

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	1
		ILLINOIS	CONTRACT NO. 76G56	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAP 789 ROUTE IL 143
SECTION 125B-2
PROJECT NHPP-3HS2(621)
BRIDGE REPLACEMENT - IL 143 OVER INDIAN
CREEK 0.3 MI E OF WANDA RD SN 060-0349
MADISON COUNTY

C-98-131-18



FUNCTIONAL CLASSIFICATION

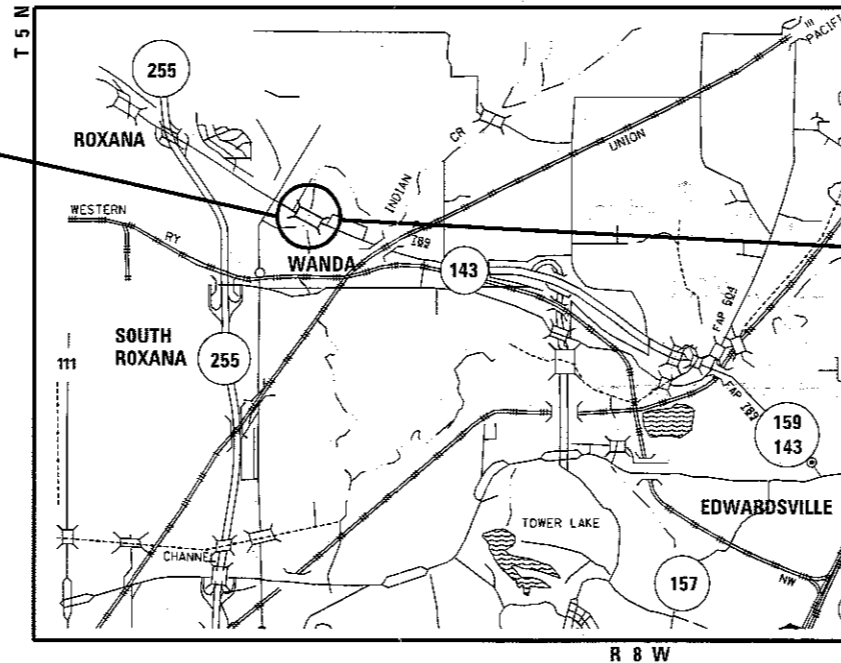
OTHER PRINCIPAL ARTERIAL

ADT

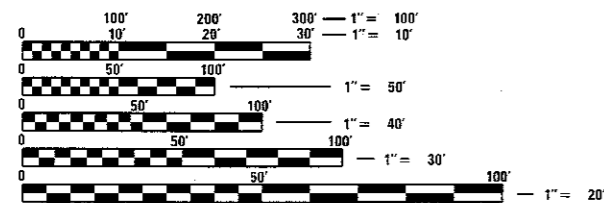
2015 ADT = 10,000 (ACT)
2017 ADT = 10,200 (EST)
2037 ADT = 11,700 (EST)
SU = 2.5%, MU = 7.5%

PROJECT LOCATION

STA 230+75 TO STA 245+80
PROPOSED SN 060-0349
EXISTING SN 060-0082
LAT: 32.8421
LONG: 90.035



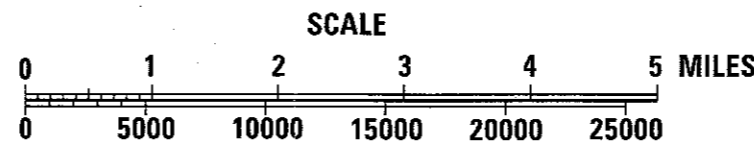
PROPOSED SN 060-0349
CL STA. 237+61
STA 236+36 TO STA 238+86



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

DESIGN DESIGNATION:
1000(17) OTHER PRINCIPAL ARTERIAL 3.48 (HMA-20)



GROSS LENGTH = 1,505 FT. = 0.285 MILE
NET LENGTH = 1,505 FT. = 0.285 MILE

PROJECT ENGINEER TIM PADGETT (618) 346-3325
PROJECT MANAGER LIZ BURNSIDE (618) 346-3180

CONTRACT NO. 76G56

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Oct 6 2017*
Jeffrey Z. Kamars
REGIONAL ENGINEER

Nov 30 2017
Maureen M. Addis
ENGINEER OF DESIGN AND ENVIRONMENT

Nov 30 2017
Amel
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

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GENERAL NOTES

- ① THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- ② EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE.
- ③ ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO 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:

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS (ELECTRIC&GAS)	X	X
*AT&T ILLINOIS	X	X
*BUCKEYE PARTNERS L.P. - WOOD RIVER PIPELINE		X
*CHARTER COMMUNICATIONS, INC.	X	X
*EXPLORER PIPELINE COMPANY		X
*NORTHEAST CENTRAL COUNTY PUBLIC WATER DIST		X
*SOUTHWESTERN ELECTRIC COOPERATIVE, INC.	X	X
*CITY OF WOOD RIVER (WATER & SANITARY)		X

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

- ④ A QUANTITY OF THREE (3) CHANGEABLE MESSAGE SIGNS WERE ADDED TO THE PROJECT TO USE AS DIRECTED BY THE RESIDENT ENGINEER FOR THE DURATION OF THE PROJECT.
- ⑤ THE ILLINOIS DEPARTMENT OF TRANSPORTATION 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. 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.
- ⑥ THE ROADWAY GEOTECHNICAL REPORT REQUIRES A THREE MONTH (90 CAL DAYS) DELAY IN SUBBASE/PAVING OPERATIONS, ALONG WITH THE INSTALLATION OF A SETTLEMENT PLATFORM DUE TO THE ANTICIPATED SETTLEMENT AT STATION 238+86.
- ⑧ ACCESS TO THE SERVICE ROAD JUST WEST OF THE BRIDGE SHALL BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION PLAN TO ENSURE THE ACCESS IS MAINTAINED FOR THE ENGINEER'S APPROVAL PRIOR TO START OF WORK. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR "AGGREGATE FOR TEMPORARY ACCESS". 200 TONS HAVE BEEN ADDED TO THE PLANS FOR THIS WORK.
- ⑨ ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
- ⑩ NO POLYVINYL CHLORIDE, POLYETHYLENE, OR POLYPROPYLENE PIPE SHALL BE USED AS PIPE CULVERTS, CLASS D OF ANY TYPE OR SIZE.

- ⑪ THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

ROUTE	FAP 789 (IL 143)
SECTION	125B-2
COUNTY	Madison
CONTRACT	76G56

DESCRIPTION:	Bridge replacement and grade raise along IL 143 over Indian Creek 0.3 MI E of Wanda Road SN 060-0349
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ADT (Construction) Yr	10000
MUJ:	7
SUJ:	2.9
20 YR. ESAL'S:	4.08

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	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0	IL 9.5
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "D"
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA

MIXTURE USE	SERVICE RD SURFACE	SERVICE RD LEVEL BINDER	
AC/PG	PG 64-22	PG 64-22	
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	
MIX COMPOSITION (Gradation)	IL 9.5	IL 9.5FG	
FRICTION AGG	MIXTURE "D"	MIXTURE "C"	
QUALITY MGMT PROGRAM	QC/QA	QC/QA	

MIXTURE USE	SHOULDERS > 2.25'	SHOULDERS < 2.25'	
AC/PG	PG 64-22	PG 64-22	
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	
DESIGN AIR VOIDS	4.0% @ Ndes=30	4.0% @ Ndes=30	
MIX COMPOSITION (Gradation)	IL 19.0L	IL 9.5L	
FRICTION AGG			
QUALITY MGMT PROGRAM	QC/QA	QC/QA	

Plan quantities for Bituminous Concrete Surface Course items are calculated using a unit weight of 112 lb/sq yd (59.8 kg/sq m/25mm)

IDOT HIGHWAY STANDARDS

- 000001-06
- 001001-02
- 001006
- 280001-07
- 406201-01
- 420406
- 482001-02
- 515001-03
- 542401-03
- 606006-04
- 606101-05
- 630001-12
- 630301-08
- 631011-10
- 631031-15
- 666001-01
- 667001-01
- 667101-02
- 701006-05
- 701201-04
- 701701-10
- 701901-07
- 725001-01
- 729001-01
- 780001-05
- 781001-04
- 782006
- 805001-01
- 814001-03
- 814006-02
- 873001-02
- 878001-10
- 880001-01
- 886001-01
- 886006-01
- BLR21-9

GENERAL NOTES (CON'T)

- 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 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.

COMMITMENTS

IF AT ANY POINT IN PROJECT IMPLEMENTATION OR OPERATION A COMMITMENT WILL BE AFFECTED BY SUBSEQUENT PROJECT DECISIONS OR COMMITMENTS, THE AFFECTED PARTIES, WHICH INCLUDES ALL DEPARTMENT PERSONNEL, WILL BE NOTIFIED AND THEIR COMMENTS WILL BE CONSIDERED PRIOR TO MAKING A FINAL DECISION ON THE ACTION AFFECTING THE EARLIER COMMITMENT. THE PROCEDURES AND THE RESULTS OF THE COORDINATION WITH AFFECTED PARTIES AND THE ULTIMATE DECISION ON THE PROPOSED CHANGE(S) TO THE COMMITMENT SHALL BE DOCUMENTED IN THE COMMITMENT FILE.

COMMITMENTS FOR THIS PROJECT ARE AS FOLLOWS:

- 1 RESIDENT ENGINEER SHALL CONTACT ALL APPLICABLE MADISON COUNTY LOCAL AGENCIES PRIOR TO THE CLOSURE OF THE ROAD. THE SUGGESTED LOCAL AGENCIES ARE (BUT NOT LIMITED TO): MADISON COUNTY TRAFFIC MANAGEMENT CENTER, CITY OF EDWARDSVILLE (INCLUDING FIRE AND POLICE), VILLAGE OF ROXANA (INCLUDING FIRE AND POLICE), CITY OF WOOD RIVER (INCLUDING FIRE AND POLICE), AND THE DISTRICT 8 TRAFFIC MANAGEMENT CENTER.
- 2 A SENSITIVE ARCHAEOLOGICAL SITE IS WITHIN THE PROJECT LIMITS AND HAS BEEN AVOIDED WITH THIS PROPOSED DESIGN. NO CONSTRUCTION ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS ARE TO TAKE PLACE UNLESS PREVIOUSLY COORDINATED WITH THE DISTRICT ENVIRONMENTAL STUDIES MANAGER FOR THE REVIEW OF POTENTIAL IMPACTS. MORE INFORMATION REGARDING THE AREAS TO AVOID WILL BE DISCUSSED AT THE PRE-CONSTRUCTION MEETING.
- 3 ENDANGERED SPECIES - NO TREE CLEARING FROM APRIL 1 THROUGH SEPTEMBER 30 OF ANY YEAR. IN ADDITION, TREES SHOULD BE REPLACED WITHIN THE PROJECT IF POSSIBLE.
- 4 THE FIELD ENTRANCE AT STA. 240+62, REVISE WIDTH TO 30FT., MOVE SLIGHTLY TO THE EAST AWAY FROM THE END OF THE GUARDRAIL PER OPERATIONS REQUEST.

FILE NAME =	USER NAME = Burns\deem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 8\Projects\0876\DRAWING\DATA\EA\Sheets\0876G56-sht-gennot	DRAWN	CHECKED -	REVISED -			789	125B-2	WASHINGTON	101	3
Default	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED -			CONTRACT NO. 76G56				
	PLOT DATE = 10/20/2017	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES				CONSTR. CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				BRIDGE 0010 URBAN	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50	50	
20100500	TREE REMOVAL, ACRES	ACRE	1.5	1.5	
20200100	EARTH EXCAVATION	CU YD	2672	2672	
20300100	CHANNEL EXCAVATION	CU YD	2088	2088	
20400800	FURNISHED EXCAVATION	CU YD	16807	16807	
25000210	SEEDING, CLASS 2A	ACRE	4	4	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	360	360	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	360	360	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	360	360	
25100115	MULCH, METHOD 2	ACRE	4	4	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	4603	4603	
28000305	TEMPORARY DITCH CHECKS	FOOT	250	250	
28000400	PERIMETER EROSION BARRIER	FOOT	1959	1959	
28000500	INLET AND PIPE PROTECTION	EACH	3	3	

SUMMARY OF QUANTITIES				CONSTR. CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				BRIDGE 0010 URBAN	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	14733	14733	
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	3833	3833	
28100105	STONE RIPRAP, CLASS A3	SQ YD	25	25	
28100107	STONE RIPRAP, CLASS A4	SQ YD	1734	1734	
28200200	FILTER FABRIC	SQ YD	1734	1734	
31101810	SUBBASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	5896	5896	
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	118	118	
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	929	929	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	56	56	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	132	132	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	200	200	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11563	11563	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2943	2943	
40600637	LEVELING BINDER (MACHINE METHOD), 1L-9.5FG, N70	TON	78	78	

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PLOT DATE = 10/20/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 4
CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FEDERAL 20% STATE	
				BRIDGE 0010	URBAN
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	78	78	
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	4051	4051	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	18	18	
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	89	89	
44000100	PAVEMENT REMOVAL	SQ YD	2801	2801	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	73	73	
44000400	GUTTER REMOVAL	FOOT	84	84	
44004250	PAVED SHOULDER REMOVAL	SQ YD	711	711	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	122	122	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1687	1687	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	208	208	
50200100	STRUCTURE EXCAVATION	CU YD	334	334	
50200300	COFFERDAM EXCAVATION	CU YD	96	96	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FEDERAL 20% STATE	
				BRIDGE 0010	URBAN
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1	1	
50300100	FLOOR DRAINS	EACH	30	30	
50300225	CONCRETE STRUCTURES	CU YD	232.4	232.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	371.6	371.6	
50300260	BRIDGE DECK GROOVING	SQ YD	1304	1304	
50300300	PROTECTIVE COAT	SQ YD	1610	1610	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	119.1	119.1	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1	
50500505	STUD SHEAR CONNECTORS	EACH	6384	6384	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	160180	160180	
51201900	FURNISHING STEEL PILES HP14X89	FOOT	635	635	
51202100	FURNISHING STEEL PILES HP14X117	FOOT	992	992	
51202305	DRIVING PILES	FOOT	1627	1627	
51203900	TEST PILE STEEL HP14X89	EACH	2	2	

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PLOT DATE = 10/20/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 5
CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT	

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SUMMARY OF QUANTITIES				CONSTR. CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				BRIDGE	0010 URBAN
51204100	TEST PILE STEEL HP14X117	EACH	2	2	
51204650	PILE SHOES	EACH	30	30	
51500100	NAME PLATES	EACH	1	1	
52100520	ANCHOR BOLTS, 1"	EACH	48	48	
542D1060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	102	102	
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	92	92	
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	85	85	
54213450	END SECTIONS 15"	EACH	2	2	
54213453	END SECTIONS 18"	EACH	2	2	
54213459	END SECTIONS 24"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	88	88	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2	2	
60602500	CONCRETE GUTTER, TYPE A	FOOT	81	81	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	625	625	

SUMMARY OF QUANTITIES				CONSTR. CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				BRIDGE	0010 URBAN
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	391	391	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	17	17	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
70102637	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1	1	
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	2417	2417	
70107008	PAVEMENT MARKING BLACKOUT TAPE, 8"	FOOT	655	655	
70107024	PAVEMENT MARKING BLACKOUT TAPE, 24"	FOOT	91	91	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1524	1524	

* SPECIALTY ITEM

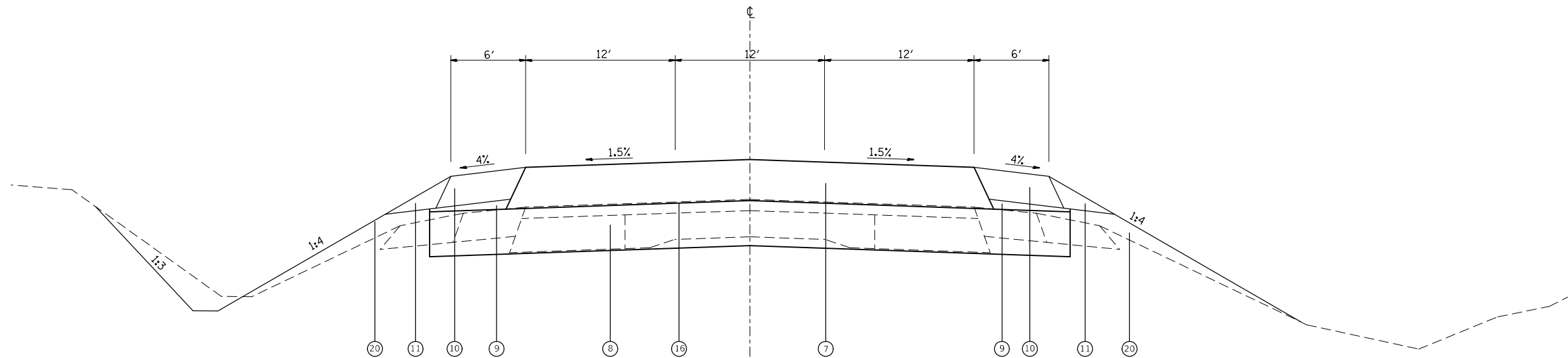
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 6
CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT	

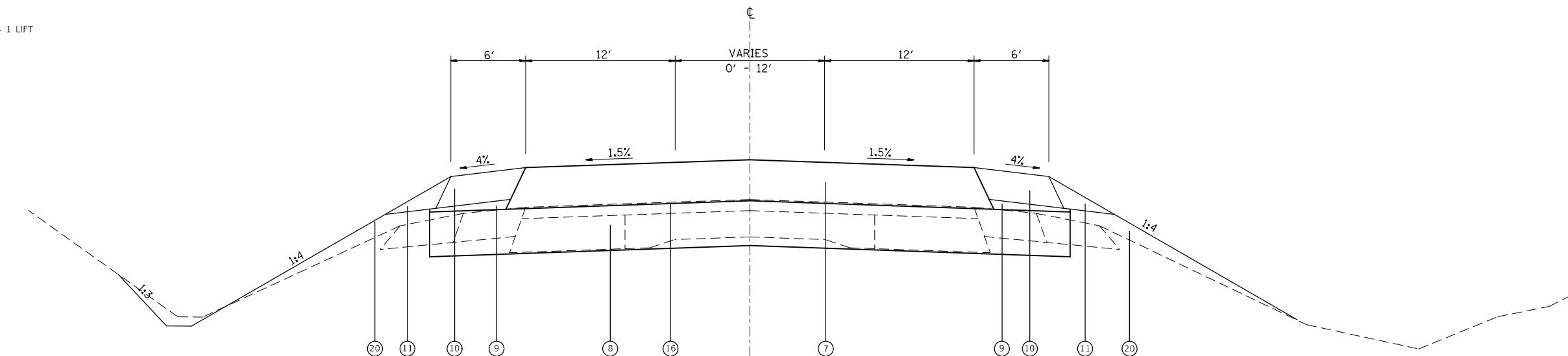


PROPOSED ROADWAY SECTION

STA. 230+75 TO STA. 232+35
 STA. 243+06 TO STA. 244+72.2

LEGEND

- 1 EXISTING PCC PAVEMENT (9'-7"-9')
- 2 EXISTING RESURFACING 3"
- 3 EXISTING BITUMINOUS BASE COURSE WIDENING, 9"
- 4 EXISTING BITUMINOUS SHOULDER, 6"
- 5 EXISTING AGGREGATE SHOULDER
- 6 EXISTING CONCRETE GUTTER
- 7 PROPOSED HMA PAVEMENT (FULL-DEPTH)
 HMA SURFACE COURSE, 2"
 HMA BINDER COURSE, 9"
 BITUMINOUS MATERIALS (TACK COAT) - 3 LIFTS
- 8 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 12"
- 9 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C
- 10 PROPOSED HMA SHOULDER, 8"
- 11 PROPOSED AGGREGATE SHOULDER WEDGE, TYPE B
- 12 PROPOSED CONCRETE GUTTER, TYPE A
- 13 PROPOSED HMA SURFACE COURSE, 1-1/2"
- 14 PROPOSED HMA LEVEL BINDER COURSE, 1-1/2"
- 15 PROPOSED AGGREGATE BASE COURSE, TYPE A, 8"
- 16 PROPOSED BITUMINOUS MATERIALS (PRIME COAT) - 1 LIFT
- 17 PROPOSED PAVEMENT REMOVAL
- 18 PROPOSED PAVEMENT BREAKING
- 19 PROPOSED PAVED SHOULDER REMOVAL
- 20 PROPOSED FURNISHED EXCAVATION



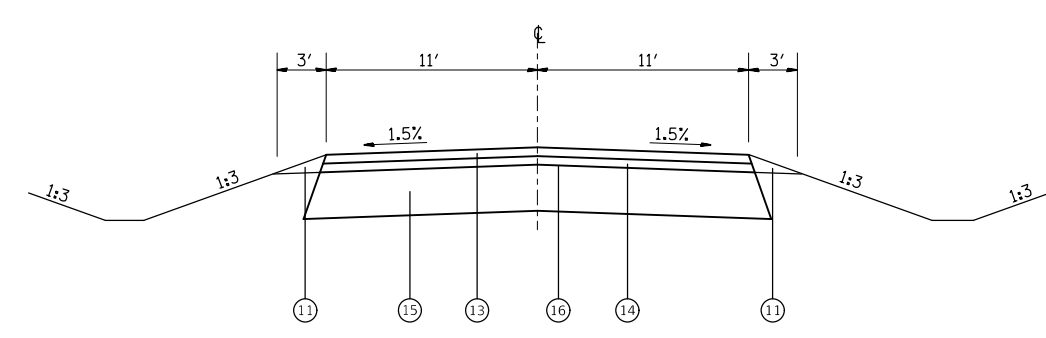
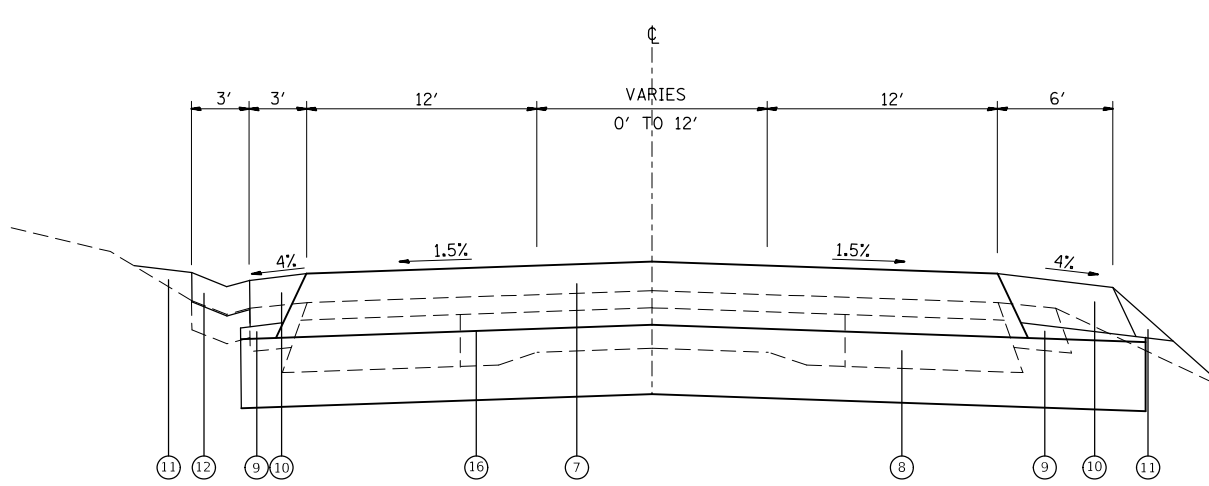
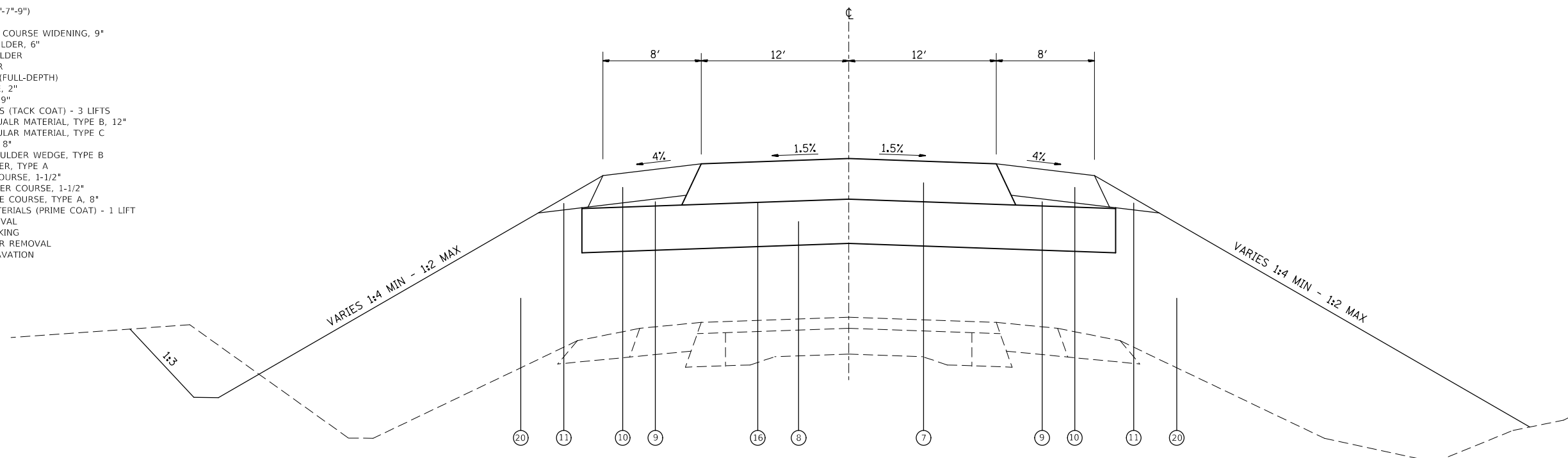
PROPOSED ROADWAY SECTION

RIGHT STA. 232+35 TO STA. 234+35
 STA. 240+36 TO STA. 243+06
 LEFT STA. 232+35 TO STA. 234+73.7
 STA. 240+73.5 TO STA. 243+06

FILE NAME =	USER NAME = Burns,deem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS - PROPOSED			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\11084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 8\Projects\0876\Drawings\EA\Sheets\0876G56-shr-typsec1.dwg	DESIGNED -	REVISED -	789					125B-2	MADISON	101	10	
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -		CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 10/20/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	

LEGEND

- 1 EXISTING PCC PAVEMENT (9"-7"-9")
- 2 EXISTING RESURFACING 3"
- 3 EXISTING BITUMINOUS BASE COURSE WIDENING, 9"
- 4 EXISTING BITUMINOUS SHOULDER, 6"
- 5 EXISTING AGGREGATE SHOULDER
- 6 EXISTING CONCRETE GUTTER
- 7 PROPOSED HMA PAVEMENT (FULL-DEPTH)
HMA SURFACE COURSE, 2"
HMA BINDER COURSE, 9"
BITUMINOUS MATERIALS (TACK COAT) - 3 LIFTS
- 8 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 12"
- 9 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C
- 10 PROPOSED HMA SHOULDER, 8"
- 11 PROPOSED AGGREGATE SHOULDER WEDGE, TYPE B
- 12 PROPOSED CONCRETE GUTTER, TYPE A
- 13 PROPOSED HMA SURFACE COURSE, 1-1/2"
- 14 PROPOSED HMA LEVEL BINDER COURSE, 1-1/2"
- 15 PROPOSED AGGREGATE BASE COURSE, TYPE A, 8"
- 16 PROPOSED BITUMINOUS MATERIALS (PRIME COAT) - 1 LIFT
- 17 PROPOSED PAVEMENT REMOVAL
- 18 PROPOSED PAVEMENT BREAKING
- 19 PROPOSED PAVED SHOULDER REMOVAL
- 20 PROPOSED FURNISHED EXCAVATION



FILE NAME =	USER NAME = Burnsdeem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS - PROPOSED				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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Default	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED -						CONTRACT NO. 76G56						
	PLOT DATE = 10/20/2017								ILLINOIS FED. AID PROJECT						

EROSION AND SEDIMENT CONTROL									
LOCATION				TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	TEMPORARY EROSION CONTROL BLANKET	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
STA	TO	STA	RT/LT	(POUNDS)	(FOOT)	(FOOT)	(EACH)	(SQ YD)	(SQ YD)
IL 143									
230+75	TO	237+61	RT	585.1		645		1508.6	851.4
230+75	TO	237+61	LT	1164.7	150	240	1	4697.4	
237+61	TO	245+80	RT	1403.7		898	1	2680.0	2981.8
237+61	TO	245+80	LT	1449.7	100	176	1	5847.2	
TOTAL :				4603	250	1959	3	14733	3833

CHANNEL EXCAVATION			
LOCATION			CHANNEL EXCAVATION
STA	TO	STA	(CU YD)
IL 143			
NORTH OF BRIDGE - WEST			318
NORTH OF BRIDGE - EAST			951
SOUTH OF BRIDGE - WEST			3.7
SOUTH OF BRIDGE - EAST			814.8
TOTAL :			2088

SEEDING SCHEDULE								
LOCATION				SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENTS	PHOSPHORUS FERTILIZER NUTRIENTS	POTASSIUM FERTILIZER NUTRIENTS	MULCH METHOD 2
STA	TO	STA	RT/LT	(ACRE)	(LB)	(LB)	(LB)	(ACRE)
IL 143								
230+75	TO	236+06	RT	0.5	45.0	45.0	45.0	0.5
230+75	TO	236+06	LT	1.1	99.0	99.0	99.0	1.1
239+16	TO	245+80	RT	1.3	117.0	117.0	117.0	1.3
239+16	TO	245+80	LT	1.1	99.0	99.0	99.0	1.1
TOTAL :				4.0	360	360	360	4.0

PAVEMENT REMOVAL			
LOCATION			PAVEMENT REMOVAL
STA	TO	STA	(SQ YD)
IL 143			
230+75	TO	233+00	888.3
236+36	TO	236+68	85.3
238+82	TO	239+16	90.7
243+60	TO	245+80	880.0
SERVICE ROAD			
10+12	TO	13+62.67	857.2
TOTAL :			2801

EARTH EXCAVATION AND FURNISHED EXCAVATION						
LOCATION			EARTH EXCAVATION	EARTH EX ADJUSTMENT FOR SHRINKAGE (25%)	EMBANKMENT	FURNISHED EXCAVATION
STA	TO	STA	(CU YD)	(CU YD)	(CU YD)	(CU YD)
IL 143						
230+75	TO	236+50	728	546	4008	3462
238+75	TO	245+80	1600	1200	12377	11177
SERVICE ROAD						
10+25		14+00	344.4	258	2427	2169
TOTAL :			2672	2004	18812	16807

TREE REMOVAL					
LOCATION				TREE REMOVAL	TREE REMOVAL
STA			RT/LT	(ACRES)	(UNIT)
IL 143					
230+75	TO	237+61	RT	0.192	
230+75	TO	237+61	LT	0.072	50
237+61	TO	245+80	RT	1.015	
237+61	TO	245+80	LT	0.228	
TOTAL				1.5	50

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USER NAME = Burnsdeem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/9/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	12
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT							
LOCATION			SUB-BASE GRANULAR MATERIAL TYPE B, 12"	BITUMINOUS MATERIAL (PRIME COAT) - 1 LIFT	BITUMINOUS MATERIAL (TACK COAT) - 3 LIFT	HMA (FULL-DEPTH) - 11"	
						HMA BINDER - 9"	HMA SURFACE - 2"
STA	TO	STA	(SQ YD)	(POUND)	(POUND)	(SQ YD)	(SQ YD)
IL 143							
230+75	TO	235+96	1763	3967	1190		1763
239+26	TO	245+80	2288	5148	1544		2288
TOTAL :			4051	9115	2734		4051

SHOULDERS							
LOCATION				SUB-BASE GRANULAR MATERIAL TYPE B, 12"	SUB-BASE GRANULAR MATERIAL TYPE C	HMA SHOULDER, 8"	AGGREGATE WEDGE SHOULDER TYPE B
STA	TO	STA	RT/LT				
IL 143							
230+75	TO	234+35	RT	260.0	16.8	240.0	18.7
230+75	TO	234+73.7	LT	288.0	18.6	265.8	20.7
234+35	TO	235+96	RT	152.1	10.0	143.1	8.3
234+73.7	TO	235+96	LT	115.5	7.6	108.7	6.3
239+26	TO	240+36	RT	103.9	6.8	97.8	5.7
239+26	TO	240+73.5	LT	139.3	9.2	131.1	7.6
240+36	TO	245+80	RT	392.9	25.4	362.7	28.2
240+73.5	TO	245+80	LT	365.8	23.6	337.7	26.3
TOTAL :				1817	118	1687	122

PAVEMENT CONNECTOR			
LOCATION			PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
STA	TO	STA	(SQ YD)
IL 143			
235+96	TO	236+06	44.4
239+16	TO	239+26	44.4
TOTAL :			89

ENTRANCE SCHEDULE							
LOCATION			DRIVEWAY PAVEMENT REMOVAL (SQ YD)	BITUMINOUS MATERIAL (PRIME COAT) -1 LIFT (POUND)	AGGREGATE SURFACE COURSE TYPE B, 6" (TON)	AGGREGATE BASE COURSE TYPE B, 6" (TON)	INCIDENTAL HMA SURFACING - 2" (TON)
STA	NAME	RT/LT					
IL 143							
241+50	FE	LT			132.3		
244+75	PE	RT		175.0		27.2	8.7
245+19.5	PE	RT	72.6	182.5		28.4	9.1
TOTAL :			73	358	132	56	18

SHOULDER REMOVAL				
LOCATION				PAVED SHOULDER REMOVAL
STA	TO	STA	RT/LT	(SQ YD)
230+75	TO	233+00	RT	150.0
230+75	TO	233+00	LT	150.0
236+36	TO	236+68	RT	28.4
236+36	TO	236+68	LT	28.4
238+82	TO	239+16	RT	30.2
238+82	TO	239+16	LT	30.2
243+60	TO	245+80	RT	146.7
243+60	TO	245+80	LT	146.7
TOTAL :				711

SERVICE ROAD SCHEDULE							
LOCATION			BITUMINOUS MATERIAL (PRIME COAT) -1 LIFT (POUND)	BITUMINOUS MATERIAL (TACK COAT) -1 LIFT (POUND)	LEVEL BINDER COURSE, MIX "C", N70, IL 9.5FG, 1-1/2" (TON)	HMA SURFACE COURSE, MIX "D", N70, IL 9.5.1-1/2" (TON)	AGGREGATE BASE COURSE, TYPE A, 8" (SQ YD)
STA	TO	STA					
SERVICE ROAD							
10+13	TO	13+92.95	2089.7	209.0	78.0	78.0	928.8
TOTAL:			2090	209	78	78	929

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USER NAME = Burnsdeem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/9/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G56	

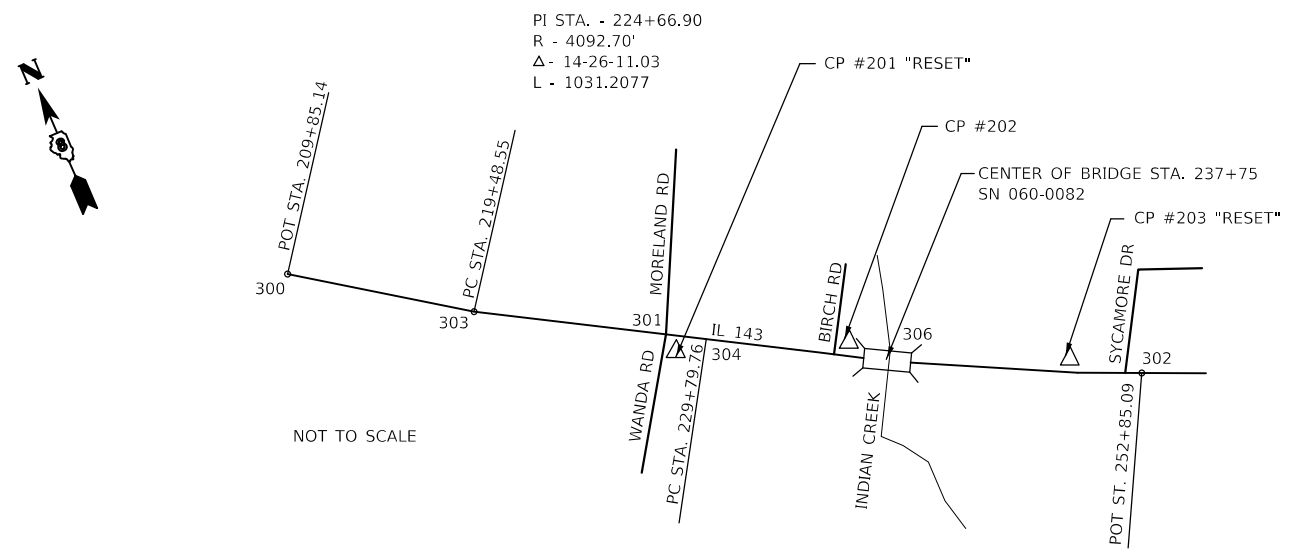
DRAINAGE													
LOCATION				PIPE CULVERT REMOVAL (FOOT)	GUTTER REMOVAL (FOOT)	PIPE CULVERTS CLASS D, TYPE 2, 15" (FOOT)	END SECTION 15" (EACH)	PIPE CULVERTS CLASS D, TYPE 2, 18" (FOOT)	END SECTION 18" (EACH)	PIPE CULVERTS CLASS D, TYPE 2, 24" (FOOT)	END SECTION 24" (EACH)	CONCRETE GUTTER TYPE A (FOOT)	CLASS SI CONCRETE OUTLET (CU YD)
STA	TO	STA	RT/LT										
233+47	TO	233+78	LT	31									
233+92	TO	234+83	LT					91.7	2				
235+48	TO	236+25	LT	77									
241+07.5	TO	241+92.5	LT							85	2		
244+48	TO	245+50	RT			102	2						
244+57	TO	245+57	RT	100									
244+72	TO	245+80	LT		84							81	2.38
TOTAL :				208	84	102	2	92	2	85	2	81	2

PAVEMENT MARKING SCHEDULE														
LOCATION			MODIFIED URETHANE PAINT MARKING			PAVEMENT MARKING TAPE, TYPE III				PAVEMENT MARKING BLACKOUT TAPE			PAVEMENT MARKING REMOVAL	
			LINE - 4" SOLID (WHITE) FOOT	LINE - 4" SOLID (YELLOW) FOOT	LETTERS & SYMBOLS (WHITE) SQ FT	LINE - 4" SOLID (WHITE) FOOT	LINE - 8" SOLID (WHITE) FOOT	LINE - 24" SOLID (WHITE) FOOT	LETTERS & SYMBOLS (WHITE) SQ FT	LINE - 4" SOLID (WHITE) FOOT	LINE - 8" SOLID (WHITE) FOOT	LINE - 24" SOLID (WHITE) FOOT	TEMPORARY PAVEMENT MARKING REMOVAL SQ FT	SHORT-TERM PAVEMENT MARKING REMOVAL SQ FT
STA	TO	STA												
IL 143														
230+75	TO	230+79	8.0	8.0										
230+79	TO	234+75	792.0	1584.0										
234+75	TO	236+06	262.0	262.0										
236+06	TO	238+86	560.0	560.0										
238+86	TO	240+37	302.0	302.0										
240+37	TO	243+07	540.0	1080.0										
243+07	TO	245+80	546.0	682.5	35.2									
DETOUR														
NEW POAG RD						1299.5	242.0	63.0	124.6	1725.0	242.0	57.0	944.0	845.0
NORTH UNIVERSITY DR						392.0	413.0	34.0	83.4	692.0	413.0	34.0	480.0	679.0
SUBTOTAL :			3010.0	4478.5	35.2	1691.5	655.0	97.0	208.0	2417.0	655.0	91.0	1424.0	1524.0
TOTAL :				7489	35	1692	655	97	208	2417	655	91	1424	1524

RIPRAP								
LOCATION						STONE RIPRAP CLASS A3 SQ YD	FILTER FABRIC SQ YD	STONE RIPRAP CLASS A4 SQ YD
STA	TO	STA	RT/LT	W	L			
234+74	TO	234+80.6	LT	8	6.6	5.9		
236+11	TO	239+11	AT BRIDGE	52	300		1734.0	1734.0
241+10.5	TO	241+20	LT	17.7	9.5	18.7		
TOTAL :						25	1734	1734

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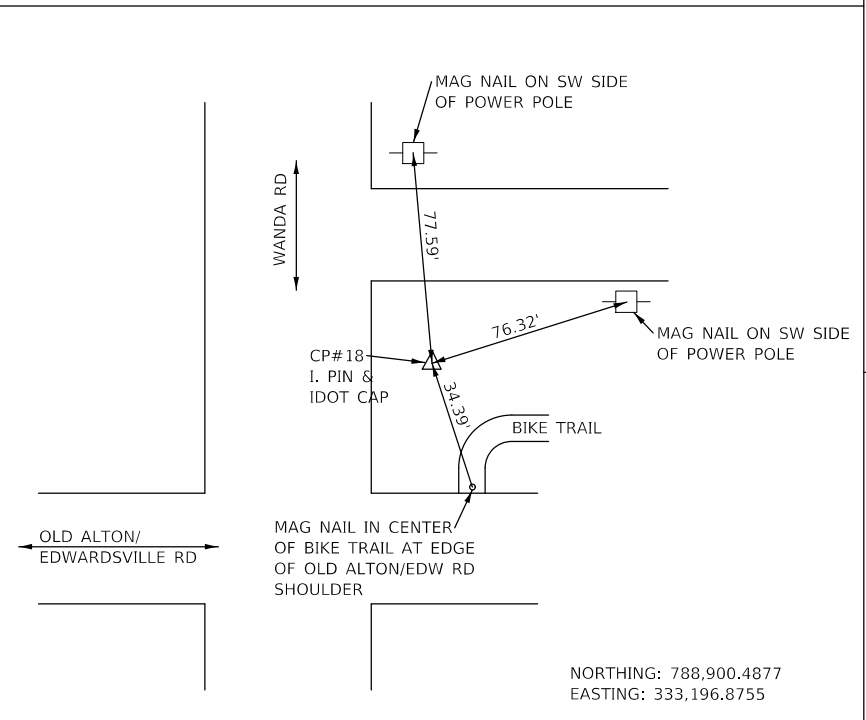
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	DRAWN -	REVISED -						789	125B-2	MADISON	101	14
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 76G56				
PLOT DATE = 11/9/2017	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				



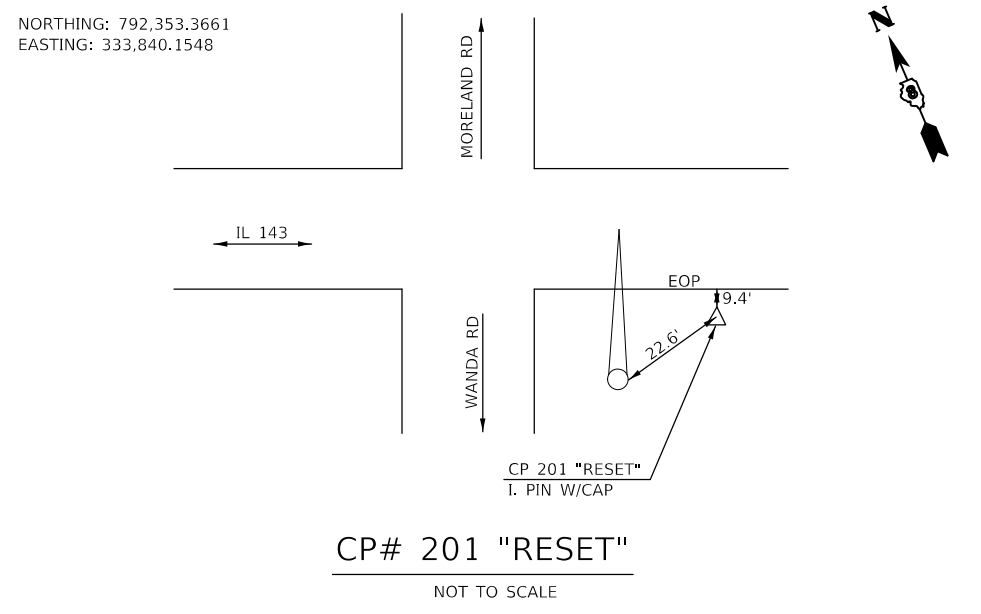
EXISTING IL 143 ALIGNMENT
SEE PLAT OF HIGHWAYS FOR ADDITIONAL INFORMATION

BENCHMARK DESCRIPTIONS

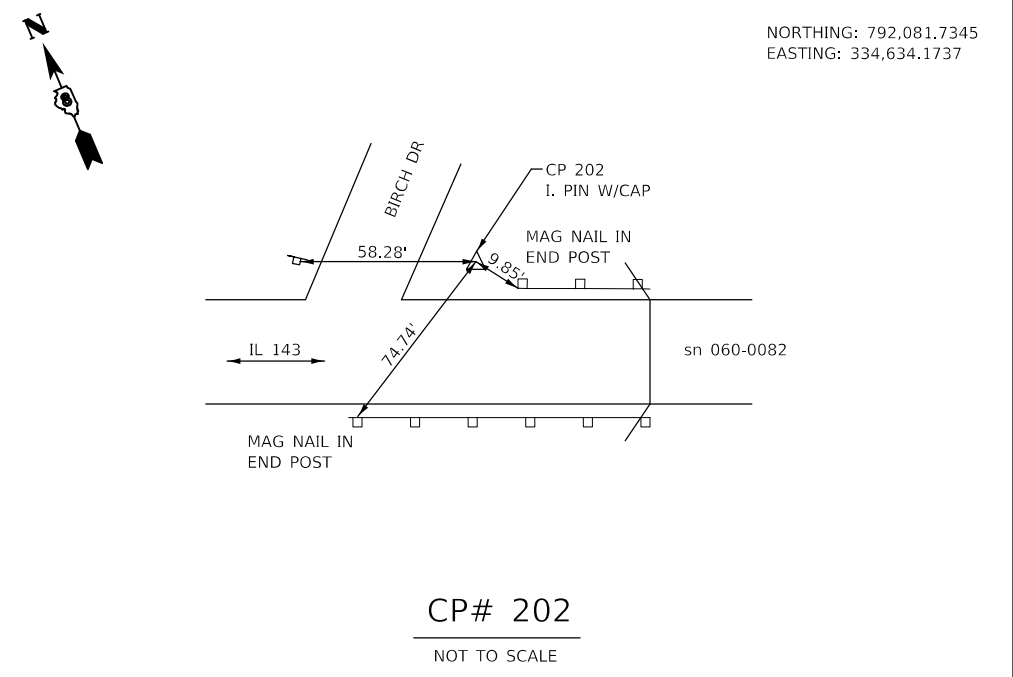
- BM1 STA. 255+57, 44' LEFT
NAIL SPIKE IN POWER POLE LOCATED @ THE NW CORNER OF THE INTERSECTION OF S. MORELAND RD AND IL 143.
ELEVATION: 457.60'
- BM2 STA. 241+05, 50' LEFT
NAIL SPIKE IN POWER POLE LOCATED +75' EAST OF THE END GUARDRAIL ON THE WEST BOUND LANE OF IL 143 AND INDIAN CREEK.
ELEVATION: 447.02'
- BM3 STA. 253+19, 50' LEFT
NAIL SPIKE IN POWER POLE LOCATED IN FIRST POWER POLE EAST OF THE EDGE OF SYCAMORE DRIVE ALONG IL 143.
ELEVATION: 480.17'



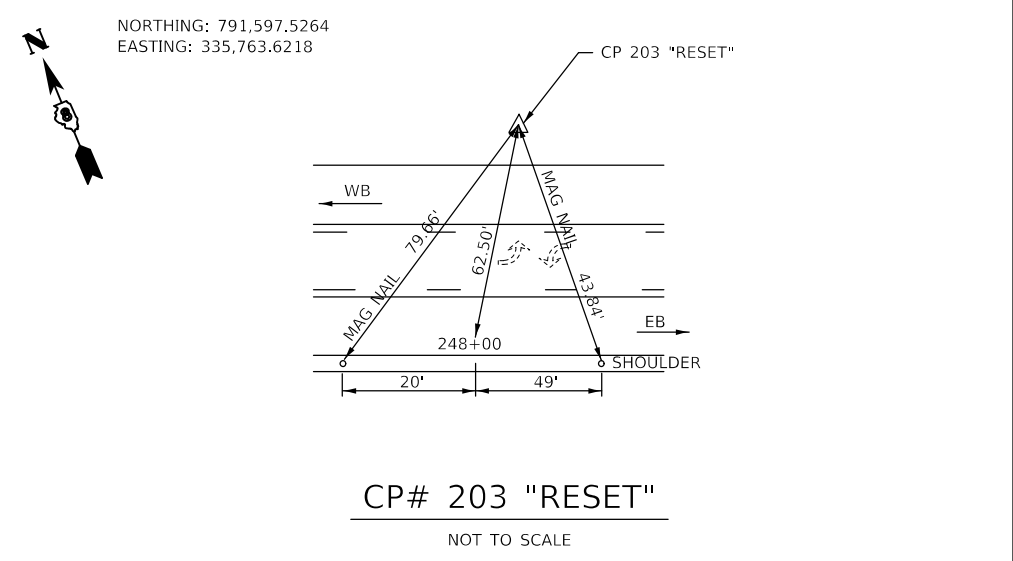
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NOT TO SCALE



CP# 201 "RESET"
NOT TO SCALE



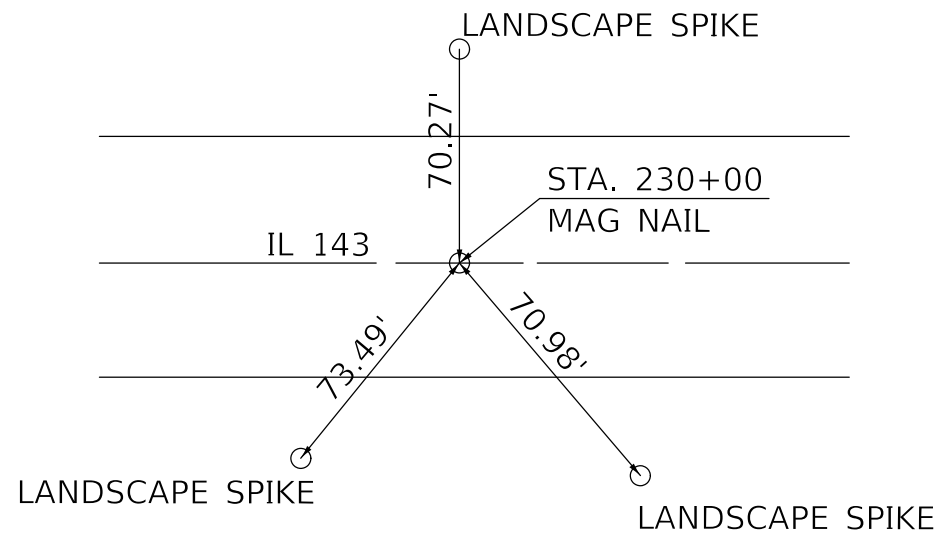
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CP# 203 "RESET"
NOT TO SCALE

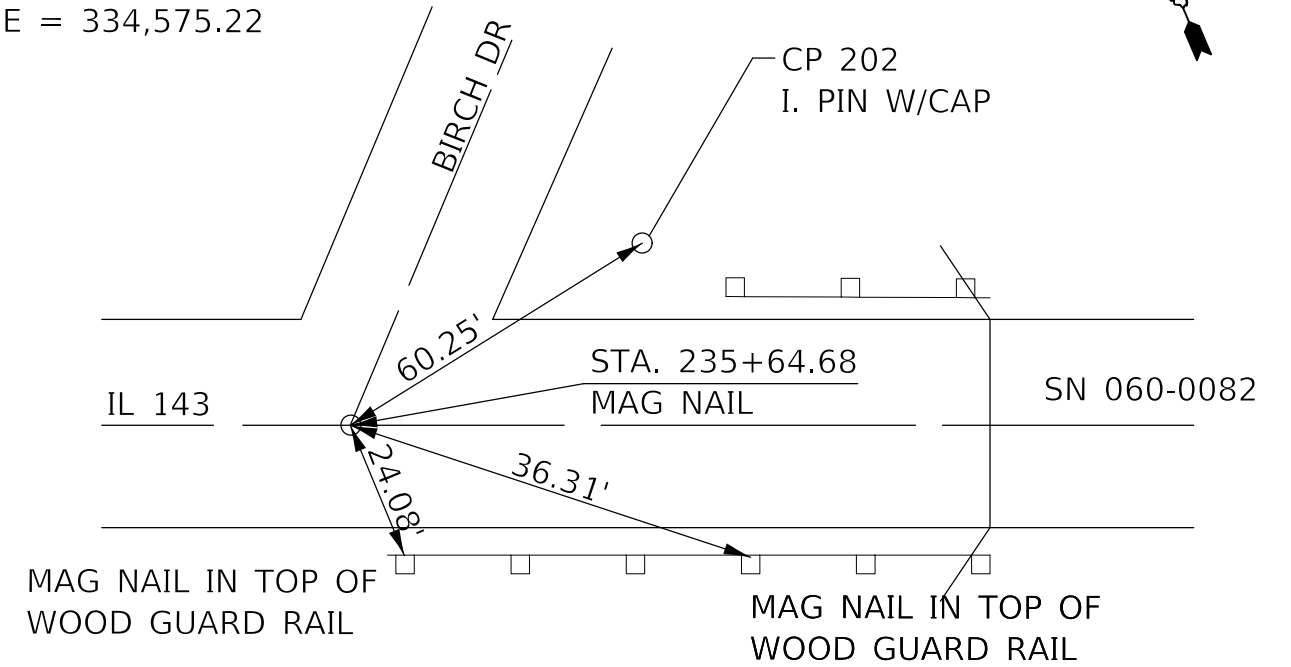
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISIONS	DATE		CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT				
Default	DATE = 10/20/2017	REVISIONS	DATE		SCALE:	SHEET OF SHEETS	STA. TO STA.					

STA. 230+00
 N = 792,287.72
 E = 334,054.51



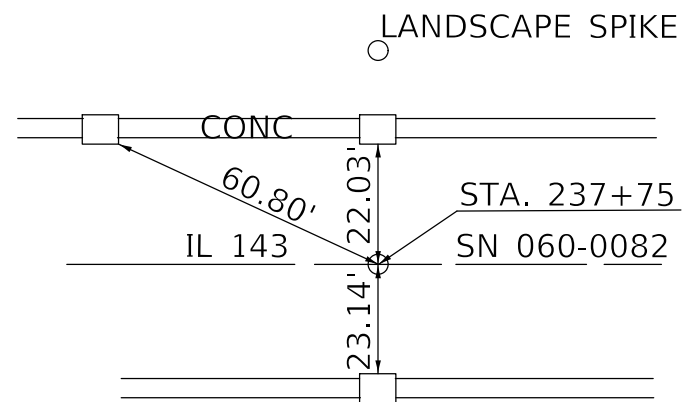
NOTE:
 DISTANCES ARE TRUE HORIZONTAL

STA. 235+64.68
 N = 792,069.28
 E = 334,575.22



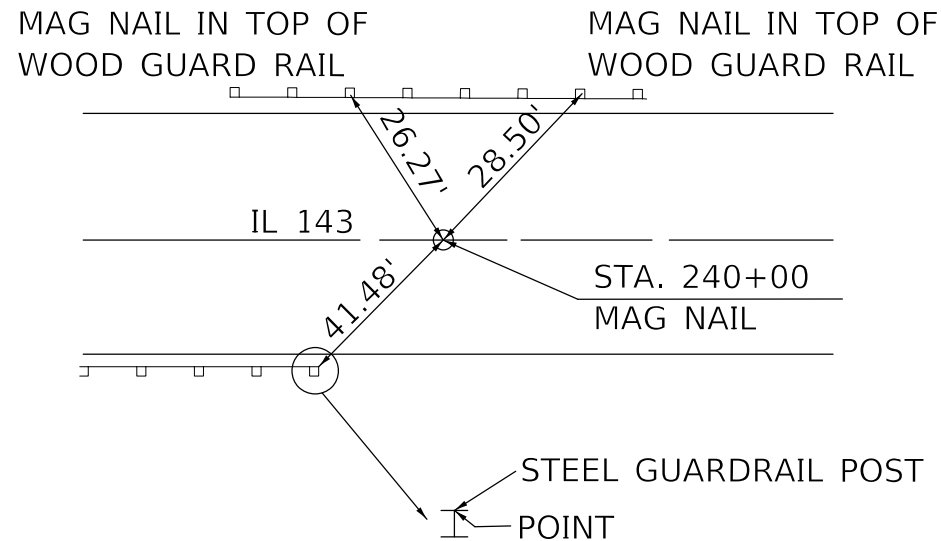
NOTE:
 DISTANCES ARE TRUE HORIZONTAL

STA. 237+75
 N = 791,987.92
 E = 334,769.17



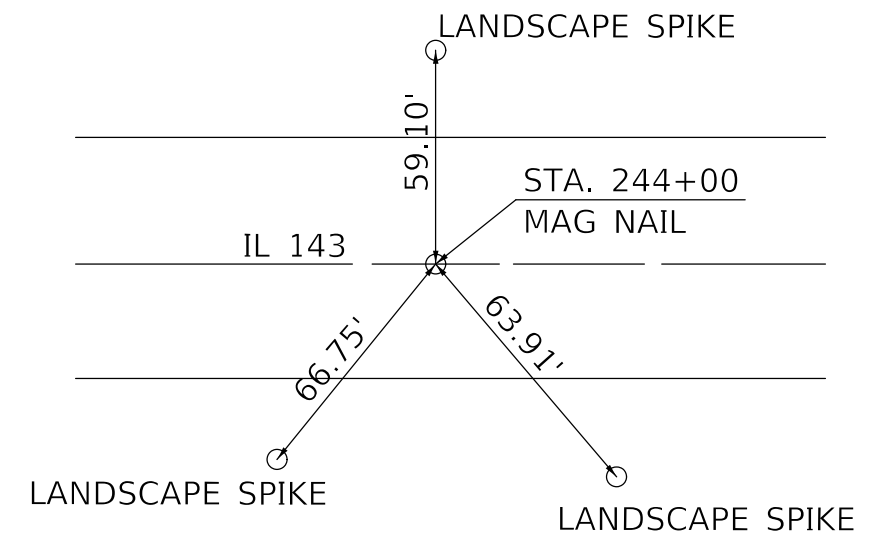
NOTE:
 DISTANCES ARE TRUE HORIZONTAL

STA. 240+00
 N = 791,900.88
 E = 334,976.65



NOTE:
 DISTANCES ARE TRUE HORIZONTAL

STA. 244+00
 N = 791,346.14
 E = 335,345.51

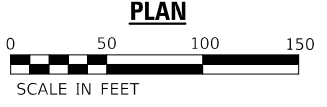
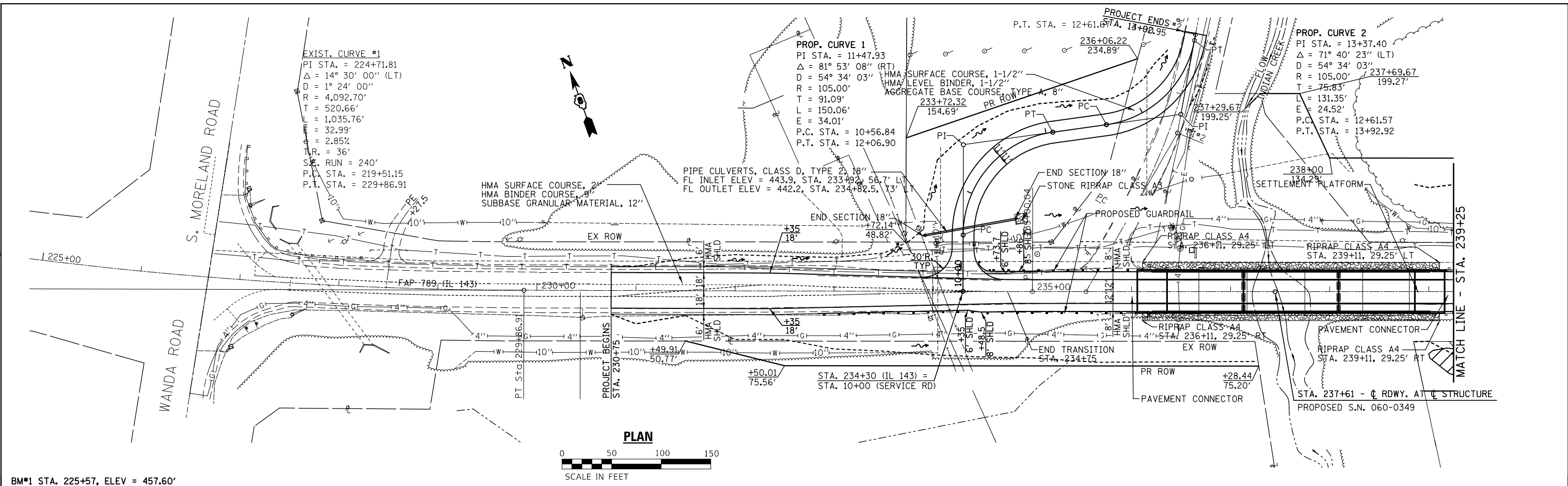


NOTE:
 DISTANCES ARE TRUE HORIZONTAL

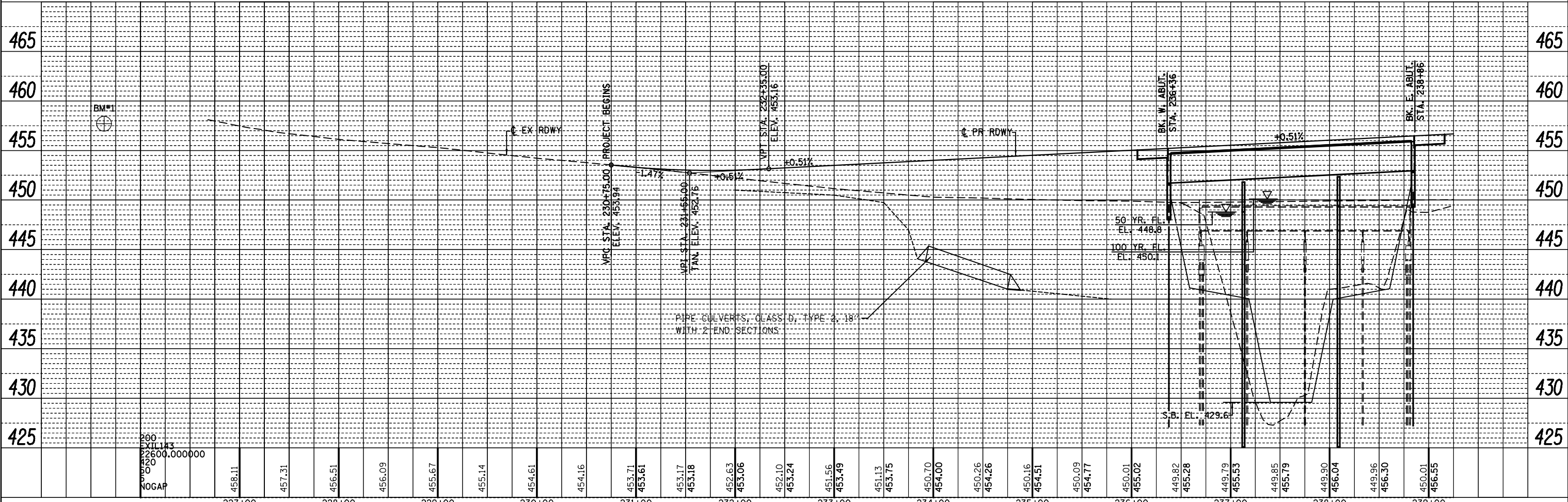
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Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 76G56				
	PLOT DATE = 10/20/2017							ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	FILED	
	NO.	



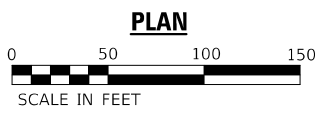
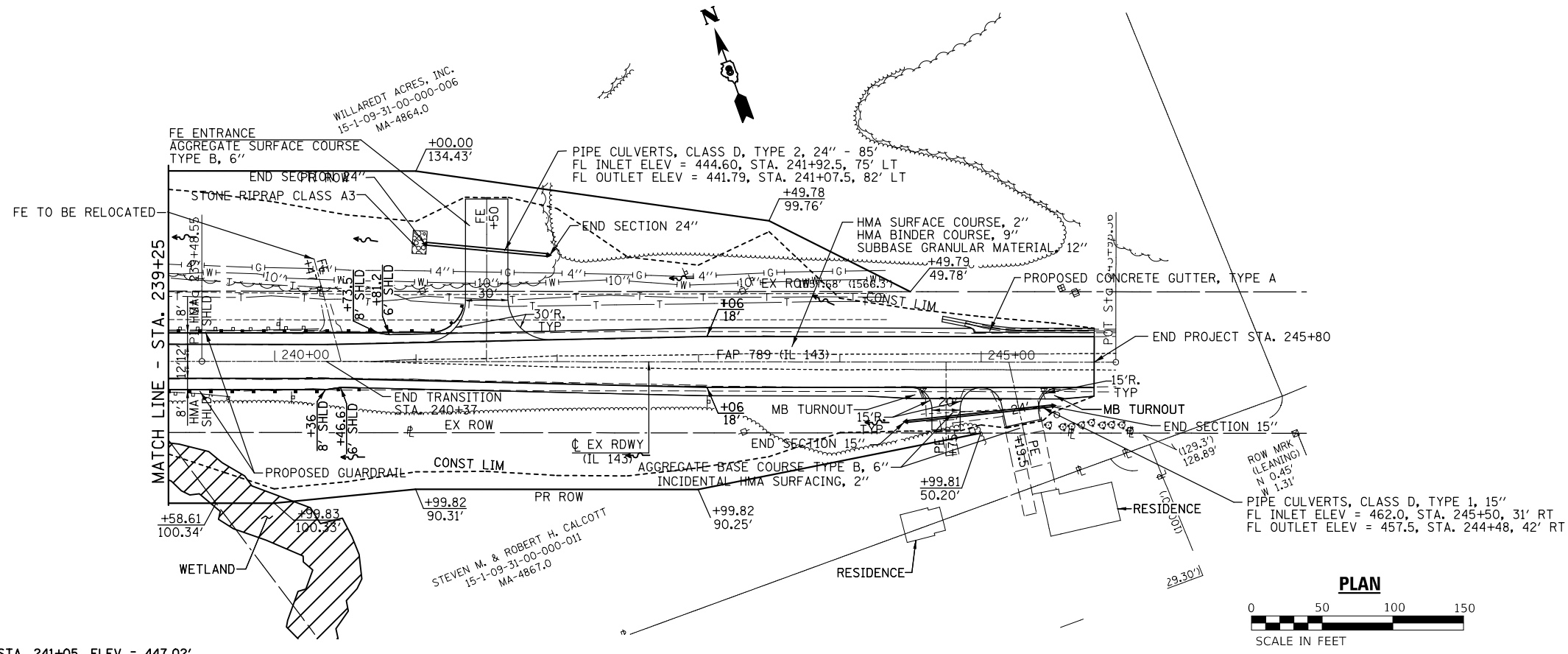
BM#1 STA. 225+57, ELEV = 457.60'



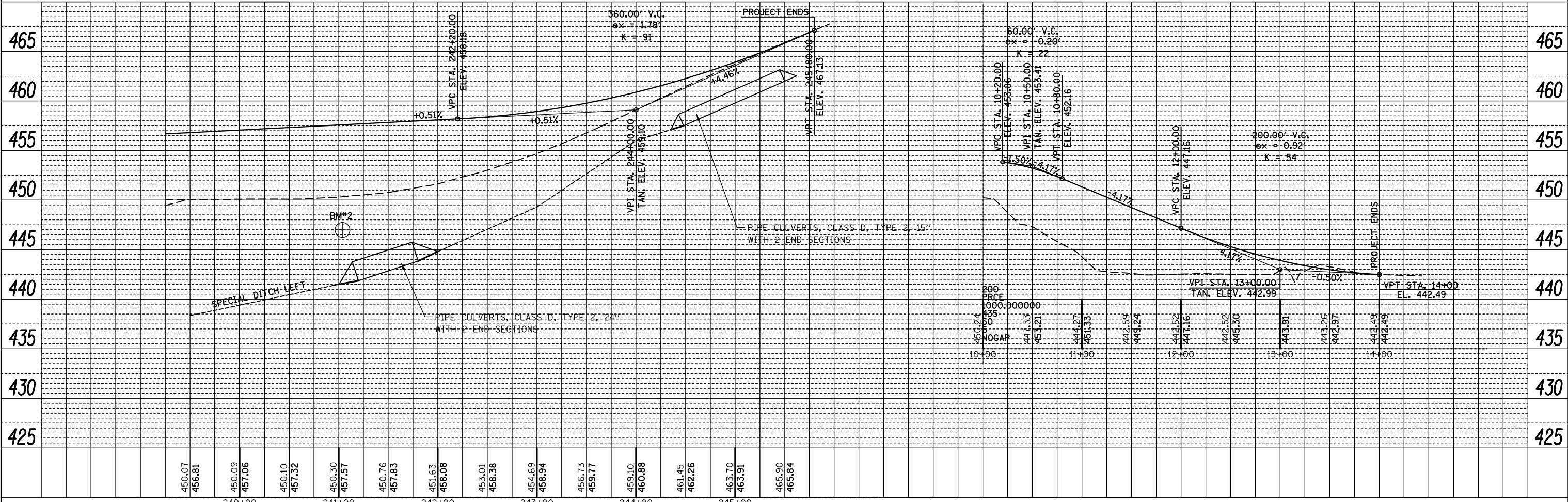
USER NAME = Burnsdeem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. 230+75 TO STA. 239+25	F.A.P. R.T. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 18
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 76G56				
PLOT DATE = 10/20/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	



BM#2 STA. 241+05, ELEV = 447.02'



USER NAME = Burnsdeem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
PLOT DATE = 11/9/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

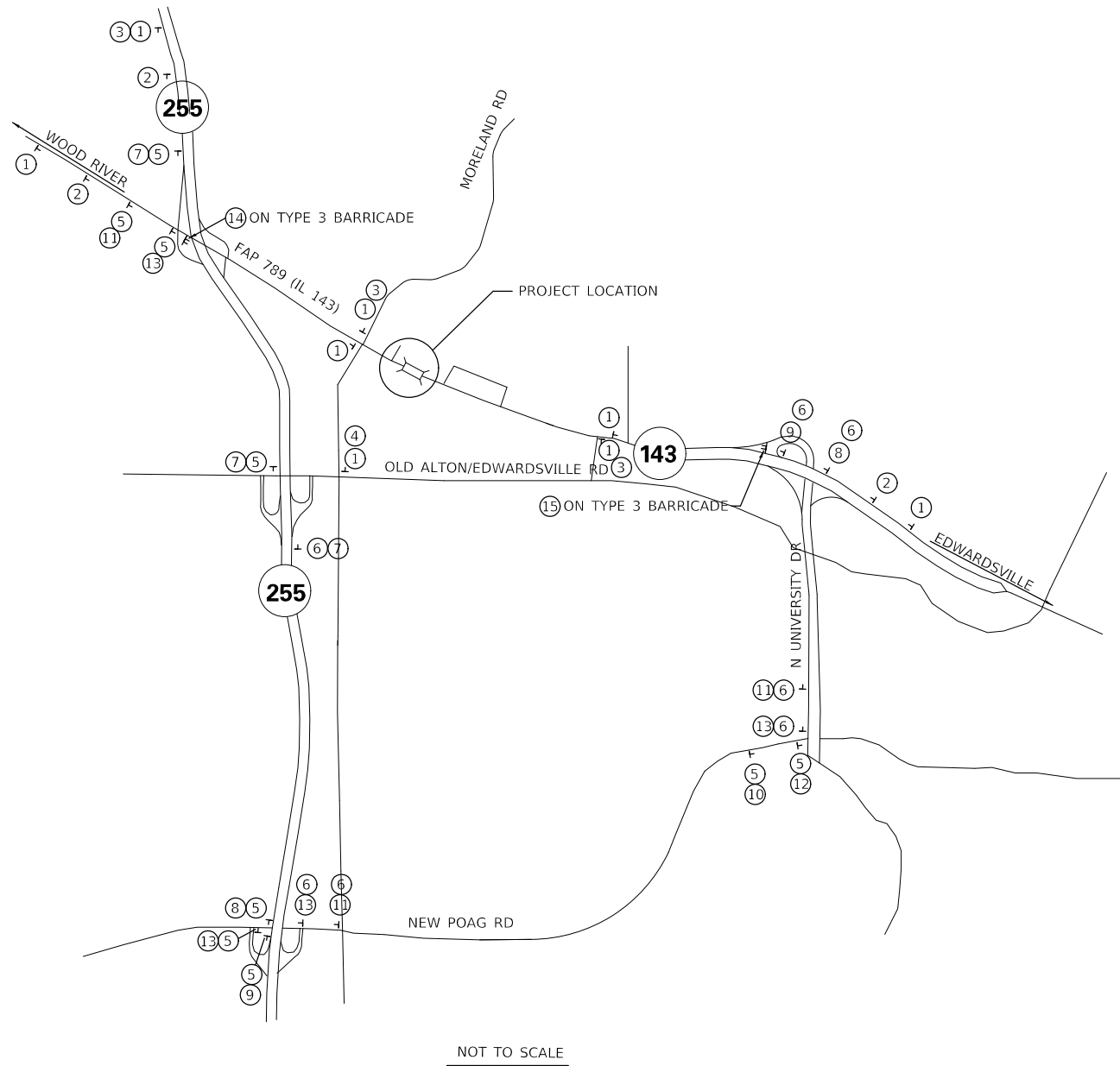
PLAN & PROFILE

SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. 239+25 TO STA. 245+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	19
ILLINOIS FED. AID PROJECT				CONTRACT NO. 76G56



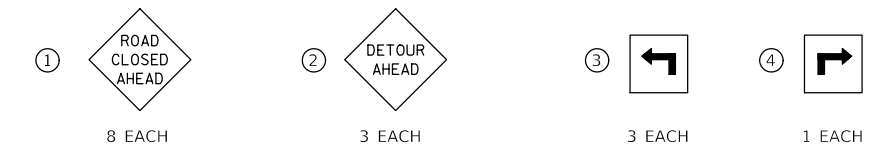
DETOUR MAP



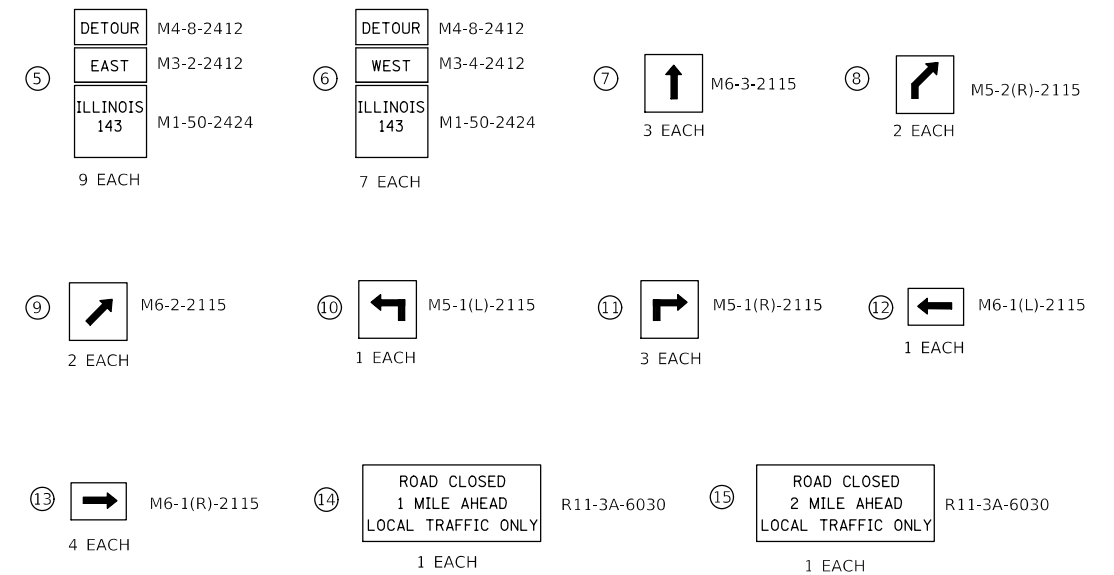
NOTES

1. DETOUR SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE RESIDENT ENGINEER. 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 (618) 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 WARNING SIGNS, ROAD CLOSURE SIGNS, MESSAGE BOARD AND TYPE 3 BARRICADES.
8. ALL ADVANCE SIGNS SHALL BE 48" FLUORESCENT ORANGE WITH FLASHING LIGHTS.

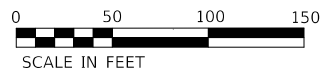
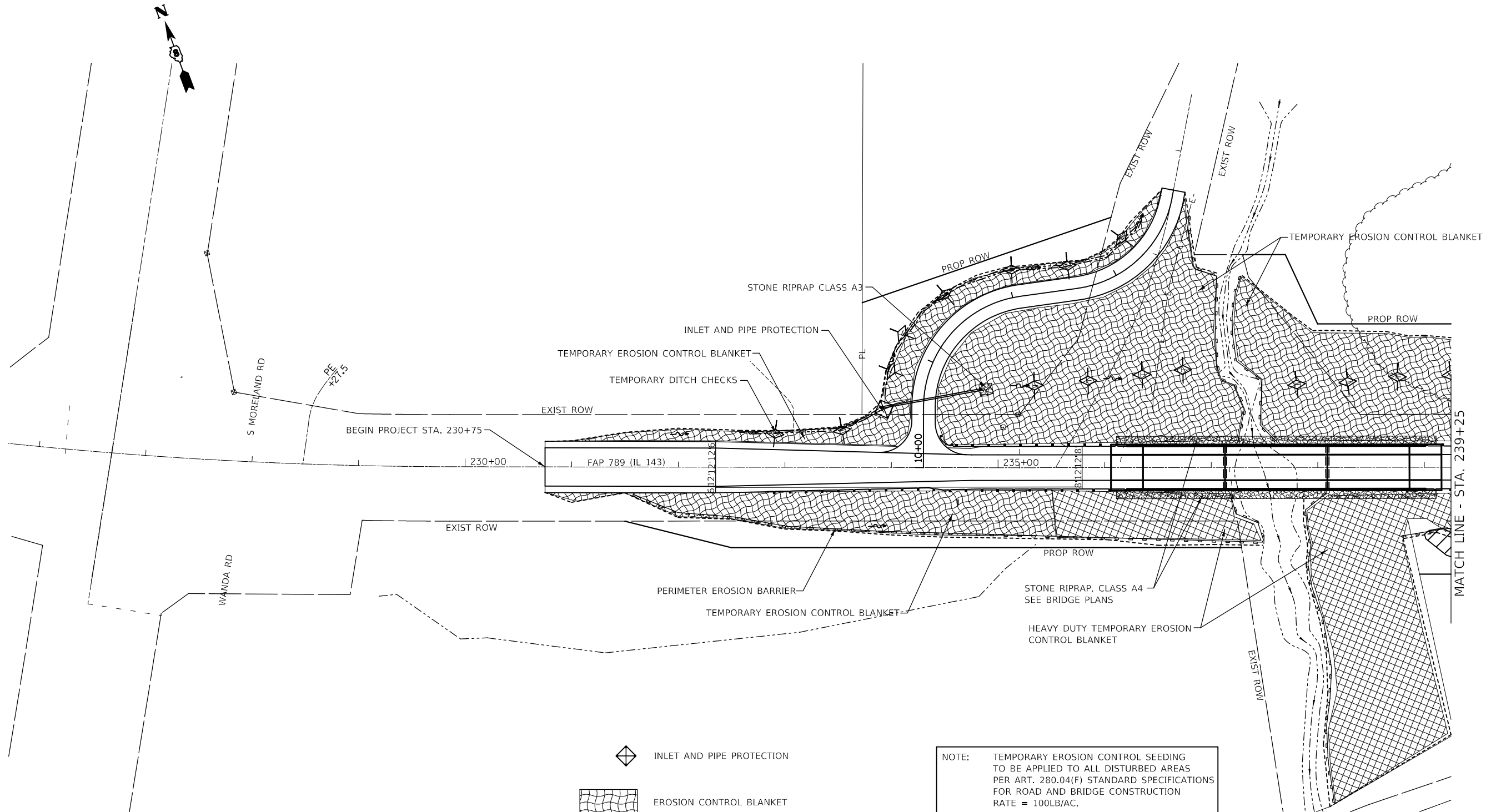
SIGNS TO BE FURNISHED BY THE CONTRACTOR







DETOUR SIGNS TO BE FURNISHED BY ILLINOIS DEPARTMENT OF TRANSPORTATION





FILE NAME =	USER NAME = Burnsideem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pwz\1084EBID\INTEG.illinois.gov\PWIDOT\Documents\	SIDOT Offices\District 8\Projects\D876G56\CADDData\CADD\DRAWN\76G56-shr-staging.dgn	CHECKED -	REVISED -			789	125B-2	MADISON	101	20	
Default	PLOT SCALE = 100.0000 ' / in.	DATE -	REVISED -			CONTRACT NO. 76G56					
	PLOT DATE = 10/20/2017					SCALE:	SHEET	OF	SHEETS	STA.	TO



-  INLET AND PIPE PROTECTION
-  EROSION CONTROL BLANKET
-  TEMPORARY DITCH CHECKS
(BASED ON HEIGHT AT CENTER - 1.0')
-  PERIMETER EROSION BARRIER

NOTE: TEMPORARY EROSION CONTROL SEEDING TO BE APPLIED TO ALL DISTURBED AREAS PER ART. 280.04(F) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION RATE = 100LB/AC.

-  HEAVY DUTY EROSION CONTROL BLANKET
-  RIPRAP

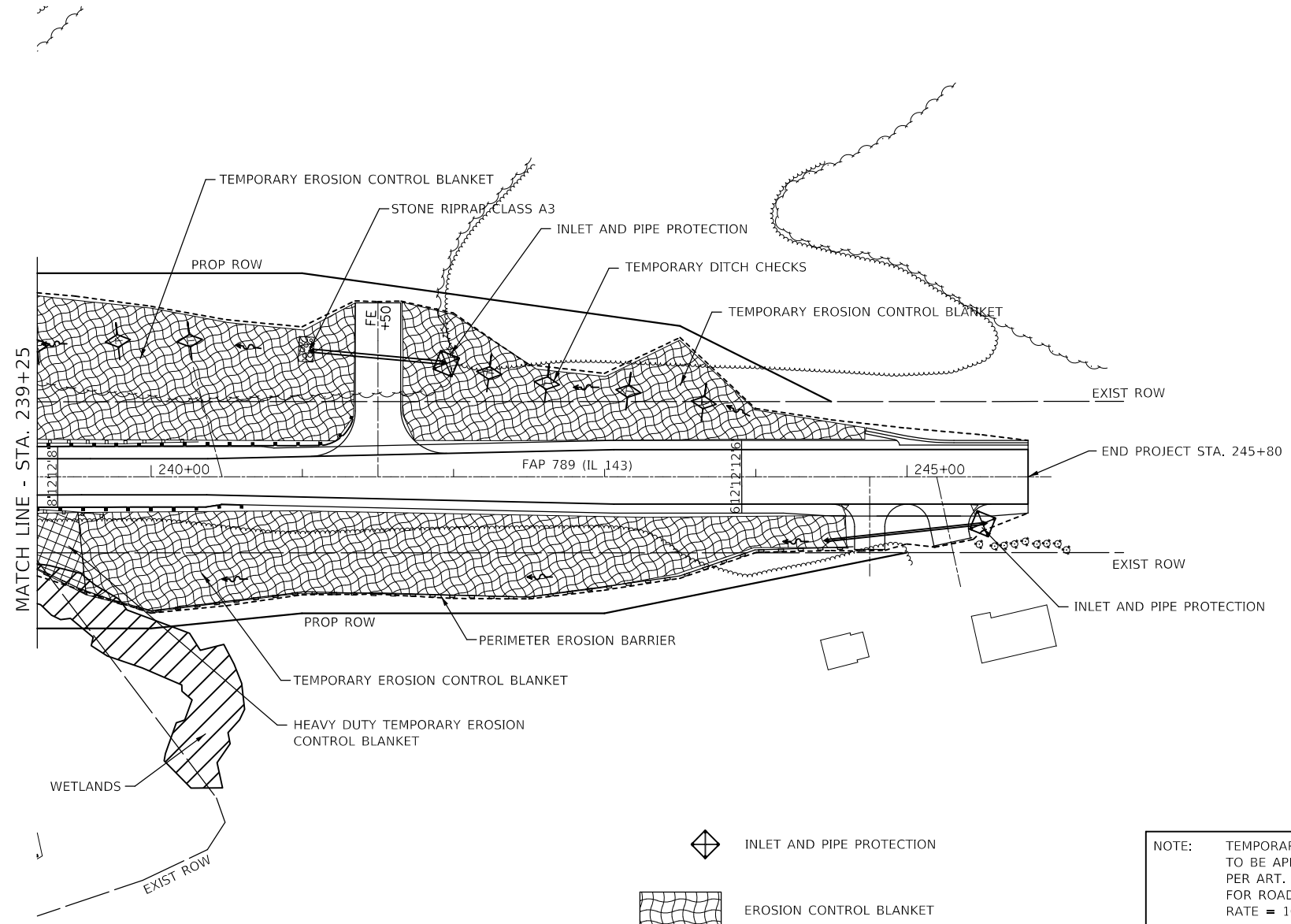
FILE NAME =	USER NAME = Burnsideem	DESIGNED -	REVISED -
pwz\1084EBID\INTEG.illinois.gov\PWIDOT\Documents\110DOT Offices\District 8\Projects\D876G56\CADDData\CADD\76G56-shr-eros.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 10/20/2017	DATE -	REVISED -





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL



SCALE: 1:50 SHEET 1 OF 2 SHEETS STA. 230+75 TO STA. 239+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	21
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



-  INLET AND PIPE PROTECTION
-  EROSION CONTROL BLANKET
-  TEMPORARY DITCH CHECKS
(BASED ON HEIGHT AT CENTER - 1.0')
-  PERIMETER EROSION BARRIER

NOTE: TEMPORARY EROSION CONTROL SEEDING TO BE APPLIED TO ALL DISTURBED AREAS PER ART. 280.04(F) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION RATE = 100LB/AC.

-  HEAVY DUTY EROSION CONTROL BLANKET
-  RIPRAP



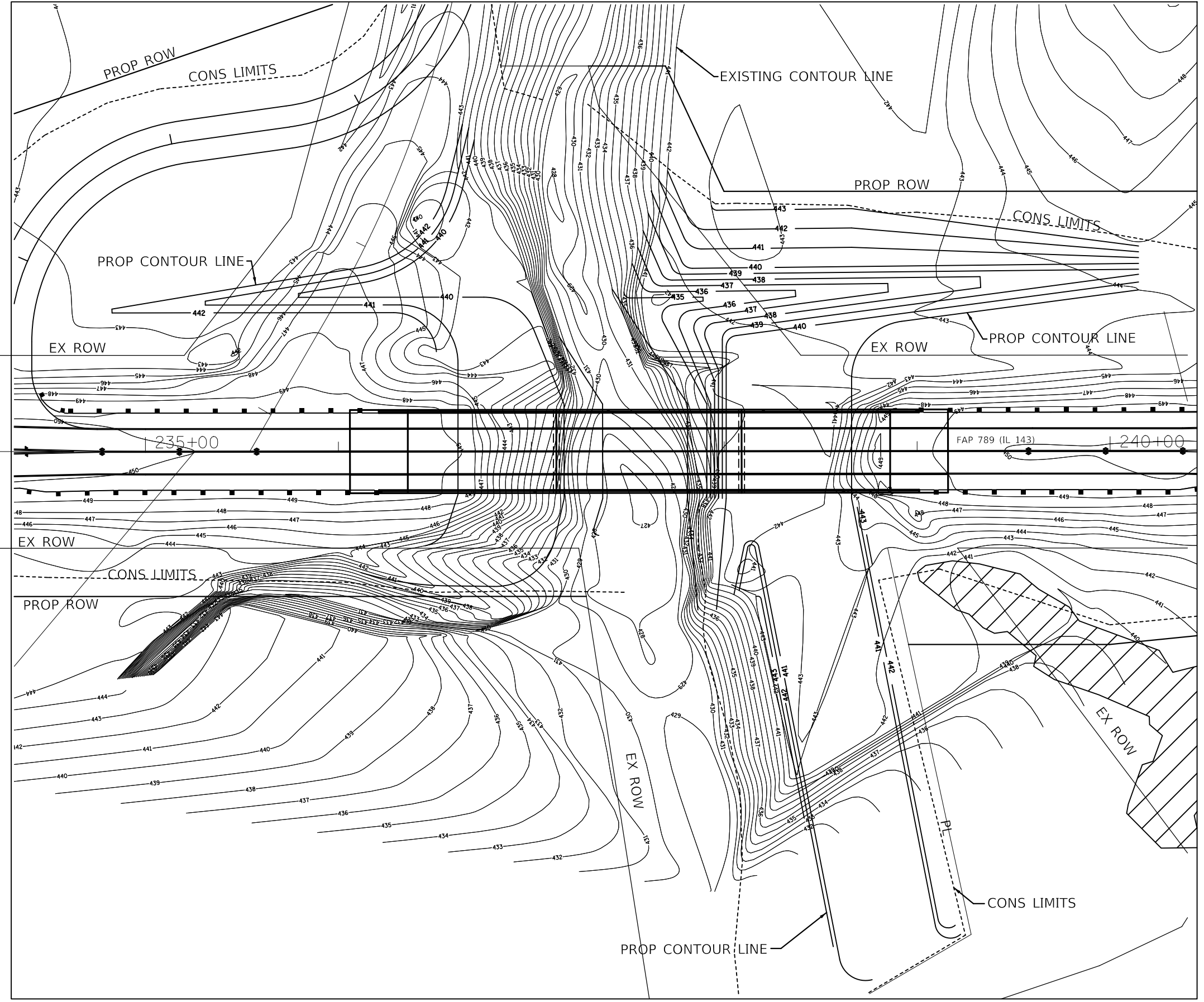
FILE NAME =	USER NAME = Burnsideem	DESIGNED -	REVISED -
pwz\1084EBID\INTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\D876G56\CADDData\CADD\76G56-shr-eros.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 11/9/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL

SCALE: 1:50 SHEET 2 OF 2 SHEETS STA. 239+25 TO STA. 245+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	22
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



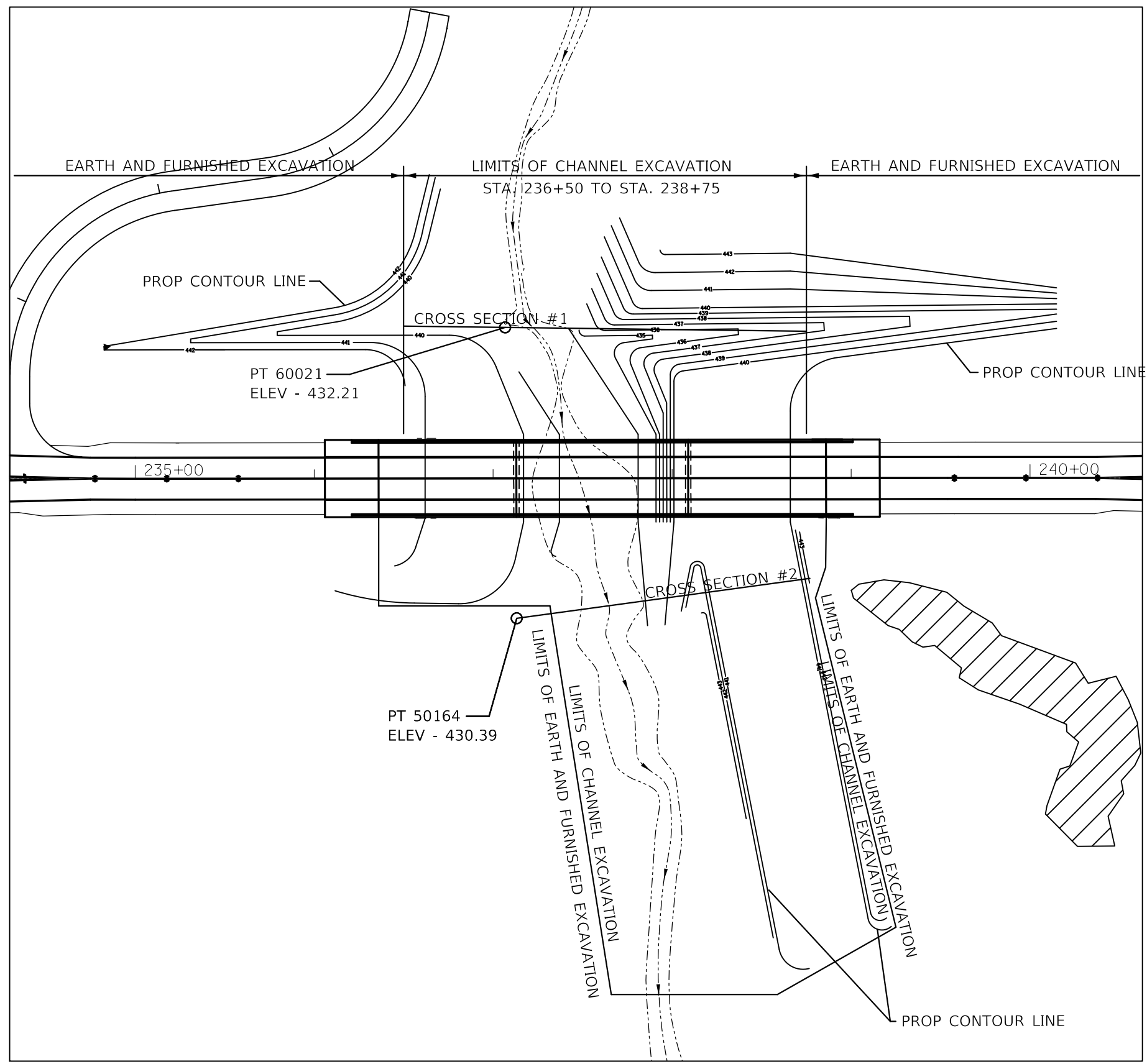
FILE NAME =	USER NAME = BurnsDeem	DESIGNED -	REVISED -
p:\z\1084EBID\INTEG.illinois.gov\PWIDOT\Documents\1\DOT Offices\District 8\Projects\D876G56\CADDData\CADD\DRAWN\6G56-shr-plan.dgn		REVISED -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
Default	PLOT DATE = 10/20/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SHEET
CHANNEL EXCAVATION CONTOUR LINES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	23
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



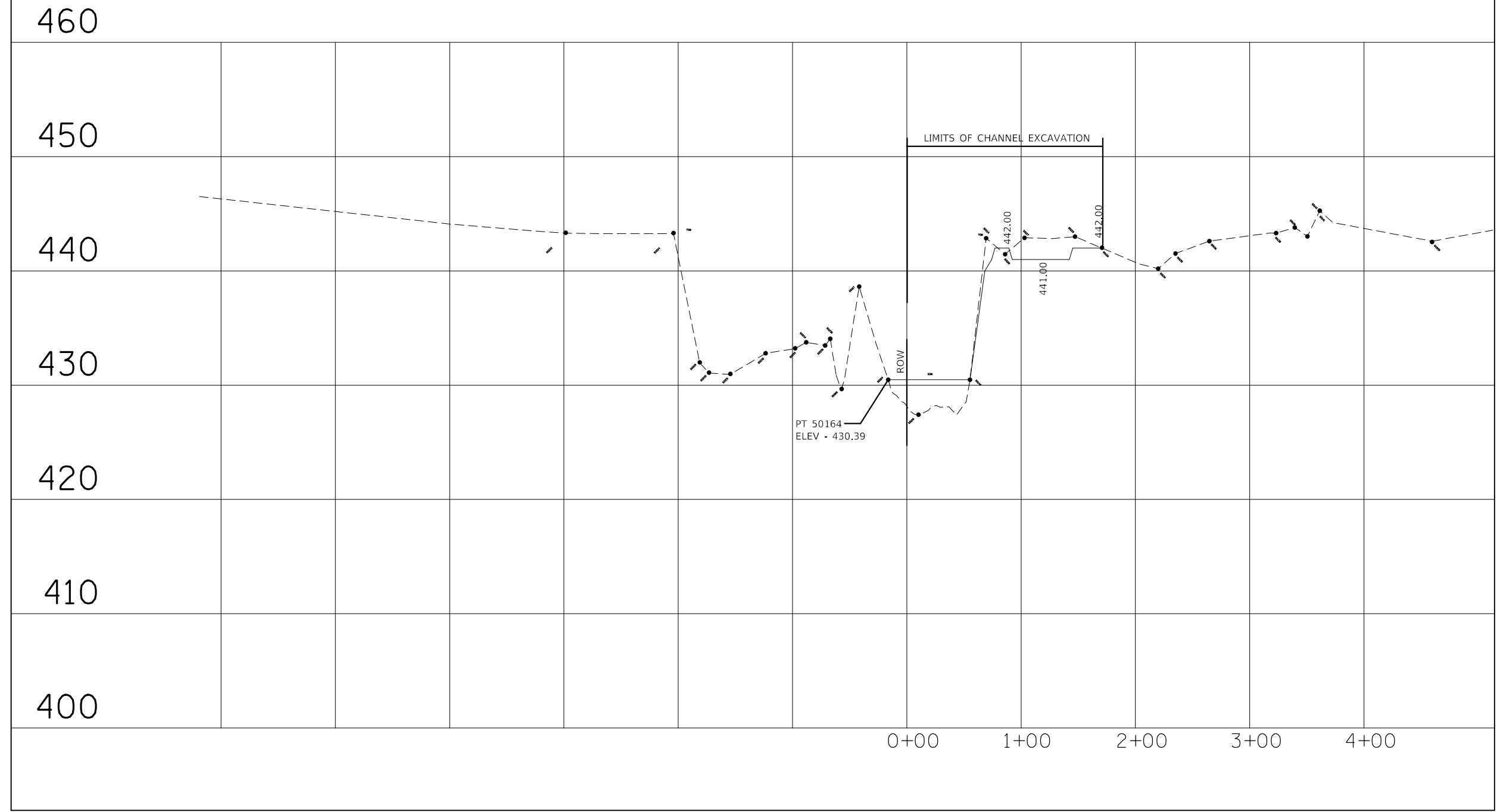
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Default	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

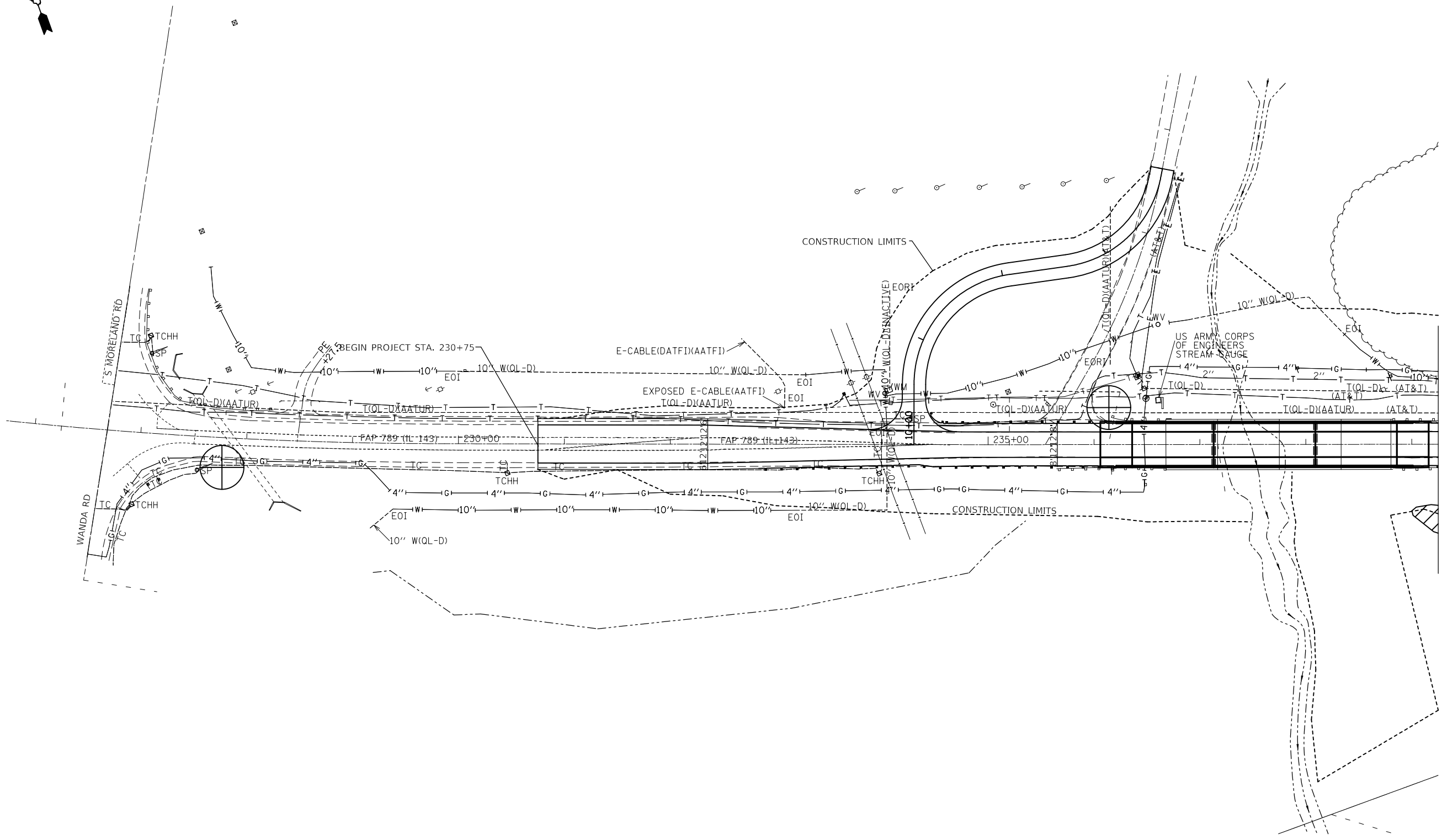
DRAINAGE SHEET CHANNEL EXCAVATION CONTOUR LINES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	24
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

CREEK CROSS SECTION #2 OFFSET 70' SOUTH



FILE NAME =	USER NAME = Burnsideem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SHEET CHANNEL EXCAVATION CROSS SECTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pwz\1084EBIDINTEG.illinois.gov:PWIDOT\Documents\1084EBIDINTEG\Projects\1084EBIDINTEG\CADDData\CADD\1084EBIDINTEG\1084EBIDINTEG.dgn	1084EBIDINTEG\Projects\1084EBIDINTEG\CADDData\CADD\1084EBIDINTEG\1084EBIDINTEG.dgn	DRAWN -	REVISED -			789	1258-2	MADISON	101	26	
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76G56					
	PLOT DATE = 10/20/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

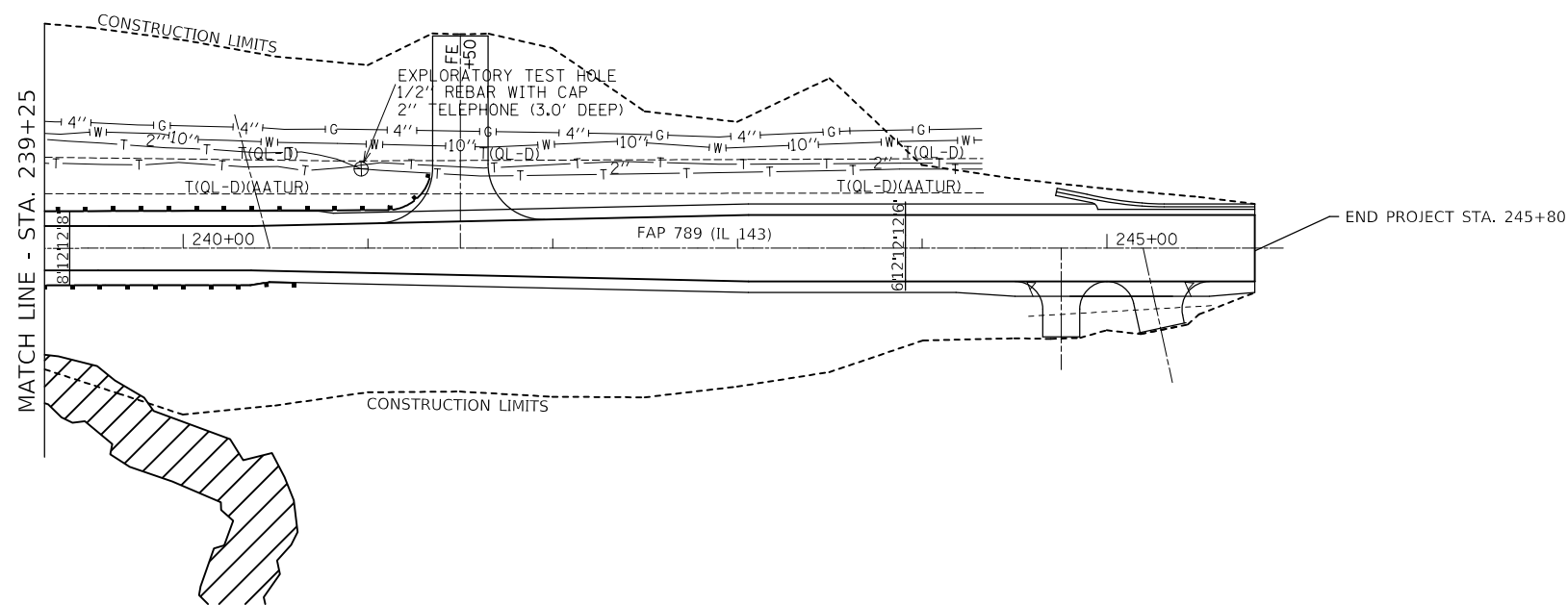


FILE NAME =	USER NAME = Burnsideem	DESIGNED -	REVISED -
pww\l084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\D876G56\CADDData\CADD\76G56-shr-plan.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 10/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

UTILITY SHEET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 27
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = Burnsideem	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/9/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

UTILITY SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	28
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

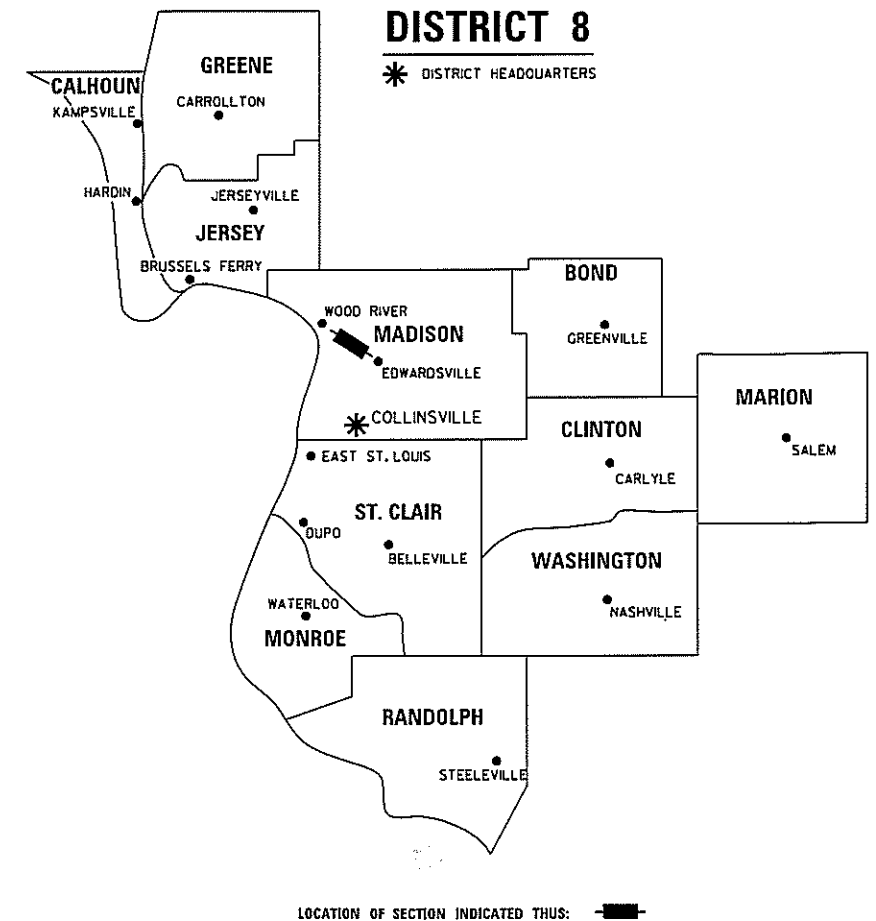
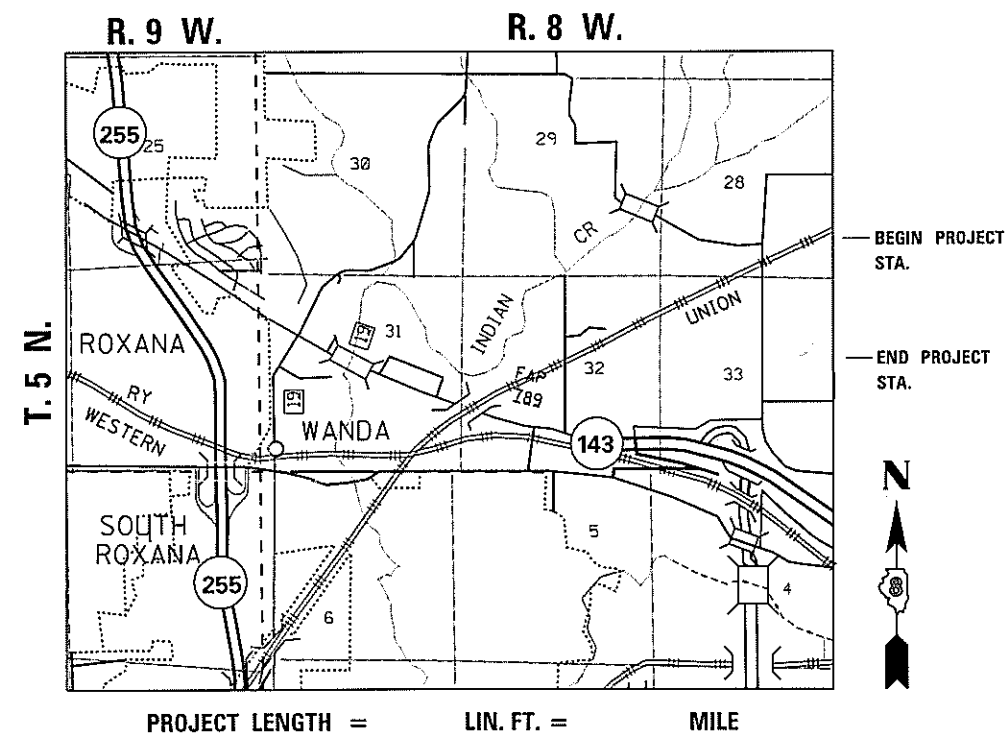
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS

FAP ROUTE 789 (IL 143)
SECTION 125B-2
MADISON COUNTY
JOB NO.
R-98-008-15

SHEET INDEX		
SHEET NO.	STATION TO STATION	DESCRIPTION
1	N/A	COVER
2	N/A	LEGEND/NOTES
3	226+00 TO 234+00	PLAT OF HIGHWAYS
4	234+00 TO 247+50	PLAT OF HIGHWAYS
5	N/A	TOTAL HOLDING SKETCH
6	N/A	TOTAL HOLDING SKETCH

SPACE RESERVED FOR RECORDING OFFICER



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

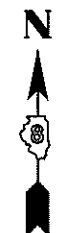
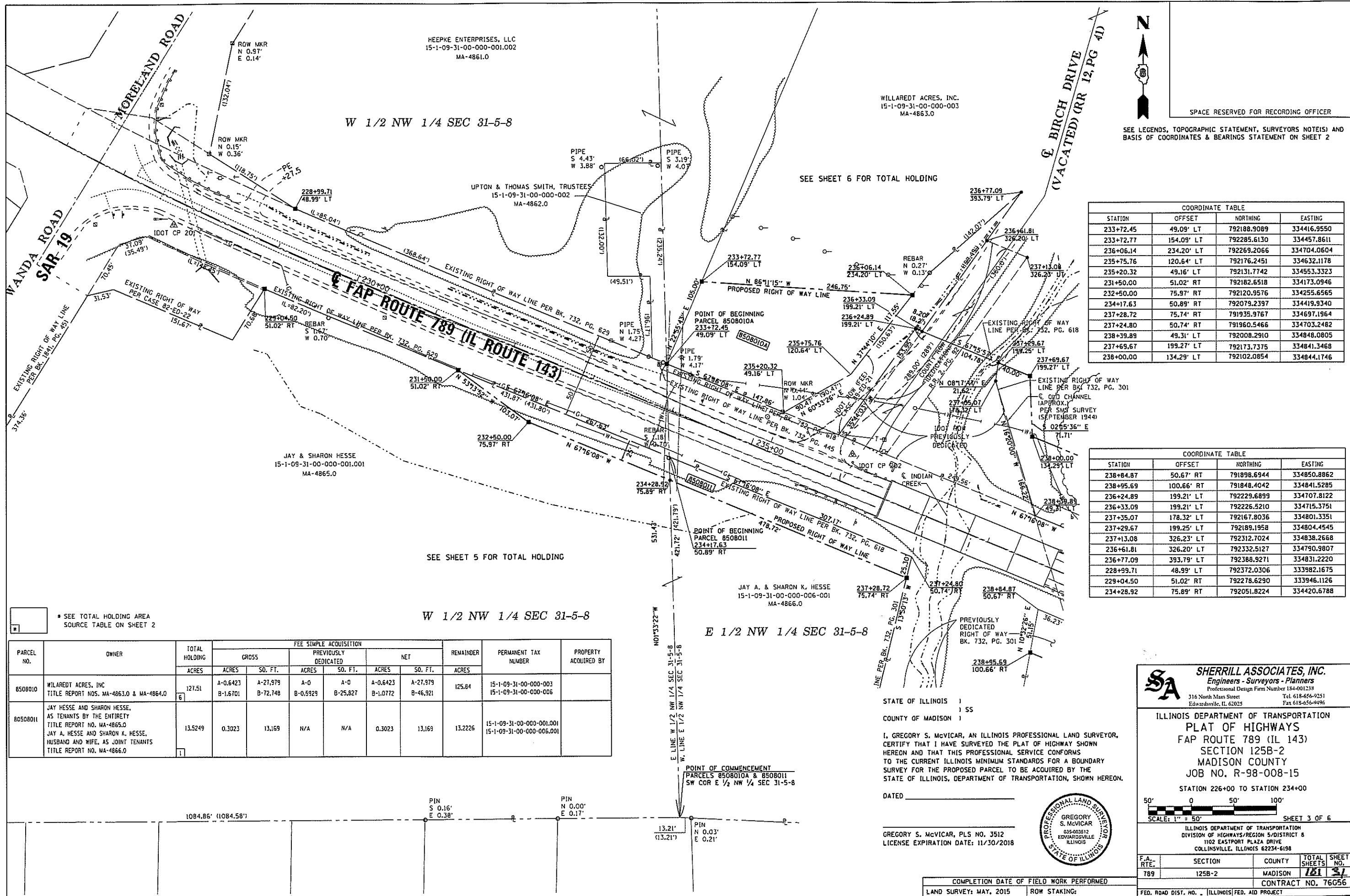


GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2018

SHEET 1 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	29
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT CONTRACT NO. 76C56	

PART OF THE NW 1/4 OF SEC 31, T 5 N, R 8 W, OF THE 3RD PM, MADISON COUNTY



SPACE RESERVED FOR RECORDING OFFICER

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

COORDINATE TABLE

STATION	OFFSET	NORTHING	EASTING
233+72.45	49.09' LT	792188.9089	334416.9550
233+72.77	154.09' LT	792285.6130	334457.8611
236+06.14	234.20' LT	792269.2066	334704.0604
235+75.76	120.64' LT	792176.2451	334632.1178
235+20.32	49.16' LT	792131.7742	334553.3323
231+50.00	51.02' RT	792182.6518	334173.0946
232+50.00	75.97' RT	792120.9576	334255.6565
234+17.63	50.89' RT	792079.2397	33419.9340
237+28.72	75.74' RT	791935.9767	334697.1964
237+24.80	50.74' RT	791960.5466	334703.2482
238+39.89	49.31' LT	792008.2910	334848.0805
237+69.67	199.27' LT	792173.7375	334841.3468
238+00.00	134.29' LT	792102.0854	334844.1746

COORDINATE TABLE

STATION	OFFSET	NORTHING	EASTING
238+84.87	50.67' RT	791898.6944	334850.8862
238+95.69	100.66' RT	791848.4042	334841.5285
236+24.89	199.21' LT	792229.6899	334707.8122
236+33.09	199.21' LT	792226.5210	334715.3751
237+35.07	178.32' LT	792167.8036	334801.3351
237+29.67	199.25' LT	792189.1958	334804.4545
237+13.08	326.23' LT	792312.7024	334838.2668
236+61.81	326.20' LT	792332.5127	334790.9807
236+77.09	393.79' LT	792388.9271	334831.2220
228+99.71	48.99' RT	792372.0306	333982.1675
229+04.50	51.02' RT	792278.6290	333946.1126
234+28.92	75.89' RT	792051.8224	334420.6788

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY	
			GROSS ACRES	SO. FT.	PREVIOUSLY DEDICATED ACRES	SO. FT.				NET ACRES
8508010	WILAREDT ACRES, INC TITLE REPORT NOS. MA-4863.0 & MA-4864.0	127.51	A-0.6423 B-1.6701	A-27,979 B-72,748	A-0 B-0.5929	A-0 B-25,827	A-0.6423 B-1.0772	A-27,979 B-46,921	125.84 15-1-09-31-00-000-003 15-1-09-31-00-000-005	
8508011	JAY HESSE AND SHARON HESSE, AS TENANTS BY THE ENTIRETY TITLE REPORT NO. MA-4865.0 JAY A. HESSE AND SHARON K. HESSE, HUSBAND AND WIFE, AS JOINT TENANTS TITLE REPORT NO. MA-4866.0	13.5249	0.3023	13,169	N/A	N/A	0.3023	13,169	13.2226 15-1-09-31-00-000-001.001 15-1-09-31-00-000-006.001	

STATE OF ILLINOIS 1
COUNTY OF MADISON 1 SS

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
316 North Main Street, Edwardsville, IL 62025
Tel: 618-656-9251 Fax: 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 789 (IL 143)
SECTION 125B-2
MADISON COUNTY
JOB NO. R-98-008-15
STATION 226+00 TO STATION 234+00

SCALE: 1" = 50'

SHEET 3 OF 6

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	181	31

COMPLETION DATE OF FIELD WORK PERFORMED: LAND SURVEY: MAY, 2015 ROW STAKING:

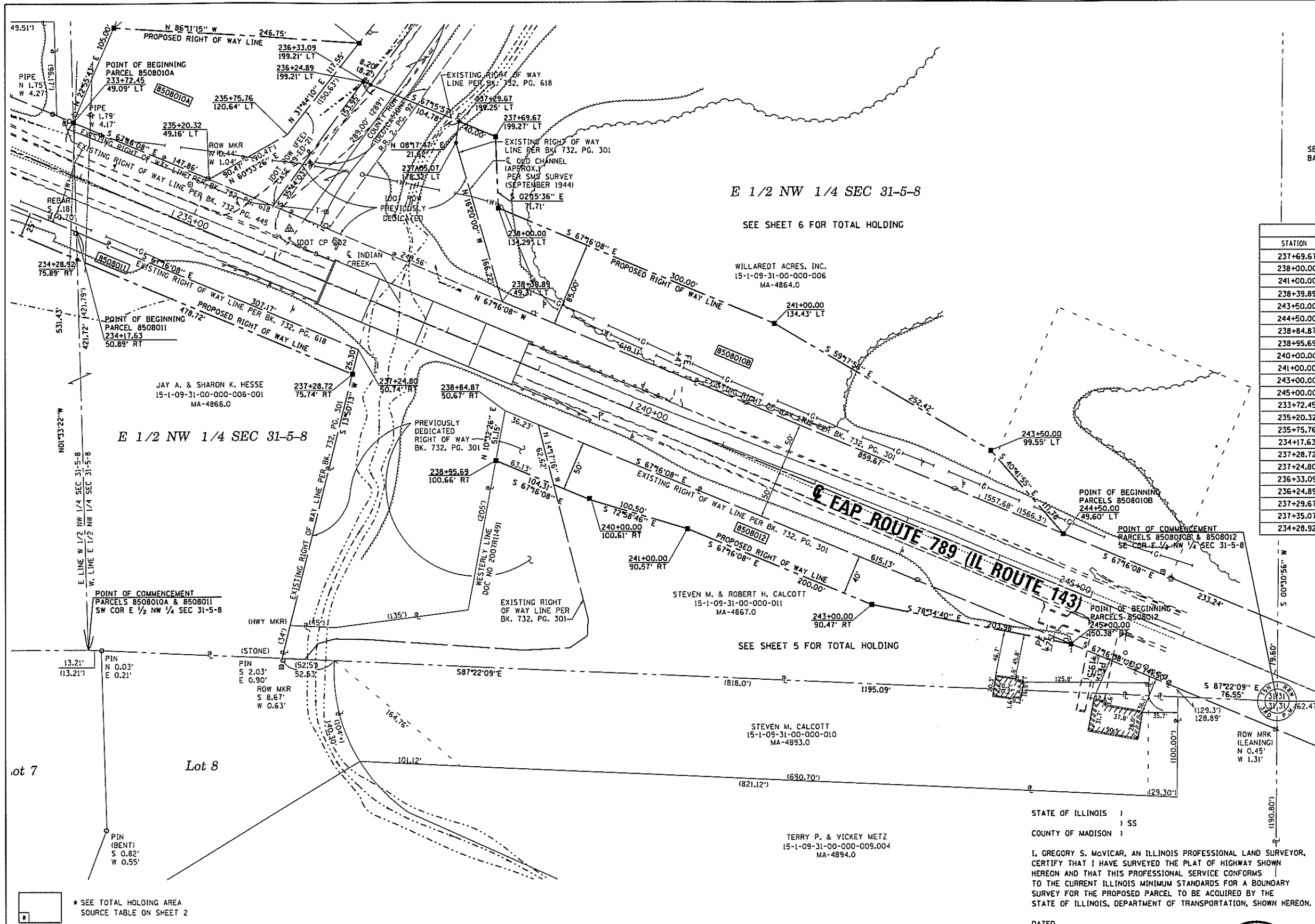
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

PART OF THE E 1/2 OF THE NW 1/4 OF SEC 31, T 5 N, R 8 W, OF THE 3RD PM, MADISON COUNTY



SPACE RESERVED FOR RECORDING OFFICER

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



COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
237+69.67	199.27' LT	792173.7375	334841.3468
238+00.00	134.29' LT	792102.0854	334844.1746
241+00.00	134.43' LT	791986.1638	335120.8733
238+39.89	49.31' LT	792008.2910	334848.0805
243+50.00	99.55' LT	791857.2874	335337.9161
244+50.00	49.60' LT	791772.5395	335410.8059
238+84.87	50.67' RT	791898.6944	334850.8862
238+95.69	100.66' RT	791848.4042	334841.5285
240+00.00	100.61' RT	791808.1001	334937.7323
241+00.00	90.57' RT	791778.6810	335033.8337
243+00.00	90.47' RT	791701.3999	335218.2995
245+00.00	50.38' RT	791661.0047	335418.2391
233+72.45	49.09' LT	792188.9089	334416.9550
235+20.32	49.16' LT	792131.7742	334553.3323
235+75.76	120.64' RT	792176.2451	334632.1178
234+17.63	50.89' RT	792079.2397	334419.9340
237+28.72	75.74' RT	791935.9767	334697.1964
237+24.80	50.74' RT	791960.5466	334703.2482
236+33.09	199.21' LT	792226.5210	334715.3751
236+24.89	199.21' LT	792229.6899	334707.8122
237+29.67	199.25' LT	792189.1958	334804.4545
237+35.07	178.32' LT	792167.8036	334801.3351
234+28.92	75.89' RT	792051.8224	334420.6788

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS ACRES	PREVIOUSLY DEDICATED ACRES	NET ACRES	PERMANENT TAX NUMBER			
8508010	WILLARET ACRES, INC TITLE REPORT NOS. MA-4863.0 & MA-4864.0	127.51	A-0.6423	A-27.979	A-0	A-0	A-0.6423	A-27.979	15-1-09-31-00-000-003 15-1-09-31-00-000-006
8508012	STEVEN M. CALCOTT AND ROBERT H. CALCOTT, AS JOINT TENANTS TITLE REPORT NO. MA-4867.0	2.3863	B-1.6701	B-72.748	B-0.5929	B-25.827	B-1.0772	B-46.921	15-1-09-31-00-000-011

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: MAY, 2015 ROW STAKING:

SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number: 184-001238
316 North Main Street
Edwardsville, IL 62025 Tel: 618-456-9251 Fax: 618-456-9596

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 789 (IL 143)
SECTION 125B-2
MADISON COUNTY
JOB NO. R-98-008-15
STATION 234+00 TO STATION 247+50

SCALE: 1" = 50'

SHEET 4 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	32

CONTRACT NO. 76G56
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

PART OF THE NW 1/4 OF SEC 31, T 5 N, R 8 W, OF THE 3RD PM, MADISON COUNTY



SPACE RESERVED FOR RECORDING OFFICER

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

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.

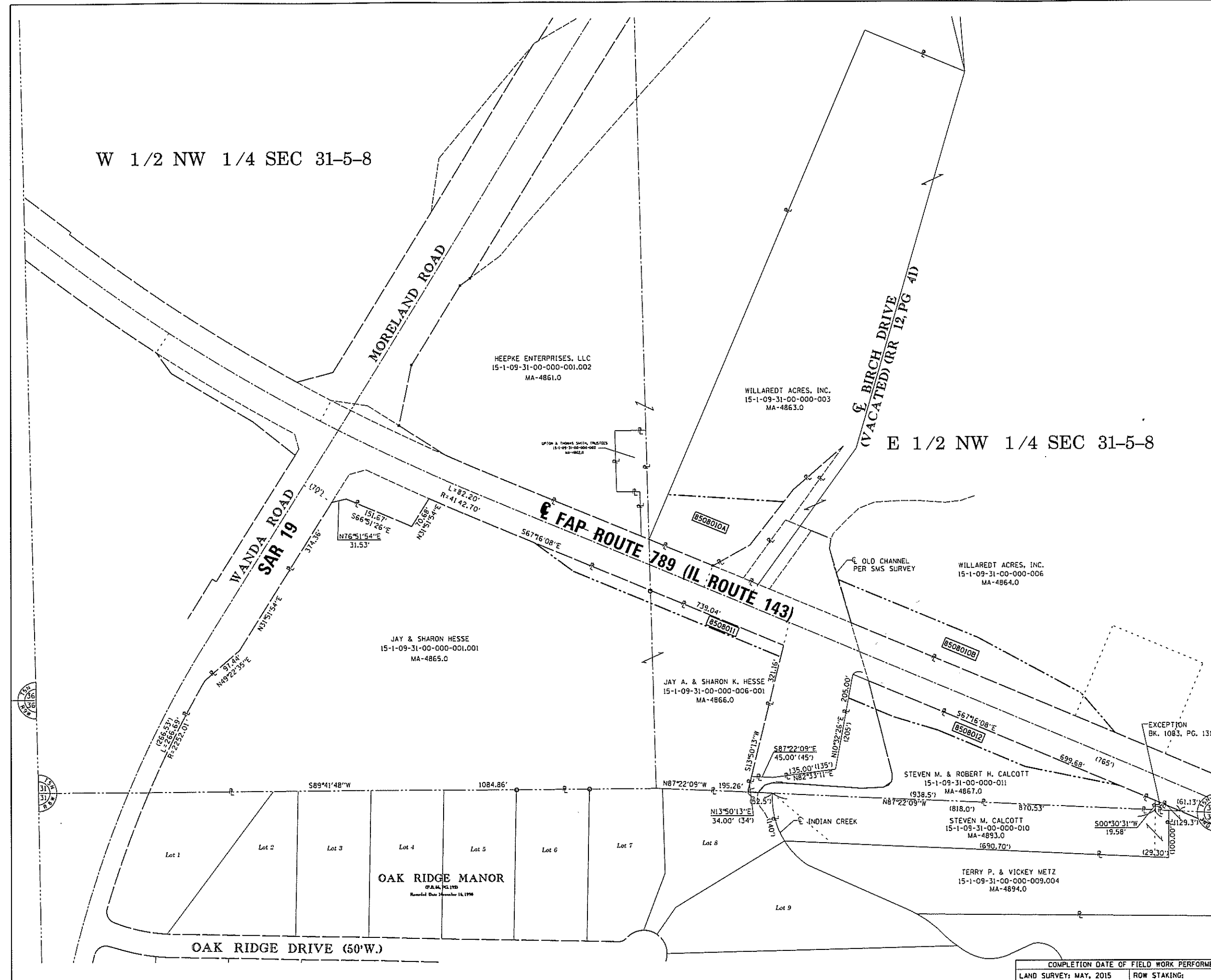
DATED _____

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



W 1/2 NW 1/4 SEC 31-5-8

E 1/2 NW 1/4 SEC 31-5-8



SA SHERRILL ASSOCIATES, INC.
 Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001318
 316 North Main Street, Edwardsville, IL 62025
 Tel: 618-656-0251 Fax: 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 789 (IL 143)
 SECTION 125B-2
 MADISON COUNTY
 JOB NO. R-98-008-15

TOTAL HOLDING SKETCH
 SCALE: 1" = 200'
 SHEET 5 OF 6

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	53

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: MAY, 2015	ROW STAKING:

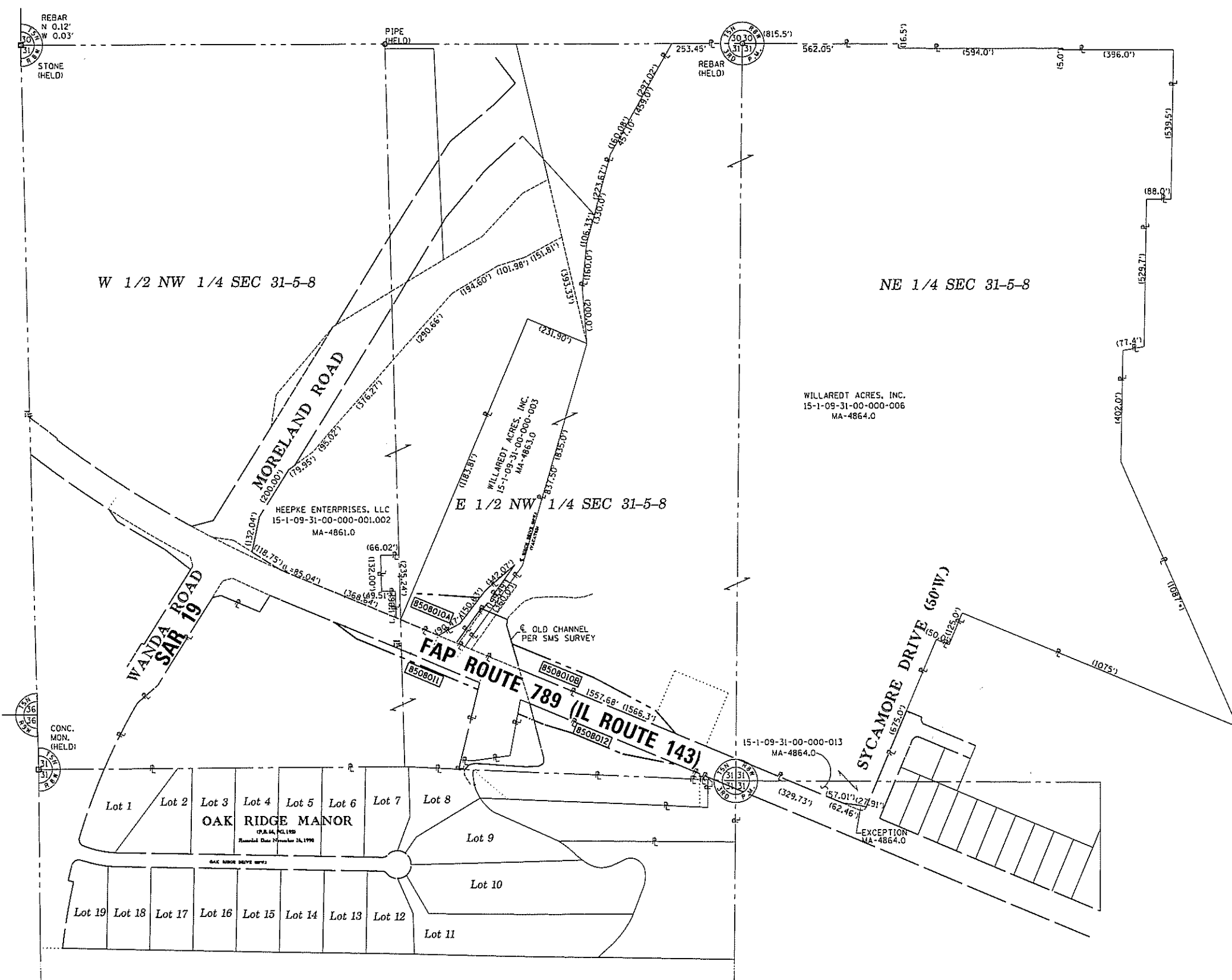
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

PART OF THE NW 1/4 OF SEC 31, T 5 N, R 8 W, OF THE 3RD PM, MADISON COUNTY



SPACE RESERVED FOR RECORDING OFFICER

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



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 Tel. 618-656-9251
 Edwardsville, IL 62025 Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS
 FAP ROUTE 789 (IL 143)
 SECTION 125B-2
 MADISON COUNTY
 JOB NO. R-98-008-15

TOTAL HOLDING SKETCH

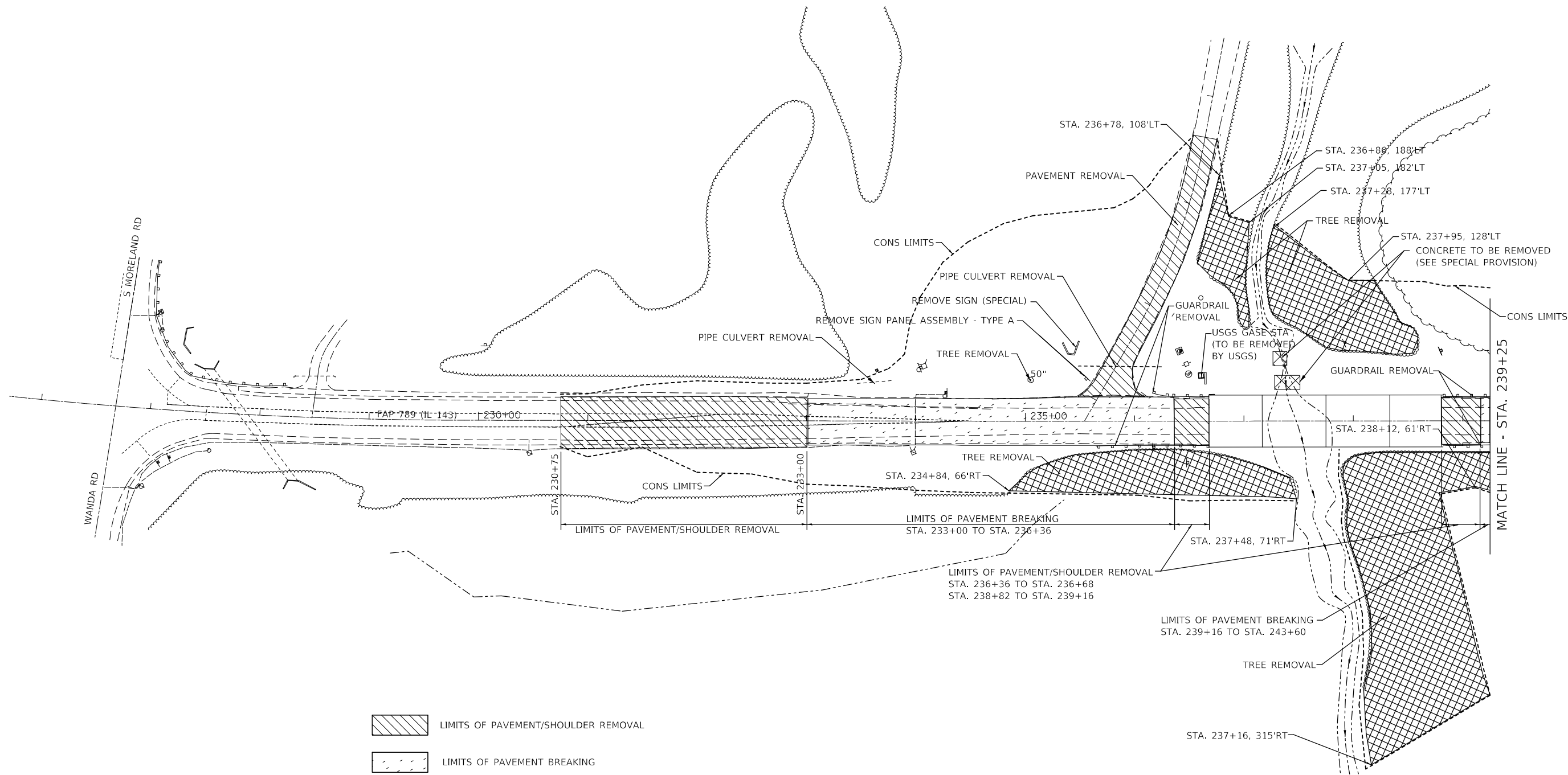
 SCALE: 1" = 200' SHEET 6 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	34

CONTRACT NO. 76056

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: MAY, 2015	ROW STAKING:



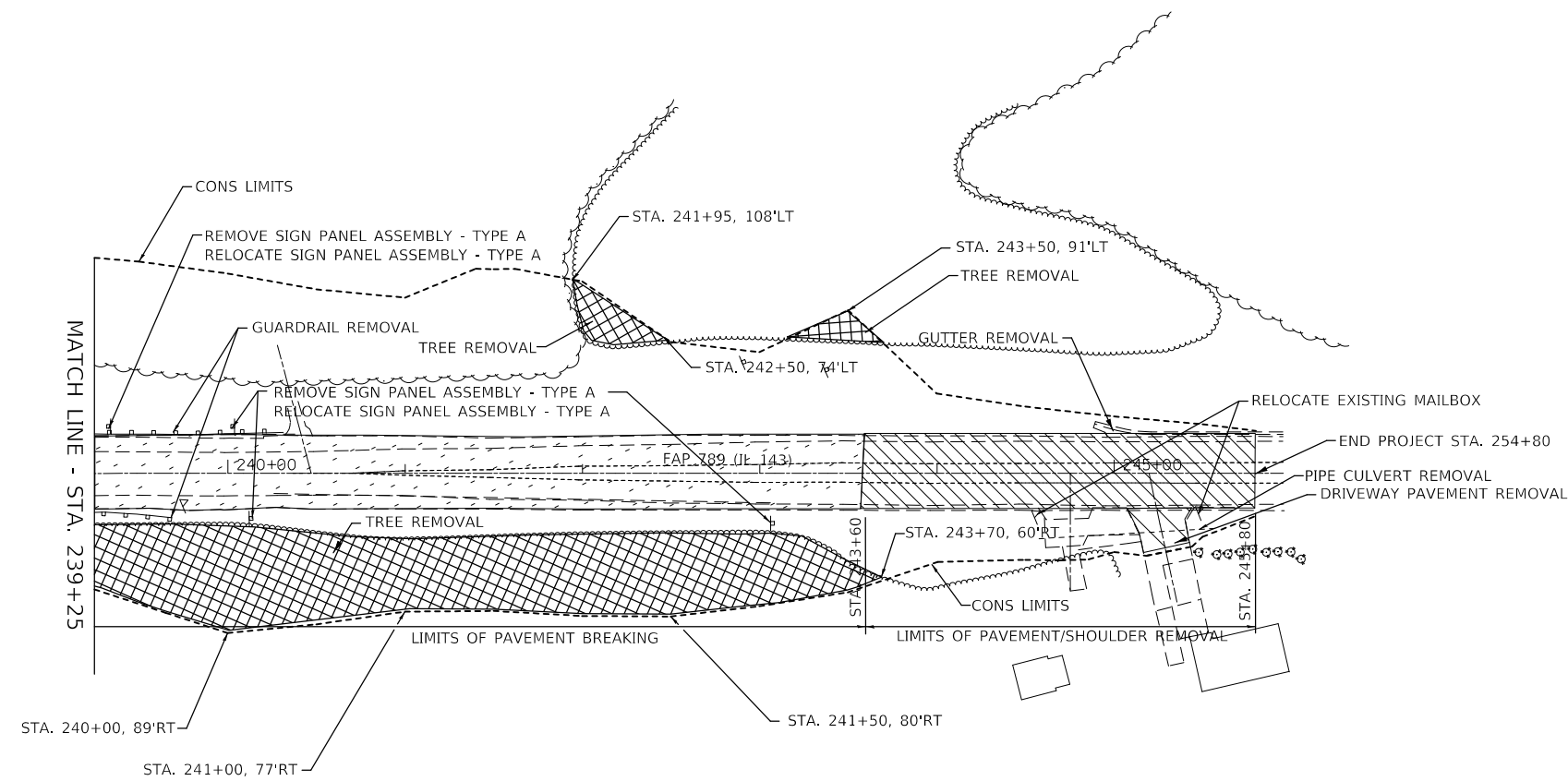
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G56	



- LIMITS OF PAVEMENT/SHOULDER REMOVAL
- LIMITS OF PAVEMENT BREAKING
- TREE REMOVAL
- CONCRETE TO BE REMOVED
- DRIVEWAY PAVEMENT REMOVAL



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

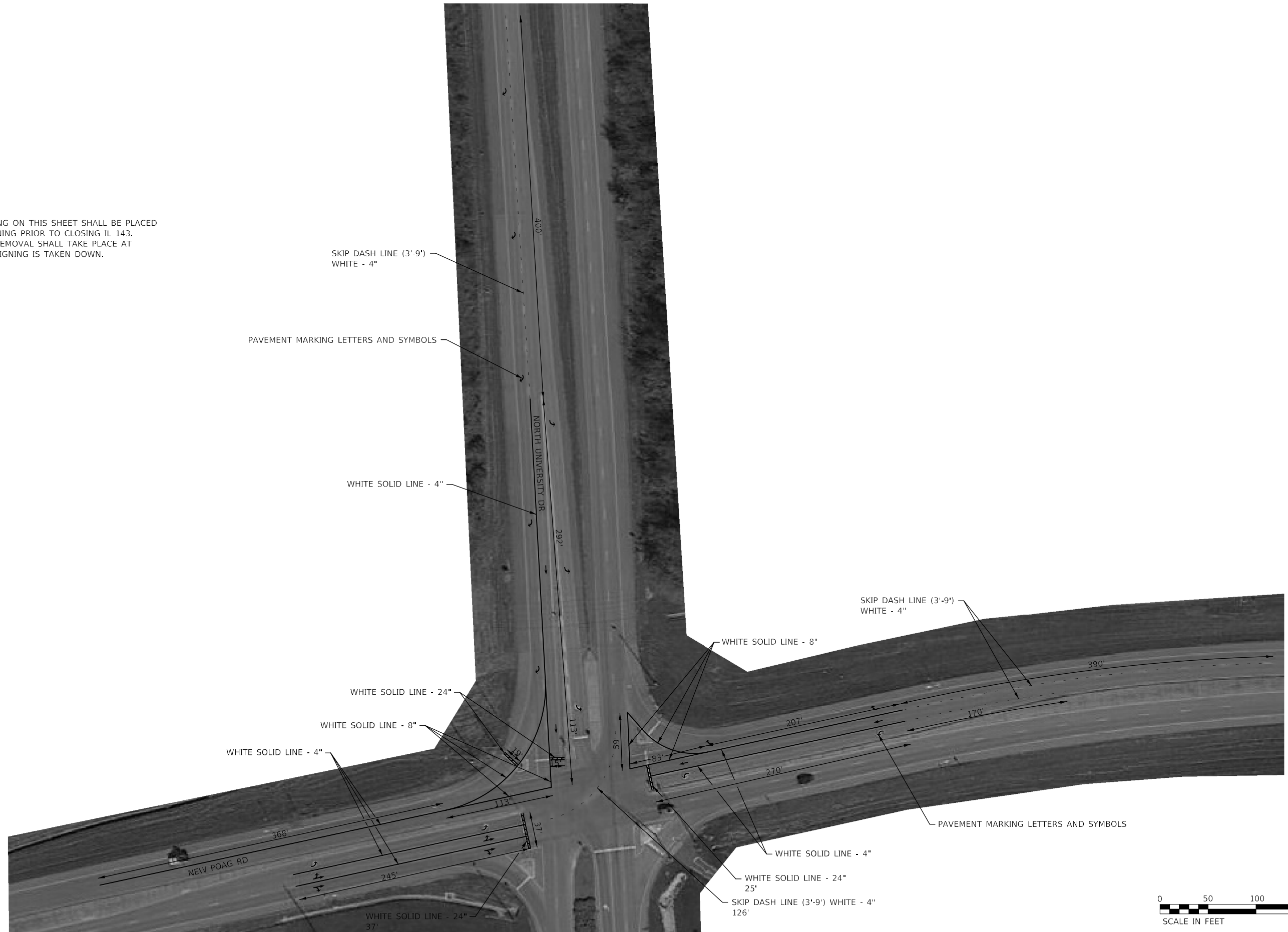
REMOVAL SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G56	



NOTE:
 ALL DETOUR PAVEMENT MARKING ON THIS SHEET SHALL BE PLACED
 ALONG WITH THE DETOUR SIGNING PRIOR TO CLOSING IL 143.
 DETOUR PAVEMENT MARKING REMOVAL SHALL TAKE PLACE AT
 THE SAME TIME THE DETOUR SIGNING IS TAKEN DOWN.



FILE NAME =	USER NAME = Burnsideem	DESIGNED -	REVISED -
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Default	PLOT DATE = 10/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING SHEET			
SCALE:	SHEET 2	OF 2	SHEETS
	STA.		TO STA.

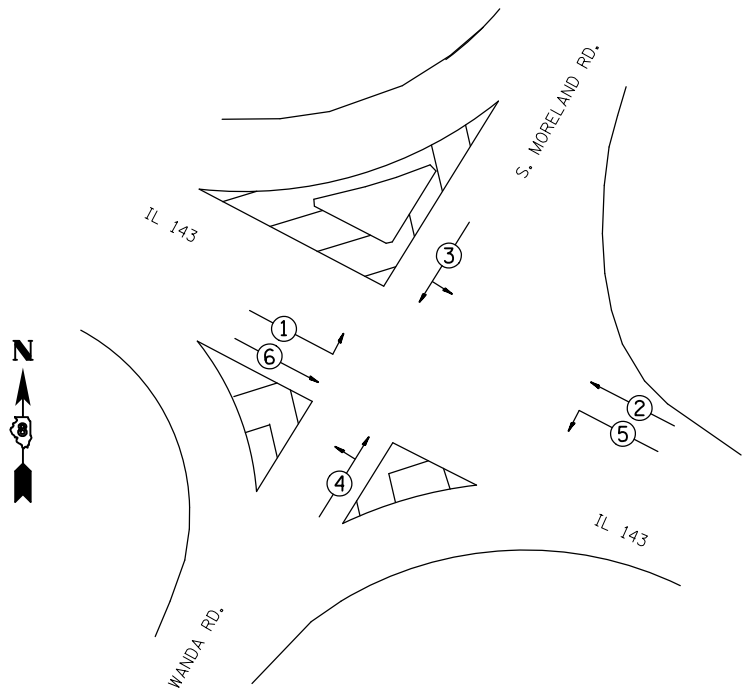
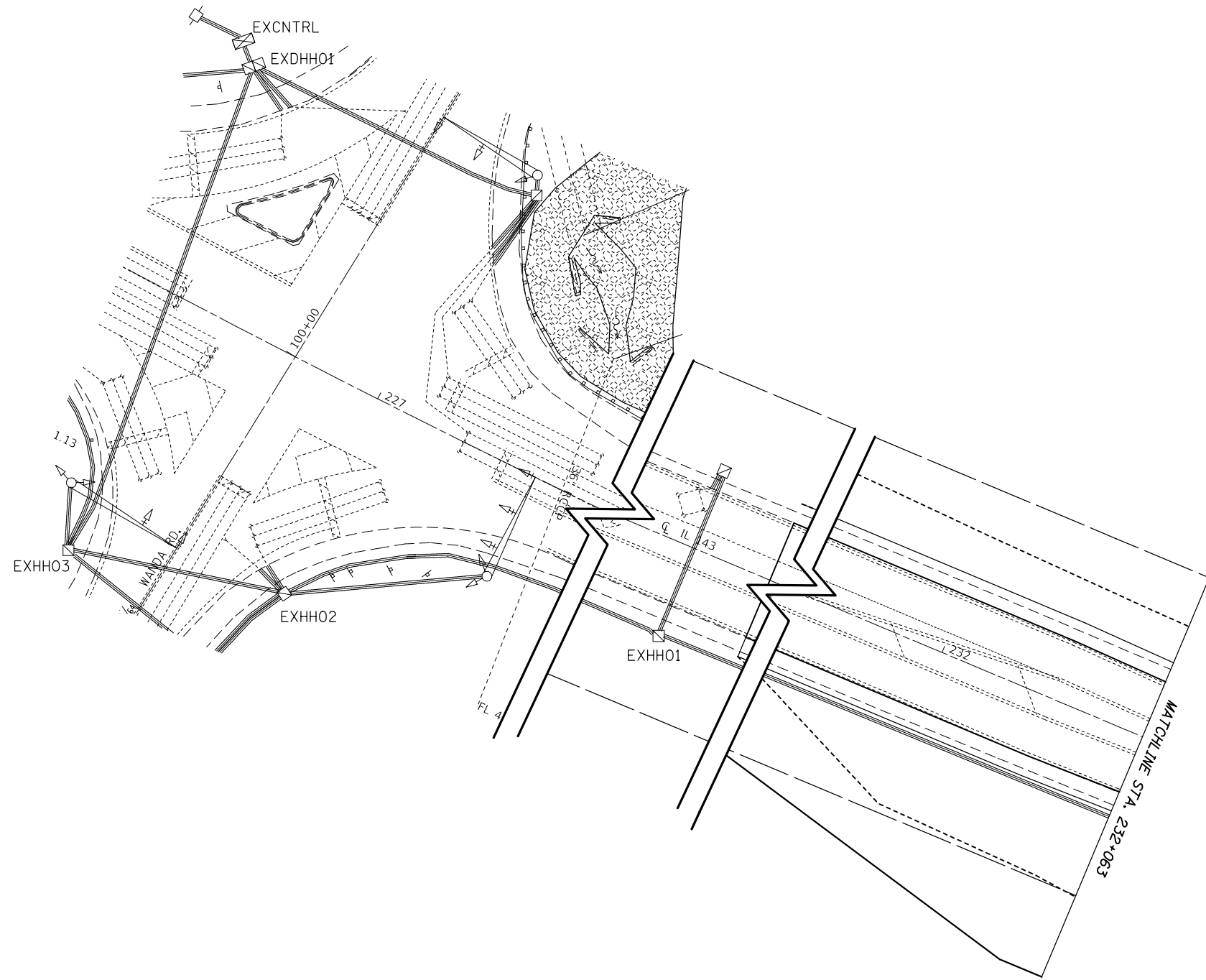
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	38
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



PROPOSED TRAFFIC SIGNAL FACES

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET AND FLASHER CONTROLLER

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT							NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2		



PHASE DESIGNATION DIAGRAM



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PLOT DATE = 10/20/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 143 AND WANDA RD./S. MORELAND RD.
TRAFFIC SIGNAL PLAN (1 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	40
CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT	

PR 1/2" PVCC COND. - 53'
 LOCATE UNDERGR CABLE - 53'
 CONC FDN TY A - 3'
 UNDRGRD C PVC 1/2" - 53'
 2/C NO. 12 ELECTRIC CABLE

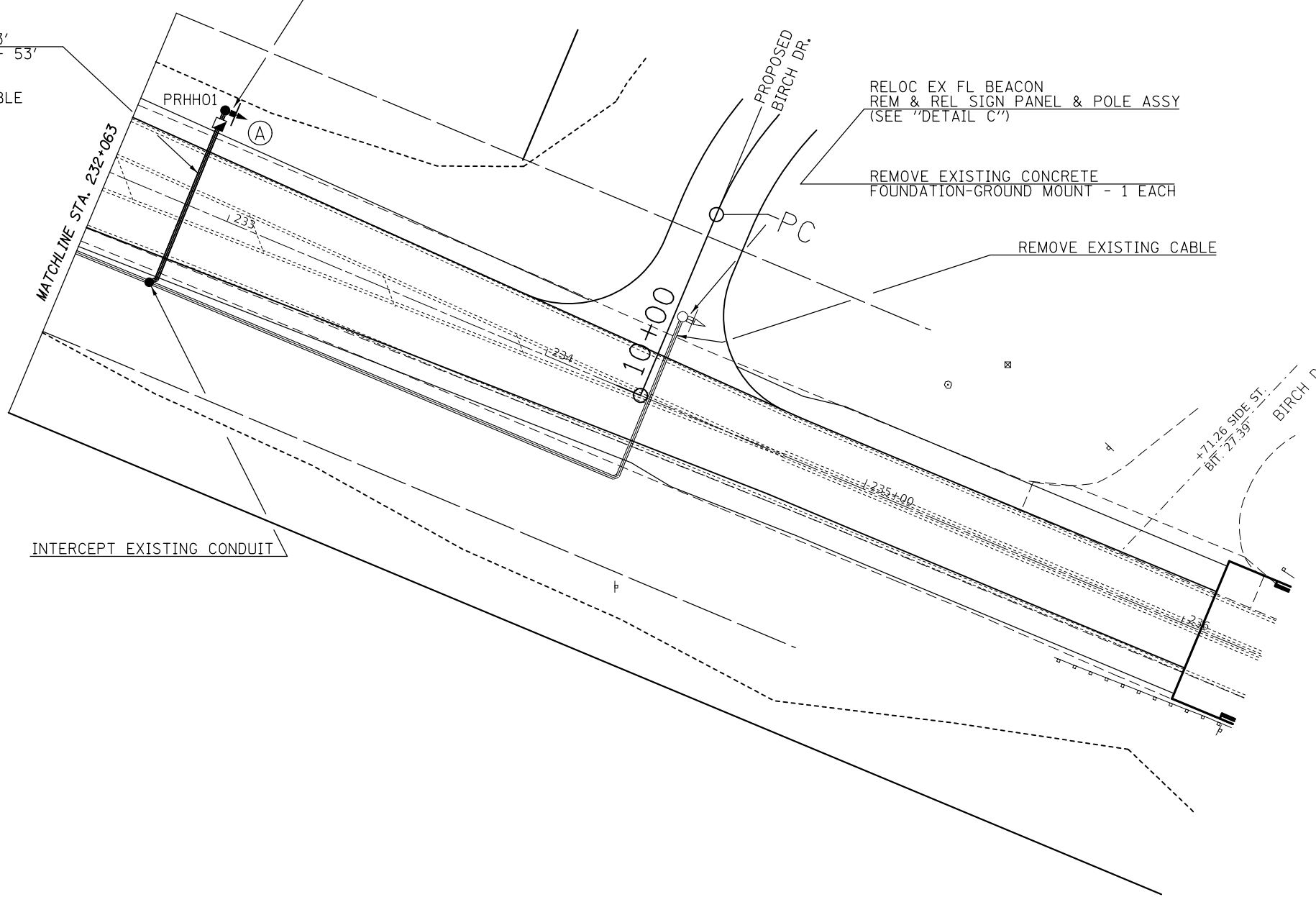
INSTALL EX FL BEACON
 INSTALL EX SIGN PANEL & POLE ASSY
 (SEE "DETAIL C")

REMOVE EXISTING ELECTRIC
 CABLE FROM EXISTING
 FLASHING BEACON LOCATION - 1080 FT

RELOC EX FL BEACON
 REM & REL SIGN PANEL & POLE ASSY
 (SEE "DETAIL C")

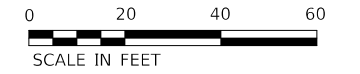
REMOVE EXISTING CONCRETE
 FOUNDATION-GROUND MOUNT - 1 EACH

REMOVE EXISTING CABLE



INTERCEPT EXISTING CONDUIT

+1126 SIDE ST.
 BIT: 27.35'
 BIRCH DR.



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PLOT DATE = 10/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



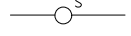
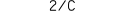
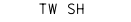
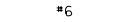

**IL 143 AND WANDA RD./S. MORELAND RD.
 TRAFFIC SIGNAL PLAN (2 OF 2)**

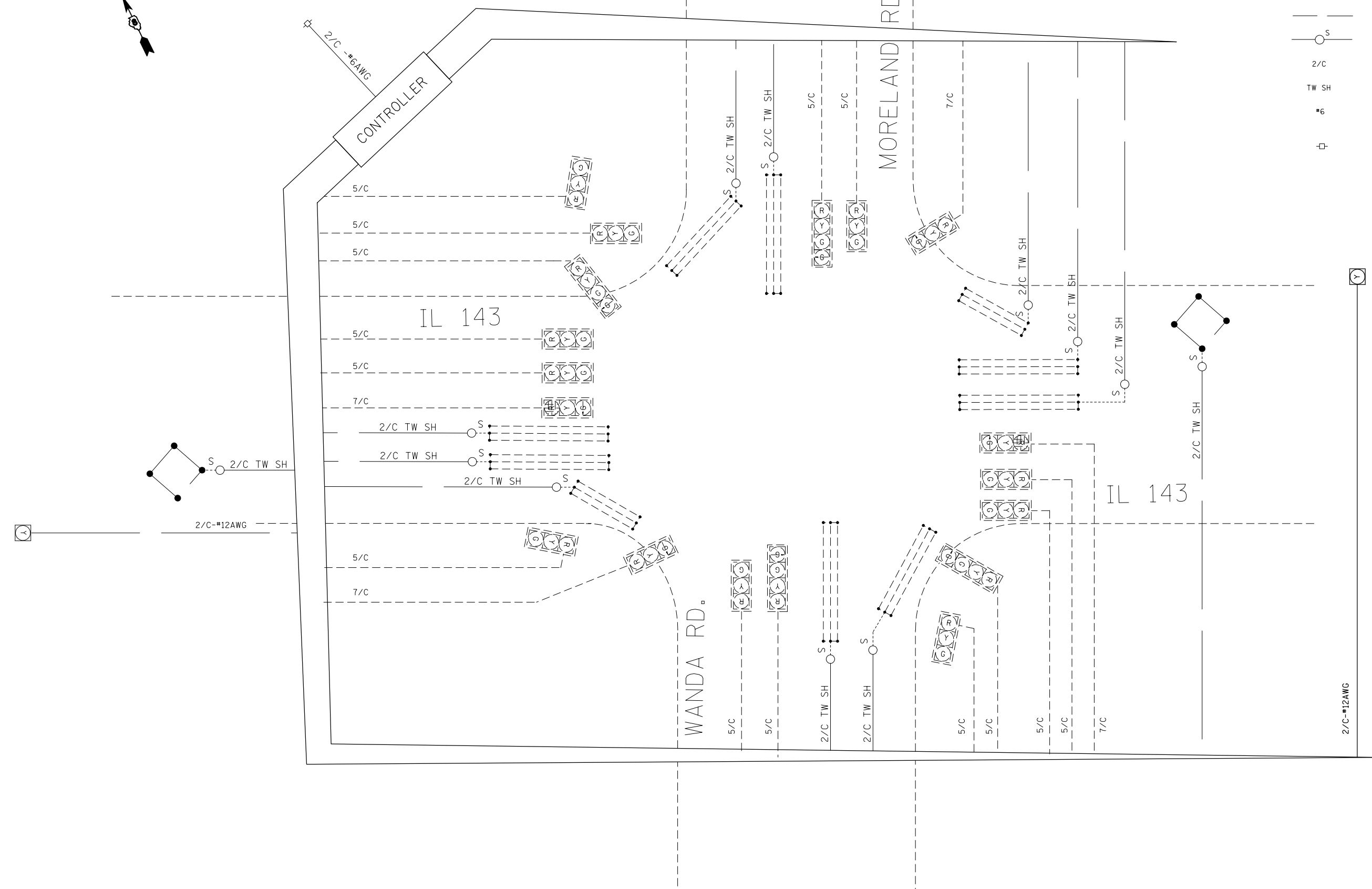
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	41
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



CABLE DIAGRAM LEGEND

-  PROPOSED ELECTRIC CABLE IN CONDUIT
-  EXISTING ELECTRIC CABLE IN CONDUIT
-  EXISTING CABLE SPLICE
-  INDICATES NUMBER OF CONDUCTORS IN CABLE
-  TWISTED AND SHIELDED CABLE
-  INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
-  EXISTING SERVICE INSTALLATION



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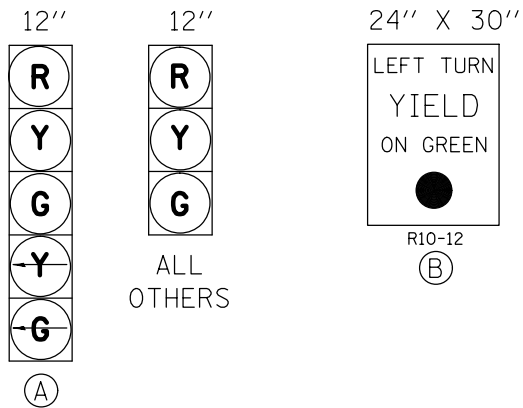
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 143 AND WANDA RD./S. MORELAND RD.
CABLE DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

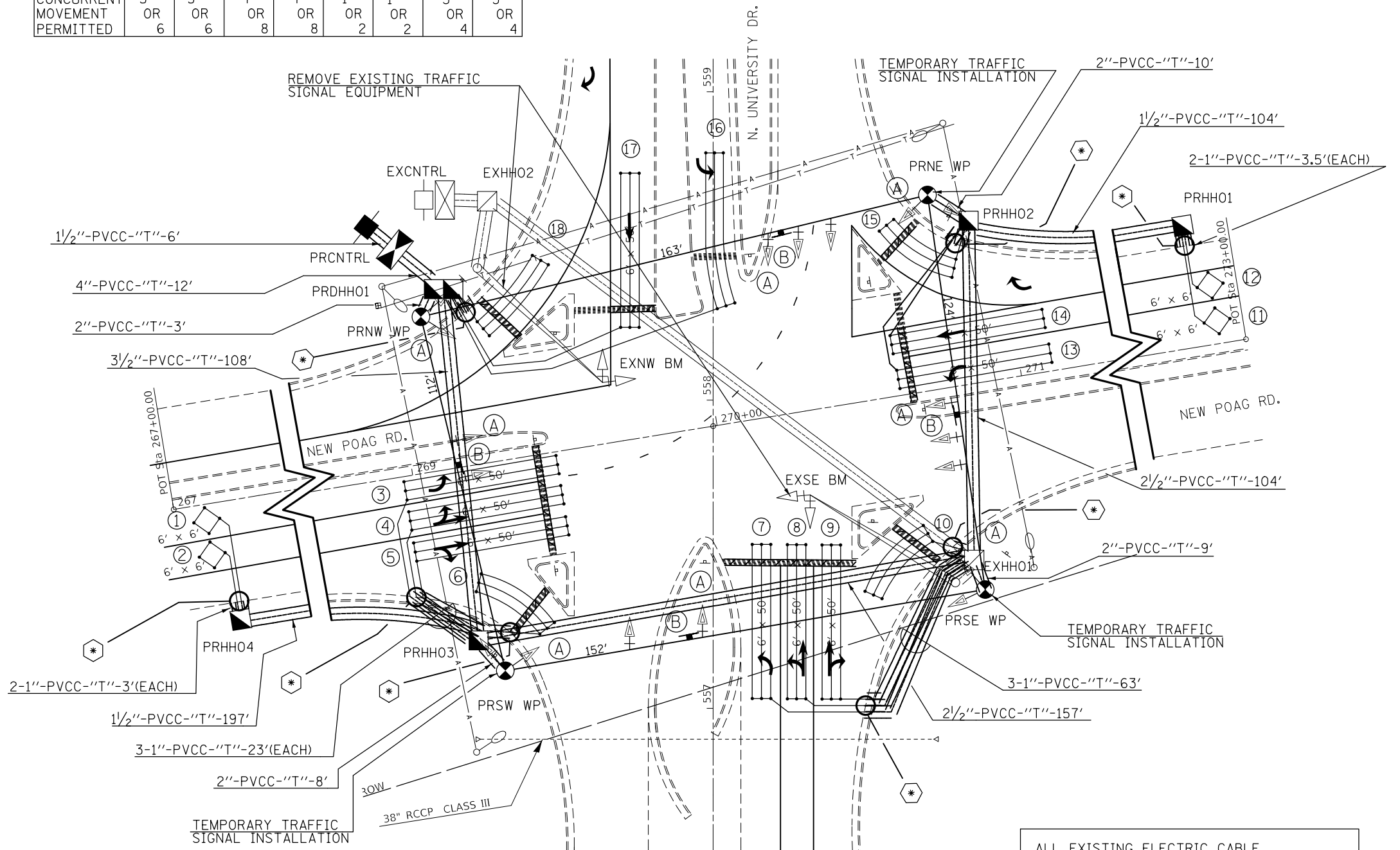
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	42
CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT	



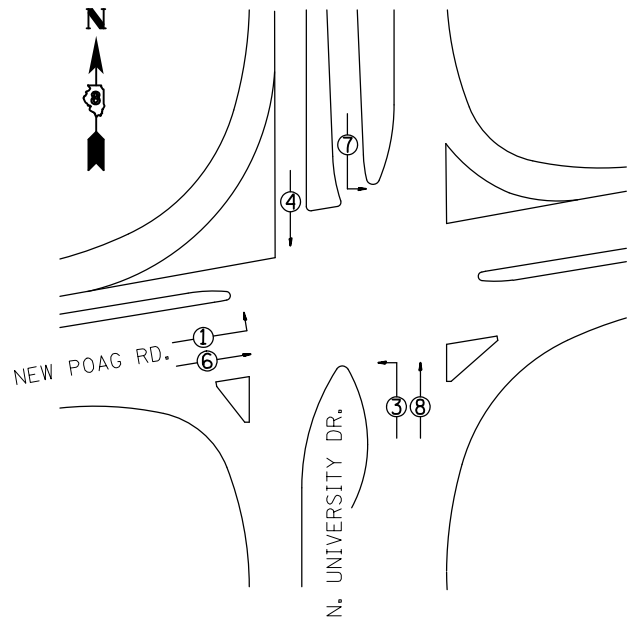
PROPOSED TRAFFIC SIGNAL FACES

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4



ALL EXISTING ELECTRIC CABLE UNDERGROUND ARE TO REMAIN IN PLACE OR STORED IN A SAFE PLACE UNTIL THE FLASHING BEACONS ARE REINSTALLED.



PHASE DESIGNATION DIAGRAM



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

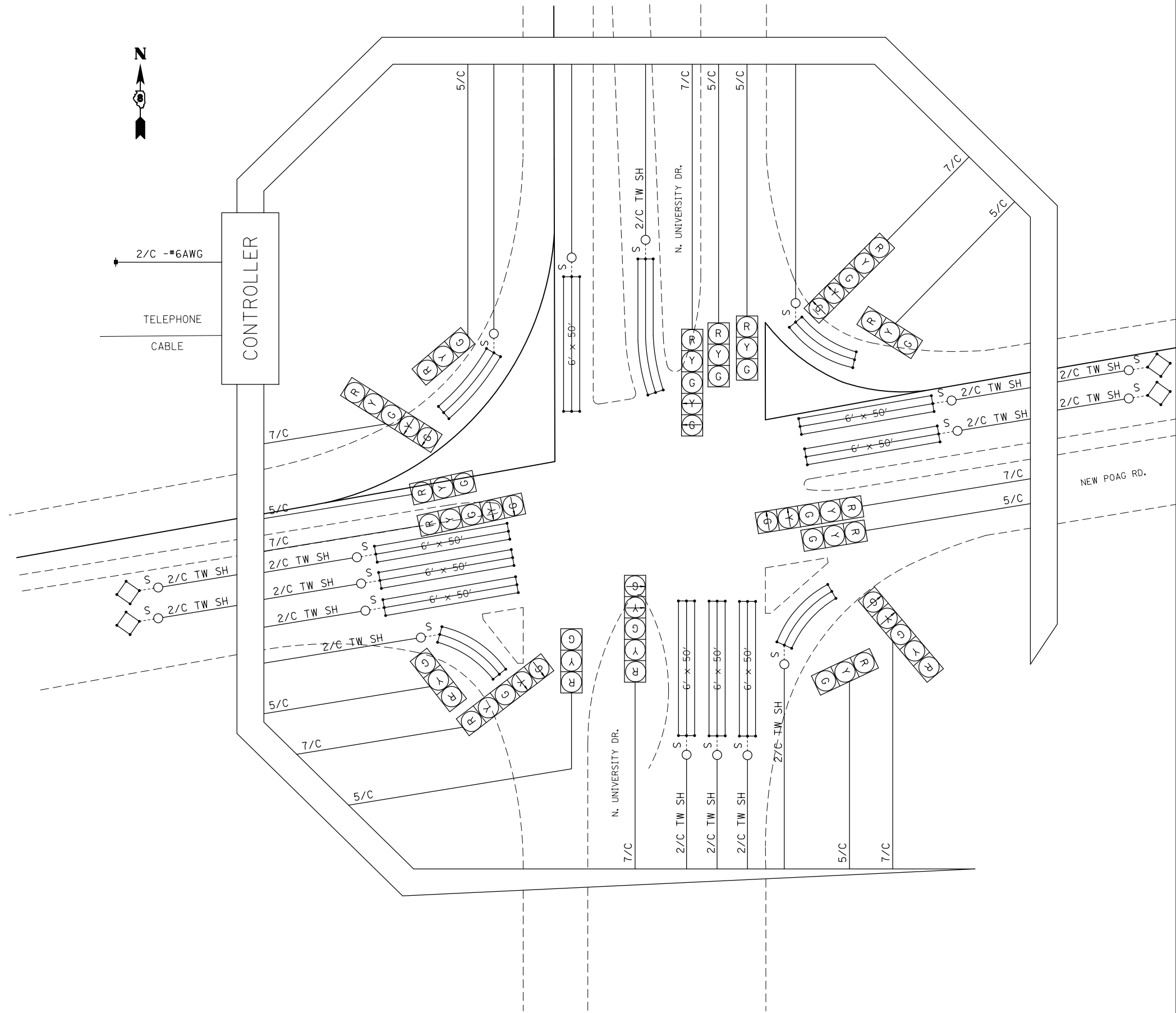
NEW POAG RD AND N. UNIVERSITY DR
TRAFFIC SIGNAL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	43
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

CABLE DIAGRAM LEGEND

- PROPOSED ELECTRIC CABLE IN CONDUIT
- - - EXISTING ELECTRIC CABLE IN CONDUIT
- S EXISTING CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- TW SH TWISTED AND SHIELDED CABLE
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
- EXISTING SERVICE INSTALLATION



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

LOOP#	PHASE # (Φ)	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO	6	6' x 6'	6	261.26	0.51
2. EB CCO	6	6' x 6'	6	258.62	0.45
3. EBLT CD	1	6' x 50'(Q)	3-6-3	793.04	1.75
4. EB THRU LT CD	6	6' x 50'(Q)	3-6-3	790.84	1.70
5. EB THRU RT CD	6	6' x 50'(Q)	3-6-3	788.64	1.65
6. EBRT CD	6	6' x 50'(Q)	3-6-3	788.20	1.64
7. NBLT CD	3	6' x 50'(Q)	3-6-3	793.04	1.75
8. NB THRU LT CD	8	6' x 50'(Q)	3-6-3	790.40	1.69
9. NB THRU RT CD	8	6' x 50'(Q)	3-6-3	787.98	1.64
10. NBRT CD	8	6' x 50'(Q)	3-6-3	787.54	1.63
11. WB CCO	2	6' x 6'	6	260.82	0.50
12. WB CCO	2	6' x 6'	6	257.96	0.43
13. WBLT CD	5	6' x 50'(Q)	3-6-3	797.00	1.84
14. WB THRU CD	2	6' x 50'(Q)	3-6-3	793.92	1.77
15. WBRT CD	2	6' x 50'(Q)	3-6-3	787.10	1.62
16. SBLT CD	7	6' x 50'(Q)	3-6-3	807.56	2.08
17. SB THRU CD	4	6' x 50'(Q)	3-6-3	799.86	1.91
18. SBRT CD	4	6' x 50'(Q)	3-6-3	787.10	1.62

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

* =SEE "DETAIL D" & "DETAIL E" DETAIL

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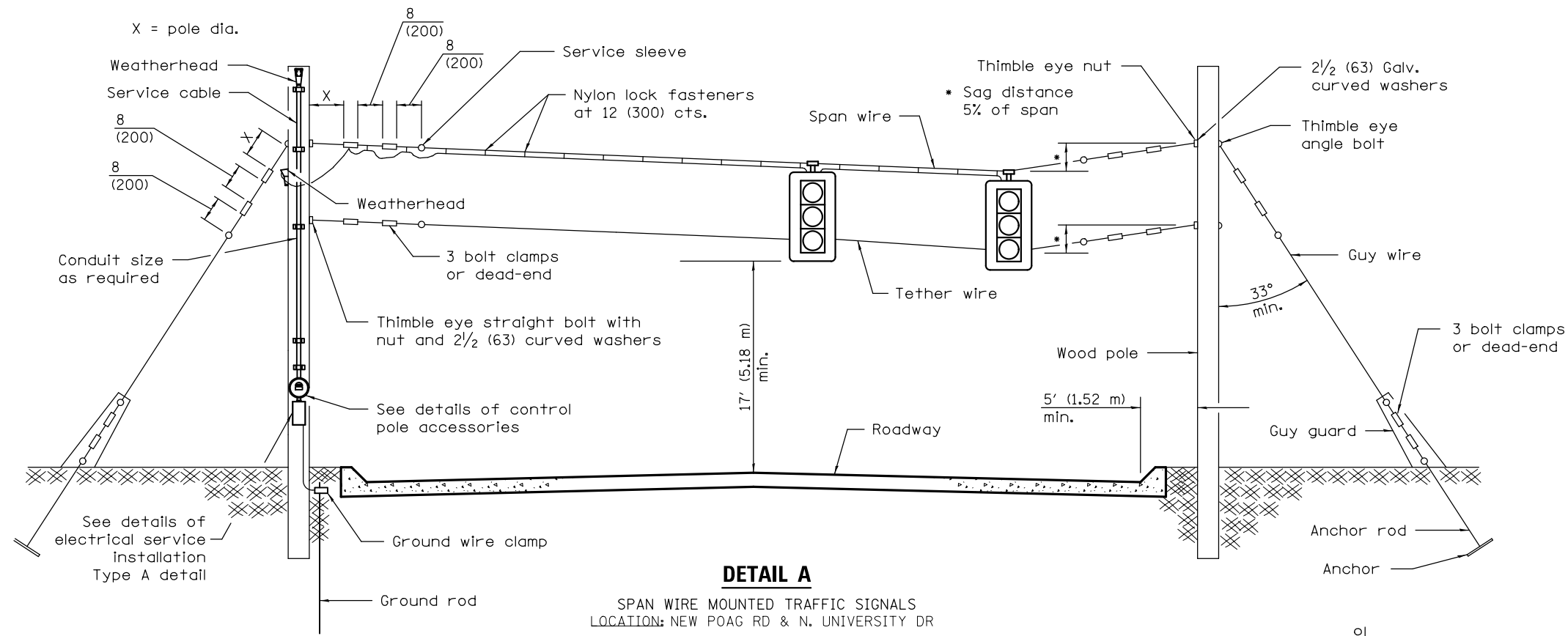
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

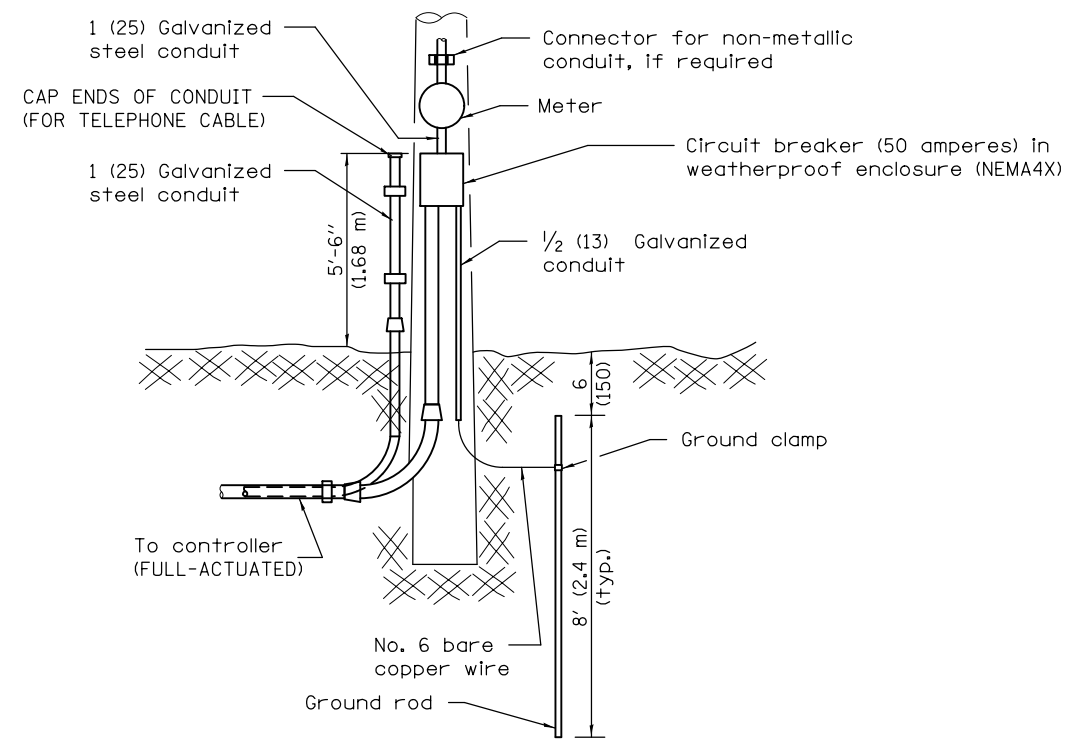
**NEW POAG RD AND N. UNIVERSITY DR
CABLE DIAGRAM**

SCALE: SHEET OF SHEETS STA. TO STA.

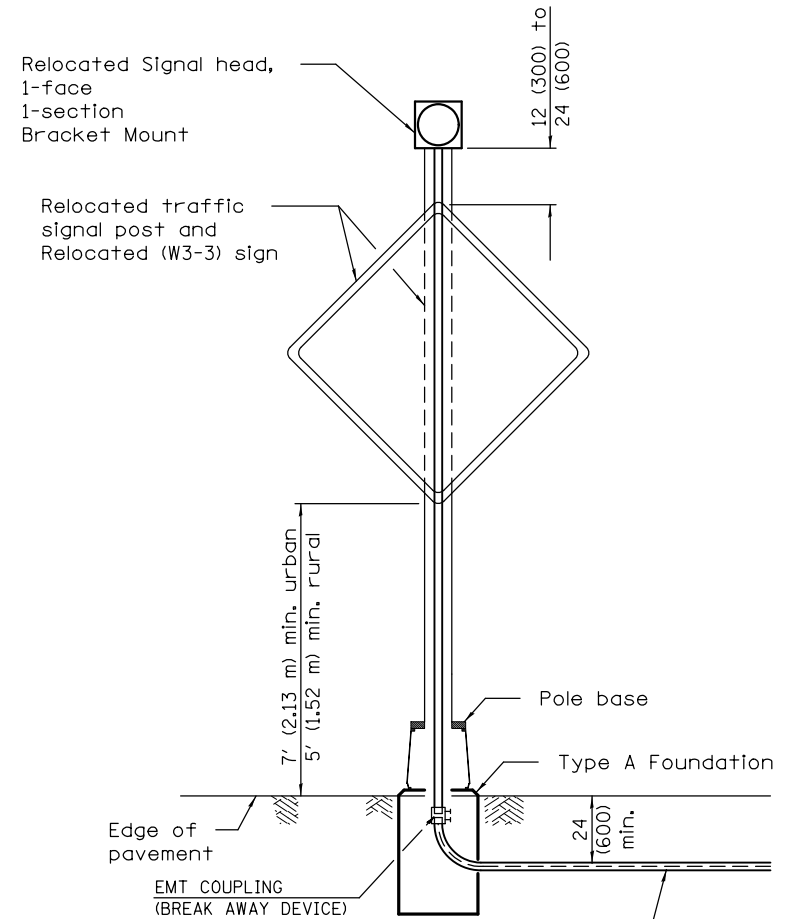
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CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



DETAIL A
 SPAN WIRE MOUNTED TRAFFIC SIGNALS
 LOCATION: NEW POAG RD & N. UNIVERSITY DR



DETAIL B
 SERVICE INSTALLATION
 TYPE A
 LOCATION: NEW POAG RD & N. UNIVERSITY DR



DETAIL C
 POST MOUNTED FLASHING BEACON
 LOCATION: IL 143 AND WANDA RD./S. MORELAND RD.

All dimensions are in inches (millimeters) unless otherwise shown.

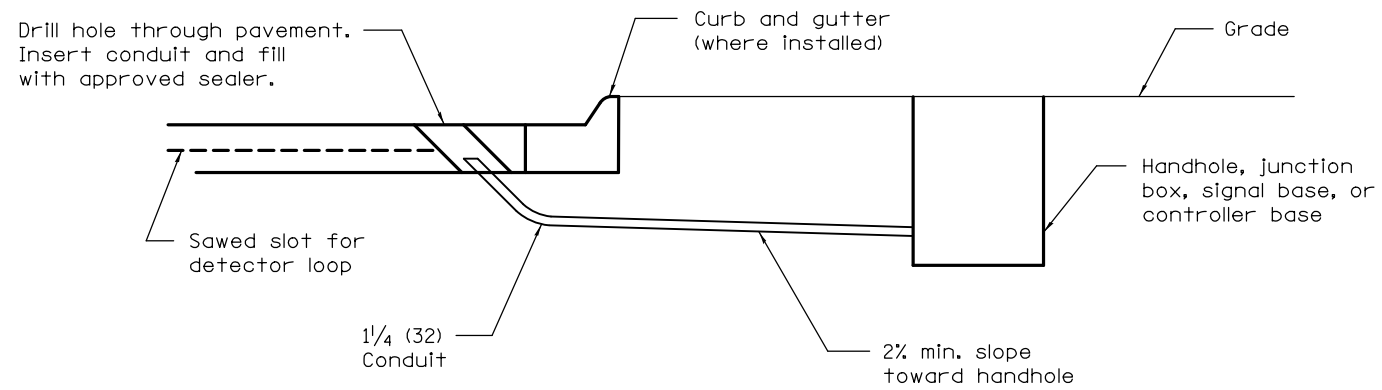
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PLOT DATE = 10/20/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET OF SHEETS	789	125B-2	MADISON	101	45
STA.	TO STA.	CONTRACT NO. 76G56				

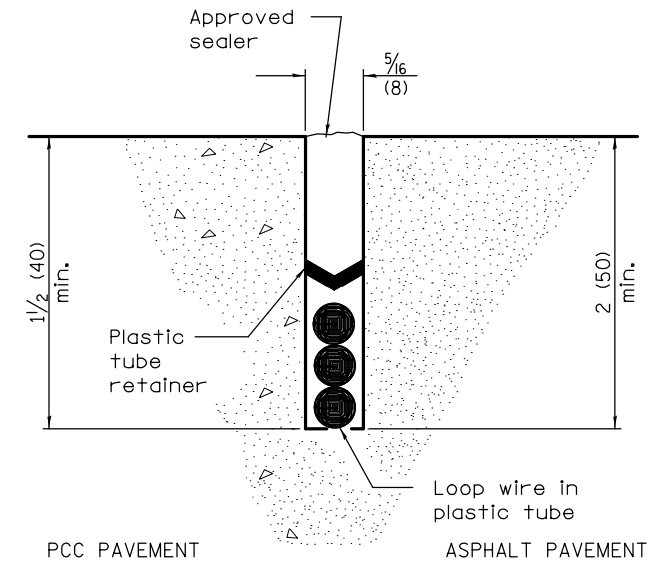
ILLINOIS	FED. AID PROJECT
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DETAIL D

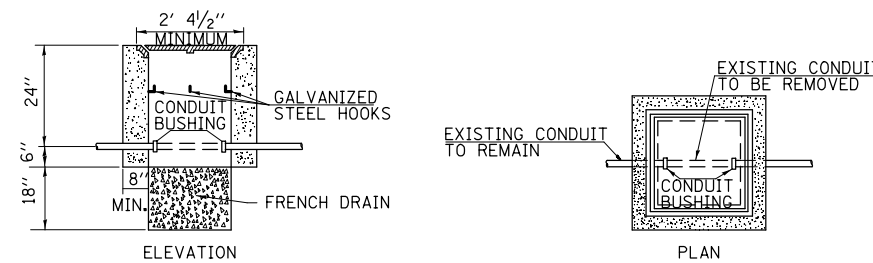
DETECTOR LOOP LEAD-IN
WIRES IN CONDUIT

LOCATION: NEW POAG RD & N. UNIVERSITY DR



DETAIL E

DETECTOR LOOP INSTALLATION
LOCATION: NEW POAG RD & N. UNIVERSITY DR



DETAIL F

HANDHOLE TO INTERCEPT EXISTING CONDUIT
LOCATION: IL 143 AND WANDA RD./S. MORELAND RD.

NOTES:

1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.
2. THE CONTRACTOR SHALL BE PAID TO LOCATE THE CONDUIT UNDER OTHER PROVISIONS OF THIS CONTRACT. SEE LOCATING UNDERGROUND CABLE IN THE STANDARD SPECIFICATIONS.

All dimensions are in inches (millimeters)
unless otherwise shown.

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USER NAME = Burnsideem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	46
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

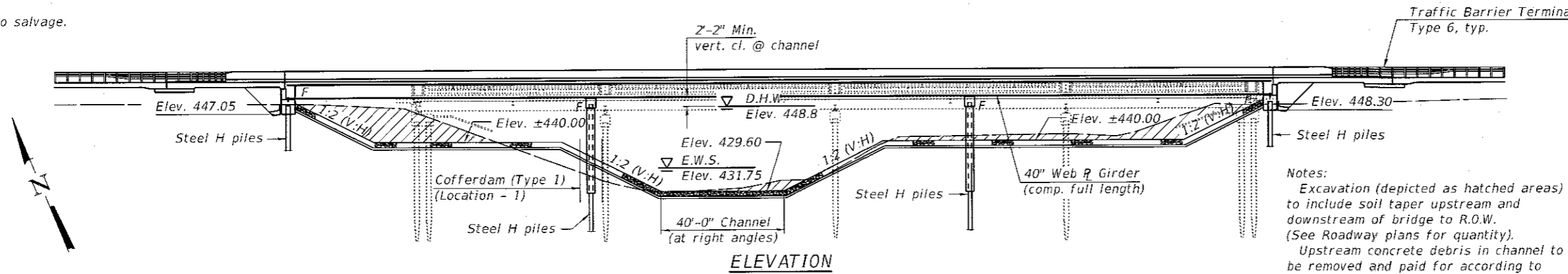
Benchmark: Chiseled "□" on North side of a light pole foundation at the SE corner of Wanda and Old Alton/Edwardsville Road; Elev. 438.84.

Existing Structure: S.N. 060-0082 built in 1936 as S.B.1 Route 159, Section 125-B-C-D at Sta. 237+75.00. The existing structure consists of four spans simply supported WF beam superstructure supported on concrete pile bent abutments and piers. Back-to-back of abutment length is 214'-2". In 1980, bridge deck repair and resurfacing with concrete overlay. The existing structure is to be removed and replaced. Traffic is to be detoured during construction.

No salvage.

INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - General Data
- 3-5 - Top of Slab Elevations
- 6 - Top of Approach Slab Elevations (West)
- 7 - Top of Approach Slab Elevations (East)
- 8-10 - Superstructure Details
- 11 - Diaphragm Details
- 12-13 - Bridge Approach Slab Details
- 14 - Structural Steel
- 15-16 - Structural Steel Details
- 17 - West Abutment
- 18 - East Abutment
- 19 - Abutment Details
- 20 - Pier 1
- 21 - Pier 2
- 22 - Pier Details
- 23 - HP Pile Details
- 24 - Concrete Parapet Slipforming Option
- 25-28 - Soil Boring Logs



DESIGN SPECIFICATIONS
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 and 2016 Interims

DESIGN STRESSES

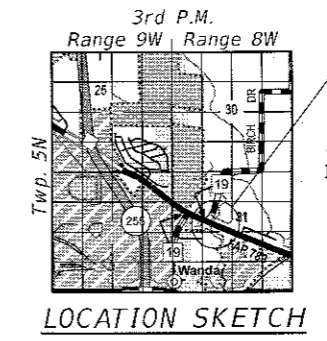
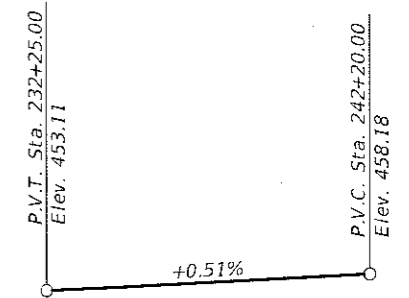
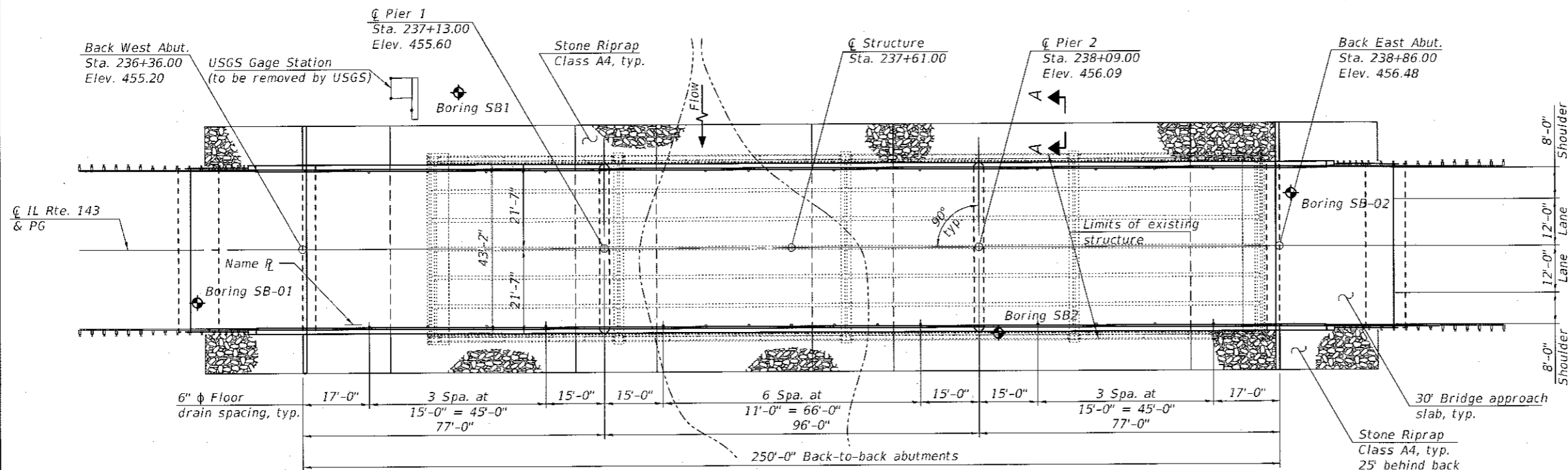
FIELD & EXISTING UNITS
 $f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (superstructure)
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (structural steel)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.22g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.49g
 Soil Site Class = D



GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 143 OVER
INDIAN CREEK
F.A.P. RTE. 789 - SEC. 125B-2
MADISON COUNTY
STATION 237+61.00
STRUCTURE NO. 060-0349



EXPIRES 11-30-2018

DESIGNED - <i>Cory D. Kallweit</i>	EXAMINED - <i>Jay F. Ashby</i>	DATE - DECEMBER 7, 2017
CHECKED - <i>HID/JOV</i>	PASSED - <i>Carl Perry</i>	REVISED -
DRAWN - IAN J. ANDREWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - <i>CRK/HID/JOV/GRA</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 28 SHEETS

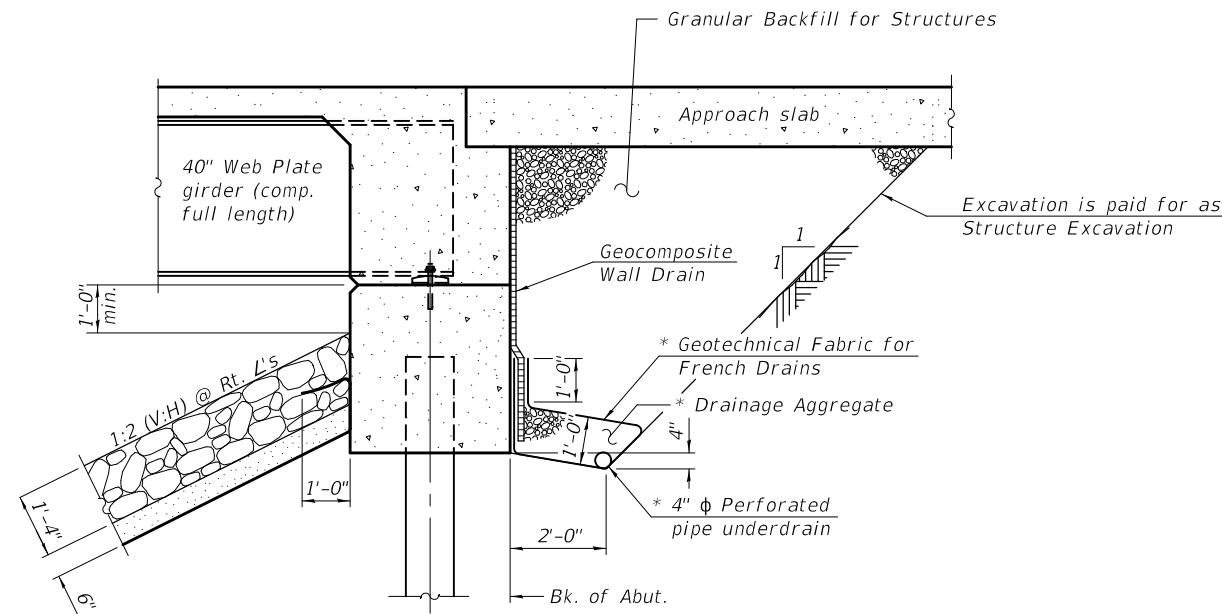
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	47
CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT	

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GENERAL NOTES

Fastener shall be ASTM A325 Type1, mechanically galvanized bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.
 Calculated weight of Structural Steel = 260320 lbs. (M270 Grade 50)
 Calculated weight of Structural Steel = 20910 lbs. (M270 Grade 36)
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 If the Contractor elects to support the bridge deck finishing machine on cantilver forming brackets at the exterior beams or girders, 4 x 4 hardwood blocking or equivalent, shall be wedged between the bottom flanges of the exterior and first interior beam at 4 ft. maximum spacing between tie and bracing locations specified in Art. 503.06(b) of the Standard Specifications.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft). Adjustment shall be made either by grinding the surface or by shimming the bearings.
 The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.
 The Inorganic Zinc Rich Primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.



SECTION THRU INTEGRAL ABUTMENT

* Included in the cost of Pipe Underdrains for Structures. (See special provisions)

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

Granular backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.

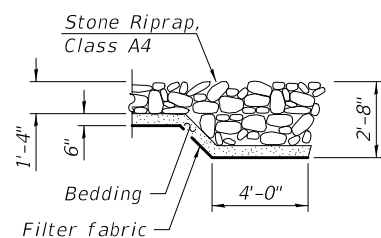
STATION 237+61.00
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RTE. 789 - SEC. 125B-2
 LOADING HL-93
 STRUCTURE NO. 060-0349

NAME PLATE
 See Std. 515001

WATERWAY INFORMATION

		Existing Overtopping Elev. 449.7 @ Sta. 236+50 Proposed Overtopping Elev. 453.0 @ Sta. 231+75							
Drainage Area = 37.4 mi. ²		Opening Sq. Ft.		Nat.	Head - Ft.		Headwater El.		
Flood	Freq. Q	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
	10	4,530	1,522	1,782	445.9	0.2	0.0	446.1	445.9
Design	50	7,910	1,584	2,413	448.8	0.6	0.2	449.4	449.0
Overtop Exist.	59	8,344	1,585	2,504	449.1	0.6	0.2	449.7	449.3
Base	100	9,660	1,605	2,719	450.1	0.6	0.2	450.7	450.3
	200	11,600	1,608	2,964	451.4	0.3	0.3	451.7	451.7
Max. Calc.	500	14,600	1,608	2,971	453.2	0.1	0.3	453.3	453.5

10 Year velocity through existing bridge = 2.6 ft/s.
 10 Year velocity through proposed bridge = 2.5 ft/s.



SECTION A-A

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				
	W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q100	446.93	408.4	416.1	447.21	5
Q200	446.93	405.4	411.2	447.21	
Design	446.93	408.4	416.1	447.21	
Check	446.93	405.4	411.2	447.21	

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	1734	1734
Filter Fabric	Sq. Yd.	-	1734	1734
Removal of Existing Structures	Each	1	-	1
Structure Excavation	Cu. Yd.	-	334	334
Cofferdam Excavation	Cu. Yd.	-	96	96
Cofferdam (Type 1) (Location - 1)	Each	-	1	1
Floor Drains	Each	30	-	30
Concrete Structures	Cu. Yd.	-	232.4	232.4
Concrete Superstructure	Cu. Yd.	371.6	-	371.6
Bridge Deck Grooving	Sq. Yd.	1304	-	1304
Protective Coat	Sq. Yd.	1610	-	1610
Concrete Superstructure (Approach Slab)	Cu. Yd.	119.1	-	119.1
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	6384	-	6384
Reinforcement Bars, Epoxy Coated	Pound	138,850	21,330	160,180
Furnishing Steel Piles HP14x89	Foot	-	635	635
Furnishing Steel Piles HP14x117	Foot	-	992	992
Driving Piles	Foot	-	1627	1627
Test Pile Steel HP14x89	Each	-	2	2
Test Pile Steel HP14x117	Each	-	2	2
Pile Shoes	Each	-	30	30
Name Plates	Each	1	-	1
Anchor Bolts, 1"	Each	-	48	48
Geocomposite Wall Drain	Sq. Yd.	-	88	88
Pipe Underdrains for Structures 4"	Foot	-	158	158
Granular Backfill for Structures	Cu. Yd.	-	159	159

MODEL: 0600349-76G56-002
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DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

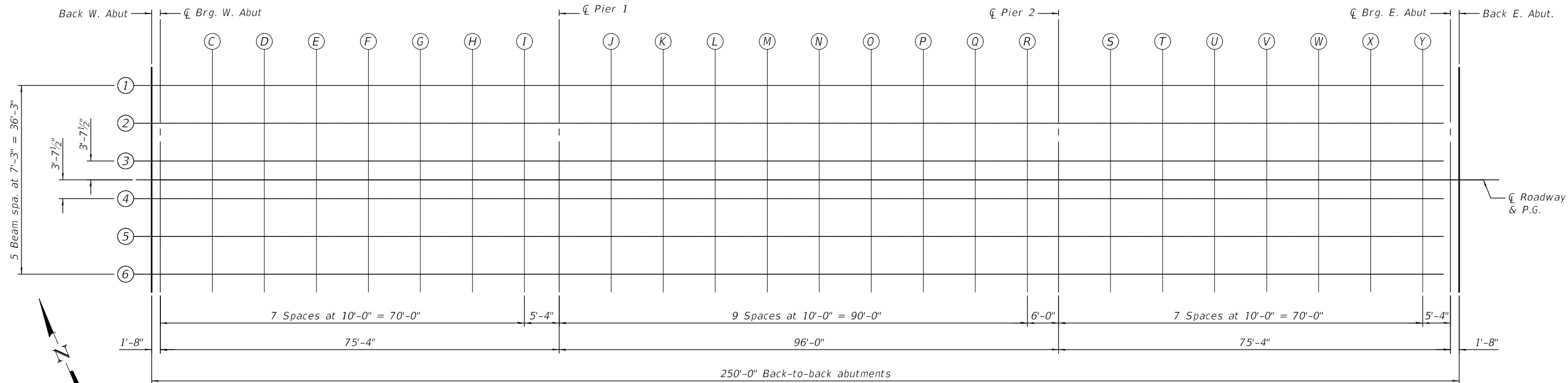
EXAMINED
 PASSED
Joanne F. Joffe
 ENGINEER OF BRIDGE DESIGN
Carl R. Rupp
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2017
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 060 - 0349
 SHEET 2 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	48
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	236+36.00	-18.13	454.90	454.90
☐ Brg. W. Abut.	236+37.67	-18.13	454.91	454.91
C	236+47.67	-18.13	454.96	454.99
D	236+57.67	-18.13	455.01	455.06
E	236+67.67	-18.13	455.06	455.12
F	236+77.67	-18.13	455.11	455.17
G	236+87.67	-18.13	455.17	455.20
H	236+97.67	-18.13	455.22	455.23
I	237+07.67	-18.13	455.27	455.27
☐ Pier 1	237+13.00	-18.13	455.29	455.29
J	237+23.00	-18.13	455.35	455.36
K	237+33.00	-18.13	455.40	455.43
L	237+43.00	-18.13	455.45	455.50
M	237+53.00	-18.13	455.50	455.57
N	237+63.00	-18.13	455.55	455.63
O	237+73.00	-18.13	455.60	455.66
P	237+83.00	-18.13	455.65	455.70
Q	237+93.00	-18.13	455.70	455.73
R	238+03.00	-18.13	455.75	455.76
☐ Pier 2	238+09.00	-18.13	455.78	455.78
S	238+19.00	-18.13	455.83	455.85
T	238+29.00	-18.13	455.89	455.91
U	238+39.00	-18.13	455.94	455.98
V	238+49.00	-18.13	455.99	456.04
W	238+59.00	-18.13	456.04	456.09
X	238+69.00	-18.13	456.09	456.13
Y	238+79.00	-18.13	456.14	456.15
☐ Brg. E. Abut.	238+84.33	-18.13	456.17	456.17
Back E. Abut.	238+86.00	-18.13	456.18	456.18

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	236+36.00	-10.88	455.04	455.04
☐ Brg. W. Abut.	236+37.67	-10.88	455.05	455.05
C	236+47.67	-10.88	455.10	455.13
D	236+57.67	-10.88	455.15	455.20
E	236+67.67	-10.88	455.20	455.25
F	236+77.67	-10.88	455.25	455.30
G	236+87.67	-10.88	455.30	455.34
H	236+97.67	-10.88	455.36	455.37
I	237+07.67	-10.88	455.41	455.41
☐ Pier 1	237+13.00	-10.88	455.43	455.43
J	237+23.00	-10.88	455.48	455.50
K	237+33.00	-10.88	455.54	455.57
L	237+43.00	-10.88	455.59	455.64
M	237+53.00	-10.88	455.64	455.70
N	237+63.00	-10.88	455.69	455.76
O	237+73.00	-10.88	455.74	455.80
P	237+83.00	-10.88	455.79	455.84
Q	237+93.00	-10.88	455.84	455.87
R	238+03.00	-10.88	455.89	455.90
☐ Pier 2	238+09.00	-10.88	455.92	455.92
S	238+19.00	-10.88	455.97	455.99
T	238+29.00	-10.88	456.02	456.05
U	238+39.00	-10.88	456.08	456.12
V	238+49.00	-10.88	456.13	456.18
W	238+59.00	-10.88	456.18	456.23
X	238+69.00	-10.88	456.23	456.27
Y	238+79.00	-10.88	456.28	456.29
☐ Brg. E. Abut.	238+84.33	-10.88	456.31	456.31
Back E. Abut.	238+86.00	-10.88	456.32	456.32

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	236+36.00	-3.63	455.15	455.15
☐ Brg. W. Abut.	236+37.67	-3.63	455.16	455.16
C	236+47.67	-3.63	455.21	455.23
D	236+57.67	-3.63	455.26	455.31
E	236+67.67	-3.63	455.31	455.36
F	236+77.67	-3.63	455.36	455.41
G	236+87.67	-3.63	455.41	455.45
H	236+97.67	-3.63	455.46	455.48
I	237+07.67	-3.63	455.52	455.52
☐ Pier 1	237+13.00	-3.63	455.54	455.54
J	237+23.00	-3.63	455.59	455.61
K	237+33.00	-3.63	455.64	455.68
L	237+43.00	-3.63	455.70	455.75
M	237+53.00	-3.63	455.75	455.81
N	237+63.00	-3.63	455.80	455.87
O	237+73.00	-3.63	455.85	455.91
P	237+83.00	-3.63	455.90	455.95
Q	237+93.00	-3.63	455.95	455.98
R	238+03.00	-3.63	456.00	456.01
☐ Pier 2	238+09.00	-3.63	456.03	456.03
S	238+19.00	-3.63	456.08	456.09
T	238+29.00	-3.63	456.13	456.16
U	238+39.00	-3.63	456.18	456.23
V	238+49.00	-3.63	456.24	456.29
W	238+59.00	-3.63	456.29	456.34
X	238+69.00	-3.63	456.34	456.38
Y	238+79.00	-3.63	456.39	456.40
☐ Brg. E. Abut.	238+84.33	-3.63	456.42	456.42
Back E. Abut.	238+86.00	-3.63	456.42	456.42

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DESIGNED - CORY D. KOLTVEIT	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - DECEMBER 7, 2017
CHECKED - H.I.D. / J.O.V.	PASSED - <i>Carl [Signature]</i>	REVISED -
DRAWN - IAN J. ANDREWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060 - 0349**

SHEET 3 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	49
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

MODEL: 0600349-76G56-004
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CL ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	236+36.00	0.00	455.20	455.20
CL Brg. W. Abut.	236+37.67	0.00	455.21	455.21
C	236+47.67	0.00	455.26	455.29
D	236+57.67	0.00	455.31	455.36
E	236+67.67	0.00	455.37	455.42
F	236+77.67	0.00	455.42	455.47
G	236+87.67	0.00	455.47	455.50
H	236+97.67	0.00	455.52	455.54
I	237+07.67	0.00	455.57	455.58
CL Pier 1	237+13.00	0.00	455.60	455.60
J	237+23.00	0.00	455.65	455.67
K	237+33.00	0.00	455.70	455.74
L	237+43.00	0.00	455.75	455.80
M	237+53.00	0.00	455.80	455.87
N	237+63.00	0.00	455.85	455.93
O	237+73.00	0.00	455.90	455.96
P	237+83.00	0.00	455.95	456.00
Q	237+93.00	0.00	456.00	456.03
R	238+03.00	0.00	456.06	456.07
CL Pier 2	238+09.00	0.00	456.09	456.09
S	238+19.00	0.00	456.14	456.15
T	238+29.00	0.00	456.19	456.21
U	238+39.00	0.00	456.24	456.28
V	238+49.00	0.00	456.29	456.34
W	238+59.00	0.00	456.34	456.39
X	238+69.00	0.00	456.39	456.43
Y	238+79.00	0.00	456.44	456.46
CL Brg. E. Abut.	238+84.33	0.00	456.47	456.47
Back E. Abut.	238+86.00	0.00	456.48	456.48

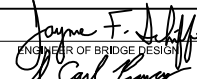

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	236+36.00	3.63	455.15	455.15
CL Brg. W. Abut.	236+37.67	3.63	455.16	455.16
C	236+47.67	3.63	455.21	455.23
D	236+57.67	3.63	455.26	455.31
E	236+67.67	3.63	455.31	455.36
F	236+77.67	3.63	455.36	455.41
G	236+87.67	3.63	455.41	455.45
H	236+97.67	3.63	455.46	455.48
I	237+07.67	3.63	455.52	455.52
CL Pier 1	237+13.00	3.63	455.54	455.54
J	237+23.00	3.63	455.59	455.61
K	237+33.00	3.63	455.64	455.68
L	237+43.00	3.63	455.70	455.75
M	237+53.00	3.63	455.75	455.81
N	237+63.00	3.63	455.80	455.87
O	237+73.00	3.63	455.85	455.91
P	237+83.00	3.63	455.90	455.95
Q	237+93.00	3.63	455.95	455.98
R	238+03.00	3.63	456.00	456.01
CL Pier 2	238+09.00	3.63	456.03	456.03
S	238+19.00	3.63	456.08	456.09
T	238+29.00	3.63	456.13	456.16
U	238+39.00	3.63	456.18	456.23
V	238+49.00	3.63	456.24	456.29
W	238+59.00	3.63	456.29	456.34
X	238+69.00	3.63	456.34	456.38
Y	238+79.00	3.63	456.39	456.40
CL Brg. E. Abut.	238+84.33	3.63	456.42	456.42
Back E. Abut.	238+86.00	3.63	456.42	456.42

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	236+36.00	10.88	455.04	455.04
CL Brg. W. Abut.	236+37.67	10.88	455.05	455.05
C	236+47.67	10.88	455.10	455.13
D	236+57.67	10.88	455.15	455.20
E	236+67.67	10.88	455.20	455.25
F	236+77.67	10.88	455.25	455.30
G	236+87.67	10.88	455.30	455.34
H	236+97.67	10.88	455.36	455.37
I	237+07.67	10.88	455.41	455.41
CL Pier 1	237+13.00	10.88	455.43	455.43
J	237+23.00	10.88	455.48	455.50
K	237+33.00	10.88	455.54	455.57
L	237+43.00	10.88	455.59	455.64
M	237+53.00	10.88	455.64	455.70
N	237+63.00	10.88	455.69	455.76
O	237+73.00	10.88	455.74	455.80
P	237+83.00	10.88	455.79	455.84
Q	237+93.00	10.88	455.84	455.87
R	238+03.00	10.88	455.89	455.90
CL Pier 2	238+09.00	10.88	455.92	455.92
S	238+19.00	10.88	455.97	455.99
T	238+29.00	10.88	456.02	456.05
U	238+39.00	10.88	456.08	456.12
V	238+49.00	10.88	456.13	456.18
W	238+59.00	10.88	456.18	456.23
X	238+69.00	10.88	456.23	456.27
Y	238+79.00	10.88	456.28	456.29
CL Brg. E. Abut.	238+84.33	10.88	456.31	456.31
Back E. Abut.	238+86.00	10.88	456.32	456.32

DESIGNED - CORY D. KOLTVEIT
 CHECKED - H.I.D. / J.O.V.
 DRAWN - IAN J. ANDREWS
 CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED

 ENGINEER OF BRIDGE DESIGN
 PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2017
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 060 - 0349

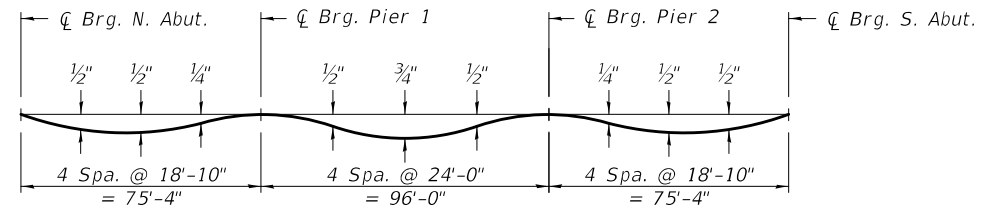
SHEET 4 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	50
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

MODEL: 0600349-76G56-005
 FILE NAME: p:\w\1084848\INTEG\Illinois\DOT Offices\Bureau of Bridges and Structures\Projects\0600349-76G56.dgn

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	236+36.00	18.13	454.90	454.90
C̄ Brg. W. Abut.	236+37.67	18.13	454.91	454.91
C	236+47.67	18.13	454.96	454.99
D	236+57.67	18.13	455.01	455.06
E	236+67.67	18.13	455.06	455.12
F	236+77.67	18.13	455.11	455.17
G	236+87.67	18.13	455.17	455.20
H	236+97.67	18.13	455.22	455.23
I	237+07.67	18.13	455.27	455.27
C̄ Pier 1	237+13.00	18.13	455.29	455.29
J	237+23.00	18.13	455.35	455.36
K	237+33.00	18.13	455.40	455.43
L	237+43.00	18.13	455.45	455.50
M	237+53.00	18.13	455.50	455.57
N	237+63.00	18.13	455.55	455.63
O	237+73.00	18.13	455.60	455.66
P	237+83.00	18.13	455.65	455.70
Q	237+93.00	18.13	455.70	455.73
R	238+03.00	18.13	455.75	455.76
C̄ Pier 2	238+09.00	18.13	455.78	455.78
S	238+19.00	18.13	455.83	455.85
T	238+29.00	18.13	455.89	455.91
U	238+39.00	18.13	455.94	455.98
V	238+49.00	18.13	455.99	456.04
W	238+59.00	18.13	456.04	456.09
X	238+69.00	18.13	456.09	456.13
Y	238+79.00	18.13	456.14	456.15
C̄ Brg. E. Abut.	238+84.33	18.13	456.17	456.17
Back E. Abut.	238+86.00	18.13	456.18	456.18

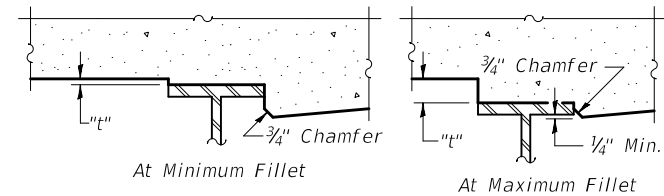


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on this sheet and sheets 3 and 4 of 28, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED	<i>Joanne F. J. [Signature]</i>	DATE -	DECEMBER 7, 2017
PASSED	<i>Carl [Signature]</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 060 - 0349**

SHEET 5 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	51
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	236+07.00	-20.00	454.72
A	236+17.00	-20.00	454.77
B	236+27.00	-20.00	454.82
E. End of W. Appr. Slab	236+37.00	-20.00	454.87

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	236+07.00	-12.00	454.88
A	236+17.00	-12.00	454.93
B	236+27.00	-12.00	454.98
E. End of W. Appr. Slab	236+37.00	-12.00	455.03

☉ ROADWAY & P.G.

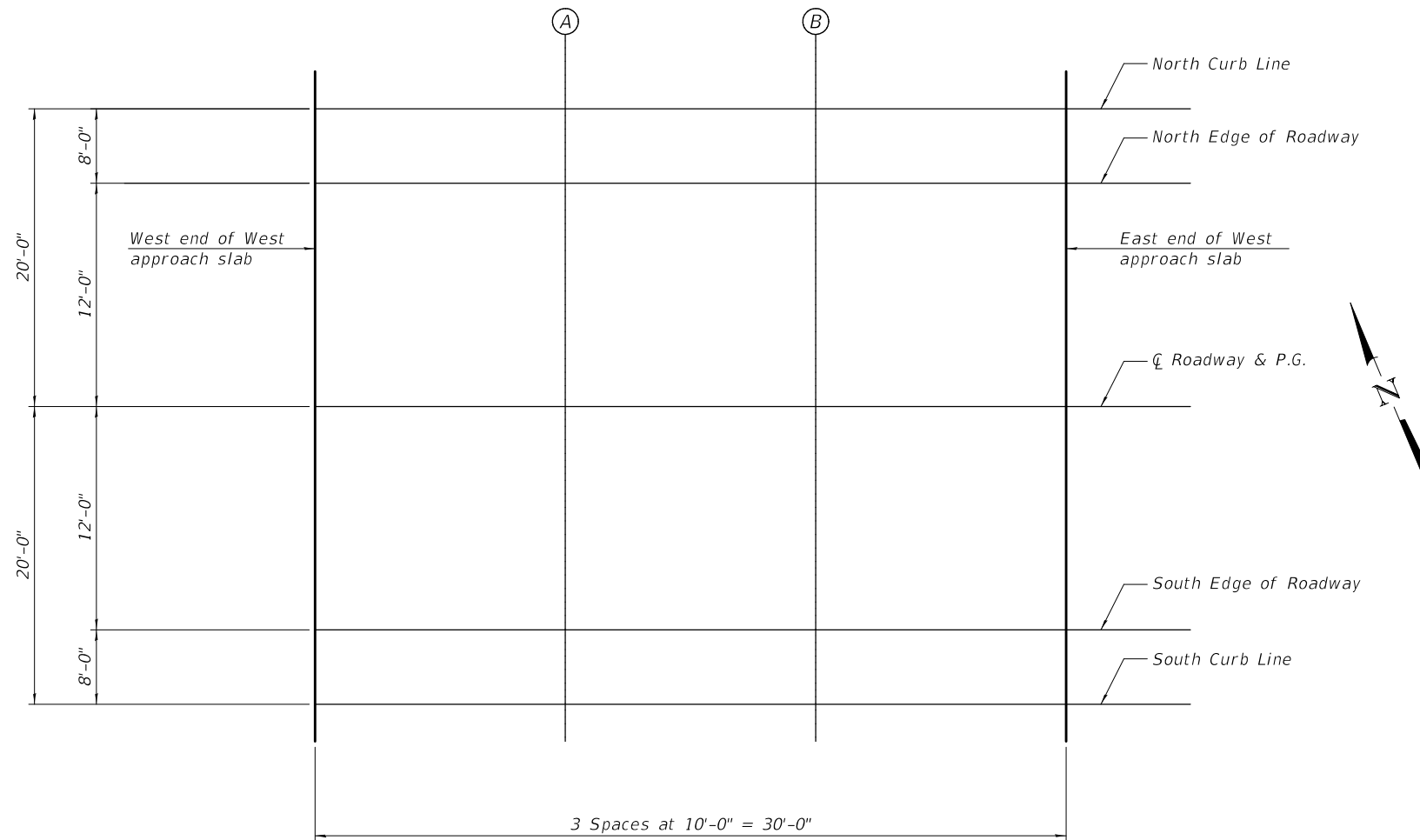
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	236+07.00	0.00	455.06
A	236+17.00	0.00	455.11
B	236+27.00	0.00	455.16
E. End of W. Appr. Slab	236+37.00	0.00	455.21

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	236+07.00	12.00	454.88
A	236+17.00	12.00	454.93
B	236+27.00	12.00	454.98
E. End of W. Appr. Slab	236+37.00	12.00	455.03

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	236+07.00	20.00	454.72
A	236+17.00	20.00	454.77
B	236+27.00	20.00	454.82
E. End of W. Appr. Slab	236+37.00	20.00	454.87



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DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

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

DATE -	DECEMBER 7, 2017
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060 - 0349**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	52
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	238+85.00	-20.00	456.14
Z	238+95.00	-20.00	456.19
A1	239+05.00	-20.00	456.24
E. End of E. Appr. Slab	239+15.00	-20.00	456.29

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	238+85.00	-12.00	456.30
Z	238+95.00	-12.00	456.35
A1	239+05.00	-12.00	456.40
E. End of E. Appr. Slab	239+15.00	-12.00	456.45

☉ ROADWAY & P.G.

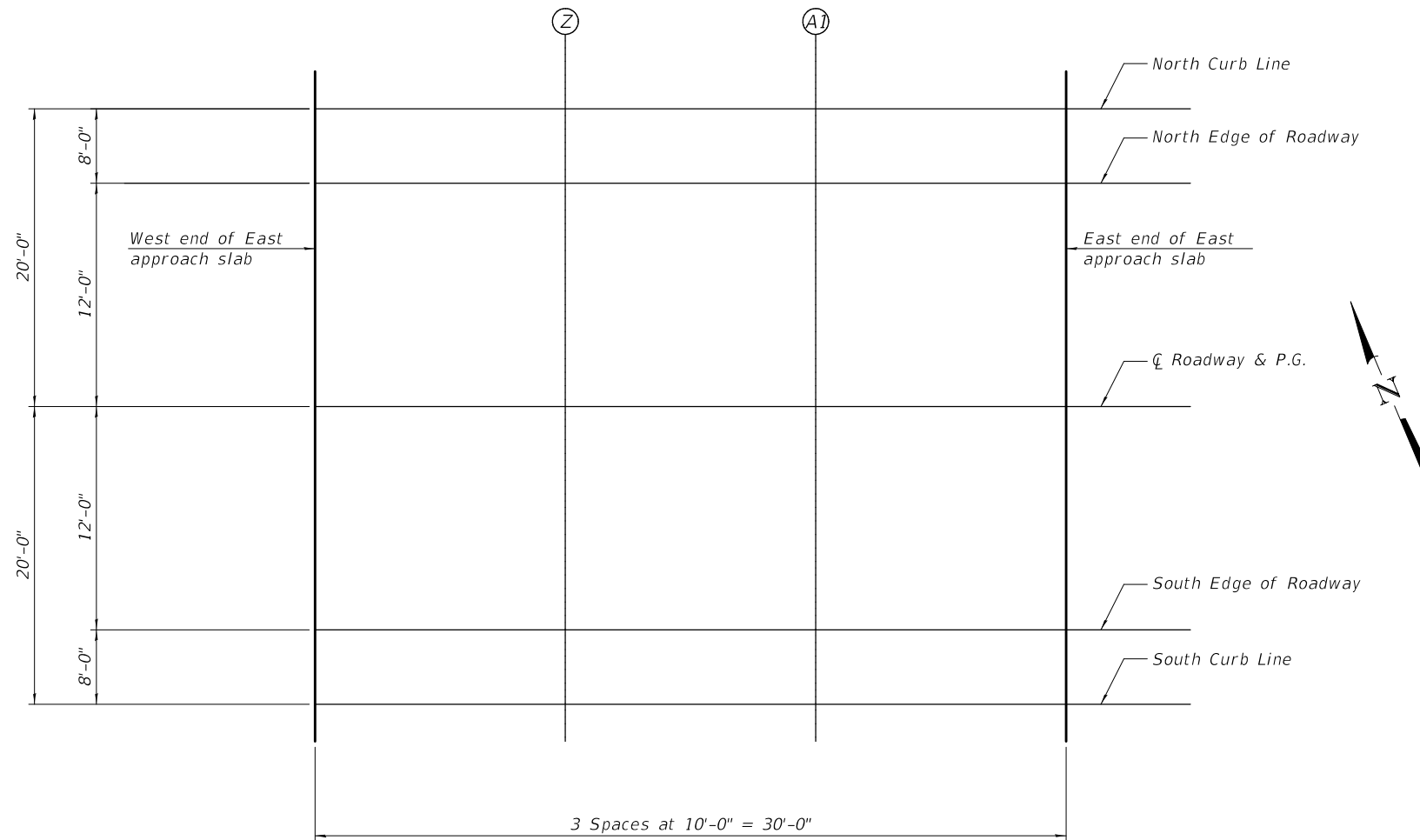
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	238+85.00	0.00	456.48
Z	238+95.00	0.00	456.53
A1	239+05.00	0.00	456.58
E. End of E. Appr. Slab	239+15.00	0.00	456.63

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	238+85.00	12.00	456.30
Z	238+95.00	12.00	456.35
A1	239+05.00	12.00	456.40
E. End of E. Appr. Slab	239+15.00	12.00	456.45

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	238+85.00	20.00	456.14
Z	238+95.00	20.00	456.19
A1	239+05.00	20.00	456.24
E. End of E. Appr. Slab	239+15.00	20.00	456.29



MODEL: 0600349-76G56-007
 FILE NAME: p:\w\1084848\INTEG\Illinois.gov\PWIDOT\Documents\Projects\0600349\CADD Plans\0600349-76G56.dgn

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

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

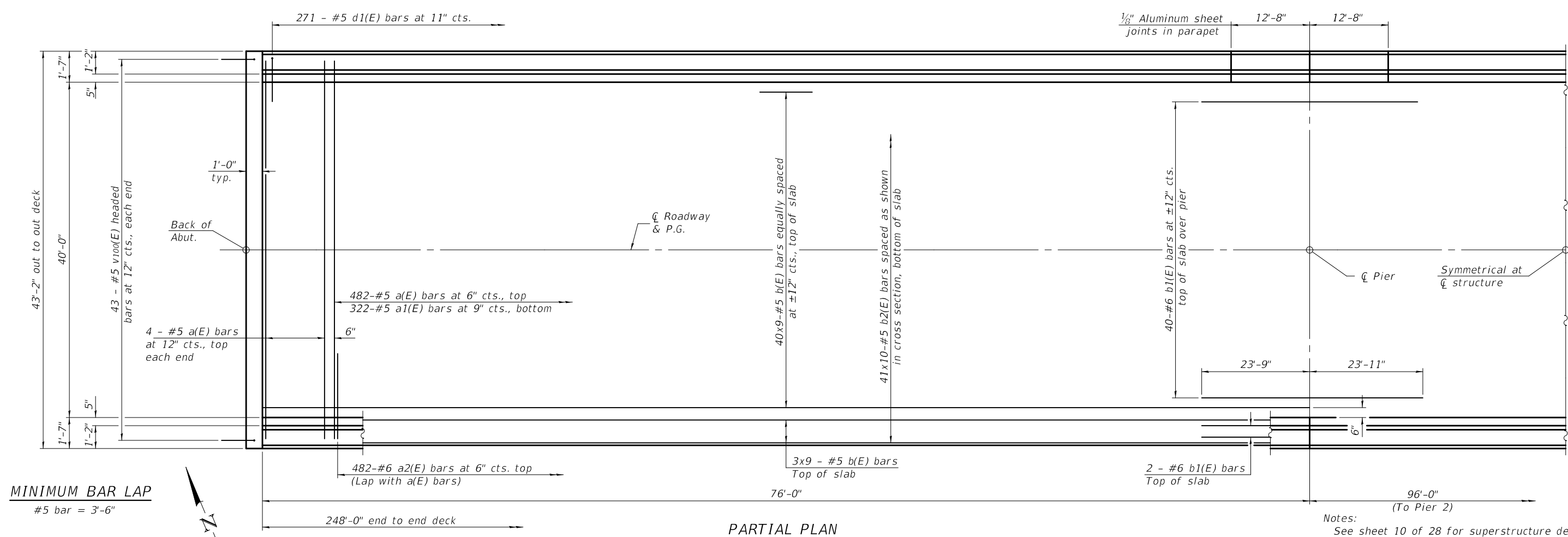
DATE -	DECEMBER 7, 2017
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060 - 0349

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	53
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

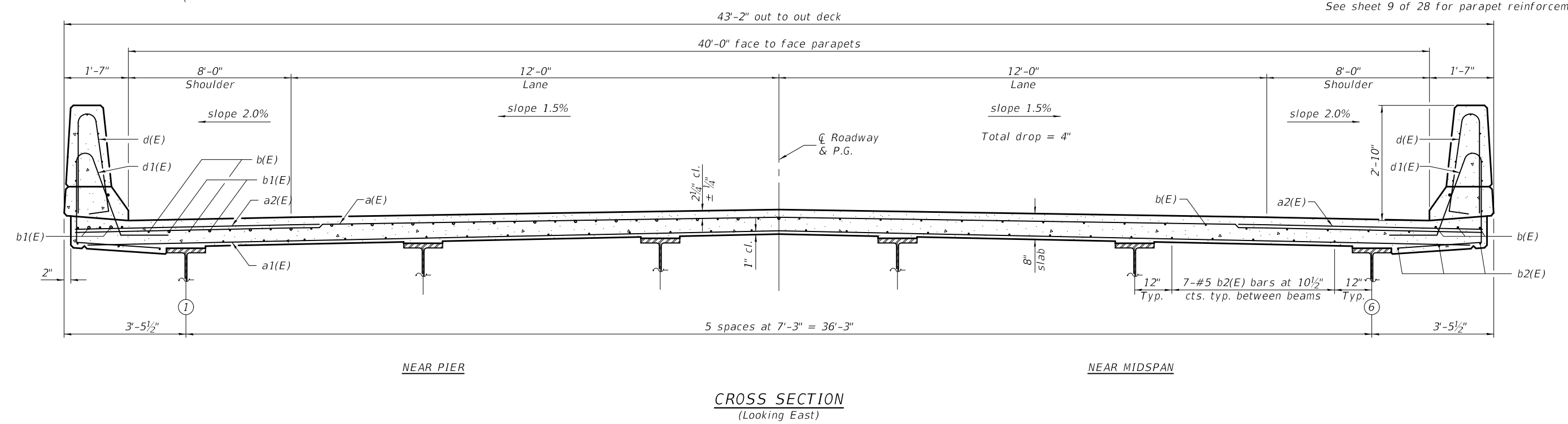
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MINIMUM BAR LAP
 #5 bar = 3'-6"

PARTIAL PLAN

Notes:
 See sheet 10 of 28 for superstructure details and Bill of Material.
 Bars indicated thus 40 x 9-#5 etc. indicates 40 lines of bars with 9 lengths per line.
 See sheet 9 of 28 for parapet reinforcement.



CROSS SECTION
 (Looking East)

SI-SB-2-0 2-17-2017

DESIGNED - CORY D. KOLTVEIT	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - DECEMBER 7, 2017
CHECKED - H.I.D. / J.O.V.	PASSED - <i>Carl [Signature]</i>	REVISER -
DRAWN - IAN J. ANDREWS	ENGINEER OF BRIDGE DESIGN	REVISER -
CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.	ENGINEER OF BRIDGES AND STRUCTURES	

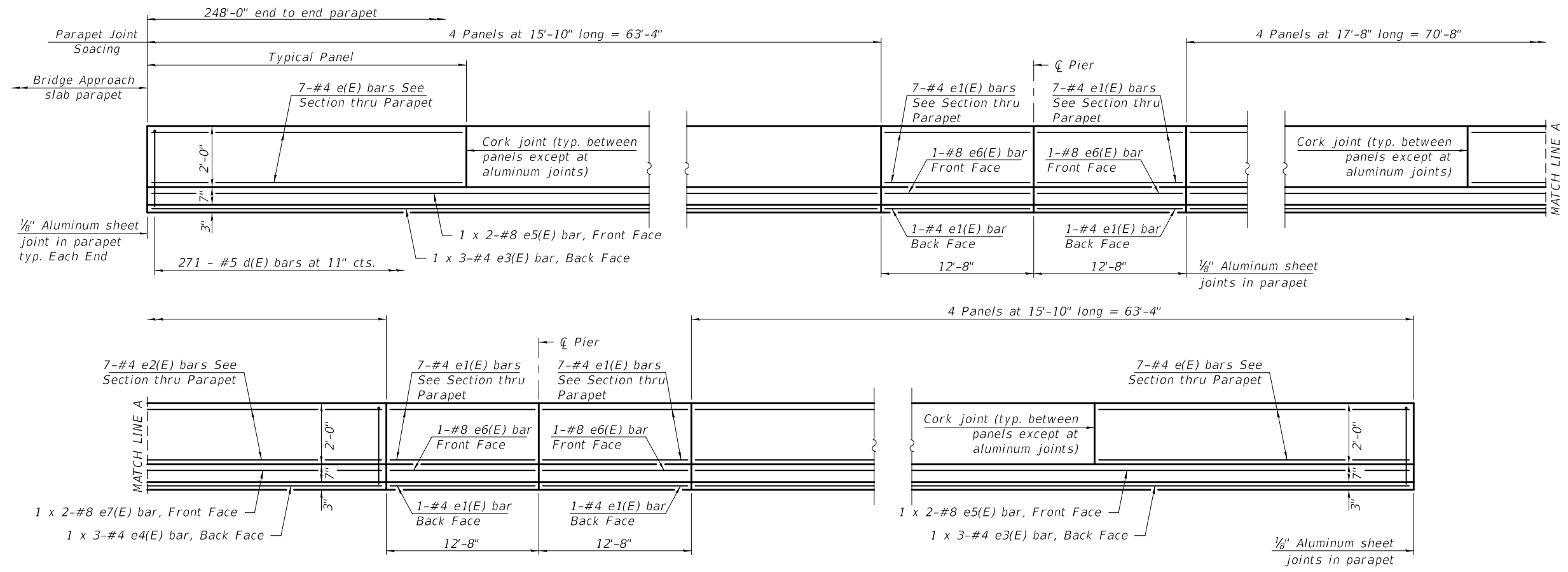
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 060 - 0349

SHEET 8 OF 28 SHEETS

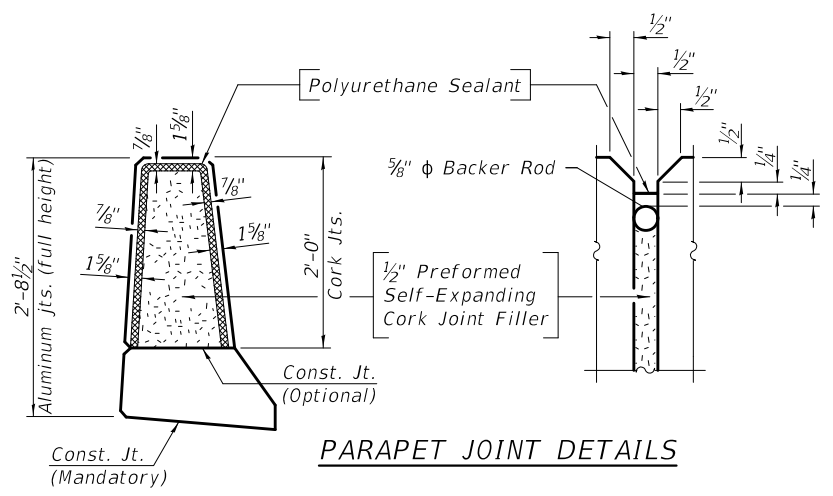
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789	125B-2	MADISON	101	54
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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MINIMUM BAR LAP
 (Parapet)
 #4 bar = 2'-5"
 #8 bar = 5'-11"

INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAILS

Notes:
 See sheet 10 of 28 for Bill of Material.
 Bars indicated thus 1x3-#4 etc. indicates 1 line of bars with 3 lengths per line.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

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DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED
 PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 7, 2017
REVISED -	
REVISED -	

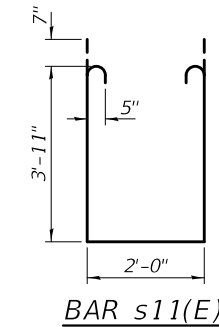
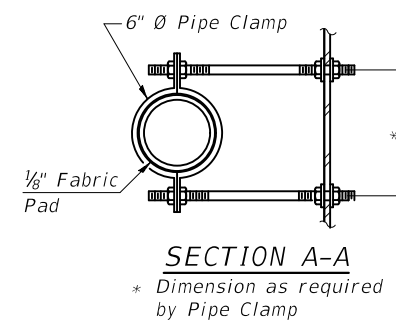
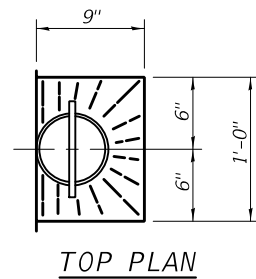
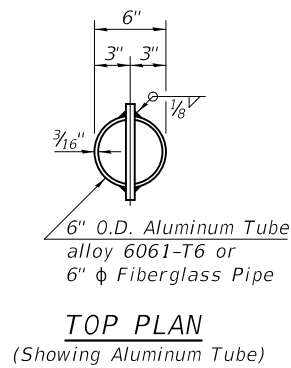
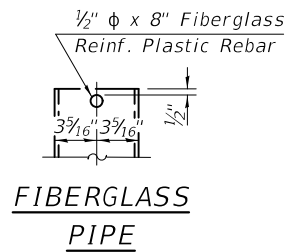
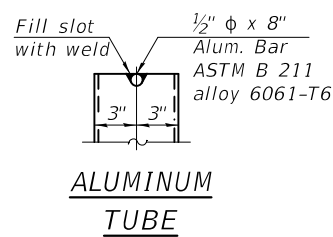
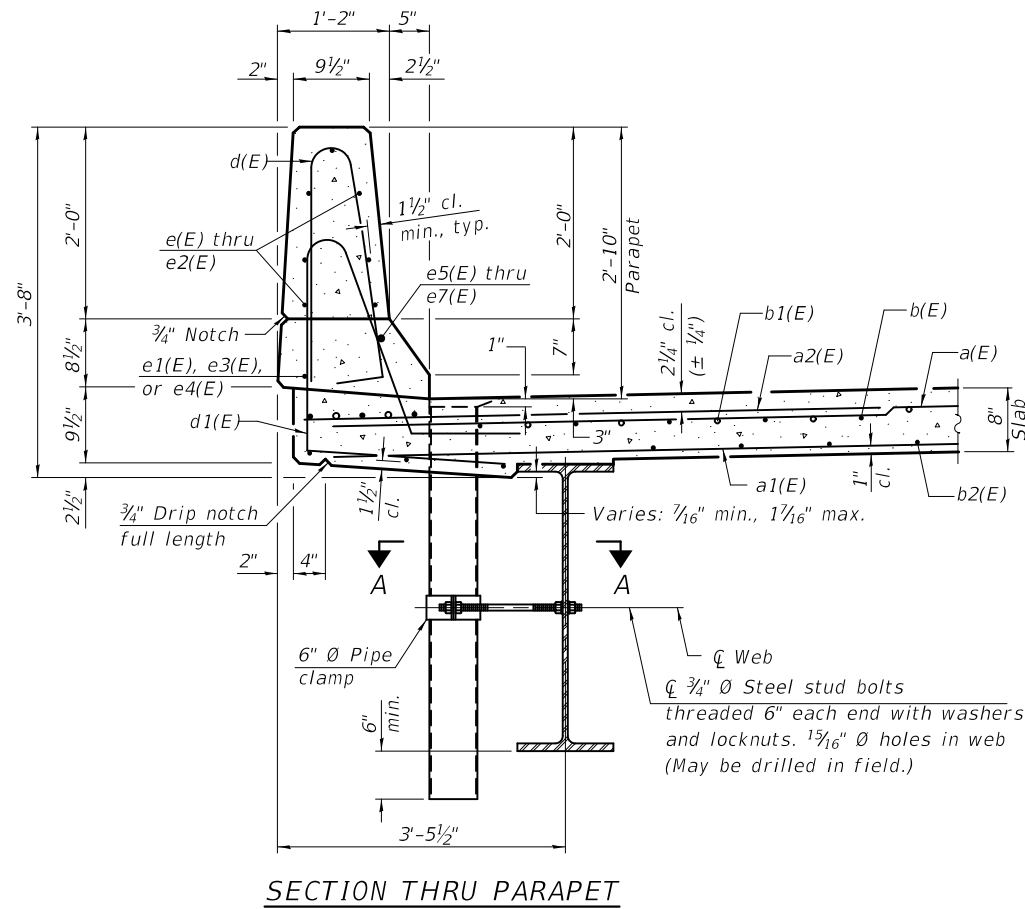
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060 - 0349

SHEET 9 OF 28 SHEETS

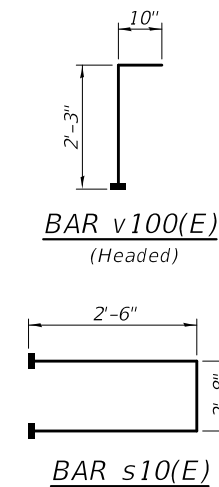
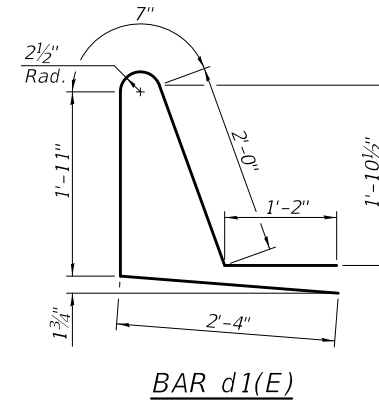
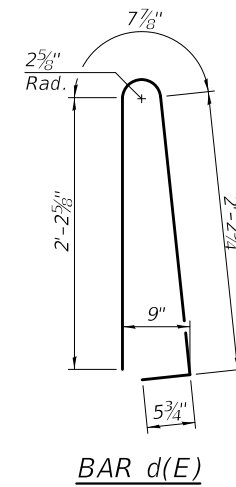
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	55
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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 FILE NAME: pw:\VIL084EBID\INTEG.sil\mids.gov\PWIDOT\Documents\Bureau of Bridges and Structures\Projects\0600349\CADD Plans\0600349-76G56.dgn



Notes:

- Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
- The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings' Spec. SSPC-SP1 prior to painting.
- The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
- The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
- Drains shall be placed clear of all diaphragms.
- Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	490	#5	42'-6"	—
a1(E)	322	#5	40'-10"	—
a2(E)	964	#6	6'-6"	—
b(E)	414	#5	30'-8"	—
b1(E)	88	#6	47'-8"	—
b2(E)	410	#5	28'-0"	—
d(E)	542	#5	5'-7"	⌋
d1(E)	542	#5	8'-0"	⌋
e(E)	112	#4	15'-6"	—
e1(E)	64	#4	12'-4"	—
e2(E)	56	#4	17'-4"	—
e3(E)	12	#4	22'-9"	—
e4(E)	6	#4	25'-2"	—
e5(E)	8	#8	34'-8"	—
e6(E)	8	#8	12'-4"	—
e7(E)	4	#8	38'-4"	—
m10(E)	8	#6	42'-10"	—
m11(E)	40	#6	6'-10"	—
m12(E)	16	#6	3'-2"	—
m13(E)	36	#5	4'-0"	—
s10(E)	72	#5	7'-8"	⌋
s11(E)	72	#5	11'-0"	⌋
v100(E)	86	#5	3'-1"	⌋
Reinforcement Bars, Epoxy Coated	Pound	90900		
Concrete Superstructure	Cu. Yd.	364.9		

Bars indicated thus 1 x 2 - #8 etc. indicates 1 line of bars with 2 lengths per line.

DESIGNED - CORY D. KOLTVEIT
 CHECKED - H.I.D. / J.O.V.
 DRAWN - IAN J. ANDREWS
 CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED
 PASSED
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

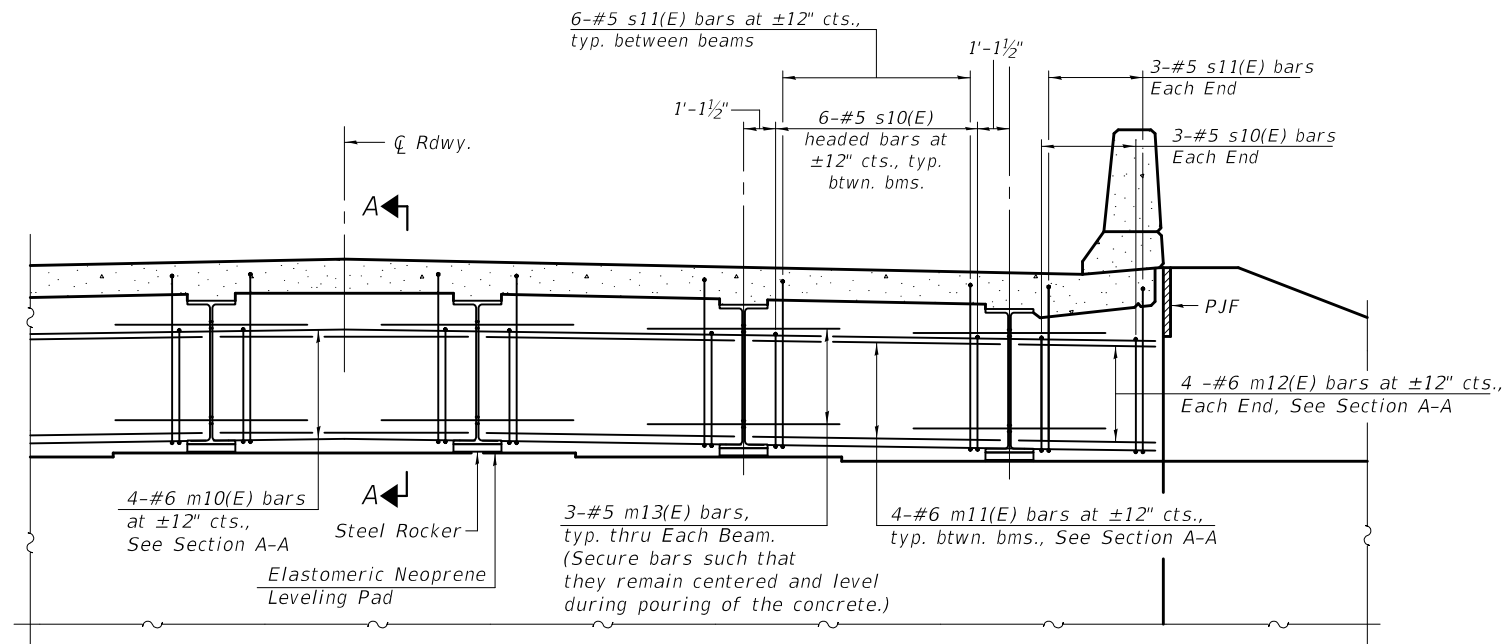
DATE - DECEMBER 7, 2017
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

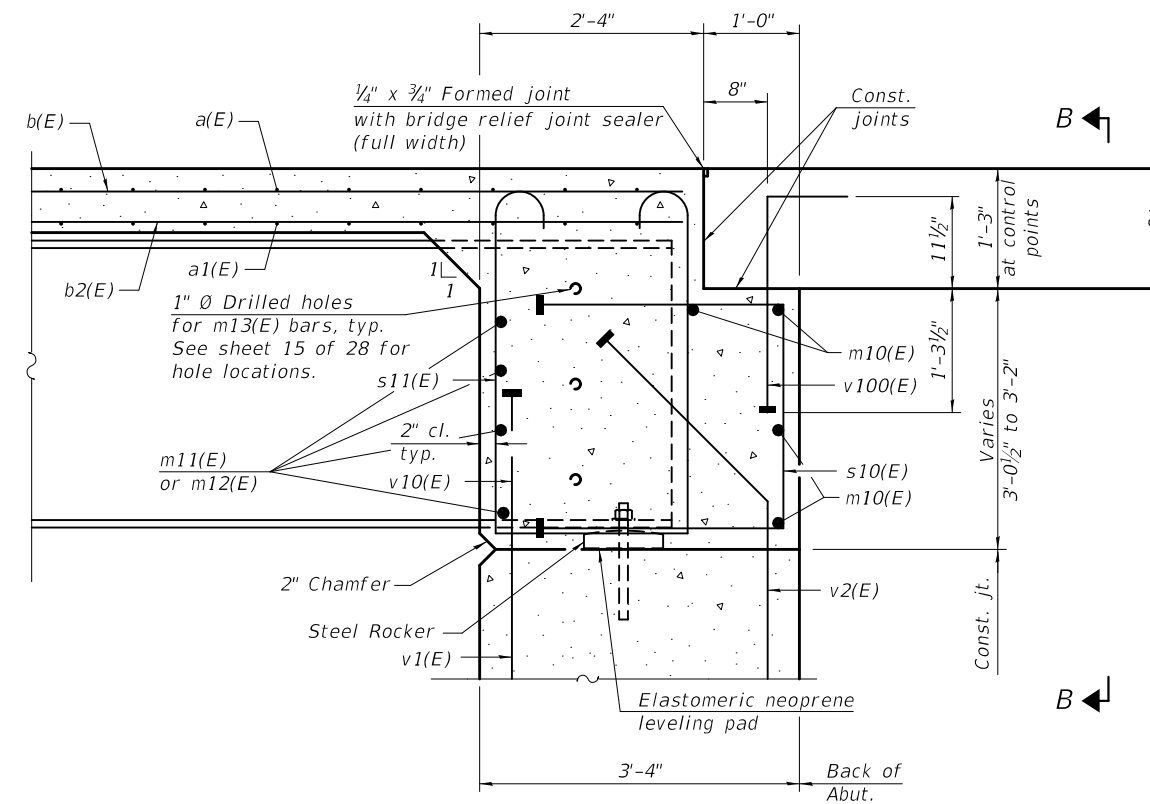
SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 060 - 0349

SHEET 10 OF 28 SHEETS

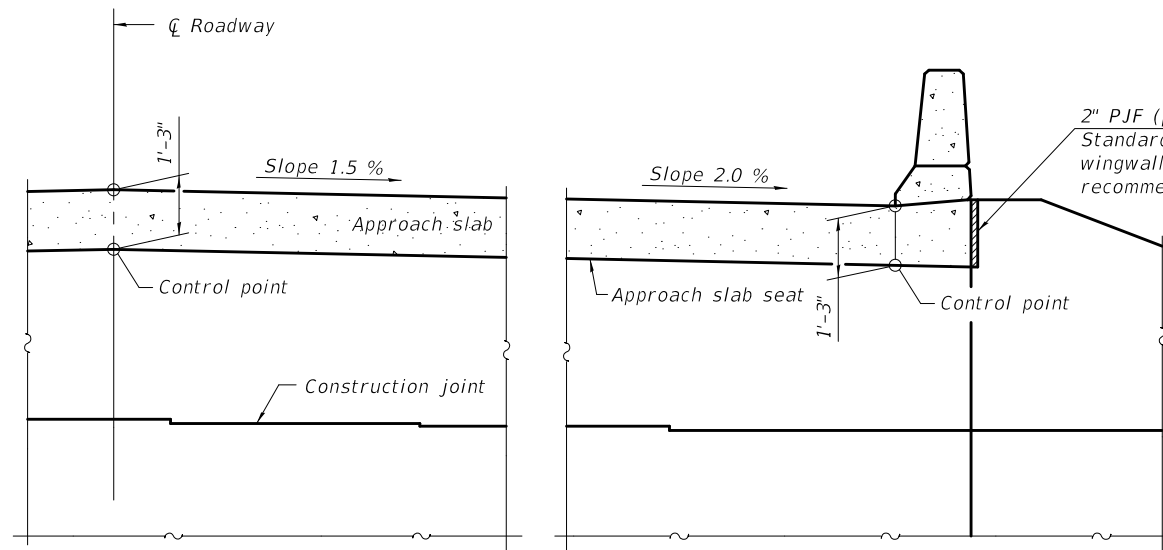
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	56
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				



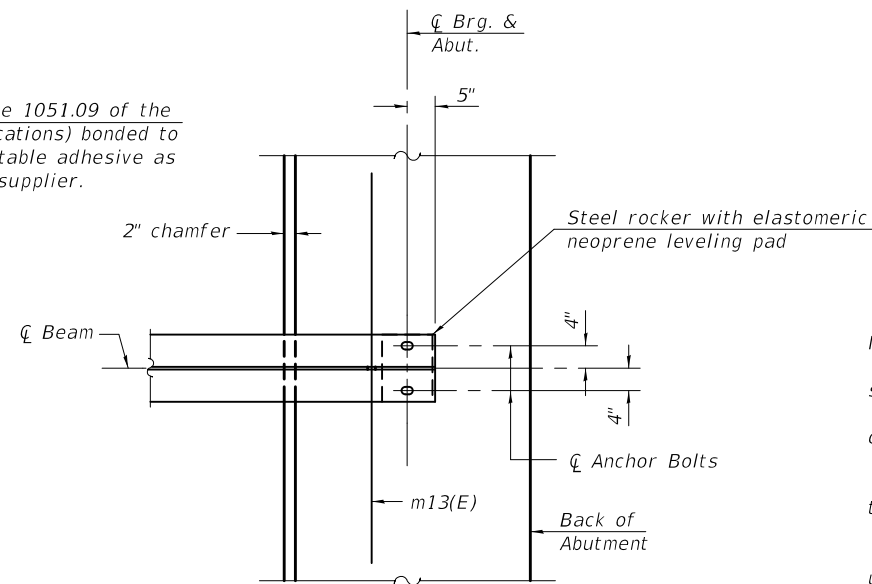
DIAPHRAGM AT ABUTMENT



SECTION A-A



SECTION B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 28.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 28.
 For details of bars s10(E), s11(E) and v100(E) see sheet 10 of 28.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 16 of 28.
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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DIA-SB2448-0 2-17-2017

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED
 PASSED

ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2017

REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

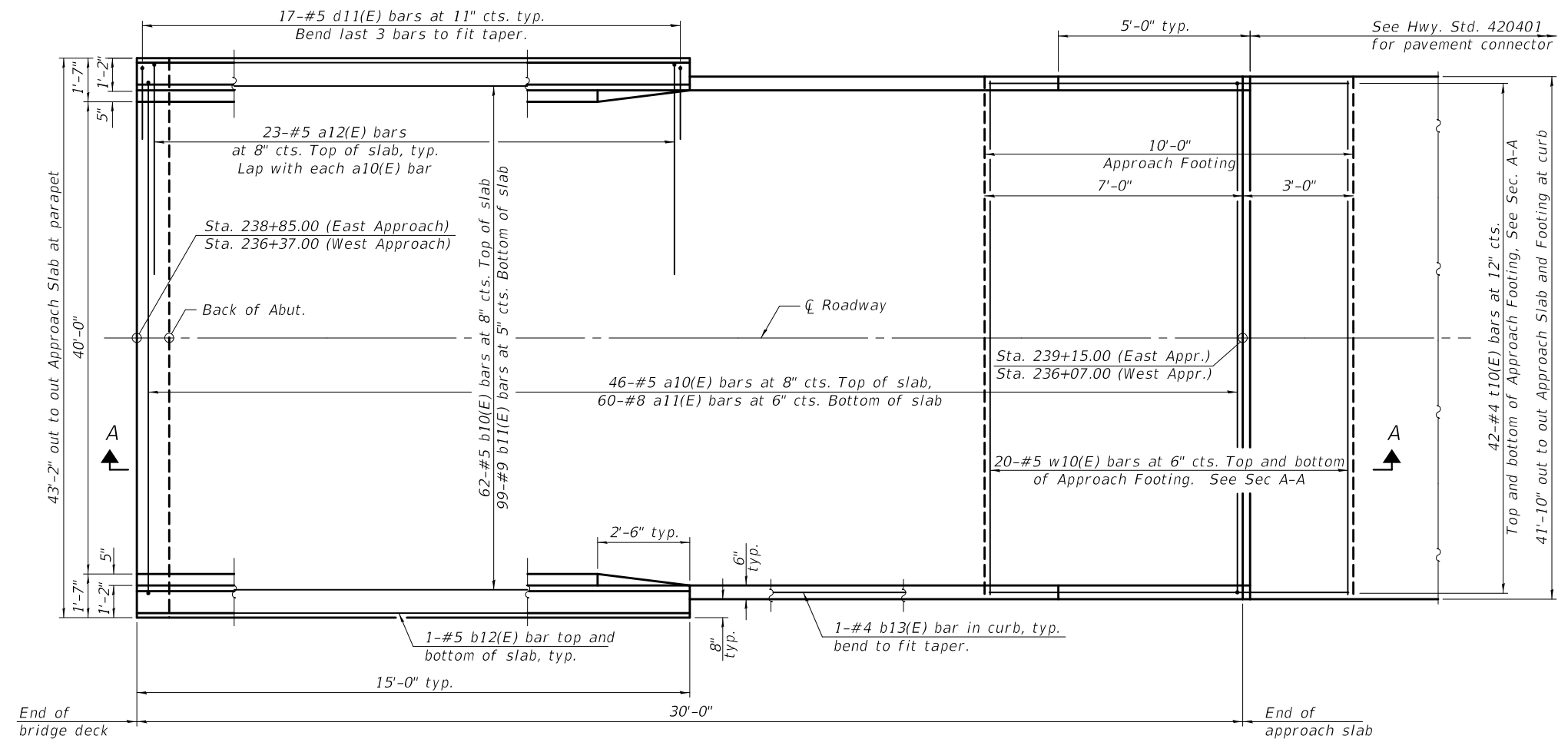
DIAPHRAGM DETAILS
 STRUCTURE NO. 060 - 0349

SHEET 11 OF 28 SHEETS

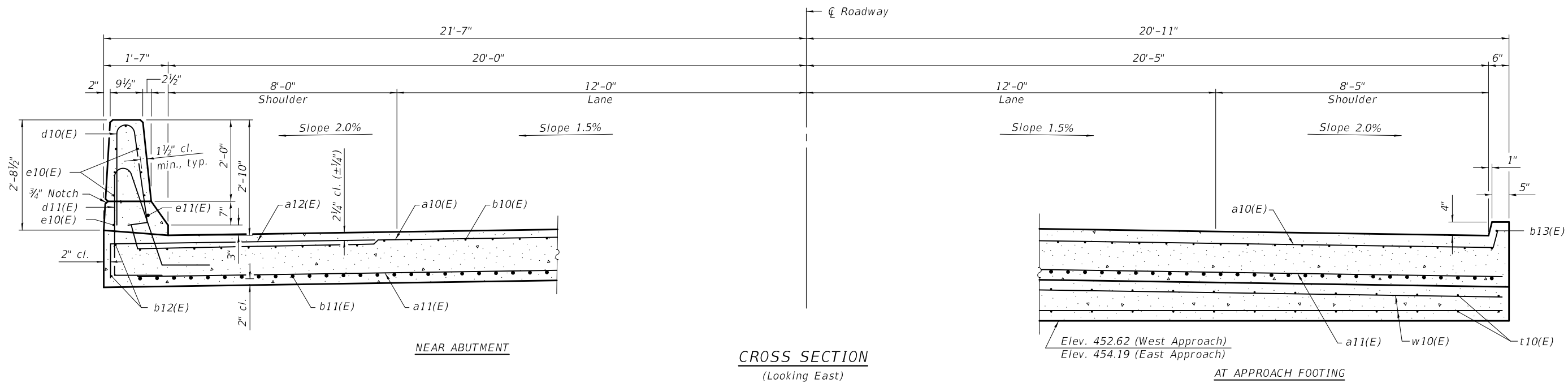
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	57
CONTRACT NO. 76G56				

ILLINOIS FED. AID PROJECT

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PLAN
 (East Approach shown, West similar by 180° rotation)



CROSS SECTION
 (Looking East)

BAIA-CIP-34FS-0 2-17-2017

DESIGNED - CORY D. KOLTVEIT	EXAMINED
CHECKED - H.I.D./J.O.V.	PASSED
DRAWN - IAN J. ANDREWS	
CHECKED - C.D.K./H.I.D./J.O.V./G.R.A.	

DATE - DECEMBER 7, 2017
 ENGINEER OF BRIDGES AND STRUCTURES
 (Signature)

REVISD -
REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 060 - 0349

SHEET 12 OF 28 SHEETS

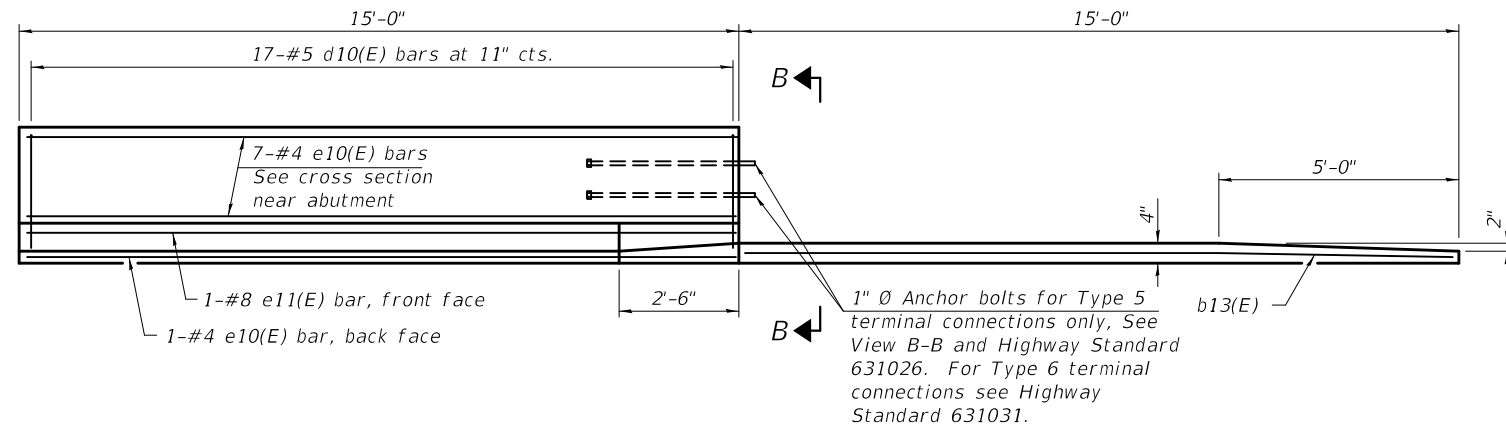
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	58
CONTRACT NO. 76G56				

ILLINOIS FED. AID PROJECT

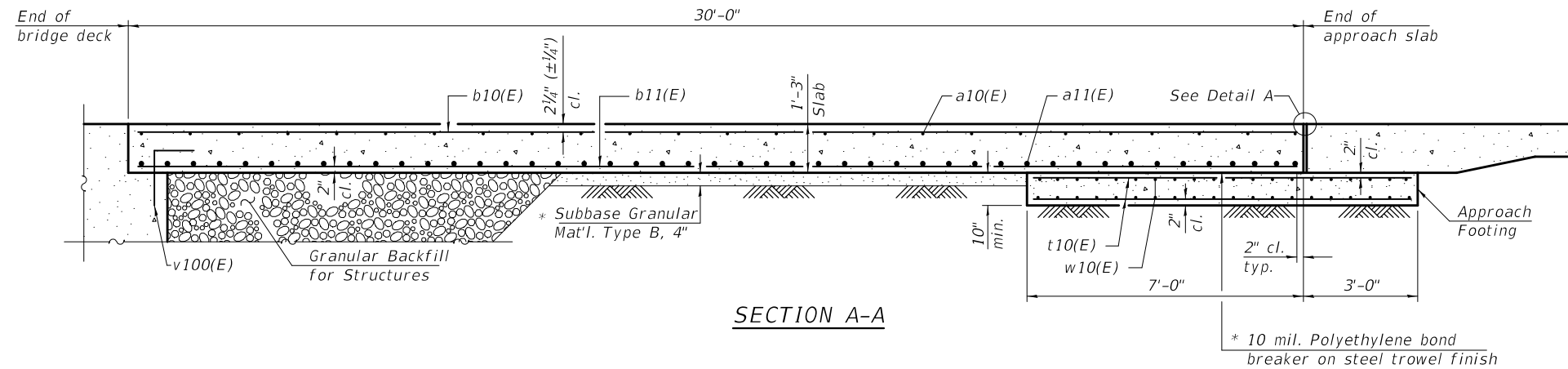
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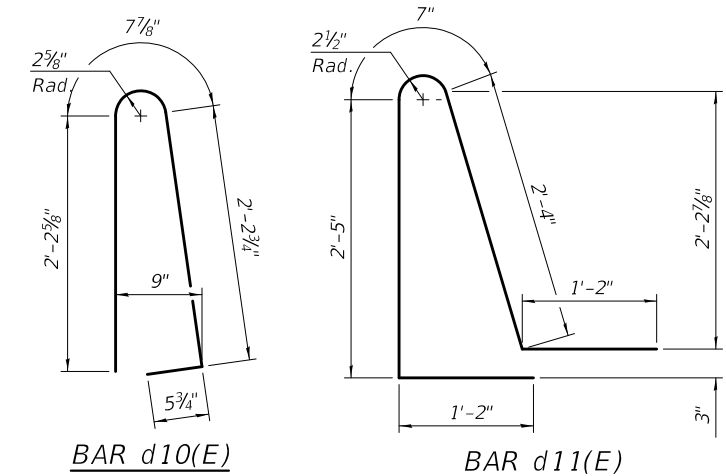
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 28.



INSIDE ELEVATION OF PARAPET AND CURB

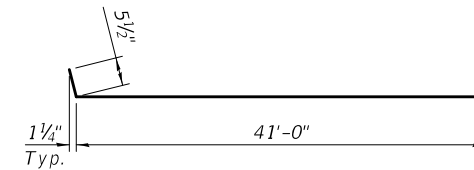


SECTION A-A

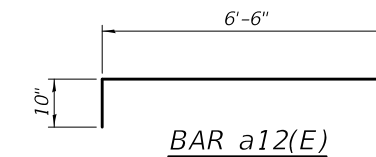


BAR d10(E)

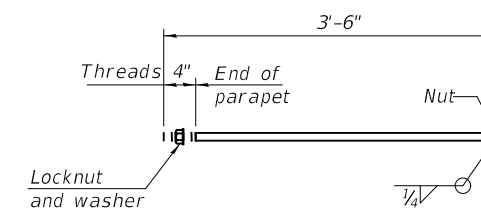
BAR d11(E)



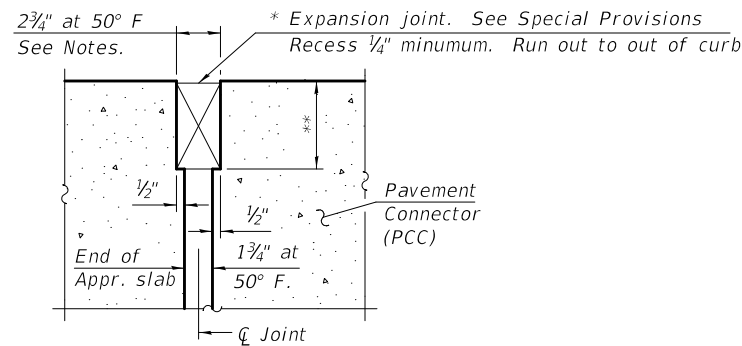
BAR a10(E)



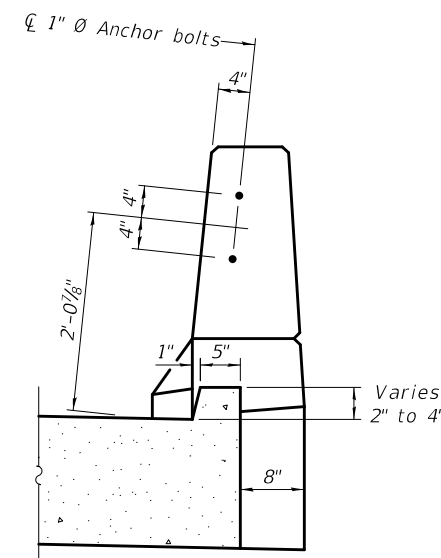
BAR a12(E)



* 1" Ø ANCHOR BOLT
 (Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)



DETAIL A



VIEW B-B

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a10(E)	92	#5	41'-11"	—	
a11(E)	120	#8	41'-6"	—	
a12(E)	92	#5	7'-4"	—	
b10(E)	124	#5	29'-8"	—	
b11(E)	198	#9	29'-8"	—	
b12(E)	8	#5	14'-8"	—	
b13(E)	4	#4	14'-8"	—	
d10(E)	68	#5	5'-7"	U	
d11(E)	68	#5	7'-8"	U	
e10(E)	32	#4	14'-8"	—	
e11(E)	4	#8	14'-8"	—	
t10(E)	168	#4	9'-8"	—	
w10(E)	80	#5	41'-6"	—	
Concrete Superstructure				Cu. Yd.	6.7
Concrete Superstructure (Approach Slab)				Cu. Yd.	119.1
Concrete Structures				Cu. Yd.	31.4
Reinforcement Bars, Epoxy Coated				Pound	47950

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

BAIA-CIP-34FS-0 2-17-2017

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DESIGNED - CORY D. KOLTVEIT	EXAMINED
CHECKED - H.I.D./J.O.V.	PASSED
DRAWN - IAN J. ANDREWS	
CHECKED - C.D.K./H.I.D./J.O.V./G.R.A.	

Signature: *Joanne F. J...*
 ENGINEER OF BRIDGE DESIGN

Signature: *Carl...*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2017
REVISED -
REVISED -

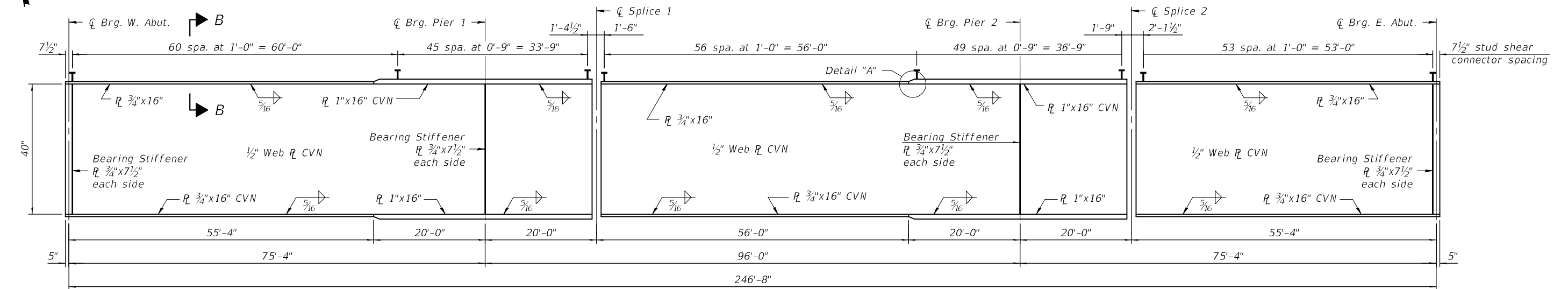
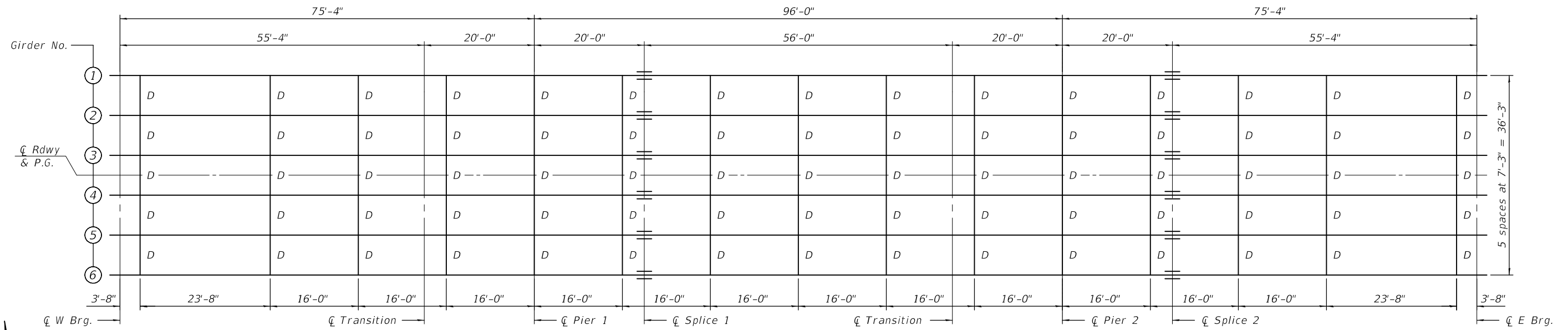
STATE OF ILLINOIS
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BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 060 - 0349

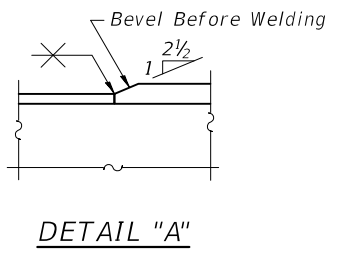
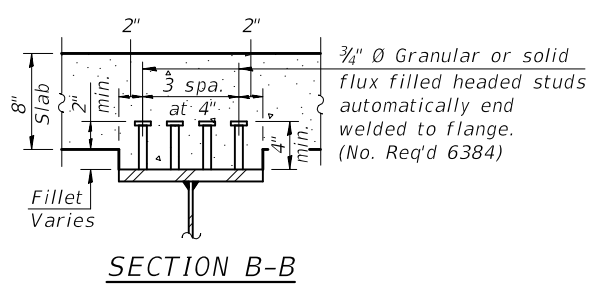
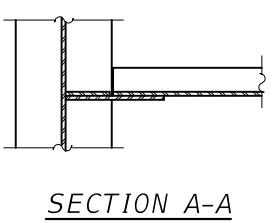
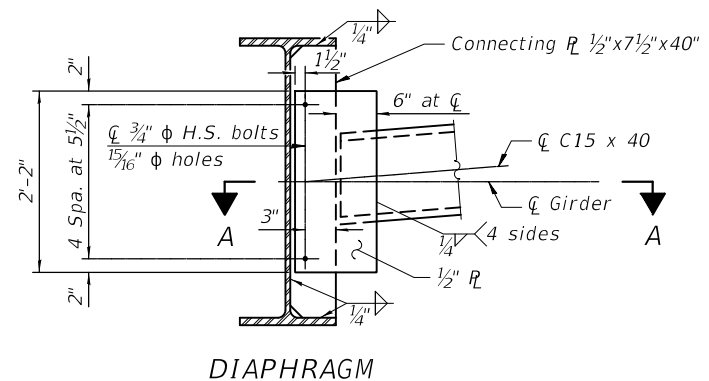
SHEET 13 OF 28 SHEETS

F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 59
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.



Notes:

- Omit connecting plates on exterior side of exterior girder.
- Two hardened washers shall be required for all oversized holes in diaphragms.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.
- Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 sections. The alternate, if utilized, shall be provided at no extra cost to the Department.
- All plate girder flanges, webs, and bearing stiffeners shall be AASHTO M270 Grade 50 Steel.

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DESIGNED - CORY D. KOLTVEIT	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - DECEMBER 7, 2017
CHECKED - H.I.D. / J.O.V.	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - IAN J. ANDREWS	ENGINEER OF BRIDGE DESIGN	REVISOR -
CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.	ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

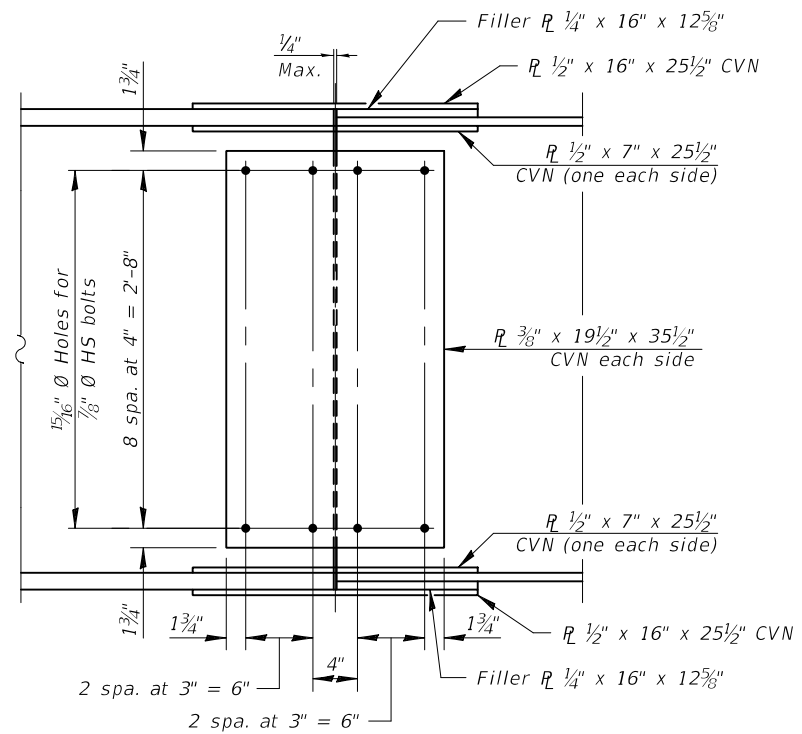
STRUCTURAL STEEL
 STRUCTURE NO. 060 - 0349

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	60
CONTRACT NO. 76G56				

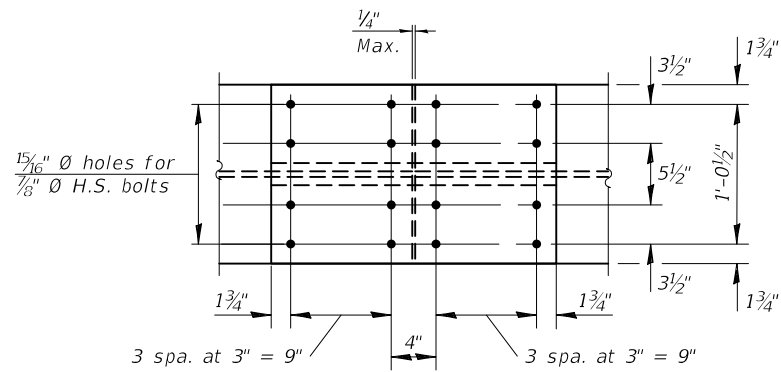
SHEET 14 OF 28 SHEETS

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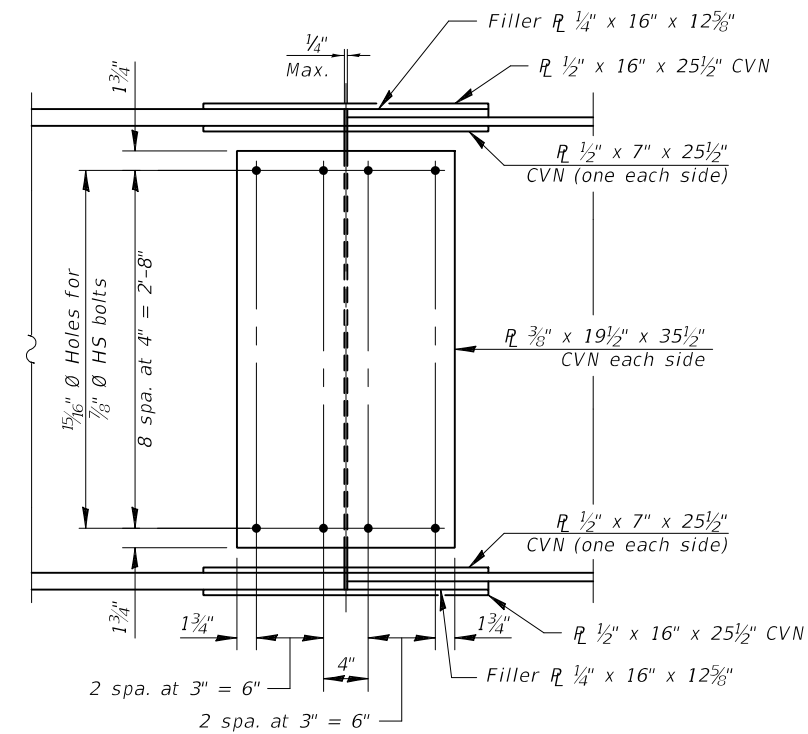
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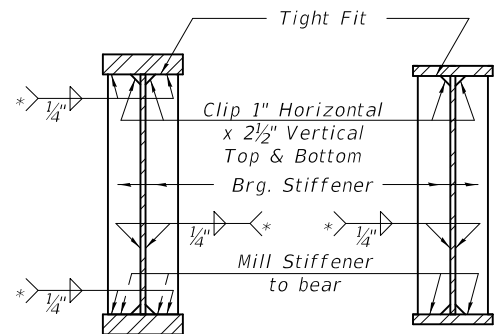
ELEVATION
(Splice 1)



PLAN
(Top and bottom flange splice 1 and splice 2)



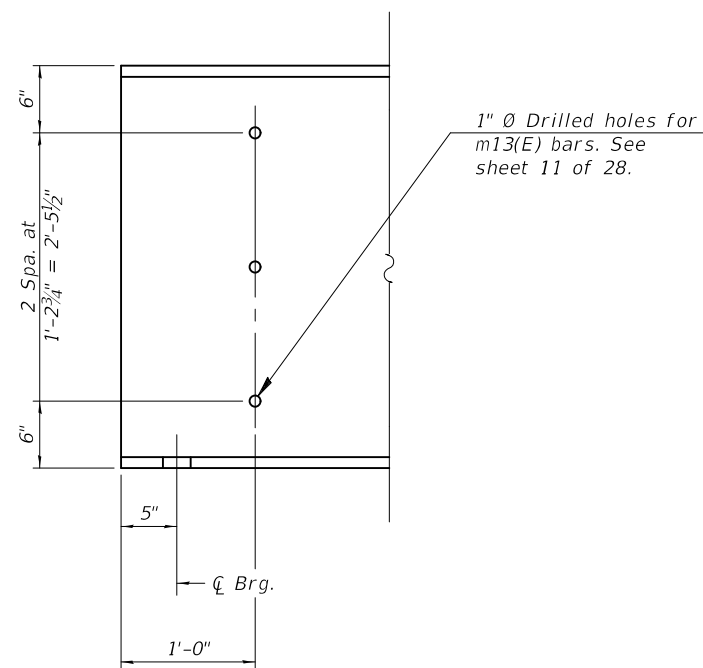
ELEVATION
(Splice 2)



SECTION AT PIER

SECTION AT ABUTMENT

* Terminate 1/4" ($\pm 1/8$ ") from the end of plate intersects.



END OF BEAM ELEVATION

Notes:
All splice plates, except filler plates, shall be AASHTO M270, Grade 50.
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

*** TOP OF GIRDER WEB ELEVATIONS**

Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Brg. E. Abut
Girder 1	454.12	454.46	454.52	454.95	455.01	455.37
Girder 2	454.25	454.59	454.66	455.09	455.15	455.50
Girder 3	454.36	454.70	454.77	455.19	455.26	455.61
Girder 4	454.36	454.70	454.77	455.19	455.26	455.61
Girder 5	454.25	454.59	454.66	455.09	455.15	455.50
Girder 6	454.12	454.46	454.52	454.95	455.01	455.37

* For fabrication use only.

MODEL: 0600349-76G56-015
FILE NAME: p:\w\084EBID\INTEG\illmois.gov\PWIDOT\Documents\Bureau of Bridges and Structures\Projects\0600349\CADD Plans\0600349-76G56.dgn

DESIGNED - CORY D. KOLTVEIT
CHECKED - H.I.D. / J.O.V.
DRAWN - IAN J. ANDREWS
CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED
PASSED

Joanne F. Joffe
ENGINEER OF BRIDGE DESIGN
Carl Kasper
ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2017

REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

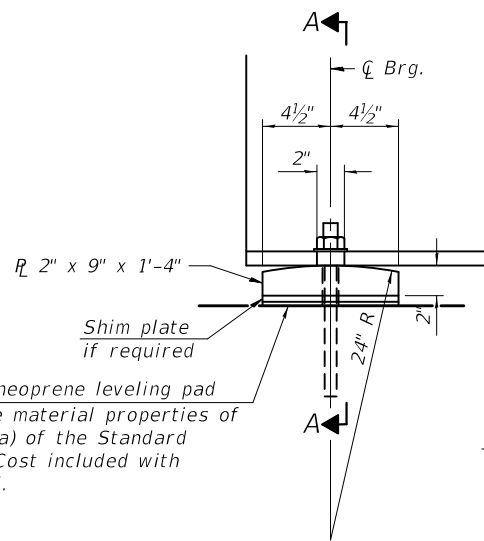
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 060 - 0349

SHEET 15 OF 28 SHEETS

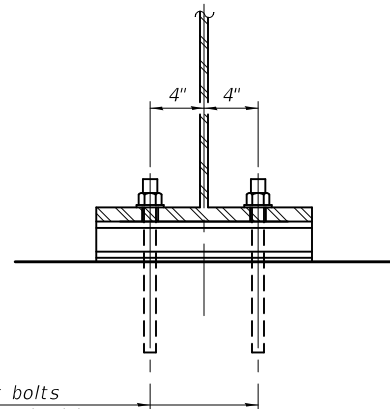
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	61
CONTRACT NO. 76G56				

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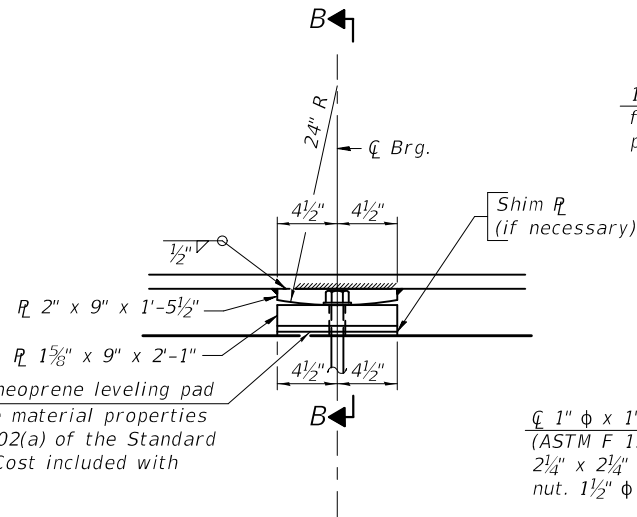
ELEVATION AT ABUT.



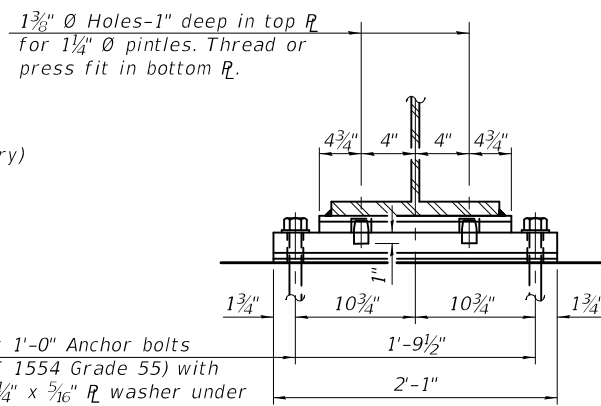
SECTION A-A

1" ϕ x 1'-0" anchor bolts
(ASTM F 1554 Grade 55) with
2 1/4" x 2 1/4" x 5/16" R washer under nut.
1 3/8" x 2" slotted hole in flange.
1 1/2" ϕ holes in bearing plate.

FIXED BEARING
(12 Req.)

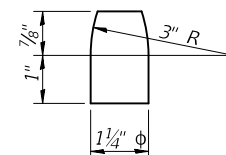


ELEVATION AT PIER



SECTION B-B

FIXED BEARING
(12 Req.)

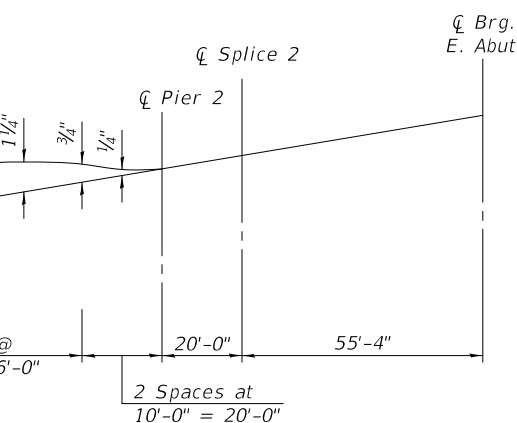


PINTLE

	GIRDER REACTION TABLE			
	Abut.		Pier	
	Interior	Exterior	Interior	Exterior
LLDF	0.761	-	0.761	-
OCF	-	-	-	-
R_{DC1} (k)	30.9	30.9	110.8	110.8
R_{DC2} (k)	5.1	5.1	18.0	18.0
R_{DW} (k)	14.9	14.9	52.3	52.3
R_{ℓ} (k)	110.4	99.8	198.4	179.4
R_{IM} (k)	26.8	24.2	39.6	35.8
R_{TOTAL} (k)	188.1	174.9	419.1	396.3

BILL OF MATERIAL

Item	Unit	Quantity
Anchor Bolts, 1"	Each	48



CAMBER DIAGRAM

	INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Span 2
I_s (in^4)	12631	16117	12631
$I_c(n)$ (in^4)	32740	38966	32740
$I_c(3n)$ (in^4)	24825	29395	24825
$I_c(cr)$ (in^4)	-	20443	-
S_s (in^3)	609	767	609
$S_c(n)$ (in^3)	857	1034	857
$S_c(3n)$ (in^3)	789	955	789
$S_c(cr)$ (in^3)	-	856	-
$DC1$ (k/ft)	0.910	0.941	0.910
M_{DC1} (k)	332.0	723.8	329.6
$DC2$ (k/ft)	0.150	0.150	0.150
M_{DC2} (k)	55.4	116.8	56.0
DW (k/ft)	0.363	0.363	0.363
M_{DW} (k)	134.2	282.6	135.6
LLDF	0.688	0.688	0.688
$M_{\ell + IM}$ (k)	1047.9	1250	1080.2
M_u (Strength I) (k)	2519	3662	2576
$\phi_r M_n$ Pos (k)	4298	-	4298
$\phi_r M_n$ Neg (k)	-	3953	-
f_s DC1 (ksi)	6.54	11.32	6.50
f_s DC2 (ksi)	0.84	1.64	0.85
f_s DW (ksi)	2.04	3.96	2.06
f_s ($\ell + IM$) (ksi)	14.68	17.52	15.13
f_s (Service II) (ksi)	28.51	39.69	29.08
$0.95R_n F_{yf}$ (ksi)	47.5	47.5	47.5
f_s (Total)(Strength I) (ksi)	-	-	-
$\phi_r F_n$ (ksi)	-	-	-
V_f (k)	28.1	30.4	23.5

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in^4 and in^3).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in^4 and in^3).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in^4 and in^3).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in^4 and in^3).
- $DC1$: Un-factored non-composite dead load (kips/ft.).
- M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
- $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- $M_{\ell + IM}$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\ell + IM}$
- $\phi_r M_n$ Pos: Compact composite positive moment capacity computed according to Article 6.10.7.1.
- $\phi_r M_n$ Neg: Non-compact composite negative moment capacity computed according to Article 6.10.8.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{nc}
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
- f_s ($\ell + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_{\ell + IM} / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable.
- f_s (Service II): Sum of stresses as computed below (ksi).
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (\ell + IM)$
- $0.95R_n F_{yf}$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (\ell + IM)$
- $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- V_r : Maximum factored shear range in span computed according to Article 6.10.10.
- OCF: Obtuse Correction Factor applied to non-continuous exterior beam ends and computed according to Article 4.6.2.2.3c-1 or as further simplified by IDOT provisions.
- R_{DC1} : Un-factored reaction due to non-composite dead load (kip).
- R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_{ℓ} : Un-factored live load reaction (kip).
- R_{IM} : Un-factored dynamic load allowance (impact) (kip).

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

All bearing plates shall be AASHTO M270 Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

All pintles shall be AASHTO M270 Grade 50.

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FILE NAME: pw:\08\EBID\INTEG\illmod5.gov\PW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0600349-76G56.dgn

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D./J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K./H.I.D./J.O.V./G.R.A.

EXAMINED	 ENGINEER OF BRIDGE DESIGN
PASSED	

DATE -	DECEMBER 7, 2017
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

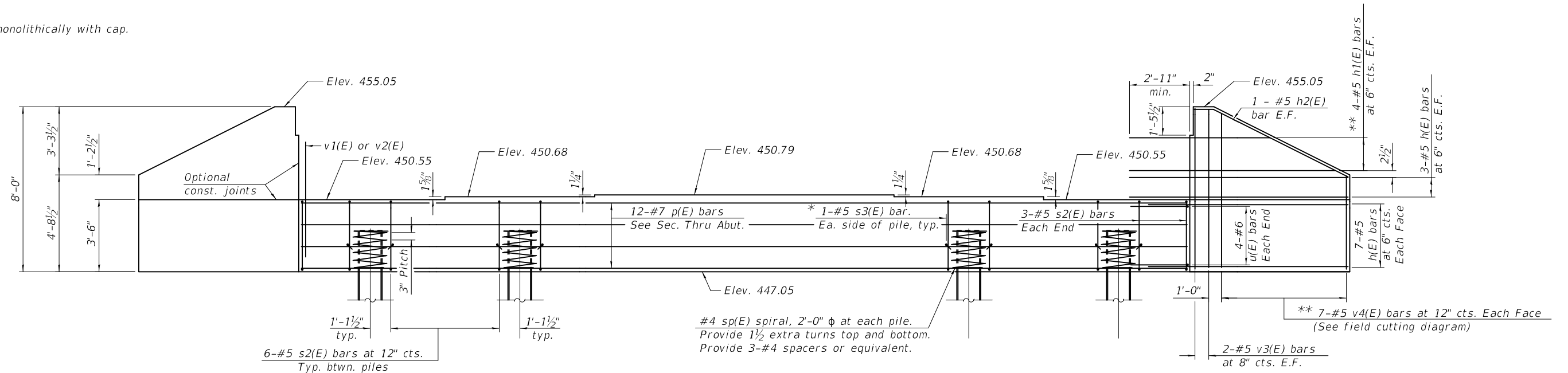
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 060 - 0349

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	62
CONTRACT NO. 76G56				

SHEET 16 OF 28 SHEETS

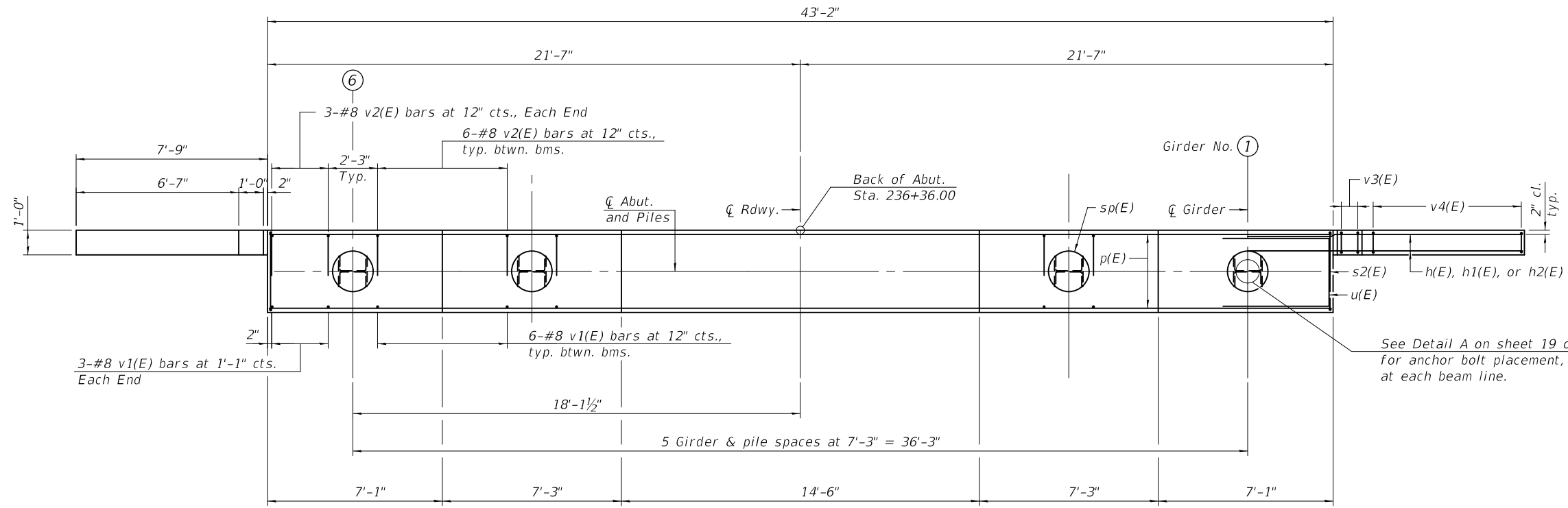
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Note:
Pour steps monolithically with cap.



ELEVATION

* Hook s3(E) bar around p(E) and s2(E) bars. Clear cover for the s3(E) bar will be 1 3/8".
** See field cutting diagram on sheet 19 of 28.



PLAN

PILE DATA

Type: HP 14x89 with Pile Shoes
Nominal Required Bearing: 705K
Factored Resistance Available: 253K
Est. Length: 65'
No. Production Piles: 5
No. Test Piles: 1

MODEL: 0600349-76G56-017
FILE NAME: pw:\VIL084EBID\INTEG\Illinois.gov\PW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0600349-76G56.dgn

DESIGNED -	CORY D. KOLTVEIT
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DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K./H.I.D./J.O.V./G.R.A.

EXAMINED	<i>Joanne F. J. [Signature]</i>	DATE -	DECEMBER 7, 2017
PASSED	<i>Carl [Signature]</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

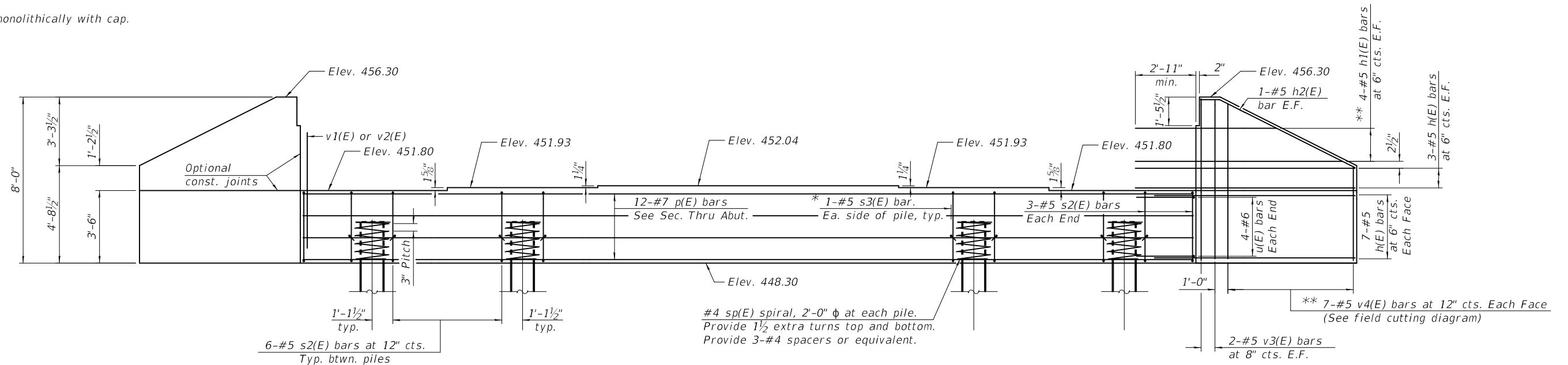
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 060 - 0349

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	63
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

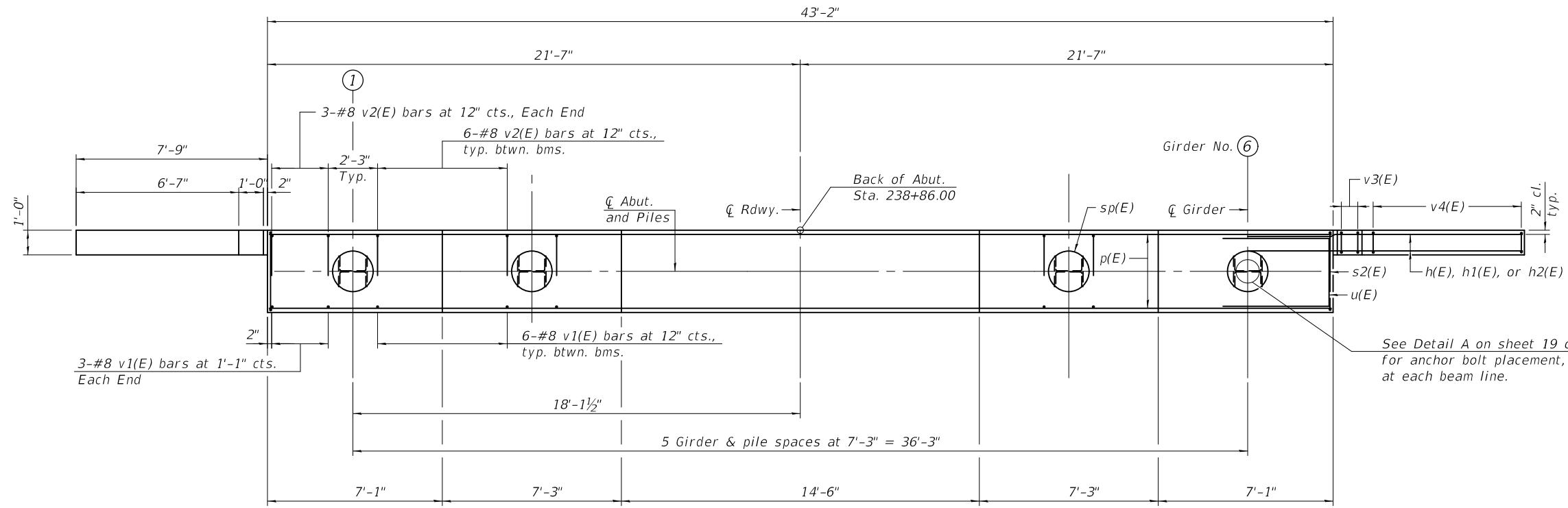
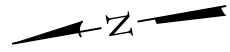
SHEET 17 OF 28 SHEETS

Note:
Pour steps monolithically with cap.



ELEVATION

* Hook s3(E) bar around p(E) and s2(E) bars. Clear cover for the s3(E) bar will be 1 3/8".
** See field cutting diagram on sheet 19 of 28.



PLAN

See Detail A on sheet 19 of 28 for anchor bolt placement, typ. at each beam line.

PILE DATA

Type: HP 14x89 with Pile Shoes
Nominal Required Bearing: 705K
Factored Resistance Available: 253K
Est. Length: 62'
No. Production Piles: 5
No. Test Piles: 1

MODEL: 0600349-76G56-018
FILE NAME: pw:\VIL084EBID\INTEG\Illinois.gov\PW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0600349-76G56.dgn

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D./J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K./H.I.D./J.O.V./G.R.A.

EXAMINED	 JAYME F. JOFFE ENGINEER OF BRIDGE DESIGN	DATE -	DECEMBER 7, 2017
PASSED		 CARL PERRY ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

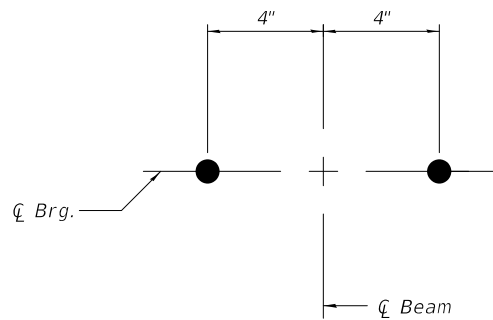
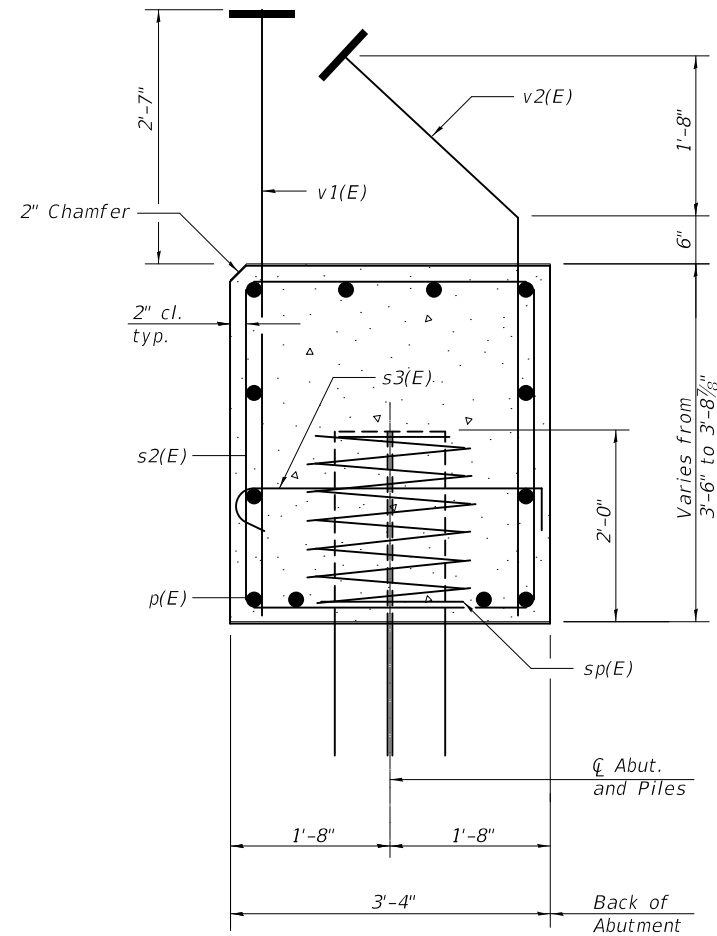
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 060 - 0349

SHEET 18 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	64
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

MODEL: 0600349-76G56-019
 FILE NAME: p:\w\1084EBID\INTEG\ilmds.gov\PWIDOT\Documents\Bureau of Bridges and Structures\Projects\0600349-76G56.dgn



DETAIL A

WEST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	10'-6"	—
h1(E)	8	#5	17'-0"	—
h2(E)	4	#5	8'-0"	—
p(E)	12	#7	42'-10"	—
s2(E)	36	#5	13'-3"	□
s3(E)	12	#5	4'-1"	⌋
u(E)	8	#6	10'-8"	□
v1(E)	36	#8	5'-11"	—
v2(E)	36	#8	6'-2"	—
v3(E)	8	#5	7'-8"	—
v4(E)	14	#5	11'-8"	—
sp(E)*	6	#4	2'-0"	W
Structure Excavation		Cu. Yd.	100	
Concrete Structures		Cu. Yd.	23.1	
Reinforcement Bars, Epoxy Coated		Pound	4030	
Furnishing Steel Piles, HP 14x89		Foot	325	
Driving Piles		Foot	325	
Test Pile Steel, HP 14x89		Each	1	
Pile Shoes		Each	6	

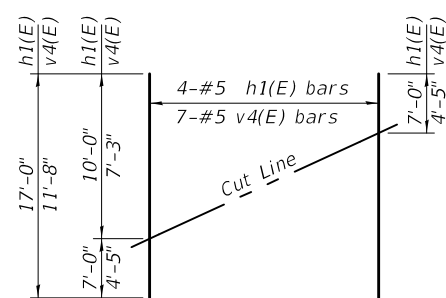
* Length is height of spiral

EAST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	10'-6"	—
h1(E)	8	#5	17'-0"	—
h2(E)	4	#5	8'-0"	—
p(E)	12	#7	42'-10"	—
s2(E)	36	#5	13'-3"	□
s3(E)	12	#5	4'-1"	⌋
u(E)	8	#6	10'-8"	□
v1(E)	36	#8	5'-11"	—
v2(E)	36	#8	6'-2"	—
v3(E)	8	#5	7'-8"	—
v4(E)	14	#5	11'-8"	—
sp(E)*	6	#4	2'-0"	W
Structure Excavation		Cu. Yd.	100	
Concrete Structures		Cu. Yd.	23.1	
Reinforcement Bars, Epoxy Coated		Pound	4030	
Furnishing Steel Piles, HP 14x89		Foot	310	
Driving Piles		Foot	310	
Test Pile Steel, HP 14x89		Each	1	
Pile Shoes		Each	6	

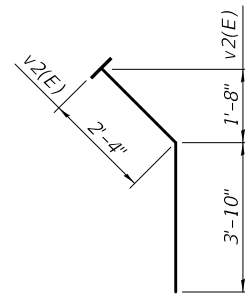
For details of piles see sheet 23 of 28.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

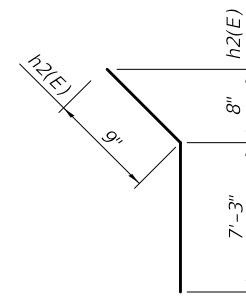


FIELD CUTTING DIAGRAM

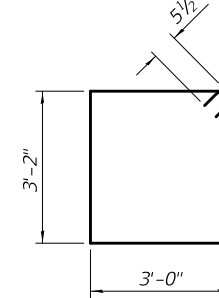
Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



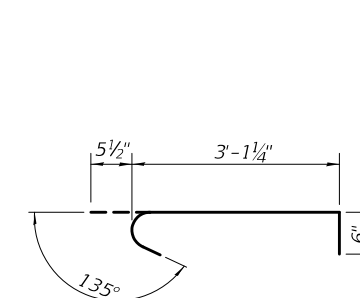
BAR v2(E)



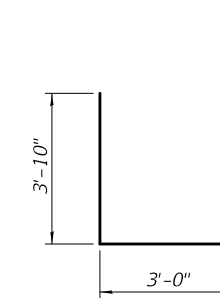
BAR h2(E)



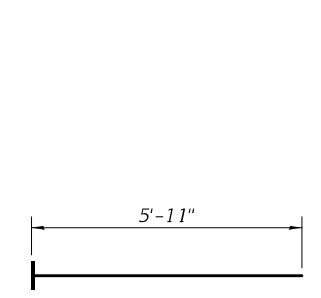
BAR s2(E)



BAR s3(E)



BAR u(E)



BAR v1(E)

DESIGNED - CORY D. KOLTVEIT
 CHECKED - H.I.D. / J.O.V.
 DRAWN - IAN J. ANDREWS
 CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED
 PASSED

Joanne F. Joffe
 ENGINEER OF BRIDGE DESIGN
 Carl Kasper
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2017

REVISED -
 REVISED -

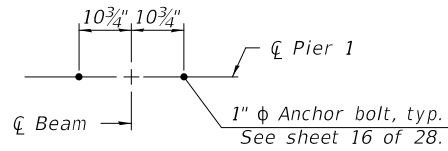
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
 STRUCTURE NO. 060 - 0349

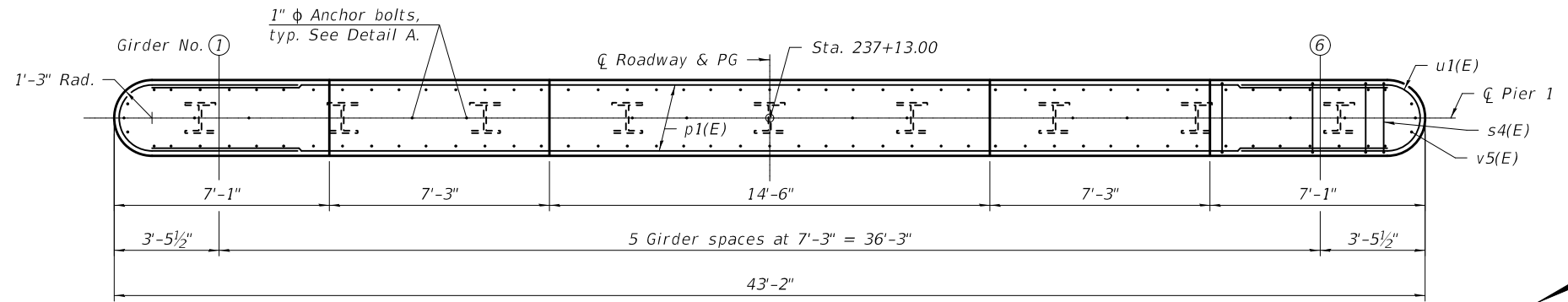
SHEET 19 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	65
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

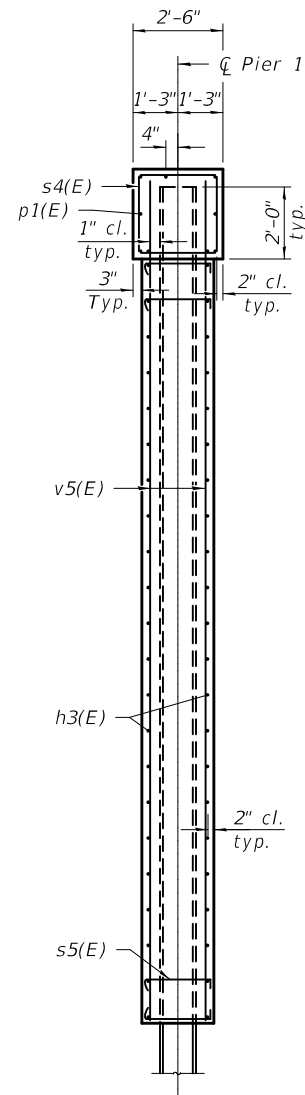
Notes:
 Pour steps monolithically with cap.
 See sheet 22 of 28 for additional pier details and Bill of Material.
 Space reinforcement in cap to miss anchor bolts.
 For details of piles, see sheet 23 of 28.



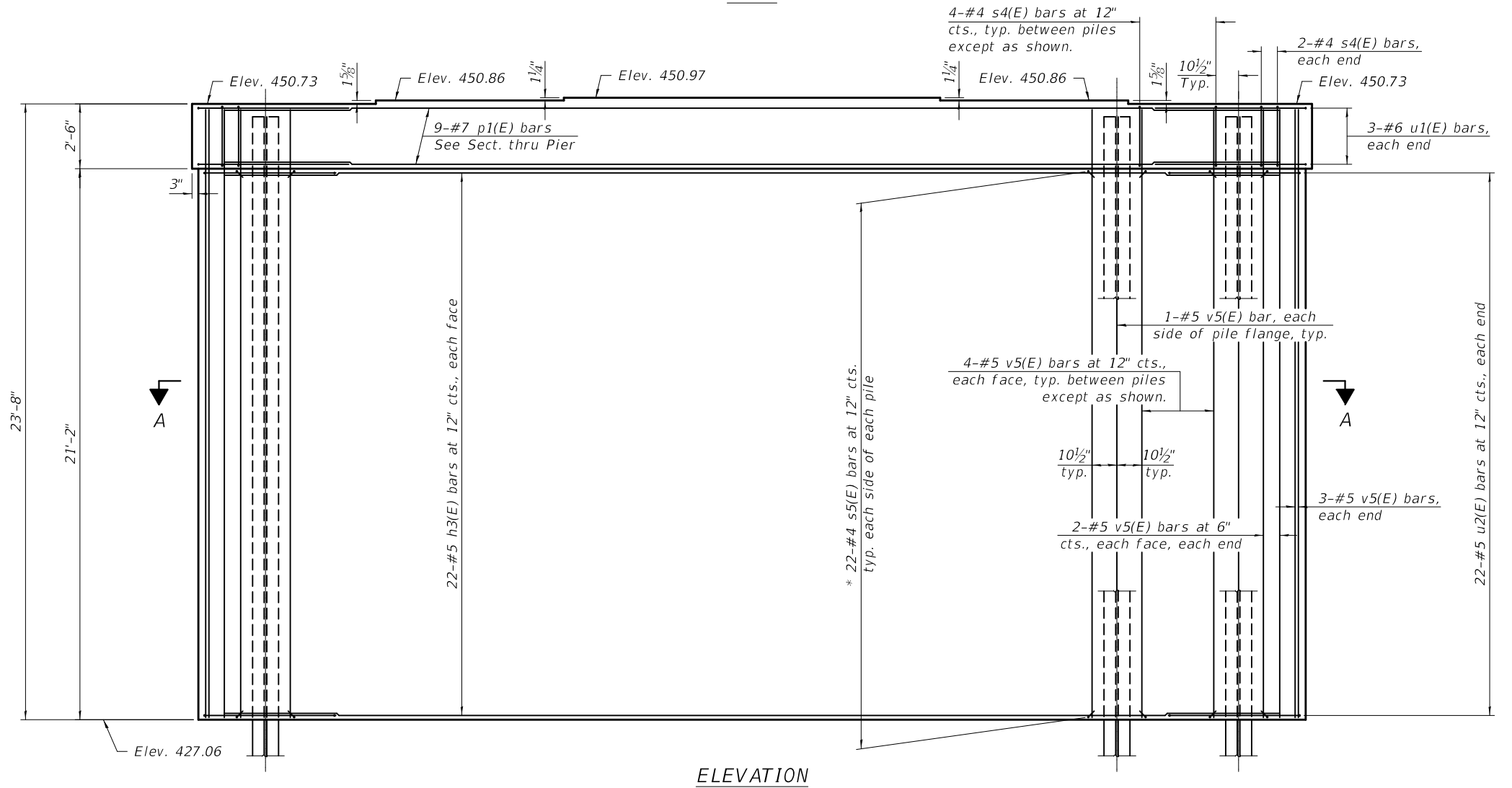
DETAIL A



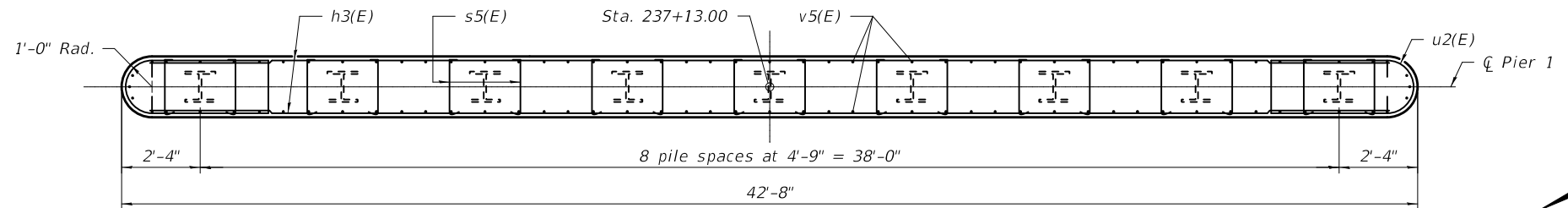
PLAN



SECTION THRU PIER



ELEVATION



SECTION A-A

* Hook s5(E) bar around h3(E) and v5(E) bars. Clear cover for the s5(E) bar will be 1 3/8".

MODEL: 0600349-76G56-020
 FILE NAME: p:\w\084848\INTEG\illinois.gov\PWIDOT\Documents\Projects\0600349\CADD Plans\0600349-76G56.dgn

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED	<i>Joanne F. Joffe</i>
PASSED	<i>Carl Kreyer</i>
ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	DECEMBER 7, 2017
REVISED -	
REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

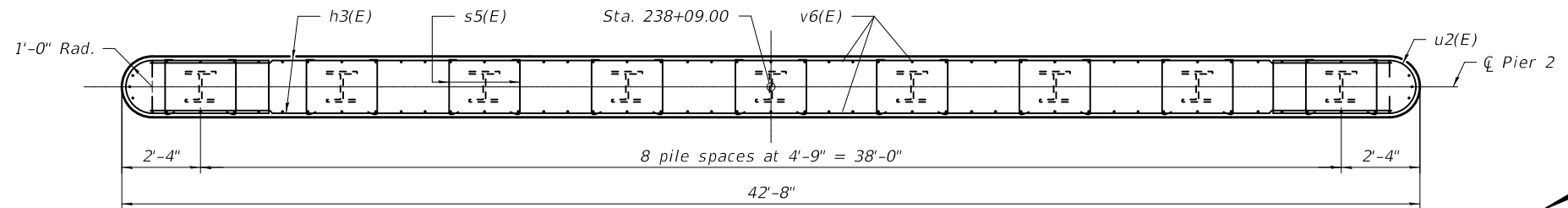
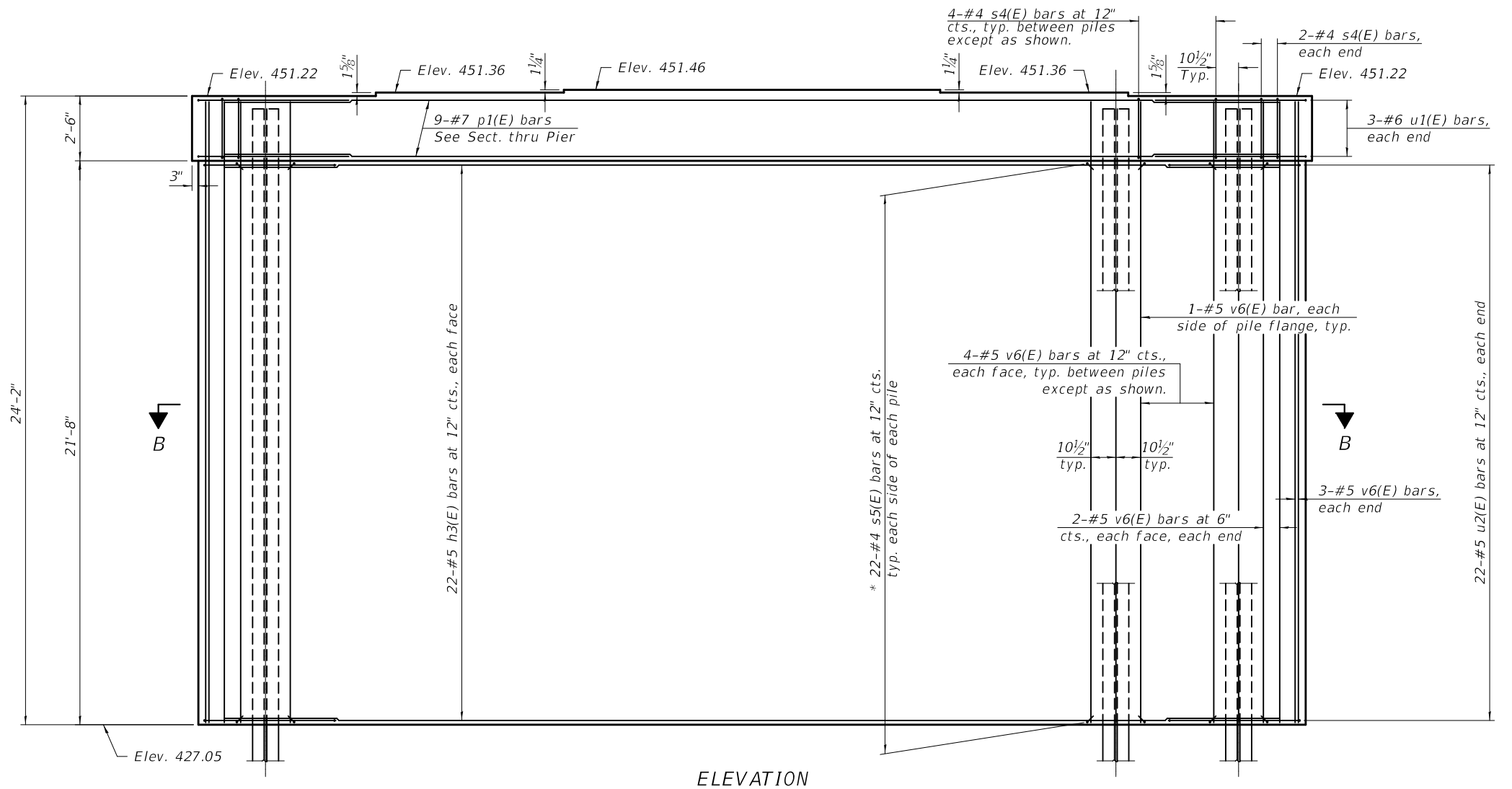
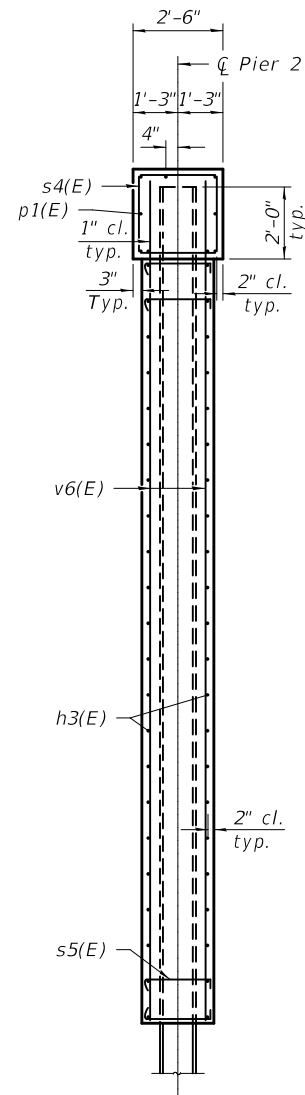
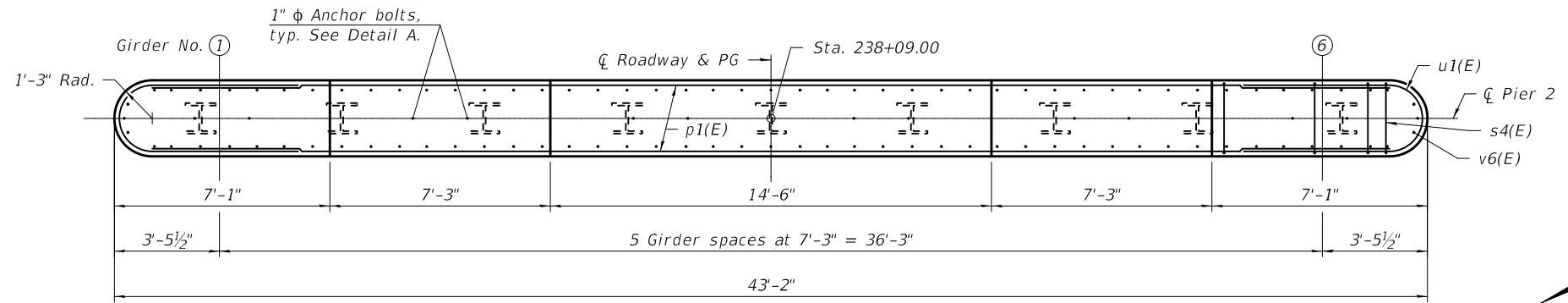
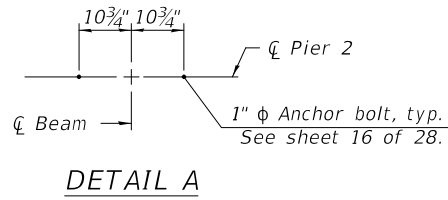
PIER 1
 STRUCTURE NO. 060 - 0349

SHEET 20 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	66
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

Notes:

Pour steps monolithically with cap.
 See sheet 22 of 28 for additional pier details and Bill of Material.
 Space reinforcement in cap to miss anchor bolts.
 For details of piles, see sheet 23 of 28.



* Hook s5(E) bar around h3(E) and v5(E) bars. Clear cover for the s5(E) bar will be 1 3/8 inch.

MODEL: 0600349-76G56-021
 FILE NAME: p:\w\084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0600349\CADD Plans\0600349-76G56.dgn

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED	<i>Jaime F. Joffe</i>
PASSED	<i>Carl Kreyer</i>
ENGINEER OF BRIDGES AND STRUCTURES	

DATE -	DECEMBER 7, 2017
REVISED -	
REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 2
 STRUCTURE NO. 060 - 0349

SHEET 21 OF 28 SHEETS

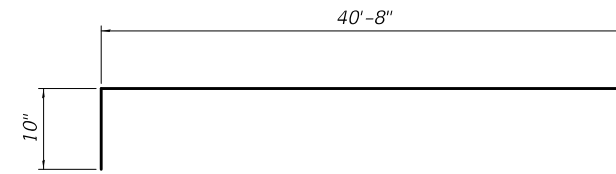
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	67
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

**PIER 1
BILL OF MATERIAL**

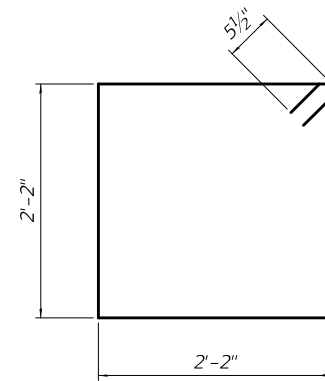
Bar	No.	Size	Length	Shape
h3(E)	44	#5	42'-4"	
p1(E)	9	#7	40'-8"	
s4(E)	36	#4	9'-7"	
s5(E)	396	#4	2'-9"	
u1(E)	6	#6	11'-10"	
u2(E)	44	#5	11'-6"	
v5(E)	96	#5	23'-3"	
Concrete Structures		Cu. Yd.	76.6	
Reinforcement Bars, Epoxy Coated		Pound	6610	
Furnishing Steel Piles, HP 14x117		Foot	504	
Driving Piles		Foot	504	
Test Pile Steel, HP 14x117		Each	1	
Pile Shoes		Each	9	
Cofferdam Excavation		Cu. Yd.	96	
Cofferdam (Type 1) (Location-1)		Each	1	

**PIER 2
BILL OF MATERIAL**

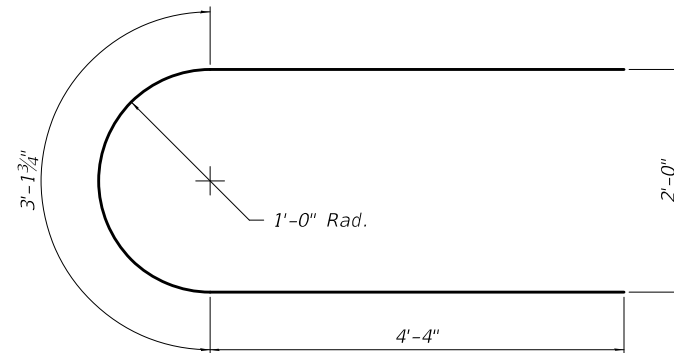
Bar	No.	Size	Length	Shape
h3(E)	44	#5	42'-4"	
p1(E)	9	#7	40'-8"	
s4(E)	36	#4	9'-7"	
s5(E)	396	#4	2'-9"	
u1(E)	6	#6	11'-10"	
u2(E)	44	#5	11'-6"	
v6(E)	96	#5	23'-9"	
Structure Excavation		Cu. Yd.	134	
Concrete Structures		Cu. Yd.	78.2	
Reinforcement Bars, Epoxy Coated		Pound	6660	
Furnishing Steel Piles, HP 14x117		Foot	488	
Driving Piles		Foot	488	
Test Pile Steel, HP 14x117		Each	1	
Pile Shoes		Each	9	



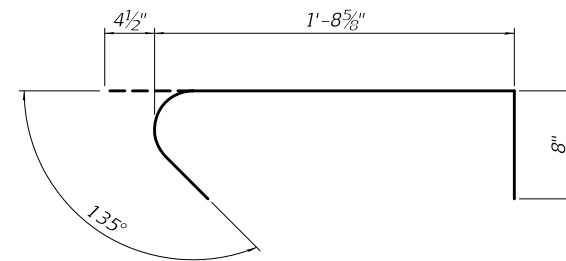
BARS h3(E)



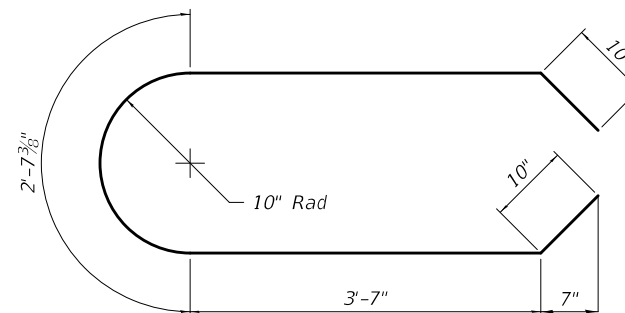
BAR s4(E)



BAR u1(E)



BAR s5(E)



BAR u2(E)

PIER 1 PILE DATA

Type: Steel piles HP 14x117 with Pile Shoes
 Nominal Required Bearing: 929 kips
 Factored Resistance Available: 477 kips
 Est. Length: 63'
 No. Production Piles: 8
 No. Test Piles: 1

PIER 2 PILE DATA

Type: Steel piles HP 14x117 with Pile Shoes
 Nominal Required Bearing: 929 kips
 Factored Resistance Available: 494 kips
 Est. Length: 61'
 No. Production Piles: 8
 No. Test Piles: 1

MODEL: 0600349-76G56-022
 FILE NAME: p:\w\1084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0600349-76G56.dgn

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED	
PASSED	

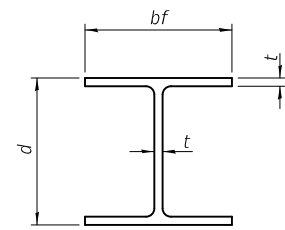
DATE -	DECEMBER 7, 2017
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER DETAILS
STRUCTURE NO. 060 - 0349**

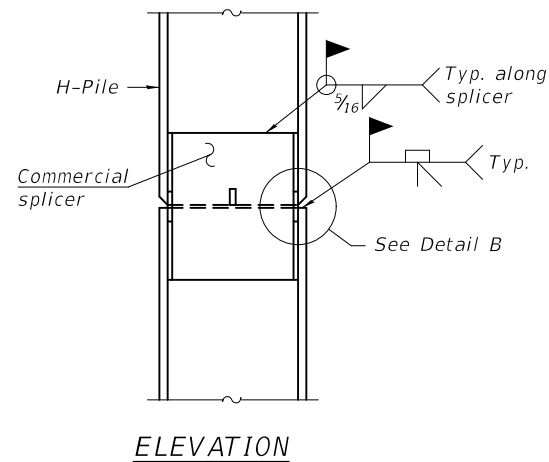
SHEET 22 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	68
			CONTRACT NO. 76G56	
		ILLINOIS	FED. AID PROJECT	

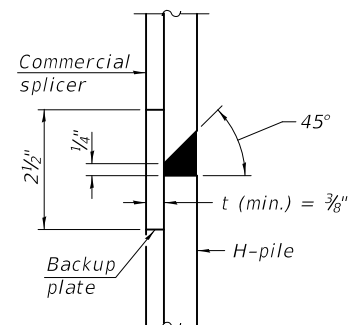


STEEL PILE TABLE

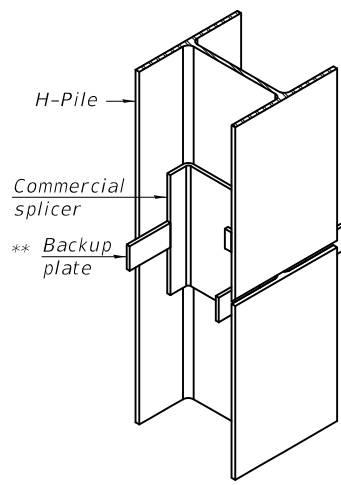
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

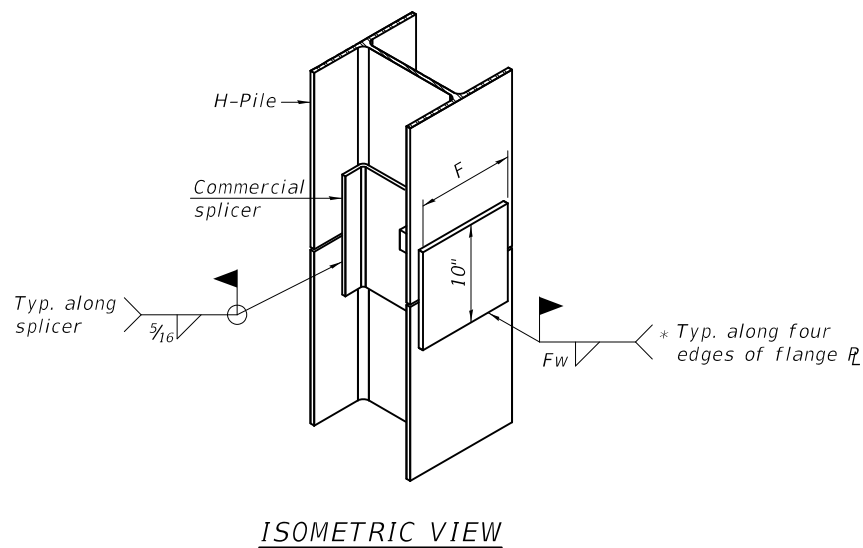


DETAIL "B"



ISOMETRIC VIEW

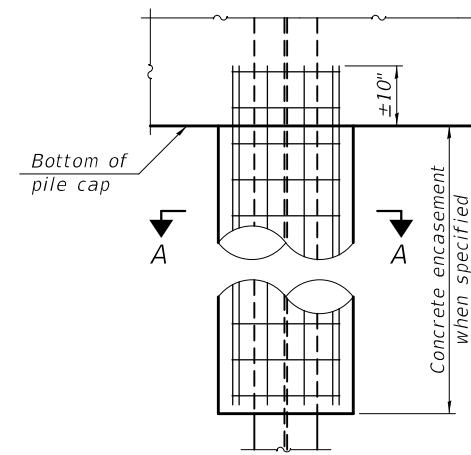
WELDED COMMERCIAL SPLICE



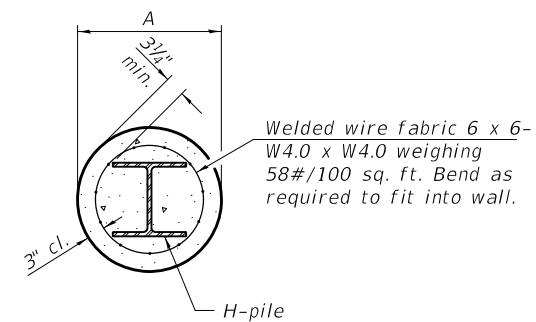
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

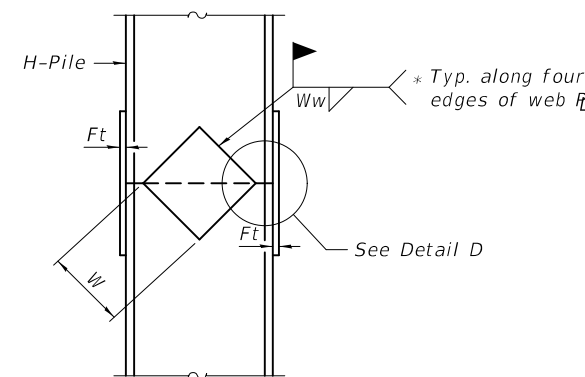


ELEVATION

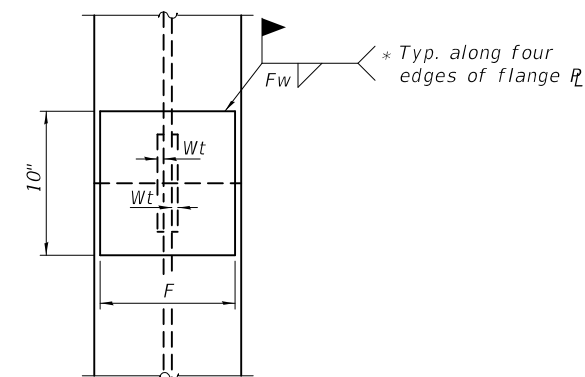


SECTION A-A

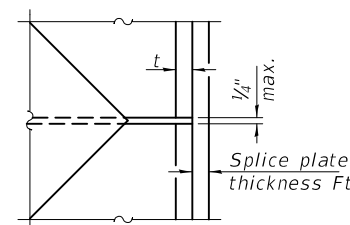
INDIVIDUAL PILE CONCRETE ENCASUREMENT
 (Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW

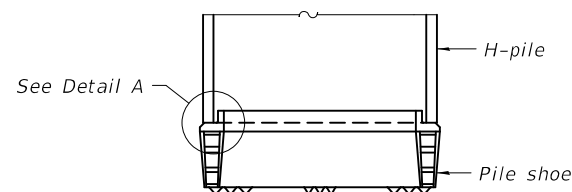


DETAIL D

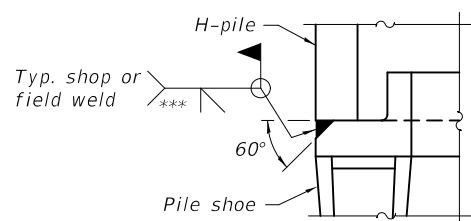
WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

ELEVATION



SHOE ATTACHMENT



DETAIL A

Note:
 The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 2-17-2017

DESIGNED - CORY D. KOLTVEIT	EXAMINED
CHECKED - H.I.D. / J.O.V.	PASSED
DRAWN - IAN J. ANDREWS	
CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.	

DATE - DECEMBER 7, 2017
 ENGINEER OF BRIDGES AND STRUCTURES
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS	
REVISIONS	
REVISIONS	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

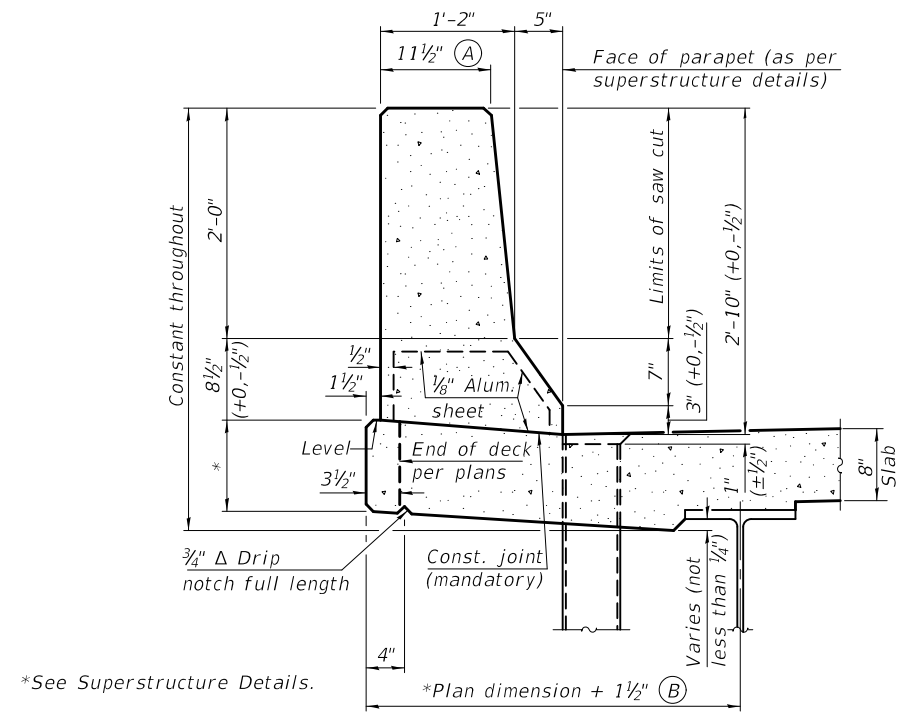
HP PILE DETAILS
 STRUCTURE NO. 060 - 0349

SHEET 23 OF 28 SHEETS

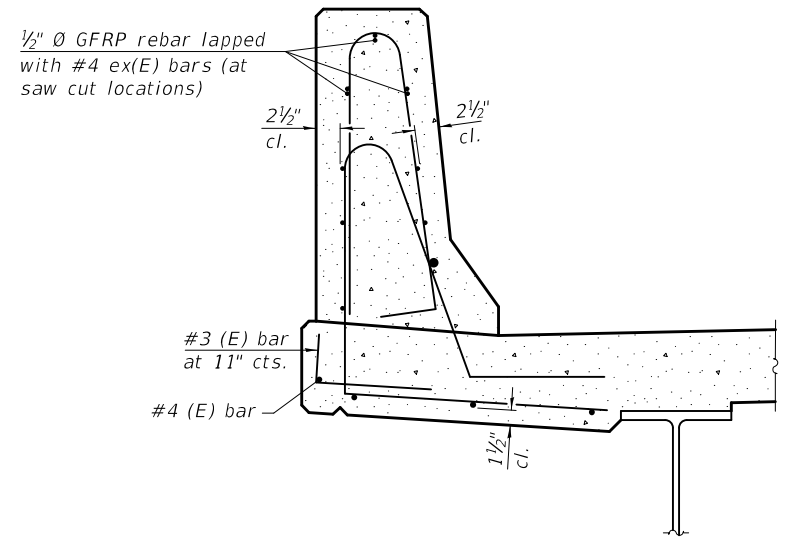
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	69
CONTRACT NO. 76G56				

ILLINOIS FED. AID PROJECT

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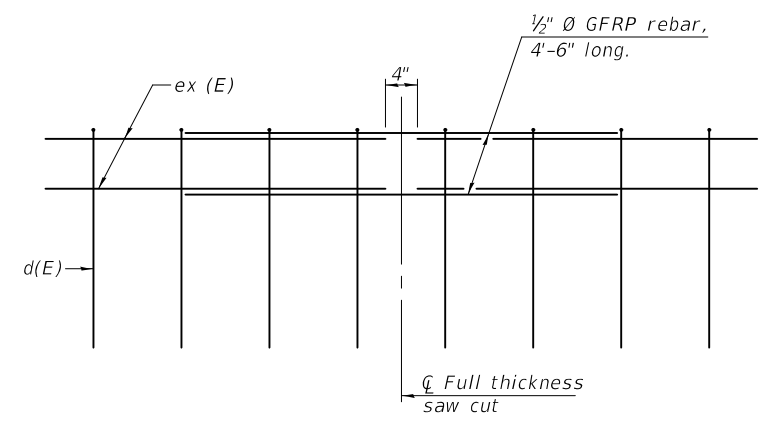


34" F SHAPE PARAPET SECTION
(Showing dimensions)

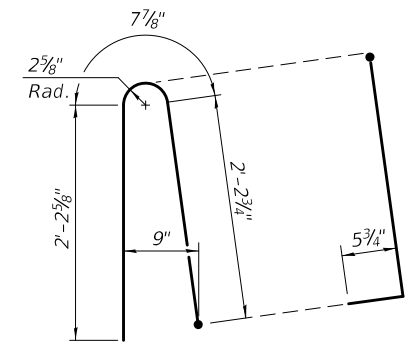


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

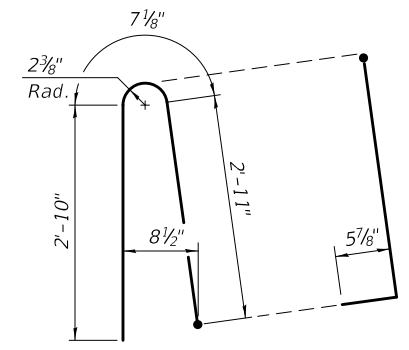
GENERAL NOTES
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.



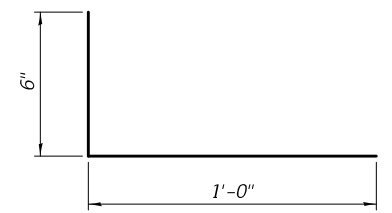
GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)



#3 (E) BAR

MODEL: 0600349-76G56-024
FILE NAME: p:\w\084EBID\INTEG\ilmds.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0600349\CADD Plans\0600349-76G56.dgn

SFP 34-42

2-17-2017

DESIGNED -	CORY D. KOLTVEIT
CHECKED -	H.I.D. / J.O.V.
DRAWN -	IAN J. ANDREWS
CHECKED -	C.D.K. / H.I.D. / J.O.V. / G.R.A.

EXAMINED	<i>Joanne F. Joffe</i>	DATE -	DECEMBER 7, 2017
PASSED	<i>Carl Ringer</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 060 - 0349**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	70
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

SHEET 24 OF 28 SHEETS

12/7/2017 8:56:09 AM



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3
Date 10/31/16

ROUTE FAP 789 DESCRIPTION IL 143 over Indian Creek LOGGED BY DDI (TSI)

SECTION 125B-1 LOCATION NW 1/4, SEC. 31, TWP. 5N, RNG. 8W, 3rd P.M.

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0082 (E) / 060-0349 (P)
Station _____
BORING NO. SB 2 E Pier
Station 238+13
Offset 22.00ft Right
Ground Surface Elev. 455.0 ft

DEPTH (ft)	BLOWS (/6")	UNSATURATED (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNSATURATED (tsf)	MOISTURE (%)
0				Portland Cement Concrete	0			
454.50				Empty Space between Bridge Deck and Ground Surface	454.50			
446.50				Brown and Gray Silty Clay LOAM with Trace Wood Fragments A-6(11) See Class @ 16.5 ft (continued) Trace Sand	446.50			
442.00				Greenish Gray CLAY with Trace Sand	442.00			
442.00				Gray Silty CLAY with Trace Sand	442.00			
442.00				Gray CLAY with Trace Organics and Shells	442.00			
442.00				Gray and Maroon	442.00			
442.00				Brown and Gray	442.00			
442.00				Brown and Gray Clay LOAM with Trace Gravel and Organics	442.00			
442.00				Brown and Gray Fine to Medium SAND	442.00			
442.00				Brown and Gray CLAY	442.00			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 3
Date 10/31/16

ROUTE FAP 789 DESCRIPTION IL 143 over Indian Creek LOGGED BY DDI (TSI)

SECTION 125B-1 LOCATION NW 1/4, SEC. 31, TWP. 5N, RNG. 8W, 3rd P.M.

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0082 (E) / 060-0349 (P)
Station _____
BORING NO. SB 2 E Pier
Station 238+13
Offset 22.00ft Right
Ground Surface Elev. 455.0 ft

DEPTH (ft)	BLOWS (/6")	UNSATURATED (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNSATURATED (tsf)	MOISTURE (%)
413.00				Brown and Gray CLAY (continued)	413.00			
411.00				Brown Sandy LOAM with Trace Gravel	411.00			
408.00				Brown CLAY	408.00			
405.50				Brown and Gray Loamy SAND with Trace Gravel, Organics, and Shells	405.50			
402.00				Gray Clay LOAM with Trace Gravel	402.00			
396.80				Gray CLAY with Trace Sand, Gravel, Wood, and Shale Fragments	396.80			
396.30				Gray Weathered SHALE	396.30			
385.83				Borehole continued with rock coring.	385.83			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 3 of 3
Date 10/31/16

ROUTE FAP 789 DESCRIPTION IL 143 over Indian Creek LOGGED BY DDI (TSI)

SECTION 125B-1 LOCATION NW 1/4, SEC. 31, TWP. 5N, RNG. 8W, 3rd P.M.

COUNTY Madison CORING METHOD _____

STRUCT. NO. 060-0082 (E) / 060-0349 (P)
Station _____
BORING NO. SB 2 E Pier
Station 238+13
Offset 22.00ft Right
Ground Surface Elev. 455.0 ft

DEPTH (ft)	CORING METHOD	RECOVERY (%)	QUALITY (%)	CORE DIAMETER (in)	TOP OF ROCK ELEV. (ft)	BEGIN CORE ELEV. (ft)	SOIL DESCRIPTION	DEPTH (ft)	RECOVERY (%)	QUALITY (%)	CORE DIAMETER (in)	TOP OF ROCK ELEV. (ft)	BEGIN CORE ELEV. (ft)
396.30				1.8	396.30	396.00	Greenish Gray (Moderately Hard, Banded to Medium Bedded) Slightly Weathered SHALE	396.30	100	87	6	396.30	396.00
394.75				1.8	394.75	394.00	Greenish Gray (Moderately Hard, Banded to Fine Bedded, Fossilized) Moderately to Highly Weathered Interbedded SHALE and LIMESTONE	394.75	100	62	4	394.75	394.00
391.79				1.8	391.79	391.00	Gray (Moderately Hard to Hard, Thick Bedded, Fossilized) Slightly to Moderately Weathered LIMESTONE 2" Green Shale Seam	391.79	100	62	2	391.79	391.00
390.96				1.8	390.96	390.00	0.5" Green Shale Seam Dark Gray and Green (Moderately Hard, Banded to Thin Bedded, Fissile/Laminated) Highly Weathered SHALE	390.96	100	62	2	390.96	390.00
389.25				1.8	389.25	388.50	Gray (Moderately Hard, Thin to Medium Bedded) Slightly to Moderately Weathered LIMESTONE 2" Vertical Fracture	389.25	100	66	5	389.25	388.50
385.83				1.8	385.83	385.00	Dark Brown and Black (Soft to Moderately Hard, Banded to Medium Bedded, Fissile) Slightly to Moderately Weathered SHALE	385.83	100	66	4	385.83	385.00
385.83				1.8	385.83	385.00	END OF BORING AND ROCK CORE	385.83	100	66	3	385.83	385.00

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

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DESIGNED - CORY D. KOLTVEIT	EXAMINED - <i>Joanne F. Jaffe</i>	DATE - DECEMBER 7, 2017
CHECKED - H.I.D. / J.O.V.	PASSED - <i>Carl Kopp</i>	REVISER -
DRAWN - IAN J. ANDREWS	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - C.D.K. / H.I.D. / J.O.V. / G.R.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

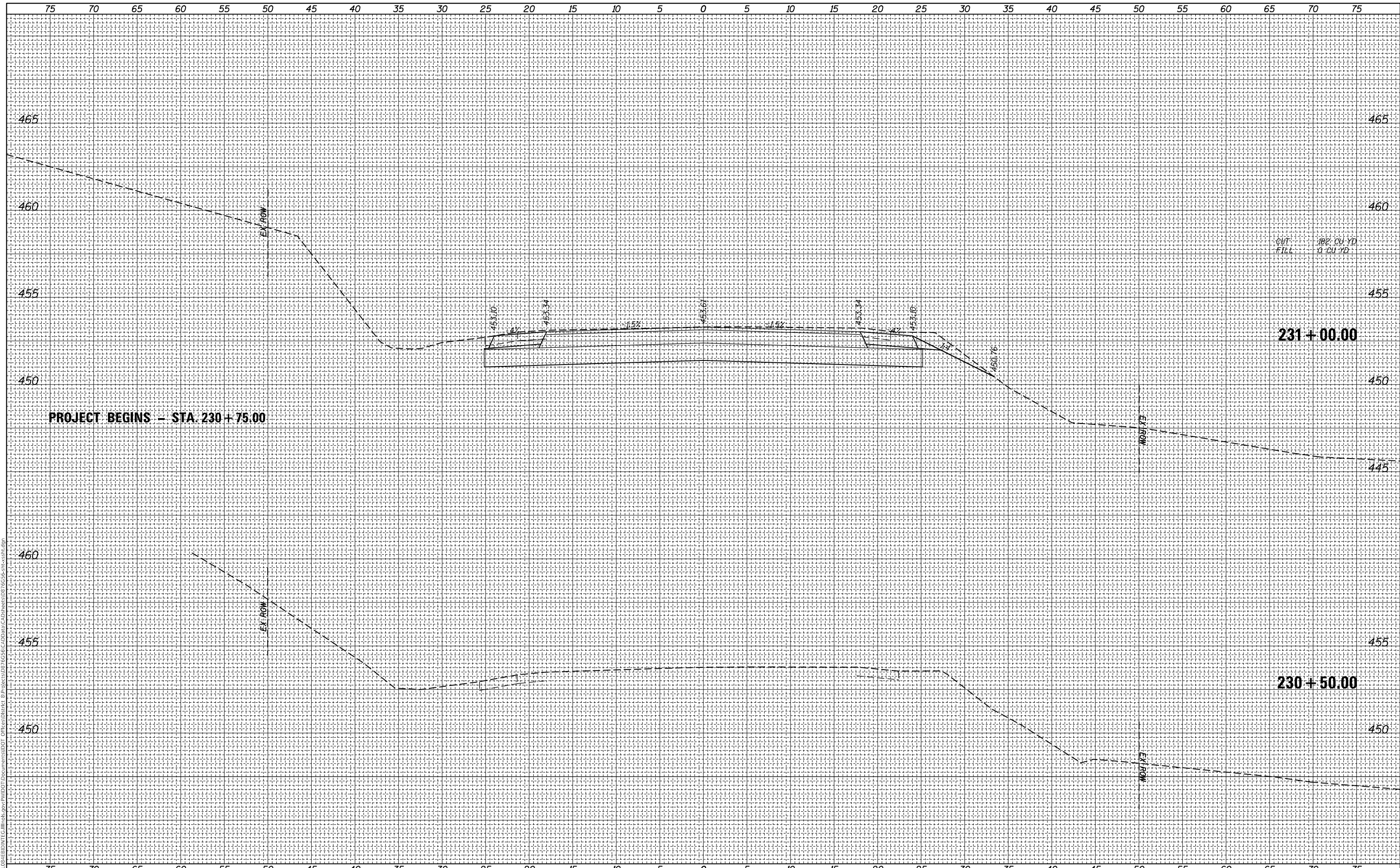
**SOIL BORING LOGS
STRUCTURE NO. 060 - 0349**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	72
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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DESIGNED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 230+50.00	TO STA. 231+00.00
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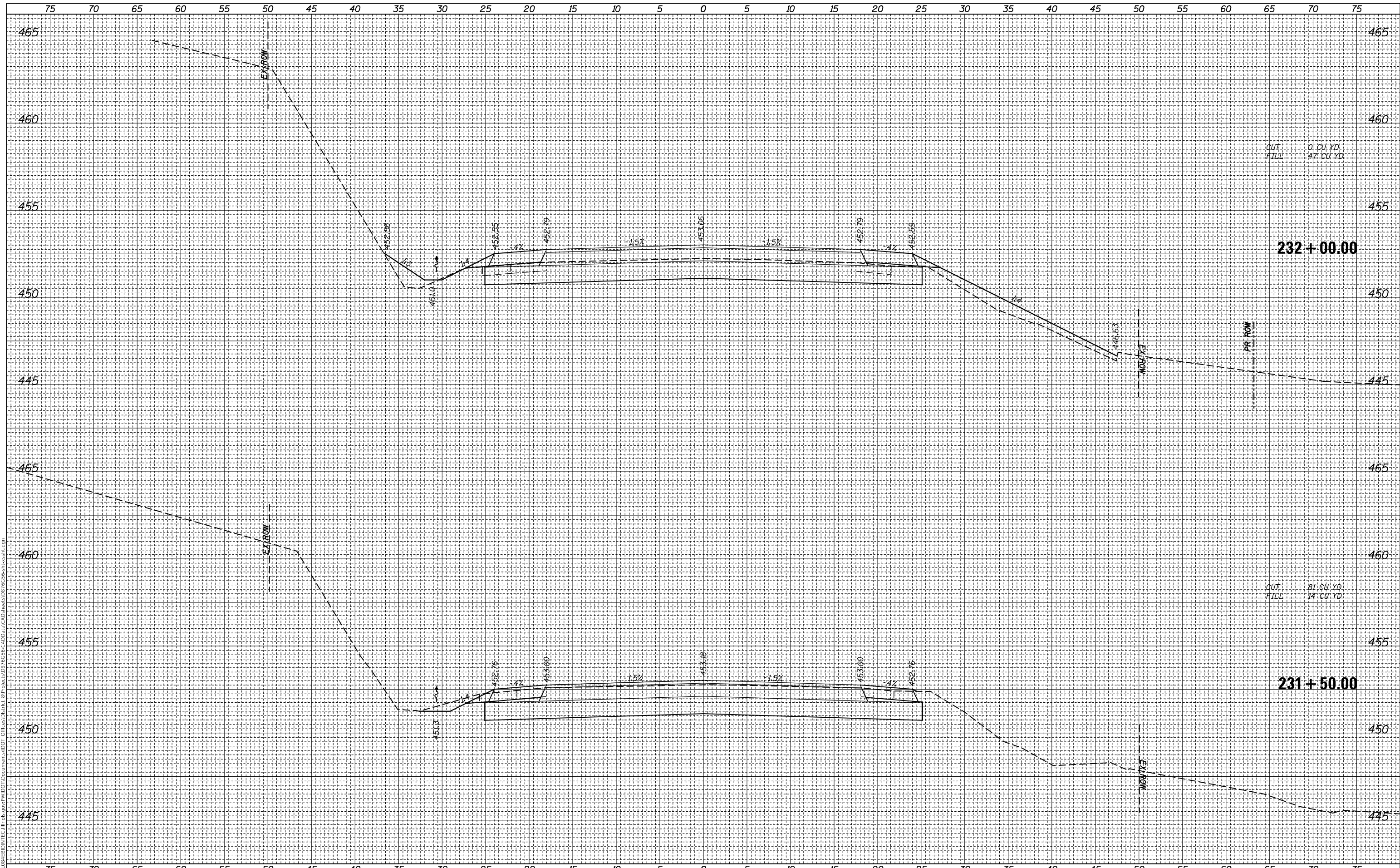
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 IL 143**

F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 75
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

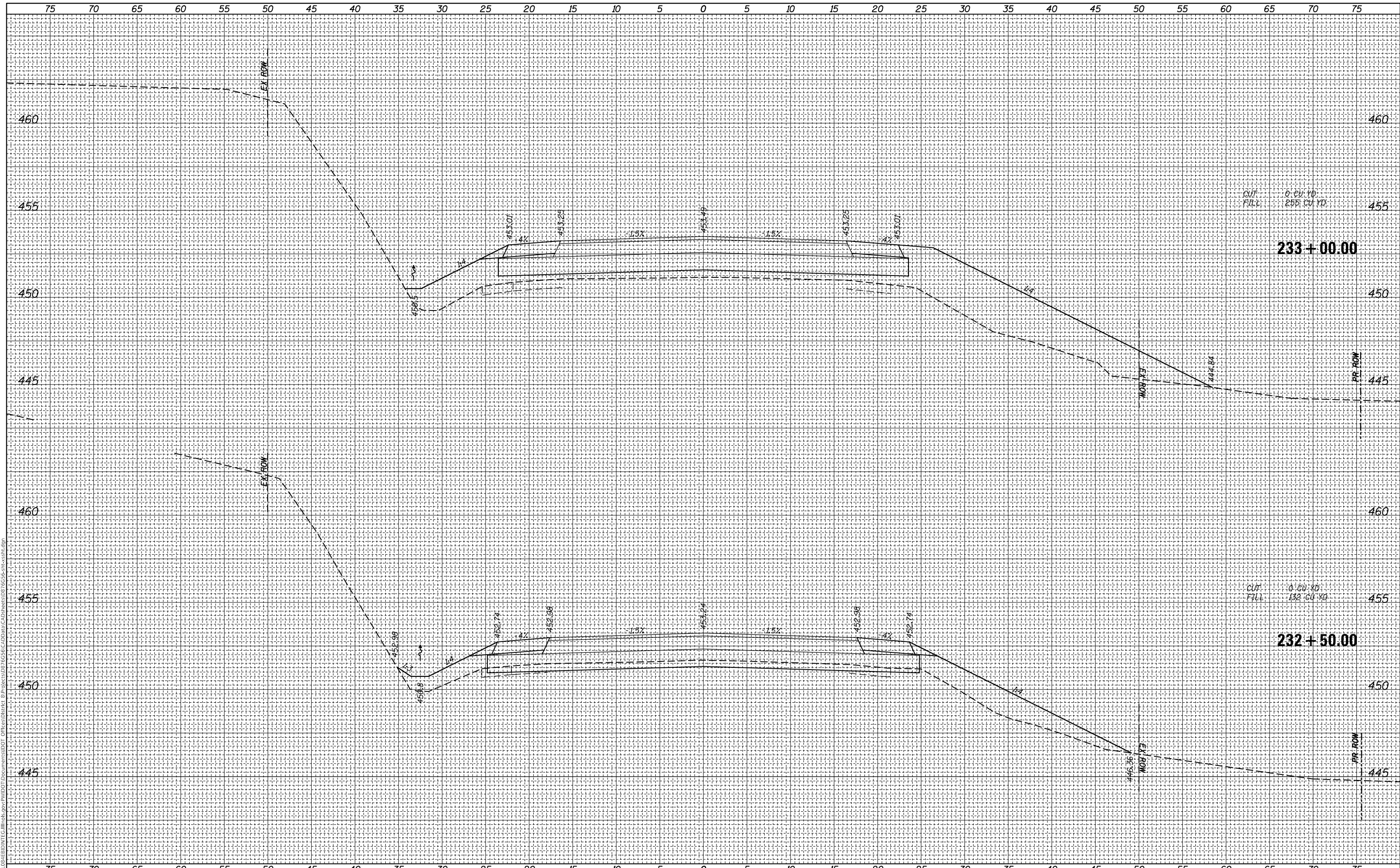
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				CONTRACT NO. 76G56
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED	DATE
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 143**

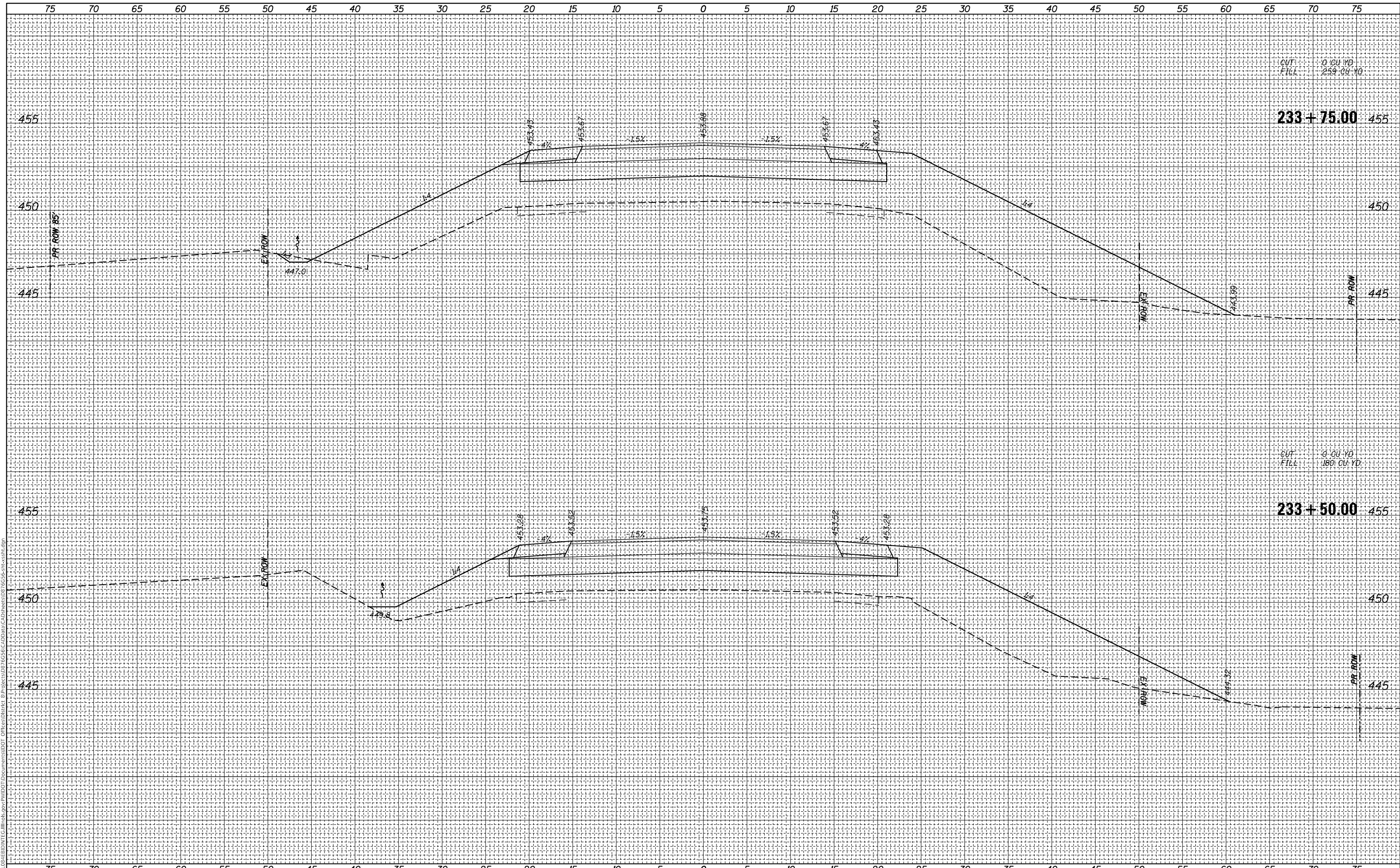
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CONTRACT NO. 76G56				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED	DATE
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 FILL 259 CU YD

233+75.00 455

CUT 0 CU YD
 FILL 180 CU YD

233+50.00 455

USER NAME = Burnsdeem
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DATE - 10/20/2017

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

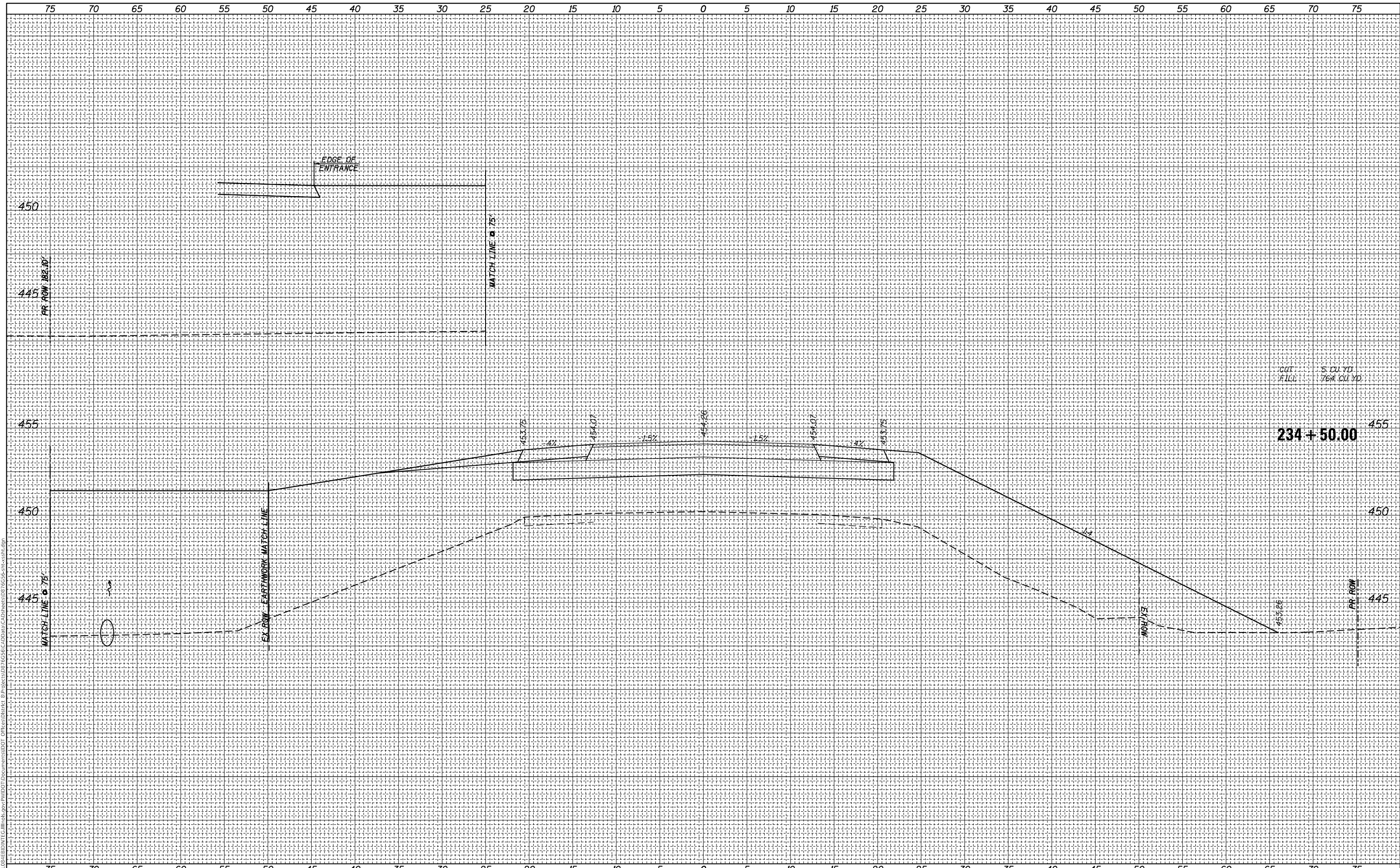
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G56	

FINAL SURVEY NO.	SURVEYED	BY	DATE
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

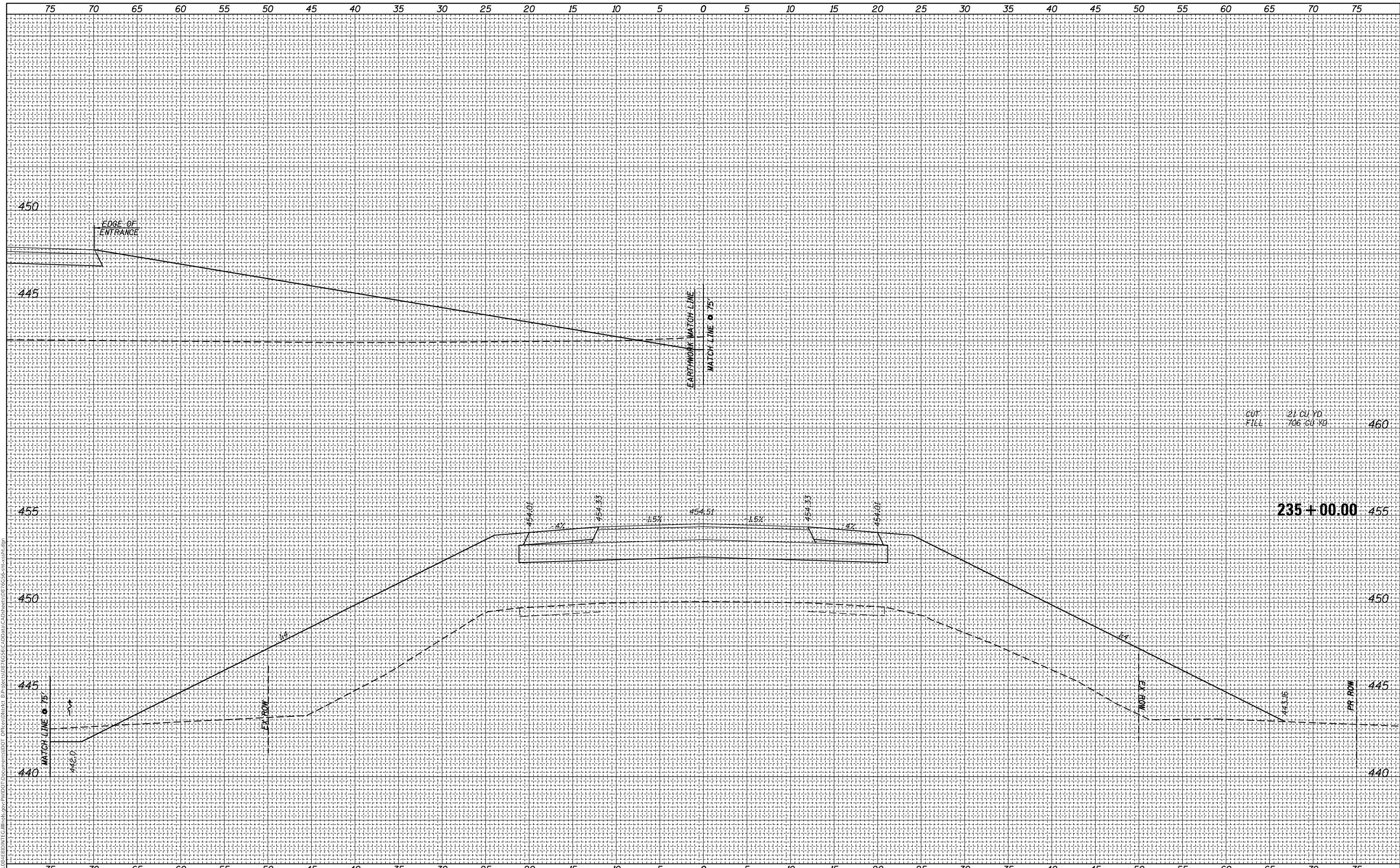
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789	125B-2	MADISON	101	80
CONTRACT NO. 76G56				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED	BY	DATE
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 143**

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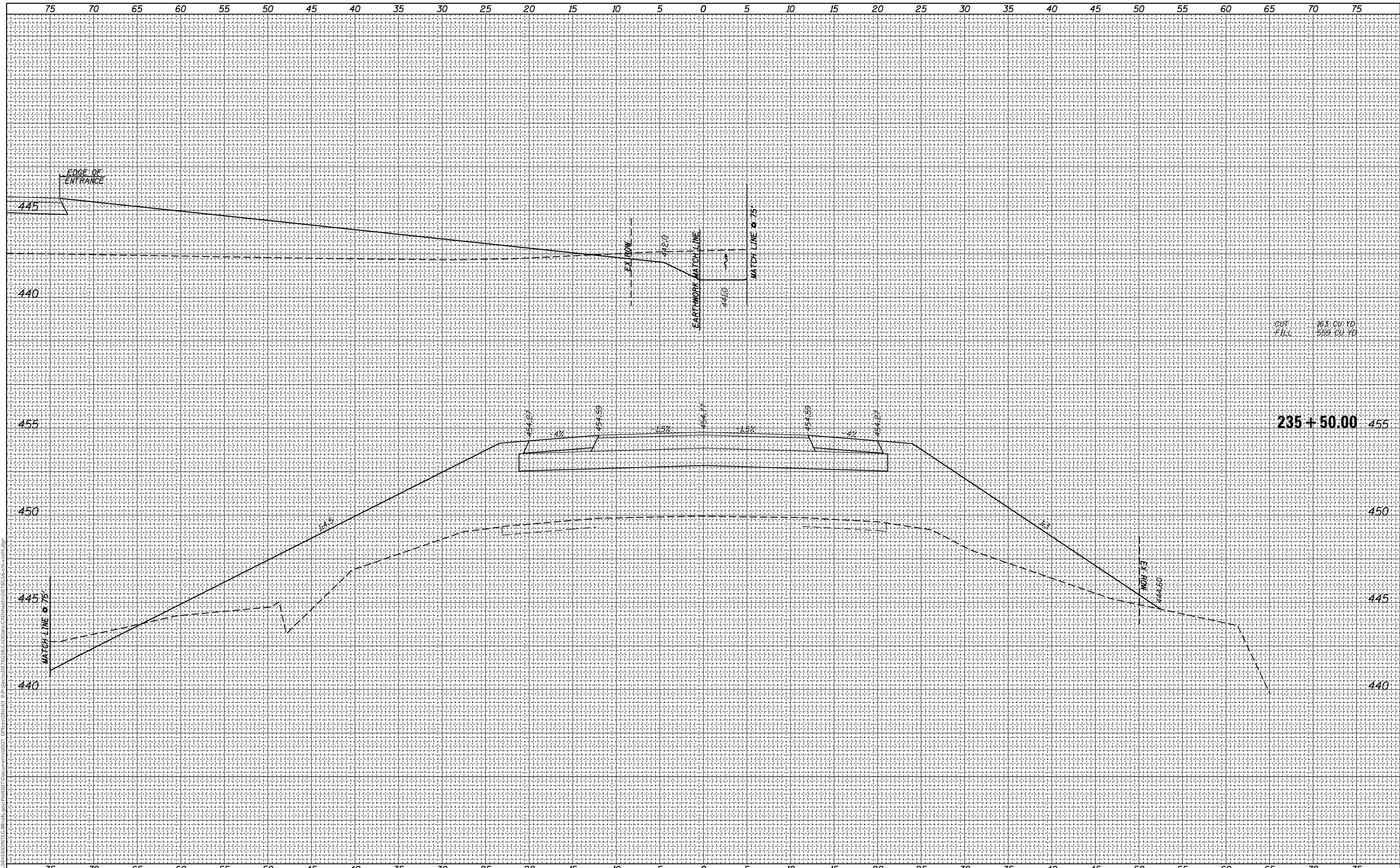
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	81
CONTRACT NO. 76G56				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED	DATE
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GUT
 FILL 163 CU. YD
 559 CU. YD

235 + 50.00 455

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

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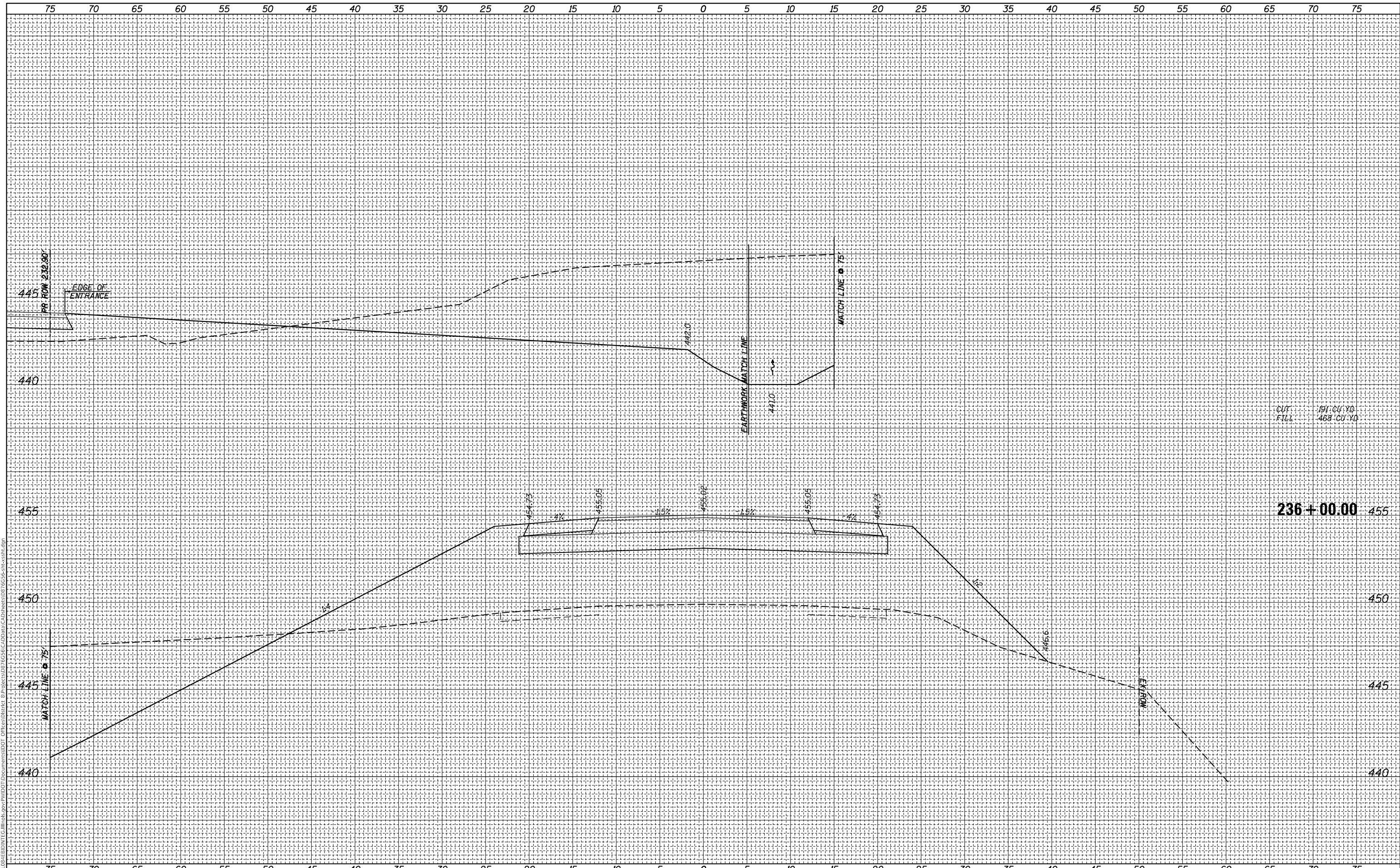
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CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
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236 + 00.00 455

450

445

440

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

**CROSS SECTIONS
 IL 143**

SCALE: SHEET OF SHEETS STA. 236+00.00 TO STA. 236+00.00

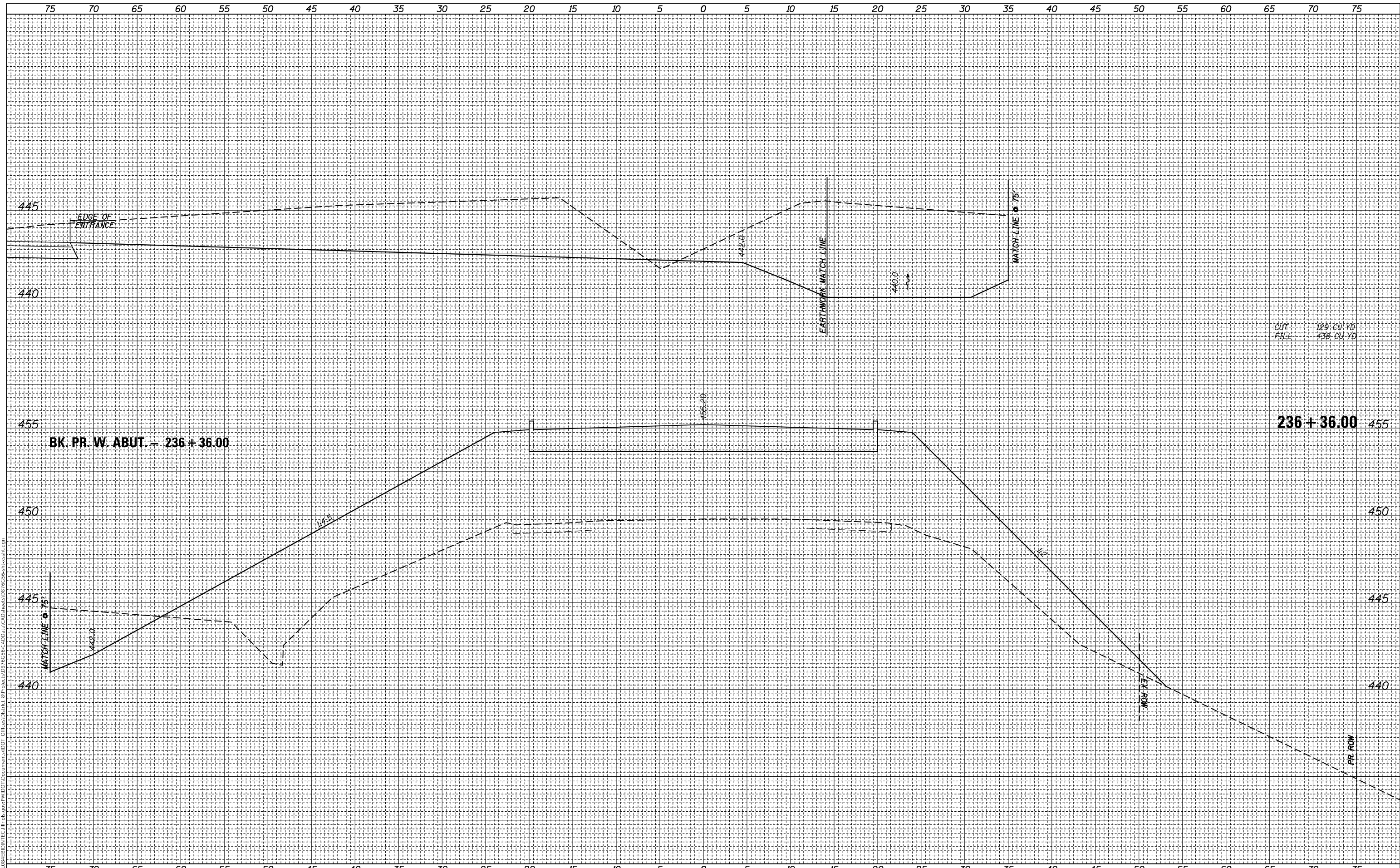
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	83
CONTRACT NO. 76G56				

ILLINOIS FED. AID PROJECT

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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CUT 129 CU YD
FILL 436 CU YD

236 + 36.00

USER NAME = BurnsIdeem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 143

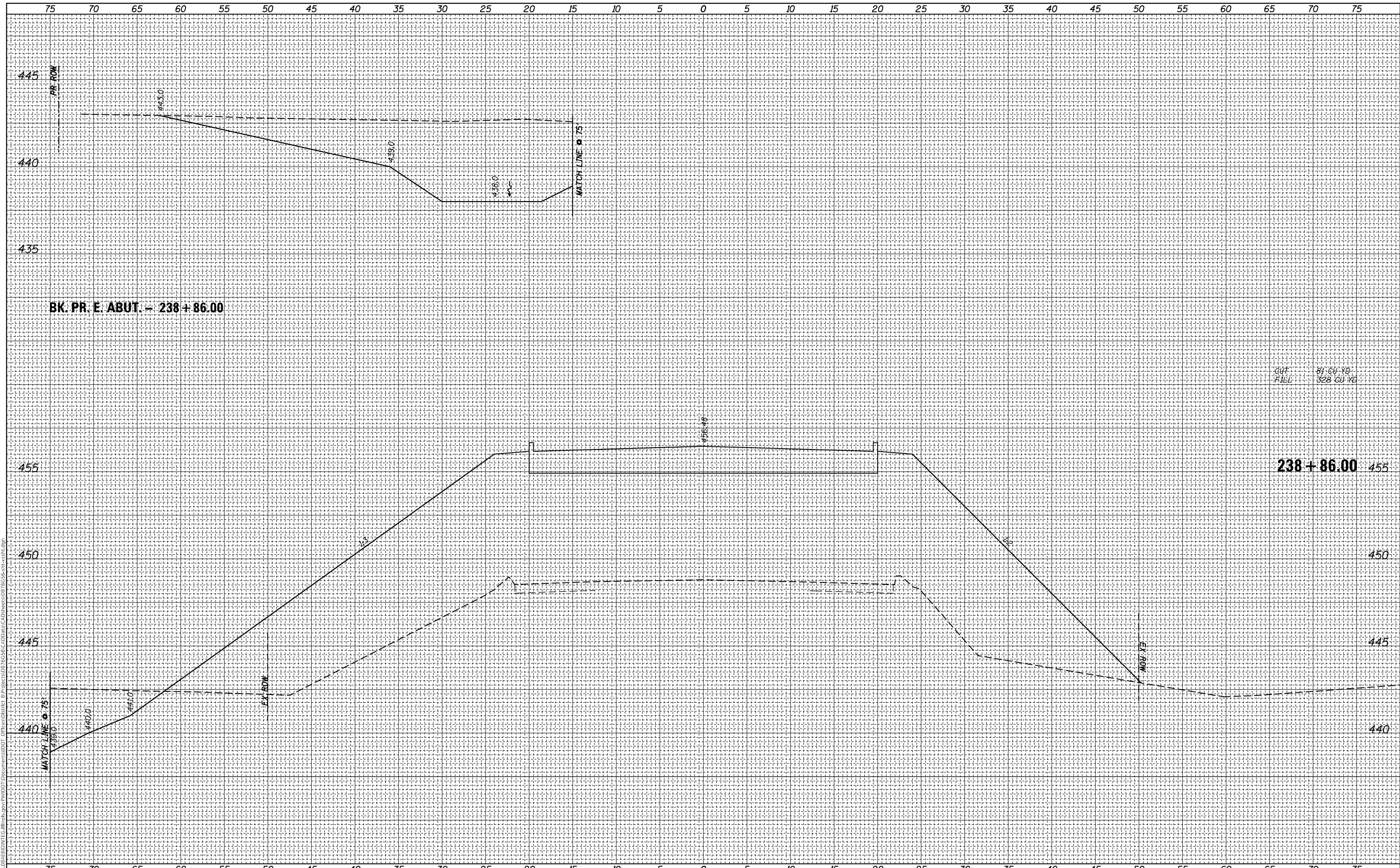
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	84
CONTRACT NO. 76G56				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	AREAS CHECKED		

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 143**

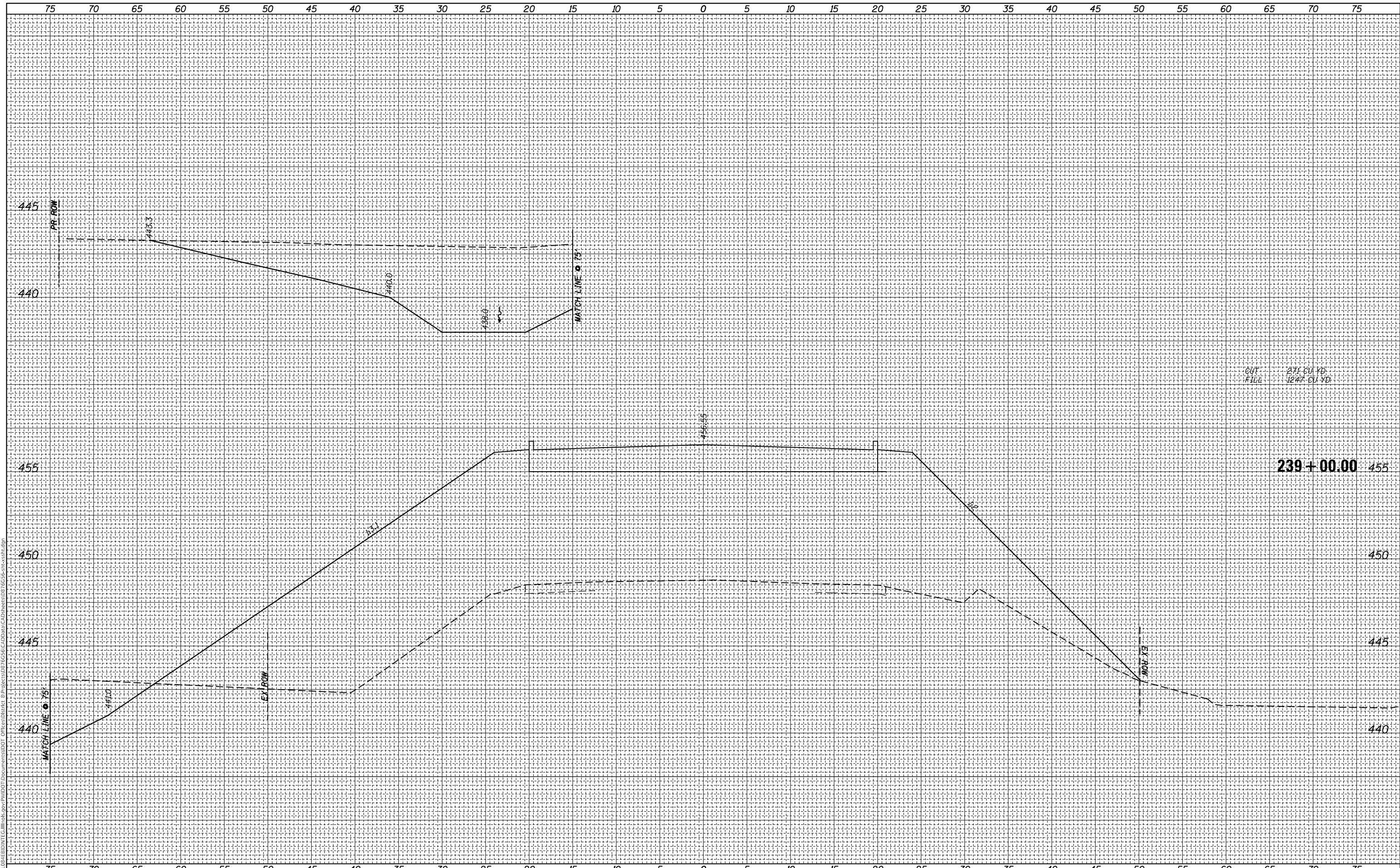
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	85
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

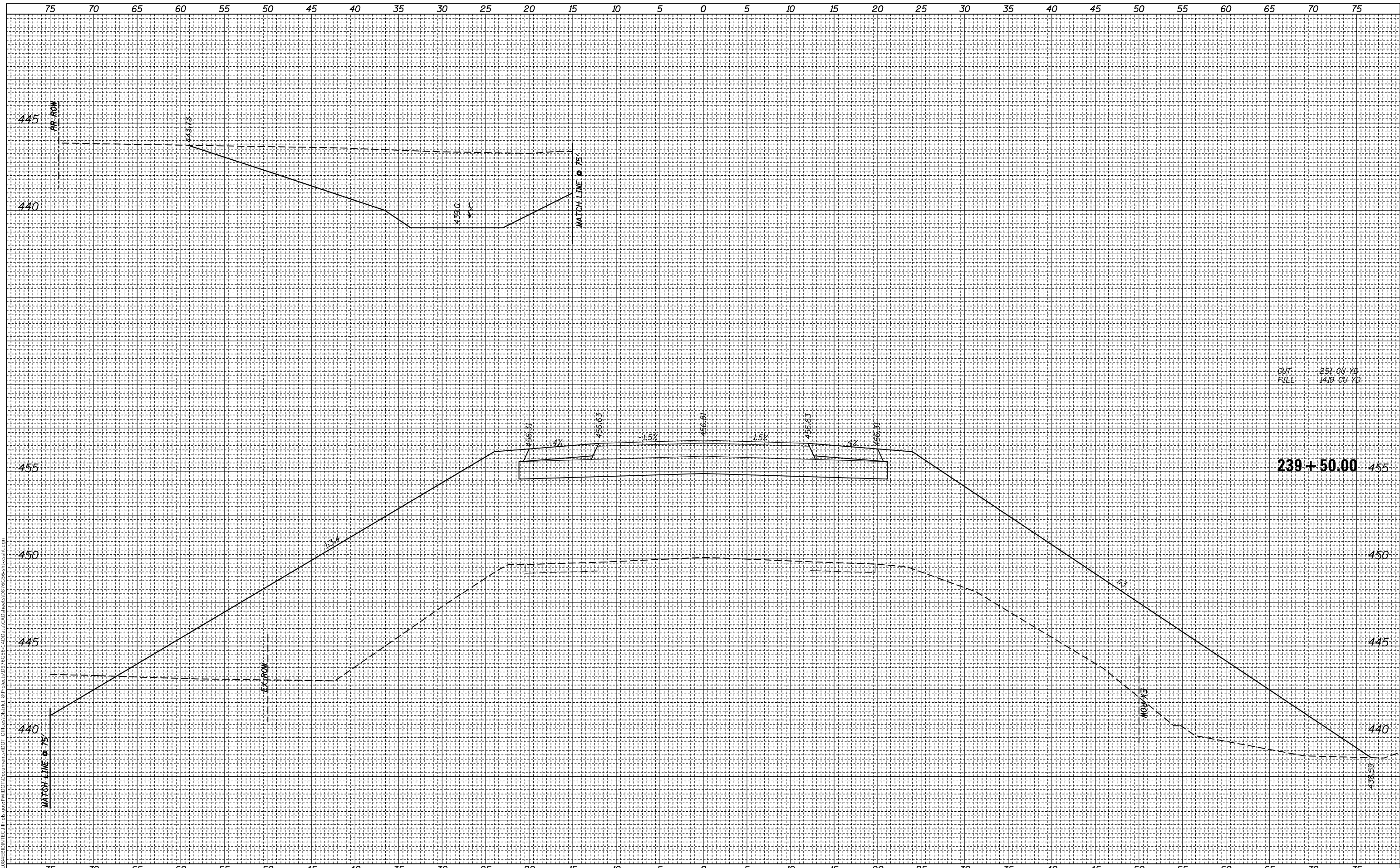
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	86
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

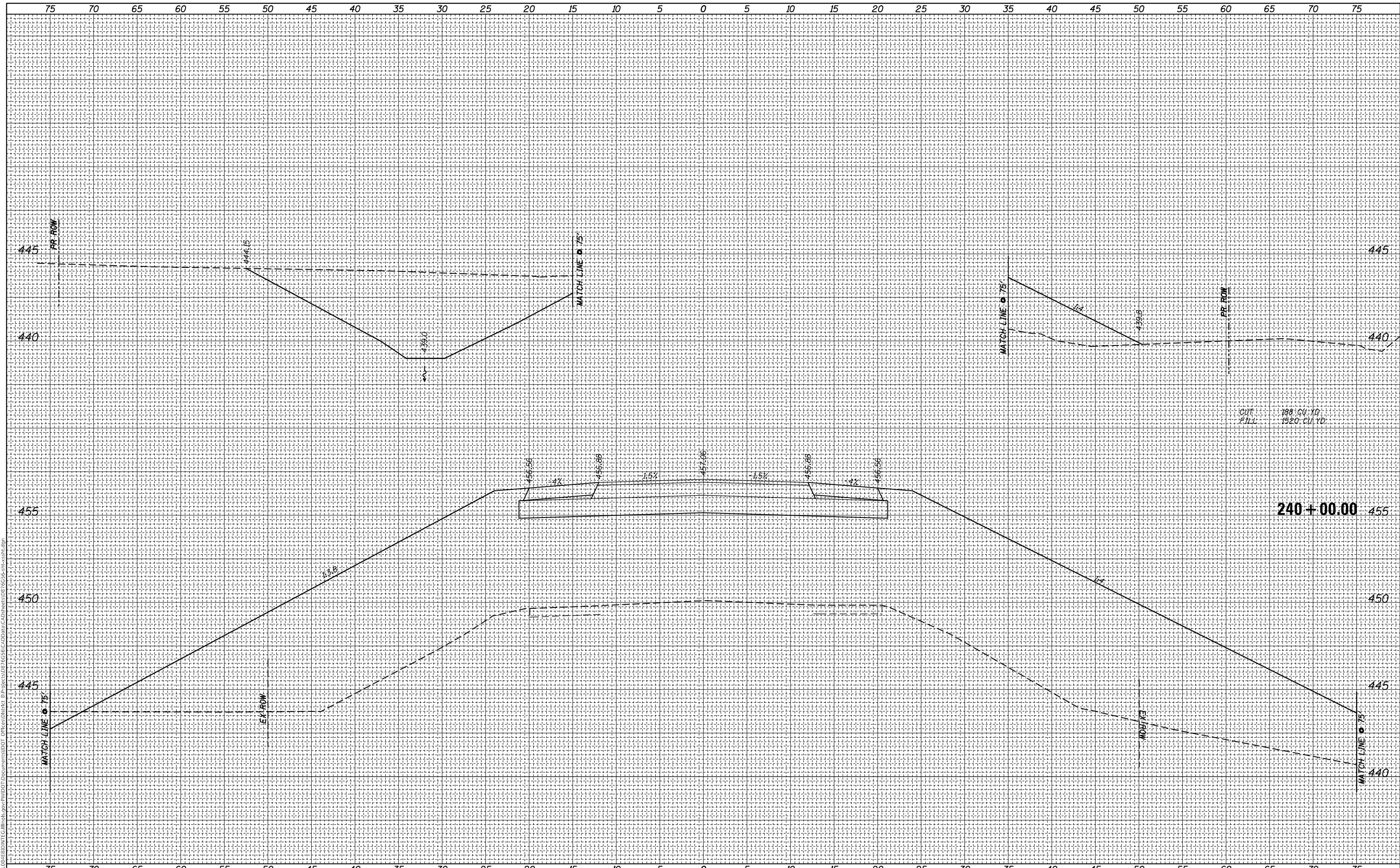
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	87
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 143**

SCALE: SHEET OF SHEETS STA. 240+00.00 TO STA. 240+00.00

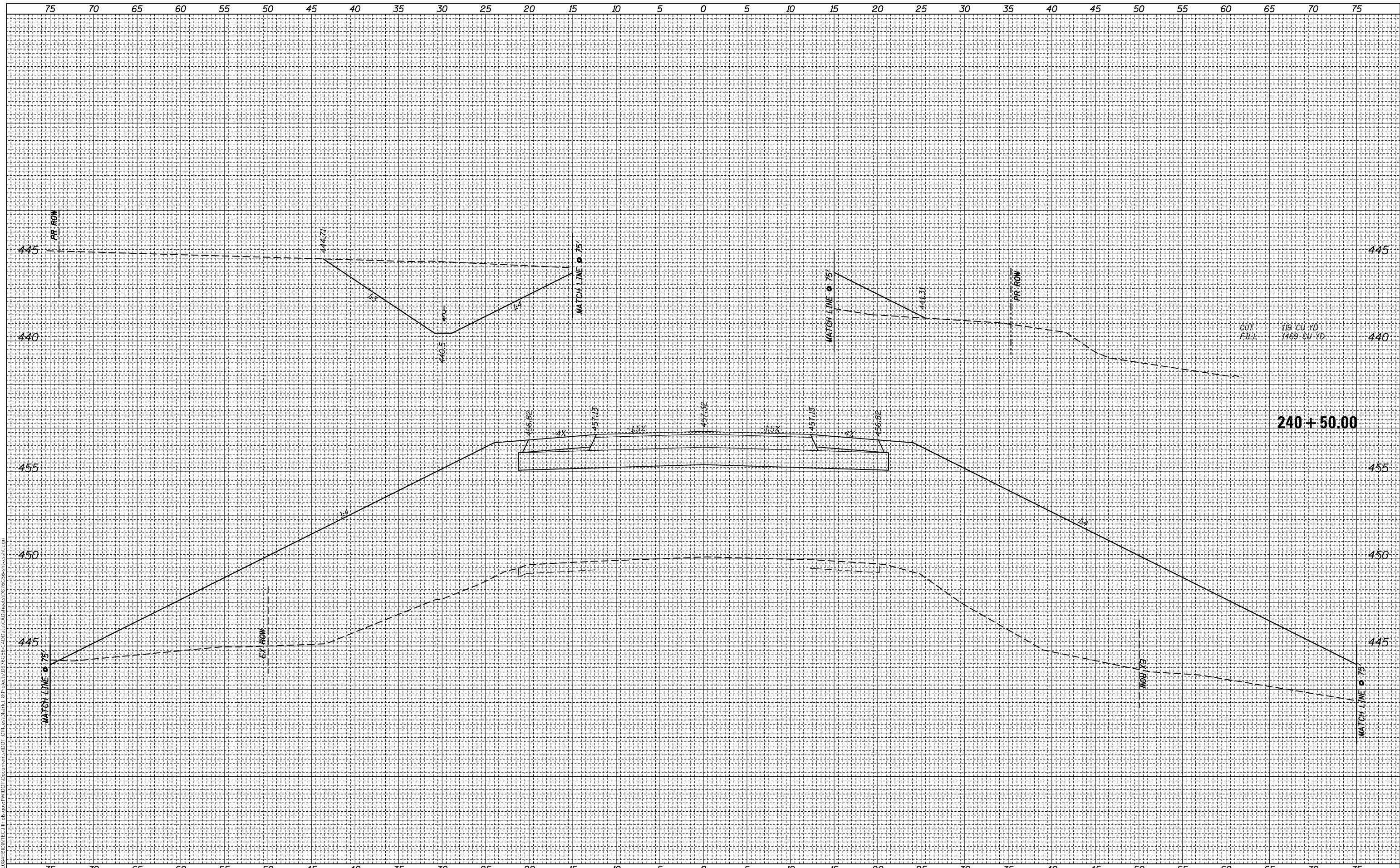
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	88
CONTRACT NO. 76G56				

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
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	AREAS CHECKED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 143

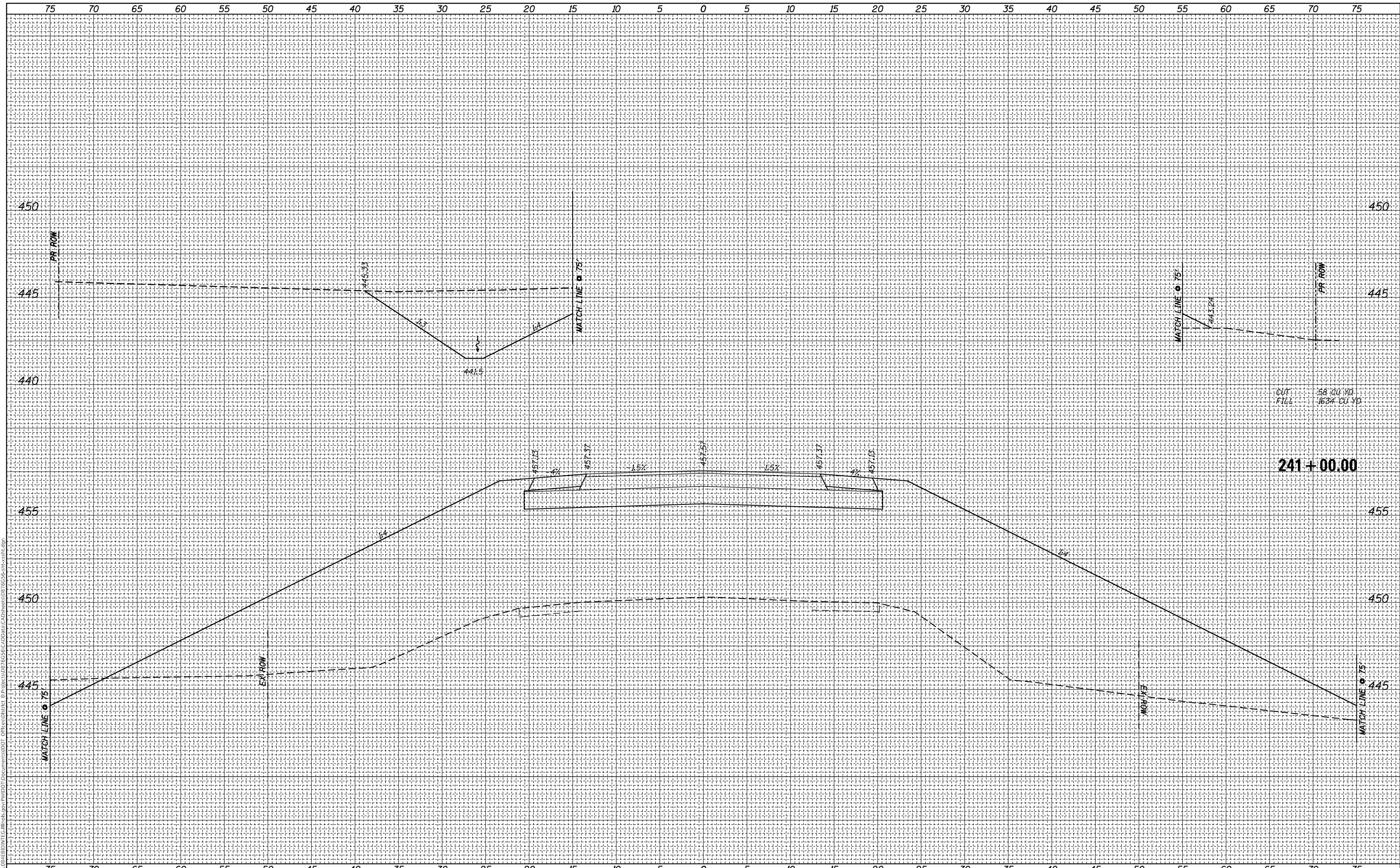
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	89
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
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AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

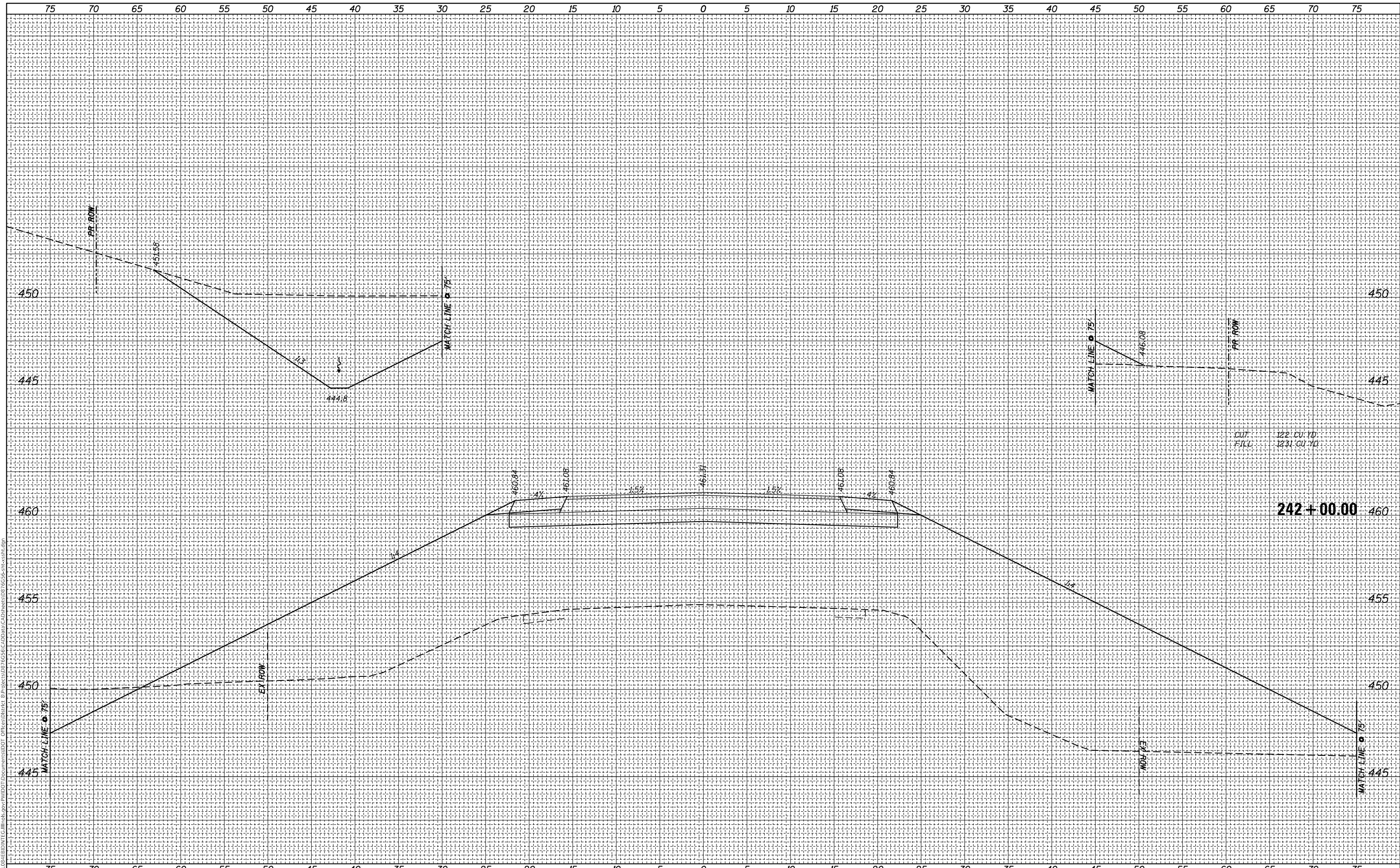
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789	1258-2	MADISON	101	90
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

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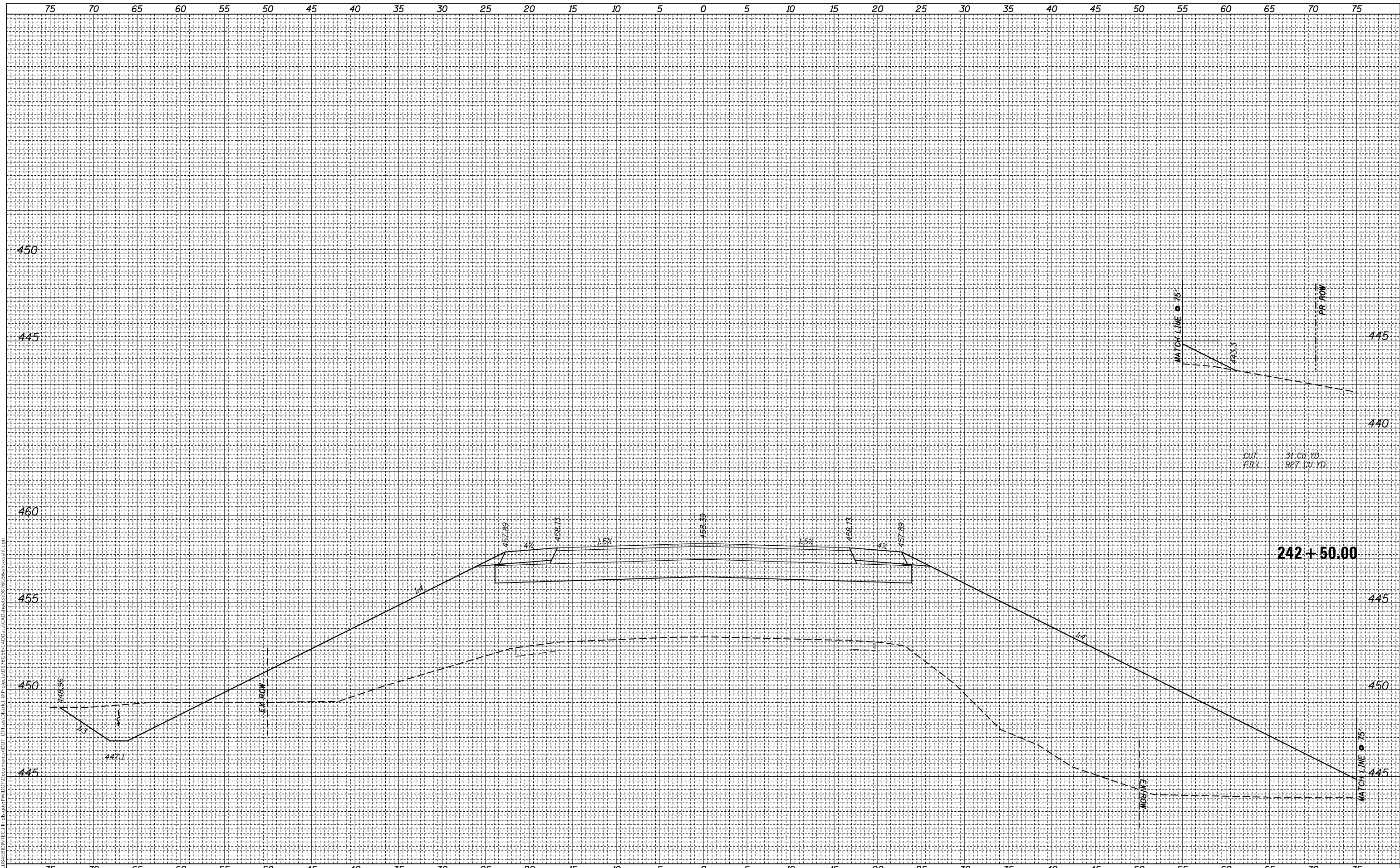
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789	1258-2	MADISON	101	92
				CONTRACT NO. 76G56
ILLINOIS		FED. AID PROJECT		

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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PLOT DATE = 10/20/2017

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 143

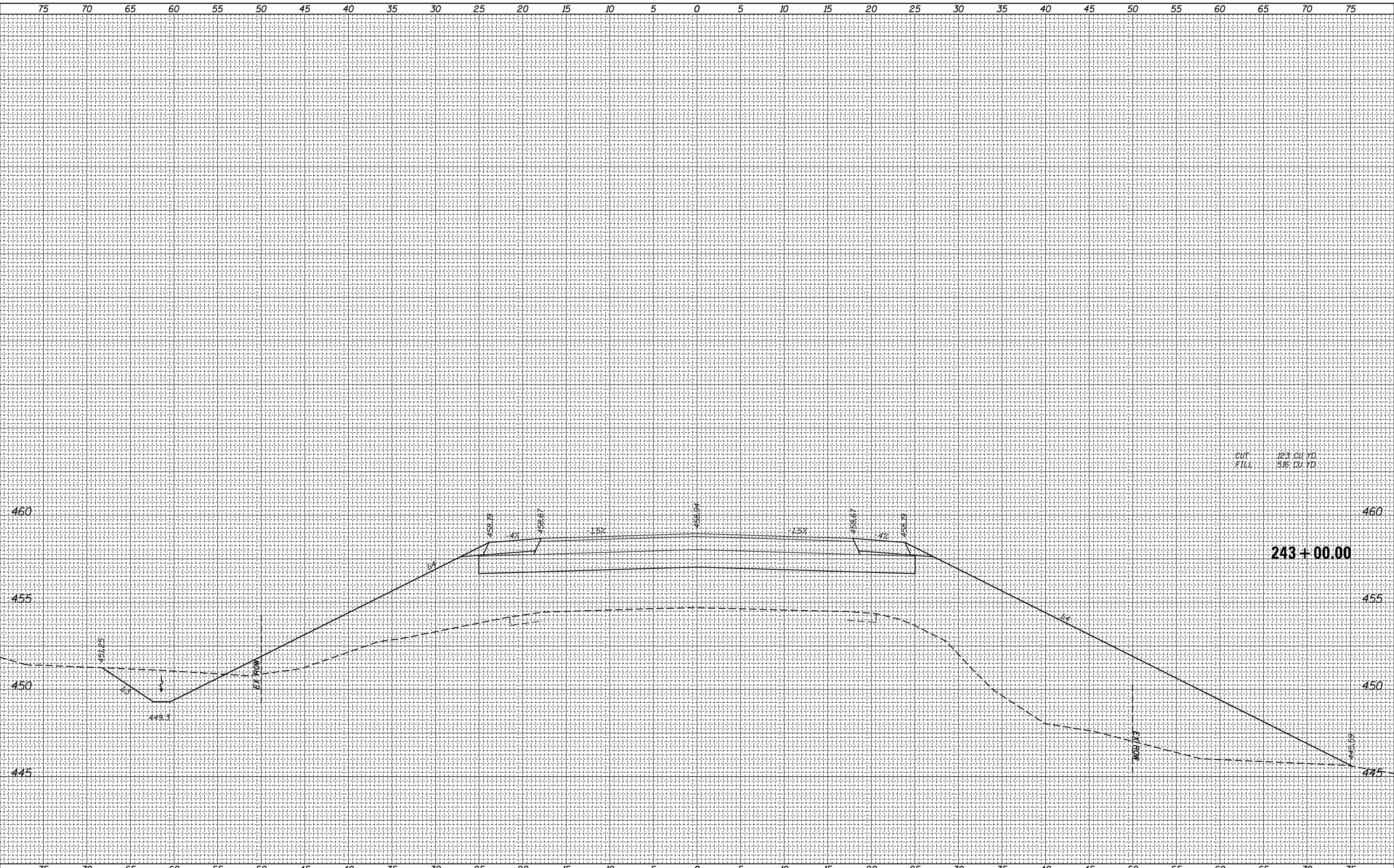
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F.A.P. RTE. 789	SECTION 1258-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 93
CONTRACT NO. 76G56			ILLINOIS FED. AID PROJECT	

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 143

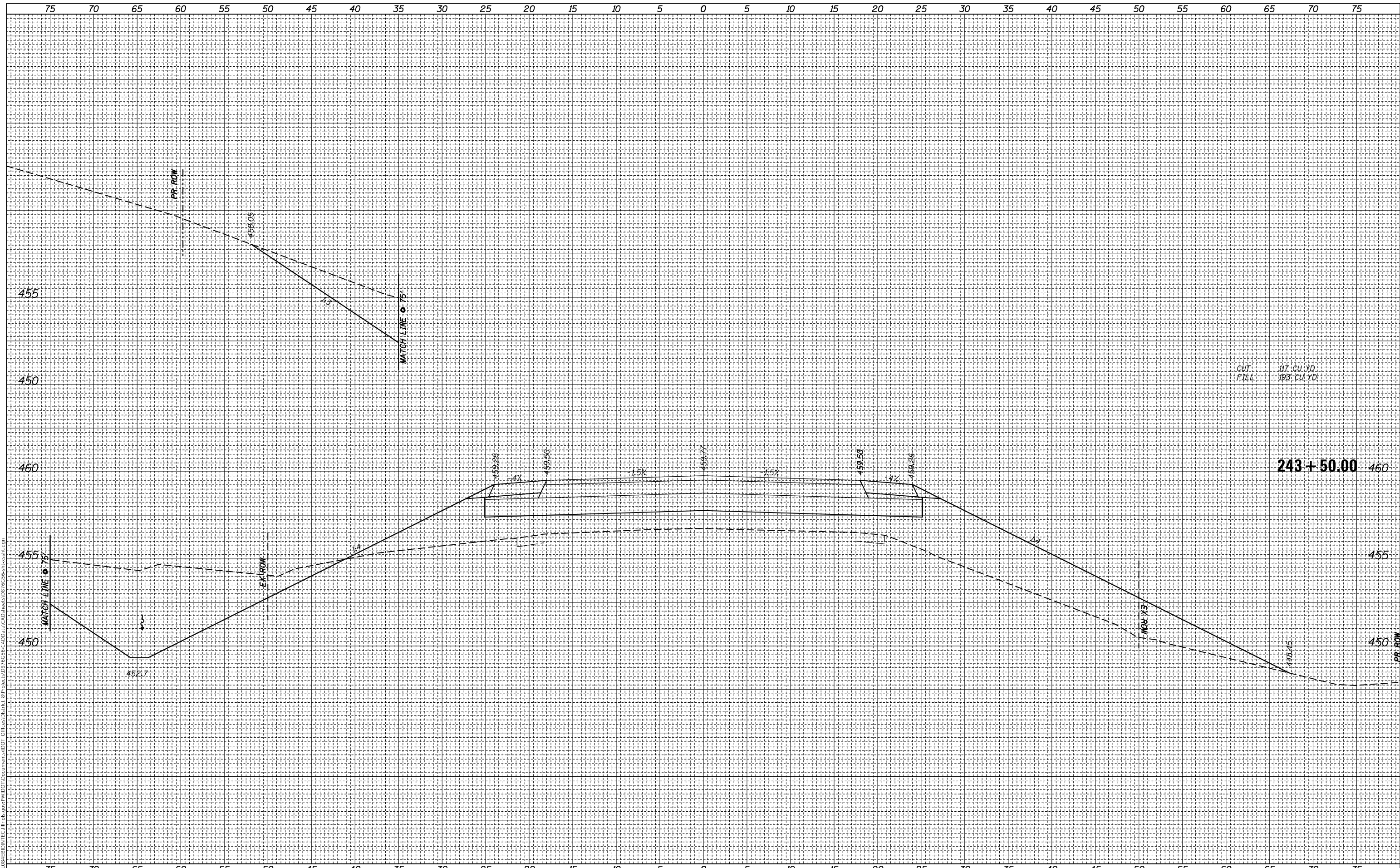
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	94
CONTRACT NO. 76G56				
ILLINOIS		FED. AID PROJECT		

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 143**

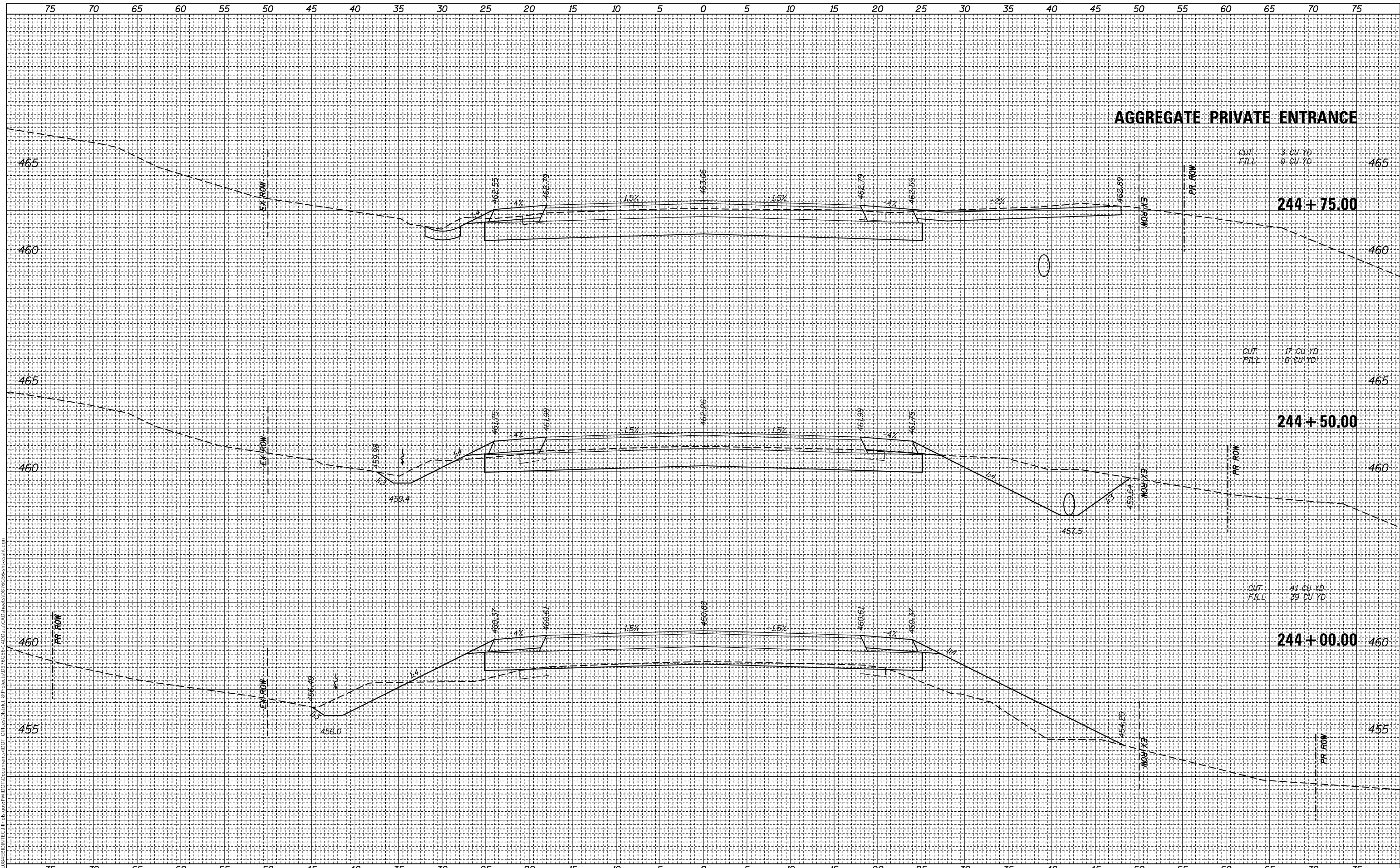
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F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 95
CONTRACT NO. 76G56				
ILLINOIS		FED. AID PROJECT		

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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AGGREGATE PRIVATE ENTRANCE

CUT 3 CU YD
 FILL 0 CU YD

244 + 75.00

CUT 17 CU YD
 FILL 0 CU YD

244 + 50.00

CUT 41 CU YD
 FILL 39 CU YD

244 + 00.00

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 143**

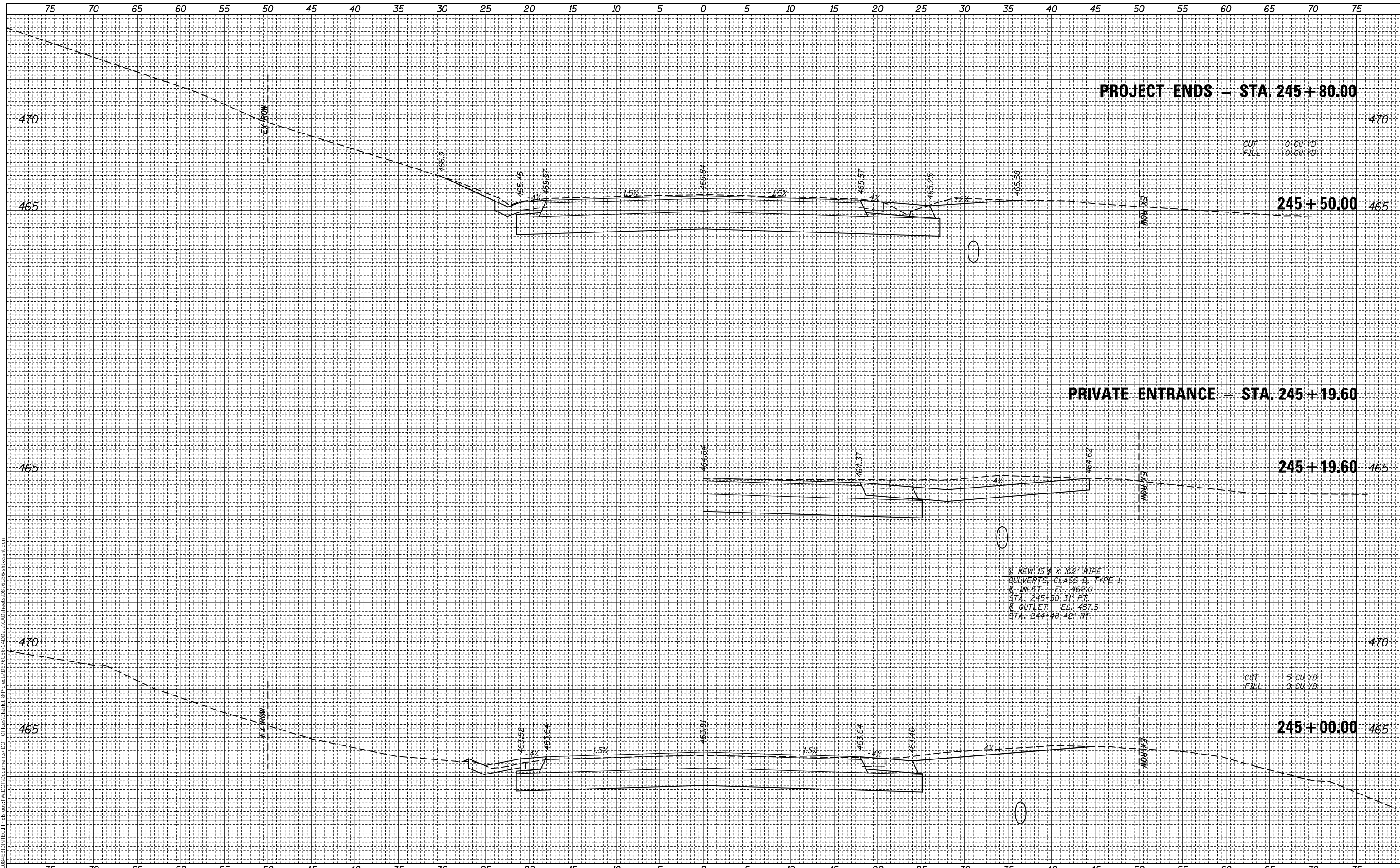
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789	1258-2	MADISON	101	96
				CONTRACT NO. 76G56
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET	OF	SHEETS	STA. 245+00.00	TO	STA. 245+50.00
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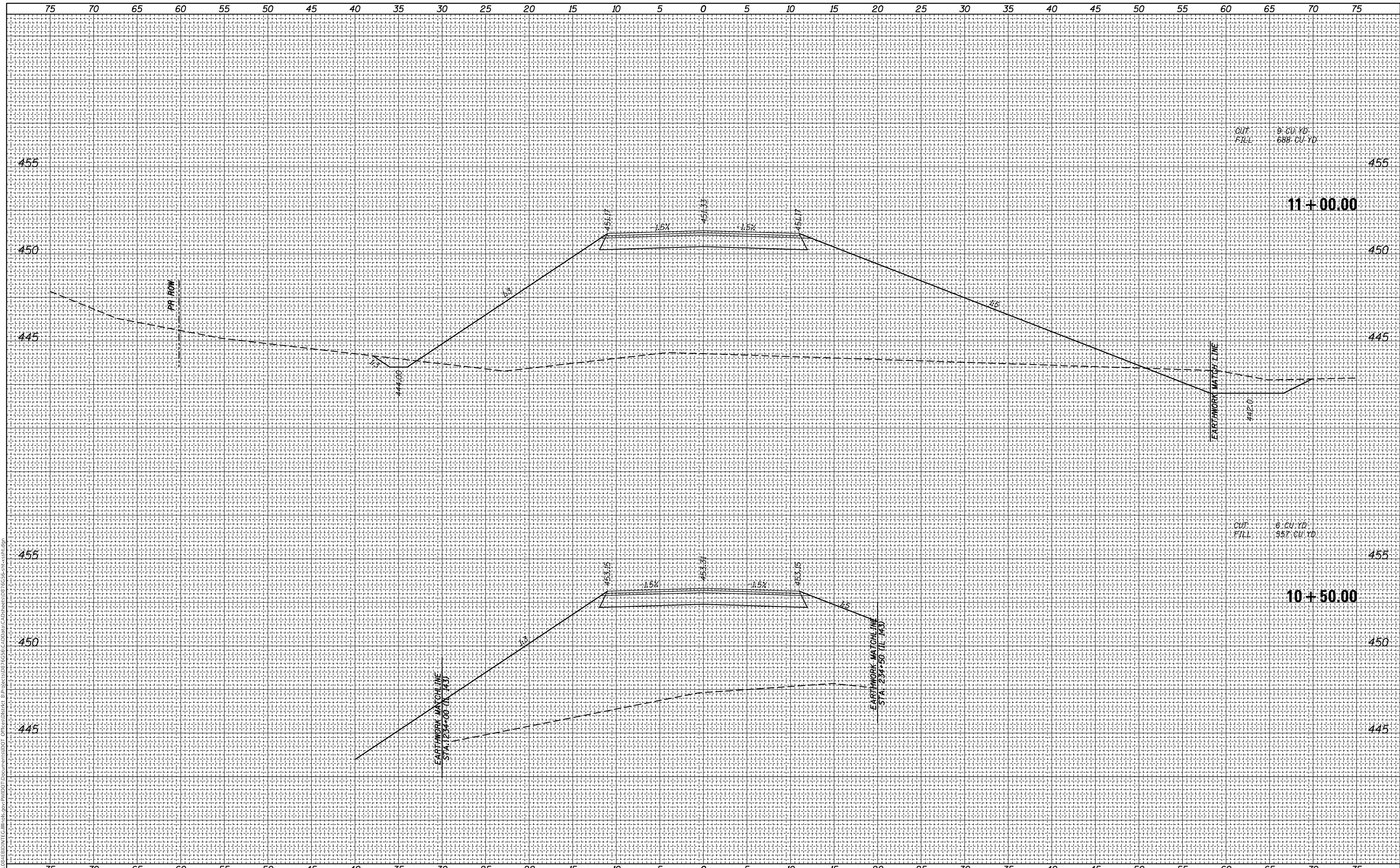
**CROSS SECTIONS
 IL 143**

F.A.P. RTE. 789	SECTION 125B-2	COUNTY MADISON	TOTAL SHEETS 101	SHEET NO. 97
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SERVICE ROAD

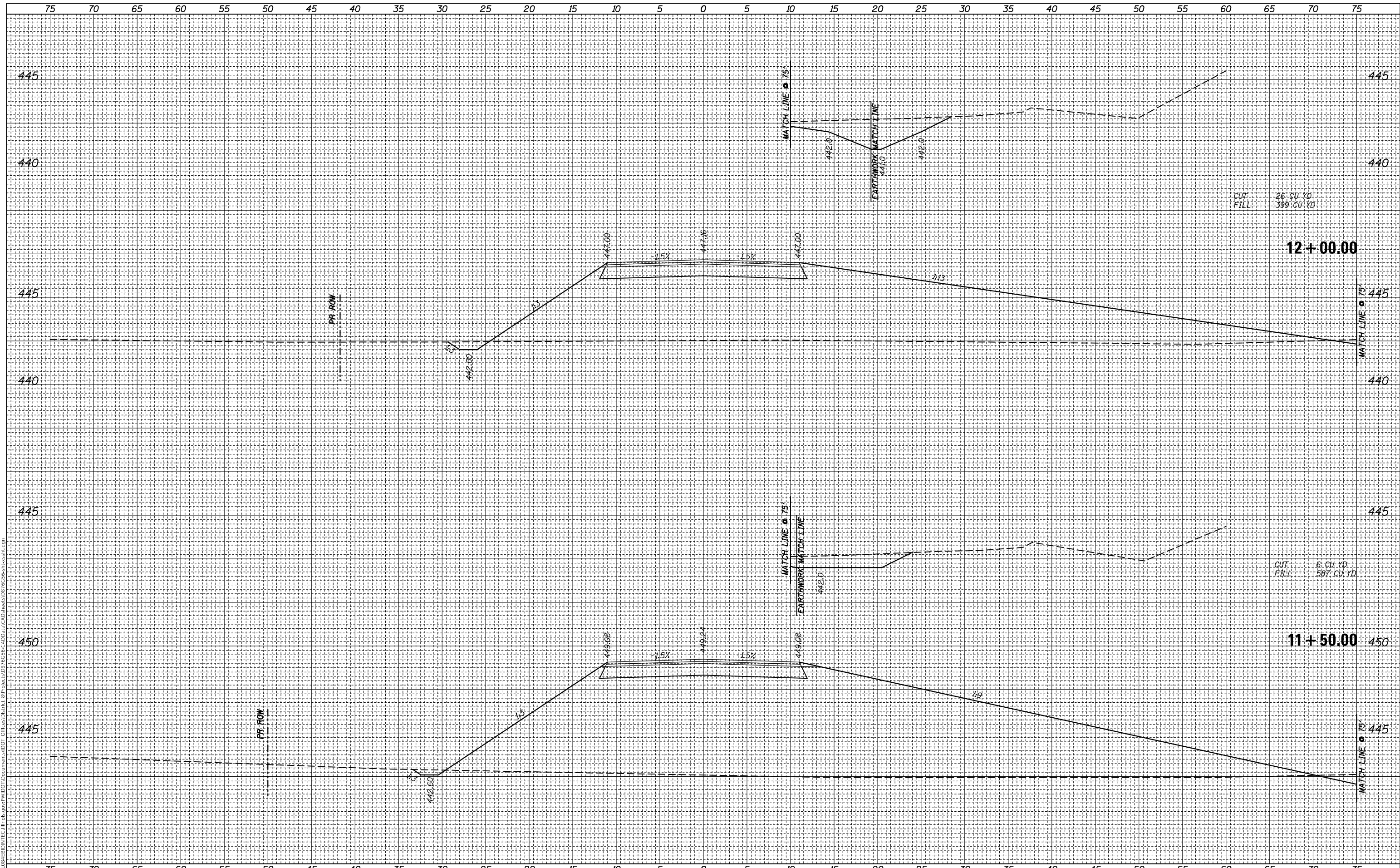
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	1258-2	MADISON	101	98
CONTRACT NO. 76G56				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SERVICE ROAD**

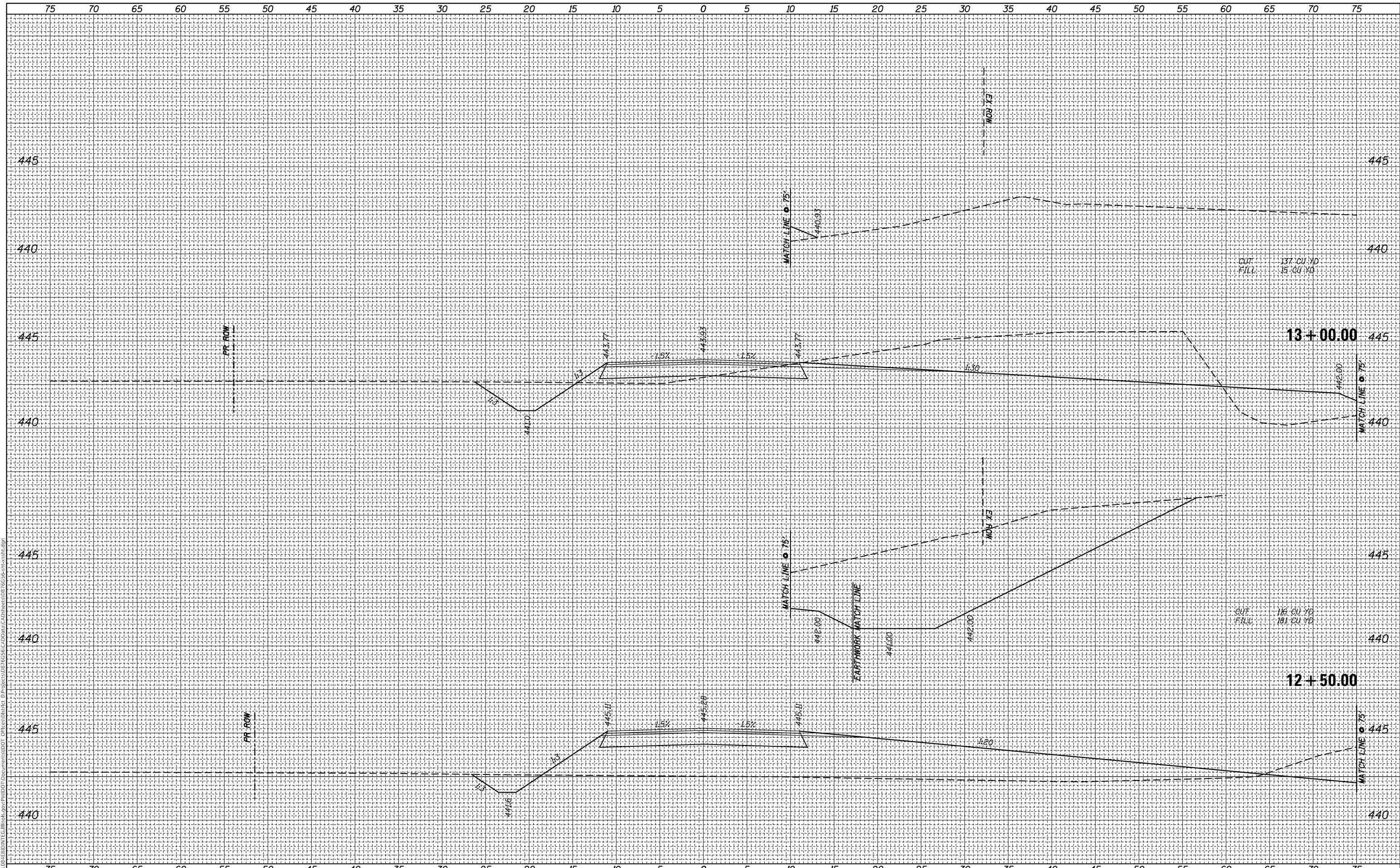
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 76G56
		ILLINOIS	FED. AID PROJECT	

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
SERVICE ROAD**

SCALE: SHEET OF SHEETS STA. 12+50.00 TO STA. 13+00.00

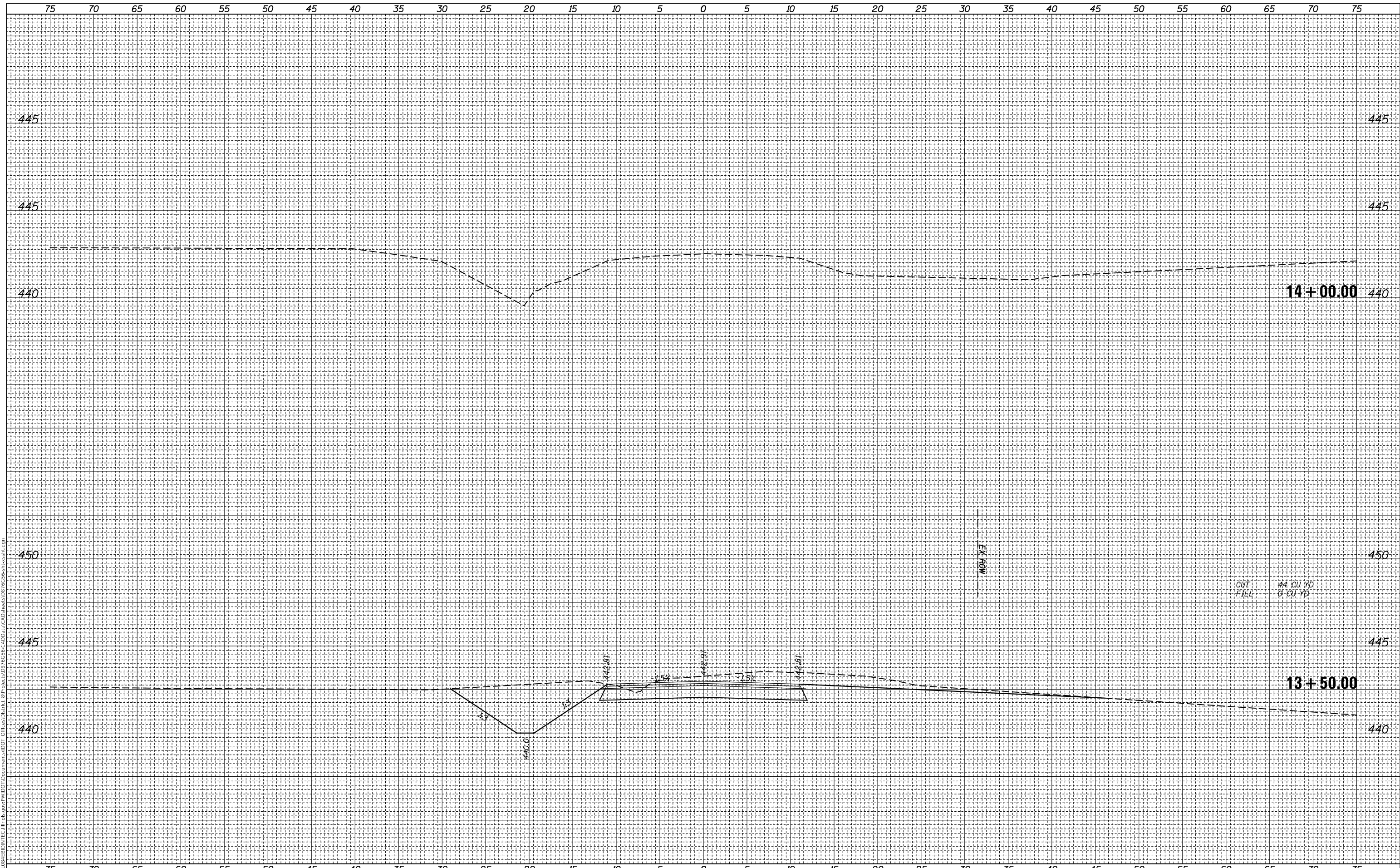
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789	1258-2	MADISON	101	100
			CONTRACT NO. 76G56	

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 13+50.00	TO STA. 14+00.00
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**CROSS SECTIONS
SERVICE ROAD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125B-2	MADISON	101	101
CONTRACT NO. 76G56				
ILLINOIS		FED. AID PROJECT		