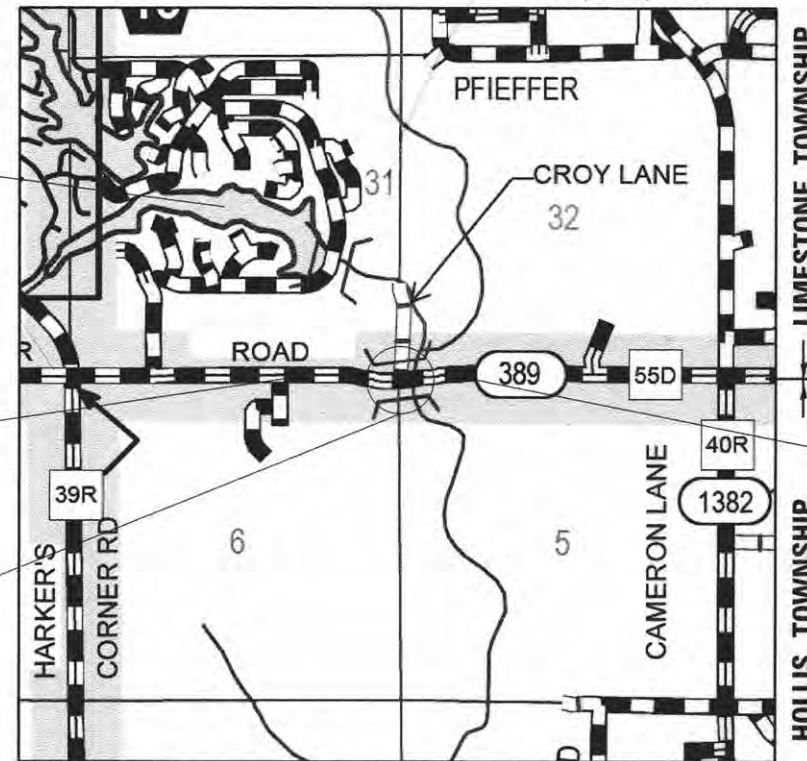


# PROPOSED HIGHWAY PLANS

F.A.S. ROUTE 389 (LANCASTER ROAD)  
SECTION 13-00049-01-BR  
PROJECT BR S-0389 (105)  
ROADWAY & BRIDGE RECONSTRUCTION  
PEORIA COUNTY

C-94-118-14

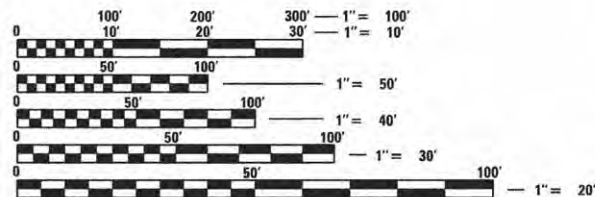
T8N, R7E, 4PM



BEGIN PROJECT  
STA. 140 + 34.66

END PROJECT  
STA. 166 + 16.01

PROPOSED STRUCTURE  
072-3061 (EXIST.)  
072-3153 (PROP.)



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

COUNTY PROJECT ENGINEER: JEFF GILLES 309-697-6400  
TERRA PROJECT MANAGER: KAREN DVORSKY 309-999-0123

CATALOG NO. 035158-00  
CONTRACT NO. 89676



GROSS LENGTH = 2581.35 FT. = 0.489 MILE  
NET LENGTH = 2581.35 FT. = 0.489 MILE



Karen Dvorsky, P.E.  
LICENSED PROFESSIONAL ENGINEER  
ILLINOIS NO. 062-053453 EXPIRES 11-30-17  
DATE 7/13/2016

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	1
		ILLINOIS	CONTRACT NO.	



FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR  
DESIGN SPEED: 50 MPH  
DESIGN TRAFFIC: 6088 ADT (2038)

PEORIA COUNTY HIGHWAY DEPARTMENT	
Approved	<i>July 13, 2016</i> <i>Cheryl Berende</i> PEORIA COUNTY ENGINEER
Passed	<i>July 15, 2016</i> <i>[Signature]</i> DISTRICT 4 ENGINEER OF LOCAL ROADS & STREETS
Releasing for Bid Based on Limited Review	<i>July 21, 2016</i> <i>[Signature]</i> REGION 3 ENGINEER

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**HIGHWAY STANDARDS**

000001-06	STANDARDS AND SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLAE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-02	METAL END SECTION FOR PIPE CULVERTS
602401-03	MANHOLE, TYPE A
602406-07	MANHOLE, TYPE A, 6' (1.8 M) DIAMETER
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604036-03	GRATE, TYPE B
606101-05	TYPE A GUTTER (INLET, OUTLET, AND ETNRANCE)
606401-02	PAVED DITCH
630001-10	STEEL PLATE GUARDRAIL
630106-01	LONG-SPAN GUARDRAIL OVER CULVERT
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-14	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
665001-02	WOVEN WIRE FENCE
666001-01	RIGHT-OF-WAY MARKERS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (14.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS, GREATER THAN 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701901-05	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
725001	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWTL RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

**DISTRICT STANDARDS**

205001-D4	SLOPE STEPS DETAIL
280101-D4	EROSION CONTROL AGGREGATE DITCH CHECK
281001-D4	RIPRAP DITCH FOR EROSION PROTECTION
406101-D4	BUTT JOINTS (3 SHTS)
406301-D4	RURAL ENTRANCES FOR "3R" PROJECTS
406401-D4	RURAL SIDEROADS FOR "3R" PROJECTS
667101-D4	PERMANENT SURVEY MARKERS, TYPE 1 & 2

**GENERAL NOTES**

**AVAILABILITY OF ELECTRONIC FILES**

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

**TREE REMOVAL – UTILITY RELOCATION**

TREE REMOVAL MAY BE NECESSARY PRIOR TO UTILITY COMPANIES BEING ABLE TO RELOCATE THEIR FACILITIES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHOULD COORDINATE ANY CONTRACT TREE REMOVAL ACTIVITIES WITH THE UTILITY COMPANIES TO ELIMINATE CONFLICTS AND POTENTIAL DELAYS CAUSED BY UTILITY TREE REMOVAL ACTIVITIES OR INCOMPLETE UTILITY RELOCATIONS.

**PLAN ELEVATIONS – U. S. G. S. MEAN SEA LEVEL DATUM**

ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

**PROPERTY OWNER ACCESS REQUIREMENTS**

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

**CLEARING**

AT LOCATIONS WHERE CLEARING IS INDICATED ON THE PLANS BEYOND THE LIMITS OF THE PROPOSED EXCAVATION OR EMBANKMENT, THE CONTRACTOR SHALL RESTORE THE DISTURBED EARTH BY BLADING AND SHAPING TO BLEND WITH THE ADJACENT GROUND. THE CLEARING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE EXCAVATION PAY ITEMS IN THE PLANS. PAYMENT FOR RESEEDING OR RESODDING WILL BE AS PROVIDED IN THE PLANS.

**EARTH EXCAVATION – INCIDENTAL TO CURB, GUTTER, & DRIVEWAY**

EARTH EXCAVATION AND BACKFILL FOR PROPOSED CURB AND GUTTER AND DRIVEWAY PAVEMENTS SHALL BE INCLUDED IN THE UNIT COST OF THE VARIOUS ITEMS.

**ENVIRONMENTAL REVIEWS**

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS, THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM D4 P10101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS. ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES. PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

**SEEDING – SIDE SLOPE RIPPING**

ALL SLOPES STEEPER THAN 3 TO 1 AND OVER 15 FT. (4.5 M) IN HEIGHT SHALL BE RIPPED. THIS SHALL CONSIST OF RIPPING BETWEEN 18 INCHES TO 24 INCHES (450 MM TO 600 MM) DEEP NORMAL TO THE SLOPE. THE INTERVAL OF RIPPING ALONG THE SLOPE SHALL BE 12 FT. (3.6 M). THIS WORK SHALL BE DONE AFTER THE SEED BED HAS BEEN PREPARED BUT BEFORE ANY FERTILIZER OR SEED HAS BEEN APPLIED. THE FERTILIZER AND SEED SHALL BE APPLIED WITHIN A 24-HOUR PERIOD AFTER THE RIPPING HAS BEEN DONE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS ITEMS OF SEEDING INVOLVED.

**AGGREGATE FOR DRIVEWAY REPLACEMENT**

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE USE(S):	P HMA SC 2"	P HMA BC (TOP LIFT) 2"	HMA BC (BOTTOM LIFT) 4"	HMA SHOULDERS (TOP LIFT) 2"	HMA SHOULDERS (BOTTOM LIFT) 6"	INCIDENTAL HMA SURF 4"
AC/PG:	SBS OR SBR 64-28	SBS OR SBR 64-28	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ N-50	4% @ N-50	4% @ N-50	4% @ N-50	4% @ N-50	4% @ N-50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 9.5	IL 19.0	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE:	MIXTURE D	N/A	N/A	MIXTURE C	N/A	MIXTURE C
QUALITY MANAGEMENT:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA

NOTES: INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.

**BUTT JOINT CUTTING TIME RESTRICTION**

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

**PAVING SURFACE COURSE**

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

**ORDERING LENGTH CONFIRMATION – DRAINAGE ITEMS**

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

**EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES**

IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS, THE CONNECTING OF EXISTING DRAIN TILES, PIPE CULVERTS, OR STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM STRUCTURES WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS PROVIDED.

**TRANSITION PAYMENT METHOD – NEW/OLD CONSTRUCTION**

THREE METER (10FT.)X(3M) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

**SETTING OF SECTION CORNER MONUMENTATION**

ALL SECTION CORNER LOCATIONS ON THIS PROJECT SHALL BE LOCATED AND VERIFIED BY A LICENSED LAND SURVEYOR PRIOR TO ANY REMOVAL WORK BEING PERFORMED. THE LAND SURVEYOR SHALL LOCATE THE EXISTING SECTION CORNERS THROUGH COURTHOUSE RESEARCH, PERSONAL KNOWLEDGE OR THROUGH THE ASSISTANCE OF LOCAL FIRMS PERFORMING LAND SURVEYING IN THE AREA. IF THE SECTION CORNER DOES NOT EXIST THROUGH EITHER ITS PHYSICAL LOCATION OR THROUGH TIES IN THE FIELD IT SHALL NOT BE RESET, THERE SHALL BE NO CALCULATING OF SECTION CORNERS ONTO A PROJECT REQUIRED.

ONCE PAVING AND STRIPING OPERATIONS HAVE BEEN PERFORMED THE SECTION CORNER SHALL BE RESET AT THE DIRECTION OF A LICENSED LAND SURVEYOR. IF ANY DIMENSIONS HAVE BEEN CHANGED IT SHALL BE THE RESPONSIBILITY OF THE SURVEYOR TO FILE A NEW DOCUMENT RECORD IN THE APPROPRIATE COURTHOUSE.

A COPY OF ALL DRAWINGS OR MONUMENT RECORDS PRODUCED FROM THIS PROJECT SHALL BE SENT TO THE CHIEF OF SURVEYS, ILLINOIS DEPARTMENT OF TRANSPORTATION, REGION THREE/DISTRICT FOUR, PEORIA, ILLINOIS.

THE SUPPLYING, DRILLING, SETTING OF DISKS, PROFESSIONAL SERVICES, LABOR AND ANY OTHER ADDITIONAL WORK REQUIRED TO PERFORM THIS WORK SHALL BE PAID FOR UNDER PAY ITEM FOR THE PERMANENT SURVEY MARKERS, TYPE I.

REFER TO DISTRICT FOUR CADD STANDARD 667101 FOR DETAILS.

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	USER NAME = branner	DESIGNED - CL	REVISED -	<b>STATE OF ILLINOIS</b> <b>PEORIA COUNTY HIGHWAY DEPARTMENT</b>	<b>LANCASTER ROAD OVER W LAMARSH CREEK</b> <b>HIGHWAY STANDARDS AND GENERAL NOTES</b>	F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 2
	PLOT SCALE = 2.0000 ' / in.	CHECKED - KSD	REVISED -			SCALE: NTS	SHEET 1 OF 2	SHEETS STA.	TO STA.	CONTRACT NO. 89676
	PLOT DATE = 7/13/2016	DATE - 07/13/16	REVISED -				ILLINOIS FED. AID PROJECT			



**GENERAL NOTES CONT'D**

**WOVEN WIRE FENCE REPLACEMENT COMMITMENT**

THE WOVEN WIRE FENCE SHALL BE INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING FARM FENCES. THE CONTRACTOR SHALL PROVIDE A PULL POST AT THE INTERSECTION OF NEW AND EXISTING FENCES. WHEN SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL THE WOVEN WIRE FENCE PRIOR TO COMMENCING ANY OTHER WORK IN THE AREA. THE CONTRACTOR SHALL PERFORM ANY CLEARING AND MINOR GRADING AS DIRECTED BY THE ENGINEER TO PROVIDE A SMOOTH GROUND SURFACE FOR THE PROPOSED FENCE.

**RIGHT-OF-WAY MARKERS**

WHEN INSTALLING RIGHT-OF-WAY MAKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.

**SIGNING**

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES. ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

**COMMITMENTS:**

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

1. TREES SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.
2. IMPACT TO TREES SHALL BE MITIGATED IN ACCORDANCE WITH IDOT DEPARTMENTAL POLICY D&E-18 PRESERVATION AND REPLACEMENT OF TREES.
3. AT THE REQUEST OF THE PROPERTY OWNER, REMOVE AND REPLACE FENCING BEFORE CONSTRUCTION BEGINS.


**PROJECT SPECIFIC GENERAL NOTES:**

1. TEMPORARY EROSION CONTROL - ALL SLOPES WILL BE COVERED WITH TEMPORARY EROSION CONTROL BLANKET BEFORE FINAL SEEDING.
2. ALL PIPE CULVERTS TYPE A OR STORM SEWERS TYPE A SHALL BE REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE, UNLESS OTHERWISE NOTED.
3. POLYWRAP IS NOT REQUIRED IN WATER MAIN CONSTRUCTION.
4. FOR RIGHT-OF-WAY DIMENSIONS, SEE RIGHT-OF-WAY PLAN SHEETS.

**APPLICATION RATES**

BITUMINOUS MATERIALS (TACK COAT)	0.025 LB/SF
POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	0.025 LB/SF
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/SF
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE
SEEDLINGS	100 EACH/UNIT

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	USER NAME = brennar	DESIGNED - CL	REVISED -	<b>STATE OF ILLINOIS</b> <b>PEORIA COUNTY HIGHWAY DEPARTMENT</b>	<b>LANCASTER ROAD OVER W LAMARSH CREEK</b> <b>HIGHWAY STANDARDS AND GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2,0000' / 1" =	DRAWN - CL/BKR	REVISED -			389	13-00049-01-BR	PEORIA	151	3
PLOT DATE = 7/13/2016	CHECKED - KSD	REVISED -	CONTRACT NO. 89676							
DATE - 07/13/16	DATE - 07/13/16	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: NTS		SHEET 2 OF 2 SHEETS		STA. TO STA.		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL
20100500	TREE REMOVAL, ACRES	ACRE	1.5
20200100	EARTH EXCAVATION	CU YD	10170
20400800	FURNISHED EXCAVATION	CU YD	6050
20800150	TRENCH BACKFILL	CU YD	1012
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8226
28100107	STONE RIPRAP, CLASS A4	SQ YD	450
25000110	SEEDING, CLASS 1A	ACRE	0.25
25000300	SEEDING, CLASS 3	ACRE	4
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	363
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	363
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	363
25100630	EROSION CONTROL BLANKET	SQ YD	20723
25100125	MULCH, METHOD 3	ACRE	4.25
25301800	SEEDLINGS	UNIT	6.3
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	390

\* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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PLOT DATE = 7/13/2016

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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
SUMMARY OF QUANTITIES

SCALE: NTS SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 4
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL
28000315	AGGREGATE DITCH CHECKS	TON	140
28000400	PERIMETER EROSION BARRIER	FOOT	5804
28000500	INLET AND PIPE PROTECTION	EACH	12
28100109	STONE RIPRAP, CLASS A5	SQ YD	1134
28200200	FILTER FABRIC	SQ YD	450
35100100	AGGREGATE BASE COURSE, TYPE A	TON	1988
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	2704
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3180
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	77
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	300
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	277
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1359
40603210	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	679
40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	679

\* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	422
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	89
44000100	PAVEMENT REMOVAL	SQ YD	5579
48100100	AGGREGATE SHOULDERS, TYPE A	TON	9
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	4454
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50104650	SLOPE WALL REMOVAL	SQ YD	460
50105220	PIPE CULVERT REMOVAL	FOOT	494
50200100	STRUCTURE EXCAVATION	CU YD	661
50300225	CONCRETE STRUCTURES	CU YD	80
50300255	CONCRETE SUPERSTRUCTURE	CU YD	207
50300260	BRIDGE DECK GROOVING	SQ YD	730
50300300	PROTECTIVE COAT	SQ YD	892
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	123

\* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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 CHECKED - KSD  
 DATE - 07/13/16

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**STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
 SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 6
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	1278
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	85390
51202000	FURNISHING STEEL PILES HP 14X102	FOOT	430
51202305	DRIVING PILES	FOOT	430
51204000	TEST PILE STEEL HP 14X102	EACH	2
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	24
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1652
52200500	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	1522
54213459	END SECTIONS 24"	EACH	1
54213495	END SECTIONS 60"	EACH	2
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	4
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	3

\* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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**STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
 SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	7
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1
* 542C0265	PIPE CULVERTS, CLASS C, TYPE 1 60"	FOOT	59
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	145
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	310
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	73
550A0680	STORM SEWERS, CLASS A, TYPE 3 18"	FOOT	98
*Δ 56100003	DUCTILE IRON WATER MAIN TEE, 4" X 4"	EACH	1
*Δ 56100005	DUCTILE IRON WATER MAIN TEE, 6" X 6"	EACH	5
Δ 56101146	DUCTILE IRON WATER MAIN REDUCER, 6" X 4"	EACH	3
*Δ 56102900	DUCTILE IRON WATER MAIN 4"	FOOT	178
*Δ 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	2188
*Δ 56104800	WATER VALVES 4"	EACH	3
*Δ 56104900	WATER VALVES 6"	EACH	1
*Δ 56108710	TAPPING VALVES AND SLEEVES 4"	EACH	2
*Δ 56108800	TAPPING VALVES AND SLEEVES 6"	EACH	3

\* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 8
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	





**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL
Δ 63200310	GUARDRAIL REMOVAL	FOOT	944
Δ 66405600	CHAIN LINK GATES, 4' X 8' DOUBLE	EACH	1
Δ 66500105	WOVEN WIRE FENCE, 4'	FOOT	1240
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	34
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	6
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	14
67100100	MOBILIZATION	LSUM	1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	9840
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600
Δ 70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	51
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8
Δ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	84
Δ 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	7380
Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20

\* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
X0301797	GATE REMOVAL	EACH	1
* X0322584	REVTMENT MAT REMOVAL	SQ YD	2010
* X0323265	REMOVE EXISTING RIPRAP	SQ YD	156
*Δ X0327747	WATER MAIN ENCASEMENT	FOOT	168
*Δ X5610644	PLUG WATER MAIN 4"	EACH	2
*Δ X5610646	PLUG WATER MAIN 6"	EACH	2
*Δ X5620116	WATER SERVICE CONNECTION (SHORT)	EACH	2
*Δ X5620118	WATER SERVICE CONNECTION (LONG)	EACH	3
* X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	193
*Δ X5630004	CUT AND CAP EXISTING 4" WATER MAIN	EACH	2
*Δ X5630006	CUT AND CAP EXISTING 6" WATER MAIN	EACH	2
* X6062700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	471
* X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	9
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
* X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	1800

\* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
SUMMARY OF QUANTITIES

SCALE: NTS SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	11
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL
Δ*	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT 9840
Δ*	X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT 35
*	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON 57
*	Z0013798	CONSTRUCTION LAYOUT	LSUM 1
*	Z0016702	DETOUR SIGNING	LSUM 1
*	Z0023600	FILLING EXISTING CULVERTS	EACH 3
*	Z0022800	FENCE REMOVAL	FOOT 1203
*	Z0046304	PIPE UNDERDRAININGS FOR STRUCTURES 4"	FOOT 148
*	Z0051500	REMOVING AND RESETTNG STREET SIGNS	EACH 25
*	Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT 400
#	Z0076600	TRAINEES	HOOR 500
*	Z0077700	WOOD FENCE TO BE REMOVED AND RE-ERECTED	FOOT 87
#	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR 500
*	XX009136	PRECORED PILE LOCATIONS FILLED WITH BENTONITE	EACH 6
*Δ	XX009143	DUCTILE IRON WATER MAIN FITTINGS 4" 22.50 DEGREE BEND	EACH 2
*Δ	XX008983	DUCTILE IRON WATER MAIN FITTINGS 6" 22.50 DEGREE BEND	EACH 2
*Δ	56100004	DUCTILE IRON WATER MAIN TEE, 6"X4"	EACH 2

\* SPECIAL PROVISION #0042

Δ SPECIALTY ITEMS

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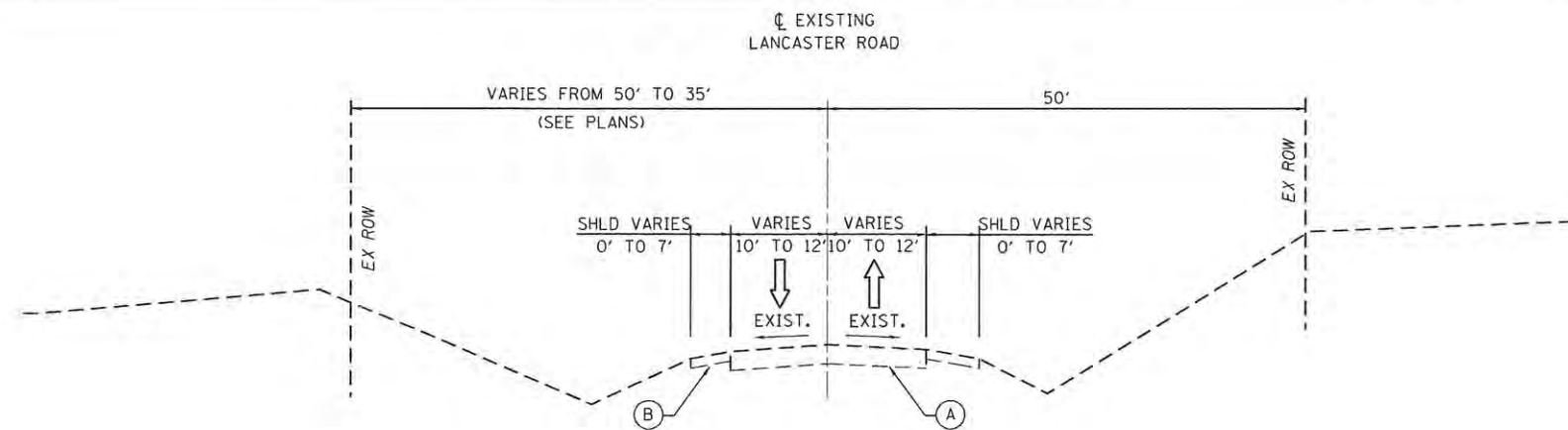
**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 9 OF 9 SHEETS STA. TO STA.

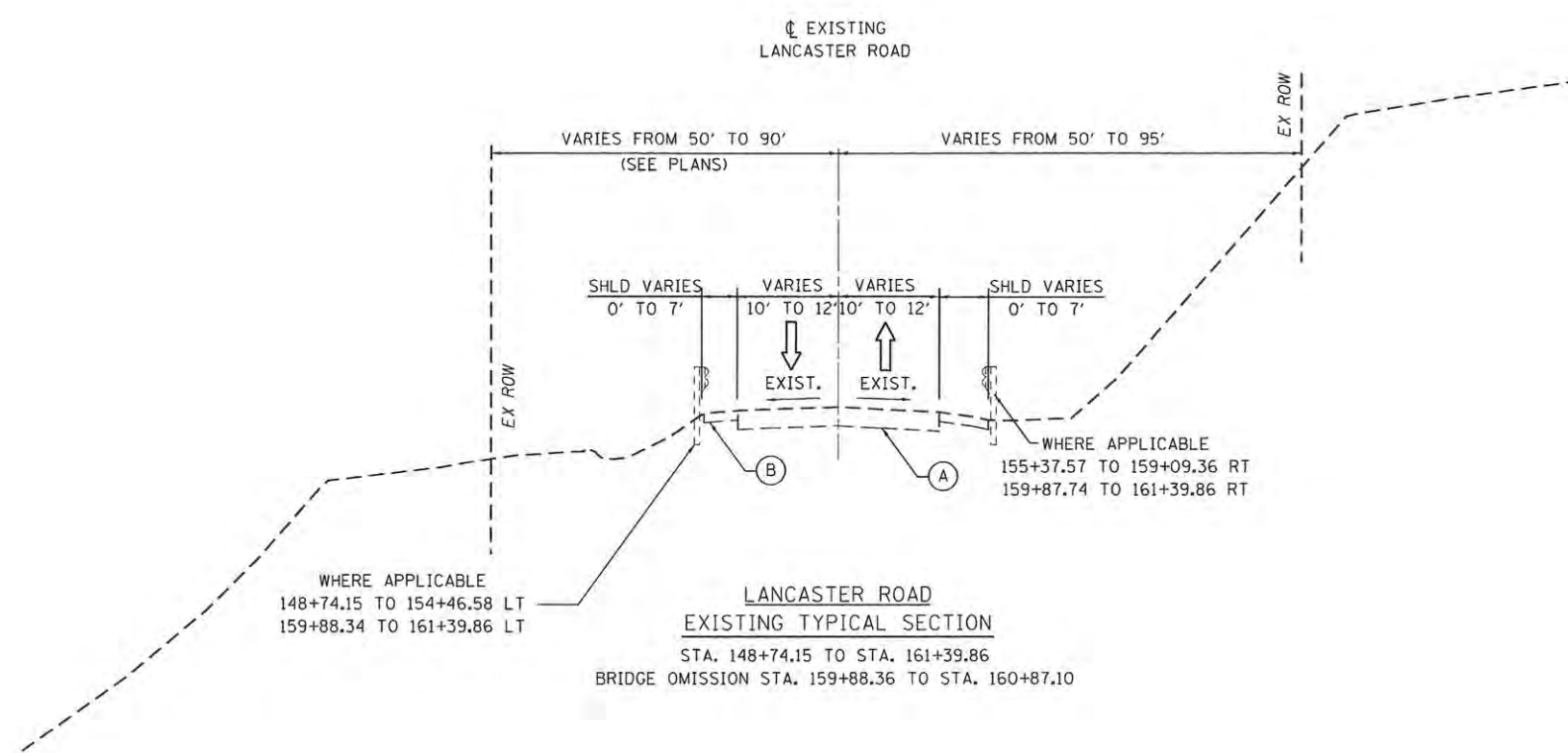
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CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	





**LANCASTER ROAD**  
**EXISTING TYPICAL SECTION**  
 STA. 141+55.99 TO STA. 148+74.15  
 STA. 161+39.85 TO STA. 166+16.01

- LEGEND**
- (A) EXISTING BITUMINOUS PAVEMENT, 10"
  - (B) EXISTING EARTH SHOULDER



**LANCASTER ROAD**  
**EXISTING TYPICAL SECTION**  
 STA. 148+74.15 TO STA. 161+39.86  
 BRIDGE OMISSION STA. 159+88.36 TO STA. 160+87.10

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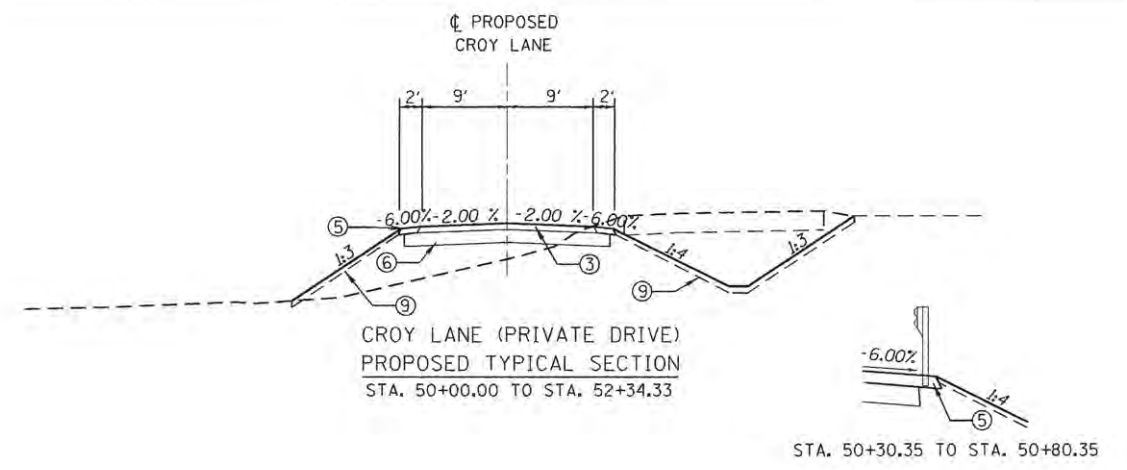
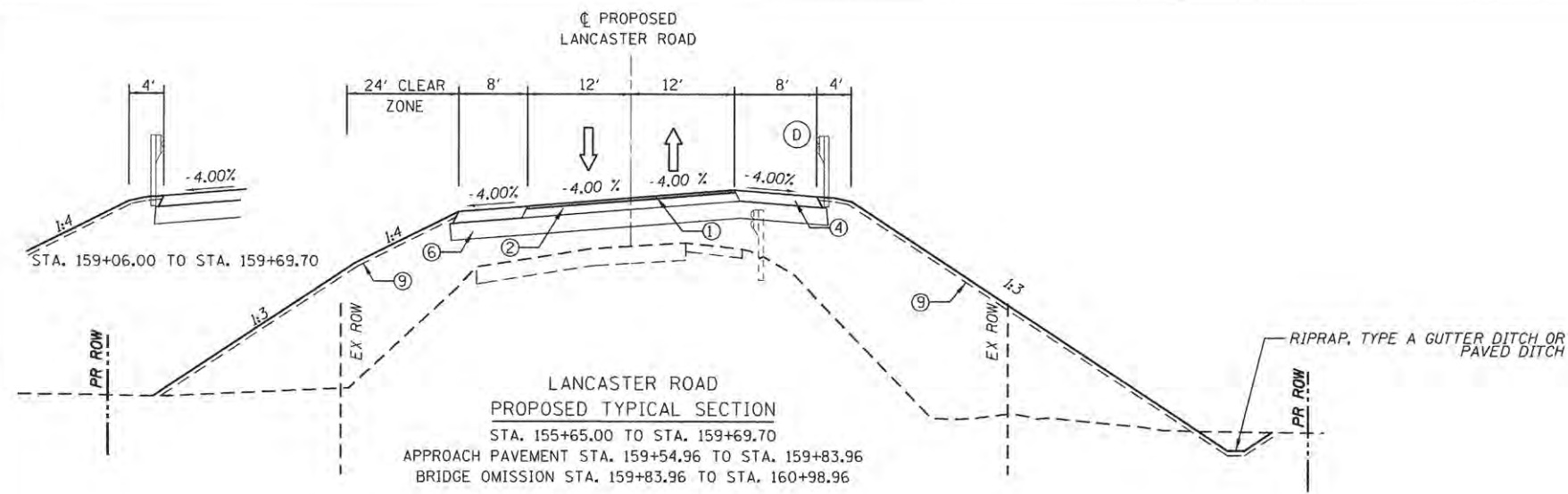
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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**EXISTING TYPICAL SECTIONS**  
 SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	13
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				





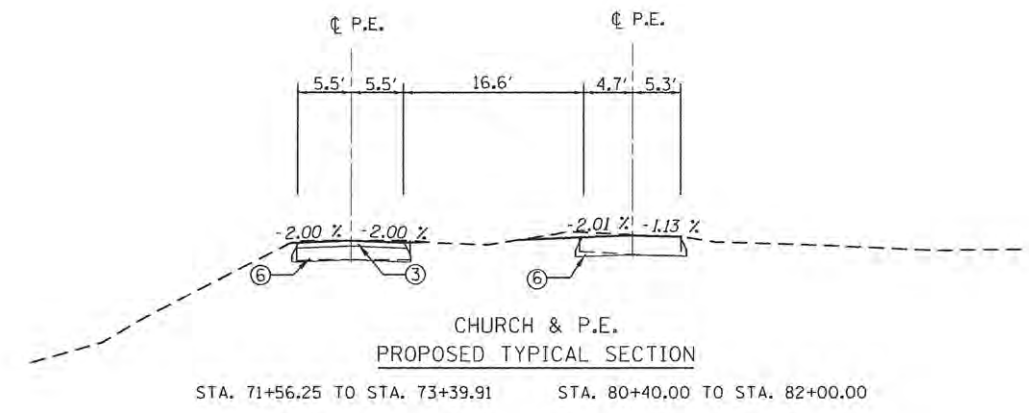
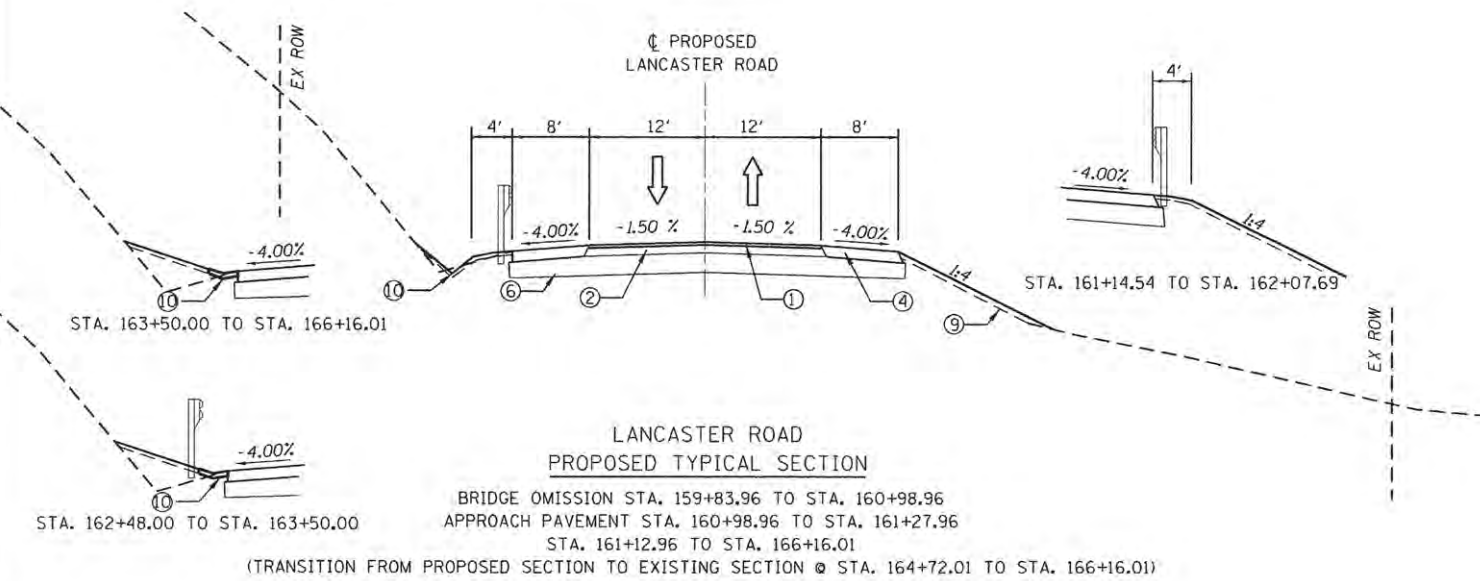
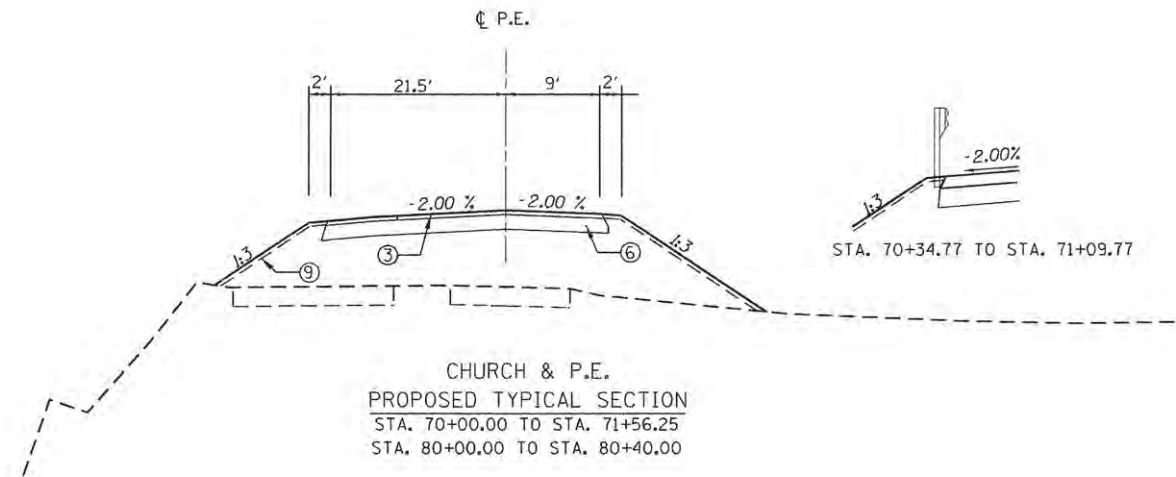
- LEGEND**
- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
  - ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2"  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
  - ③ INCIDENTAL HOT-MIX ASPHALT SURFACING, 4"
  - ④ HOT-MIX ASPHALT SHOULDERS, 8"
  - ⑤ AGGREGATE SHOULDER, 4"
  - ⑥ AGGREGATE BASE COURSE, TYPE A - 12"
  - ⑦ TYPE A GUTTER
  - ⑧ TYPE A GUTTER OUTLET
  - ⑨ TOPSOIL FURNISH AND PLACE, 4"
  - ⑩ TYPE A GUTTER, SPECIAL

EXISTING/PROPOSED ROW WIDTHS VARY.  
SEE ROW PLANS FOR DETAILS.

FOR GUARDRAIL, SEE TABLES ON  
PLAN SHEETS 31 TO 35

STA. 142+47.00 TO STA. 164+72.00

STRUCTURAL DESIGN TRAFFIC: YEAR 2028 ADT 5,512  
 PV = 94.4% SU = 5.0% MU = 0.6%  
 ROAD/STREET CLASSIFICATION: CLASS II (2-LANE)  
 P = 50% S = 50% M = 50%  
 TRAFFIC FACTOR: ACTUAL TF = 0.444 AC TYPE = N/A  
 MINIMUM TF = N/A  
 AC GRADE: Binder = N/A Surface = N/A  
 SUBGRADE SUPPORT RATING:  
 SSR = POOR (STA. 142+47.49 TO 164+72.01 )  
 SSR = (STA. TO )



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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**PROPOSED TYPICAL SECTIONS**

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

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 15
			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				



EARTHWORK SCHEDULE				
LOCATION	4	5	6	7
	EARTH EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (COL 4 x 0.75)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR FURNISHED EXCAVATION (-) (COL 5 - COL 6)
	CU YD	CU YD	CU YD	CU YD
LANCASTER RD	9765.1	7323.9	8828.6	-1504.7
CROY LANE	258.7	194.0	2102.4	-1908.4
DRIVEWAY 1	4.5	3.4	2085.5	-2082.1
PRIVATE DRIVE	143.1	107.3	661.9	-554.6
<b>TOTAL</b>	<b>10171</b>	<b>7629</b>	<b>13678</b>	<b>-6050</b>

REMOVAL SCHEDULE							
LOCATION		40600982	44000100	50105220	63200310	X0322584	X0323265
		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	PIPE CULVERT REMOVAL	GUARDRAIL REMOVAL	REVTMENT MAT REMOVAL	REMOVE EXISTING RIPRAP
BEGIN STATION	END STATION	SQ YD	SQ YD	FOOT	FOOT	SQ YD	SQ YD
141+55.99	145+50.00	208	689	15		188	
145+50.00	151+50.00		1380	20	275.85	1261	156
151+50.00	157+50.00		1553	61	509.01	561	
157+50.00	163+50.00		1297	137	159.31		
163+50.00	166+16.01	69	661				
<b>TOTAL</b>		<b>277</b>	<b>5579</b>	<b>233</b>	<b>944</b>	<b>2010</b>	<b>156</b>

TREE REMOVAL SCHEDULE			
LOCATION			20100500
BEGIN STATION	END STATION	LT./RT.	TREE REMOVAL, ACRES
140+82.91	145+50.00	LT.	0.18
145+50.00	151+50.00	LT.	0.20
151+50.00	157+50.00	LT.	0.16
157+50.00	163+50.00	LT.	0.20
140+82.91	145+50.00	RT.	0.01
145+50.00	151+50.00	RT.	0.06
151+50.00	157+50.00	RT.	0.41
157+50.00	163+50.00	RT.	0.21
<b>TOTAL</b>			<b>1.50</b>

X6660410 ROW MARKER REMOVAL			
STATION	OFFSET (FT)	LT/RT	EACH
149+43.37	34.09	LT	1
151+34.25	37.05	LT	1
156+83.20	34.63	LT	1
159+05.25	33.76	LT	1
150+36.54	61.45	RT	1
153+78.84	26.30	RT	1
154+19.71	28.67	RT	1
157+80.81	40.24	RT	1
164+29.64	31.95	RT	1
<b>TOTAL</b>			<b>9</b>

FENCE SCHEDULE								
STATION	OFFSET (FT)	LT/RT	66500105	Z0022800	Z0055905	Z0077700	66405600	X0301797
			WOVEN WIRE FENCE, 4'	FENCE REMOVAL	TEMPORARY CONSTRUCTION FENCE	WOOD FENCE TO BE REMOVED AND RE-ERECTED	CHAIN LINK GATES, 4' X 8'	GATE REMOVAL
			FOOT	FOOT	FOOT	FOOT	EACH	EACH
142+42.93 to 144+36.93	46.11 to 50.71	RT.	118	153.7	150	26		
144+80.00 to 147+30.00	50.15 to 49.96	RT.	254.3	248.6	250			
150+11.37 to 158+28.27	62.46 to 31.72	RT.	868	800.4			1	1
164+17.98 to 164+72.35	33.77 to 42.37	RT.				61		
<b>TOTAL</b>			<b>1240</b>	<b>1203</b>	<b>400</b>	<b>87</b>	<b>1</b>	<b>1</b>

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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	16
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				

SEEDING SCHEDULE											
LT/RT	LOCATION		21101615	25000110	25000300	25000400	25000500	25000600	25100630	25301800	
			TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 1A	SEEDING, CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	SEEDLINGS	
LANCASTER RD.			SQ YD	ACRE	ACRE	POUND	POUND	POUND	SQ YD	UNIT	
LT	BEGIN STATION	END STATION									
		141+56.00	151+50.00	1350.9	0.0	0.6	52.7	52.7	52.7	2835.9	2.4
		151+50.00	163+50.00	1610.7	0.3	0.6	60.4	60.4	60.4	4461.2	0.5
RT		163+50.00	166+16.01	153.1	0.0	0.1	5.8	5.8	310.7		
		141+56.00	151+50.00	2173.1	0.0	0.9	84.3	84.3	4533.7	2.4	
		151+50.00	163+50.00	2844.7	0.0	1.1	102.2	102.2	5493.8	1.0	
	163+50.00	166+16.01	72.6	0.0	0.0	2.5	2.5	2.5	133.5		
CROY LANE											
LT	BEGIN STATION	END STATION									
		50+00.00	51+00.00	2.3	0.0	0.1	6.8	6.8	6.8	363.3	
		51+00.00	52+34.34	1.4	0.0	0.1	4.7	4.7	4.7	250.2	
RT		50+00.00	51+00.00	2.1	0.0	0.1	6.1	6.1	6.1	326.6	
		51+00.00	52+34.34	2.7	0.0	0.1	8.1	8.1	8.1	437.3	
DRIVEWAY 1											
LT	BEGIN STATION	END STATION									
		70+00.00	71+00.00	1.1	0.0	0.1	4.6	4.6	4.6	245.2	
		71+00.00	72+50.00	0.4	0.0	0.0	2.8	2.8	2.8	151.0	
RT		70+00.00	71+00.00	1.9	0.0	0.1	7.6	7.6	7.6	408.8	
		71+00.00	72+50.00	1.0	0.0	0.0	2.8	2.8	2.8	148.7	
PRIVATE DRIVEWAY											
LT	BEGIN STATION	END STATION									
		153+80.00	154+50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		154+50.00	155+50.00	7.7	0.0	0.1	10.6	10.6	10.6	571.7	
RT		153+80.00	154+50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		154+50.00	155+50.00	0.7	0.0	0.0	1.0	1.0	1.0	51.8	
TOTAL			8226	0.25	4.00	363	363	363	20723	6.3	

EROSION CONTROL SCHEDULE							
LOCATION		28000400	25100125	28000250	28000315	28000500	28200200
		PERIMETER EROSION BARRIER	MULCH, METHOD 3	TEMPORARY EROSION CONTROL SEEDING	AGGREGATE DITCH CHECKS	INLET AND PIPE PROTECTION	FILTER FABRIC
BEGIN STATION	END STATION	FOOT	ACRE	POUND	TON	EACH	SQ YD
141+55.99 (LT)	166+16.01 (LT)	2881	2.25	162	28	8	12
141+55.99 (RT)	166+16.01 (RT)	2924	2.00	228	112	4	96
TOTAL		5804	4.25	390	140	12	108

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STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
 SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	



CULVERT SCHEDULE							
LOCATION		20800150	550A0380	550A0410	550A0430	550A0680	542C0265
		TRENCH BACKFILL	STORM SEWERS, CLASS A, TYPE 2 18"	STORM SEWERS, CLASS A, TYPE 2 24"	STORM SEWERS, CLASS A, TYPE 2 30"	STORM SEWERS, CLASS A, TYPE 3 18"	PIPE CULVERTS, CLASS C, TYPE 1 60"
BEGIN STATION	END STATION	CU YD	FOOT	FOOT	FOOT	FOOT	FOOT
142+54.05 RT	143+09.23 LT	113	82				
143+09.23 LT	143+30.82 LT	40				32	
143+30.82 LT	143+47.13 LT	43	31				
148+21.50 RT	148+38.90 LT	106		69			
148+38.90 LT	148+44.31 LT	23		15			
154+13.31 RT	154+75.62 LT	128		96			
154+75.62 LT	154+82.09 LT	4		10			
154+51.02 LT	154+82.09 LT	90	32				
154+82.09 LT	155+39.58 LT	24			73		
155+60.82 LT	155+68.41 LT	125				66	
PRIVATE DRIVEWAYS							
70+61.08 LT	71+14.95 RT	130		70			
71+14.95 LT	71+46.63 LT	93		50			
50+79.05 LT	51+13.81 RT	93					59
TOTAL		1012	145	310	73	98	59

DRAINAGE SCHEDULE								
LOCATION			60602500	60600095	60615400	60616110	X6062700	Z0023600
			CONCRETE GUTTER, TYPE A	CLASS SI CONCRETE (OUTLET)	PAVED DITCH, TYPE A-15	PAVED DITCH, TYPE A-30	CONCRETE GUTTER, TYPE A (SPECIAL)	FILLING EXISTING CULVERTS
LT	BEGIN STATION	END STATION	FOOT	CU YD	FOOT	FOOT	FOOT	EACH
	141+55.99	151+50.00	522	8.1				2
	151+50.00	157+50.00	255	6.8				1
	157+50.00	166+16.01		3.7			471	
RT	141+55.99	151+50.00	544	8.3				
	151+50.00	157+50.00	189	4.1	42.6	390		
	157+50.00	166+16.01				135		
TOTAL			1509.0	31.0	42.5	525.0	471.0	3

END SECTION SCHEDULE						
LOCATION		54213663	54213459	54213669	54213675	54213495
		PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	END SECTIONS 24"	PRECAST REINFORCED	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	END SECTIONS 60"
STATION	OFFSET (FT)	EACH	EACH	EACH	EACH	EACH
142+55.34	33.10 RT	1				
143+42.97	65.15 LT	1				
148+14.85	37.75 RT			1		
148+46.69	53.13 LT			1		
154+09.31	51.92 RT			1		
154+45.17	42.92 LT	1				
155+44.07	90.39 LT				1	
155+69.11	97.92 LT	1				
PRIVATE DRIVEWAYS						
70+61.08	25.19 RT		1			
50+76.14	31.39 LT					1
51+21.85	29.70 RT					1
TOTAL		4	1	3	1	2

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STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
 SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	18
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				



MANHOLE SCHEDULE				
LOCATION		60218400	60219000	60224005
		MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE
STATION	OFFSET (FT)	EACH	EACH	EACH
143+09.23	27.32 LT	1		
143+30.82	51.52 LT	1		
148+38.90	30.90 LT	1		
154+75.62	24.87 LT	1		
154+82.09	32.36 LT			1
155+60.82	26.49 LT		1	
PRIVATE DRIVEWAYS				
71+14.94	22.93 LT		1	
TOTAL		4	2	1

WATER MAIN VALVE SCHEDULE					
LOCATION		56104800	56104900	56108710	56108800
		WATER VALVES 4"	WATER VALVES 6"	TAPPING VALVES AND SLEEVES 4"	TAPPING VALVES AND SLEEVES 6"
STATION	OFFSET	EACH	EACH	EACH	EACH
LANCASTER RD.					
140+34.66	18.5' RT.				1
154+70.52	45.1' LT.				
155+92.65	18.8' RT.		1		
155+96.20	13.8' RT.	1			
158+16.49	18.8' RT.				1
CROY LANE					
51+83.53	11.0' RT.	1		1	
CHURCH ENTRANCE					
70+18.67	10.59' RT.	1		1	
71+08.84	42.2' LT.				1
TOTAL		3	1	2	3

WATER MAIN SCHEDULE					
LOCATION		56102900	56103000	X0327747	20800150
		DUCTILE IRON WATER MAIN 4"	DUCTILE IRON WATER MAIN 6"	WATER MAIN ENCASEMENT	TRENCH BACKFILL
STATION	OFFSET	FOOT	FOOT	FOOT	CU YD
LANCASTER RD					
142+35.02 TO 145+50.00	18.5' RT.		532	30	115
145+50.00 TO 151+50.00	18.8' RT.		600	24	130
151+50.00 TO 157+50.00	18.8' RT.		600	39	130
157+50.00 TO 158+74.91	18.8' RT.		125		27
CROY LANE					
50+00.00 TO 52+34.52	22.0' LT. TO 11.0' RT.		217	36	40
CHURCH ENTRANCE					
70+00.00 TO 73+00.00	5.6' LT. TO 15.0' LT.		114	14	21
PRIVATE DRIVE					
1+52.03 TO 3+18.79	10' LT.	178		25	33
TOTAL		178	2188	168	495

RIPRAP SCHEDULE				
LOCATION			28100107	28200200
			STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	OFFSET	LT/RT	SQ YD	SQ YD
LANCASTER RD				
143+48.11	84.50'	LT	22.2	22.2
148+10.23	44.66'	LT	15.3	15.3
148+16.65	43.30'	RT	22.0	22.0
148+43.72	47.70'	LT	78.0	78.0
154+10.49	55.82'	RT	30.2	30.2
155+66.73	103.45'	LT	141.3	141.3
159+84.37	74.62'	LT	140.5	140.5
TOTAL			450	450

WATER MAIN FITTINGS SCHEDULE															
LOCATION		DUCTILE IRON WATER MAIN FITTINGS 4" 22.50 DEGREE BEND	DUCTILE IRON WATER MAIN FITTINGS 6" 22.50 DEGREE BEND	56109416	56109418	56100003	56100005	56101146	56400820	X5630004	X5630006	X5620116	X5620118	X5610644	X5610646
				DUCTILE IRON WATER MAIN FITTINGS 4" 45.00 DEGREE BEND	DUCTILE IRON WATER MAIN FITTINGS 6" 45.00 DEGREE BEND	DUCTILE IRON WATER MAIN TEE, 4" X 4"	DUCTILE IRON WATER MAIN TEE, 6" X 6"	DUCTILE IRON WATER MAIN REDUCER, 6" X 4"	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	CUT AND CAP EXISTING 4" WATER	CUT AND CAP EXISTING 6" WATER	WATER SERVICE CONNECTION (SHORT)	WATER SERVICE CONNECTION (LONG)	PLUG WATER MAIN 4"	PLUG WATER MAIN 6"
STATION	OFFSET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
LANCASTER RD.															
140+34.66	10.6' RT. - 25.3' RT.						1		1		1				1
143+70.96	18.9' RT.											1			
150+04.72	18.9' RT.											1			
155+96.20	18.8' RT.						1	1							
158+16.49	18.8' RT.				1										
158+16.49	13.9' RT.														
158+74.91	19.4' RT.						1								
CROY LANE															
50+61.35	22.0' LT.				1					1					
51+70.96	17.1' LT.														
51+74.61	9.0' LT.				1										
51+83.53	11.0' RT.					1				1				1	
CHURCH ENTRANCE															
70+18.67	10.4' RT.														
70+19.62	2.21' LT.		1							1					
71+05.68	47.4' LT.		1												
71+08.30	46.2' LT.				1										
71+08.84	42.2' LT.						1				1				1
71+10.11	51.4' LT.									1				1	
PRIVATE DRIVE															
1+52.03	9.3' LT.														
1+65.56	12.4' LT.	1													
1+70.63	17.3' RT.												3		
2+12.00	9.9' LT.	1													
2+65.83	12.3' LT.				1										
2+77.60	12.9' LT.				1										
TOTAL		2	2		2	4	1	5	3	2	2	2	3	2	2

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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**SCHEDULE OF QUANTITIES**

SCALE: NTS    SHEET 4 OF 6    SHEETS    STA.    TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 19
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	

PAVING SCHEDULE											
LOCATION		40603080	40603210	40603535	40800050	48203029	35100100	48100100	40600290	40600295	40600275
		HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	INCIDENTAL HOT-MIX ASPHALT SURFACING	HOT-MIX ASPHALT SHOULDERS, 8"	AGGREGATE BASE COURSE, TYPE A	AGGREGATE SHOULDERS, TYPE A	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)
BEGIN STATION	END STATION	TON	TON	TON	TON	SQ YD	TON	TON	POUND	POUND	POUND
LANCASTER RD.											
141+55.99	145+50.00	234	117	117		701	292			52	449
145+50.00	151+50.00	357	179	179		1067	444			80	683
151+50.00	157+50.00	361	181	181		1147	444			81	683
157+50.00	163+50.00	257	129	129		1067	444			57	683
163+50.00	166+16.01	150	75	75		473	197			33	303
DRIVEWAYS											
143+88.10 MAINLINE (RT.)					14		7		3		16
154+80.57 MAINLINE (RT.)					32		15		7		35
155+84.96 MAINLINE (LT.)					82		36		17		84
158+80.54 MAINLINE (LT: CROY LN)					116		9	9	4		22
158+81.13 MAINLINE (RT: CHURCH/PE)					169		94		43		217
164+00.28 MAINLINE (RT.)					9		4		2		10
TOTAL		1359	679	679	422	4454	1988	9	77	300	3180

STEEL PLATE GUARDRAIL SCHEDULE									
LOCATION			63000001	63000360	63100085	63100167	78200005	72501000	Z0001002
			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL AGGREGATE EROSION CONTROL
BEGIN STATION	END STATION	OFFSET	FOOT	FOOT	EACH	EACH	EACH	EACH	TON
140+82.91	145+50.00	LT.	227	168.8		1	4	1	11
145+50.00	151+50.00	LT.	265	337.6			6		16
151+50.00	157+50.00	LT.	200	168.8		1	3	1	11
157+50.00	163+50.00	LT.	63	168.8	2	1	2	1	8
163+50.00	163+75.79	LT.				1	1	1	2
151+50.00	157+50.00	RT.	187			1	2	1	6
157+50.00	163+50.00	RT.	38		2	3	2	3	3
TOTAL			975	844.0	4	8	20	8	57

DETOUR SIGNING		
LOCATION		Z0016702
		DETOUR SIGNING
BEGIN STATION	END STATION	LSUM
141+55.99	166+16.01	1
TOTAL		1

TRAFFIC CONTROL SCHEDULE						
LOCATION		X7010216	40201000	70400100	70600255	X7040125
		TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	AGGREGATE FOR TEMPORARY ACCESS	TEMPORARY CONCRETE BARRIER	TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	PINNING TEMPORARY CONCRETE BARRIER
BEGIN STATION	END STATION	LSUM	TON	FOOT	EACH	EACH
141+55.99	166+16.01	1	2704	600	2	1800
TOTAL		1	2704	600	2	1800

PAVEMENT MARKING SCHEDULE						
LOCATION		X7830070	78009004	70300220	X7830070	X7830090
		MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE SOLID YELLOW)	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE)	TEMPORARY PAVEMENT MARKING - LINE 4"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 25"
BEGIN STATION	END STATION	FOOT	FOOT	FOOT	FOOT	FOOT
141+55.99	146+00.00	888	888	1776	1776	
146+00.00	152+00.00	1200	1200	2400	2400	
152+00.00	158+00.00	1200	1200	2400	2400	
158+00.00	164+00.00	1200	1200	2400	2400	35
164+00.00	166+16.01	432	432	864	864	
SUBTOTAL		4920	4920	9840	9840	
TOTAL			9840	9840	9840	35

LOCATION		42000070
		PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
STATION		SQ YD
159+54.96		44
161+27.96		44
TOTAL		89

NOTE: INLAYING OF PAVEMENT MARKING ACROSS STRUCTURE 072-3061 SHALL NOT BE PERMITTED

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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 20
				CONTRACT NO. 89576
ILLINOIS FED. AID PROJECT				



66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS			
STATION	OFFSET (FT)	LT/RT	EACH
142+08.64	60.00	LT	1
142+50.32	60.00	LT	1
143+00.50	95.00	LT	1
143+50.50	95.00	LT	1
144+19.84	50.00	LT	1
148+00.26	50.00	LT	1
148+42.76	81.00	LT	1
149+40.00	40.00	LT	1
151+94.29	55.46	LT	1
141+83.23	50.00	RT	1
142+45.16	74.23	RT	1
144+36.93	50.00	RT	1
144+80.00	50.00	RT	1
145+03.42	60.40	RT	1
146+98.86	61.64	RT	1
147+30.00	50.00	RT	1
149+77.26	48.13	RT	1
150+79.54	88.82	RT	1
154+72.64	35.57	LT	1
155+98.46	78.42	LT	1
155+98.73	105.33	LT	1
157+32.29	61.08	LT	1
159+35.86	33.00	LT	1
159+38.30	47.85	LT	1
159+99.28	33.00	LT	1
161+64.05	77.64'	LT	1
153+80.00	54.20	RT	1
154+20.66	73.46	RT	1
156+19.15	87.90	RT	1
159+83.53	93.66	RT	1
160+07.41	98.44	LT	1
163+85.79	39.35	RT	1
164+74.87	42.46	RT	1
165+03.41	33.00	RT	1
TOTAL			34

66700205 PERMANENT SURVEY MARKERS, TYPE 1				
LOCATION	TYPE	COORDINATES		EACH
		Y	X	
STA. 148+76.22	PC	1441479.343	2414661.971	1
STA. 150+75.85	PI	1441480.399	2414861.599	1
STA. 152+74.17	PT	1441441.975	2415057.498	1
STA. 155+83.64	PC	1441382.410	2415361.184	1
STA. 157+38.47	PI	1441352.610	2415513.116	1
STA. 158+90.59	PT	1441372.594	2415666.648	1
TOTAL				6

EXISTING SIGN SCHEDULE				
LOCATION			NAME AND NUMBER (IF APPLICABLE)	Z0051500
				REMOVING AND RESETTING
STATION	LT./RT.	LOCATION		EACH
144+21.85	RT	LANCASTER	MAILBOX TURNOUT	1
145+01.73	RT	LANCASTER	SCHOOL BUS STOP / S3-1	1
148+81.82	RT	LANCASTER	CHURCH ENTRANCE	1
155+08.82	RT	LANCASTER	MAILBOX TURNOUT	1
156+45.96	RT	LANCASTER	CHEVRON / W1-8	1
156+74.71	LT	LANCASTER	CHEVRON / W1-8	1
156+83.62	RT	LANCASTER	CHEVRON / W1-8	1
157+35.00	RT	LANCASTER	CHEVRON / W1-8	1
157+90.14	RT	LANCASTER	CHEVRON / W1-8	1
159+46.65	LT	CROY LANE	STOP / R1-1	1
159+77.15	LT	CROY LANE	MAILBOX TURNOUT	1
159+79.14	LT	CROY LANE	MAILBOX TURNOUT	1
159+85.91	LT	LANCASTER	STREET SIGN	1
159+88.65	RT	PRIVATE DRIVE	CHANGEABLE MESSAGE BOARD	1
159+90.00	LT	LANCASTER	TYPE 3 OBJECT MARKER / OM3-L	1
160+88.50	LT	LANCASTER	TYPE 3 OBJECT MARKER / OM3-R	1
161+39.30	LT	LANCASTER	CHEVRON / W1-8	1
161+39.56	RT	LANCASTER	CHEVRON / W1-8	1
161+69.30	LT	LANCASTER	CHEVRON / W1-8	1
161+69.56	RT	LANCASTER	CHEVRON / W1-8	1
161+95.36	LT	LANCASTER	CHURCH ENTRANCE	1
164+21.04	RT	LANCASTER	MAILBOX TURNOUT	1
164+91.12	RT	LANCASTER	NO PASSING ZONE / W14-3	1
165+79.41	LT	LANCASTER	REVERSE CRUVE / W1-4	1
165+83.25	LT	LANCASTER	NO TRESPASSING SIGN	1
TOTAL				25

PROPOSED SIGN SCHEDULE					
LOCATION			72000100	72800100	
			SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN	
STATION	OFFSET	Road	NAME/NUMBER	SQ FT	FOOT
138+00.00	22' RT.	LANCASTER	REDUCED SPEED LIMIT AHEAD / W3-5	9	14
143+00.00	22' RT.	LANCASTER	SPEED LIMIT / R2-1	7.5	14
158+60.35	22' LT.	LANCASTER	STOP / R1-0	9	14
159+06.81	18.5' RT.	LANCASTER	STOP / R1-1	9	14
164+50.00	22' LT.	LANCASTER	SPEED LIMIT / R2-2	7.5	14
169+50.00	22' LT.	LANCASTER	REDUCED SPEED LIMIT AHEAD / W3-5	9	14
TOTAL				51	84

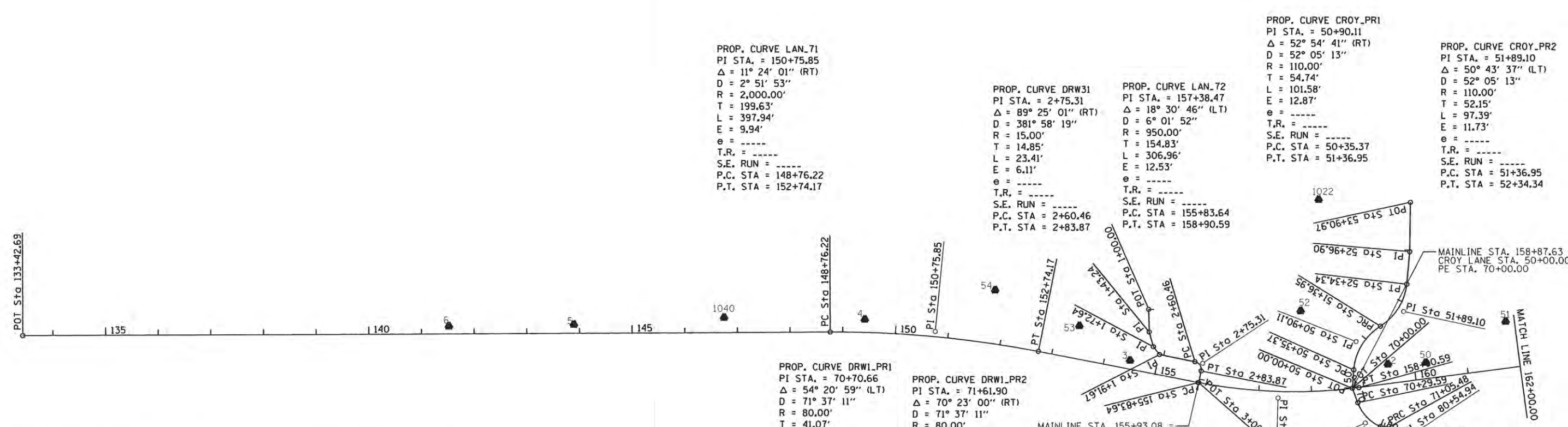
MOBILIZATION SCHEDULE		
LOCATION		67100100
		MOBILIZATION
BEGIN STATION	END STATION	LSUM
141+55.99	166+16.01	1
TOTAL		1

CONSTRUCTION LAYOUT SCHEDULE		
LOCATION		Z0013798
		CONSTRUCTION LAYOUT
BEGIN STATION	END STATION	LSUM
141+55.99	166+16.01	1
TOTAL		1

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	PLOT SCALE = 2,0000' / 1" =	CHECKED - KSD	REVISED -			SCALE: NTS	SHEET 6 OF 6 SHEETS	STA. TO STA.	CONTRACT NO. 89676	
	PLOT DATE = 7/13/2016	DATE - 07/13/16	REVISED -							





PROPOSED DRIVEWAY 1			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	70+00.00	1441371.153	2415654.348
PC	70+29.59	1441343.426	2415664.689
PI	70+70.66	1441304.946	2415679.043
PRC	71+05.48	1441294.182	2415718.678
PI	71+61.90	1441279.395	2415773.122
PT	72+03.75	1441224.204	2415777.383
POT	72+37.99	1441223.147	2415777.472
POT	73+39.91	1441087.917	2415787.158

PRIVATE DRIVEWAY			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	1+00.00	1441522.613	2415267.129
PI	1+43.24	1441479.394	2415268.276
PI	1+72.64	1441451.057	2415276.134
PI	1+91.67	1441435.989	2415287.756
PC	2+60.46	1441422.156	2415355.143
PI	2+75.31	1441419.170	2415369.688
PT	2+83.87	1441404.596	2415366.850
POT	3+06.73	1441382.157	2415362.481

LANCASTER RD			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	133+42.69	1441471.231	2413128.461
PC	148+76.22	1441479.343	2414661.971
PI	150+75.85	1441480.399	2414861.599
PT	152+74.17	1441441.975	2415057.498
PC	155+83.64	1441382.410	2415361.184
PI	157+38.47	1441352.610	2415513.116
PT	158+90.59	1441372.594	2415666.648
POT	166+34.63	1440483.861	2415922.983

PROPOSED DRIVEWAY 2			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
PC	80+00.00	1441298.083	2415707.601
PI	80+54.94	1441276.075	2415757.946
PT	80+96.29	1441221.186	2415755.477
POT	81+30.37	1441187.138	2415753.945
POT	82+29.98	1441087.539	2415755.123

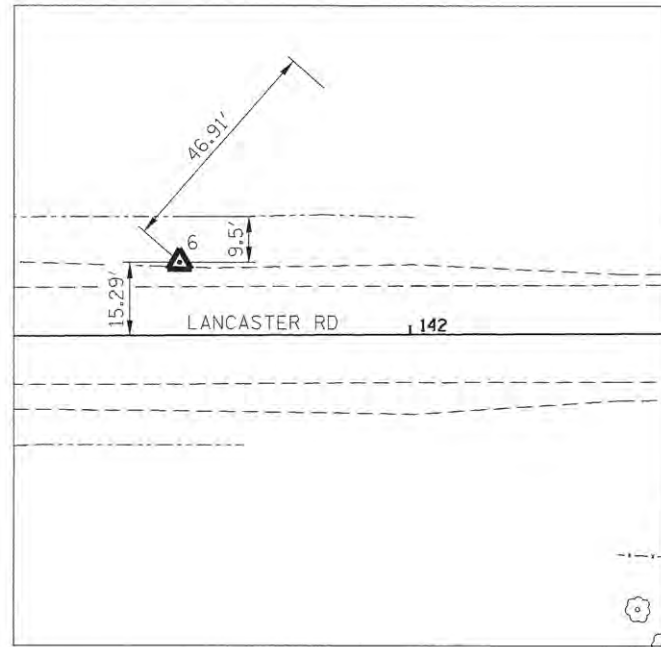
Bench Mark	Elevation	Description	STATION
BM#1	529.610	RR SPIKE IN PP	STA. 163+21.23, 23' RT
BM#2	530.690	CHSL SQ IN NW WINGWALL	STA. 159+88.34, 12.8' LT

POINT	NORTHING	EASTING	ELEVATION	STATION
CPH#1	1441406.820	2416150.556	528.86	STA. 163+74.87, 28.5' RT
CPH#2	1441417.528	2415721.741	528.53	STA. 159+88.34, 12.8' LT
CPH#3	1441424.930	2415231.672	541.13	STA. 159+49.39, 10.4' LT
CPH#4	1441503.498	2414727.607	581.04	STA. 149+41.90, 26.7' LT
CPH#5	1441493.812	2414175.091	611.02	STA. 143+90.47, 17.0' LT
CPH#6	1441490.800	2413937.879	616.77	STA. 141.53.25, 15.3' LT
CHP#50	1441420.569	2415793.974	511.49	STA. 160+23.05, 31.1' LT.
CPH#51	1441499.059	2415945.560	562.07	STA. 161+83.50, 89.4' LT.
CHP#52	1441519.952	2415555.924	521.09	STA. 157+81.85, 155.2' LT.
CHP#53	1441491.386	2415135.483	542.74	STA. 153+41.18, 63.5' LT.
CHP#54	1441559.358	2414975.232	538.55	STA. 151+75.81, 101.9' LT.
CHP#1040	1441507.590	2414460.296	601.02	STA. 146+74.70, 29.3' LT.

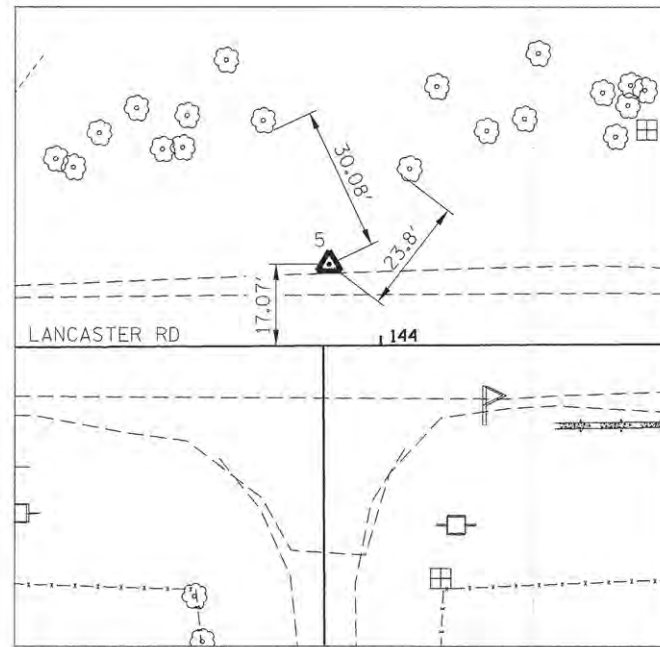
CROY LANE			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	50+00.00	1441371.153	2415654.348
PC	50+35.37	1441406.424	2415656.978
PI	50+90.11	1441460.990	2415661.315
PRC	51+36.95	1441490.437	2415707.458
PI	51+89.10	1441518.488	2415751.415
PT	52+34.34	1441570.275	2415757.525
PI	52+96.90	1441632.585	2415763.079
POT	53+90.97	1441726.647	2415764.266

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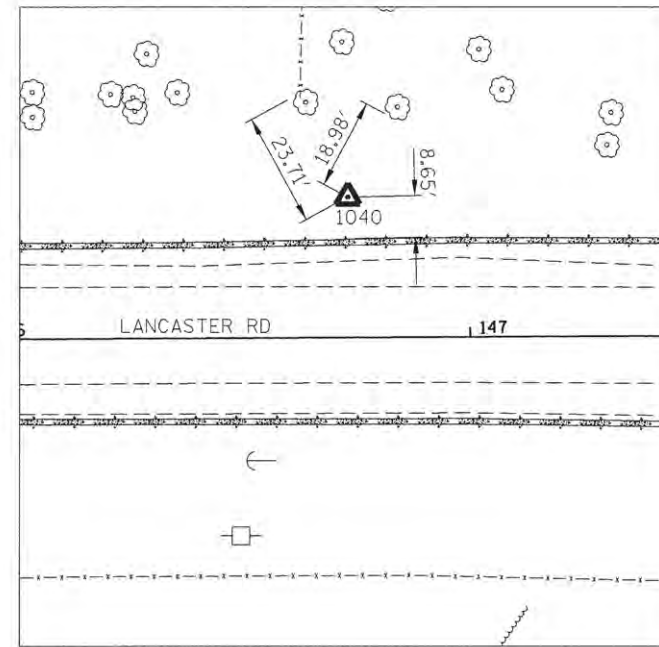
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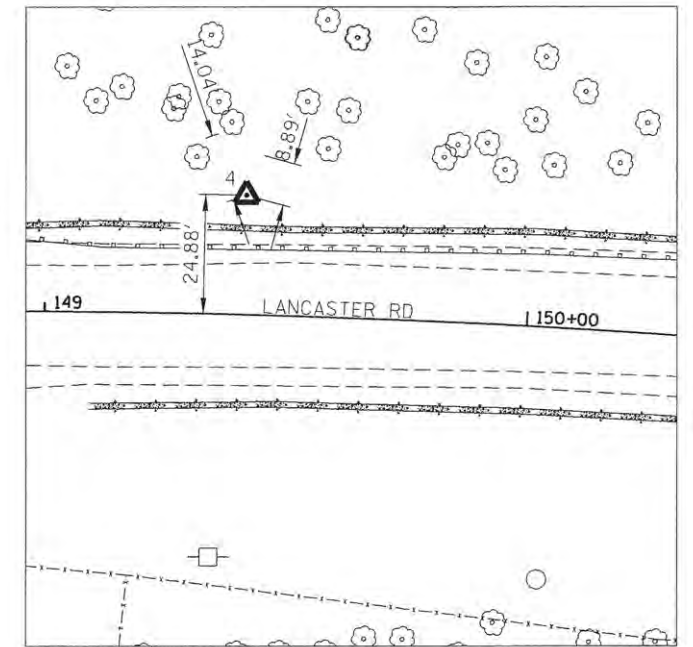
CONTROL POINT # 6  
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STA. 141+53.25 15.3' LT.  
X=2413937.879 Y=1441490.800



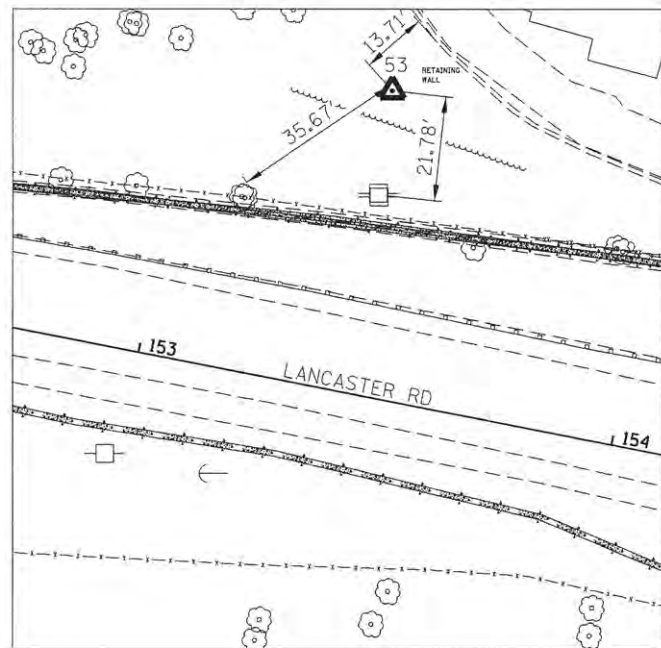
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STA. 143+90.47 17.0' LT.  
X=2414175.091 Y=1441493.812



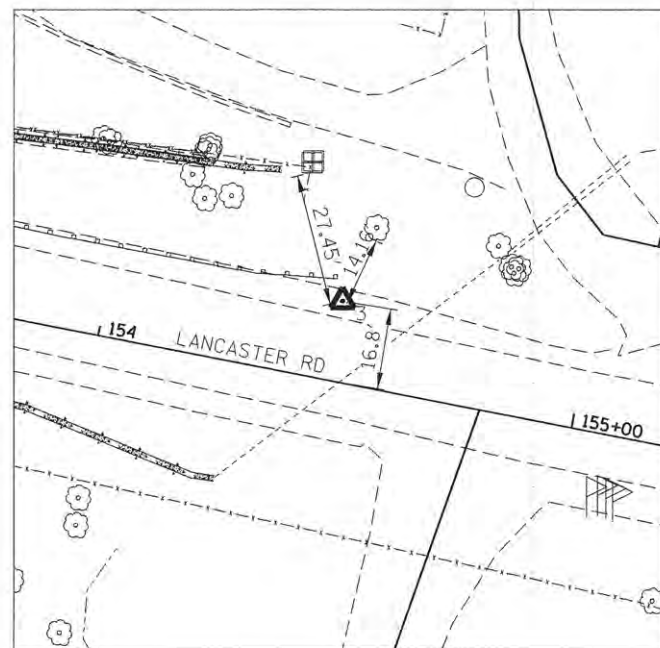
CONTROL POINT # 1040  
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STA. 146+74.70 29.3' LT.  
X=2414460.296 Y=1441507.590



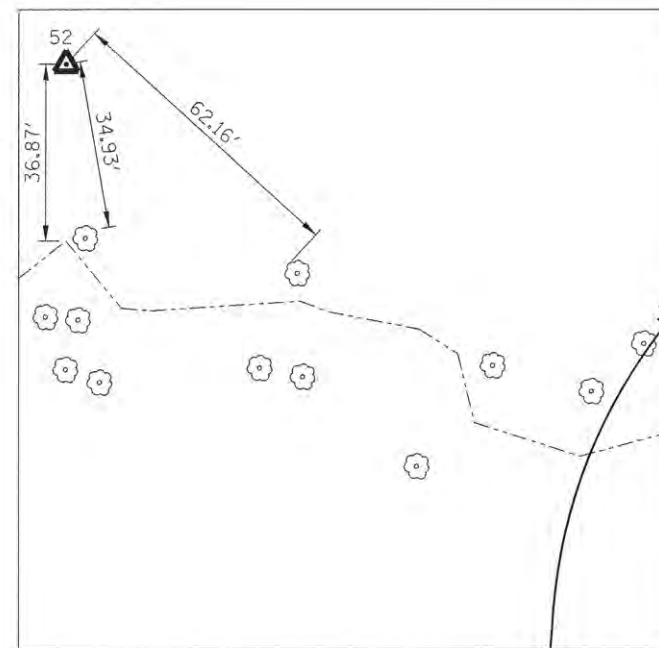
CONTROL POINT # 4  
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STA. 149+41.90 26.7' LT.  
X=2414727.607 Y=1441503.498



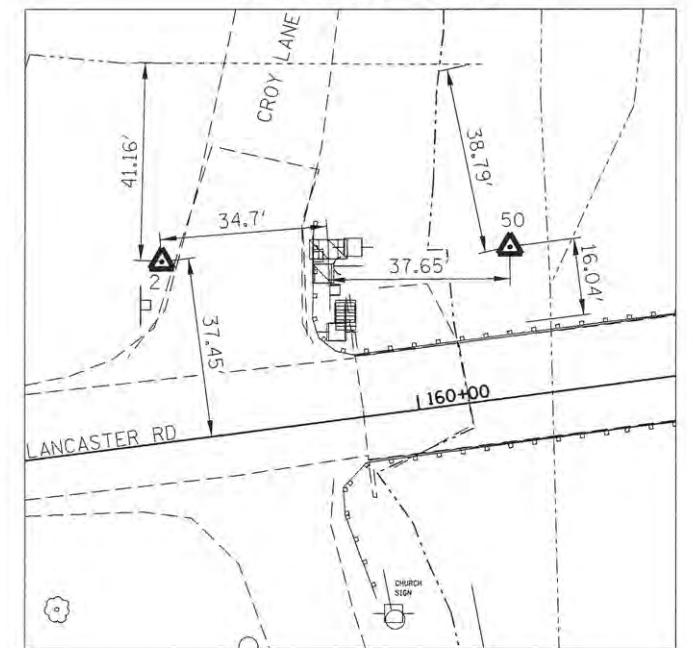
CONTROL POINT # 53  
TIES TO 53, REBAR  
STA. 153+41.18 63.5' LT.  
X=2415135.483 Y=1441491.386



CONTROL POINT # 3  
TIES TO 3, REBAR  
STA. 159+49.39 10.4' LT.  
X=2415231.672 Y=1441424.930



CONTROL POINT # 52  
TIES TO 52, REBAR  
STA. 157+81.85 155.2' LT.  
X=2415231.672 Y=1441424.930



CONTROL POINT # 2  
TIES TO 2, REBAR  
STA. 159+88.34 12.8' LT.  
X=2415721.741 Y=1441417.528

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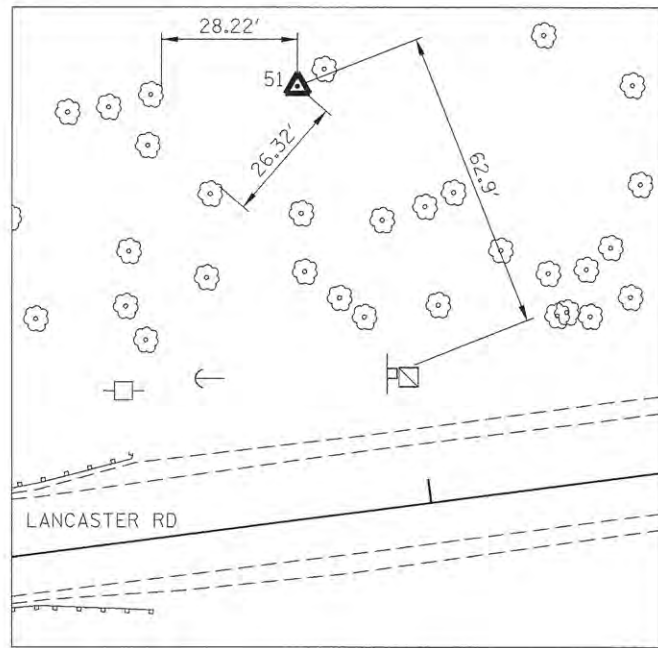
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	DATE - 07/13/16	REVISED -

STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

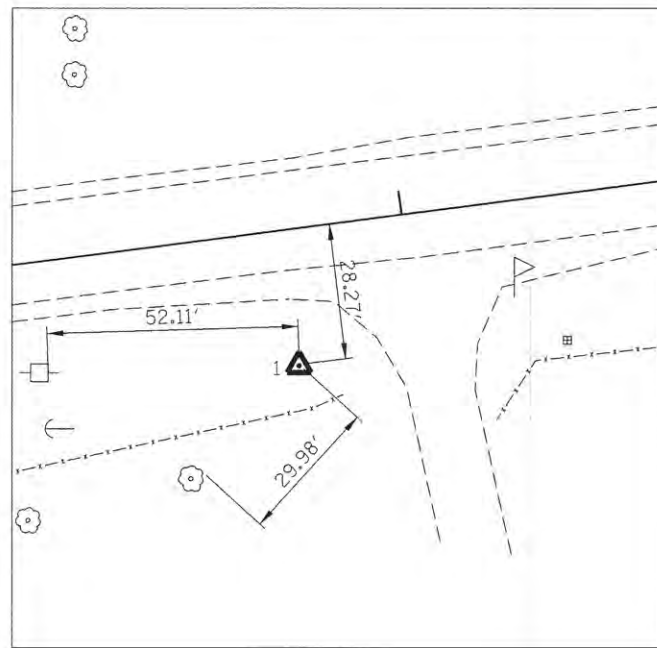
LANCASTER ROAD OVER W LAMARSH CREEK  
ALIGNMENT, TIES AND BENCHMARKS

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

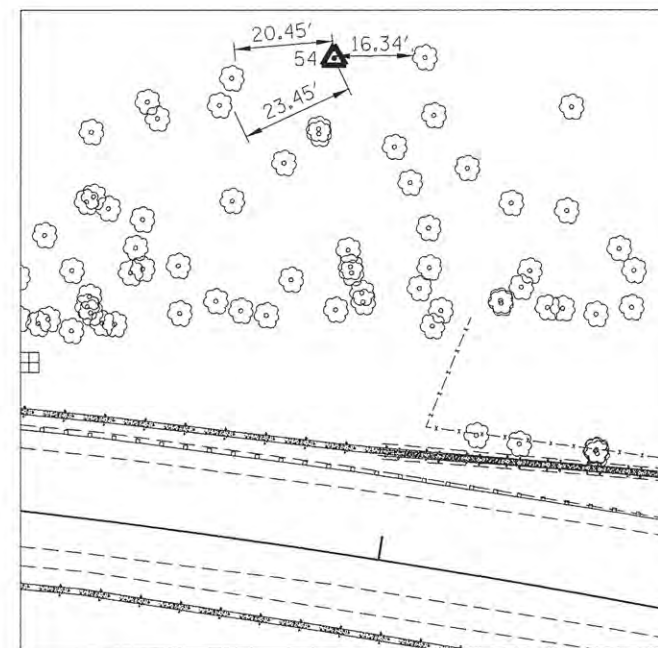
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CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



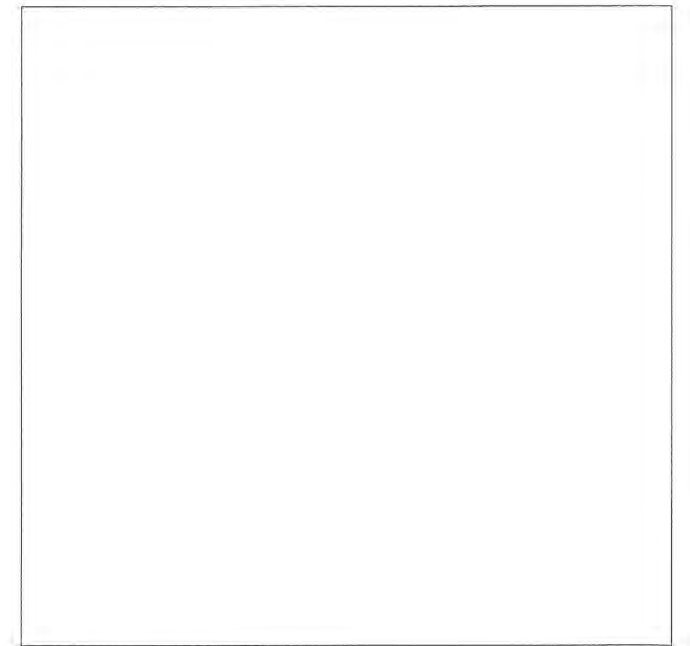
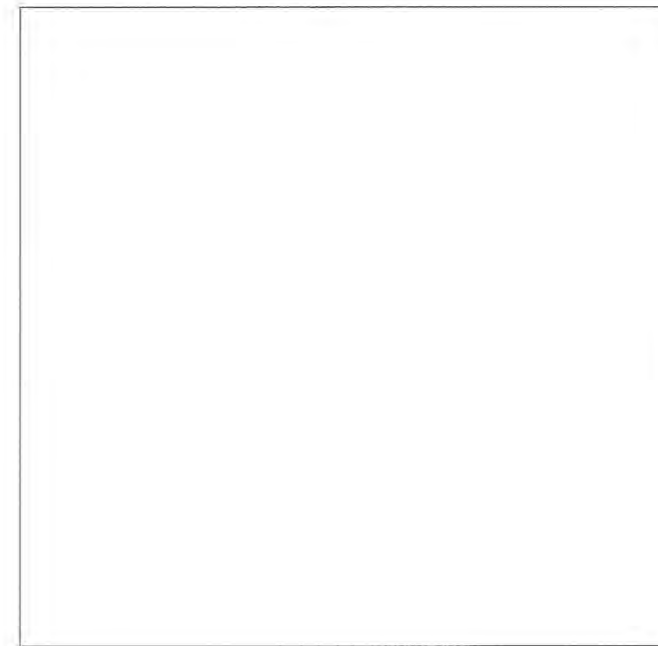
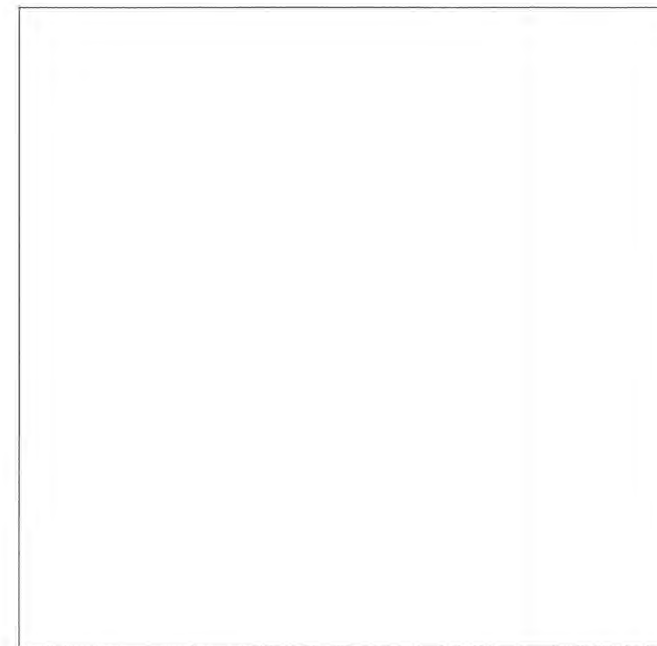
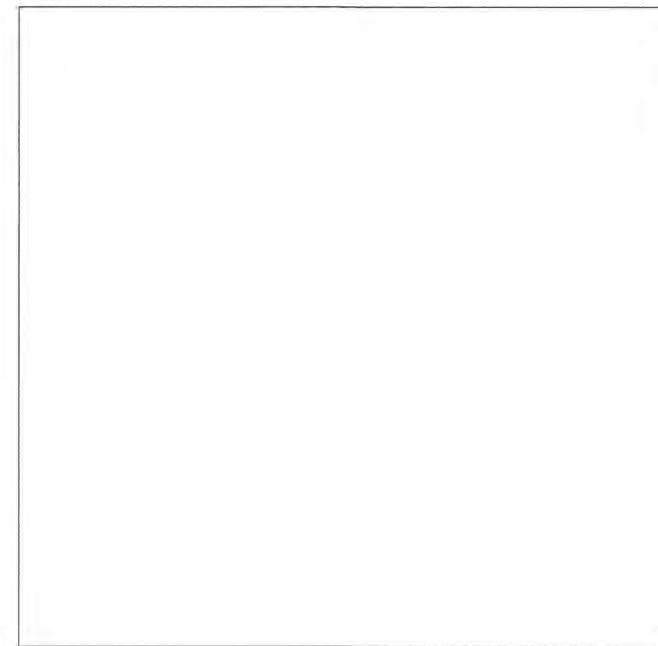
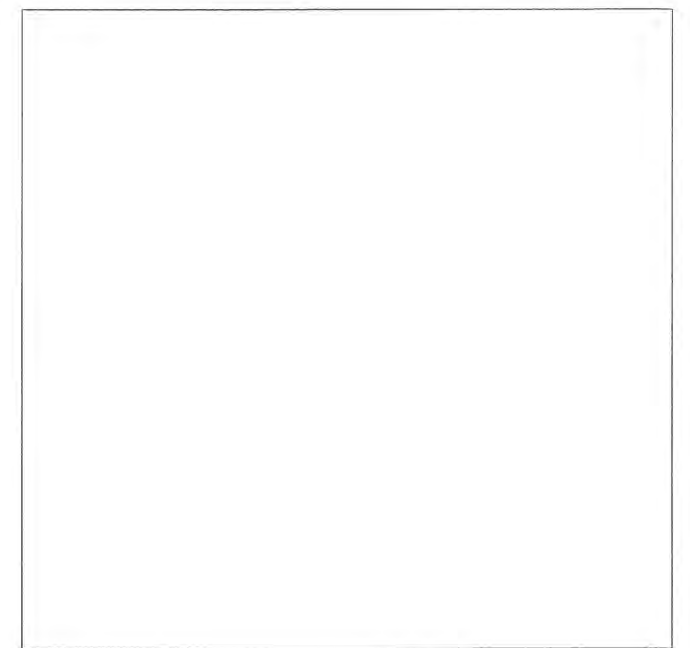
CONTROL POINT # 51  
 TIES TO 51, REBAR  
 STA. 161+83.501 89.4' LT.  
 X=2415945.560 Y=1441499.059



CONTROL POINT # 1  
 TIES TO 1, REBAR  
 STA. 163+74.87 28.5' LT.  
 X=2416150.556 Y=1441406.820



CONTROL POINT # 54  
 TIES TO 54, REBAR  
 STA. 151+75.81 101.9' LT.  
 X=2414975.232 Y=1441559.358



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STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
 ALIGNMENT, TIES AND BENCHMARKS

SCALE: NTS SHEET 3 OF 3 SHEETS STA. TO STA.

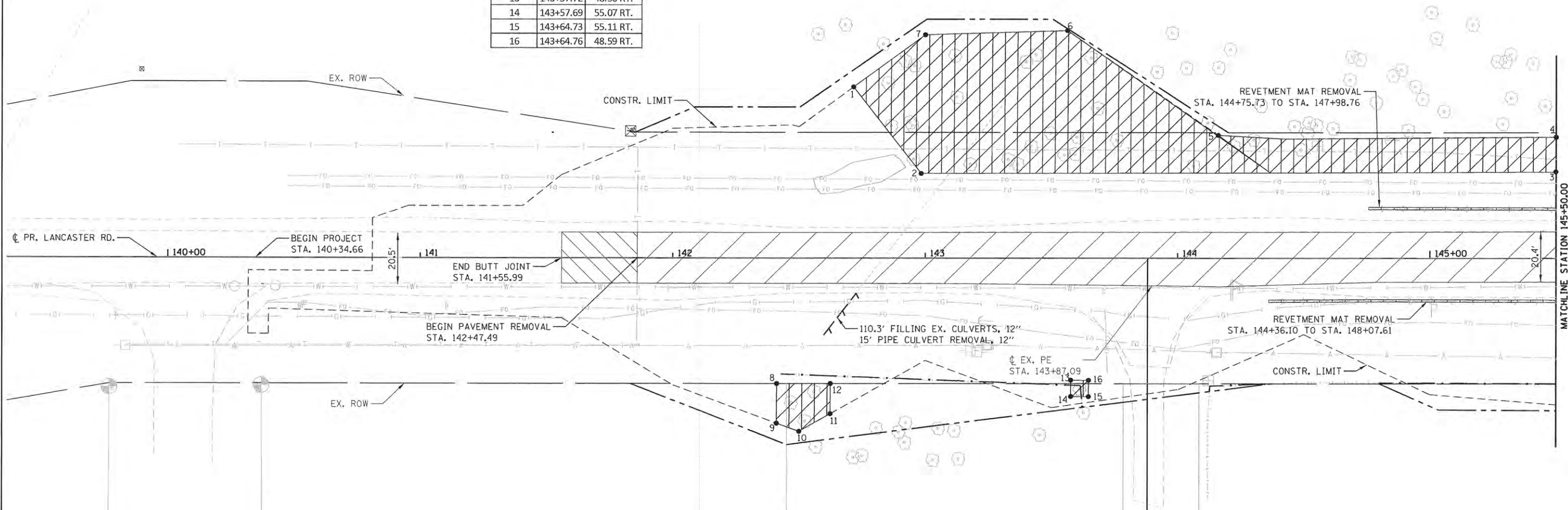
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	24
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	





TREE REMOVAL		
POINT	STATION	OFFSET (FT)
1	142+71.53	68.00 LT.
2	142+98.35	33.67 LT.
3	145+50.00	34.35 LT.
4	145+50.00	48.20 LT.
5	144+15.98	48.97 LT.
6	143+56.28	90.55 LT.
7	143+00.00	88.85 LT.
8	142+41.21	49.97 RT.
9	142+41.14	65.80 RT.
10	142+50.00	69.03 RT.
11	142+62.41	62.01 RT.
12	142+62.48	49.97 RT.
13	143+57.72	48.56 RT.
14	143+57.69	55.07 RT.
15	143+64.73	55.11 RT.
16	143+64.76	48.59 RT.

SEE RIGHT-OF-WAY PLANS FOR DIMENSIONS/LOCATIONS OF PROPOSED ROW AND EASEMENTS



**LEGEND**

	BUTT JOINT REMOVAL		EXISTING RIPRAP REMOVAL (CONCRETE MAT)
	PAVEMENT REMOVAL		TREE REMOVAL
	REVTMENT MAT REMOVAL		
	PIPE CULVERT REMOVAL		
	GUARDRAIL REMOVAL		
	FENCE REMOVAL		

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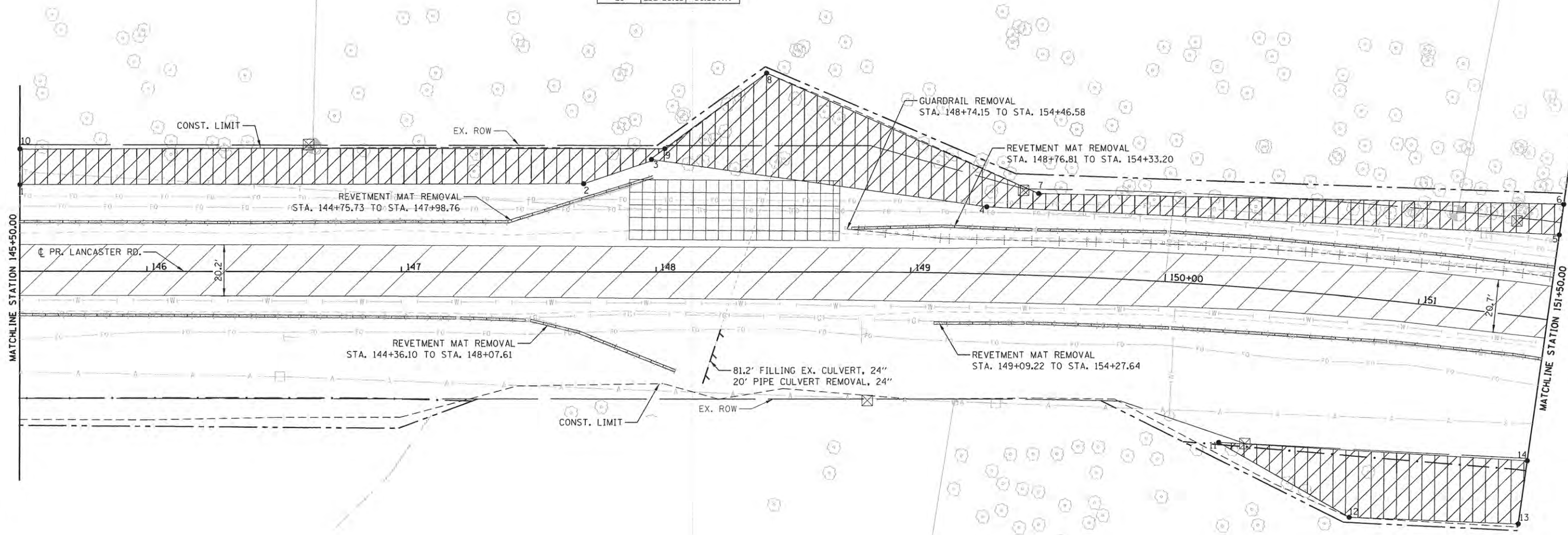
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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER ROAD REMOVAL PLAN  
SCALE: 1"=20' SHEET 1 OF 6 SHEETS STA. 141+55.99 TO STA. 145+50

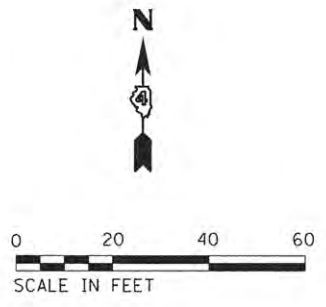
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	

TREE REMOVAL		
POINT	STATION	OFFSET (FT)
1	139+50.00	157.91 LT.
2	141+71.51	157.27 LT.
3	147+97.75	44.59 LT.
4	149+29.21	26.58 LT.
5	151+50.00	33.73 LT.
6	151+50.00	45.94 LT.
7	149+49.06	32.47 LT.
8	148+43.29	78.52 LT.
9	142+03.41	143.45 LT.
10	139+50.00	144.06 LT.
7	150+25.85	61.73 RT.
8	150+81.69	86.64 RT.
9	151+50.00	81.53 RT.
10	151+50.00	56.33 RT.



**LEGEND**

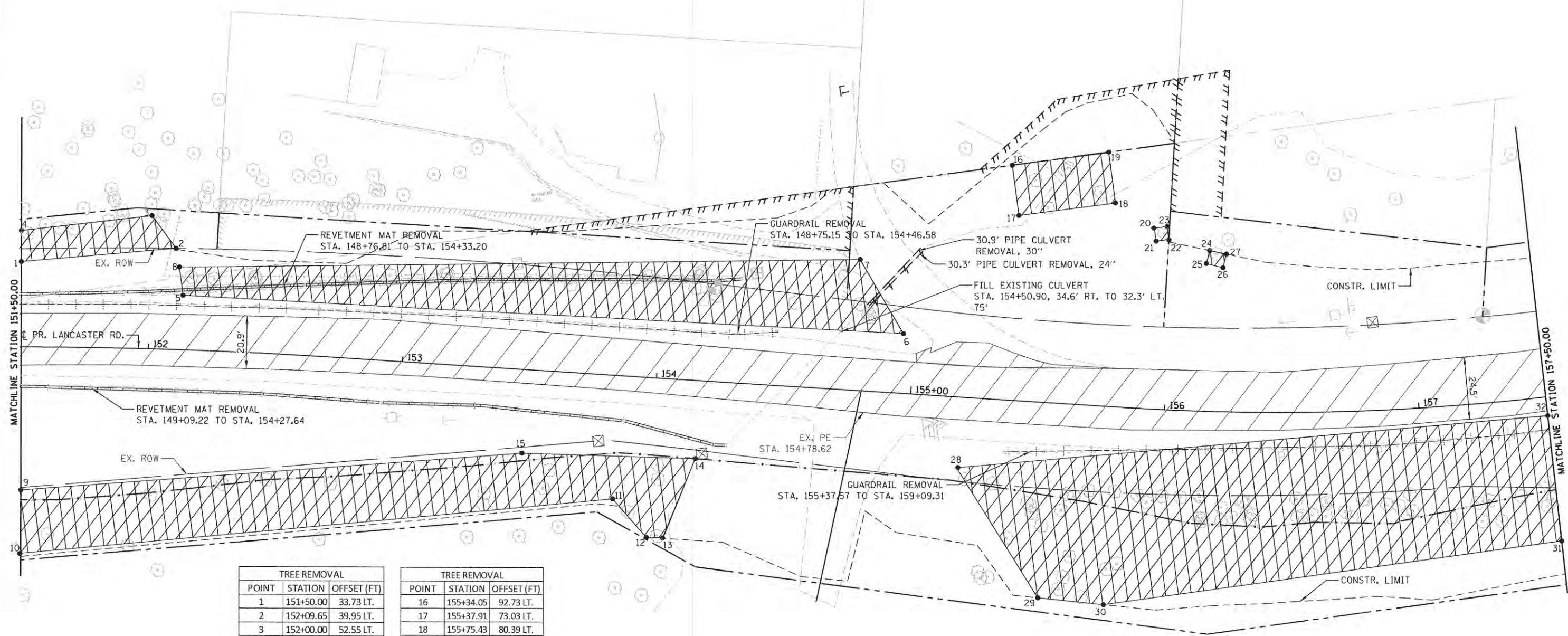
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	PAVEMENT REMOVAL		TREE REMOVAL
	REVETMENT MAT REMOVAL		
	PIPE CULVERT REMOVAL		
	GUARDRAIL REMOVAL		
	FENCE REMOVAL		



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	PLOT DATE = 7/13/2016	DATE - 07/13/16	REVISED -							



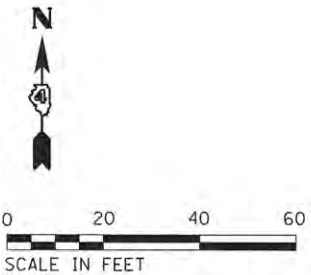


TREE REMOVAL		
POINT	STATION	OFFSET (FT)
1	151+50.00	33.73 LT.
2	152+09.65	39.95 LT.
3	152+00.00	52.55 LT.
4	151+50.00	45.95 LT.
5	152+12.95	21.55 LT.
6	154+95.62	23.56 LT.
7	154+76.79	51.80 LT.
8	152+11.15	32.65 LT.
9	151+50.00	56.33 RT.
10	151+50.00	81.53 RT.
11	153+85.84	48.70 RT.
12	154+00.00	63.00 RT.
13	154+06.59	63.00 RT.
14	154+17.21	30.74 RT.
15	153+49.15	32.94 RT.

TREE REMOVAL		
POINT	STATION	OFFSET (FT)
16	155+34.05	92.73 LT.
17	155+37.91	73.03 LT.
18	155+75.43	80.39 LT.
19	155+71.53	100.29 LT.
20	155+92.01	71.40 LT.
21	155+93.04	66.31 LT.
22	155+98.35	67.11 LT.
23	155+97.36	72.31 LT.
24	156+15.98	63.48 LT.
25	156+14.57	58.36 LT.
26	156+21.54	56.91 LT.
27	156+22.84	62.31 LT.
28	155+19.86	27.82 RT.
29	155+55.01	77.14 RT.
30	155+80.70	78.21 RT.
31	157+50.00	57.18 RT.
32	157+50.00	7.38 RT.

**LEGEND**

- BUTT JOINT REMOVAL
- EXISTING RIPRAP REMOVAL (CONCRETE MAT)
- PAVEMENT REMOVAL
- TREE REMOVAL
- REVETMENT MAT REMOVAL
- PIPE CULVERT REMOVAL
- GUARDRAIL REMOVAL
- FENCE REMOVAL



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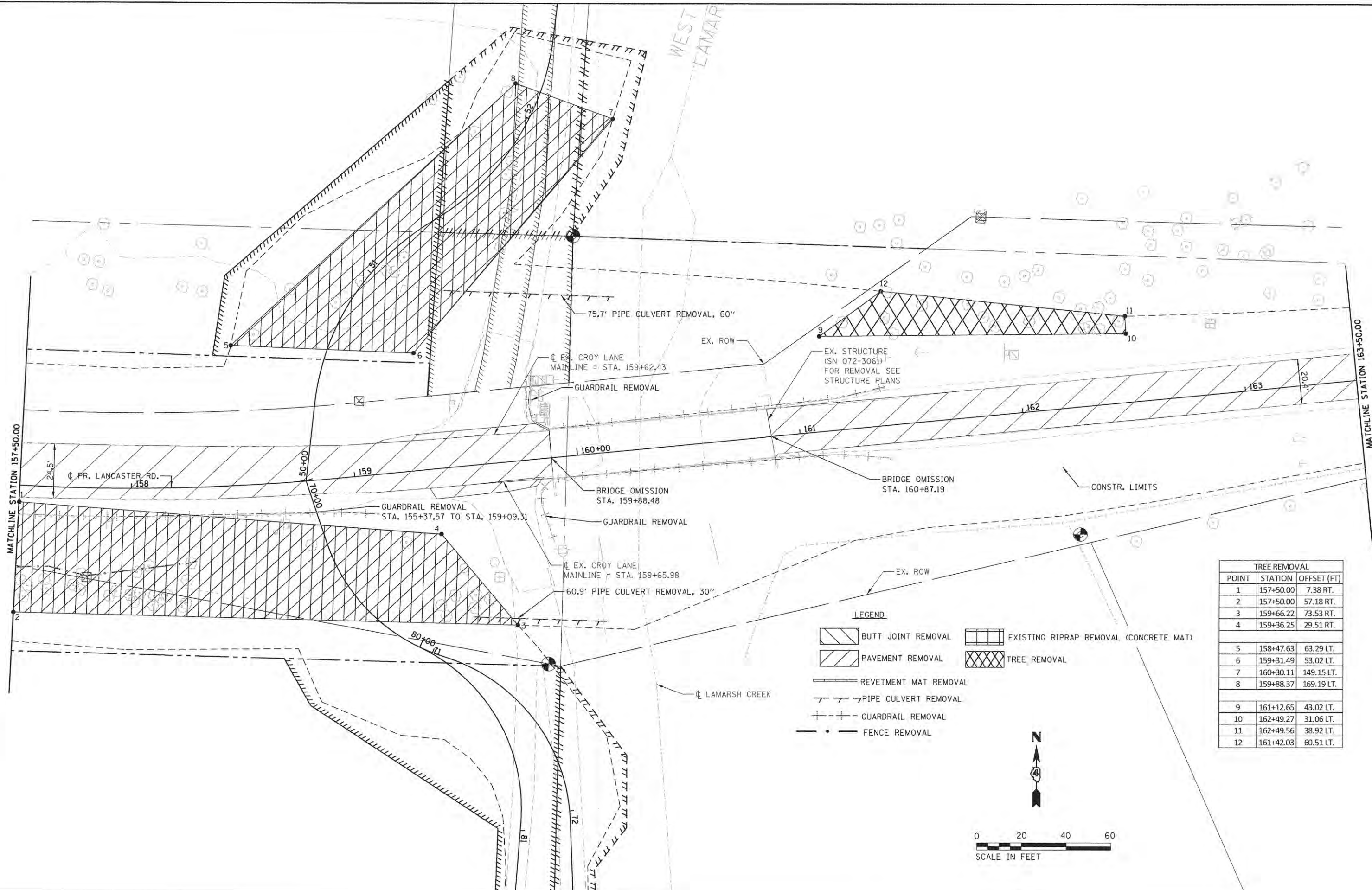
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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER ROAD REMOVAL PLAN**  
 SCALE: 1"=20' SHEET 3 OF 6 SHEETS STA. 151+50 TO STA. 157+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	27
			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				





TREE REMOVAL		
POINT	STATION	OFFSET (FT)
1	157+50.00	7.38 RT.
2	157+50.00	57.18 RT.
3	159+66.22	73.53 RT.
4	159+36.25	29.51 RT.
5	158+47.63	63.29 LT.
6	159+31.49	53.02 LT.
7	160+30.11	149.15 LT.
8	159+88.37	169.19 LT.
9	161+12.65	43.02 LT.
10	162+49.27	31.06 LT.
11	162+49.56	38.92 LT.
12	161+42.03	60.51 LT.

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**TERRA**  
 ENGINEERING LTD.

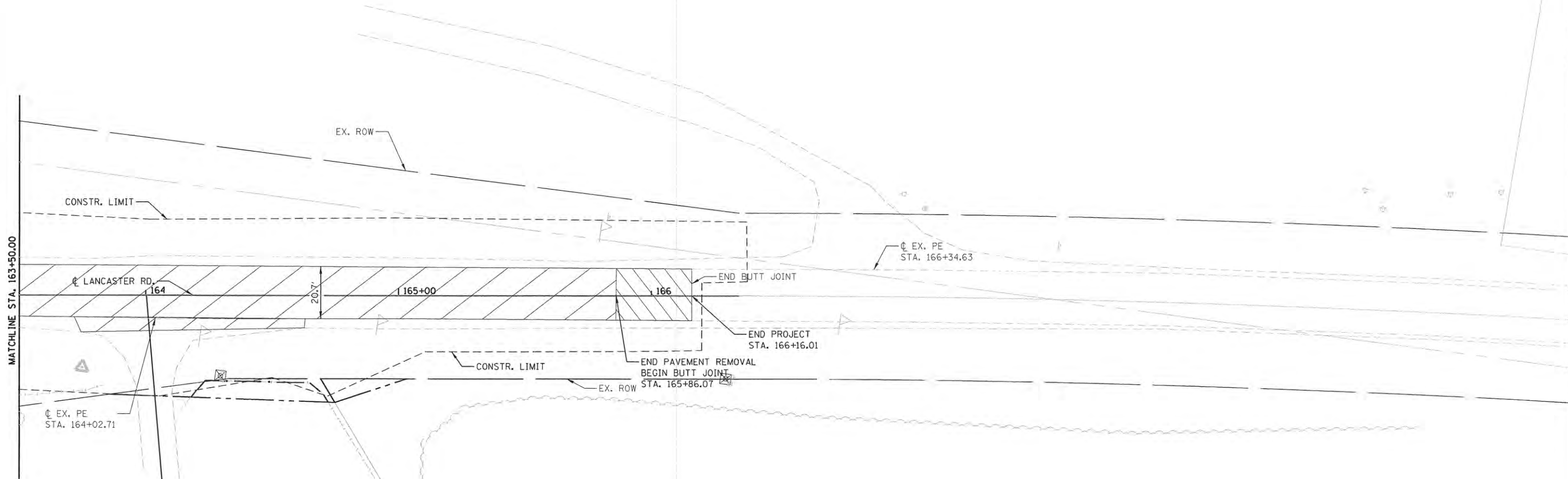
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







**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER ROAD REMOVAL PLAN**

SCALE: 1"=20'    SHEET 4 OF 6 SHEETS    STA. 157+50 TO STA. 163+50

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 28
			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				



- LEGEND**
-  BUTT JOINT REMOVAL
  -  EXISTING RIPRAP REMOVAL (CONCRETE MAT)
  -  PAVEMENT REMOVAL
  -  TREE REMOVAL
  -  REVETMENT MAT REMOVAL
  -  PIPE CULVERT REMOVAL
  -  GUARDRAIL REMOVAL
  -  FENCE REMOVAL



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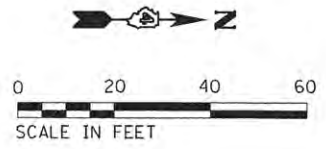
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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

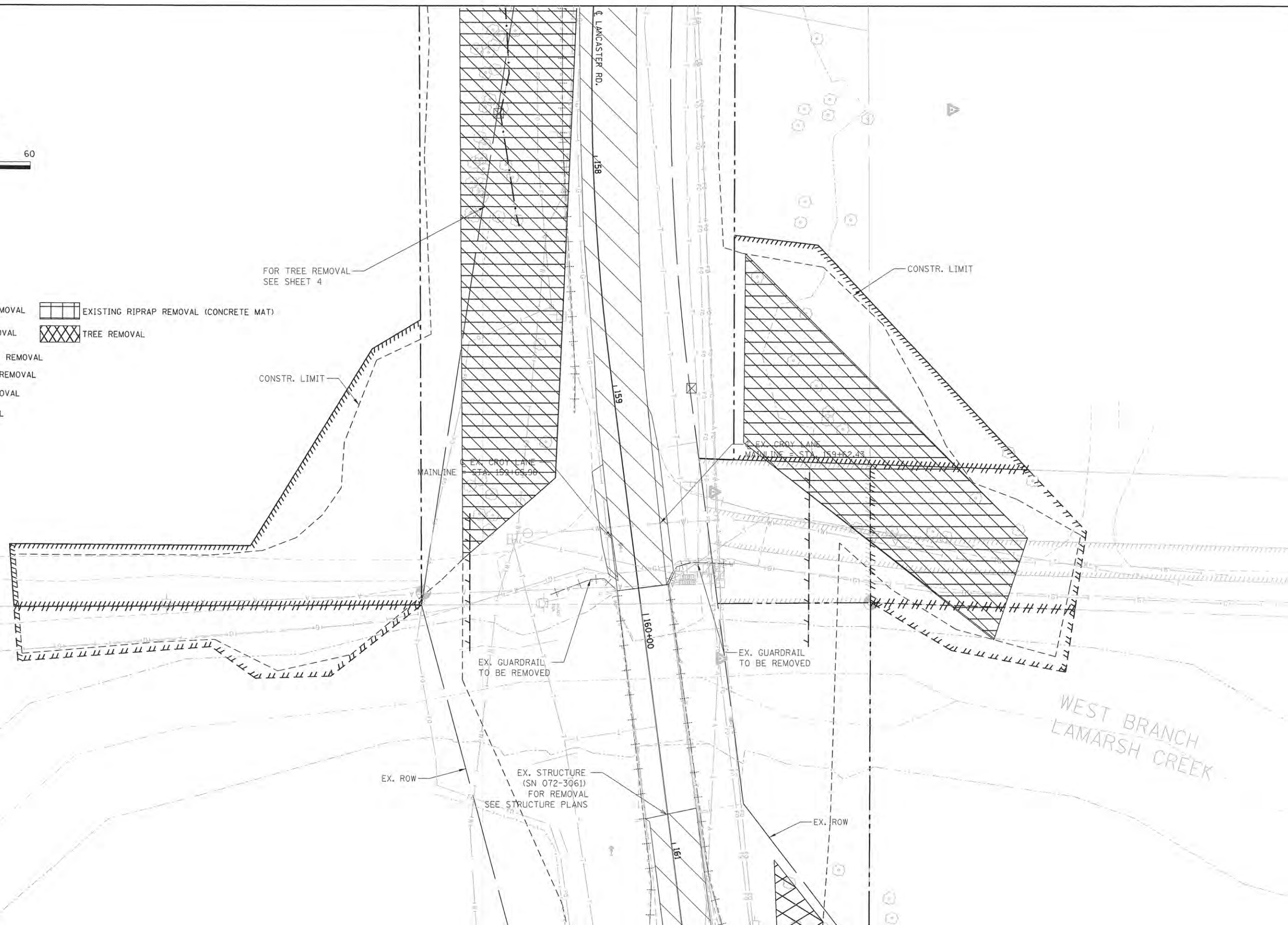
LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER ROAD REMOVAL PLAN

SCALE: 1"=20' SHEET 5 OF 6 SHEETS STA. 163+50 TO STA. 166+16.01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	29
CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- BUTT JOINT REMOVAL
  - EXISTING RIPRAP REMOVAL (CONCRETE MAT)
  - PAVEMENT REMOVAL
  - TREE REMOVAL
  - REVETMENT MAT REMOVAL
  - PIPE CULVERT REMOVAL
  - GUARDRAIL REMOVAL
  - FENCE REMOVAL



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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**CROY LANE PRIVATE ENTRANCES REMOVAL PLAN**

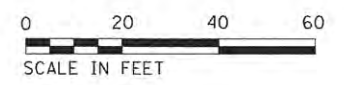
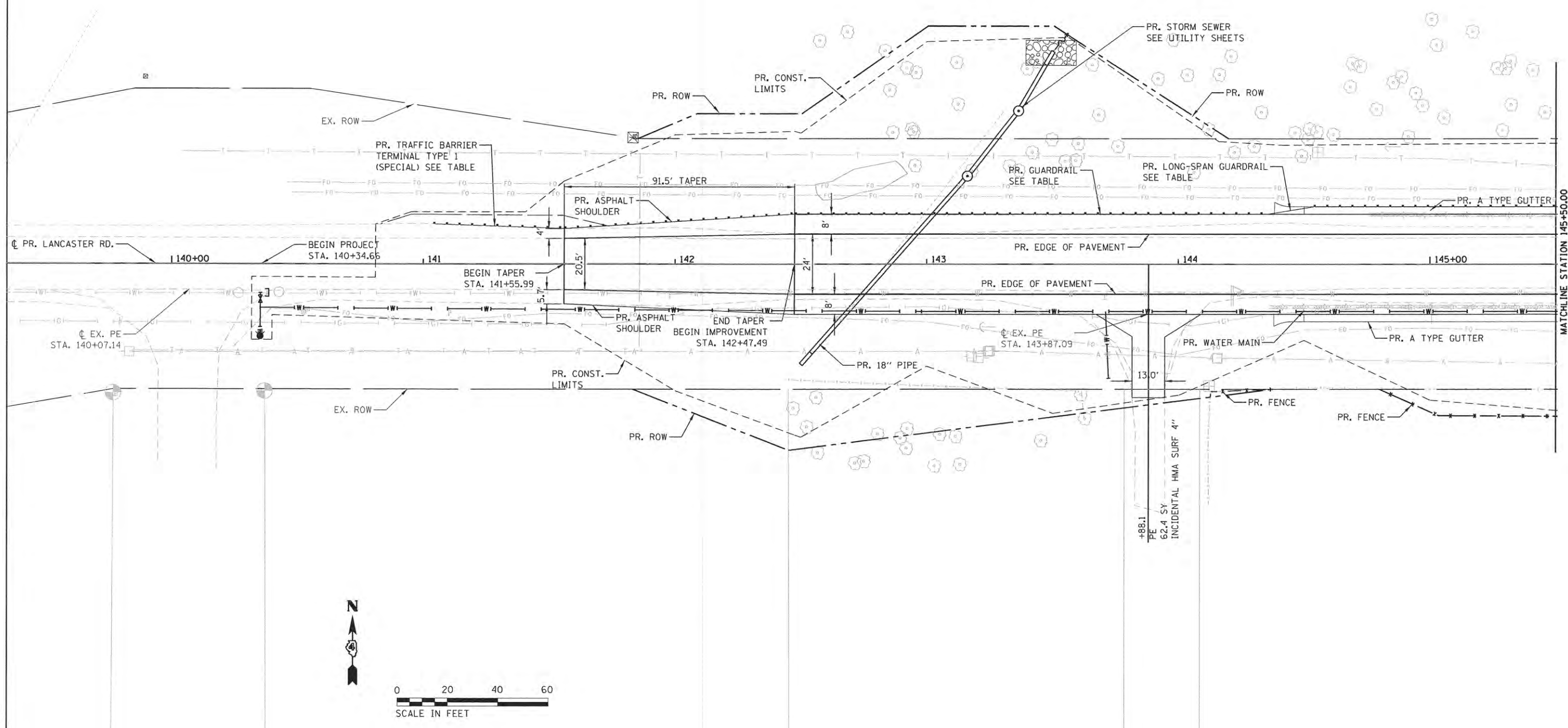
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F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 30
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



SEE RIGHT-OF-WAY PLANS FOR DIMENSIONS/LOCATIONS OF PROPOSED ROW AND EASEMENTS

GUARDRAIL SCHEDULE			
TYPE	STATION	TO STATION	OFFSET
TERMINAL TYPE 1 (SPECIAL)	141+04.00	141+54.00	LT.
STEEL BEAM GUARDRAIL	141+54.00	143+60.25	LT.
LONG-SPAN GUARDRAIL	143+60.25	145+28.83	LT.
STEEL BEAM GUARDRAIL	145+28.83	145+50.00	LT.



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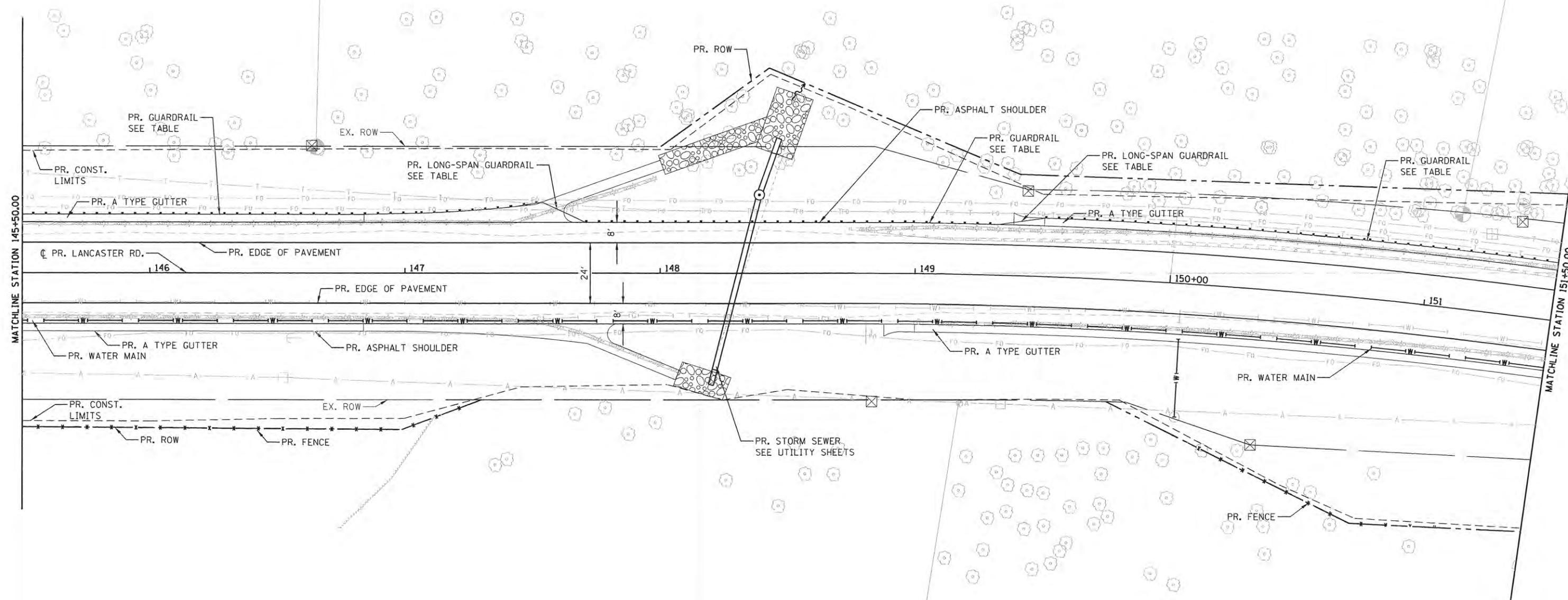
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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER ROAD PROPOSED PLAN**  
 SCALE: 1"=20' SHEET 1 OF 6 SHEETS STA. 141+55.99 TO STA. 145+50

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 31
CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE			
TYPE	STATION	TO STATION	OFFSET
STEEL BEAM GUARDRAIL	145+50.00	146+78.46	LT.
LONG-SPAN GUARDRAIL	146+78.46	148+45.55	LT.
STEEL BEAM GUARDRAIL	148+45.55	148+57.05	LT.
LONG-SPAN GUARDRAIL	148+57.05	150+25.18	LT.
STEEL BEAM GUARDRAIL	150+25.18	151+50.00	LT.



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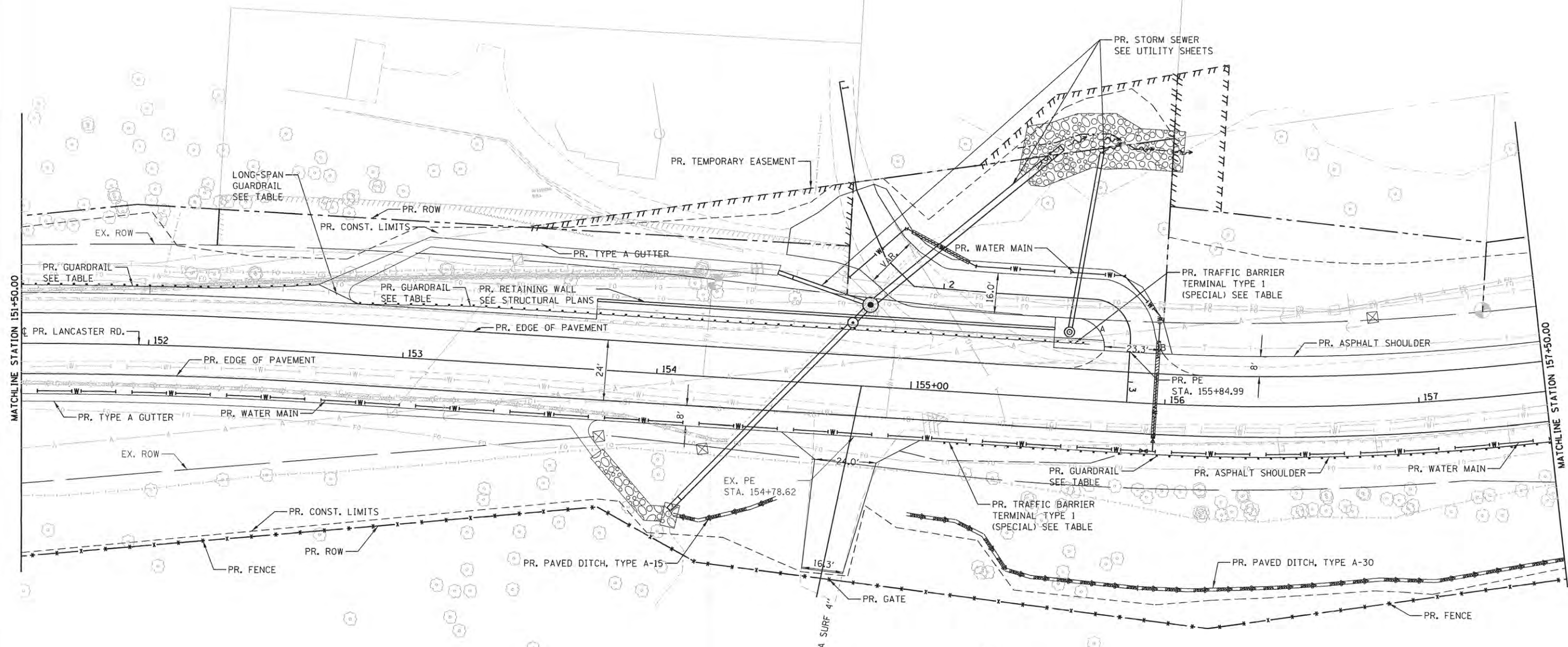
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STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER ROAD PROPOSED PLAN**  
 SCALE: 1"=20' SHEET 2 OF 6 SHEETS STA. 145+50 TO STA. 151+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	32
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				



GUARDRAIL SCHEDULE			
TYPE	STATION	STATION	OFFSET
STEEL BEAM GUARDRAIL	151+50.00	151+87.68	LT.
LONG-SPAN GUARDRAIL	151+87.68	153+56.55	LT.
STEEL BEAM GUARDRAIL	153+56.55	155+19.05	LT.
TERMINAL TYPE 1 (SPECIAL)	155+19.05	155+69.05	LT.
TERMINAL TYPE 1 (SPECIAL)	155+13.20	155+63.20	RT.
STEEL BEAM GUARDRAIL	155+63.20	157+50.00	RT.

DRIVEWAY RADIUS TABLE			
POINT	STATION	RADIUS	OFFSET (FT)
A	155+63.41	11.5	20.65
B	156+14.95	20.0	32.0

+80.57  
PE  
142.8 SY  
INCIDENTAL HMA SURF 4"

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**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

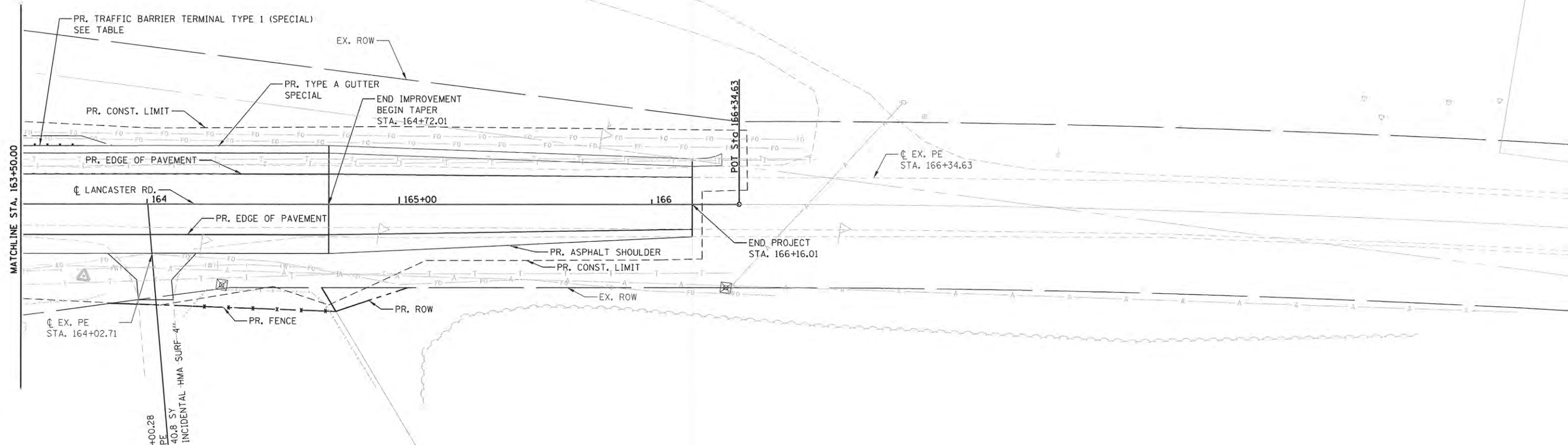
**LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER ROAD PROPOSED PLAN**

SCALE: 1"=20' SHEET 3 OF 6 SHEETS STA. 151+50 TO STA. 157+50

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 33
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	







GUARDRAIL SCHEDULE		
TYPE	STATION TO STATION	OFFSET
TERMINAL TYPE 1 (SPECIAL)	163+50.00 163+75.79	LT.



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	DATE - 07/13/16	REVISED -

**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER ROAD PROPOSED PLAN**

SCALE: 1"=20'    SHEET 5 OF 6 SHEETS    STA. 163+50 TO STA. 166+16.01

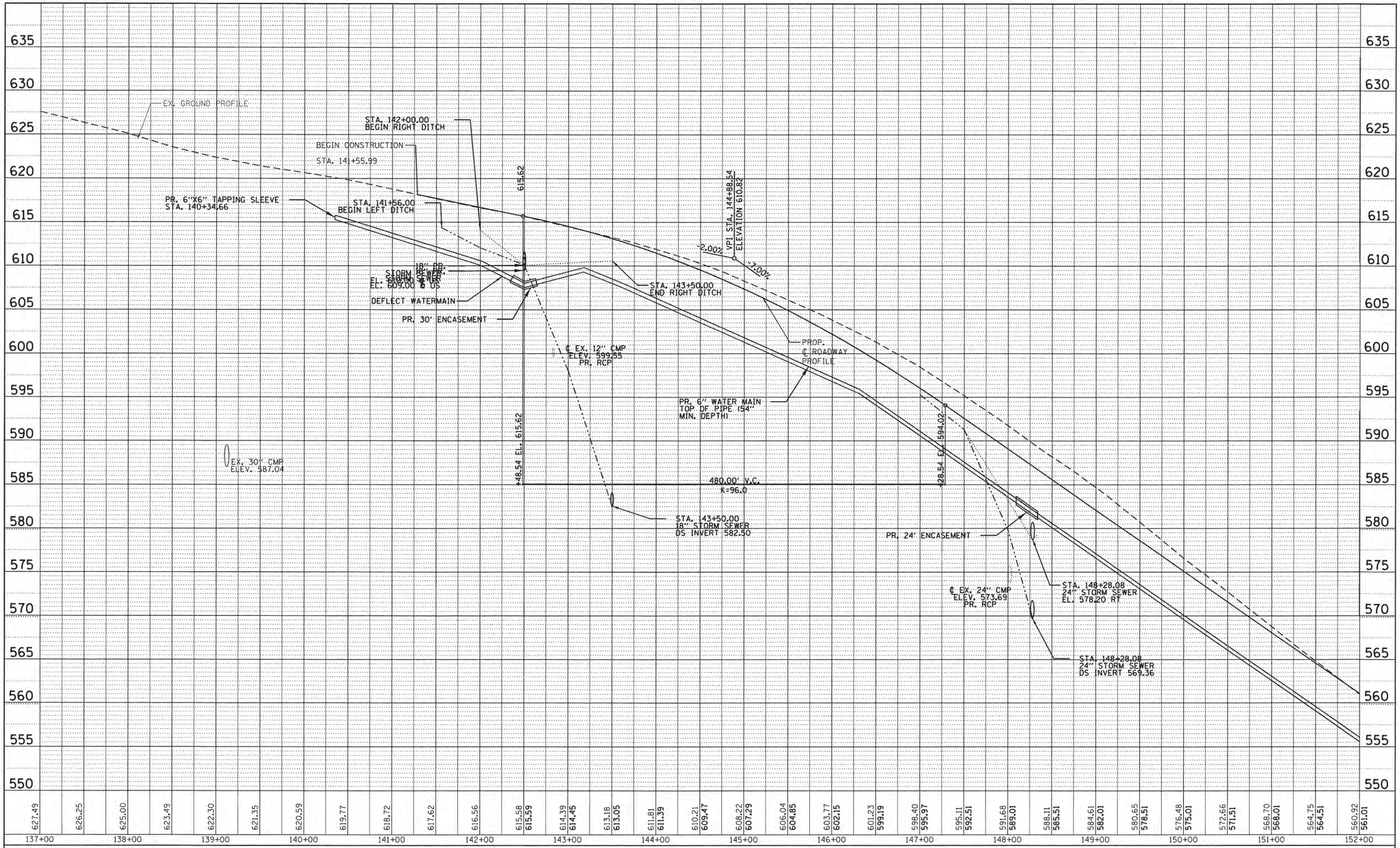
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CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				



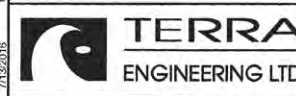


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	ALIGNED	
	GRADES CHECKED	
	RT. OF WAY CHECKED	
	NOTE BOOK	
	NO.	
	DATE	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	S.M. NOTED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	
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**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER ROAD EXISTING & PROPOSED PROFILE**

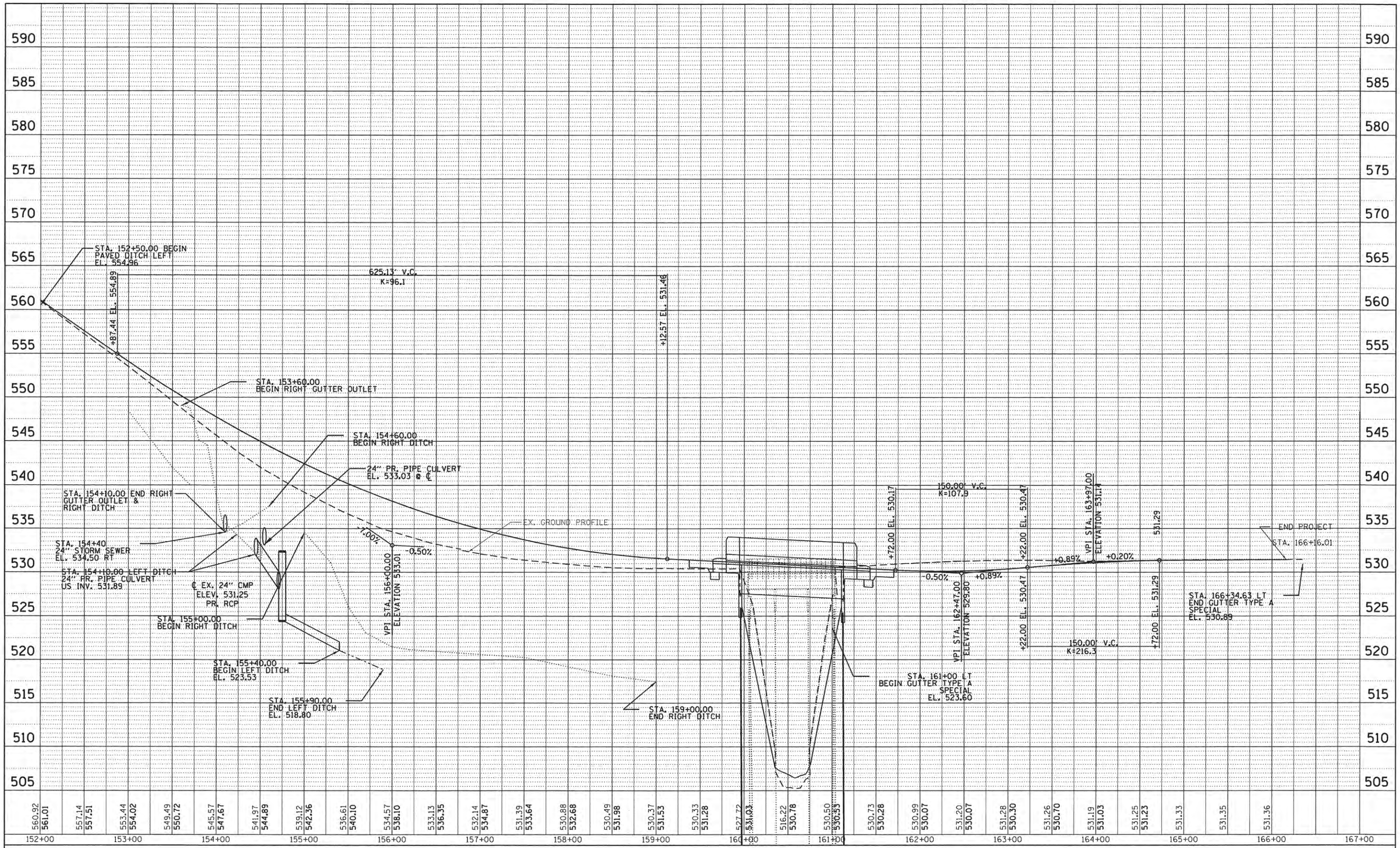
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389	13-00049-01-BR	PEORIA	151	37
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 3 SHEETS STA. 141+55.99 TO STA. 152+00

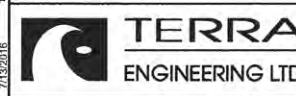


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	NO.	
	DATE	

PROFILE	SURVEYED	DATE
	GRADES	
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	BY	
	NO. NOTED	
	BY	
	STRUCTURE	
	NOTATIONS	
	CHD	



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STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

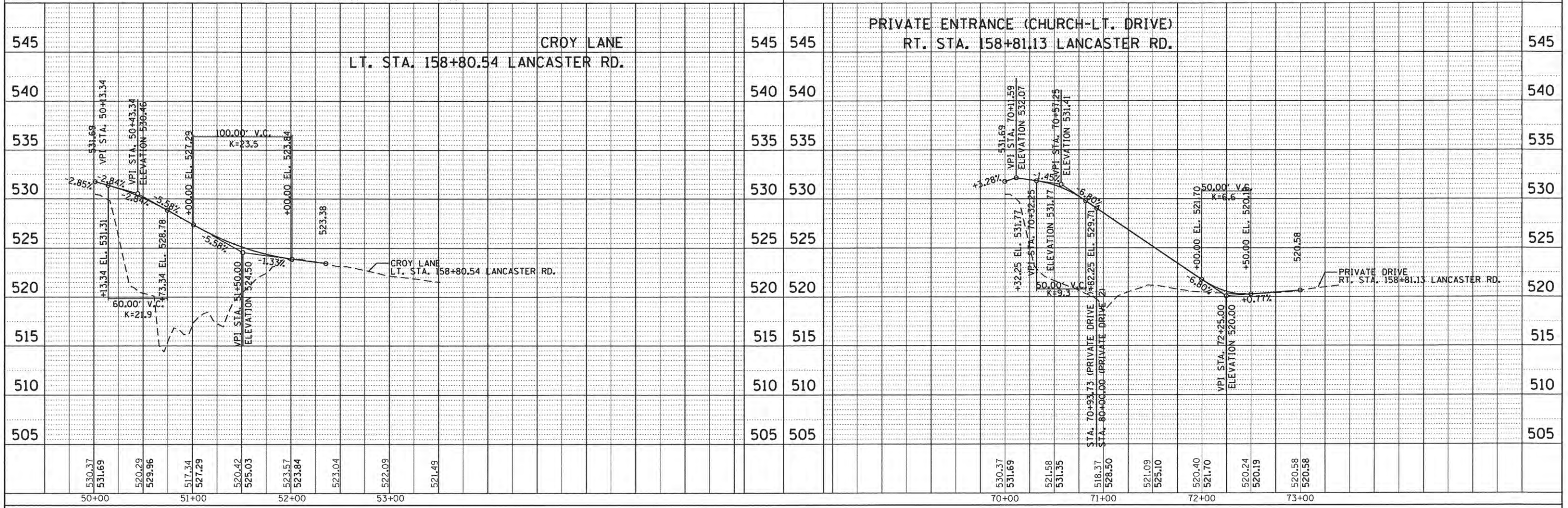
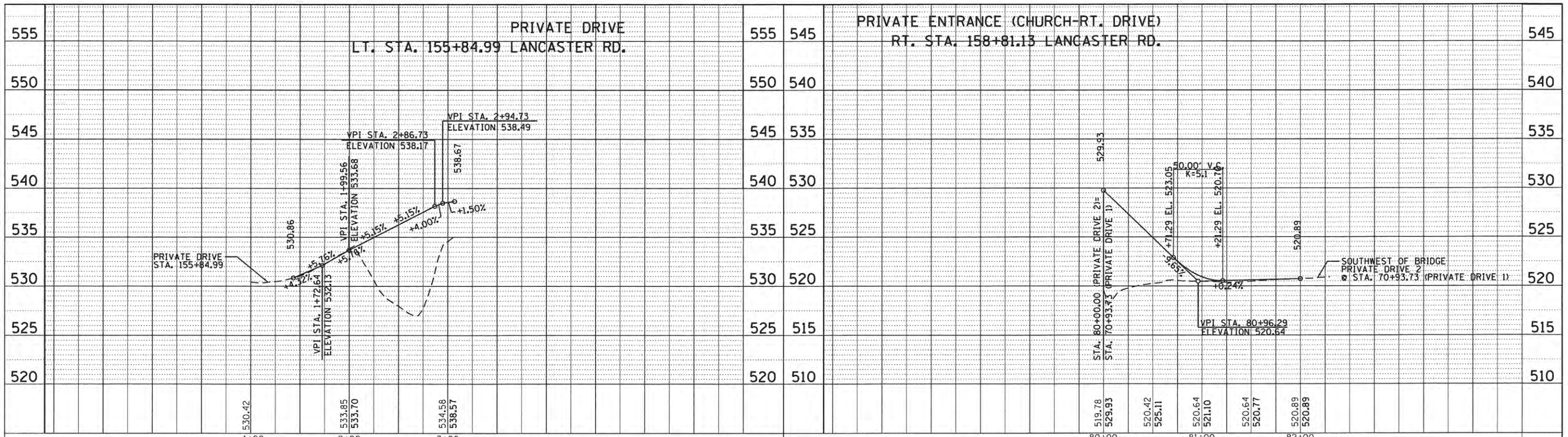
LANCASTER ROAD OVER W LAMARSH CREEK  
 LANCASTER ROAD EXISTING & PROPOSED PROFILE  
 SCALE: SHEET 2 OF 3 SHEETS STA. 152+00 TO STA. 166+16.01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	38
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	ALIGNED		
	RT. OF WAY		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	STRUCTURE		
	NOTATIONS		



555 545 PRIVATE DRIVE LT. STA. 155+84.99 LANCASTER RD. PRIVATE ENTRANCE (CHURCH-RT. DRIVE) RT. STA. 158+81.13 LANCASTER RD. 545

550 540 545 535 540 530 535 525 530 520 525 515 520 510

545 545 CROY LANE LT. STA. 158+80.54 LANCASTER RD. PRIVATE ENTRANCE (CHURCH-LT. DRIVE) RT. STA. 158+81.13 LANCASTER RD. 545

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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
PRIVATE ENTRANCES EXISTING & PROPOSED PROFILES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	39
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				

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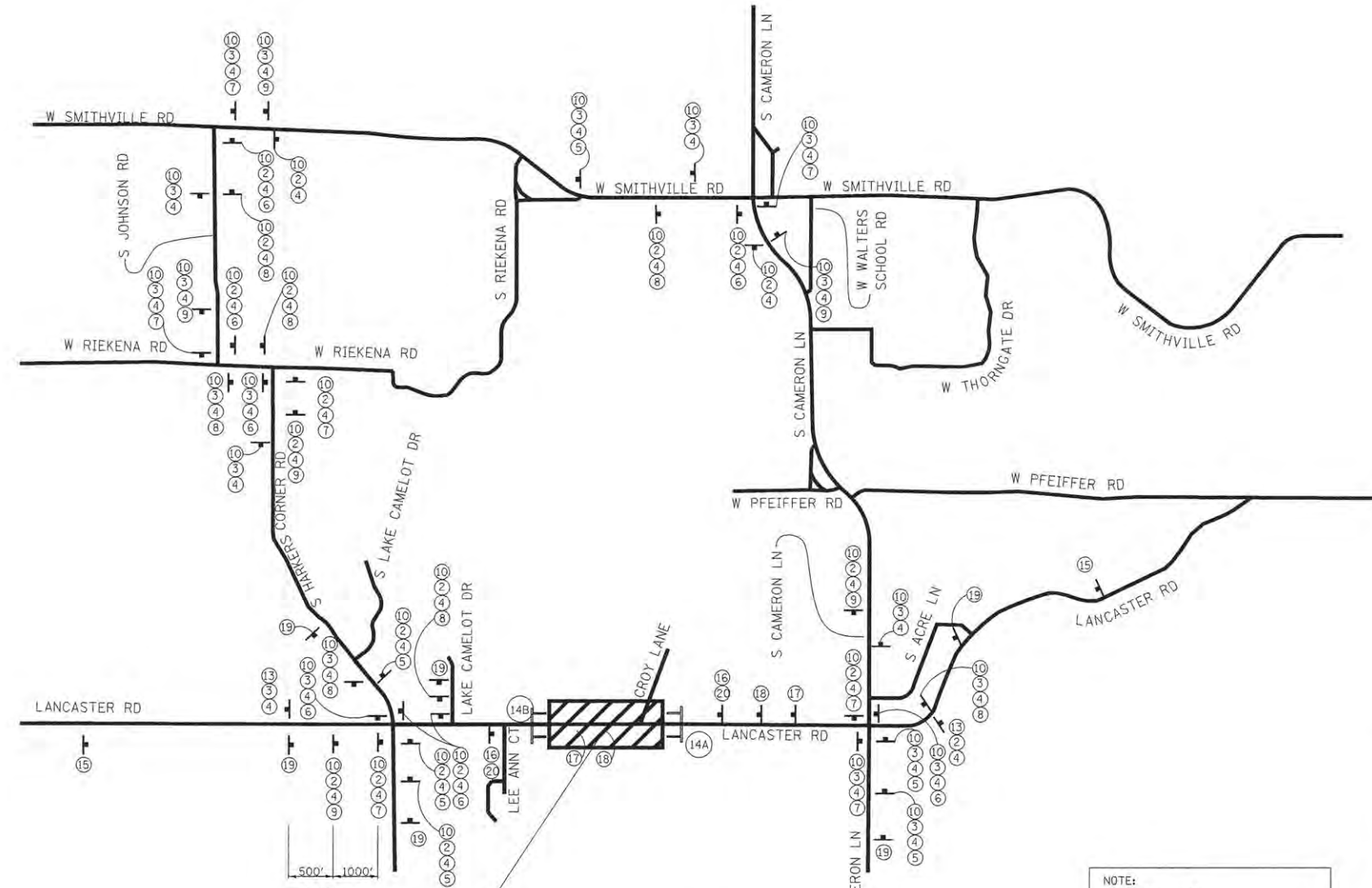


DRAWING NOT TO SCALE

DETOUR IS IN OPERATION AS OF 5/18/2016

LEGEND

- ① BARRICADE TYPE III
- ② M3-2 EAST **EAST**
- ③ M3-4 WEST **WEST**
- ④ LANCASTER RD
- ⑤ M6-3 0 deg DIRECTION ARROW
- ⑥ M6-1 90 deg DIRECTION ARROW
- ⑦ M6-1 90 deg DIRECTION ARROW
- ⑧ M5-1 ADVANCE 90 deg TURN ARROW
- ⑨ M5-1 ADVANCE 90 deg TURN ARROW
- ⑩ M4-8 DETOUR **DETOUR**
- ⑪ M4-10L DETOUR ARROW, LEFT **DETOUR**
- ⑫ M4-10R DETOUR ARROW, RIGHT **DETOUR**
- ⑬ M4-8a END DETOUR **END DETOUR**
- ⑭A R11-2 ROAD CLOSED **ROAD CLOSED**
- ⑭B R11-4 ROAD CLOSE TO THRU TRAFFIC **ROAD CLOSED TO THRU TRAFFIC**
- ⑮ R11-3a ROAD CLOSED X FEET AHEAD, LOCAL TRAFFIC ONLY **ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY**
- ⑯ W20-3-A ROAD CLOSED AHEAD **ROAD CLOSED AHEAD**
- ⑰ W20-3-C ROAD CLOSED AHEAD **ROAD CLOSED 1000 FT**
- ⑱ W20-3-B ROAD CLOSED AHEAD **ROAD CLOSED 500 FT**
- ⑲ W20-2 DETOUR AHEAD **DETOUR 1500 FT**
- ⑳ LANCASTER RD CLOSED AT BRIDGE **LANCASTER RD CLOSED AT BRIDGE**

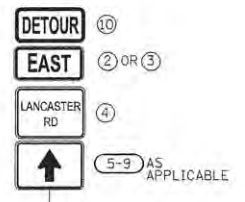


500' 1000'  
TYPICAL (MEASURED FROM THE INTERSECTION)

SEE MAINTENANCE OF TRAFFIC OVERVIEW AND SIGNING SHEETS FOR FURTHER DETAILS.

- NOTES:
- DETOUR PLAN BASED ON FIGURE 6H-8 OF THE MUTCD, ROAD CLOSURE WITH AN OFF-SITE DETOUR (TA-8).
  - DETOUR SIGNAGE IS ALREADY IN PLACE. BEFORE COMMENCING CONSTRUCTION, CONTRACTOR SHALL INVENTORY SIGNAGE AND NOTIFY COUNTY OF ANY MISSING SIGNAGE.
  - CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND SIGN REPLACEMENT THROUGHOUT CONSTRUCTION. SEE THE DETOUR SIGNAGE SPECIAL PROVISION.
  - AFTER THE COMPLETION OF CONSTRUCTION AND DEACTIVATION OF THE DETOUR THE CONTRACTOR SHALL NOTIFY THE COUNTY TO HAVE THE DETOUR REMOVED.

NOTE:  
⑩ ⑩  
② ③  
④ ④  
ASSEMBLY SHALL BE PLACED 200' AFTER TURNS AS CONFIDENCE SIGNS



TYPICAL SIGN PANEL ASSEMBLY

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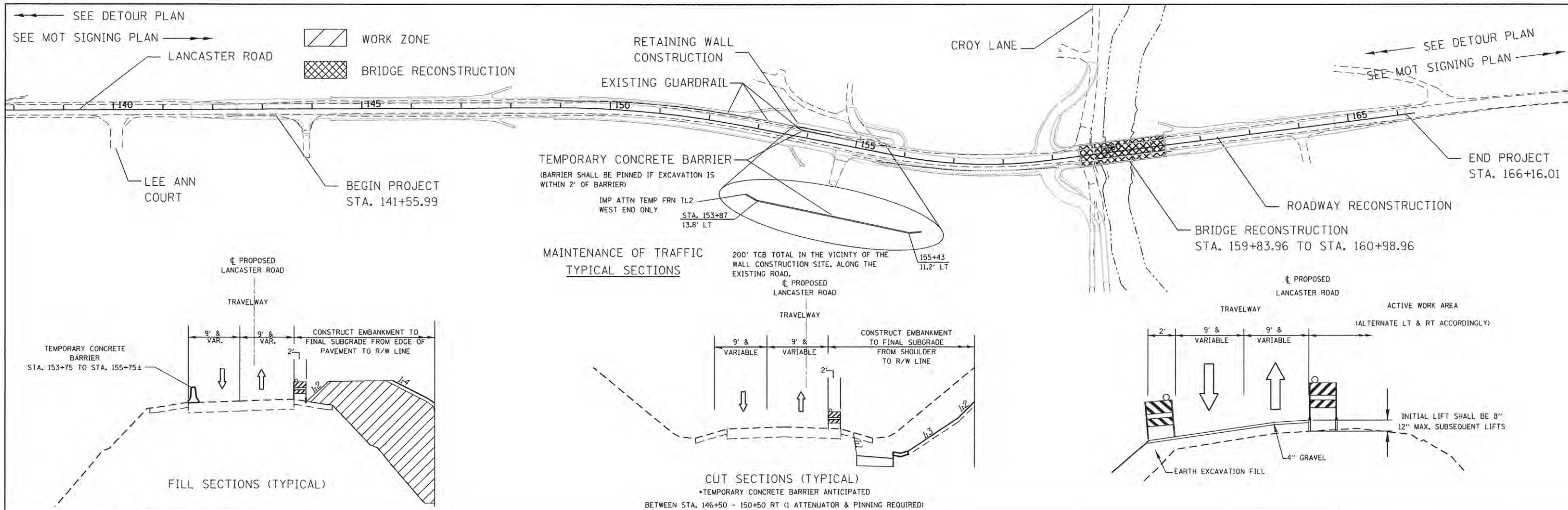


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	DATE - 07/13/16	REVISED -

STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK DETOUR PLAN		
SCALE: NTS	SHEET 1 OF 3 SHEETS	STA. TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 40
			CONTRACT NO. 89676	
[ILLINOIS] FED. AID PROJECT				



**MAINTENANCE OF TRAFFIC PLAN**

**NOTES:**

- ① THIS PROJECT SHALL BE CLOSED TO THRU TRAFFIC. WHILE LANCASTER ROAD IS CONSTRUCTED, THE EXISTING LANCASTER DETOUR WILL BE EMPLOYED. SEE THE SHEET ENTITLED "DETOUR PLAN" FOR FURTHER DETAILS. BEFORE CONSTRUCTION COMMENCES ON LANCASTER ROAD, THE WORK ZONE SIGNAGE SIGNAGE MUST BE IN PLACE.
- ② COORDINATION WITH THE COUNTY, TOWNSHIPS, EMERGENCY AGENCIES, GARBAGE SERVICES, MAIL, SCHOOL DISTRICTS AND MEDIA WILL BE REQUIRED DURING CONSTRUCTION. THIS WILL BE COORDINATED THRU THE COUNTY.
- ③ ACCESS TO DRIVEWAYS AND FIELD ENTRANCES SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS.
- ④ SIGNING WITHIN THE WORK ZONE SHALL BE ACCORDING TO THE SHEET ENTITLED "MAINTENANCE OF TRAFFIC SIGNING PLAN." DURING CONSTRUCTION THE LOCATION OF THE SIGNS SHALL BE MOVED TO MAINTAIN OPTIMUM VISIBILITY FOR THE TRAVELING PUBLIC.
- ⑤ FLAGGERS ARE REQUIRED AT ALL TIMES WHEN CONSTRUCTION IMPACTS LOCAL TRAFFIC WITHIN THE WORK ZONE.
- ⑥ A MAXIMUM DROP OFF OF 12" WILL BE ALLOWED FROM THE EDGE OF THE DRIVING SURFACE TO THE LOWER SURFACE OF THE ACTIVE WORK AREA.
- ⑦ THRU OR LOCAL TRAFFIC WILL NOT BE ALLOWED ON THE NEW BRIDGE, UNTIL THE ROADWAY IS OPEN, WITHOUT PRIOR APPROVAL OF THE ENGINEER.

**OPERATIONS AFFECTED BY MAINTENANCE OF TRAFFIC:**

- ① INITIAL CONSTRUCTION ON THE SOUTH SIDE OF THE ROADWAY MUST COMMENCE TO ASSIST IN UTILITY RELOCATION AS SUGGESTED ABOVE. FORESLOPE AND BACKSLOPE CONSTRUCTION SHOULD BE SCHEDULED ACCORDINGLY, ONCE SUBSTANTIALLY COMPLETE, ALTERNATE THE LOCATION OF TRAFFIC TO MAINTAIN SAFE CLEARANCE AND TO ALLOW CONSTRUCTION IN THE ACTIVE WORK AREA.
- ② MAINTAIN ACCESS WHILE PAVEMENT IS BEING REMOVED EITHER BY MILLING OR FULL DEPTH REMOVAL, WHEN NECESSARY.
- ③ EARTH EXCAVATION OPERATIONS NEXT TO THE MAINTAINED TRAVELWAY WILL BE CONSIDERED A MOVING OPERATION. FLAGGERS ARE REQUIRED WHEN OPERATIONS ENCROACH ON THE TRAVELWAY. 4" OF GRAVEL SHALL BE PLACED OVER COMPACTED EARTH FILL FOR LOCAL TRAFFIC ACCESS. THIS MATERIAL CAN BE LEFT AS FUTURE FILL. ALTERNATE LAYERS OF COMPACTED EARTH FILL AND GRAVEL SHALL BE UTILIZED UNTIL SUBGRADE IS REACHED. SCARIFY AND/OR DISK THE TEMPORARY GRAVEL DRIVE LANES BEFORE PLACING THE NEXT LIFT OF FILL MATERIAL OR GRAVEL. FORESLOPE AND BACKSLOPE CONSTRUCTION SHOULD BE SCHEDULED ACCORDINGLY. TEMPORARY SEEDING SHOULD ALSO BE SUPPLIED AS WORK PROGRESSES.
- ④ ROADWAY AND BRIDGE CONSTRUCTION ACTIVITIES SHALL BE COORDINATED TO MAXIMIZE ACCESS AND MINIMIZE DISRUPTION. ACCESS TO THE BRIDGE SITE IS PREFERRED FROM THE EAST SITE OF THE PROJECT.
- ⑤ AT THREE LOCATIONS ALONG THE MAINLINE OF LANCASTER ROAD, DRAINAGE STRUCTURES WILL TRAVERSE THE ROADWAY. INSTALLATION OF THESE STRUCTURE WILL BE COMPLETED WHILE MAINTAINING TRAFFIC. ACCESS CONFLICTS ARE ANTICIPATED AT CROY LANE AND SELECT DRIVEWAYS. INSTALLATIONS REQUIRING MULTIPLE DAYS TO COMPLETE SHALL BE SCHEDULED ACCORDINGLY AND TO ENSURE THE SITE IS SAFE AT THE END OF EACH WORKING DAY. THE USE OF PLATES OR OTHER MEANS NECESSARY FOR THESE CROSSINGS ARE ALLOWABLE WITH THE APPROVAL OF THE ENGINEER.

**OPERATIONS AFFECTED BY MAINTENANCE OF TRAFFIC (CONTINUED):**

- ⑥ CONSTRUCTION OF THE DRIVEWAY AND RETAINING WALL AT STA. 155+84.99 SHALL BE COMPLETED UNDER LOCAL TRAFFIC. CONSTRUCTION SHOULD BE COMPLETED WITH MINIMAL CONFLICT TO THE TRAVELING PUBLIC. 200' TCB SHALL BE PLACED ON THE EXISTING PAVEMENT AS SHOWN IN THE FILL SECTION TYPICAL ADJACENT TO THE WALL CONSTRUCTION SITE. THE ENDS SHALL BE TAPERED AWAY FROM THE PAVEMENT. CONSTRUCTION OF THE TEMPORARY SHEETPILE WALL AND RETAINING WALL CAN NOT BEGIN UNTIL TEMPORARY OR PERMANENT UTILITY SERVICES HAVE BEEN PROVIDED TO ELIMINATE CONFLICTS AT THE WALL SITES. SEE WALL DETAILS FOR FURTHER DETAILS.
- ⑦ HMA PAVING & BASE WORK: MAINTAIN ACCESS WHILE PAVEMENT IS BEING CONSTRUCTED. TRAFFIC IS NOT ALLOWED ON PAVEMENT WHILE THE MATERIAL IS BEING LAID OR UNTIL PROPER CURING (COMPACTION) HAS OCCURRED.
- ⑧ POSTED DETOUR: AFTER MAJOR CONSTRUCTION ACTIVITIES ARE COMPLETED, THE CONTRACTOR IS TO COORDINATE THE REMOVAL OF THE EXTERNAL DETOUR. THE COUNTY OR ITS AGENT IS RESPONSIBLE FOR REMOVING THE DETOUR. THERE MAY BE A NEED TO COMPLETE OTHER ACTIVITIES SUCH AS CLEAN UP, PERMANENT SEEDING OR STRIPING. USE THE APPROPRIATE OFF ROAD OR MOVING OPERATIONS HIGHWAY STANDARDS AS APPLICABLE.
- ⑨ ANY DROPOFF GREATER THAN 12" WITHIN 8 FOOT OF EDGE OF PAVEMENT WILL REQUIRE A BARRIER WALL WHERE LIVE TRAFFIC EXISTS.

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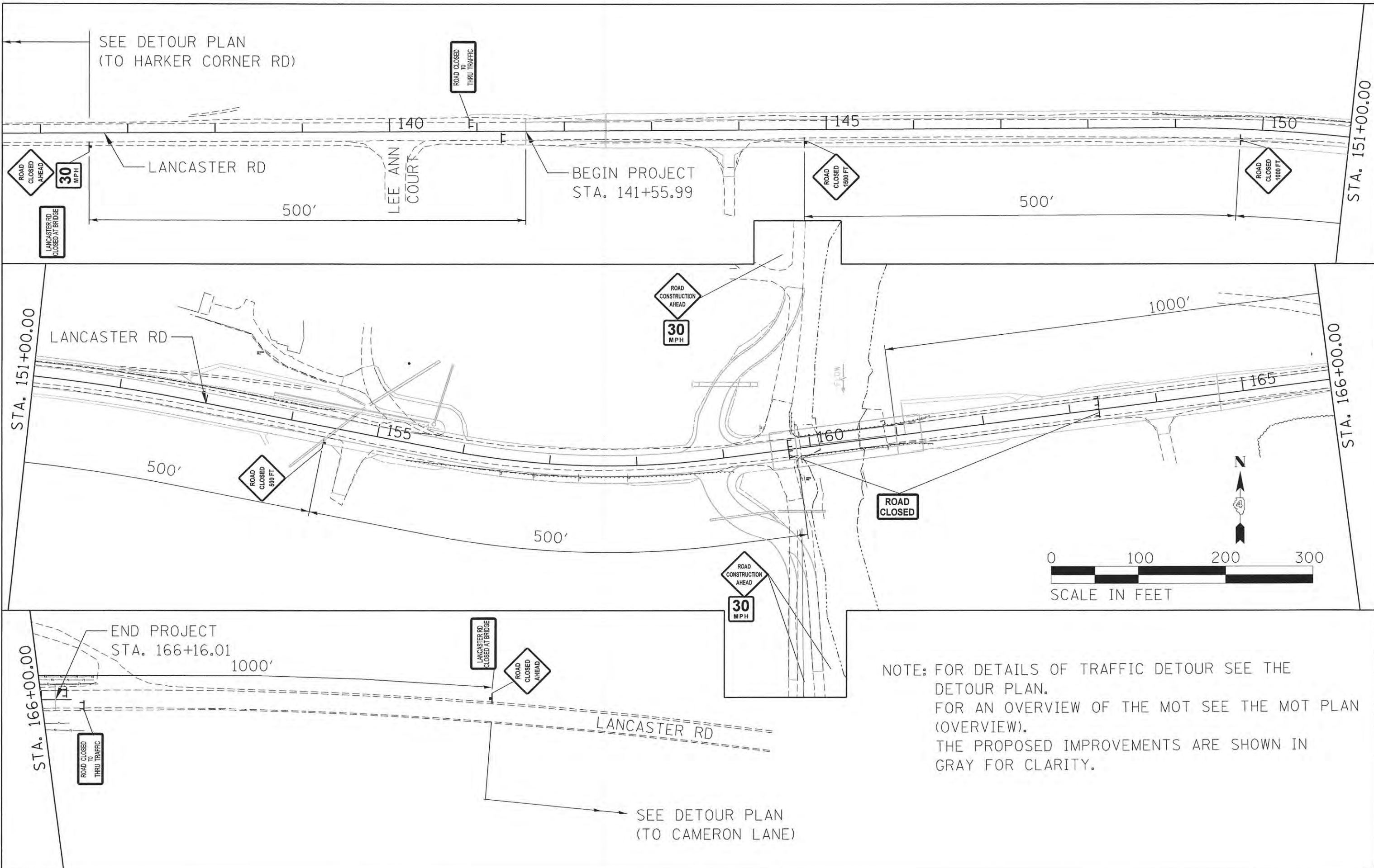
**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
MAINTENANCE OF TRAFFIC PLAN (OVERVIEW)**

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	





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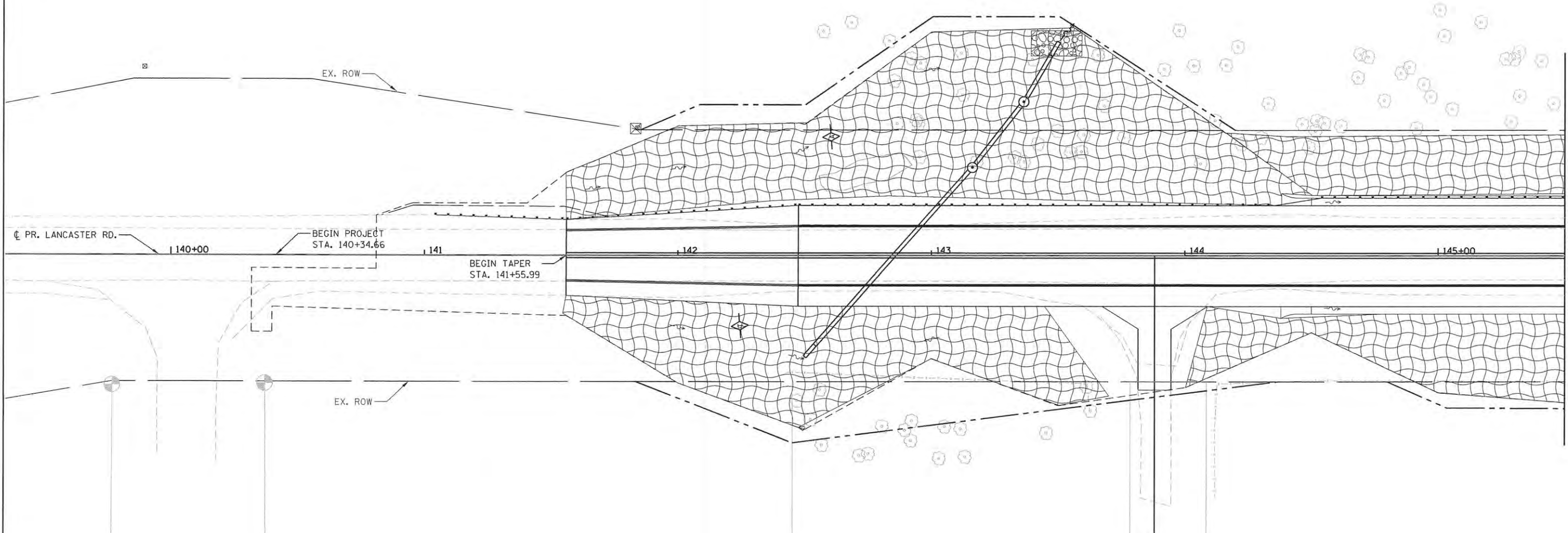
**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**MAINTENANCE OF TRAFFIC SIGNING PLAN**  
 SCALE: 1"=100' SHEET 3 OF 3 SHEETS STA. TO STA.






F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	42
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				



SEE RIGHT-OF-WAY PLANS FOR DIMENSIONS/LOCATIONS OF PROPOSED ROW AND EASEMENTS



**LEGEND**

-  PERIMETER EROSION BARRIER
-  MULCH METHOD 3 TEMPORARY EROSION CONTROL SEEDING
-  AGGREGATE DITCH CHECK
-  PROPOSED DITCH FLOW
-  STONE RIPRAP, CLASS A4

SEE SHEET 80 OF 151 FOR RIPRAP DETAILS

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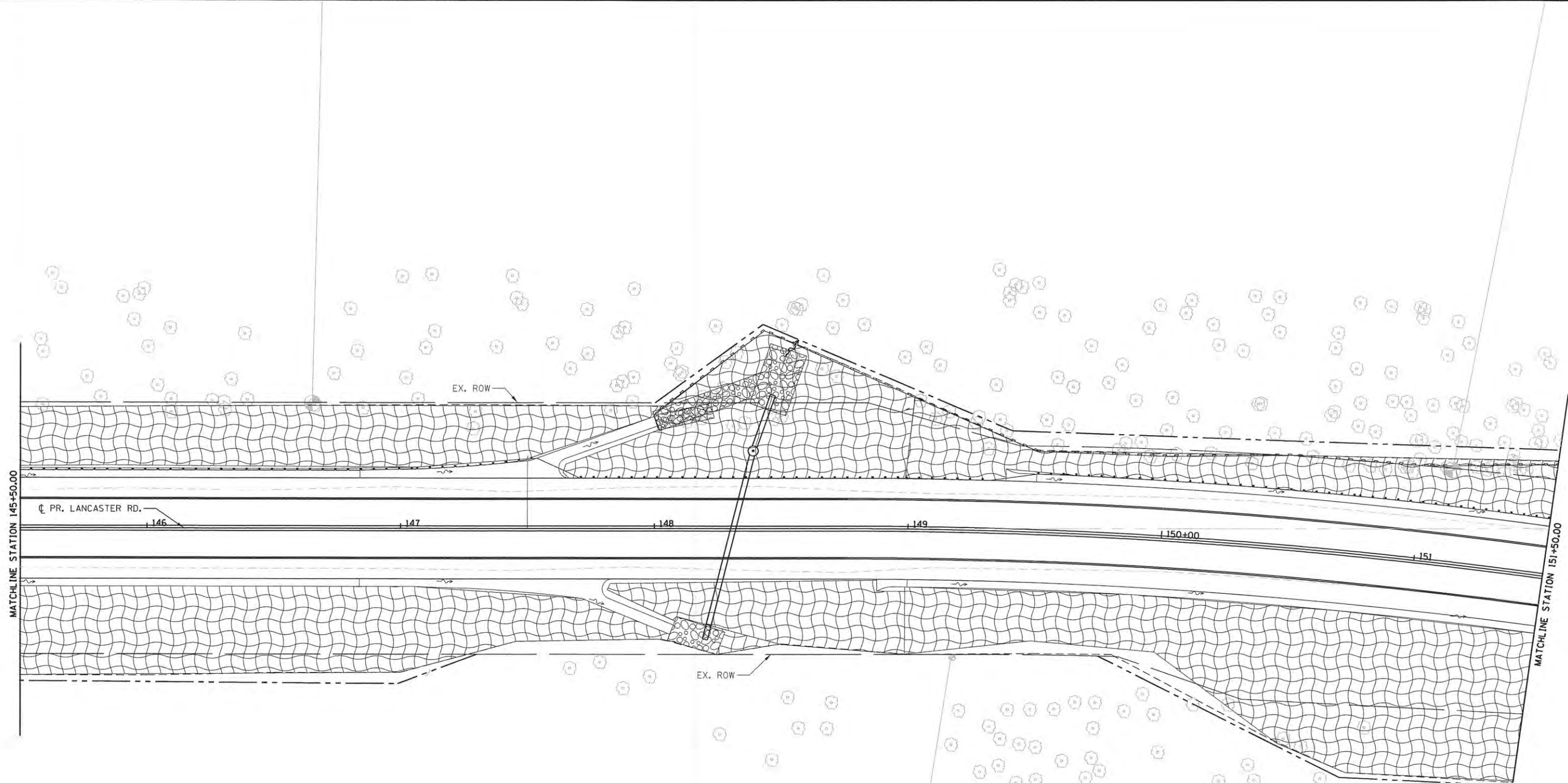
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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER RD EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1"=20' SHEET 1 OF 6 SHEETS STA. 141+55.99 TO STA. 145+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	43
				CONTRACT NO. 89676
ILLINOIS FED. AID PROJECT				



MATCHLINE STATION 145+50.00

MATCHLINE STATION 151+50.00

PR. LANCASTER RD.

EX. ROW

EX. ROW

146

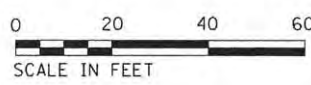
147

148

149

150+00

151



**LEGEND**

PERIMETER EROSION BARRIER

MULCH METHOD 3  
TEMPORARY EROSION CONTROL SEEDING

AGGREGATE DITCH CHECK

PROPOSED DITCH FLOW

STONE RIPRAP, CLASS A4



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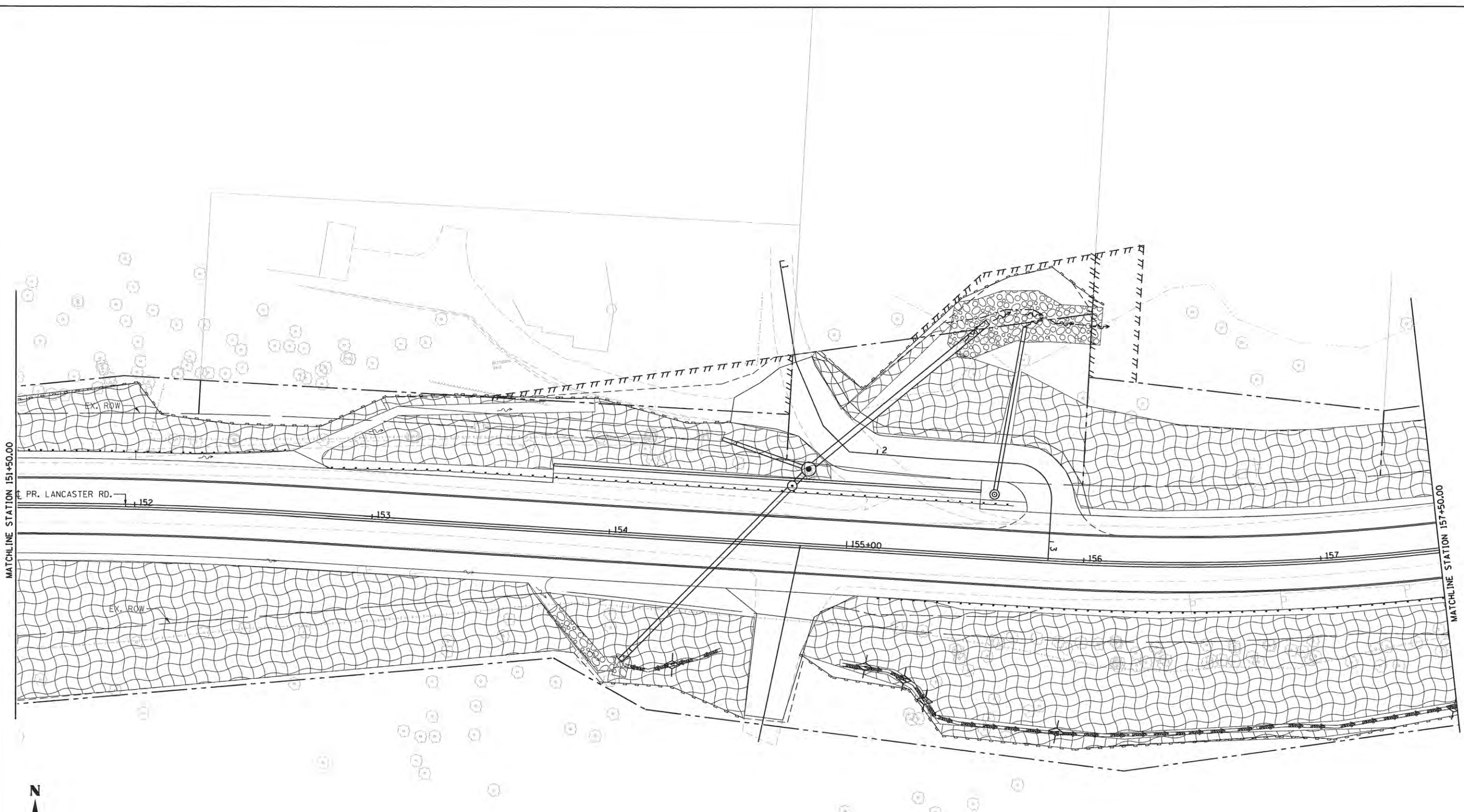
STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER RD EROSION AND SEDIMENT CONTROL PLAN


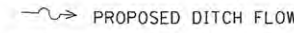



SCALE: 1"=20' SHEET 2 OF 6 SHEETS STA. 145+50 TO STA. 151+50

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 44
CONTRACT NO. 89676			[ILLINOIS] FED. AID PROJECT	

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**LEGEND**

	PERIMETER EROSION BARRIER		PROPOSED DITCH FLOW
	MULCH METHOD 3 TEMPORARY EROSION CONTROL SEEDING		STONE RIPRAP, CLASS A4
	AGGREGATE DITCH CHECK		

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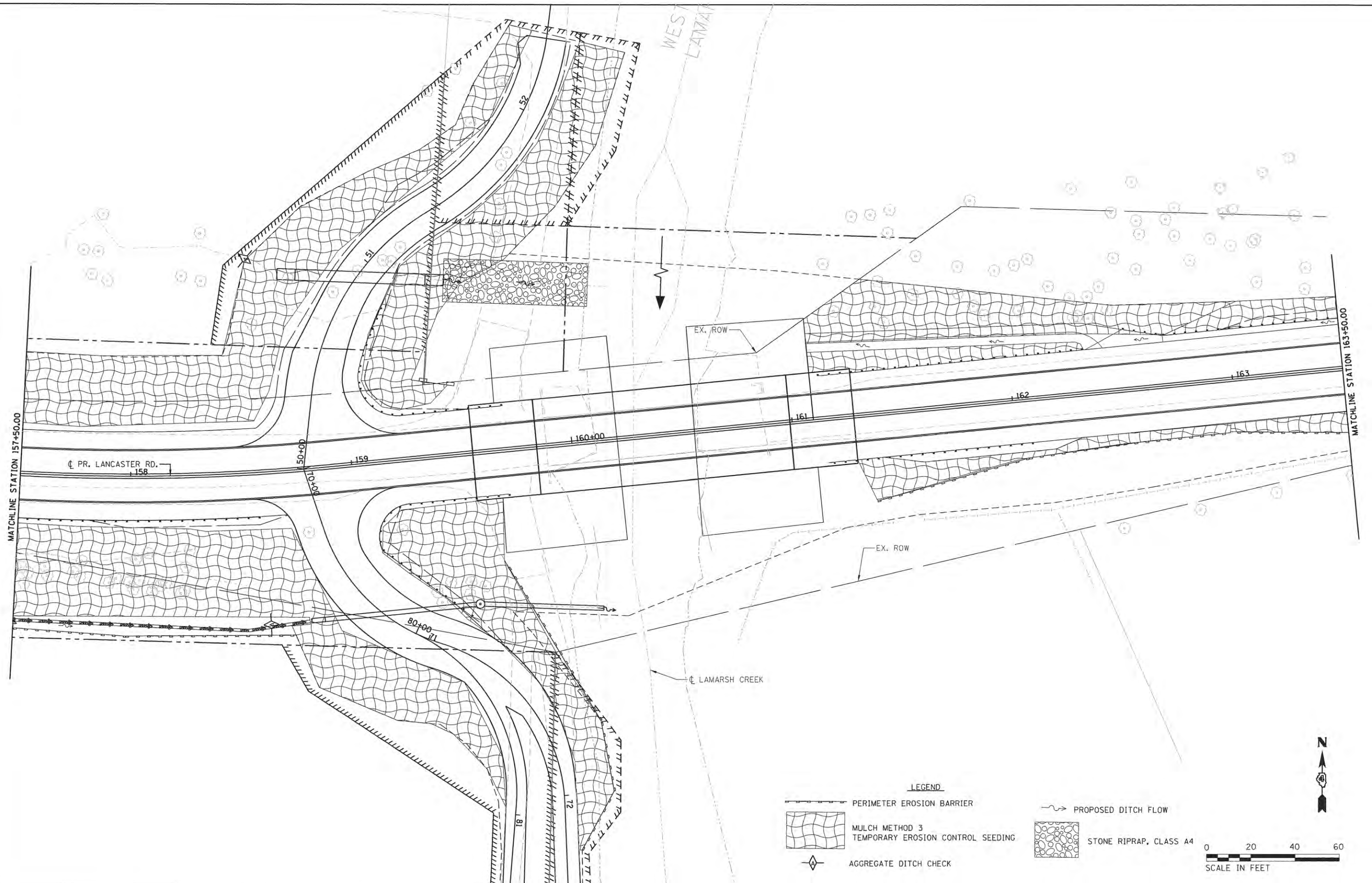
**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER RD EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1"=20'    SHEET 3 OF 6 SHEETS    STA. 151+50 TO STA. 157+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				










MATCHLINE STATION 157+50.00

MATCHLINE STATION 163+50.00

PR. LANCASTER RD. 158

LAMARSH CREEK

**LEGEND**

-  PERIMETER EROSION BARRIER
-  MULCH METHOD 3
-  AGGREGATE DITCH CHECK
-  PROPOSED DITCH FLOW
-  STONE RIPRAP, CLASS A4



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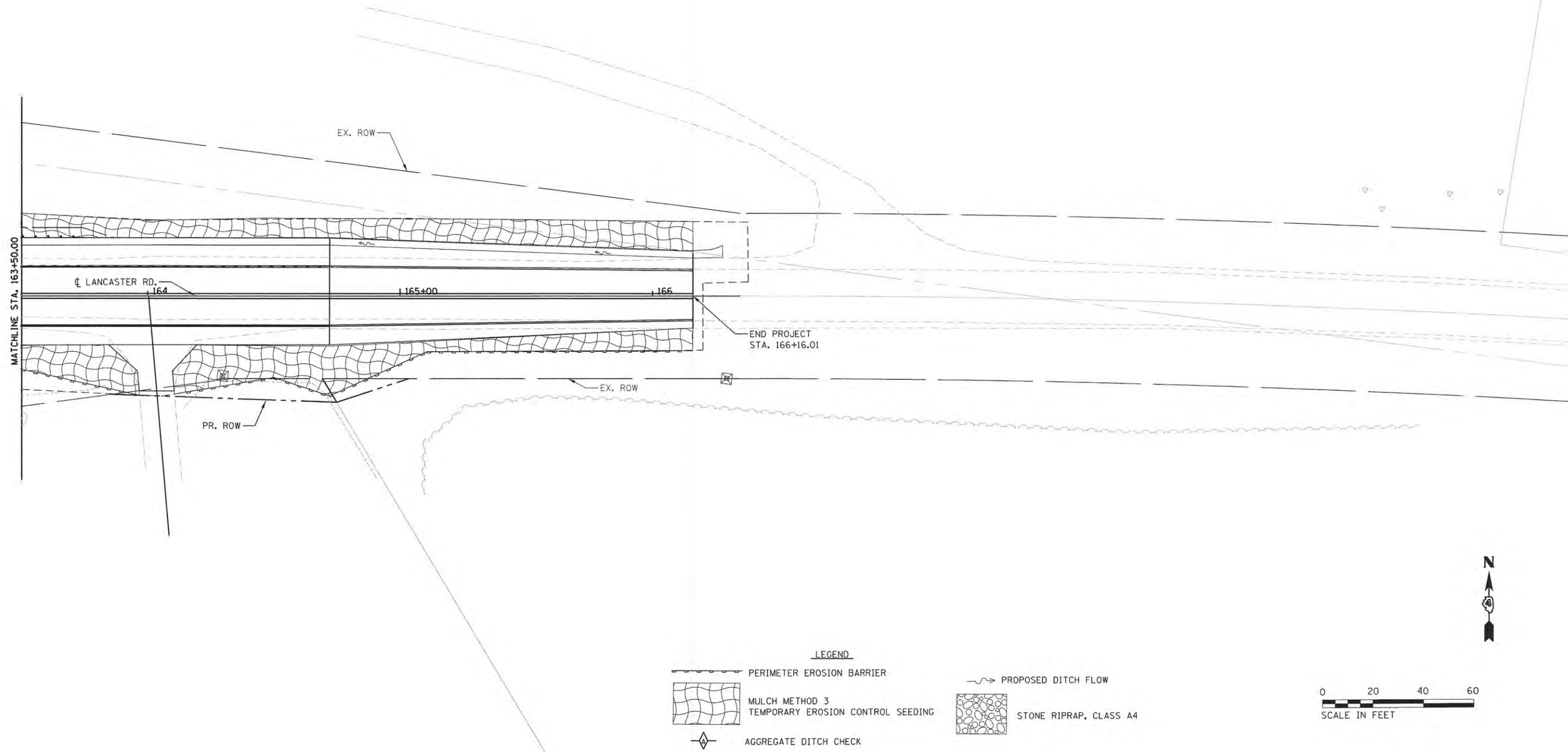
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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT





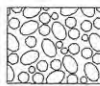
**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER RD EROSION AND SEDIMENT CONTROL PLAN**  
SCALE: 1"=20' SHEET 4 OF 6 SHEETS STA. 157+50 TO STA. 163+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	46
			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				

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**LEGEND**

-  PERIMETER EROSION BARRIER
-  MULCH METHOD 3  
TEMPORARY EROSION CONTROL SEEDING
-  AGGREGATE DITCH CHECK
-  PROPOSED DITCH FLOW
-  STONE RIPRAP, CLASS A4

**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER RD EROSION AND SEDIMENT CONTROL PLAN**

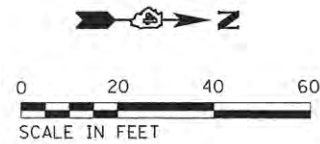
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	47
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				

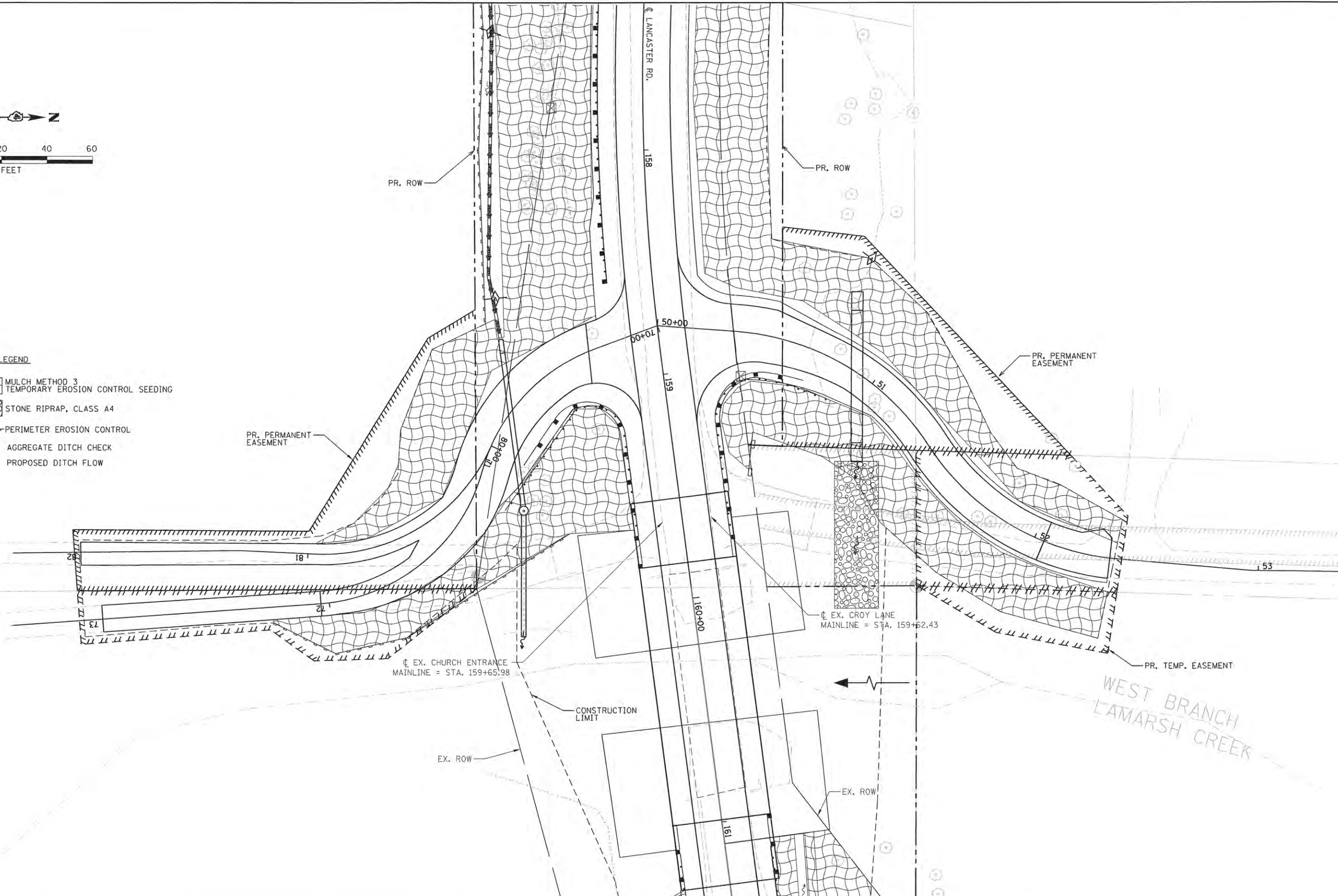


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	DATE - 07/13/16	REVISED -



**LEGEND**

- MULCH METHOD 3  
TEMPORARY EROSION CONTROL SEEDING
- STONE RIPRAP, CLASS A4
- PERIMETER EROSION CONTROL
- AGGREGATE DITCH CHECK
- PROPOSED DITCH FLOW



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DESIGNED - BKR  
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 CHECKED - KSD  
 DATE - 07/13/16

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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

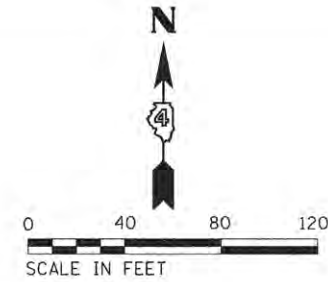
**LANCASTER ROAD OVER W LAMARSH CREEK**  
**CROY LANE PE EROSION AND SEDIMENT CONTROL PLAN**  
 SCALE: 1"=20'    SHEET 6 OF 6 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	48
				CONTRACT NO. 89676
ILLINOIS FED. AID PROJECT				



LAYOUT TABLE

STATION	OFFSET (FT)	LT/RT	Y (NORTHERLY)	X (EASTERLY)
141+85.22	50.00	LT	1441525.71	2413970.71
142+08.64	60.00	LT	1441535.84	2413994.08
142+50.32	60.00	LT	1441536.06	2414035.76
143+00.50	95.00	LT	1441571.33	2414085.76
143+50.50	95.00	LT	1441571.59	2414135.76
144+19.84	50.00	LT	1441526.96	2414205.33
148+00.26	50.00	LT	1441528.99	2414585.75
148+42.76	81.00	LT	1441560.19	2414628.08
149+40.00	40.00	LT	1441518.65	2414726.81
151+94.29	55.46	LT	1441510.58	2414987.32
152+25.65	54.56	LT	1441504.51	2415018.98
141+83.23	50.00	RT	1441425.70	2413969.25
142+45.16	74.23	RT	1441401.77	2414031.31
144+36.93	50.00	RT	1441427.05	2414222.95
144+80.00	50.00	RT	1441427.28	2414266.02
145+03.42	60.40	RT	1441416.98	2414289.50
146+98.86	61.64	RT	1441416.77	2414484.93
147+30.00	50.00	RT	1441428.61	2414516.02
149+77.26	48.13	RT	1441429.25	2414760.80
150+79.54	88.82	RT	1441381.68	2414856.44



T8N R7E 4th P.M. (LIMESTONE TWP.)

SEC. 31

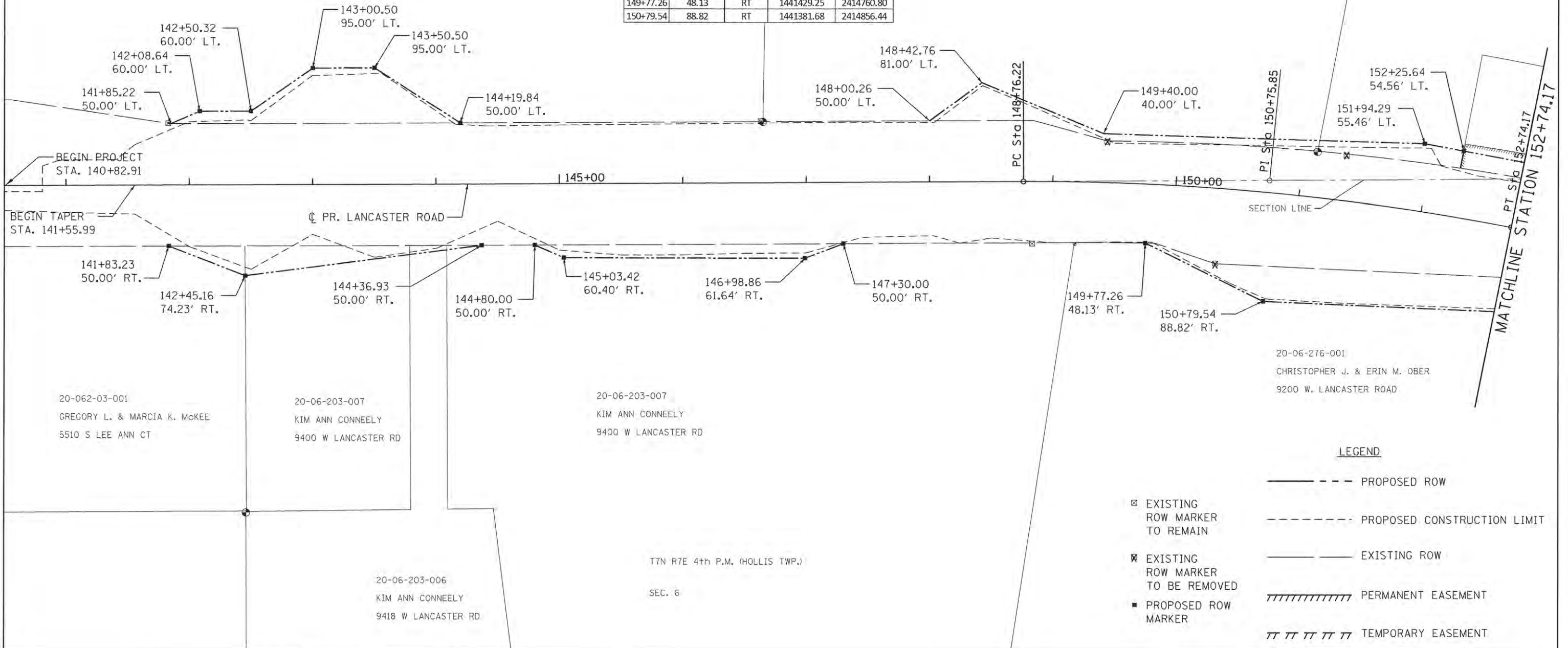
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DOUGLAS W. & DEON D. (STALEY) HIRE  
9217 W LANCASTER RD

17-31-476-004  
JOHN R. & MARCELLA M. JAMES  
9101 W LANCASTER RD

17-31-451-002  
CLAYTON E. BONTZ  
W LANCASTER RD

152+25.64  
54.56' LT.  
151+94.29  
55.46' LT.

MATCHLINE  
STATION 152+74.17



20-06-276-001  
CHRISTOPHER J. & ERIN M. OBER  
9200 W. LANCASTER ROAD

20-062-03-001  
GREGORY L. & MARCIA K. McKEE  
5510 S LEE ANN CT

20-06-203-007  
KIM ANN CONNEELY  
9400 W LANCASTER RD

20-06-203-007  
KIM ANN CONNEELY  
9400 W LANCASTER RD

20-06-203-006  
KIM ANN CONNEELY  
9418 W LANCASTER RD

T7N R7E 4th P.M. (HOLLIS TWP.)

SEC. 6

LEGEND

- — — — — PROPOSED ROW
- - - - - PROPOSED CONSTRUCTION LIMIT
- — — — — EXISTING ROW
- //// //// //// PERMANENT EASEMENT
- |||| |||| |||| TEMPORARY EASEMENT
- ⊠ EXISTING ROW MARKER TO REMAIN
- ⊗ EXISTING ROW MARKER TO BE REMOVED
- PROPOSED ROW MARKER

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		DATE - 07/13/16	REVISED -

STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK RIGHT OF WAY PLAN			
SCALE: 1"=40'	SHEET 1 OF 1 SHEETS	STA. 141+56 TO STA. 152+74.17	

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 49
CONTRACT NO. 89676				ILLINOIS FED. AID PROJECT

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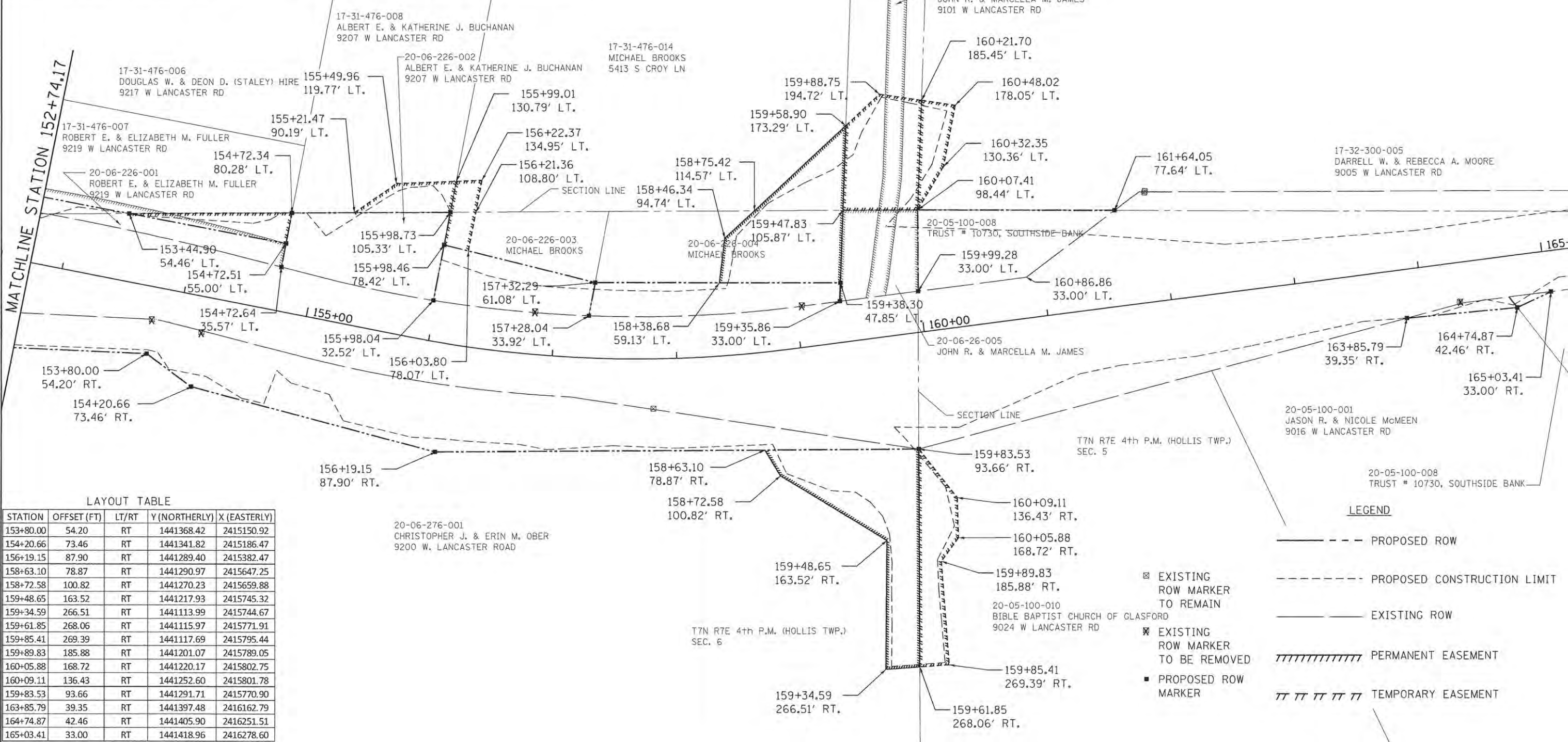
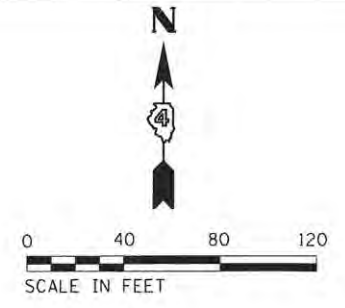
LAYOUT TABLE				
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153+44.29	54.46	LT	1441481.92	2415136.80
154+72.34	80.28	LT	1441482.61	2415267.42
154+72.51	55.00	LT	1441457.77	2415262.72
154+72.64	35.57	LT	144411438.7	2415259.10
155+21.47	90.19	LT	1441482.88	2415317.54
155+49.96	119.77	LT	1441506.43	2415351.19
155+98.04	32.52	LT	1441411.75	2415381.11
155+98.46	78.42	LT	1441456.85	2415389.64
155+98.73	105.33	LT	141483.29	2415394.65
155+99.01	130.79	LT	1441508.31	2415399.38
156+03.80	78.07	LT	1441451.96	2415409.07
156+22.37	134.95	LT	1441509.11	2415419.89
156+21.36	108.80	LT	1441483.40	2415415.02
156+22.37	134.95	LT	1441509.11	2415419.89
157+28.04	33.92	LT	1441399.37	2415505.87

LAYOUT TABLE				
STATION	OFFSET (FT)	LT/RT	Y (NORTHERLY)	X (EASTERLY)
157+32.29	61.08	LT	1441426.34	2415510.97
158+38.68	59.13	LT	1441426.27	2415610.59
158+46.34	94.74	LT	1441462.32	2415614.81
158+75.42	114.57	LT	1441484.59	2415638.61
159+35.86	33.00	LT	1441411.16	2415707.28
159+38.30	47.85	LT	1441426.20	2415707.78
159+47.83	105.87	LT	1441484.97	2415709.74
159+58.90	173.29	LT	1441553.25	2415712.02
159+88.75	194.72	LT	1441578.36	2415738.86
159+99.28	33.00	LT	1441419.34	2415770.16
160+07.41	98.44	LT	1441485.29	2415769.78
160+21.70	185.45	LT	1441573.42	2415772.72
160+32.35	130.36	LT	1441520.16	2415790.39
160+48.02	178.05	LT	1441569.47	2415799.77
161+64.05	77.64	LT	1441484.88	2415927.79

T8N R7E 4th P.M. (LIMESTONE TWP.)  
SEC. 31

17-31-476-013  
LINDA S. LAPPIN  
5405 S CROY LN

T8N R7E 4th P.M. (LIMESTONE TWP.)  
SEC. 32



LAYOUT TABLE				
STATION	OFFSET (FT)	LT/RT	Y (NORTHERLY)	X (EASTERLY)
153+80.00	54.20	RT	1441368.42	2415150.92
154+20.66	73.46	RT	1441341.82	2415186.47
156+19.15	87.90	RT	1441289.40	2415382.47
158+63.10	78.87	RT	1441290.97	2415647.25
158+72.58	100.82	RT	1441270.23	2415659.88
159+48.65	163.52	RT	1441217.93	2415745.32
159+34.59	266.51	RT	1441113.99	2415744.67
159+61.85	268.06	RT	1441115.97	2415771.91
159+85.41	269.39	RT	1441117.69	2415795.44
159+89.83	185.88	RT	1441201.07	2415789.05
160+05.88	168.72	RT	1441220.17	2415802.75
160+09.11	136.43	RT	1441252.60	2415801.78
159+83.53	93.66	RT	1441291.71	2415770.90
163+85.79	39.35	RT	1441397.48	2416162.79
164+74.87	42.46	RT	1441405.90	2416251.51
165+03.41	33.00	RT	1441418.96	2416278.60

20-06-276-001  
CHRISTOPHER J. & ERIN M. OBER  
9200 W. LANCASTER ROAD

T7N R7E 4th P.M. (HOLLIS TWP.)  
SEC. 5

T7N R7E 4th P.M. (HOLLIS TWP.)  
SEC. 6

- LEGEND**
- PROPOSED ROW
  - PROPOSED CONSTRUCTION LIMIT
  - EXISTING ROW
  - ||||| PERMANENT EASEMENT
  - ||||| TEMPORARY EASEMENT
  - ☒ EXISTING ROW MARKER TO REMAIN
  - ☒ EXISTING ROW MARKER TO BE REMOVED
  - PROPOSED ROW MARKER

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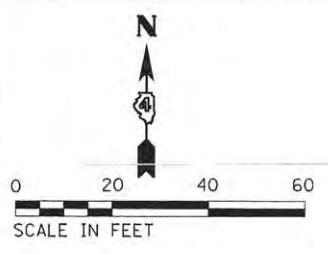
STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
RIGHT OF WAY PLAN

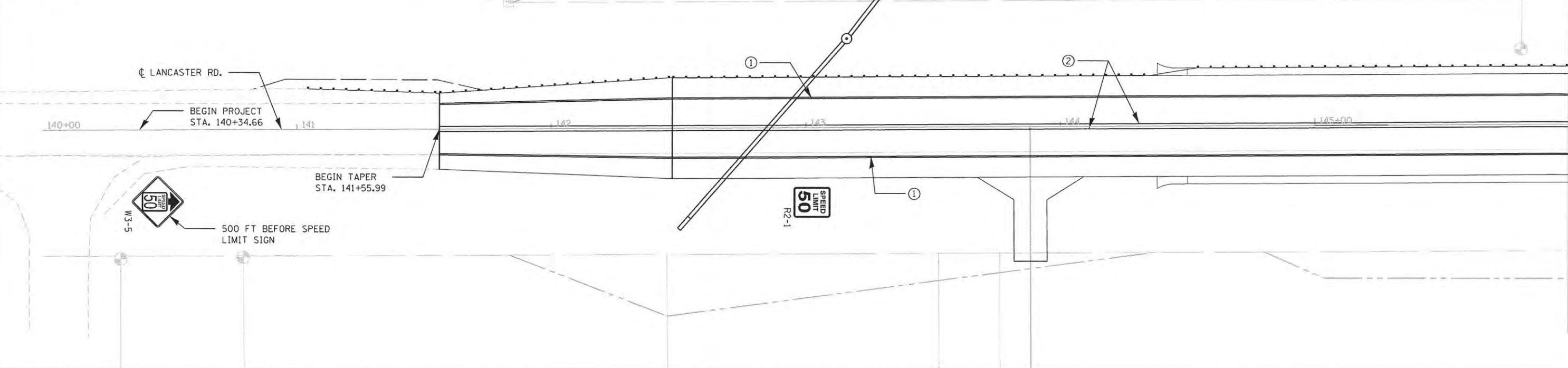
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	

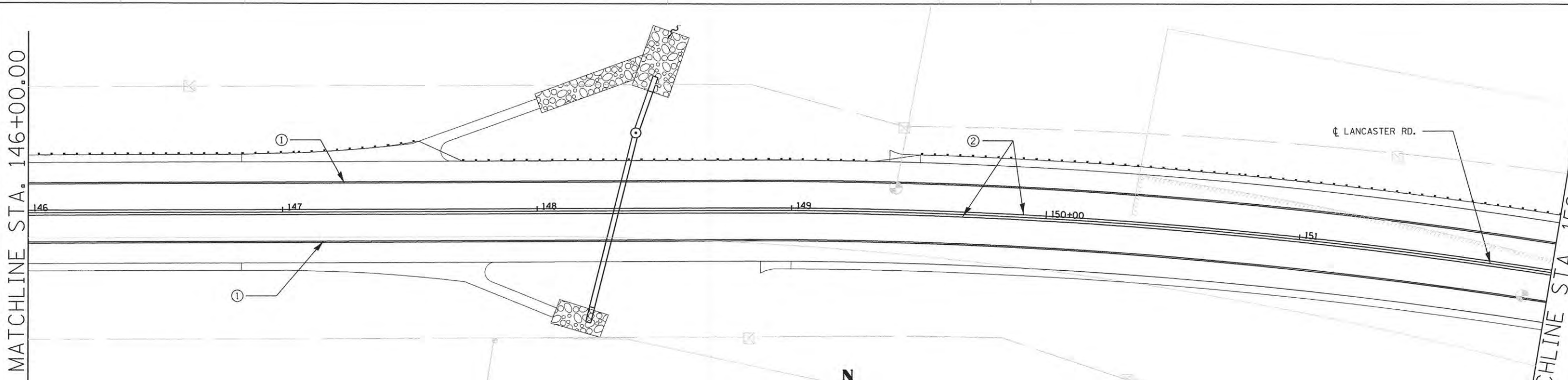




SEE RIGHT-OF-WAY PLANS FOR DIMENSIONS/LOCATIONS OF PROPOSED ROW AND EASEMENTS



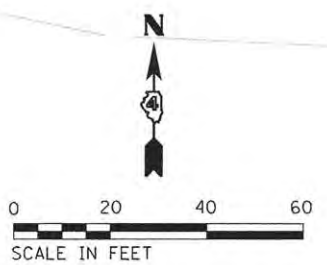
MATCHLINE STA. 146+00.00



MATCHLINE STA. 146+00.00

MATCHLINE STA. 152+00.00

- LEGEND**
- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4" SOLID WHITE
  - ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" SOLID YELLOW LINE



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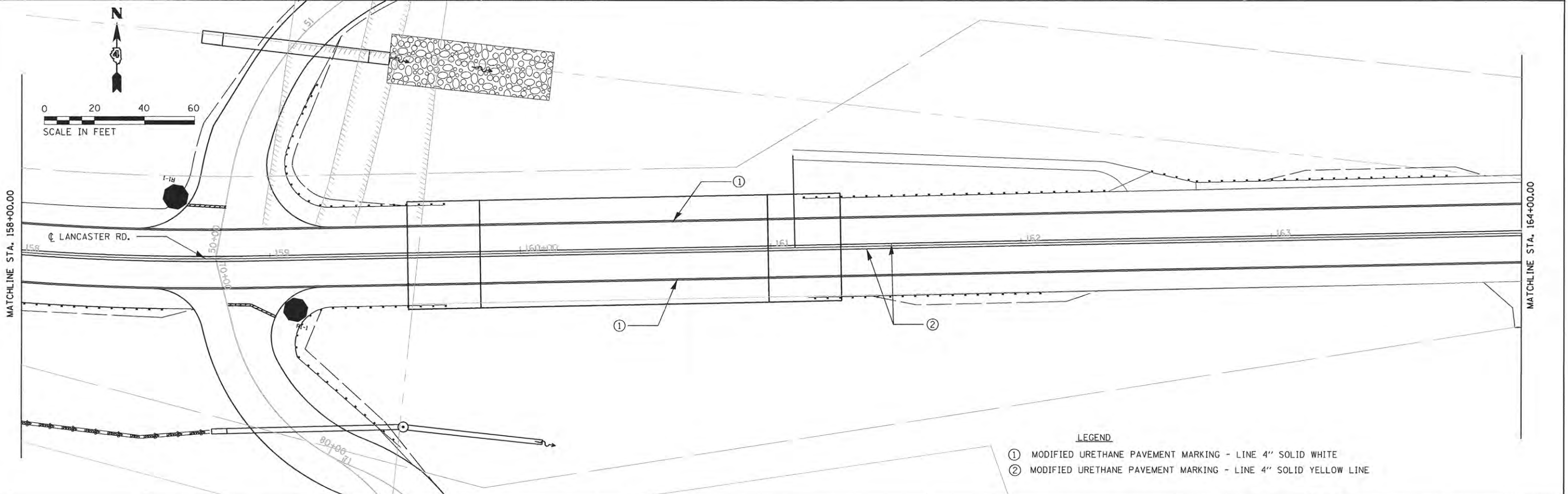
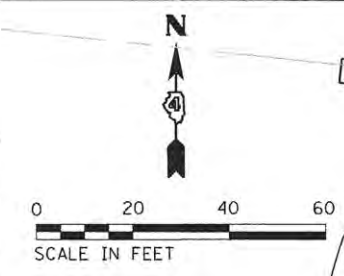
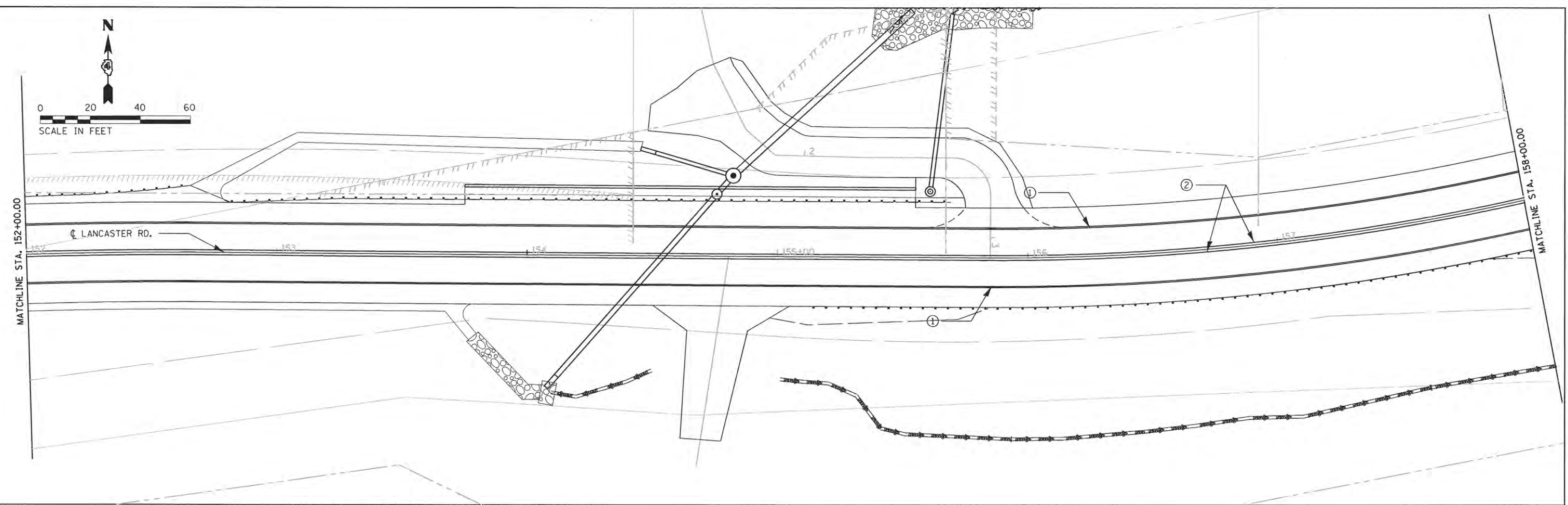
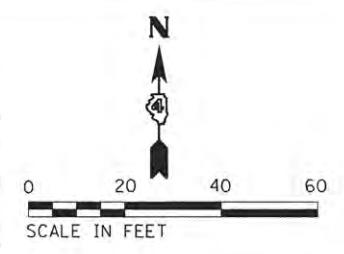
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 CHECKED - KSD  
 DATE - 07/13/16

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 REVISED -

STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

**LANCASTER ROAD OVER W LAMARSH CREEK  
 PAVEMENT MARKING AND SIGNAGE PLAN**  
 SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 141+55.99 TO STA. 151+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	51
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



- LEGEND**
- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4" SOLID WHITE
  - ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" SOLID YELLOW LINE

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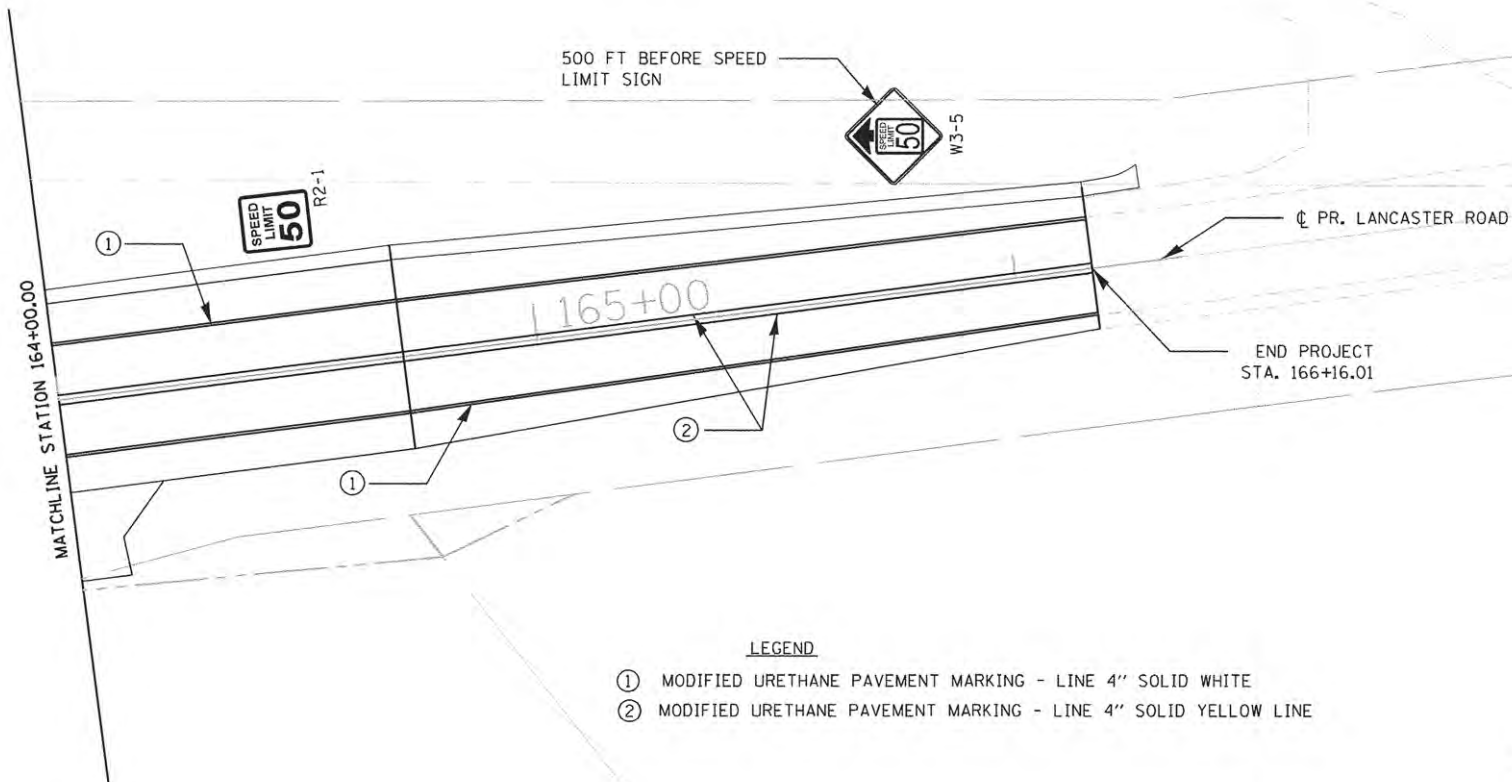
**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**PAVEMENT MARKING AND SIGNAGE PLAN**

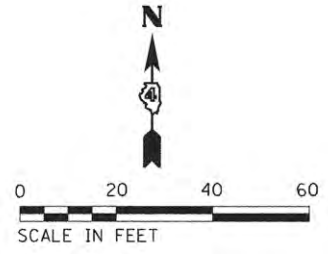
SCALE: 1"=20'    SHEET 2 OF 3 SHEETS    STA. 151+50 TO STA. 163+50

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 52
				CONTRACT NO. 89676
ILLINOIS FED. AID PROJECT				





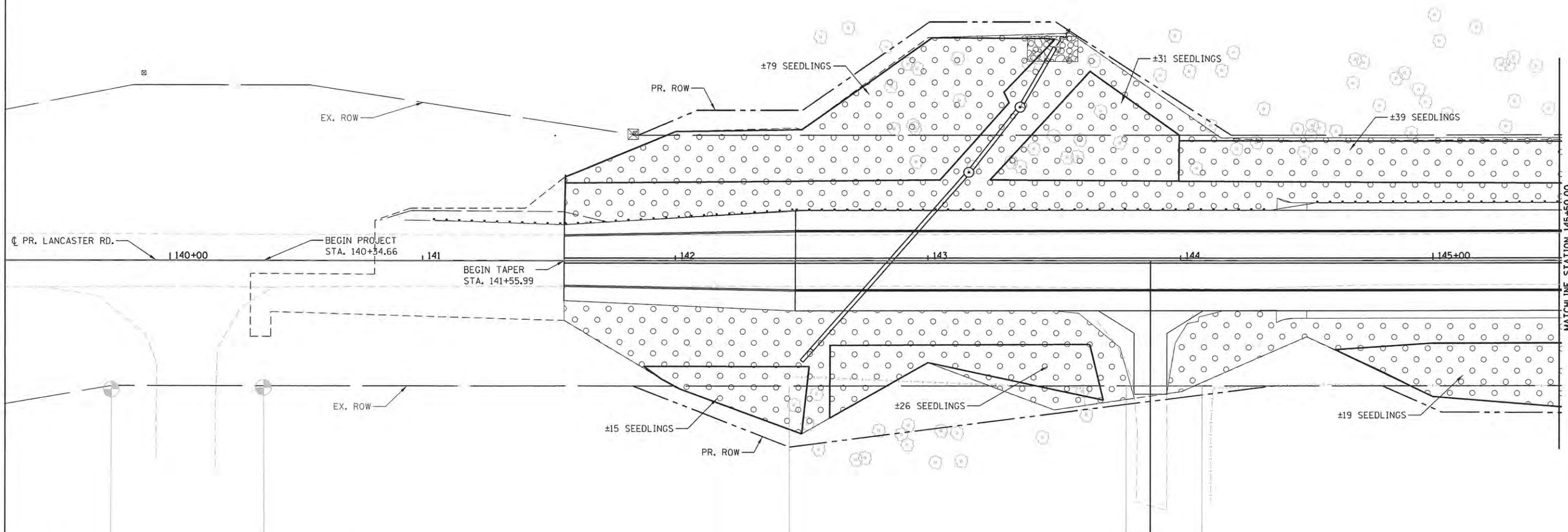
- LEGEND**
- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4" SOLID WHITE
  - ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4" SOLID YELLOW LINE



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	USER NAME = brennar	DESIGNED - BKR	REVISED -	<b>STATE OF ILLINOIS</b> <b>PEORIA COUNTY HIGHWAY DEPARTMENT</b>	<b>LANCASTER ROAD OVER W LAMARSH CREEK</b> <b>PAVEMENT MARKING AND SIGNAGE PLAN</b>	F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 53
	PLOT SCALE = 40,0000' / in.	CHECKED - KSD	REVISIED -			SCALE: 1"=20'	SHEET 3 OF 3 SHEETS	STA. 163+50 TO STA. 166+16.01	CONTRACT NO. 89676 ILLINOIS FED. AID PROJECT	
	PLOT DATE = 7/13/2016	DATE - 07/13/16	REVISIED -							

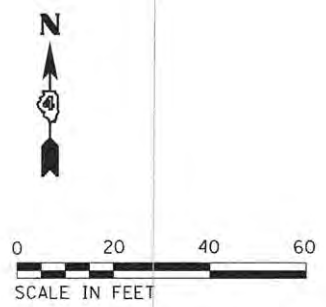
SEE RIGHT-OF-WAY PLANS FOR DIMENSIONS/LOCATIONS OF PROPOSED ROW AND EASEMENTS



**LEGEND**  
 ○ SEEDING, CLASS 3  
 TOPSOIL FURNISH AND PLACE, 4"  
 EROSION CONTROL BLANKET  
 NITROGEN FERTILIZER NUTRIENT  
 PHOSPHORUS FERTILIZER NUTRIENT  
 POTASSIUM FERTILIZER NUTRIENT

● SEEDING, CLASS 1A  
 TOPSOIL FURNISH AND PLACE, 4"  
 EROSION CONTROL BLANKET  
 NITROGEN FERTILIZER NUTRIENT  
 PHOSPHORUS FERTILIZER NUTRIENT  
 POTASSIUM FERTILIZER NUTRIENT

— SEEDLING AREA  
 [Symbol] SEEDLINGS TO BE PLANTED 9FT O.C. TYPICAL IN SEEDLING AREA (SEE SEEDLING DETAIL SHEET)



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USER NAME = brennar	DESIGNED - BKR	REVISED -
PLOT SCALE = 48,0000' / in.	DRAWN - CL/BKR	REVISED -
PLOT DATE = 7/13/2016	CHECKED - KSD	REVISED -
	DATE - 07/13/16	REVISED -

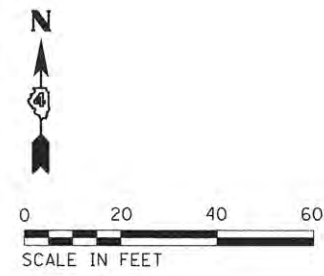
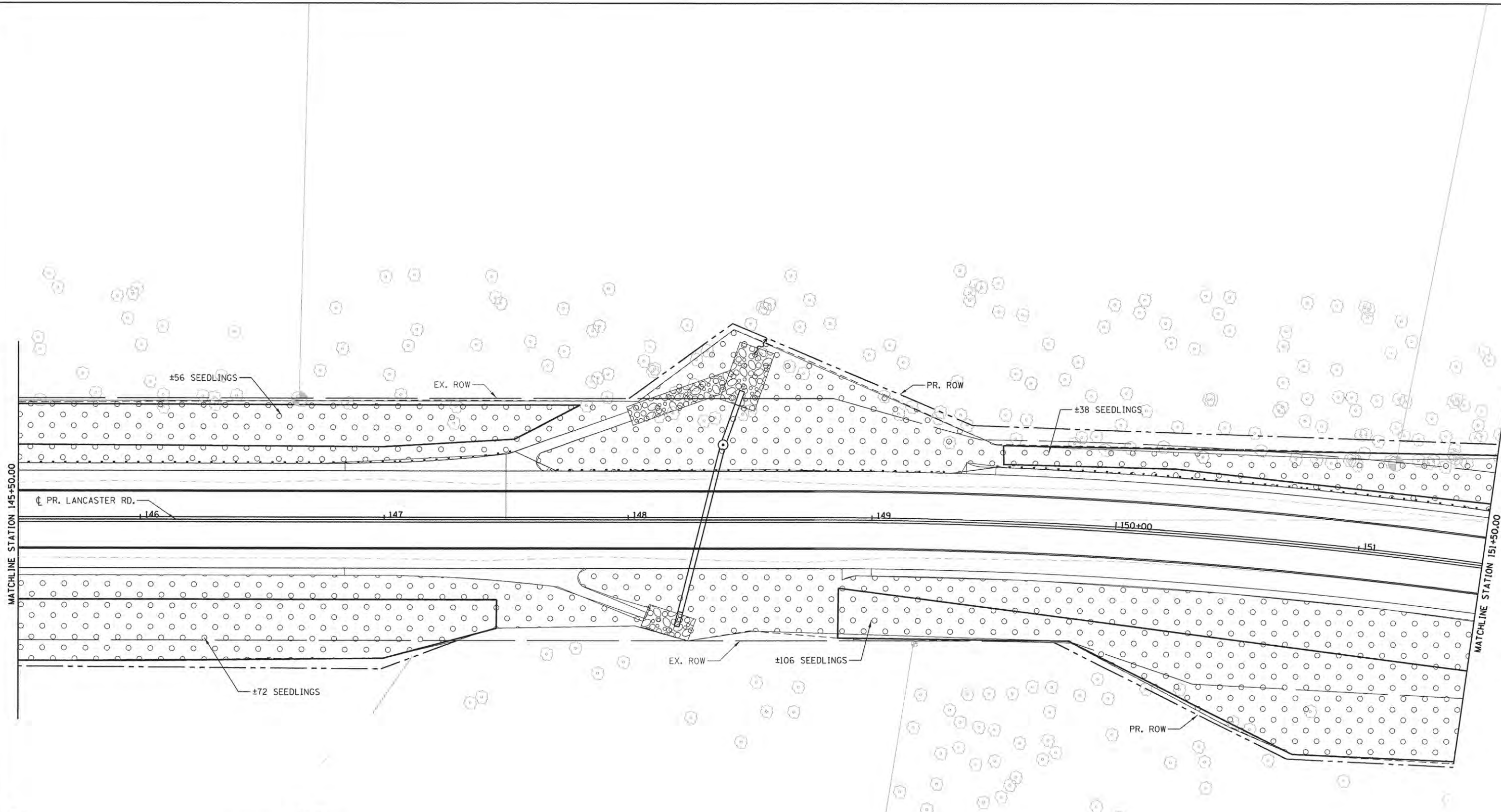
**STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
 LANCASTER RD LANDSCAPING PLAN**

SCALE: 1"=20'    SHEET 1 OF 6 SHEETS    STA. 141+55.99 TO STA. 145+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	54
				CONTRACT NO. 89676
ILLINOIS FED. AID PROJECT				





- LEGEND**
- SEEDING, CLASS 3  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDING, CLASS 1A  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDLING AREA
  - SEEDLINGS TO BE PLANTED 9FT O.C.  
TYPICAL IN SEEDLING AREA  
(SEE SEEDLING DETAIL SHEET)

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	USER NAME = brennar	DESIGNED - BKR	REVISED -	<b>STATE OF ILLINOIS</b> <b>PEORIA COUNTY HIGHWAY DEPARTMENT</b>	<b>LANCASTER ROAD OVER W LAMARSH CREEK</b> <b>LANCASTER RD LANDSCAPING PLAN</b>	F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 55
	PLOT SCALE = 40,0000' / 1" =	CHECKED - KSD	REVISIED -			SCALE: 1"=20'	SHEET 2 OF 6 SHEETS	STA. 145+50 TO STA. 151+50	CONTRACT NO. 89676	
	PLOT DATE = 7/13/2016	DATE - 07/13/16	REVISED -							



- LEGEND**
- SEEDLING, CLASS 3  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDLING, CLASS 1A  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDLING AREA
  - SEEDLINGS TO BE PLANTED 9FT O.C.  
TYPICAL IN SEEDLING AREA  
(SEE SEEDLING DETAIL SHEET)

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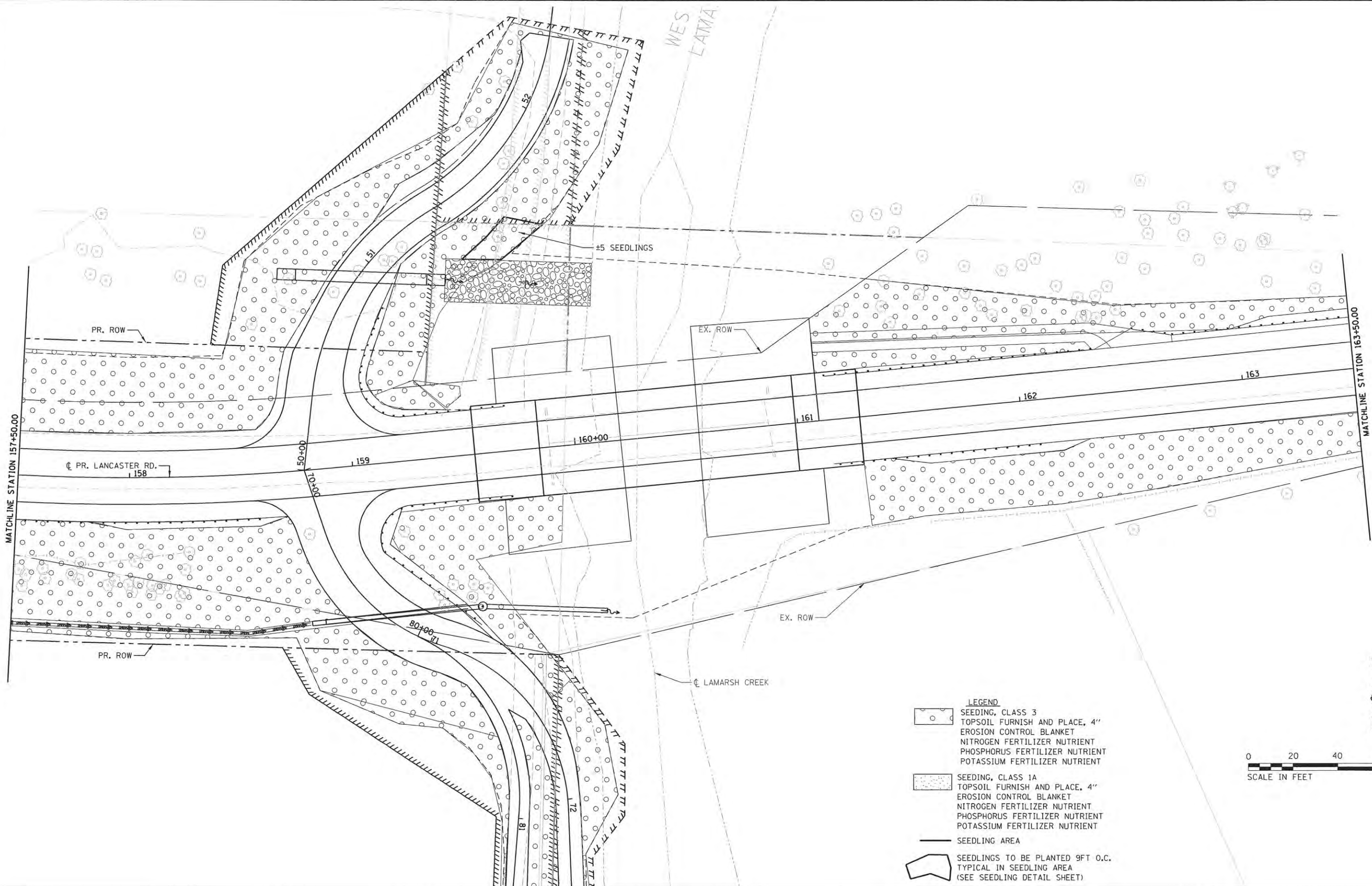
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PLOT DATE = 7/13/2016	CHECKED - KSD	REVISED -
	DATE - 07/13/16	REVISED -

**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

<b>LANCASTER ROAD OVER W LAMARSH CREEK</b> <b>LANCASTER RD LANDSCAPING PLAN</b>		
SCALE: 1"=20'	SHEET 3 OF 6 SHEETS	STA. 151+50 TO STA. 157+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	56
CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				





- LEGEND**
- SEEDING, CLASS 3  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDING, CLASS 1A  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDLING AREA
  - SEEDLINGS TO BE PLANTED 9FT O.C.  
TYPICAL IN SEEDLING AREA  
(SEE SEEDLING DETAIL SHEET)

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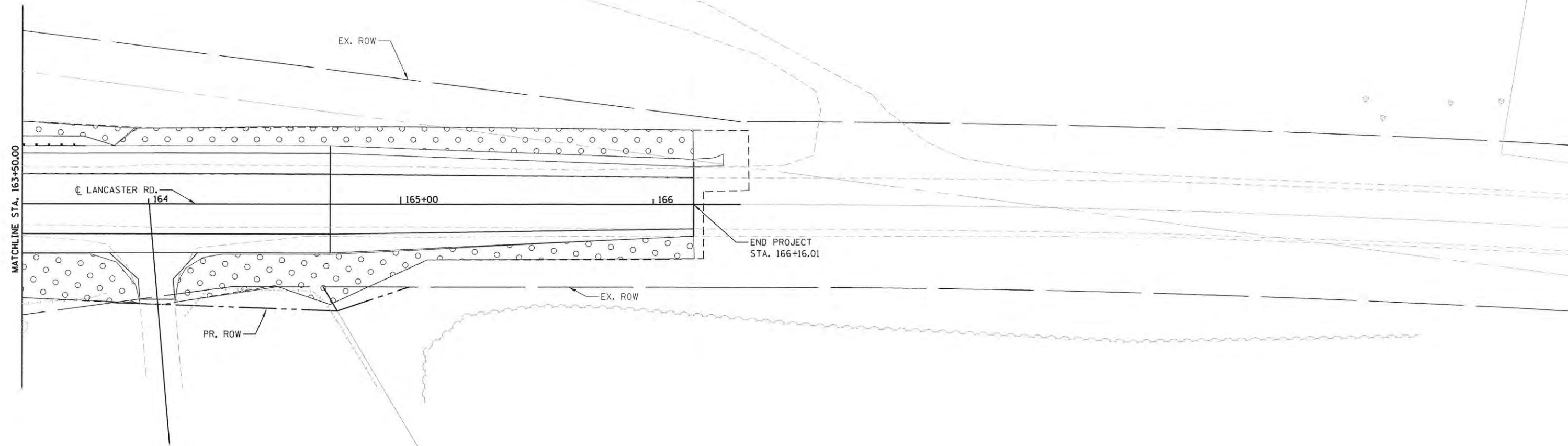
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PLOT DATE = 7/13/2016	CHECKED - KSD	REVISED -
	DATE - 07/13/16	REVISED -

**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

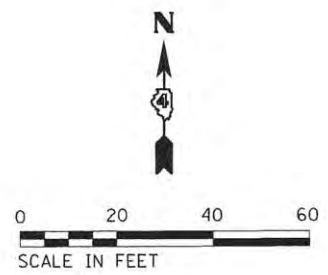
**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER RD LANDSCAPING PLAN**

SCALE: 1"=20'    SHEET 4 OF 6 SHEETS    STA. 157+50 TO STA. 163+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	57
				CONTRACT NO. 89676
ILLINOIS FED. AID PROJECT				



- LEGEND**
- SEEDING, CLASS 3  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDING, CLASS 1A  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDLINGS TO BE PLANTED 9FT O.C.  
TYPICAL IN SEEDLING AREA  
(SEE SEEDLING DETAIL SHEET)
  - SEEDLING AREA



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USER NAME = branner	DESIGNED - BKR	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - CL/BKR	REVISED -
PLOT DATE = 7/13/2016	CHECKED - KSD	REVISED -
	DATE - 07/13/16	REVISED -

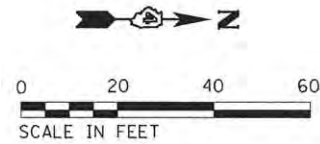
**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER RD LANDSCAPING PLAN**

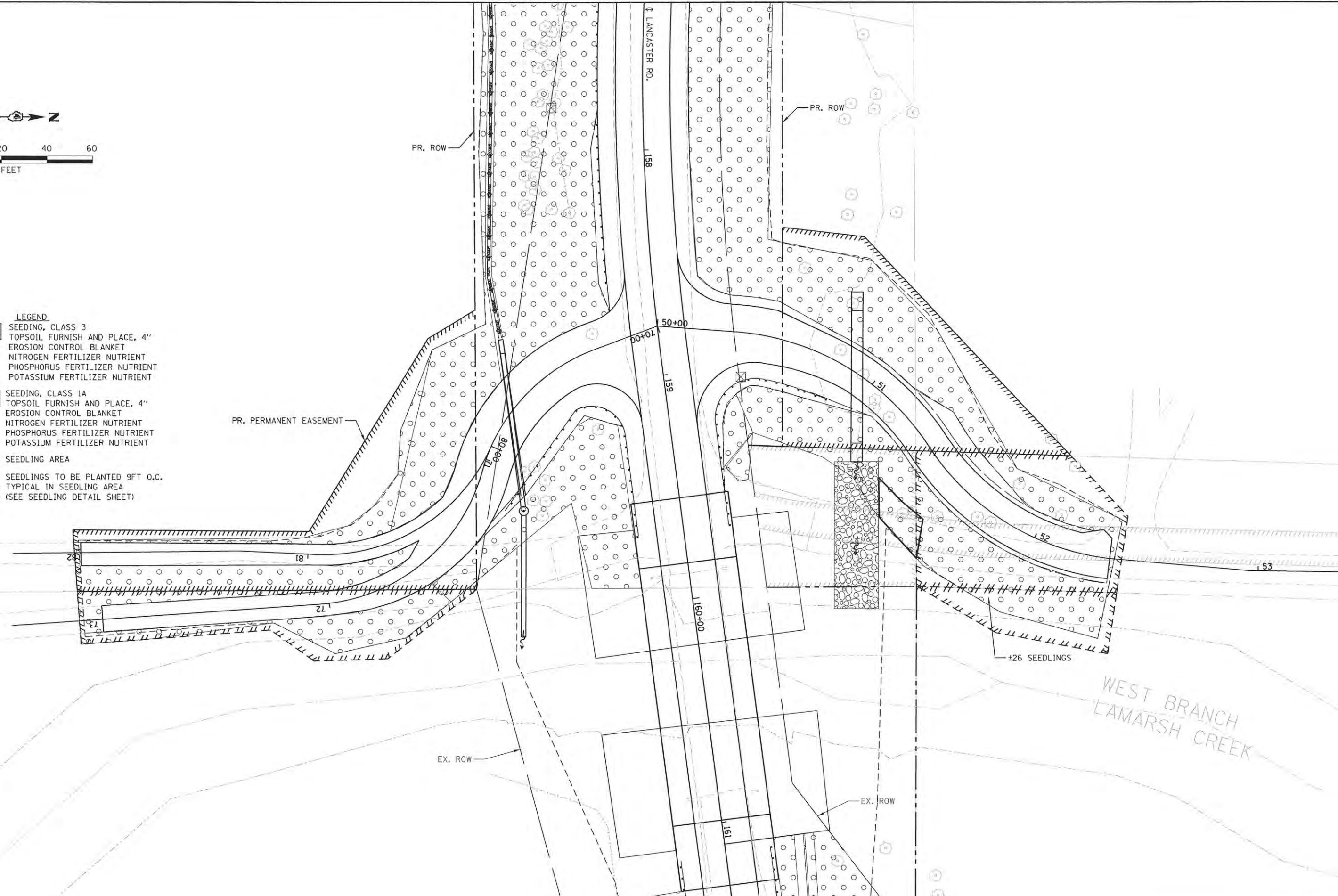
SCALE: 1"=20'    SHEET 5 OF 6 SHEETS    STA. 163+50 TO STA. 166+16.01

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 58
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



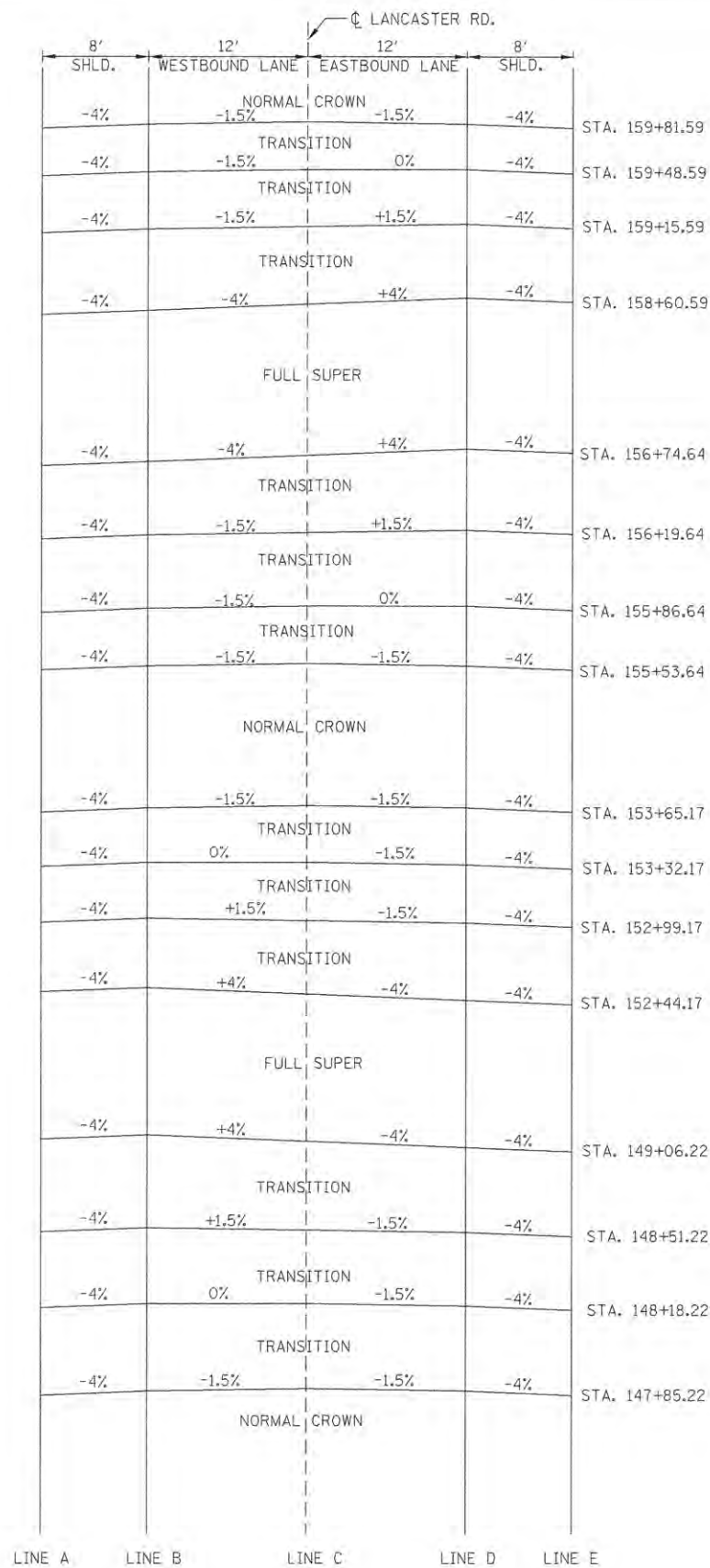


- LEGEND**
- SEEDING, CLASS 3  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDING, CLASS 1A  
TOPSOIL FURNISH AND PLACE, 4"  
EROSION CONTROL BLANKET  
NITROGEN FERTILIZER NUTRIENT  
PHOSPHORUS FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT
  - SEEDLING AREA
  - SEEDLINGS TO BE PLANTED 9FT O.C.  
TYPICAL IN SEEDLING AREA  
(SEE SEEDLING DETAIL SHEET)



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	USER NAME = brennar	DESIGNED - BKR	REVISED -	<b>STATE OF ILLINOIS</b> <b>PEORIA COUNTY HIGHWAY DEPARTMENT</b>	<b>LANCASTER ROAD OVER W LAMARSH CREEK</b> <b>CROY LANE PE LANDSCAPING PLAN</b>	F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 59
	PLOT SCALE = 48,0000' / in.	CHECKED - KSD	REVISED -			SCALE: 1"=20'	SHEET 6 OF 6 SHEETS	STA. TO STA.	CONTRACT NO. 89676	
	PLOT DATE = 7/13/2016	DATE - 07/13/16	REVISED -			ILLINOIS FED. AID PROJECT				



STATION	SHLD WIDTH	SUPERELEVATION TRANSITIONS					SHLD WIDTH	STATION
		ELEVATIONS AT LOCATIONS						
		A	B	C	D	E		
147+85.22	8.00	589.55	589.87	590.05	589.87	589.55	8.00	147+85.22
148+00.00	8.00	588.59	588.91	589.01	588.83	588.51	8.00	148+00.00
148+18.22	8.00	587.42	587.74	587.74	587.56	587.24	8.00	148+18.22
148+25.00	8.00	586.98	587.30	587.26	587.08	586.76	8.00	148+25.00
148+50.00	8.00	585.36	585.68	585.51	585.33	585.01	8.00	148+50.00
148+51.22	8.00	585.29	585.61	585.43	585.25	584.93	8.00	148+51.22
148+75.00	8.00	583.75	584.07	583.76	583.45	583.13	8.00	148+75.00
149+00.00	8.00	582.14	582.46	582.01	581.56	581.24	8.00	149+00.00
149+06.22	8.00	581.74	582.06	581.58	581.10	580.78	8.00	149+06.22
149+25.00	8.00	580.42	580.74	580.26	579.78	579.46	8.00	149+25.00
149+50.00	8.00	578.67	578.99	578.51	578.03	577.71	8.00	149+50.00
149+75.00	8.00	576.92	577.24	576.76	576.28	575.96	8.00	149+75.00
150+00.00	8.00	575.17	575.49	575.01	574.53	574.21	8.00	150+00.00
150+25.00	8.00	573.42	573.74	573.26	572.78	572.46	8.00	150+25.00
150+50.00	8.00	571.67	571.99	571.51	571.03	570.71	8.00	150+50.00
150+75.00	8.00	569.92	570.24	569.76	569.28	568.96	8.00	150+75.00
151+00.00	8.00	568.17	568.49	568.01	567.53	567.21	8.00	151+00.00
151+25.00	8.00	566.42	566.74	566.26	565.78	565.46	8.00	151+25.00
151+50.00	8.00	564.67	564.99	564.51	564.03	563.71	8.00	151+50.00
151+75.00	8.00	562.92	563.24	562.76	562.28	561.96	8.00	151+75.00
152+00.00	8.00	561.17	561.49	561.01	560.53	560.21	8.00	152+00.00
152+25.00	8.00	559.42	559.74	559.26	558.78	558.46	8.00	152+25.00
152+44.17	8.00	558.08	558.40	557.92	557.44	557.12	8.00	152+44.17
152+50.00	8.00	557.64	557.96	557.51	557.29	556.97	8.00	152+50.00
152+75.00	8.00	555.75	556.07	555.76	555.56	555.24	8.00	152+75.00
152+99.17	8.00	553.94	554.26	554.08	553.90	553.58	8.00	152+99.17
153+00.00	8.00	553.88	554.20	554.02	553.84	553.52	8.00	153+00.00
153+25.00	8.00	552.06	552.38	552.34	552.16	551.84	8.00	153+25.00
153+32.17	8.00	551.55	551.87	551.87	551.69	551.37	8.00	153+32.17
153+50.00	8.00	550.30	550.62	550.72	550.54	550.22	8.00	153+50.00
153+65.17	8.00	549.27	549.59	549.77	549.59	549.27	8.00	153+65.17
153+75.00	8.00	548.66	548.98	549.16	548.98	548.66	8.00	153+75.00
154+00.00	8.00	547.17	547.49	547.67	547.49	547.17	8.00	154+00.00
154+25.00	8.00	545.75	546.07	546.25	546.07	545.75	8.00	154+25.00
154+50.00	8.00	544.39	544.71	544.89	544.71	544.39	8.00	154+50.00
154+75.00	8.00	543.09	543.41	543.59	543.41	543.09	8.00	154+75.00
155+00.00	8.00	541.86	542.18	542.36	542.18	541.86	8.00	155+00.00
155+25.00	8.00	540.70	541.02	541.20	541.02	540.70	8.00	155+25.00
155+50.00	8.00	539.60	539.92	540.10	539.92	539.60	8.00	155+50.00
155+53.64	8.00	539.45	539.77	539.95	539.77	539.45	8.00	155+53.64
155+75.00	8.00	538.57	538.89	539.07	539.01	538.69	8.00	155+75.00
155+86.64	8.00	538.11	538.43	538.61	538.61	538.29	8.00	155+86.64
156+00.00	8.00	537.60	537.92	538.10	538.17	537.85	8.00	156+00.00
156+19.64	8.00	536.88	537.20	537.38	537.56	537.24	8.00	156+19.64
156+25.00	8.00	536.66	536.98	537.19	537.40	537.08	8.00	156+25.00
156+50.00	8.00	535.68	536.00	536.35	536.70	536.38	8.00	156+50.00
156+74.64	8.00	534.79	535.11	535.59	536.07	535.75	8.00	156+74.64
156+75.00	8.00	534.78	535.10	535.58	536.06	535.74	8.00	156+75.00
157+00.00	8.00	534.93	535.25	535.73	536.21	535.89	8.00	157+00.00
157+25.00	8.00	533.42	533.74	534.22	534.70	534.38	8.00	157+25.00
157+50.00	8.00	532.84	533.16	533.64	534.12	533.80	8.00	157+50.00
157+75.00	8.00	532.33	532.65	533.13	533.61	533.29	8.00	157+75.00
158+00.00	8.00	531.88	532.20	532.68	533.16	532.84	8.00	158+00.00
158+25.00	8.00	531.50	531.82	532.30	532.78	532.46	8.00	158+25.00
158+50.00	8.00	531.18	531.50	531.98	532.46	532.14	8.00	158+50.00
158+60.59	8.00	531.06	531.38	531.86	532.34	532.02	8.00	158+60.59
158+75.00	8.00	531.00	531.32	531.72	532.12	531.80	8.00	158+75.00
158+81.59	8.00	530.98	531.30	531.67	532.04	531.72	8.00	158+81.59
159+00.00	8.00	530.94	531.26	531.53	531.80	531.48	8.00	159+00.00
159+15.59	8.00	530.95	531.27	531.45	531.63	531.31	8.00	159+15.59
159+25.00	8.00	530.90	531.22	531.40	531.49	531.17	8.00	159+25.00
159+48.59	8.00	530.78	531.10	531.28	531.28	530.96	8.00	159+48.59
159+50.00	8.00	530.78	531.10	531.28	531.10	530.78	8.00	159+50.00
159+75.00	8.00	530.65	530.97	531.15	530.97	530.65	8.00	159+75.00
159+81.59	8.00	530.62	530.94	531.12	530.94	530.62	8.00	159+81.59
160+00.00	8.00	530.53	530.85	531.03	530.85	530.53	8.00	160+00.00
160+25.00	8.00	530.40	530.72	530.90	530.72	530.40	8.00	160+25.00
160+50.00	8.00	530.28	530.60	530.78	530.60	530.28	8.00	160+50.00
160+75.00	8.00	530.15	530.47	530.65	530.47	530.15	8.00	160+75.00
161+00.00	8.00	530.03	530.35	530.53	530.35	530.03	8.00	161+00.00
161+25.00	8.00	529.91	530.23	530.41	530.23	529.91	8.00	161+25.00
161+50.00	8.00	529.78	530.10	530.28	530.10	529.78	8.00	161+50.00
161+75.00	8.00	529.66	529.98	530.16	529.98	529.66	8.00	161+75.00
162+00.00	8.00	529.57	529.89	530.07	529.89	529.57	8.00	162+00.00

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USER NAME = bretnar	DESIGNED - BKR	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN - BKR	REVISED -
PLOT DATE = 7/13/2016	CHECKED - KSD	REVISED -
	DATE - 07/13/16	REVISED -

**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**S.E. TRANSITION SECTIONS**

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

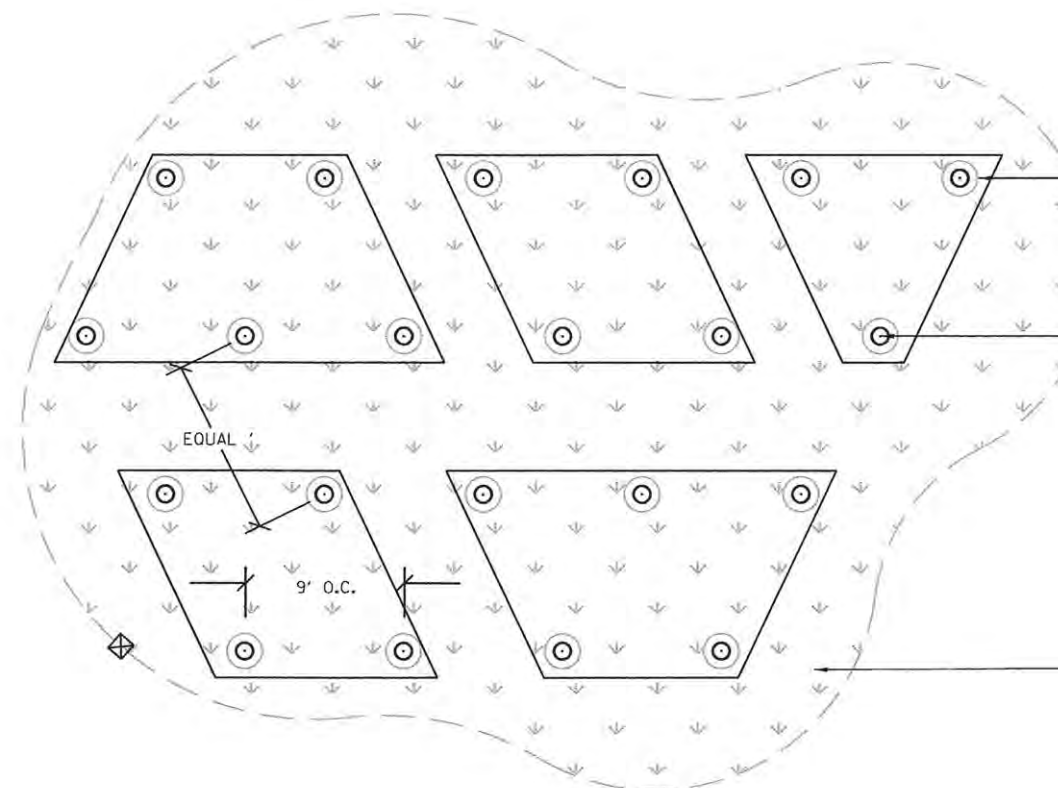
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	60
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				



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SEEDLING MIXTURE

- NORTHERN RED OAK
- RED BUD
- WHITE OAK
- WALNUT
- HICKORY

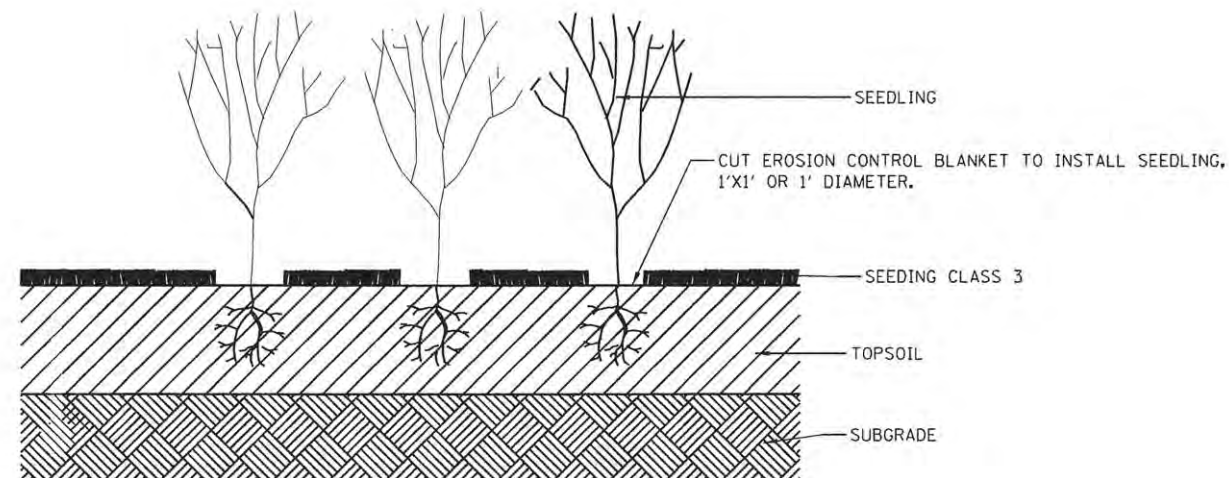


CUT EROSION CONTROL BLANKET TO INSTALL SEEDLING,  
1'X1' OR 1' DIAMETER.

RESTORATION LIMITS

SEEDLINGS SHALL BE PLANTED IN GROUPS OF 3 TO 5 OF THE SAME SPECIES. THE DESIGN INTENT IS TO HAVE AN EQUAL DISTRIBUTION OF ALL SPECIES IN THE SPECIFIED MIX WITHIN THE DESIGNATED RESTORATION AREA. THE DIFFERENCE IN TOTAL QUANTITY BETWEEN SPECIES FOR EACH RESTORATION AREA SHALL BE NO GREATER THAN 5 SEEDLINGS.

SEEDLING CLASS 3



SEEDLING

CUT EROSION CONTROL BLANKET TO INSTALL SEEDLING,  
1'X1' OR 1' DIAMETER.

SEEDLING CLASS 3

TOPSOIL

SUBGRADE

SEEDLING PLANTING DETAIL



USER NAME = brenner	DESIGNED - BKR	REVISED -
	DRAWN - BKR	REVISED -
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STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

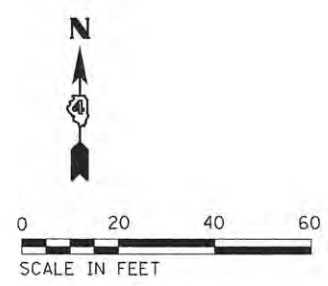
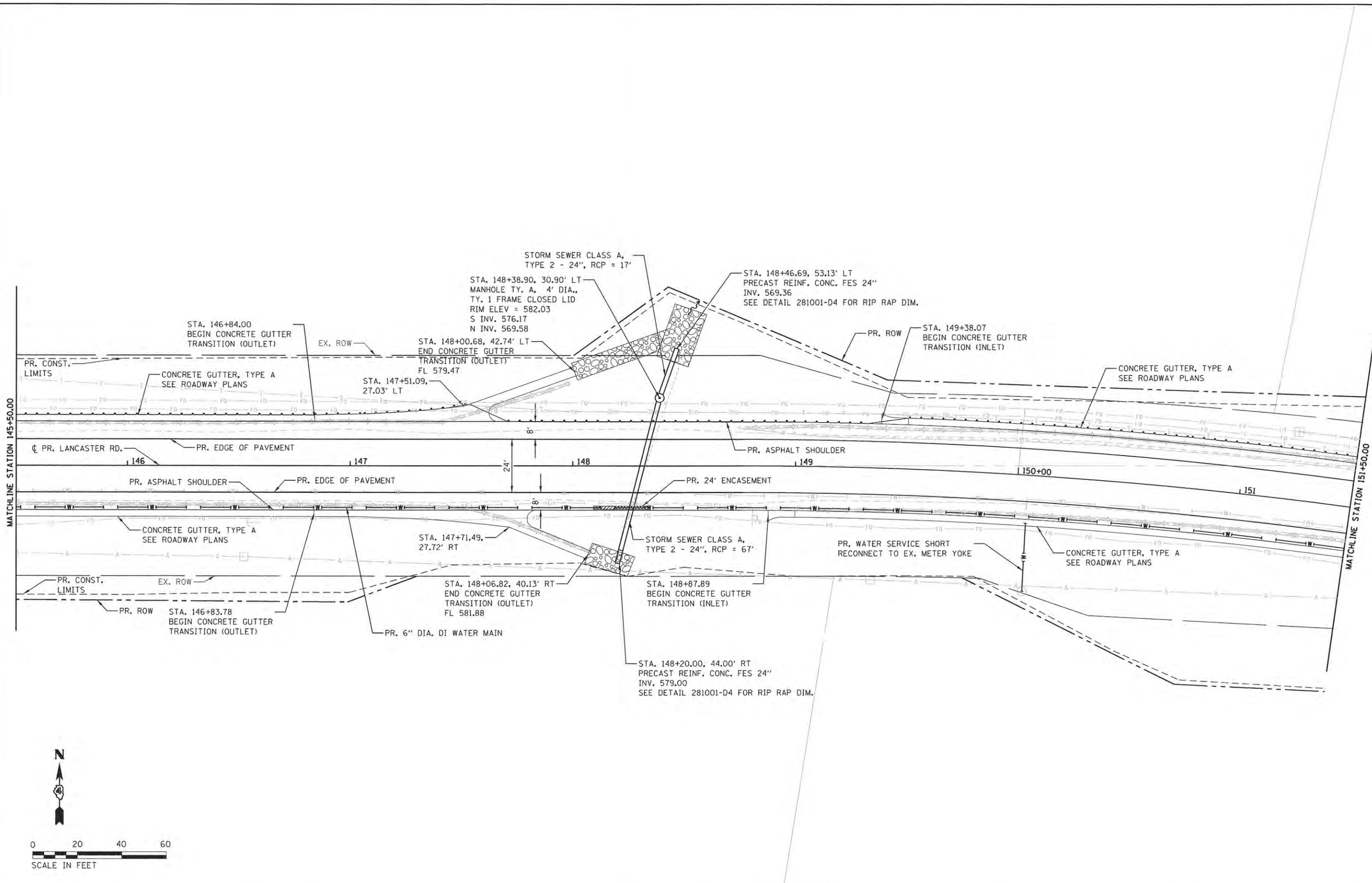
LANCASTER ROAD OVER W LAMARSH CREEK  
SEEDLING DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	61
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	





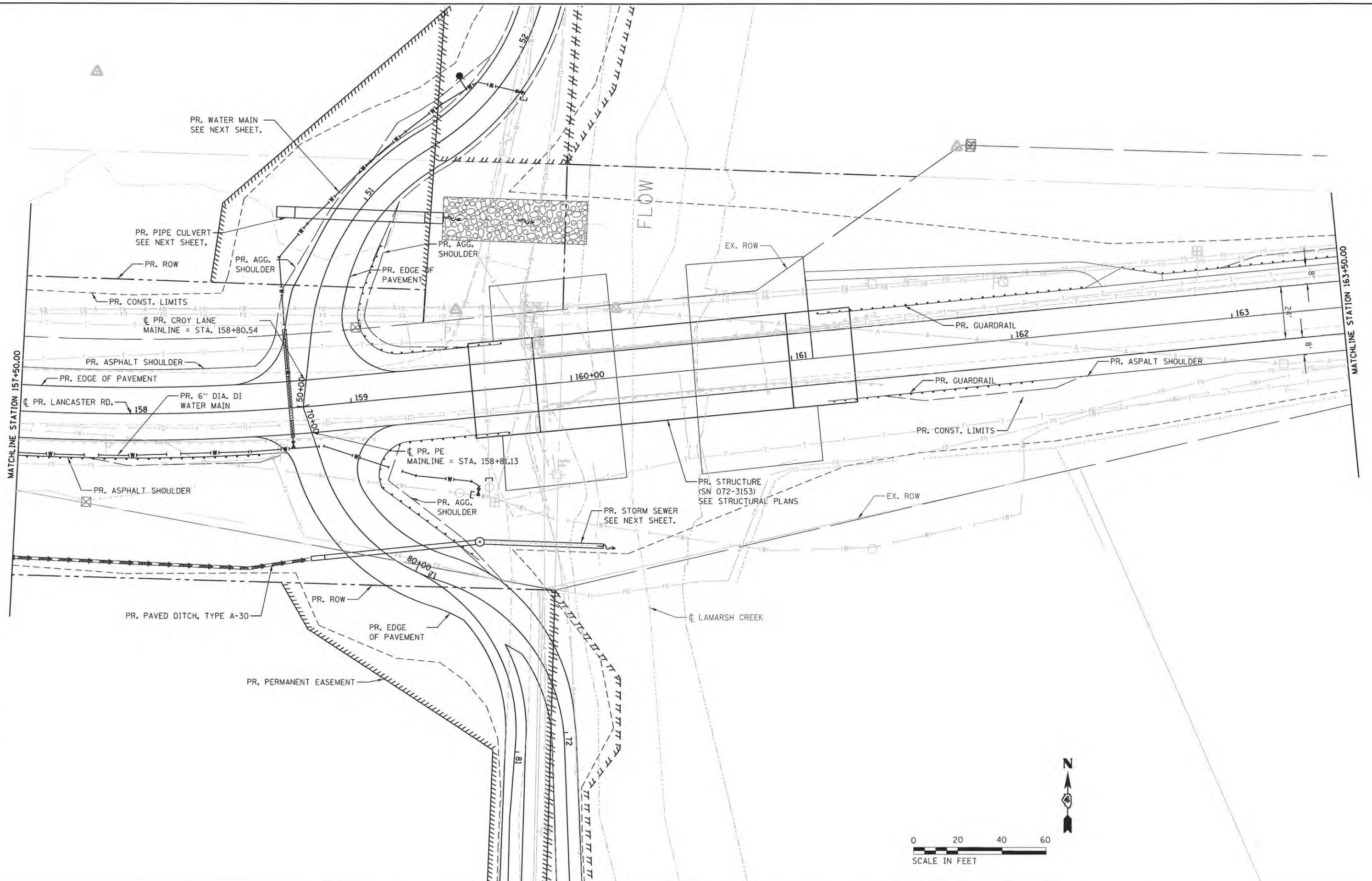


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	PLOT SCALE = 40.0000' / 1"	CHECKED - KSD	REVISED -			SCALE: 1"=20'	SHEET 2 OF 6 SHEETS	STA. 145+50 TO STA. 151+50	CONTRACT NO. 89676	
	PLOT DATE = 7/13/2016	DATE - 07/13/16	REVISED -							







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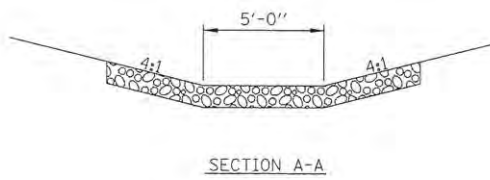
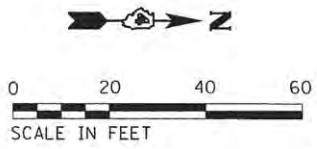
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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

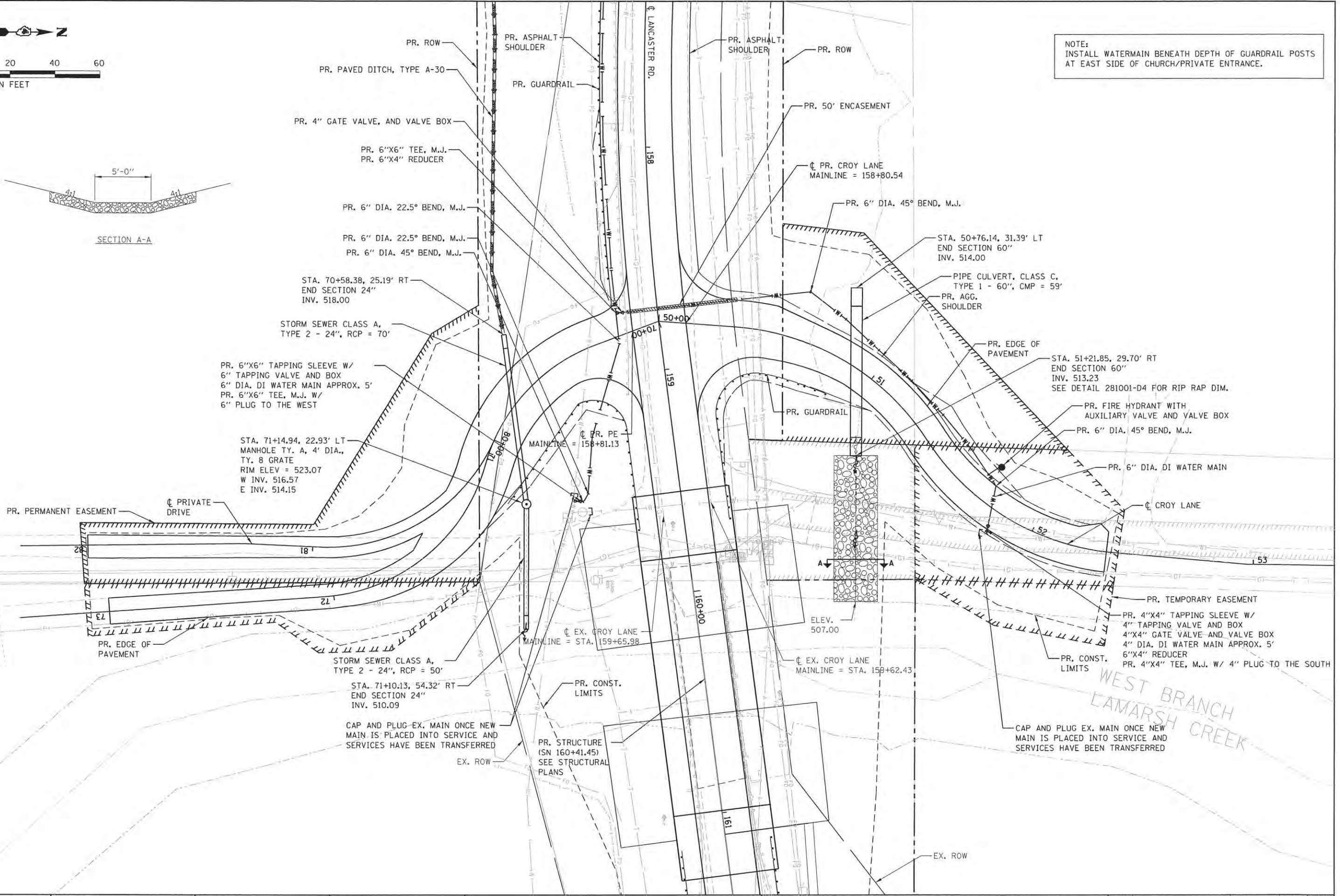
**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER RD DRAINAGE & UTILITY PLAN VIEW**

SCALE: 1"=20' SHEET 4 OF 6 SHEETS STA. 157+50 TO STA. 163+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	65
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



NOTE:  
INSTALL WATERMAIN BENEATH DEPTH OF GUARDRAIL POSTS  
AT EAST SIDE OF CHURCH/PRIVATE ENTRANCE.



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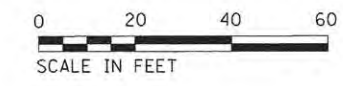
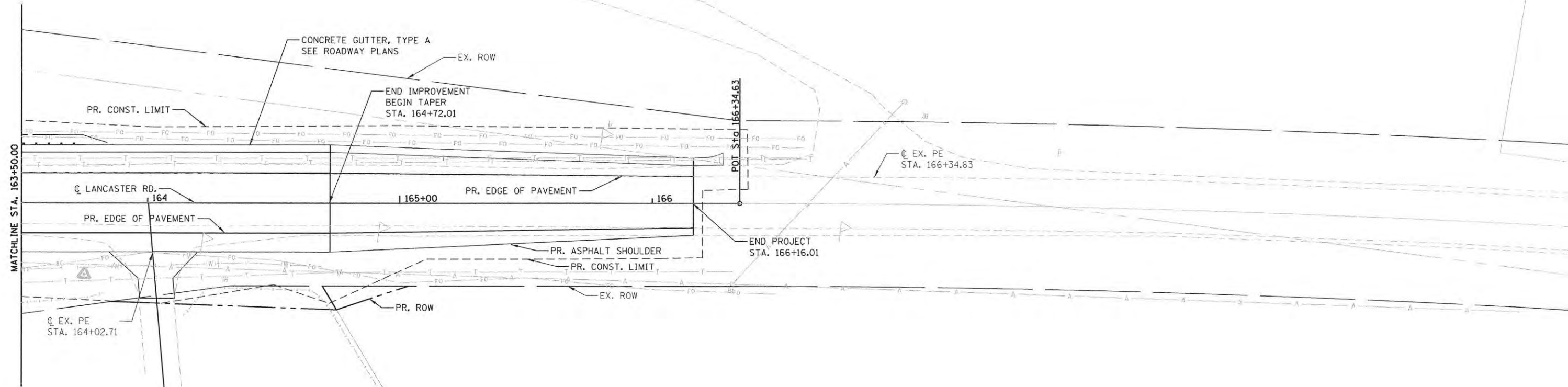
**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
LANCASTER RD DRAINAGE & UTILITY PLAN VIEW**

SCALE: 1"=20'    SHEET 5 OF 6 SHEETS    STA. 163+50 TO STA. 166+16.01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	66
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	





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	DATE - 07/13/16	REVISED -

**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**CROY LANE PE DRAINAGE & UTILITY PLAN VIEW**

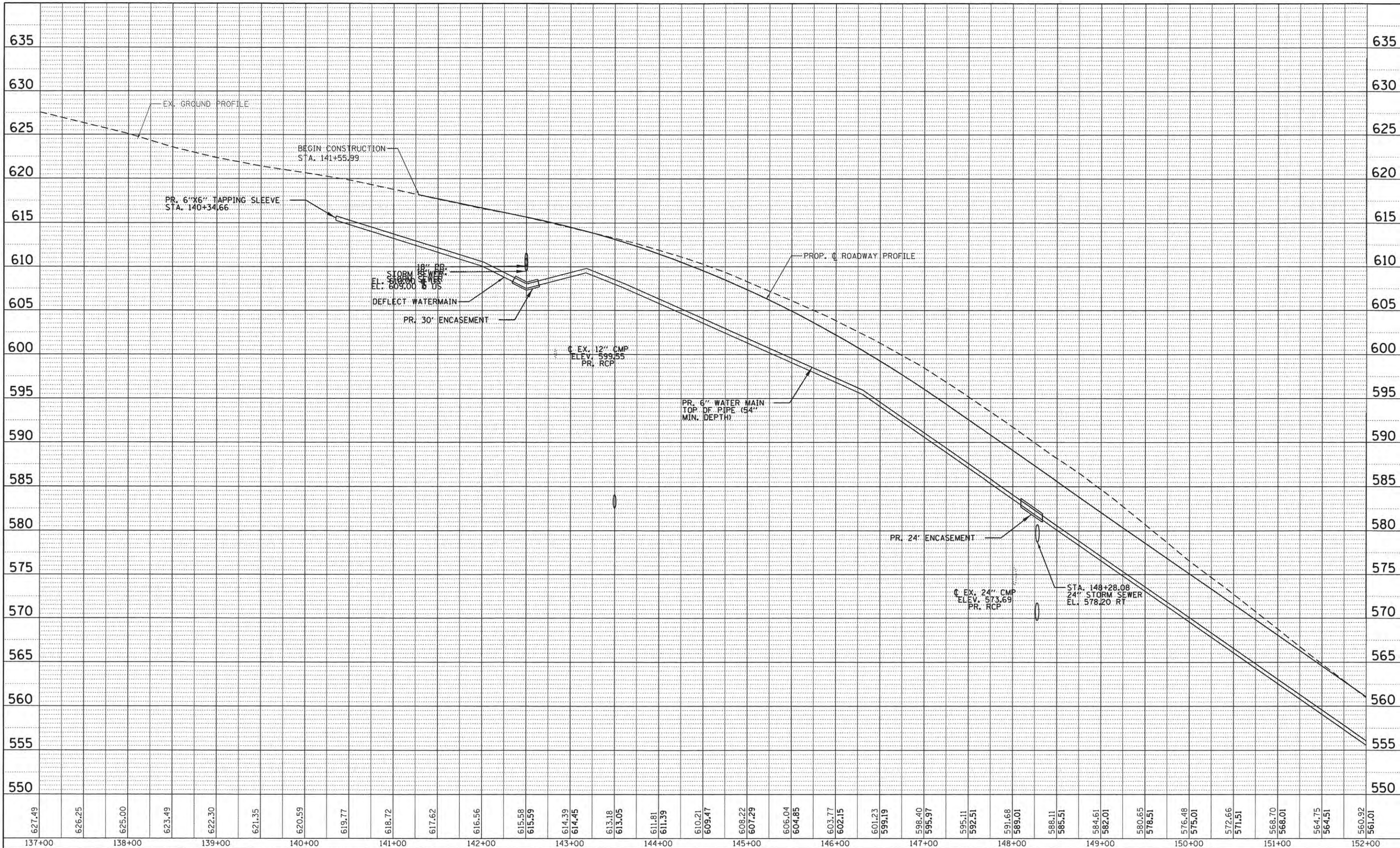
SCALE: 1"=20'    SHEET 6 OF 6 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	67
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	



PLAN	DATE
SURVEYED	BY
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

PROFILE	DATE
SURVEYED	BY
GRADES CHECKED	
BLM. NOTED	
STRUCTURE NOTATIONS CHFD	
NOTE BOOK NO.	
CADD FILE NAME	



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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK**  
**LANCASTER RD WATER MAIN PROFILE VIEW**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	68
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 3 SHEETS STA. 137+00 TO STA. 152+00

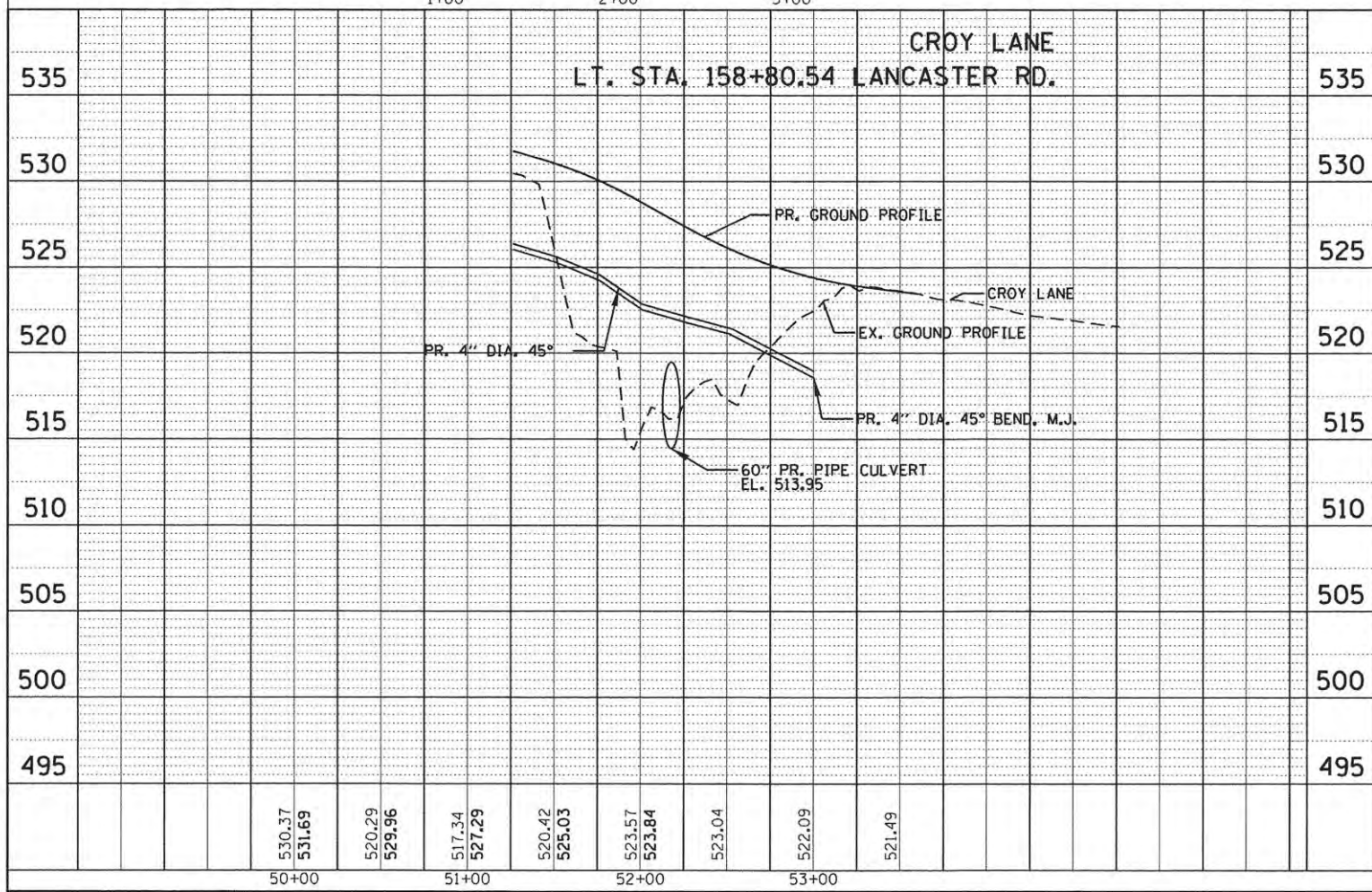
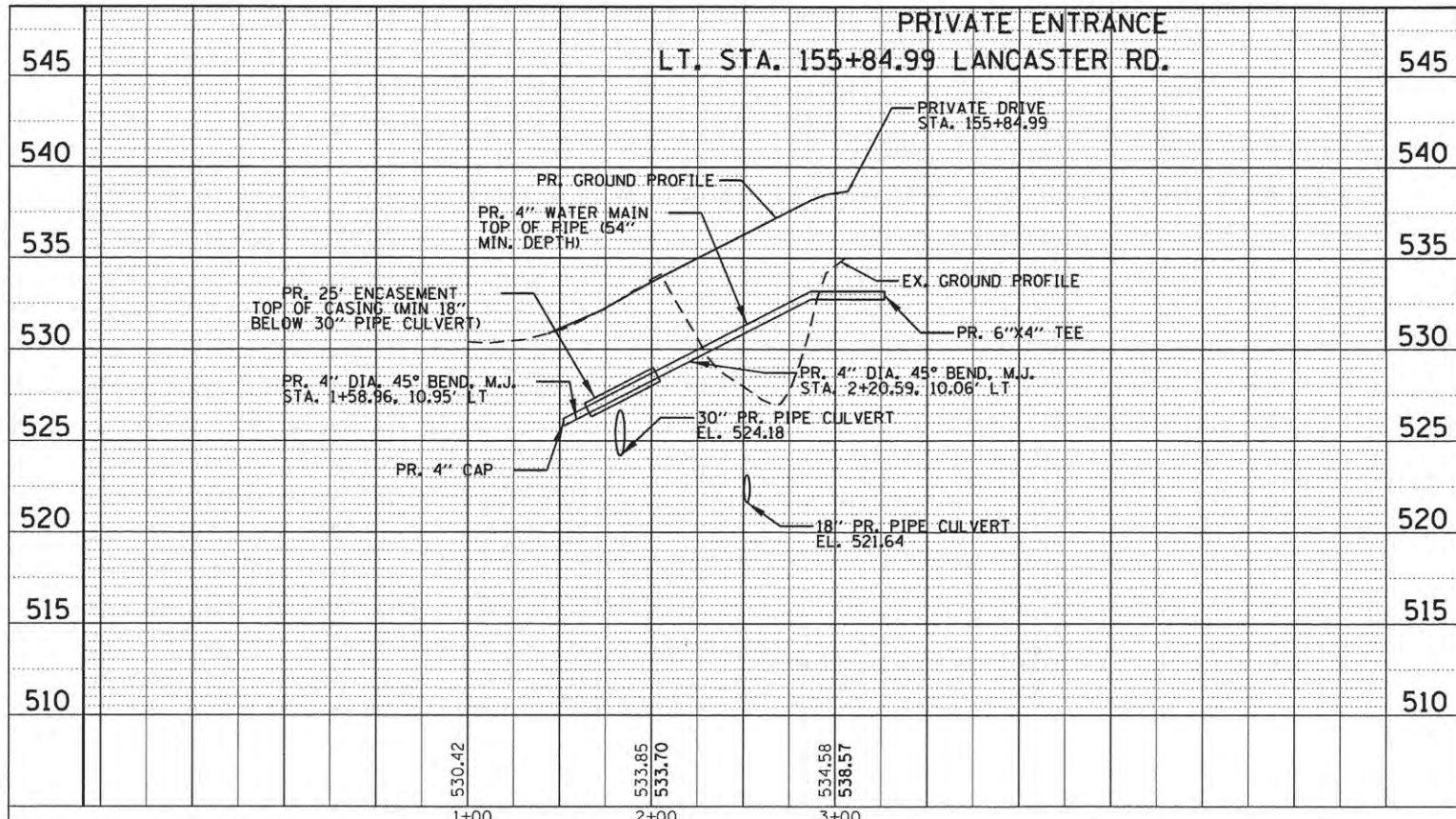






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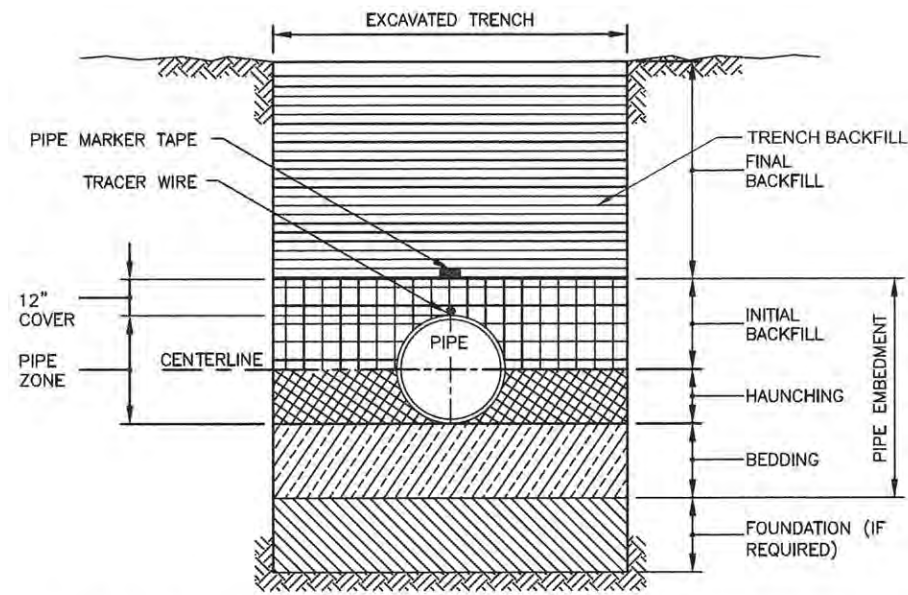
STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
 CROY LANE PE WATER MAIN PROFILE VIEW

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 70
CONTRACT NO. 89676				ILLINOIS FED. AID PROJECT





**TRENCH TERMINOLOGY**

**FOUNDATION:** A FOUNDATION IS NECESSARY ONLY WHEN NATIVE SOILS ARE UNSTABLE. FOR SUCH CONDITIONS, THE TRENCH IS OVER-EXCAVATED AND A LAYER OF SUPPORTIVE MATERIAL IS PLACED AND COMPACTED TO PROVIDE A FIRM FOUNDATION FOR THE SUBSEQUENT PIPE EMBEDMENT MATERIALS.

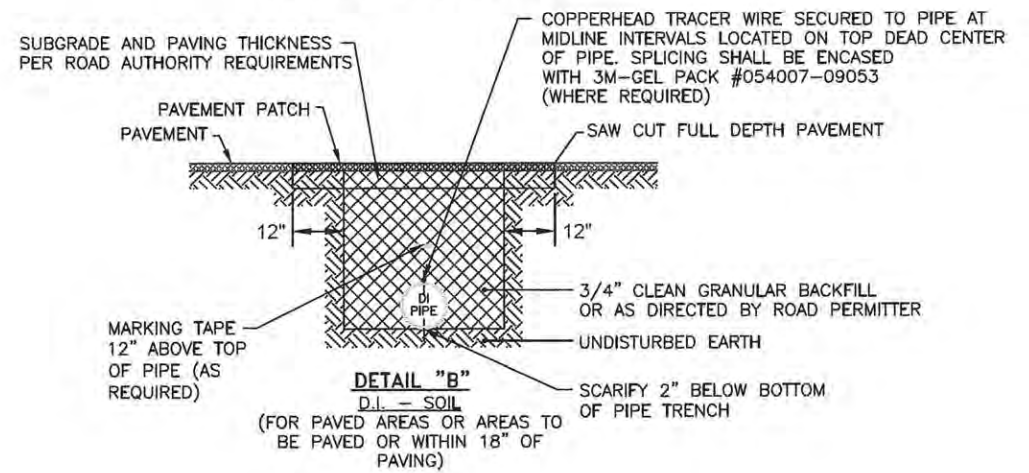
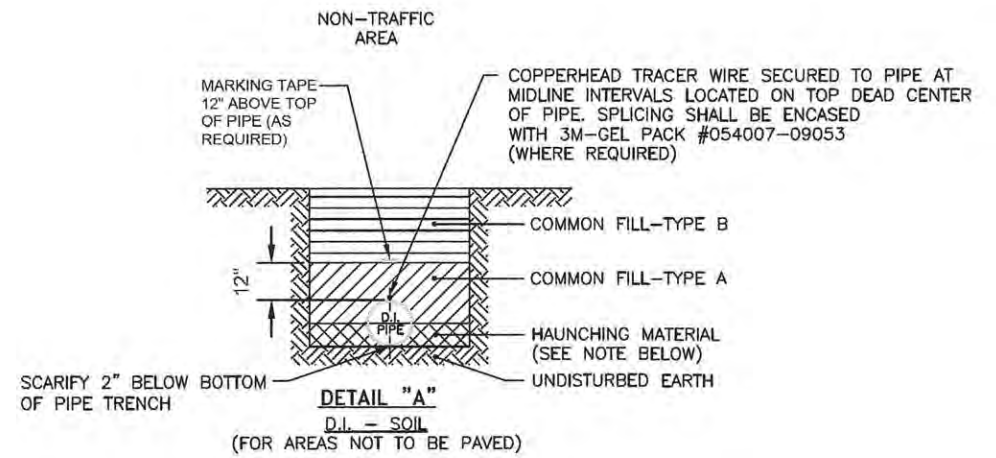
**EMBEDMENT:** THIS ZONE IS THE MOST IMPORTANT IN TERMS OF PIPE PERFORMANCE. IT IS DIVIDED INTO THE FOLLOWING SUB ZONES:

- **BEDDING:** TYPICALLY SIX INCHES OF SUPPORTIVE, COMPACTED MATERIAL. THIS ZONE PROVIDES EVEN SUPPORT FOR THE PIPE AND BRINGS IT TO GRADE. \*
- **HAUNCHING:** EXTENDS FROM THE BOTTOM OF THE PIPE TO THE CENTERLINE OF THE PIPE. IT PROVIDES THE MOST RESISTANCE TO PIPE DEFLECTION. SPECIFYING PROPER MATERIALS AND COMPACTION ARE MOST IMPORTANT FOR THIS ZONE. IN MOST CASES NATIVE MATERIAL IS ACCEPTABLE. MATERIAL SHALL BE FREE OF ROCKS AND BE PLACED BY HAND TO PROTECT POLYETHYLENE ENCASING.
- **INITIAL BACKFILL:** EXTENDS FROM THE SPRINGLINE TO A POINT ABOVE THE TOP OF THE PIPE. THIS ZONE PROVIDES SOME PIPE SUPPORT AND HELPS TO PREVENT DAMAGE TO THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. THE COVER EXTENDS FROM THE TOP OF THE PIPE TO THE TOP OF THE INITIAL BACKFILL. THE DEPTH OF COVER SHOULD BE AS MUCH AS NECESSARY TO PROTECT THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. TWELVE INCHES IS A COMMON DEPTH OF COVER.

**FINAL BACKFILL:** THIS ZONE EXTENDS FROM THE TOP OF THE INITIAL BACKFILL TO THE TOP OF THE TRENCH. THIS ZONE HAS LITTLE INFLUENCE ON PIPE PERFORMANCE, BUT CAN BE IMPORTANT TO THE INTEGRITY OF ROADS AND STRUCTURES.

\* UNLESS OTHERWISE DIRECTED BY COMPANY, OR FIELD CONDITIONS REQUIRE, BEDDING IS NOT REQUIRED FOR DUCTILE IRON MAIN. CONTRACTOR SHALL SCARIFY 2" BELOW BOTTOM OF PIPE.

**PIPE TRENCH TERMINOLOGY DETAIL**



NOTE: SEE SPECIFICATION SECTION 02210 FOR DESCRIPTION OF BACKFILL AND BEDDING MATERIAL.

**NOTES:**

1. CAUTION MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HAUNCHES OF THE PIPE. NATIVE SOIL IS ACCEPTABLE UNLESS DIRECTED BY COMPANY.

**TRENCH - D.I. PIPE IN SOIL DETAIL**

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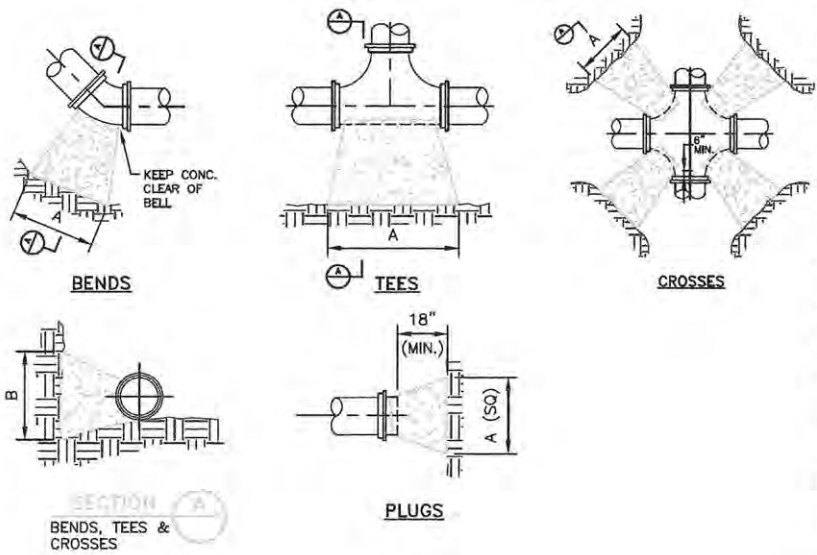
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**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**LANCASTER ROAD OVER W LAMARSH CREEK  
WATER MAIN DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	71
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				



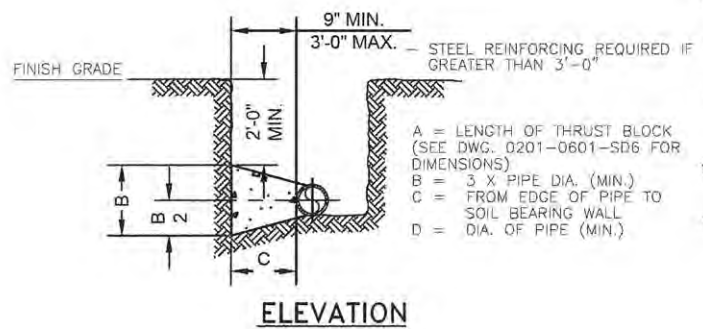
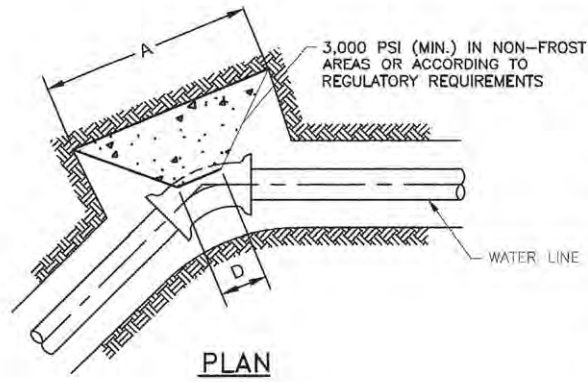
- NOTES:**
- COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
  - THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
  - NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
  - THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
  - BASED ON 200 PSI (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER) AND 2000 PSF SOIL BEARING.
  - PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
  - ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
  - ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
  - ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
  - THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
  - PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
  - FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
  - FOR MAIN SIZES GREATER THAN 16", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.

**REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS**

PIPE SIZE	90 DEGREE BENDS		45 DEGREE BENDS		11.25 DEGREE BENDS		22.5 DEGREE BENDS		TEES/PLUGS		
	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"	"B"
8	5.3	45" 18"	2.9	23" 18"	0.7	8" 18"	1.6	12" 18"	3.7	30" 18"	18"
9	9.2	55" 24"	5.0	30" 24"	1.3	8" 24"	2.5	15" 24"	6.4	39" 24"	24"
10	13.5	65" 30"	7.5	36" 30"	1.9	9" 30"	3.8	18" 30"	9.7	46" 30"	30"
12	19.4	78" 36"	10.6	42" 36"	2.7	11" 36"	5.3	21" 36"	13.9	55" 36"	36"
14	26.5	89" 42"	14.0	48" 42"	3.6	12" 42"	7.2	25" 42"	18.5	63" 42"	42"
16	33.7	101" 48"	18.3	56" 48"	4.7	14" 48"	9.4	28" 48"	23.9	72" 48"	48"

Area in square feet "A" and "B" in inches  
Bearing table area is based on 200 psi maximum with soil bearing capacity of 2000 lbs/square foot.  
For higher water pressures or lower soil pressures, consult Engineer for adjustments.  
Bearing table area does not include a safety factor.  
A safety factor and additional bearing area may be required as directed by the Engineer.

**THRUST BLOCK DETAILS**



- GENERAL NOTES:**
- COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR MINIMUM 30" IN NON-FROST AREAS OR ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
  - THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
  - NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
  - THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
  - DIMENSION "C" BASED ON MINIMUM BEARING AREA. 18" MINIMUM.
  - PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
  - ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH APPROVED MATERIAL AFTER CONCRETE HAS SET.
  - ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
  - ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
  - THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
  - PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE 3000 PSI CONCRETE MINIMUM.

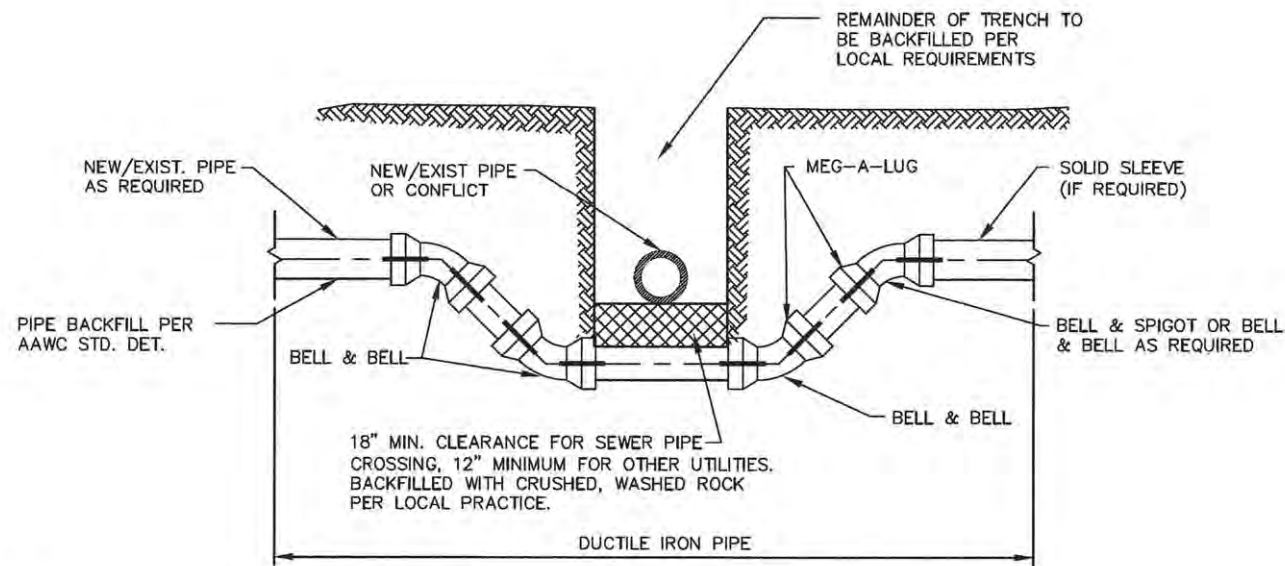
\* BEARING AREAS ARE BASED ON SOIL HAVING AN ALLOWABLE SAFE LATERAL BEARING OF 2000 POUNDS PER SQUARE FOOT AND 200 PSI TEST PRESSURE. AREA MUST BE REVISED FOR SOILS WITH A LOWER BEARING CAPACITY OR HIGHER TEST PRESSURE.

**THRUST BLOCK AT HORIZONTAL BENDS (LESS THAN 3 FEET IN THICKNESS) DETAIL**

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	USER NAME = bretnar	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>PEORIA COUNTY HIGHWAY DEPARTMENT</b></p>	<p align="center"><b>LANCASTER ROAD OVER W LAMARSH CREEK</b> <b>WATER MAIN DETAIL</b></p>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000 1" = 10'	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	389
PLOT DATE = 7/13/2016	DATE = 07/13/16	REVISED -									CONTRACT NO. 89676	
											ILLINOIS FED. AID PROJECT	





**NOTES:**

1. ALL PIPE TO BE JOINT RESTRAINED.
2. PIPE IS TO BE DUCTILE IRON, MINIMUM PRESSURE CLASS 350.
3. BEGIN/END RESTRAINED JOINT STATIONING TO BE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. ALL BENDS & FITTINGS SHALL HAVE STATIONING AND ELEVATION SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. THE BOTTOM ELEVATION OF THE CONFLICT AND THE TOP ELEVATION OF THE DUCTILE IRON PIPE AT THE CENTERLINE OF THE CONFLICT SHALL BE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
4. SEPARATION REQUIREMENTS SHALL BE FOLLOWED WITH REGARD TO CONFLICT PIPE.

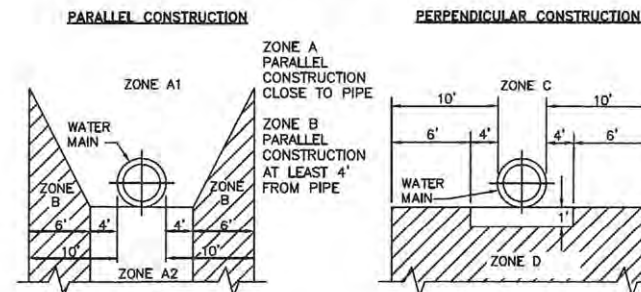
**LEGEND:**



**VERTICAL REALIGNMENT OF WATER MAINS DETAIL**

**SPECIAL CONSTRUCTION REQUIREMENTS**

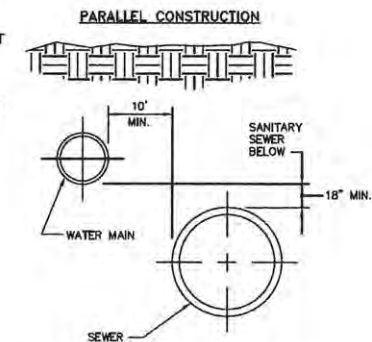
WHERE REQUIRED WATER MAIN SEPARATION FROM SEWER CANNOT BE MAINTAINED



IF AN EXISTING SEWER IS LOCATED WITHIN ZONES A1, A2, B, C, OR D OF A PROPOSED WATER MAIN, THE FOLLOWING SPECIAL REQUIREMENTS APPLY:

**ZONE**

- NO WATER MAINS SHALL BE CONSTRUCTED WITHOUT SPECIAL PERMISSION FROM THE APPROPRIATE HEALTH OR ENVIRONMENTAL REGULATOR.
- IF THE SEWER DOES NOT MEET ZONE B REQUIREMENTS, THE WATER MAIN SHALL BE OF PRESSURE CLASS 200 PIPE FOR PVC AND CLASS 350 FO D.I. PIPE. SEWER SHALL BE CONSTRUCTED EQUAL TO WATER PIPE AND TESTED FOR WATER TIGHTNESS.
- NO WATER MAINS SHALL BE CONSTRUCTED WITHOUT SPECIAL PERMISSION FROM THE HEALTH REGULATOR. IF PERMISSION IS GRANTED, THE SEWER PIPE SHALL BE ENCASED AND/OR REPLACED WITH WATER MAIN GRADE PIPE AND THE WATER MAIN SHALL BE OF CLASS 200 PIPE OR EQUIVALENT.



**SPECIAL REQUIREMENTS FOR WATER MAIN DETAIL**

**REQUIRED SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS**

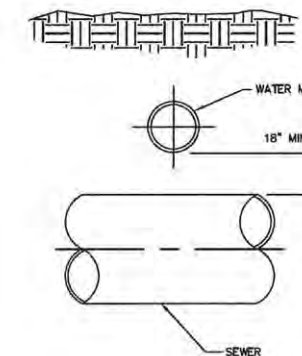
**BASIC SEPARATION REQUIREMENTS:**

WATER MAINS AND SEWERS SHOULD BE SEPARATED AS FAR AS IS REASONABLE IN BOTH THE HORIZONTAL AND VERTICAL DIRECTIONS WITH SEWERS LOWER THAN WATER MAINS.

PARALLEL CONSTRUCTION: THE HORIZONTAL DISTANCE BETWEEN PRESSURE WATER MAINS AND SEWERS SHALL BE AT LEAST 10 FEET

PERPENDICULAR CONSTRUCTION (CROSSING): PRESSURE WATER MAINS SHALL BE AT LEAST 18" ABOVE SANITARY SEWERS WHERE THESE LINES MUST CROSS.

**PERPENDICULAR CONSTRUCTION**



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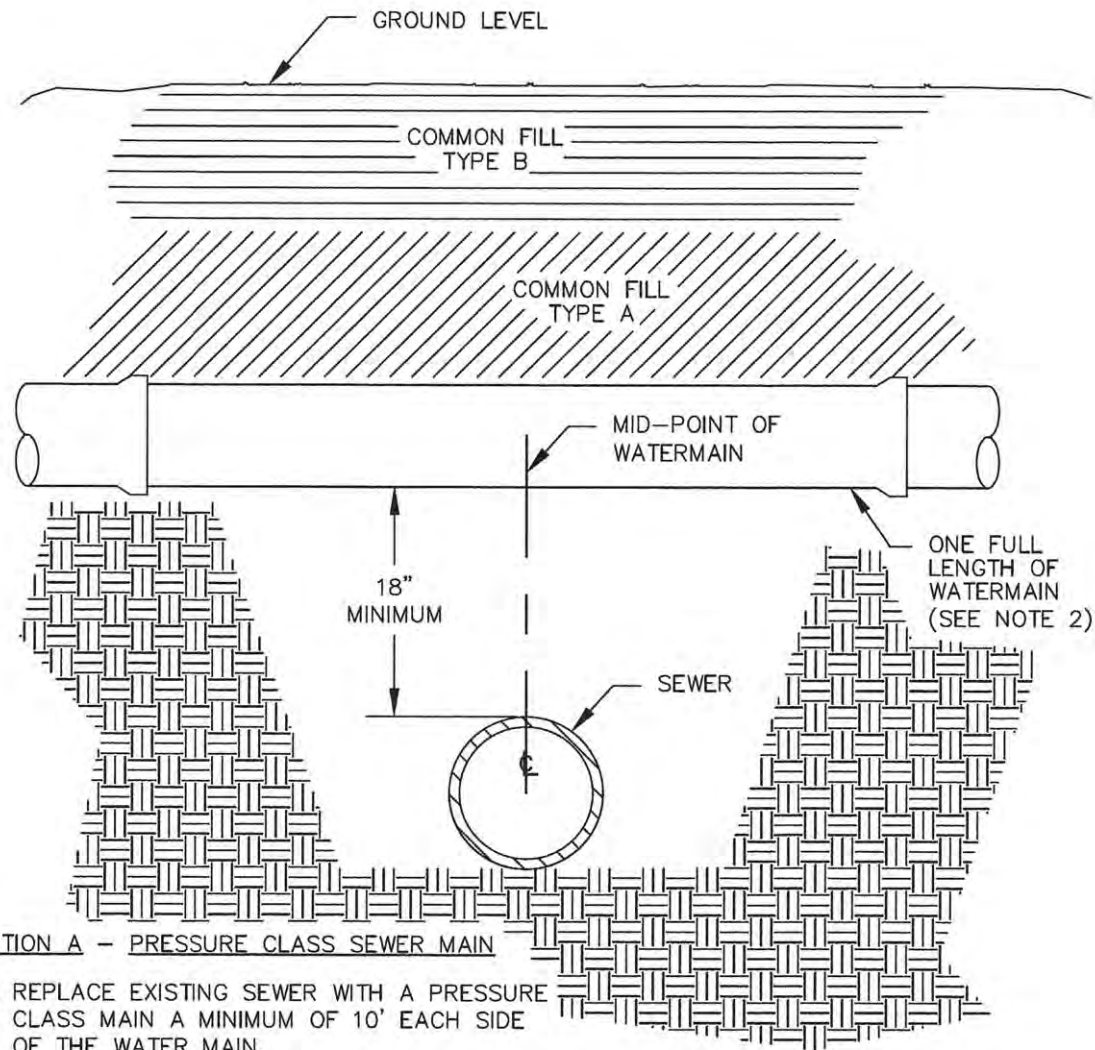
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PLOT DATE = 7/13/2016	CHECKED -	REVISED -
	DATE = 07/13/16	REVISED -

STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
WATER MAIN DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	73
CONTRACT NO.				89676
ILLINOIS FED. AID PROJECT				



**OPTION A - PRESSURE CLASS SEWER MAIN**

- 1.) REPLACE EXISTING SEWER WITH A PRESSURE CLASS MAIN A MINIMUM OF 10' EACH SIDE OF THE WATER MAIN.

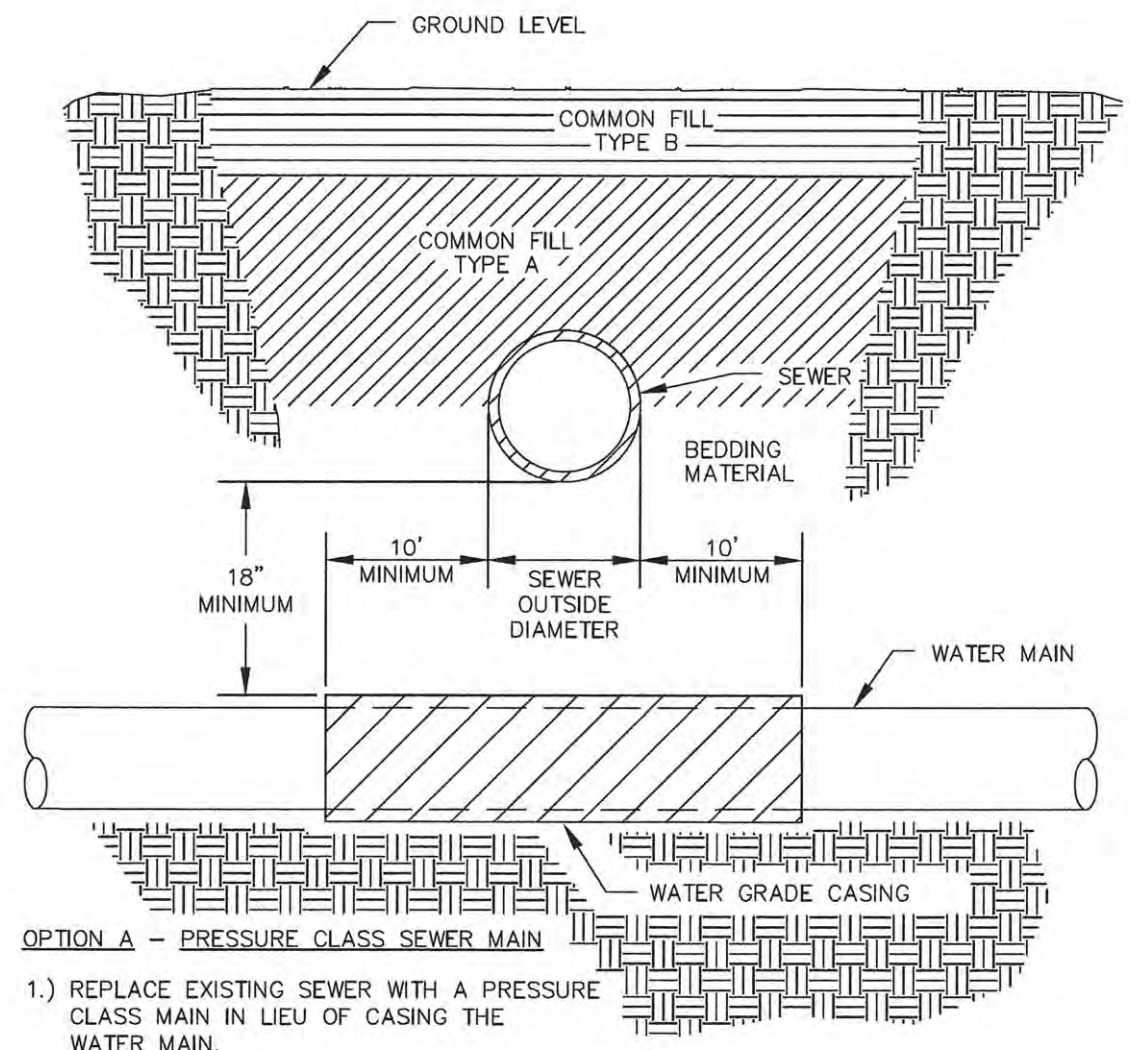
**OPTION B - WATER MAIN INSTALLATION**

- 1.) MID-POINT OF ONE FULL LENGTH OF WATER MAIN IS TO BE CENTERED ABOVE SEWER LINE.
- 2.) PROVIDE ADEQUATE SUPPORT FOR THE WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT.

**NOTES:**

- 1.) FOLLOW TRENCH MATERIAL DETAIL WHEN BACK-FILLING WATER MAIN.

**WATER MAIN CROSSING OVER SEWER DETAIL**



**OPTION A - PRESSURE CLASS SEWER MAIN**

- 1.) REPLACE EXISTING SEWER WITH A PRESSURE CLASS MAIN IN LIEU OF CASING THE WATER MAIN.
- 2.) THE SEWER SHALL BE REPLACED A MINIMUM OF 10' EACH SIDE OF THE WATERMAIN.

**OPTION B - WATER MAIN CASING INSTALLATION**

- 1.) PROVIDE ADEQUATE SUPPORT FOR THE EXISTING SEWER TO PREVENT DAMAGE DUE TO SETTLEMENT.

**NOTES:**

- 1.) FOLLOW TRENCH MATERIAL DETAIL WHEN BACK-FILLING WATER MAIN.

**WATER MAIN CROSSING UNDER SEWER DETAIL**

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USER NAME = brennar	DESIGNED -	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 7/13/2016	CHECKED -	REVISED -
	DATE - 07/13/16	REVISED -

STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
WATER MAIN DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 74
			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				



MAXIMUM JOINT DEFLECTION  
FULL-LENGTH PIPE-PUSH-ON TYPE JOINT PIPE

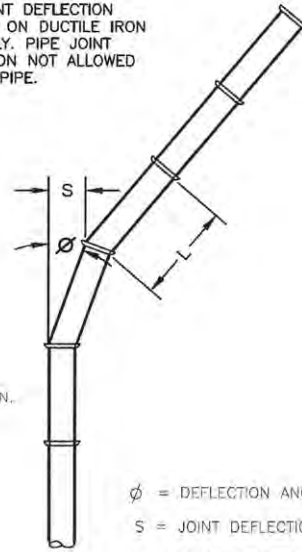
NOMINAL PIPE SIZE INCHES	DEFLECTION ANGLE DEGREES	MAX OFFSET - S INCHES				APPROXIMATE RADIUS OF CURVATURE - R PRODUCED BY SUCCESSION OF ANGLED JOINTS FEET	
		L=18 FT	L=20 FT	L=18 FT	L=20 FT	L=18 FT	L=20 FT
3	4	15	17	256	285		
4	4	15	17	256	285		
6	4	15	17	256	285		
8	4	15	17	256	285		
10	4	15	17	256	285		
12	4	15	17	256	285		
14	4	9	10	429	476		
16	2.5	9	10	429	476		
18	2.5	9	10	429	476		
20	2.5	9	10	429	476		
24	2.5	9	10	429	476		

NOMINAL PIPE SIZE INCHES	DEFLECTION ANGLE DEGREES	MAX OFFSET - S INCHES				APPROXIMATE RADIUS OF CURVATURE - R PRODUCED BY SUCCESSION OF ANGLED JOINTS FEET	
		L=18 FT	L=20 FT	L=18 FT	L=20 FT	L=18 FT	L=20 FT
3	4	15	17	256	285		
4	4	15	17	256	285		
6	4	15	17	256	285		
8	4	15	17	256	285		
10	4	15	17	256	285		
12	4	15	17	256	285		
14	4	9	10	429	476		
16	2.5	9	10	429	476		
18	2.5	9	10	429	476		
20	2.5	9	10	429	476		
24	2.5	9	10	429	476		

PIPE CURVE GEOMETRY DETAIL

NOTE:

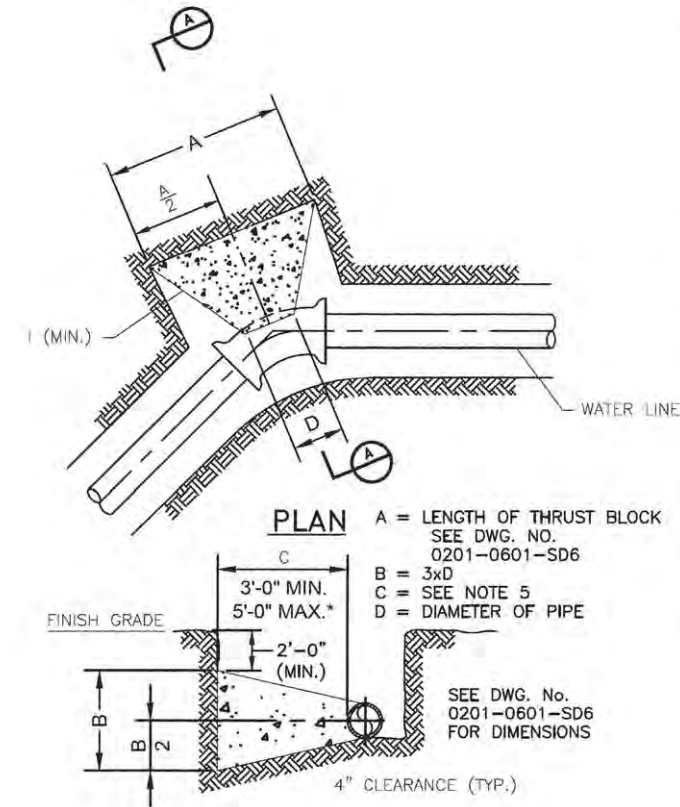
- PIPE JOINT DEFLECTION ALLOWED ON DUCTILE IRON PIPE ONLY. PIPE JOINT DEFLECTION NOT ALLOWED ON PVC PIPE.



NOTE:

\*L-STANDARD LENGTH OF PIPE SECTION.

- φ = DEFLECTION ANGLE
- S = JOINT DEFLECTION OFFSET
- L = LAYING LENGTH
- R = RADIUS OF CURVE
- $R = \frac{L}{2 \tan \frac{\phi}{2}}$



\* SPECIAL DESIGN REQUIRED IF GREATER THAN 5'-0"

SECTION A-A  
N.T.S.

\* BEARING AREAS ARE BASED ON SOIL HAVING AN ALLOWABLE SAFE LATERAL BEARING OF 2000 POUNDS PER SQUARE FOOT AND 200 PSI TEST PRESSURE. AREA MUST BE REVISED FOR SOILS WITH A LOWER BEARING CAPACITY OR HIGHER TEST PRESSURE.

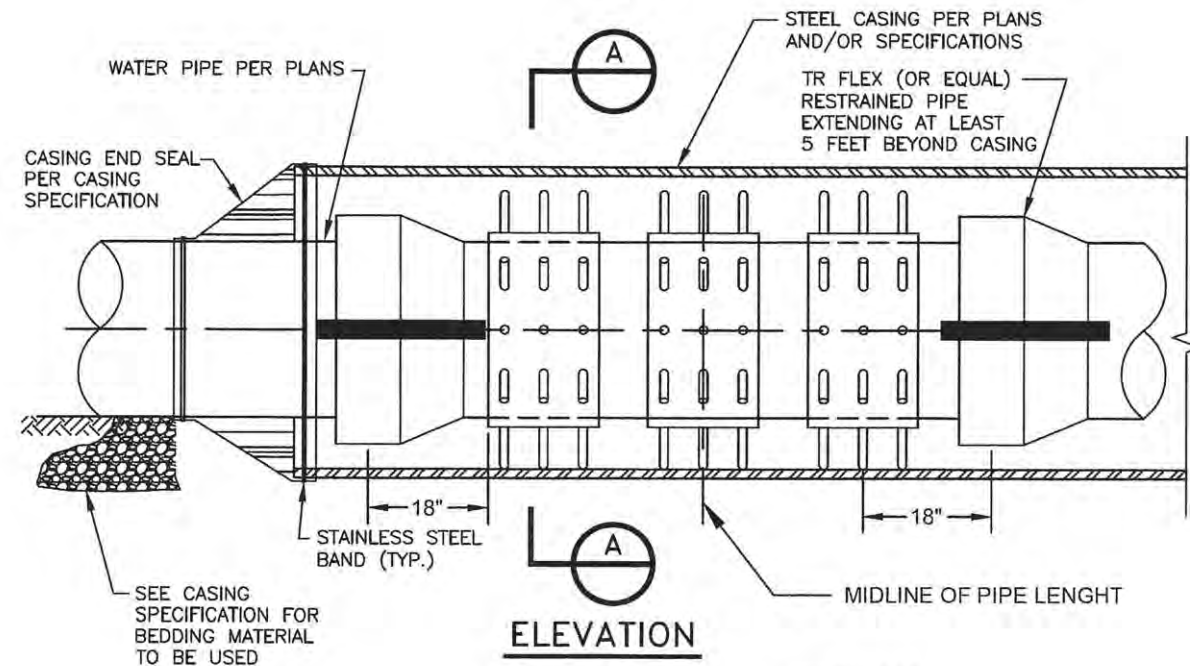
GENERAL NOTES:

- COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM IN NON-FROST AREAS OR ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
- THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
- NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
- THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
- DIMENSION "C" BASED ON MINIMUM BEARING AREA, 18" MINIMUM.
- PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
- ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH APPROVED MATERIAL AFTER CONCRETE HAS SET.
- ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
- ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
- THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
- PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE 3000 PSI CONCRETE MINIMUM.

THRUST BLOCK AT HORIZONTAL BENDS (EXCEEDING 3 FEET IN THICKNESS) DETAIL

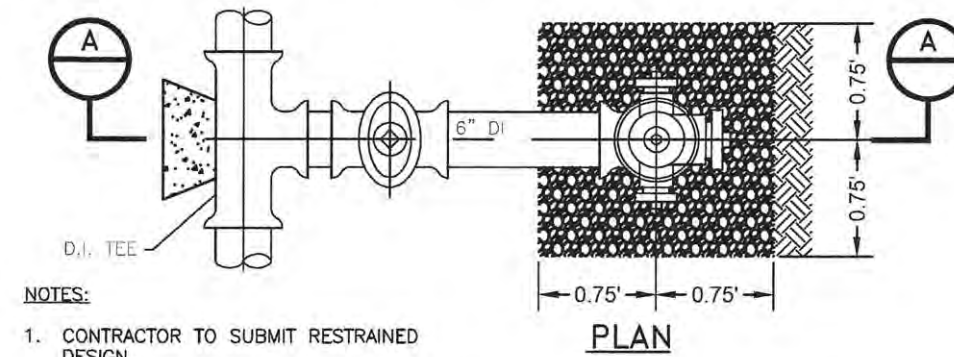
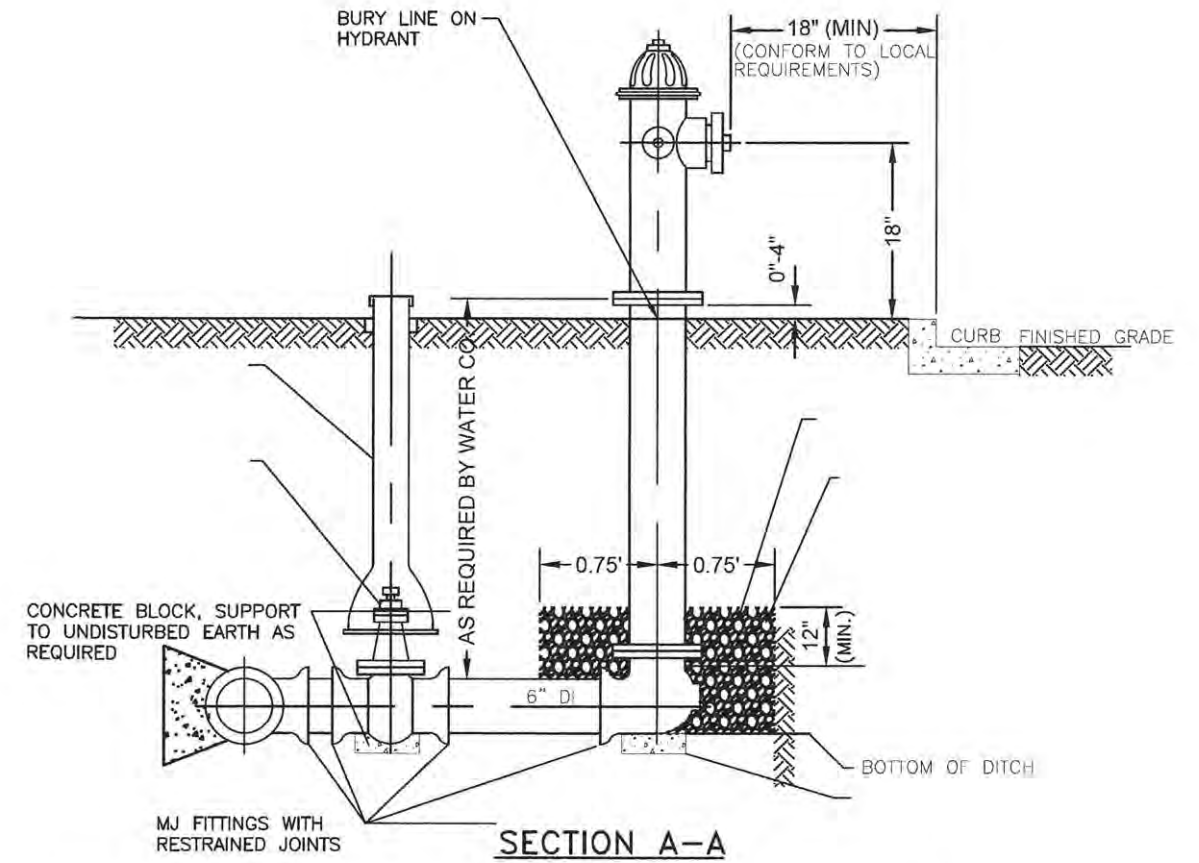
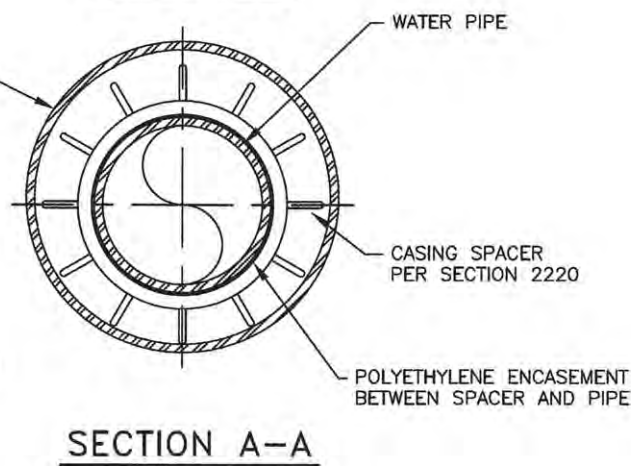
NOTES:

1. THIS STANDARD APPLICABLE FOR 4" DIA. AND LARGER PIPE.



SEE CASING SPECIFICATION FOR BEDDING MATERIAL TO BE USED

NOTE: RESTRAINT OR EQUALS DEFINED AS REQUIRING NO SPECIAL TOOLS OR SHIMS TO REMOVE PIPE FROM CASING IN THE FUTURE



NOTES:

1. CONTRACTOR TO SUBMIT RESTRAINED DESIGN.
2. PAINT HYDRANT TO BURY LINE (AND CAN BE DONE PRIOR TO INSTALLATION)
3. APPLY TOUCH UP PAINT AS REQUIRED AFTER INSTALLATION.
4. OPTION IS TO USE DI MJ SWIVEL TEE TO CONNECT DIRECTLY TO MJ 6" HYDRANT VALVE.
5. DI TEE AND VALVE CAN BE REPLACED WITH A TAPPING SLEEVE AND VALVE.
6. THE USE OF AN ANCHOR TEE IS ACCEPTABLE.

FIRE HYDRANT DETAIL-STANDARD

N.T.S.

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PLOT SCALE = 2.0000 / 1 in.	DRAWN -	REVISED -
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	DATE - 07/13/16	REVISED -

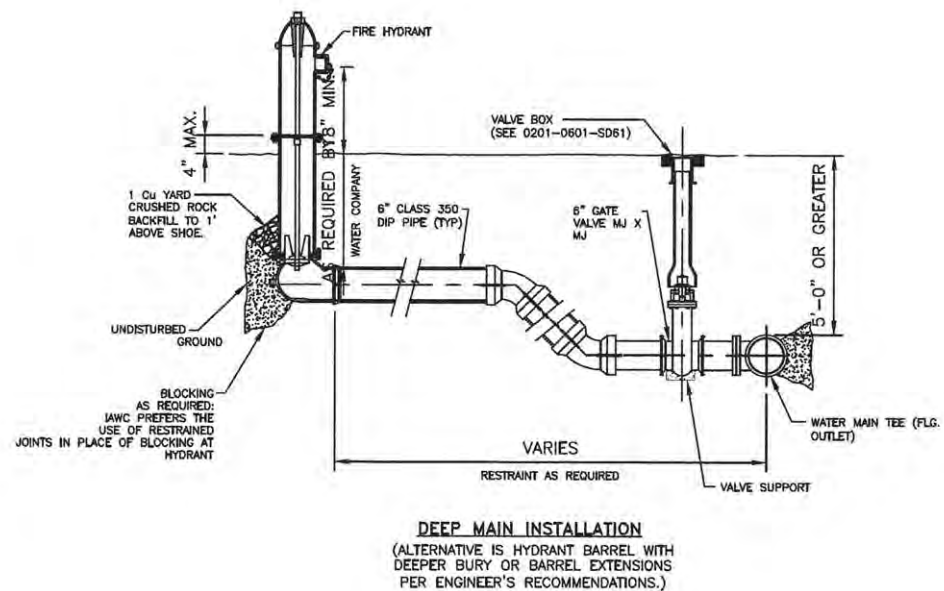
STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

LANCASTER ROAD OVER W LAMARSH CREEK  
WATER MAIN DETAIL

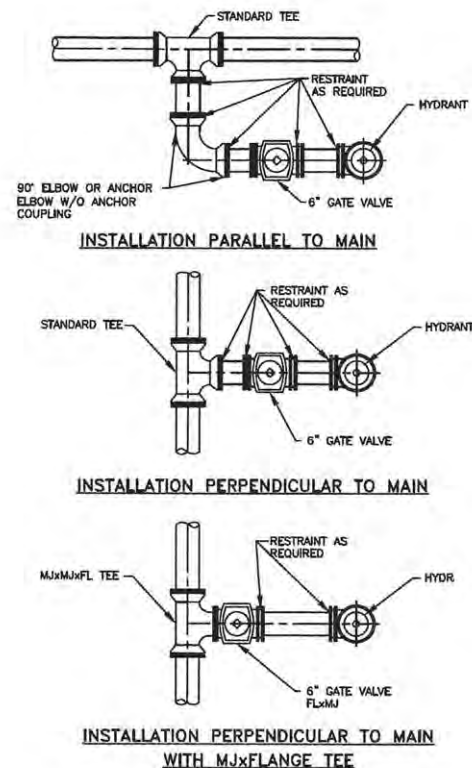
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	76
			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				





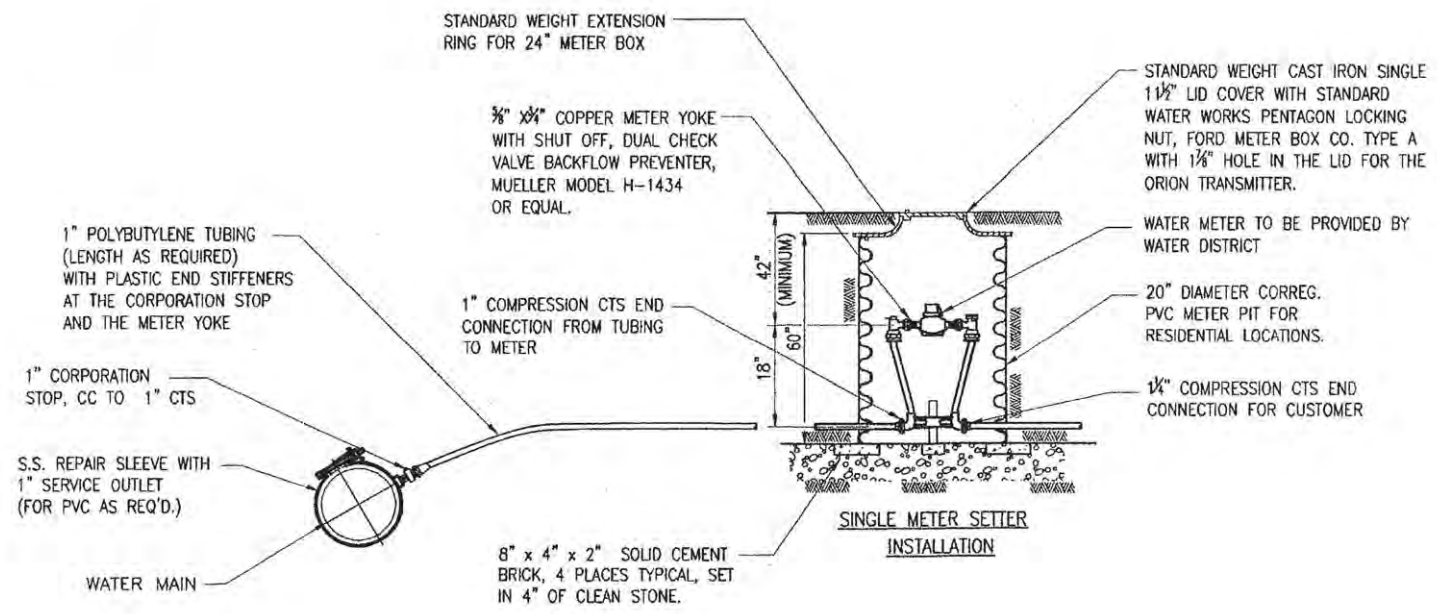
**DEEP MAIN INSTALLATION**  
(ALTERNATIVE IS HYDRANT BARREL WITH DEEPER BURY OR BARREL EXTENSIONS PER ENGINEER'S RECOMMENDATIONS.)



**FIRE HYDRANT LAYOUT - ALTERNATIVES  
DETAIL**

**NOTES:**

1. THESE SCHEMATICS DISPLAY ALTERNATIVE LAYOUTS AND DETAIL OF RESTRAINT HAS NOT BEEN PROVIDED HERE.
2. ALL FITTINGS SHALL BE MJ FOR HYDRANT ALTERNATIVES SHOWN.



**WATER SERVICE AND METER DETAIL**

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USER NAME = brenner	DESIGNED -	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 7/13/2016	CHECKED -	REVISED -
	DATE - 07/13/16	REVISED -

STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT

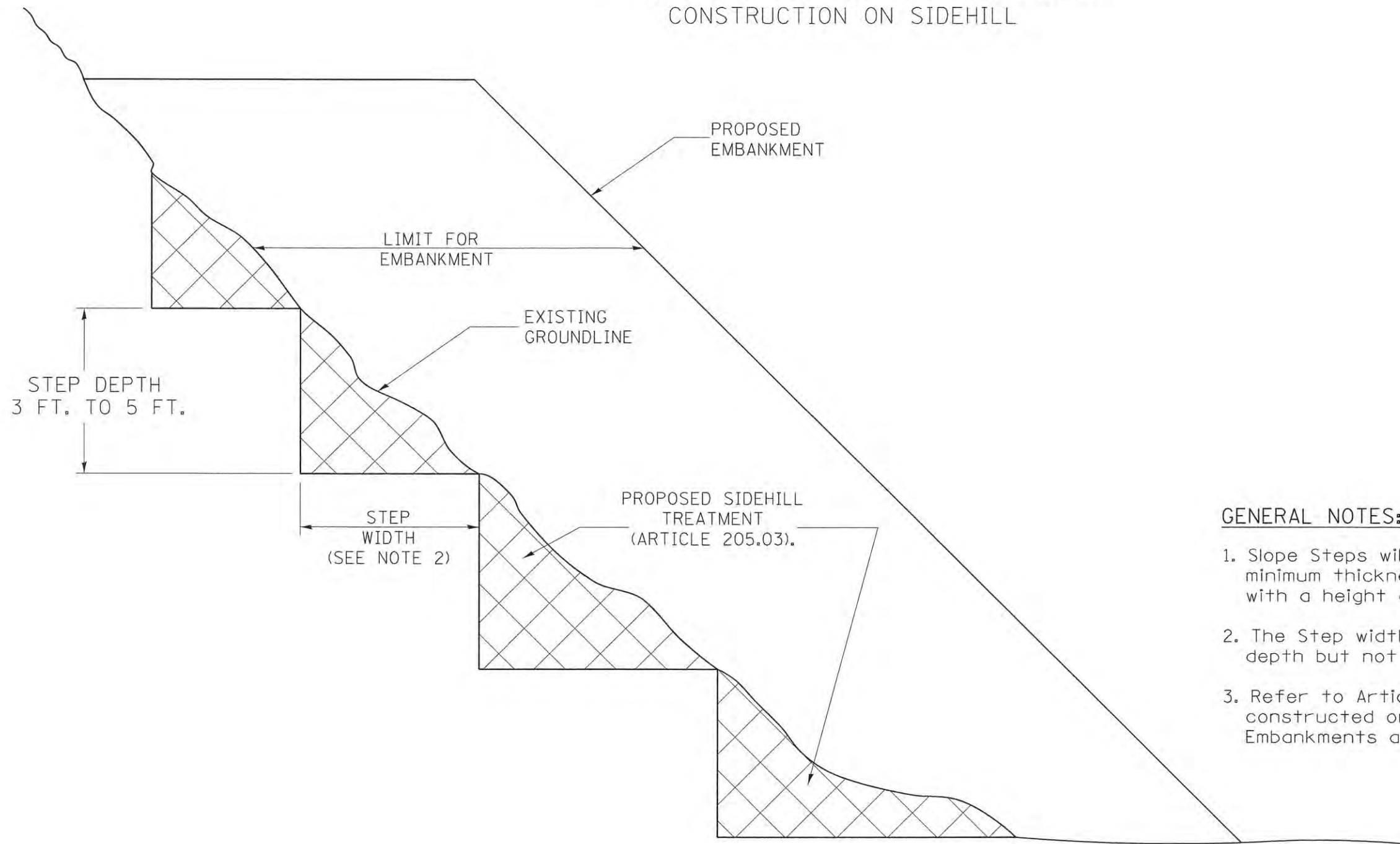
LANCASTER ROAD OVER W LAMARSH CREEK  
WATER MAIN DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	77
CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				

# SLOPE STEPS DETAIL

## TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



### GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

### REPLACEMENT MATERIAL:



STANDARD EMBANKMENT  
(IN ACCORDANCE WITH  
205 OF THE STANDARD SPECIFICATION).

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**SLOPE STEPS DETAIL**

CADD STD. 205001-D4

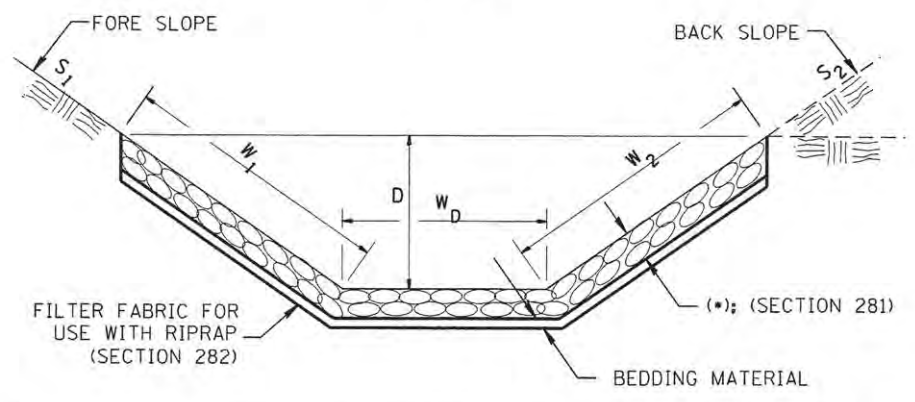
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	78
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 89676	





Designer NOTES:  
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.  
 2. (\*) Designer to specify pay item including material, quality, and gradation.  
 3. Include District Special Provision if needed.

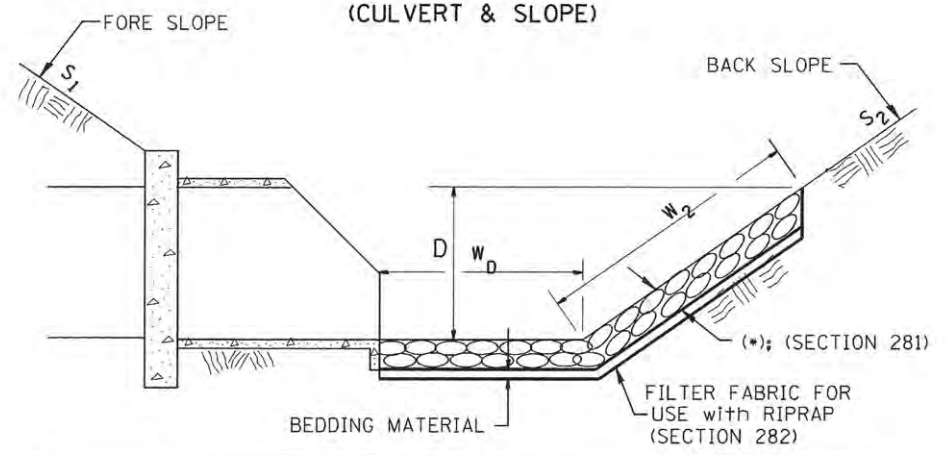
**CASE 1  
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
148+10, 84.5' RT	20	10	23	15.3
148+43, 48' LT	VARIES	VARIES	117	78.0
153+79, 53' LT	6	21	20.1	13.4
154+10, 56' RT	20	10	45.3	30.2
155+66, 103' LT	12	50	212.0	141.3
154+10, 56' RT	8	62	210.8	140.5
TOTAL				

(1) WIDTH =  $W_1 + W_2 + W_D$

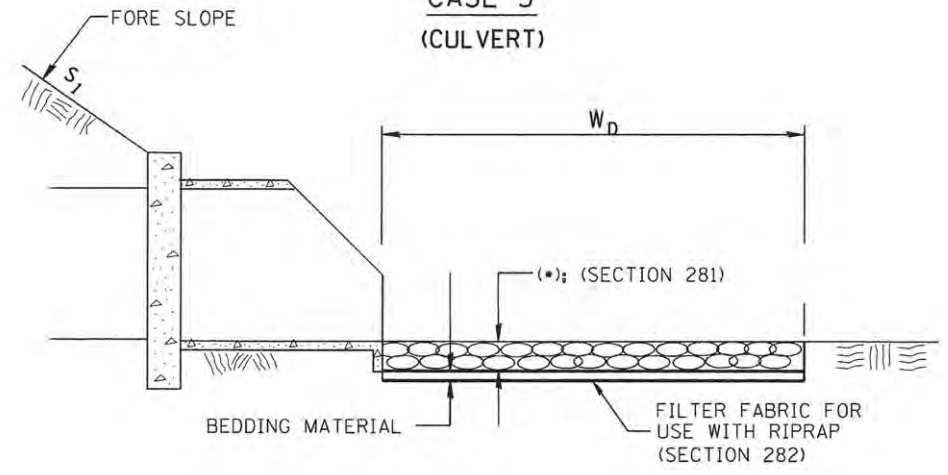
**CASE 2  
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_2 + W_D$

**CASE 3  
(CULVERT)**

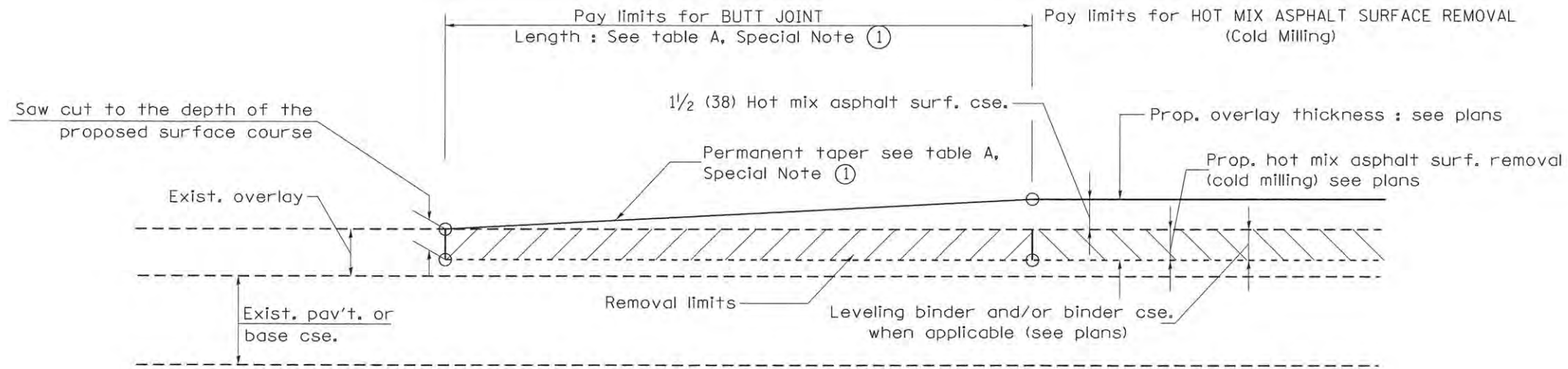


(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
143+48.11, 85' LT	20	10	33.3	22.2
148+16.65, 43' LT	VARIES	VARIES	33.0	22.0
TOTAL				

(1) WIDTH =  $W_D$

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).  
 All dimensions are in inches (millimeters) unless otherwise noted.





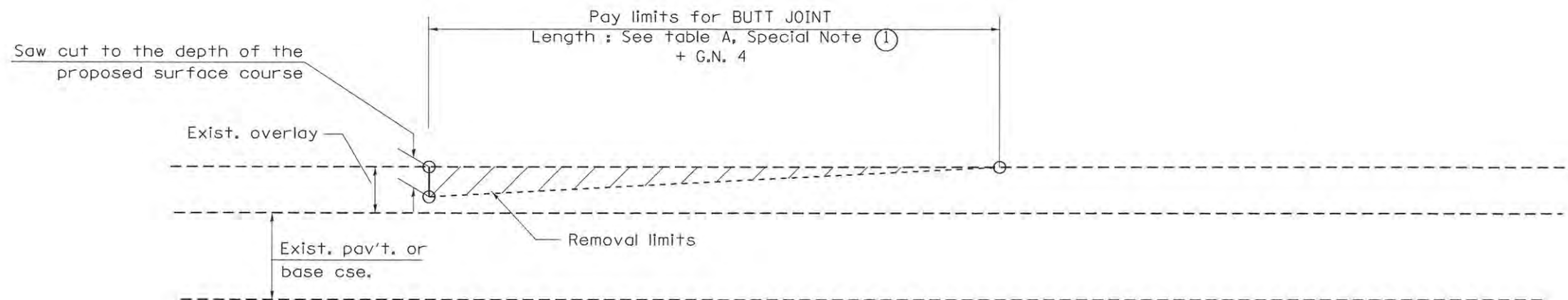
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A  
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:30	1:30

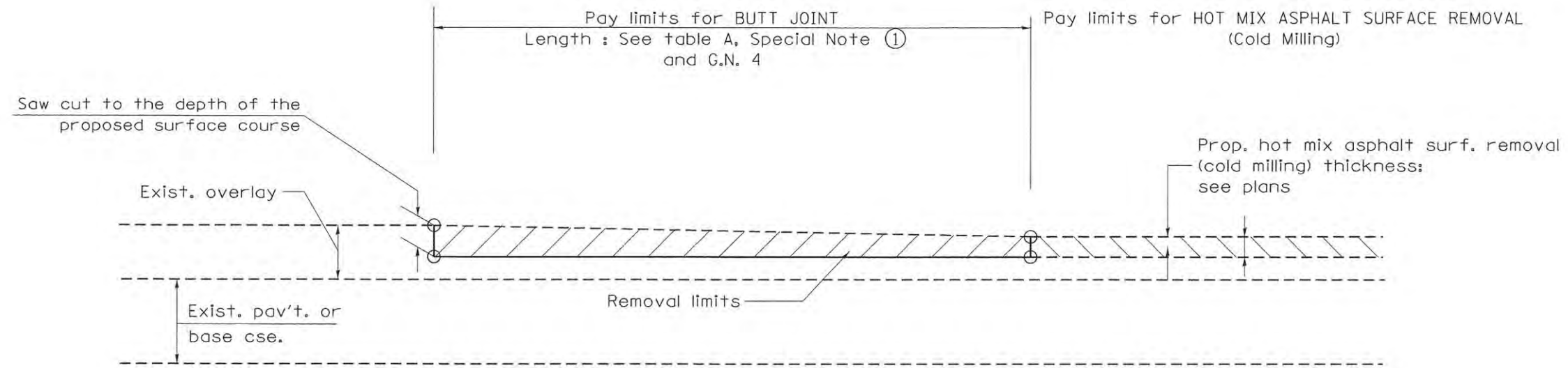
**GENERAL NOTES**

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.

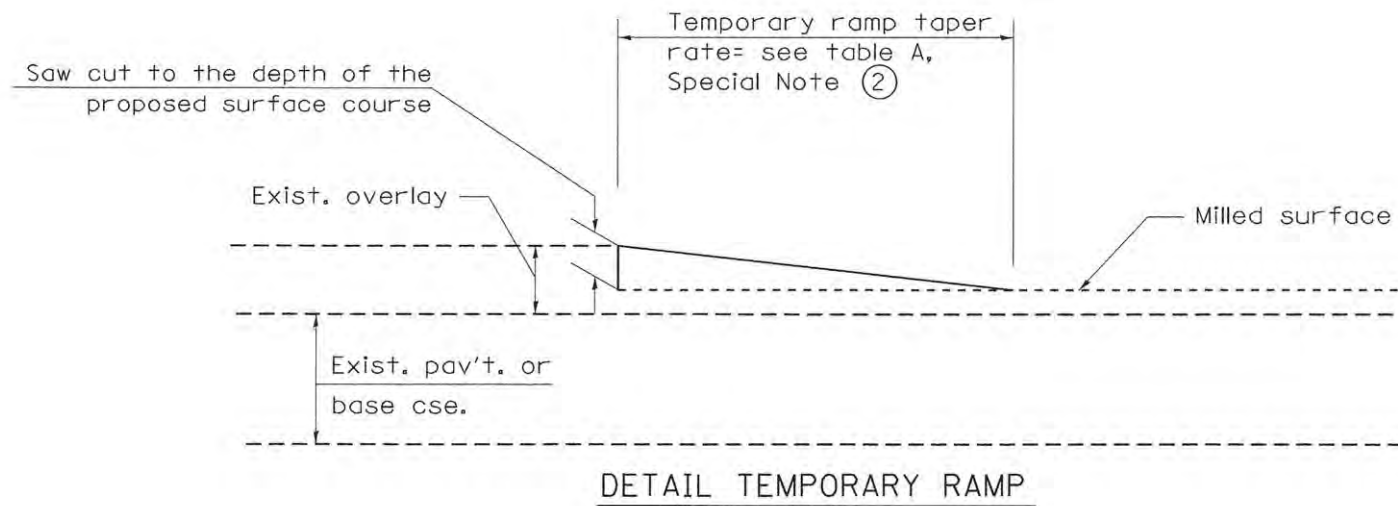


**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

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



CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER



DETAIL TEMPORARY RAMP

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

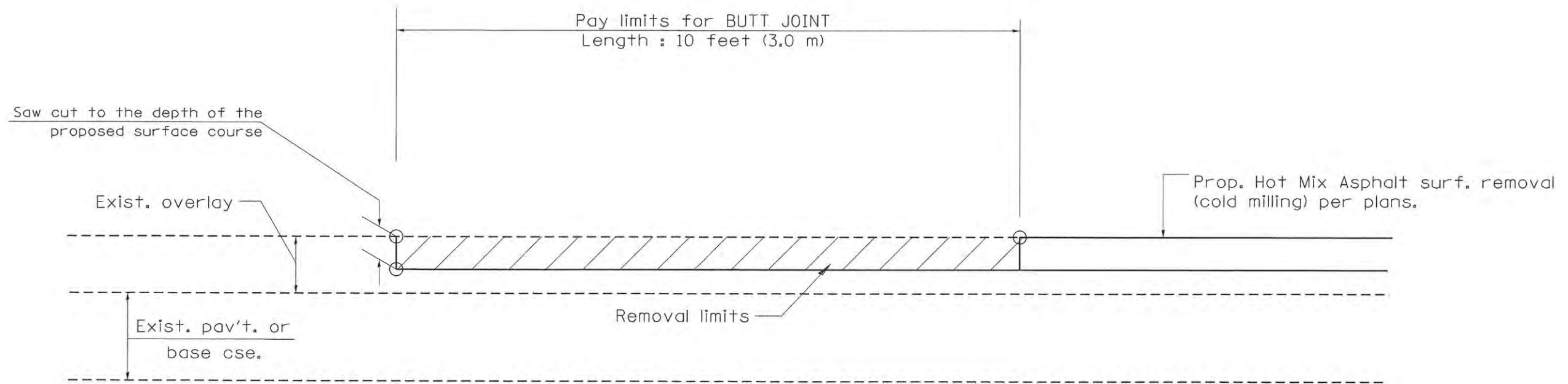
**BUTT JOINTS**

NOT TO SCALE

SHT. 2 OF 3  
CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	82
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	





CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH  
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER

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

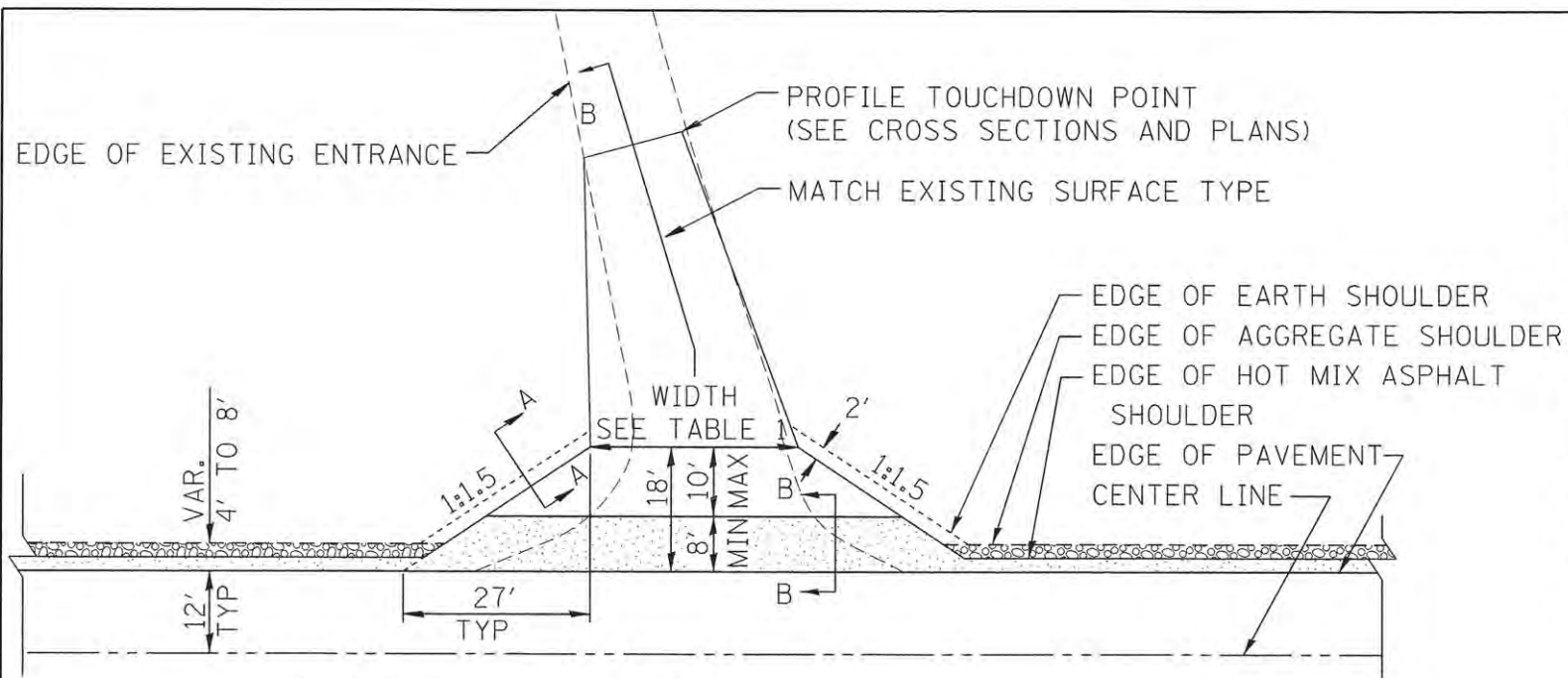
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 3 OF 3  
 CADD STD. 406101-D4

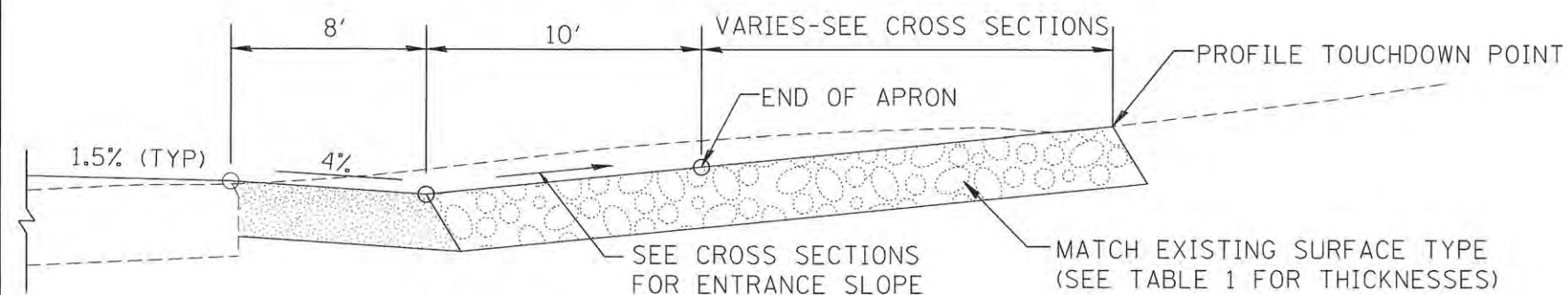
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	13-00049-01-BR	PEORIA	151	83
FED. ROAD DIST. NO.			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				



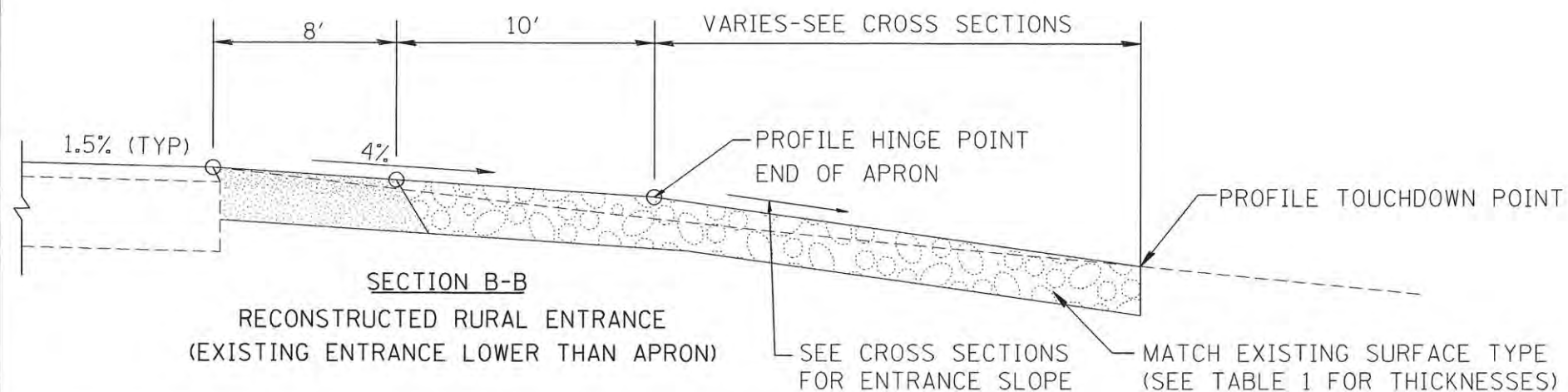
HOT MIX ASPHALT SHOULDER, 8"  
 AGGREGATE SHOULDER, TYPE B, 6"

**PLAN**

**COMMERCIAL / FARM-RELATED ENTRANCE**

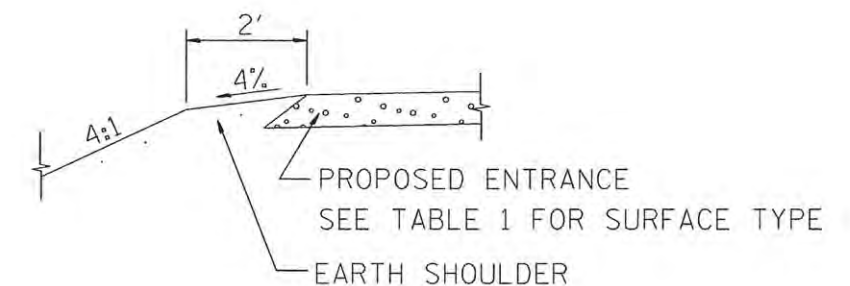


**SECTION B-B**  
 RECONSTRUCTED RURAL ENTRANCE  
 (EXISTING ENTRANCE HIGHER THAN APRON)



**SECTION B-B**  
 RECONSTRUCTED RURAL ENTRANCE  
 (EXISTING ENTRANCE LOWER THAN APRON)

TABLE 1								
RURAL ENTRANCE DESIGN								
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL			
					1-WAY OPERATION		2-WAY OPERATION	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.	14'(4.3m) Min.	24'(7.2m) Max.	24'(7.2m) Min.	35'(10.7m) Max.
FLARE	1:1.5							
MAX. GRADE (G)	12%		12%		10%			
SURFACE TYPE								
INCIDENTAL HOT MIX ASPHALT SURFACING	6"		—		8"			
AGGREGATE SURFACE COURSE	6"		8"		—			
PCC DRIVEWAY PAVEMENT	6"		—		7"			



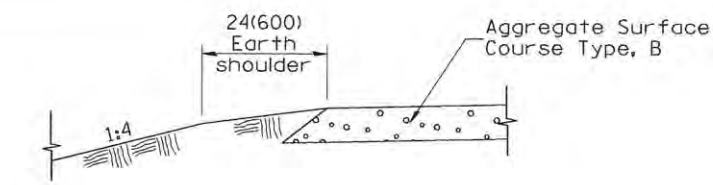
**SECTION A-A**  
 SHOULDER TREATMENT FOR RURAL ENTRANCES

**GENERAL NOTES**

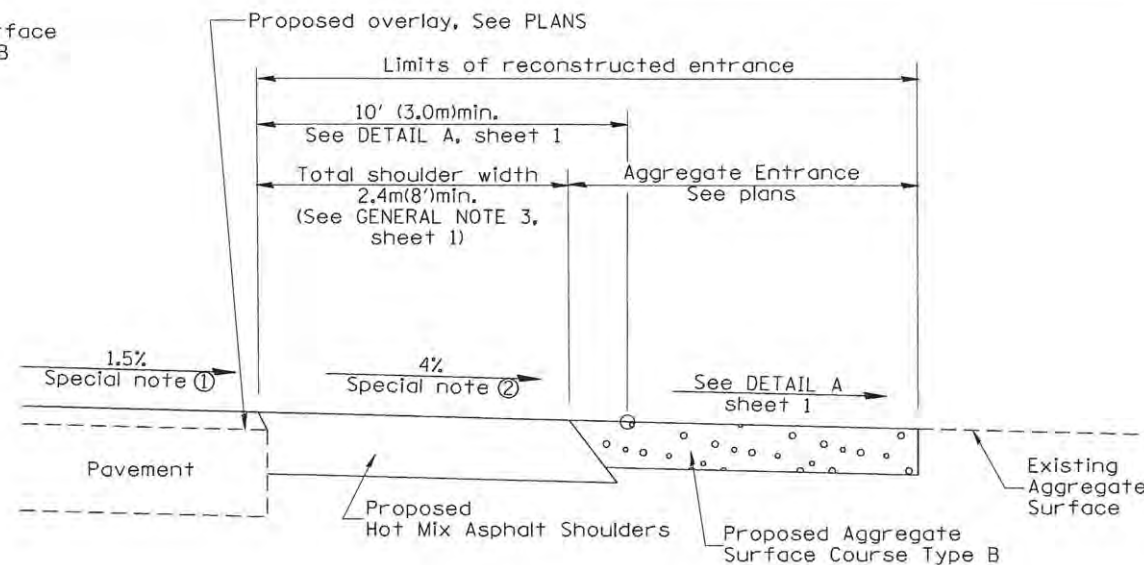
- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

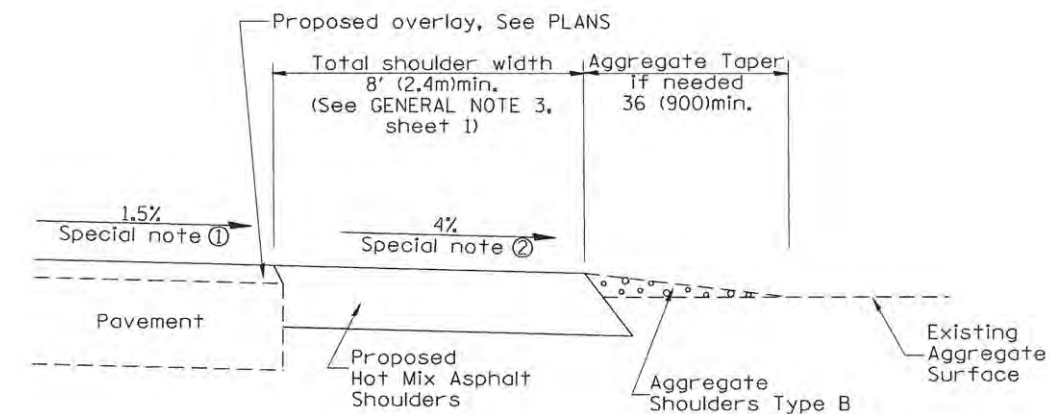




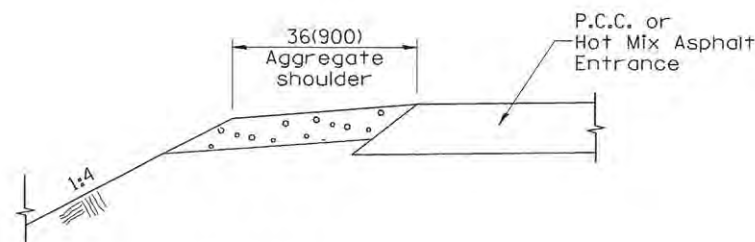
**SECTION A-A**  
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



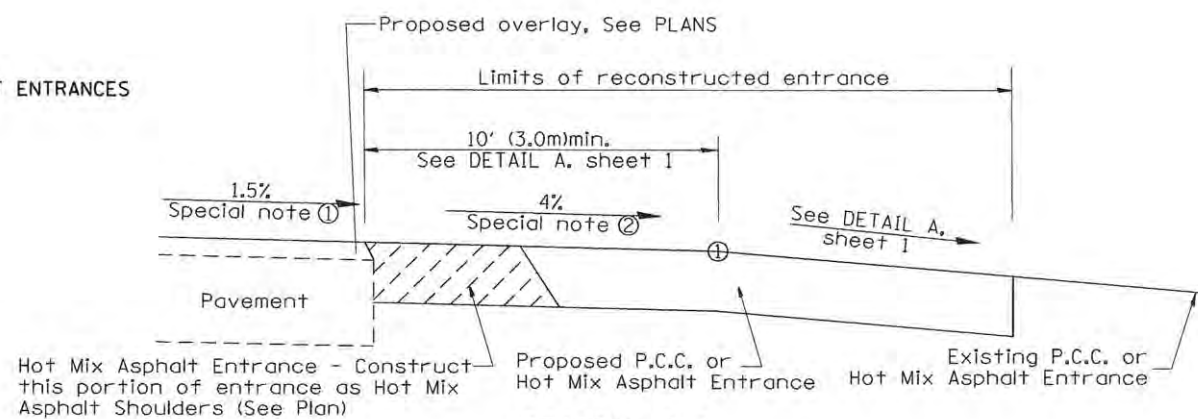
**SECTION B-B**  
RECONSTRUCTED AGGREGATE ENTRANCE



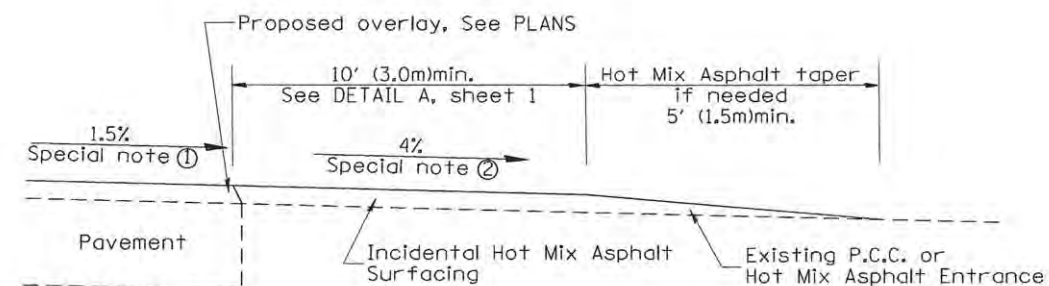
**SECTION B-B**  
EXISTING AGGREGATE ENTRANCE



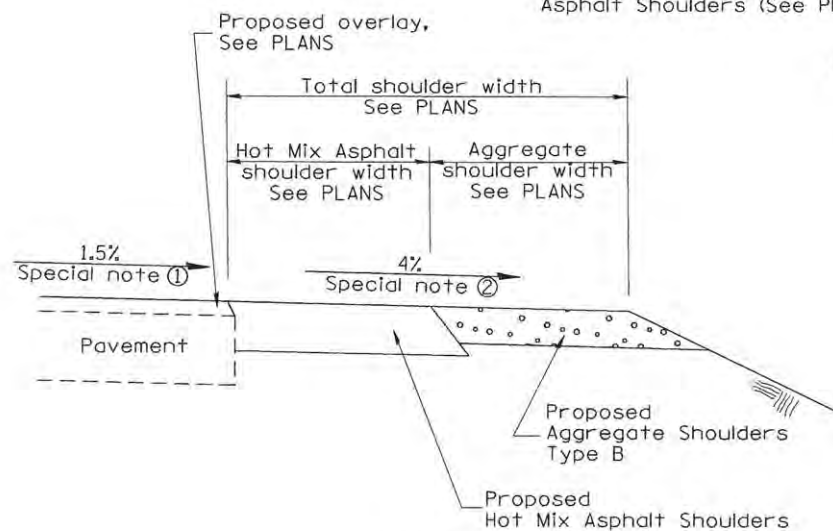
**SECTION C-C**  
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



**SECTION D-D**  
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



**SECTION D-D**  
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



**SECTION E-E**  
MAINLINE SHOULDER TREATMENT

**SPECIAL NOTES**

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12" (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

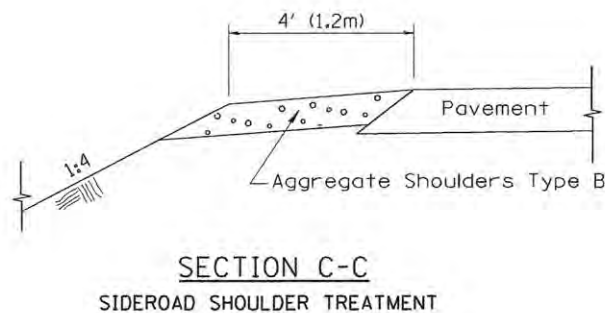
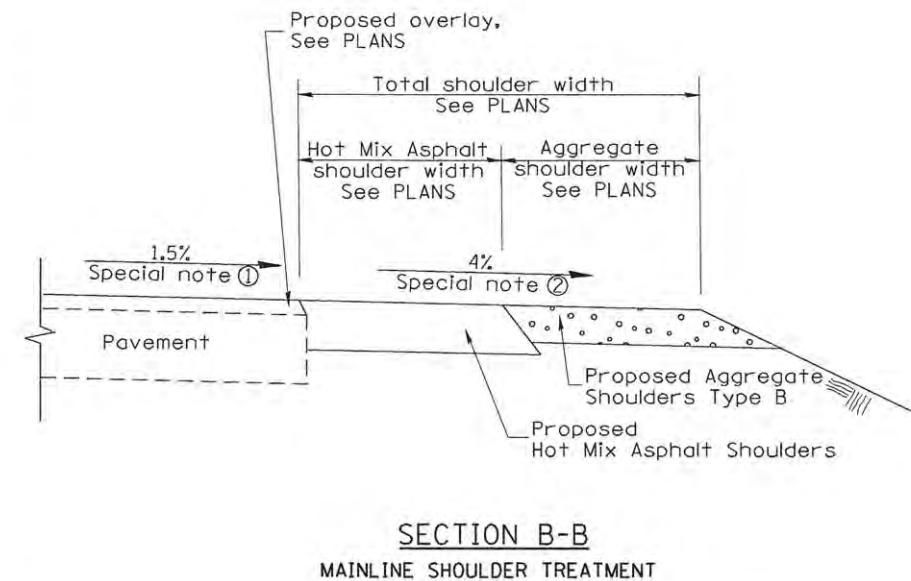
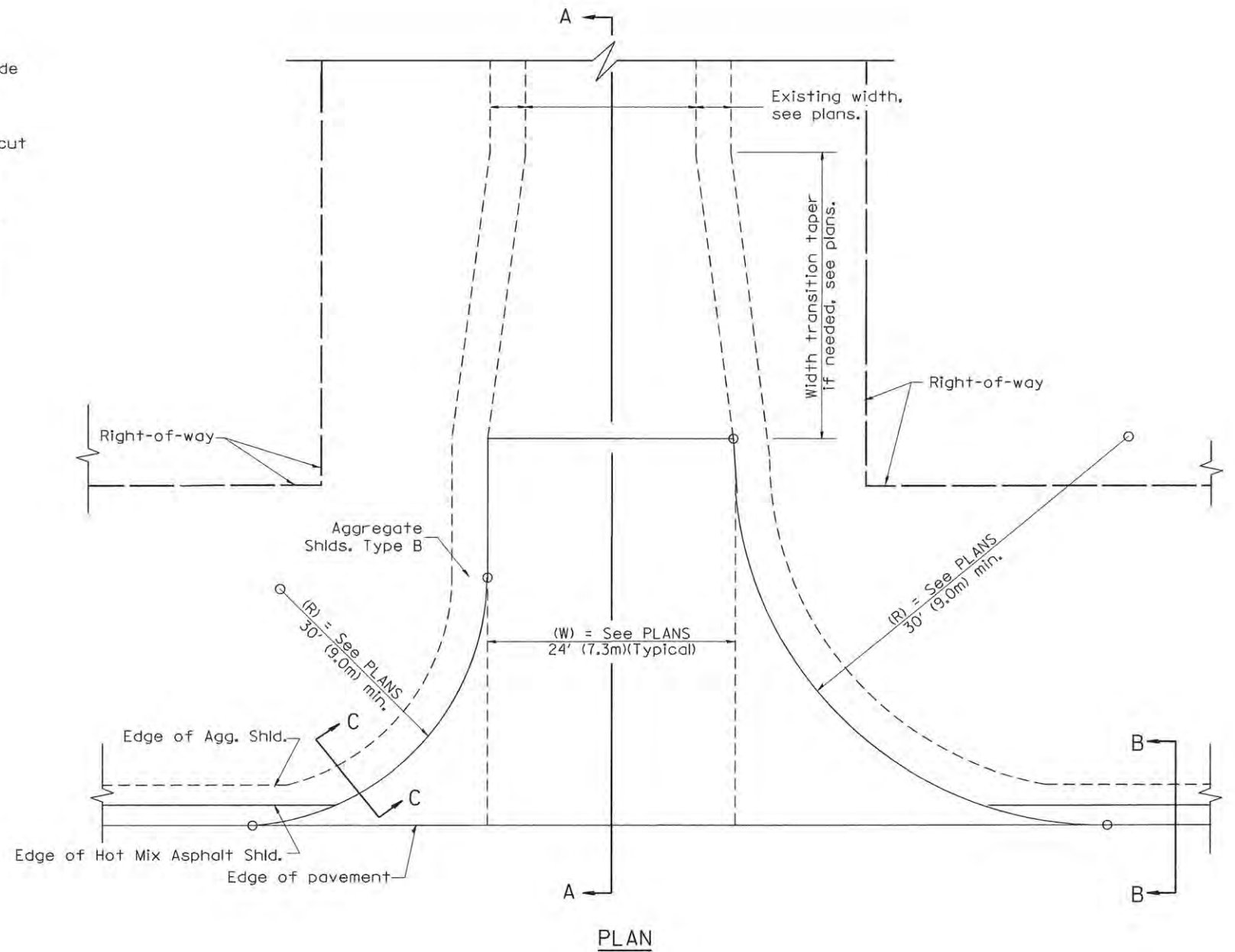
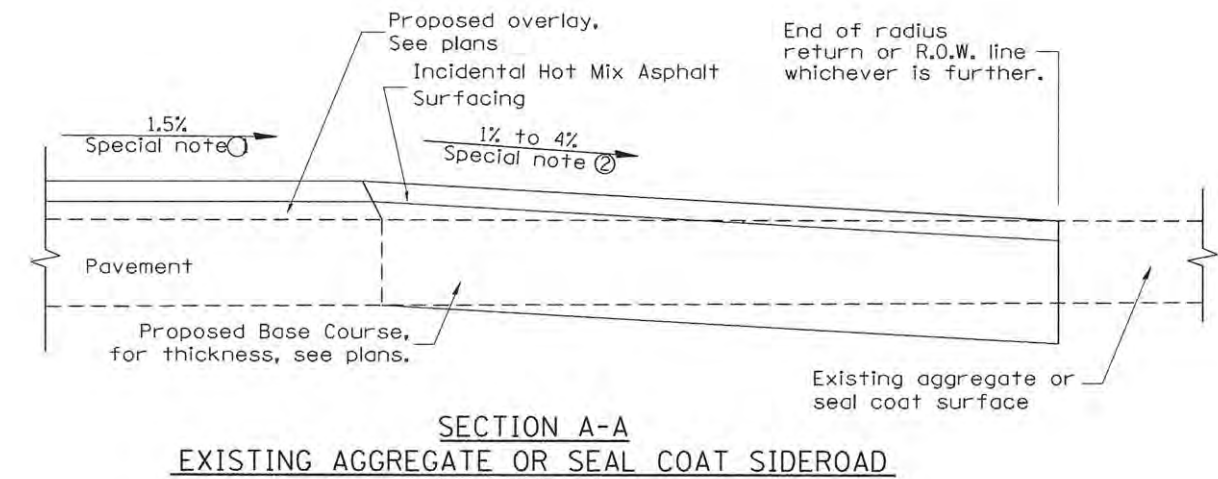
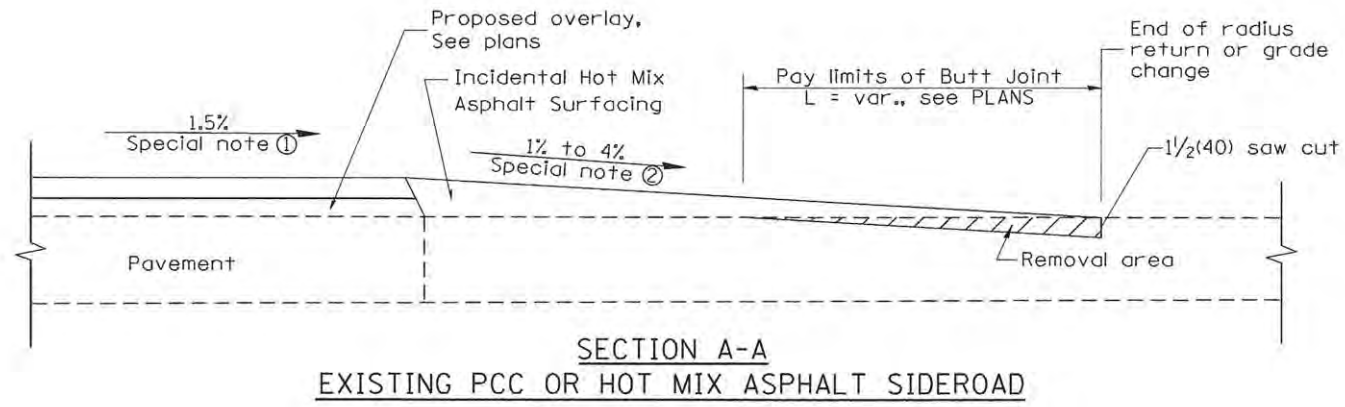
**RURAL ENTRANCES FOR "3R" PROJECTS**

NOT TO SCALE

SHT. 2 OF 2  
CADD STD. 406301-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	85
CONTRACT NO. 89676				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:  
1. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL.



**SPECIAL NOTES**

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on superelevated horizontal curves.
- ② The sideroad profile should drain away from the mainline at 1% to 4% for 50' (15.0m) to 100' (30.0m), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline superelevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

All dimensions are in Inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-105.02, NEW REVISION BOX	T.P.		
07-01-97	REVISE DESIGNER NOTES	J.A.		
09-15-05	REVISED DESIGNER NOTE	M.M.A.		
10-16-06	REVISED TO 2007 SPEC.	M.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RURAL SIDEROADS FOR "3R" PROJECTS**

NOT TO SCALE

CADD STD. 406401-D4

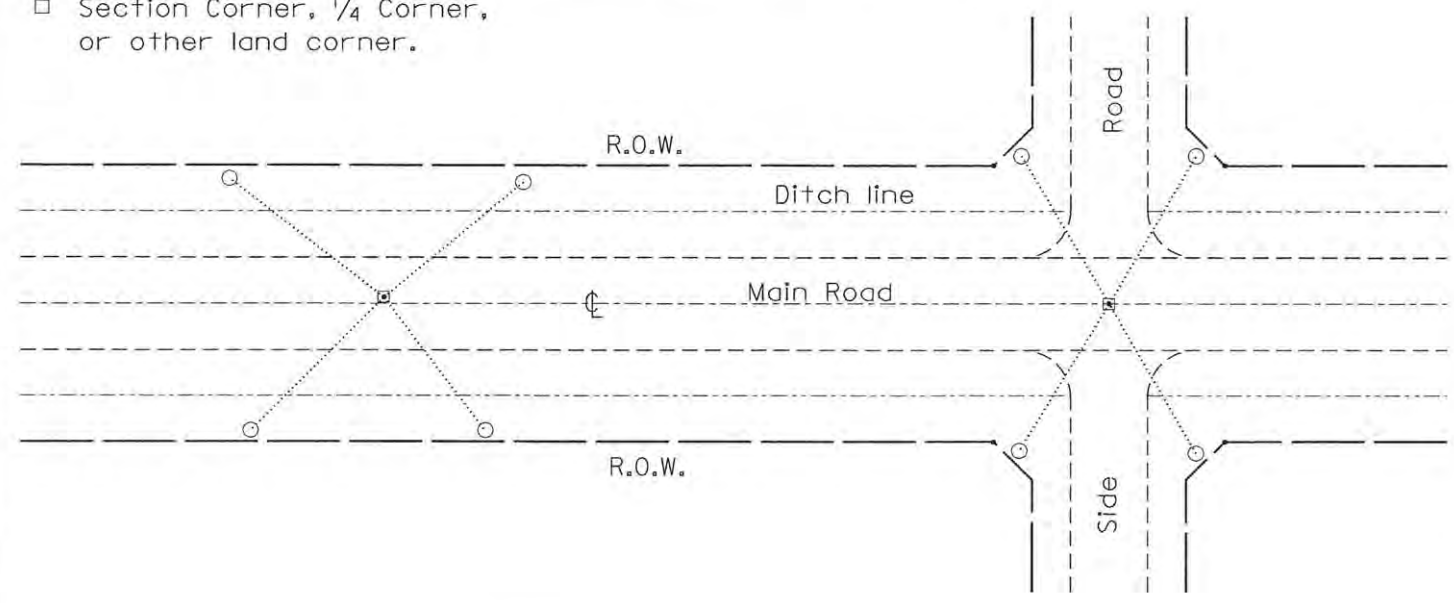
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	86
CONTRACT NO.			89676	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DESIGNER NOTES:  
 1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE I MARKER ON A STRUCTURE.  
 2. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD  
 3. PERMANENT SURVEY MARKERS SHALL BE PLACED TO PERPETUATE THE SURVEY LINES OF DIVIDED HIGHWAYS AND THE CENTERLINE OF ALL OTHERS WHERE THESE LINES HAVE BEEN ESTABLISHED BY SURVEY.  
 4. PERMANENT SURVEY MARKERS SHALL BE PLACED AT ALL LAND SECTION CORNERS WITHIN THE STATE R.O.W. WHERE THE MONUMENTS HAVE BEEN FOUND OR RELOCATED BY SURVEY.

**PERMANENT SURVEY TIES**

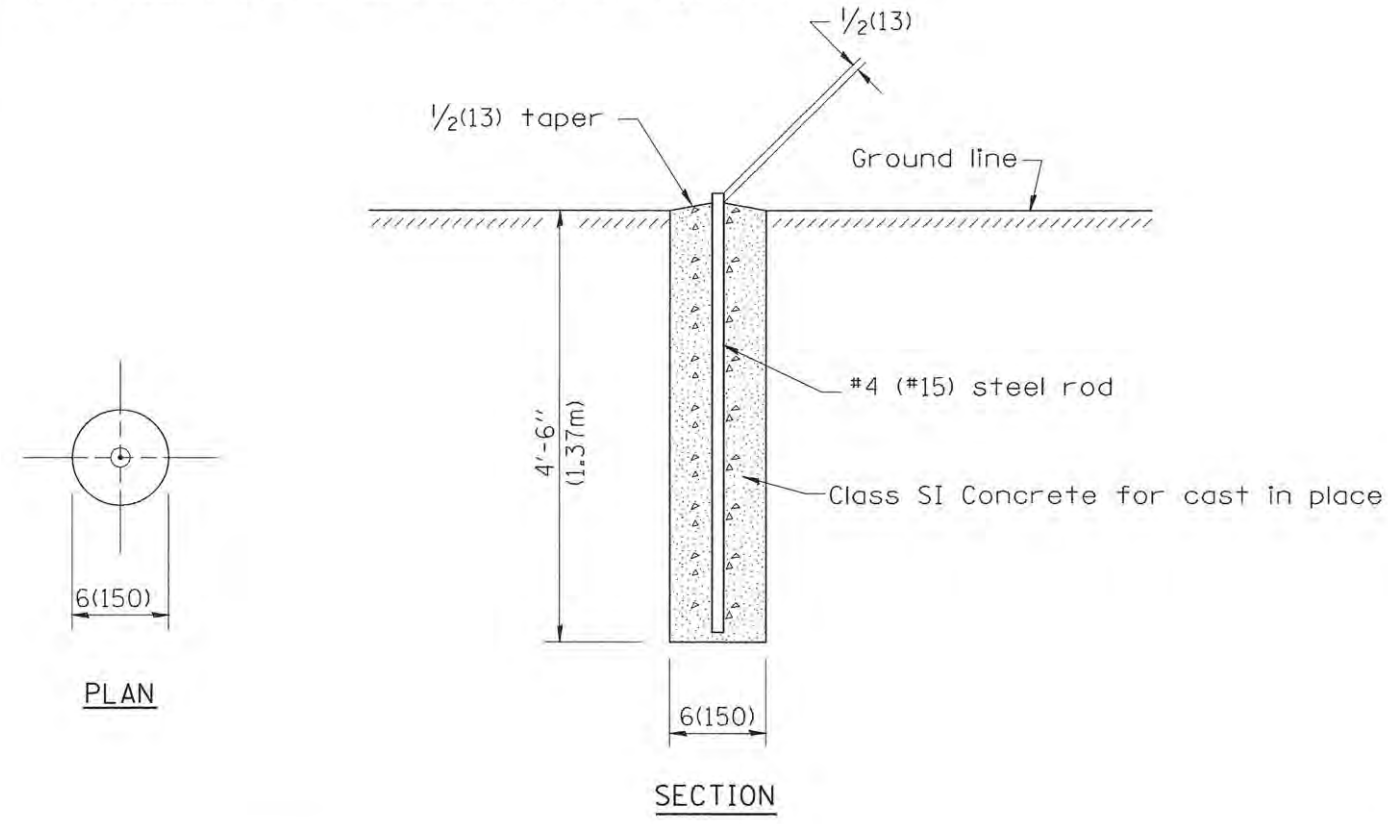
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



**TYPICAL APPLICATION**

**GENERAL NOTES**

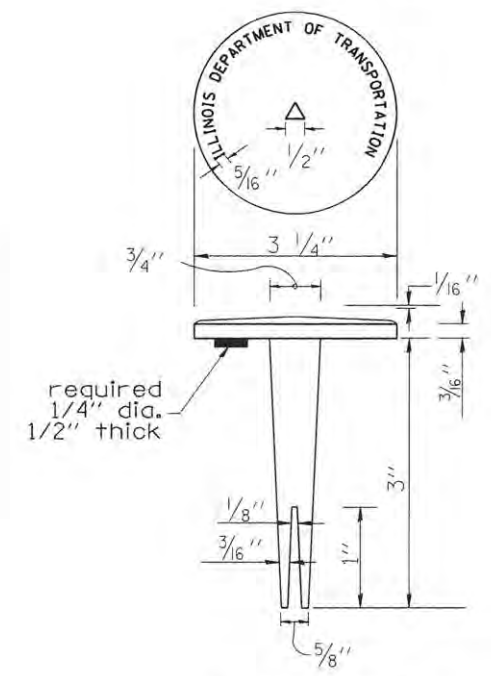
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



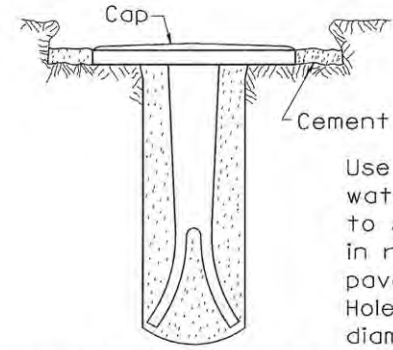
**PLAN**

**SECTION**

**PERMANENT SURVEY MARKERS**

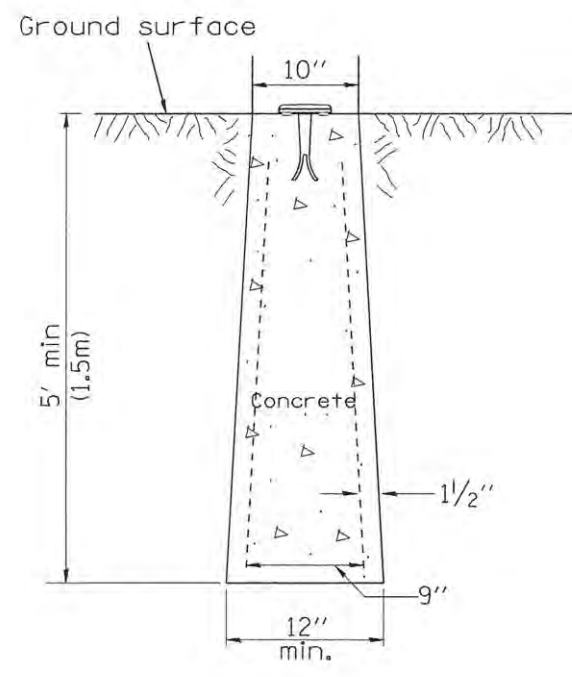


**BRASS TABLET**



Tablet constructed in rock ledge or concrete.

**TYPE I**



**TYPE II  
CAST-IN-PLACE MARKER**

**GENERAL NOTES**

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.L.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

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

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.	08-21-13	CHANGED MIN. DIAMETER	R.D.
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.	08-25-15	REVISED MATERIAL	R.D.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**PERMANENT SURVEY TIE &  
PERMANENT SURVEY MARKERS TY.I - TY.II**

CADD STD. 667101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	87
CONTRACT NO.			89676	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Existing Structure: S.N. 072-3061, originally built in 1948 as FAS 389, Section 49-B-1. Existing bridge is a 3-span continuous steel girder bridge with concrete deck, 100'-6" Back to Back of Abutments. Open abutments on piles and steel pile bents.

Benchmark - Elev. 530.69 Chisled Square in NW Wingwall Structure to be removed and replaced with road closure.

No Salvage.



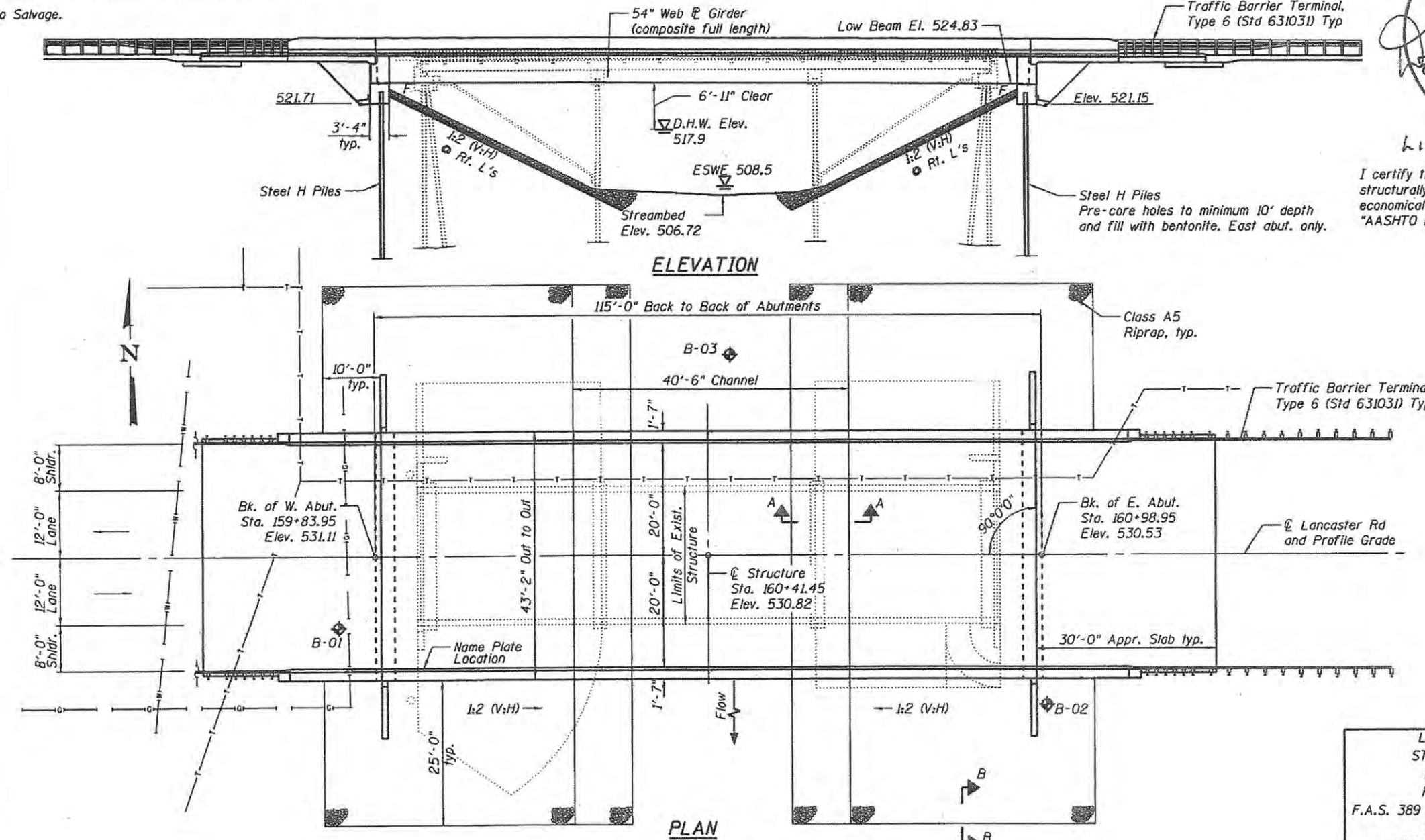
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style structure and complies with the requirements of the current "AASHTO LRFD Specifications".

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Notes
- 3-4 Top of Slab Elevations
- 5-6 Top of Approach Slab Elevations
- 7 Superstructure
- 8 Superstructure Details
- 9 Integral Abutment Diaphragm Details
- 10-11 Bridge Approach Slab Details
- 12 Framing Plan and Girder Elevation
- 13 Structural Steel Details
- 14 West Abutment
- 15 East Abutment
- 16 Abutment Details
- 17 HP Pile Details
- 18-19 Soil Borings

**TOTAL BILL OF MATERIAL**

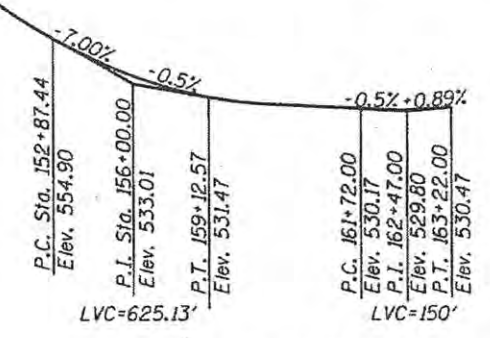
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		1134	1134
Removal of Existing Structures	Each			1
Slapewall Removal	Sq. Yd.		460	460
Structure Excavation	Cu. Yd.		296	296
Concrete Structures	Cu. Yd.		80	80
Concrete Superstructure	Cu. Yd.	207		207
Bridge Deck Grooving	Sq. Yd.	730		730
Protective Coat	Sq. Yd.	892		892
Concrete Superstructure (Approach Slab)	Cu. Yd.	123		123
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each			1,278
Reinforcement Bars, Epoxy Coated	Pound	71,740	13,650	85,390
Furnishing Steel Piles HP 14 x 102	Foot		430	430
Driving Piles	Foot		430	430
Test Pile Steel HP 14 x 102	Each		2	2
Name Plates	Each	1		1
Anchor Bolt 1"	Each	24		24
Geocomposite Wall Drain	Sq. Yd.		75	75
Granular Backfill for Structures	Cu. Yd.		193	193
Pipe Underdrains for Structures 4"	Foot		148	148
Precored Pile Locations Filled with Bentonite	Each		6	6



LAMARSH CREEK  
STATION 160+41.45  
BUILT 2011 BY  
PEORIA COUNTY  
F.A.S. 389 SECTION 13-00049-01-BR  
LOADING HL-93  
STRUCTURE NO. 072-3153

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**NAME PLATE**  
See Std. 515001



**PROFILE GRADE**  
Along Lancaster Road

**DESIGN SCOUR ELEVATION TABLE**

Event/Limit	Design Scour Elevations (ft.)		Item
State	W. Abut.	E. Abut.	113
0100	521.71	521.15	8
0200	521.71	521.15	8
Design	521.71	521.15	8
Check	521.71	521.15	8

**WATERWAY INFORMATION**

Drainage Area = 15.1 sq. mi. Prop. Low Grade Elev. 530.05 @ Sta. 160+20.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	2900	385	477	516.3	0.6	0.3	516.9	516.6
Base	30	4200	480	600	517.9	0.5	0.1	518.4	518.0
Overtopping	100	5530	577	724	519.4	0.4	0.0	519.8	519.4
Max. Calc.	500	7580	701	886	521.2	0.8	0.0	522.0	521.2

**SEISMIC DATA**

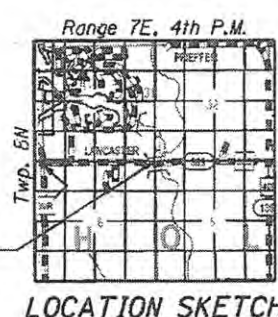
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>01</sub>) = 0.077  
Design Spectral Acceleration at 0.2 sec. (S<sub>05</sub>) = 0.13  
Soil Site Class = C

**DESIGN STRESSES**

**FIELD UNITS**  
f'<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinforcement)  
f<sub>y</sub> = 50,000 psi (M270 Grade 50W)

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition w/2015 Interims



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
**LANCASTER ROAD OVER**  
**W BRANCH OF LAMARSH CREEK**  
**FAS 389-SECTION 13-00049-01-BR**  
**PEORIA COUNTY**  
**STATION 160+41.45**  
**STRUCTURE NO. 072-3153**



**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts  $\frac{3}{4}$ -in.  $\phi$ , holes  $\frac{5}{16}$ -in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 138,410 lbs

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

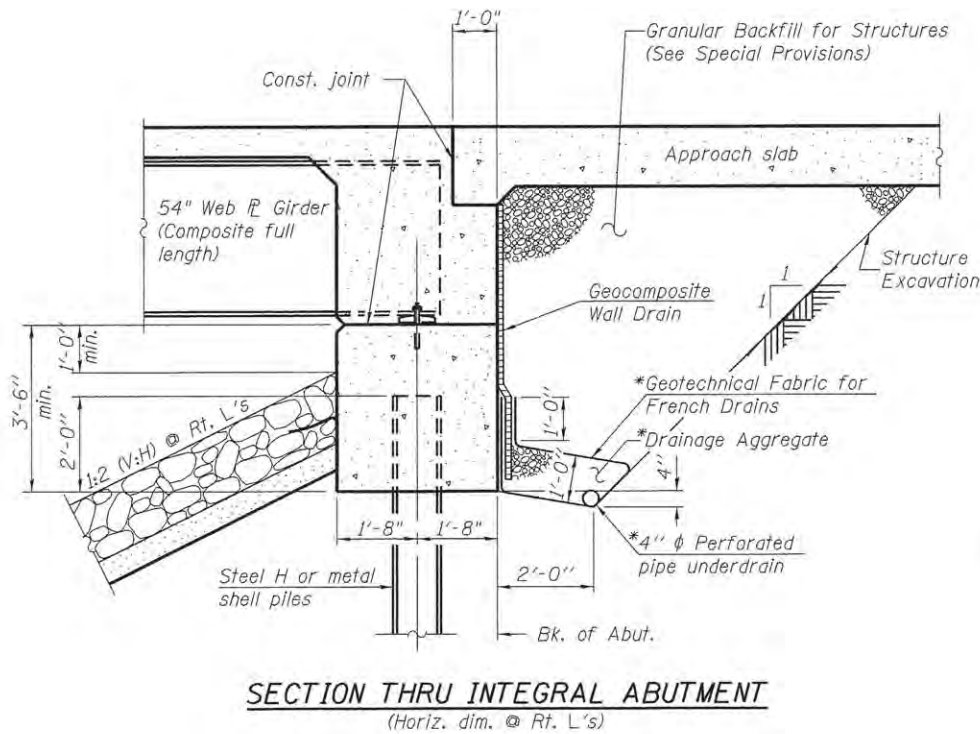
Reinforcement bars designated (E) shall be epoxy coated.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

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

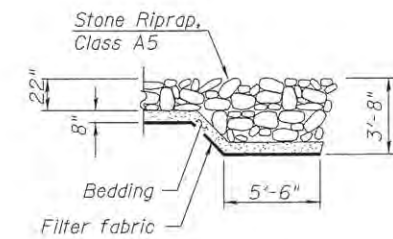
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.



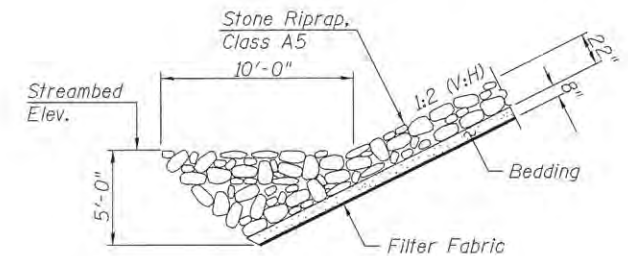
**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\* Included in the Cost of Pipe Underdrains for Structures 4"

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 Standards 601101).



**SECTION B-B**



**SECTION A-A**

T:\Projects\14-271 Peoria County Lancaster Rd\Design\Structural\CADD Sheets\0414274-shr002-GeneralNotes.dgn 7/11/2016 5:55:18 PM



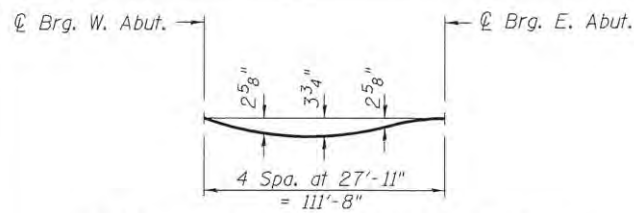
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PLOT DATE = 7/11/2016	CHECKED - 07/13/16	REVISED -

**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**GENERAL NOTES  
STRUCTURE NO. 072-3153**

SHEET 2 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	89
CONTRACT NO. 89676			ILLINOIS FED. AID PROJECT	



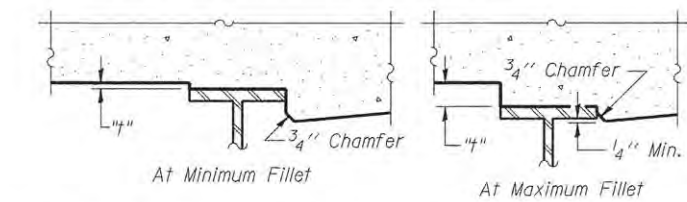
**DEAD LOAD DEFLECTION DIAGRAM**

(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.

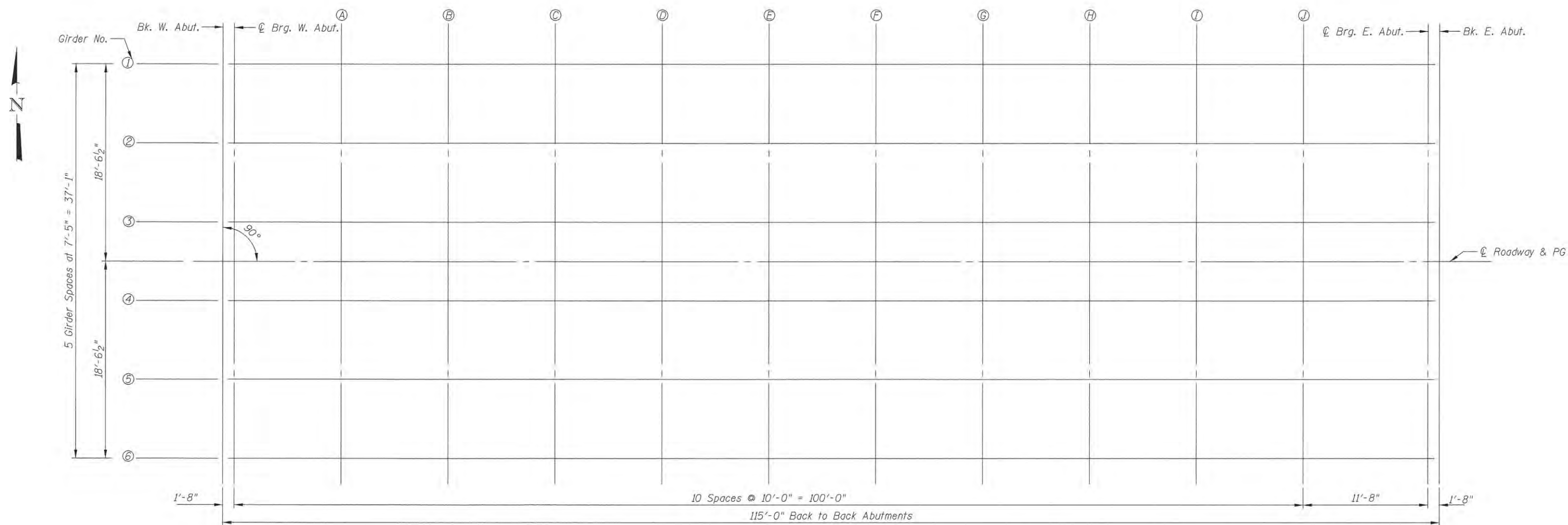
**GIRDER 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of West Abut.	159+83.95	-18.55	530.79	530.79
⊕ Brg. W. Abut.	159+85.62	-18.55	530.78	530.78
A	159+95.62	-18.55	530.73	530.82
B	160+05.62	-18.55	530.68	530.84
C	160+15.62	-18.55	530.63	530.86
D	160+25.62	-18.55	530.58	530.85
E	160+35.62	-18.55	530.53	530.83
F	160+45.62	-18.55	530.48	530.78
G	160+55.62	-18.55	530.43	530.71
H	160+65.62	-18.55	530.38	530.62
I	160+75.62	-18.55	530.33	530.50
J	160+85.62	-18.55	530.28	530.38
⊕ Brg. E. Abut.	160+97.28	-18.55	530.22	530.22
Back of East Abut.	160+98.95	-18.55	530.21	530.21



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 below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



**PLAN**

T:\Projects\14-274 Peoria County Lincaster Rd\Design\Structural\CADD Sheets\14-274-sh1003-Top of Slab Elevations.dgn 7/11/2016 8:55:20 PM

	USER NAME = brennar	DESIGNED - KEF	REVISED -	<b>STATE OF ILLINOIS</b> <b>PEORIA COUNTY HIGHWAY DEPARTMENT</b>	<b>TOP OF SLAB ELEVATIONS</b> <b>STRUCTURE NO. 072-3153</b>	F.A.P. RTE. = 389	SECTION = 13-00049-01-BR	COUNTY = PEORIA	TOTAL SHEETS = 151	SHEET NO. = 90			
	FILENAME = D414274-sh1003-Top of Slab Elevations.dgn	CHECKED - BKR	REVISED -			SHEET 3 OF 20 SHEETS		CONTRACT NO. 89676					
	PLOT SCALE =	DRAWN - DBB	REVISED -			ILLINOIS FED. AID PROJECT							
	PLOT DATE = 7/11/2016	CHECKED - 07/13/16	REVISED -										



**GIRDER 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of West Abut.	159+83.95	-11.13	530.94	530.94
Ⓞ Brg. W. Abut.	159+85.62	-11.13	530.93	530.93
A	159+95.62	-11.13	530.88	530.97
B	160+05.62	-11.13	530.83	531.00
C	160+15.62	-11.13	530.78	531.02
D	160+25.62	-11.13	530.73	531.01
E	160+35.62	-11.13	530.68	530.99
F	160+45.62	-11.13	530.63	530.94
G	160+55.62	-11.13	530.58	530.87
H	160+65.62	-11.13	530.53	530.77
I	160+75.62	-11.13	530.48	530.66
J	160+85.62	-11.13	530.43	530.53
Ⓞ Brg. E. Abut.	160+97.28	-11.13	530.37	530.37
Back of East Abut.	160+98.95	-11.13	530.36	530.36

**GIRDER 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of West Abut.	159+83.95	-3.71	531.05	531.05
Ⓞ Brg. W. Abut.	159+85.62	-3.71	531.05	531.05
A	159+95.62	-3.71	531.00	531.08
B	160+05.62	-3.71	530.95	531.11
C	160+15.62	-3.71	530.90	531.13
D	160+25.62	-3.71	530.85	531.13
E	160+35.62	-3.71	530.80	531.10
F	160+45.62	-3.71	530.75	531.06
G	160+55.62	-3.71	530.70	530.98
H	160+65.62	-3.71	530.65	530.89
I	160+75.62	-3.71	530.60	530.78
J	160+85.62	-3.71	530.55	530.65
Ⓞ Brg. E. Abut.	160+97.28	-3.71	530.49	530.49
Back of East Abut.	160+98.95	-3.71	530.48	530.48

**ROADWAY & PG**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of West Abut.	159+83.95	0.00	531.11	531.11
Ⓞ Brg. W. Abut.	159+85.62	0.00	531.10	531.10
A	159+95.62	0.00	531.05	531.14
B	160+05.62	0.00	531.00	531.17
C	160+15.62	0.00	530.95	531.19
D	160+25.62	0.00	530.90	531.19
E	160+35.62	0.00	530.85	531.16
F	160+45.62	0.00	530.80	531.11
G	160+55.62	0.00	530.75	531.04
H	160+65.62	0.00	530.70	530.95
I	160+75.62	0.00	530.65	530.83
J	160+85.62	0.00	530.60	530.71
Ⓞ Brg. E. Abut.	160+97.28	0.00	530.55	530.55
Back of East Abut.	160+98.95	0.00	530.54	530.54

**GIRDER 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of West Abut.	159+83.95	3.71	531.05	531.05
Ⓞ Brg. W. Abut.	159+85.62	3.71	531.05	531.05
A	159+95.62	3.71	531.00	531.08
B	160+05.62	3.71	530.95	531.11
C	160+15.62	3.71	530.90	531.13
D	160+25.62	3.71	530.85	531.13
E	160+35.62	3.71	530.80	531.10
F	160+45.62	3.71	530.75	531.06
G	160+55.62	3.71	530.70	530.98
H	160+65.62	3.71	530.65	530.89
I	160+75.62	3.71	530.60	530.78
J	160+85.62	3.71	530.55	530.65
Ⓞ Brg. E. Abut.	160+97.28	3.71	530.49	530.49
Back of East Abut.	160+98.95	3.71	530.48	530.48

**GIRDER 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of West Abut.	159+83.95	11.13	530.94	530.94
Ⓞ Brg. W. Abut.	159+85.62	11.13	530.93	530.93
A	159+95.62	11.13	530.88	530.97
B	160+05.62	11.13	530.83	531.00
C	160+15.62	11.13	530.78	531.02
D	160+25.62	11.13	530.73	531.01
E	160+35.62	11.13	530.68	530.99
F	160+45.62	11.13	530.63	530.94
G	160+55.62	11.13	530.58	530.87
H	160+65.62	11.13	530.53	530.77
I	160+75.62	11.13	530.48	530.66
J	160+85.62	11.13	530.43	530.53
Ⓞ Brg. E. Abut.	160+97.28	11.13	530.37	530.37
Back of East Abut.	160+98.95	11.13	530.36	530.36

**GIRDER 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of West Abut.	159+83.95	18.55	530.79	530.79
Ⓞ Brg. W. Abut.	159+85.62	18.55	530.78	530.78
A	159+95.62	18.55	530.73	530.82
B	160+05.62	18.55	530.68	530.84
C	160+15.62	18.55	530.63	530.86
D	160+25.62	18.55	530.58	530.85
E	160+35.62	18.55	530.53	530.83
F	160+45.62	18.55	530.48	530.78
G	160+55.62	18.55	530.43	530.71
H	160+65.62	18.55	530.38	530.62
I	160+75.62	18.55	530.33	530.50
J	160+85.62	18.55	530.28	530.38
Ⓞ Brg. E. Abut.	160+97.28	18.55	530.22	530.22
Back of East Abut.	160+98.95	18.55	530.21	530.21

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**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 072-3153**

SHEET 4 OF 20 SHEETS

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 91
CONTRACT NO. 89676				ILLINOIS FED. AID PROJECT

**NORTH EDGE OF SHOULDER**

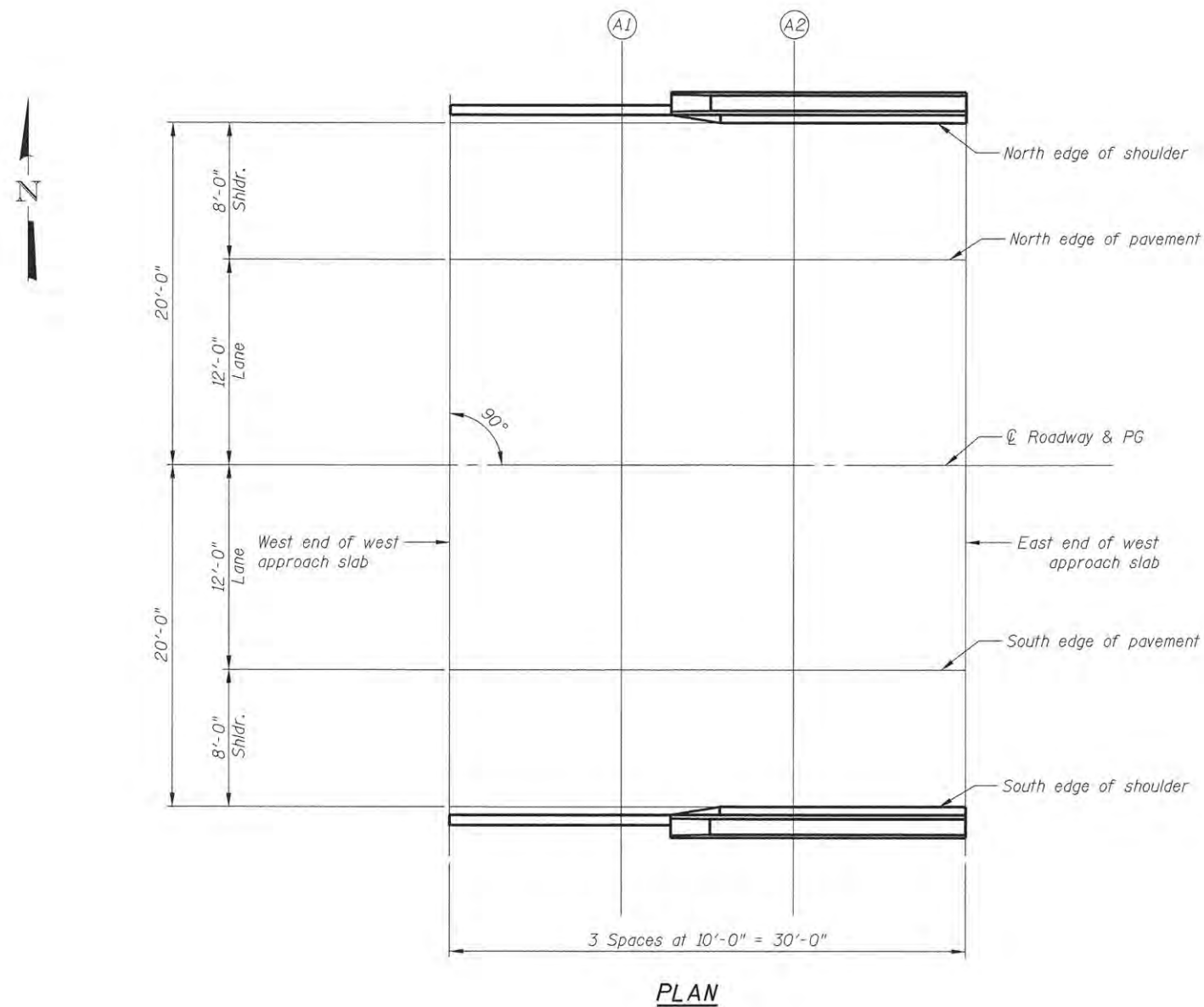
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF W. APPR.	159+54.95	-20.00	530.90
A1	159+64.95	-20.00	530.85
A2	159+74.95	-20.00	530.80
E. END OF W. APPR.	159+84.95	-20.00	530.75

**NORTH EDGE OF PAVEMENT**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF W. APPR.	159+54.95	-12.00	531.07
A1	159+64.95	-12.00	531.02
A2	159+74.95	-12.00	530.97
E. END OF W. APPR.	159+84.95	-12.00	530.92

**CL ROADWAY & PG**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF W. APPR.	159+54.95	0.00	531.26
A1	159+64.95	0.00	531.21
A2	159+74.95	0.00	531.16
E. END OF W. APPR.	159+84.95	0.00	531.11



**SOUTH EDGE OF PAVEMENT**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF W. APPR.	159+54.95	12.00	531.07
A1	159+64.95	12.00	531.02
A2	159+74.95	12.00	530.97
E. END OF W. APPR.	159+84.95	12.00	530.92

**SOUTH EDGE OF SHOULDER**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF W. APPR.	159+54.95	20.00	530.90
A1	159+64.95	20.00	530.85
A2	159+74.95	20.00	530.80
E. END OF W. APPR.	159+84.95	20.00	530.75

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**STATE OF ILLINOIS  
PEORIA COUNTY HIGHWAY DEPARTMENT**

**TOP OF WEST APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 072-3153**

F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 92
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89676	



**NORTH EDGE OF SHOULDER**

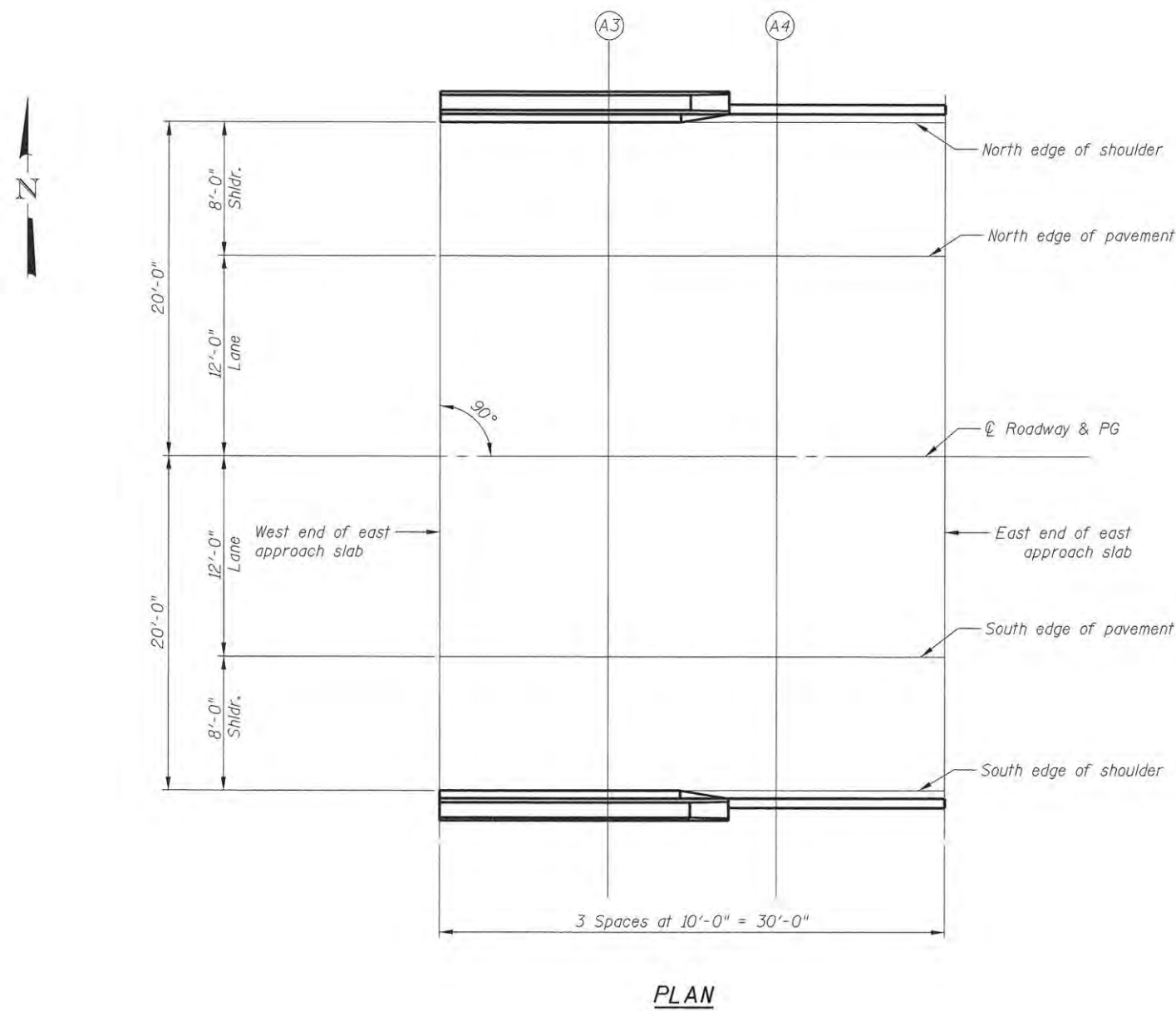
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF E. APPR.	160+97.95	-20.00	530.19
A3	161+07.95	-20.00	530.14
A4	161+17.95	-20.00	530.09
E. END OF E. APPR.	161+27.95	-20.00	530.04

**NORTH EDGE OF PAVEMENT**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF E. APPR.	160+97.95	-12.00	530.35
A3	161+07.95	-12.00	530.30
A4	161+17.95	-12.00	530.25
E. END OF E. APPR.	161+27.95	-12.00	530.20

**CL ROADWAY & PG**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF E. APPR.	160+97.95	0.00	530.54
A3	161+07.95	0.00	530.49
A4	161+17.95	0.00	530.44
E. END OF E. APPR.	161+27.95	0.00	530.39



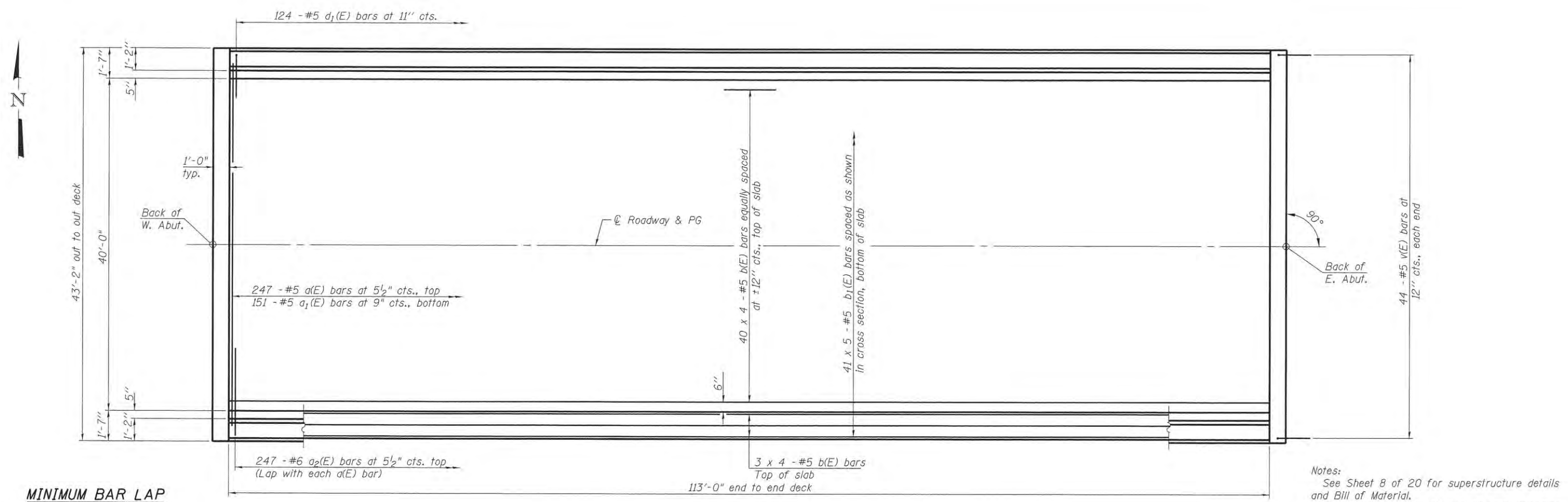
**SOUTH EDGE OF PAVEMENT**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF E. APPR.	160+97.95	12.00	530.35
A3	161+07.95	12.00	530.30
A4	161+17.95	12.00	530.25
E. END OF E. APPR.	161+27.95	12.00	530.20

**SOUTH EDGE OF SHOULDER**

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. END OF E. APPR.	160+97.95	20.00	530.19
A3	161+07.95	20.00	530.14
A4	161+17.95	20.00	530.09
E. END OF E. APPR.	161+27.95	20.00	530.04

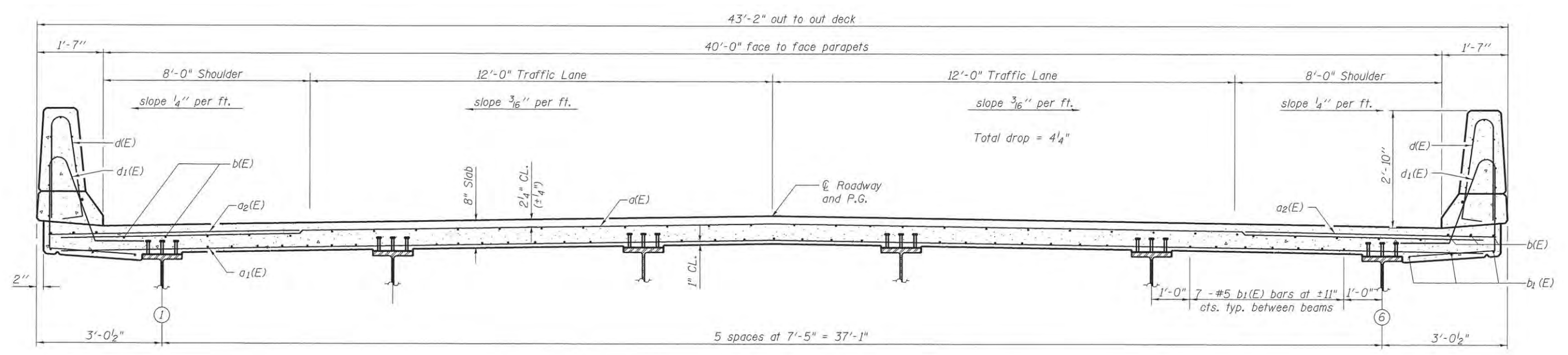
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**MINIMUM BAR LAP**  
#5 bar = 3'-9"

**PLAN**

Notes:  
See Sheet 8 of 20 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
See Sheet 8 of 20 for parapet reinforcement.



**CROSS SECTION**  
(Looking East)

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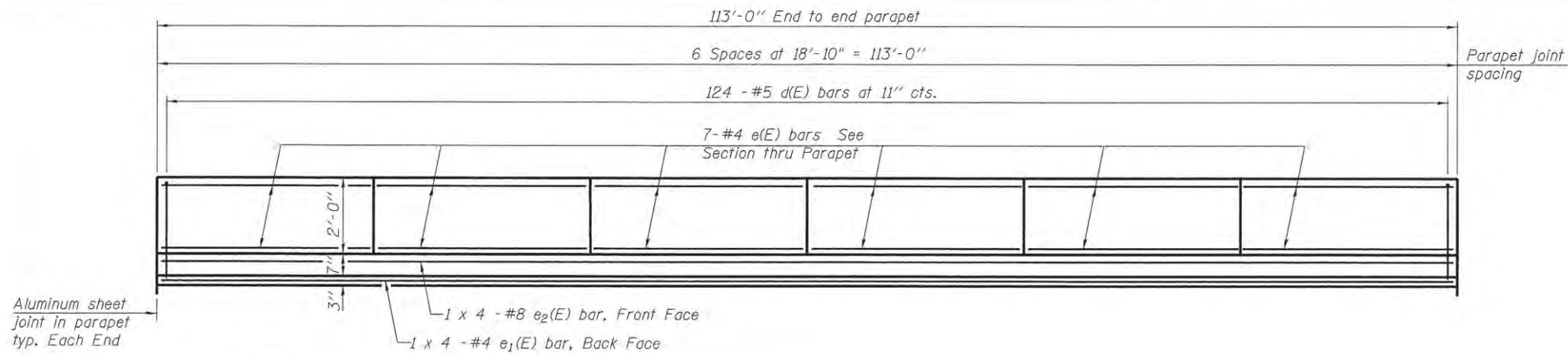
**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 072-3153**

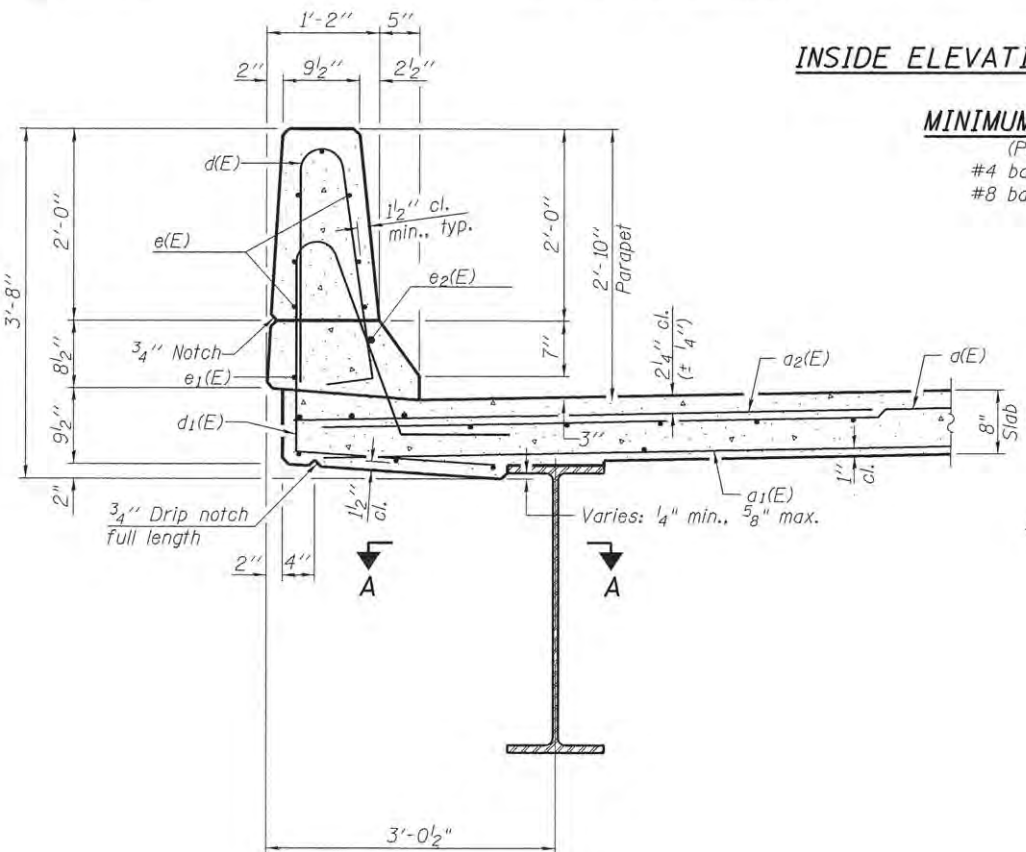
SHEET 7 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				



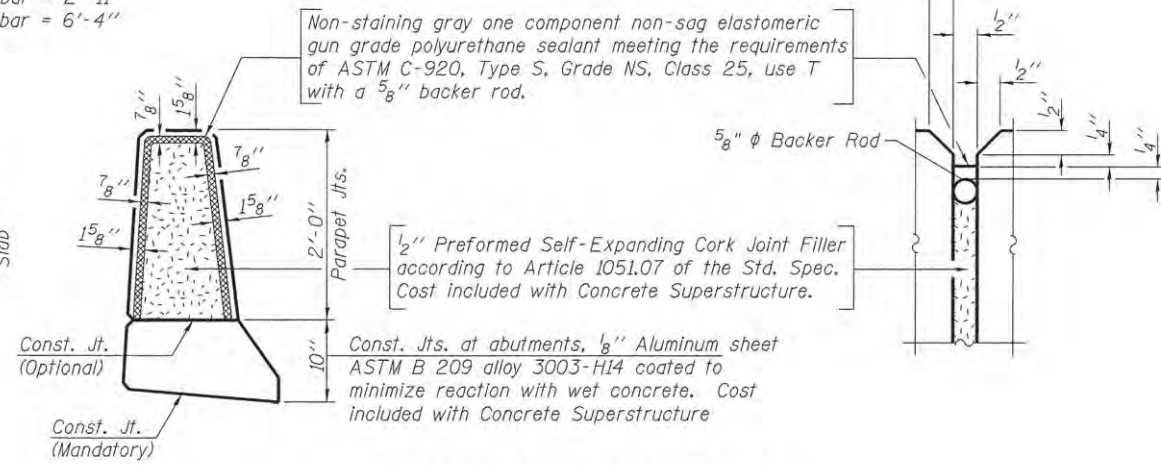


**INSIDE ELEVATION OF PARAPET**



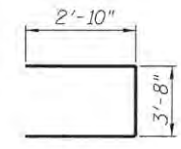
**MINIMUM BAR LAP**

(Parapet)  
 #4 bar = 2'-11"  
 #8 bar = 6'-4"

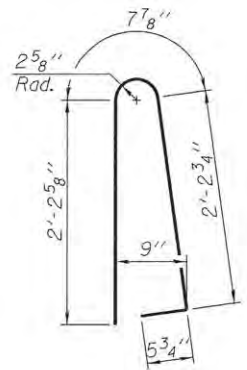


**PARAPET JOINT DETAILS**

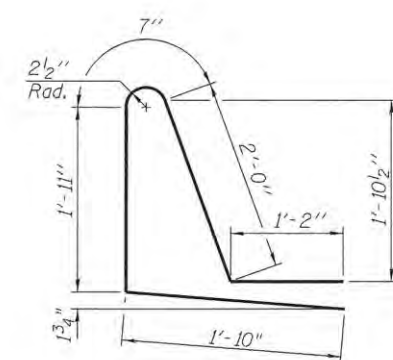
**SECTION THRU PARAPET**



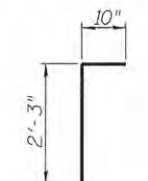
**BAR s(E)**



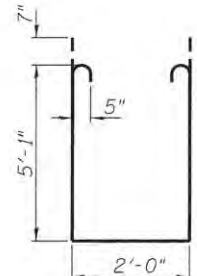
**BAR d(E)**



**BAR d1(E)**



**BAR v(E)**



**BAR s1(E)**

**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	247	#5	42'-6"	U
d1(E)	151	#5	41'-2"	U
a2(E)	494	#6	6'-6"	—
b(E)	184	#5	31'-0"	—
b1(E)	205	#5	25'-7"	—
d(E)	248	#5	5'-7"	U
d1(E)	248	#5	7'-6"	U
e(E)	84	#4	18'-6"	—
e1(E)	8	#4	30'-4"	—
e2(E)	8	#8	32'-11"	—
m(E)	12	#6	42'-10"	—
m1(E)	50	#6	7'-0"	—
m2(E)	20	#6	2'-8"	—
m3(E)	60	#5	4'-0"	—
s(E)	82	#5	9'-4"	U
s1(E)	82	#5	13'-4"	U
v(E)	88	#5	3'-1"	U
Reinforcement Bars, Epoxy Coated			Pound	42,800
Concrete Superstructure			Cu. Yd.	200.1

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

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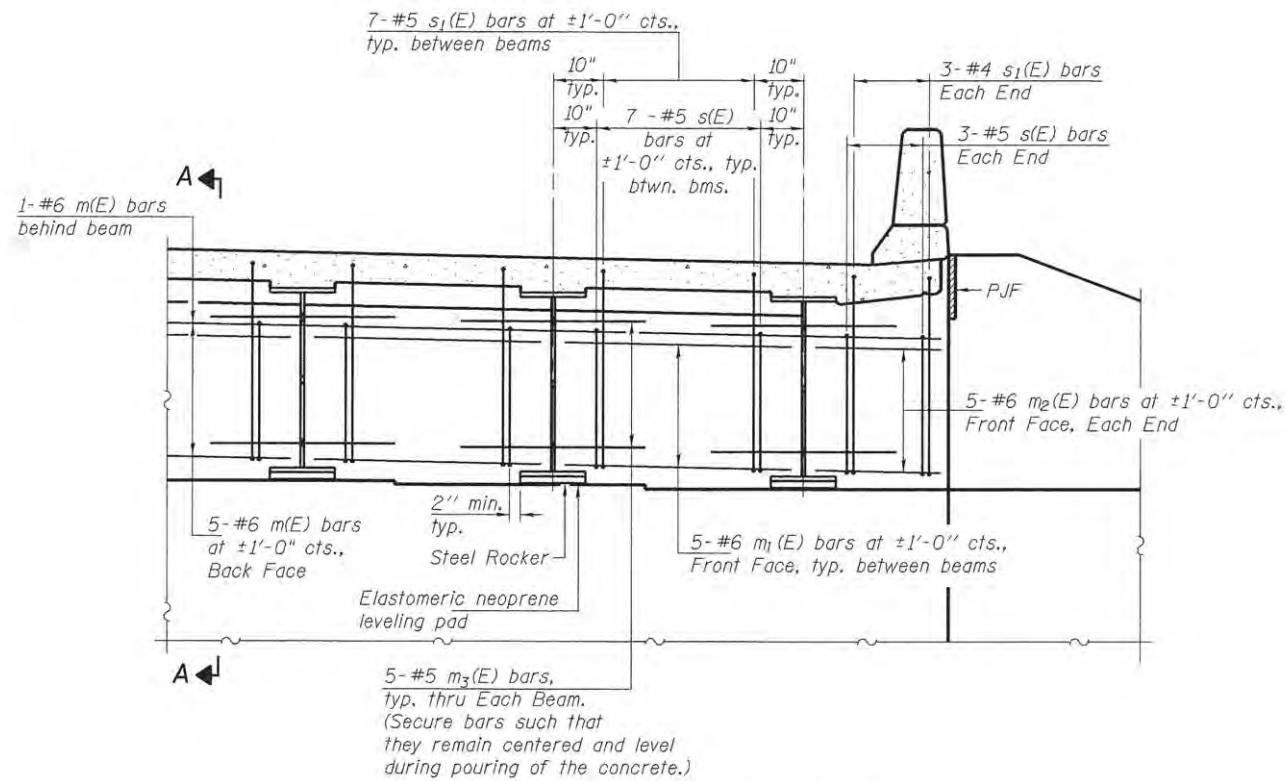
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**STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT**

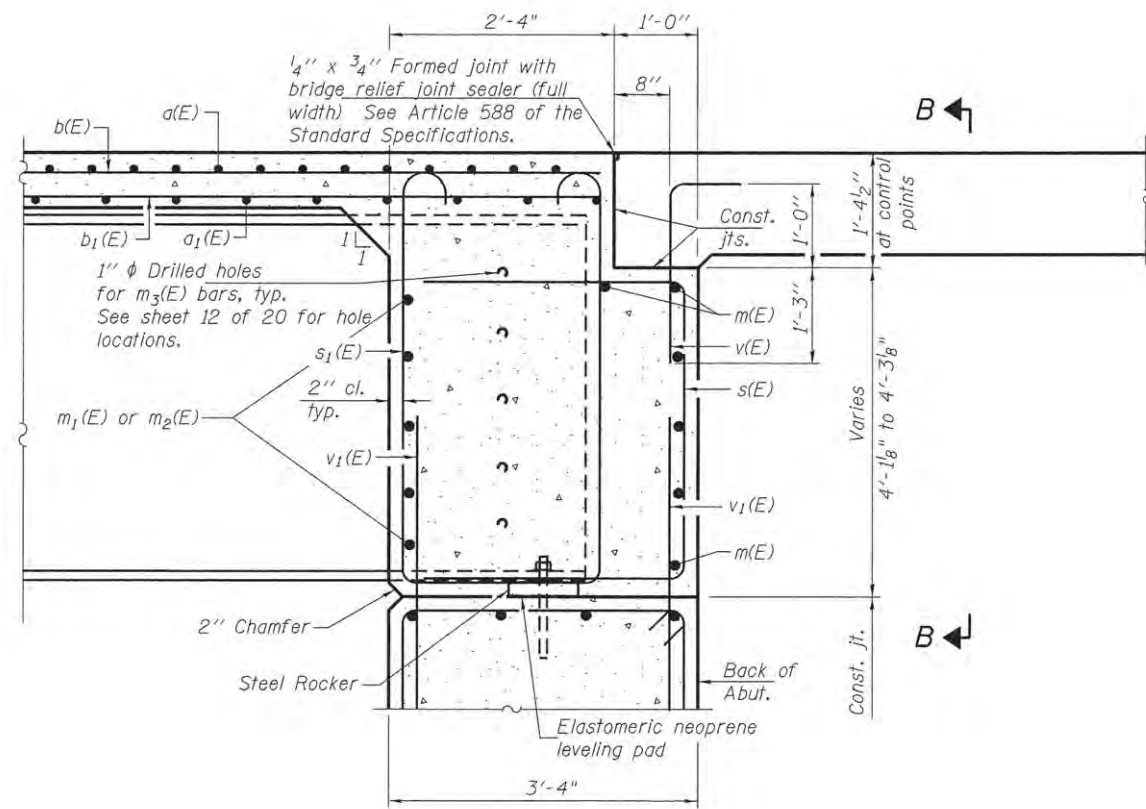
**SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 072-3153**

SHEET 8 OF 20 SHEETS

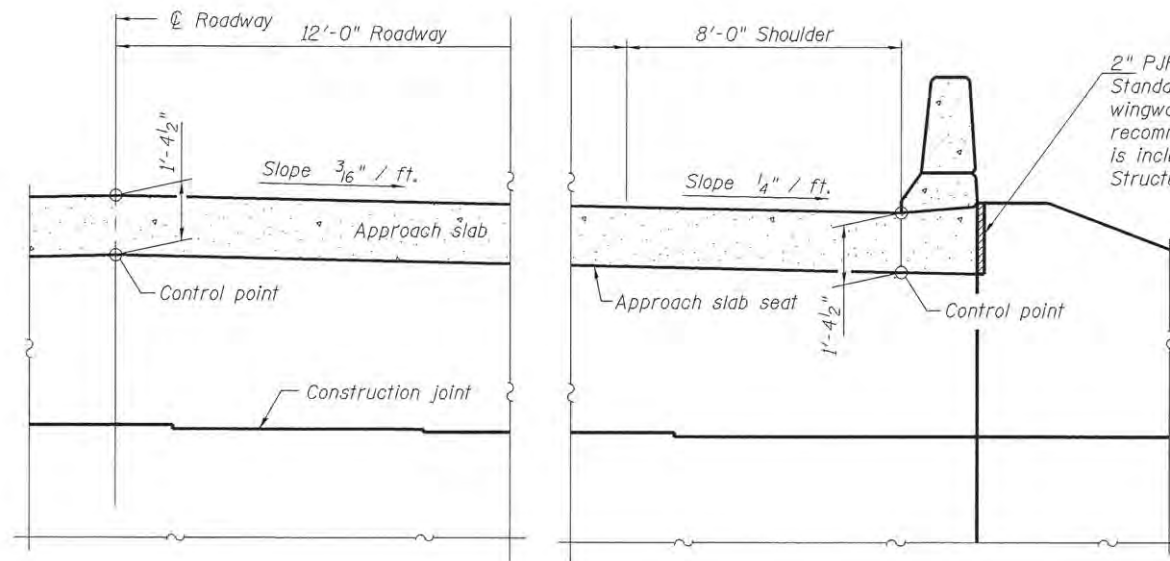
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			CONTRACT NO. 89676	
ILLINOIS FED. AID PROJECT				



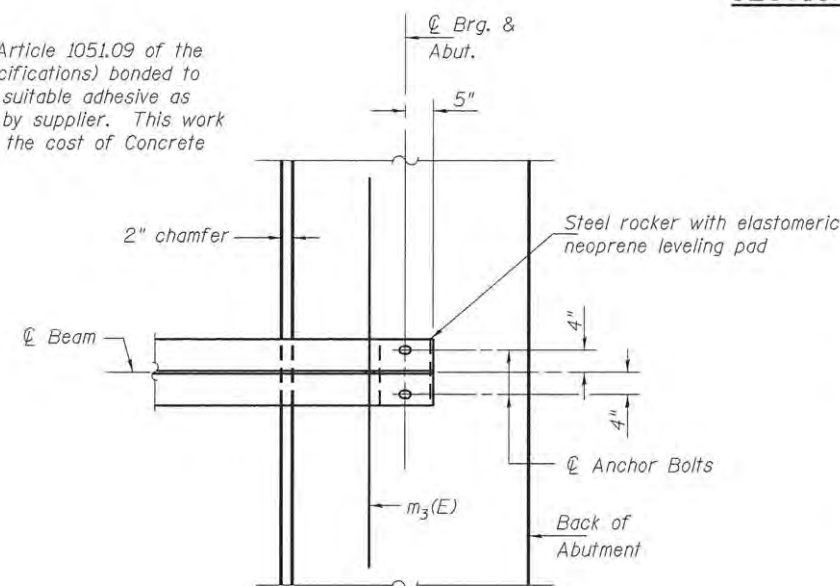
**DIAPHRAGM ELEVATION AT ABUTMENT**



**SECTION A-A**



**SECTION B-B**



**PARTIAL PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 20.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 20.  
 For details of bars s(E), s1(E) and v(E) see sheet 8 of 20.  
 The approach slab seat shall have a constant slope determined from the control points shown.  
 For bearing details see sheet 13 of 20.

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**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

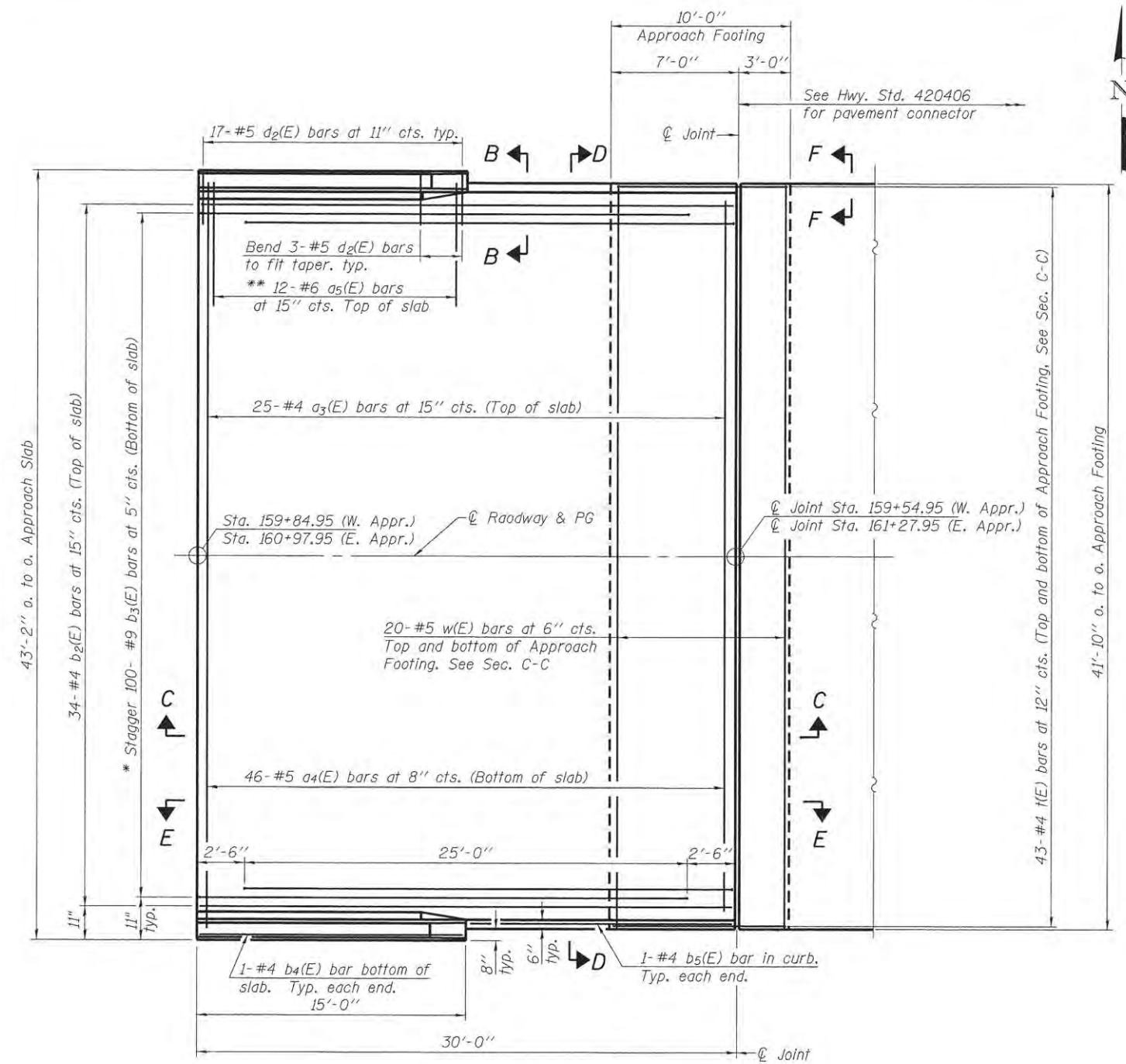
**INTEGRAL ABUTMENT DIAPHRAGM DETAILS**  
**STRUCTURE NO. 072-3153**

SHEET 9 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				89676
ILLINOIS FED. AID PROJECT				



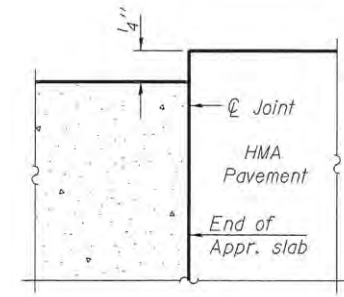
Notes:  
 See sheet 11 of 20 for Sections C-C & D-D and View E-E.  
 $a_3(E)$  and  $a_4(E)$  bar spacings measured along  $\text{C.Rdwy.}$   
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be  $1\frac{1}{2}$ " for installation purposes.



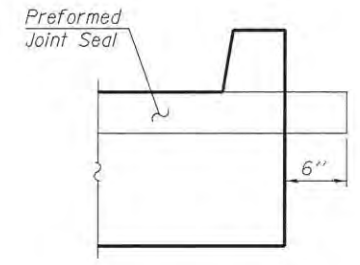
**PLAN**

(East approach span shown. West approach similar by 180° rotation except as noted)

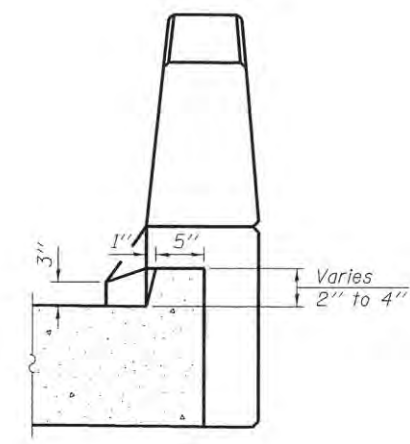
\* Tilt #9  $b_3(E)$  bars as required to maintain clearance.  
 \*\* Space between  $a_3(E)$  bars, typ. ea. parapet.



**FLEXIBLE PAVEMENT  
 DETAIL A**



**VIEW F-F**



**VIEW B-B**

(Sheet 1 of 2)

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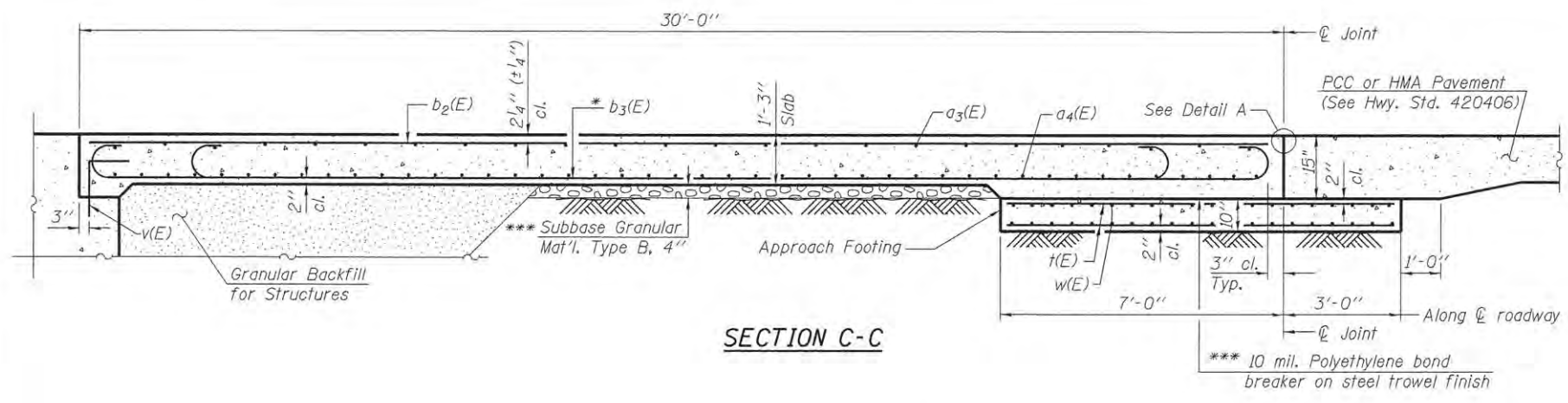
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**STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT**

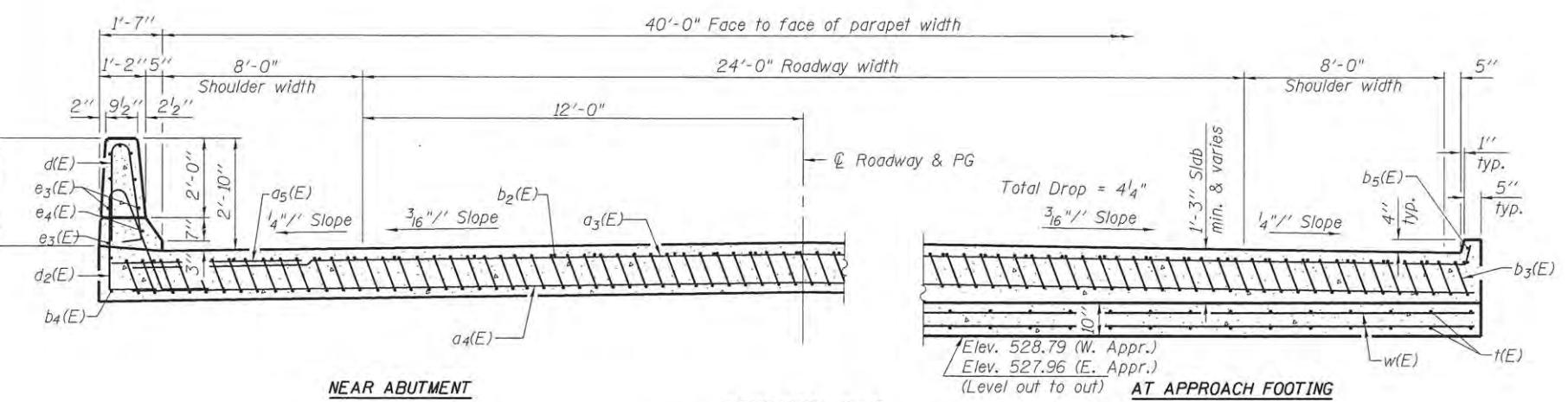
**BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 072-3153**

SHEET 10 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	97
CONTRACT NO.			89676	
ILLINOIS FED. AID PROJECT				



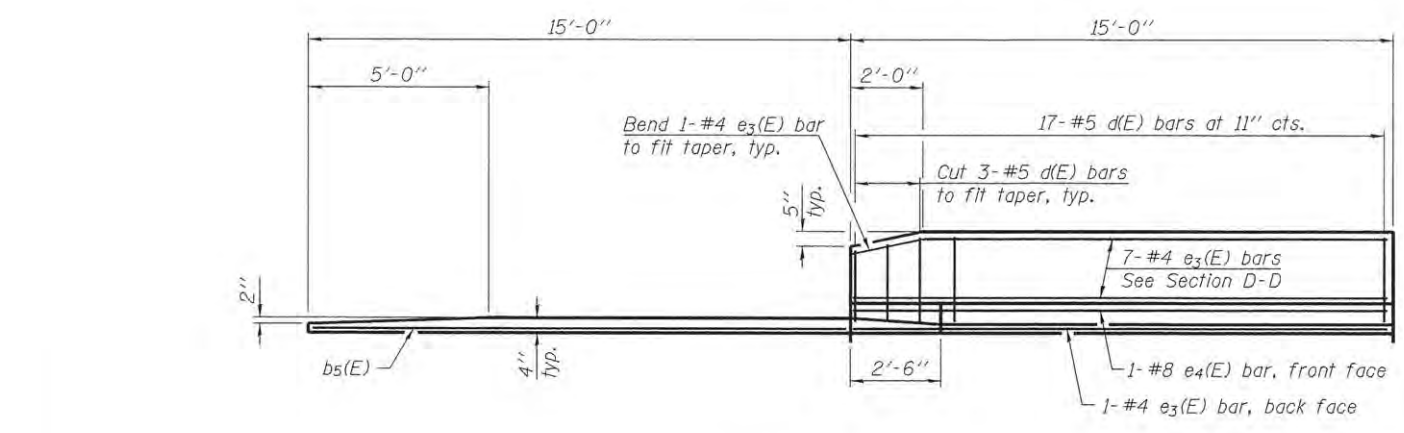
**SECTION C-C**



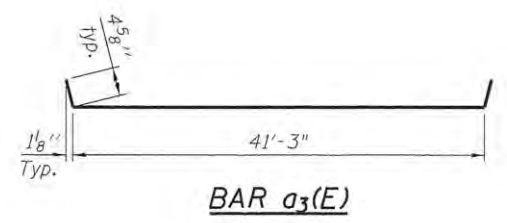
**NEAR ABUTMENT**

**SECTION D-D**

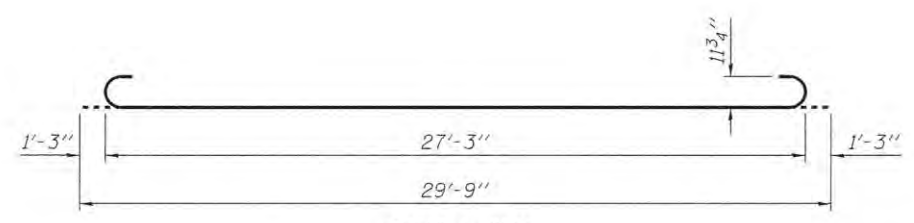
(See Plan for dimensions not shown)



**VIEW E-E**

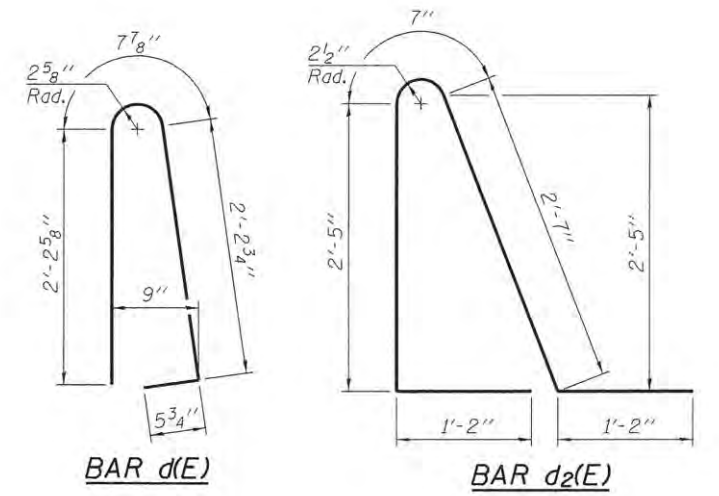


**BAR a3(E)**



**BAR b3(E)**

**Notes:**  
 See sheet 10 of 20 for Detail A and View B-B.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab)  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see sheet 8 of 20.  
 The approach footing maximum applied service bearing pressure (Qmax) = 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 20.  
 For additional parapet details, see sheet 8 of 20.



**BAR d(E)**

**BAR d2(E)**

\* Tilt #9 b3(E) bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.

**TWO APPROACHES  
 BILL OF MATERIAL**

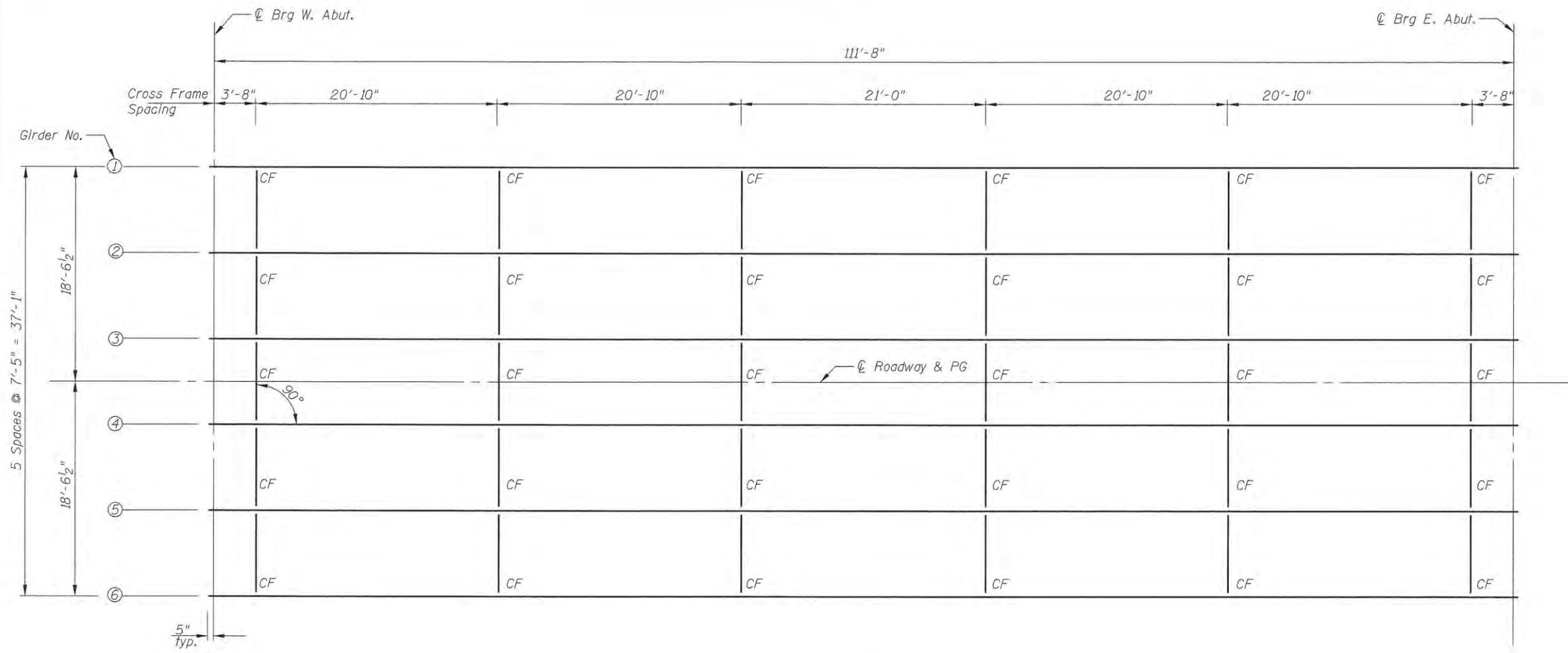
Bar	No.	Size	Length	Shape
a3(E)	50	#4	42'-0"	U
a4(E)	92	#5	41'-6"	—
a5(E)	48	#6	6'-6"	—
b2(E)	68	#4	29'-8"	—
b3(E)	200	#9	29'-9"	U
b4(E)	4	#4	14'-8"	—
b5(E)	4	#4	14'-8"	—
d(E)	68	#5	5'-7"	U
d2(E)	68	#5	7'-11"	U
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
t(E)	172	#4	9'-8"	—
w(E)	80	#5	41'-6"	—
Concrete Superstructure			Cu. Yd.	122.6
Concrete Superstructure (Approach Slab)			Cu. Yd.	6.8
Concrete Structures			Cu. Yd.	25.8
Reinforcement Bars, Epoxy Coated			Pound	33,510

(Sheet 2 of 2)

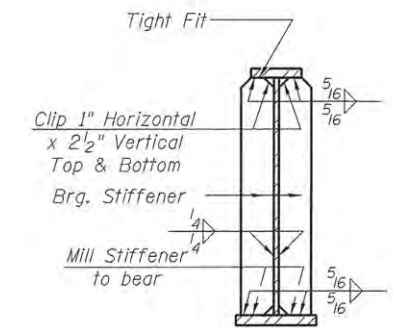
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	SHEET 11 OF 20 SHEETS				(Sheet 2 of 2)	

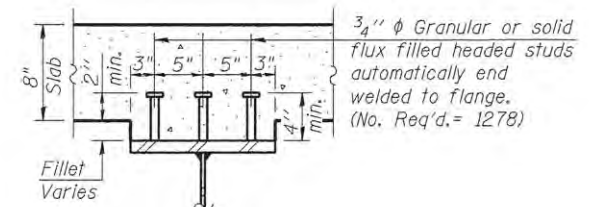




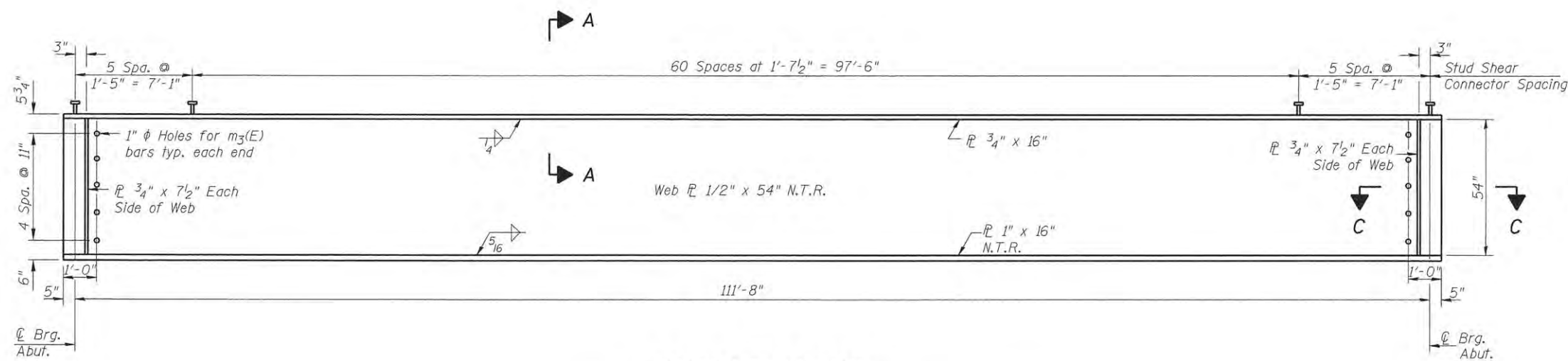
**FRAMING PLAN**



**SECTION AT ABUTMENT**



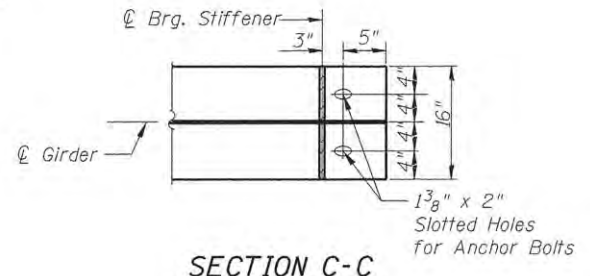
**SECTION A-A**



**GIRDER ELEVATION**

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

All plates and bearing stiffeners shall be AASHTO M270, Grade 50W



**SECTION C-C**

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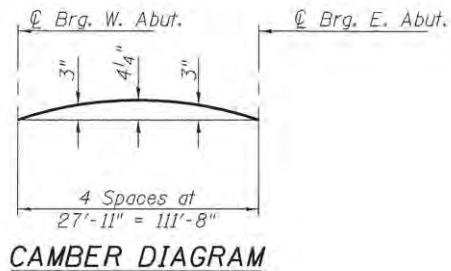
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PLOT DATE = 7/11/2016	CHECKED - 07/13/16	REVISED -

**STATE OF ILLINOIS**  
**PEORIA COUNTY HIGHWAY DEPARTMENT**

**FRAMING PLAN AND GIRDER ELEVATION**  
**STRUCTURE NO. 072-3153**

SHEET 12 OF 20 SHEETS

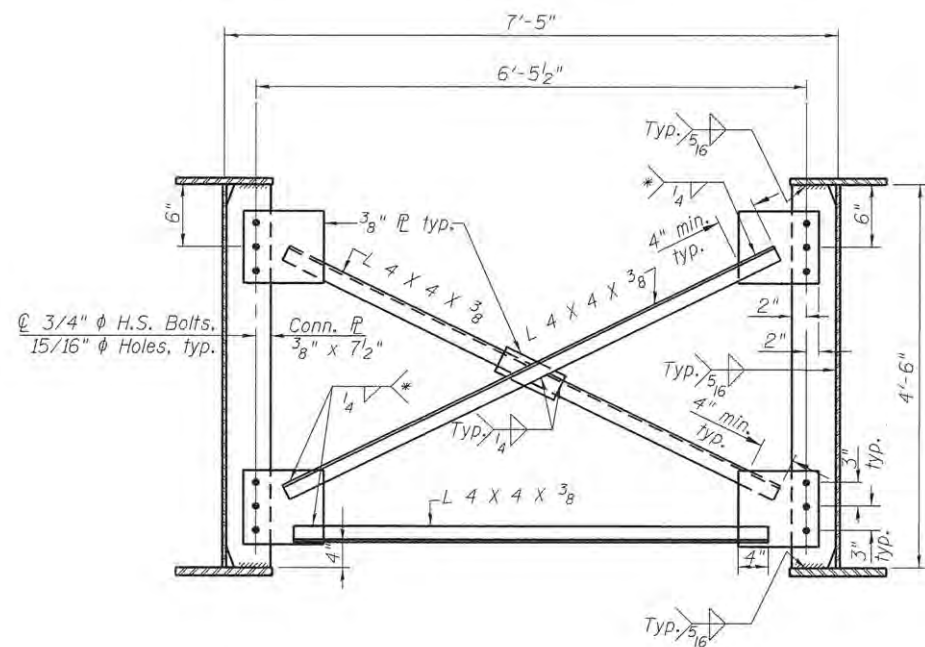
F.A.P. RTE. 389	SECTION 13-00049-01-BR	COUNTY PEORIA	TOTAL SHEETS 151	SHEET NO. 99
CONTRACT NO. 89676				ILLINOIS FED. AID PROJECT



**\*TOP OF WEB ELEVATIONS**

Location	℄ Brg. W. Abut.	℄ Brg. E. Abut.
Girder 1	529.97	529.41
Girder 2	530.13	529.57
Girder 3	530.24	529.68
Girder 4	530.24	529.68
Girder 5	530.13	529.57
Girder 6	529.97	529.41

\*For Fabrication use only



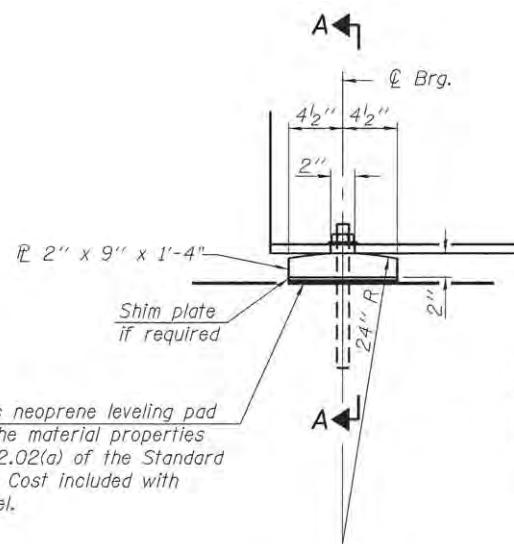
**INTERIOR CROSS FRAME CF**

(No. Required = 30)

\*Fillet weld angles along 3 sides on one face of gusset plate.

Notes:  
 Detail 15/16" φ holes for all 3/4" φ bolts.  
 Two hardened washers required for each set of oversized holes.  
 All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.  
 All structural steel in Cross Frames shall conform to the requirements of AASHTO M270, Grade 50W.

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.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 The structural steel bearing plates shall conform to the requirements of AASHTO M270 Grade 50W.  
 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.  
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after members are in place.

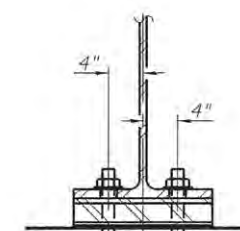


**ELEVATION AT ABUTMENT**

**FIXED BEARING**

INTERIOR GIRDER MOMENT TABLE		0.5 Span
$I_s$	(in <sup>4</sup> )	27,430
$I_c(n)$	(in <sup>4</sup> )	66,529
$I_c(3n)$	(in <sup>4</sup> )	48,819
$I_c(cr)$	(in <sup>4</sup> )	—
$S_s$	(in <sup>3</sup> )	1,056.2
$S_c(n)$	(in <sup>3</sup> )	1,435.7
$S_c(3n)$	(in <sup>3</sup> )	1,313.7
$S_c(cr)$	(in <sup>3</sup> )	—
DC1	(k/')	0.983
M <sub>DC1</sub>	(k)	1,532
DC2	(k/')	0.150
M <sub>DC2</sub>	(k)	234
DW	(k/')	0.371
M <sub>DW</sub>	(k)	578
LLDF		0.586
M <sub>℄ + IM</sub>	(k)	1,936
M <sub>u</sub> (Strength I)	(k)	6,463
φ <sub>r</sub> M <sub>n</sub>	(k)	7,428
f <sub>s</sub> DC1	(ksi)	17.4
f <sub>s</sub> DC2	(ksi)	2.1
f <sub>s</sub> DW	(ksi)	5.3
f <sub>s</sub> (℄ + IM)	(ksi)	16.2
f <sub>s</sub> (Service II)	(ksi)	45.9
0.95R <sub>h</sub> F <sub>yf</sub>	(ksi)	47.5
f <sub>s</sub> (Total)Strength I	(ksi)	—
φ <sub>r</sub> F <sub>n</sub>	(ksi)	—
V <sub>r</sub>	(k)	27.4

	Abut.	
	Interior	Exterior
LLDF	0.773	0.577
OCF	—	—
R <sub>DC1</sub>	(k) 54.9	53.3
R <sub>DC2</sub>	(k) 8.4	8.4
R <sub>DW</sub>	(k) 20.7	18.6
R <sub>℄</sub>	(k) 71.8	53.6
R <sub>IM</sub>	(k) 23.7	17.7
R <sub>Total</sub>	(k) 179.5	151.6



**SECTION A-A**

$I_s, S_s$ : 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<sup>4</sup> and in<sup>3</sup>).

$I_c(n), S_c(n)$ : 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<sup>4</sup> and in<sup>3</sup>).

$I_c(3n), S_c(3n)$ : 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<sup>4</sup> and in<sup>3</sup>).

$I_c(cr), S_c(cr)$ : 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<sup>4</sup> and in<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).  
 M<sub>DC1</sub>: 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<sub>DC2</sub>: 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<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 M<sub>℄ + IM</sub>: Un-factored live load moment plus dynamic load allowance (Impact, kip-ft.).  
 M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).  
 1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M<sub>℄ + IM</sub>  
 φ<sub>r</sub>M<sub>n</sub>: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).  
 f<sub>s</sub> DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
 M<sub>DC1</sub> / S<sub>nc</sub>  
 f<sub>s</sub> DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
 M<sub>DC2</sub> / S<sub>c(3n)</sub> or M<sub>DC2</sub> / S<sub>c(cr)</sub> as applicable.  
 f<sub>s</sub> 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<sub>DW</sub> / S<sub>c(3n)</sub> or M<sub>DW</sub> / S<sub>c(cr)</sub> as applicable.  
 f<sub>s</sub> (℄ + 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<sub>℄ + IM</sub> / S<sub>c(n)</sub> or M<sub>℄ + IM</sub> / S<sub>c(cr)</sub> as applicable.  
 f<sub>s</sub> (Service II): Sum of stresses as computed below (ksi).  
 f<sub>s</sub> DC1 + f<sub>s</sub> DC2 + f<sub>s</sub> DW + 1.3 f<sub>s</sub> (℄ + IM)  
 0.95R<sub>h</sub>F<sub>yf</sub>: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).  
 f<sub>s</sub> (Total)Strength I: Sum of stresses as computed below on non-compact section (ksi).  
 1.25 (f<sub>s</sub> DC1 + f<sub>s</sub> DC2) + 1.5 f<sub>s</sub> DW + 1.75 f<sub>s</sub> (℄ + IM)  
 φ<sub>r</sub>F<sub>n</sub>: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).  
 V<sub>r</sub>: Maximum factored shear range in span computed according to Article 6.10.10.

Note:  
 M<sub>℄</sub> and R<sub>℄</sub> include the effects of centrifugal force and superelevation.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	Each	24

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 CHECKED - BKR  
 DRAWN - DDB  
 CHECKED - DT/13/16

REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 PEORIA COUNTY HIGHWAY DEPARTMENT

STRUCTURAL STEEL DETAILS  
 STRUCTURE NO. 072-3153

SHEET 13 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	13-00049-01-BR	PEORIA	151	100
CONTRACT NO. 89676				
ILLINOIS FED. AID PROJECT				