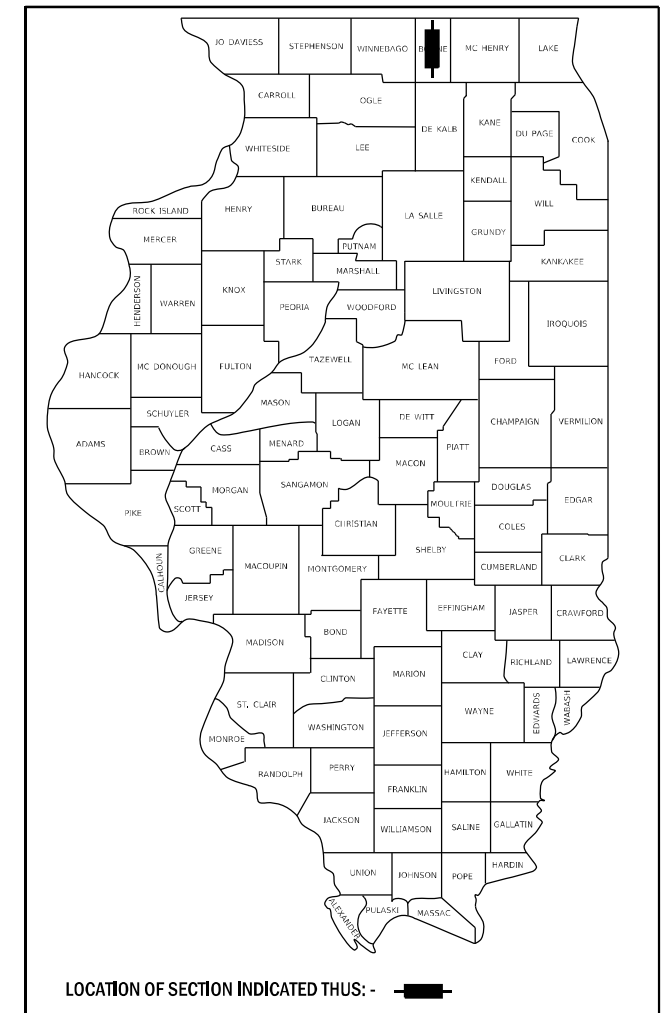


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	1
		ILLINOIS	CONTRACT NO. 64N48	

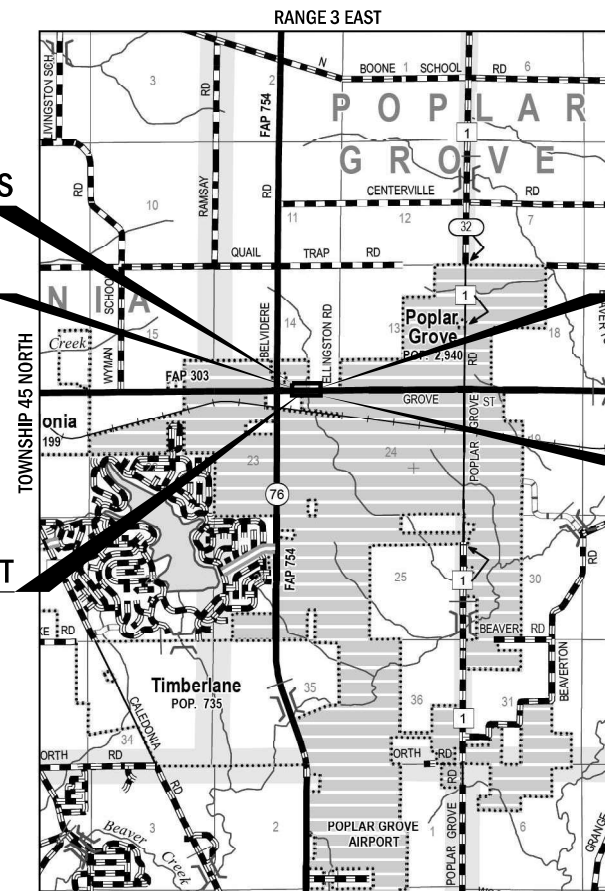
D-92-014-19



# PROPOSED HIGHWAY PLANS

FAP 303 (IL ROUTE 173)  
OVER UN-NAMED TRIBUTARY TO BEAVER CREEK  
SECTION 130CR  
PROJECT NHPP-ACNI(857)  
REPLACEMENT OF BOX CULVERT  
(E.S.N. 004-1022)  
BOONE COUNTY

C-92-088-20



IMPROVEMENT BEGINS  
STA 249+00.00  
SECTION BEGINS  
STA 252+37.00

SECTION ENDS  
STA 253+37.00

IMPROVEMENT ENDS  
STA 255+75.00

CULVERT IMPROVEMENT  
STA 252+62  
EXIST SN 004-1022  
STA 252+96  
PROP SN 004-1030

GROSS/NET LENGTH = 1,400.00 FT. = 0.265 MILE

**INDEX OF SHEETS**

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

**HIGHWAY CLASSIFICATION**

F.A.P. ROUTE 303 (IL ROUTE 173)  
CLASSIFICATION: US ROUTE  
ADT: 4,650 (2019) PV = 4,635  
DESIGN SPEED: 55 MPH MU = 230  
POSTED SPEED: 55 MPH SU = 285



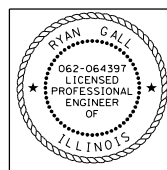
10/15/2021

**YEMI O. OYEWOLE**  
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-058164  
EXPIRATION DATE 11-30-2021  
SHEETS 01-16, 23-29, 52-83



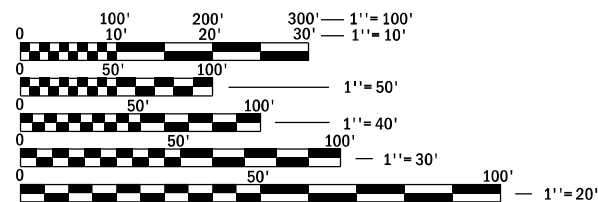
10/15/2021

**JIAHONG ZUO**  
ILLINOIS REG. STRUCTURAL ENGINEER NO. 081-006794  
EXPIRATION DATE 11-30-2022  
SHEETS 31-40



10/15/2021

**RYAN GALL**  
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-064397  
EXPIRATION DATE 11-30-2021  
SHEETS 17-22, 30 & 84-90



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.

**POPLAR GROVE TOWNSHIP 14 & 23**

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

**DISTRICT 2**

PROJECT ENGINEER: FAITH DUNCAN, P.E.  
PROJECT MANAGER: CHAD SPREEMAN, P.E. (815) 284-5934  
EMAIL: CHAD.SPREEMAN@ILLINOIS.GOV  
CONTRACT NO. 64N48

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 10/14 20 21

*[Signature]*  
REGIONAL ENGINEER

December 10 20 21

*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

December 10 20 21

*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

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1	COVER SHEET
2	INDEX OF SHEETS & HIGHWAY STANDARDS
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11-12	TYPICAL SECTIONS
13-16	SCHEDULE OF QUANTITIES
17	ALIGNMENT, TIES & BENCHMARKS
18	PLAN & PROFILE
19-22	EROSION AND SEDIMENT CONTROL PLANS
23	MAINTENANCE OF TRAFFIC NOTES AND STAGING
24-25	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
26-29	MAINTENANCE OF TRAFFIC PLANS
30	PAVEMENT MARKING PLANS
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41	DELINEATOR AND POST ORIENTATION (37.4)
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41	SUBGRADE REPLACEMENT (97.4)
42	FIELD TILE JUNCTION VAULTS 2' AND 3' DIA (30.2)
42	INLET STAND PIPE (34.2)
43	PAVEMENT SURVEY MARKERS, TYPE II (66.2)
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45-48	WORK ZONE SIGN DETAILS (34.1)
49-51	TYPICAL PAVEMENT MARKINGS (41.1)
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60-67	IL 173 CULVERT REPLACEMENT CROSS SECTIONS - STAGE I
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84-88	CROSS SECTIONS - IL 173
89-90	CROSS SECTIONS - CHANNEL

## LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C & D PATCHES
542411-00	SLOPED METAL END SECTIONS FOR PIPE CULVERTS
515001-04	NAME PLATE FOR BRIDGES
542411-00	SLOPED METAL END SECTIONS FOR PIPE CULVERTS
635001-02	DELINEATORS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701316-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS >= 45MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

FILE NAME = Z:\2018\1810228\_PTB189\cadd\Civil\Drawings\173\_IL\_173D26-4N48-Index\_01.dgn

**WBK ENGINEERING**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = ---	DRAWN - SS	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 173 CULVERT REPLACEMENT INDEX OF SHEETS &amp; HIGHWAY STANDARDS</b>			
SCALE: N/A	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	2
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

# GENERAL NOTES

1. ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
2. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1A. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.
4. FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING.
5. PREVIOUSLY PUGMILLED STOCKPILES OF "TYPE A" OLDER THAN 1 MONTH WILL NOT BE APPROVED FOR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.
6. ALL "AGGREGATE SUBGRADE IMPROVEMENT" (SECTION 303), SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 311.04, 311.05, 311.05(A), 311.06 AND 311.07. ALL AGGREGATE SUBGRADE THICKNESSES EQUAL TO OR LESS THAN 12 INCHES SHALL BE CONSTRUCTED OF AGGREGATE OF CA02 GRADATION. ALL AGGREGATE SUBGRADE THICKNESSES GREATER THAN 12 INCHES SHALL BE CONSTRUCTED OF CS02.
7. CLASS C PATCHES SHALL BE TIED TO THE ADJACENT LANE WHEN THE PATCHES ARE MORE THAN 20 FT. THE COST OF THE TIE BARS SHALL BE INCLUDED IN THE COST OF THE PATCH.
8. PLACEMENT AND COMPACTION OF THE BACKFILL FOR THE PROPOSED ACROSS ROAD CULVERTS AND EXISTING ACROSS ROAD CULVERTS THAT ARE REMOVED, SHALL CONFORM TO ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE MATERIAL, EITHER PRODUCTION AGGREGATE OR EXCAVATED MATERIAL, SHALL CONFORM TO ARTICLE 208.02 OF THE STANDARD SPECIFICATIONS, AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE TOP ONE FOOT OF TRENCH BACKFILL SHALL BE GRADATION CA06 OR CA10, BENEATH THE PROPOSED PAVEMENT/PATCH. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED PAVEMENT/PATCH. IMPERVIOUS MATERIAL SHALL BE USED ON THE OUTER 3 FEET AT EACH END OF THE CULVERT. THE TRENCH BACKFILL MATERIAL WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 502.12, NOT TO EXCEED 2 FEET OUTSIDE THE STRUCTURE.
9. COST OF REMOVAL AND DISPOSAL OF MATERIAL FROM THE TEMPORARY PATCH SHALL BE INCLUDED IN AGGREGATE BASE COURSE, TYPE B.
10. THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.
11. THE NEW NUMBER FOR THIS STRUCTURE WILL BE ~~004-1030~~.
12. CULVERT & BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
13. BOX CULVERTS THAT ARE STAGE CONSTRUCTED AND UNDERCUT BY MORE THAN 2 FEET SHALL HAVE LEAN CONCRETE PLACED ON THE ROCK FILL AT THE STAGE LINE. THE CONCRETE SHALL RETAIN THE ROCK FILL UNTIL THE SECOND STAGE ROCK FILL IS PLACED. THIS WORK WILL BE INCLUDED IN THE PAY ITEM FOR THE TYPE OF ROCK FILL USED. A PRECAST BOX CULVERT IS NOT AN OPTION ON THE PROJECT DUE TO SOIL CONDITIONS.
14. THE EXCAVATED MATERIALS FROM EARTH EXCAVATION WIDENING, GRADING AND SHAPING DITCHES, AND EXCAVATING AND GRADING SHOULDERS SHALL BE USED TO BUILD UP THE SHOULDER THROUGHOUT THE JOB TO CONFORM WITH THE TYPICAL SECTIONS AND SHOULDER WIDENING FOR TERMINALS AS SHOWN ON THE PLANS.
15. THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (TANGENT) OR STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE I SPECIAL (FLARED).
16. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION:	IL 173		
MIXTURE USE:	SURFACE	MAINLINE BINDER	SHOULDER BINDER
PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION (MIXTURE GRADATION):	IL 9.5	IL 9.5	IL 9.5
FRICITION AGGREGATE:	"D"	N/A	N/A
MIXTURE WEIGHT:	112 lb/sy/in	N/A	N/A
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:		N/A	
NUMBER OF ROLLER PASSES:		N/A	

1) WHEN A NUMBER OF ROLLERS PASSES IS SPECIFIED, THE CONTRACTOR MAY OPT TO USE INTELLIGENT COMPACTION IN LIEU OF DENSITY TESTING UNDER THE QUALITY CONTROL OF PERFORMANCE (QCP) PROGRAM

17. THE PROPOSED PIPES FOR ENTRANCES AND SIDE ROADS SHALL BE PLACED IN LINE WITH THE EXISTING OR PROPOSED DITCH LINE.
18. MAILBOXES SHALL BE MOUNTED ON A 4" X 4" WOOD POST 41 -45" ABOVE THE SHOULDER SURFACE AND EXTENDING 24" INTO THE EMBANKMENT OR TO THE CURRENT UNITED STATES POSTAL SERVICE MAILBOX GUIDELINES. THIS WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.
19. DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180° AND ONLY METAL-BACKED DELINEATORS SHALL BE PERMITTED. DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, AND AT EACH HEADWALL OR END SECTION OF AR CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR DELINEATORS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.
21. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
  - 1.ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
  - 2.ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
  - 3.THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
  - 4.CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED,AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.
22. PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT INTERVALS OF 1 MILE OR AS DIRECTED BY THE ENGINEER. BRIDGE OR CULVERT PROJECTS SHALL HAVE ONE SURVEY MARKER PLACED NEAR THE STRUCTURE. ESTIMATED: 1 EACH.
23. PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2, OR ANOTHER OPTION WOULD BE TO INSTALL A VAULTED STYLE MONUMENT AS DESCRIBED BY NGS AS A 3D MONUMENT (TOP SECURITY SLEEVE ROD MONUMENT), WITH INSTALLATION NSTRUCTIONS PROVIDED BY THE DISTRICT CHIEF OF SURVEYS. IF POURED IN PLACE, THE BOTTOM OF THE MARKER SHALL BE 5'-0"BELOW THE GROUND SURFACE.
24. THE PERMANENT SURVEY MARKERS, IF POSSIBLE, SHALL BE INSTALLED AT THE BEGINNING OF THE JOB AND PROTECTED THROUGHOUT.
25. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE HORIZONTAL COORDINATES MUST BE DERIVED BY GPS AND THE ELEVATION DERIVED USING AN ELECTRONIC LEVEL. THE META DATA, SUCH AS THE GEOID USED, (NGS ADJUSTMENT IE: 97 HARN, 03, 07), AND THE BASE POINT(S) NAME OR NUMBER SHALL BE SUBMITTED ALONG WITH A COMPLETE COLLECTION LOG. IF COLLECTED USING RTK METHOD, IT WILL REQUIRE EITHER 3 COLLECTIONS (AVERAGED) FROM 2 DIFFERENT BASES, OR A MINIMUM OF 3 COLLECTIONS (AVERAGED), AT LEAST 2 HOURS APART, FROM THE SAME BASE. IF USING A CORS TYPE NETWORK, THE COLLECTION PROCEDURE SHALL INCLUDE LOCALIZING WITH CHECK SHOTS ON AT LEAST 2 DIFFERENT HARN MONUMENTS BOTH BEFORE AND AFTER COLLECTION. THE LEVEL CIRCUIT SHALL BE RUN FROM FURNISHED MARK TO FURNISHED MARK AND THEN ADJUSTED. THE ERROR OF CLOSURE SHALL BE SUBMITTED WITH THE ELECTRONIC LEVEL NOTES IN A RECOGNIZED FORMAT APPROVED BY THE ENGINEER AND/OR THE CHIEF OF SURVEYS. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE DISTRICT CHIEF OF SURVEYS.
26. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:
 

NICOR GAS COMPANY	630.388.3046
COMCAST CABLE	224.229.5432
MEDIACOM	815.716.0582
VILLAGE OF POPLAR GROVE	815.765.3201
FRONTIER (NORTH)	815.544.6171
COMMONWEALTH EDISON COMPANY	630.437.2212
27. IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.
28. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE MUNICIPALITY TO DETERMINE APPROVED METHODS OF UTILITY STRUCTURE ADJUSTMENT. UTILITY STRUCTURES MAY INCLUDE, BUT ARE NOT LIMITED TO, MANHOLES, WATER VALVES, HANDHOLES, ETC. ALL MATERIALS AND WORK NECESSARY TO COMPLETE ADJUSTMENTS PER MUNICIPALITY REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED ADJUSTMENT PAY ITEM.
29. RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.
30. WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.
31. THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:
 

STAGE 1 STATION 252+37 TO STATION 253+37  
STAGE 2 STATION 252+37 TO STATION 253+37
32. THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.
33. RIGHT-OF-WAY MARKERS WILL BE ERECTED PER HIGHWAY STANDARD 666001 WITH THE BACK FACE OF THE MARKER ON THE RIGHT-OF-WAY LINE, UNLESS THE NEW RIGHT-OF-WAY LINE HAS BEEN SURVEYED AND PINNED, IN WHICH INSTANCE THE RIGHTOFWAY MARKERS WILL BE ERECTED 12 INCHES INSIDE THE NEW RIGHT-OF-WAY LINE. THE METHOD OF INSTALLATION SHALL BE APPROVED BY THE ENGINEER.

### COMMITMENTS

1. TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT WILL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30. THE US FISH AND WILDLIFE SERVICE CONCURED WITH OUR DETERMINATION AND DATE RESTRICTION ON TREE CLEARING ON 07/08/2017.
2. THE NATIONAL WETLANDS INVENTORY SHOWS WETLANDS IN THE VICINITY OF THE PROJECT LOCATION. A SURVEY FOR WETLANDS WAS CONDUCTED WITHIN THE ENVIRONMENTAL SURVEY REQUEST LIMITS FOR THE PROPOSED IMPROVEMENTS. ALL POTENTIAL SITES WERE EXAMINED AND TWO WERE DETERMINED TO BE WETLANDS. THE PROJECT SPONSOR WILL CONSIDER LOCATION AND DESIGN ALTERNATIVES TO AVOID AND MINIMIZE ADVERSE WETLAND IMPACTS TO THE EXTENT PRACTICAL. AFTER THE EXTENT OF IMPACTS IS DETERMINED, A WETLAND IMPACT EVALUATION (WIE) FORM WILL BE COMPLETED AND SUBMITTED TO TEH IDOT BUREU OF DESIGN AND ENVIRONMENT. UNAVOIDABLE ADVERSE WETLAND IMPACTS ARE SUBJECT TO THE APPLICABLE RATIOS SPECIFIED IN 17 III. ADM. CODE PART 1090.50(c)(8). IF THE PROJECT WILL AVOID ADVERSE WETLAND IMPACTS, THE WIE SHOULD REFLECT THE DETERMINATION THAT ADVERSE WETLAND IMPACTS WILL NOT OCCUR.

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	USER NAME = kcartopassi	DESIGNED - KAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 173 CULVERT REPLACEMENT GENERAL NOTES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = ---	CHECKED - YOO	REVISED -		SCALE: N/A	SHEET 1	OF 1 SHEETS	STA.	TO STA.	303	130CR	BOONE	90	3
	PLOT DATE = 10/13/2021	DATE - 10/15/2021	REVISED -						CONTRACT NO.64N48			ILLINOIS FED. AID PROJECT		

# SUMMARY OF QUANTITIES

CONSTRUCTION CODE
80% FED 20% STATE
CULVERT 0004
URBAN

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	48
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	122
		20101000	TEMPORARY FENCE	FOOT	712
		20200100	EARTH EXCAVATION	CU YD	2,450
		20700220	POROUS GRANULAR EMBANKMENT	CU YD	527
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	640
		21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	50
		25000110	SEEDING, CLASS 1A	ACRE	0.25
		25000210	SEEDING, CLASS 2A	ACRE	0.75
		25000314	SEEDING, CLASS 4B	ACRE	0.25
		25000324	SEEDING, CLASS 5B	ACRE	0.25
		25000750	MOWING	ACRE	0.75
		25000775	SELECTIVE MOWING STAKES	EACH	8
		25100630	EROSION CONTROL BLANKET	SQ YD	3,669

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# SUMMARY OF QUANTITIES

CONSTRUCTION CODE
80% FED 20% STATE
CULVERT 0004
URBAN

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	24
		44004250	PAVED SHOULDER REMOVAL	SQ YD	1,205
		44201433	CLASS C PATCHES, TYPE IV, 16 INCH	SQ YD	301
		48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	150
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
		50105220	PIPE CULVERT REMOVAL	FOOT	47
		50200100	STRUCTURE EXCAVATION	CU YD	903
*		50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	436
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	55,920
		50800515	BAR SPLICERS	EACH	106
		51500100	NAME PLATES	EACH	1
		52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,000
		54003000	CONCRETE BOX CULVERTS	CU YD	215.4
		54215408	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"	EACH	2

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	WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = kcartopassi PLOT SCALE = 1:2 PLOT DATE = 10/13/2021	DESIGNED - KAC DRAWN - VLM CHECKED - YOO DATE - 10/15/2021	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 173 CULVERT REPLACEMENT SUMMARY OF QUANTITIES</b>	SCALE: NA SHEET 3 OF 7 SHEETS STA. NA TO STA. NA	F.A.P. RTE. 303 SECTION 130CR COUNTY BOONE TOTAL SHEETS 90 SHEET NO. 6 CONTRACT NO. 64N48 ILLINOIS FED. AID PROJECT
	REV. 12/10/21 REV. 10/26/21							

# SUMMARY OF QUANTITIES

CONSTRUCTION CODE
80% FED 20% STATE
CULVERT 0004
URBAN

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	420
		54260524	SLOPED METAL END SECTION, STANDARD 542411, 24", 1:6	EACH	2
		542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	74
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	214
		60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1
		60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	10
		60108300	PIPE UNDERDRAINS 8" (SPECIAL)	FOOT	10
		60108400	PIPE UNDERDRAINS 10" (SPECIAL)	FOOT	10
		61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	25
		61101011	STORM SEWERS PROTECTED, CLASS A, 10"	FOOT	25
		61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	25
		61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	1
		61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	1
		61139900	STORM SEWERS (SPECIAL), 6"	FOOT	25

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**WBK ENGINEERING, LLC**  
 115 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kccortopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
SUMMARY OF QUANTITIES**

SCALE: NA	SHEET 4 OF 7 SHEETS	STA. NA TO STA. NA
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	7
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES

CONSTRUCTION CODE
80% FED 20% STATE
CULVERT 0004
URBAN

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		61140000	STORM SEWERS (SPECIAL), 8"	FOOT	25
		61140100	STORM SEWERS (SPECIAL), 10"	FOOT	25
		61140200	STORM SEWERS (SPECIAL), 12"	FOOT	25
		63200310	GUARDRAIL REMOVAL	FOOT	203
		63500105	DELINEATORS	EACH	6
		66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	10
*		66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1
*		66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	260
*		66900530	SOIL DISPOSAL ANALYSIS	EACH	1
*		66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
*		66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
*		66901006	REGULATED SUBSTANCES MONITORING	CAL DA	1
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
		67100100	MOBILIZATION	L SUM	1

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**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
SUMMARY OF QUANTITIES**

SCALE: NA	SHEET 5	OF 7	SHEETS	STA. NA	TO STA. NA
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	8
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES

CONSTRUCTION CODE
80% FED 20% STATE
CULVERT 0004
URBAN

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1
		70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
		70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	7
		70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
		70106700	TEMPORARY RUMBLE STRIPS	EACH	3
		70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	170
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2,650
		70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	7,310
		70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	156
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	537.5
		70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	498
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	500
		70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2

FILE NAME = Z:\2018\180228\_PTB189\cad\Civil\Drawings\W013\_IL\_173\0264M48-500\_06.dgn

**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

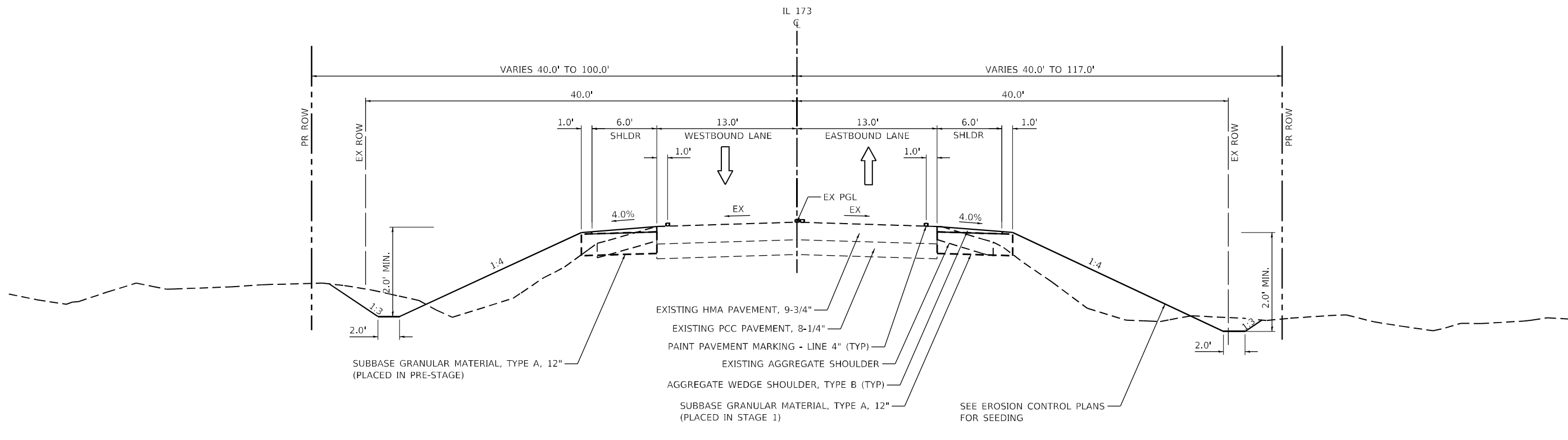
**IL 173 CULVERT REPLACEMENT  
SUMMARY OF QUANTITIES**

SCALE: NA SHEET 6 OF 7 SHEETS STA. NA TO STA. NA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	9
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				





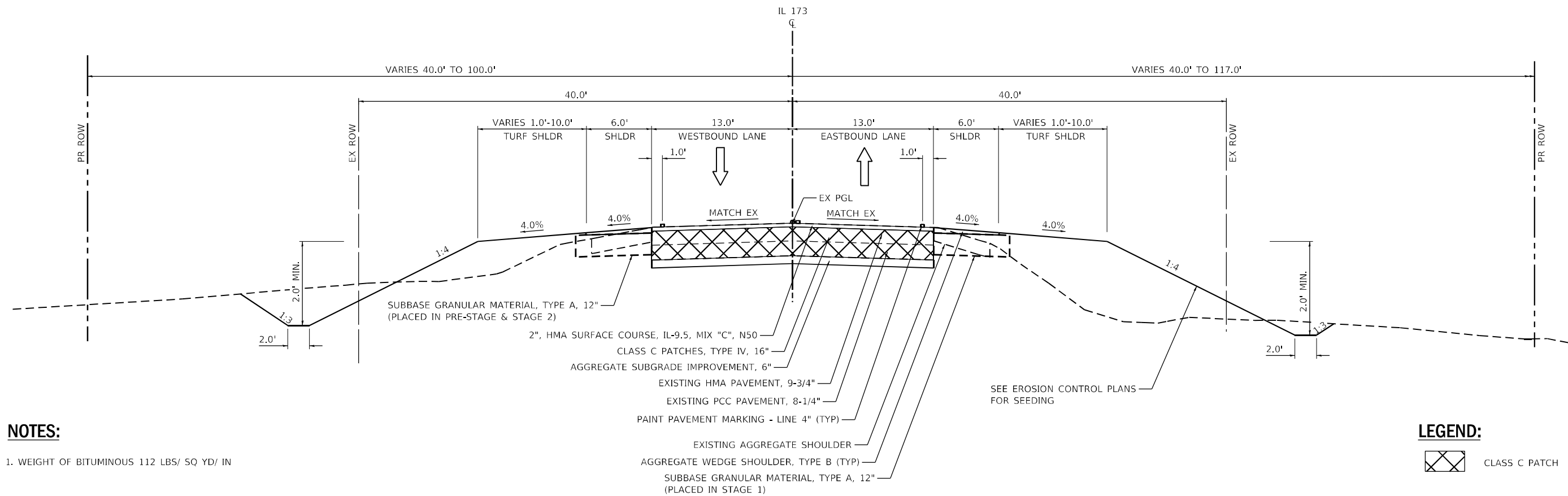


**TYPICAL SECTION**

IL 173 STA 249+00.00 TO STA 252+35.00  
 IL 173 STA 253+39.00 TO STA 255+75.00

**NOTES:**

1. WEIGHT OF BITUMINOUS 112 LBS/ SQ YD/ IN



**TYPICAL SECTION**

IL 173 STA 252+35.00 TO STA 252+78.57  
 IL 173 STA 253+13.43 TO STA 253+39.00

**LEGEND:**

 CLASS C PATCH

MODEL: D:\efk\1173\_Culvert\Design\Drawings\1173\_Culvert\1173\_Culvert.dwg  
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USER NAME = J.Berggren	DESIGNED - RG	REVISED -
PLOT SCALE = 1:10	DRAWN - JB	REVISED -
PLOT DATE = 10/6/2021	CHECKED - JH	REVISED -
	DATE - 09/15/2021	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	11
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				







# SCHEDULE OF QUANTITIES

## FIELD TILE CONTINGENCY

<u>60100060</u>	<u>CONCRETE HEADWALLS FOR PIPE DRAINS</u>
EACH	LOCATION
1	CONTINGENCY
<hr/>	
1	TOTAL

<u>60108200</u>	<u>PIPE UNDERDRAINS 6" (SPECIAL)</u>
FOOT	LOCATION
10	CONTINGENCY
<hr/>	
10	TOTAL

<u>60108300</u>	<u>PIPE UNDERDRAINS 8" (SPECIAL)</u>
FOOT	LOCATION
10	CONTINGENCY
<hr/>	
10	TOTAL

<u>60108400</u>	<u>PIPE UNDERDRAINS 10" (SPECIAL)</u>
FOOT	LOCATION
10	CONTINGENCY
<hr/>	
10	TOTAL

<u>61101009</u>	<u>STORM SEWERS PROTECTED CLASS A.8"</u>
FOOT	LOCATION
25	CONTINGENCY
<hr/>	
25	TOTAL

<u>61101011</u>	<u>STORM SEWERS PROTECTED, CLASS A.10"</u>
FOOT	LOCATION
25	CONTINGENCY
<hr/>	
25	TOTAL

<u>61101013</u>	<u>STORM SEWERS PROTECTED, CLASS A.12"</u>
FOOT	LOCATION
25	CONTINGENCY
<hr/>	
25	TOTAL

<u>61133100</u>	<u>FIELD TILE JUNCTION VAULTS, 2' DIA.</u>
EACH	LOCATION
1	CONTINGENCY
<hr/>	
1	TOTAL

## FIELD TILE CONTINGENCY

<u>61133200</u>	<u>FIELD TILE JUNCTION VAULT, 3' DIA</u>
EACH	LOCATION
1	CONTINGENCY
<hr/>	
1	TOTAL

<u>61139900</u>	<u>STORM SEWERS (SPECIAL), 6"</u>
FOOT	LOCATION
25	CONTINGENCY
<hr/>	
25	TOTAL

<u>61140000</u>	<u>STORM SEWERS (SPECIAL), 8"</u>
FOOT	LOCATION
25	CONTINGENCY
<hr/>	
25	TOTAL

<u>61140100</u>	<u>STORM SEWERS (SPECIAL), 10"</u>
FOOT	LOCATION
25	CONTINGENCY
<hr/>	
25	TOTAL

<u>61140200</u>	<u>STORM SEWERS (SPECIAL), 12"</u>
FOOT	LOCATION
25	CONTINGENCY
<hr/>	
25	TOTAL

<u>63200310</u>	<u>GUARDRAIL REMOVAL</u>			
FOOT	LOCATION	STA.	STA.	LT/RT
102	IL 173	252+00	253+02	RT
101	IL 173	252+26	253+26	LT
<hr/>				
203	TOTAL			

<u>63500105</u>	<u>DELINEATORS</u>		
EACH	LOCATION	STA.	REMARKS
1	IL 173	254+46	DRIVEWAY CULVERT
1	IL 173	254+74	DRIVEWAY CULVERT
1	IL 173	253+10	BOX CULVERT LT
1	IL 173	252+75	BOX CULVERT LT
1	IL 173	252+50	BOX CULVERT RT
1	IL 173	252+75	BOX CULVERT RT
<hr/>			
6	TOTAL		

<u>66600105</u>	<u>FURNISHING AND ERECTING RIGHT OF WAY MARKERS</u>		
EACH	LOCATION	STA.	REMARKS
1	IL 173	251+24.00	40.00' LT
1	IL 173	252+41.00	100.00' LT
1	IL 173	252+92.00	98.00' LT
1	IL 173	255+63.00	40.00' LT
1	IL 173	250+95.00	40.00' RT
1	IL 173	251+85.00	60.00' RT
1	IL 173	252+52.00	117.00' RT
1	IL 173	253+20.00	100.00' RT
1	IL 173	254+00.00	63.00' RT
1	IL 173	255+59.00	40.00' RT
<hr/>			
10	TOTAL		

<u>66700305</u>	<u>PERMANENT SURVEYMARKERS, TYPE II</u>	
EACH	STA.	LOCATION
1	253+10	AT CULVERT
<hr/>		
1	TOTAL	

<u>67000400</u>	<u>ENGINEER'S FIELD OFFICE, TYPE A</u>
CAL MO	LOCATION
6	
<hr/>	
6	TOTAL

<u>70100100</u>	<u>TRAFFIC CONTROL AND PROTECTION, STANDARD 701316</u>
EACH	LOCATION
1	STAGE 3
<hr/>	
1	TOTAL

<u>70100405</u>	<u>TRAFFIC CONTROL AND PROTECTION, STANDARD 701321</u>
EACH	LOCATION
1	STAGE 1&2
<hr/>	
1	TOTAL

<u>70100500</u>	<u>TRAFFIC CONTROL AND PROTECTION, STANDARD 701326</u>
EACH	LOCATION
1	STAGE 1&2
<hr/>	
1	TOTAL

<u>70103815</u>	<u>TRAFFIC CONTROL SURVEILLANCE</u>
CAL DA	LOCATION
5	PRE-STAGE
	STAGE 1
	STAGE 2
	STAGE 3
<hr/>	
2	TOTAL
<hr/>	
7	TOTAL

<u>70106500</u>	<u>TEMPORARY BRIDGE TRAFFIC SIGNALS</u>
EACH	LOCATION
1	
<hr/>	
1	TOTAL

<u>70106700</u>	<u>TEMPORARY RUMBLE STRIPS</u>
EACH	LOCATION
3	EB ONLY
<hr/>	
3	TOTAL

<u>70200100</u>	<u>NIGHTTIME WORK ZONE LIGHTING</u>
LSUM	LOCATION
1	CONTINGENCY
<hr/>	
1	TOTAL

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**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = awuellner	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:100	DRAWN - SS	REVISED -
PLOT DATE = 11/9/2021	CHECKED - YOO	REVISED -
	DATE - \$PDATE	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
SCHEDULE OF QUANTITIES**

SCALE: N/A	SHEET 3	OF 4	SHEETS	STA.	TO STA.
------------	---------	------	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	15
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT X				

# SCHEDULE OF QUANTITIES

<u>70300100 SHORT TERM PAVEMENT MARKING</u>			
FOOT	LOCATION	STA.	STA.
169.09	IL 173	247+96	257+26
170	<b>TOTAL</b>		

<u>70300150 SHORT TERM PAVEMENT MARKING REMOVAL</u>				
SQ FT	LOCATION	STA.	STA.	
56.4	IL 173	247+96	257+26	SHORT TERM PAVEMENT MARKINGS
903.3	IL 173	STAGE 1		TEMP PVMT MRKG LINE 4" TYPE IV TAPE
1030.0	IL 173	STAGE 2		TEMP PVMT MRKG LINE 4" TYPE IV TAPE
503.3	IL 173	STAGE 3		TEMP PVMT MRKG LINE 4" TYPE IV TAPE
52.5	IL 173	STAGE 1		TEMP PVMT MRKG LINE 24" TYPE IV TAPE
52.5	IL 173	STAGE 2		TEMP PVMT MRKG LINE 24" TYPE IV TAPE
52.5	IL 173	STAGE 3		TEMP PVMT MRKG LINE 24" TYPE IV TAPE
2,650	<b>TOTAL</b>			

<u>70307120 TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE</u>			
FOOT	LOCATION	REMARKS	
0	PRE-STAGE		
2710	STAGE 1	2 APPLICATIONS	
3090	STAGE 2	2 APPLICATIONS	
1510	STAGE 3	2 APPLICATIONS	
7310	<b>TOTAL</b>		

<u>70307210 TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE</u>			
FOOT	LOCATION	REMARKS	
0	PRE-STAGE		
52	STAGE 1	2 APPLICATIONS	
52	STAGE 2	2 APPLICATIONS	
52	STAGE 3	2 APPLICATIONS	
156	<b>TOTAL</b>		

<u>70400100 TEMPORARY CONCRETE BARRIER</u>			
FOOT	LOCATION	STA.	STA.
537.5	STAGE 1	249+66	254+95.5
537.5	<b>TOTAL</b>		

<u>70400125 PINNING TEMPORARY CONCRETE BARRIER</u>			
EACH	LOCATION	# OF TCB	REMARKS
0	PRE-STAGE	0	
258	STAGE 1	43	6 PINS PER TBC
240	STAGE 2	40	6 PINS PER TBC
0	STAGE 3	0	6 PINS PER TBC
498	<b>TOTAL</b>		

<u>70400200 RELOCATE TEMPORARY CONCRETE BARRIER</u>			
FOOT	LOCATION	STA.	STA.
500	STAGE 2	249+18	254+10.8
500	<b>TOTAL</b>		

<u>70600260 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3</u>	
EACH	LOCATION
2	STAGE 1
2	<b>TOTAL</b>

<u>70600332 IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3</u>	
EACH	LOCATION
2	STAGE 2
2	<b>TOTAL</b>

<u>72300100 INSTALL EXISTING SIGN PANEL</u>				
SQ FT	LOCATION	STA.	LT/RT	REMARKS
7	IL 173	251+31	29' LT	W3-1
6	IL 173	251+31	29' LT	W14-3
13	<b>TOTAL</b>			

<u>72400200 REMOVE SIGN PANEL ASSEMBLY - TYPE B</u>				
EACH	LOCATION	STA.	LT/RT	REMARKS
1	IL 173	251+31	29' LT	
1	<b>TOTAL</b>			

<u>72400310 REMOVE SIGN PANEL - TYPE 1</u>				
SQ FT	LOCATION	STA.	LT/RT	REMARKS
3	IL 173	252+00.0	21' RT	
3	IL 173	253+26.0	21' LT	
6	<b>TOTAL</b>			

<u>78001110 PAINT PAVEMENT MARKING - LINE 4"</u>					
FOOT	LOCATION	STA.	STA.	LT/CTR/RT	REMARKS
233	IL 173	247+96	257+26	CTR	YELLOW 30' SKIP 10' DASH
595	IL 173	251+31	257+26	CTR	YELLOW
930	IL 173	247+96	257+26	LT	WHITE
930	IL 173	247+96	257+26	RT	WHITE
2688	<b>SUBTOTAL</b>				
2	APPLICATIONS				
5376	<b>TOTAL</b>				

<u>78300202 PAVEMENT MARKING REMOVAL - WATER BLASTING</u>					
SQ FT	LOCATION	STA.	STA.	LT/CTR/RT	REMARKS
78	IL 173	247+96	257+26	CTR	4" WIDE YELLOW 30' SKIP 10' DASH
198	IL 173	251+31	257+26	CTR	4" WIDE YELLOW
310	IL 173	247+96	257+26	LT	4" WIDE WHITE
310	IL 173	247+96	257+26	RT	4" WIDE WHITE
896	<b>TOTAL</b>				

<u>Z0025505 PROPERTY MARKERS</u>	
EACH	LOCATION
4	CONTINGENCY
4	<b>TOTAL</b>

<u>Z0062456 TEMPORARY PAVEMENT</u>				
SQ YD	LOCATION	LENGTH	WIDTH	SQ FT
89	PRE STAGE	100	8	800
89	<b>TOTAL</b>			

FILE NAME = Z:\2018\180228\_PTB18189\cadd\Civil\SUBMITTAL\_PLOT\TWO13\_IL173\_Culvert\_Replacement21.1018\_Addendum\_1\CADD\_Submittal\CADD\_Sheets\264N48-shc-SCH00\_04.dgn

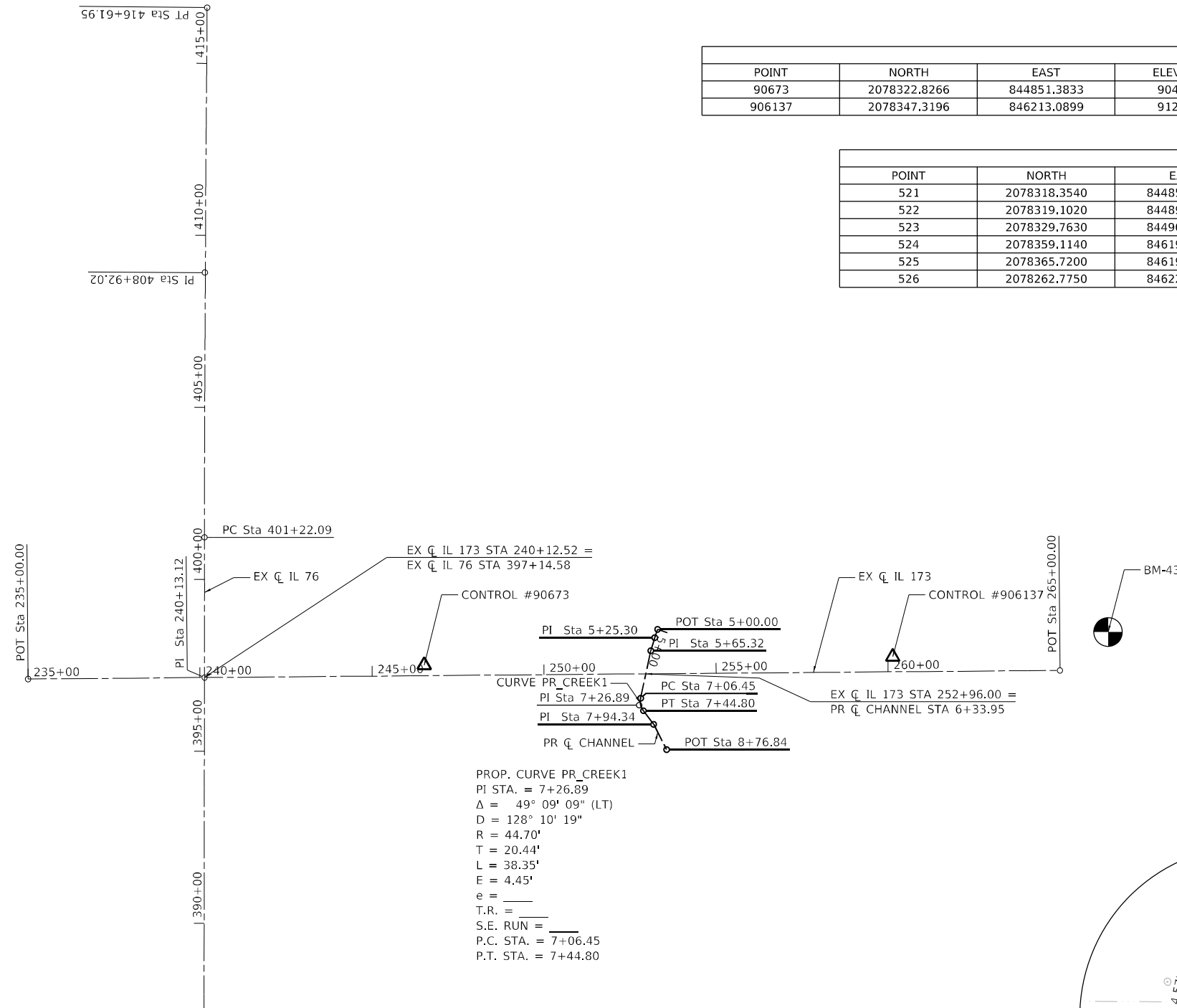


HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
90673	2078322.8266	844851.3833	904.7962	EXIL137BO	246+52.07	30.4750' LT	PHOTO CONTROL H. & V.
906137	2078347.3196	846213.0899	912.7017	EXIL137BO	260+13.94	43.6410' LT	PHOTO CONTROL H. & V.

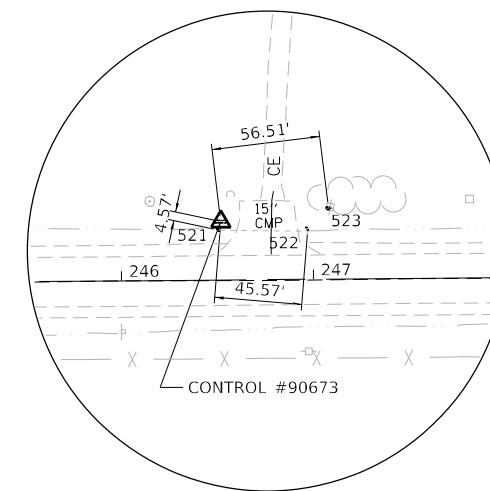
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POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION	
521	2078318.3540	844850.4380	EXIL137BO	246+51.09	26.0104' LT	CMP	
522	2078319.1020	844896.7960	EXIL137BO	246+97.45	26.3728' LT	CMP	
523	2078329.7630	844907.4610	EXIL137BO	247+08.21	36.9447' LT	POLE	
524	2078359.1140	846194.9210	EXIL137BO	259+95.87	55.5861' LT	WOOD POST SIGN SUPPORT	
525	2078365.7200	846192.4450	EXIL137BO	259+93.44	62.2124' LT	WOOD POST SIGN SUPPORT	
526	2078262.7750	846226.4190	EXIL137BO	260+26.56	41.0116' RT	FENCE POST	

ALIGNMENT COORDINATES - EX CL IL 173			
POINT	STATION	NORTH	EAST
POT	235+00.00	2078282.7014	843699.6047
PI	240+13.12	2078287.0381	844212.7055
POT	265+00.00	2078307.7230	846699.5004

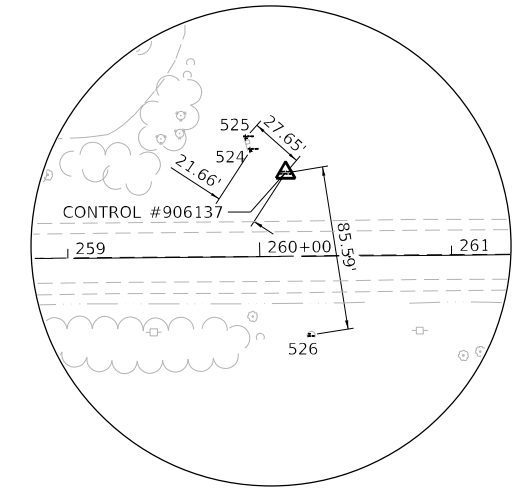
ALIGNMENT COORDINATES - PR CL CHANNEL			
POINT	STATION	NORTH	EAST
POT	5+00.00	2078427.0316	845529.7492
PI	5+25.30	2078403.0754	845521.6092
PI	5+65.32	2078364.8378	845509.8108
PC	7+06.45	2078226.7887	845480.4675
PI	7+26.89	2078206.7916	845476.2170
PT	7+44.80	2078190.4972	845488.5638
PI	7+94.34	2078151.0118	845518.4832
POT	8+76.84	2078077.5289	845555.9841



PROP. CURVE PR\_CREEK1  
 PI STA. = 7+26.89  
 $\Delta = 49^\circ 09' 09''$  (LT)  
 $D = 128^\circ 10' 19''$   
 $R = 44.70'$   
 $T = 20.44'$   
 $L = 38.35'$   
 $E = 4.45'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 $P.C. STA. = 7+06.45$   
 $P.T. STA. = 7+44.80$



**HORIZONTAL CONTROL  
POINT NO. 90673**



**HORIZONTAL CONTROL  
POINT NO. 906137**

**BENCHMARK 437**  
 TOP OF R.O.W. MARKER  
 $\pm 0.5$  MILES EAST OF INTERSECTION OF IL 173 & IL 76  
 STA. 266+40.90, 110.62' LT  
 N 2078419.5090  
 E 846839.4760  
 EL 909.7030

**BENCHMARK 78110**  
 PERMANENT SURVEY MARKER  
 SE QUADRANT OF INTERSECTION OF IL 173 & IL 76  
 STA. 241+54.14, 39.32' RT  
 N 2078248.8973  
 E 844354.0505  
 EL 916.3873

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
ALIGNMENT, TIES, & BENCHMARKS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	17
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

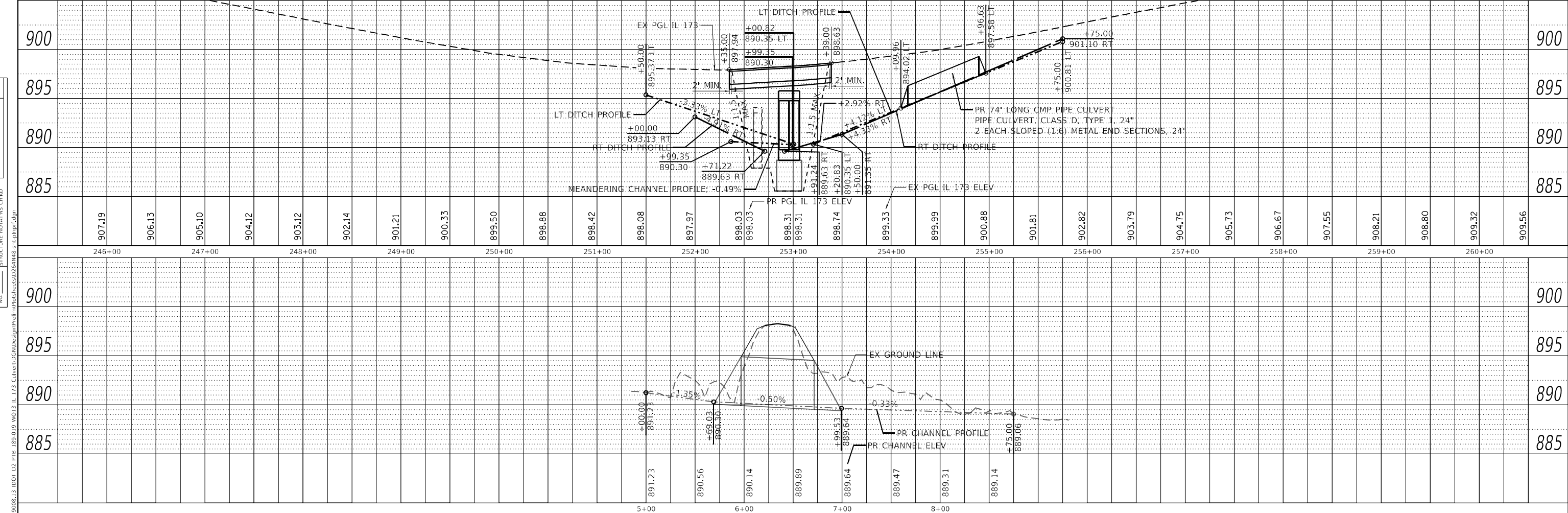
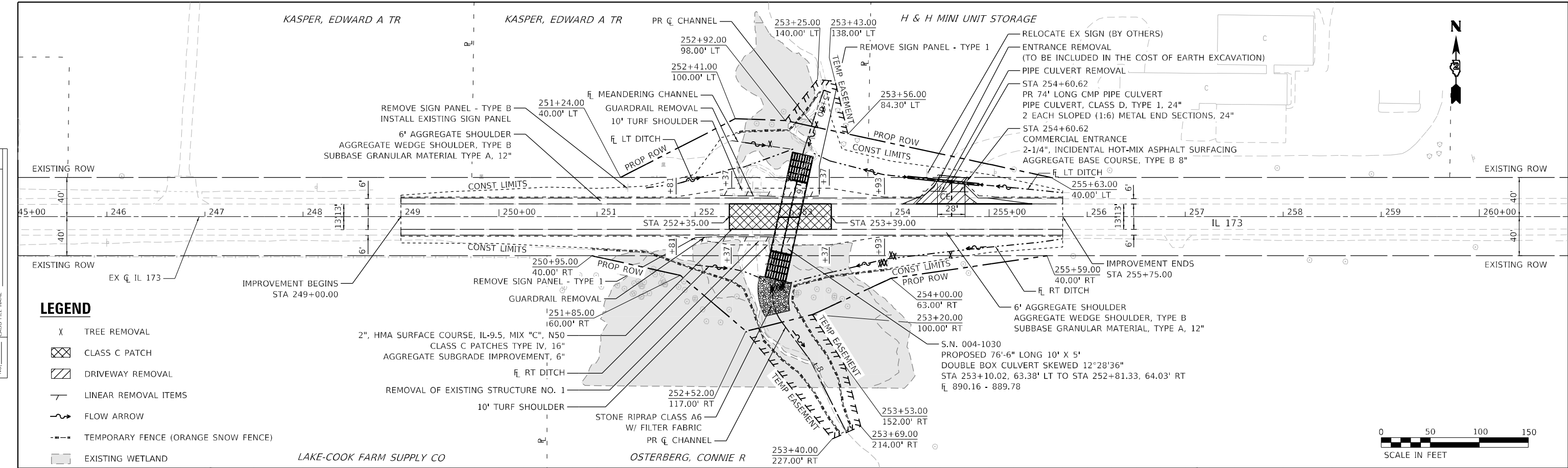
**EFK Moen**  
Civil Engineering Design

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PLOT DATE = 10/6/2021	CHECKED - JH	REVISED -
	DATE - 09/15/2021	REVISED -

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**EFK Moen**  
Civil Engineering Design

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PLOT DATE = 10/6/2021	CHECKED - JH	REVISED -
	DATE - 09/15/2021	REVISED -

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

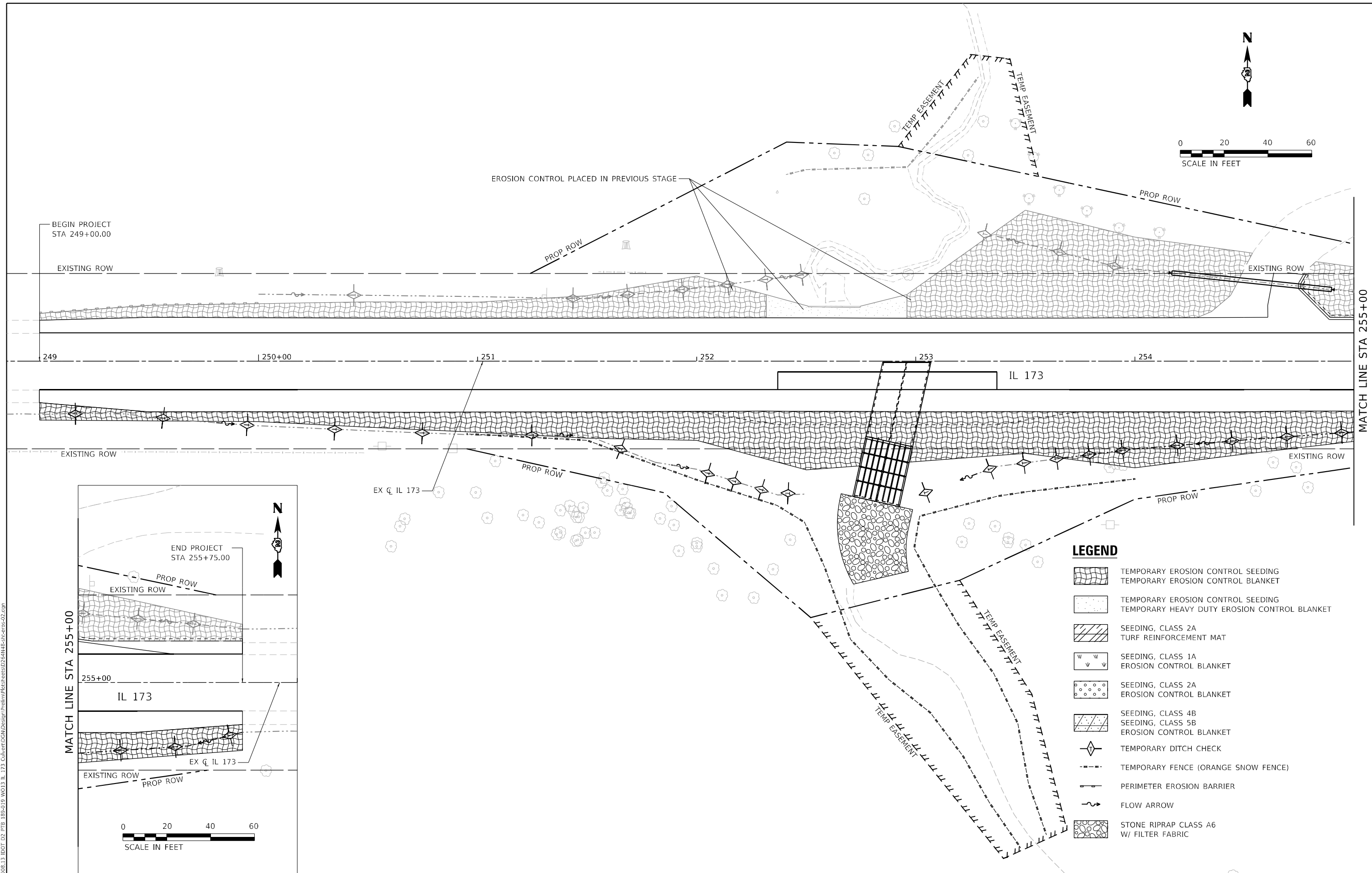
**IL 173 CULVERT REPLACEMENT**  
**PLAN & PROFILE**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 18
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

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MATCH LINE STA 255+00

BEGIN PROJECT  
STA 249+00.00

EXISTING ROW

249

250+00

251

252

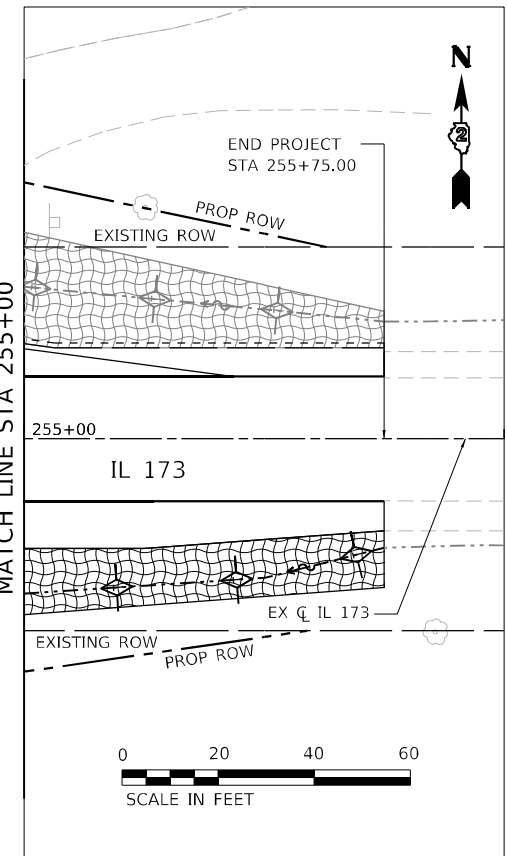
253

IL 173

254

EXISTING ROW

EXISTING ROW



END PROJECT  
STA 255+75.00

EXISTING ROW

255+00

IL 173

EXISTING ROW

EXISTING ROW



**LEGEND**

- TEMPORARY EROSION CONTROL SEEDING
- TEMPORARY EROSION CONTROL BLANKET
- TEMPORARY EROSION CONTROL SEEDING  
TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 2A
- TURF REINFORCEMENT MAT
- SEEDING, CLASS 1A
- EROSION CONTROL BLANKET
- SEEDING, CLASS 2A
- EROSION CONTROL BLANKET
- SEEDING, CLASS 4B
- SEEDING, CLASS 5B
- EROSION CONTROL BLANKET
- TEMPORARY DITCH CHECK
- TEMPORARY FENCE (ORANGE SNOW FENCE)
- PERIMETER EROSION BARRIER
- FLOW ARROW
- STONE RIPRAP CLASS A6  
W/ FILTER FABRIC

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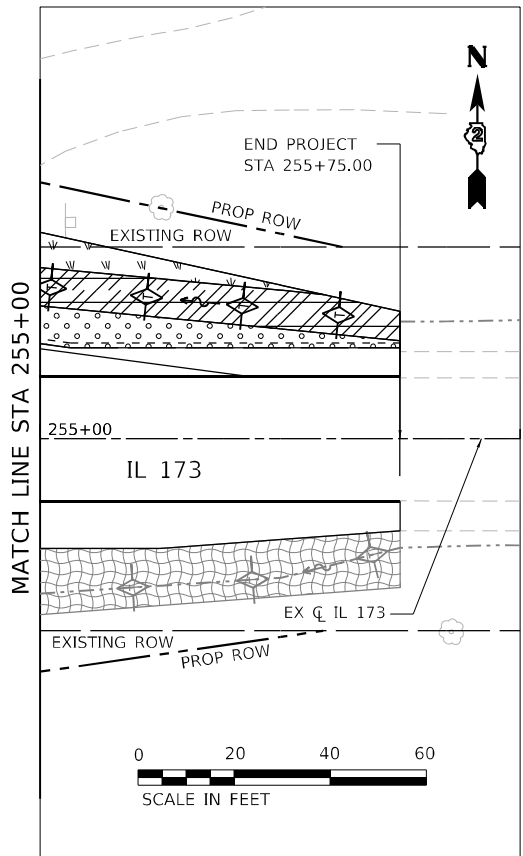
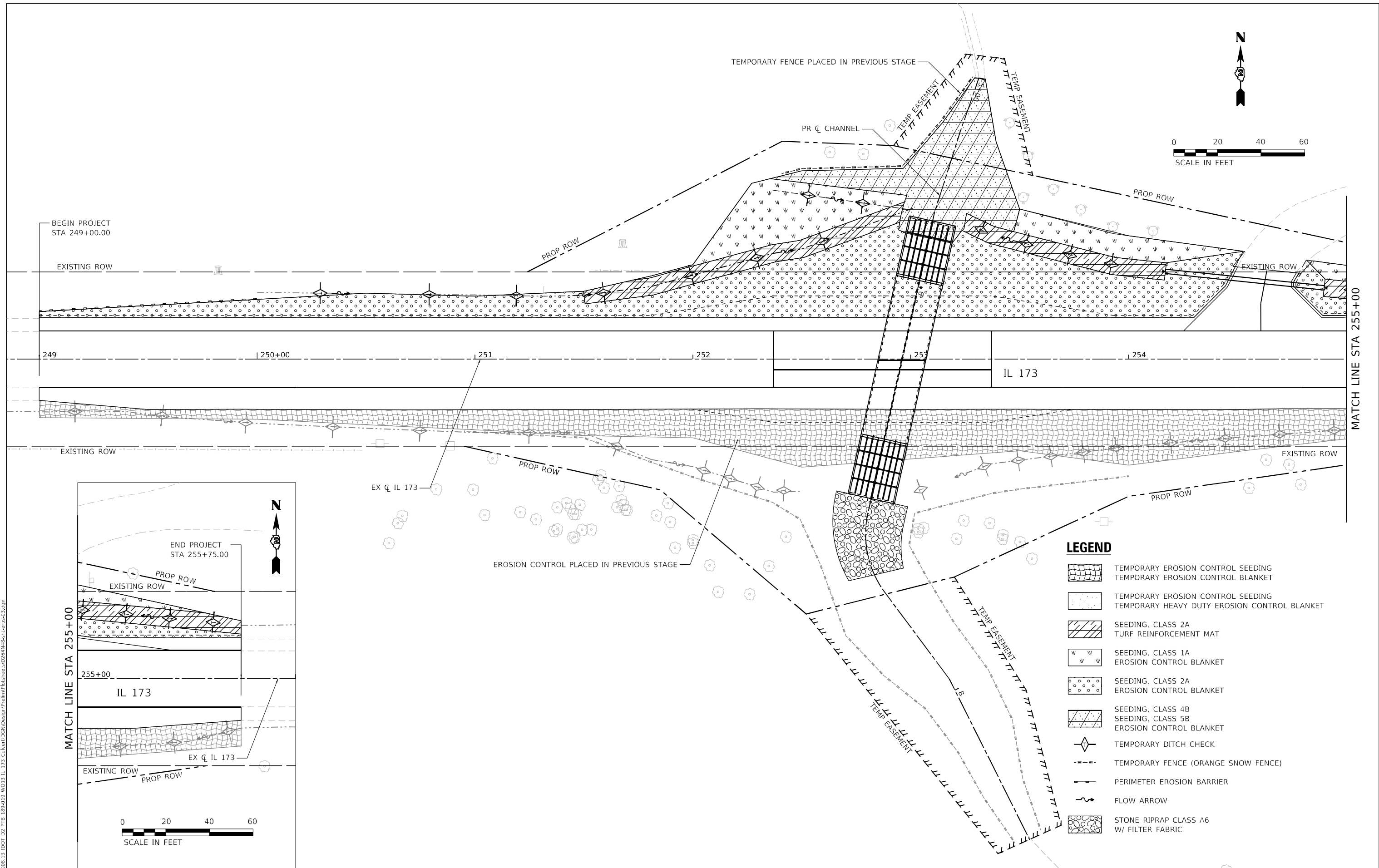
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PLOT DATE = 10/6/2021	DATE - 09/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
EROSION CONTROL - STAGE 1**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	20
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- TEMPORARY EROSION CONTROL SEEDING
  - TEMPORARY EROSION CONTROL BLANKET
  - TEMPORARY EROSION CONTROL SEEDING  
TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
  - SEEDING, CLASS 2A
  - TURF REINFORCEMENT MAT
  - SEEDING, CLASS 1A
  - EROSION CONTROL BLANKET
  - SEEDING, CLASS 2A
  - EROSION CONTROL BLANKET
  - SEEDING, CLASS 4B
  - SEEDING, CLASS 5B
  - EROSION CONTROL BLANKET
  - TEMPORARY DITCH CHECK
  - TEMPORARY FENCE (ORANGE SNOW FENCE)
  - PERIMETER EROSION BARRIER
  - FLOW ARROW
  - STONE RIPRAP CLASS A6  
W/ FILTER FABRIC

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**EFK Moen**  
Civil Engineering Design

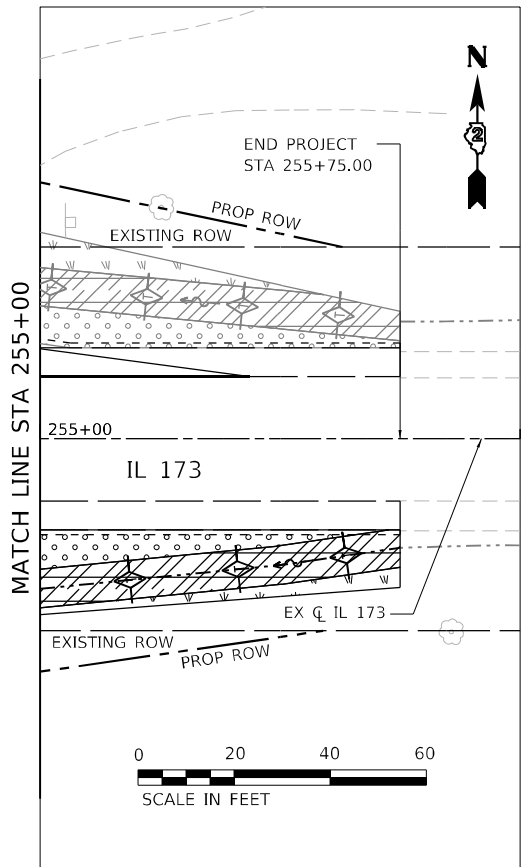
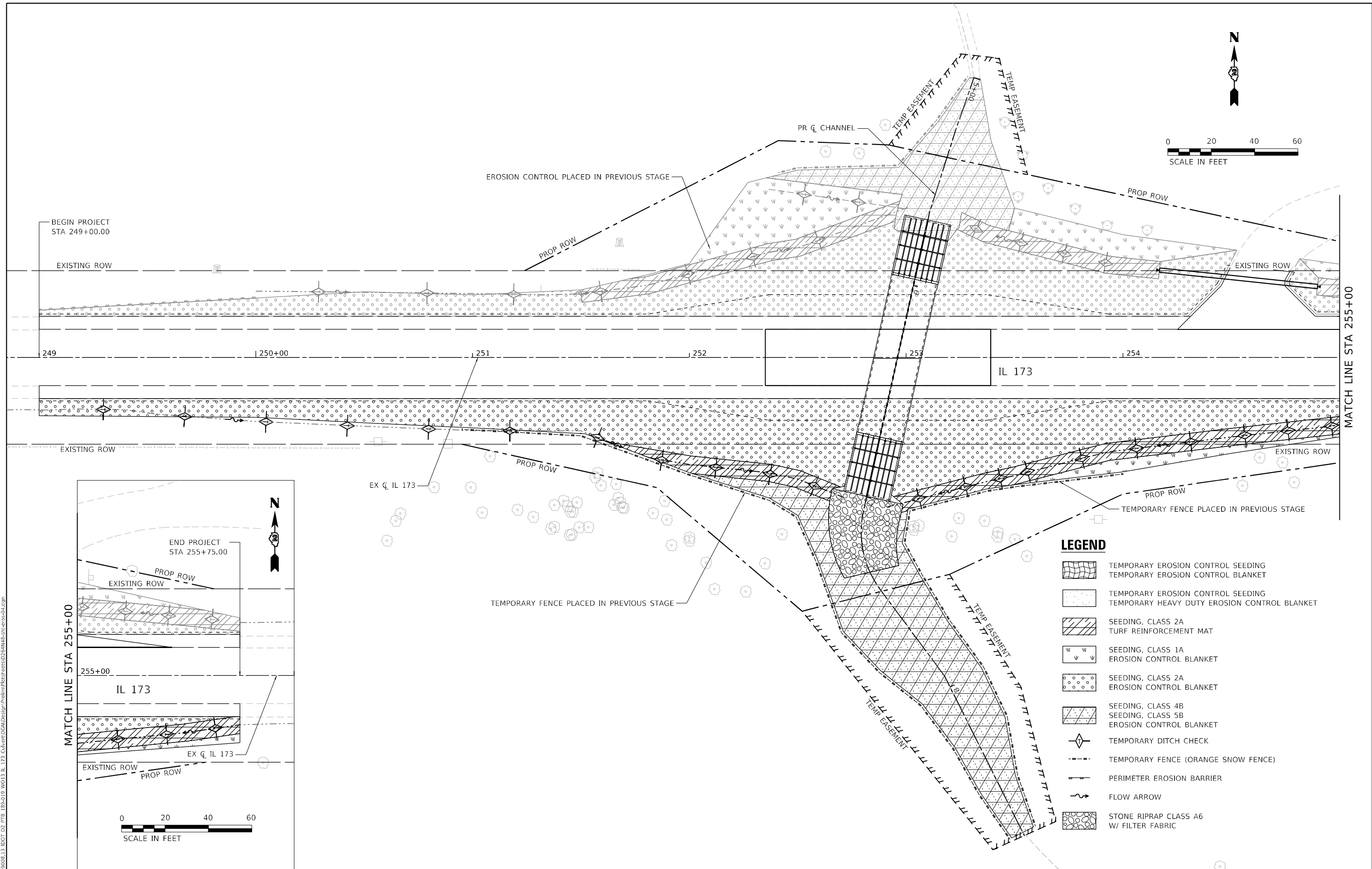
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	DATE - 09/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
EROSION CONTROL - STAGE 2**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	21
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



**LEGEND**

	TEMPORARY EROSION CONTROL SEEDING
	TEMPORARY EROSION CONTROL BLANKET
	TEMPORARY EROSION CONTROL SEEDING TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
	SEEDING, CLASS 2A
	TURF REINFORCEMENT MAT
	SEEDING, CLASS 1A
	EROSION CONTROL BLANKET
	SEEDING, CLASS 2A
	EROSION CONTROL BLANKET
	SEEDING, CLASS 4B
	SEEDING, CLASS 5B
	EROSION CONTROL BLANKET
	TEMPORARY DITCH CHECK
	TEMPORARY FENCE (ORANGE SNOW FENCE)
	PERIMETER EROSION BARRIER
	FLOW ARROW
	STONE RIPRAP CLASS A6 W/ FILTER FABRIC

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USER NAME = jBerggren	DESIGNED - RG	REVISED -
PLOT SCALE = 1:40	DRAWN - JB	REVISED -
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	DATE - 09/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

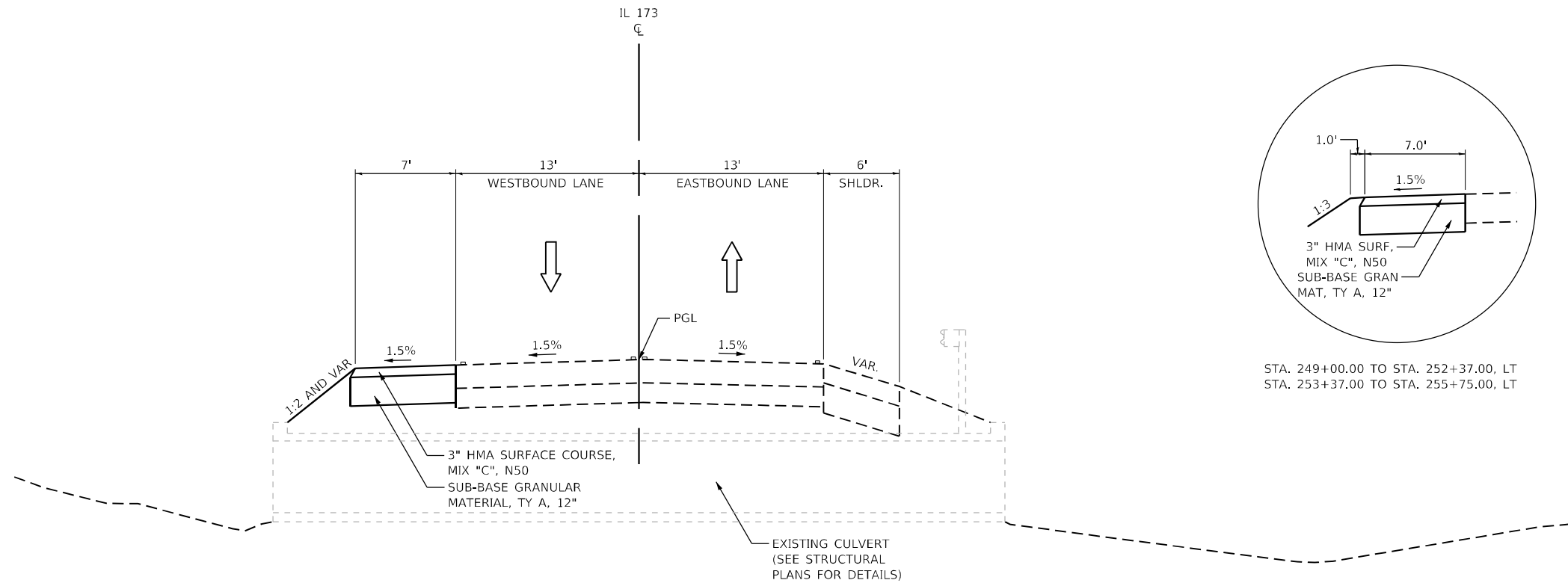
**IL 173 CULVERT REPLACEMENT  
EROSION CONTROL - STAGE 3**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 22
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

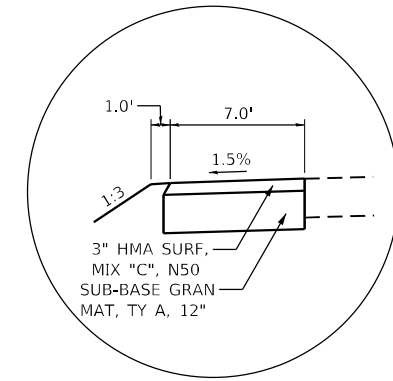




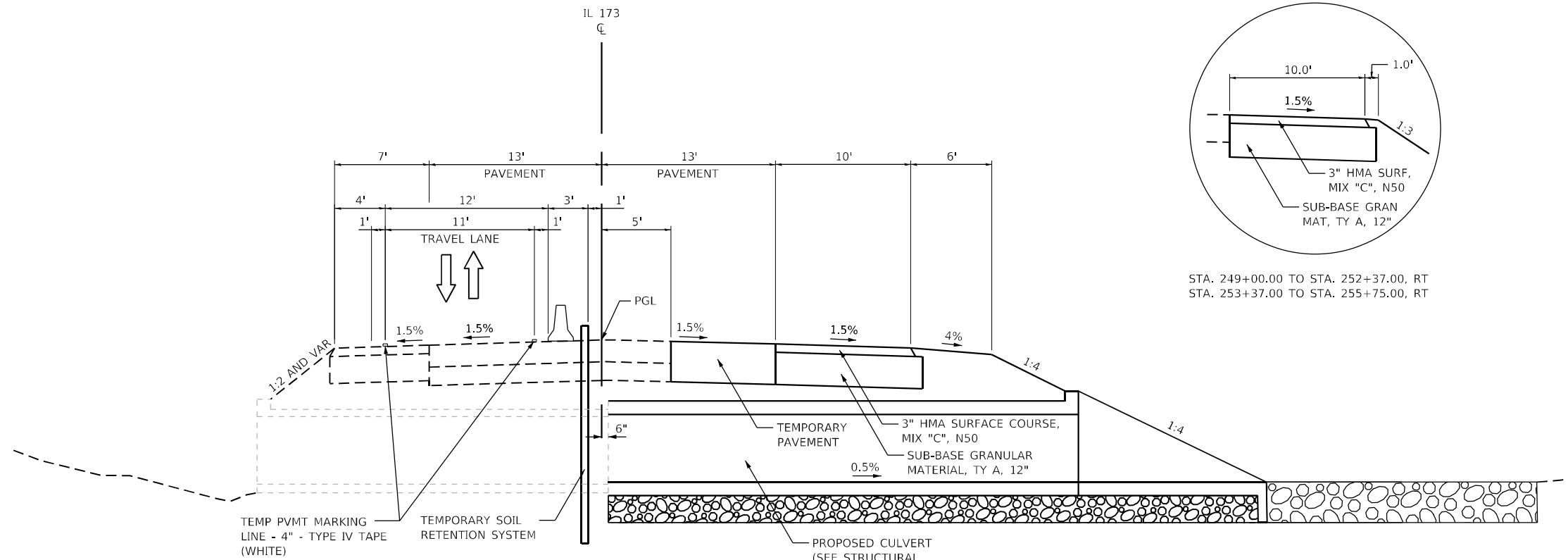


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STA. 252+37.00 TO STA. 253+37.00

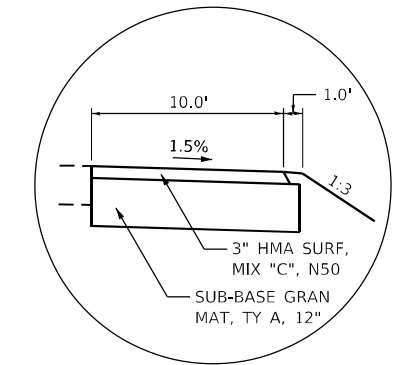


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STA. 253+37.00 TO STA. 255+75.00, LT

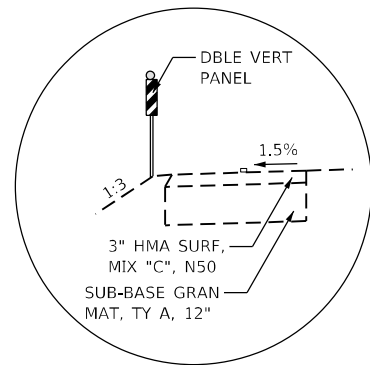


**TYPICAL SECTION - STAGE 1**

STA. 252+37.00 TO STA. 253+37.00



STA. 249+00.00 TO STA. 252+37.00, RT  
STA. 253+37.00 TO STA. 255+75.00, RT



STA. 249+00.00 TO STA. 252+37.00, LT  
STA. 253+37.00 TO STA. 255+75.00, LT

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**WBK ENGINEERING, LLC**  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

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DESIGNED - KAC  
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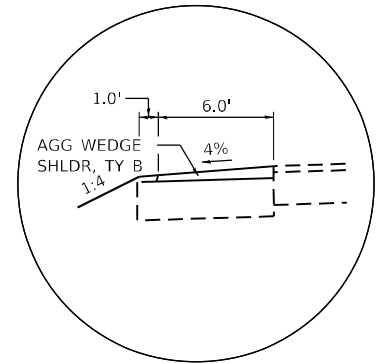
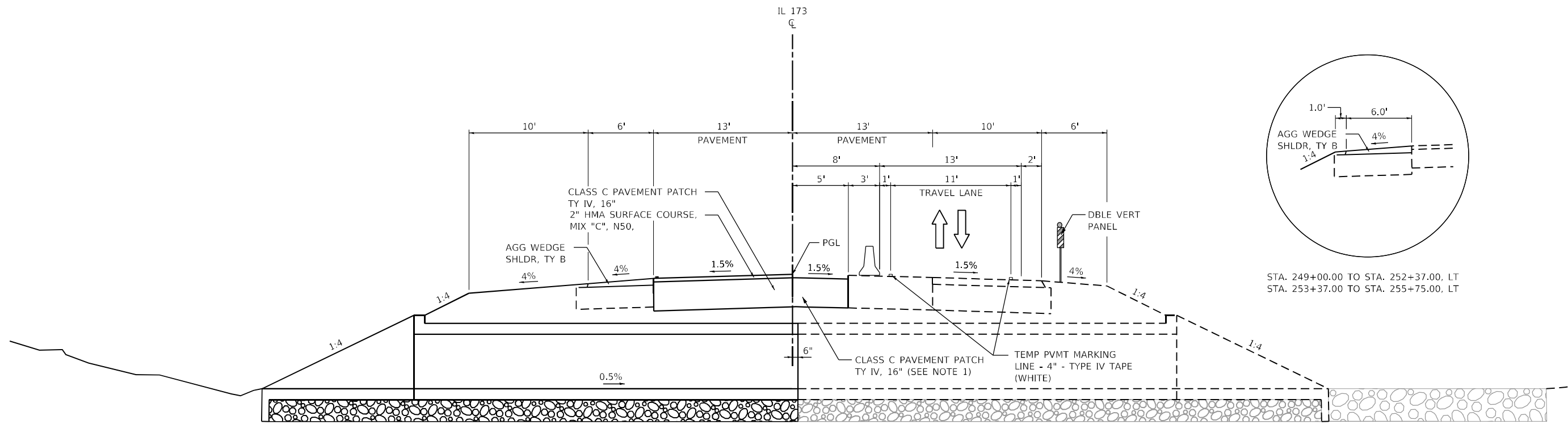
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DATE - 10/15/2021  
REVISED -  
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REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS**

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

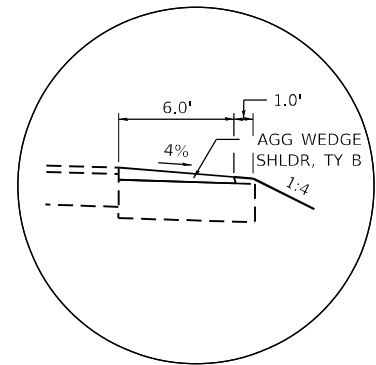
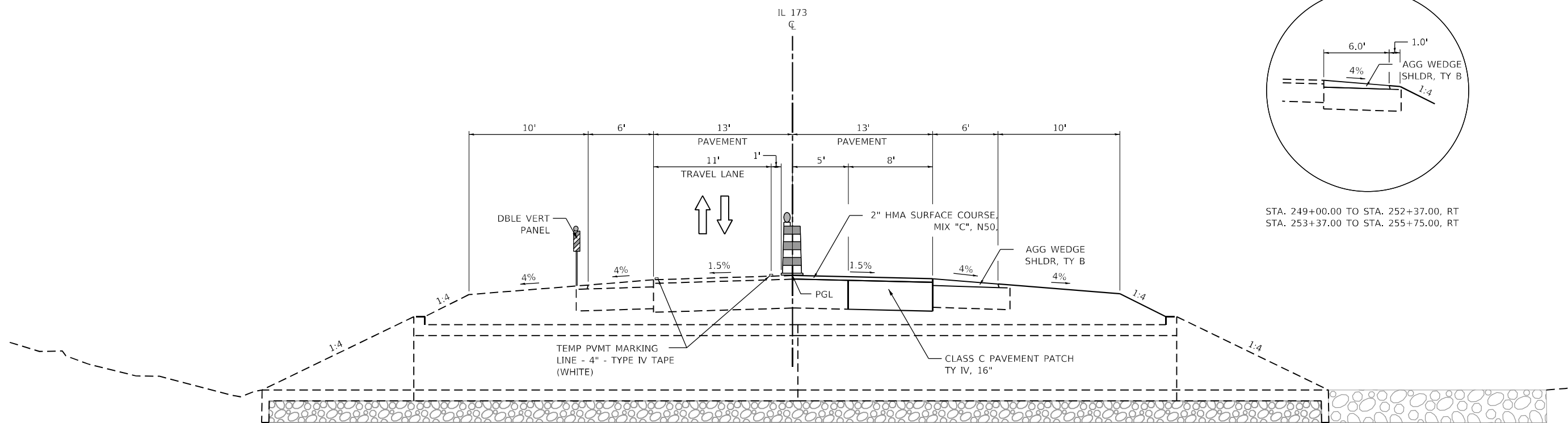
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303	130CR	BOONE	90	24
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



STA. 249+00.00 TO STA. 252+37.00, LT  
STA. 253+37.00 TO STA. 255+75.00, LT

**TYPICAL SECTION - STAGE 2**

STA. 252+37.00 TO STA. 253+37.00



STA. 249+00.00 TO STA. 252+37.00, RT  
STA. 253+37.00 TO STA. 255+75.00, RT

**TYPICAL SECTION - STAGE 3**

STA. 252+37.00 TO STA. 253+37.00

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**WBK ENGINEERING**  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

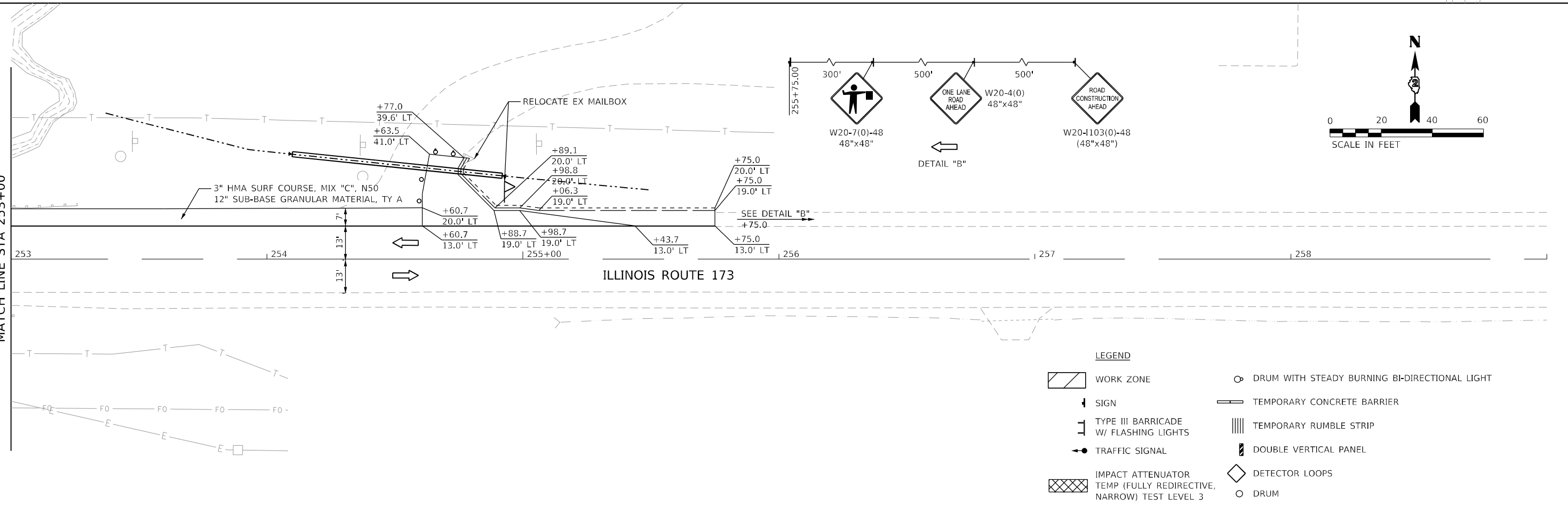
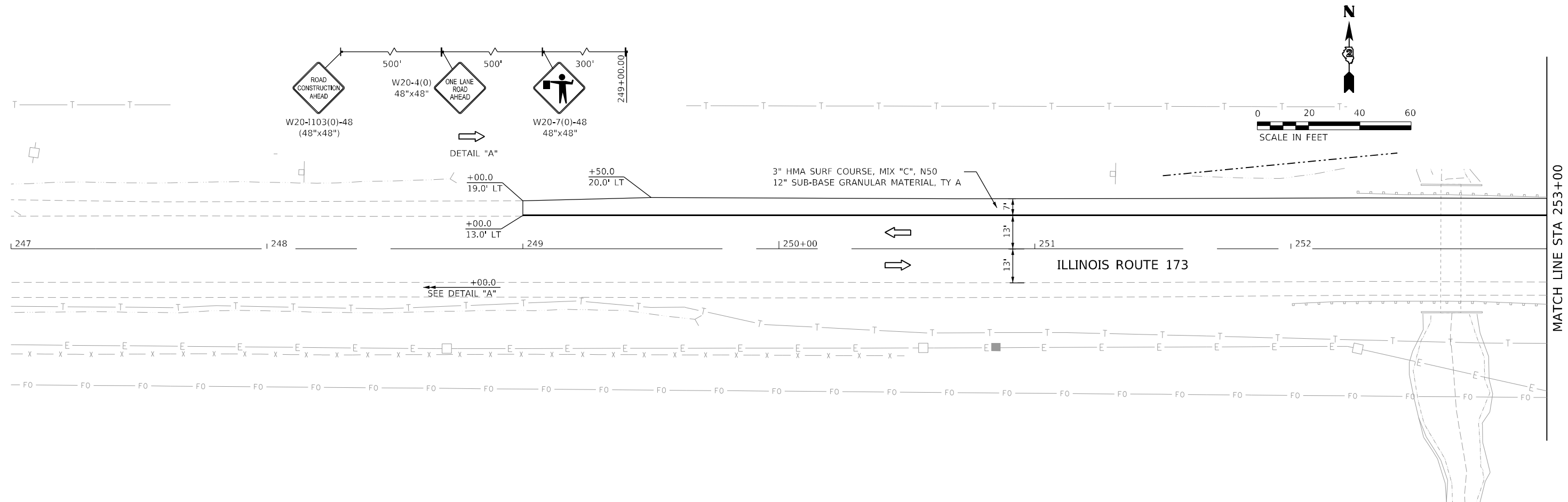
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS**

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	25
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- WORK ZONE
  - SIGN
  - TYPE III BARRICADE W/ FLASHING LIGHTS
  - TRAFFIC SIGNAL
  - IMPACT ATTENUATOR TEMP (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
  - TEMPORARY CONCRETE BARRIER
  - TEMPORARY RUMBLE STRIP
  - DOUBLE VERTICAL PANEL
  - DETECTOR LOOPS
  - DRUM

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**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

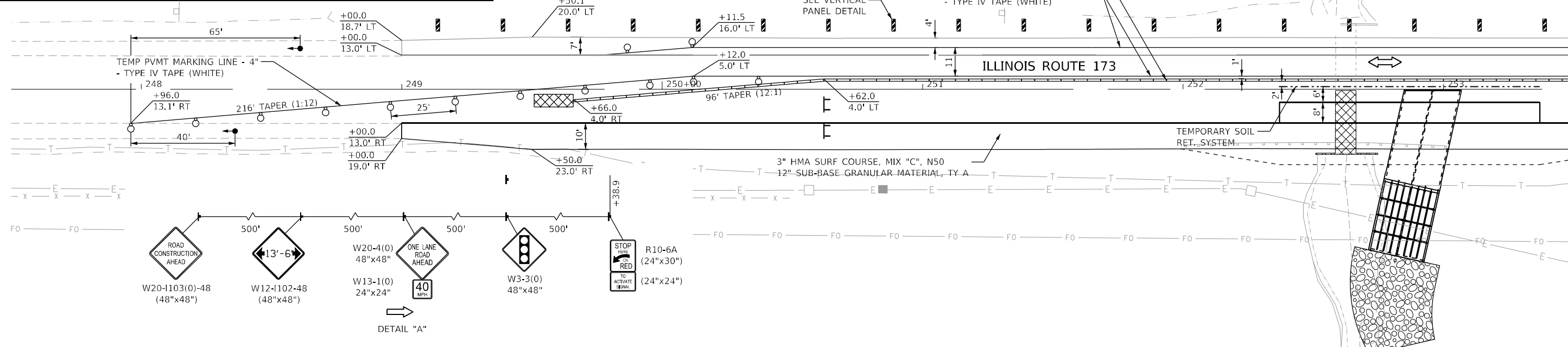
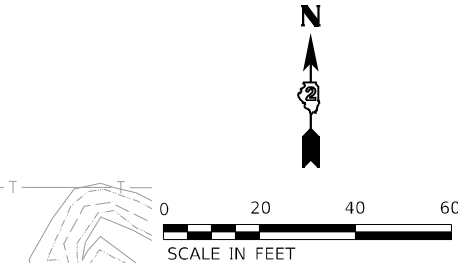
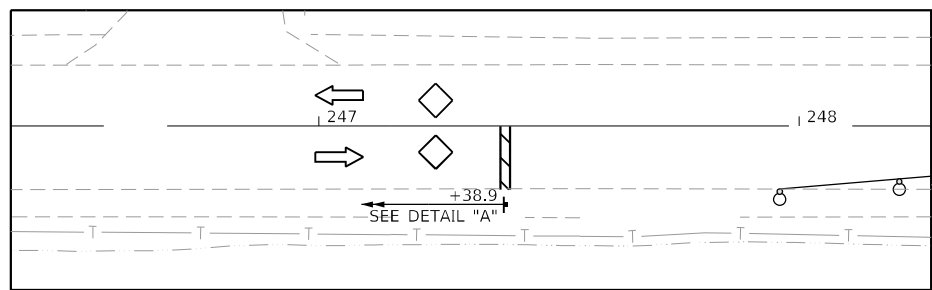
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

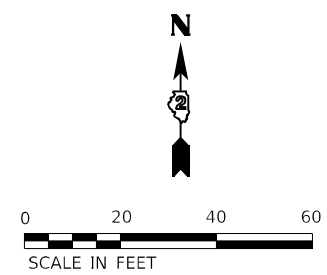
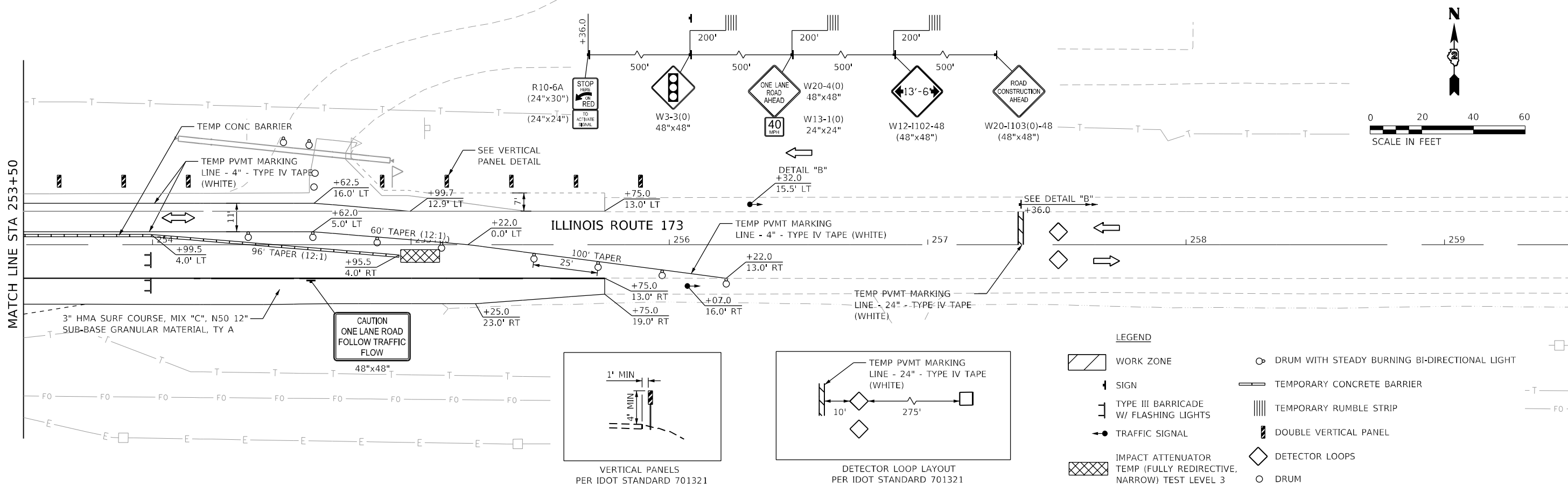
**IL 173 CULVERT REPLACEMENT  
 MAINTENANCE OF TRAFFIC PLAN - PRE-STAGE**

SCALE: AS SHOWN    SHEET 4 OF 7 SHEETS    STA. 247+00.00 TO STA. 259+00.00

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 26
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

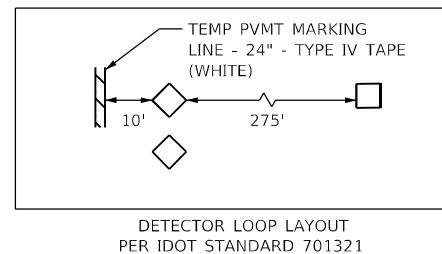
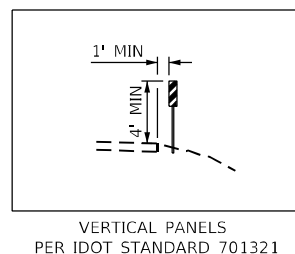


MATCH LINE STA 253+50



MATCH LINE STA 253+50

- LEGEND**
- WORK ZONE
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
  - SIGN
  - TEMPORARY CONCRETE BARRIER
  - TYPE III BARRICADE W/ FLASHING LIGHTS
  - TEMPORARY RUMBLE STRIP
  - TRAFFIC SIGNAL
  - DOUBLE VERTICAL PANEL
  - IMPACT ATTENUATOR TEMP (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3
  - DETECTOR LOOPS
  - DRUM



**WBK ENGINEERING**  
 WBK ENGINEERING, LLC  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

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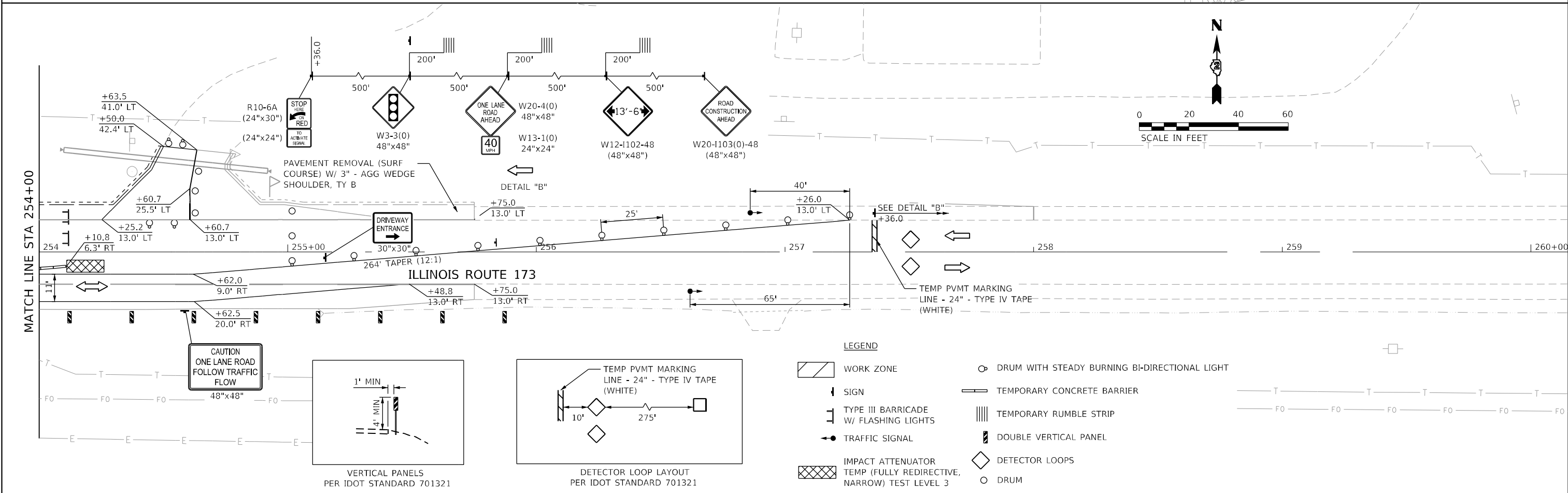
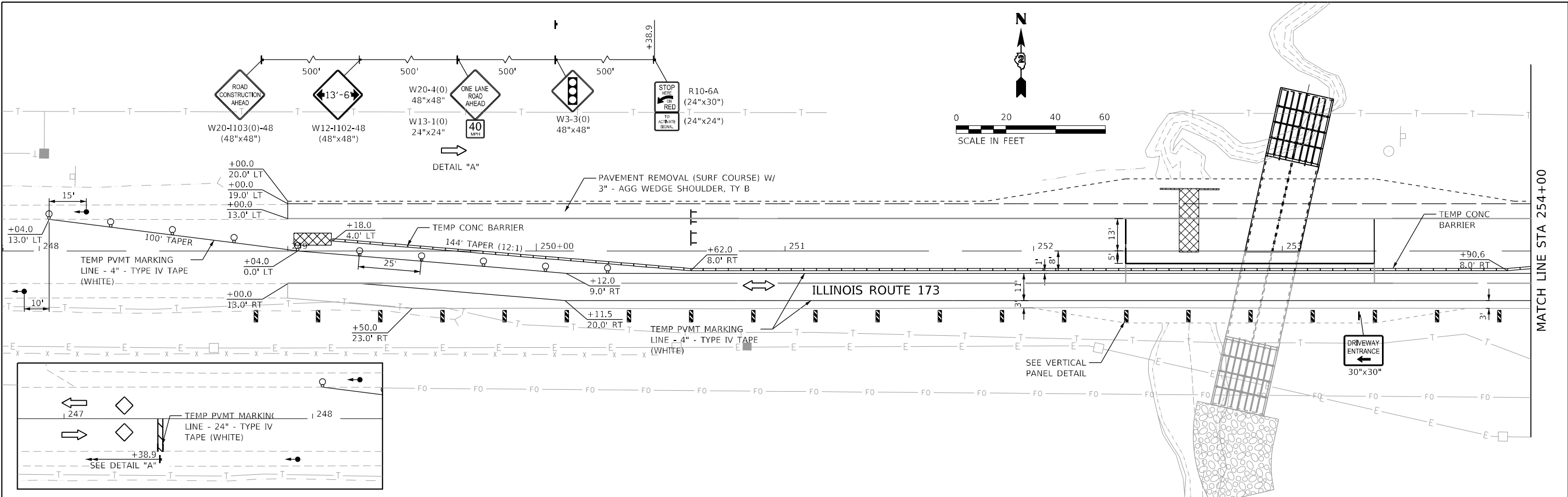
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 MAINTENANCE OF TRAFFIC PLAN - STAGE 1**

SCALE: AS SHOWN    SHEET 5 OF 7 SHEETS    STA. 247+00.00 TO STA. 259+00.00

F.A.P. RTE. 303	SECTION 130 CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 27
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

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**WBK ENGINEERING**  
 WBK ENGINEERING, LLC  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

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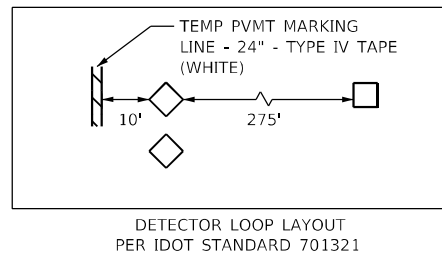
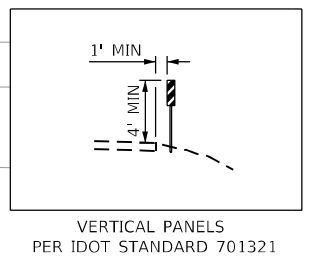
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT**  
**MAINTENANCE OF TRAFFIC PLAN - STAGE 2**

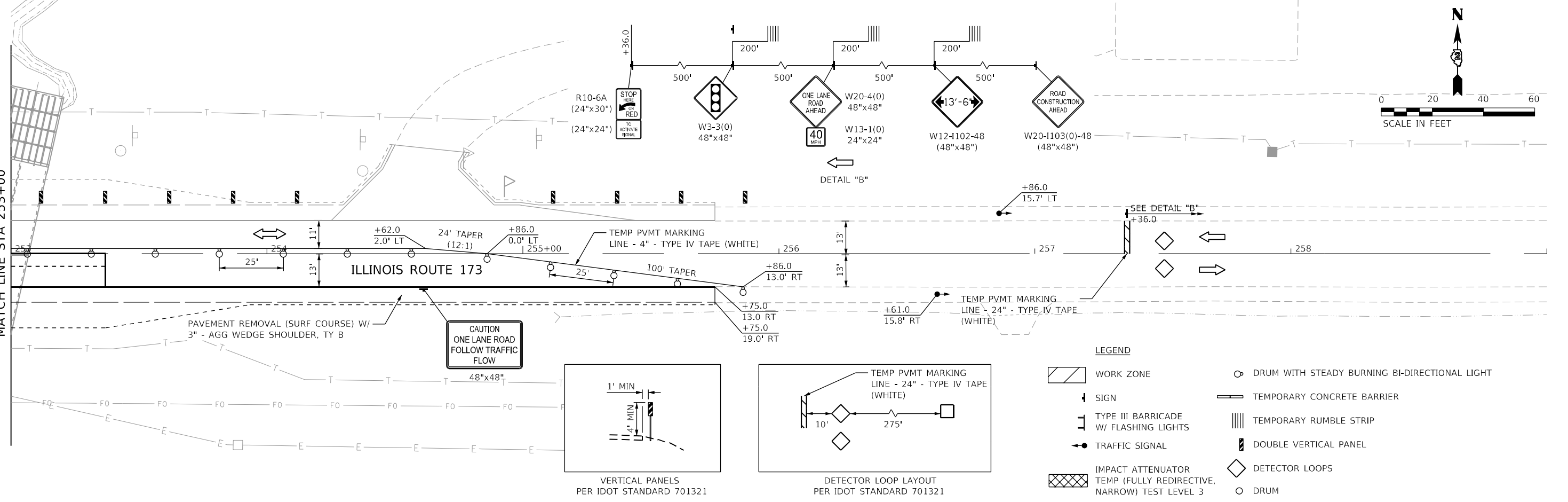
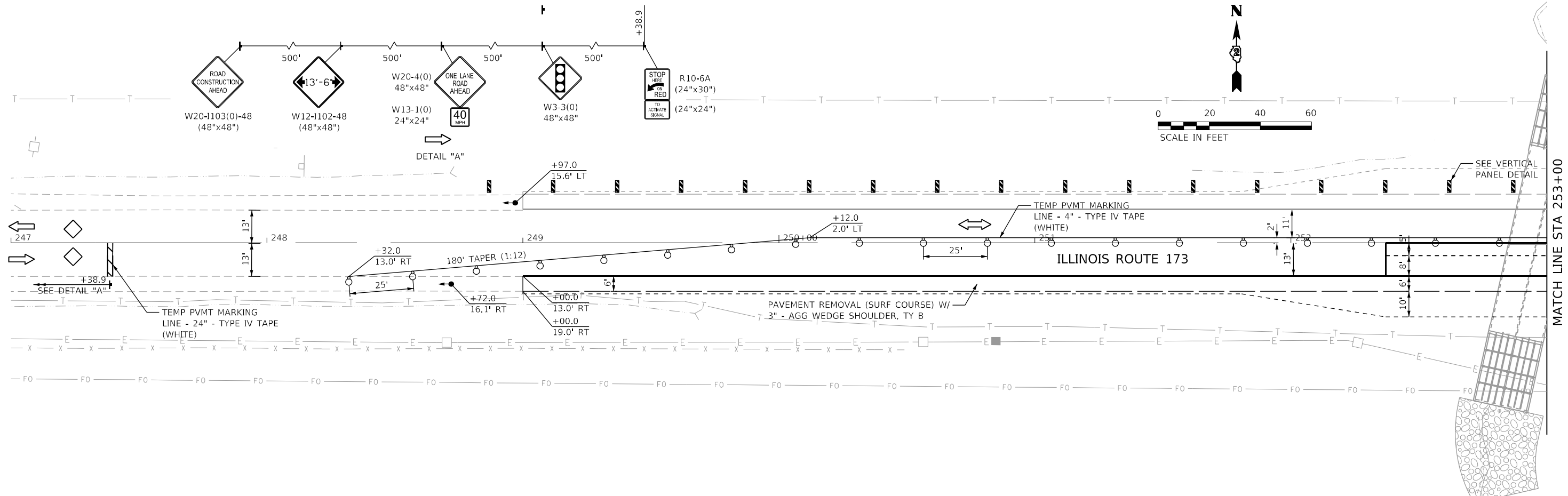
SCALE: AS SHOWN    SHEET 6 OF 7 SHEETS    STA. 247+00.00 TO STA. 259+00.00

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 28
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

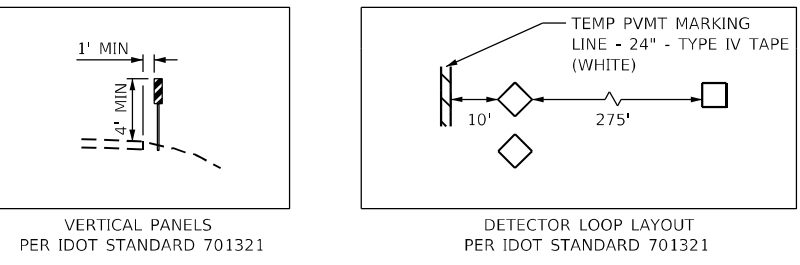
- LEGEND**
- WORK ZONE
  - SIGN
  - TYPE III BARRICADE W/ FLASHING LIGHTS
  - TRAFFIC SIGNAL
  - IMPACT ATTENUATOR TEMP (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
  - TEMPORARY CONCRETE BARRIER
  - TEMPORARY RUMBLE STRIP
  - DOUBLE VERTICAL PANEL
  - DETECTOR LOOPS
  - DRUM







- LEGEND**
- WORK ZONE
  - SIGN
  - TYPE III BARRICADE W/ FLASHING LIGHTS
  - TRAFFIC SIGNAL
  - IMPACT ATTENUATOR TEMP (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
  - TEMPORARY CONCRETE BARRIER
  - TEMPORARY RUMBLE STRIP
  - DOUBLE VERTICAL PANEL
  - DETECTOR LOOPS
  - DRUM



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**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:40	DRAWN - SS	REVISED -
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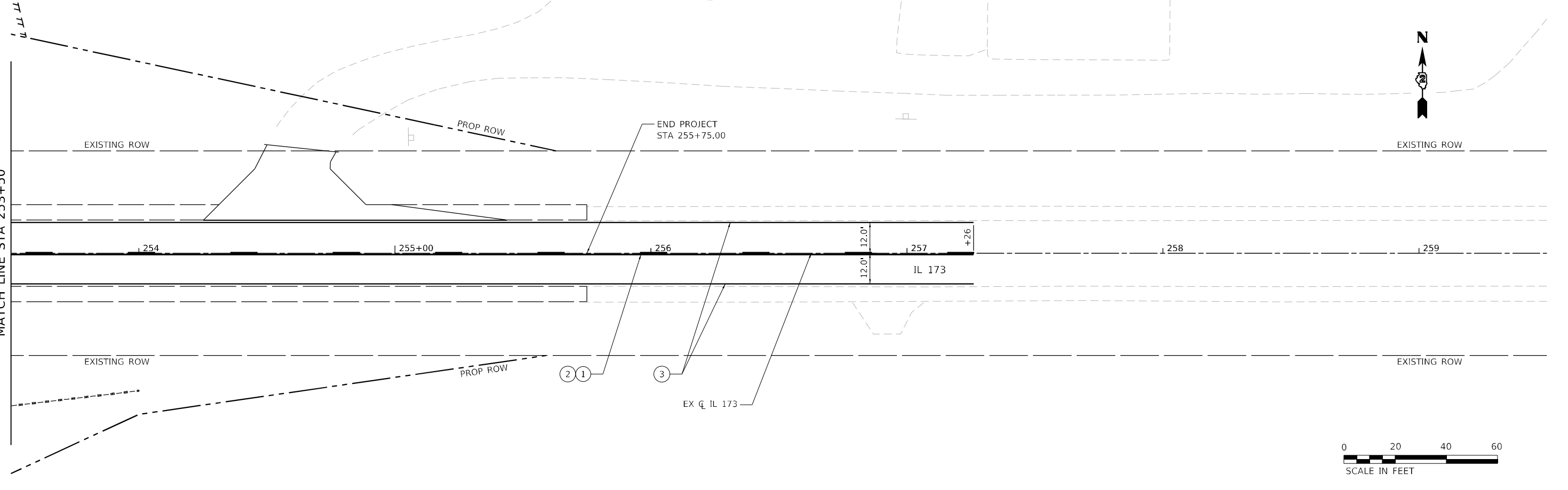
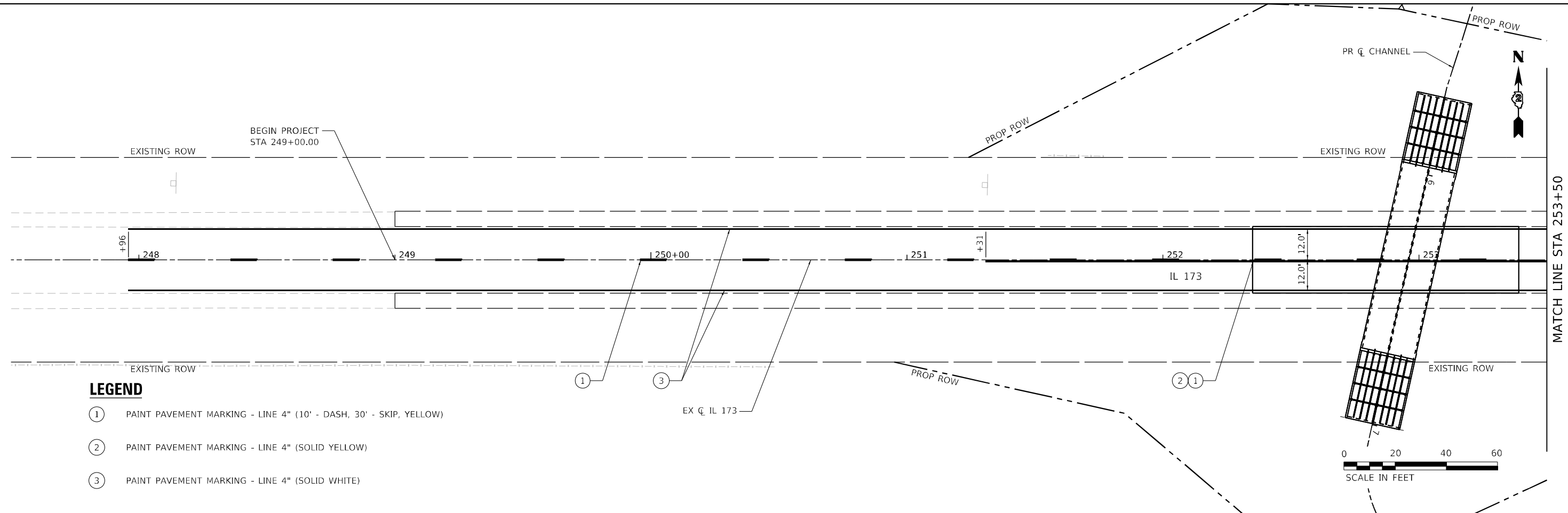
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 MAINTENANCE OF TRAFFIC PLAN - STAGE 3**

SCALE: AS SHOWN    SHEET 7 OF 7 SHEETS    STA. 247+00.00 TO STA. 259+00.00

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 29
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

MODEL: Plan Sheets 1  
 FILE NAME: Z:\190808.13 IDOT D2 PFB 190-019\_W013 IL 173 Culvert Design\Design\Plan\190808.13 IL 173 Culvert Replacement\190808.13 IL 173 Culvert Replacement.dgn



USER NAME = J.Berggren	DESIGNED - RG	REVISED -
DRAWN - JB	REVISIONS -	
PLOT SCALE = 1:40	CHECKED - JH	REVISED -
PLOT DATE = 10/6/2021	DATE - 09/15/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 PAVEMENT MARKING PLANS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	30
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

Benchmark: Brass disk in SE quad of IL 173 & IL 76 at cemetery fence corner. Elev. 916.3686.

Existing Structure: S.N. 004-1022 (date built unknown) was built as a single cell 8'x5' cast-in-place box culvert, 51 ft in length on a 0° skew. The upstream and downstream ends have 90° headwalls and wingwalls.

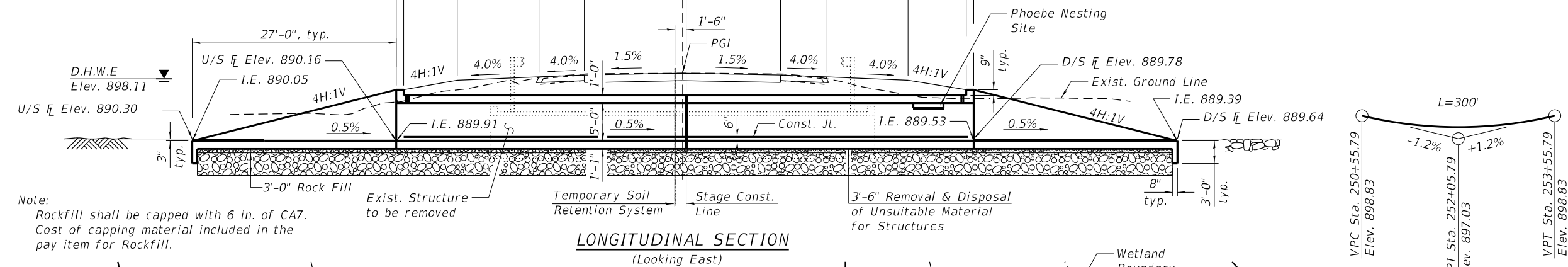
Precast alternate is not allowed.

Traffic to be maintained utilizing staged construction.

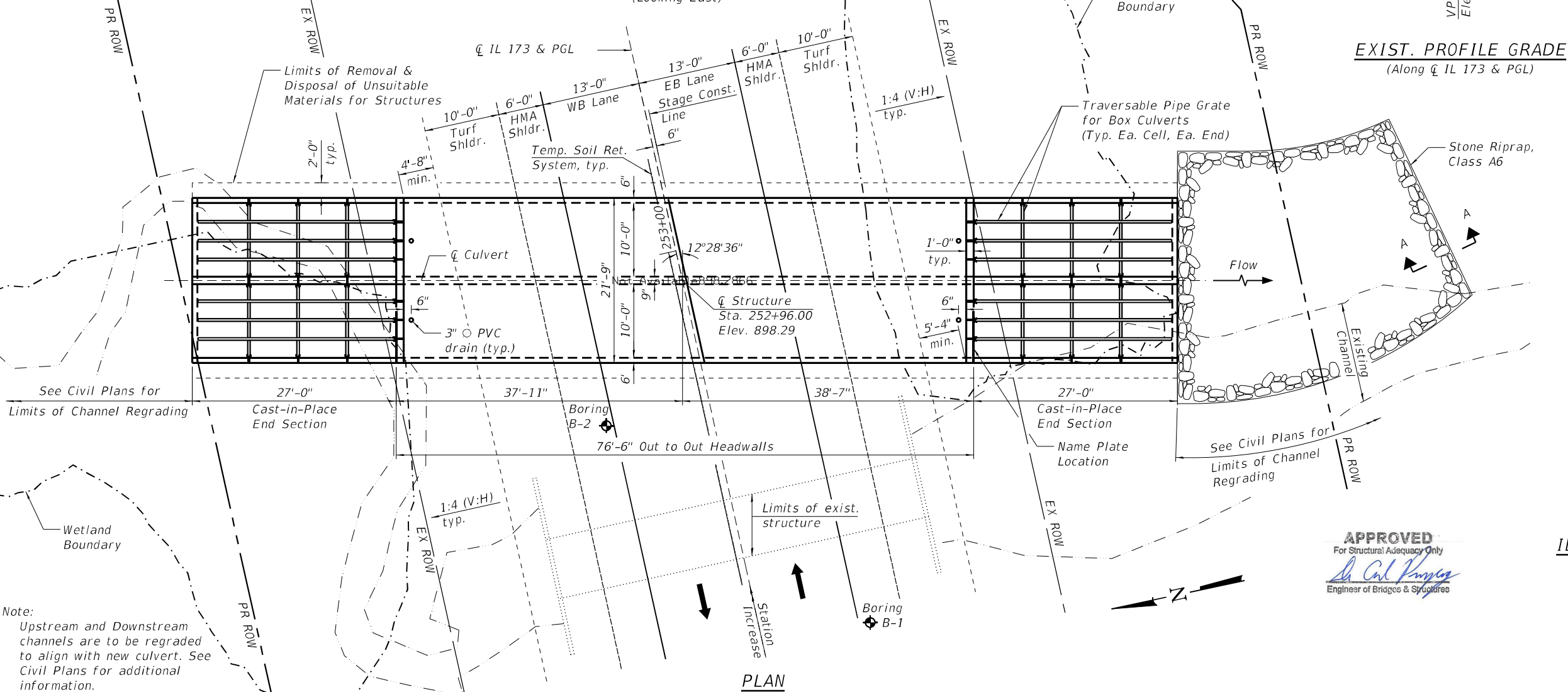
No Salvage.

E.W.S.E Not available at the time of plans submittal per District 2.

All dimensions are at Rt. angles to  $\bar{C}$  Rdwy.



Note: Rockfill shall be capped with 6 in. of CA7. Cost of capping material included in the pay item for Rockfill.



Note: Upstream and Downstream channels are to be regraded to align with new culvert. See Civil Plans for additional information.

**WATERWAY INFORMATION**

Drainage Area = 1091.0 acres				
Existing Low Grade Elev. 897.91 at Sta. 252+29				
Proposed Low Grade Elev. 897.91 at Sta. 252+29				
Flood	Freq. Yr.	Discharge (C.F.S.)	Headwater El.	
Ten-Year	10	482	897.79	894.56
Existing OVT	10	487	897.91	
Proposed OVT	49	935		897.91
Design	5	970	898.85	898.11
Base	100	1271	899.10	898.65

10-Year Velocity Through Existing Culvert = 12.5 fps  
10-Year Velocity Through Proposed Culvert = 10.4 fps

**DESIGN SPECIFICATIONS**

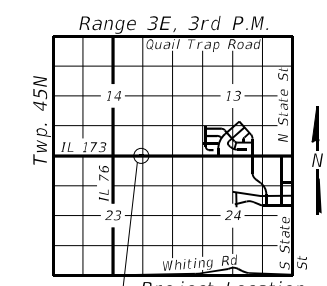
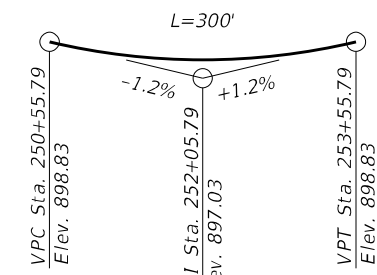
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**DESIGN STRESSES**

FIELD UNITS  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**LOADING HL-93**

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



**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Data
3. Stage I Construction Details
4. Stage II Construction Details
- 5-6. Culvert Plan and Section
7. Traversable Pipe Gate Details for End Section
8. Bar Splicer Assembly Details
9. Boring Logs



Signed: *Jiahong Zuo*  
Date: 12/06/2021  
License Expires: 11/30/2022

**GENERAL PLAN & ELEVATION**  
**IL 173 OVER UNNAMED TRIBUTARY**  
**TO BEAVER CREEK**  
**F.A.P. RTE. 303 - SEC. 130CR**  
**BOONE COUNTY**  
**STATION 252+96.00**  
**S.N. 004-1030**

**WBK ENGINEERING, LLC**  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

USER NAME = jmuller	DESIGNED - CPT	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 12/6/2021	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

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

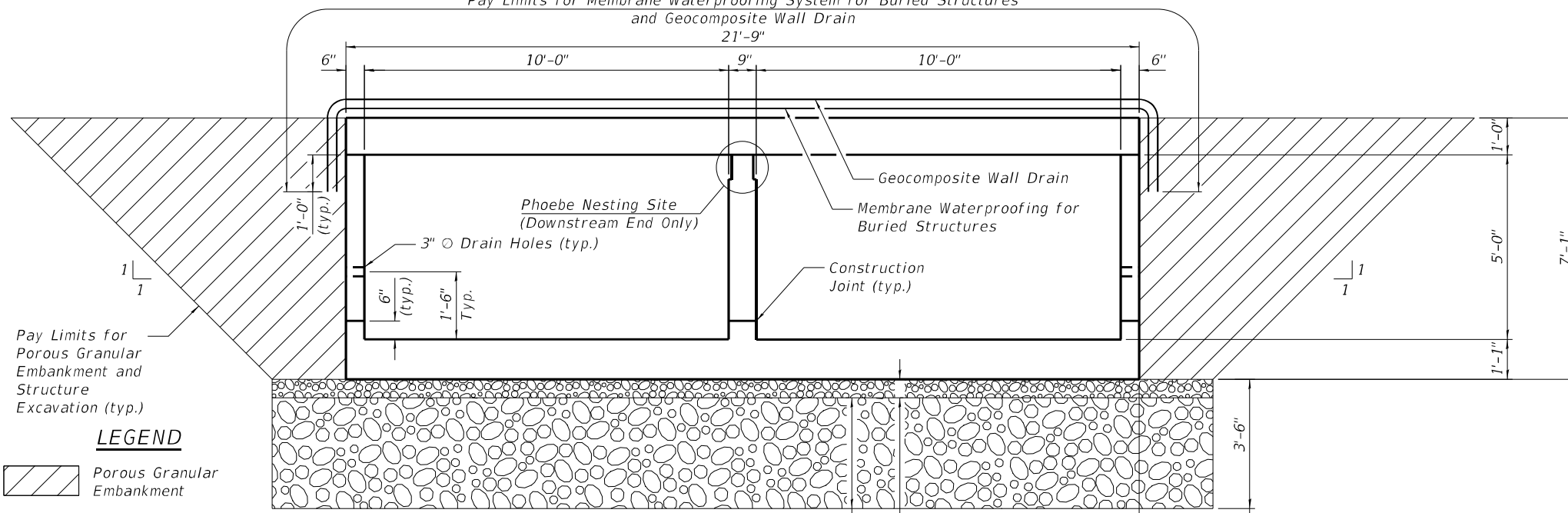
**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 004-1030**

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303	130CR	BOONE	90	31
CONTRACT NO. 64N48				

SHEET NO. 1 OF 9 SHEETS

ILLINOIS FED. AID PROJECT

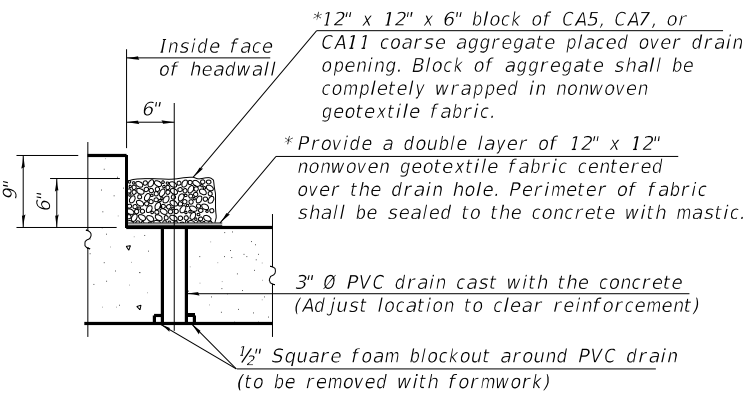
Pay Limits for Membrane Waterproofing System for Buried Structures and Geocomposite Wall Drain



Pay Limits for Porous Granular Embankment and Structure Excavation (typ.)

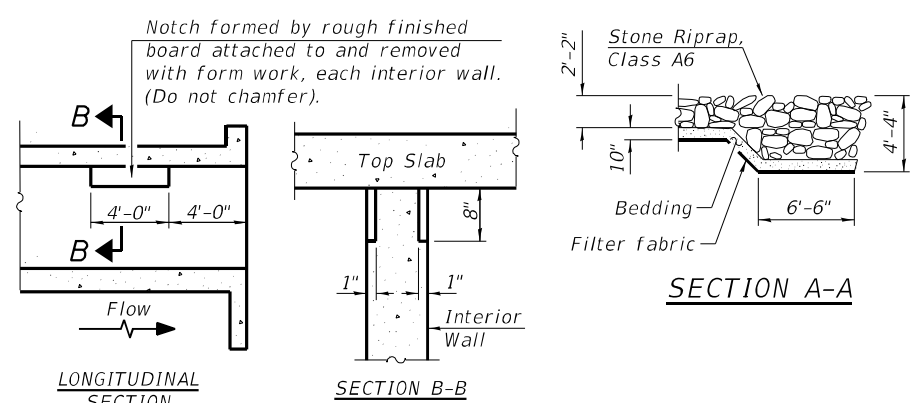


\*Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



**DRAIN DETAIL**

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



**PHOEBE NESTING SITE DETAILS**  
(Downstream End Only)

STATION 252+96  
BUILT 202X BY  
STATE OF ILLINOIS  
F.A.P. RT. 303 SEC. 130CR  
LOADING HL-93  
STRUCTURE NO. 004-1030

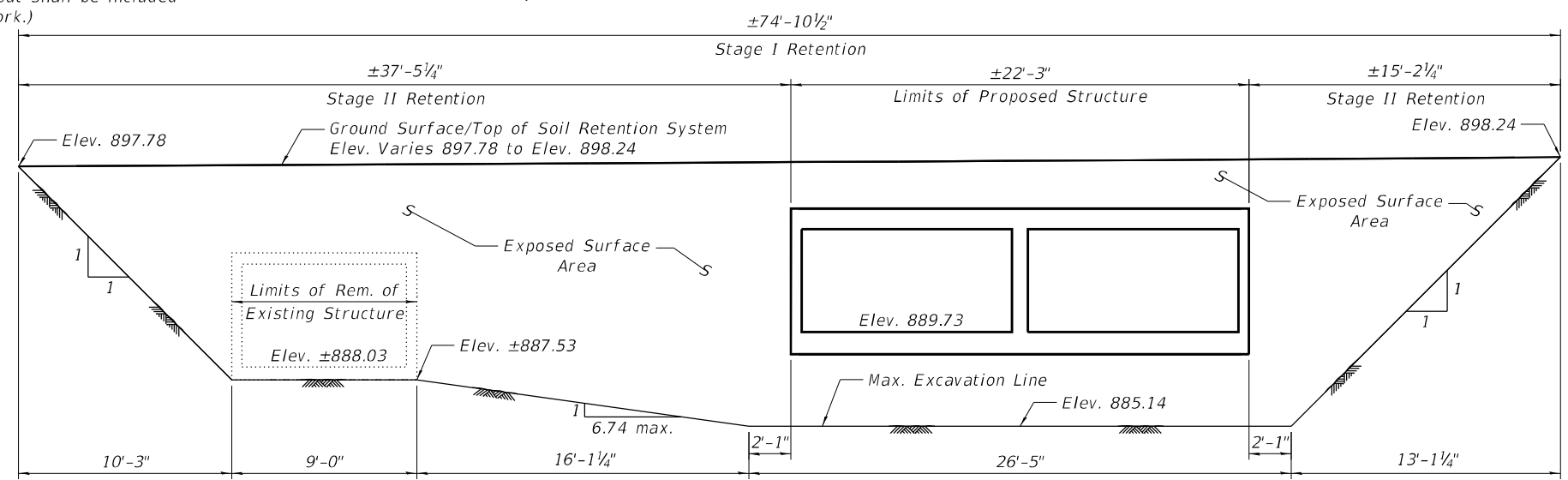
**NAME PLATE**  
See Std. 515001

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	270
Stone Riprap, Class A6	Sq. Yd.	121
Filter Fabric	Sq. Yd.	121
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	903
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	436
Reinforcement Bars, Epoxy Coated	Pound	55,920
Bar Splicers	Each	106
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	1,000
Concrete Box Culverts	Cu. Yd.	215.4
Traversable Pipe Grate for Concrete End Section	Foot	420
Geocomposite Wall Drain	Sq. Yd.	214
Membrane Waterproofing System for Buried Structures	Sq. Yd.	214
Rock Fill	Ton	674

**GENERAL NOTES**

- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions as directed by the Engineer.
- Precast alternate is not allowed.
- Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications. Cost shall be included in Concrete Box Culverts.
- See Civil Plans for limits of channel regrading and riprap.
- The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
- During Stage I, the Contractor shall place lean concrete on the Rock Fill at the stage line to retain the material until the Stage II Rock Fill is placed. This work will not be paid for separately but included in the cost of Rock Fill.
- Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



**TEMPORARY SOIL RETENTION SYSTEM**  
(Looking North)

(horizontal dimensions measured along  $\bar{C}$  IL 173)

Note:  
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME = Z:\2018\180228 FTB18\cadd\Structure\1\002\General Des.cad

**WBK ENGINEERING**  
WBK ENGINEERING, LLC  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

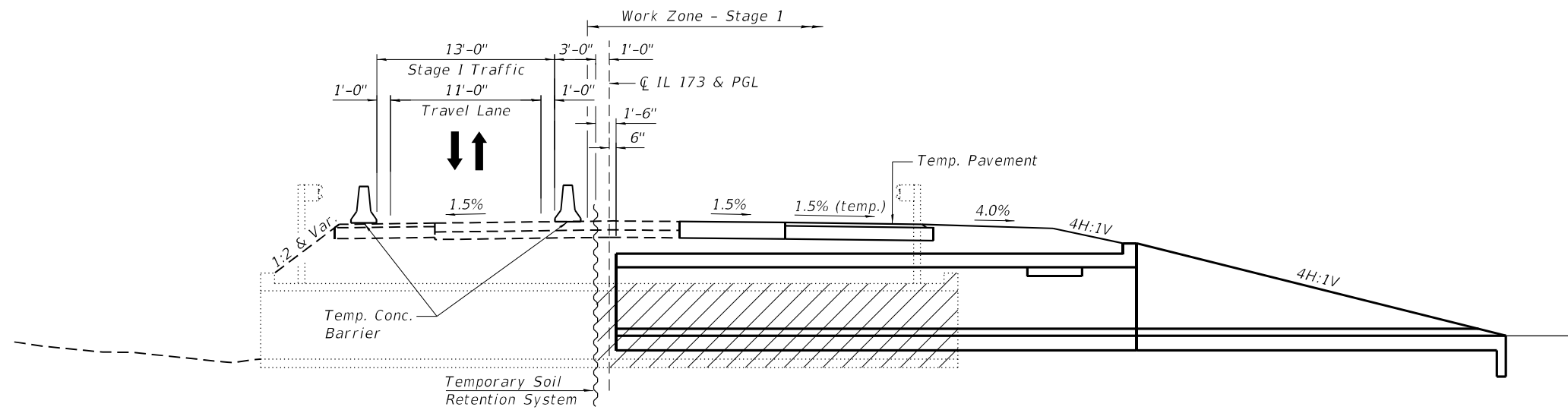
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PLOT DATE = 12/9/2021	DRAWN - CPT	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

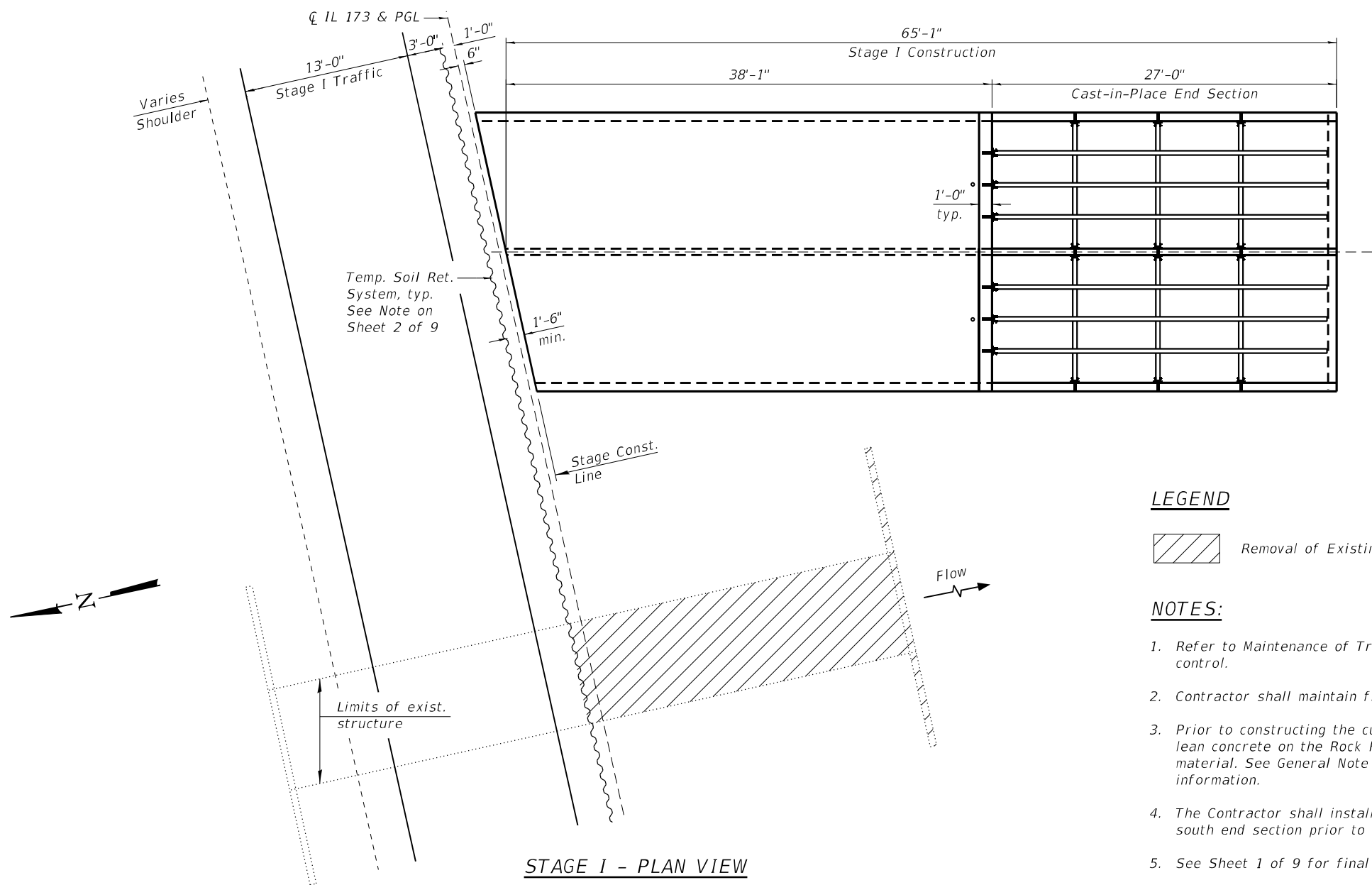
GENERAL DATA  
STRUCTURE NO. 004-1030

SHEET NO. 2 OF 9 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303	130CR	BOONE	90	32
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				




**STAGE I - ELEVATION VIEW**  
(Looking East)



**STAGE I - PLAN VIEW**

**LEGEND**

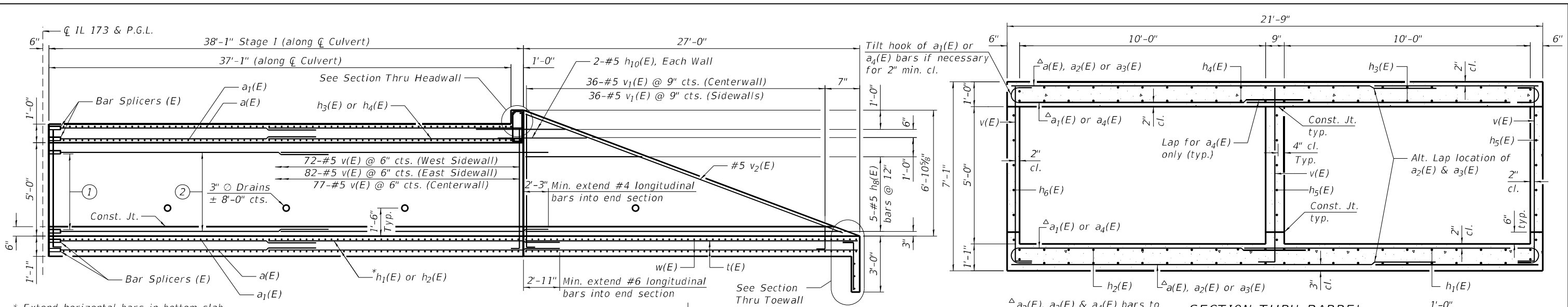
 Removal of Existing Structure

**NOTES:**

1. Refer to Maintenance of Traffic Plans for staging and traffic control.
2. Contractor shall maintain flow at the culvert during construction.
3. Prior to constructing the culvert, the Contractor shall place lean concrete on the Rock Fill at the stage line to retain the material. See General Note 7 on Sheet 2 of 9 for additional information.
4. The Contractor shall install the Traversable Pipe Grates at the south end section prior to switching over to Stage II.
5. See Sheet 1 of 9 for final roadway cross-section at the structure.

FILE NAME = Z:\2018\180228\_FTBI89\cadd\Structural\Drawings\003\_Stage\_1\_Construction\_Details.dgn





\* Extend horizontal bars in bottom slab and all walls into end section.

\*\* Increase bar lap as needed to fit longitudinal bars within top slab.

**LONGITUDINAL SECTION - STAGE I**

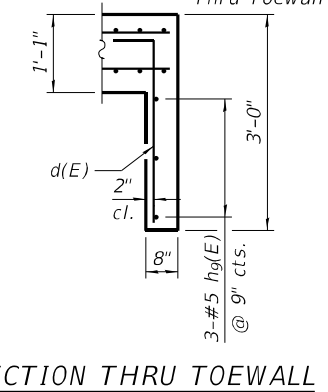
- ① 6-Bar Splicers (E) for #4 h5(E) bars (West Sidewall & Centerwall)  
6-Bar Splicers (E) for #4 h6(E) bars (East Sidewall)
- ② 6x2-#4 h6(E) @ 12" cts. ± (East Sidewall)  
6x2-#4 h5(E) @ 12" cts. ± (Centerwall)  
6x2-#4 h5(E) @ 12" cts. ± (West Sidewall)
- ③ Fan 16 - #7 a2(E) & a3(E) bars @ 3" min. & 6" max. (lapped),  
Top of Top Slab & Bott. of Bott. Slab  
Fan 16x2 - #7 a4(E) bars @ 3" min. & 6" max. (lapped),  
Bott. of Top Slab & Top of Bott. Slab  
(See Section Thru Barrel)  
Note: Every other bar may be terminated before the  
sidewall by increasing lap lengths to avoid congestion.

**MIN. BAR LAP**

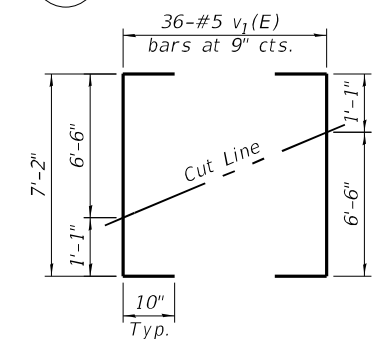
#4 bar = 2'-11"  
#5 bar = 3'-2"  
#6 bar = 3'-10"  
#7 bar = 5'-6"

**LEGEND**

E.F. = Each Face

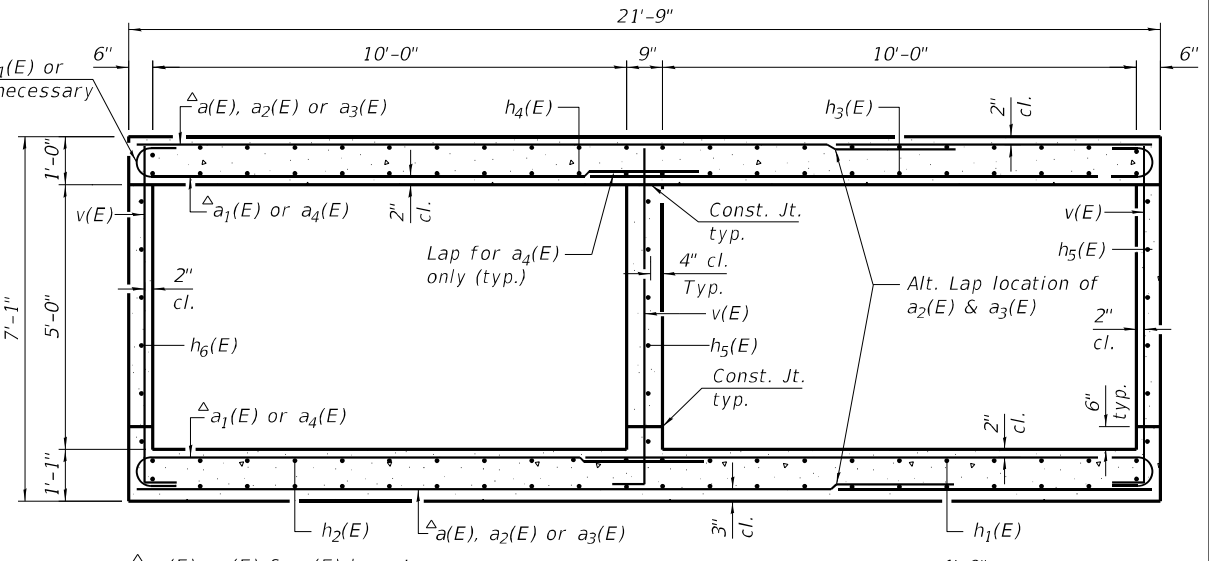


**SECTION THRU TOEWALL**



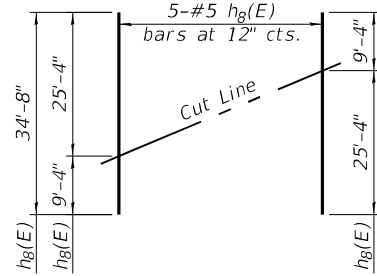
**FIELD CUTTING DIAGRAM**

Order bars shown full length. Cut as shown and use remainder of bars in opposite wall. Two sets of field cuts required for Stage I. Retain half of second cut for Stage II.



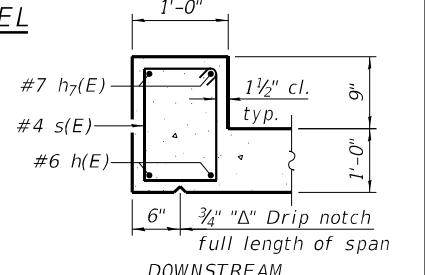
**SECTION THRU BARREL**

Looking South



**FIELD CUTTING DIAGRAM**

Order bars shown full length. Cut as shown and use remainder of bars in opposite wall. Two sets of field cuts required for Stage I. Retain half of second cut for Stage II.



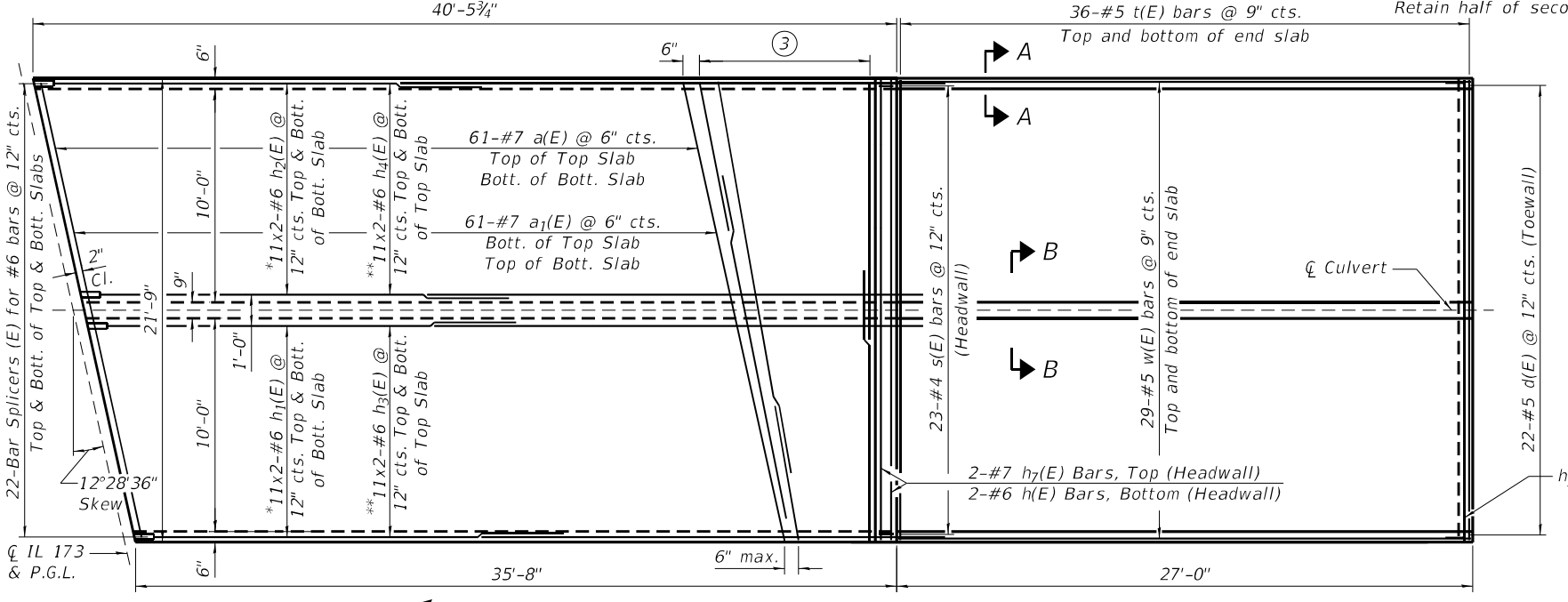
**SECTION THRU HEADWALL**

**BILL OF MATERIAL**

(Stage I)

Bar	No.	Size	Length	Shape
a(E)	122	#7	21'-11"	
a1(E)	122	#7	23'-7"	
a2(E)	32	#7	17'-3"	
a3(E)	32	#7	10'-3"	
a4(E)	64	#7	14'-7"	
d(E)	22	#5	3'-6"	└┘
h(E)	2	#6	21'-5"	
h1(E)	44	#6	22'-4"	
h2(E)	44	#6	23'-7"	
h3(E)	44	#6	20'-10"	
h4(E)	44	#6	22'-0"	
h5(E)	24	#4	21'-7"	
h6(E)	12	#4	22'-9"	
h7(E)	2	#7	21'-5"	
h8(E)	10	#5	34'-8"	
h9(E)	3	#5	21'-5"	
h10(E)	6	#5	4'-10"	
s(E)	23	#4	5'-1"	└┘
t(E)	72	#5	21'-5"	
v(E)	231	#5	7'-6"	└┘
v1(E)	72	#5	8'-10"	└┘
v2(E)	3	#5	26'-3"	└┘
w(E)	58	#5	26'-8"	
Concrete Box Culverts	Cu. Yd.		107.4	
Reinforcement Bars, Epoxy Coated	Pound		27,990	

See Field Cutting Diagram



**PLAN - STAGE I**

- Notes:
- Traversable Pipe Grate for End Section omitted for clarity. See Sheet 7 of 9 for details.
  - Reinforcement designated thus 11x2-#6 etc. denotes 11 lines of bars with 2 lengths per line.
  - See Sheet 8 of 9 for Bar Splicer Details.



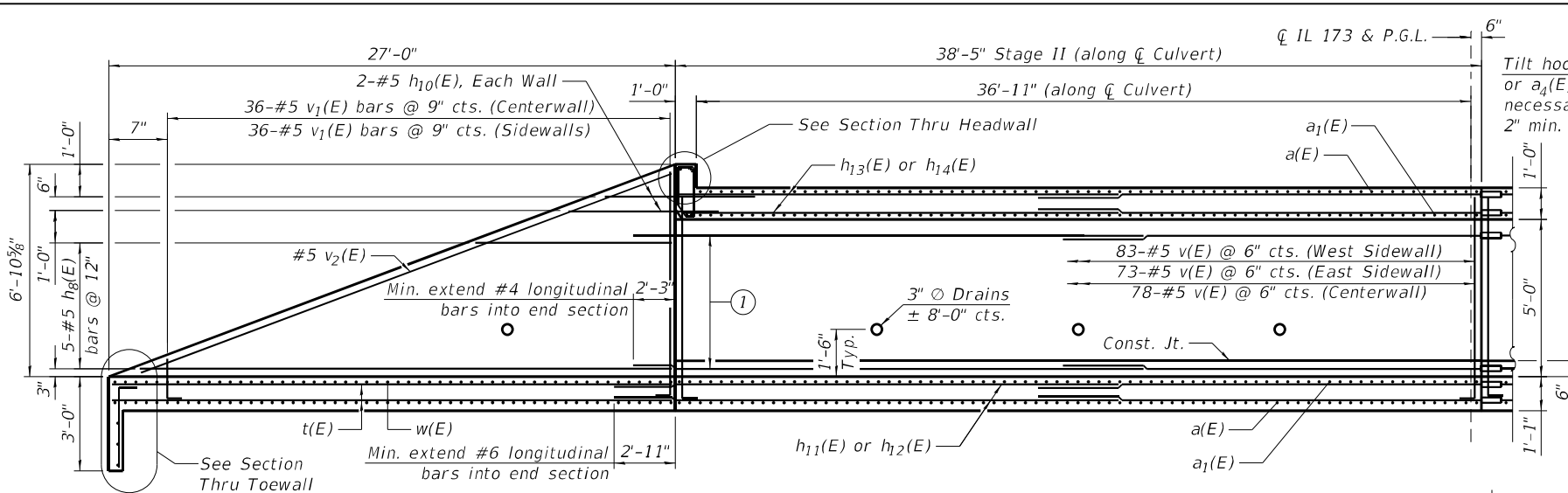
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DESIGNED	- CPT
CHECKED	- JZ
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DRAWN	- CPT
CHECKED	- JZ
PLOT DATE	= 12/7/2021
REVISED	-
REVISED	-
REVISED	-
REVISED	-

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

**CULVERT PLAN AND SECTION I**  
**STRUCTURE NO. 004-1030**

SHEET NO. 5 OF 9 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303	130CR	BOONE	90	35
CONTRACT NO. 64N48				
ILLINOIS		FED. AID PROJECT		



**LONGITUDINAL SECTION - STAGE II**

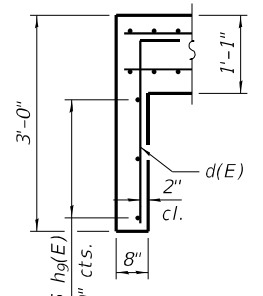
\* Extend horizontal bars in bottom slab and all walls into end section.  
 \*\* Increase bar lap as needed to fit longitudinal bars within top slab.

- ① 6x2-#4 h16(E) @ 12" cts. ± (East Sidewall)  
 6x2-#4 h16(E) @ 12" cts. ± (Centerwall)  
 6x2-#4 h15(E) @ 12" cts. ± (West Sidewall)
- ② Fan 16 - #7 a2(E) & a3(E) bars @ 3" min. & 6" max. (lapped),  
 Top of Top Slab & Bott. of Bott. Slab  
 Fan 16x2 - #7 a4(E) bars @ 3" min. & 6" max. (lapped),  
 Bott. of Top Slab & Top of Bott. Slab  
 (See Section Thru Barrel)  
 Note: Every other bar may be terminated before the sidewall by increasing lap lengths to avoid congestion.

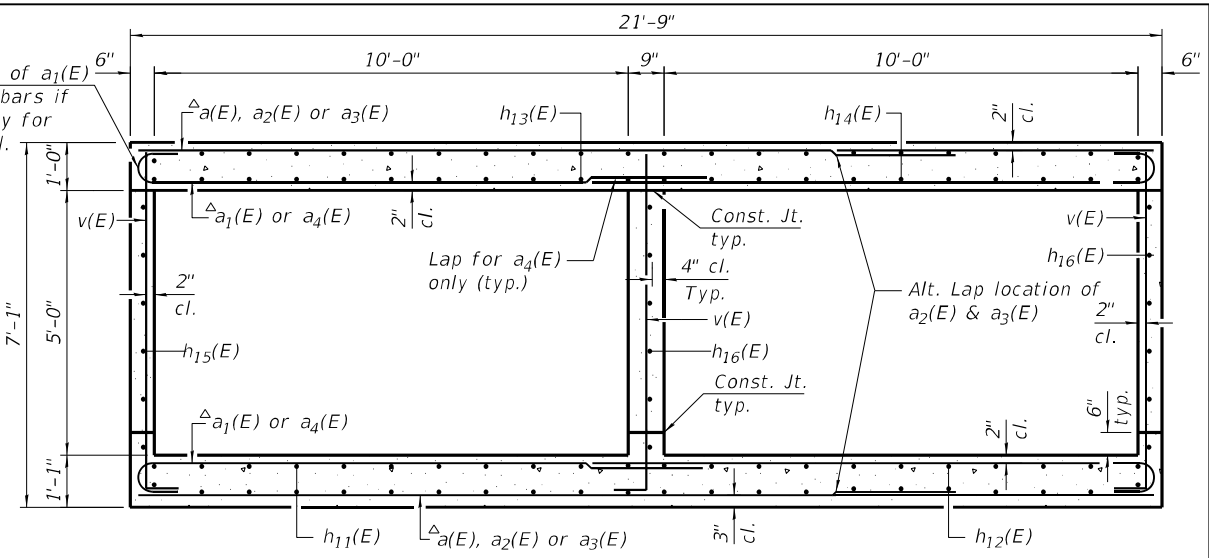
**MIN. BAR LAP**

#4 bar = 2'-11"  
 #5 bar = 3'-2"  
 #6 bar = 3'-10"  
 #7 bar = 5'-6"

**LEGEND**  
 E.F. = Each Face



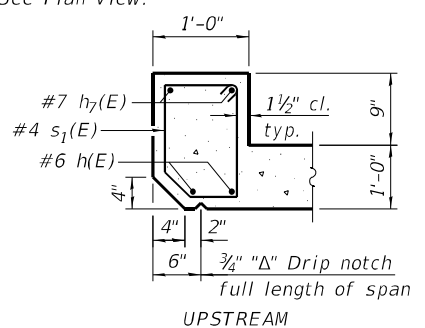
**SECTION THRU TOEWALL**



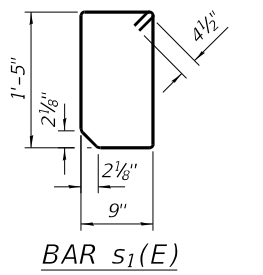
**SECTION THRU BARREL**

Looking South

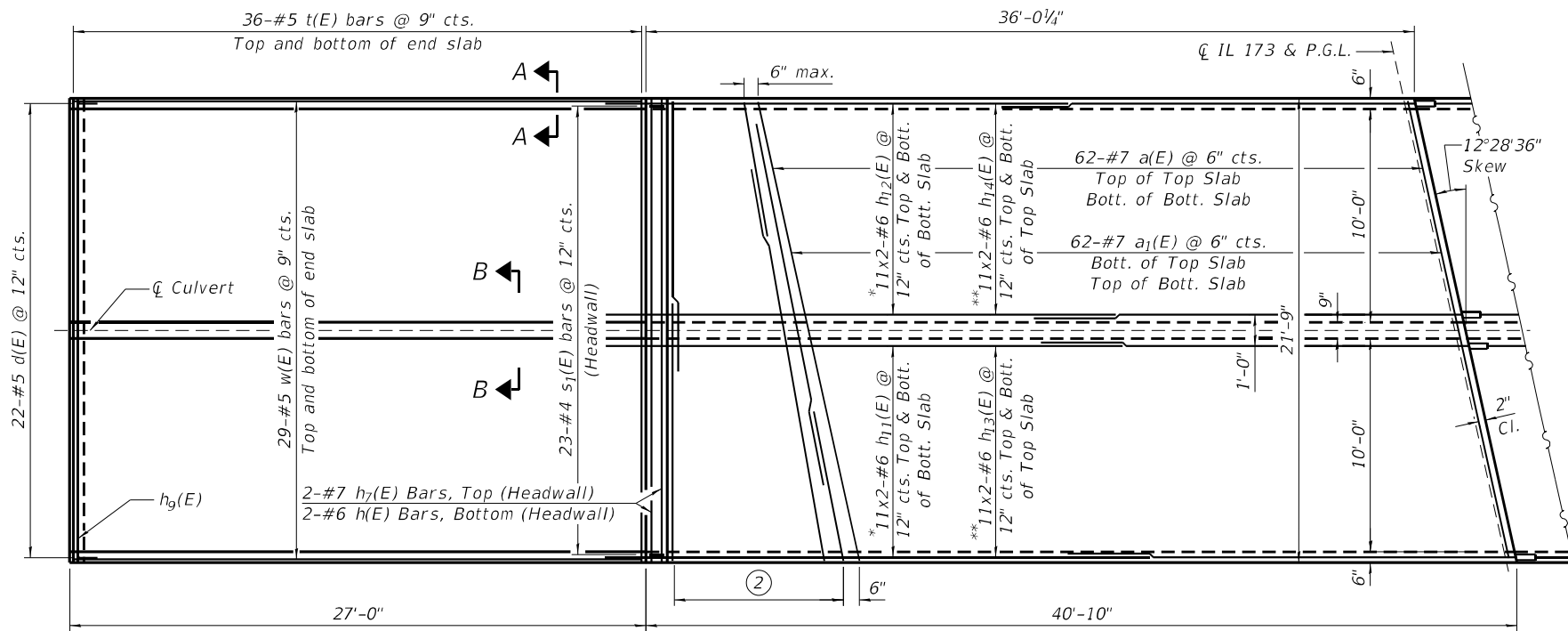
Δa2(E), a3(E) & a4(E) bars to be used in fanned area only. See Plan View.



**SECTION THRU HEADWALL**



**BAR S1(E)**



**PLAN - STAGE II**

- Notes:
- Traversable Pipe Grate for End Section omitted for clarity. See Sheet 7 of 9 for details.
  - Reinforcement designated thus 11x2-#6 etc. denotes 11 lines of bars with 2 lengths per line.
  - See Sheet 8 of 9 for Bar Splicer Details.
  - See Sheet 5 of 9 for Section A-A and Section B-B.
  - See Sheet 5 of 9 for a1(E), a4(E), d(E), and v(E) Bar Bending and Field Cutting Diagrams. Use retained v1(E) and h8(E) bars from Stage I.

**BILL OF MATERIAL**  
(Stage II)

Bar	No.	Size	Length	Shape
a(E)	124	#7	21'-11"	—
a1(E)	124	#7	23'-7"	—
a2(E)	32	#7	17'-3"	—
a3(E)	32	#7	10'-3"	—
a4(E)	64	#7	14'-7"	—
d(E)	22	#5	3'-6"	—
h(E)	2	#6	21'-5"	—
h7(E)	2	#7	21'-5"	—
h8(E)	10	#5	34'-8"	—
h9(E)	3	#5	21'-5"	—
h10(E)	6	#5	4'-10"	—
h11(E)	44	#6	23'-9"	—
h12(E)	44	#6	22'-6"	—
h13(E)	44	#6	22'-3"	—
h14(E)	44	#6	21'-1"	—
h15(E)	12	#4	22'-11"	—
h16(E)	24	#4	21'-9"	—
s1(E)	23	#4	5'-0"	□
t(E)	72	#5	21'-5"	—
v(E)	234	#5	7'-6"	—
v1(E)	36	#5	8'-10"	—
v2(E)	3	#5	26'-3"	—
w(E)	58	#5	26'-8"	—
Concrete Box Culverts	Cu. Yd.		108.0	
Reinforcement Bars, Epoxy Coated	Pound		27,930	

ΔΔ See Field Cutting Diagram on Sheet 5 of 9.

FILE NAME = Z:\2018\180228 FTB185\cadd\Structural\Dgn\W013\086.Culvert.Plan.and.Section.Ildgn

**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = jmueller
PLOT SCALE =
PLOT DATE = 12/7/2021

DESIGNED - CPT	REVISED -
CHECKED - JZ	REVISED -
DRAWN - CPT	REVISED -
CHECKED - JZ	REVISED -

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

**CULVERT PLAN AND SECTION II**  
**STRUCTURE NO. 004-1030**

SHEET NO. 6 OF 9 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303	130CR	BOONE	90	36
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

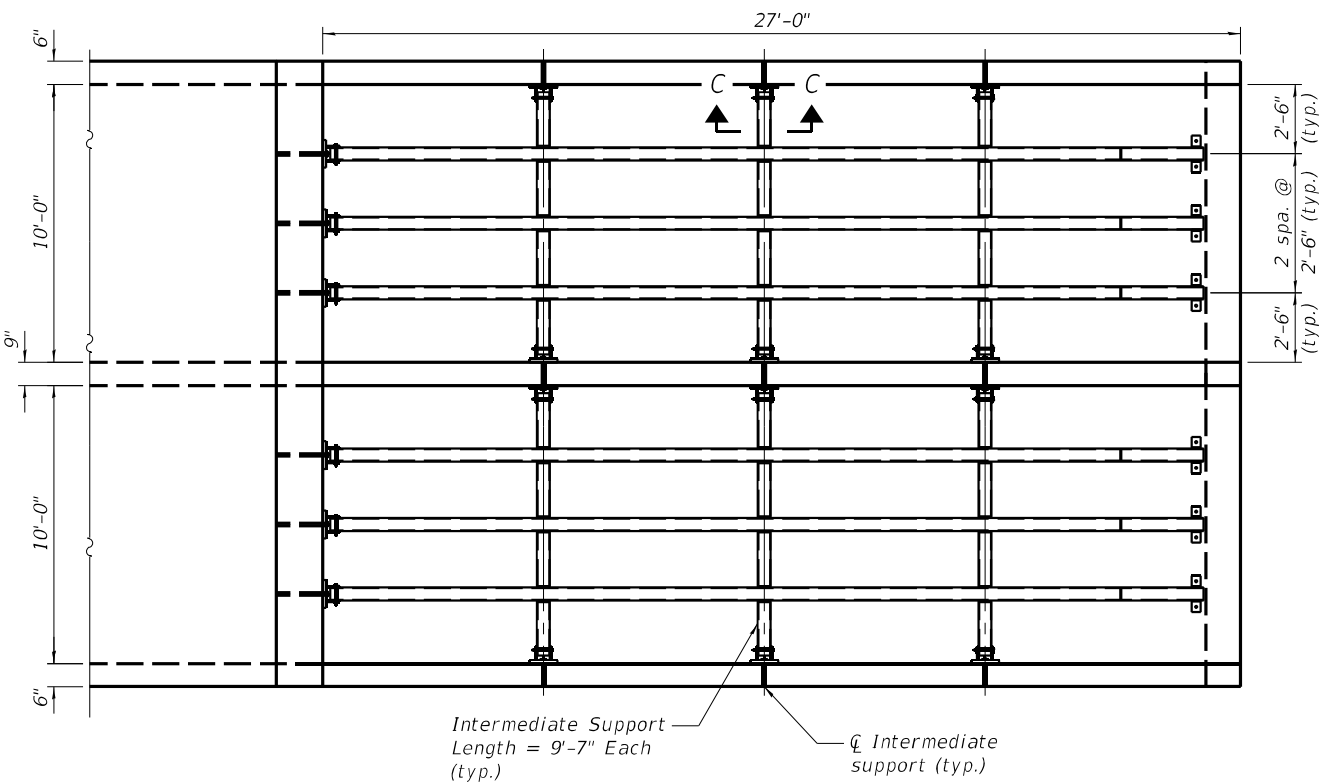
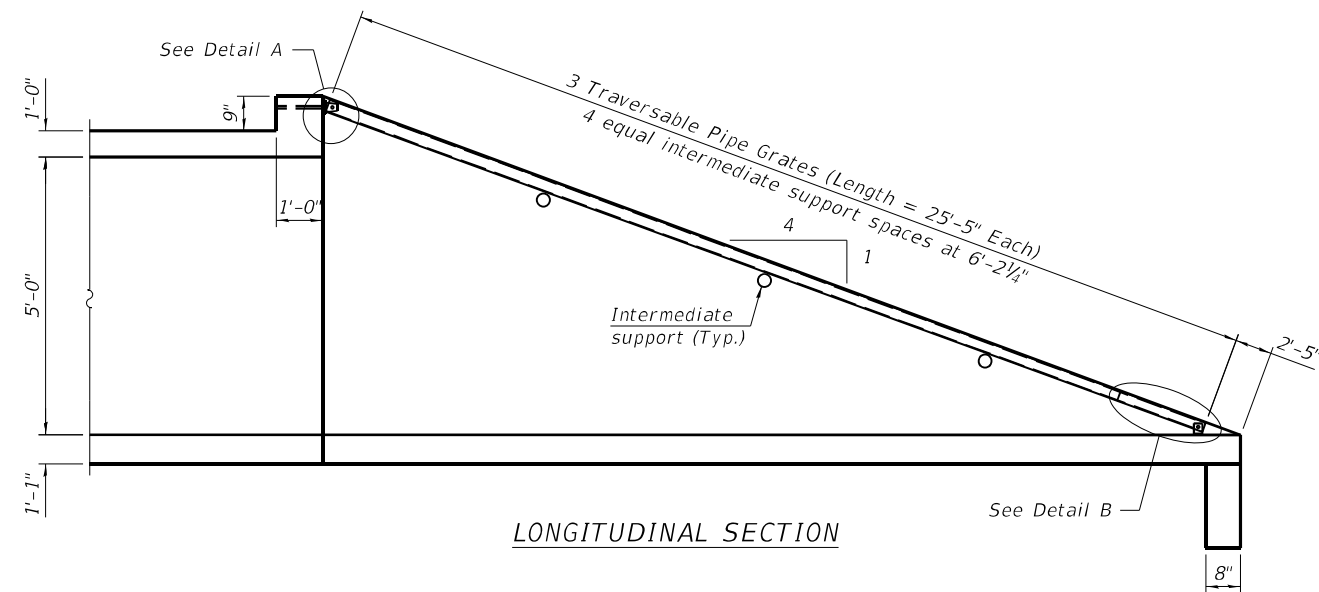


**GENERAL NOTES**

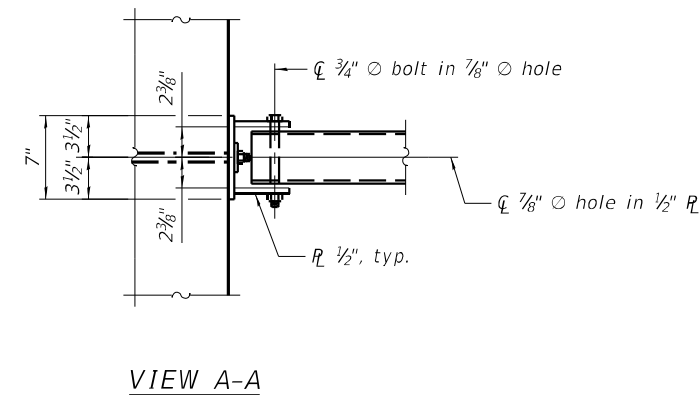
1. The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.
2. The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional ½ turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.

**BILL OF MATERIAL**  
TWO END SECTIONS

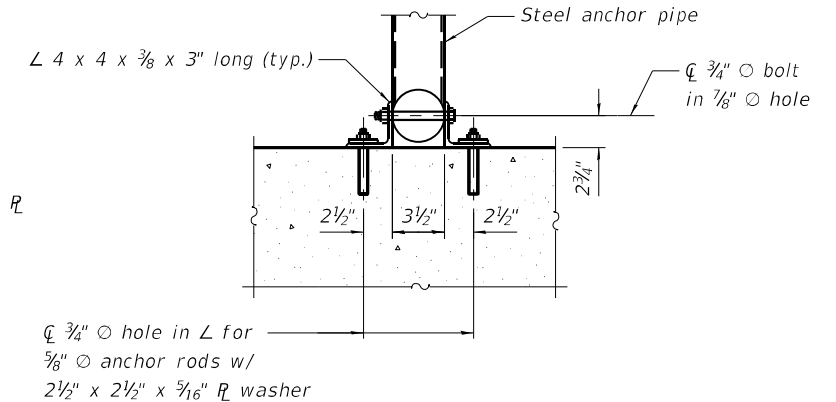
ITEM	UNIT	TOTAL
Traversable Pipe Grate for Concrete End Section	Foot	420



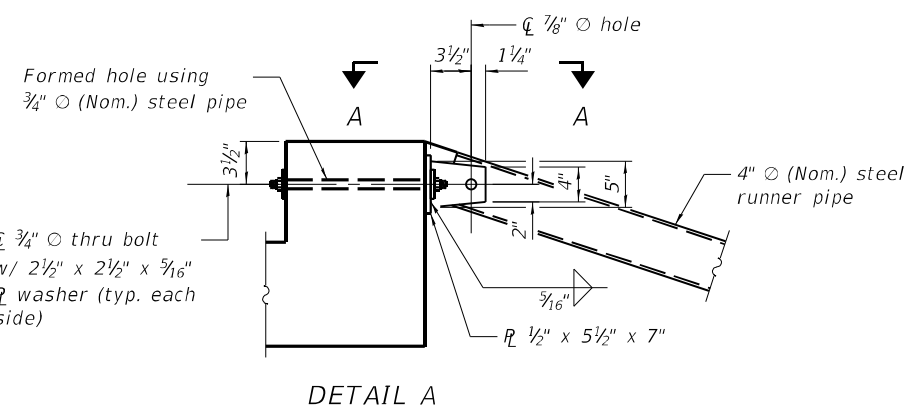
**PLAN VIEW**



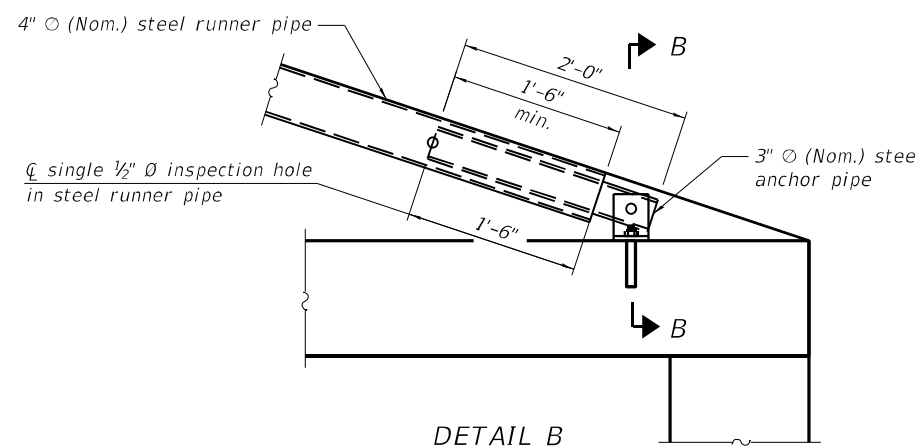
**VIEW A-A**



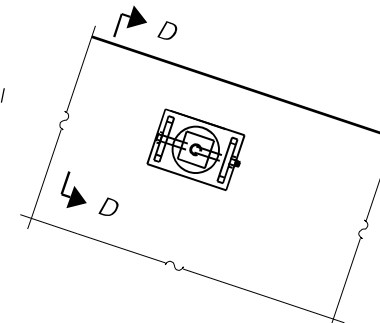
**SECTION B-B**



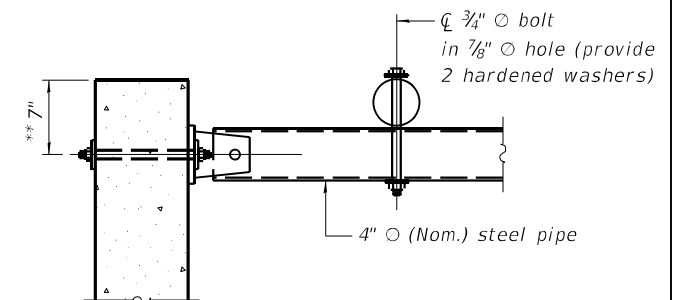
**DETAIL A**



**DETAIL B**



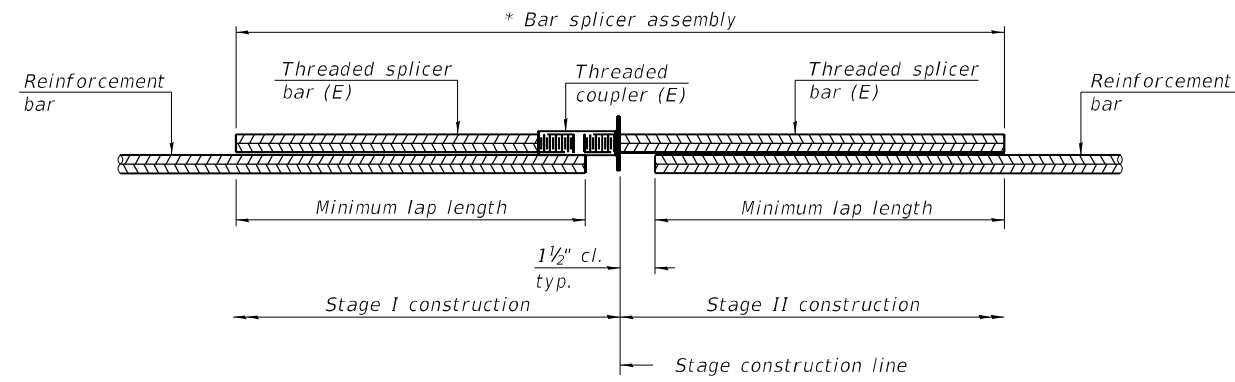
**VIEW C-C**  
(See Detail A for dimensions and details not shown.)



**SECTION D-D**

\*\* Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

FILE NAME = Z:\2018\180228\_FT\BIBS\cadd\Structural\Dgn\W013\007-Traversable Pipe Grate Details For End Section.dgn

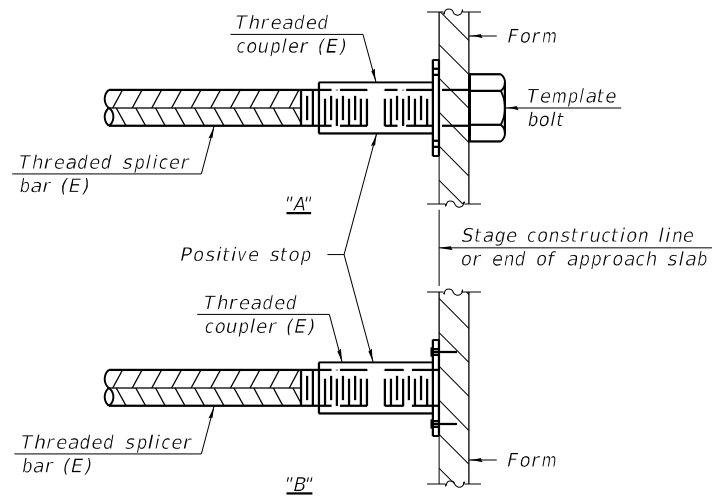


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bottom Slab	#6	44	3'-10"
Top Slab	#6	44	3'-10"
Exterior Walls	#4	12	2'-7"
Interior Wall	#4	6	2'-7"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

**Notes:**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

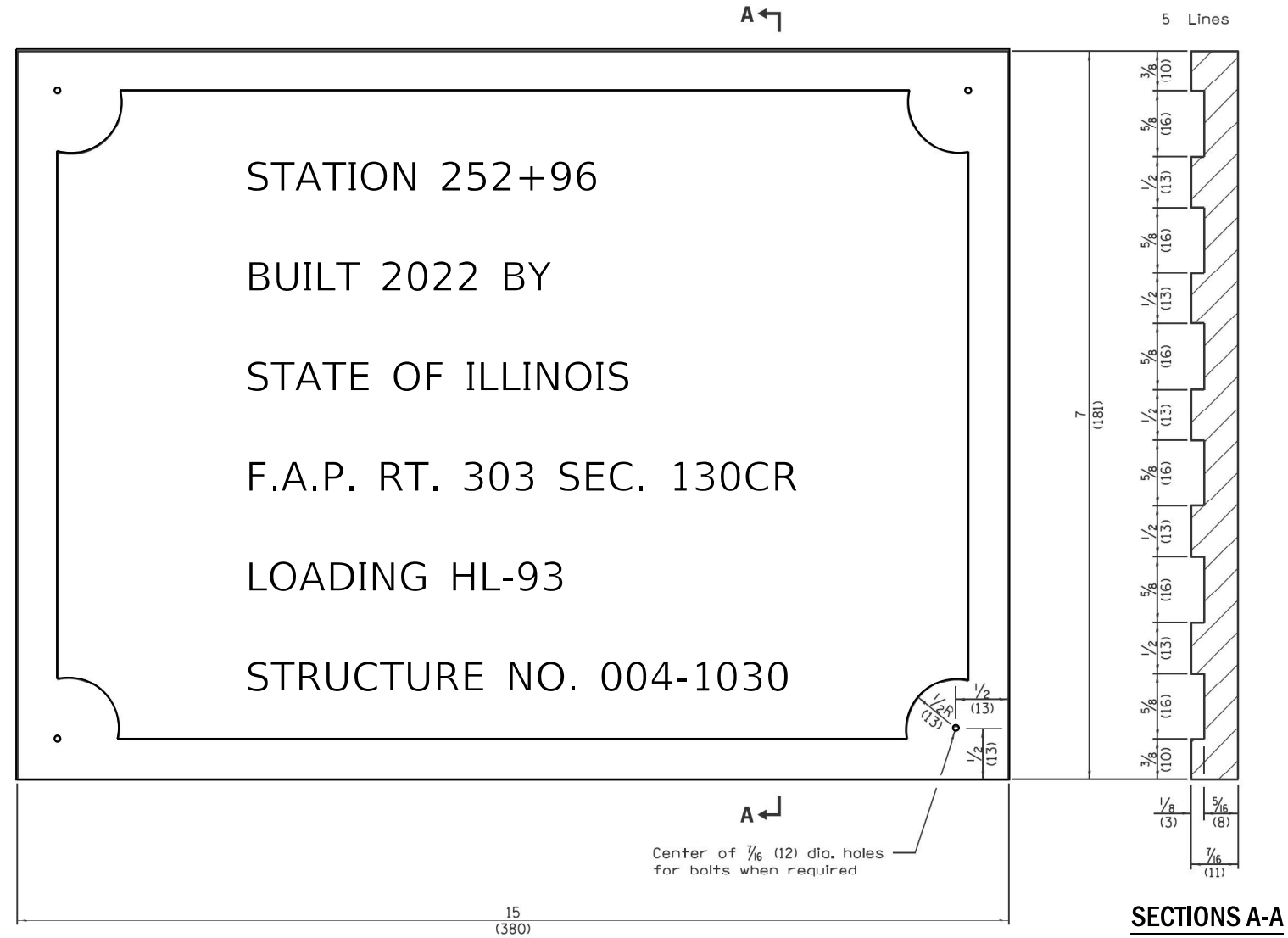
FILE NAME = Z:\2018\180228 FTB18\cadd\Structural\Dgn\W013\088\_Bar\_Splicer\_Assembly.dgn

USER NAME = jmueller	DESIGNED - CPT	REVISED -
	CHECKED - JZ	REVISED -
PLOT SCALE =	DRAWN - CPT	REVISED -
PLOT DATE = 12/6/2021	CHECKED - JZ	REVISED -

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303	130CR	BOONE	90	38
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



# NAME PLATE FOR CULVERTS DETAIL



SEE HIGHWAY STANDARD 515001 FOR MORE INFORMATION

FILE NAME = Z:\2018\1810228\_PTB189\cadd\Civil\Drawings\1810228\_1173D264N4B-shh-DTL\_01.dgn

**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kccortopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**NAME PLATE FOR CULVERT DETAIL**

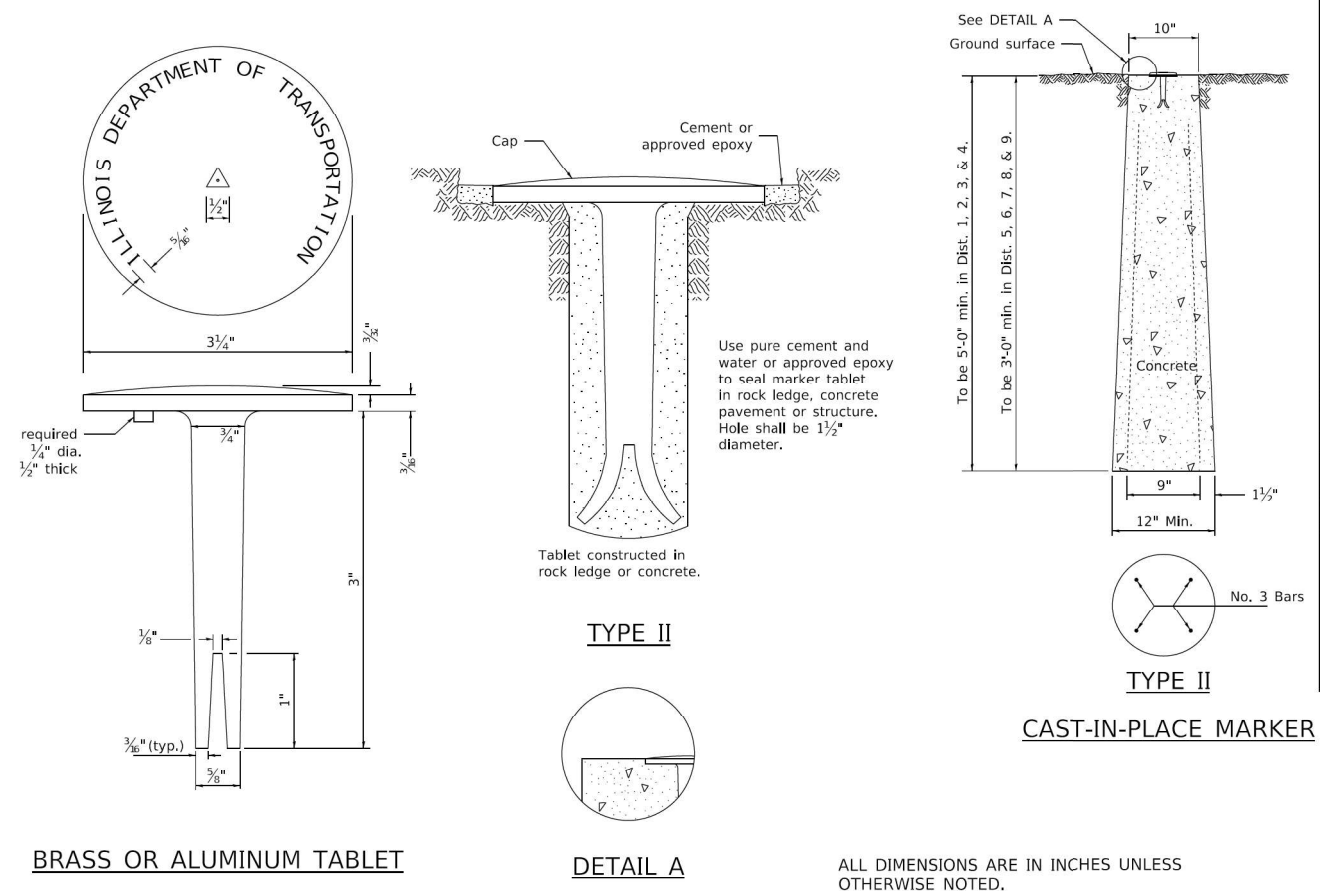
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	40
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

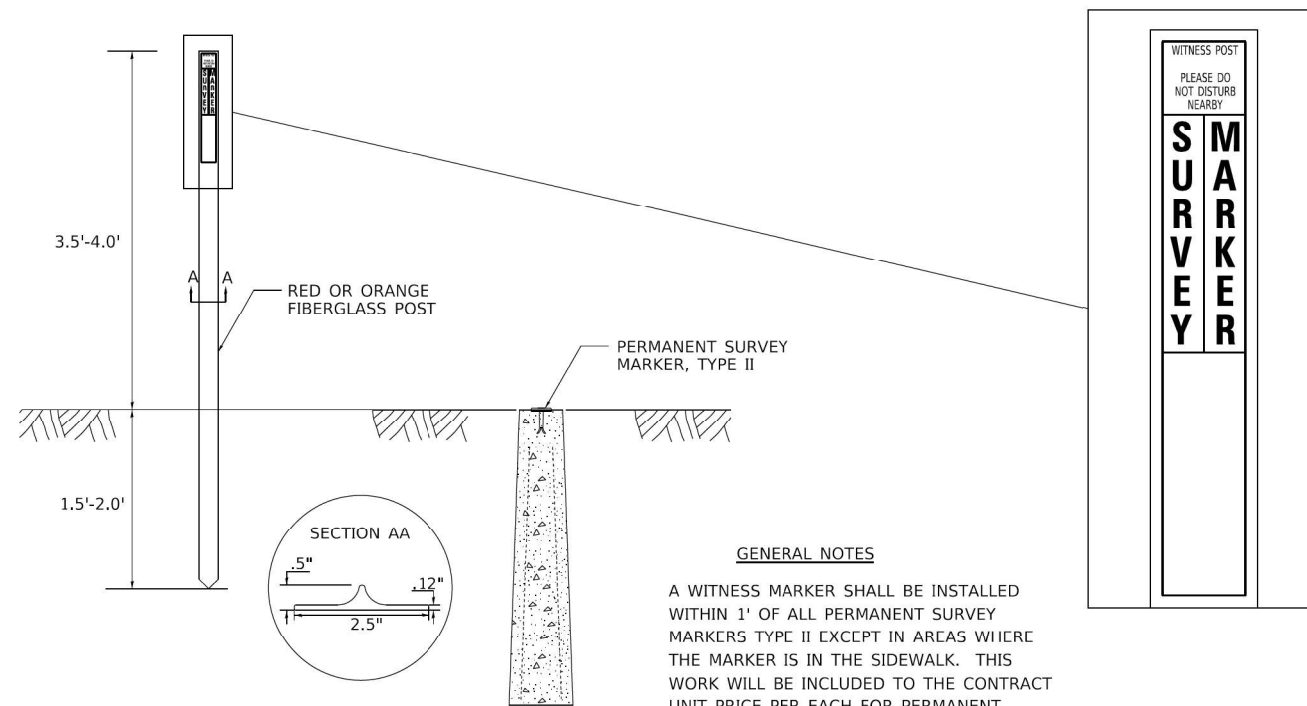




# PERMANENT SURVEY MARKERS, TYPE II



# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



**GENERAL NOTES**

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

FILE NAME = Z:\2018\1810228\_PTB18189\cadd\Civil\Drawings\1810228-01.dgn

**WBK ENGINEERING, LLC**  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

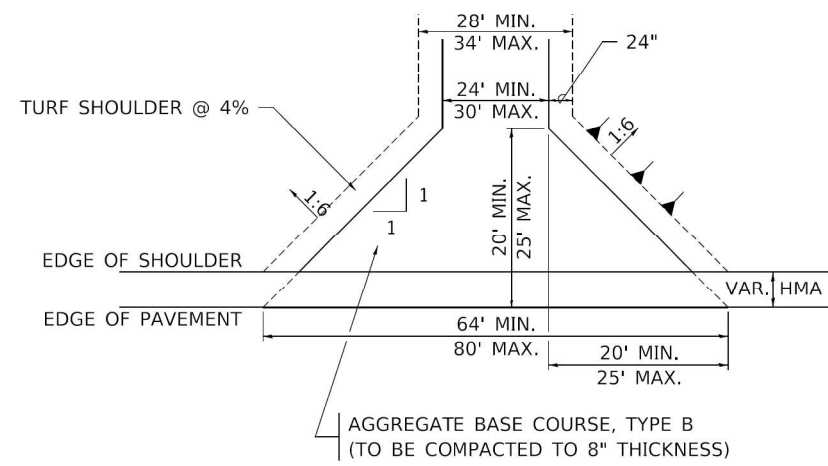
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 2 STANDARDS**

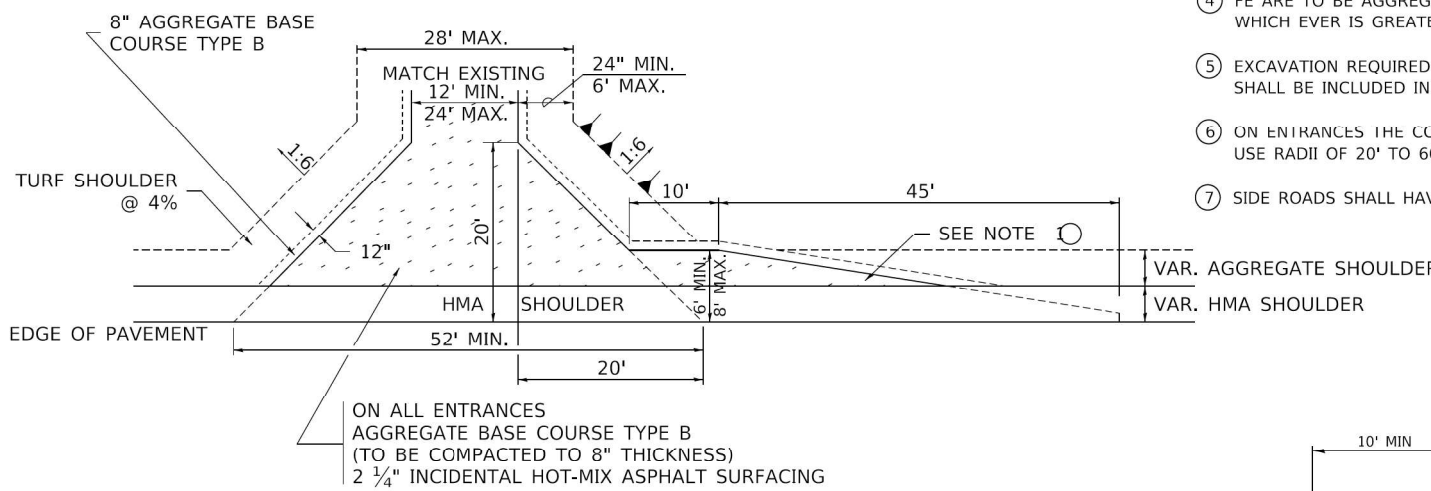
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	43
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

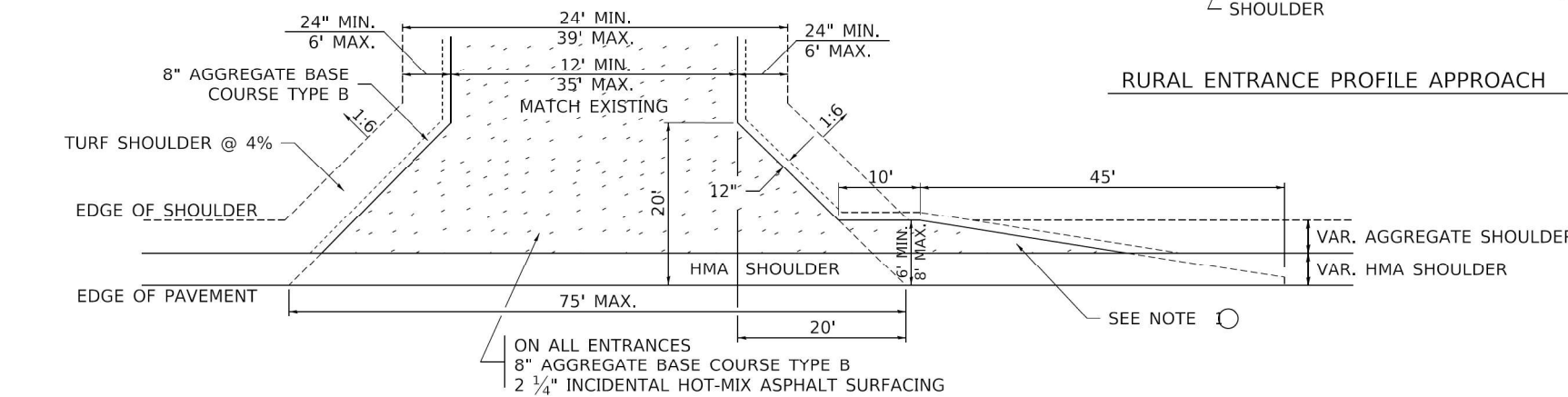
# HOT-MIX ASPHALT APPROACHES AND MAILBOX RETURNS



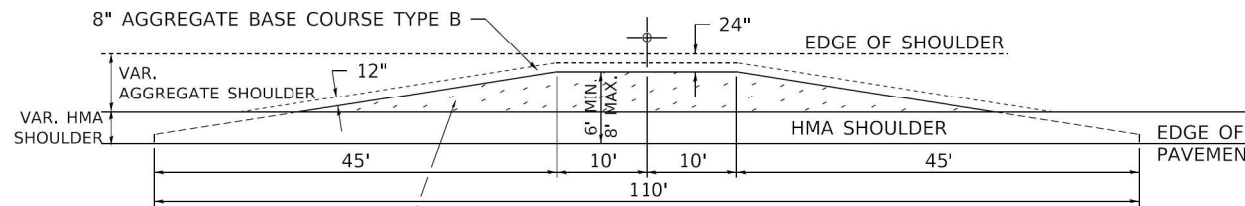
**FIELD ENTRANCE**



**PRIVATE ENTRANCE**



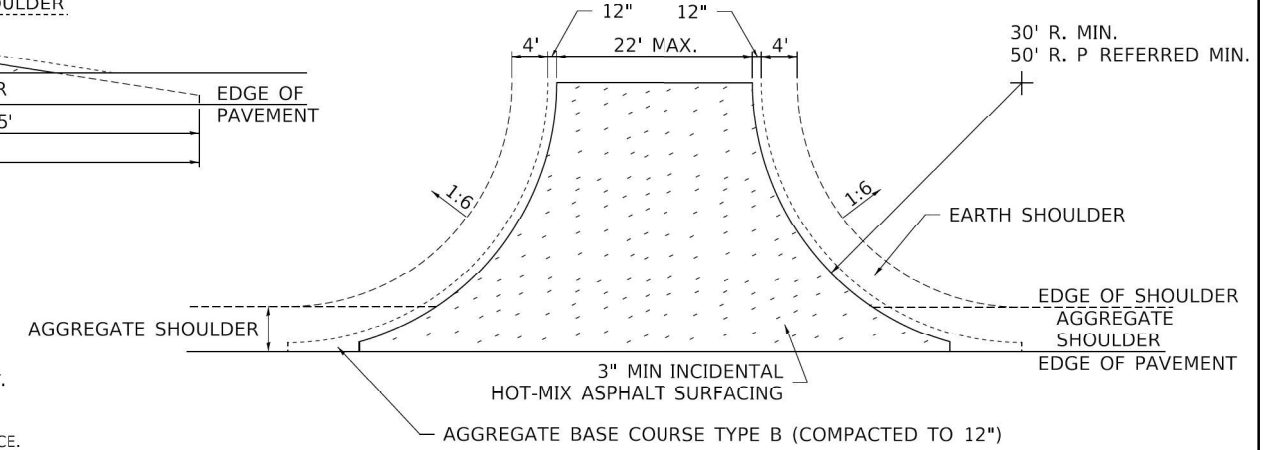
**COMMERCIAL ENTRANCE**



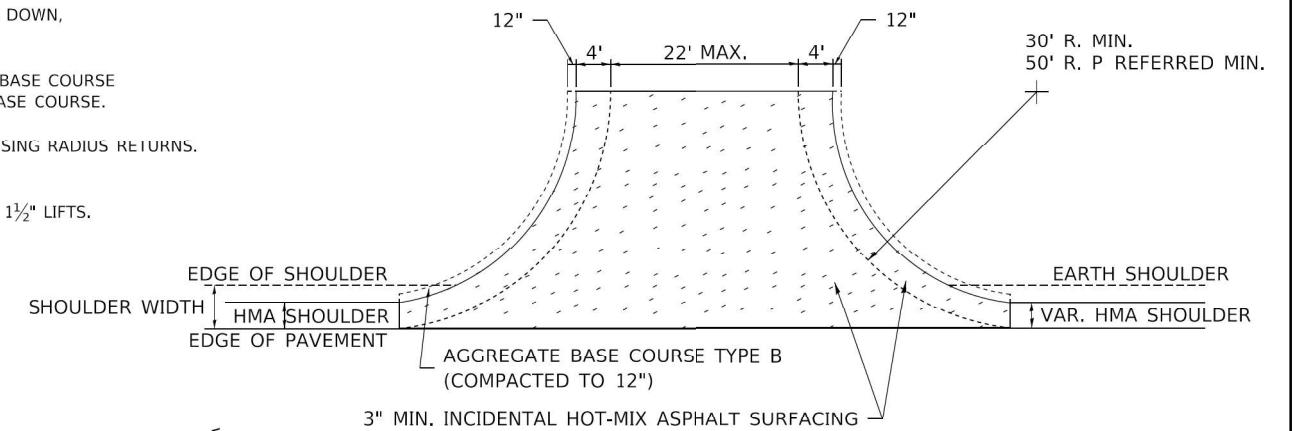
**MAILBOX TURNOUT**

**NOTE**

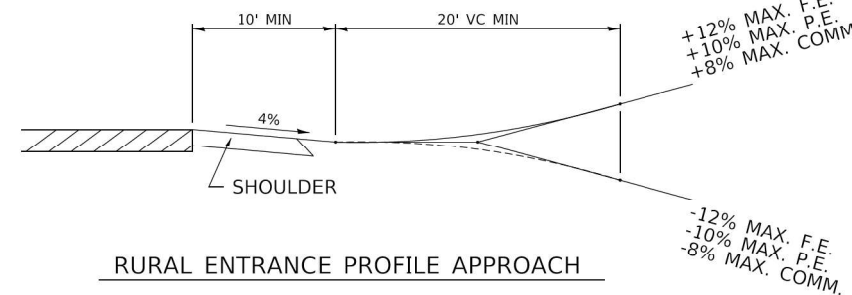
- TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
- ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- ALL PE & CE TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2 1/4" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
- FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
- EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE.
- ON ENTRANCES THE CONTRACTOR HAS THE OPTION OF USING RADIUS RETURNS. USE RADII OF 20' TO 60'.
- SIDE ROADS SHALL HAVE 3" INCIDENTAL PLACED IN TWO 1 1/2" LIFTS.



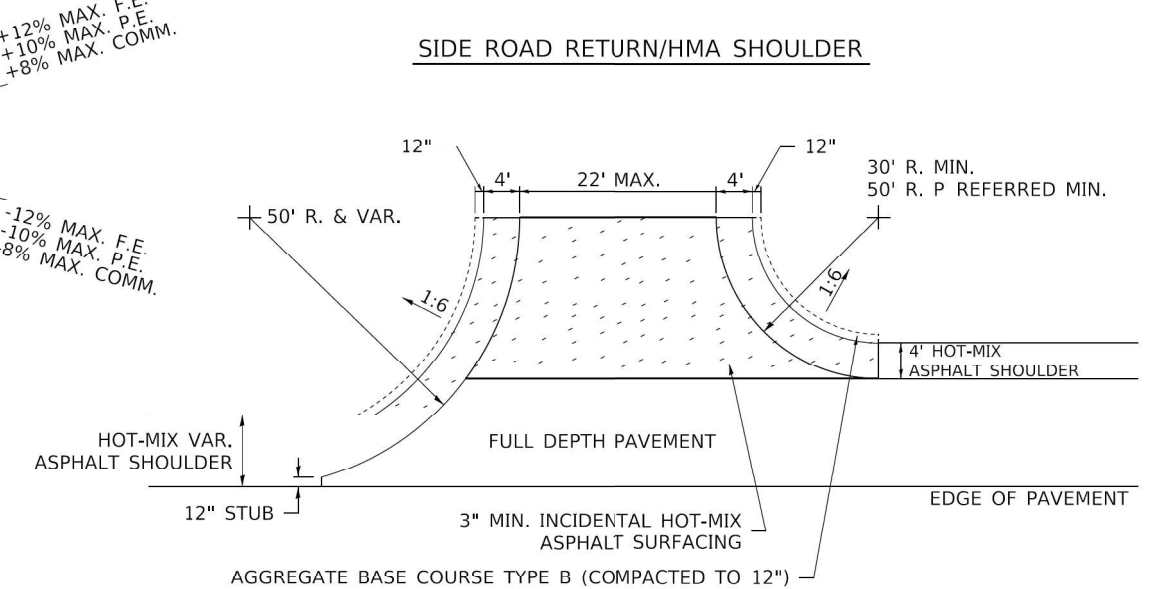
**SIDE ROAD RETURN/EARTH SHOULDER**



**SIDE ROAD RETURN/HMA SHOULDER**



**RURAL ENTRANCE PROFILE APPROACH**



**SIDE ROAD RETURN WITH RIGHT TURN LANE**

FILE NAME = Z:\2018\180228\_PTB18189\cadd\Civil\Drawings\13\_IL\_173D26-4N4B-01-C25TD-02.dgn

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

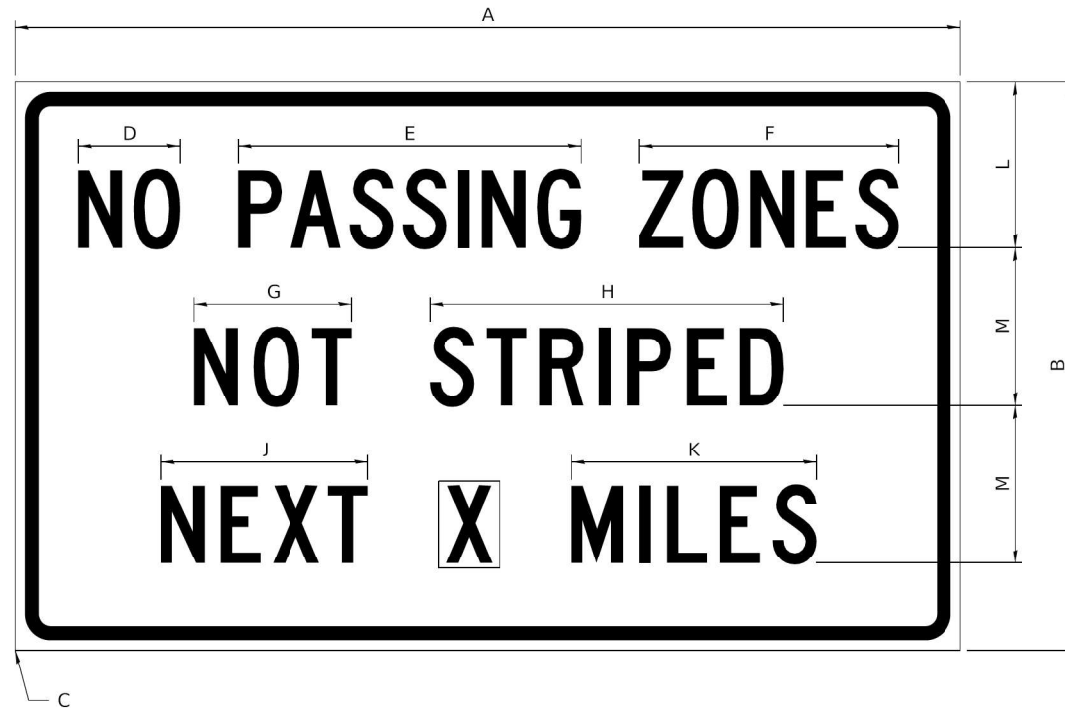
<b>DISTRICT 2 STANDARDS</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	44
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



# WORK ZONE SIGN DETAILS

**ILLINOIS STANDARD G20-I100**



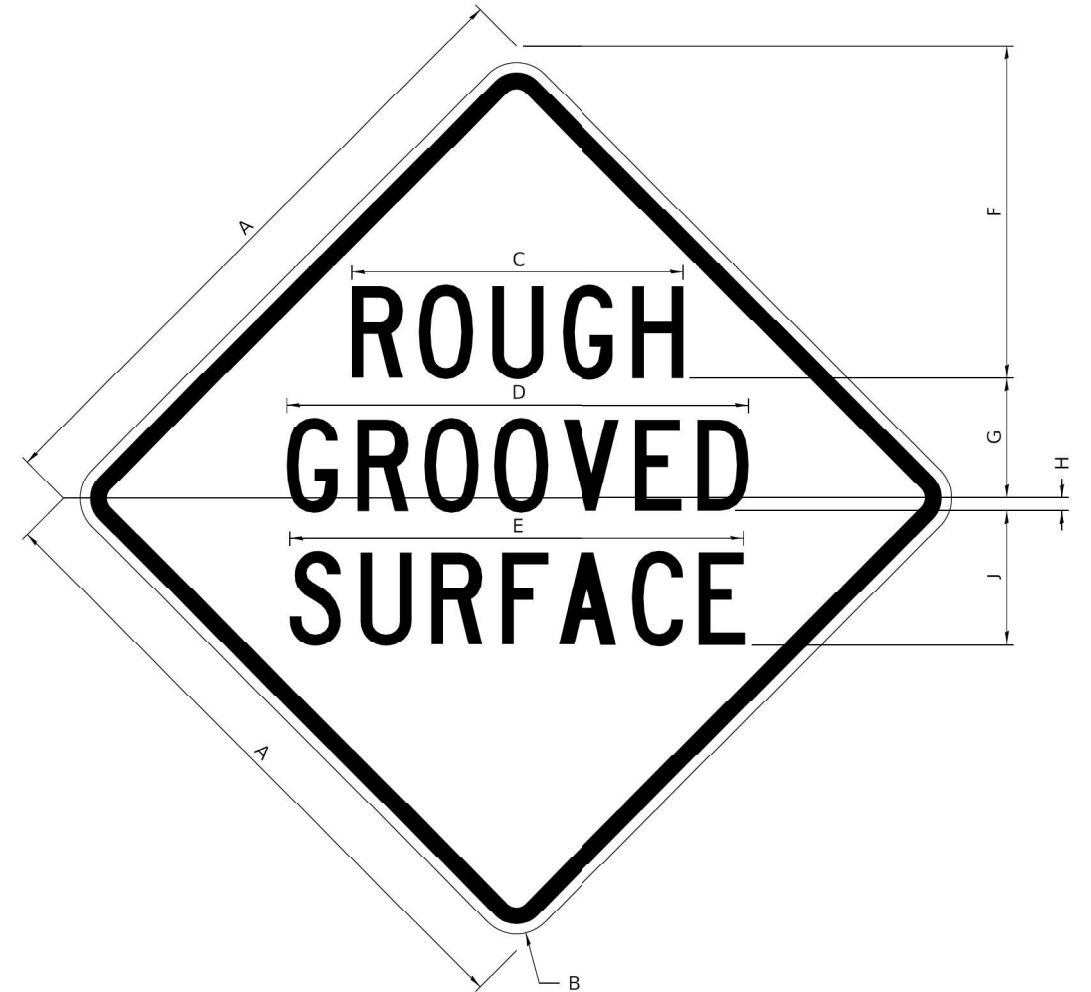
COLOR    LEGEND AND BORDER    BLACK    NON-REFLECTORIZED  
 BACKGROUND    ORANGE    REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

**ILLINOIS STANDARD W8-I107**



COLOR    LEGEND AND BORDER    BLACK    NON-REFLECTORIZED  
 BACKGROUND    ORANGE    REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

**GENERAL NOTES**

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

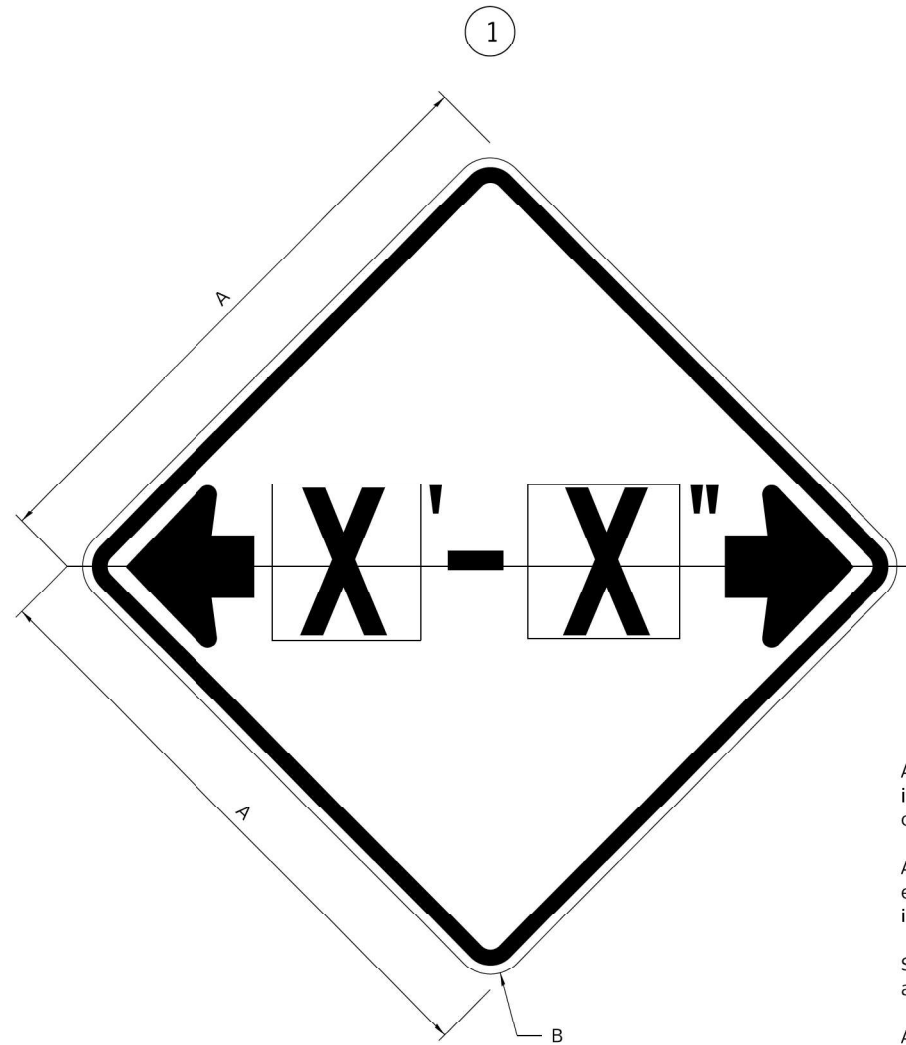
<b>DISTRICT 2 STANDARDS</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	45
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

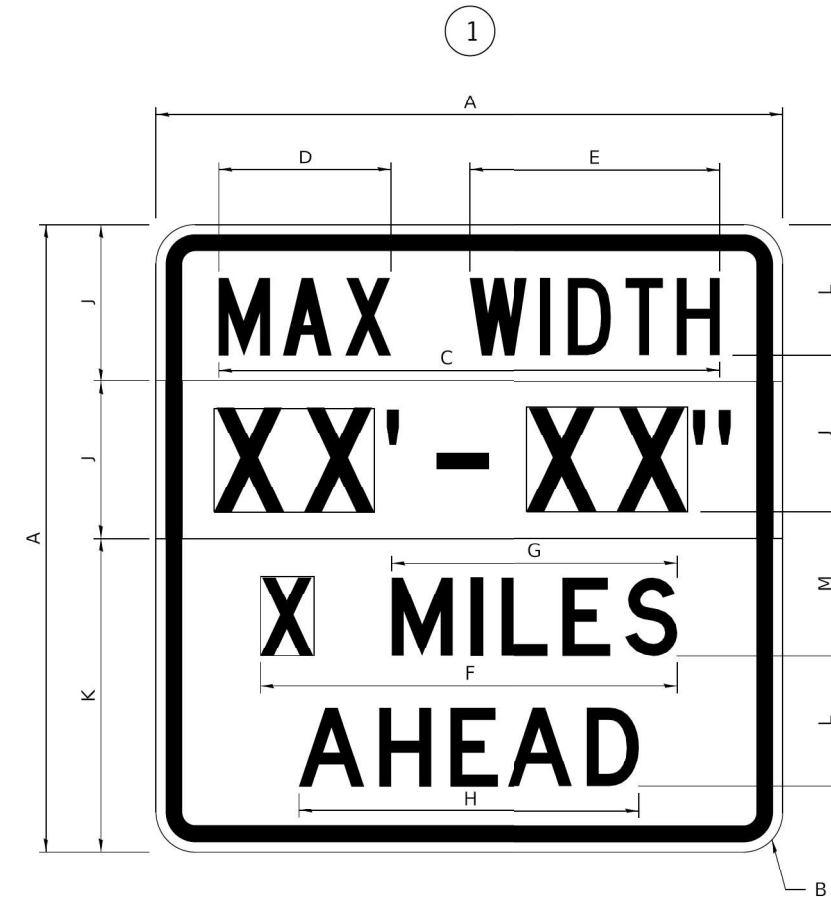
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# WORK ZONE SIGN DETAILS

## ILLINOIS STANDARD W12-I102



## ILLINOIS STANDARD W12-I103



### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

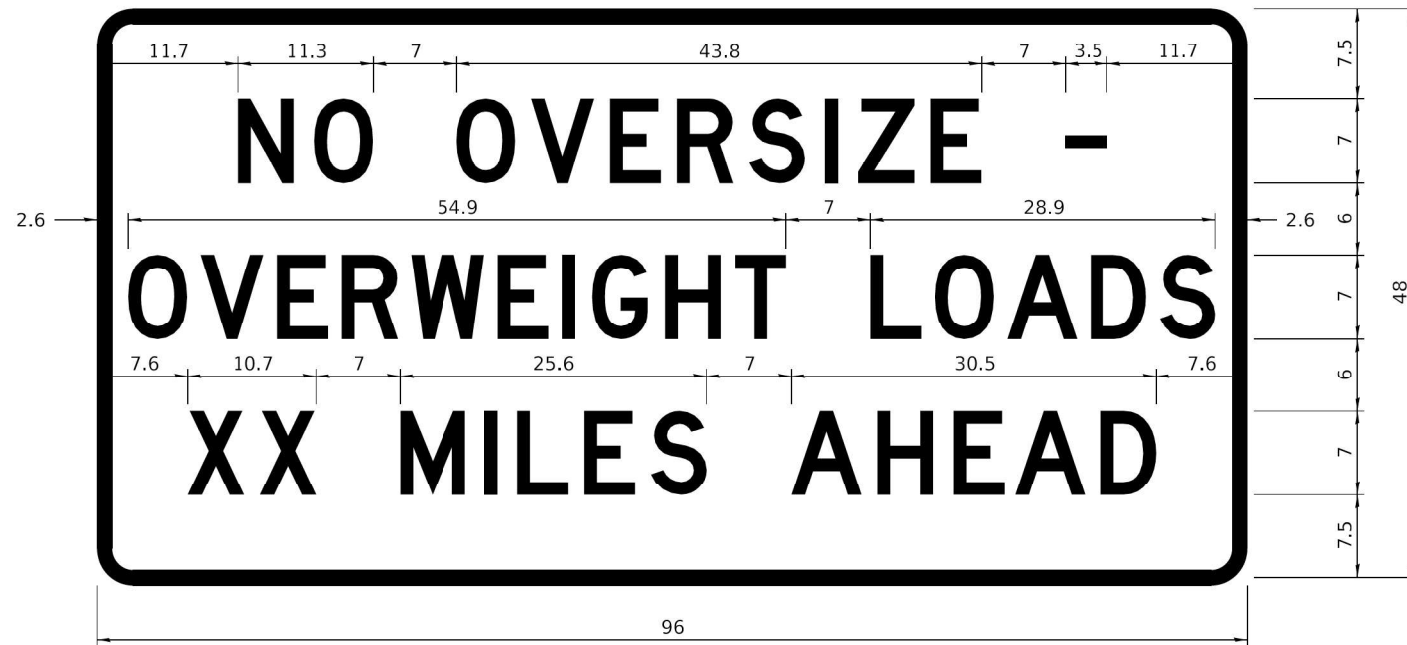
Sign not to scale

XX-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

# WORK ZONE SIGN DETAILS

## ROAD CLOSED TO OVERSIZED LOADS

## STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;  
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;  
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME = Z:\2018\180228\_PTB18189\cadd\Civil\Drawings\W013\_IL\_173D26-4N4B-sil-c25TD-02.dgn

WORK ZONE SIGN DETAILS SHEET 3 OF 4 34.1



WBK ENGINEERING, LLC  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

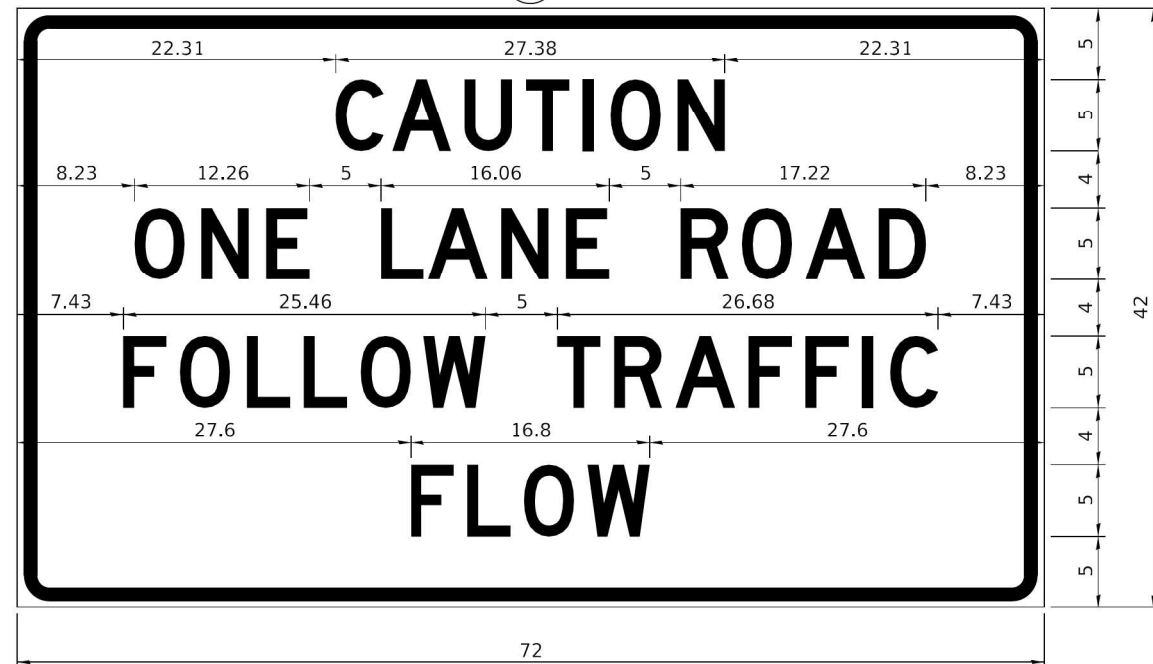
DISTRICT 2 STANDARDS	
SCALE:	SHEET OF SHEETS STA. TO STA.

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	47
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

**ENTRANCE SIGN FOR USE  
WITH TEMPORARY SIGNALS**

**WORK ZONE SIGN DETAILS**

2



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;  
[CAUTION] D; [ONE LANE ROAD] D;  
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

**Table Of Widths And Spaces**

22.31	C	0.62	A	0.94	U	0.94	T	0.94	I	1.17	O	1.17	N	3.36	22.31
	3.36		4.18		3.36		3.04		0.78		3.52		3.36		

8.23	O	1.17	N	1.18	E
	3.51		3.36		3.04

5.00	L	0.31	A	0.94	N	1.17	E
	3.05		4.18		3.36		3.05

5.00	R	0.93	O	0.94	A	0.93	D	8.23
	3.36		3.52		4.18		3.36	

7.43	F	0.94	O	1.17	L	0.94	L	0.94	O	0.94	W
	3.04		3.52		3.04		3.05		3.51		4.37

5.00	T	0.94	R	0.94	A	0.93	F	0.94	F	0.94	I	1.18	C	7.43
	3.05		3.36		4.18		3.05		3.04		0.78		3.35	

27.60	F	0.94	L	0.94	O	0.93	W	27.60
	3.05		3.04		3.52		4.38	

**GENERAL NOTES**

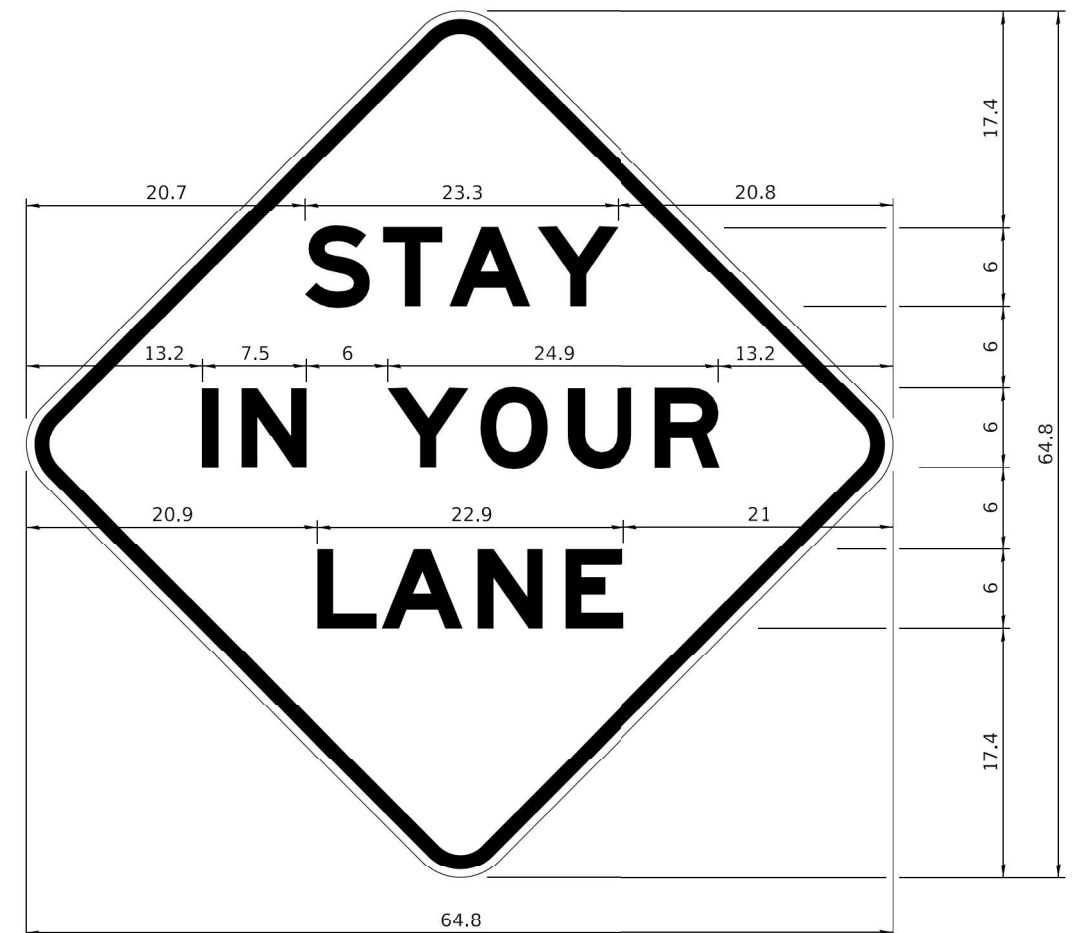
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**STAY IN YOUR LANE**



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;  
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

**Table of Letter and Object Lefts**

S	T	A	Y
20.7	26.8	31.6	38.0

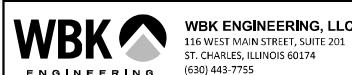
I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

FILE NAME = Z:\2018\180228\_PTB189\cadd\Civil\Drawings\W013\_IL\_173D26-4N4B-sil-c25TD-02.dgn

**WORK ZONE SIGN DETAILS SHEET 4 OF 4 34.1** Sign not to scale



WBK ENGINEERING, LLC  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 2 STANDARDS**

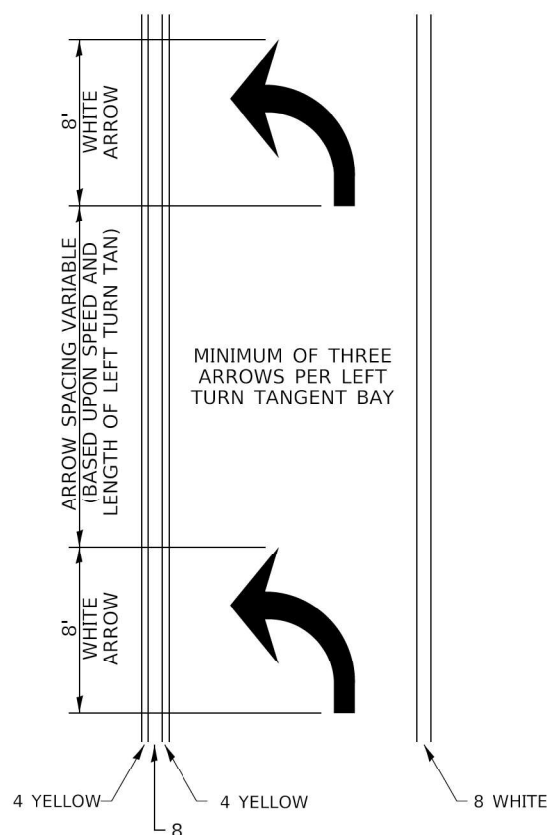
SCALE: SHEET OF SHEETS STA. TO STA.

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	48
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



# TYPICAL PAVEMENT MARKINGS

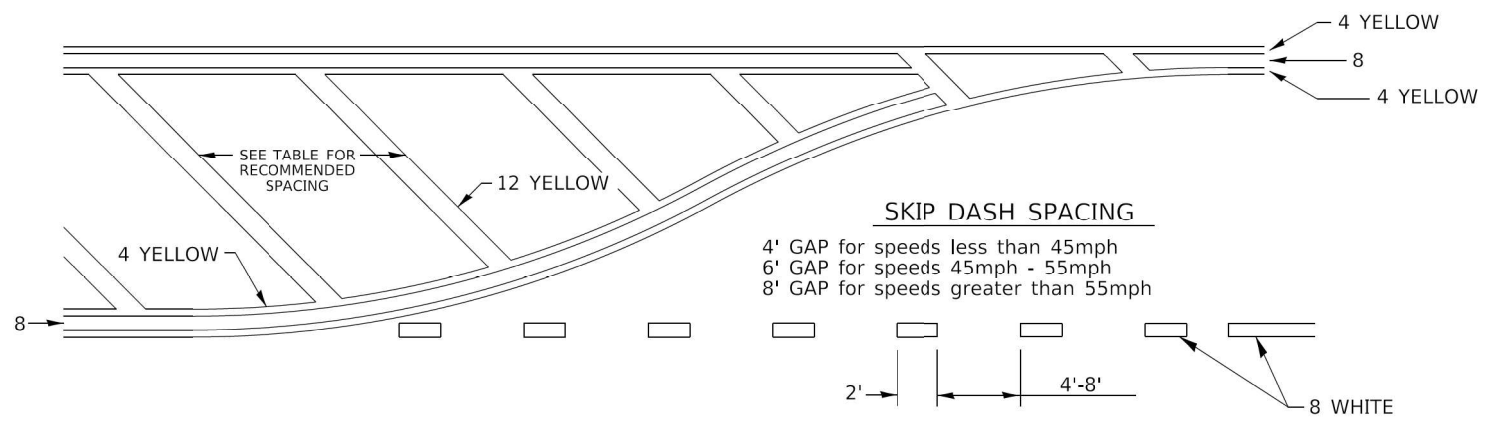
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

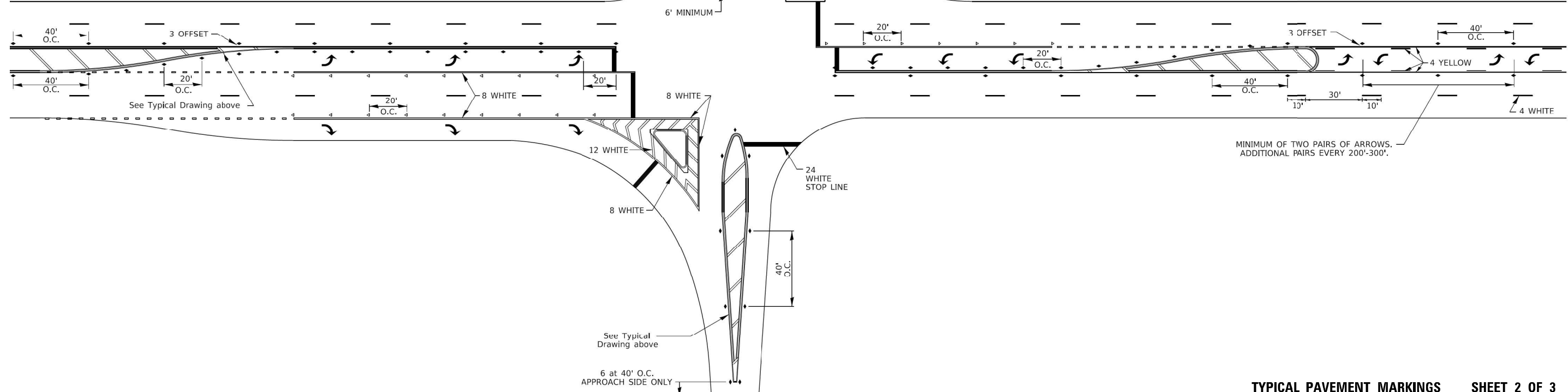
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME = Z:\2018\180228\_PTB18189\cadd\Civil\Drawings\180228-02.dwg

**WBK ENGINEERING**  
 WBK ENGINEERING, LLC  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

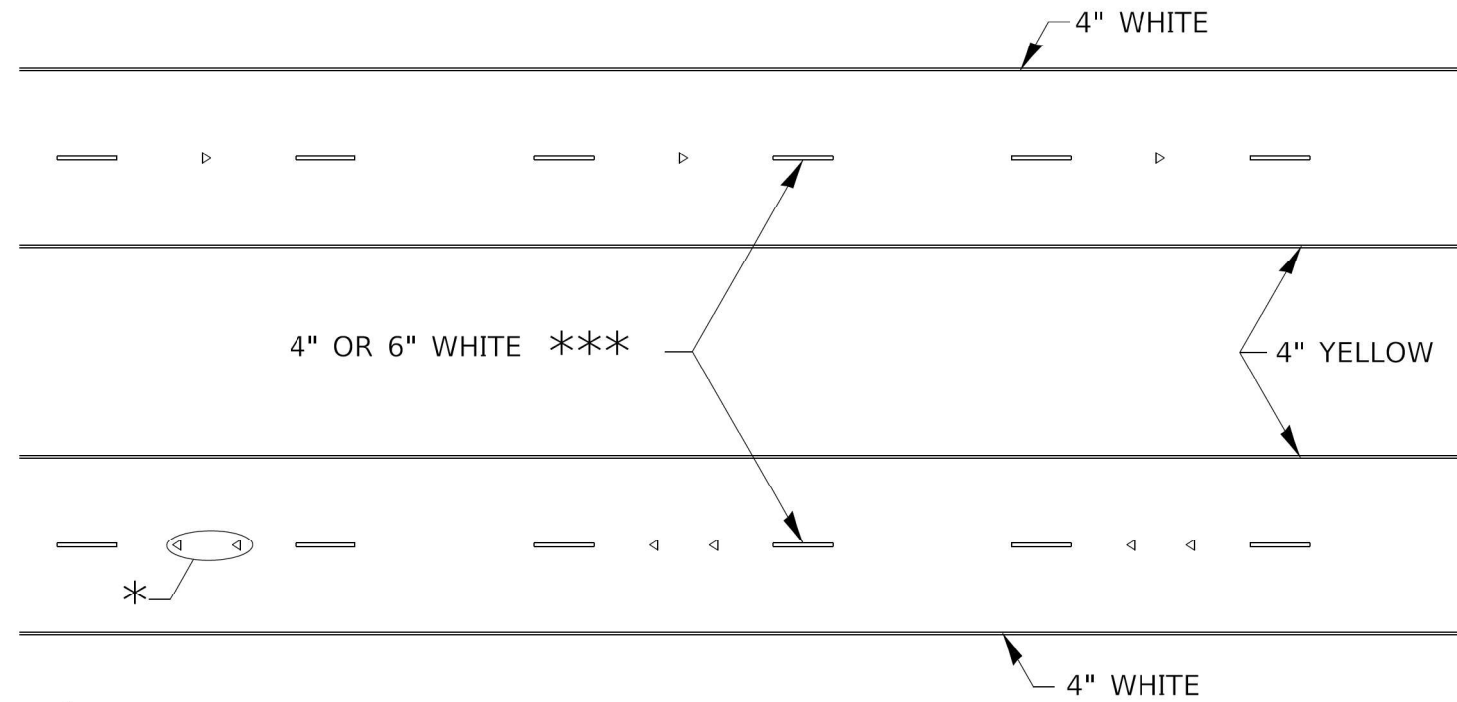
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DISTRICT 2 STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

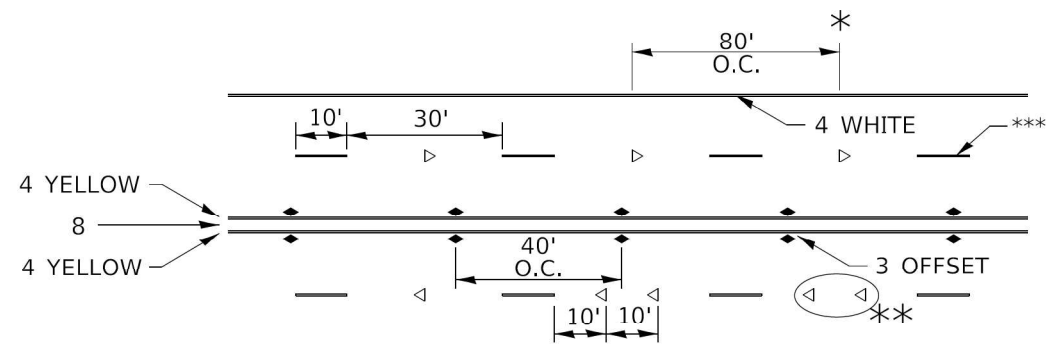
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	50
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

## MULTI-LANE / DIVIDED



\* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

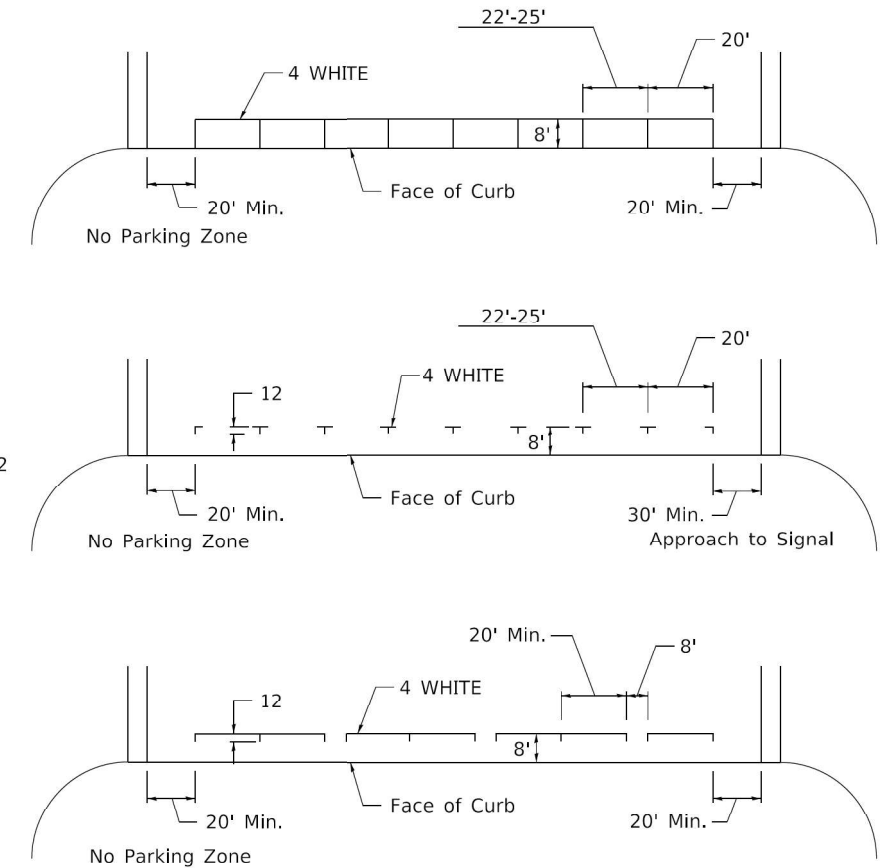
\*\* USE DOUBLE MARKERS WHEN ADT ≥ 20,000

\*\*\* CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

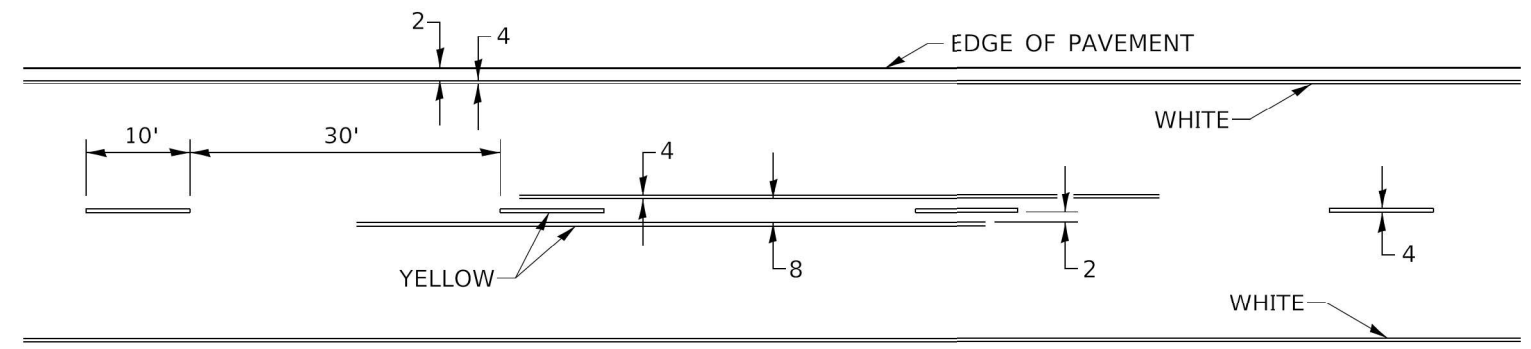
## MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PARKING SPACING



## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



## SYMBOLS

FILE NAME = Z:\2018\1810228\_PTB18189\cadd\Civil\Drawings\1810228-D02.dgn

USER NAME = kcartopassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

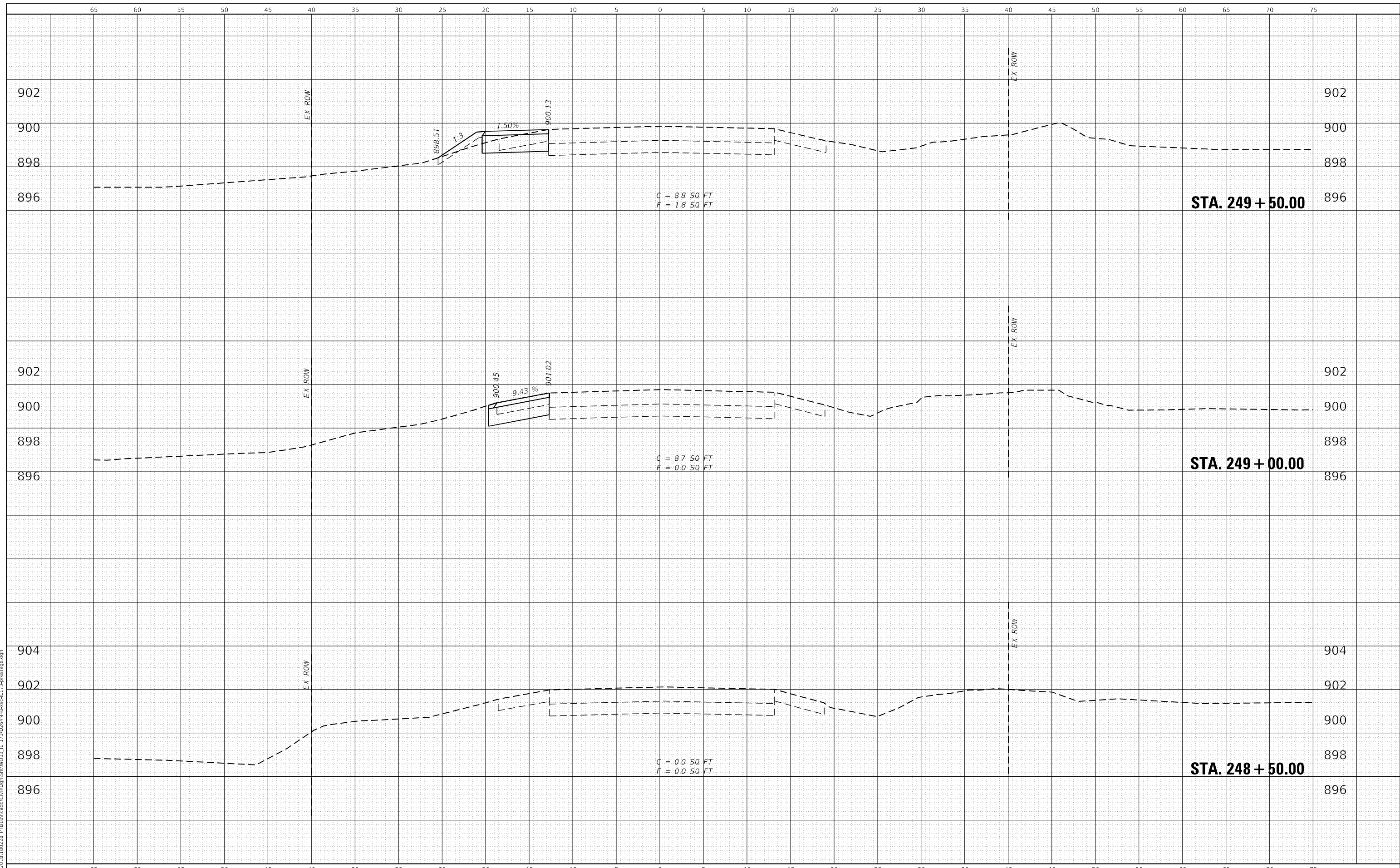
DISTRICT 2 STANDARDS	
SCALE:	SHEET OF SHEETS STA. TO STA.

FAP RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 51
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = Z:\2020\181100228\_PTB189\cad\Civil\Drawings\181100228\_PTB189\_CROSS-SECTION\181100228\_PTB189\_CROSS-SECTION.dwg



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
PLOT SCALE =	1:10	CHECKED -	YOO	REVISED -	
PLOT DATE =	10/13/2021	DATE -	10/15/2021	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - PRESTAGE**

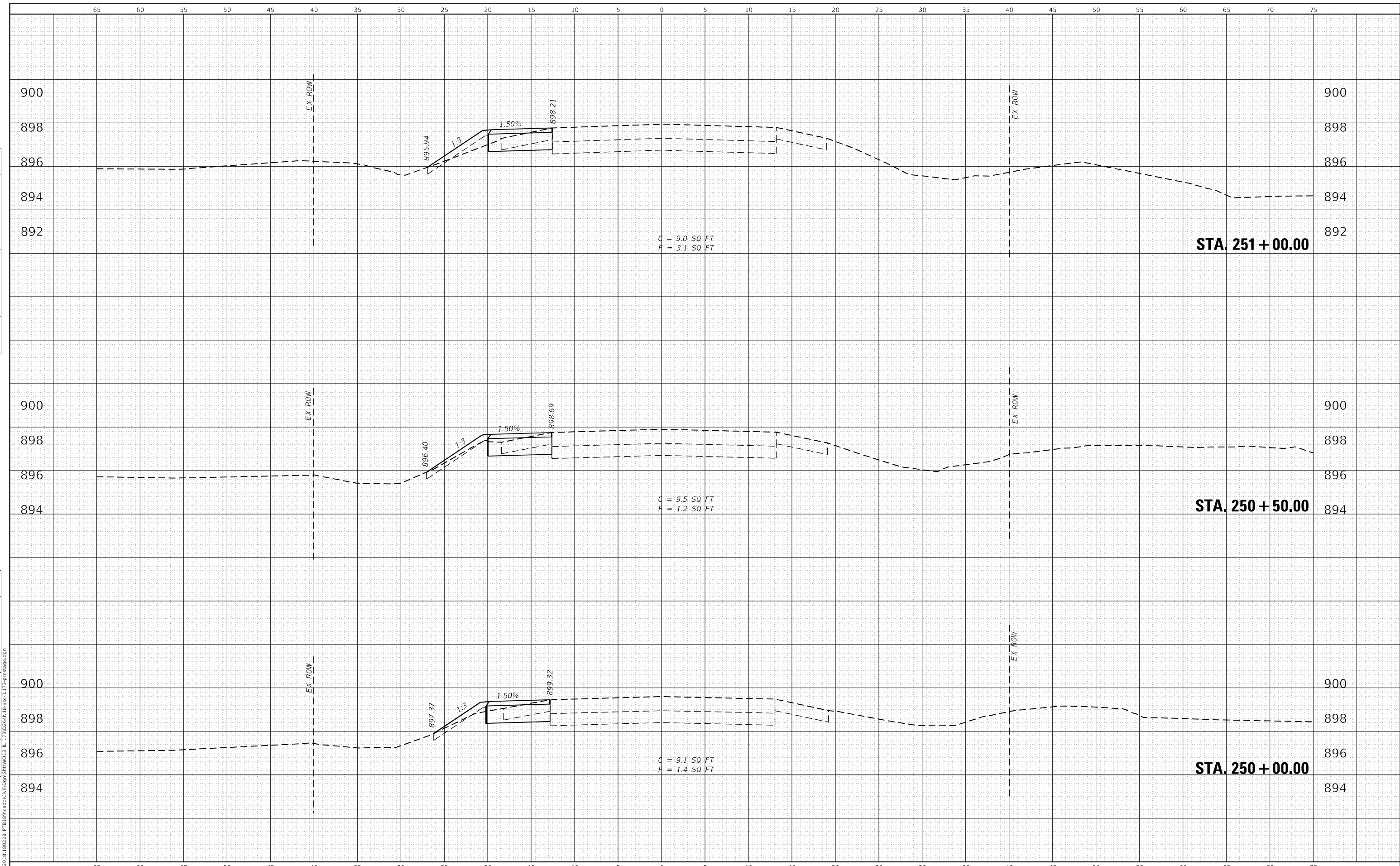
SCALE: H:10 V:5      SHEET X    OF X#    SHEETS    STA. 248+50.00    TO STA. 249+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	52
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME	= kcorpassi
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 10/15/2021
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

DESIGNED	- KAC	REVISED	-
DRAWN	- VLM	REVISED	-
CHECKED	- YOO	REVISED	-
DATE	- 10/15/2021	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - PRESTAGE**

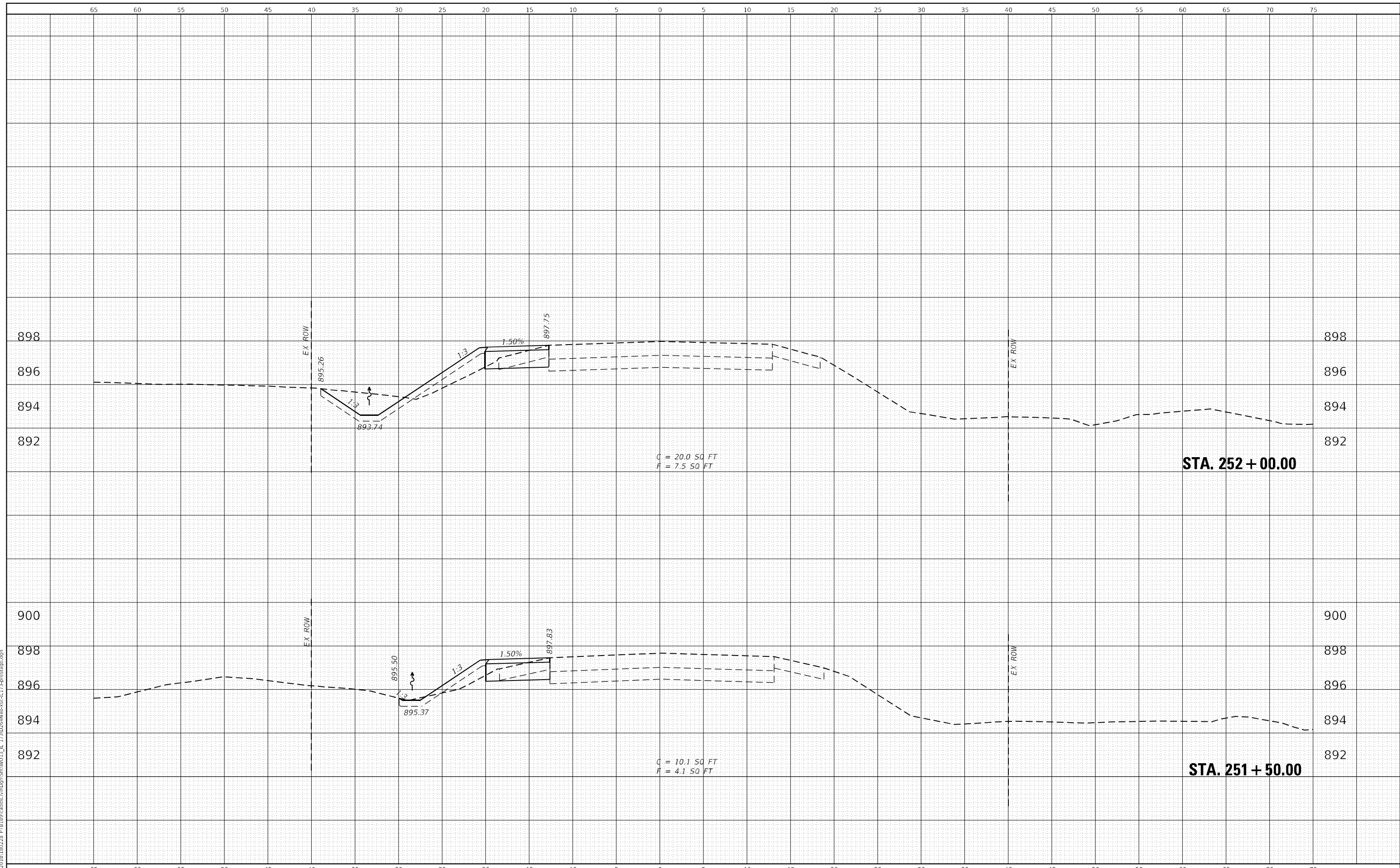
SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 250+00.00 TO STA. 251+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	53
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK AREAS CHECKED	
NO.	

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

FILE NAME = Z:\2020\18180228\_PTB189\cad\Civil\Drawings\18180228-189-001-117-130CR-189-001-117-130CR-189-001-117-130CR.dwg



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	10/15/2021	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	10/13/2021				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

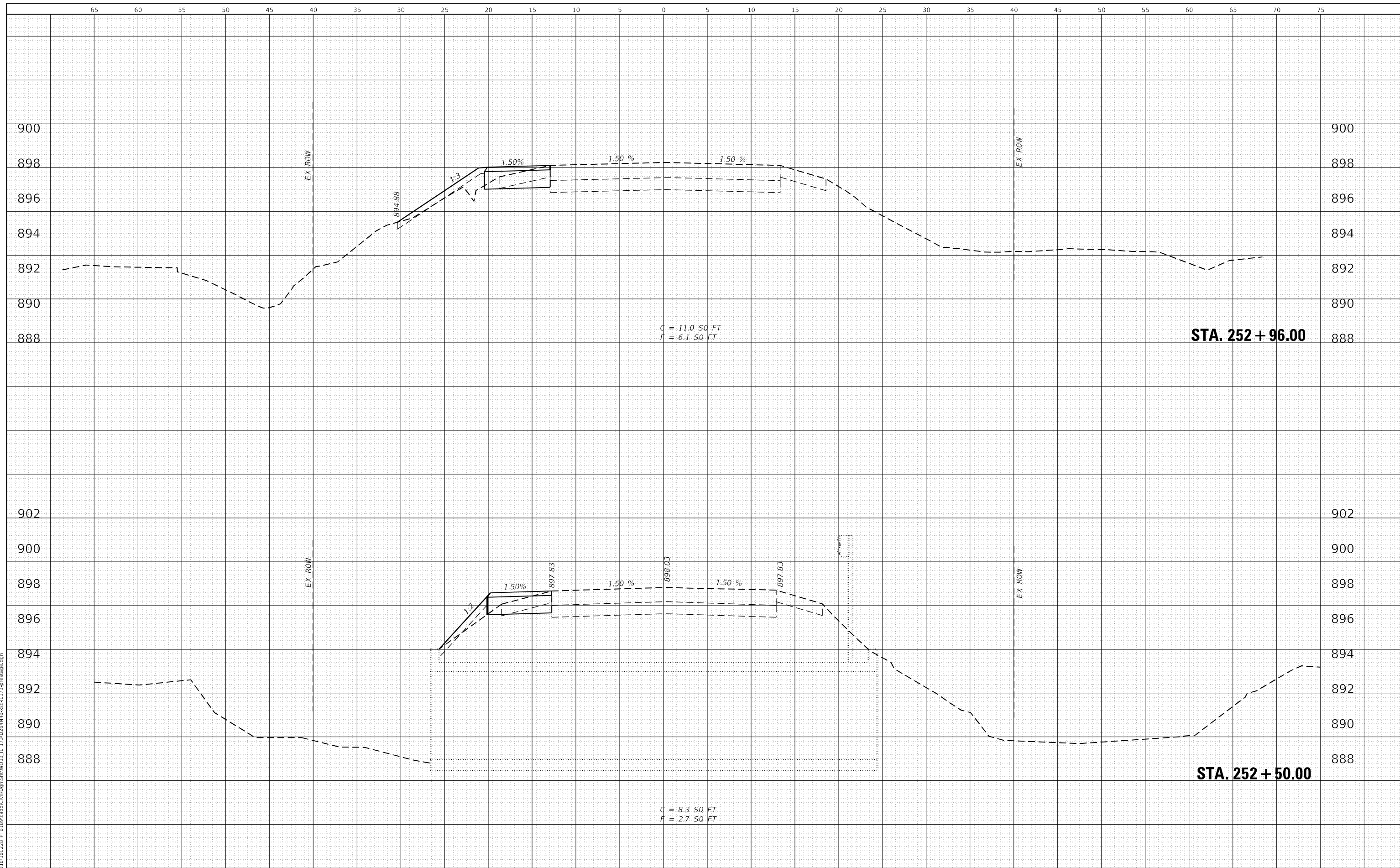
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - PRESTAGE**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 251+50.00 TO STA. 252+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	54
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = Z:\2020\18180228\_PTB189\cad\Culvert\DWG\18180228\_PTB189\_CULV\_11\_17.DWG

**WBK ENGINEERING, LLC**  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

USER NAME	= kcorpassi
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 10/15/2021

REVISIED	-
REVISIED	-
REVISIED	-
REVISIED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
CROSS SECTIONS - PRESTAGE**

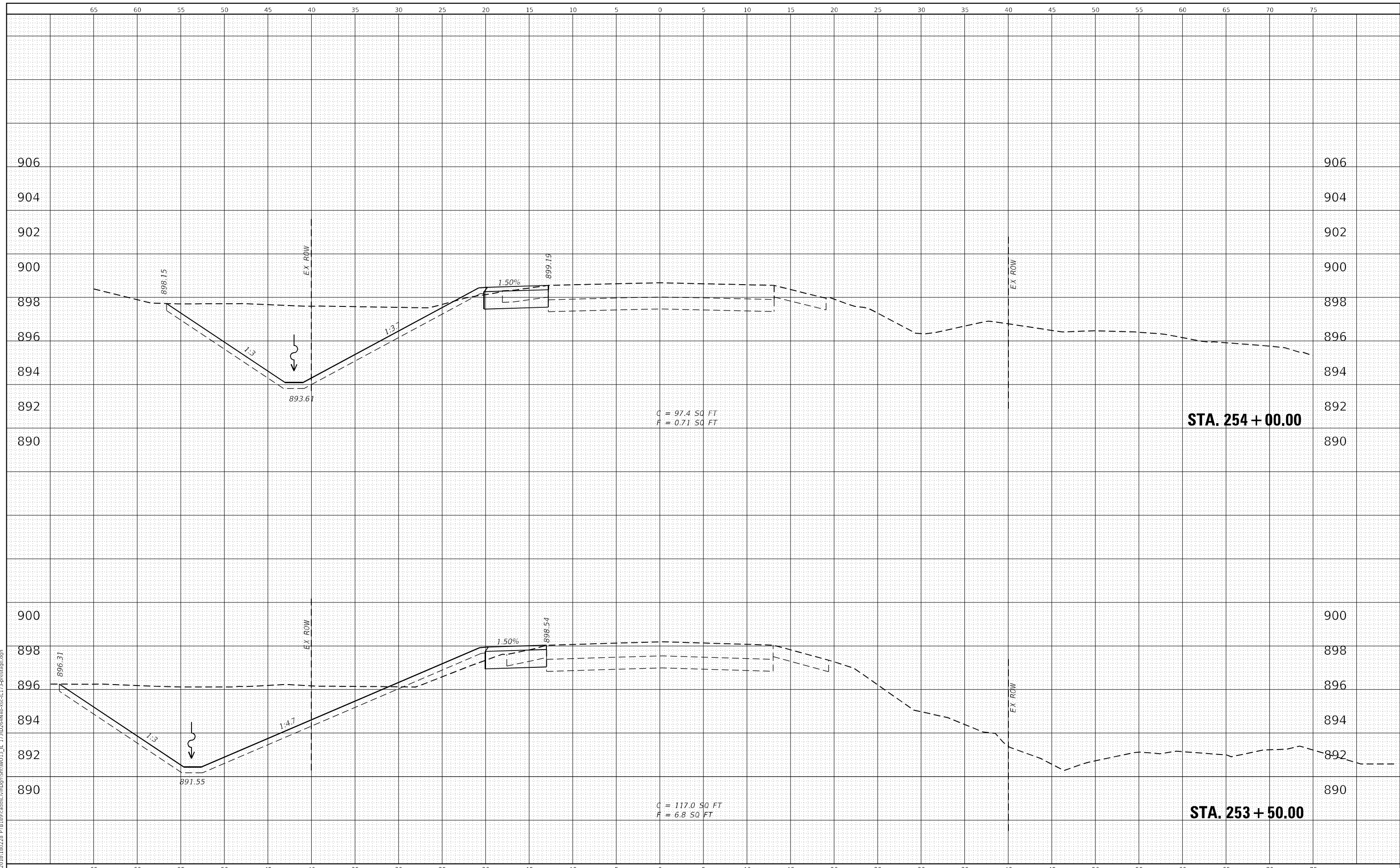
SCALE: H:10 V:5    SHEET X OF X# SHEETS    STA. 252+50.00 TO STA. 252+96.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	55
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
NO.	

FILE NAME = Z:\2020\18100228\_PTB189\cad\Civil\Drawings\18100228\_PTB189\_CROSS-SECTION\_117.dwg



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi		
DESIGNED -	KAC	REVISED -	
DRAWN -	VLM	REVISED -	
CHECKED -	YOO	REVISED -	
DATE -	10/15/2021	REVISED -	
PLOT SCALE =	1:10		
PLOT DATE =	10/13/2021		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - PRESTAGE**

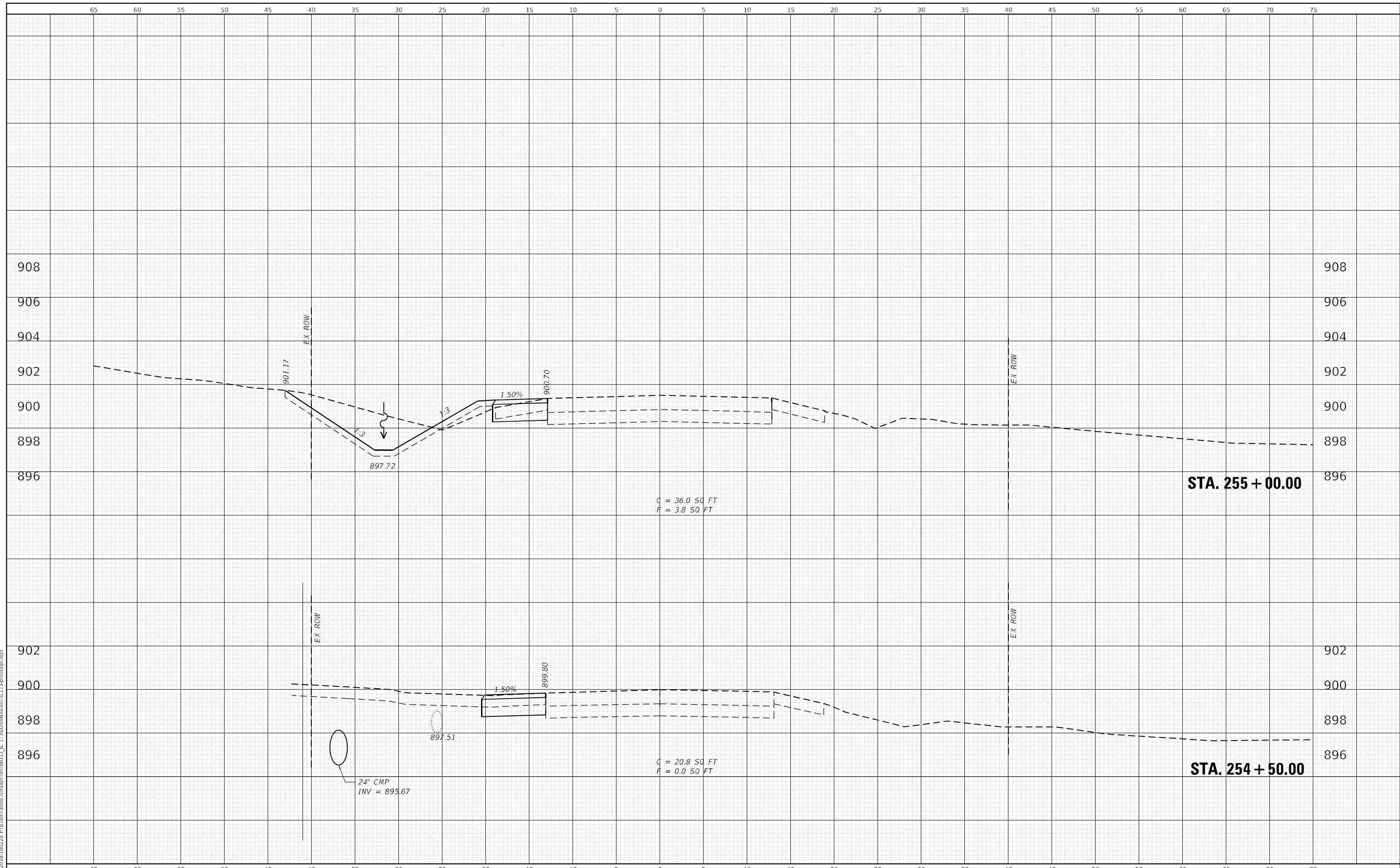
SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 253+50.00 TO STA. 254+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	56
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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

FILE NAME = Z:\2020\181100228\_PTB189\cad\Civil\Drawings\181100228\_11\_17\181100228-11-17-181100228-11-17-181100228-11-17-181100228.dwg



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	10/15/2021	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	10/13/2021				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - PRESTAGE**

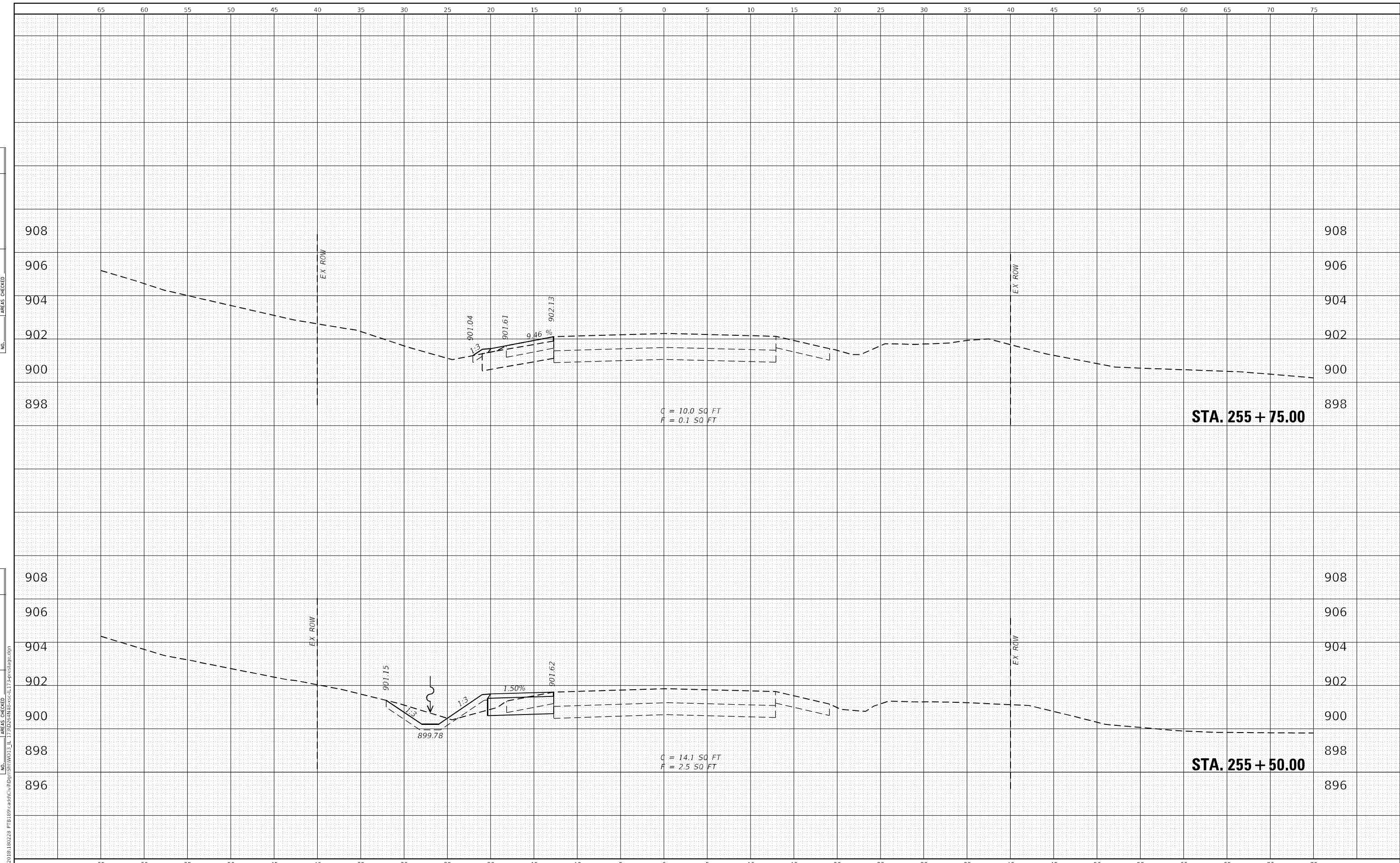
SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 254+50.00 TO STA. 255+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	57
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	10/15/2021	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	10/13/2021				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

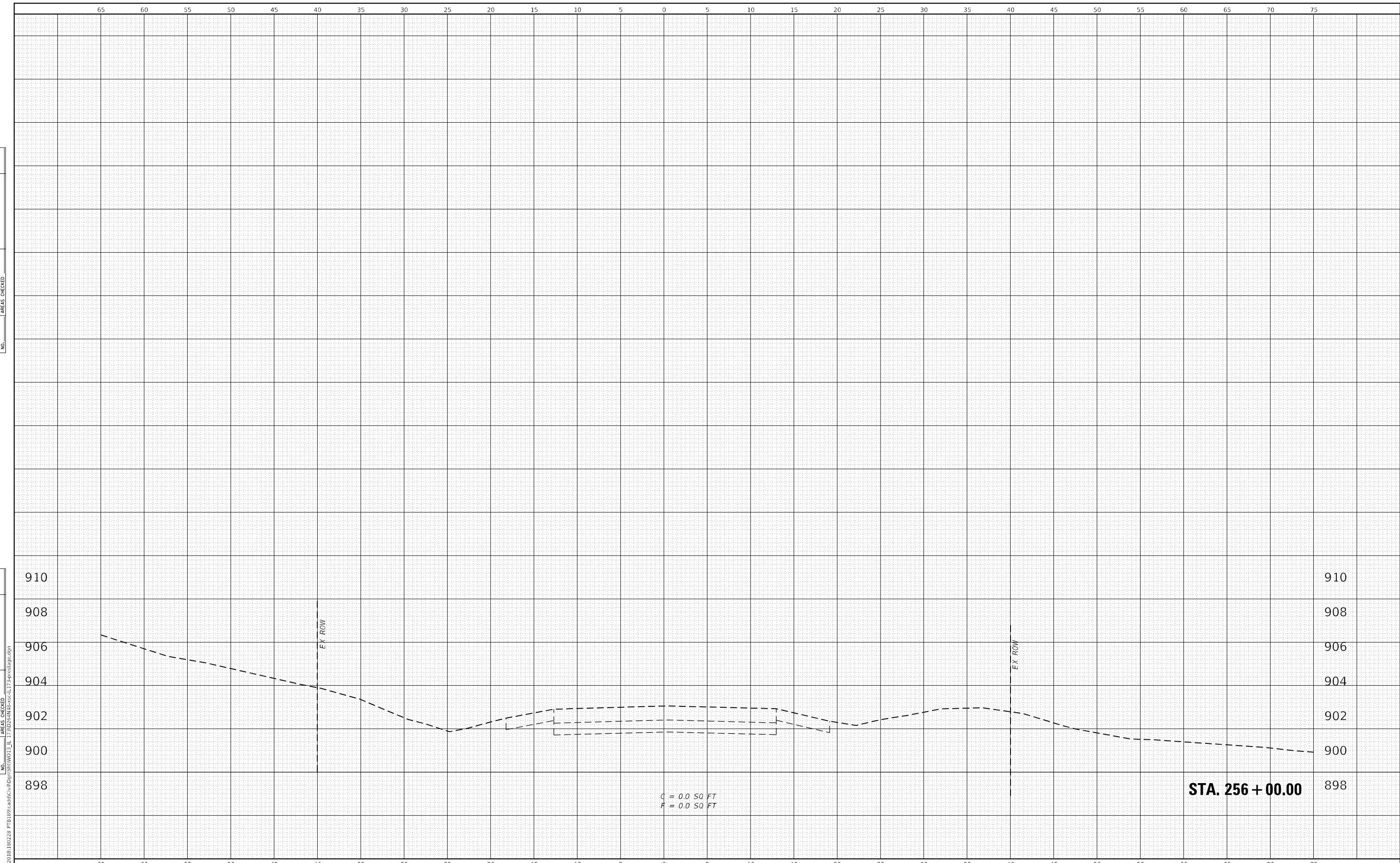
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - PRESTAGE**

SCALE: H:10 V:5      SHEET X    OF X#    SHEETS    STA. 255+50.00    TO STA. 255+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	58
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

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

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



G = 0.0 SQ FT  
F = 0.0 SQ FT

STA. 256 + 00.00

**WBK ENGINEERING, LLC**  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

USER NAME = kcorpassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
CROSS SECTIONS - PRESTAGE**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 256+00.00 TO STA. 256+50.00

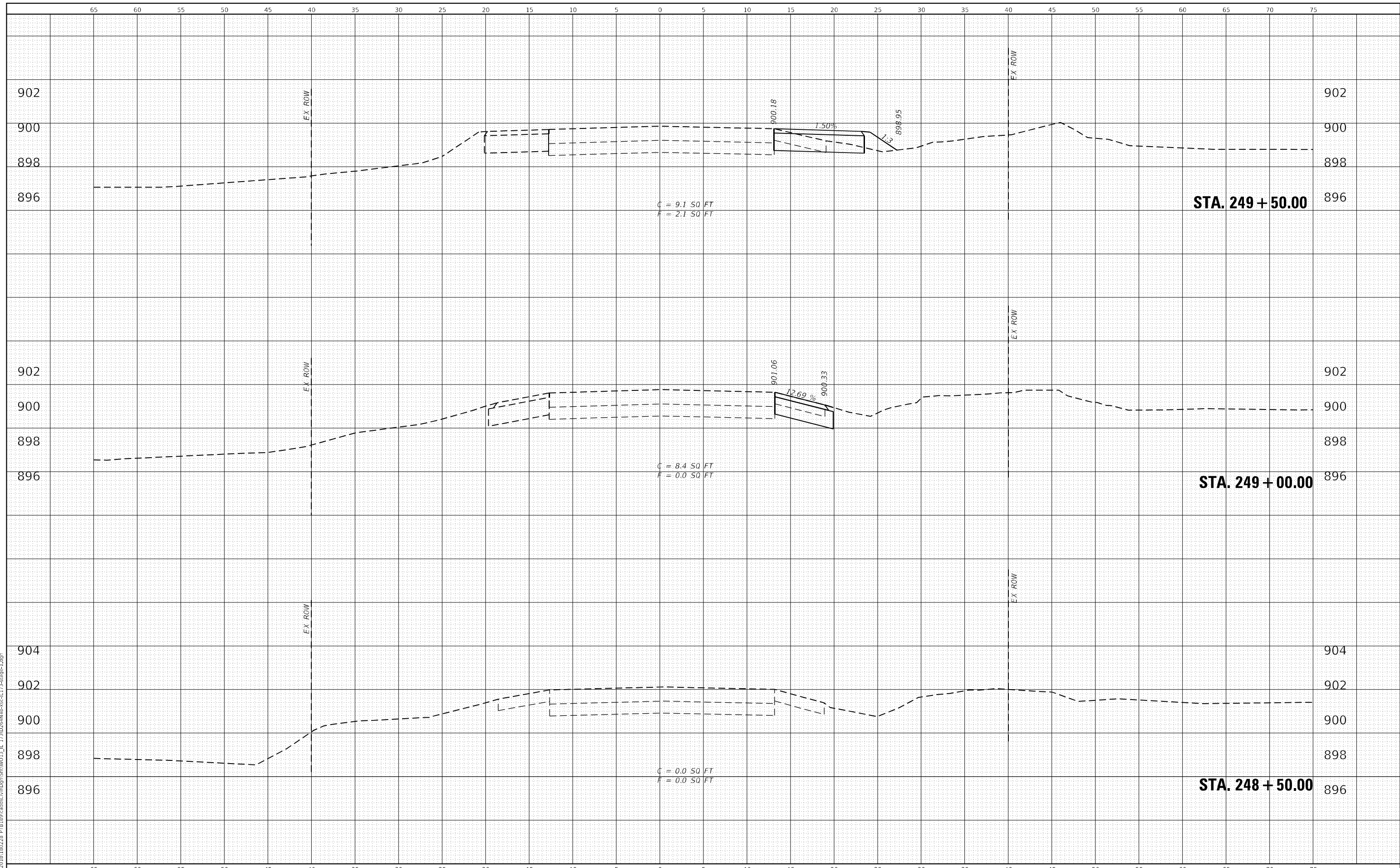
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	59
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\18180228\_PTB189\cad\Civil\Drawings\18180228-189-001.dwg

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
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AREAS CHECKED	
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USER NAME	= kcoropassi
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 10/15/2021
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 10/15/2021
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
CROSS SECTIONS - STAGE I**

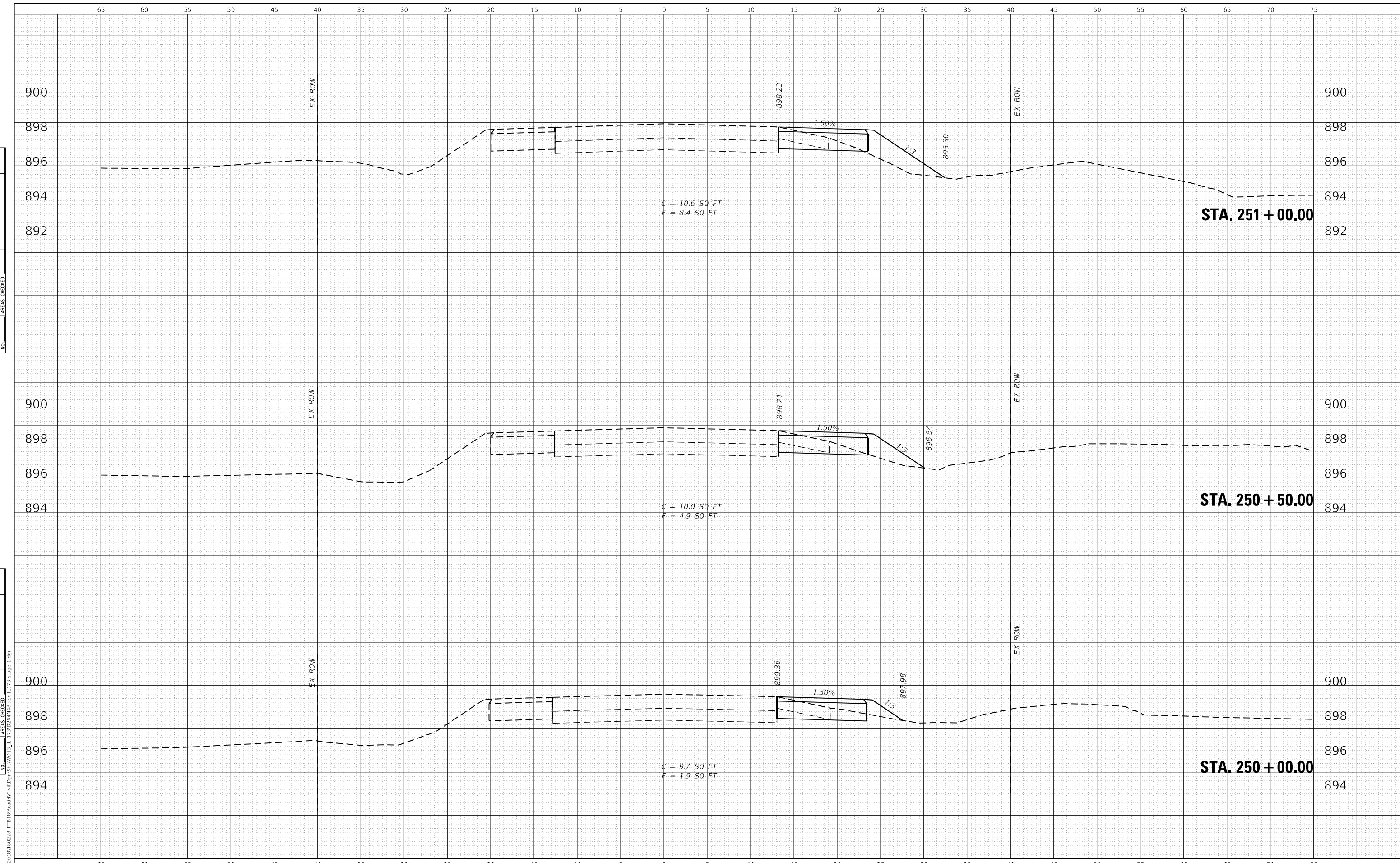
SCALE: H:10 V:5      SHEET X      OF X#      SHEETS      STA. 248+50.00      TO STA. 249+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	60
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



WBK ENGINEERING, LLC  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi
DESIGNED -	KAC
DRAWN -	VLM
CHECKED -	YOO
DATE -	10/15/2021
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

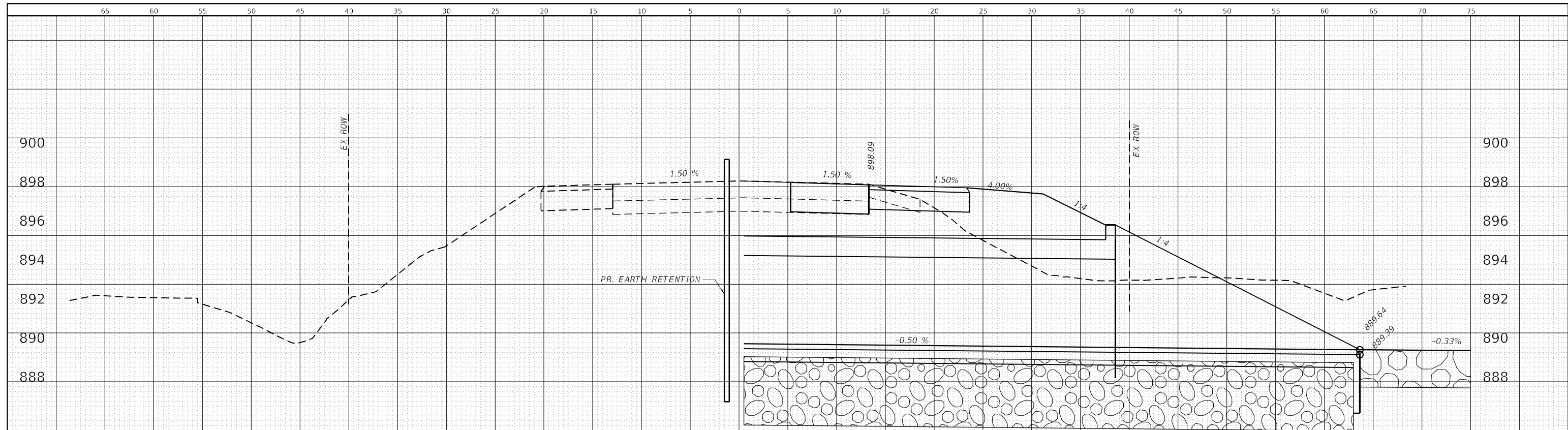
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE I**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 250+00.00 TO STA. 251+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	61
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



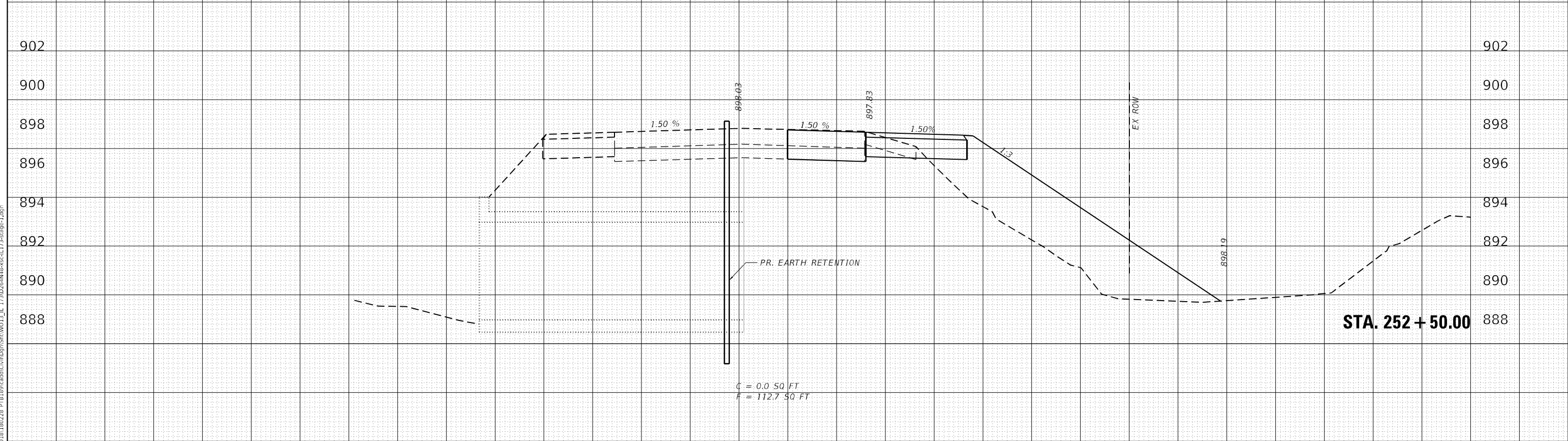
DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



C = 0.0 SQ FT  
F = 46.4 SQ FT

**STA. 252 + 96.00**

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	



C = 0.0 SQ FT  
F = 112.7 SQ FT

**STA. 252 + 50.00**

**WBK ENGINEERING, LLC**  
116 WEST MAIN STREET, SUITE 201  
ST. CHARLES, ILLINOIS 60174  
(630) 443-7755

USER NAME = kcorpassi	DESIGNED - KAC	REVISED -
	DRAWN - VLM	REVISED -
PLOT SCALE = 1:10	CHECKED - YOO	REVISED -
PLOT DATE = 10/13/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
CROSS SECTIONS - STAGE I**

SCALE: H:10 V:5 SHEET X OF X# SHEETS STA. 252+50.00 TO STA. 252+96.00

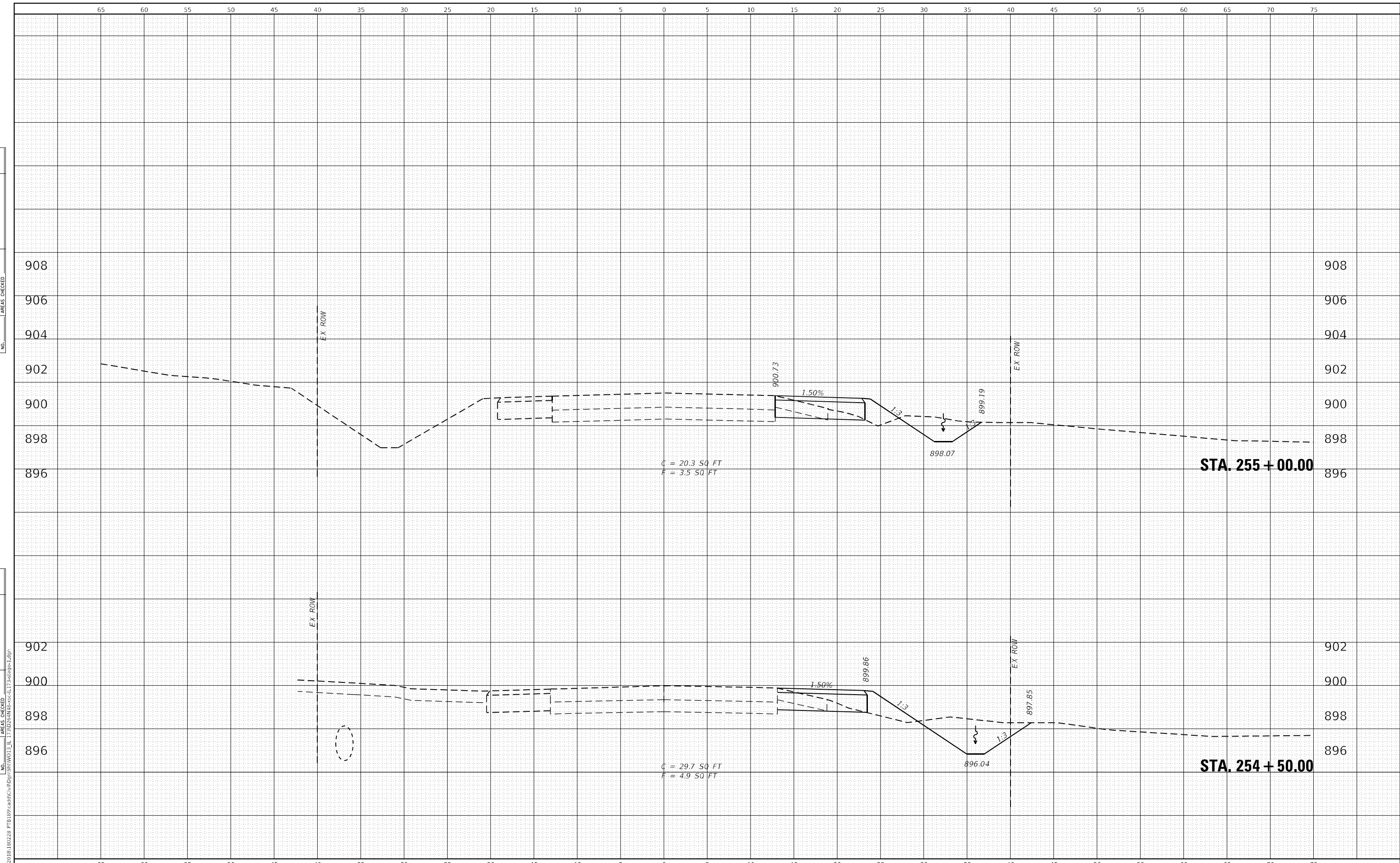
F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 63
CONTRACT NO. 64N48				

ILLINOIS FED. AID PROJECT



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

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



WBK ENGINEERING, LLC  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcoropassi
DESIGNED -	KAC
DRAWN -	VLM
CHECKED -	YOO
DATE -	10/15/2021
REVISOR -	
REVISION -	
REVISOR -	
REVISION -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE I

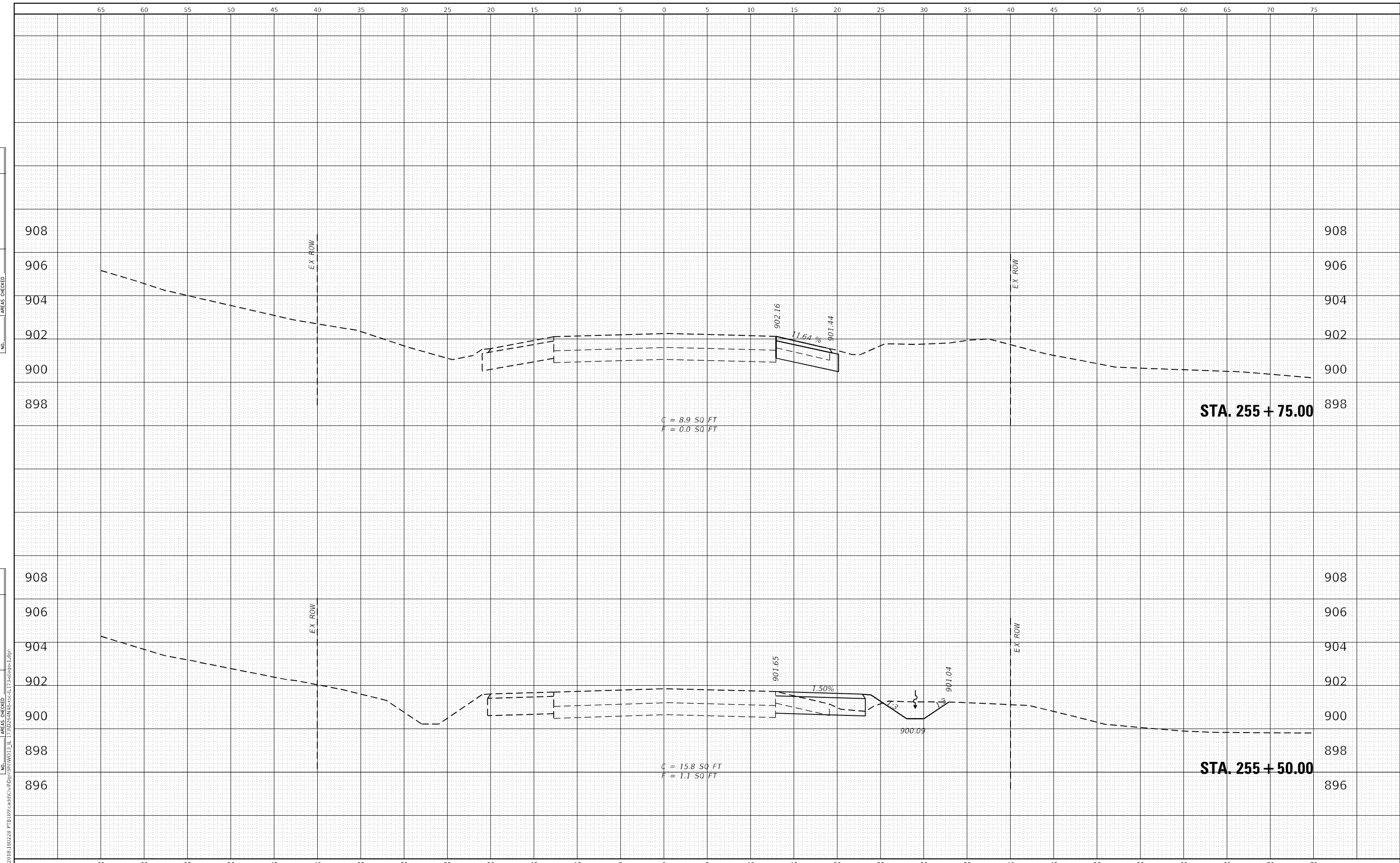
SCALE: H:10 V:5    SHEET X OF X# SHEETS    STA. 254+50.00 TO STA. 255+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	65
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	10/15/2021	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	10/13/2021				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

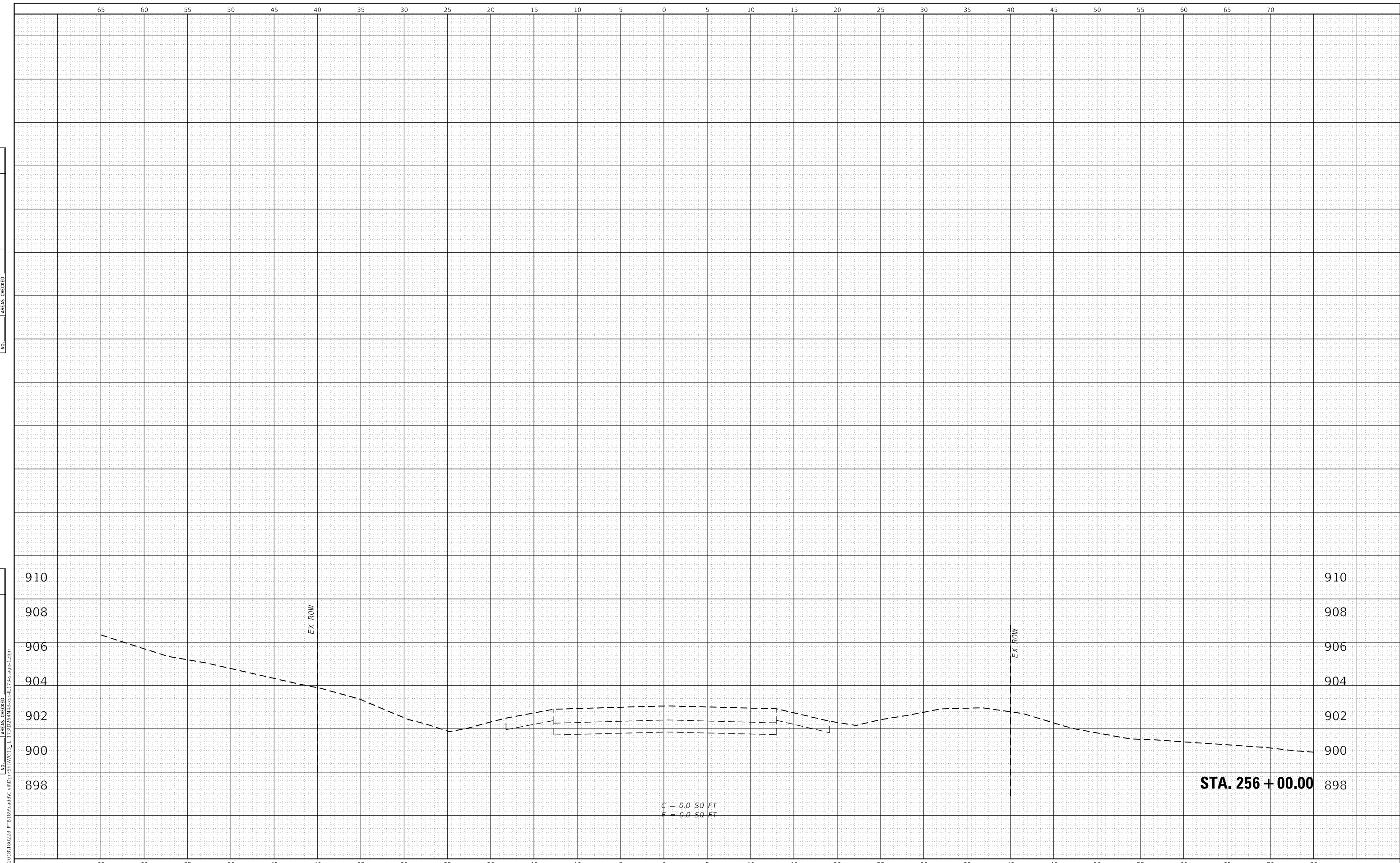
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE I**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 255+50.00 TO STA. 255+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	66
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcorpassi	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 10/13/2021	CHECKED - YOO	REVISED -
	DATE - 10/15/2021	REVISED -

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

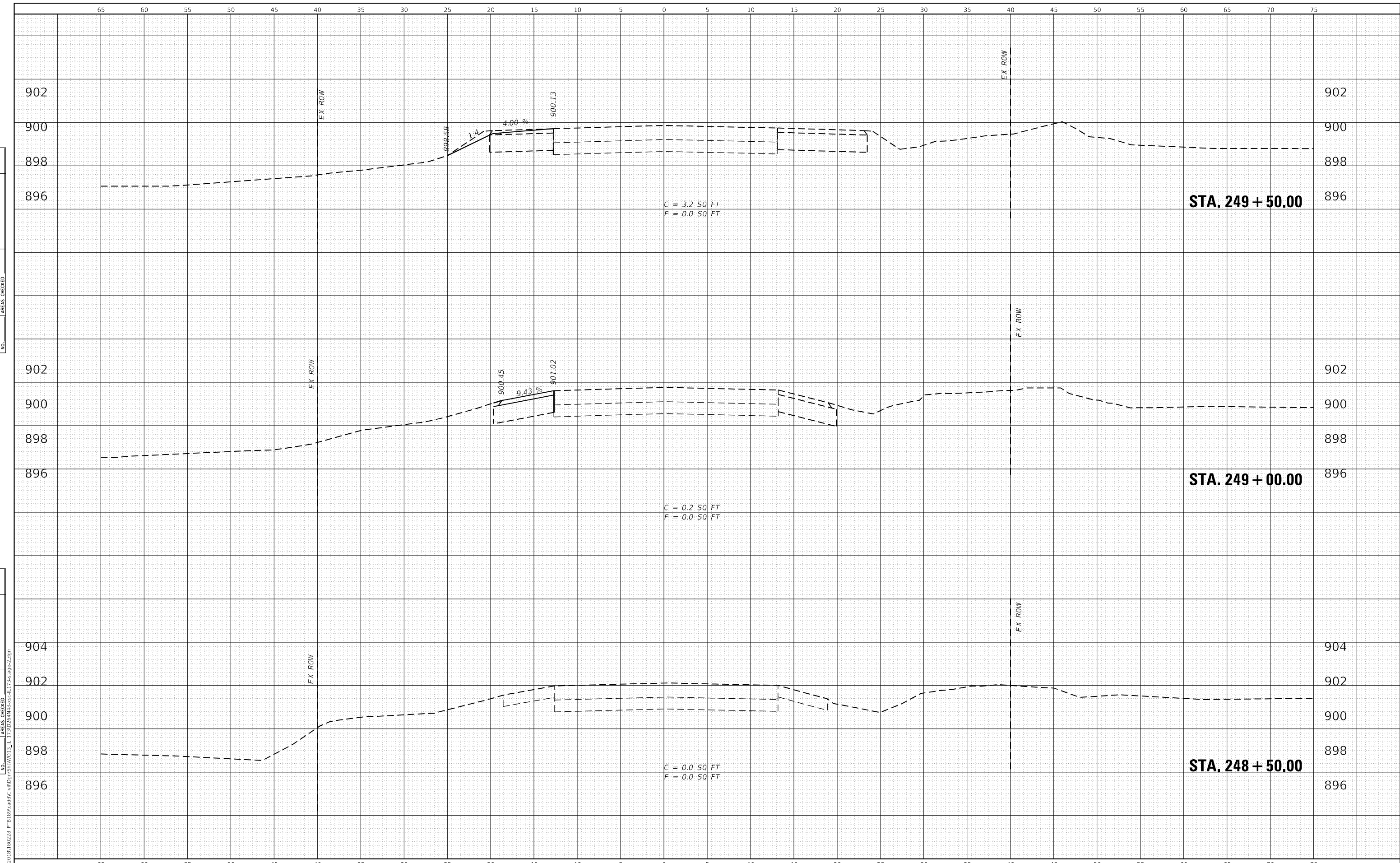
**IL 173 CULVERT REPLACEMENT**  
**CROSS SECTIONS - STAGE I**

SCALE: H:10 V:5      SHEET X      OF X#      SHEETS      STA. 256+00.00      TO STA. 256+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	67
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	



WBK ENGINEERING, LLC  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi
DESIGNED -	KAC
DRAWN -	VLM
CHECKED -	YOO
DATE -	10/15/2021
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 2

SCALE: H:10 V:5    SHEET X OF X# SHEETS    STA. 248+50.00 TO STA. 249+50.00

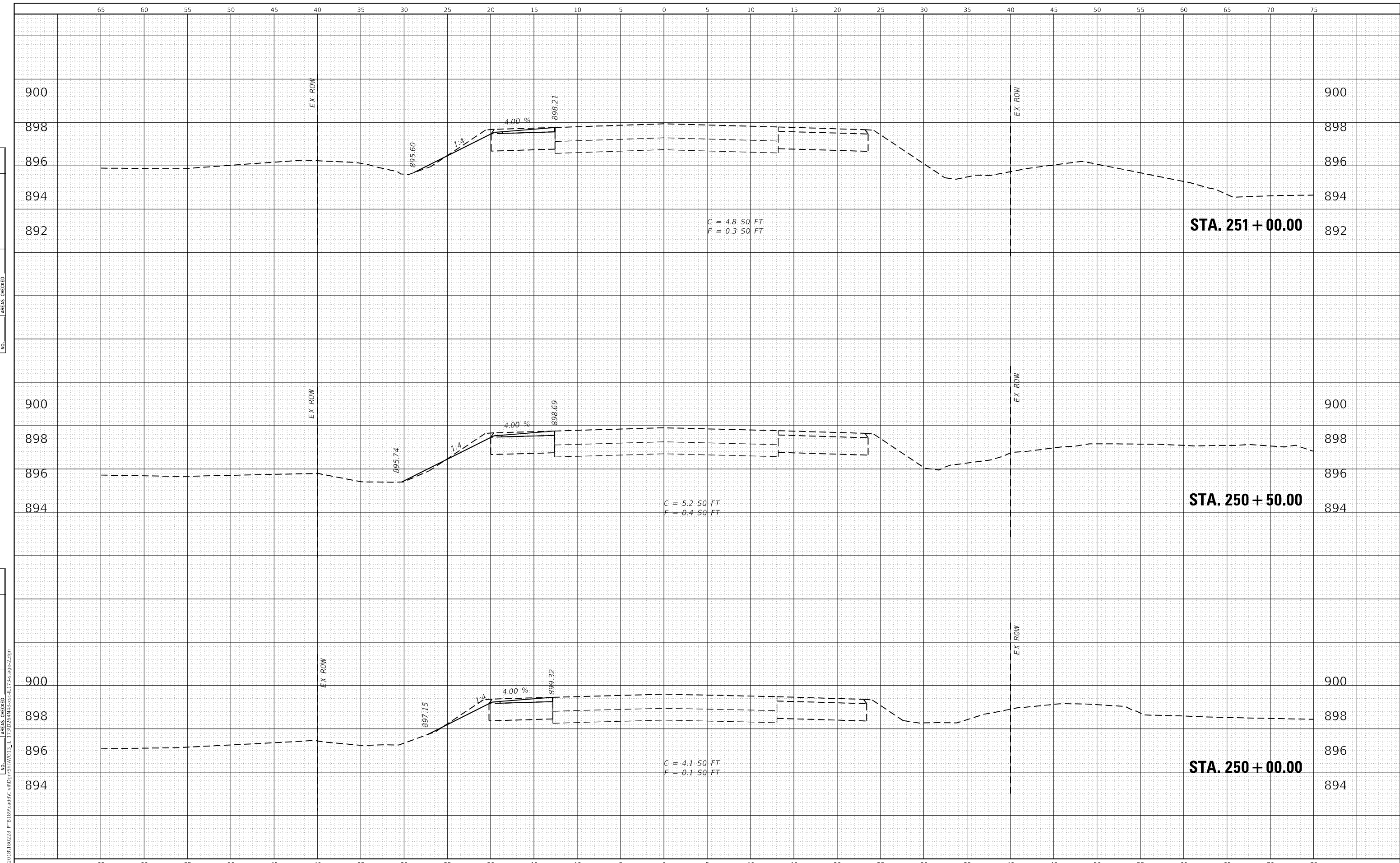
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	68
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\181180228\_PTB189\cad\Culvert\181180228\_PTB189\Cross-Section\181180228\_PTB189\_Cross-Section.dwg



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi
DESIGNED -	KAC
DRAWN -	VLM
CHECKED -	YOO
DATE -	10/15/2021
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 2**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 250+00.00 TO STA. 251+00.00

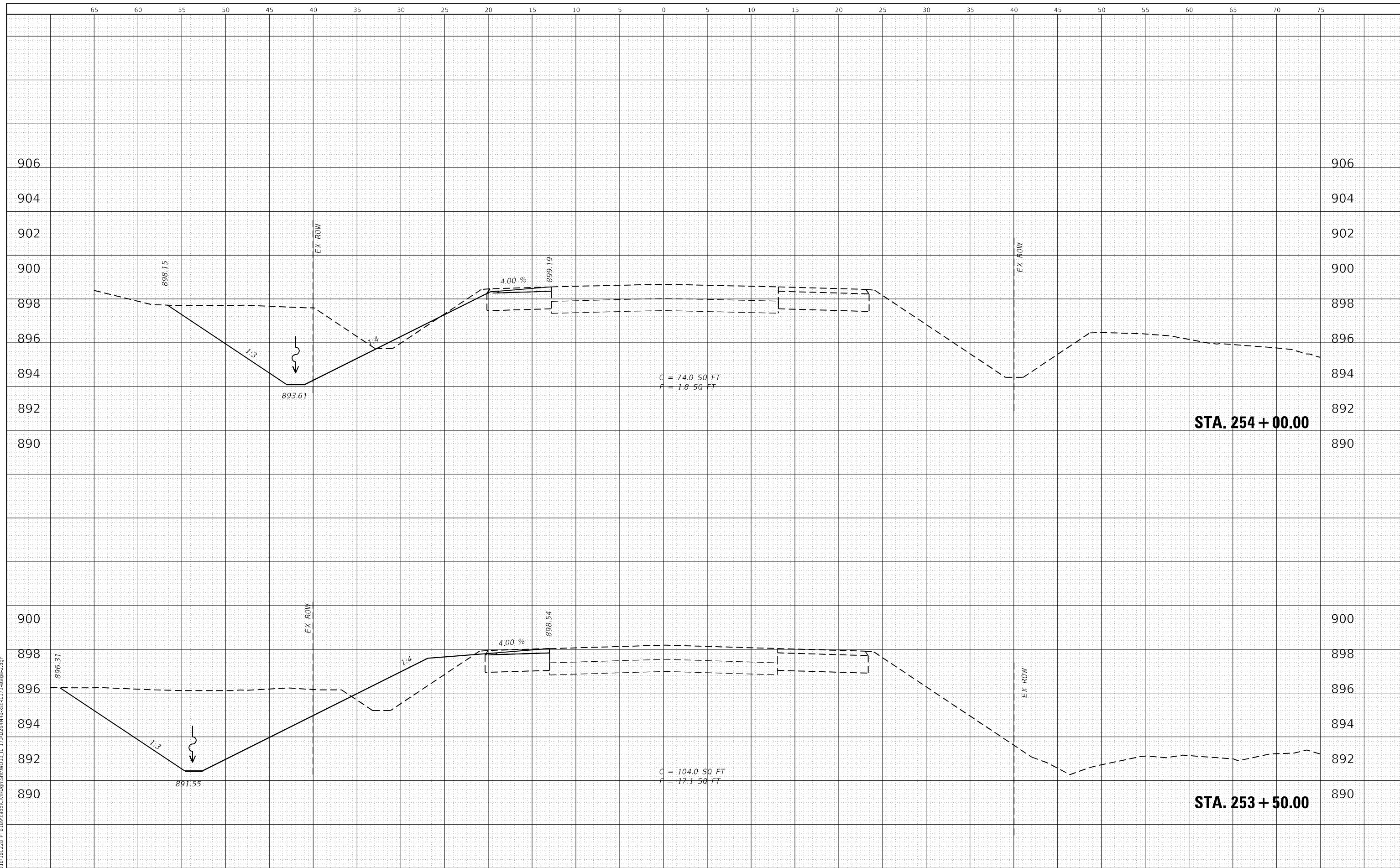
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	69
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				





DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	10/15/2021	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	10/13/2021				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

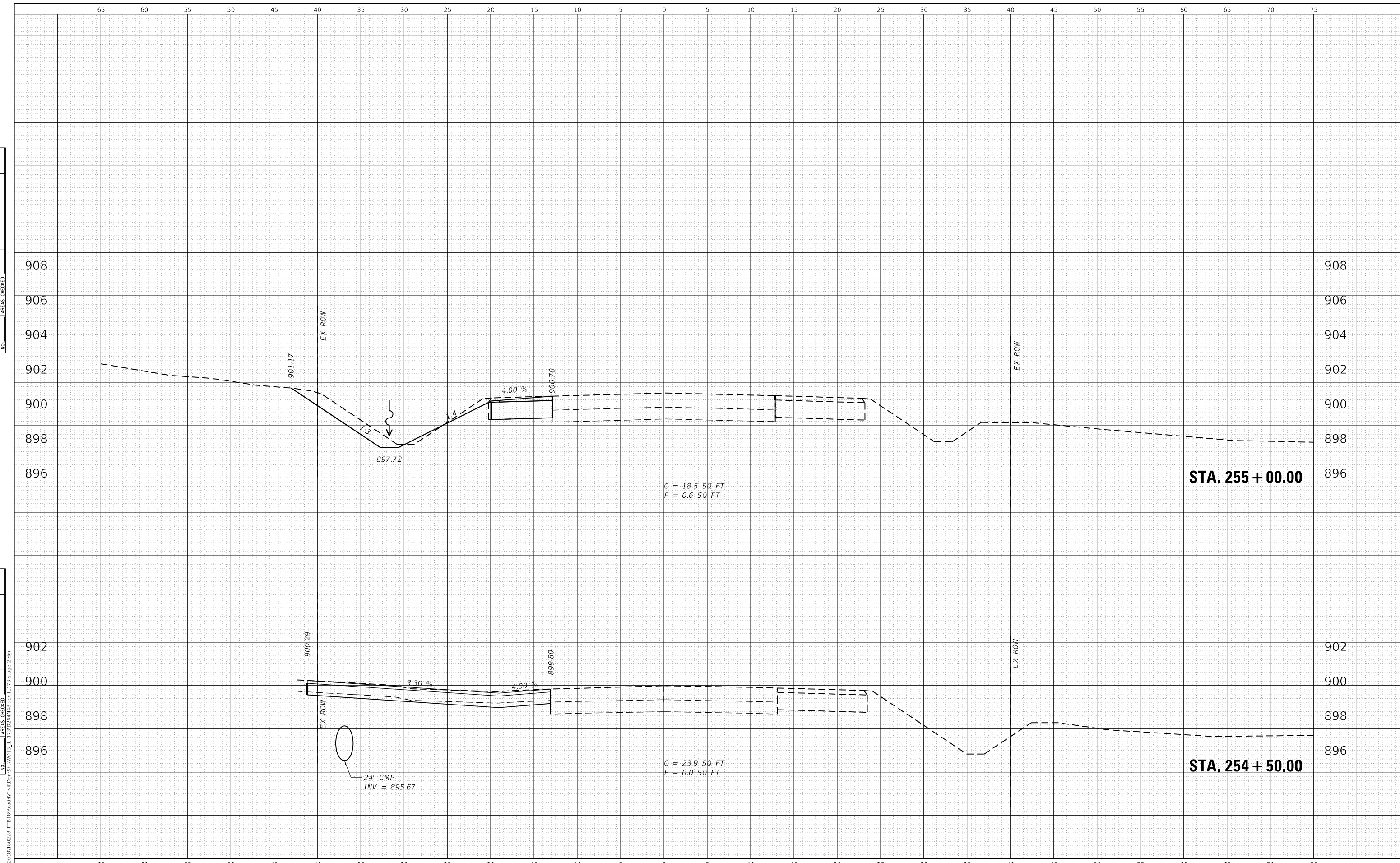
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 2**

SCALE: H:10 V:5    SHEET X OF X# SHEETS    STA. 253+50.00 TO STA. 254+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	72
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi
DESIGNED -	KAC
DRAWN -	VLM
CHECKED -	YOO
DATE -	10/15/2021
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 2**

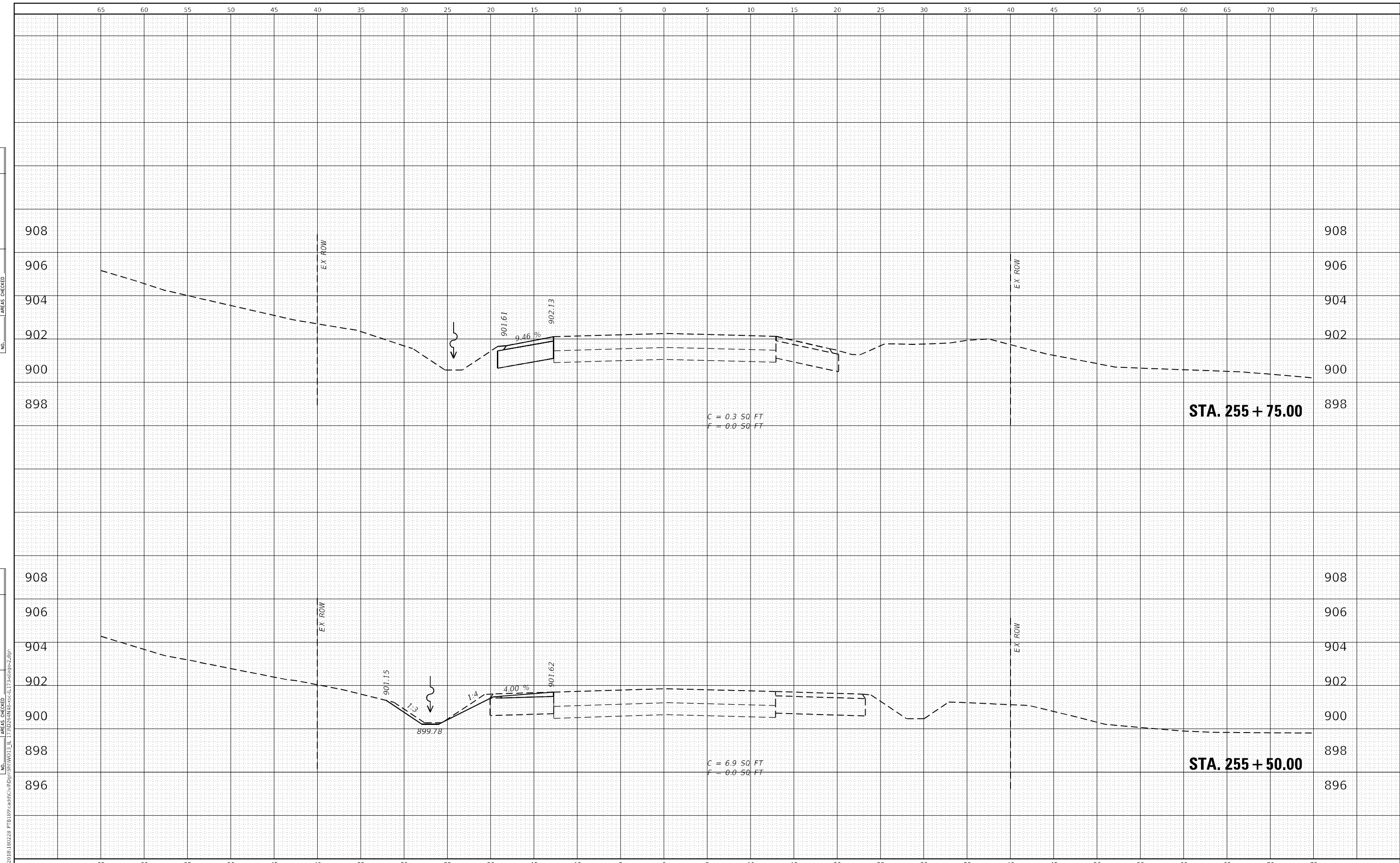
SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 254+50.00 TO STA. 255+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	73
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	10/15/2021	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	10/13/2021				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

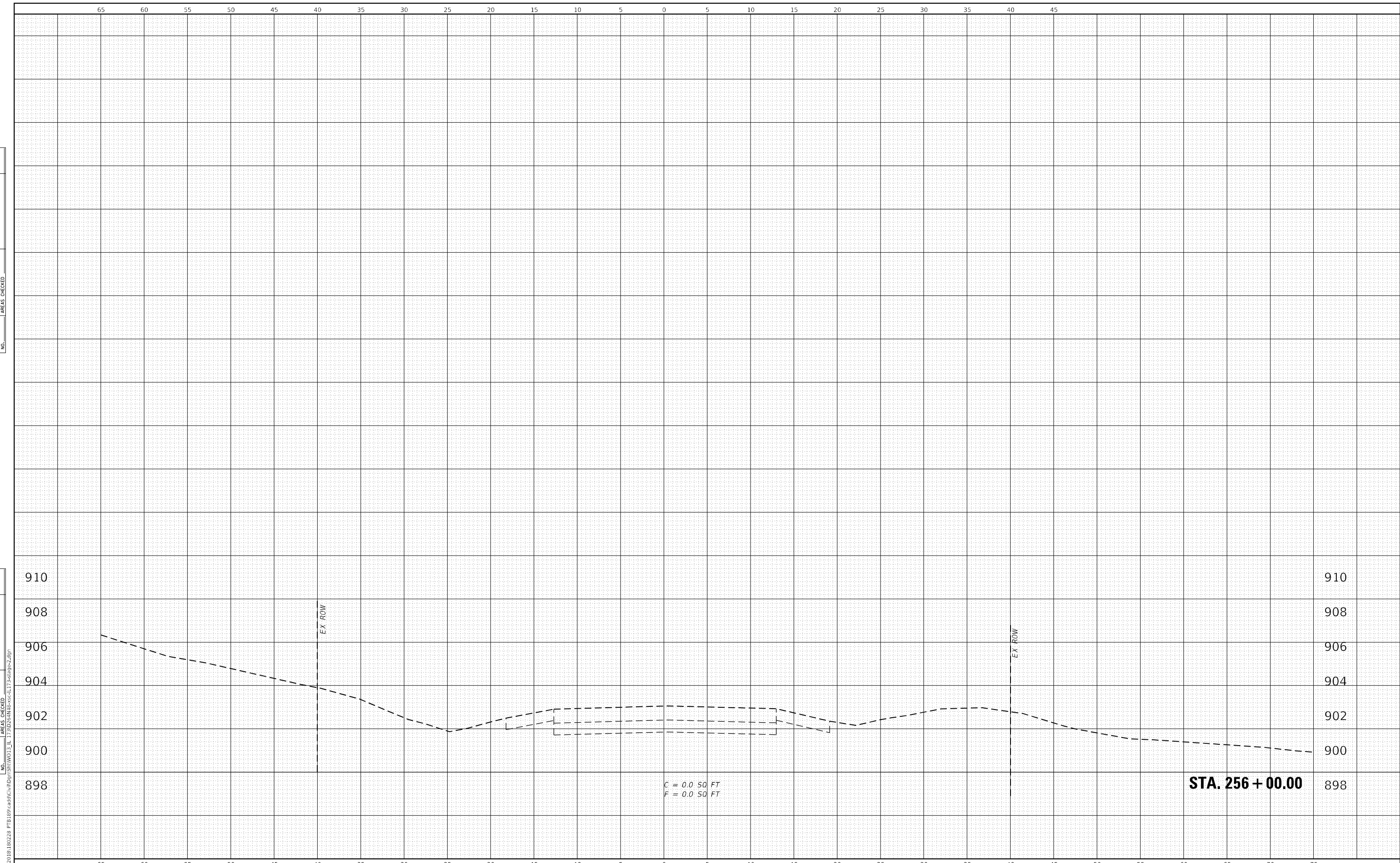
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 2**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 255+50.00 TO STA. 255+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	74
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

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

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



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
PLOT SCALE =	1:10	DRAWN -	VLM	REVISED -	
PLOT DATE =	10/13/2021	CHECKED -	YOO	REVISED -	
		DATE -	10/15/2021	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 2**

SCALE: H:10 V:5      SHEET X      OF X#      SHEETS      STA. 256+00.00      TO STA. 256+50.00

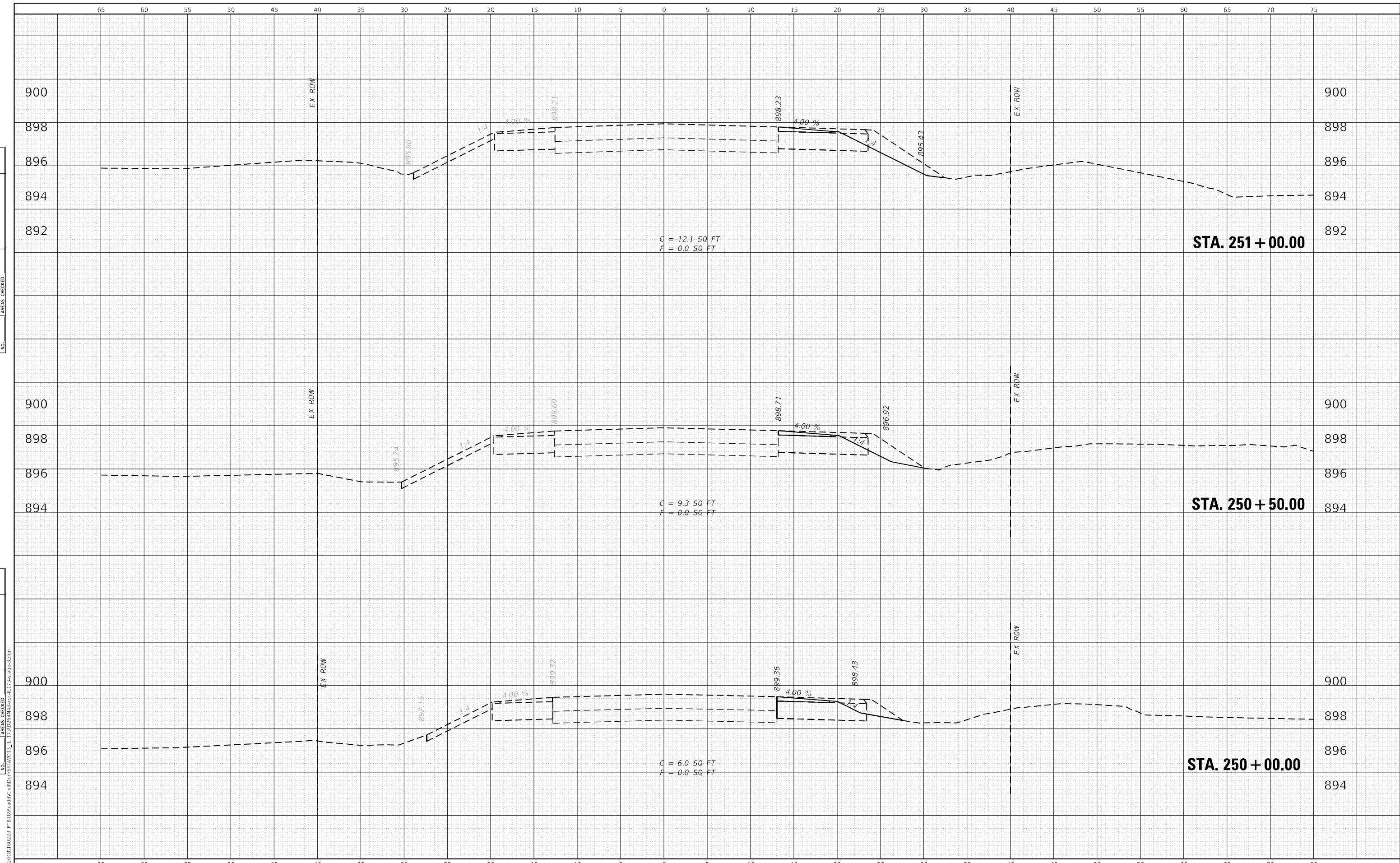
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	75
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				





DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi
DESIGNED -	KAC
DRAWN -	VLM
CHECKED -	YOO
DATE -	10/15/2021
REVISIONS	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 3**

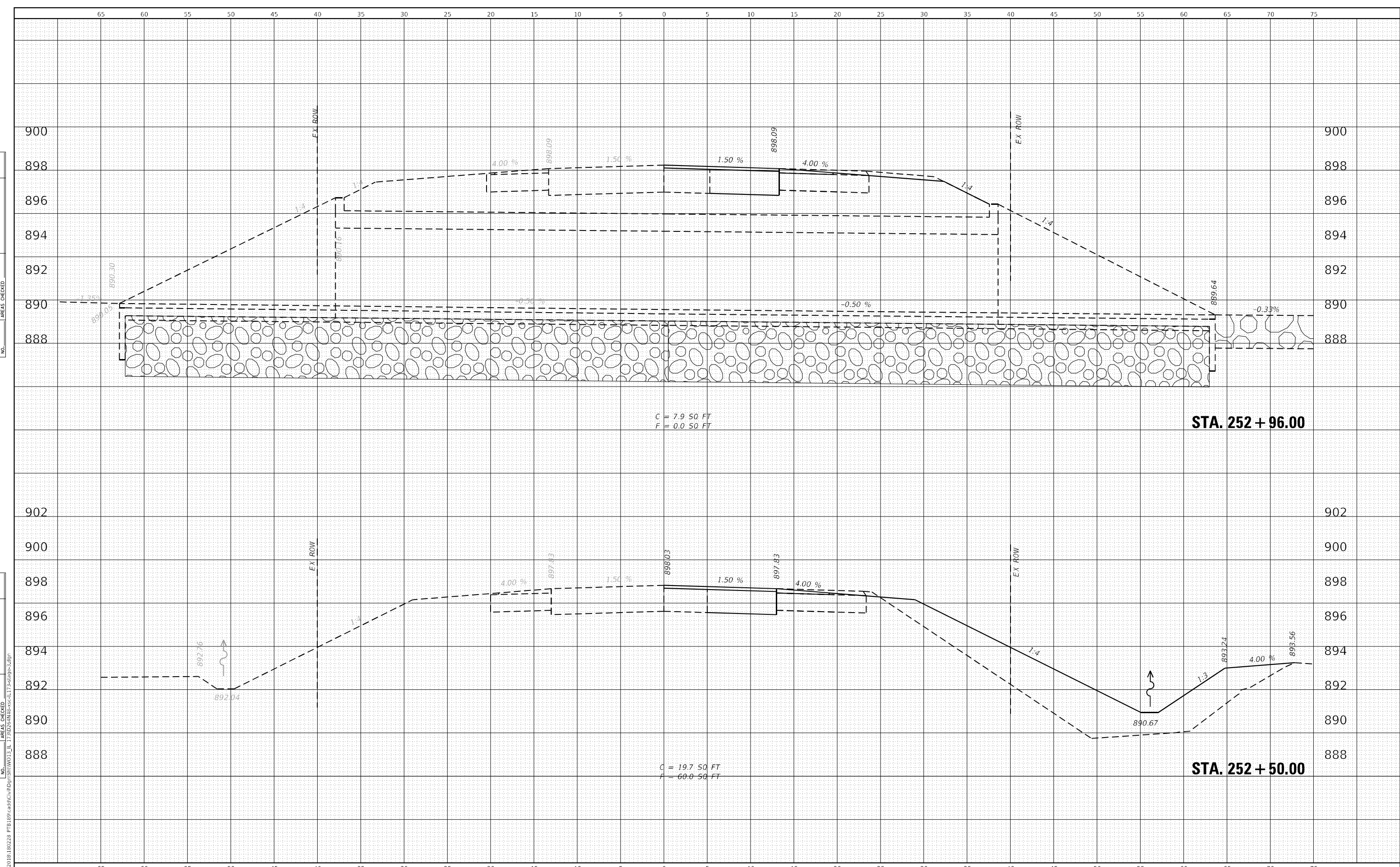
SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 250+00.00 TO STA. 251+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	77
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcorpassi	DESIGNED - KAC	REVISED -
	DRAWN - VLM	REVISED -
PLOT SCALE = 1:10	CHECKED - YOO	REVISED -
PLOT DATE = 10/13/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

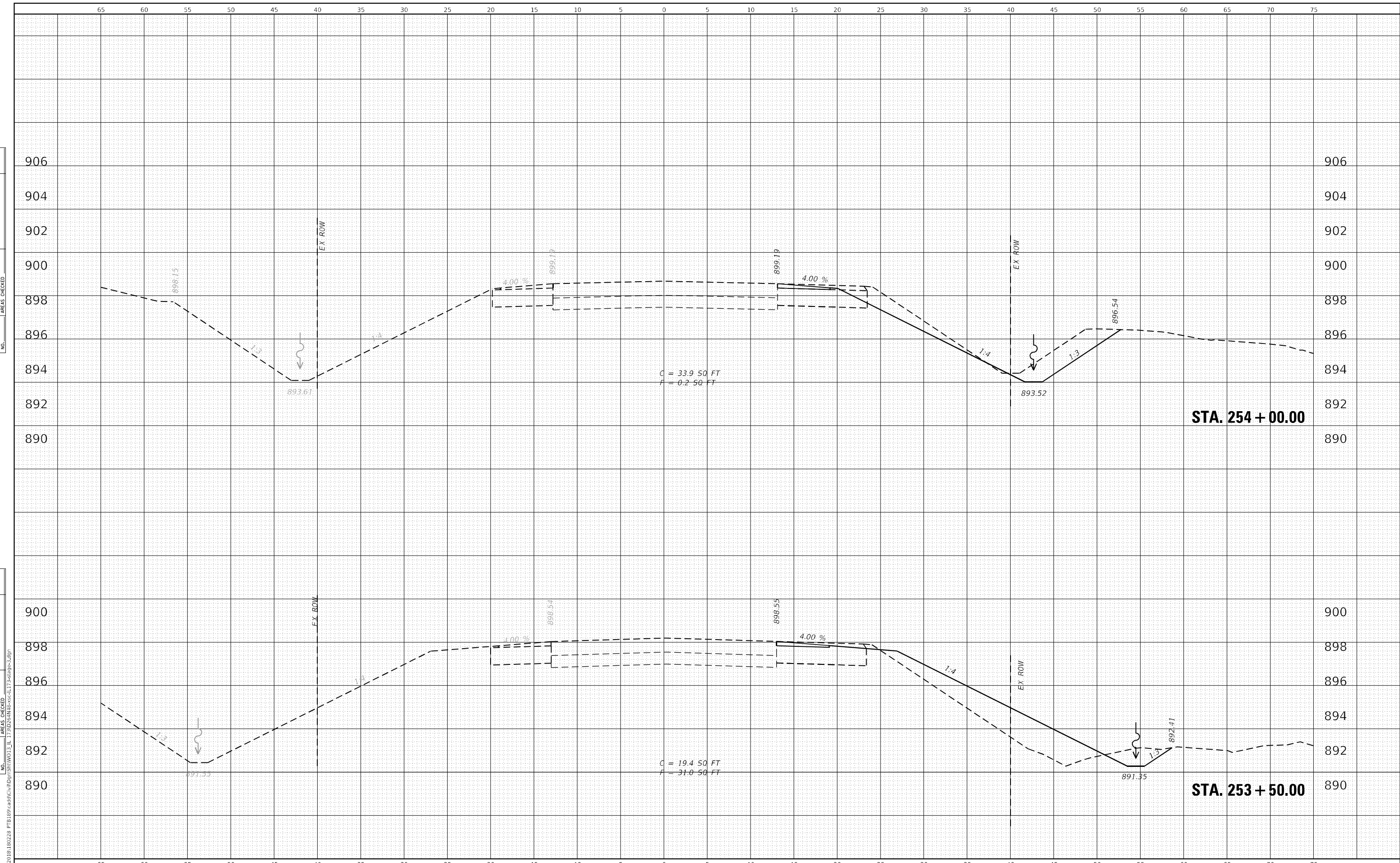
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 3**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 252+50.00 TO STA. 252+96.00

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 79
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcortopassi
DESIGNED -	KAC
DRAWN -	VLM
CHECKED -	YOO
DATE -	10/15/2021
REVISOR -	
REVISION -	
REVISOR -	
REVISION -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 3**

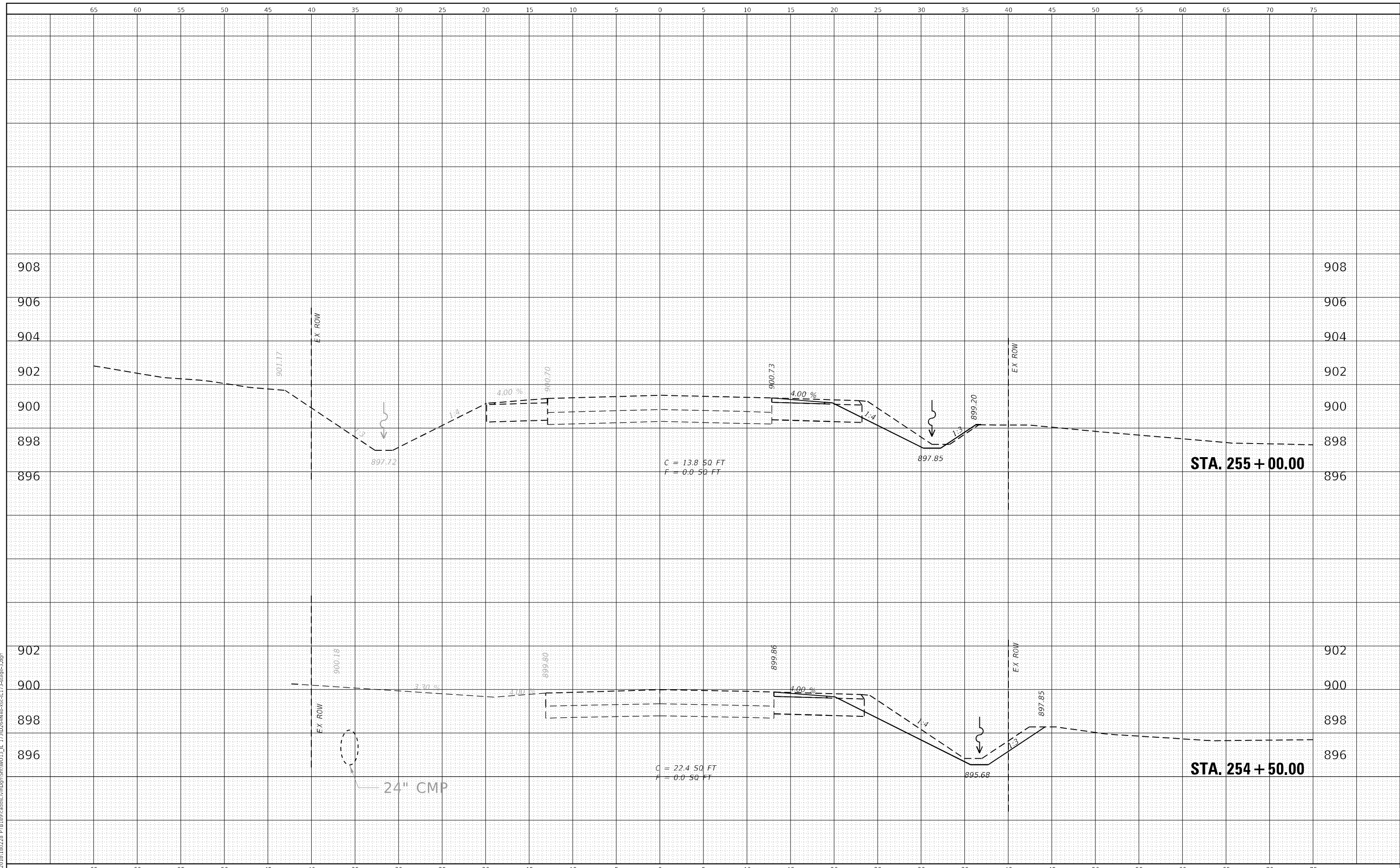
SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 253+50.00 TO STA. 254+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	80
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

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**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME = kcoropassi	DESIGNED - KAC	REVISED -
	DRAWN - VLM	REVISED -
PLOT SCALE = 1:10	CHECKED - YOO	REVISED -
PLOT DATE = 10/13/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 3**

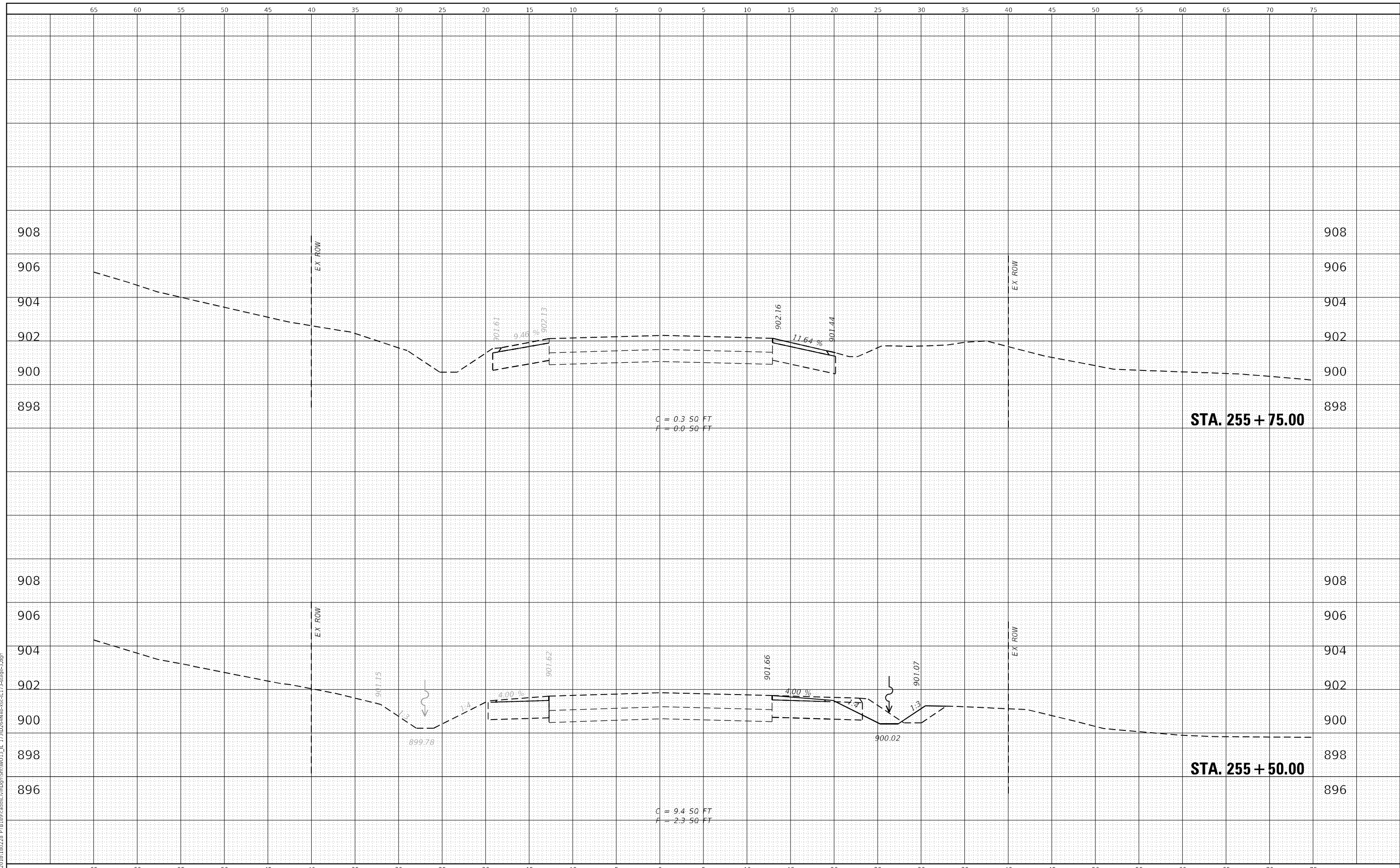
SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 254+50.00 TO STA. 255+00.00

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 81
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcoropassi
DESIGNED -	RAIS
DRAWN -	KMM
CHECKED -	KGO
DATE -	10/15/2021
REVISIONS	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

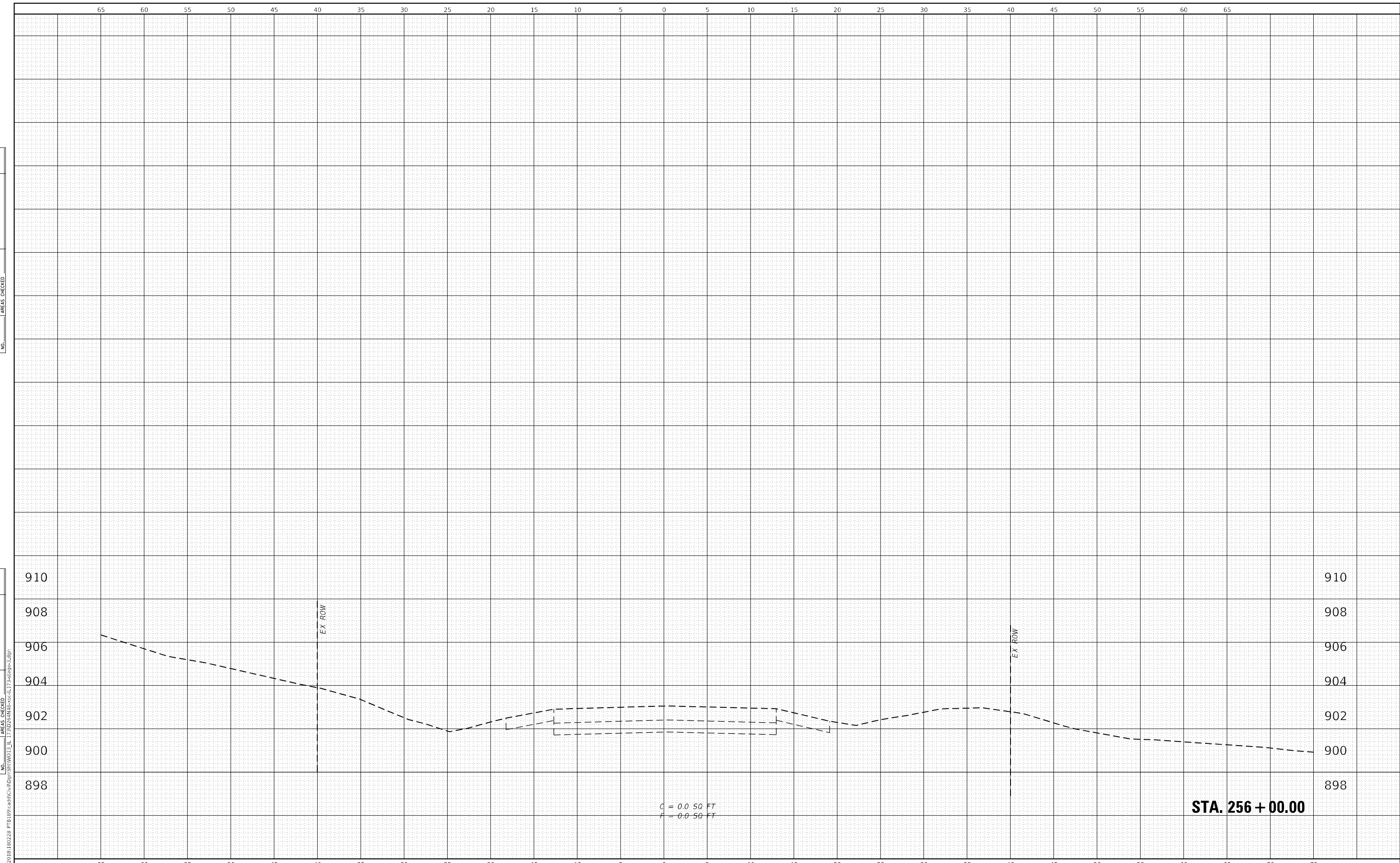
**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 3**

SCALE: H:10 V:5      SHEET X OF X# SHEETS      STA. 255+50.00 TO STA. 255+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	82
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**WBK ENGINEERING, LLC**  
 116 WEST MAIN STREET, SUITE 201  
 ST. CHARLES, ILLINOIS 60174  
 (630) 443-7755

USER NAME =	kcorpassi	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
PLOT SCALE =	1:10	CHECKED -	YOO	REVISED -	
PLOT DATE =	10/13/2021	DATE -	10/15/2021	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - STAGE 3**

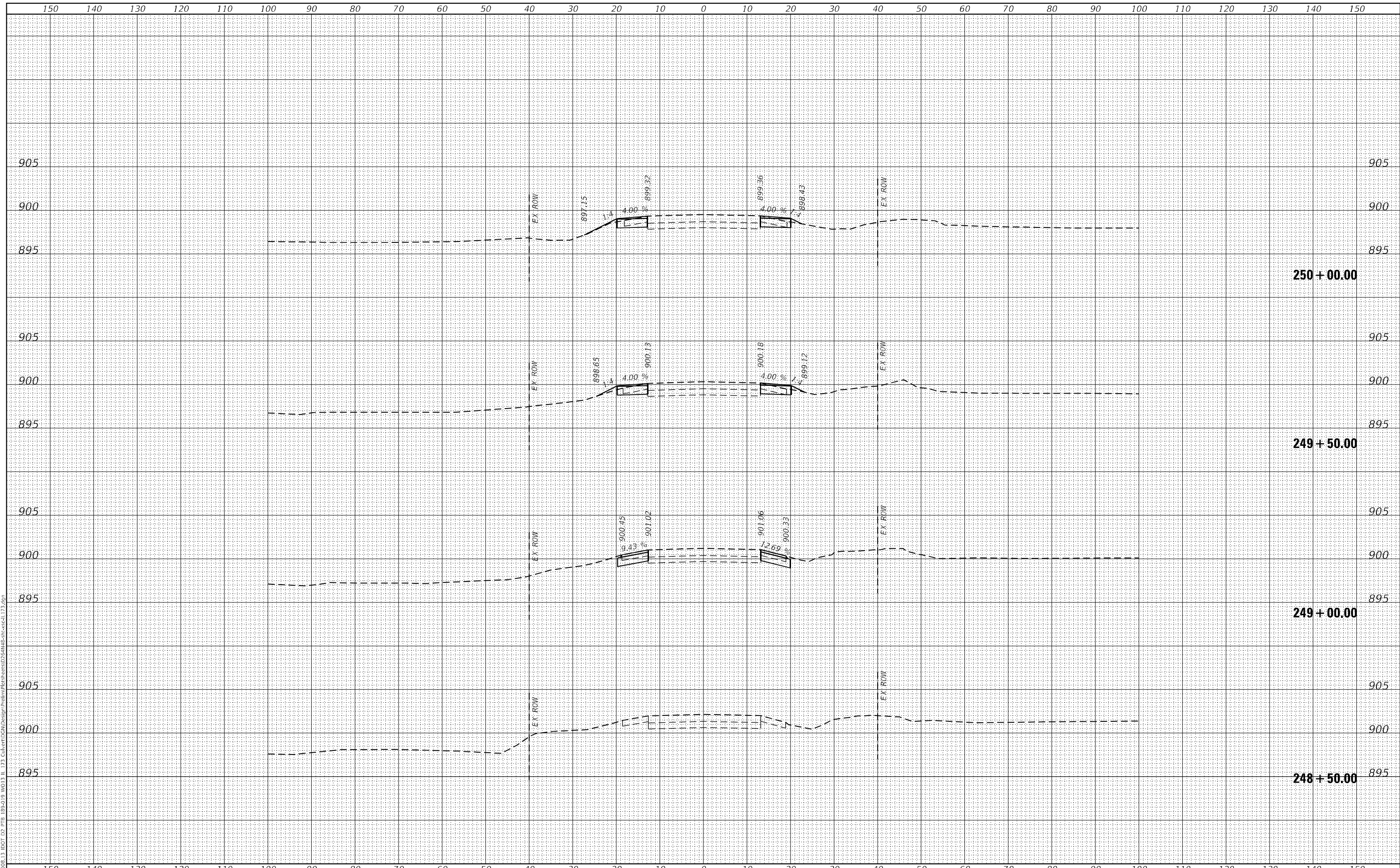
SCALE: H:10 V:5      SHEET X    OF X#    SHEETS    STA. 256+00.00    TO STA. 256+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	83
CONTRACT NO.64N48				
ILLINOIS FED. AID PROJECT				

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

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

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**EFK•Moen**  
 Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 1:20	CHECKED - JH	REVISED -
PLOT DATE = 10/6/2021	DATE - 09/15/2021	REVISED -

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

**IL 173 CULVERT REPLACEMENT**  
**CROSS SECTIONS - IL 173**

SCALE: SHEET OF SHEETS STA. 248+50.00 TO STA. 250+00.00

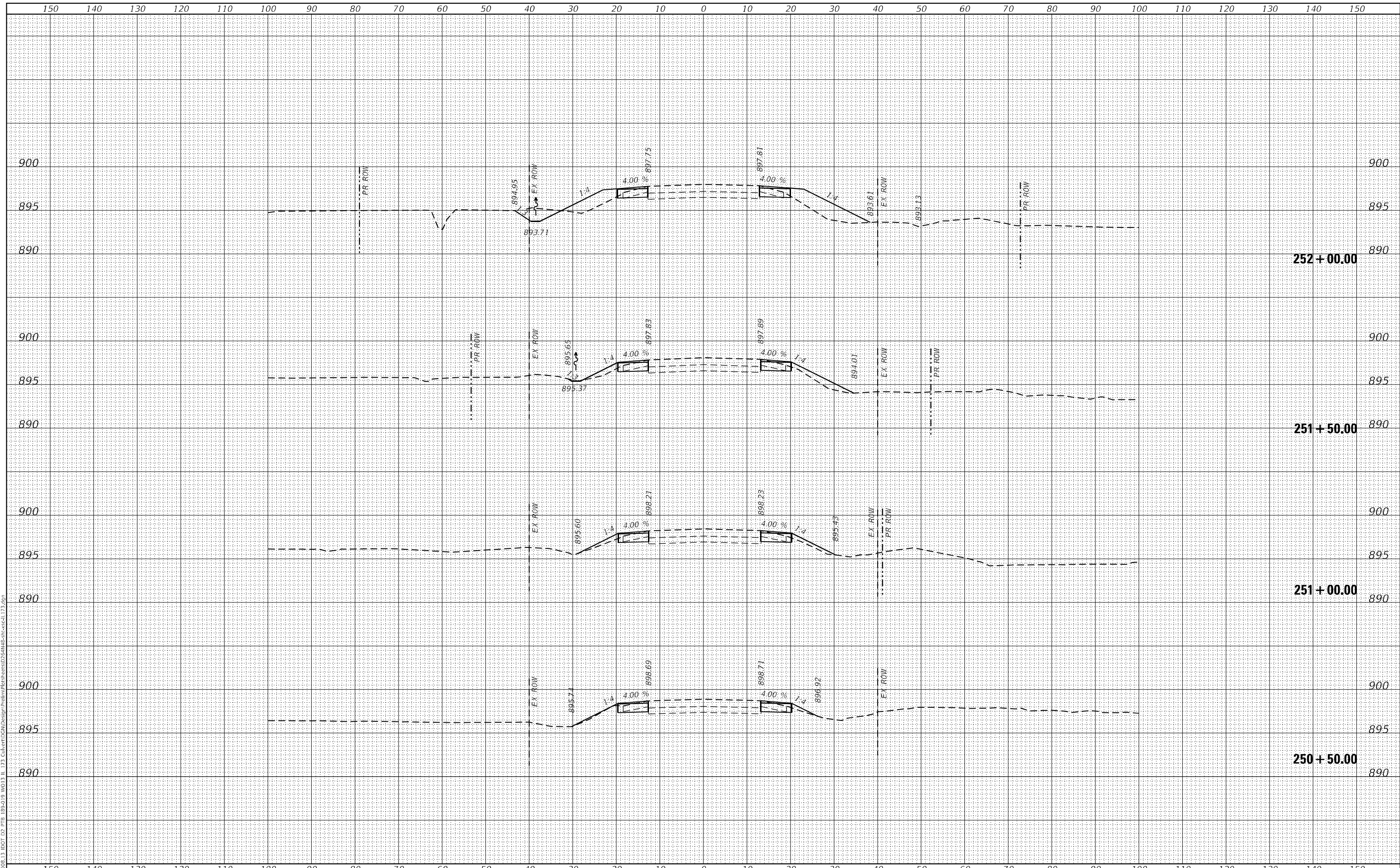
F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 84
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

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**EFK Moen**  
 Civil Engineering Design

USER NAME =	JBerggren
PLOT SCALE =	1:20
PLOT DATE =	10/6/2021

DESIGNED -	RG
DRAWN -	JB
CHECKED -	JH
DATE -	09/15/2021

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - IL 173

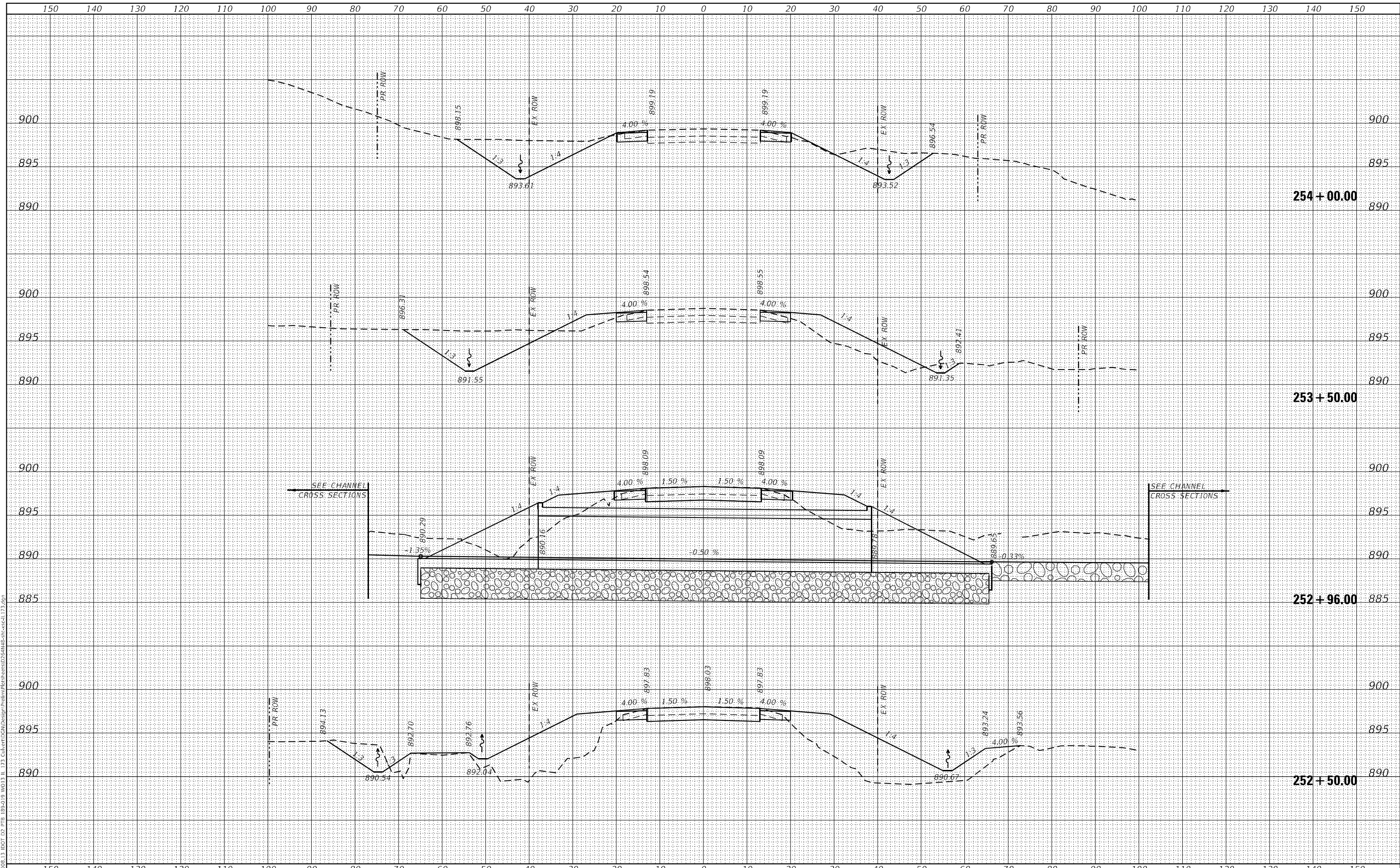
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	85
				CONTRACT NO. 64N48
				ILLINOIS FED. AID PROJECT

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

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

MODEL: Default  
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 PROJECT: 189-018 W013 IL 173 Culvert.dwg



**EFK Moen**  
 Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISIONS
PLOT SCALE = 1:20	DRAWN - JB	REVISIONS
PLOT DATE = 10/6/2021	CHECKED - JH	REVISIONS
	DATE - 09/15/2021	REVISIONS

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

**IL 173 CULVERT REPLACEMENT**  
**CROSS SECTIONS - IL 173**

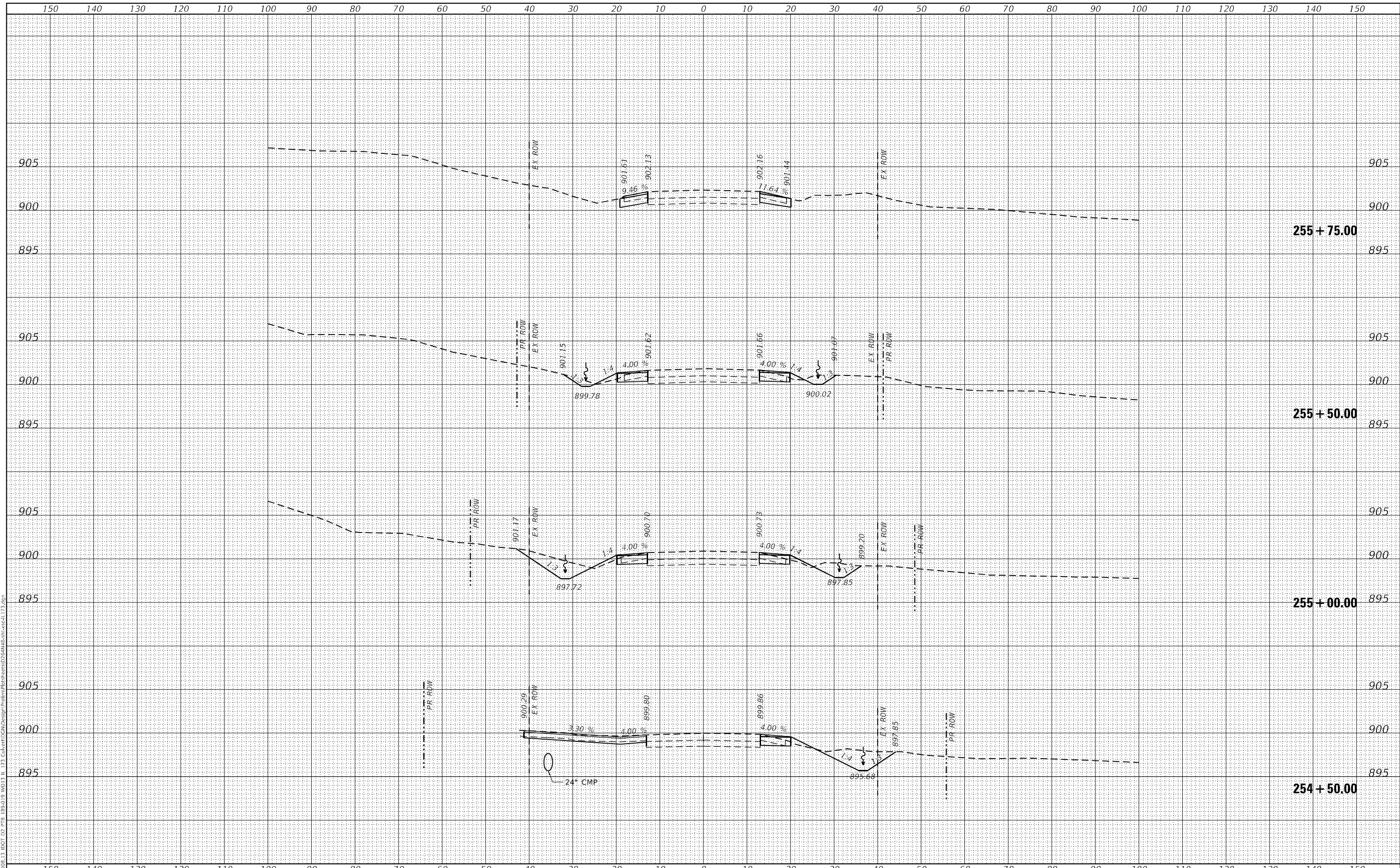
SCALE: SHEET OF SHEETS STA. 252+50.00 TO STA. 254+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	86
				CONTRACT NO. 64N48
				ILLINOIS FED. AID PROJECT

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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 PROJECT: 189-018 W013 IL 173 Culvert\GIS\p18\p18.ctb



**EFK Moen**  
 Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISD -
	DRAWN - JB	REVISD -
PLOT SCALE = 1:20	CHECKED - JH	REVISD -
PLOT DATE = 10/6/2021	DATE - 09/15/2021	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - IL 173**

SCALE: SHEET OF SHEETS STA. 254+50.00 TO STA. 255+75.00

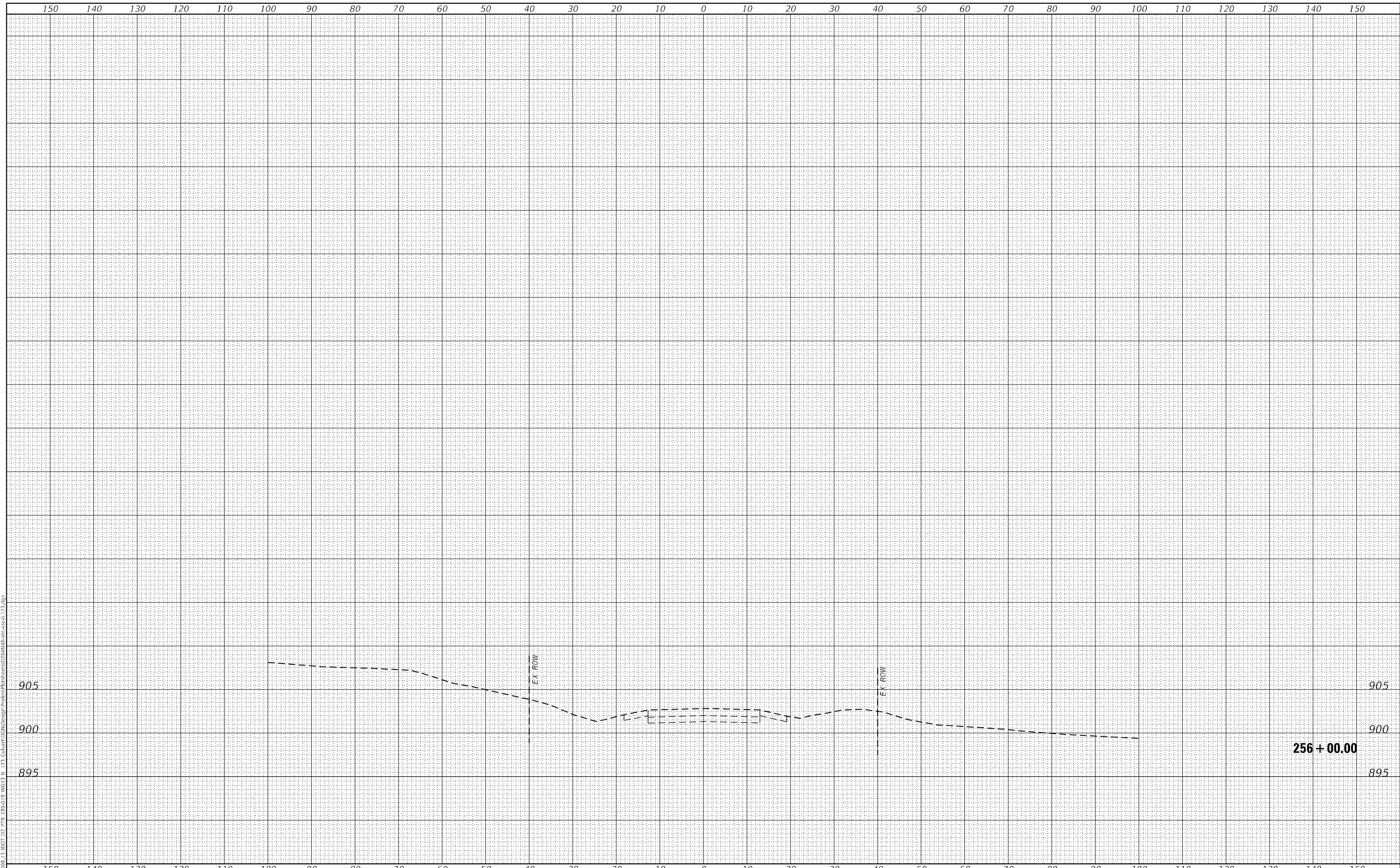
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	87
CONTRACT NO. 64N48				

ILLINOIS FED. AID PROJECT

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

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

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FILE NAME: Z:\0608\_13 DOT D2 PB 189-018 W013 IL 173 CulvertCAD.dwg  
PLOT DATE: 10/6/2021



**EFK Moen**  
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
PLOT SCALE = 1:20	DRAWN - JB	REVISED -
PLOT DATE = 10/6/2021	CHECKED - JH	REVISED -
	DATE - 09/15/2021	REVISED -

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

**IL 173 CULVERT REPLACEMENT**  
**CROSS SECTIONS - IL 173**

SCALE: SHEET OF SHEETS STA. 256+00.00 TO STA. 256+00.00

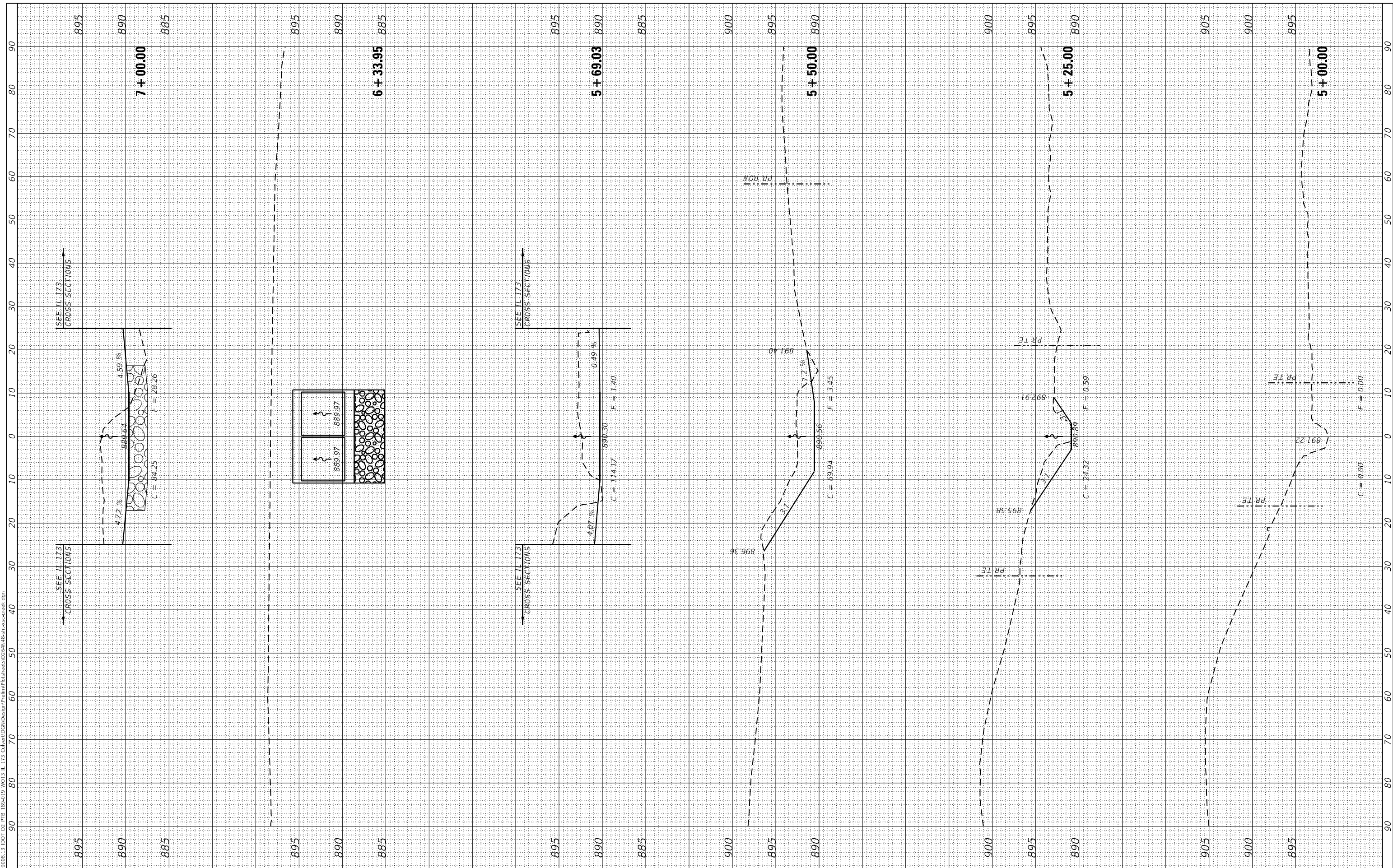
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130CR	BOONE	90	88
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Definit  
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**EFK•Moen**  
 Civil Engineering Design

USER NAME = jbergren	DESIGNED - RG	REVISIONS
PLOT SCALE = 1:20	DRAWN - JB	REVISIONS
PLOT DATE = 10/6/2021	CHECKED - JH	REVISIONS
	DATE - 09/15/2021	REVISIONS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - CHANNEL

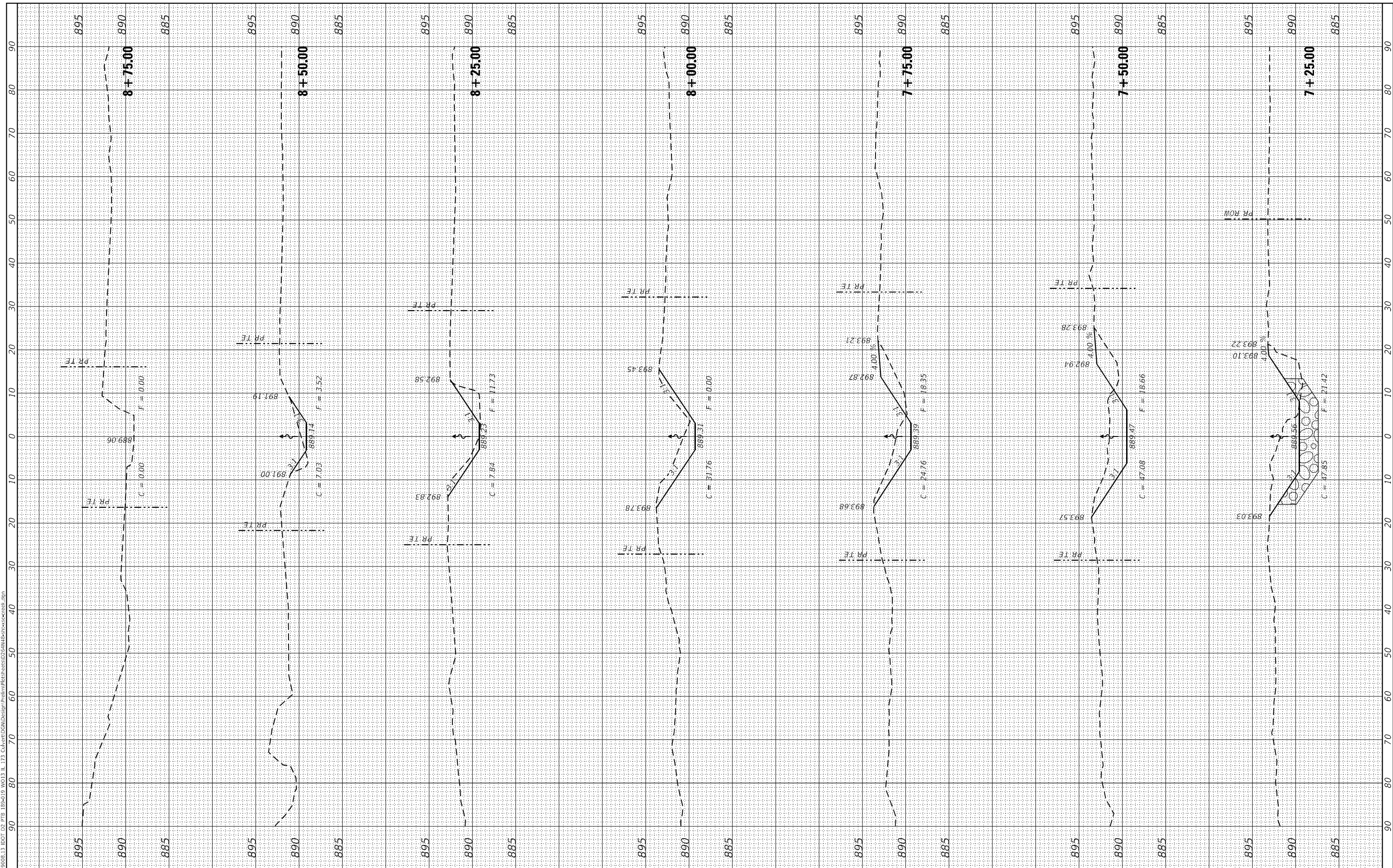
SCALE: SHEET OF SHEETS STA. 5+00.00 TO STA. 7+00.00

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 89
CONTRACT NO. 64N48				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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**EFK Moen**  
 Civil Engineering Design

USER NAME = jBerggren	DESIGNED - RG	REVISED -
PLOT SCALE = 1:20	DRAWN - JB	REVISED -
PLOT DATE = 10/6/2021	CHECKED - JH	REVISED -
	DATE - 09/15/2021	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 173 CULVERT REPLACEMENT  
 CROSS SECTIONS - CHANNEL

SCALE: SHEET OF SHEETS STA. 7+25.00 TO STA. 8+75.00

F.A.P. RTE. 303	SECTION 130CR	COUNTY BOONE	TOTAL SHEETS 90	SHEET NO. 90
CONTRACT NO. 64N48				

ILLINOIS FED. AID PROJECT