

04-23-2021 LETTING ITEM 088

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2
FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA: TR 175 (MCGIRR ROAD)
CURRENT ADT = 450
2040 ADT = 710

POSTED SPEED LIMIT = 45 MPH
DESIGN SPEED LIMIT = 45 MPH

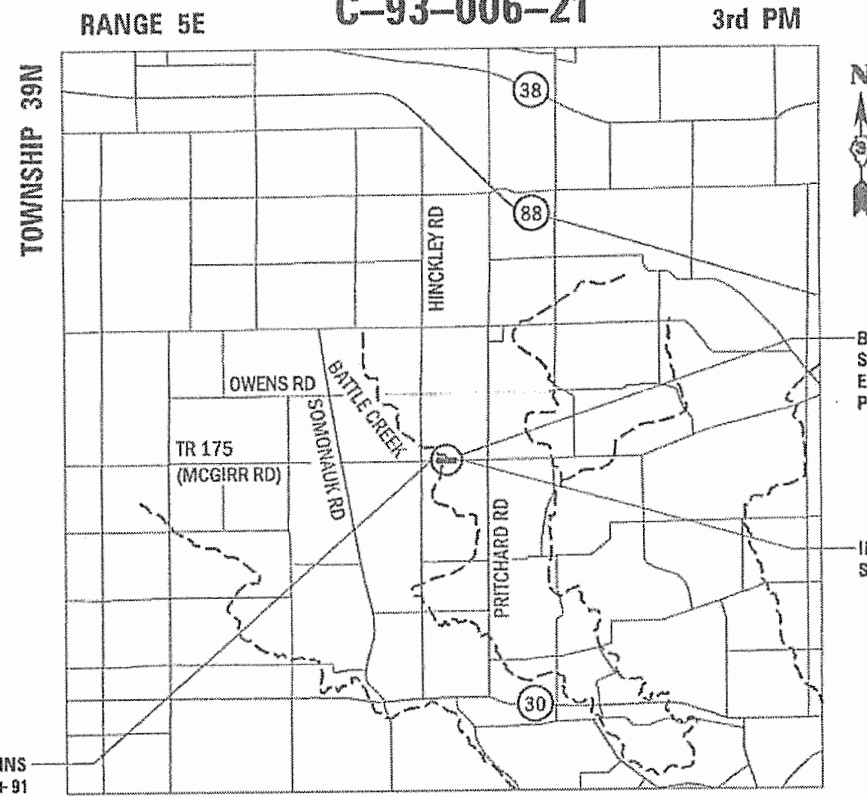
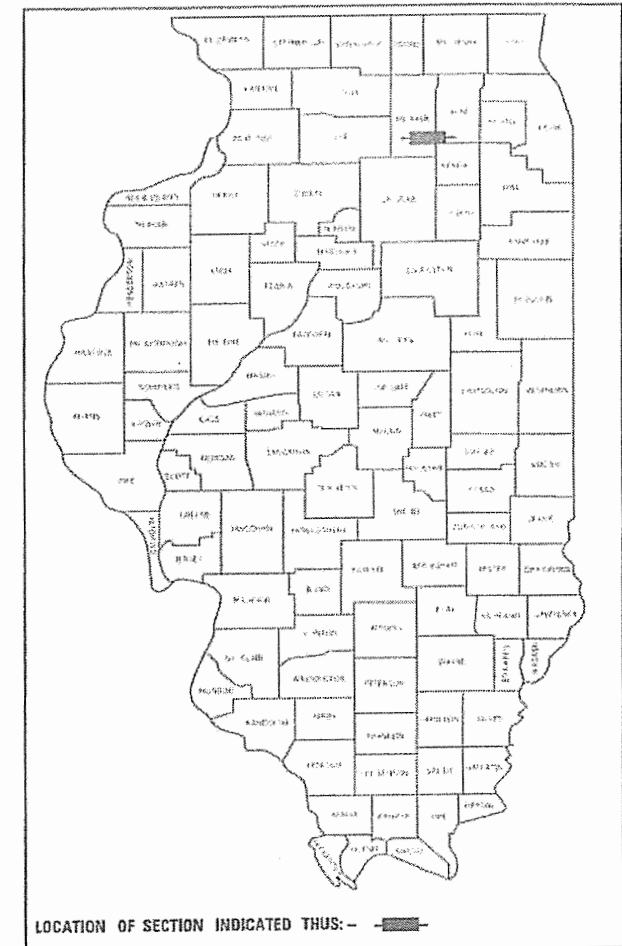
DESIGN DESIGNATION
LOCAL ROAD (RURAL)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

TR 175 (MCGIRR ROAD)
SECTION 15-12119-01-BR
PROJECT G8M3(447)
BRIDGE REPLACEMENT
PIERCE TOWNSHIP
DEKALB COUNTY
STP-BR FUNDS
C-93-006-21

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	1
		ILLINOIS	CONTRACT NO. 87739	

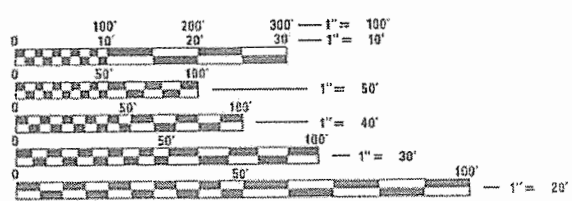


BRIDGE REPLACEMENT
STA 26+41.97
EX STRUCTURE NO. 019-5111
PR STRUCTURE NO. 019-5115

IMPROVEMENT ENDS
STA 29+96

IMPROVEMENT BEGINS
STA 21+91

GROSS LENGTH = 805 FT. = 0.152 MILE
NET LENGTH = 805 FT. = 0.152 MILE



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 EXCAVATORS
1-800-892-0123
OR 811

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED February 16, 2021
[Signature]
DEKALB COUNTY HIGHWAY DEPARTMENT, COUNTY ENGINEER

PASSED FEBRUARY 19, 2021
[Signature]
DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW FEBRUARY 19, 2021
[Signature]
REGION 2 ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

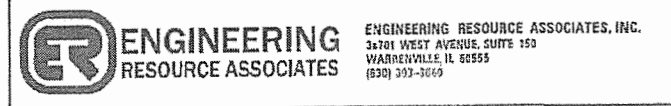
CONTRACT NO. 87739



FEBRUARY 17, 2021
[Signature]
MELISSA F. LANGE, S.E.
ILLINOIS REG. STRUCTURAL ENGINEER NO. 081-006488
EXPIRATION DATE 11-30-2022
SHEETS 13 - 28



FEBRUARY 17, 2021
[Signature]
NICHOLAS VARCHETTO, P.E.
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-068622
EXPIRATION DATE 11-30-2021
SHEETS 1 - 12, 29 - 39





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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULE OF QUANTITIES
7	ALIGNMENT, TIES, & BENCHMARKS
8	REMOVAL PLAN
9	PLAN AND PROFILE
10	TRAFFIC CONTROL PLAN
11	EROSION CONTROL PLAN
12	EROSION CONTROL NOTES
13	PAVEMENT MARKING, SIGNAGE & LANDSCAPING PLAN
14-29	STRUCTURAL SHEETS
30-31	DISTRICT STANDARDS
32-39	CROSS SECTIONS

IDOT HIGHWAY STANDARDS

000001-08	STANDARD 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
515001-04	NAME PLATES FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL GUARDRAIL TERMINALS)
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

DISTRICT 3 STANDARDS

251-2	DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION
280-1	EROSION CONTROL DETAILS FOR SILT FENCE
402-1	FIELD ENTRANCE DETAIL
406-8	HMA DETAIL AT BUTT JOINTS
611-3	PIPE DRAINS AND CONCRETE HEADWALLS
780-8	PAVEMENT MARKING

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE ACCORDING TO THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016. THE " SUPPLEMENTAL SPECIFICATION AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2021, THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES DURING DAYLIGHT HOURS ONLY.
- THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WELLS, CISTERN, WALLS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS.
- THE FINAL TOP SIX INCHES OF SOIL IN ANY DISTURBED AREA BY THE CONTRACTOR SHALL BE FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER AND FREE OF ROOT STUMPS, STONES AND OTHER MATERIAL HARMFUL TO PLANT GROWTH. TOPSOIL MUST MEET REQUIREMENTS OF ARTICLE 1081.05.
- THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
- WHERE SECTIONS OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROJECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT OF WAY PINS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKERS, SECTION OR SUBSECTION MONUMENTS UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE PLACED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO THE FIELD ENTRANCES AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- CLEARING OF BRUSH, BUSHES AND TREES WITH A DIAMETER LESS THAN 6" WILL NOT BE PAID FOR SEPARATELY PER SECTION 201 OF THE STANDARD SPECIFICATIONS.
- PROPOSED END SECTIONS SHALL BE SLOPED TO MATCH THE PROPOSED CULVERTS AND STORM SEWER PIPE SLOPES. CULVERTS MAY REQUIRE REVISIONS TO MEET EXISTING FIELD CONDITIONS.
- ALL SUBSURFACE DRAINS AND/OR FIELD TILES ENCOUNTERED IN THE ROADWAY EXCAVATION SHALL BE REMOVED AND CONSIDERED TO BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAPPING THE EXISTING SUBSURFACE DRAINS OR CONNECTING TO THE PROPOSED DITCHED AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE OWNER. THIS WORK SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- REMOVAL OF END SECTIONS SHALL BE PAID PER FOOT UNDER PIPE CULVERT REMOVAL.
- THE PROPOSED DRAINAGE STRUCTURES AND PIPES SHALL BE PROTECTED IMMEDIATELY AFTER THEY ARE CONSTRUCTED UNTIL THE SURFACES THAT DRAIN TO THEM ARE FULLY PAVED OR VEGETATED.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION, DIRECTION AND MEANS/METHOD OF CONSTRUCTION.
- QUANTITIES AND ASSOCIATED PAY ITEMS FOR EARTHWORK, LANDSCAPE RESTORATION, AND EROSION CONTROL WERE DEVELOPED ACCORDING TO ONLY THE NECESSARY GRADING FOR THE PROJECT PROPOSED AS SHOWN IN THE CROSS SECTIONS. AREAS DISTURBED BEYOND THE SLOPE INTERCEPTS OR WITHIN THE LIMITS OF IMPROVEMENT SHALL HAVE EROSION CONTROL AND LANDSCAPING RESTORATION ACCORDING TO THE ADJACENT REQUIREMENTS SHOWN IN THE PLANS. THE GROUND SHALL BE GRADED AND RESTORED TO MATCH THE EXISTING PRE-CONSTRUCTION CONDITIONS. ALL WORK DESCRIBED ABOVE THAT IS BEYOND THE SLOPE INTERCEPTS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE VARIOUS ESTABLISHED PAY ITEMS.
- ALL SAW CUTS SHALL BE INCLUDED IN THE COST OF THE VARIOUS REMOVAL ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- DAMAGE TO PAVEMENT OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFIED TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL.
- FOR STEEL BAR CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT 815-433-7100.
- MATERIAL EXCAVATED FROM THE CHANNEL SHALL NOT BE RETURNED TO THE WATERWAY.
- IT IS ASSUMED THAT 6" OF THE EXISTING GROUND OUTSIDE THE PAVEMENT SHALL BE EXCAVATED AND REMOVED FROM THE SITE. QUANTITIES FOR THIS WORK ARE INCLUDED IN TOPSOIL EXCAVATION AND PLACEMENT.
- GRADING AND SHAPING DITCHES WILL NOT BE PAID FOR SEPARATELY AND SHOULD BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, WATER AND GAS FACILITIES (MINIMUM 48 HOUR NOTIFICATION REQUIRED).
- AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC PENETROMETER OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED.

UTILITY CONTACTS

ENTITY	CONTACT PERSON	PHONE NUMBER
ADESTAG45 TECHNOLOGY, LLC. COMED FRONTIER COMMUNICATIONS	DOUGLAS GONES AMIR MAHMUTAGIC JOHN GILLOTT	630-343-2826 630-437-2212 815-780-7570

USER NAME = kkołodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
	DRAWN - K. KOŁODZIEJCZYK	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HWY STANDARDS & GENERAL NOTES
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	2
CONTRACT NO. 87739			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FEDERAL , 20% LOCAL	
					BRIDGE	RURAL
S	20200100	EARTH EXCAVATION	CU YD	370		370
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	31	31	
	20300100	CHANNEL EXCAVATION	CU YD	125.6	125.6	
	20400800	FURNISHED EXCAVATION	CU YD	265.1	265.1	
	20900110	POROUS GRANULAR BACKFILL	CU YD	174.5	174.5	
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	438.7	438.7	
	25000200	SEEDING, CLASS 2	ACRE	0.500	0.500	
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
S	25100630	EROSION CONTROL BLANKET	SQ YD	2,408	2,408	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300	
	28000305	TEMPORARY DITCH CHECKS	FOOT	70	70	
	28000400	PERIMETER EROSION BARRIER	FOOT	1,635	1,635	
	28000510	INLET FILTERS	EACH	1	1	
	28100107	STONE RIPRAP, CLASS A4	SQ YD	504	504	
	28200200	FILTER FABRIC	SQ YD	504	504	
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2,078	2,078	
	40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	39	39.0	
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,680	4,680	
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	748	748	
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	567	567	
	40604000	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50	TON	145	145	
	44000100	PAVEMENT REMOVAL	SQ YD	1,063	1,063	
	44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	541	541	
	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	780	780	
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	

* INDICATES SPECIALTY ITEM
S INDICATES ITEMS COVERED BY SPECIAL PROVISIONS



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DRAWN - K. KOLODZIEJCZYK	REVISOR -	175			15-12119-01-BR	DEKALB	39	3	
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PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -			SCALE:	SHEET 1 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES (CON'T)

SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FEDERAL, 20% LOCAL	
					BRIDGE	
					0010	
					RURAL	
	50105220	PIPE CULVERT REMOVAL	FOOT	31		31
	50200100	STRUCTURE EXCAVATION	CU YD	86.8		86.8
	50300225	CONCRETE STRUCTURES	CU YD	31.7		31.7
	50300260	BRIDGE DECK GROOVING	SQ YD	222		222
	50300300	PROTECTIVE COAT	SQ YD	287		287
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,998		1998
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,030		7,030
Δ	50901050	STEEL RAILING TYPE SM	FOOT	138		138
	51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	425		425
	51202305	DRIVING PILES	FOOT	425		425
	51203200	TEST PILE METAL SHELLS	EACH	2		2
	51500100	NAME PLATES	EACH	1		1
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	50		50
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	56		56
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2		2
Δ	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2		2
Δ	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4		4
Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2		2
	67100100	MOBILIZATION	L SUM	1		1
Δ	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4
Δ	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,630		3,630
	X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	222		222
S	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
S	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
S	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	124		124

Δ SPECIALTY ITEMS

* INDICATES SPECIALTY ITEM
S INDICATES ITEMS COVERED BY SPECIAL PROVISIONS



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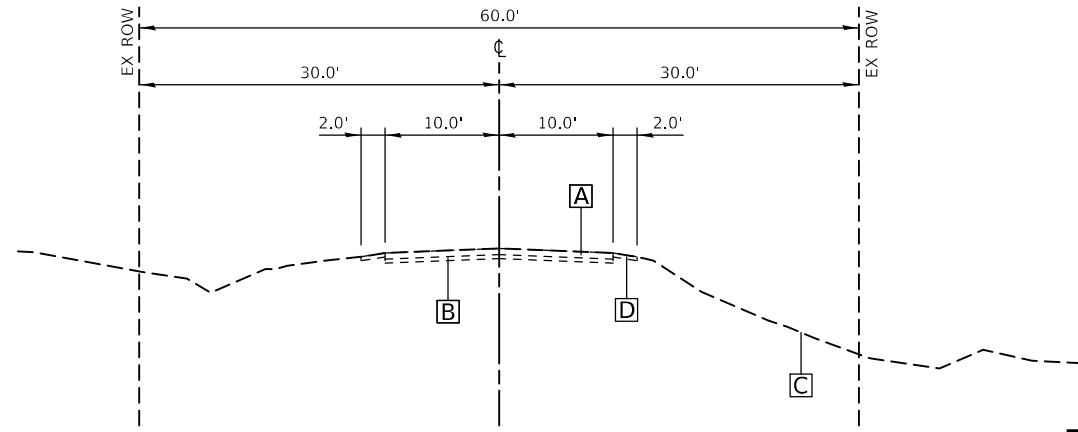
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PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 02-17-2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	4
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

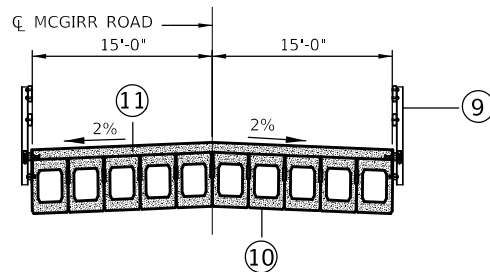
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.



EXISTING TYPICAL SECTION

EXISTING LEGEND

- A HMA PAVEMENT, 5"
- B SUBBASE STONE, 12"
- C EXISTING GROUND
- D AGGREGATE SHOULDER - PAID FOR AS EARTH EXCAVATION



PROPOSED TYPICAL SECTION

BRIDGE OMISSION - BK. TO BK. ABUTMENTS
STA. 26+07.68 TO STA. 26+76.27

* A MINIMUM OF 37 FOOT TRANSITION LENGTH SHALL BE USED TO TRANSITION FROM A 2.0% SHOULDER CROSS SLOPE AT THE BRIDGE TO A STANDARD 4% CROSS SLOPE ON THE HMA SHOULDERS BASED UPON AASHTO MAXIMUM RELATIVE SLOPE FOR DESIGN SPEED = 55 MPH.

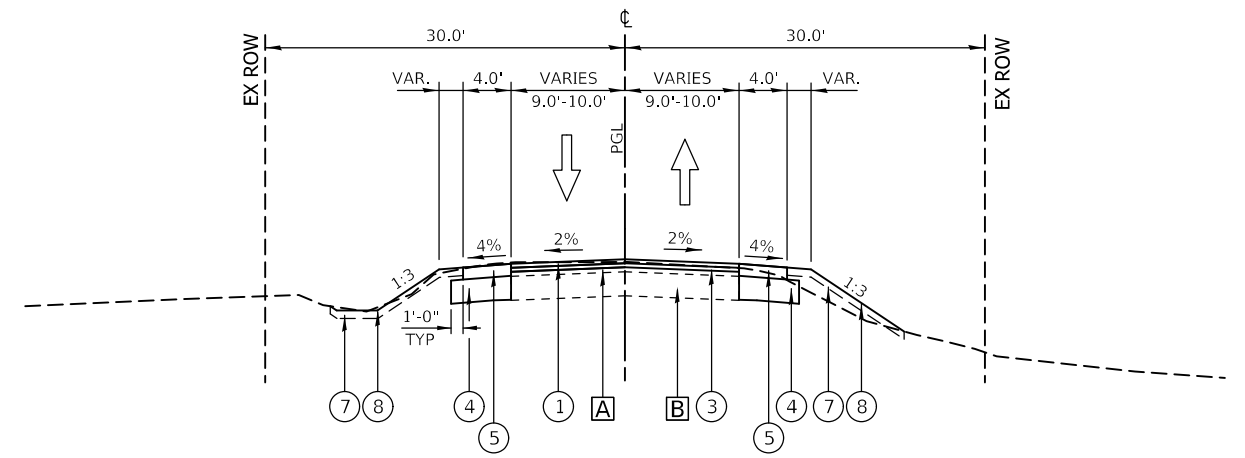
SHLD. TRANSITION: STA. 25+70.68 TO STA. 26+07.68 (BK. W. APPR.)
STA. 26+76.27 (BK. E. APPR.) TO STA. 27+13.27

PROPOSED LEGEND

- 1 HOT MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50, 1 1/2"
- 2 HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 7 1/2" (RECONSTRUCTION)
- 3 HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH (OVERLAY)
- 4 AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 5 HOT MIX ASPHALT SHOULDER, 6"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50, 1 1/2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4 1/2"
- 6 TRAFFIC BARRIER TERMINAL (TYPE AS NOTED ON THE PLANS)
- 7 TOPSOIL EXCAVATION AND PLACEMENT, 6"
- 8 SEEDING, CLASS 2 WITH EROSION CONTROL BLANKET, TEMPORARY SEEDING & FERTILIZER
- 9 STEEL RAILING, TYPE SM
- 10 PRESTRESSED PRECAST CONCRETE (PPC) DECK BEAMS, 27"
- 11 CONCRETE WEARING SURFACE, 5"

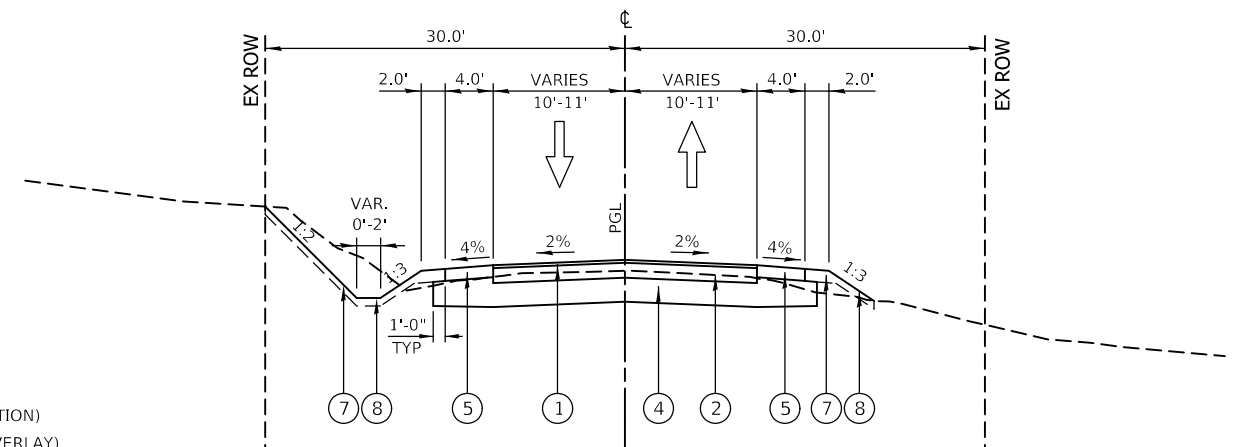
HOT-MIX ASPHALT REQUIREMENTS

MIXTURE USE	HMA SURFACE	HMA BINDER	HMA SHOULDER SURFACE	HMA SHOULDER BINDER
PG GRADE	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes = 50 GYR.	4.0% @ Ndes = 50 GYR.	4.0% @ Ndes = 50 GYR.	4.0% @ Ndes = 50 GYR.
MIXTURE COMPOSITION (GRADATION)	IL 9.5FG	IL-19.0	IL 9.5FG	IL-19.0
FRICTION AGGREGATE	MIXTURE C		MIXTURE C	
DENSITY TEST METHOD	NUCLEAR/ CORES	NUCLEAR/ CORES	NUCLEAR/ CORES	NUCLEAR/ CORES
MIXTURE WEIGHT	112 LB/ SQ YD / IN	112 LB/ SQ YD / IN	112 LB/ SQ YD / IN	112 LB/ SQ YD / IN
QUALITY MANAGEMENT PROGRAM (QMP)	QA/QC	QA/QC	QA/QC	QA/QC
SUBLOT SIZE	N/A	N/A	N/A	N/A
LOCATION(S)	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT



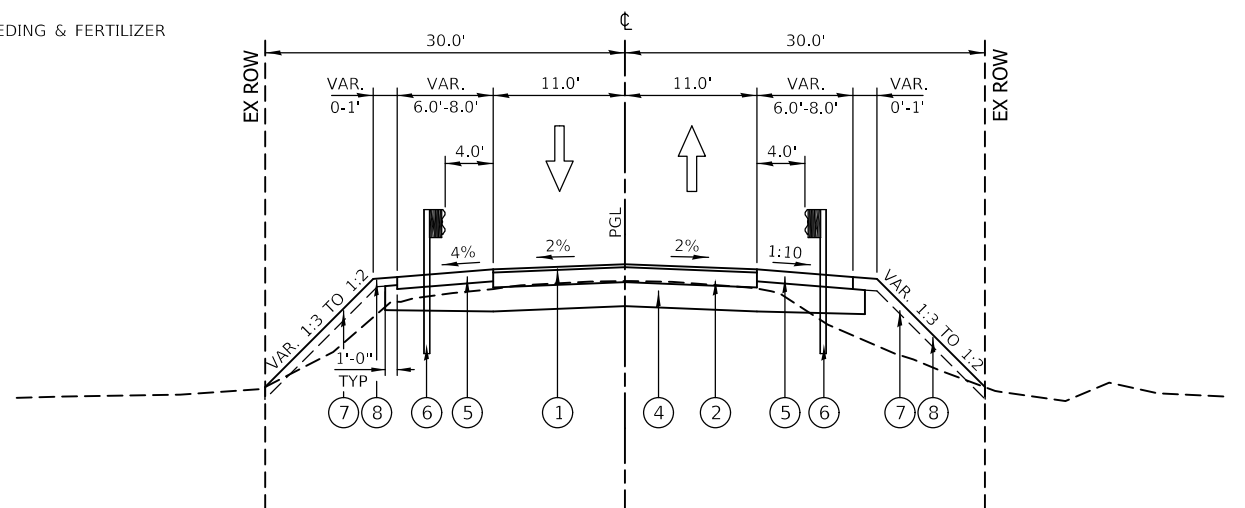
PROPOSED TYPICAL SECTION

STA 21+91 TO STA 23+38
STA 28+89 TO STA 29+96



PROPOSED TYPICAL SECTION

STA. 23+38 TO STA 25+45.68 (LT) STA 23+38 TO STA 25+11.18 (RT)
STA. 27+72.77 TO STA 28+89 (LT) STA 27+38.27 TO STA 28+89 (RT)



PROPOSED TYPICAL SECTION

STA. 25+57.68 TO STA. 26+07.68 (LT) STA. 25+45.18 TO STA. 26+07.68 (RT)
STA. 26+76.27 TO STA. 28+38.77 (LT) STA. 26+76.27 TO STA. 27+26.27 (RT)

USER NAME = kkołodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
	DRAWN - K. KOŁODZIEJCZYK	REVISED -
PLOT SCALE = 16.0000' / in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	5
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 87739

EARTHWORK SCHEDULE

STA TO STA	LENGTH	END AREAS				20200100		20400800		21101505		TOPSOIL TO BE PLACED	TOPSOIL BALANCE WASTE (+) SHORTAGE (-)
		EARTH EXCAVATION	EMBANKMENT (SUITABLE FILL)	TOPSOIL EXCAVATION	TOPSOIL PLACEMENT	EARTH EXCAVATION	EARTH EX ADJ (15 %)	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)	TOPSOIL EXCAVATION & PLACEMENT			
		(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD		
21+91.00 - 22+00.00	9.0	9.3	6.6	12.1	6.2	3.1	2.6	2.2	0.5	4.1	2.1	2.0	
22+00.00 - 22+50.00	50.0	9.1	6.3	12.4	6.3	15.7	13.4	16.0	-2.6	25.2	13.1	12.0	
22+50.00 - 23+00.00	50.0	7.9	11.0	14.8	7.9	13.8	11.7	31.0	-19.3	30.0	11.1	18.9	
23+00.00 - 23+38.00	38.0	7.0	22.5	17.6	4.1	23.1	19.6	24.9	-5.3	23.0	8.5	14.5	
23+38.00 - 23+50.00	12.0	25.8	12.9	15.1	8.0	11.2	9.5	5.8	3.7	7.0	3.7	3.2	
23+50.00 - 24+00.00	50.0	24.7	13.3	16.2	8.7	48.1	40.9	16.6	24.4	29.2	14.8	14.4	
24+00.00 - 24+50.00	50.0	27.3	4.6	15.3	7.3	50.9	43.3	8.6	34.7	28.5	12.8	15.7	
24+50.00 - 25+00.00	50.0	27.7	4.7	15.5	6.5	47.9	40.7	9.4	31.3	26.9	11.2	15.6	
25+00.00 - 25+50.00	50.0	24.0	5.4	13.5	5.6	35.3	30.0	23.7	6.3	26.7	10.2	16.5	
25+50.00 - 26+00.00	50.0	14.1	20.2	15.3	5.4	16.9	14.4	59.9	-45.5	32.0	11.7	20.4	
26+00.00 - 26+07.00	7.0	4.2	44.5	19.3	7.2	1.0	0.9	12.9	-12.1	5.1	1.9	3.2	
26+07.00 - 26+76.00		3.8	55.3	20.1	7.8	BRIDGE (SEE STRUCTURE EXCAVATION)							
26+76.00 - 27+00.00	24.0	4.1	54.3	20.0	7.8	2.3	1.9	52.0	-50.1	18.0	7.1	11.0	
27+00.00 - 27+50.00	50.0	1.0	62.7	20.6	8.1	4.8	4.1	100.2	-96.1	38.1	15.6	22.5	
27+50.00 - 28+00.00	50.0	4.2	45.5	20.5	8.7	13.1	11.2	80.9	-69.8	37.4	17.0	20.4	
28+00.00 - 28+50.00	50.0	10.0	41.9	19.9	9.7	25.0	21.3	58.2	-37.0	35.0	13.2	21.8	
28+50.00 - 28+89.00	39.0	17.0	21.0	17.9	4.6	28.6	24.3	33.1	-8.8	25.9	10.5	15.4	
28+89.00 - 29+00.00	11.0	22.6	24.8	18.0	10.0	5.6	4.7	9.3	-4.5	7.4	4.1	3.3	
29+00.00 - 29+50.00	50.0	4.8	20.8	18.2	10.0	10.6	9.1	26.1	-17.1	25.4	12.9	12.5	
29+50.00 - 29+96.00	46.0	6.7	7.4	9.2	3.9	12.9	10.9	8.8	2.2	14.0	5.5	8.4	
TOTALS		8.4	2.9	7.2	2.6	370.0	314.5	579.6	-265.1	438.7	187.1	251.6	

NOTES:

- EARTH EXCAVATION, STOCKPILE (IF REQUIRED) AND SUBSEQUENT PLACEMENT (WHEN APPLICABLE) SHALL ONLY BE MEASURED AND PAID FOR ONCE, NOT EACH TRANSPORT. ALL STOCKPILES TO BE APPROVED OF BY ENGINEER.
- EXISTING TOPSOIL EXCAVATION SHALL BE MEASURED IN PLACE AND PAID PER CUBIC YARD AS "TOPSOIL EXCAVATION AND PLACEMENT". EXISTING TOPSOIL IS ASSUMED TO BE SUITABLE FOR PROPOSED TOPSOIL. AN ASSUMED DEPTH OF 6" WAS USED TO CALCULATE EXISTING TOPSOIL.
- TOPSOIL STRIPPED IN EXCESS OF THAT REQUIRED FOR THE CONTRACT, SHALL BE REMOVED PER ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND WILL BE INCLUDED IN THE COST OF THE INITIAL "TOPSOIL EXCAVATION AND PLACEMENT".

PAVEMENT SCHEDULE

STA TO STA	30300112	40600275	40600290	40603080	40604000	44000100	48203021
	AGGREGATE SUBGRADE IMPROVEMENT, 12"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, 1L-19, N50	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5FG, MIX "C", N50	PAVEMENT REMOVAL	HOT-MIX ASPHALT SHOULDER, 6"
	(SQ YD)	(POUND)	(POUND)	(TON)	(TON)	(SQ YD)	(SQ YD)
21+91.00 - 23+38.00	163.3	367.5	58.8	45.7	27.4		130.7
28+38.00 - 26+07.68	998.9	2247.4	360.8	273.3	54.7	587.7	302.2
26+76.27 - 28 + 89	796.1	1791.2	285.6	214.0	42.8	474.5	251.5
28 + 89 - 29 + 96	118.9	267.5	42.8	33.3	20.0		95.1
TOTAL	2077.1	4673.6	748.0	566.3	144.9	1062.2	779.5
ADJUSTED	2078	4680	748	567	145	1063	780

EROSION CONTROL SCHEDULE

STA TO STA	LENGTH	LEFT OR RIGHT	AREA	25100630	28000250	28000305	28000400	28000510
				EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET FILTERS
				(SQ FT)	(SQ YD)	(POUND)	(FOOT)	(FOOT)
21+91.00 - 29+96.00	805.0	LEFT	10725.0	1191.7	147.7		816.0	
21+91.00 - 29+96.00	805.0	RIGHT	10941.9	1215.8	150.7		819.0	
22+65.00		LEFT						1.0
23+40.00		LEFT				20.0		
25+35.00		LEFT				20.0		
28+60.00		RIGHT				30.0		
TOTAL				2407.4	298.4	70.0	1635.0	1.0
ADJUSTED				2408	300	70.0	1635	1

RESTORATION SCHEDULE

STA TO STA	LENGTH	OFFSET	AREA	25000200	25000400	25000500	25000600
				SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
				(SQ FT)	(ACRE)	(POUND)	(POUND)
21+91.00 - 29+96.00	805.0	LT	9687.3	0.22	20.0	20.0	20.0
21+91.00 - 29+96.00	805.0	RT	10446.8	0.24	21.6	21.6	21.6
TOTAL			0.46	41.6	41.6	41.6	
ADJUSTED			0.50	45	45	45	

USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT SCALE = 20:0.0000'"/ in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 3/1/2021	DATE - 02-17-2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**QUANTITY SCHEDULES
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	6
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

CONTROL POINTS

POINT #1	LOCATION	NORTHING	EASTING
1	STA 21+85.92 OFF. 10.08' LT	1877450.2140	901979.5950
2	STA 25+88.52 OFF. 15.95' LT	1877460.2600	902382.1110
3	STA 26+69.45 OFF. 35.01' RT	1877410.1400	902463.5680
4	STA 30+43.48 OFF. 9.11' RT	1877439.9210	902837.3080

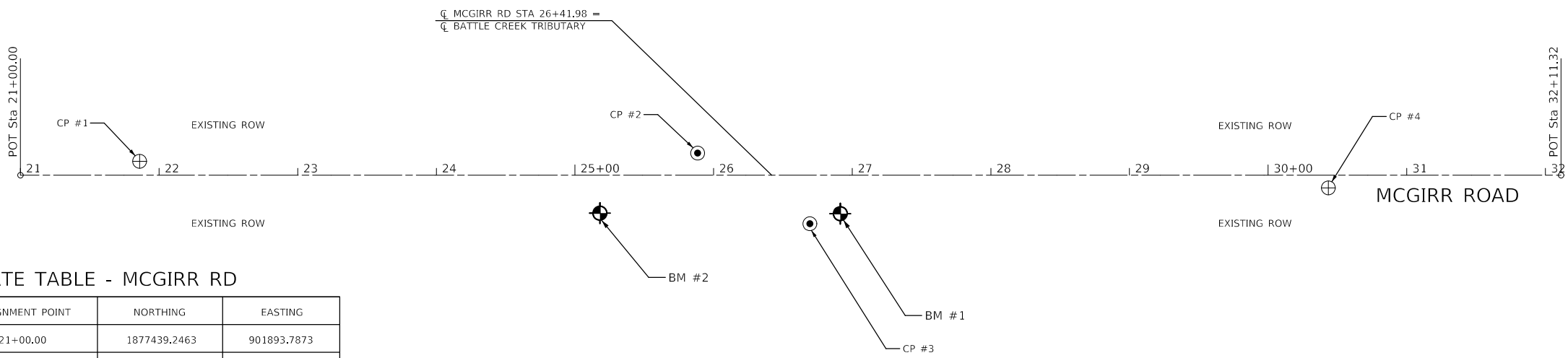
BENCHMARK LIST

- BM #1 : STA 26+91.39 27.73' RT
EL. 770.49 - SET RAILROAD SPIKE IN POWER POLE
- BM #2 : STA 25+17.97 27.4' RT
EL. 774.99 - SET RAILROAD SPIKE IN POWER POLE



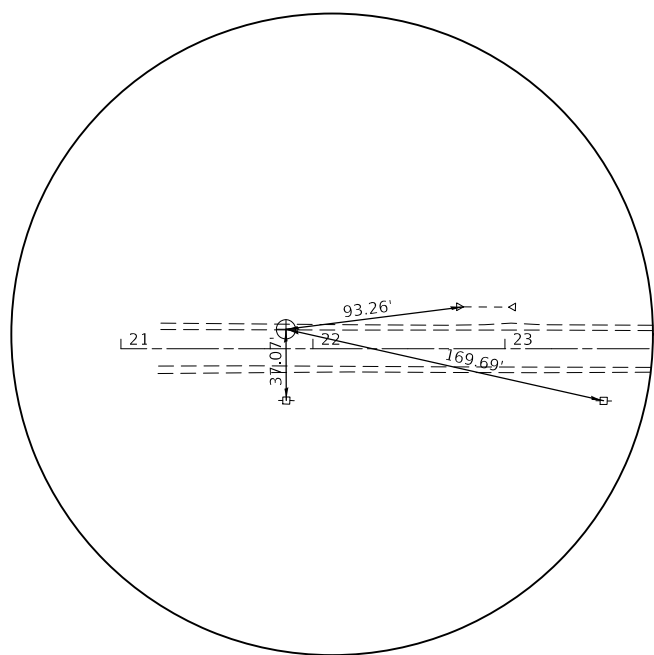
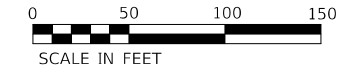
LEGEND

- PK NAIL
- IRON PIPE WITH CAP
- BENCHMARK

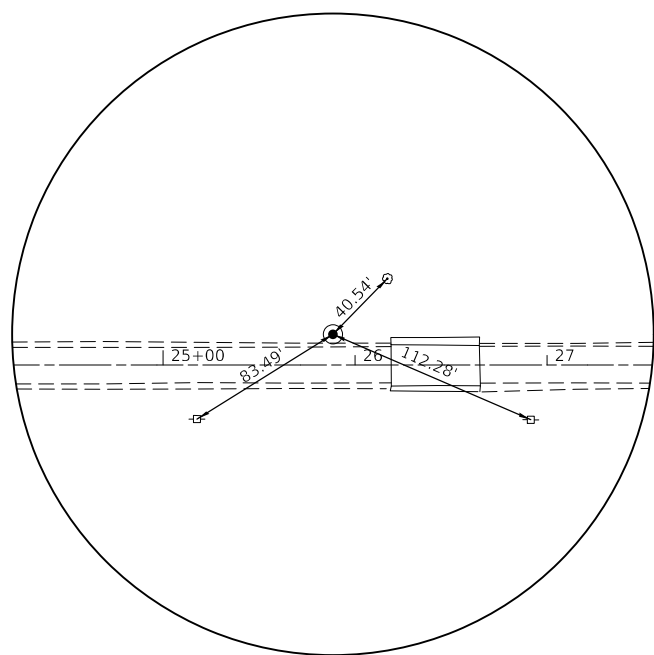


COORDINATE TABLE - MCGIRR RD

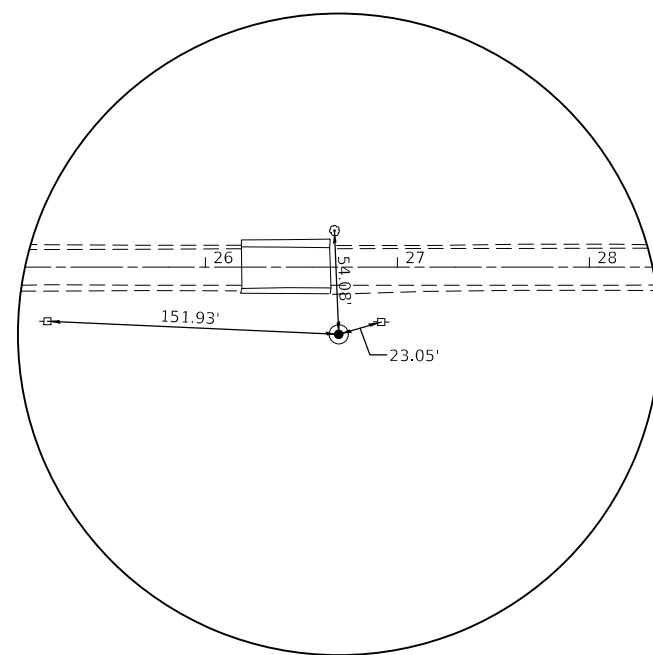
LOCATION	ALIGNMENT POINT	NORTHING	EASTING
POT 1	21+00.00	1877439.2463	901893.7873
BEGIN RECONSTRUCTION	21+91.00	1877440.1900	901984.7823
END RECONSTRUCTION	29+96.00	1877448.5376	902789.7390
PT 2	32+11.32	1877450.7704	903005.0518



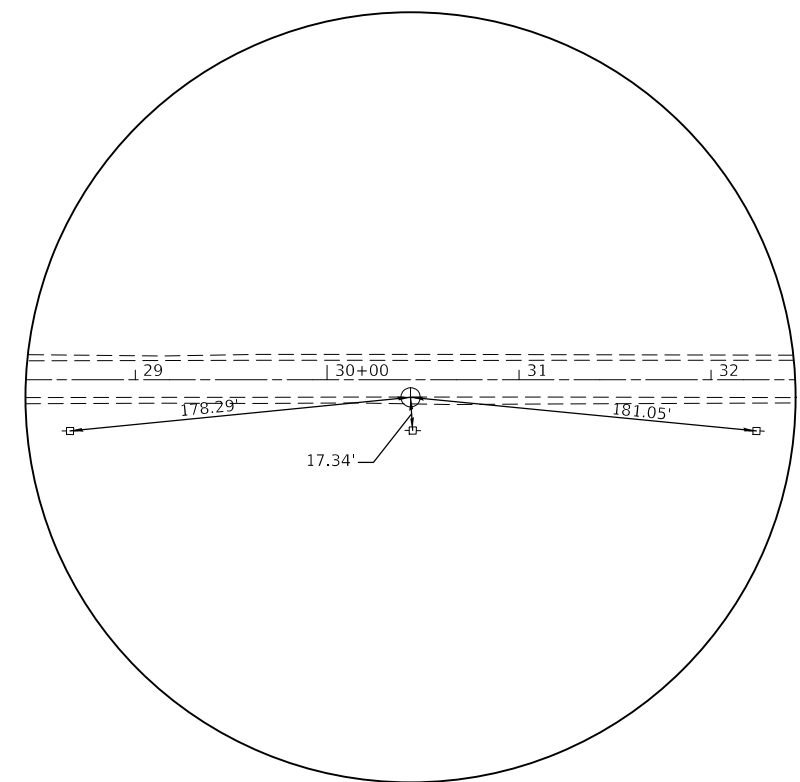
CP #1



CP #2



CP #3



CP #4

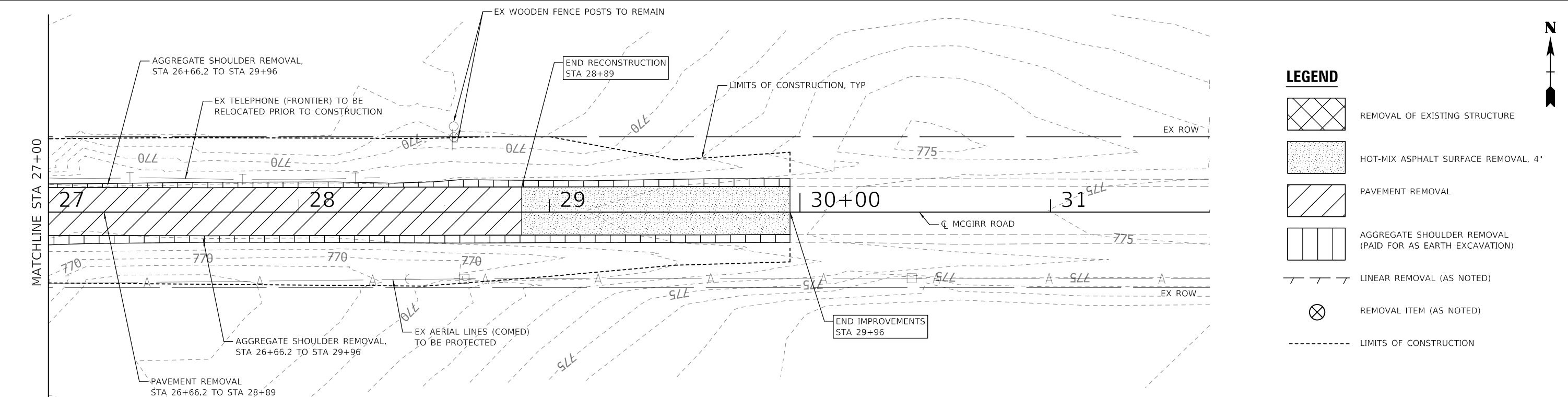
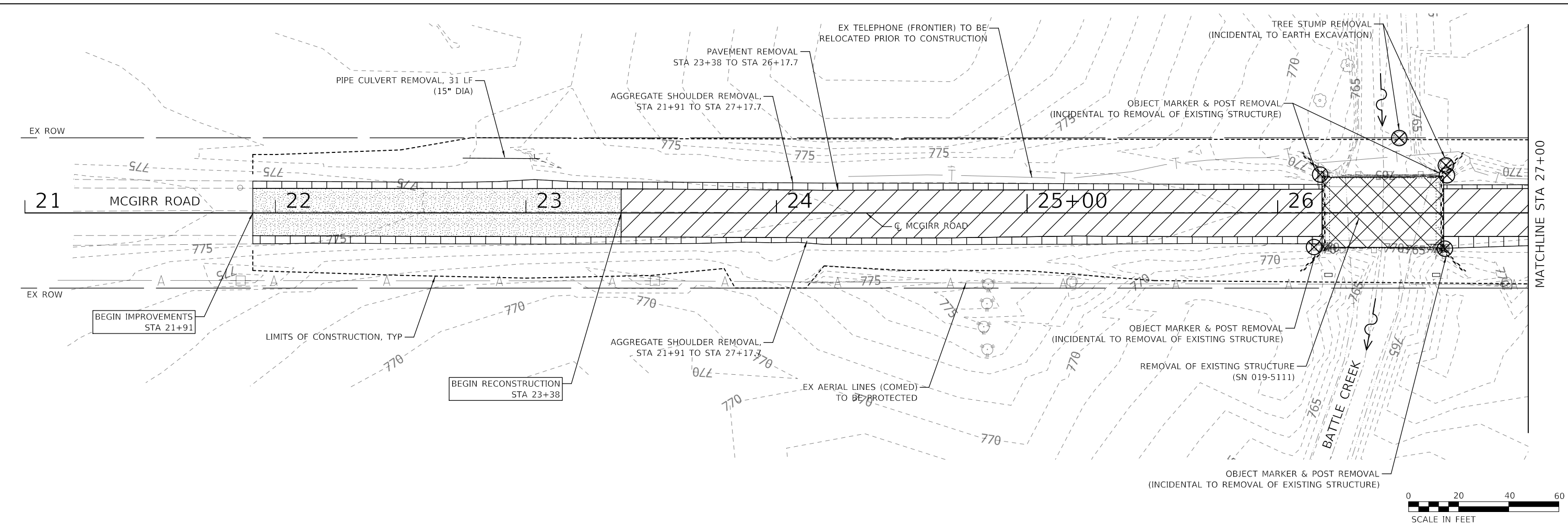
USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
DRAWN - K. KOLODZIEJCZYK	REVISIONS	
PLOT SCALE = 100.0000' / in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





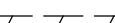

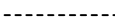
**ALIGNMENT, BENCHMARKS & TIES
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

SCALE: SHEET 1 OF 1 SHEETS STA. 21+00 TO STA. 32+11

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	7
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				



LEGEND

-  REMOVAL OF EXISTING STRUCTURE
-  HOT-MIX ASPHALT SURFACE REMOVAL, 4"
-  PAVEMENT REMOVAL
-  AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)
-  LINEAR REMOVAL (AS NOTED)
-  REMOVAL ITEM (AS NOTED)
-  LIMITS OF CONSTRUCTION

NOTES:
1. REMOVAL OF EXISTING STEEL RAILING, SHEET PILING AND OBJECT MARKER ASSEMBLY IS INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURE.

USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 02-17-2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-121119-01-BR	DEKALB	39	8
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

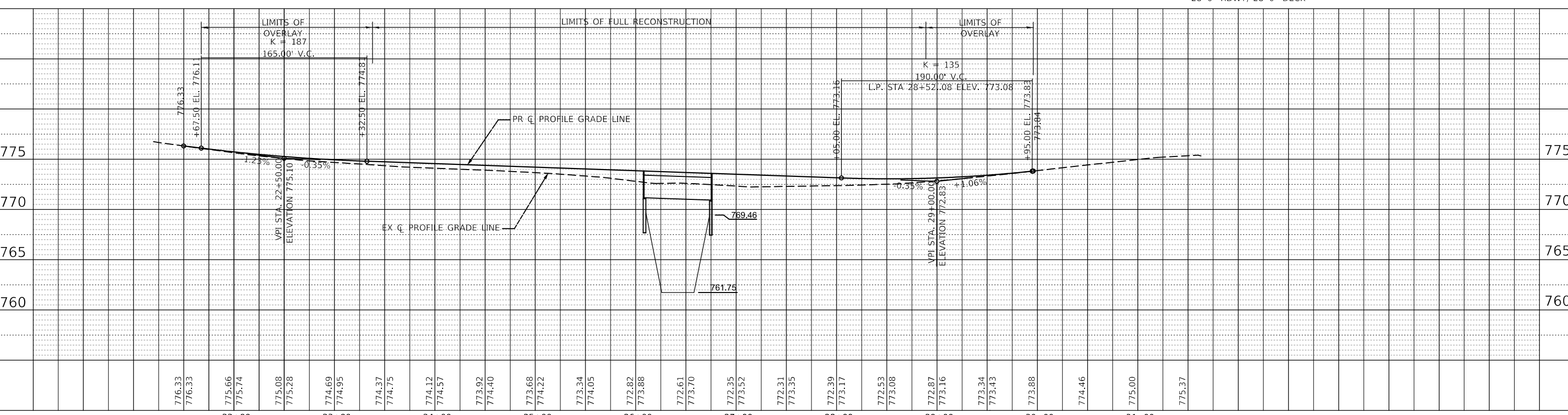
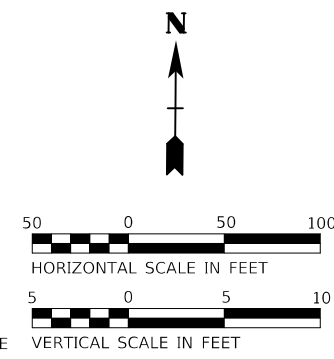
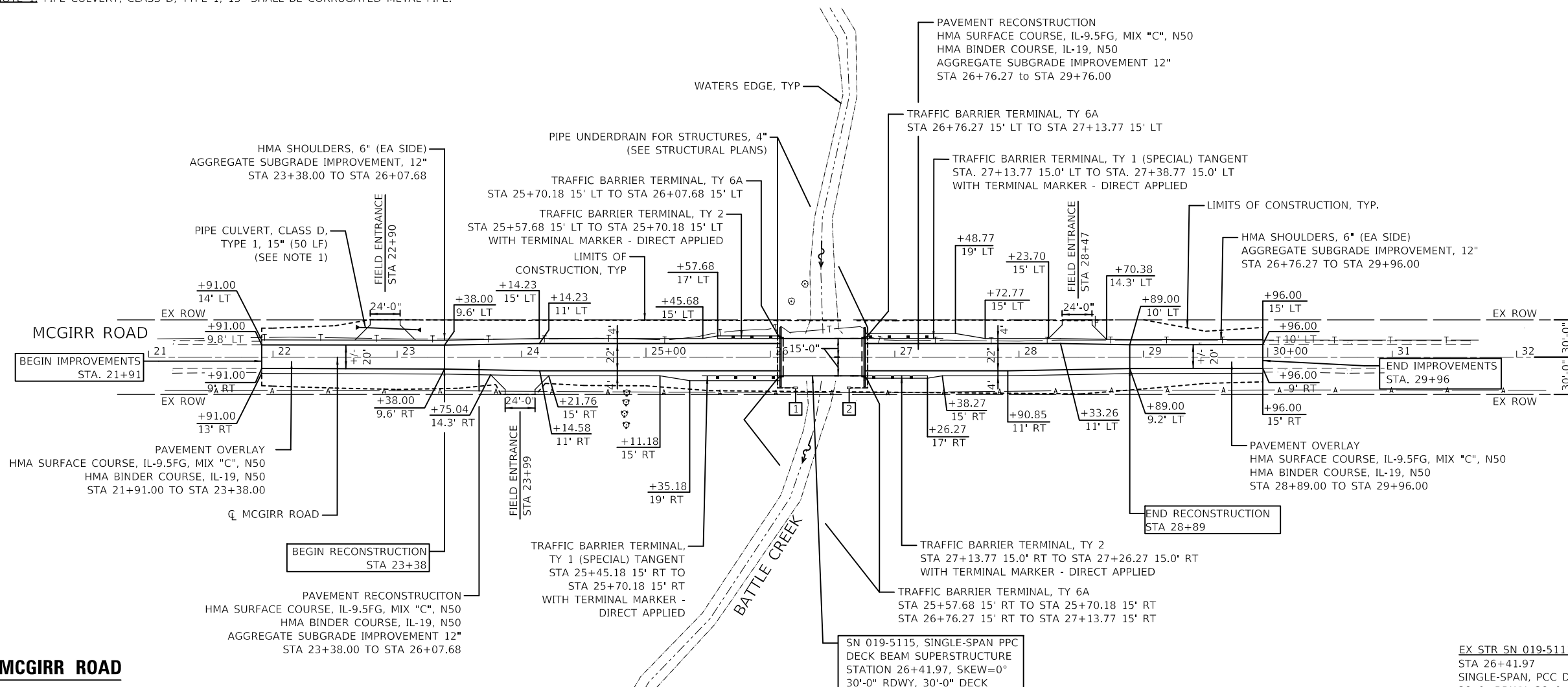
NOTE 1: PIPE CULVERT, CLASS D, TYPE 1, 15" SHALL BE CORRUGATED METAL PIPE.

STRUCTURE TABLE

- 1 CONCRETE HEADWALL FOR P DRAIN
STA 26+21.8, 24.8' RT
ELEV 767.0 (AT END)
- 2 CONCRETE HEADWALL FOR P DRAIN
STA 26+61.8, 24.8' RT
ELEV 767.0 (AT END)

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	



USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 02-17-2021	REVISED -

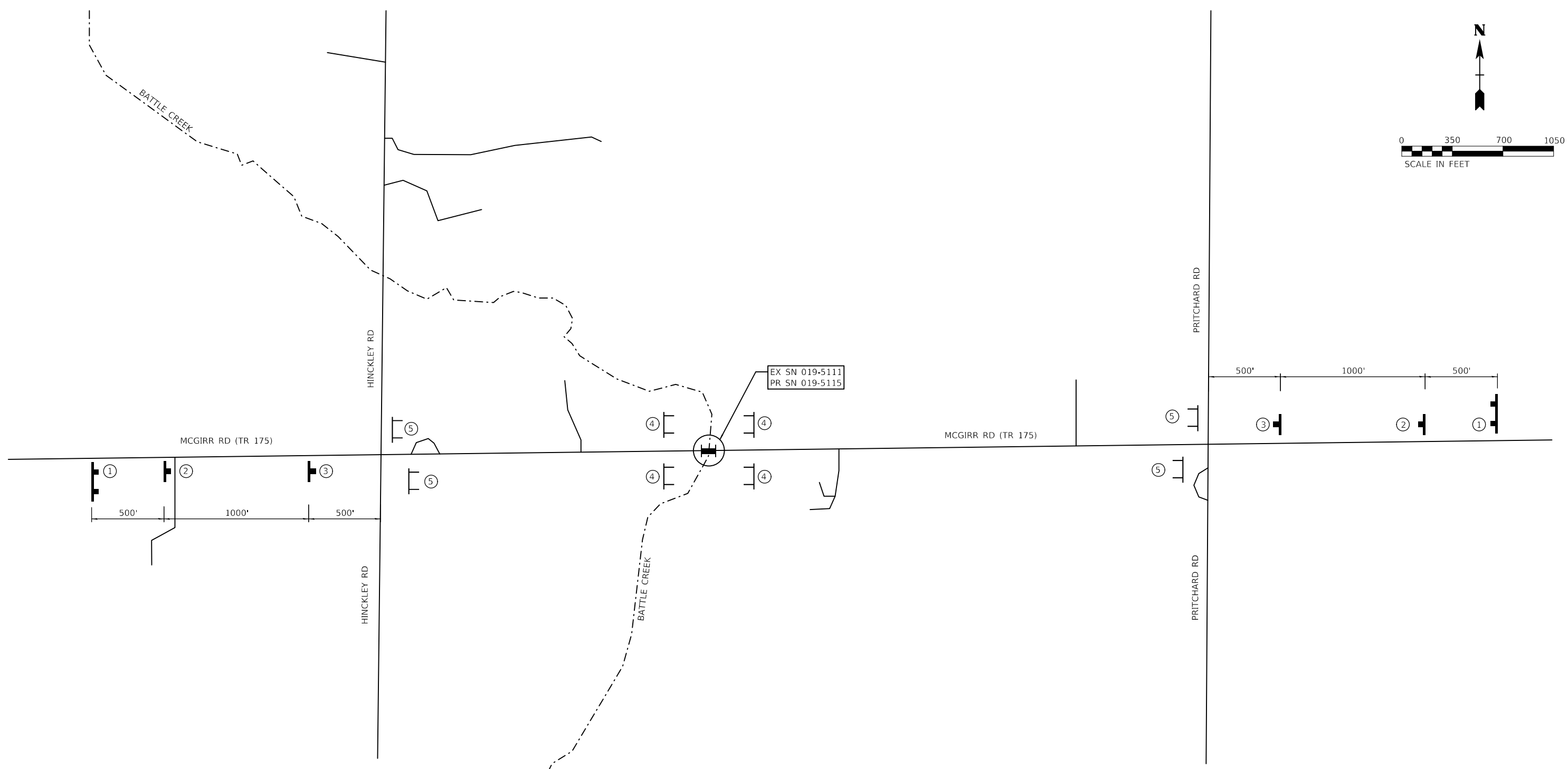
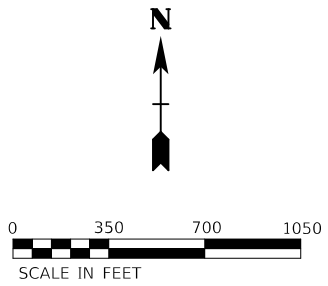
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	9
CONTRACT NO. 87739				

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 21+50 TO STA. 31+50

ILLINOIS FED. AID PROJECT



LEGEND

①		②		③		④		⑤							
	IDOT D3 STANDARD 720-10 (BY OTHERS)		W20-3 48" X 48"		W20-3 48" X 48"		R11-2 48" X 30"		R11-4 48" X 30"		TYPE III BARRICADES WITH 2 FLASHING LIGHTS EACH HIGHWAY STANDARD 701901		SIGN WITH DOUBLE POST		SIGN WITH SINGLE POST

NOTES

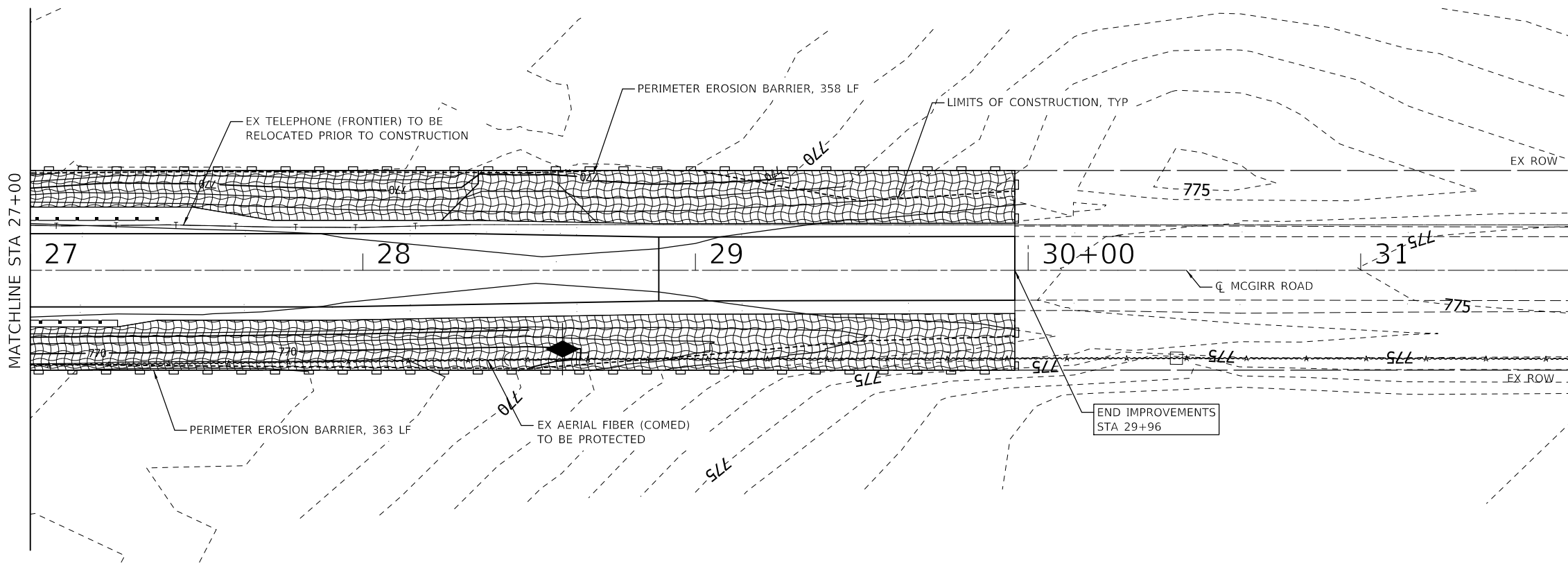
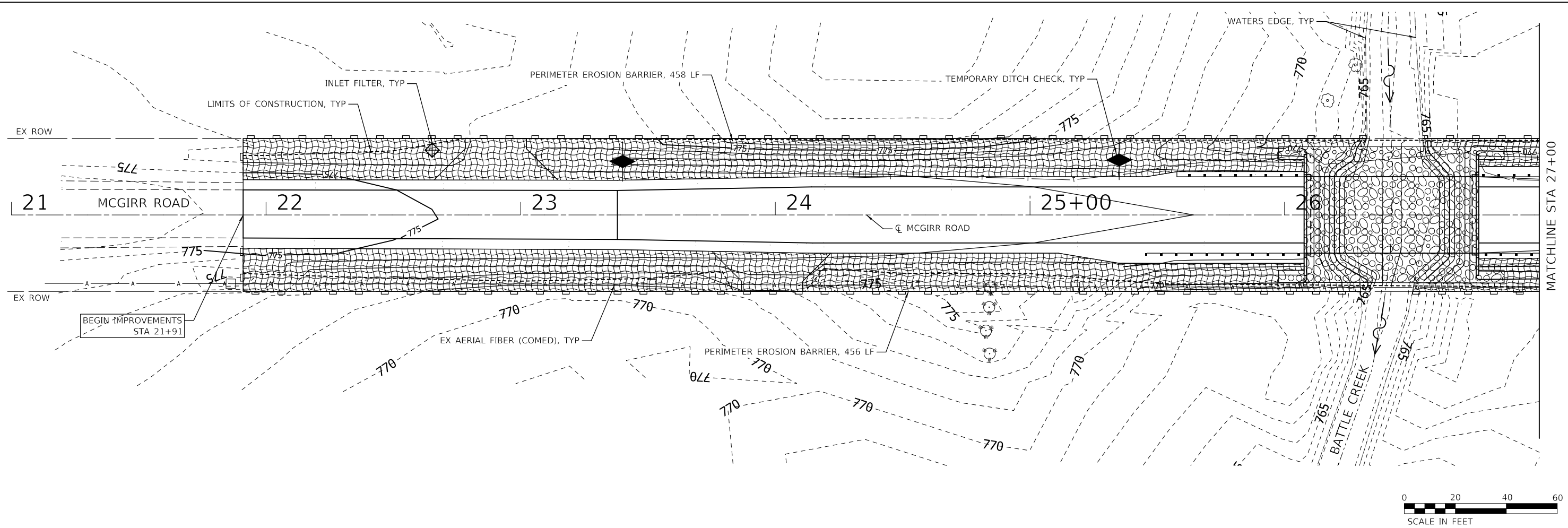
- SEE THE APPLICABLE STANDARDS FOR USE OF FLASHING BEACON LIGHTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY SIGNS SUPPLIED BY OTHERS AND DAMAGED BY THE CONTRACTOR'S OR SUBCONTRACTOR'S WORK FORCE DURING CONSTRUCTION OPERATIONS.
- STAGGER TYPE III BARRICADES BY 50 FEET FOR SIGN NO. 5 FOR LOCAL TRAFFIC.

USER NAME = kkołodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
PLOT SCALE = 700.0000' / in.	DRAWN - K. KOŁODZIEJCZYK	REVISED -
PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 02-17-2021	REVISED -








STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN	
TR 175 (MCGIRR RD) OVER BATTLE CREEK	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	10
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				



LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4 (SEE STRUCTURAL PLANS)
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET FILTER
-  LIMITS OF CONSTRUCTION

USER NAME = kkołodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
DRAWN - K. KOŁODZIEJCZYK	CHECKED - M. LANGE	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 02-17-2021	REVISED -
PLOT DATE = 2/17/2021		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-121119-01-BR	DEKALB	39	11
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE RESIDENT ENGINEER MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
2. A COPY OF THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON SITE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS OF THE REQUIREMENTS TO IMPLEMENT AND MAINTAIN THE SWPPP AND ALL PERMIT CONDITIONS AS REQUIRED BY THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) ILR10 PERMIT SET FOR BY THE EPA, THE U.S. ARMY CORPS OF ENGINEERING JOINT 404 PERMIT AND ALL REQUIREMENTS SET FORTH BY DEKALB COUNTY, THE DEKALB COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE STATE OF ILLINOIS.
4. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER, THE DEKALB SWCD OR THE COUNTY IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE ILLINOIS URBAN MANUAL.
5. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES AND MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE, REPAIR AND INSPECTION OF EROSION CONTROL MEASURES.
6. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24-HRS AFTER A RAIN EVENT GREATER THAN 1/8".
7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRACTICES ARE WORKING PROPERLY AND DETERMINING IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY, THE CONTRACTOR WILL IMPLEMENT THE PRACTICE IN A TIMELY MANNER.
8. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED WITH BLANKET FOLLOWING COMPLETION OF SOIL DISTURBING ACTIVITIES.
9. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED AT THE END OF EACH DAY'S OPERATION OR MORE FREQUENTLY AS REQUIRED BY THE ENGINEER.
10. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND PERMIT CONDITIONS FROM THE U.S. ARMY CORPS OF ENGINEERS, THE DCSWCD, THE IEPA AND DEKALB COUNTY.
11. THE COST OF ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE, ACCESS AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN CONTRACT UNIT PRICE FOR THE WORK WHICH IT IS REQUIRED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
12. ALL WORK IN THE WATERWAY SHALL BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS.
13. STOCKPILES OF SOIL AND OTHER MATERIALS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
14. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE). DEWATERING DIRECTLY TO STREAMS, FIELD TILES OR STORM WATER STRUCTURES IS STRICTLY PROHIBITED.
15. DEWATERING MEASURES SHALL COMPLY WITH THE ILLINOIS URBAN MANUAL. DURING DEWATERING, THE WATER SHALL BE FILTERED TO REMOVE SEDIMENT PRIOR TO DISCHARGE TO THE CREEK. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS OR OTHER APPROPRIATE METHODS. THE FILTRATION AREAS SHALL BE PLACED ON A STABILIZED AREA OR DISCHARGE TO AN ENERGY DISSIPATING SURFACE PRIOR TO BEING RE-INTRODUCED TO DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THE DISCHARGE FROM THE DEWATERING DEVICE SHALL NOT CAUSE EROSION. ANY TREATMENT REQUIRED IS THE CONTRACTOR'S RESPONSIBILITY AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE COST OF DEWATERING SHALL BE INCLUDED IN THE COST OF PAY ITEMS REQUIRING DEWATERING.

MAINTENANCE SCHEDULE

1. PERIMETER EROSION BARRIER - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL PERIMETER EROSION BARRIER WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE PERIMETER EROSION BARRIER FUNCTIONAL AS DESIGNED.
2. EROSION CONTROL BLANKET - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL EROSION BLANKET WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE EROSION BLANKET FUNCTIONAL AS DESIGNED.
3. INLET FILTERS - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL INLET FILTERS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE INLET FILTER FUNCTIONAL AS DESIGNED.
4. TEMPORARY DITCH CHECKS - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL DITCH CHECKS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE DITCH CHECKS FUNCTIONAL AS DESIGNED. REMOVE SEDIMENT FROM UPSTREAM SIDE OF DITCH CHECK WHEN SEDIMENT HAS REACHED 50% OF STRUCTURE HEIGHT. THE CENTER OF THE DITCH CHECK SHALL ALSO BE INSPECTED TO ENSURE THE CENTER OF THE DEVICE IS LOWER THAN THE SIDES.

NPDES ILR10 PERMIT COMPLIANCE

1. THIS PROJECT DISTURBS 1.11 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) ILR10 STORMWATER PERMIT IS REQUIRED SINCE THERE IS MORE THAN 1 ACRE OF DISTURBANCE OF TOTAL LAND AREA.
2. THE CONTRACTOR IS THE PROJECT INSPECTOR RESPONSIBLE FOR MONITORING SESC MEASURES AND SUBMITTING INSPECTION REPORTS TO THE IEPA TO MEET THE PERMIT CONDITIONS.

CERTIFICATIONS

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

ENGINEER: JENNIFER LOEWENSTEIN, PE, CFM, CPESC

02-17-2021

DATE

OWNER'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

OWNER: DEKALB COUNTY HIGHWAY DEPARTMENT

NATHAN SCHWARTZ, P.E. COUNTY ENGINEER 2/16/21
TITLE DATE

USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
DRAWN - K. KOLODZIEJCZYK	CHECKED - M. LANGE	REVISED -
PLOT SCALE = 20.0000' = 1" = 40'	DATE = 02-17-2021	REVISED -
PLOT DATE = 2/12/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

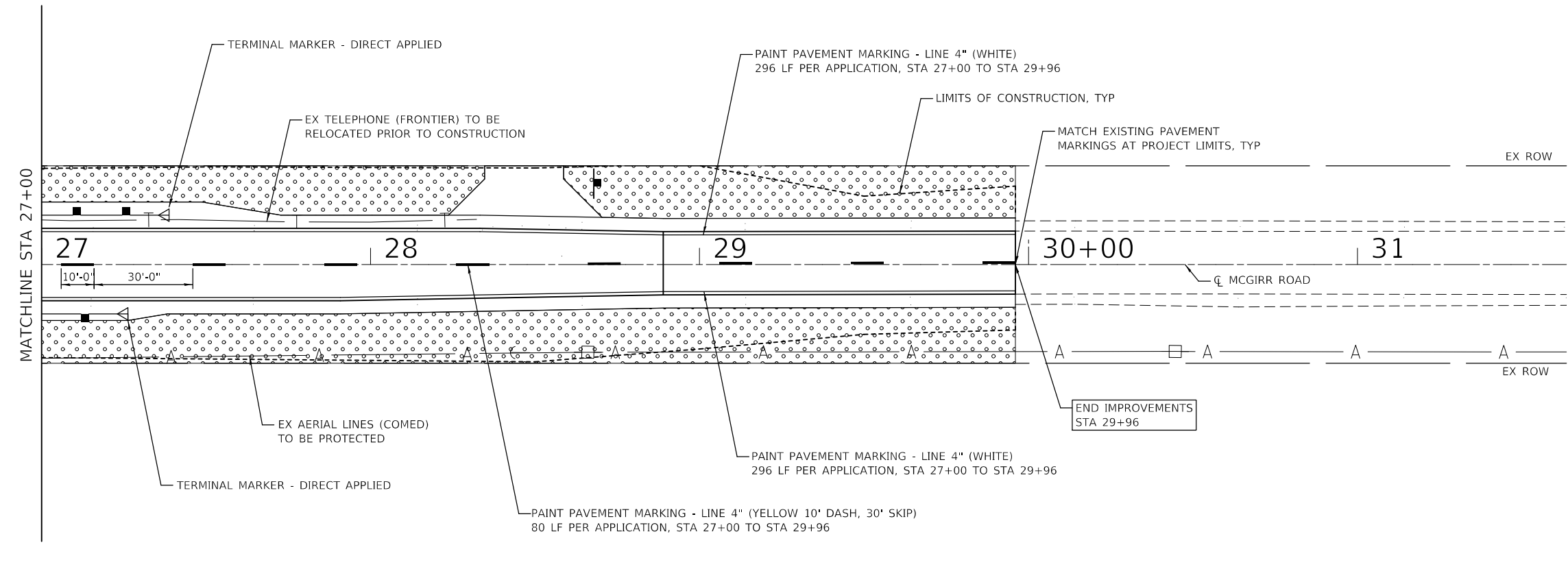
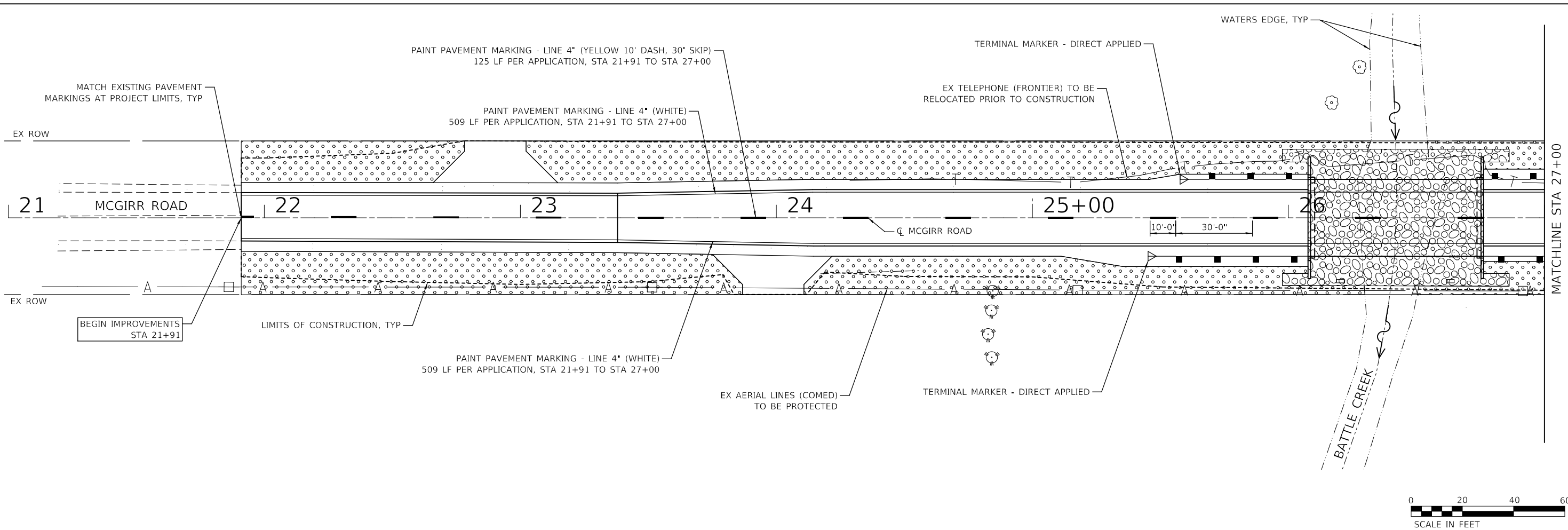
EROSION CONTROL NOTES
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	12
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				



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LEGEND

	SEEDING, CLASS 2 NITROGEN, PHOSPHORUS AND POTASSIUM FERTILIZER
	STONE RIPRAP, CLASS A4 (SEE STRUCTURAL PLANS)
	LIMITS OF CONSTRUCTION



USER NAME = kkołodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - K. KOŁODZIEJCZYK	REVISED -
PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 02-17-2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNAGE & LANDSCAPING PLAN
 TR 175 (MCGIRR RD) OVER BATTLE CREEK**

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	13
			CONTRACT NO. 87739	

ILLINOIS FED. AID PROJECT

Benchmark: Set Railroad spike in 1st utility pole east of the bridge on south side of McGirr Road. El. 770.49
 Set railroad spike in 1st utility pole west of the bridge on the south side of McGirr Road. El. 774.99

Existing Structure: Structure Number SN019-5111, McGirr Road was built in 1984 as the McGirr Road Bridge over Battle Creek, DeKalb County. The superstructure consists of 17-inch deep simply supported PPC deck beams with bituminous wearing surface. The structure length is 45'-0" and a 28'-0" out to out deck width. The superstructure is supported on exposed metal shell piles and concrete cap. Backwall and wingwalls consist sheet piling wall.

Traffic Control: All traffic will be detoured during construction.

Salvage: None

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)		
	W. Abut.	E. Abut.	Item 113
Q100	767.66	767.42	8
Q200	767.66	767.42	
Design	767.66	767.42	
Check	767.66	767.42	

WATERWAY INFORMATION

Drainage Area = 12.6 Square Miles Low Grade Elev. 773.33 @ Sta. 26+50									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	672	125.4	171.6	768.81	0.23	0.16	769.04	768.97
Design	30	910	134.0	177.8	769.20	0.30	0.19	769.50	769.39
Base	100	1170	141.7	186.1	769.55	0.43	0.27	769.98	769.82
Max. Calc.	500	1530	151.2	198.6	769.98	0.61	0.35	770.59	770.33

10-Yr. Velocity through Existing Structure = 1.74 f.p.s.
 10-Yr Velocity through Proposed Structure = 2.01 f.p.s.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.092g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.140g
 Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 f'c = 5,000 psi (Concrete Wearing Surface)
 fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNIT

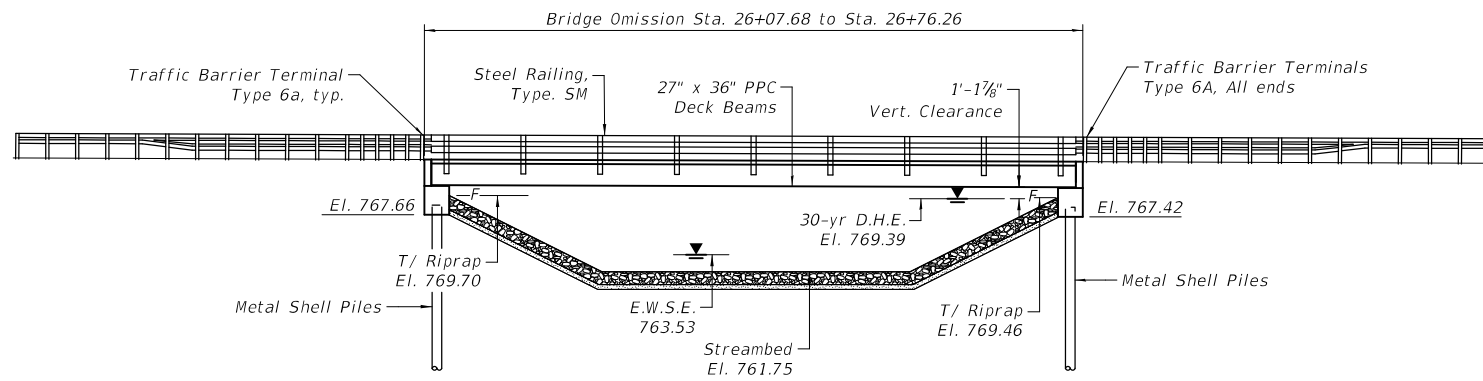
f'c = 6,000 psi
 f'ci = 5,000 psi
 fpu = 270,000 psi (1/2" low lax strands)
 fpbt = 201,960 psi (1/2" low lax strands)

LOADING HL-93

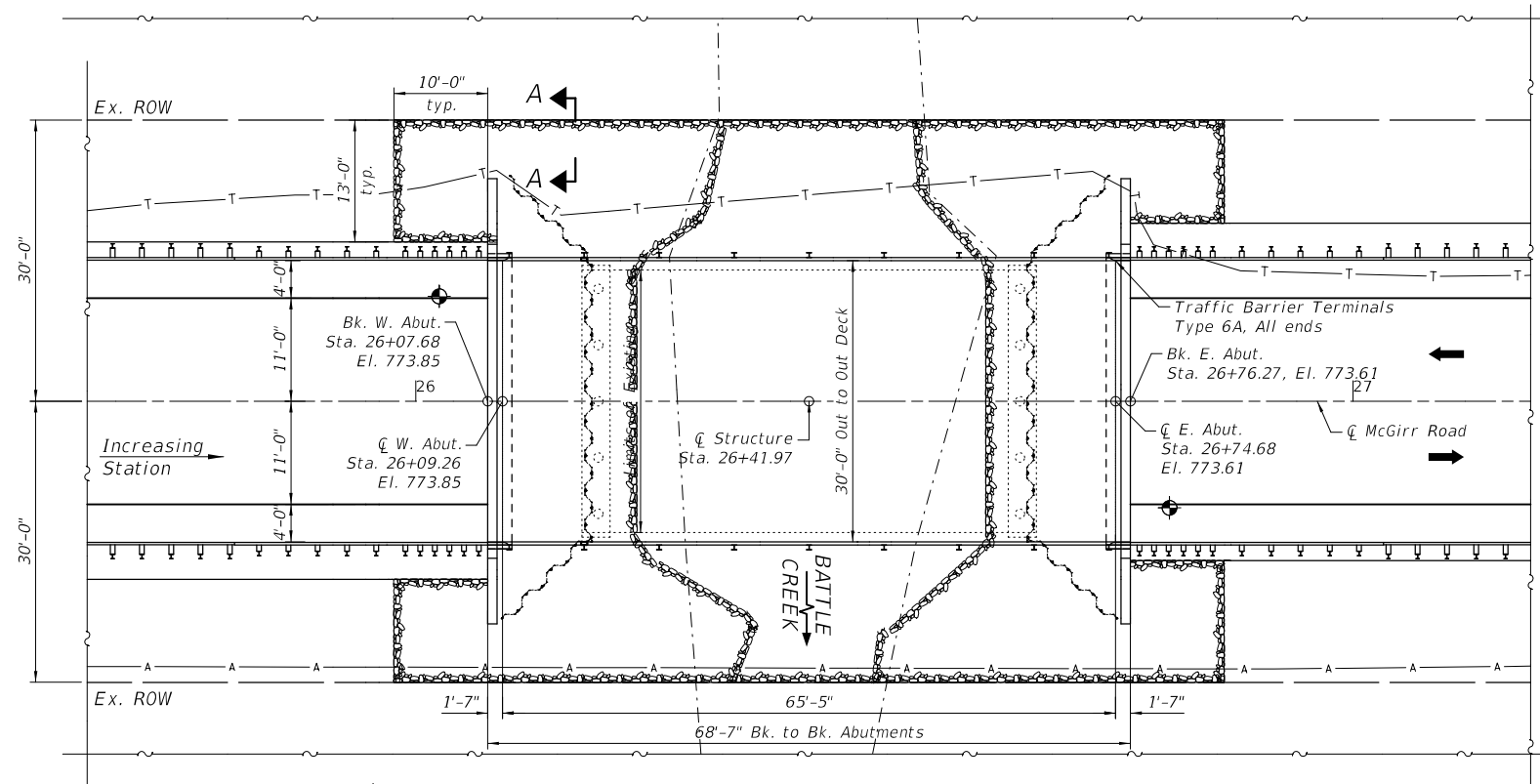
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



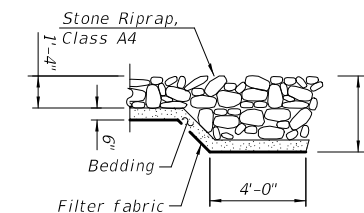
ELEVATION



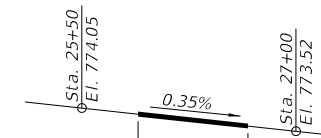
PLAN

LEGEND

- Soil Boring
- Ex. Aerial Line
- Ex. Telephone

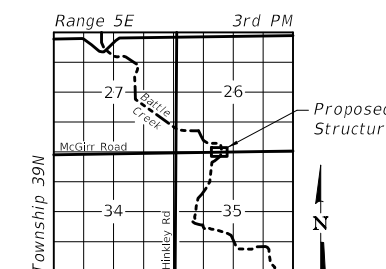


SECTION A-A

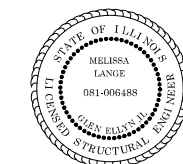


PROFILE GRADE

(Taken along ϕ McGirr Road)



LOCATION SKETCH



February 17th, 2021

Melissa F. Lange

MELISSA F. LANGE, S.E.
 ILLINOIS REG. STRUCTURAL ENGINEER NO. 081-006488
 EXPIRATION DATE 11-30-2022
 SHEETS 13 - 28

I certify to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with the requirements of the 2020 AASHTO LRFD Bridge Design Specifications.

**GENERAL PLAN & ELEVATION
 MCGIRR ROAD OVER BATTLE CREEK**

**SECTION 15-12119-01-BR
 STA. 26+41.97**

STRUCTURE NO. 019-5115

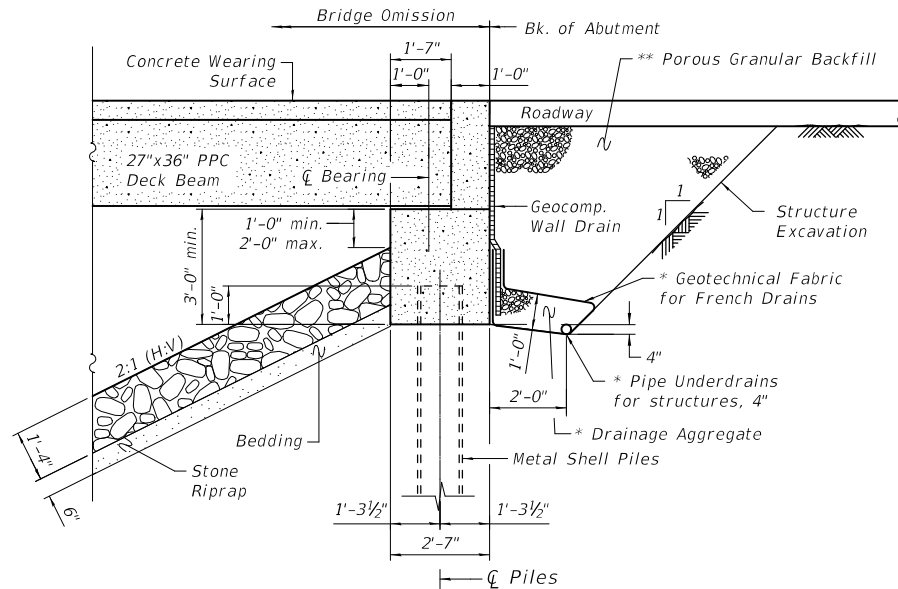
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 019-5115
 TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET S1 OF S16 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	14
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

MODEL Defaul
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 McGirr Rd\Bridg\Reps\Structure\CADD\SHREET\Structure\01_01_GRS.dwg



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

* Included in the cost of Pipe Underdrains for Structures, 4"
 ** Porous Granular Backfill material shall be CA-7.

INDEX OF SHEETS

- S1 General Plan & Elevation
- S2 General Data
- S3 Superstructure
- S4 Superstructure Details
- S5 Steel Railing Type SM with Conc. Wearing Surface
- S6 -S7 27" x 36 PPC Deck Beams
- S8 West Abutment
- S9 East Abutment
- S10 Abutment Details
- S11 Metal Shell Pile Details
- S12 Soil Borings I
- S13 Soil Borings II
- S14-S16 Existing Plans

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

BATTLE CREEK
 BUILT 2021 BY
 DEKALB COUNTY &
 PIERCE TOWNSHIP
 SEC. 15-12119-01-BR
 MCGIRR RD
 STA. 26+41.97
 STR. NO. 019-5115
 LOADING HL-93

NAME PLATE

See Std. 515001.
 Plate to be installed on SW wingwall.

TOTAL BILL OF MATERIAL

ITEM	UNIT	Super	Sub	Total
Channel Excavation	Cu. Yd.		125.6	125.6
Stone Riprap, Class A4	Sq. Yd.		504	504
Filter Fabric	Sq. Yd.		504	504
Porous Granular Backfill	Cu. Yd.		174.5	174.5
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		86.8	86.8
Concrete Structures	Cu. Yd.		31.7	31.7
Bridge Deck Grooving	Sq. Yd.	222		222
Protective Coat	Sq. Yd.	287		287
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,998		1,998
Reinforcement Bars, Epoxy Coated	Pound	2,930	4,100	7,030
Steel Railing, Type SM	Foot	138		138
Furnishing Metal Shell Piles 12" O x 0.250"	Foot		425	425
Driving Piles	Foot		425	425
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		56	56
Concrete Wearing Surface, 5"	Sq. Yd.	222		222
Pipe Underdrain for Structures, 4"	Foot		124	124

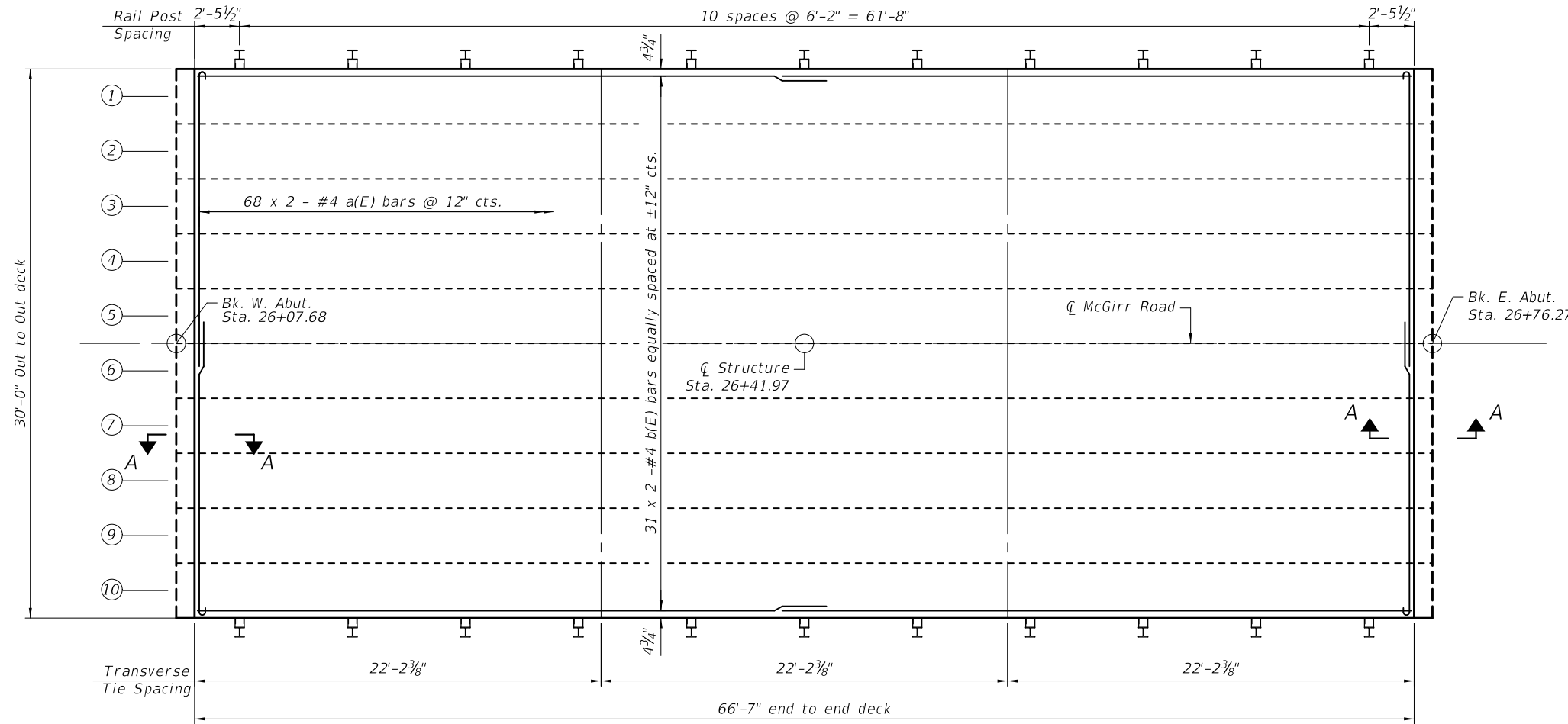
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	DRAWN - K. KOLODZIEJCZYK	REVISED -
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PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

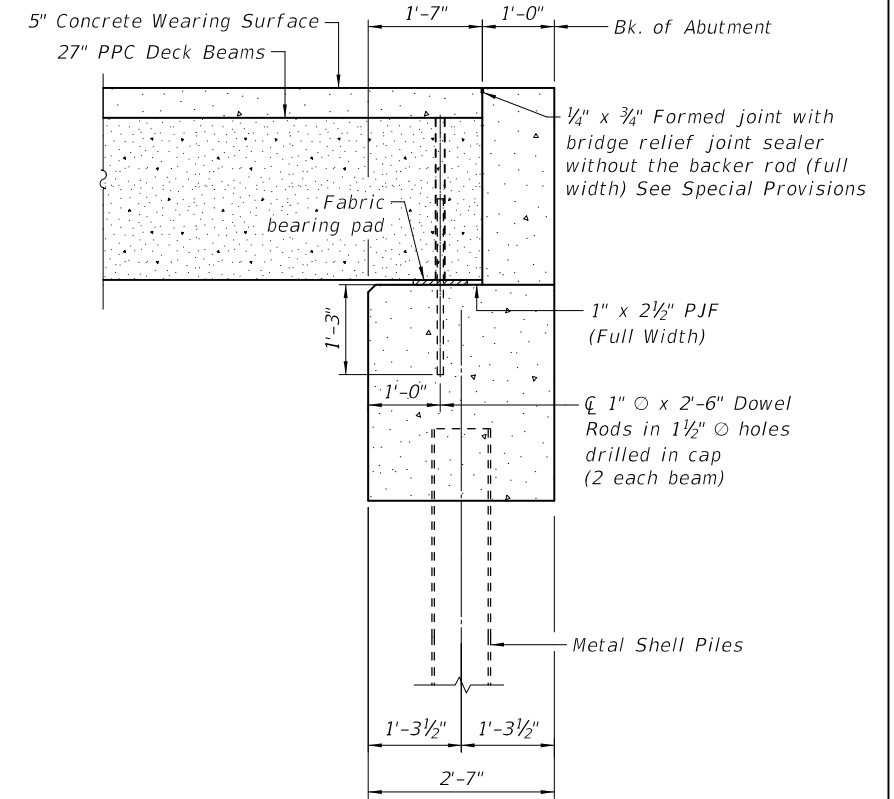
GENERAL DATA
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET 52 OF 516 SHEETS STA. TO STA.

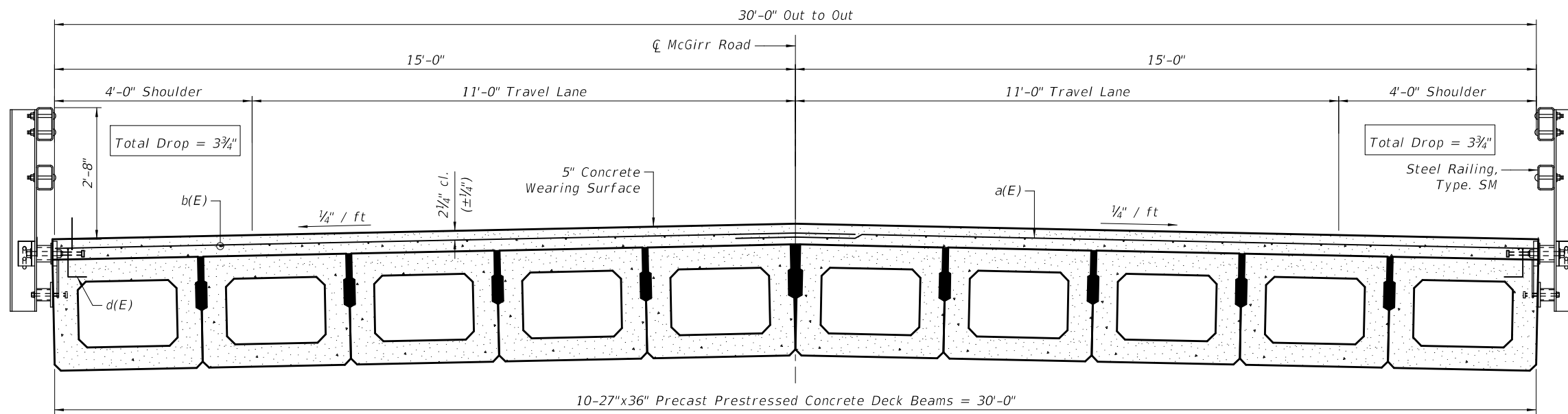
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	15
			CONTRACT NO. 87739	
		ILLINOIS	FED. AID PROJECT	



PLAN



SECTION A-A



CROSS SECTION

Min. Lap Splice
#4 - 2'-5"

Notes:
See sheet S4 for Superstructure Details and Bill of Material
Bars indicated thus 31 x 2-#4 etc. indicates 31 lines of bars with 2 lengths per line.
Concrete wearing surface shall be placed prior to casting the backwall.
See sheet S7 for bearing pad details

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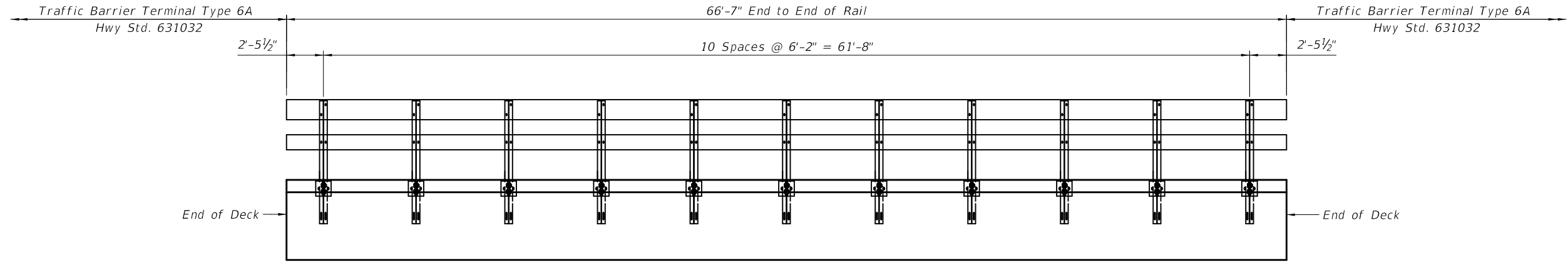
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PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

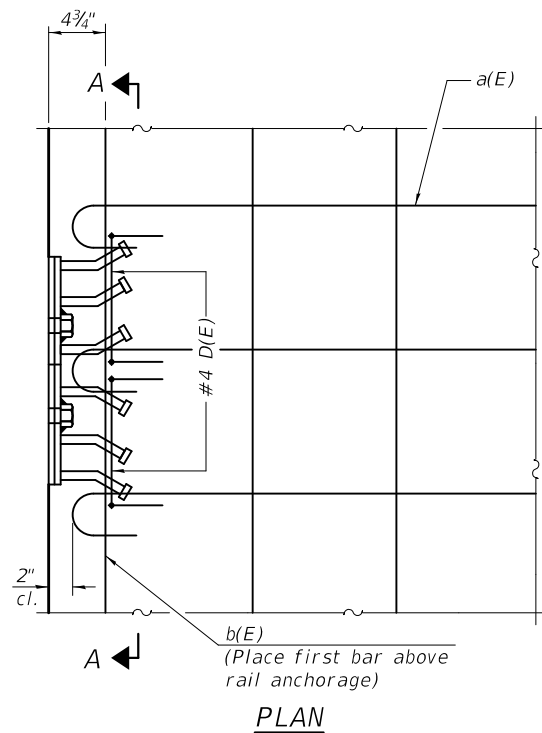
SUPERSTRUCTURE
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET 53 OF 516 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	16
			CONTRACT NO. 87739	
		ILLINOIS FED. AID PROJECT		

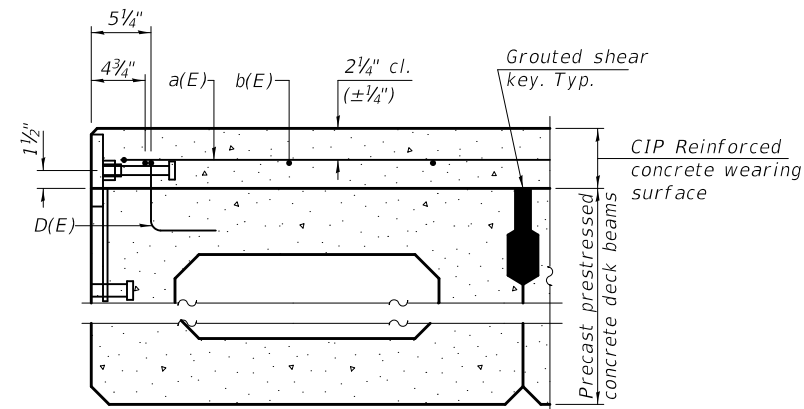


ELEVATION

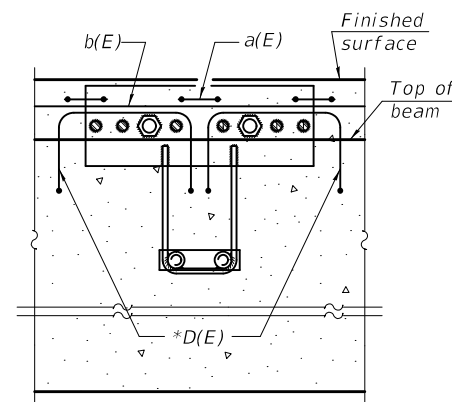


PLAN

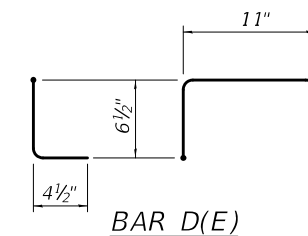
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

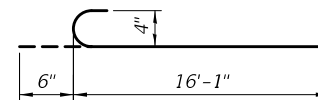


SECTION A-A

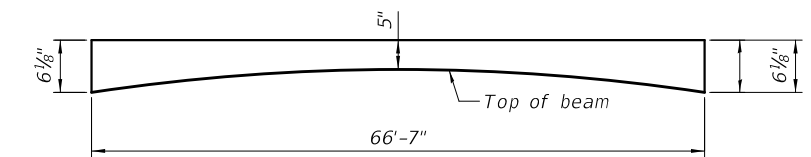


BAR D(E)

* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



BAR a(E)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	136	#4	16'-7"	C
b(E)	62	#4	34'-4"	—
Item		Unit	Quantity	
Reinforcement Bars, Epoxy Coated		Pound	2,930	
Concrete Wearing Surface, 5"		Sq. Yd.	222	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

SDF-DB1742-CWS-R34 1-1-2020

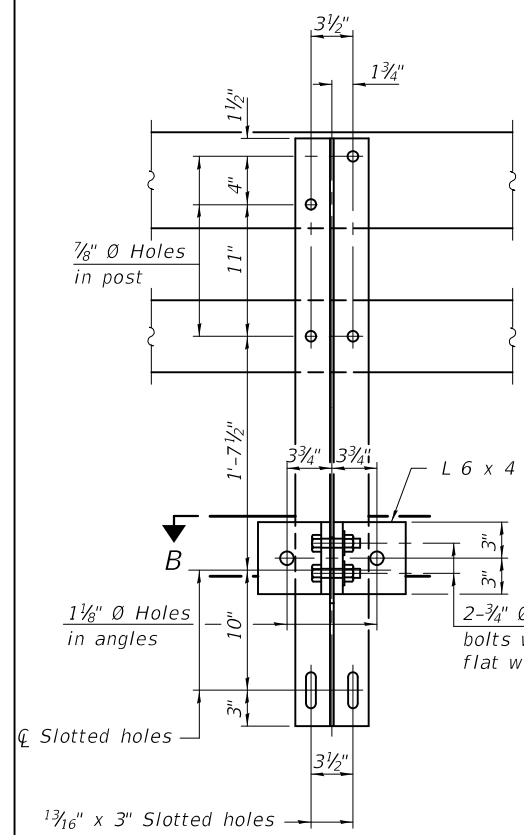
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PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

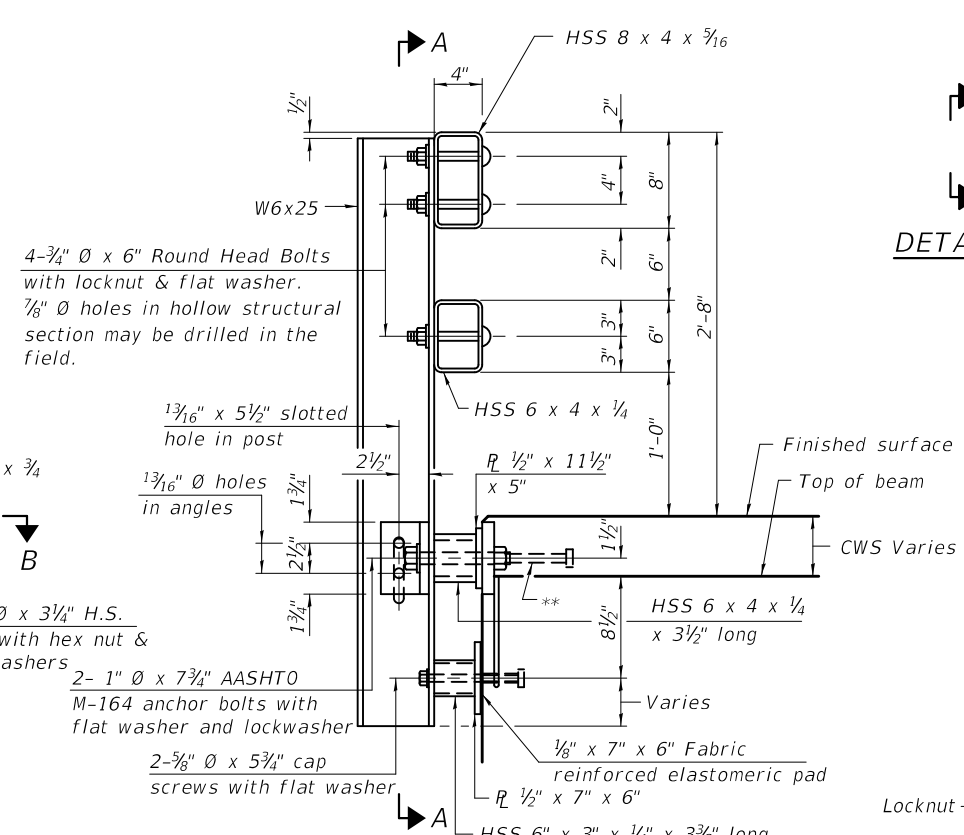
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET 54 OF 516 SHEETS STA. TO STA.

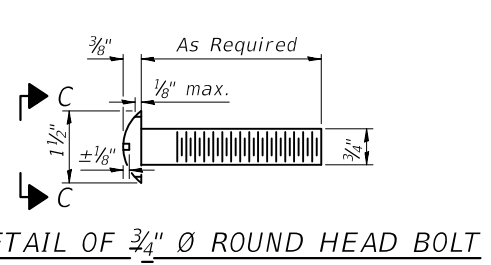
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-121119-01-BR	DEKALB	39	17
			CONTRACT NO. 87739	
ILLINOIS FED. AID PROJECT				



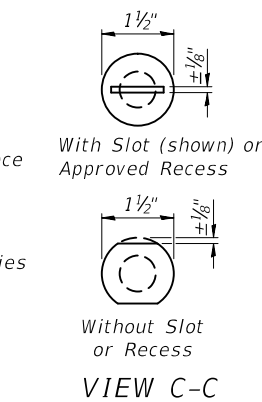
SECTION A-A



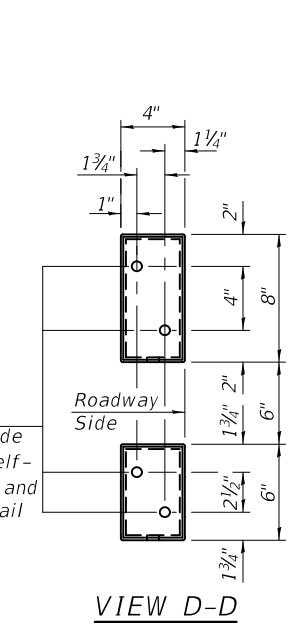
SECTION AT RAIL POST



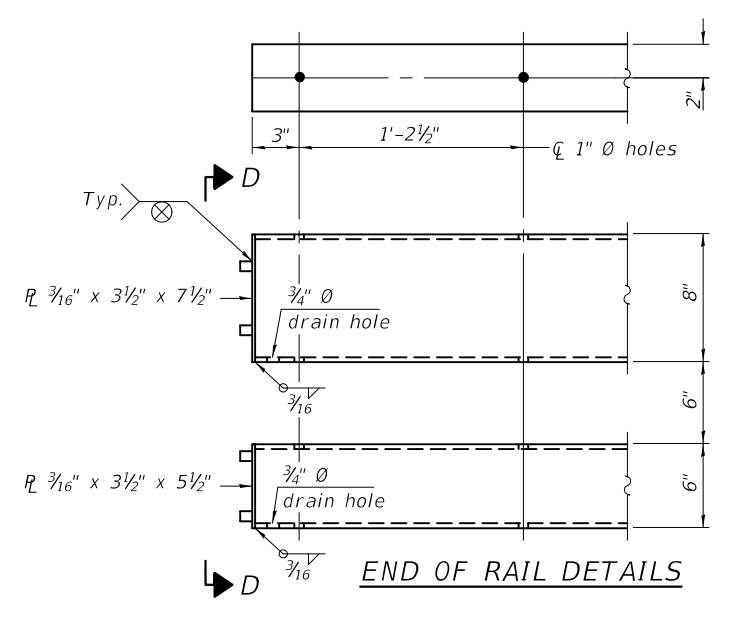
DETAIL OF 3/4" Ø ROUND HEAD BOLT



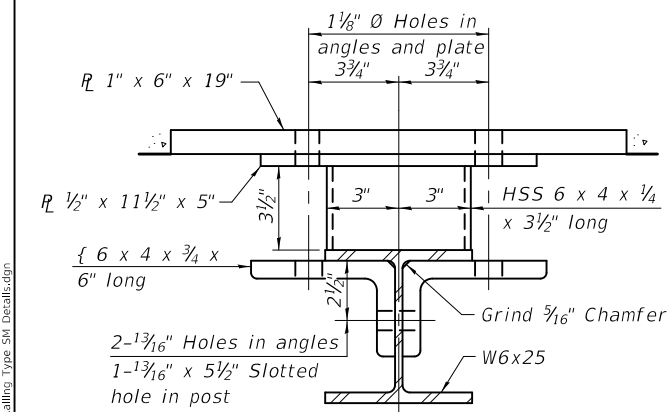
VIEW C-C



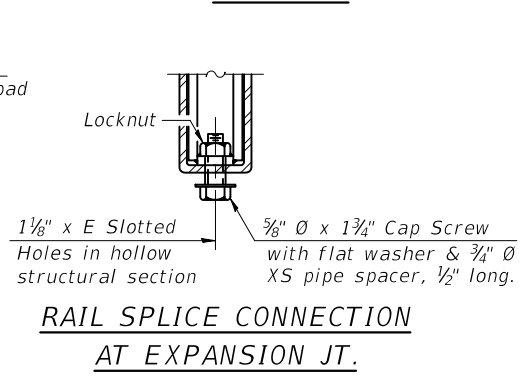
VIEW D-D



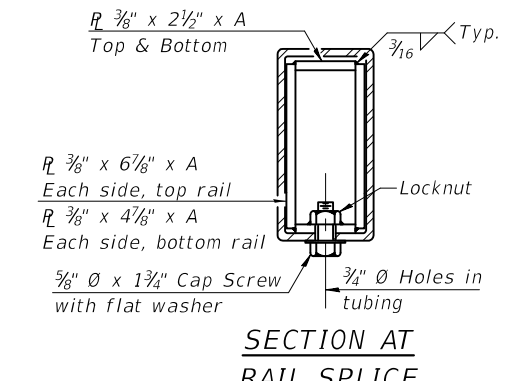
END OF RAIL DETAILS



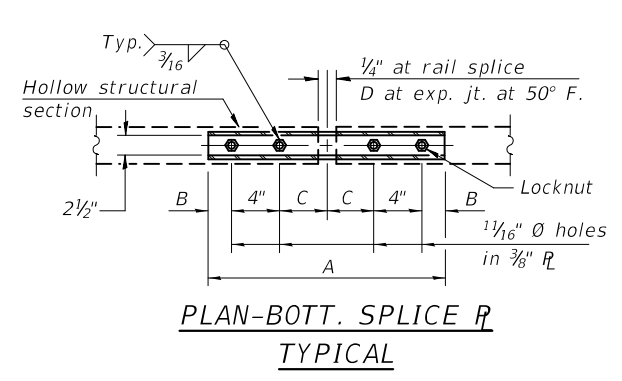
SECTION B-B



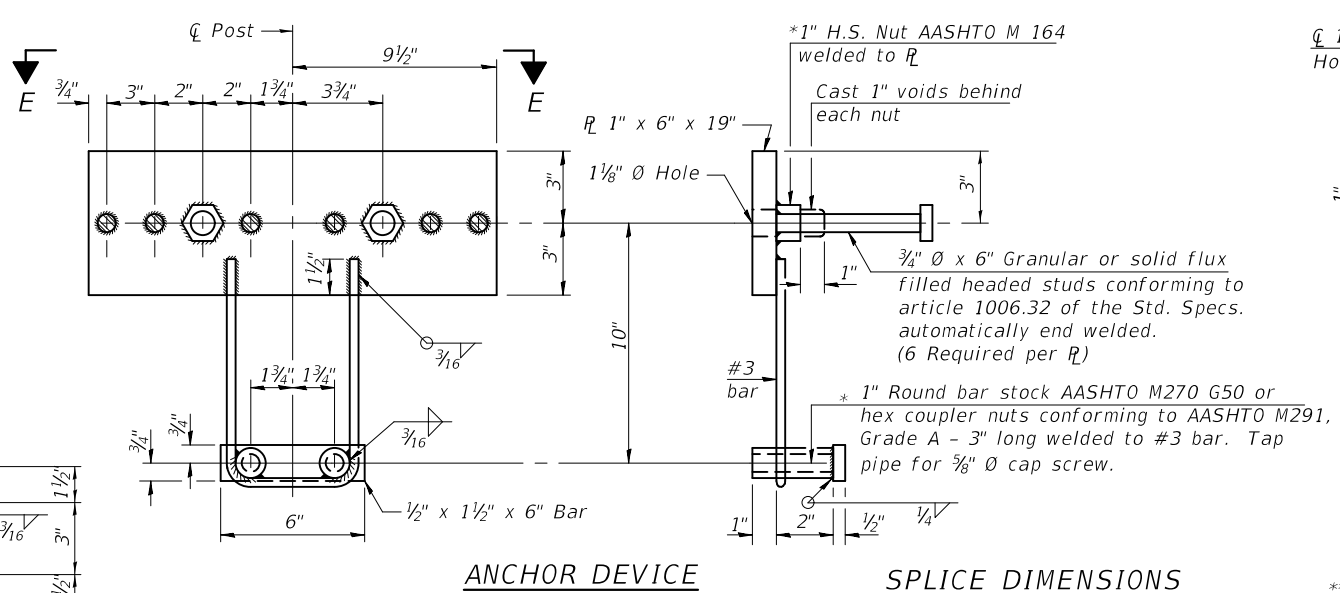
RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



ANCHOR DEVICE

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

Notes:
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans.
Cost included with Steel Railing, Type SM.
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	138

R-34CWS 2-17-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

USER NAME	DESIGNED	REVISION
= kkołodziejczyk	- K. KOŁODZIEJCZYK	-
	- K. KOŁODZIEJCZYK	-
	- M. LANGE	-
	-	-

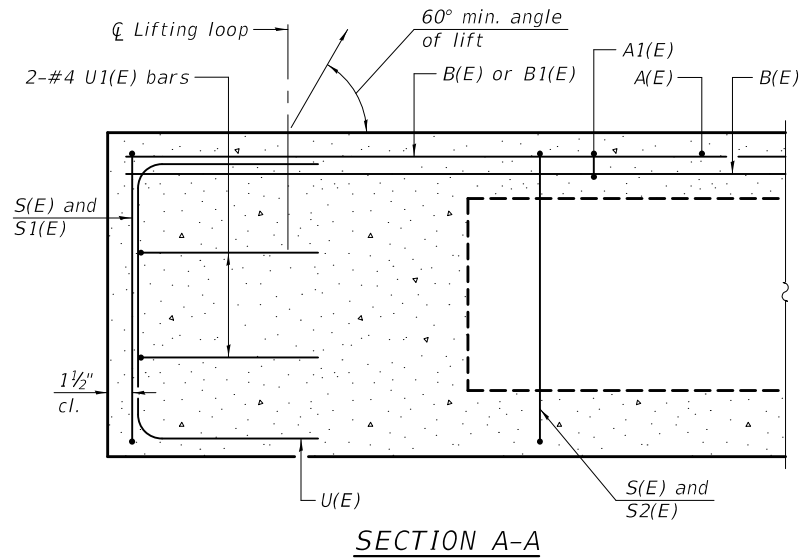
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONC. WEARING SURFACE
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

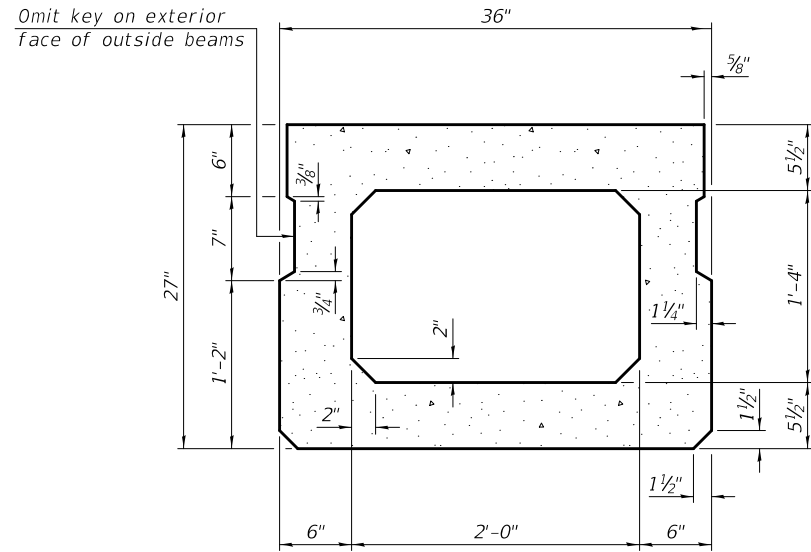
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	18

SCALE: N.T.S. SHEET 55 OF 516 SHEETS STA. TO STA.

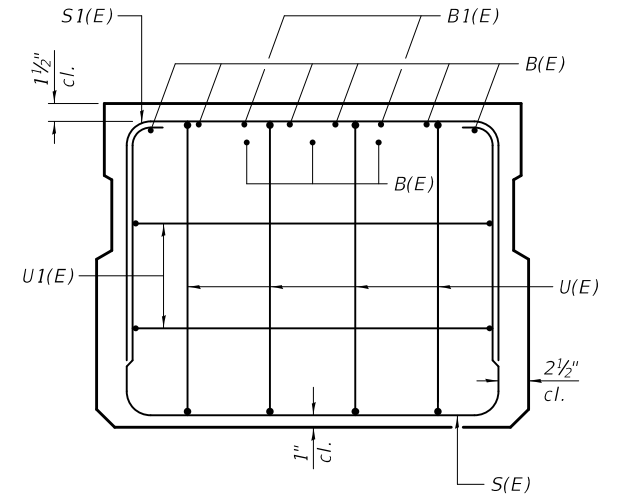
ILLINOIS FED. AID PROJECT



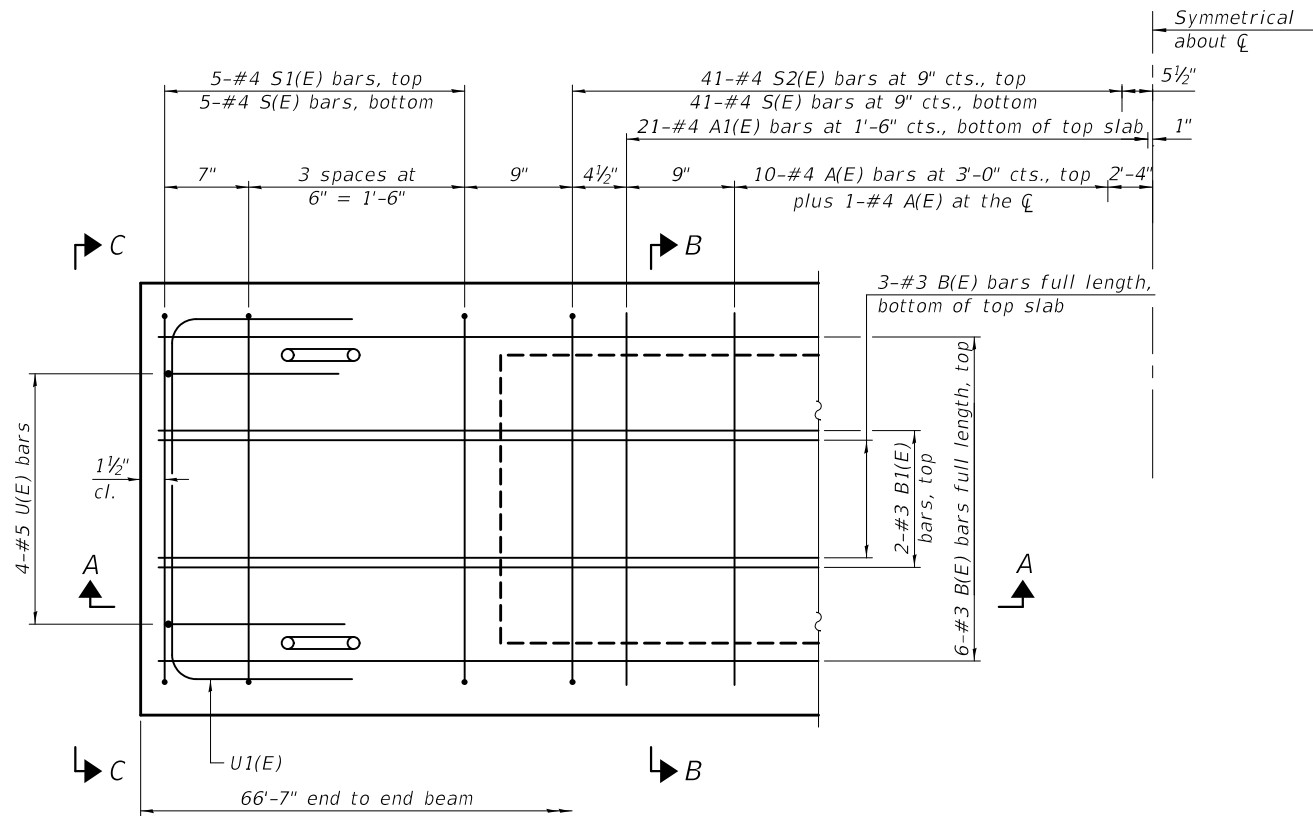
SECTION A-A



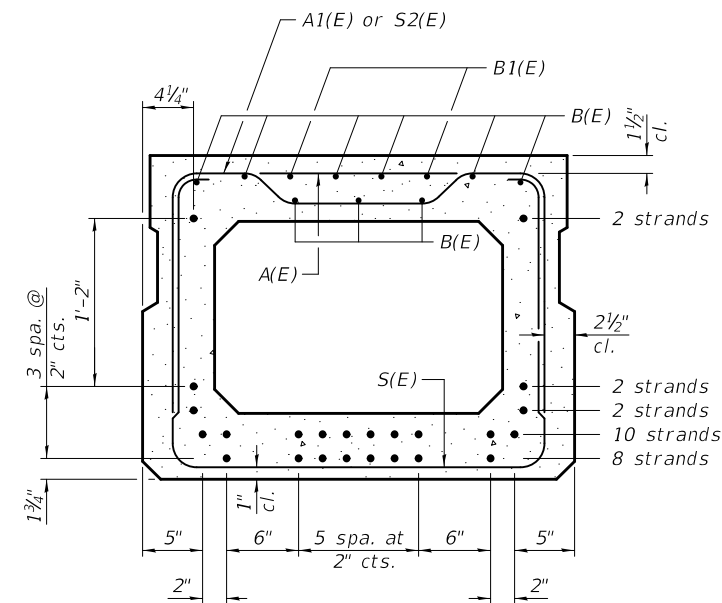
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	21	#4	2'-7"	—
A1(E)	42	#4	2'-10"	~
B(E)	9	#3	6'-4"	—
B1(E)	4	#3	10'-0"	—
S(E)	92	#4	7'-5"	┌
S1(E)	10	#4	5'-11"	┌
S2(E)	41	#4	6'-2"	┌
U(E)	8	#5	4'-6"	┌
U1(E)	4	#4	5'-0"	┌

Note:
See sheetS7 for additional details and Bill of Material.

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP
#3 bar = 1'-6"

PD-2736-0

1-1-2020

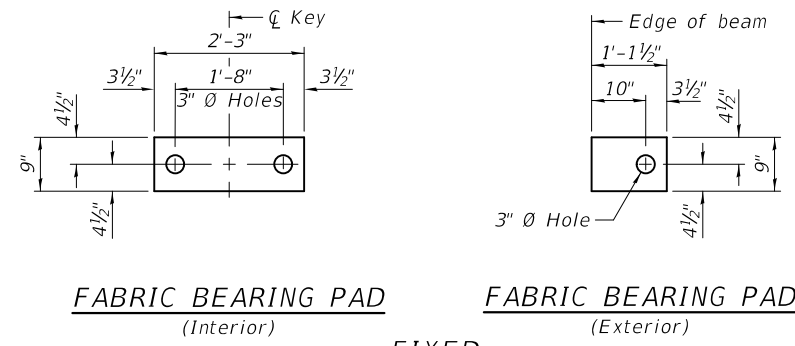
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	DRAWN - K. KOŁODZIEJCZYK	REVISED -
PLOT SCALE = 20:0,0000 '"/ in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

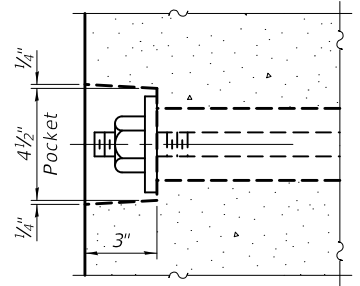
SCALE: N.T.S. SHEET 56 OF 516 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	19
			CONTRACT NO. 87739	
ILLINOIS FED. AID PROJECT				

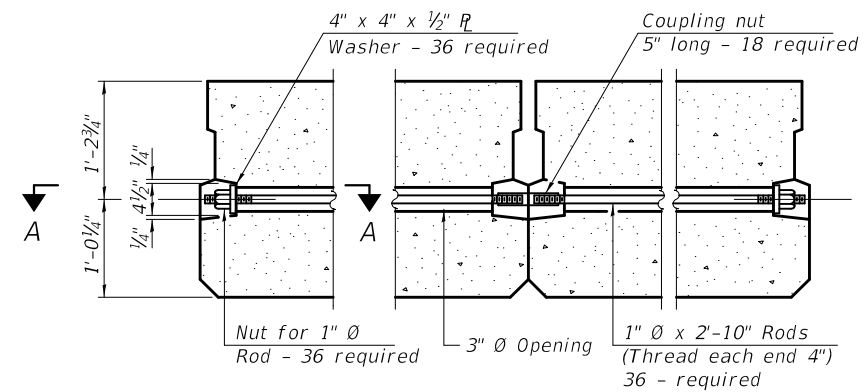


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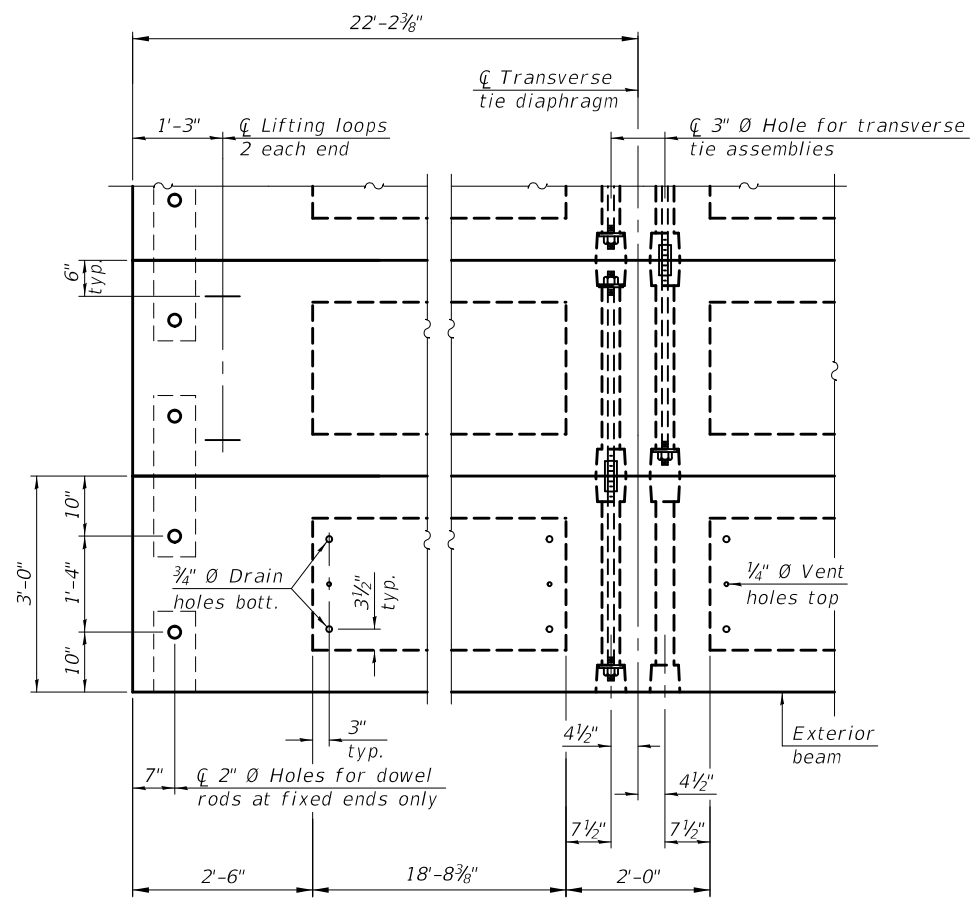
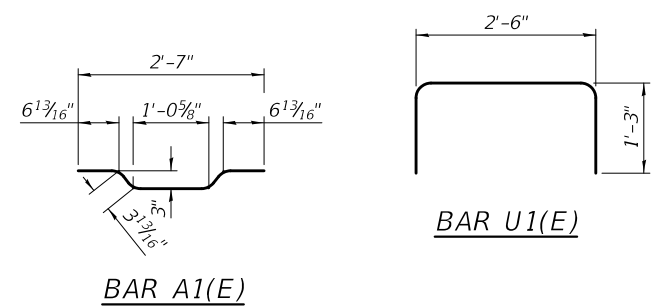
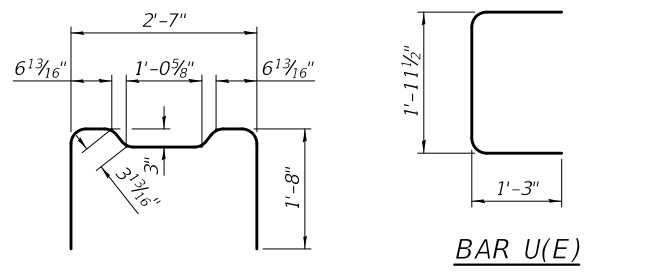
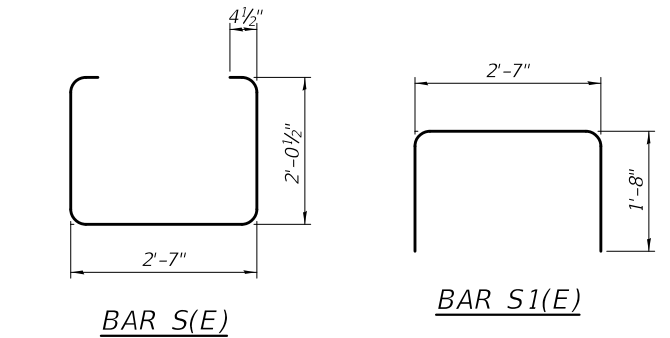
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

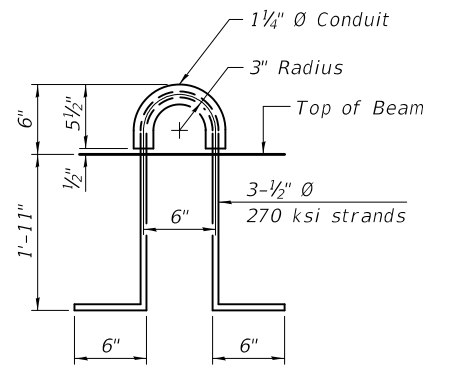


PLAN VIEW

Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft. 1,998
---	---------------

PDD-2736-0

1-1-2020

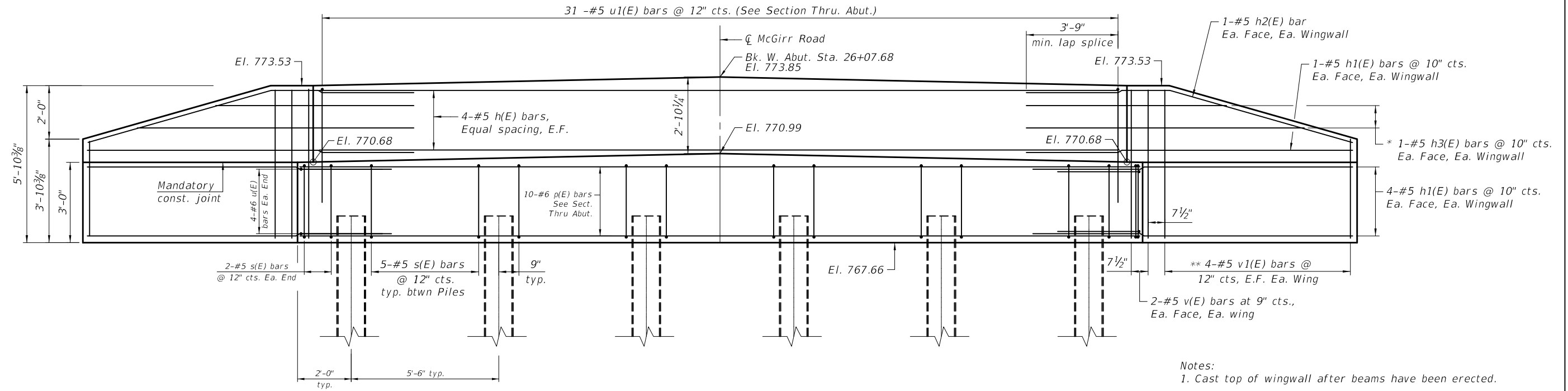
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PLOT SCALE = 20:0.0000 "/ in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

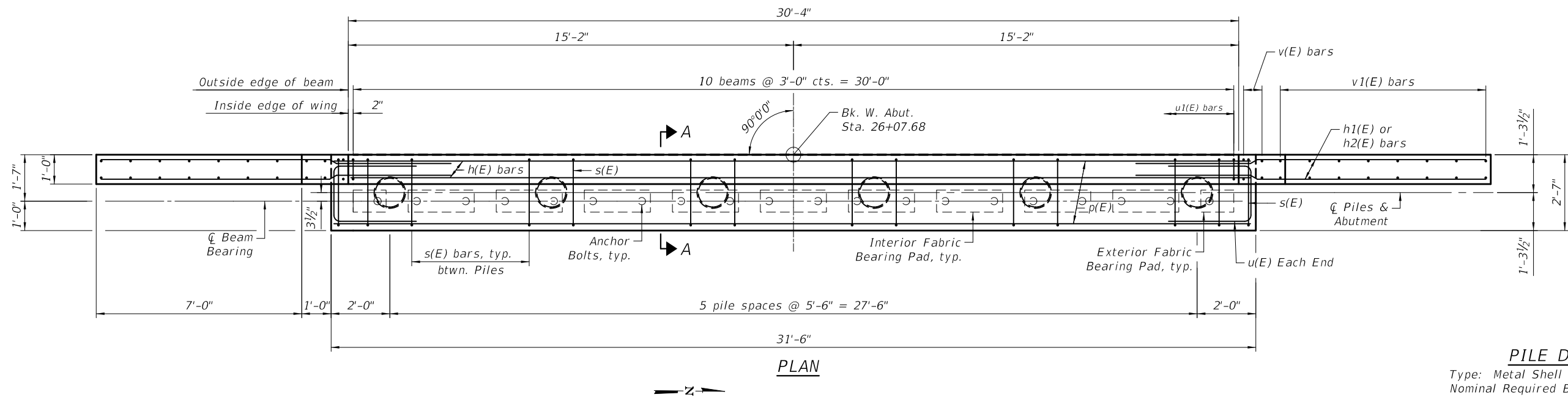
27" x 36" PPC DECK BEAM
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	20
			CONTRACT NO. 87739	
		ILLINOIS FED. AID PROJECT		

SCALE: N.T.S. SHEET 57 OF 516 SHEETS STA. TO STA.



- Notes:
1. Cast top of wingwall after beams have been erected.
 2. **See Field Cutting Diagram.
 3. * Order h3(E) bars full length. Cut to fit and use remainder as designated.



PILE DATA

Type: Metal Shell 12" \circ x 0.25"
 Nominal Required Bearing: 281 k
 Factored Resistance Available: 155 k
 Est. Length: 49 ft
 No. Production Piles: 5
 No. Test Piles: 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

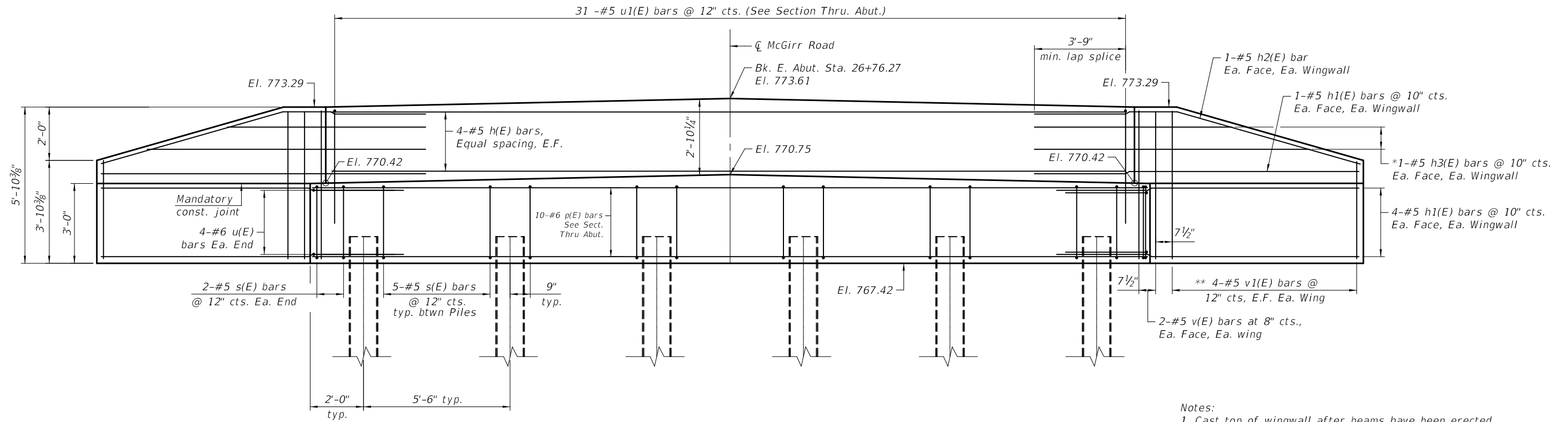
WEST ABUTMENT
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-121119-01-BR	DEKALB	39	21
CONTRACT NO. 87739				

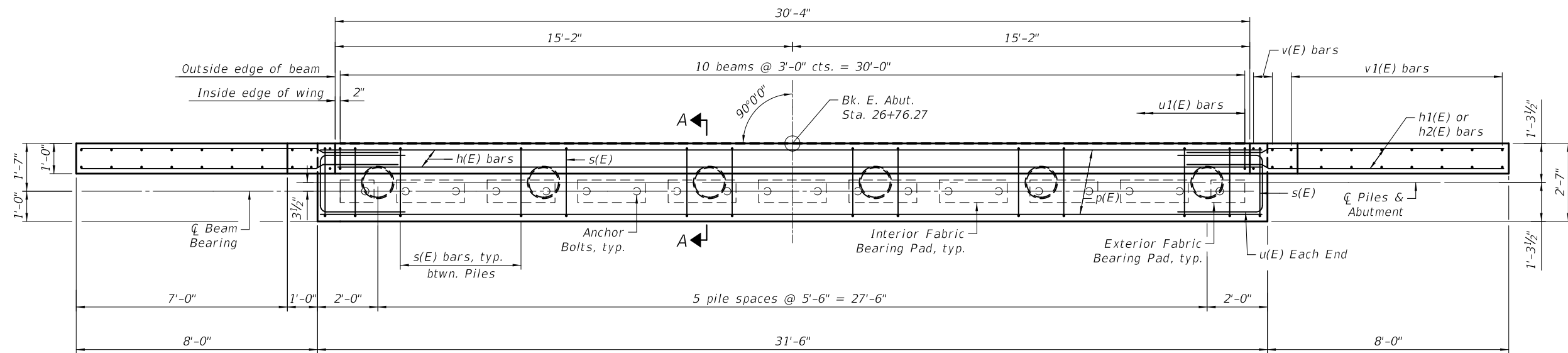
SCALE: N.T.S. SHEET 58 OF 516 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

USER NAME = kkolodziejczyk	DESIGNED - K. KOLODZIEJCZYK	REVISED -
	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT SCALE = 4:0.0000 " = 1" / in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -



- Notes:
1. Cast top of wingwall after beams have been erected.
 2. **See Field Cutting Diagram.
 3. * Order h3(E) bars full length. Cut to fit and use remainder as designated.



PLAN

PILE DATA

Type: Metal Shell 12" \varnothing x 0.25"
 Nominal Required Bearing: 281 k
 Factored Resistance Available: 155 k
 Est. Length: 36 ft
 No. Production Piles: 5
 No. Test Piles: 1

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 FILE: Abutment.dwg
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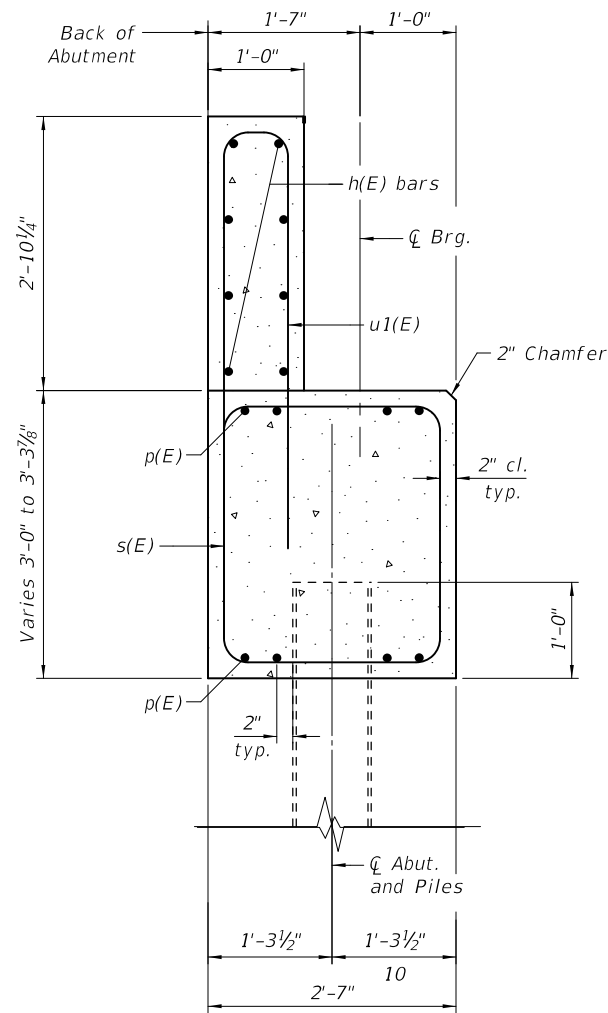
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PLOT SCALE = 4:0.0000 '"/in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

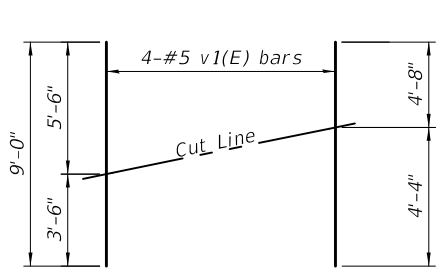
EAST ABUTMENT
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET 59 OF 516 SHEETS STA. TO STA.

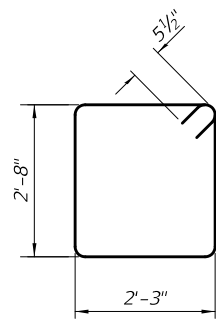
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-121119-01-BR	DEKALB	39	22
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				



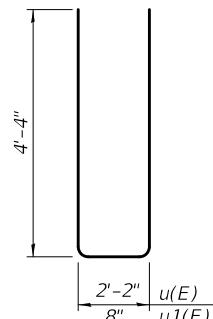
SECTION A-A



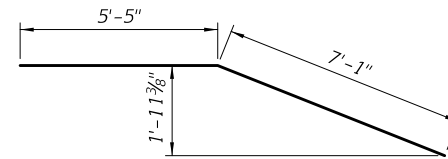
FIELD CUTTING DIAGRAM
Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite wing.



BAR s(E)



BARS u(E) & u1(E)



BAR h2(E)

BILL OF MATERIAL
(two abutments)

Bar	No.	Size	Length	Shape
h(E)	16	#5	30'-0"	—
h1(E)	40	#5	11'-11"	—
h2(E)	8	#5	12'-6"	—
h3(E)	8	#5	17'-7"	—
p(E)	20	#6	31'-2"	—
s(E)	58	#5	10'-9"	□
u(E)	16	#6	10'-10"	—
u1(E)	62	#5	9'-4"	—
v(E)	16	#5	5'-6"	—
v1(E)	32	#5	9'-0"	—
Item		Unit	Quantity	
Structure Excavation		Cu. Yd.	86.8	
Concrete Structures		Cu. Yd.	31.7	
Reinforcement Bars, Epoxy Coated		Pound	4,100	
Furnishing Metal Shell Piles 12" O x 0.250"		Foot	425	
Driving Piles		Foot	425	
Test Pile Metal Shells		Each	2	

Notes:
For details of piles and Concrete Encasement, see sheet S11 of S16.
Cast backwall and tops of wingwalls after beams have been erected.

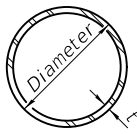
USER NAME = kkolodziejczyk	DESIGNED - K. KOLODZIEJCZYK	REVISED -
DRAWN - K. KOLODZIEJCZYK	CHECKED - M. LANGE	REVISED -
PLOT SCALE = 4:0.0000 " = 1" / in.	DATE - 02-17-2021	REVISED -
PLOT DATE = 2/17/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

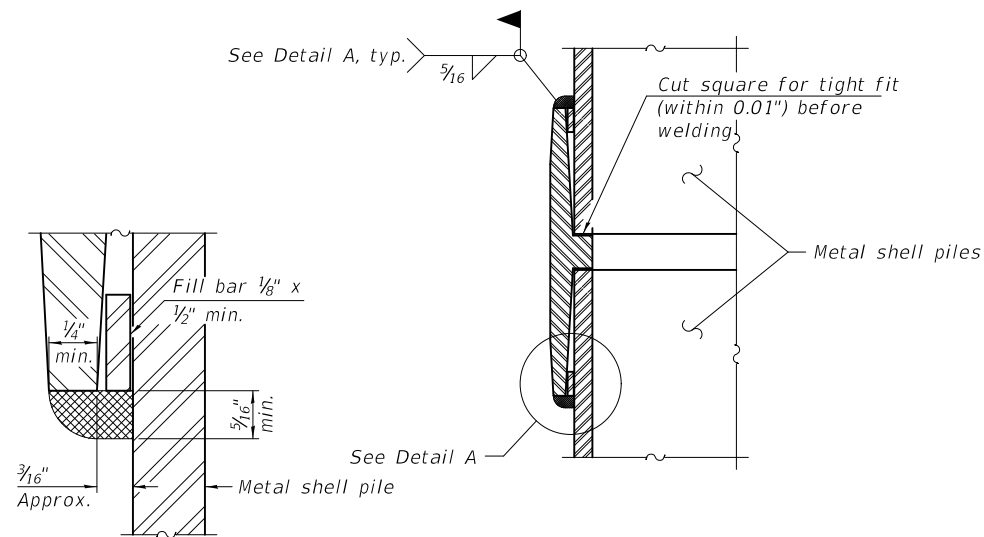
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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	23
			CONTRACT NO. 87739	
		ILLINOIS	FED. AID PROJECT	

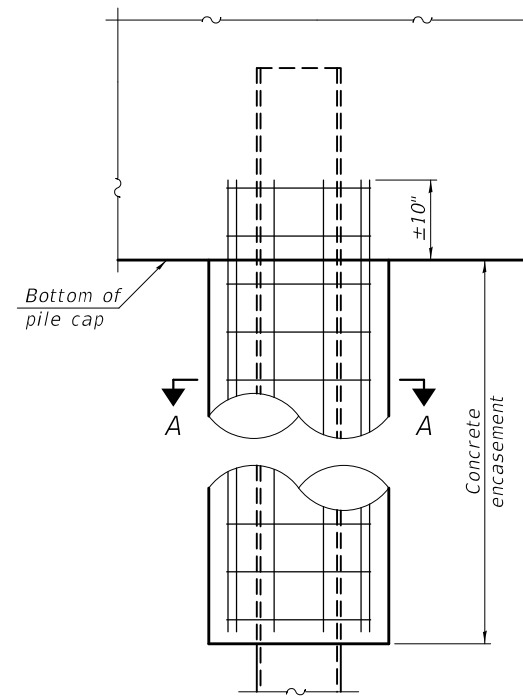


METAL SHELL PILE TABLE

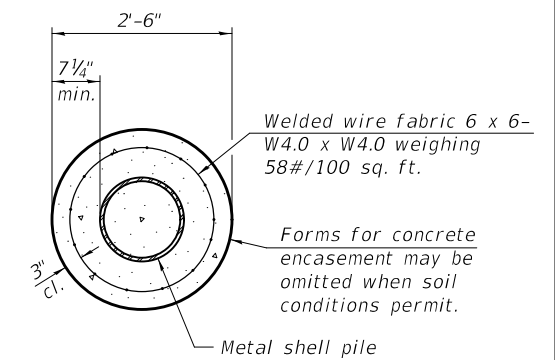
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

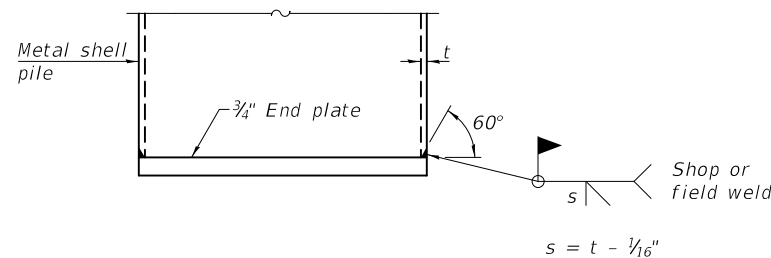


ELEVATION



SECTION A-A

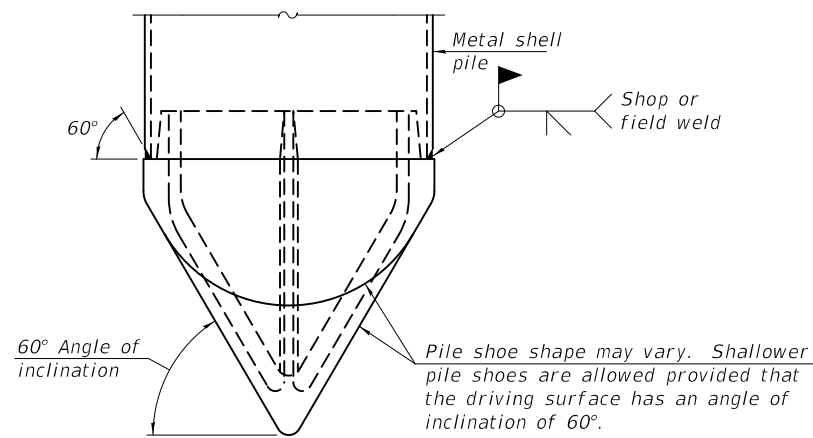
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

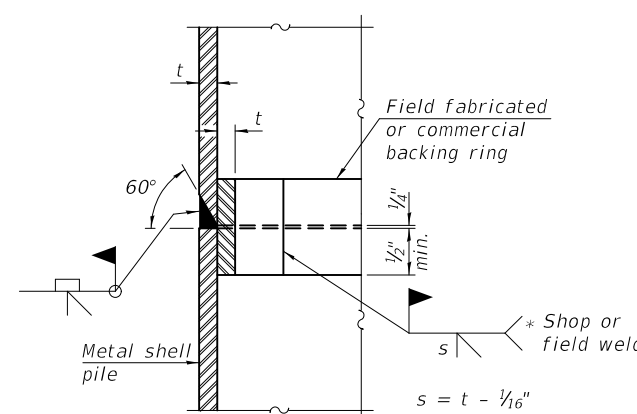
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



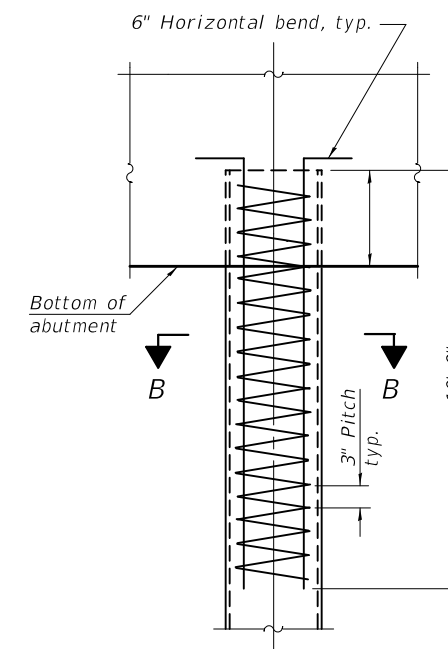
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

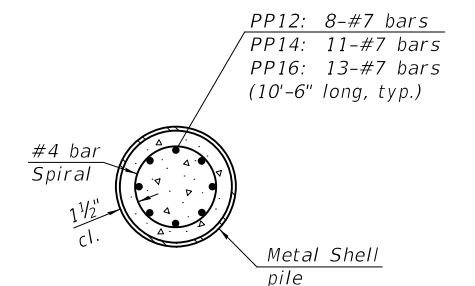


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

USER NAME = kkolodziejczyk	DESIGNED - K. KOŁODZIEJCZYK	REVISED -
DRAWN - K. KOŁODZIEJCZYK	REVISIONS -	
PLOT SCALE = 20:0.0000 '"/>		
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	24
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-01

Sheet 1 of 2

Rubino Job No.:	G20.087	Drilling Method:	3 ¼ HSA + Mud Rotary	WATER LEVELS***	
Project:	Proposed McGirr Road Bridge Replacement	Sampling Method:	Split Spoon	While Drilling	11 ft
Location:	McGirr Road Bridge over Battle Creek	Hammer Type:	Automatic	Upon Completion	N/A
City, State:	DeKalb, Illinois	Boring Location:	Westbound ROW of McGirr Road	Delay	N/A
Client:	Engineering Resources Associates, Inc.		15 feet west from edge of bridge		

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA	Additional Remarks
Station: N/A Offset: N/A											
Surface Elev.: 772.4 ft											
770	0			1	12	Approximately 6 inches of TOPSOIL FILL: brown silty clay with gravel		3 2 2 N=4	12	⊗	2% Organic Content
765	5			2	14			0 0 2 N=2	20	⊗	Qp=0.3 tsf Qu = 0.7 tsf
765	5			3	10	Soft, black silty CLAY, trace sand and gravel Possible Fill	CL	0 1 2 N=3	30	⊗	Qp=0.3 tsf 5% Organic Content
760	10			4	18	Soft, brown and gray mottled silty CLAY, little sand and gravel	CL	1 1 2 N=3	14	⊗	Qp=0.5 tsf Qu = 0.4 tsf
760	10			5	15	Gray SANDY LOAM	SM	0 3 2 N=5	21	⊗	
760	10			6	13	Medium stiff, gray silty CLAY, trace sand and gravel	CL	2 2 2 N=4	12	⊗	Qp=1.5 tsf Qu = 1.0 tsf
755	15			7	9	Loose, gray SAND	SP	0 0 5 N=5	21	⊗	
755	15			8	16	Stiff, gray CLAY LOAM	CL	5 3 5 N=8	20	⊗	Qp=0.8 tsf Qu = 0.6 tsf
750	20			9	18	Loose, gray SAND	SP	0 4 5 N=9	21	⊗	
750	20			10	18	Very stiff, gray SILT, little sand	ML	5 7 8 N=15	17	⊗	Qp=2.0 tsf Qu = 0.7 tsf
745	25			11	5	Very loose, gray SAND	SP	0 0 0 N=0	17	⊗	
745	25			12	18	Medium dense, gray SAND, trace to little fines and gravel	SP	1 7 10 N=17	19	⊗	
740	30			13	8	Medium dense, gray SAND, trace gravel	SW	3 6 6 N=12	18	⊗	
735	35			14	18	Medium dense, gray SAND, trace fines and gravel	SW	5 6 8	21	⊗	

Continued Next Page

Completion Depth:	75.0 ft	Sample Types:	Pressuremeter	Latitude: 41.8208641
Date Boring Started:	6/8/20	Auger Cutting	Shelby Tube	Longitude: -88.6336331
Date Boring Completed:	6/8/20	Split-Spoon	Hand Auger	Drill Rig: Geoprobe 7822DT
Logged By:	J.I.	Rock Core	No Recovery	Remarks: Mud and water added to hole at approximately 30 feet below existing grade.
Drilling Contractor:	Rubino Engineering, Inc.			

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-01

Sheet 2 of 2

Rubino Job No.:	G20.087	Drilling Method:	3 ¼ HSA + Mud Rotary	WATER LEVELS***	
Project:	Proposed McGirr Road Bridge Replacement	Sampling Method:	Split Spoon	While Drilling	11 ft
Location:	McGirr Road Bridge over Battle Creek	Hammer Type:	Automatic	Upon Completion	N/A
City, State:	DeKalb, Illinois	Boring Location:	Westbound ROW of McGirr Road	Delay	N/A
Client:	Engineering Resources Associates, Inc.		15 feet west from edge of bridge		

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA	Additional Remarks
Station: N/A Offset: N/A											
730	40			15	13	Medium dense, gray SAND, trace fines and gravel	SP	N=14			
725	45			16	14	Very stiff to stiff, gray silty CLAY with interbedded silt lenses, trace sand and gravel	CL	9 6 9 N=15	18	⊗	Qp=2.0 tsf
720	50			17	18		CL	4 4 8 N=12	15	⊗	Qp=2.8 tsf Qu = 1.5 tsf
715	55			18	15	Medium dense, gray SAND, trace fines	SP	8 10 10 N=20	20	⊗	
710	60			19	14		SP	8 11 11 N=22	24	⊗	
705	65			20	12	Medium dense, gray SAND, some gravel	SW	14 13 15 N=28	13	⊗	
700	70			21	6	Very stiff, gray silty CLAY, trace sand and gravel End of boring at approximately 75 feet below existing grade.	CL	30 20 17 N=37	14	⊗	Qp = 4.5 tsf

Completion Depth:	75.0 ft	Sample Types:	Pressuremeter	Latitude: 41.8208641
Date Boring Started:	6/8/20	Auger Cutting	Shelby Tube	Longitude: -88.6336331
Date Boring Completed:	6/8/20	Split-Spoon	Hand Auger	Drill Rig: Geoprobe 7822DT
Logged By:	J.I.	Rock Core	No Recovery	Remarks: Mud and water added to hole at approximately 30 feet below existing grade.
Drilling Contractor:	Rubino Engineering, Inc.			

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.



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USER NAME = kkolodziejczyk	DESIGNED - K. KOLODZIEJCZYK	REVISED -
PLOT SCALE = 20:0,0000 "/>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS I STRUCTURE NO. 019-5115 TR 175 (MCGIRR RD) OVER BATTLE CREEK		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET S12 OF S16 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	
				DEKALB	39	25
				CONTRACT NO. 87739		

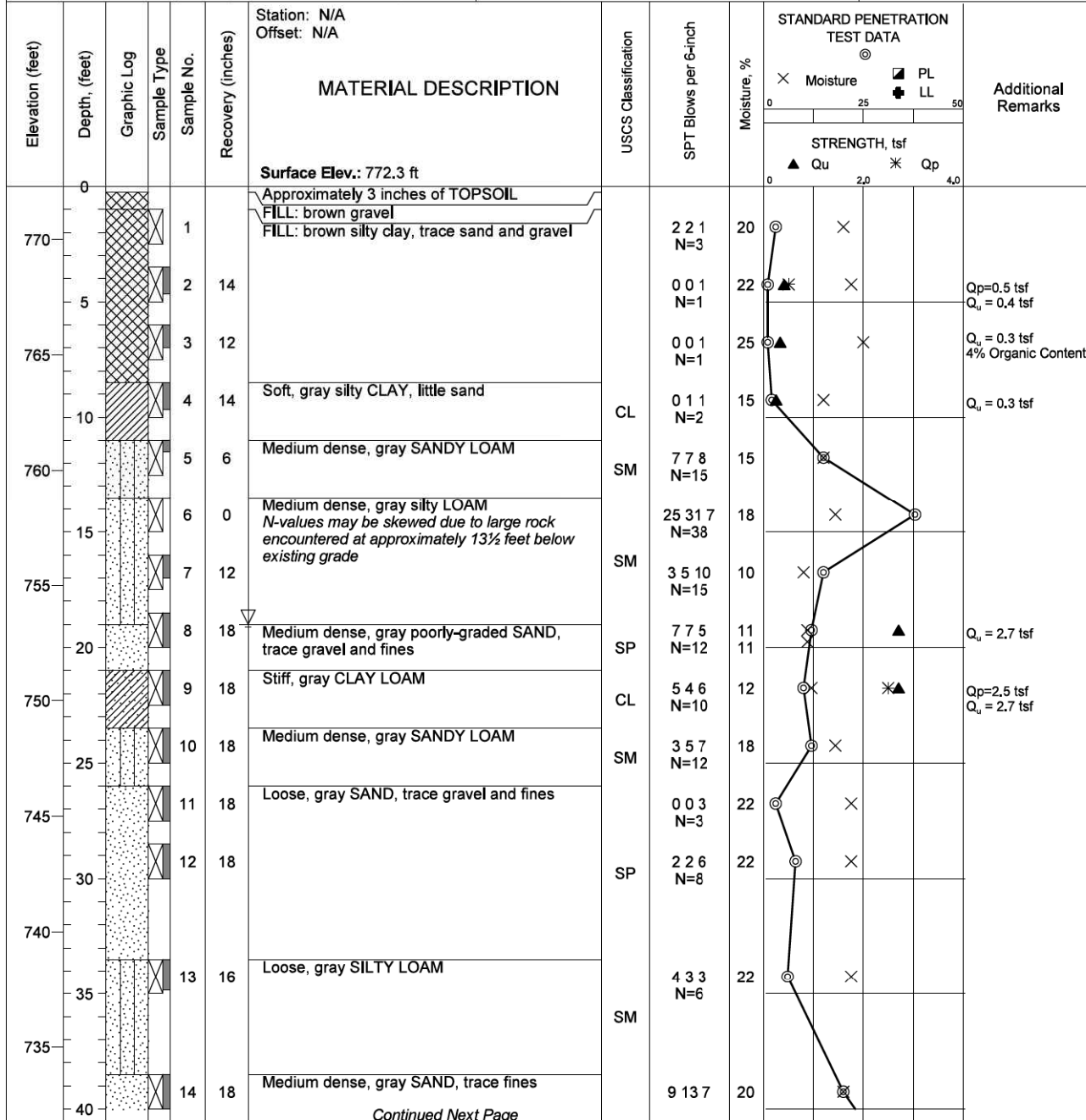


Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-02

Sheet 1 of 2

Rubino Job No.:	G20.087	Drilling Method:	3 ¼ HSA + Mud Rotary	WATER LEVELS***	
Project:	Proposed McGirr Road Bridge Replacement	Sampling Method:	Split Spoon	While Drilling	19 ft
Location:	McGirr Road Bridge over Battle Creek	Hammer Type:	Automatic	Upon Completion	N/A
City, State:	DeKalb, Illinois	Boring Location:	Eastbound ROW of McGirr Road	Delay	N/A
Client:	Engineering Resources Associates, Inc.		16 feet east from edge of bridge		



Completion Depth:	75.0 ft	Sample Types:	<input type="checkbox"/> Pressuremeter	Latitude:	41.8208051
Date Boring Started:	6/9/20	<input checked="" type="checkbox"/> Auger Cutting	<input type="checkbox"/> Shelby Tube	Longitude:	-88.6333460
Date Boring Completed:	6/10/20	<input checked="" type="checkbox"/> Split-Spoon	<input type="checkbox"/> Hand Auger	Drill Rig:	Geoprobe 7822DT
Logged By:	J.C.	<input type="checkbox"/> Rock Core	<input type="checkbox"/> No Recovery	Remarks:	Mud and water added to hole at approximately 30 feet below existing grade.
Drilling Contractor:	Rubino Engineering, Inc.				

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

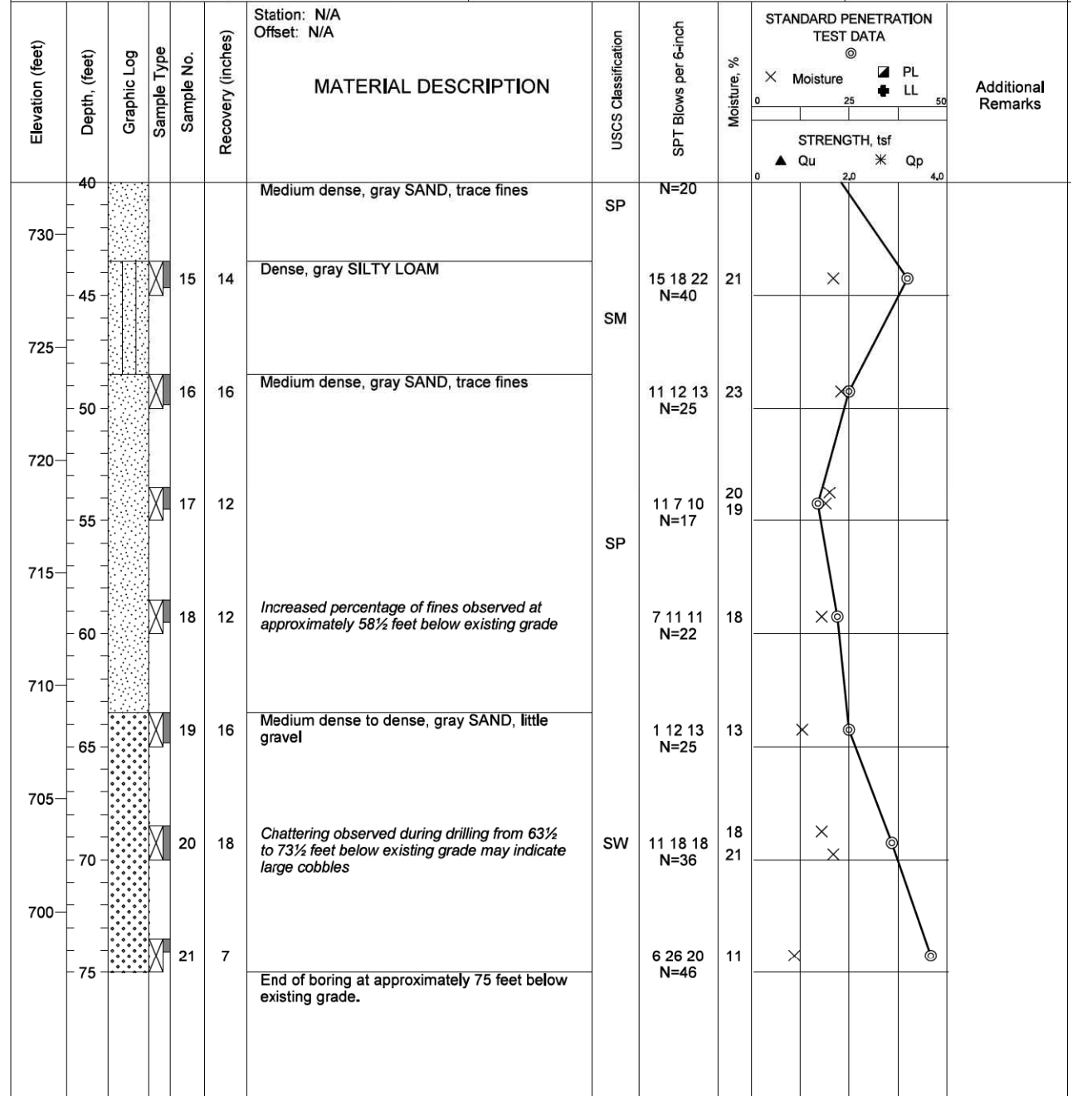


Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-02

Sheet 2 of 2

Rubino Job No.:	G20.087	Drilling Method:	3 ¼ HSA + Mud Rotary	WATER LEVELS***	
Project:	Proposed McGirr Road Bridge Replacement	Sampling Method:	Split Spoon	While Drilling	19 ft
Location:	McGirr Road Bridge over Battle Creek	Hammer Type:	Automatic	Upon Completion	N/A
City, State:	DeKalb, Illinois	Boring Location:	Eastbound ROW of McGirr Road	Delay	N/A
Client:	Engineering Resources Associates, Inc.		16 feet east from edge of bridge		



Completion Depth:	75.0 ft	Sample Types:	<input type="checkbox"/> Pressuremeter	Latitude:	41.8208051
Date Boring Started:	6/9/20	<input checked="" type="checkbox"/> Auger Cutting	<input type="checkbox"/> Shelby Tube	Longitude:	-88.6333460
Date Boring Completed:	6/10/20	<input checked="" type="checkbox"/> Split-Spoon	<input type="checkbox"/> Hand Auger	Drill Rig:	Geoprobe 7822DT
Logged By:	J.C.	<input type="checkbox"/> Rock Core	<input type="checkbox"/> No Recovery	Remarks:	Mud and water added to hole at approximately 30 feet below existing grade.
Drilling Contractor:	Rubino Engineering, Inc.				

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.



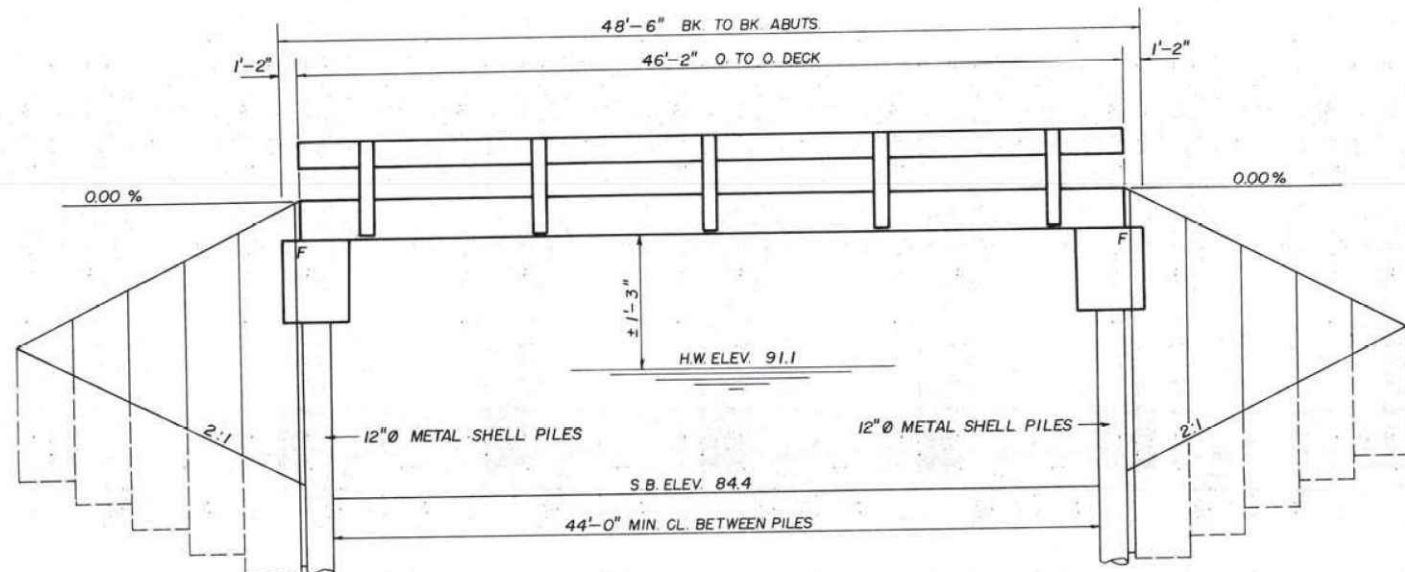
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		DATE	- 02-17-2021	REVISED	-

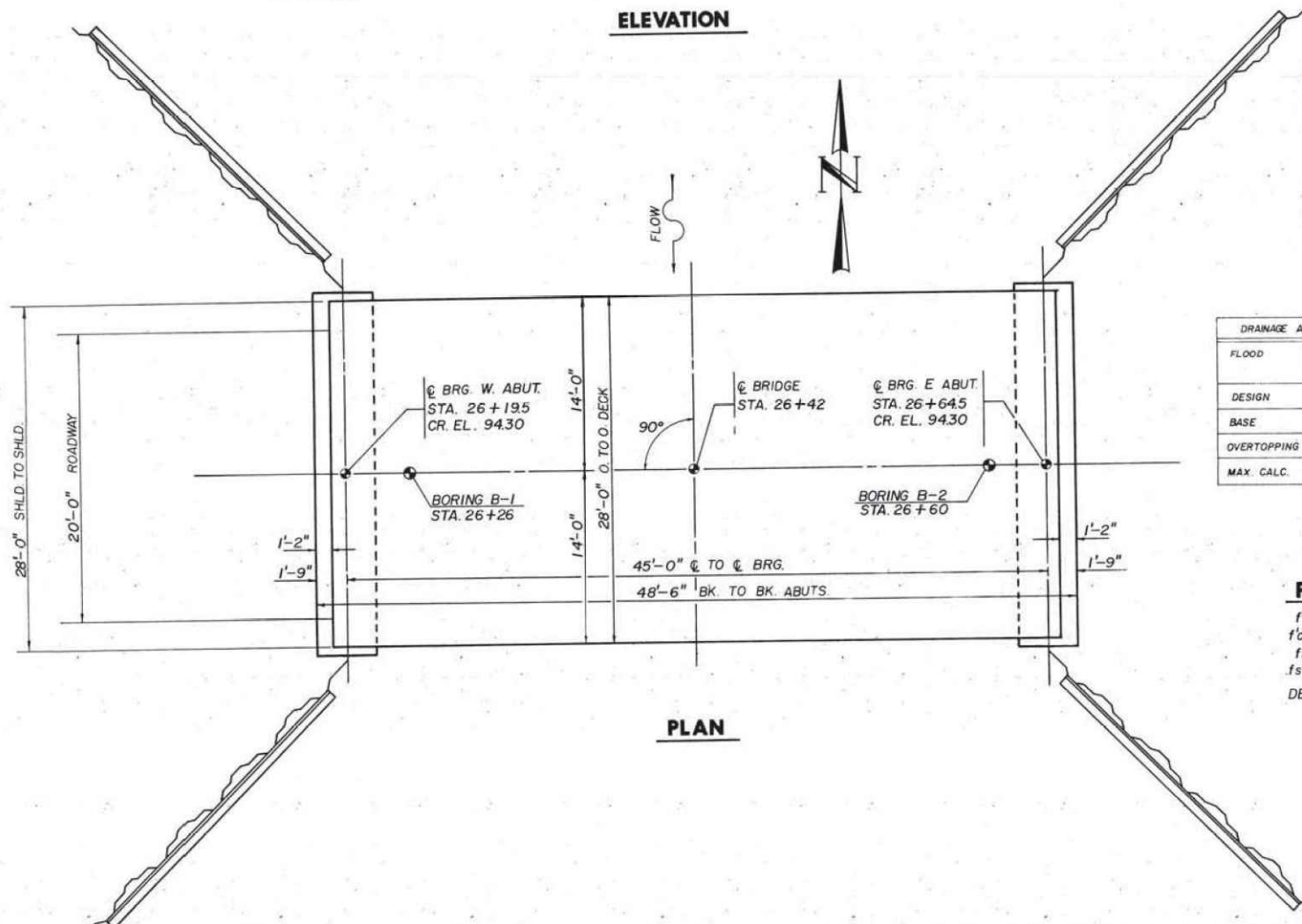
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS II STRUCTURE NO. 019-5115 TR 175 (MCGIRR RD) OVER BATTLE CREEK		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET S13 OF S16 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	
				DEKALB	39	26
				CONTRACT NO. 87739		

B.M. CHISELED "□" ON WEST END OF NORTH RAIL OF EXISTING BRIDGE ELEV. 96.05
 EXISTING: R.C. BRIDGE ON CONCRETE ABUTMENTS
 SALVAGE: ALL ITEMS DEEMED SALVAGEABLE BY THE COUNTY SHALL BECOME THE PROPERTY OF THE COUNTY AND SHALL BE STOCKPILED WITHIN THE R.O.W.



ELEVATION



PLAN

GENERAL NOTES

BACKFILL SHALL BE PLACED BEHIND THE ABUTMENT AFTER THE SUPERSTRUCTURE IS IN PLACE.
 SEE SPECIAL PROVISIONS FOR BORING DATA.

ALL WASHERS, NUTS, BOLTS, RODS AND HARDWARE SHALL BE HOT-DIPPED GALVANIZED.

THE CONTRACTOR SHALL DRIVE A METAL SHELL TEST PILE IN A PERMANENT LOCATION AT EAST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

BILL OF MATERIAL

ITEM	UNIT	BRIDGE		
		SUB.	SUPER	TOTAL
CLASS X CONCRETE	CU YDS	18.2		18.2
REINFORCEMENT BARS	POUNDS	1970		1970
STEEL SHEET PILING	SQ. FT.	1990		1990
PRECAST PRESTRESSED CONC. DECK BEAMS (21" DEPTH)	SQ. FT.		1293	1293
HARDWARE	POUNDS	502		502
FURNISHING METAL PILE SHELLS	LIN. FT.	228		228
DRIVING AND FILLING SHELLS	LIN. FT.	228		228
TEST PILES, METAL SHELLS	EACH	2		2
STEEL RAILING, TYPE S	LIN. FT.		92	92
NAMEPLATES	EACH			1
REMOVAL OF EXISTING STRUCTURES	EACH			1
FURN & ERECTING STRUCTURAL STEEL	POUNDS	2407		2407

WATERWAY INFORMATION

DRAINAGE AREA = 13.2 SQ. MI. LOW GRADE ELEV = 94.0 @ STA 28+00

FLOOD	FREQ. YR.	O. C. F. S.	OPENING SQ. FT.		NAT. H.W.E.	HEAD-FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIGN	15	814	130	225	91.1		0.34		
BASE	100	1254	130	274	91.8		0.98		
OVERTOPPING	>100								
MAX. CALC.	500								

BATTLE CREEK
 STATION 26+42
 SECTION 82-12119-00-BR
 PIERCE ROAD DISTRICT
 DEKALB COUNTY
 LOADING HS 20 BUILT 1984
 STR. NO. 019-5111

LETTERING FOR NAMEPLATE
 SEE STD. 2113



DESIGN STRESSES

PRESTR. UNITS	FIELD UNITS
$f'_c = 5000$ PSI	$f_y = 6000$ PSI (REINFORCEMENT)
$f'_{ci} = 4000$ PSI	$f_y = 38,500$ PSI (SHEET PILING)
$f_s = 270,000$ PSI	$f_y = 36,000$ PSI (STRUCT. STEEL & HARDWARE)
$f_{si} = 189,000$ PSI	$f_c = 3500$ PSI

DESIGN SPECIFICATIONS: AASHTO 1977 AND 1978, 1979, 1980, AND 1981 INTERIM SPECIFICATIONS.

GENERAL PLAN AND ELEVATION
 SECTION 82-12119-00-BR
 PIERCE ROAD DISTRICT
 DEKALB COUNTY

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".

LOADING HS 20-44 (ALLOW 25 lbs./sq.ft. FOR FUTURE WEARING SURFACE)



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	DRAWN - K. KOŁODZIEJCZYK	REVISED -
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PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

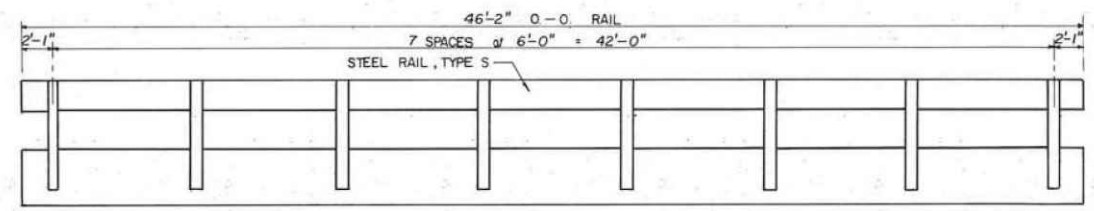
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS I
 STRUCTURE NO. 019-5115
 TR 175 (MCGIRR RD) OVER BATTLE CREEK

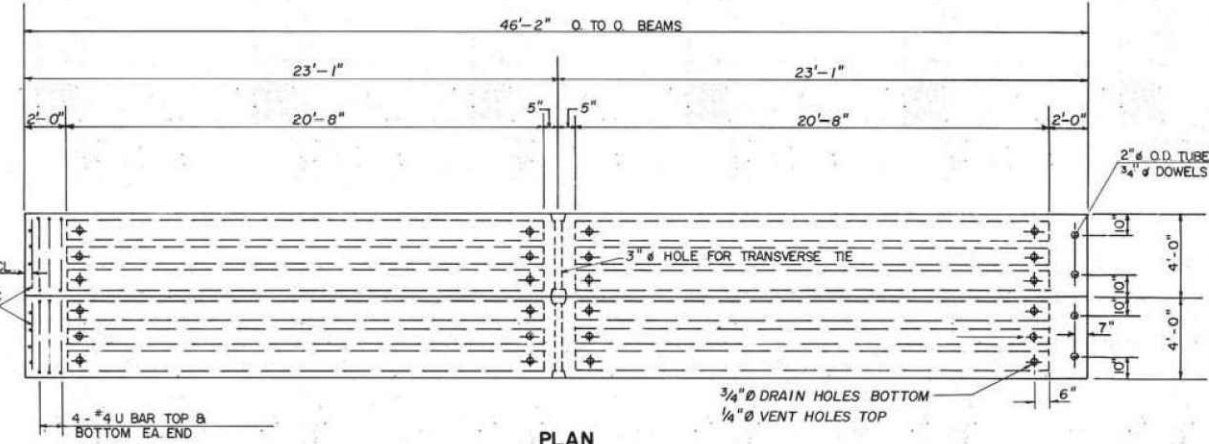
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FOR INFORMATION ONLY

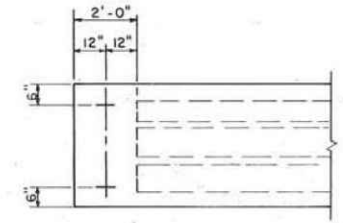
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	27
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				



ELEVATION

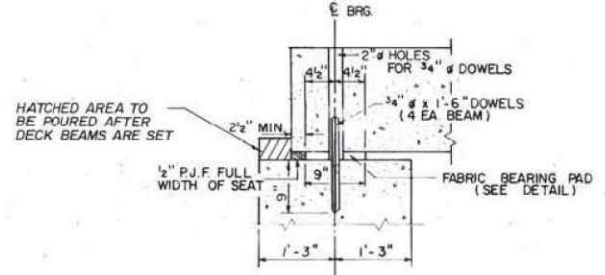


PLAN

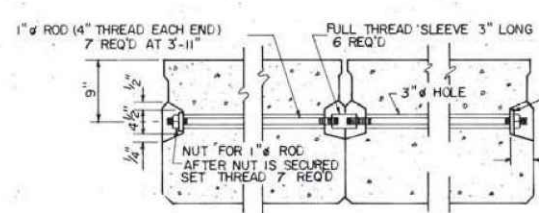


PLAN OF END OF BEAM SHOWING LOCATION OF LIFTING LOOPS

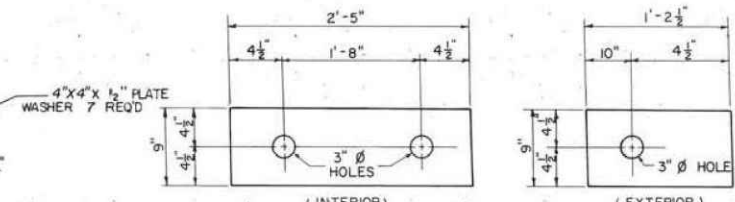
EACH BEAM SHALL HAVE FOUR LIFTING LOOPS, TWO CAST IN EACH END AS SHOWN ABOVE. LOOPS SHALL BE BURNED OFF AFTER BEAMS HAVE BEEN ERECTED.



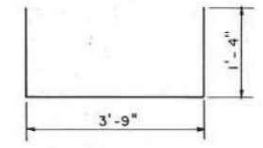
SECTION THRU ABUTMENTS



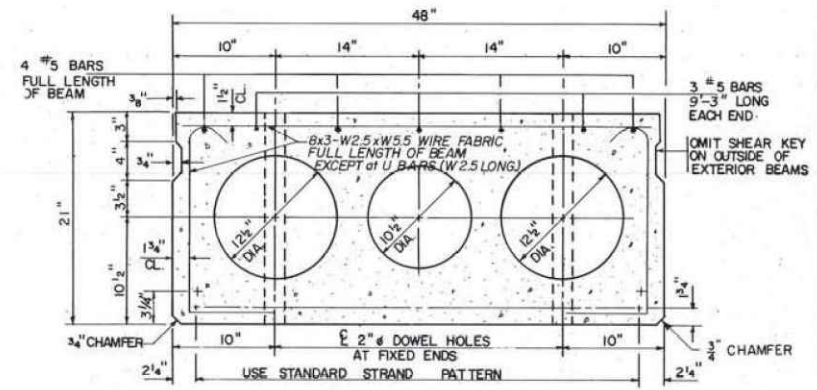
TRANSVERSE TIE ASSEMBLY



1/2" FABRIC BEARING PAD

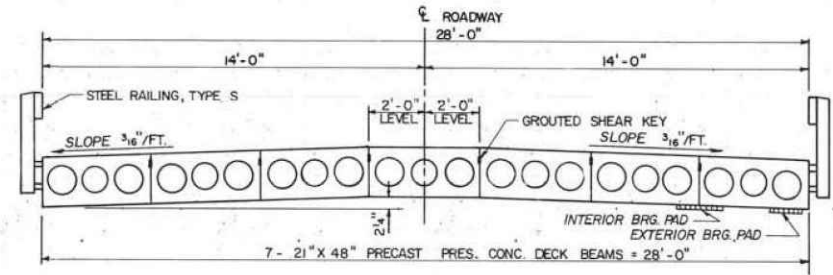


BAR U

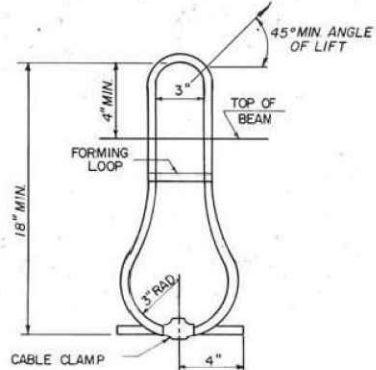


TYPICAL SECTION THRU 21" X 48" BEAM

14-7 WIRE 1/2" STRANDS. EACH STRAND STRESSED TO 28,900 LBS. 12 STRANDS 3/4" UP, 2 STRANDS 3/4" UP PLACE STRANDS SYMMETRICALLY ABOUT C BEAM.



TYPICAL CROSS SECTION



DETAIL OF LIFTING LOOP

LIFTING LOOPS SHALL BE 6X25 CLASS WIRE 5/8" ROPE WITH FIBER CORE. MINIMUM ULTIMATE TENSILE STRENGTH SHALL BE 33,000 LBS.

BILL OF MATERIAL SUPERSTRUCTURE

ITEM	QUANTITY
PRECAST PRESTRESSED CONC DECK BEAMS (21" DEPTH)	1293 SQ. FT.
STEEL RAILING, TYPE S	92 LIN. FT.

GENERAL NOTES

- PRESTRESSING STEEL SHALL BE NON-GALVANIZED HIGH STRENGTH STRESS-RELIEVED 7-WIRE STRAND, GRADE 270. THE NOMINAL DIAMETER SHALL BE 1" AND THE NOMINAL CROSS-SECTIONAL AREA SHALL BE 0.153 SQUARE INCH.
- THE 1" RODS IN THE TRANSVERSE TIE ASSEMBLY SHALL BE TIGHTENED TO A SNUG FIT AND THE THREADS SET.
- POCKETS THAT RECEIVE TRANSVERSE TIE BAR ON OUTSIDE BEAM SHALL BE FILLED WITH GROUT AFTER TRANSVERSE TIE ASSEMBLY IS IN PLACE.
- LONGITUDINAL SHEAR KEYS SHALL BE DRY PACKED WITH 2:1 SAND AND P.C. MORTAR.
- DOWEL BARS SHALL BE DRILLED AND GROUTED IN PLACE AFTER BEAMS ARE IN PLACE AND ALLOWED TO CURE A MINIMUM OF 24 HOURS PRIOR TO GROUTING OF SHEAR KEYS.
- COST OF REINFORCEMENT AND ACCESSORIES CASTED INTO BEAM, OF BEARING PADS, OF FURNISHING AND ASSEMBLING TRANSVERSE TIES, OF FURNISHING, DRILLING AND GROUTING DOWEL HOLES, AND OF GROUTING LONGITUDINAL SHEAR KEYS IS INCLUDED IN UNIT PRICE BID FOR "PRECAST PRESTRESSED CONCRETE DECK BEAMS".
- REINFORCEMENT BARS SHALL CONFORM TO AASHTO M-31 OR M-53, GRADE 60.
- THE BEARING SEAT SURFACES SHALL BE ADJUSTED BY SHIMMING TO ASSURE FIRM AND EVEN BEARING. TWO 1/8" FABRIC ADJUSTING SHIMS OF THE DIMENSIONS OF THE EXTERIOR BEARING PAD SHALL BE PROVIDED FOR EACH BEARING.

SUPERSTRUCTURE
SECTION 82-12119-00-BR
PIERCE ROAD DISTRICT
DEKALB COUNTY



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FOR INFORMATION ONLY

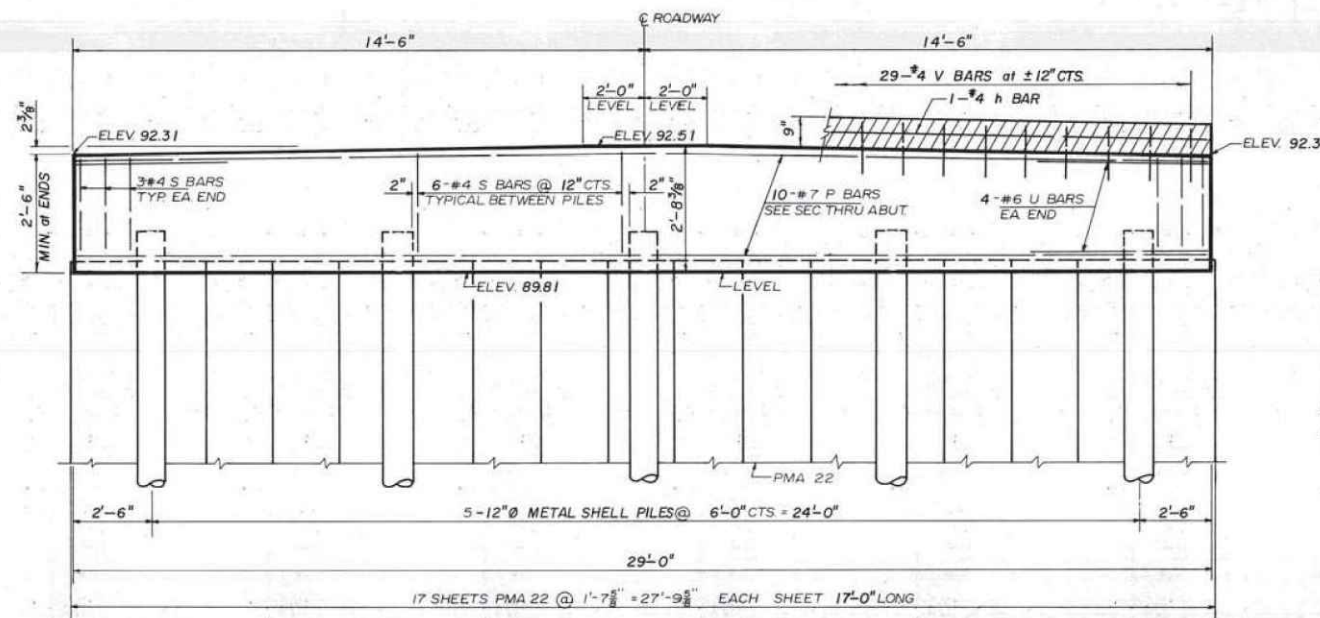
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PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

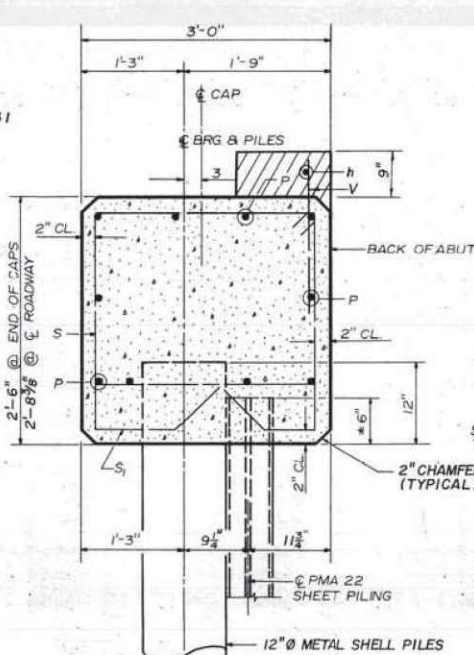
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STRUCTURE NO. 019-5115
TR 175 (MCGIRR RD) OVER BATTLE CREEK

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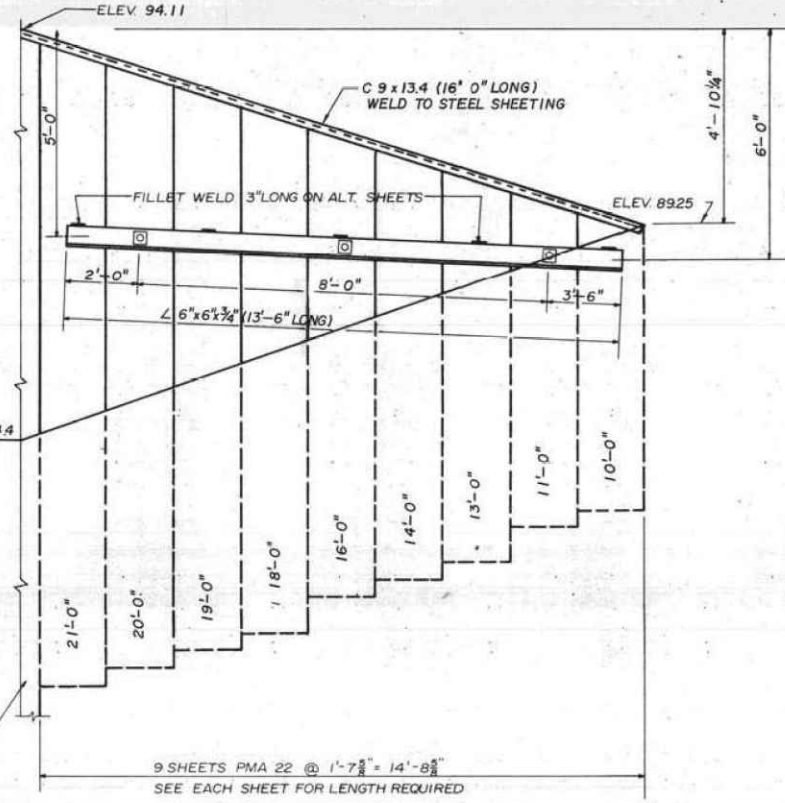
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	28
CONTRACT NO. 87739				
		ILLINOIS	FED. AID PROJECT	



ELEVATION ABUTMENT



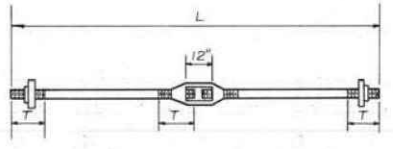
SECTION THRU ABUTMENT



ELEVATION WINGWALL

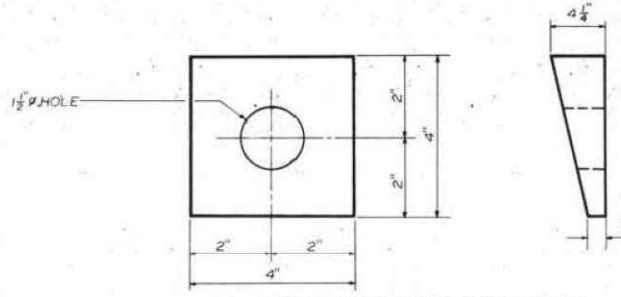
PILE DATA

TYPE	12"Ø METAL SHELL
CAPACITY	30 TON
NO REQ'D	8 + 2 TEST PILE
EST LENGTH	27 FT WEST ABUT 22 FT EAST ABUT



ROD DETAILS & DIMENSIONS

RODS	SIZE	NO.	L	T	TURN-BUCKLE	EACH ROD		
						BEVELLED WASHER SIZE	WASHER NO.	NUT
R	1 1/2"Ø	2	36'-0"	9"	2	4" x 4"	2	2
R ₁	3/4"Ø	2	47'-6"	9"	2	4" x 4"	2	2



BEVELLED WASHER DETAIL

BILL OF MATERIAL SUBSTRUCTURE

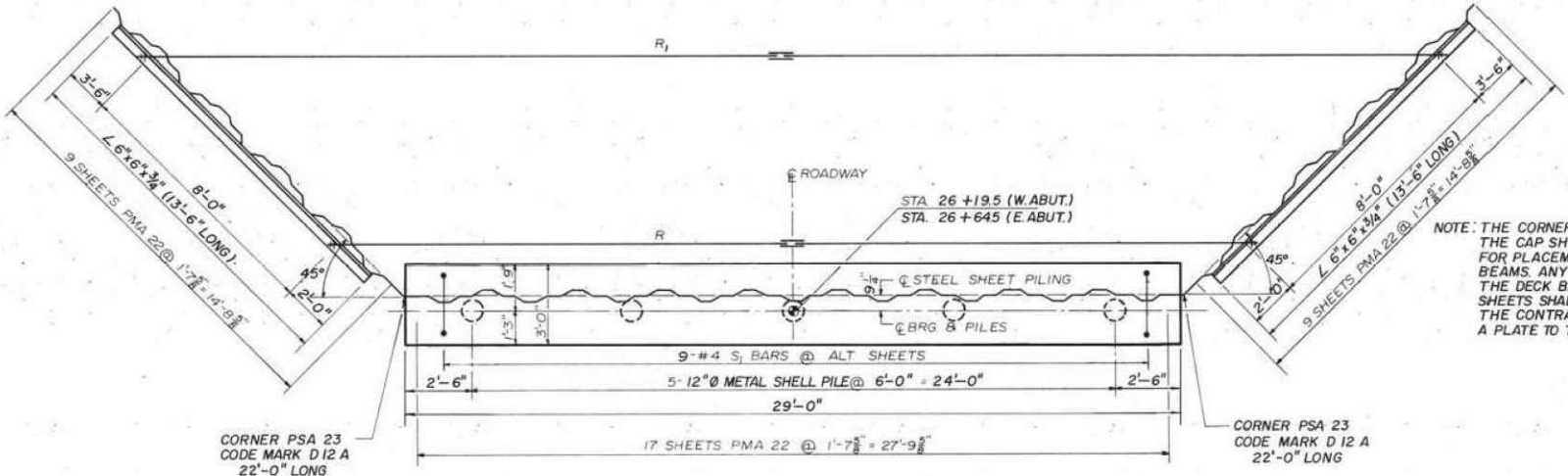
BAR	NO.	SIZE	LENGTH	SHAPE
P	20	#7	28'-6"	
h	2	#4	28'-6"	
S	60	#4	9'-5"	
S ₁	18	#4	6'-1"	
U	16	#6	10'-7"	
V	58	#4	1'-6"	

CLASS X CONCRETE	CU YD.	18.2
REINFORCEMENT BARS	POUND	1970
FURN. METAL PILE SHELLS 12"Ø	LIN. FT.	228
DRIVING AND FILLING SHELLS	LIN. FT.	228
TEST PILES - METAL SHELL	EACH	1
STEEL SHEET PILING	SQ. FT.	1990
FURN. & ERECT. STRUCTURAL STEEL	POUND	2407
HARDWARE	POUND	502

GENERAL NOTES

STEEL RODS AND ACCESSORIES SHALL BE GALVANIZED AND ARE INCLUDED FOR PAYMENT PER POUND OF HARDWARE.
 1 1/2" Ø HOLES SHALL BE DRILLED (NOT BURNT) IN WING PILES TO FIT STRUCTURAL STEEL WALER AFTER WING SHEET PILES ARE IN PLACE.
 WALERS AND CHANNEL SECTIONS FOR THE TOP OF THE WINGWALLS ARE ALL INCLUDED FOR PAYMENT PER POUND OF FURNISHING AND ERECTING STRUCTURAL STEEL.
 HATCHED AREA TO BE POURED AFTER DECK BEAMS ARE SET.

SUBSTRUCTURE
 SECTION 82-12119-00-BR
 PIERCE ROAD DISTRICT
 DEKALB COUNTY

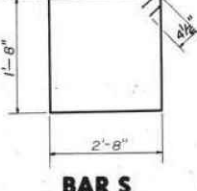


PLAN

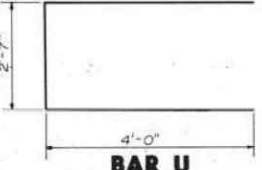
NOTE: THE CORNER SHEETS ABOVE THE CAP SHALL BE NOTCHED FOR PLACEMENT OF THE DECK BEAMS. ANY GAP BETWEEN THE DECK BEAMS AND CORNER SHEETS SHALL BE FILLED BY THE CONTRACTOR BY WELDING A PLATE TO THE CORNER SHEET.



BAR S₁



BAR S



BAR U



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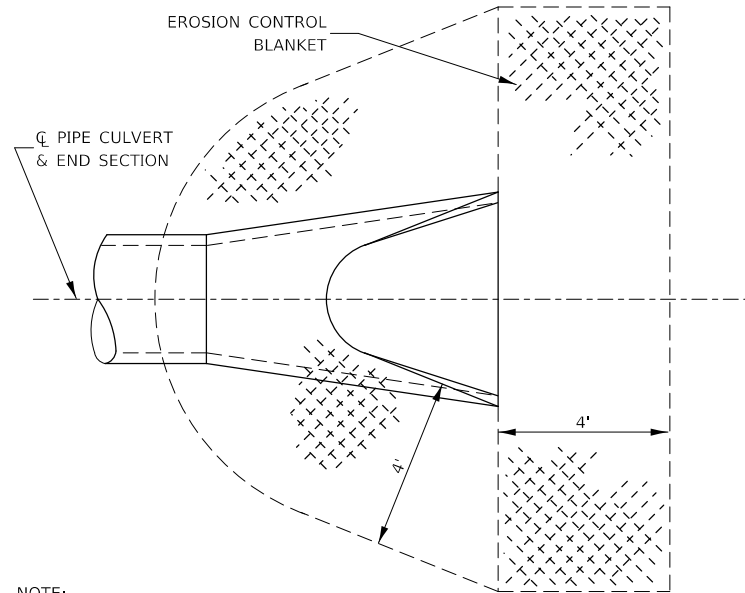
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS III
 STRUCTURE NO. 019-5115
 TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET OF 516 SHEETS STA. TO STA.

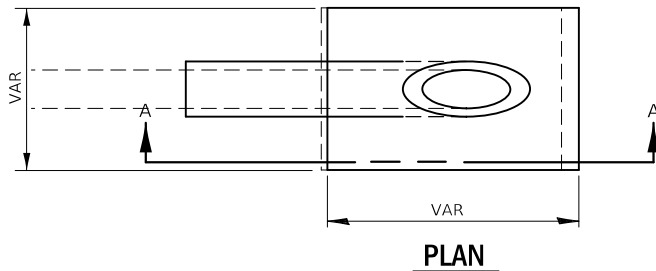
FOR INFORMATION ONLY

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

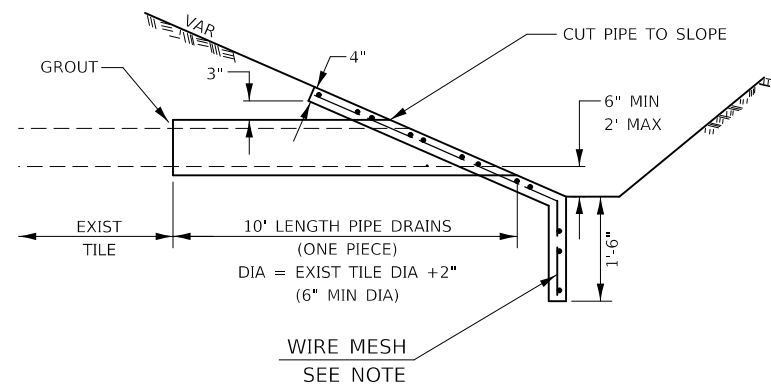


NOTE:
TO BE USED AT ALL END SECTIONS

**DETAIL OF EROSION CONTROL BLANKET
LINING AROUND END SECTION**



PLAN

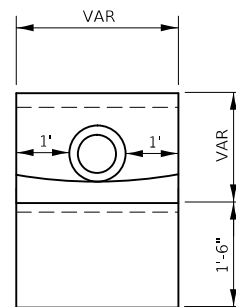


SECTION A-A

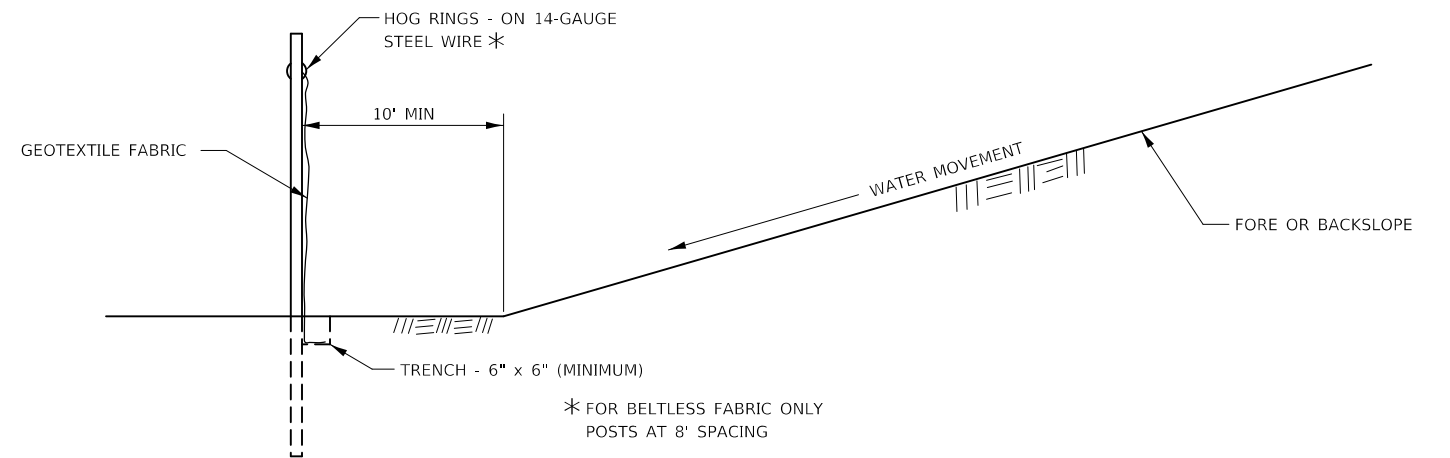
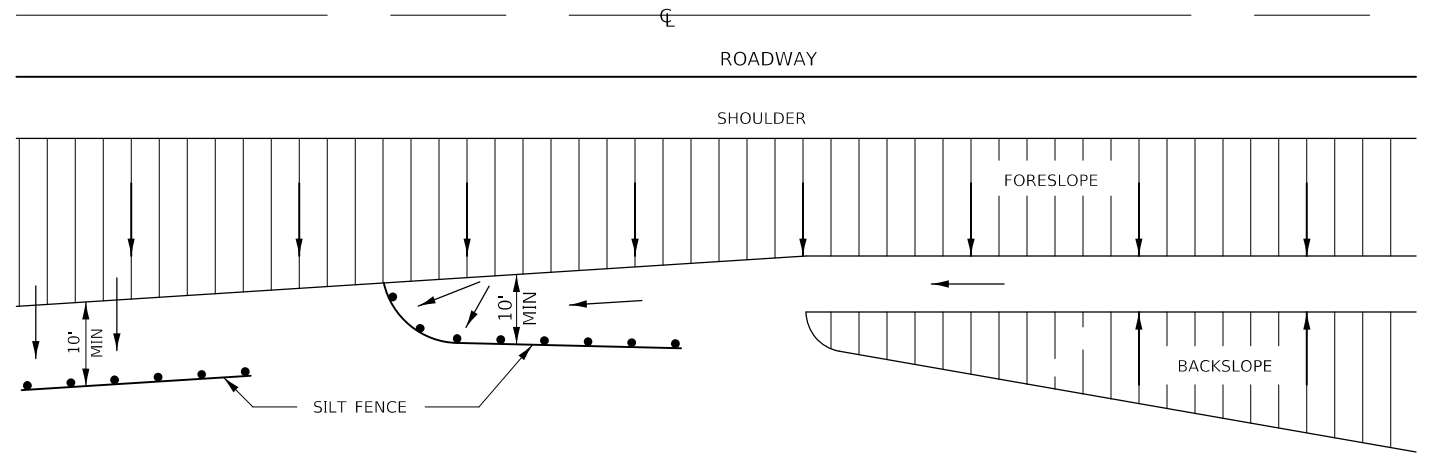
PIPE DRAINS & CONCRETE HEADWALLS 611-3

NOTES

1. ANY FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

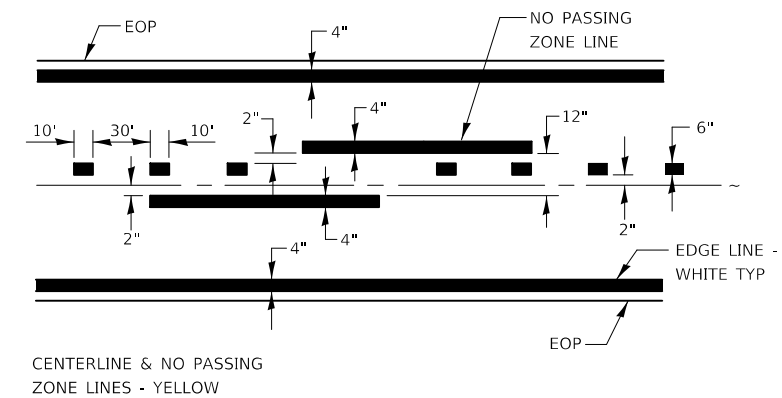


END VIEW



DETAILS OF SILT FENCE

**EROSION CONTROL DETAILS
FOR SILT FENCE**



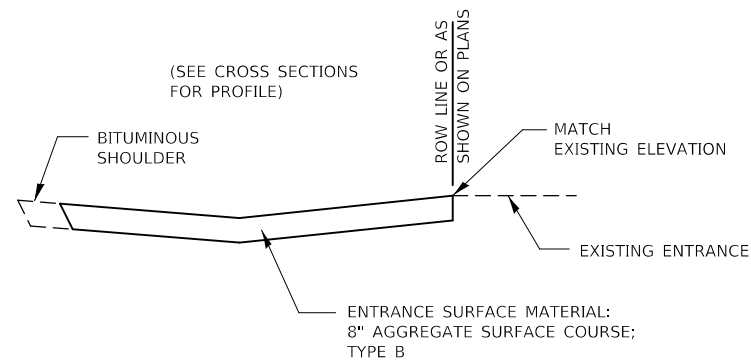
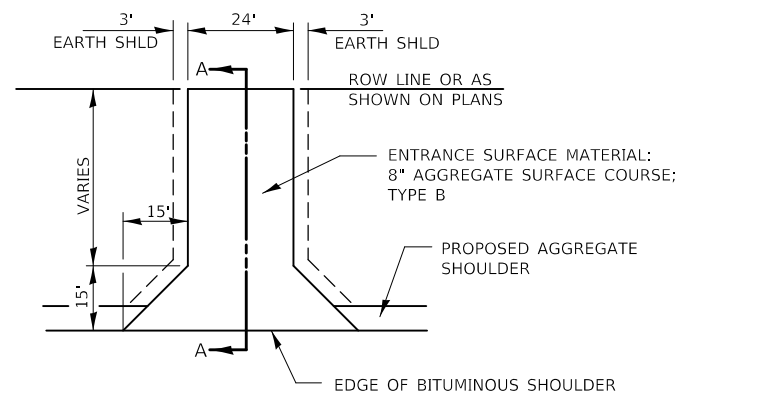
PAVEMENT MARKING 780-8

USER NAME = kkołodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
DRAWN - K. KOŁODZIEJCZYK	REVISIONS -	
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PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

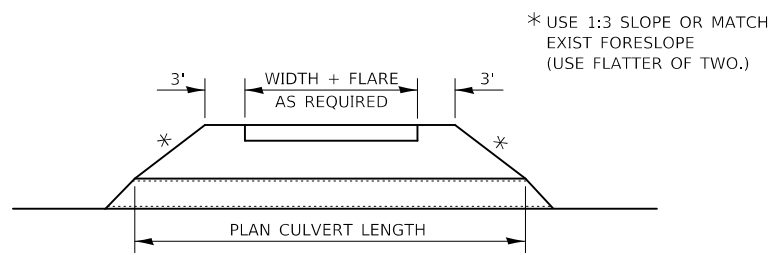
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 3 DETAILS
TR 175 (MCGIRR RD) OVER BATTLE CREEK**
SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

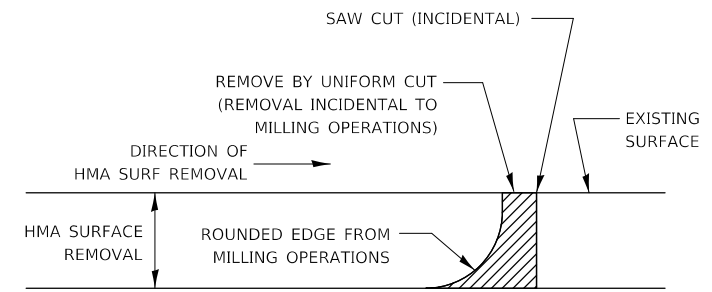
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-121119-01-BR	DEKALB	39	30
			CONTRACT NO. 87739	
ILLINOIS FED. AID PROJECT				



SECTION A-A



FIELD ENTRANCE DETAIL



NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

HMA DETAIL AT BUTT JOINTS

USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 02-17-2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 3 DETAILS
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

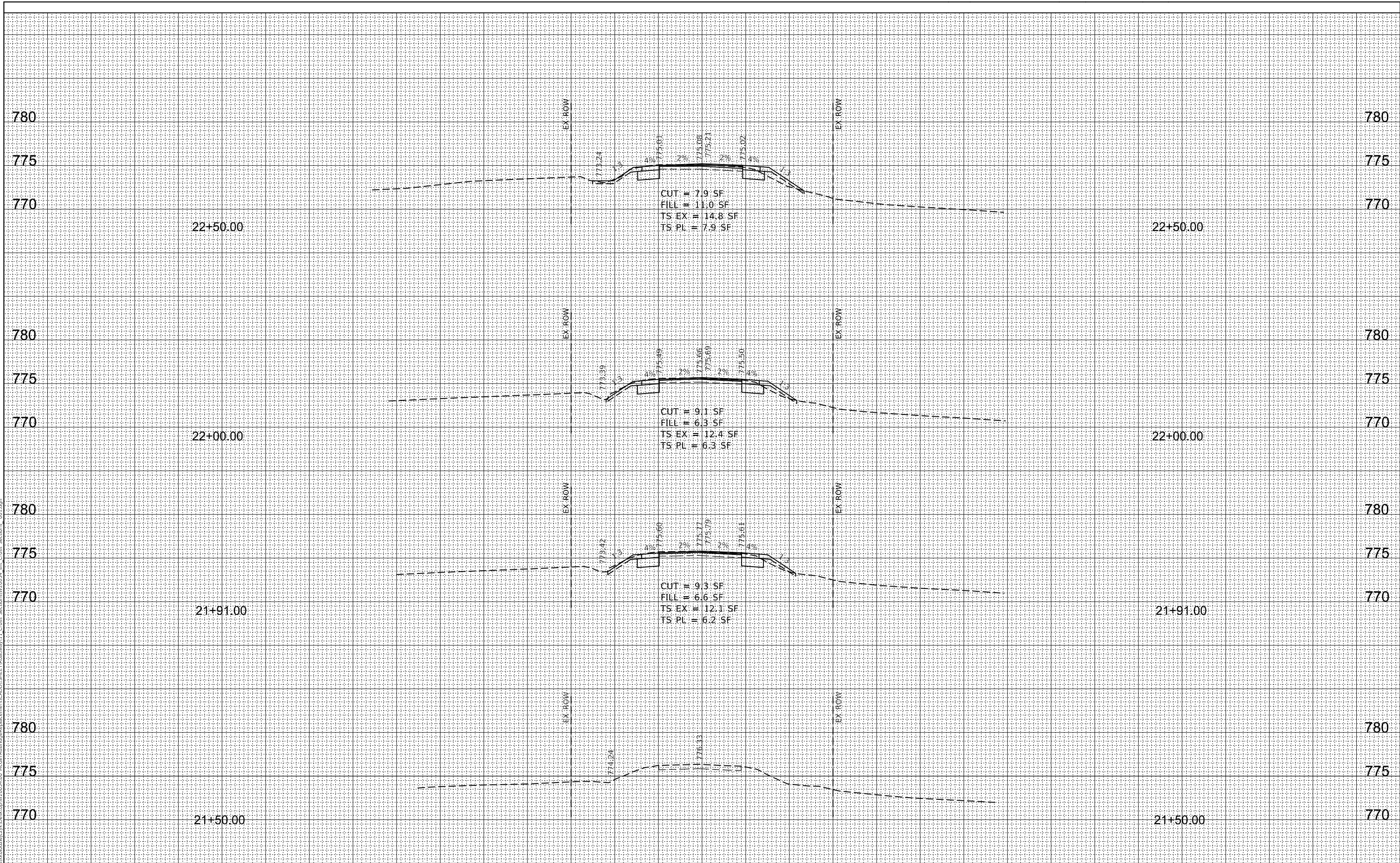
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	31
CONTRACT NO. 87739				
ILLINOIS		FED. AID PROJECT		

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



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

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	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - M. LANGE	REVISED -
PLOT DATE = 2/17/2021	DATE - 12-28-2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: SHEET 1 OF 8 SHEETS STA. 21+50 TO STA. 22+50

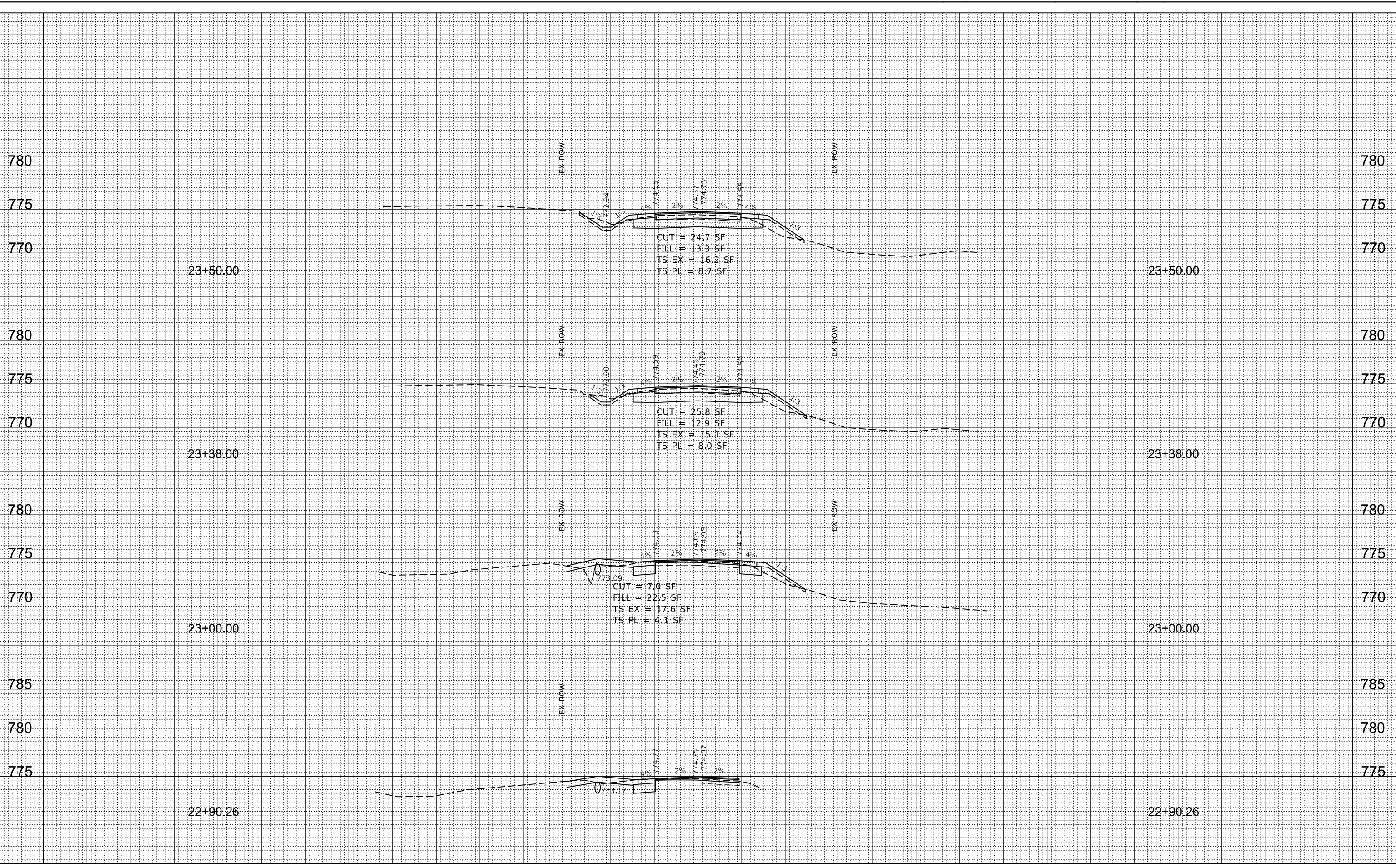
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	32
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

DATE	BY
NO.	
NO.	



DATE	BY
NO.	
NO.	

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DRAWN -	K. KOLODZIEJCZYK	CHECKED -	M. LANGE	REVISED -	
PLOT SCALE =	20.0000' / in.	DATE -	12-28-2020	REVISED -	
PLOT DATE =	2/17/2021				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 TR 175 (MCGIRR RD) OVER BATTLE CREEK**

SCALE: SHEET 2 OF 8 SHEETS STA. 22+90 TO STA. 23+50

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	33
CONTRACT NO. 87739				

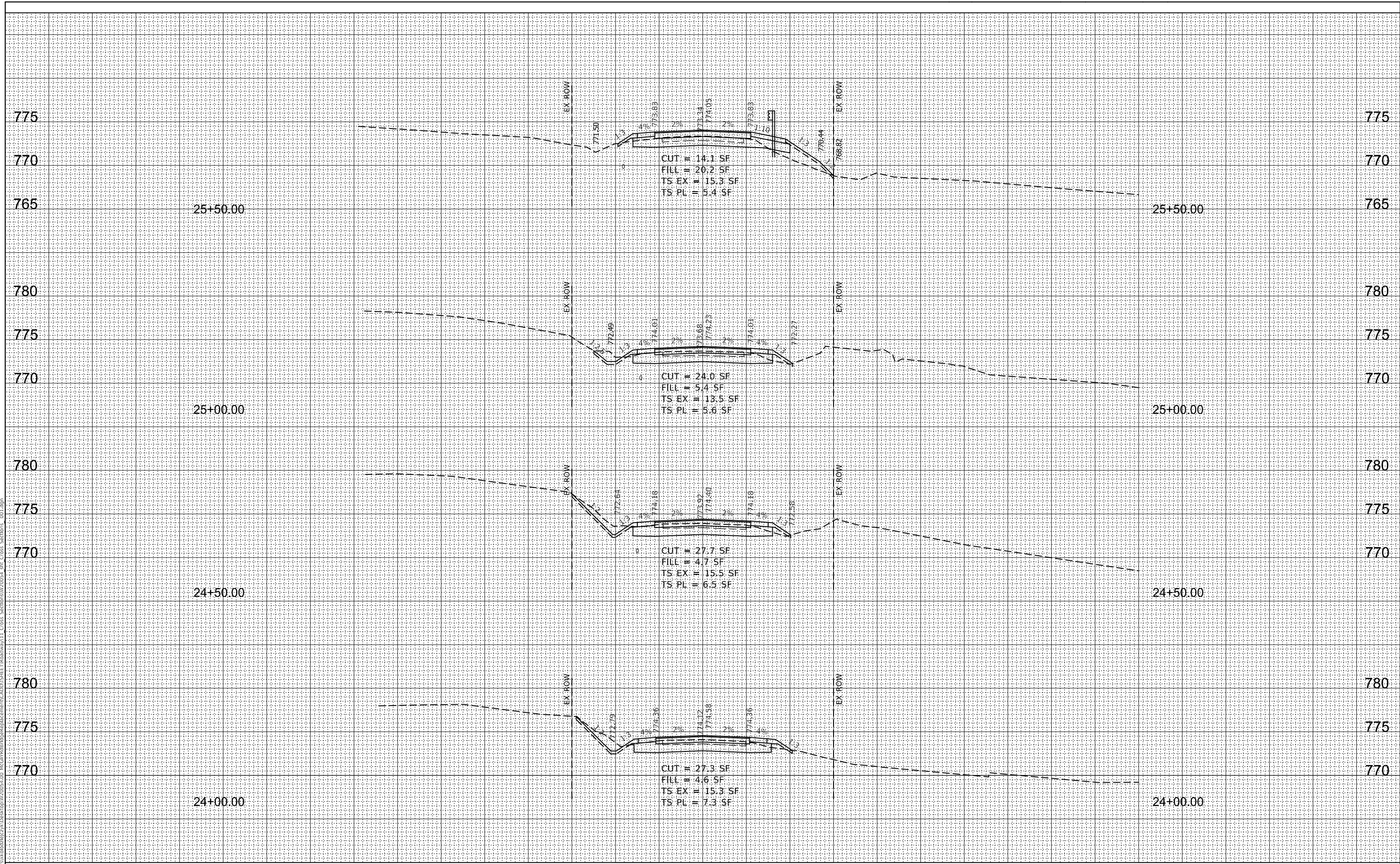
ILLINOIS FED. AID PROJECT

BY	DATE



BY	DATE

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USER NAME =	kkołodziejczyk
DESIGNED -	N. VARCHETTO
DRAWN -	K. KOŁODZIEJCZYK
CHECKED -	M. LANGE
DATE -	12-28-2020
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

SCALE: SHEET 3 OF 8 SHEETS STA. 24+00 TO STA. 25+50

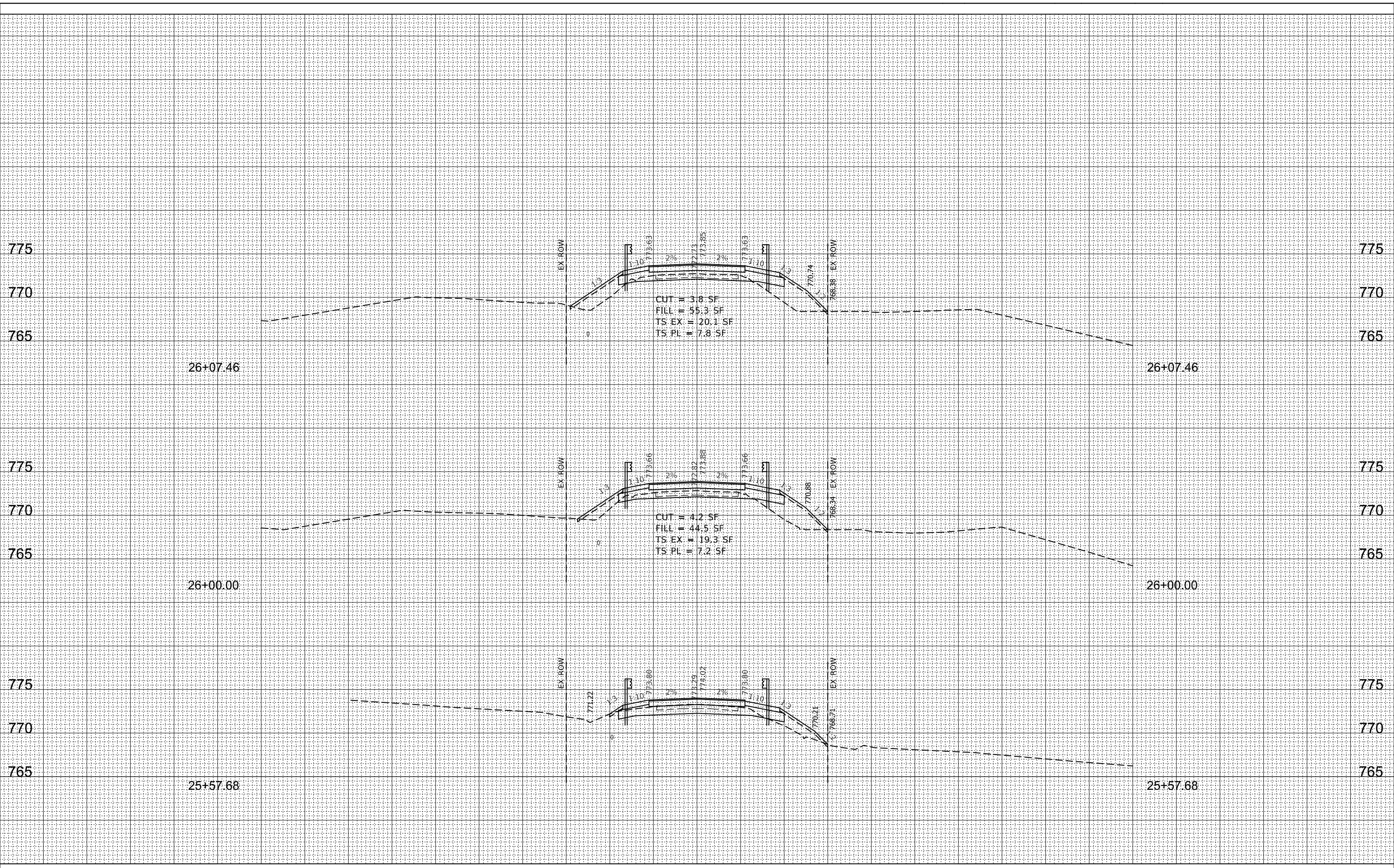
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	34
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

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



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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 12-28-2020	REVISED -

SCALE:	SHEET 4 OF 8 SHEETS	STA. 25+58 TO STA. 26+08
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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	35
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

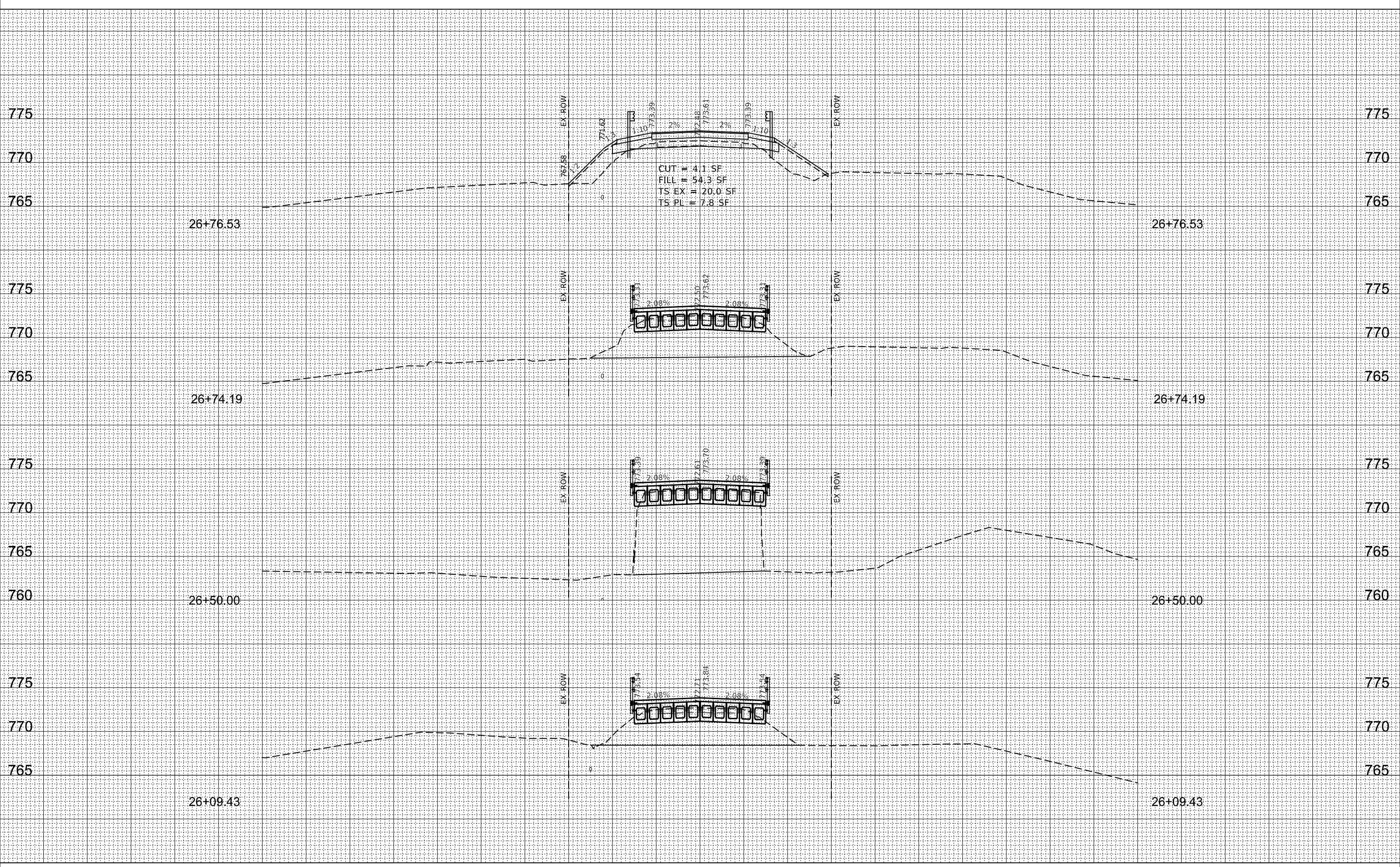
BY	DATE



BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

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USER NAME =	kolodziejczyk	DESIGNED -	N. VARCHETTO	REVISED -	
		DRAWN -	K. KOLODZIEJCZYK	REVISED -	
PLOT SCALE =	20.0000 ' / in.	CHECKED -	M. LANGE	REVISED -	
PLOT DATE =	2/17/2021	DATE -	12-28-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
TR 175 (MCGIRR RD) OVER BATTLE CREEK

SCALE: SHEET 5 OF 8 SHEETS STA. 26+09 TO STA. 26+76

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	36
				CONTRACT NO. 87739

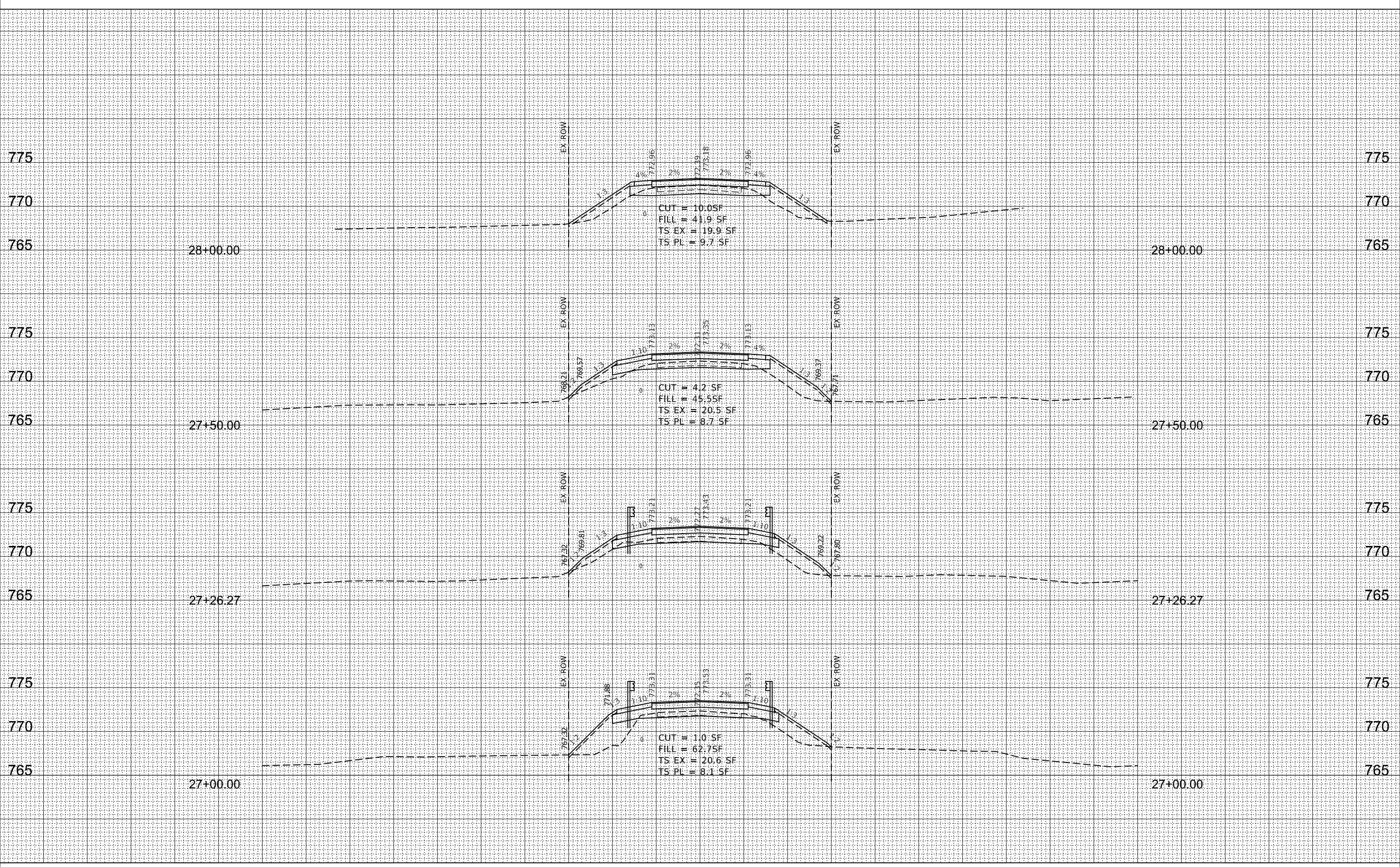
ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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USER NAME =	kkolodziejczyk	DESIGNED -	N. VARCHETTO	REVISED -	
		DRAWN -	K. KOLODZIEJCZYK	REVISED -	
PLOT SCALE =	20.0000' / in.	CHECKED -	M. LANGE	REVISED -	
PLOT DATE =	2/17/2021	DATE -	12-28-2020	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
TR 175 (MCGIRR RD) OVER BATTLE CREEK	
SCALE:	SHEET 6 OF 8 SHEETS
	STA. 27+00 TO STA. 28+00

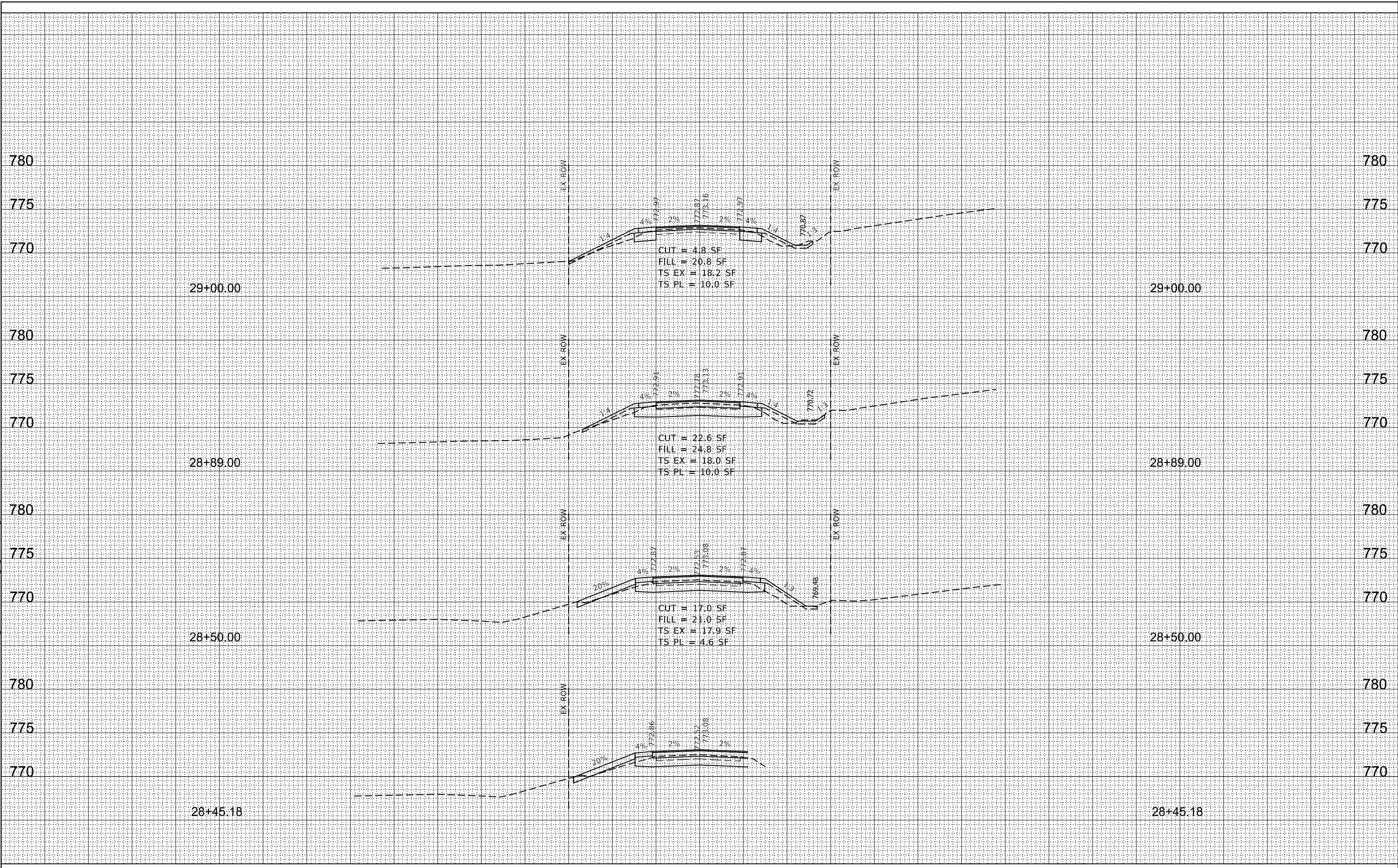
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	37
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

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



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

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USER NAME = kkolodziejczyk	DESIGNED - N. VARCHETTO	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - K. KOLODZIEJCZYK	REVISED -
PLOT DATE = 2/17/2021	CHECKED - M. LANGE	REVISED -
	DATE - 12-28-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
TR 175 (MCGIRR RD) OVER BATTLE CREEK**

SCALE: SHEET 7 OF 8 SHEETS STA. 28+45 TO STA. 29+00

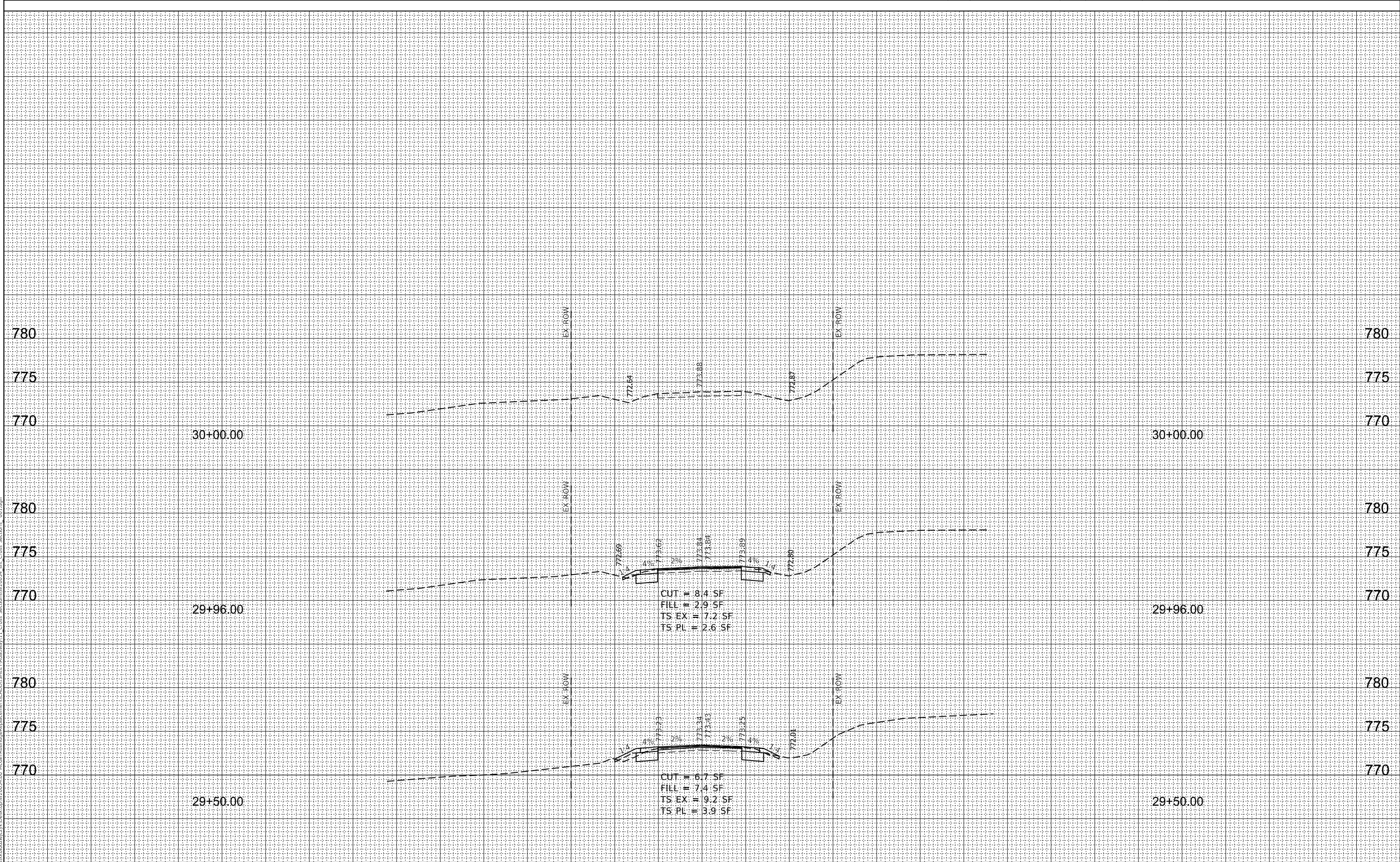
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	388
CONTRACT NO. 87739				
ILLINOIS FED. AID PROJECT				

BY	DATE
FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED



BY	DATE
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

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		DRAWN -	K. KOLODZIEJCZYK	REVISED -	
PLOT SCALE =	20.0000 ' / in.	CHECKED -	M. LANGE	REVISED -	
PLOT DATE =	2/17/2021	DATE -	12-28-2020	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
TR 175 (MCGIRR RD) OVER BATTLE CREEK	
SCALE:	SHEET 8 OF 8 SHEETS
STA. 29+50	TO STA. 30+00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
175	15-12119-01-BR	DEKALB	39	39
			CONTRACT NO. 87739	
			ILLINOIS FED. AID PROJECT	