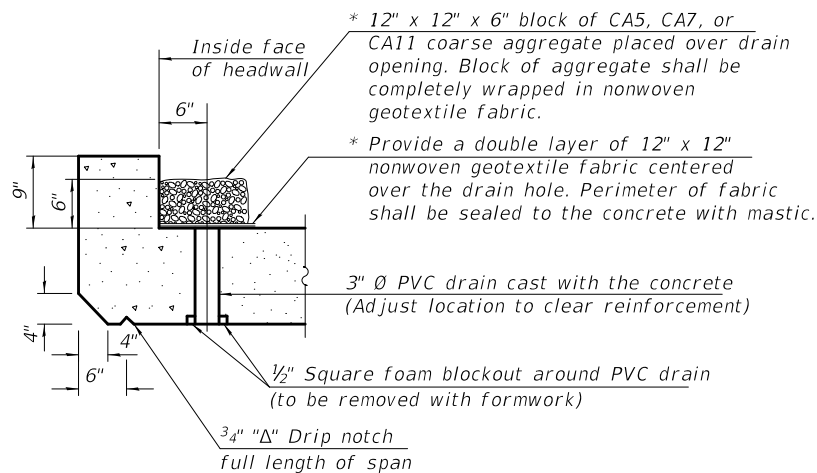
Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



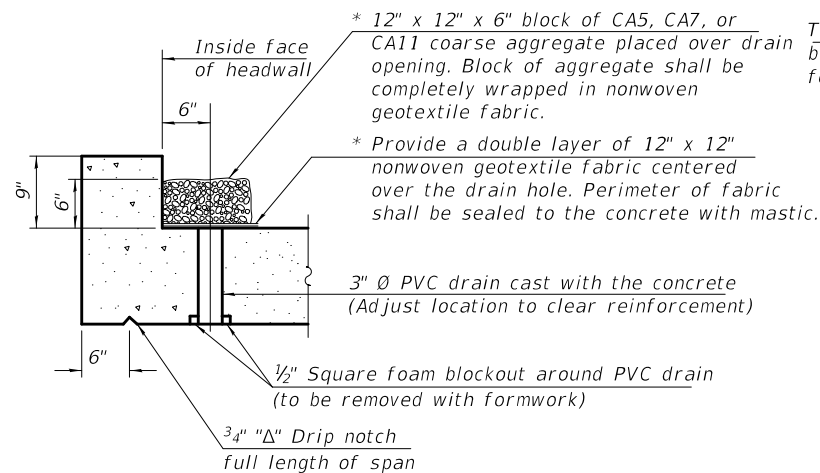
SECTION A-A

PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



AT UPSTREAM END

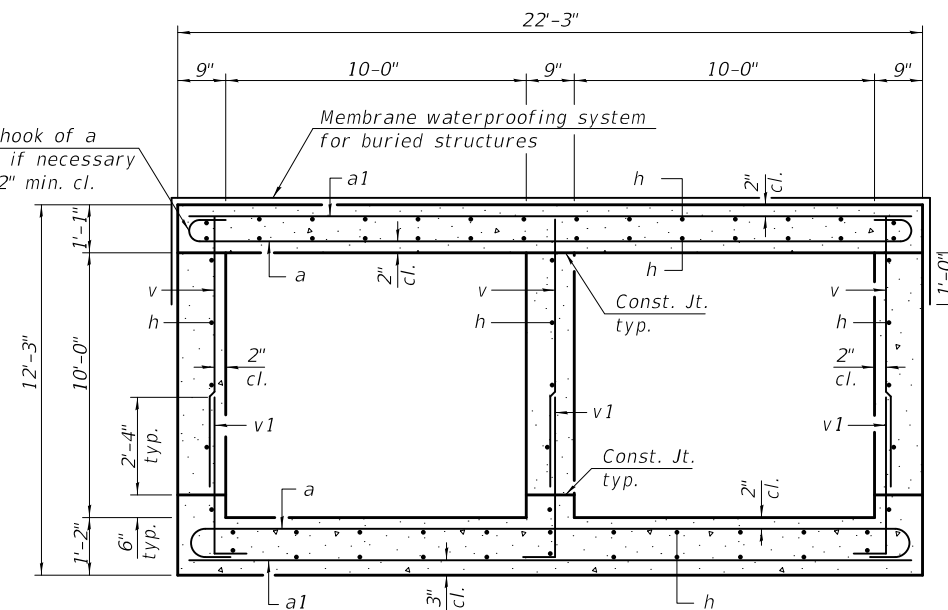


AT DOWNSTREAM END

DRAIN DETAIL

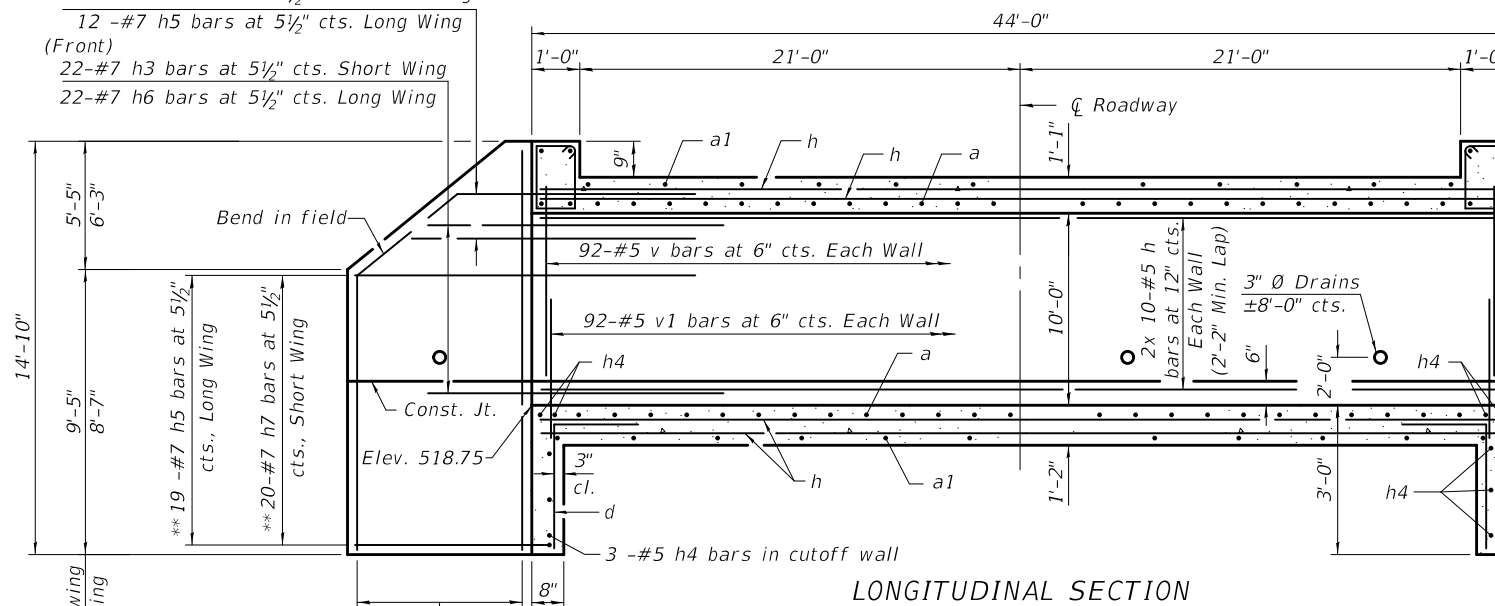
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

Tilt hook of a bars if necessary for 2" min. cl.



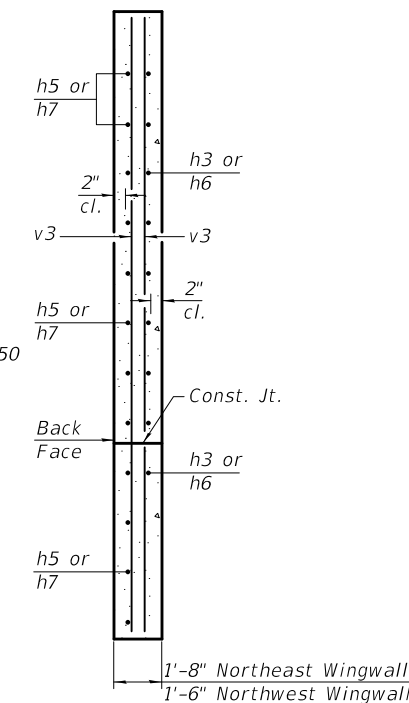
SECTION THRU BARREL

- (Back) 11 -#7 h7 bars at 5 1/2" cts. Short Wing
- 12 -#7 h5 bars at 5 1/2" cts. Long Wing
- (Front) 22 -#7 h3 bars at 5 1/2" cts. Short Wing
- 22 -#7 h6 bars at 5 1/2" cts. Long Wing



LONGITUDINAL SECTION

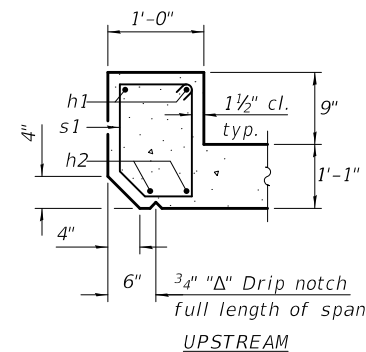
(Dimensions at Rt. L's to C Roadway)



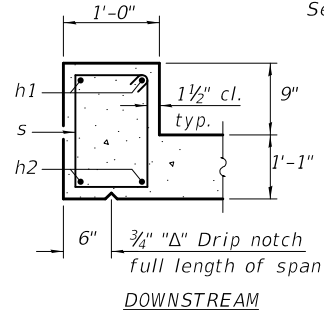
SECTION B-B

BILL OF MATERIAL

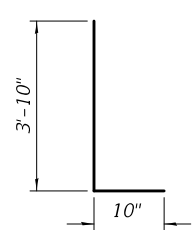
Bar	No.	Size	Length	Shape
a	122	#7	23'-7"	U
a1	184	#7	21'-11"	—
d	46	#4	4'-5"	L
h	260	#5	23'-9"	—
h1	4	#7	22'-8"	—
h2	4	#6	22'-8"	—
h3	22	#7	10'-4"	—
h4	10	#5	22'-8"	—
h5	31	#7	20'-6"	—
h6	22	#7	11'-7"	—
h7	31	#7	18'-1"	—
h8	60	#5	17'-8"	—
s	23	#4	5'-5"	U
s1	23	#4	5'-3"	U
v	282	#5	10'-5"	—
v1	276	#5	4'-8"	—
v3	8	#4	14'-6"	—
v4	72	#4	14'-6"	—
Concrete Box Culverts			Cu. Yd.	150.7
Reinforcement Bars			Pound	31,140



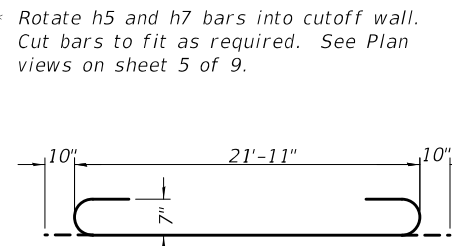
SECTION THRU HEADWALL



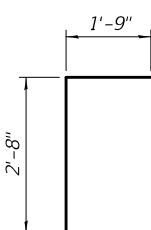
DOWNSTREAM



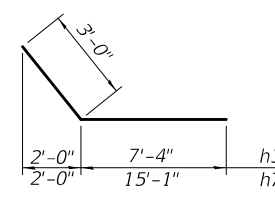
BAR v1



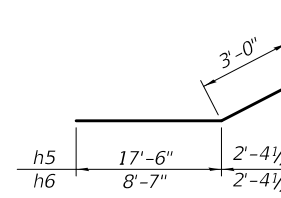
BAR a



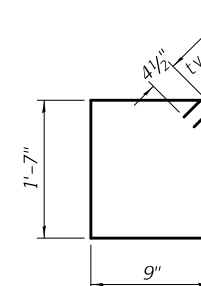
BAR d



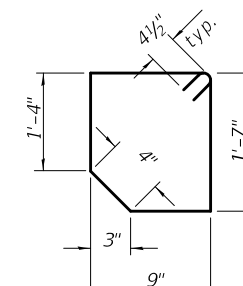
BARS h3 & h7



BARS h5 & h6



BAR s



BAR s1

** Rotate h5 and h7 bars into cutoff wall. Cut bars to fit as required. See Plan views on sheet 5 of 9.

MODEL: Default
FILE NAME: C:\Users\popadai\0602052\0602052-76112-004-Details\BarrelSections.dgn

DESIGNED -	Alex J. Rush
CHECKED -	David Salgado
DRAWN -	Ben Fields
CHECKED -	AJR/JGY/GRA

EXAMINED	<i>Joanne F. Joffe</i>
PASSED	<i>Carl King</i>

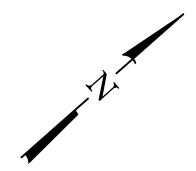
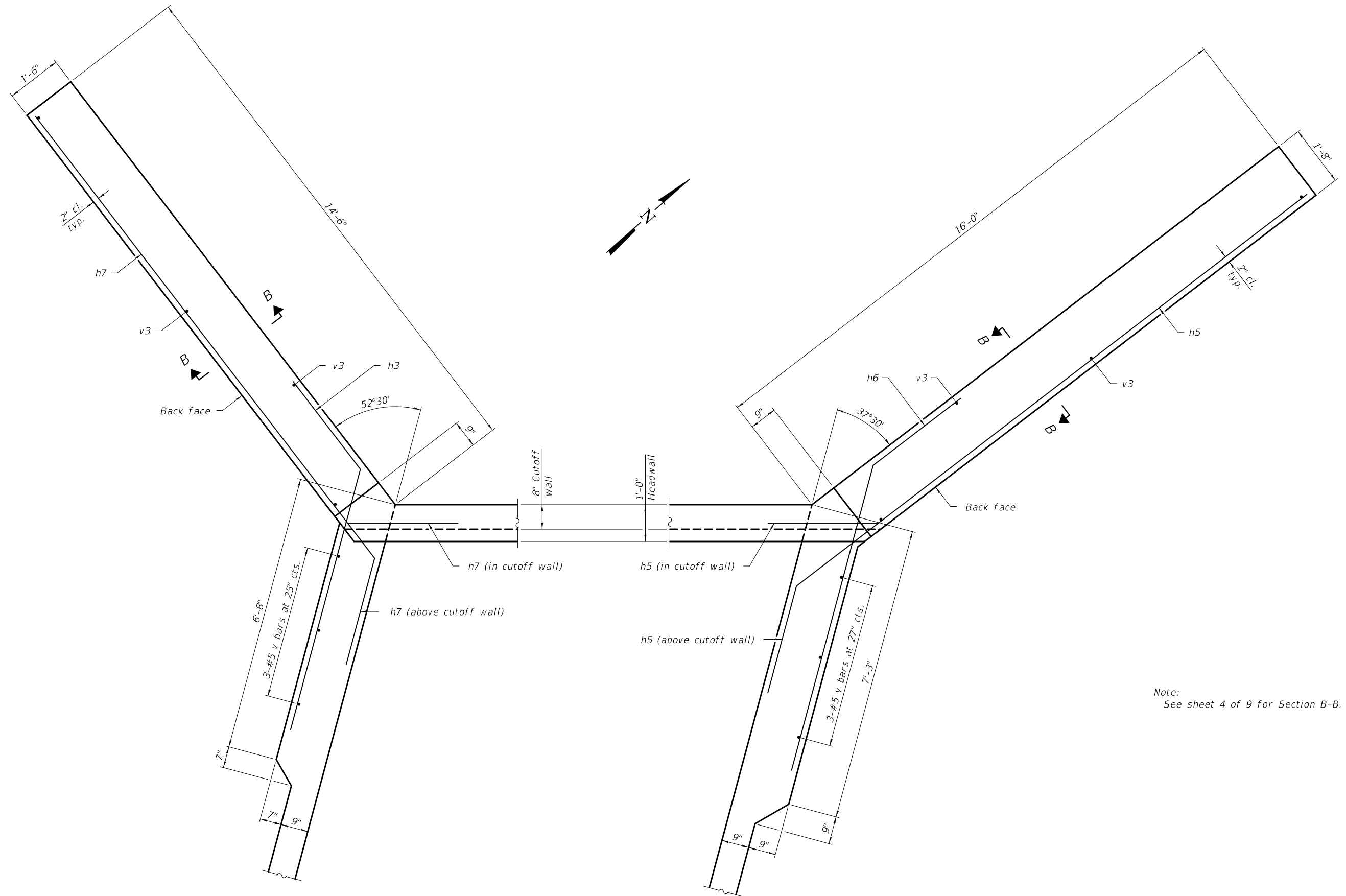
DATE -	DECEMBER 12, 2018
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 060-2052

SHEET 4 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	27
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				



PLAN
(Northwest wingwall)

PLAN
(Northeast wingwall)

Note:
See sheet 4 of 9 for Section B-B.

MODEL: Default
FILE NAME: C:\Users\popdal\0602052\0602052-76112-005-Details\Horiz\CantWing.dgn
12/13/2018 10:47:20 AM

DESIGNED -	Alex J. Rush
CHECKED -	David Salgado
DRAWN -	Ben Fields
CHECKED -	AJR/JGY/GRA

EXAMINED	<i>Joanne F. Salvo</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Pinner</i> ENGINEER OF BRIDGES AND STRUCTURES

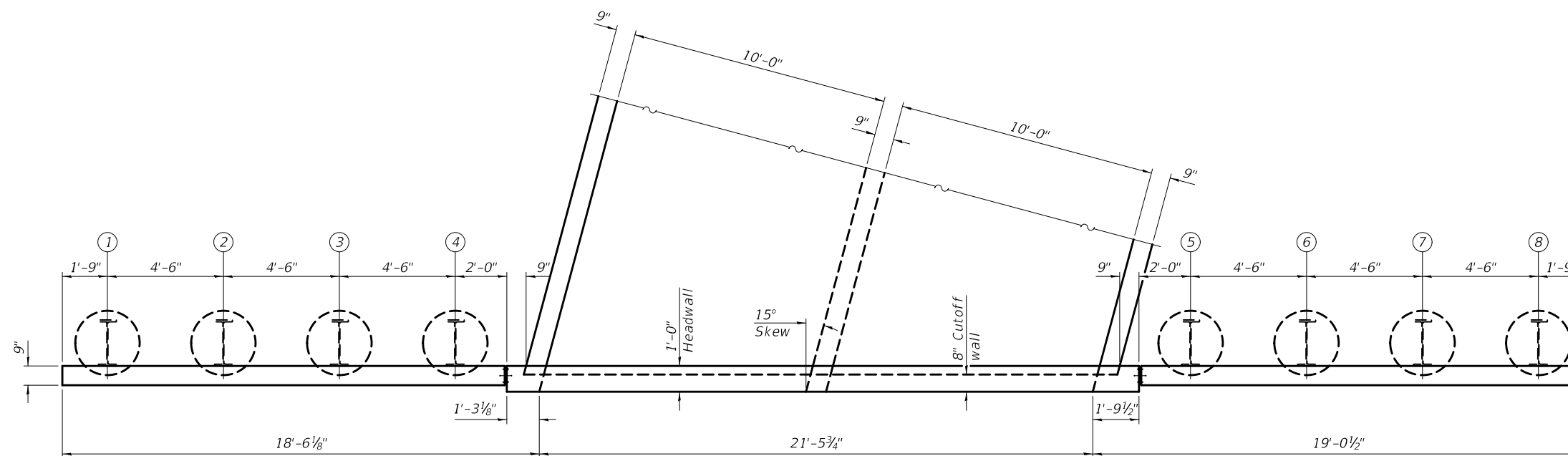
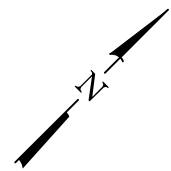
DATE -	DECEMBER 12, 2018
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

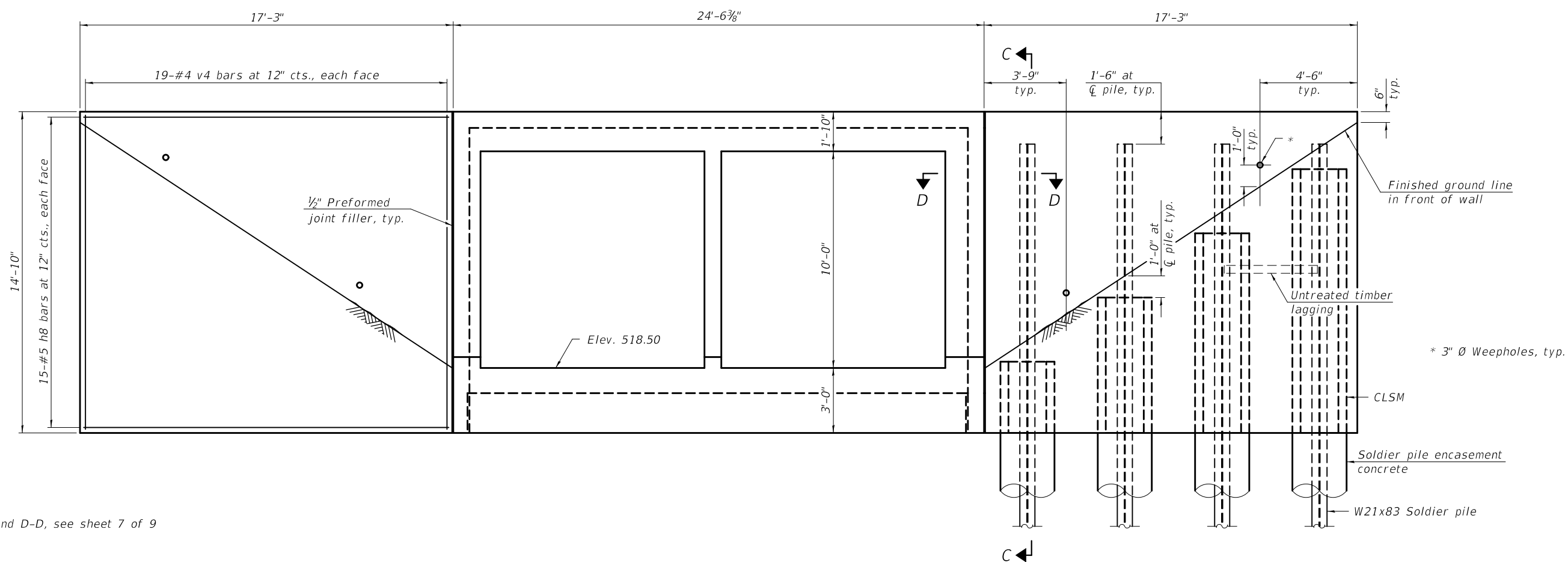
WINGWALL DETAILS
STRUCTURE NO. 060-2052

SHEET 5 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	28
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				



PLAN



ELEVATION

Note:
For section C-C and D-D, see sheet 7 of 9

SHOWING WINGWALL REINFORCEMENT
(Piles and encasement omitted for clarity)

SHOWING PILES
(Reinforcement omitted for clarity)

MODEL: Default
FILE NAME: C:\Users\popdai\060205210602052-76112-006-Details\SoldierWing.dgn
12/13/2018 11:25:06 AM

DESIGNED -	Alex J. Rush
CHECKED -	David Salgado
DRAWN -	Ben Fields
CHECKED -	AJR/JGY/GRA

EXAMINED	<i>Joanne F. J. [Signature]</i>
PASSED	<i>Carl [Signature]</i>
ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	DECEMBER 12, 2018
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
STRUCTURE NO. 060-2052

SHEET 6 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	29
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

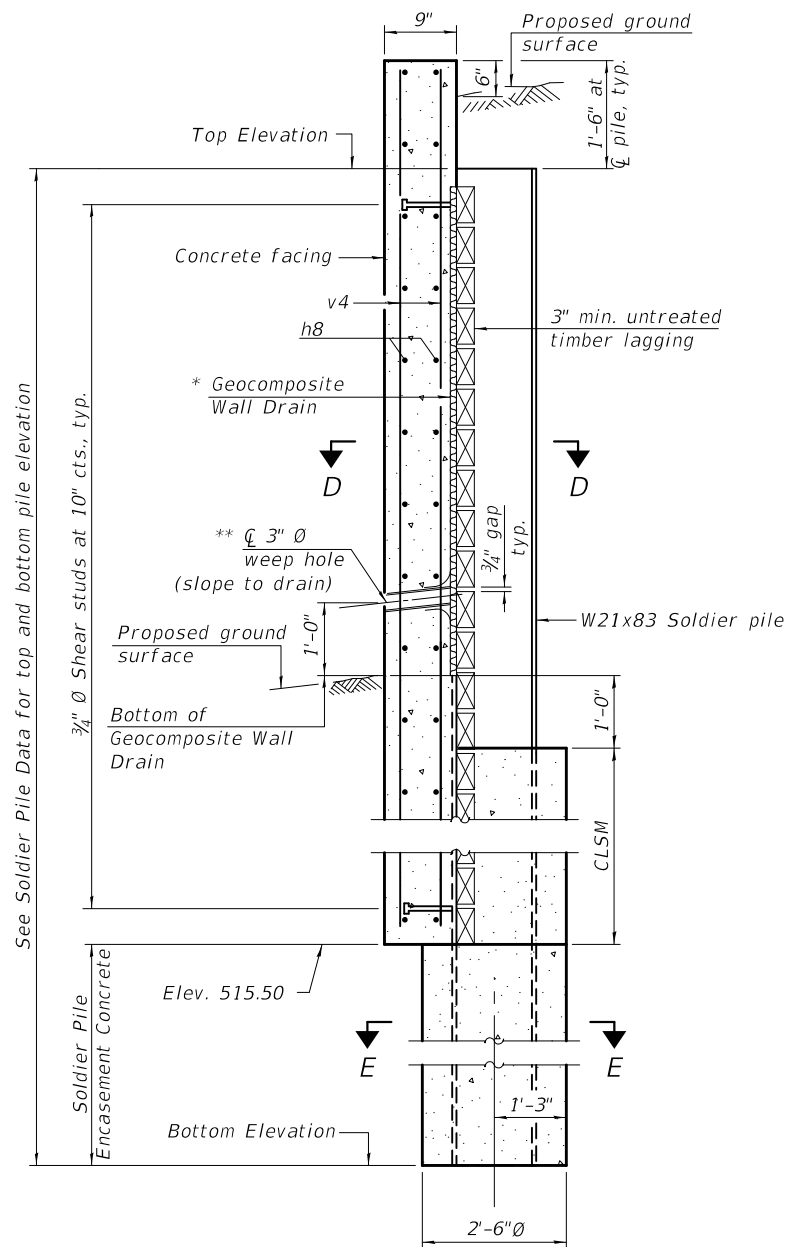
SOLDIER PILE WINGWALL CONSTRUCTION SEQUENCE

1. Construct concrete box culvert.
2. Drill and set soldier piles (may be completed prior to completing construction of box culvert).
3. Install timber lagging and geocomposite wall drain.
4. Place and compact backfill behind wingwall to top of timber lagging.
5. Install shear stud connectors.
6. Place reinforcement and form concrete facing.
7. Cast concrete facing.
8. Place remainder of backfill to proposed ground surface elevations on both sides of wall (backfill front side of wall as much as possible before backfilling is completed).

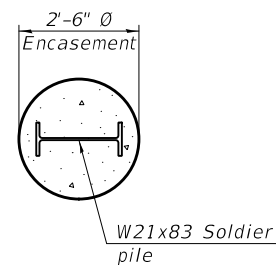
Notes:

In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 ft of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems.
 The Contractor is responsible for the design and performance of the timber lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
 Concrete in soldier pile wall facing shall be paid for as Concrete Structures.

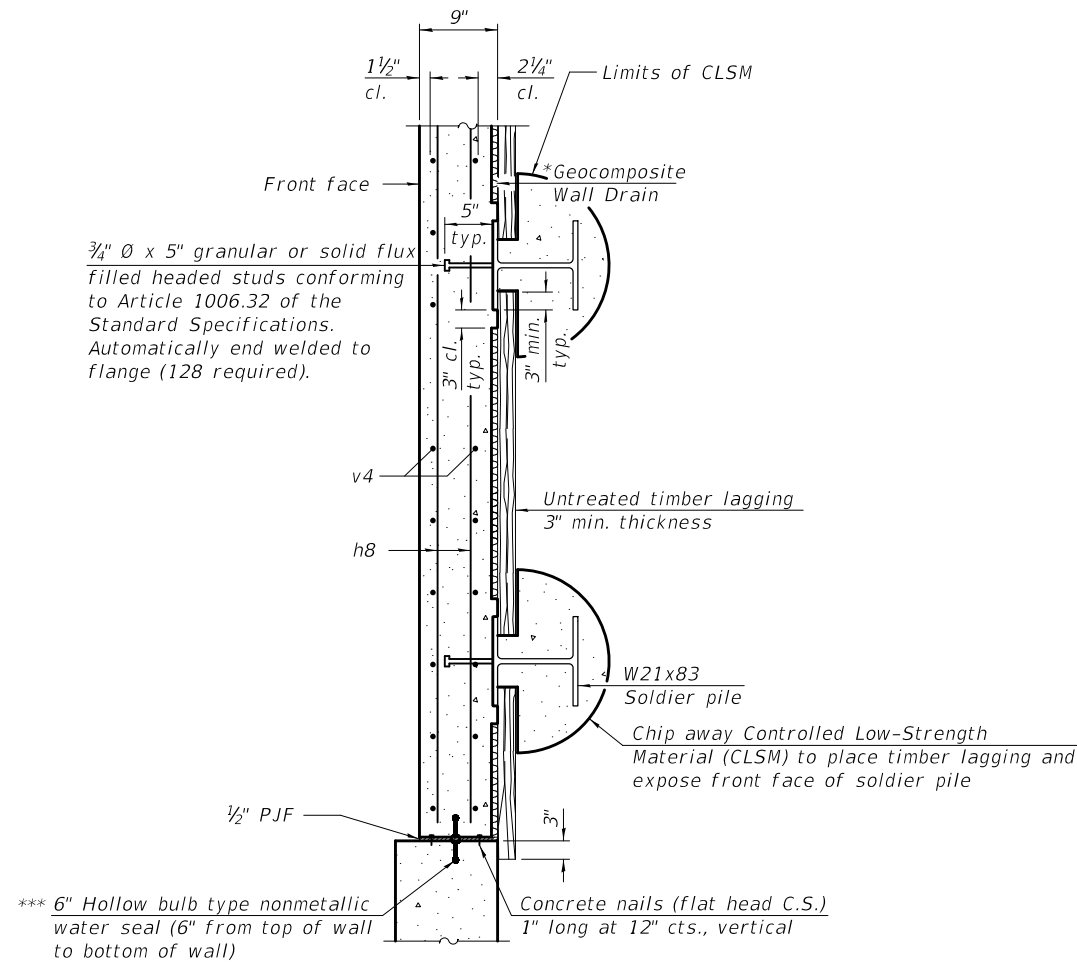
- * Geocomposite Wall Drain not to exceed thickness of 3/4".
- ** Cost of the weep hole drain and connection to the Geocomposite Wall Drain are included in the cost of Concrete Structures.
- *** Cost included with Concrete Box Culverts.



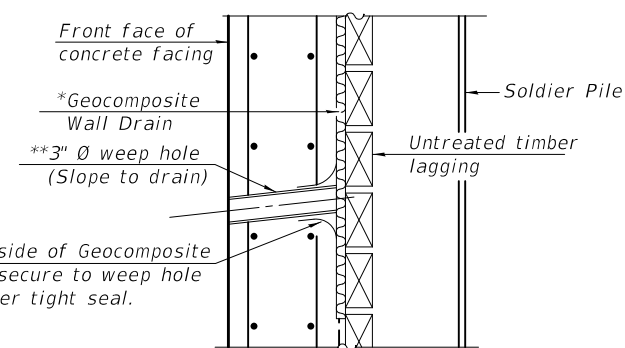
SECTION C-C
Section through Soldier Pile Wall



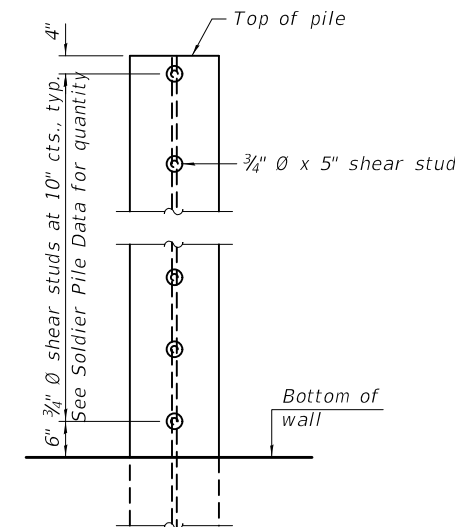
SECTION E-E



SECTION D-D



WEEP HOLE DRAIN DETAIL



SHEAR STUD DETAIL
(Elevation of pile shown)

SOLDIER PILE DATA

Soldier Pile	Pile Size	Top Elevation	Bottom Elevation	Total Height (Ft.)	Number of Shear Studs
1	W21x83	528.83	491.00	37'-10"	16
2	W21x83	528.83	491.00	37'-10"	16
3	W21x83	528.83	491.00	37'-10"	16
4	W21x83	528.83	491.00	37'-10"	16
5	W21x83	528.83	491.00	37'-10"	16
6	W21x83	528.83	491.00	37'-10"	16
7	W21x83	528.83	491.00	37'-10"	16
8	W21x83	528.83	491.00	37'-10"	16

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 12/13/2018 11:24:07 AM

DESIGNED - Alex J. Rush	EXAMINED
CHECKED - David Salgado	PASSED
DRAWN - Ben Fields	
CHECKED - AJR/JGY/GRA	

DATE - DECEMBER 12, 2018
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

REVISD -
REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
STRUCTURE NO. 060-2052

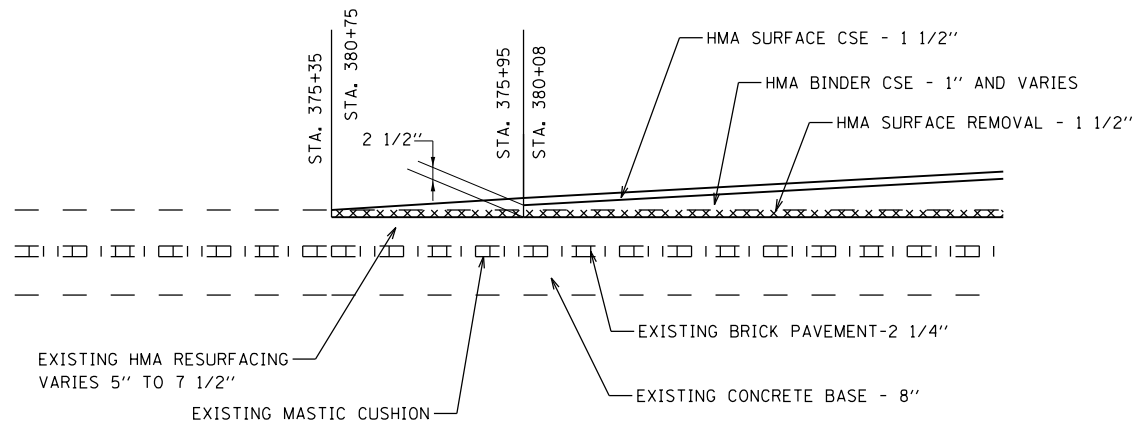
SHEET 7 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	30
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

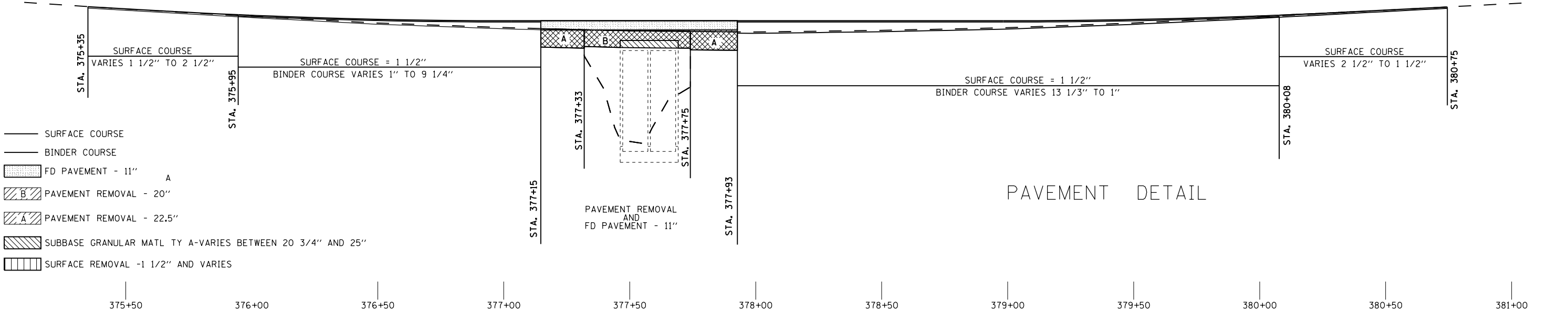
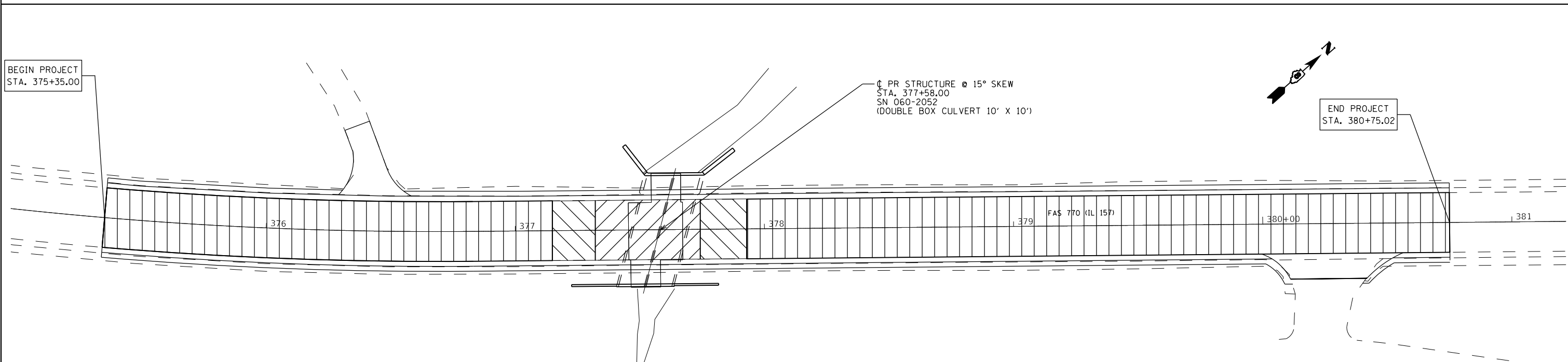
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	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	FILE NAME	
	NO.	
	BY	

PROFILE	SURVISED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	FILE NAME	
	NO.	
	BY	

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RESURFACING TRANSITION DETAIL



- SURFACE COURSE
- BINDER COURSE
- ▨ FD PAVEMENT - 11" A
- ▨ PAVEMENT REMOVAL - 20" B
- ▨ PAVEMENT REMOVAL - 22.5" A
- ▨ SUBBASE GRANULAR MATL TY A-VARIES BETWEEN 20 3/4" AND 25"
- ▨ SURFACE REMOVAL -1 1/2" AND VARIES

PAVEMENT DETAIL

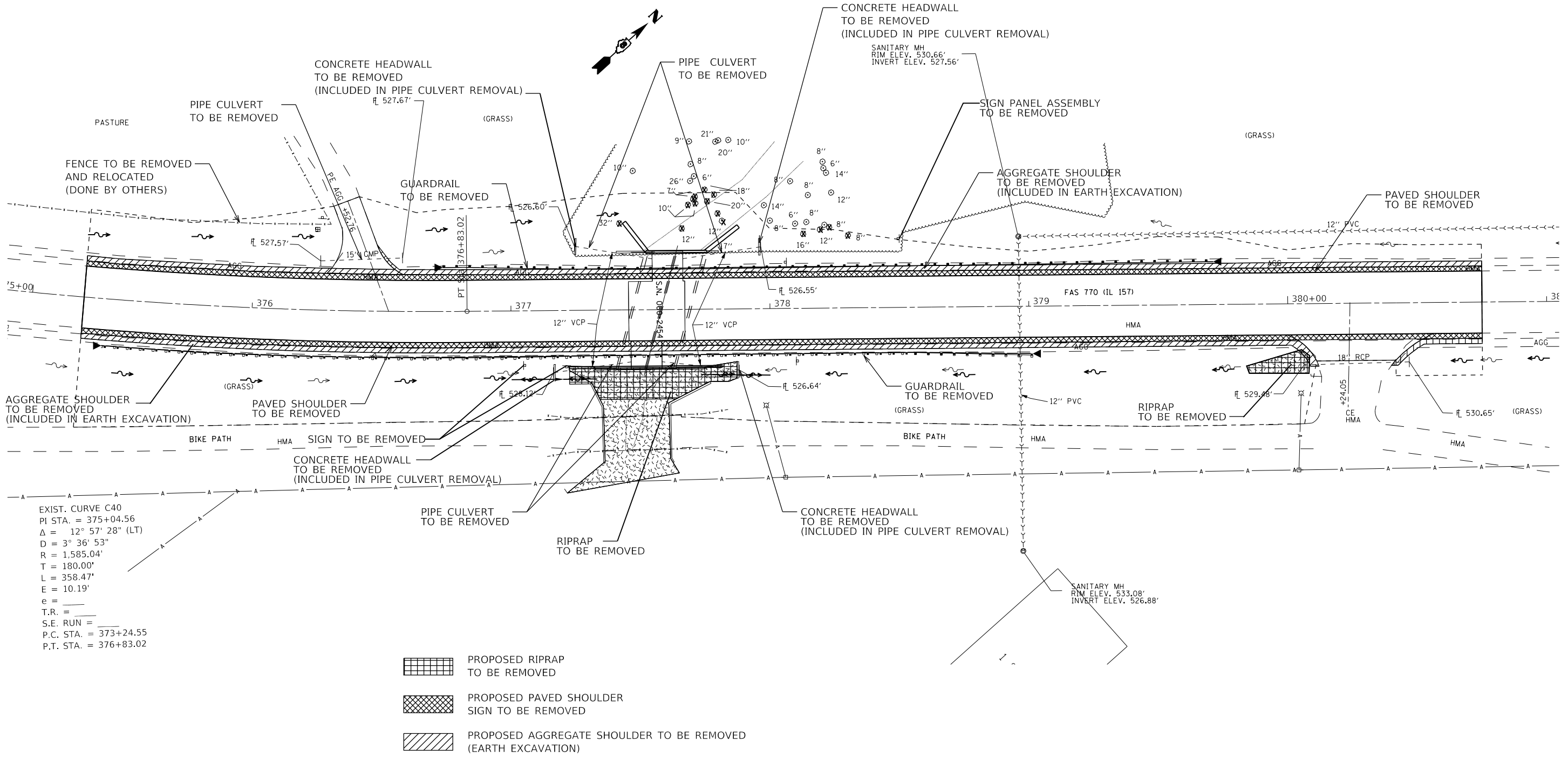
375+50	376+00	376+50	377+00	377+50	378+00	378+50	379+00	379+50	380+00	380+50	381+00
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USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE				SHEET 1 OF 1 SHEETS				STA. TO STA.			
-------------	--	--	--	---------------------	--	--	--	--------------	--	--	--

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	33
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE C40
 PI STA. = 375+04.56
 $\Delta = 12^\circ 57' 28''$ (LT)
 $D = 3^\circ 36' 53''$
 $R = 1,585.04'$
 $T = 180.00'$
 $L = 358.47'$
 $E = 10.19'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 373+24.55$
 $P.T. STA. = 376+83.02$

SEE SCHEDULES FOR LIMITS OF REMOVAL - (SHEETS * OF *)

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USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL DETAILS

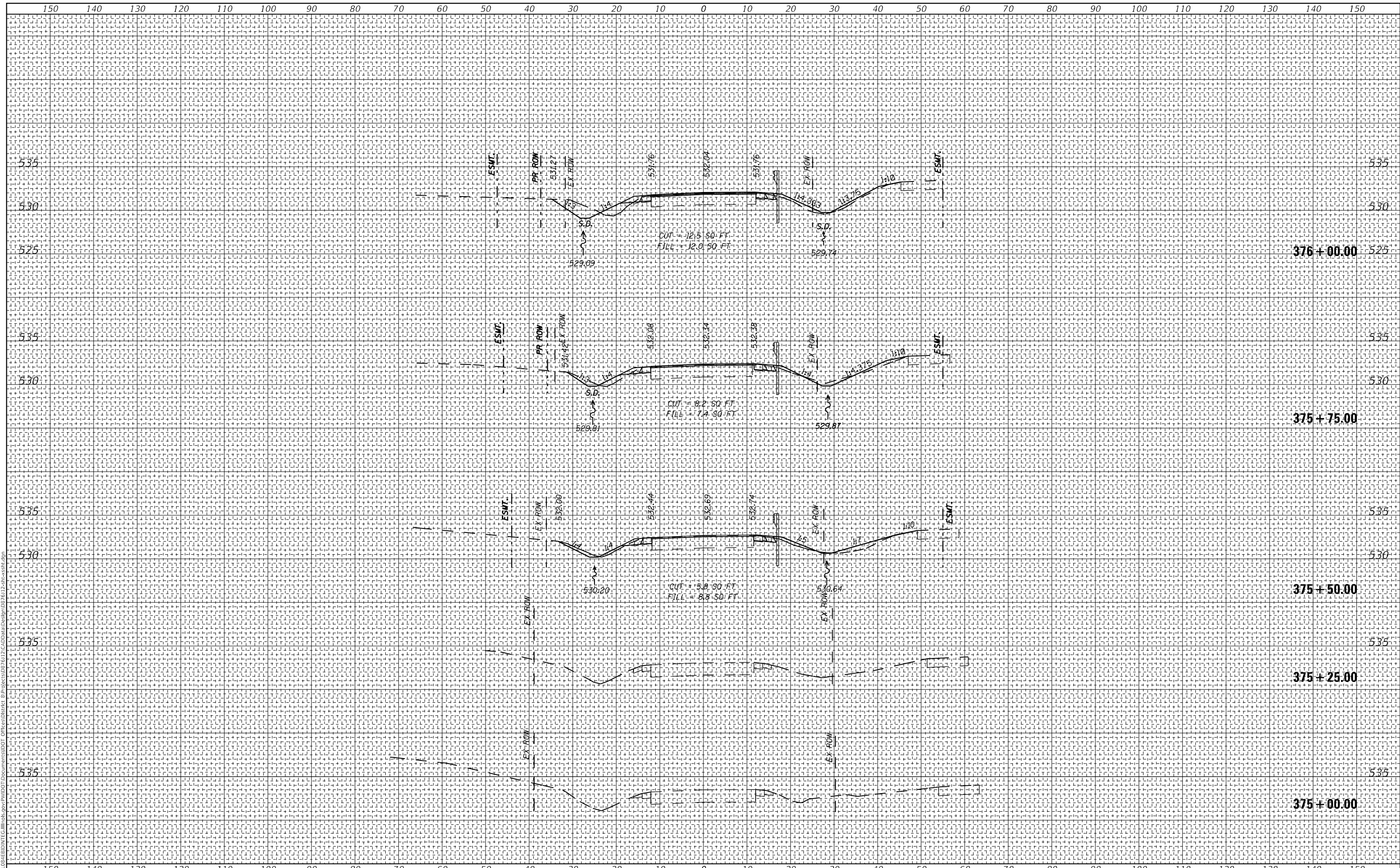
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	34
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = mnmn	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

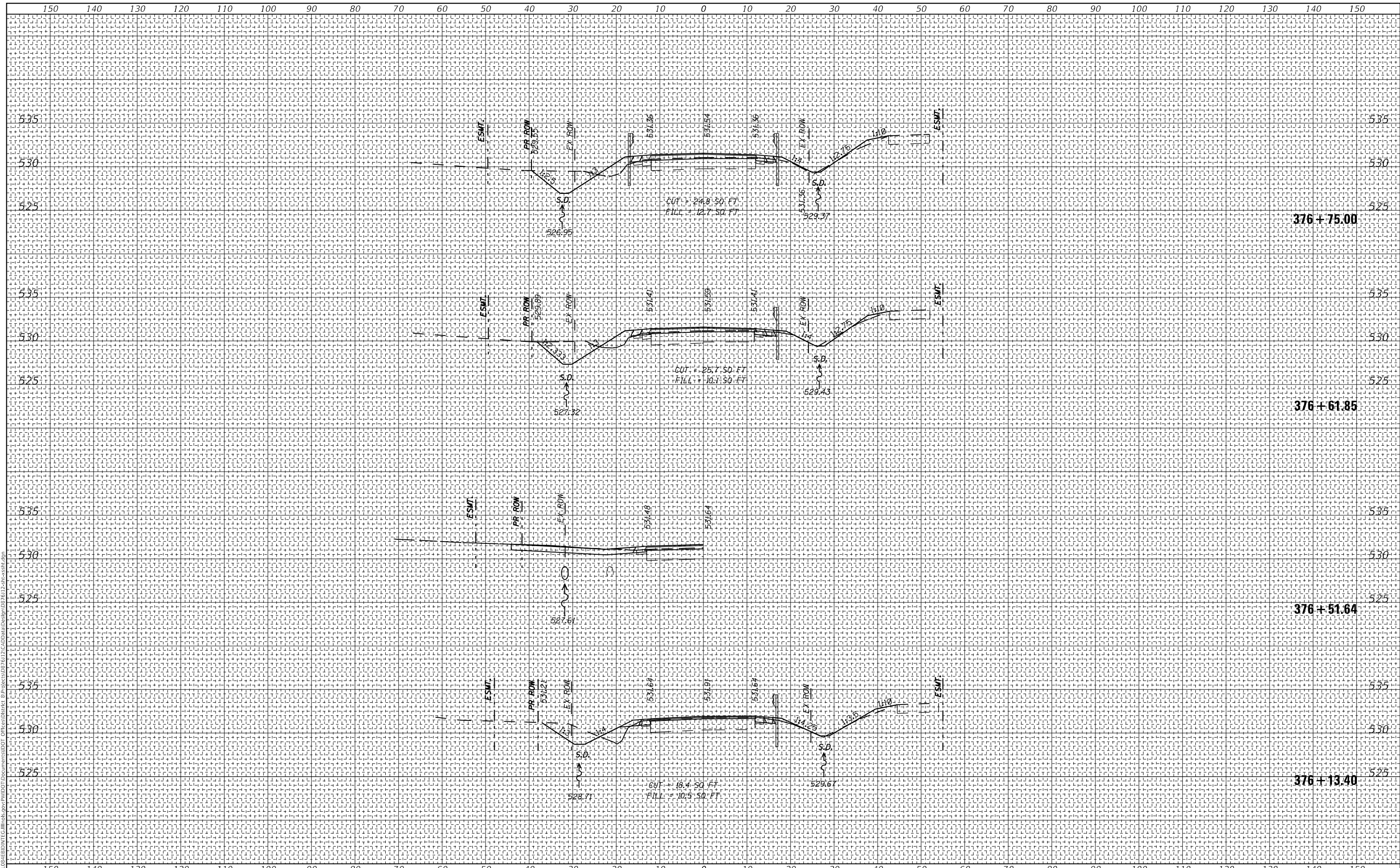
CROSS SECTIONS			
IL 157 OVER TRIBUTARY TO SILVER CREEK			
SCALE:	SHEET 1	OF 7 SHEETS	STA. 375+00.00 TO STA. 376+00.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	35
CONTRACT NO. 76112				
ILLINOIS FED. AID PROJECT				

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

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

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PLOT DATE = 10/19/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

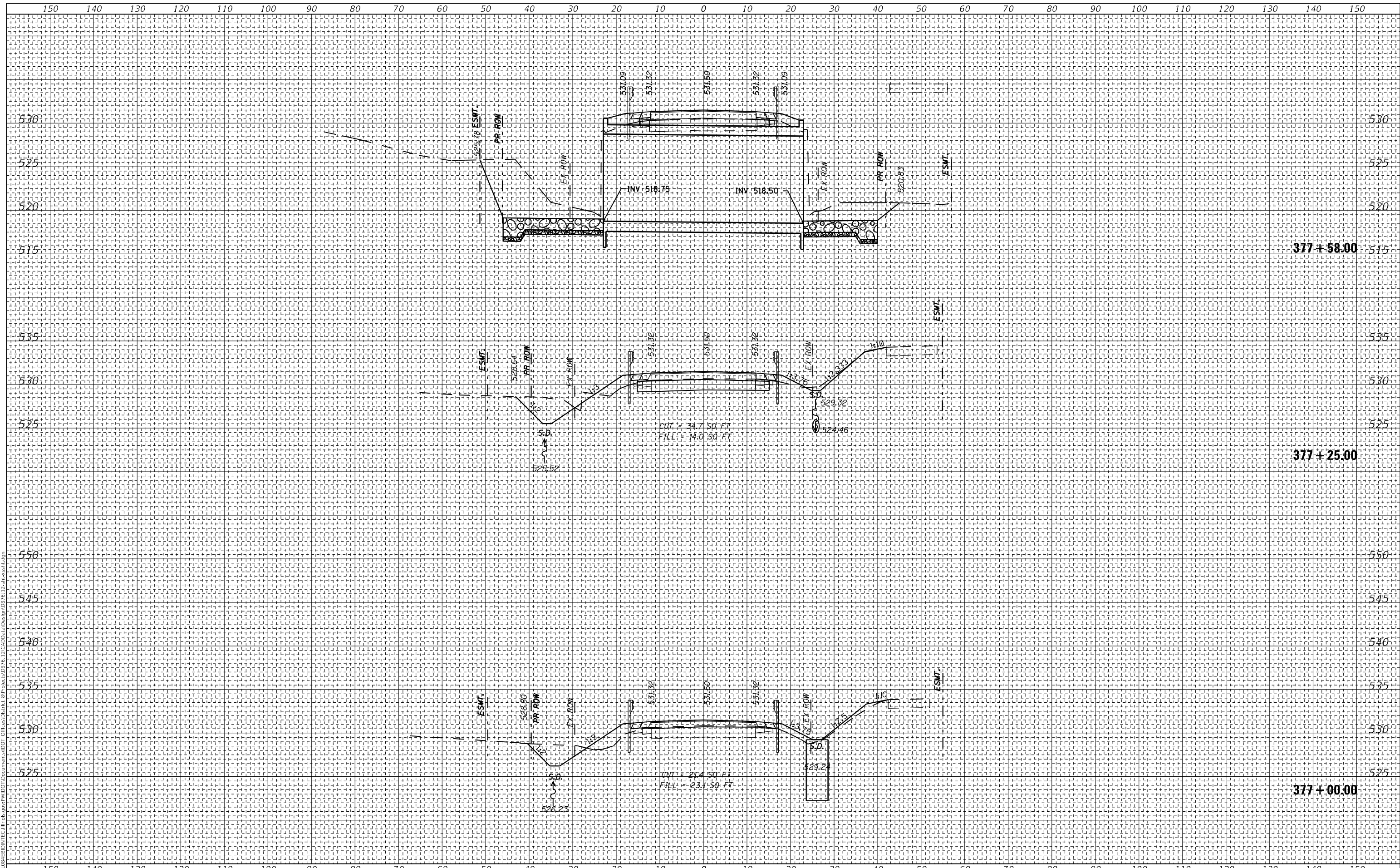
CROSS SECTIONS	
SCALE:	SHEET 2 OF 7 SHEETS
	STA. 376+13.40 TO STA. 376+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	36
CONTRACT NO. 76112				
ILLINOIS FED. AID PROJECT				

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

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 157 OVER TRIBUTARY TO SILVER CREEK**

USER NAME = mantrn	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

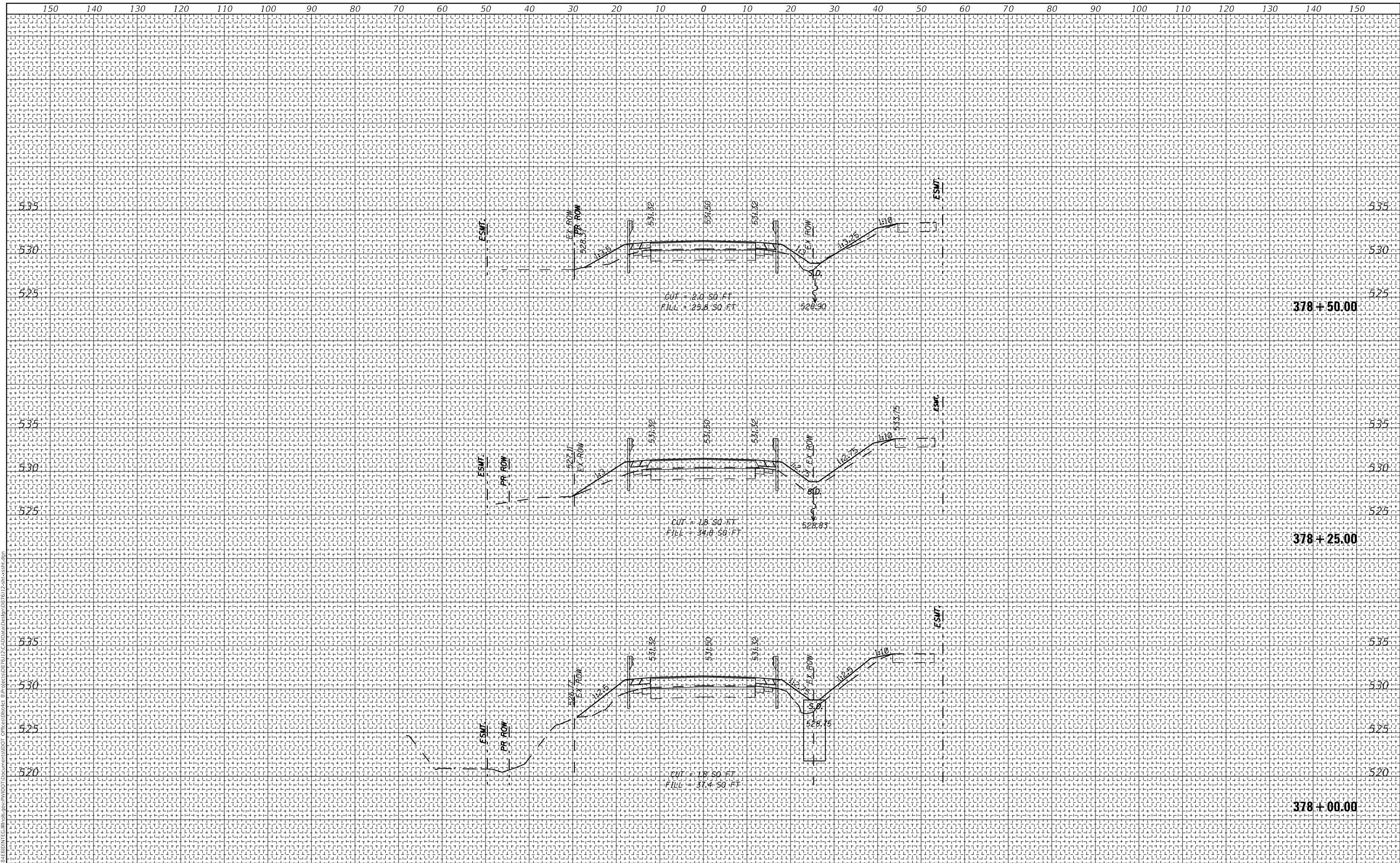
SCALE: SHEET 3 OF 7 SHEETS STA. 377+00.00 TO STA. 377+58.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	37
				CONTRACT NO. 76112
				ILLINOIS FED. AID PROJECT

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

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

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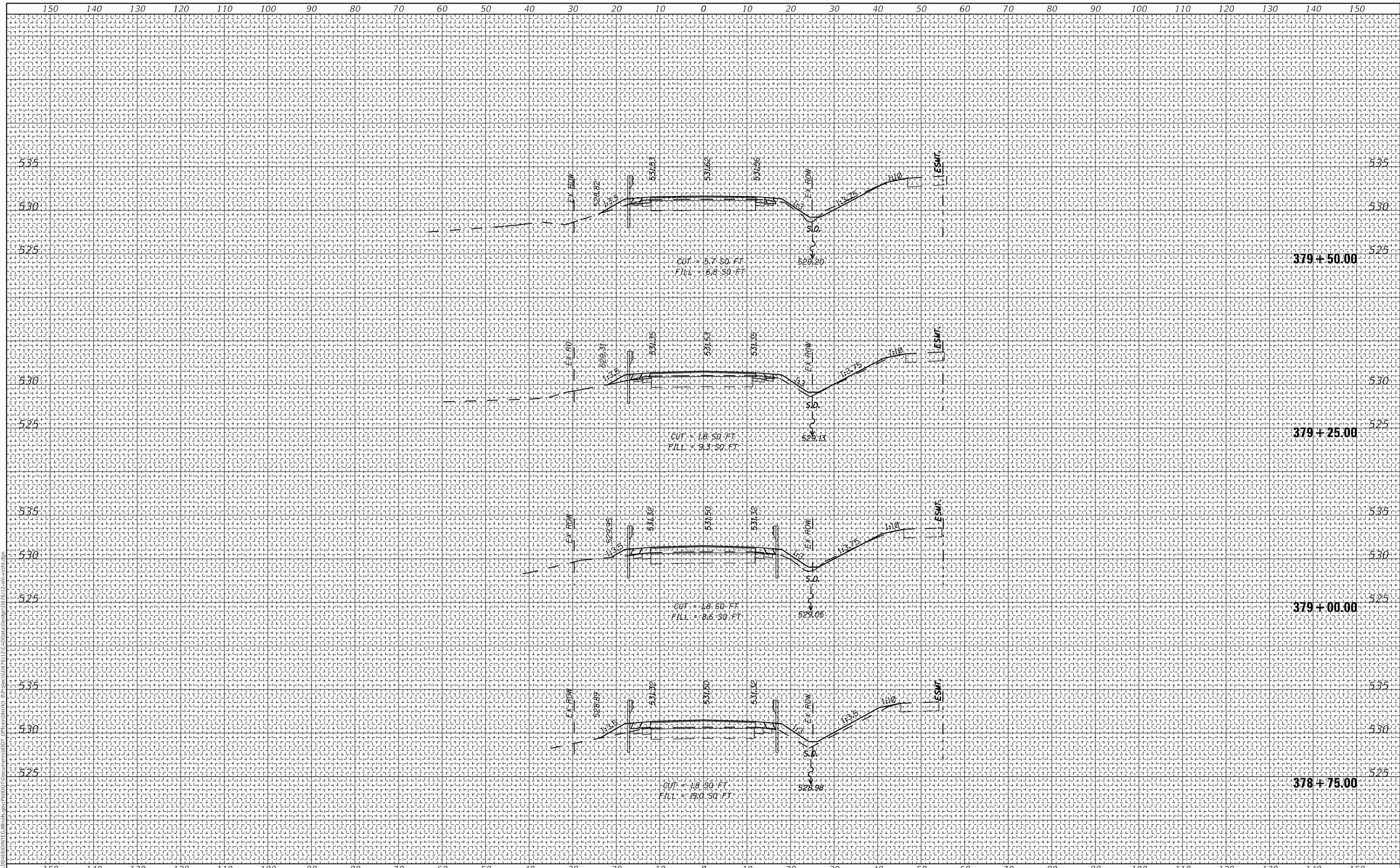


USER NAME = mnmn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 157 OVER TRIBUTARY TO SILVER CREEK			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20,000' / in.	DRAWN -	REVISED -		770	66-BR	MADISON	41	38	CONTRACT NO. 76112		
PLOT DATE = 10/19/2018	CHECKED -	REVISED -		SCALE:	SHEET 4	OF 7 SHEETS	STA. 378+00.00	TO STA. 378+50.00	ILLINOIS FED. AID PROJECT		
	DATE -	REVISED -									

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

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

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USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
IL 157 OVER TRIBUTARY TO SILVER CREEK

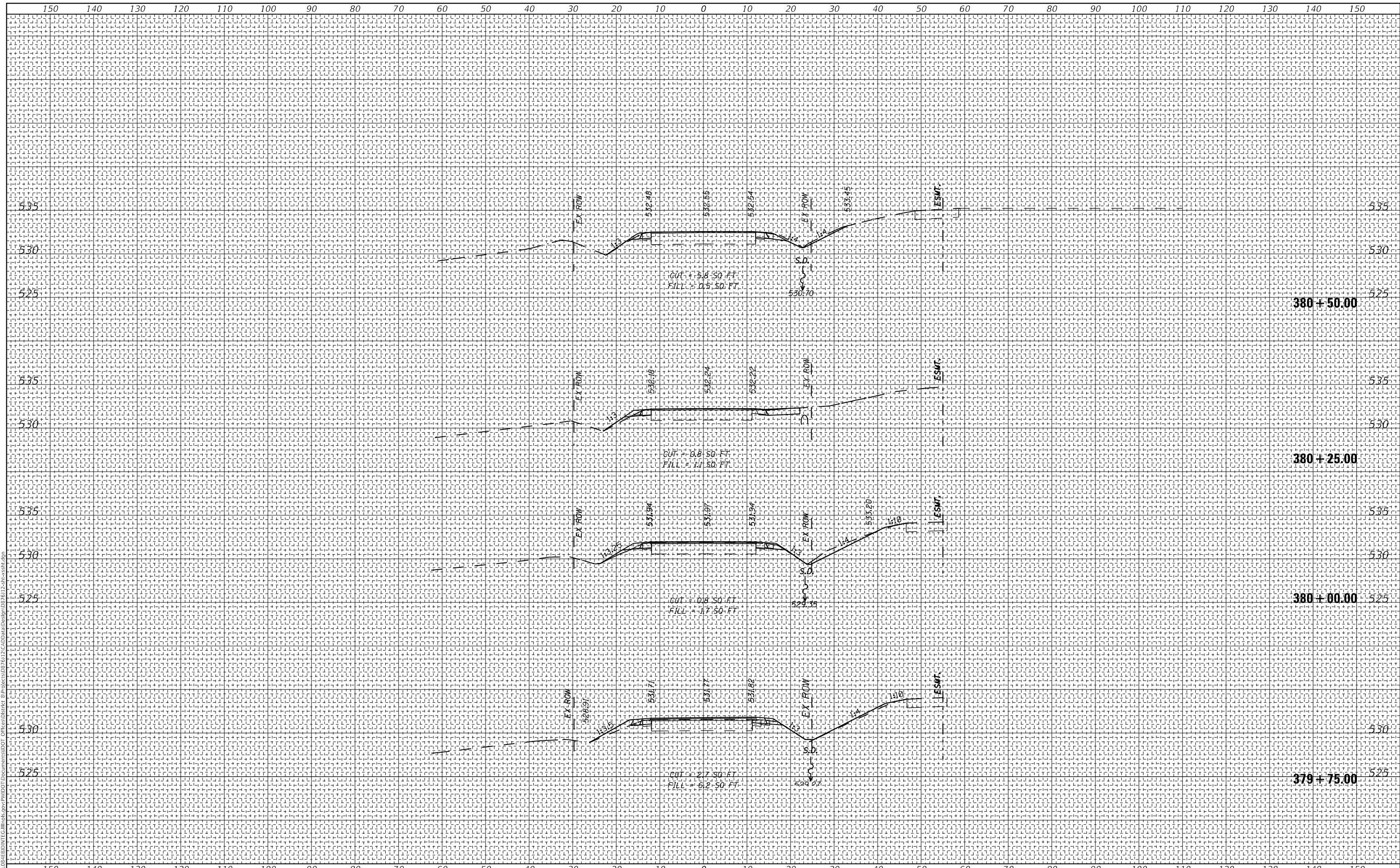
SCALE: SHEET 5 OF 7 SHEETS STA. 378+75.00 TO STA. 379+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	39
CONTRACT NO. 76112				
ILLINOIS FED. AID PROJECT				

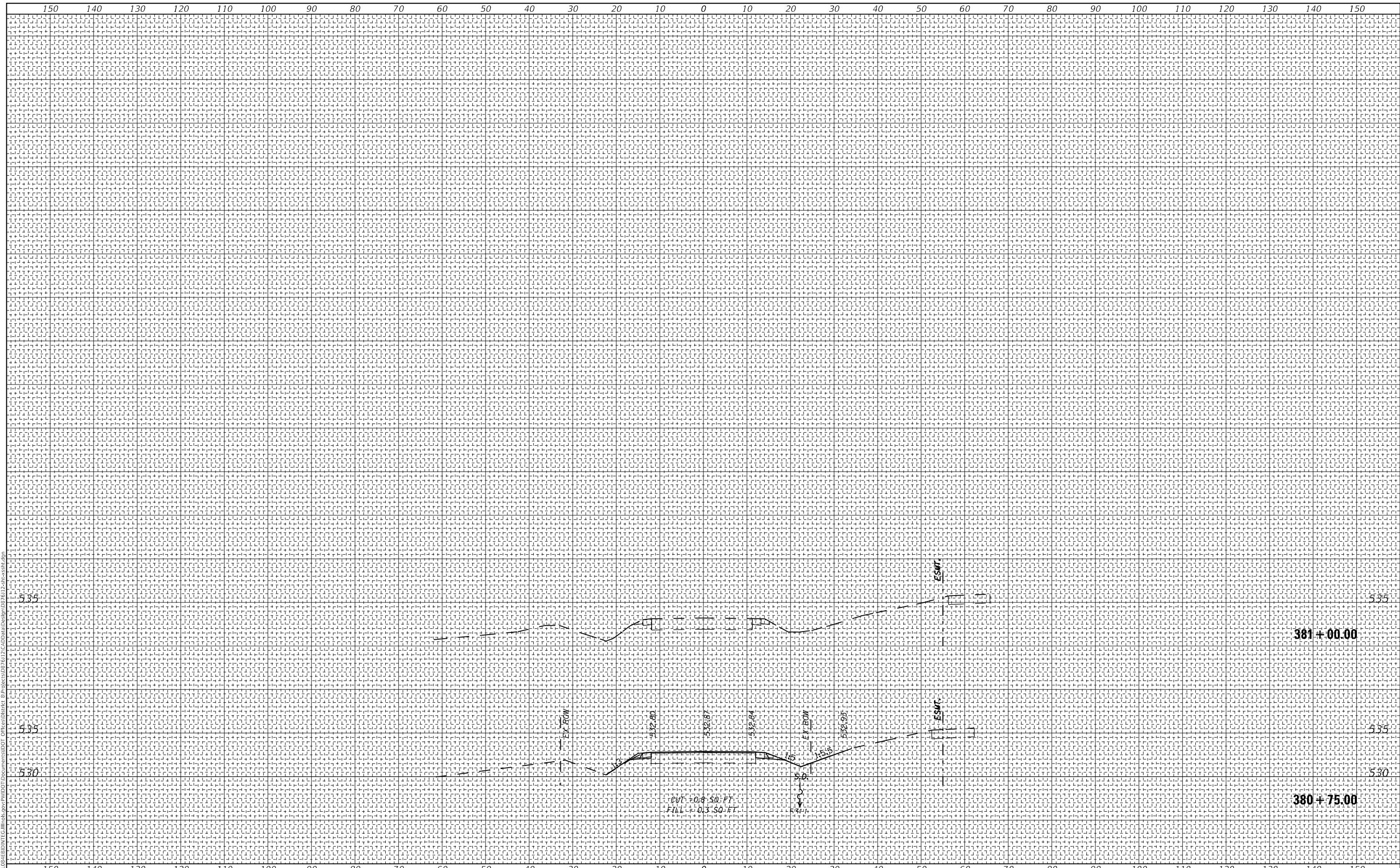
FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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

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USER NAME = manntn	DESIGNED -	REVISED -	STATE OF ILLINOIS		CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL 157 OVER TRIBUTARY TO SILVER CREEK		770	66-BR	MADISON	41	40
PLOT DATE = 10/19/2018	CHECKED -	REVISED -			SCALE: SHEET 6 OF 7 SHEETS STA. 379+75.00 TO STA. 380+50.00				CONTRACT NO. 76112		
	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		



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

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

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PLOT SCALE = 20.0000 "/td> <td>DRAWN -</td> <td>REVISED -</td>	DRAWN -	REVISED -
PLOT DATE = 10/19/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
IL 157 OVER TRIBUTARY TO SILVER CREEK

SCALE: SHEET 7 OF 7 SHEETS STA. 380+75.00 TO STA. 381+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	66-BR	MADISON	41	41
CONTRACT NO. 76J12				
ILLINOIS FED. AID PROJECT				