

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	1
ILLINOIS		CONTRACT NO. 62J41		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED HIGHWAY PLANS

FAP ROUTE 352 (IL RTE 137) OVER BULL CREEK
SECTION 2019-074-SW&I
PROJECT: NHPP-KCE9(709)
CULVERT REMOVAL AND REPLACEMENT
LAKE COUNTY

D-91-191-19

TRAFFIC DATA

2019 ADT = 18,800 (IL RTE 137)

POSTED SPEED

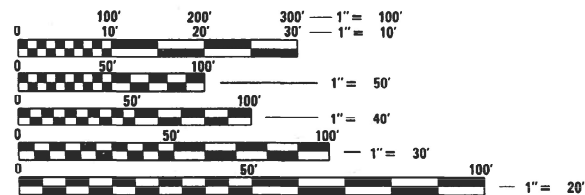
POSTED SPEED: 40 MPH (IL RTE 137)

DESIGN SPEED: 40 MPH (IL RTE 137)

DESIGN DESIGNATION

PRINCIPAL ARTERIAL (IL RTE 137)

THIS PROJECT IS LOCATED IN
THE VILLAGE OF BEACH PARK



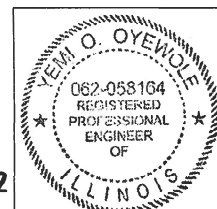
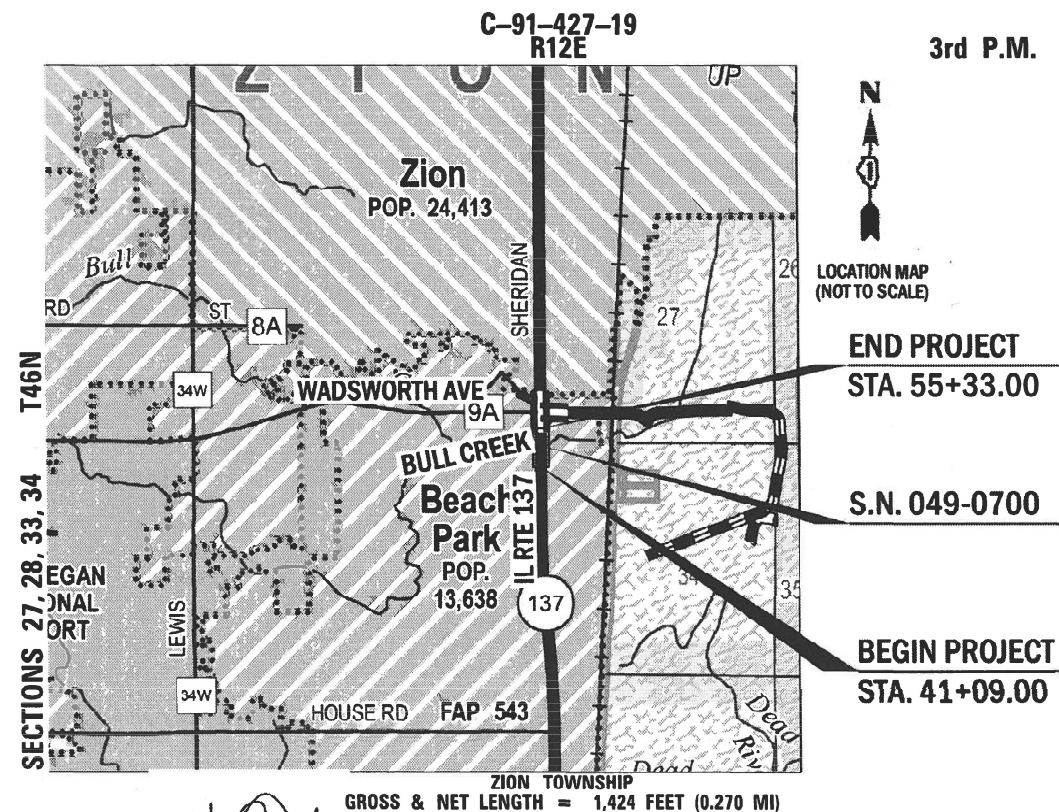
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

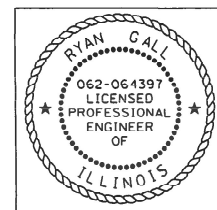
PROJECT MANAGER: SULEYMAN TULGAR, PE, (847) 705-4212
PROJECT ENGINEER: ANA ABREU, PE, (847) 705-4482

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

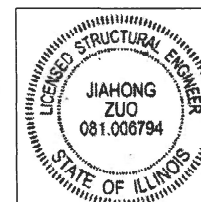
CONTRACT NO. 62J41



YEMI O. OYEWOLE
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-058164
EXPIRATION DATE 11-30-2023
COVER, GEN. NOTES, TYPICAL SECTIONS, SOQ, ATB,
REMOVAL, PLAN AND PROFILE, DRAINAGE REMOVAL,
PROPOSED DRAINAGE, GRADING, EROSION CONTROL &
LANDSCAPING, PAVEMENT MARKINGS,
AND CIVIL DETAILS SHEETS



RYAN GALL
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-064397
EXPIRATION DATE 11-30-2023
DETOUR PLANS, SPECIALTY SIGN PLAN,
TS INTERCONNECT PLANS, ADA RAMP PLANS,
AND CROSS SECTIONS



JIAHONG ZUO
ILLINOIS REG. STRUCTURAL ENGINEER NO. 081-006794
EXPIRATION DATE 11-30-2024
STRUCTURAL PLAN SHEETS



NARENDRA C. THAKKAR
ILLINOIS REG. STRUCTURAL ENGINEER NO. 062-035883
EXPIRATION DATE 11-30-2023
ROADWAY LIGHTING MODIFICATION PLANS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED JANUARY 31 20 23

Jan Rios / PAB REGIONAL ENGINEER

May 12, 2023 SEA. EKS

ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 Steph M. Smith

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

FILE NAME = Z:\2019\190221_IDOT\PTB\193\kac\c\WIL\Dgn\SHU\ID.62\414-GENNOTE_01.dgn

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IDOT DISTRICT 1 STANDARDS

STANDARD NO.	DESCRIPTION
BD01	DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥15'
BD07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY, 1 SPL,
BD36	FIRE HYDRANT TO BE MOVED
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TC13	DISTRICT 1 TYPICAL PAVEMENT MARKINGS
TC21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC26	DRIVEWAY ENTRANCE SIGNING

PHASE II COMMITMENTS FROM PHASE I

- LAKE COUNTY DOT (LCDOT) FIBER OPTIC CABLE WAS INSTALLED ON THE WEST SIDE OF IL 137 AFTER TOPOGRAPHIC SURVEY FOR THIS PROJECT WAS COMPLETED, THE LOCATIONS WILL NEED TO BE SURVEYED DURING PHASE II. THE CONNECTION BETWEEN WADSWORTH ROAD AND BEACH ROAD MUST BE MAINTAINED DURING CONSTRUCTION. A TEMPORARY CONNECTION CAN BE MADE VIA WIRELESS TECHNOLOGY AT WADSWORTH ROAD AND BEACH ROAD USING AERIAL FIBER OPTIC CABLE ON TEMPORARY WOOD POLES.
- AT A COORDINATION MEETING WITH THE US ARMY CORPS OF ENGINEERS ON NOVEMBER 16, 2017 THE ARMY CORPS ASKED THAT PROPOSED STREAM CROSS SECTIONS UPSTREAM AND DOWNSTREAM OF THE CULVERT BE PROVIDED IN THE PERMIT PACKAGE SUBMITTAL THAT WILL BE PREPARED DURING PHASE II ENGINEERING. THE ARMY CORPS ALSO ASKED THAT FILL BE PLACED IN FRONT OF THE WEIRS IN THE OUTER CELLS ON THE UPSTREAM SIDE OF THE CULVERT.
- TREES THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1st THROUGH SEPTEMBER 30th OF ANY GIVEN YEAR.

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
515001-04	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602406-11	PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604091-05	FRAME AND GRATE TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630116	BACK SIDE PROTECTION OF GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
635001-02	DELINEATORS
664001-02	CHAIN LINK FENCE
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER.,FOR SPEEDS,LESS THAN OR EQUAL TO 40 MPH
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
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
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF BEACH PARK AND THE CITY OF ZION.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL."
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE -ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT kalpana.kannan-hosadurga@illinois.gov A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE ENGINEER SHALL CONTACT FADI SULTAN, TRAFFIC FIELD ENGINEER, AT fadi.sultan@illinois.gov TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- WHERE SECTION OR SUB -SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACK FILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, U.F.O.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW- PLOW RESISTANT)" SHOWN IN THE PLANS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO PROCEED WITH ANY PLANTING WORK UNTIL ALL UTILITY OWNERS FIELD LOCATE THEIR FACILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS.
- THE ACTUAL LOCATION OF PROPOSED LANDSCAPING WILL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN- STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL CONTACT PACE TRANSPORTATION ENGINEER AT (847)228-3584 A MINIMUM OF TWO(2) WEEKS PRIOR TO CLOSING IL 137.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS IN ADDITION TO THE BORROW REVIEW (BDE 2289) and USE/WASTE REVIEW (BDE 2290) SUBMITTALS. THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION ii.g.1 AND 2 of the SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES FOR THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



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

USER NAME	= kcartopassi
PLOT SCALE	= ---
PLOT DATE	= 4/20/2023

DESIGNED -	KAC
DRAWN -	AKW
CHECKED -	YOO
DATE -	2-2-23

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
GENERAL NOTES, INDEX OF SHEETS & STANDARDS

SCALE: AS SHOWN	SHEET 1	OF 1	SHEETS	STA. 40+00.00	TO STA. 55+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	2
CONTRACT NO.62141				
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					STATE 20% STATE/ 80% FEDERAL (NHPP)	TDC 100% FEDERAL
					CULVERT SN 049-0700 0010 URBAN	ROADWAY 0004 URBAN
*	X5610653	ABANDON WATER MAIN AND APPURTENANCES	LSUM	1	0	1
	X0328034	AS-BUILT DRAWINGS	LSUM	1	0	1
*	X5610308	TEMPORARY HDPE WATER MAIN (BORED), 8"	LSUM	1	0	1
*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	664	664	0
*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	216	216	0
*	20101000	TEMPORARY FENCE	FOOT	299	299	0
*	20101700	SUPPLEMENTAL WATERING	UNIT	5	5	0
	20200100	EARTH EXCAVATION	CU YD	4,415	4,415	0
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	55	55	0
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	5,217	5,217	0
	20800150	TRENCH BACKFILL	CU YD	128	128	0
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,300	1,300	0
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	50	50	0
*	25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5	0
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	0
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	0
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	0
*	25100630	EROSION CONTROL BLANKET	SQ YD	2,420	2,420	0
*	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	3,630	3,630	0
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250	250	0
*	28000305	TEMPORARY DITCH CHECKS	FOOT	800	800	0
*	28000400	PERIMETER EROSION BARRIER	FOOT	651	651	0
*	28000510	INLET FILTERS	EACH	16	16	0
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,678	1,678	0
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1,080	1,080	0
	35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	256	256	0
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	99	99	0
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,382	3,382	0
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	70	70	0
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	154	154	0

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SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					STATE 20% STATE/ 80% FEDERAL (NHPP)	TDC 100% FEDERAL
					CULVERT SN 049-0700 0010 URBAN	ROADWAY 0004 URBAN
	40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,013	1,013	0
	40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	1,500	1,500	0
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	44	44	0
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	7,015	7,015	0
	42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	152	152	0
	42400800	DETECTABLE WARNINGS	SQ FT	49	49	0
	44000100	PAVEMENT REMOVAL	SQ YD	1,514	1,514	0
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	474	474	0
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	35	35	0
	44000600	SIDEWALK REMOVAL	SQ FT	2,808	2,808	0
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	0
	50200100	STRUCTURE EXCAVATION	CU YD	5,496	5,496	0
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	433,880	433,880	0
	50800515	BAR SPLICERS	EACH	1,370	1,370	0
	51500100	NAME PLATES	EACH	1	1	0
	54003000	CONCRETE BOX CULVERTS	CU YD	1,365	1,365	0
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	21	21	0
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	21	21	0
	550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	7	7	0
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	32	32	0
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	6	6	0
	550A1010	STORM SEWERS, CLASS A, TYPE 4 24"	FOOT	8	8	0
	550A1280	STORM SEWERS, CLASS A, TYPE 5 24"	FOOT	25	25	0
	55100300	STORM SEWER REMOVAL 8"	FOOT	55	55	0
	55100500	STORM SEWER REMOVAL 12"	FOOT	114	114	0
	55100700	STORM SEWER REMOVAL 15"	FOOT	35	35	0
	55101100	STORM SEWER REMOVAL 21"	FOOT	22	22	0
	55101200	STORM SEWER REMOVAL 24"	FOOT	74	74	0
*	56103000	DUCTILE IRON WATER MAIN 6"	FOOT	50	0	50
*	56103100	DUCTILE IRON WATER MAIN 8"	FOOT	560	0	560

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SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					STATE 20% STATE/ 80% FEDERAL (NHPP)	TDC 100% FEDERAL
					CULVERT SN 049-0700 0010 URBAN	ROADWAY 0004 URBAN
*	56105000	WATER VALVES 8"	EACH	2	0	2
*	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2	0	2
*	56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	2	0	2
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	739	739	0
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	0
	60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1	0
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3	0
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	0
	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2	0
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	0
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	3	3	0
*	60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	0	2
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2	0
	60255500	MANHOLES TO BE ADJUSTED	EACH	6	6	0
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1	0
*	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1	0
	60500040	REMOVING MANHOLES	EACH	2	2	0
	60500050	REMOVING CATCH BASINS	EACH	3	3	0
	60500060	REMOVING INLETS	EACH	2	2	0
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	32	32	0
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	20	20	0
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	112.5	112.5	0
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	700.0	700.0	0
*	63000035	BACK SIDE PROTECTION OF GUARDRAIL	FOOT	112	112	0
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	0
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	5	0
	63200310	GUARDRAIL REMOVAL	FOOT	730	730	0
*	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	9	9	0
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	14,495	14,495	0
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6	0

FILE NAME = Z:\2019\190221 IDOT\PTB193\cadd\Civil\Drawings\162141-50Q_03.dgn

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					STATE 20% STATE/ 80% FEDERAL (NHPP)	TDC 100% FEDERAL
					CULVERT SN 049-0700 0010 URBAN	ROADWAY 0004 URBAN
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	0
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	0
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	60	60	0
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	0
	67100100	MOBILIZATION	L SUM	1	1	0
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60	0
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	125	125	0
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	0
*	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1	0
*	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	0
*	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1	0
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	5	0
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,140	1,140	0
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	51	51	0
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24	0
*	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	72	72	0
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30	30	0
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,282	1,282	0
*	81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	62	62	0
*	81603037	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	423	423	0
*	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	11	11	0
*	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	1	1	0
*	84200804	REMOVAL OF POLE FOUNDATION	EACH	1	1	0
*	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1	1	0
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2	0
*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,465	3,465	0
*	87900200	DRILL EXISTING HANDHOLE	EACH	3	3	0
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,116	7,116	0
*	89502376	REBUILD EXISTING HANDHOLE	EACH	2	2	0
*	89502380	REMOVE EXISTING HANDHOLE	EACH	1	1	0
*	A2001714	TREE, ACER SACCHARUM (SUGAR MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	2	2	0
*	A2006414	TREE, QUERCUS ALBA (WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3	3	0

FILE NAME = Z:\2019\190221 IDOT\PTB\193\card\Civil\Drawings\162\141-SOQ_04.dgn

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE	
SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STATE 20% STATE/ 80% FEDERAL (NHPP)	TDC 100% FEDERAL
					CULVERT SN 049-0700 0010 URBAN	ROADWAY 0004 URBAN
*	B2000964	TREE, AMELANCHIER LAEVIS (ALLEGHENY SERVICEBERRY), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	4	4	0
*	C20023G5	SHRUB, DIERVILLA LONICERA (BUSH HONEY SUCKLE), 5-GALLON	EACH	45	45	0
*	C2012760	SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 5' HEIGHT, BALLED AND BURLAPPED	EACH	5	5	0
*	C2C05824	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 2' WIDTH, CONTAINER	EACH	68	68	0
	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1	0
	X0324878	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	1	0	1
	X0326806	WASHOUT BASIN	L SUM	1	1	0
	X0426200	DEWATERING	L SUM	1	1	0
	X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	2	2	0
*	X1200221	NON-PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	2	0	2
*	X1200238	WATERMAIN FITTINGS	POUND	750	0	750
*	X1400217	TERMINATE FIBER IN CABINET	EACH	24	24	0
*	X1400218	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	3,465	3,465	0
*	X1400219	SPLICE FIBER IN CABINET	EACH	12	12	0
	X1700064	CLASS D PATCHES, TYPE I, 12 INCH SPECIAL	SQ YD	7	7	0
	X2080250	TRENCH BACKFILL, SPECIAL	CU YD	1,300	0	1,300
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	20	20	0
*	X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.75	0.75	0
*	X2501820	SEEDING, CLASS 5 (MODIFIED)	ACRE	0.75	0.75	0
	X2810110	STONE RIPRAP, CLASS A5 (SPECIAL)	SQ YD	1,085	1,085	0
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	6	6	0
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1	0
	X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	54	19	35
	X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	1,209	1,139	70
	X4420828	CLASS D PATCHES, TYPE III, 12 INCH (SPECIAL)	SQ YD	66	31	35
	X4421790	CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)	SQ YD	15	0	15
	X4421791	CLASS D PATCHES, TYPE IV, 12 INCH (SPECIAL)	SQ YD	256	41	215
*	X5610706	WATER MAIN REMOVAL, 6"	FOOT	35	0	35
*	X5610708	WATER MAIN REMOVAL, 8"	FOOT	550	0	550
*	X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	25	25	0
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	0
*	X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	1,220	1,220	0

SUMMARY OF QUANTITIES

[illegible]

FILE NAME = Z:\2019\190221 IDOT\PTB193\card\Civil\Drawings\162141-TYP_01.dgn



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

USER NAME	= kcartopassi
PLOT SCALE	= 1:20
PLOT DATE	= 2/4/2023

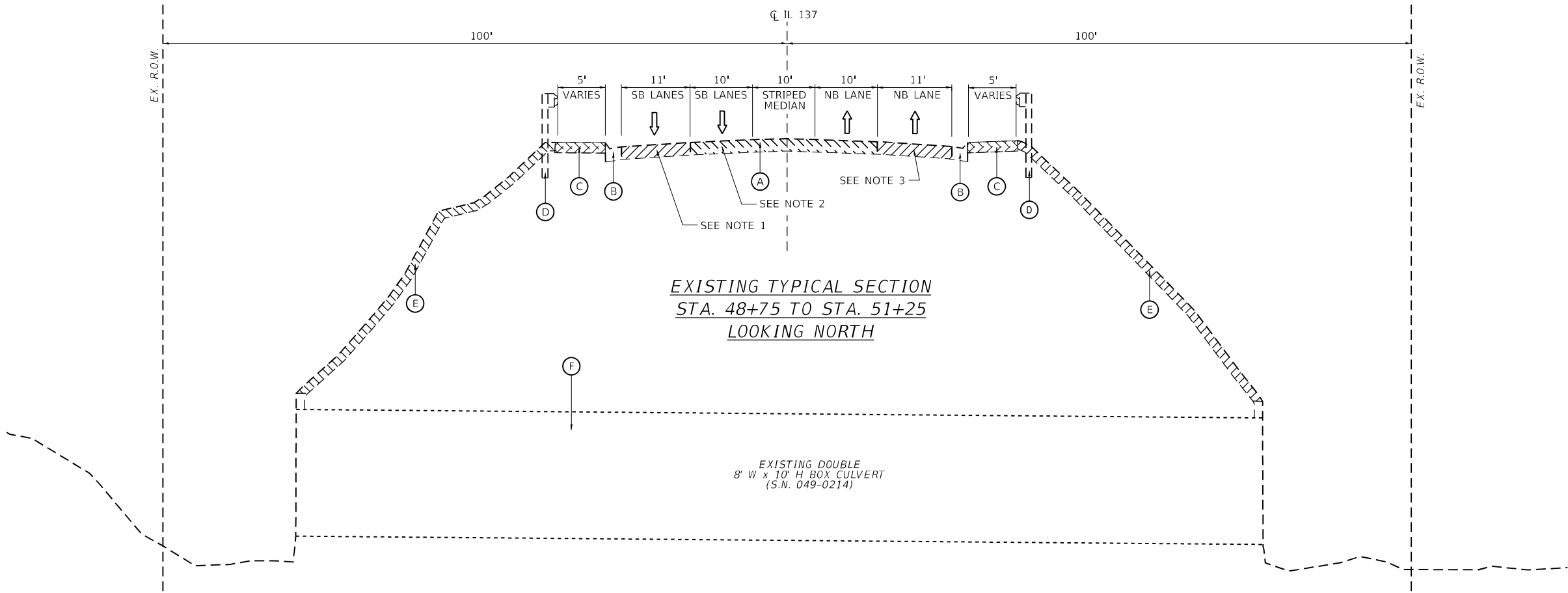
DESIGNED	KAC	REVISED	-
DRAWN	KAC	REVISED	-
CHECKED	- YOO	REVISED	-
DATE	- 2-2-23	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
EXISTING TYPICAL SECTION

SCALE: AS SHOWN	SHEET 1	OF 1	SHEETS	STA. 48+75.00	TO STA. 51+25.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	9
CONTRACT NO.62141				
ILLINOIS		FED. AID PROJECT		



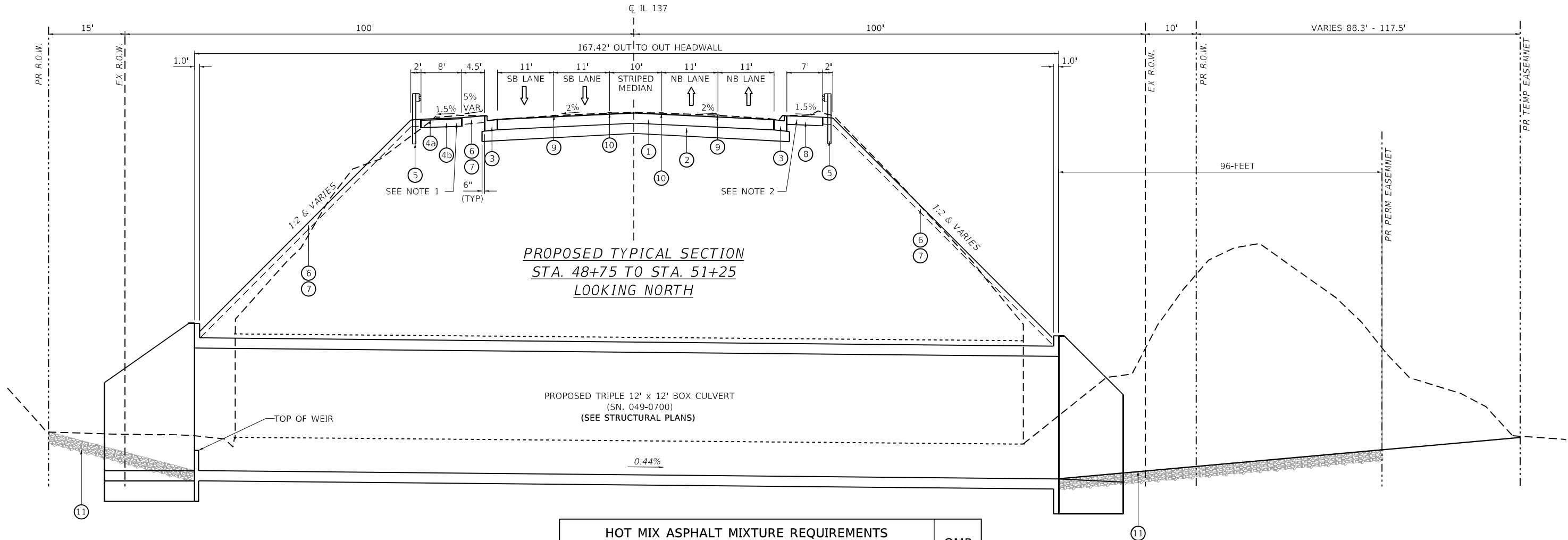
REMOVAL LEGEND

- (A) PAVEMENT REMOVAL
- (B) COMBINATION CURB & GUTTER REMOVAL
- (C) REMOVAL OF HMA PATH PAID FOR AS "SIDEWALK REMOVAL"
- (D) GUARDRAIL REMOVAL
- (E) TOPSOIL EXCAVATION 6" (AVERAGE) (TO BE PAID FOR AS "TOPSOIL EXCAVATION AND PLACEMENT")
- (F) REMOVE EX DOUBLE BOX CULVERT AND EX HEADWALLS PAID FOR AS "REMOVAL OF EXISTING STRUCTURE NO.1"

NOTES:

- EXISTING PAVEMENT - 18.5" HMA
- EXISTING PAVEMENT
-10.5" TO 11.5" HMA (OVER)
- 9" TO 10" PCC
- EXISTING PAVEMENT - 19" HMA

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PROPOSED LEGEND

- 1 PROPOSED HMA PAVEMENT (FULL DEPTH), 12"
- 2 PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 3 PROPOSED COMB CONC C&G TYPE B-6.24
- 4 PROPOSED SHARED-USE PATH TO BE PAID FOR AS
 - 4a HMA SURFACE COURSE, IL-9.5, MIX "D", N50-2"
 - 4b AGGREGATE BASE COURSE, TYPE B, 6"
- 5 PROPOSED STEEL PLATE GUARDRAIL (SEE GUARDRAIL DETAIL SHEET FOR GUARDRAIL PAY ITEMS)
- 6 PROPOSED 6" OF TOPSOIL TO BE PAID FOR AS "TOPSOIL EXCAVATION AND PLACEMENT"
- 7 SEEDING AND FERTILIZER W/ EROSION CONTROL BLANKET (AS SPECIFIED)
- 8 PCC SIDEWALK, 5"
- 9 PAVEMENT MARKING - LINE 4", WHITE (10' DASH-30' SKIP)
- 10 PAVEMENT MARKING - LINE 4", DOUBLE YELLOW (@ 11" C-C)
- 11 STONE RIPRAP, CLASS A5 (SPECIAL)

HOT MIX ASPHALT MIXTURE REQUIREMENTS		QMP
MIXTURE TYPE	AIR VOIDS @ Ndes	
HMA PAVEMENT (FULL-DEPTH) 12"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL - 9.5, N70 - 2"	4% @ 70 Gyr	QC/QA
HMA BINDER COURSE, IL-19.0, N70 - 10"	4% @ 70 Gyr	QC/QA
DRIVEWAY PAVEMENT		
HOT-MIX SURFACE COURSE, MIX "D", IL - 9.5, N50 - 2"	4% @ 50 Gyr.	QC/QA
HMA BASE COURSE (HMA BINDER IL-19 mm); PE -6", CE - 8"	4% @ 50 Gyr.	QC/QA
CLASS D PATCHES, 12" (SPECIAL)		
HMA SURFACE COURSE, IL-9.5, MIX "D", N70-2"	4% @ 70 Gyr	QC/QA
HMA BINDER COURSE, IL-19.0, N70-10"	4% @ 70 Gyr	QC/QA
SHARED-USE PATH		
HMA SURFACE COURSE, IL-9.5, MIX "D", N50-2"	4% @ 50 Gyr	QC/QA
INCIDENTAL HMA SURFACING (STABILIZATION UNDER GUARDRAIL)		
HMA SURFACE COURSE, IL-9.5, MIX "D", N50-2"	4% @ 50 Gyr	QC/QA
INCIDENTAL HMA SURFACING (IN FRONT OF REPLACE C&G ON II 137)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL - 9.5, N70 - 2"	4% @ 70 Gyr	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

NOTES:

- 1. PR. SHARED-USE PATH FROM STA. 41+32.8 LT TO STA. 54+00 LT
- 2. PR. PCC SIDEWALK FROM STA. 44+43.5 RT TO STA. 54+13.8 RT



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

USER NAME = kcartopassi
PLOT SCALE = 1:20
PLOT DATE = 2/4/2023

DESIGNED KAC
DRAWN KAC
CHECKED - YOO
DATE - 2-2-23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
PROPOSED TYPICAL SECTION

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 48+75.00 TO STA. 51+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	10
CONTRACT NO.62141				
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2010\100221_IDOT\PTB\03\kac\civil\cgm\shrd\621413-SCHOTY_2.dgn

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)					
STATION	OFFSET (FEET)	LT/RT	NORTHING	EASTING	DIAMETER (INCHES)
47+91.56	-46.45	LT	2,098,728.54	1,121,261.12	8
47+91.61	-46.40	LT	2,098,728.58	1,121,261.17	12
48+12.08	-40.25	LT	2,098,749.08	1,121,267.24	14
48+17.90	-45.70	LT	2,098,754.88	1,121,261.77	14
48+63.49	-43.11	LT	2,098,800.48	1,121,264.18	12
48+71.17	-44.15	LT	2,098,808.16	1,121,263.11	15
49+09.29	-49.61	LT	2,098,846.25	1,121,257.52	14
49+39.53	-50.05	LT	2,098,876.49	1,121,256.95	14
49+53.21	-47.48	LT	2,098,890.18	1,121,259.48	14
49+55.67	-47.14	LT	2,098,892.64	1,121,259.81	14
49+56.14	-90.30	LT	2,098,892.95	1,121,216.64	12
49+67.77	-61.89	LT	2,098,904.69	1,121,245.01	12
49+71.55	-49.66	LT	2,098,908.51	1,121,257.23	7
49+71.55	-49.66	LT	2,098,908.51	1,121,257.23	7
49+75.96	-74.58	LT	2,098,912.83	1,121,232.28	8
49+78.72	-80.15	LT	2,098,915.56	1,121,226.71	8
49+79.99	-47.42	LT	2,098,916.96	1,121,259.43	6
49+91.24	-56.67	LT	2,098,928.18	1,121,250.14	12
49+98.05	-48.55	LT	2,098,935.01	1,121,258.24	10
49+98.05	-48.55	LT	2,098,935.01	1,121,258.24	10
49+98.05	-48.55	LT	2,098,935.01	1,121,258.24	10
50+15.63	-47.87	LT	2,098,952.80	1,121,258.92	8
50+19.47	-53.96	LT	2,098,956.65	1,121,252.82	12
50+19.47	-53.96	LT	2,098,956.65	1,121,252.82	12
49+72.49	85.89	RT	2,098,909.96	1,121,392.77	8
49+73.74	102.02	RT	2,098,911.27	1,121,408.90	15
49+77.16	81.96	RT	2,098,914.62	1,121,388.83	6
49+78.71	80.76	RT	2,098,916.17	1,121,387.61	10
50+06.74	75.03	RT	2,098,943.85	1,121,381.81	12
50+11.22	80.22	RT	2,098,948.33	1,121,387.00	6
50+11.84	126.37	RT	2,098,948.93	1,121,433.16	12
50+14.67	125.24	RT	2,098,951.76	1,121,432.02	14
50+14.88	112.29	RT	2,098,951.98	1,121,419.07	12
50+14.88	112.29	RT	2,098,951.98	1,121,419.07	12
50+18.67	79.72	RT	2,098,955.78	1,121,386.51	6
50+19.08	114.90	RT	2,098,956.18	1,121,421.68	15
50+20.44	110.07	RT	2,098,957.54	1,121,416.86	12
50+24.89	121.21	RT	2,098,961.99	1,121,428.00	12
50+32.80	86.85	RT	2,098,969.91	1,121,393.64	8
50+33.67	98.82	RT	2,098,970.77	1,121,405.61	15
50+38.16	124.45	RT	2,098,975.25	1,121,431.25	12
50+39.68	63.01	RT	2,098,976.80	1,121,369.80	6
50+43.82	54.97	RT	2,098,980.95	1,121,361.77	7
50+49.86	64.16	RT	2,098,986.98	1,121,370.96	8
50+55.95	52.91	RT	2,098,993.08	1,121,359.71	14
50+59.40	60.54	RT	2,098,996.52	1,121,367.34	7
50+59.40	60.54	RT	2,098,996.52	1,121,367.34	7
50+73.11	62.11	RT	2,099,010.23	1,121,368.92	12
50+75.69	103.69	RT	2,099,012.79	1,121,410.50	10
50+84.45	57.68	RT	2,099,021.57	1,121,364.50	12
51+05.44	57.57	RT	2,099,042.56	1,121,364.39	14
51+08.93	51.52	RT	2,099,046.06	1,121,358.34	8
51+19.60	57.38	RT	2,099,056.72	1,121,364.21	14
51+45.74	52.56	RT	2,099,082.86	1,121,359.40	14
51+53.39	51.26	RT	2,099,090.51	1,121,358.10	14
51+79.51	47.69	RT	2,099,116.64	1,121,354.55	12
51+85.51	52.49	RT	2,099,122.64	1,121,359.35	8
51+89.02	58.59	RT	2,099,126.15	1,121,365.45	14
52+07.62	46.40	RT	2,099,144.75	1,121,353.27	7
52+92.63	52.01	RT	2,099,229.76	1,121,358.92	12
52+97.79	48.42	RT	2,099,234.91	1,121,355.33	12

TOTAL 664 UNITS

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)				
STATION	OFFSET (FEET)	NORTHING	EASTING	DIAMETER (INCHES)
49+67.98	-104	2,098,904.73	1,121,202.43	30
50+24.65	80	2,098,961.76	1,121,387.17	42
50+36.44	102	2,098,973.54	1,121,409.25	36
50+54.82	94	2,098,991.93	1,121,400.78	38
52+66.09	46	2,099,203.22	1,121,352.90	22
53+40.73	47	2,099,277.86	1,121,354.15	48
53+69.69	44	2,099,306.82	1,121,351.08	0

TOTAL 216 UNITS

EARTHWORK SCHEDULE										
1		2	3	4	5	6	7	8*	9*	10
LOCATION		EARTH EXCAVATION	STRUCTURE EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL EXCAVATION (DEPTH = 6")	TOPSOIL PLACEMENT (DEPTH = 6")	TOPSOIL BALANCE SURPLUS (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
IL 137	STA. 41+00 TO 42+00	15			13		13	20	10	10
	STA. 42+00 TO 43+00	15			13		13	35	20	15
	STA. 43+00 TO 45+00	55			47	10	37	95	50	45
	STA. 45+00 TO 46+00	40			34	5	29	60	30	30
	STA. 46+00 TO 47+00	40			34		34	50	30	20
	STA. 47+00 TO 48+00	30			26	5	21	55	35	20
	STA. 48+00 TO 49+00	65			56	15	41	70	45	25
	STA. 49+00 TO 49+80	85			73	70	3	80	60	20
	STA. 49+80 TO 50+25		5411							
	STA. 50+25 TO 50+96	745			634	840	-206	120	115	5
	STA. 50+96 TO 52+00	680			578	885	-307	165	140	25
	STA. 52+00 TO 53+00	470			400	800	-400	175	140	35
	STA. 53+00 TO 54+00	220		55	187	355	-168	125	95	30
	STA. 54+00 TO 54+45	20			17	5	12	20	10	10
BULL CREEK	STA. 98+75 TO 99+15	210			179		179			
	STA. 100+82 TO 101+00	280			238		238			
	STA. 101+00 TO 101+50	775			659		659			
	STA. 101+50 TO 102+00	565			481		481			
STA. 102+00 TO 102+50		105			90		90			
ADDITIONAL QTY FOR ROUNDING OF SEEDING AREAS								230	230	0
TOTAL		4415	5411	55	3759	2990	769	1300	1010	290

* TOPSOIL EXCAVATED TO A DEPTH OF 6" IN AREAS THAT WILL BE DISTURBED BY PROPOSED WORK TOPSOIL REQUIRED BASED ON AREA OF PROPOSED LANDSCAPING (PLACED AT A DEPTH OF 6") PAY ITEM "TOPSOIL EXCAVATION AND PLACEMENT" WILL BE MEASURED FOR PAYMENT BASED ON THE TOTAL VOLUME OF TOPSOIL EXCAVATED. EXCAVATED TOPSOIL IS TO BE STORED EITHER WITHIN THE CONTRACT'S LIMITS, OR OFF SITE AND THEN PLACED AGAIN FOR LANDSCAPING PURPOSES. EXCAVATED TOPSOIL NOT REQUIRED ON THE PROJECT SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. THIS WORK IS INCLUDED IN THE PAY ITEM "TOPSOIL EXCAVATION AND PLACEMENT."

- COLUMN 1: LOCATION FROM PLANS
- COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS. DOES NOT INCLUDE STRUCTURE EXCAVATION, UNSUITABLE MATERIAL, AND/OR TOPSOIL.
- COLUMN 3: STRUCTURE EXCAVATION
- COLUMN 4: CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT.
- COLUMN 5: QUANTITIES OF EARTH EXCAVATION ADJUSTED FOR A SHRINKAGE FACTOR OF 15%.
- COLUMN 6: QUANTITIES OF EMBANKMENT (FILL) FROM CROSS SECTIONS.
- COLUMN 7: EARTHWORK REQUIRED (COLUMN 5 - COLUMN 6)
(+) = QUANTITY TO BE WASTED
(-) = QUANTITY OF EMBANKMENT (FILL) NEEDED
- COLUMN 8: QUANTITIES OF EXISTING TOPSOIL FROM CROSS SECTIONS. TO BE PAID FOR AS "TOPSOIL EXCAVATION AND PLACEMENT".
- COLUMN 9: QUANTITIES OF TOPSOIL NEEDED FOR LANDSCAPING FROM CROSS SECTIONS.
- COLUMN 10: TOPSOIL REQUIRED (COLUMN 8 - COLUMN 9)
(+) = QUANTITY OF TOPSOIL TO BE WASTED
(-) = QUANTITY OF FURNISHED TOPSOIL NEEDED

20101000 TEMPORARY FENCE

STATION	STATION	OFFSET	LENGTH
			FEET
51+15.46	54+13.56	RT	299.27

TOTAL 299 FEET

20700110 POROUS GRANULAR EMBANKMENT

LOCATION		WIDTH (FEET)	LENGTH (FEET)	DEPTH (FEET)	VOLUME (CUYDS)
DIRECTLY OVER PR. CULVERT		84.0	49.3	19.2	2,946.65
VOLUME ABOVE THE SOUTH SIDE OF CULVERT		84.0	5.00	19.20	298.67
		84.0	12.50	19.20	746.67
VOLUME ABOVE THE NORTH SIDE OF CULVERT		84.0	6.50	19.20	388.27
		84.0	14.00	19.20	836.27

TOTAL 5,217 CU YDS

20800150 TRENCH BACKFILL

STORM MH	TO	STORM MH	PIPE LENGTH (FEET)	PIPE DIA. (INCH)	AVERAGE DEPTH (FEET)	IDOT TBF TABLES (CUYDS/PER LF)	TBF (CU. YDS.)
1		2	21.0	12	1.69	0.132	2.77
2		3	21.0	15	2.35	0.155	3.26
3		6	53.0	18	3.00	0.231	12.24
4		5	21.0	12	1.69	0.132	2.77
5		6	21.0	15	2.36	0.155	3.26
6		7	16.0	24	17.76	3.320	53.12
7		CULVERT	0.0	36	10.29	0.000	0.00
8		CULVERT	0.0	21	7.22	0.000	0.00
14		9	82.0	12	5.60	0.279	22.88
9		10	4.1	12	6.28	0.744	3.05
11		12	57.5	12	2.09	0.133	7.65
12		13	53.9	12	3.73	0.320	17.25

TOTAL 128 CU YDS



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 = 4/20/2023

DESIGNED - KAC
DRAWN - KAC
CHECKED - YOO
DATE - 2-2-23

REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.

SECTION

COUNTY

TOTAL SHEETS

SHEET NO.

352

2019-074-SW&I

LAKE

90

11

CONTRACT NO.62141

ILLINOIS FED. AID PROJECT

FILE NAME = Z:\2019\190221 ID01P1B193\cadd\Civil\Drawn\Sh\01B2J41-SCH0TY_3.dgn

21101625 TOPSOIL FURNISH AND PLACE, 6"

STATION	STATION	OFFSET (LT/RT)	AREA SQ FT	AREA SQ YDS
CONTINGENCY				50

TOTAL 50 SQ YDS

25000210 SEEDING, CLASS 2A

STATION	STATION	OFFSET (LT/RT)	AREA SQ FT	AREA SQ YDS
BEHIND THE HMA PATH				
41+00.0	44+00.0	LT	1,447.7	0.0332
44+00.0	45+50.0	LT	1,067.1	0.0245
45+50.0	46+20.0	LT	398.3	0.0091
46+20.0	47+30.0	LT	804.5	0.0185
47+30.0	48+82.5	LT	1,151.2	0.0264
50+78.0	52+48.0	LT	3,111.1	0.0714
52+48.0	54+25.0	LT	2,831.6	0.0650

BETWEEN THE HMA PATH AND THE B/C

41+00.0	44+00.0	LT	1,163.6	0.0267
44+00.0	45+50.0	LT	562.3	0.0129
45+50.0	46+20.0	LT	171.8	0.0039
46+20.0	47+30.0	LT	475.1	0.0109
47+30.0	50+71.5	LT	1,402.5	0.0322
50+71.5	52+60.0	LT	768.1	0.0176
52+60.0	54+25.0	LT	649.6	0.0149

BEHIND THE PCC SIDEWALK

44+00.0	48+31.0	RT	1,965.6	0.0451
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TOTAL 0.50 ACRES

25000400 NITROGEN FERTILIZER NUTRIENT

STATION	STATION	AREA ACRES	LB/ACRE	POUNDS
SEEDING, CLASS 2A		0.500	90	45.00

TOTAL 45 POUNDS

25000500 PHOSPHORUS FERTILIZER NUTRIENT

STATION	STATION	AREA ACRES	LB/ACRE	POUNDS
SEEDING, CLASS 2A		0.500	90	45.00

TOTAL 45 POUNDS

25000600 POTASSIUM FERTILIZER NUTRIENT

STATION	STATION	AREA ACRES	LB/ACRE	POUNDS
SEEDING, CLASS 2A		0.500	90	45.00

TOTAL 45 POUNDS

25100630 EROSION CONTROL BLANKET

STATION	STATION	AREA SQ FT	AREA SQ YD
SEEDING, CLASS 2A		21780	2420.00

TOTAL 2420 SQ YDS

25100635 HEAVY DUTY EROSION CONTROL BLANKET

STATION	STATION	OFFSET	AREA SQ FT	AREA SQ YD
SW SIDE OF CULVERT		LT	3991.045	443.45
NW SIDE OF CULVERT		LT	3612.7	401.41
SE SIDE OF CULVERT		RT	18186.48	2020.72
NE SIDE OF CULVERT		RT	2703.963	300.44
ROUNDING TO MATCH SEEDING			4175.8	463.98

TOTAL 3630 SQ YDS

28000250 TEMPORARY EROSION CONTROL SEEDING

STATION	AREA ACRES	LBS. PER ACRE	APPL.	TOTAL POUNDS
Area of Seeding CL 2A	0.5000	100	2	100.00
Area of Seeding CL 4/5 Mod	0.7500	100	2	150.00

TOTAL 250 LBS

28000305 TEMPORARY DITCH CHECKS

LOCATION	LENGTH (FEET)
SOUTHWEST OF CULVERT	56
NORTHWEST OF CULVERT	143.6
SOUTHEAST OF CULVERT	529.9
NORTHEAST OF CULVERT	70

TOTAL 800 FEET

28000400 PERIMETER EROSION BARRIER

STATION	STATION	OFFSET	LENGTH (FEET)
48+00	50+00	RT	152
50+00	54+50	RI	370.3
48+00	50+00	LT	127.8

TOTAL 651 FEET

28000510 INLET FILTERS

STATION	RT/LT	EACH
41+83.60	LT	1
45+20.60	RT	1
45+21.20	LT	1
48+71.00	LT	1
48+72.80	RT	1
49+76.20	LT	1
49+76.20	RT	1
50+00.00	LT	1
50+00.00	RT	1
50+24.00	LT	1
50+24.00	RT	1
51+53.00	LT	1
51+56.00	RT	1
53+51.60	LT	1
53+72.00	RT	1
54+76.00	RT	1

TOTAL 16 EACH

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

STA. (Approx.)	STA. (Approx.)	LT/RT	AREA SQ FT	AREA SQ YD
48+75	51+25	LT & RT	15,040.18	1,671.13
NEX of Oak Forest Dr.		RT	59.23	6.58

TOTAL 1,678.0 SQ YDS

35101800 AGGREGATE BASE COURSE, TYPE B 6"

STA. (Approx.)	STA. (Approx.)	LT/RT	AREA SQ FT	AREA SQ YD
41+32.79	43+91.63	LT	2,070.73	230.08
at Driveway 44+11.4		LT	0.00	0.00
44+32.01	45+51.14	LT	966.18	107.35
at Driveway 45+61.4		LT	0.00	0.00
45+70.57	46+11.64	LT	326.55	36.28
at Driveway 46+19.1		LT	0.00	0.00
46+26.71	47+26.36	LT	813.18	90.35
at Driveway 47+36.1		LT	0.00	0.00
47+43.51	50+63.46	LT	2,560.26	284.47
at Driveway 50+71.6		LT	0.00	0.00
50+84.86	52+47.47	LT	1,343.42	149.27
at Driveway 52+58.8		LT	0.00	0.00
52+70.02	54+00.00	LT	1,043.11	115.90
51+81.00	52+15.00	LT	597.00	66.33

TOTAL 1,080 SQ YDS



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PLOT DATE = 4/20/2023

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	12
		CONTRACT NO. 62141		
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2019\190221 IDOT\PIB\93\cadd\Civil\Drawings\CHQTY_4.dgn

35501308 HOT-MIX ASPHALT BASE COURSE, 6"				
STA. (Approx.)	LT/RT	AREA SQ FT	AREA SQ YD	DRIVEWAY TYPE
44+12	LT	703.69	78.19	PE
45+61	LT	475.54	52.84	PE
46+19	LT	350.04	38.89	PE
47+36	LT	316.07	35.12	PE
50+70	LT	406.44	45.16	PE
48+31	RT	56.06	6.23	PE
TOTAL		256	SQ YDS	

35501316 HOT-MIX ASPHALT BASE COURSE, 8"				
STA. (Approx.)	LT/RT	AREA SQ FT	AREA SQ YD	DRIVEWAY TYPE
52+58	LT	891.88	99.10	CE
TOTAL		99	SQ YDS	

40600275 BITUMINOUS MATERIALS (PRIME COAT)						
STA. (Approx.)	STA. (Approx.)	LT/RT	AREA SQ FT	LBS. PER SQ FT	NUMBER OF LIFTS	# TOTAL
NEX Oak Forest Dr. (New Curb)		RT	30.40	0.250	1	7.60
48+25.00			13,498.77	0.250	1	3,374.69
TOTAL						3382 LBS.

40600290 BITUMINOUS MATERIALS (TACK COAT)						
STA. (Approx.)	STA. (Approx.)	LT/RT	AREA SQ FT	LBS. PER SQ FT	NUMBER OF LIFTS	# TOTAL
NEX Oak Forest Dr. (New Curb)		RT	30.4	0.0250	1	0.76
Structure 10	Structure 11		279.29	0.0250	1	6.98
Structure 13	Structure 14		202.35	0.0250	1	5.06
Watermain Relocation Patches			2,295	0.0250	1	57.38
TOTAL						70 LBS

40604060 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50								
STA. (Approx.)	STA. (Approx.)	LT/RT	AREA SQ FT	AREA SQ YD	#/IN/SQYD	THICKNESS (INCHES)	TOTAL LBS	TOTAL TONS
44+12		LT	703.69	78.19	112	2	17,514.06	8.76 Driveway
45+61		LT	475.54	52.84	112	2	11,835.66	5.92 Driveway
46+19		LT	350.04	38.89	112	2	8,712.11	4.36 Driveway
47+36		LT	316.07	35.12	112	2	7,866.63	3.93 Driveway
50+70		LT	406.44	45.16	112	2	10,115.84	5.06 Driveway
52+58		LT	891.88	99.10	112	2	22,197.90	11.10 Driveway
48+31		RT	56.06	6.23	112	2	1,395.27	0.70 Driveway
41+32.79	43+91.63	LT	2,070.73	230.08	112	2	51,538.17	25.77 Path
44+32.01	45+51.14	LT	966.18	107.35	112	2	24,047.15	12.02 Path
45+70.57	46+11.64	LT	326.55	36.28	112	2	8,127.47	4.06 Path
46+26.71	47+26.36	LT	813.18	90.35	112	2	20,239.15	10.12 Path
47+43.51	50+63.46	LT	2,560.26	284.47	112	2	63,722.03	31.86 Path
50+84.86	52+47.47	LT	1,343.42	149.27	112	2	33,436.23	16.72 Path
52+70.02	54+00.00	LT	1,043.11	115.90	112	2	25,961.85	12.98 Path
TOTAL							154	TONS

40700100 BITUMINOUS MATERIALS (TACK COAT)					
STA. (Approx.)	STA. (Approx.)	AREA SQ FT	# SQ FT	NUMBER OF LIFTS	# TOTAL
48+75	51+25	13,498.77	0.025	3	1,012.41
TOTAL					1,013 LBS

40701921 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"			
STA. (Approx.)	STA. (Approx.)	AREA SQ FT	AREA SQ YD
48+25	51+25	13,498.77	1,499.86
TOTAL		1,500	SQ YD

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING						
STATION	STATION	OFFSET	AREA (SQ FT)	TON/IN/SQYD	THICKNESS (IN)	TONS
41+00	41+50	LT	48	112	2	0.59
43+00	45+00	LT	137	112	2	1.70
45+00	46+00	LT	88	112	2	1.10
46+00	46+50	LT	79	112	2	0.98
47+00	48+00	LT	79	112	2	0.98
48+00	52+30	LT	976	112	2	12.14
52+30	53+00	LT	96	112	2	1.19
53+00	55+00	LT	87	112	2	1.09
44+00	45+00	RT	55	112	2	0.68
48+00	53+50	RT	1,286	112	2	16.01
51+81	52+15	LT	597	112	2	7.43
TOTAL						44 TONS

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	
LOCATION	AREA SQ. FT.
NWX TALMADGE AVE	126.39
PACE Bus Pad @ TALMADGE	112.47
Sta. 44+43.46 to Sta. 48+23.04	2,563.94
Sta. 48+39.02 to Caset's DW	4,047.73
ADA RAMP @ McDonald's Driveway	164.28
TOTAL 7,015 SQ FT	

42400410 PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	
LOCATION	AREA SQ. FT.
PE Sta 48+31, RT	151.88
TOTAL 152 SQ FT	

42400800 DETECTABLE WARNINGS	
LOCATION	AREA SQ. FT.
NWX TALMADGE AVE	21.45
NEX OAK FOREST DR	17.44
McDonald's Driveway	10.00
TOTAL 49 SQ FT	

44000100 PAVEMENT REMOVAL				
STA. (Approx.)	STA. (Approx.)	LT/RT	AREA SQ. FT.	AREA SQ. YD.
48+75.0	51+25.0	RT	13,338.87	1,482.10
51+25.0	53+06.1	RT	284.08	31.56
TOTAL			1,514	SQ YD

44000200 DRIVEWAY PAVEMENT REMOVAL			
STA. (Approx.)	LT/RT	AREA SQ. FT.	AREA SQ. YD.
44+11.4	LT	710.90	78.99
45+61.4	LT	459.88	51.10
46+19.0	LT	361.64	40.18
47+36.0	LT	267.18	29.69
50+70.0	LT	484.35	53.82
52+58.0	LT	872.00	96.89
46+20.9	RT	153.97	17.11
48+31.0	RT	136.07	15.12
Driveway to Sta. 50+81		817.31	90.81
LT to Sta. 51+46 LT			
TOTAL 474 SQ YDS			



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PLOT DATE = 4/20/2023

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE:	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	13
		CONTRACT NO. 62141		
ILLINOIS		FED. AID PROJECT		

FILE NAME = Z:\2019\190221 ID01PTB193\cadd\Civil\Drawn\0162141-SCH0TY_5.dgn

44000500 COMBINATION CURB AND GUTTER REMOVAL			
STA.	STA.	LT/RT	LENGTH (FOOT)
52+58	Hotel Dwy	LT	35
TOTAL			35 FEET
44000600 SIDEWALK REMOVAL			
STATION	STATION	OFFSET	AREA SQ FT
46+26.80	47+30.73	LT	872.76
48+88.82	50+65.06	LT	756.73
51+69.08	54+60.91	LT	513.05
49+34.20	50+90.74	RT	664.72
TOTAL			2,808 SQ FT
550A0050 STORM SEWERS, CLASS A, TYPE 1 12"			
MH #	MH #	LENGTH FOOT	
4	5	21.0	
TOTAL		21	FOOT
550A0070 STORM SEWERS, CLASS A, TYPE 1 15"			
MH #	MH #	LENGTH FOOT	
5	6	21.0	
TOTAL		21	FOOT
550A0400 STORM SEWERS, CLASS A, TYPE 2 21"			
MH #	MH #	LENGTH FOOT	
8	Box Culvert	6.8	
TOTAL		7	FOOT
550A0410 STORM SEWERS, CLASS A, TYPE 2 24"			
MH #	MH #	LENGTH FOOT	
7		8	BROKEN PIPE
10		16	CONTINGENCY
13		8	CONTINGENCY
TOTAL		32	FEET
550A0450 STORM SEWERS, CLASS A, TYPE 2 36"			
MH #	MH #	LENGTH FOOT	
7	Box Culvert	5.4	
TOTAL		6	FEET
550A1010 STORM SEWERS, CLASS A, TYPE 4 24"			
MH #	MH #	LENGTH FOOT	
13		8	CONTINGENCY
TOTAL		8	FOOT
550A1280 STORM SEWERS, CLASS A, TYPE 5 24"			
MH #	MH #	LENGTH FOOT	
6	7	25	
TOTAL		25	FOOT

55100300 STORM SEWER REMOVAL 8"			
STA.	STA.	LT/RT	LENGTH FOOT
50+06.00	50+06.00	ACROSS IL 137	55
TOTAL			55 FOOT
55100500 STORM SEWER REMOVAL 12"			
STA.	STA.	LT/RT	LENGTH FOOT
50+06.00	51+01.00	LT	91
53+60.00	53+81.00	RT	23
TOTAL			114 FOOT
55100700 STORM SEWER REMOVAL 15"			
STA.	STA.	LT/RT	LENGTH FOOT
53+51.60	53+91.70	LT	35
TOTAL			35 FOOT
55101100 STORM SEWER REMOVAL 21"			
STA.	STA.	LT/RT	LENGTH FOOT
49+64.00	49+86.00	LT	22
TOTAL			22 FOOT
55101200 STORM SEWER REMOVAL 24"			
STA.	STA.	LT/RT	LENGTH FOOT
50+02.00	50+26.00	LT	34
51+00.00		LT	16
52+76.00		LT	8
53+51.60		LT	16
TOTAL			74 FOOT
56105000 WATER VALVES 8"			
LOCATION		EACH	
48+45, RT.		1	
55+01, RT.		1	
TOTAL		2 EACH	
56400500 FIRE HYDRANTS TO BE REMOVED			
LOCATION		EACH	
44+63, RT.		1	
48+34, RT.		1	
TOTAL		2 EACH	
56400820 FIRE HYDRANT WITH AUXILIARY VALVE			
LOCATION		EACH	
44+63, RT.		1	
48+34, RT.		1	
TOTAL		2 EACH	

60200105 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID			
STRUCT. #	STATION	LT/RT	EACH
9	53+51.60	LT	1
TOTAL		1	EACH
60200305 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE			
STRUCT. #	STATION	LT/RT	EACH
14	53+53	RT	1
TOTAL		1	EACH
60201340 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE			
STRUCT. #	STATION	LT/RT	EACH
3	50+24.10	RT	1
6	50+24.10	LT	1
12	51+53.30	LT	1
TOTAL		3	EACH
60218400 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. #	STATION	LT/RT	EACH
8	49+66.40	LT	1
TOTAL		1	EACH
60219540 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE			
STRUCT. #	STATION	LT/RT	EACH
2	50+00.00	RT	1
5	50+00.00	LT	1
TOTAL		2	EACH
60223800 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. #	STATION	LT/RT	EACH
7	50+24.21	LT	1
10	53+51.60	LT	1
13	51+00.80	LT	1
TOTAL		3	EACH
60237470 INLETS, TYPE A, TYPE 24 FRAME AND GRATE			
STRUCT. #	STATION	LT/RT	EACH
1	49+75.90	RT	1
4	49+75.90	LT	1
11	51+55.90	RT	1
TOTAL		3	EACH
60248700 VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
LOCATION		EACH	
48+45, RT.		1	
55+01, RT.		1	
TOTAL		2	EACH



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DRAWN - KAC	REVISED -
CHECKED - YOO	REVISED -
DATE - 2-2-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE:	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	14
		CONTRACT NO. 62141		
		ILLINOIS FED. AID PROJECT		

FILE NAME = Z:\2019\190221 ID01P1B193\cadd\Civil\Drawn\Sheet\01B2J41-SCHOTY_6.dgn

60250200 CATCH BASINS TO BE ADJUSTED

LOCATION	O/S	EACH
48+72.8	LT	1
48+72.8	RT	1

TOTAL 2 EACH

60255500 MANHOLES TO BE ADJUSTED

LOCATION	O/S	EACH
45+21.20	LT	1
48+71.20	LT	1
49+58.14	LT	1
52+78.97	LT	1
53+48	LT	1
49+62.47	RT	1

TOTAL 6 EACH

60257900 MANHOLES TO BE RECONSTRUCTED

CONTIGENCY	1	EACH
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60265700 VALVE VAULTS TO BE ADJUSTED

CONTIGENCY	1	EACH
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60500040 REMOVING MANHOLES

LOCATION	O/S	EACH
51+00.80	LT	1
53+51.60	LT	1

TOTAL 2 EACH

60500050 REMOVING CATCH BASINS

LOCATION	O/S	EACH
50+06.00	LT	1
53+75.00	RT	1
53+91.69	LT	1

TOTAL 3 EACH

60500060 REMOVING INLETS

LOCATION	O/S	EACH
50+06.00	RT	1
53+91.50	LT	1

TOTAL 2 EACH

60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

STA. (Approx.)	STA. (Approx.)	O/S	LENGTH FOOT
52+58.00	Hotel Dwy	LT	31.89

TOTAL 32 FEET

60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

STA. (Approx.)	STA. (Approx.)	O/S	LENGTH FOOT
Contingency			20

TOTAL 20 FOOT

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

STA.	STA.	O/S	LENGTH FOOT
51+06.50	51+94.00	LT	87.5
50+64.70	00+00.00	LT	25.0

TOTAL 112.5 FEET

63000003 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS

STA.	STA.	O/S	LENGTH FOOT
48+59.38	53+71.23	RT	512.5
48+62.06	50+49.38	LT	187.5

TOTAL 700.0 FEET

63000035 BACK SIDE PROTECTION OF GUARDRAIL

STA.	STA.	O/S	LENGTH FOOT
51+06.50	51+94.00	LT	112.0

TOTAL 112.0 FEET

63100045 TRAFFIC BARRIER TERMINAL, TYPE 2

S. SIDE OF DW @50+635	1	EACH	TOTAL
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63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STA.	STA.	OFFSET	EACH
48+00	49+00	RT	1
48+00	49+00	LT	1
51+00	52+00	LT	2
53+00	54+00	RT	1

TOTAL 5 EACH

63200310 GUARDRAIL REMOVAL

LOCATION	LENGTH
LEFT	239.31
RIGHT	490.49

TOTAL 730.0 FEET

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

STA.	O/S	# OF MARKERS
44+67.9	RT	1
48+60.7	RT	1
49+65.2	RT	1
49+72.6	RT	1
49+82.3	RT	1
50+88.5	RT	2
49+40.3	LT	1
50+54.8	LT	1

TOTAL 9 EACH

70400100 TEMPORARY CONCRETE BARRIER

LOCATION	LENGTH
At Driveway - Sta 50+71.5	125

TOTAL 125 FEET

72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A

STATION	LT/RT	EACH
51+27.7	RT	1

TOTAL 1 EACH

72400200 REMOVE SIGN PANEL ASSEMBLY - TYPE B

STATION	O/S	EACH
51+27.66	RT	1

TOTAL 1 EACH

JCT M2-1
Lake Co M1-6
St Name D3-1
Arrow M5-1

72400500 RELOCATE SIGN PANEL ASSEMBLY - TYPE A

STATION	LT/RT	EACH
51+27.7	RT	1
54+22.4	LT	1

TOTAL 2 EACH

72400600 RELOCATE SIGN PANEL ASSEMBLY - TYPE B

STATION	O/S	EACH
51+27.66	RT	1

TOTAL 1 EACH

72501000 TERMINAL MARKER - DIRECT APPLIED

STATION	LT/RT	EACH
49+00	RT	1
49+00	LT	1
52+00	LT	2
54+00	RT	1

TOTAL 5 EACH

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"

STATION	STATION	LT/RT	# OF LINES	TOTAL FOOT	
48+75	51+25	LT	2	500	DOUBLE YELLOW
48+75	51+25	RT	2	500	DOUBLE YELLOW
SUBTOTAL				1,000	FEET

LANE LINE STATION	STATION	LI/RI	NUMBER OF DASH	LENGTH OF DASH (FEET)	TOTAL FEET	
48+75	51+25	LT	7	10	70	WHITE
48+75	51+25	RT	7	10	70	WHITE
SUBTOTAL					140	FEET

TOTAL 1,140 FEET

78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"

LOCATION	# OF LINES	AVE. LENGTH (FEEET)	TOTAL LENGTH (FEET)	
MEDIAN	4	12.8	51.2	YELLOW
TOTAL			51	FEET



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 = 4/20/2023

DESIGNED - KAC
DRAWN - KAC
CHECKED - YOO
DATE - 2-2-23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	15
CONTRACT NO. 62141				
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2019\190221 ID01P1B193\cadd\Civil\Drawn\Shr\ID022141-SCH0TY_7.dgn

78100100 RAISED REFLECTIVE PAVEMENT MARKER

LT/RT	EACH
SB MEDIAN	6
NB MEDIAN	6
LANE LINE RT	6
LANE LINE LT	6

TOTAL 24 EACH

78200006 GUARDRAIL REFLECTORS, TYPE B

LOCATION	LT/RT	LENGTH FT	SECTS OF GUARDRAIL EACH	(1) REFLECT. PER SECT EACH
GR BEHIND PATH	LT	237.5	19	19
GR BEHIND CURB	LT	112.5	9	9
GR BEHIND SW	RT	550.0	44	44

TOTAL 72 EACH

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

LOCATION	LT/RT	EACH
SB LANE LINE	LT	8
SB ADJ TO MEDIAN	LT	7
NB LANE LINE	RT	8
NB ADJ TO MEDIAN	RT	7

TOTAL 30 EACH

A2001714 TREE, ACER SACCHARUM (SUGAR MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED

STATION	STATION	LT/RT	EACH
51+00	52+00	RT	1
52+00	53+00	RT	1

TOTAL 2 EACH

A2006414 TREE, QUERCUS ALBA (WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED

STATION	STATION	LT/RT	EACH
48+00	49+00	RT	1
49+00	50+00	RT	1
53+00	54+00	RT	1

TOTAL 3 EACH

B2000964 TREE, AMELANCHIER LAEVIS (ALLEGHENY SERVICEBERRY), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED

STATION	STATION	LT/RT	EACH
51+00	52+00	RT	1
49+00	50+00	LT	1
50+00	51+00	LT	1
50+00	51+00	RT	1

TOTAL 4 EACH

C20023G5 SHRUB, DIERVILLA LONICERA (BUSH HONEY SUCKLE), 5-GALLON

STATION	STATION	LT/RT	EACH
49+00	50+00	RT	7
50+00	51+00	RT	14
51+00	52+00	RT	7
52+00	53+00	RT	7
49+00	50+00	LT	10

TOTAL 45 EACH

C2012760 SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 5' HEIGHT, BALLED AND BURLAPPED

STATION	STATION	LT/RT	EACH
49+00	50+00	LT	2
50+00	51+00	LT	1
50+00	51+00	RT	1
52+00	53+00	RT	1

TOTAL 5 EACH

C2C05824 SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 2' WIDTH, CONTAINER

STATION	STATION	LT/RT	EACH
49+00	50+00	RT	8
50+00	51+00	RT	8
51+00	52+00	RT	8
52+00	53+00	RT	16
53+00	54+00	RT	8
49+00	50+00	LT	10
50+00	51+00	LT	10

TOTAL 68 EACH

X0324878 ADJUSTING SANITARY SEWER SERVICE LINE

Contingency	1	EACH
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X0900075 COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)

STAGE I	1	EACH
STAGE II	1	EACH
TOTAL	2	EACH

X1700064 CLASS D PATCHES, TYPE I, 12 INCH SPECIAL

STA.	STA.	LT/RT	PR. CURB (FOOT)	WIDTH (FOOT)	AREA (SQ FT)	AREA (SQ YD)
OAK FOREST DR AT IL 137		RT	14.80	4.00	56.88	6.32
TOTAL					7	SQ YD

X2080250 TRENCH BACKFILL, SPECIAL

LOCATION	CU YD
Watermain Relocation	1,300

TOTAL 1,300 CU YD

X2130010 EXPLORATION TRENCH, SPECIAL

Contingency	20	FEET	TOTAL
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X2501800 SEEDING, CLASS 4 (MODIFIED)

STATION	STATION	OFFSET (LT/RT)	AREA SQ FT	AREA ACRES
SW SIDE OF CULVERT		LT	3,991.05	0.09
NW SIDE OF CULVERT		LT	3,612.70	0.08
SE SIDE OF CULVERT		RT	18,186.48	0.42
NE SIDE OF CULVERT		RT	2,703.96	0.06
TOTAL			0.75	ACRES

X2501820 SEEDING, CLASS 5 (MODIFIED)

STATION	STATION	OFFSET (LT/RT)	AREA SQ FT	AREA ACRES
SW SIDE OF CULVERT		LT	3,991.0	0.09
NW SIDE OF CULVERT		LT	3,612.7	0.08
SE SIDE OF CULVERT		RT	18,186.5	0.42
NE SIDE OF CULVERT		RT	2,704.0	0.06
TOTAL			0.75	ACRES

X2810110 STONE RIPRAP, CLASS A5 (SPECIAL)

LOCATION	AREA (SQ FT)	AREA (SQ YD)
W OF CULVERT	1782.83	198.09
E OF CULVERT	7981.63	886.85

TOTAL 1085 SQYD



WBK ENGINEERING, LLC
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(630) 443-7755

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PLOT SCALE = 1:2
PLOT DATE = 4/20/2023

DESIGNED - KAC
DRAWN - KAC
CHECKED - YOO
DATE - 2-2-23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	16
CONTRACT NO. 62141			ILLINOIS FED. AID PROJECT	

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X4400501 COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10			
53+47.1	53+56.1	LT	9
53+77.1	53+86.5	RT	10
FOR WM CONSTRUCTION			35

TOTAL 54 FEET

X4400503 COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET			
STA. (Approx.)	STA. (Approx.)	O/S	LENGTH FOOT
53+81	54+14	LT	33.00
41+12	41+24	LT	18.00
43+85	44+38	LT	52.50
45+45	45+78	LT	33.70
46+04	46+34	LT	30.00
47+21	47+51	LT	30.00
48+37	51+25	LT	288.39
51+25	52+15	LT	90.00
52+40	52+77	LT	37.00
McDonald's Driveway (ADA)		LT	13.70
48+18	53+18	RT	499.80
44+44	44+56	RT	12.63
Watermain Relocation		RT	70.00

TOTAL 1,209 FEET

X4420828 CLASS D PATCHES, TYPE III, 12 INCH (SPECIAL)

STA.	STA.	LT/RT	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ FT)	AREA (SQ YD)
Struct 11	Struct 12		54.26	5.0	271.30	30.14
Watermain Constuction						35.00

TOTAL 66 SQ YDS

X4421790 CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)

Watermain Construction	15	SQ YDS	TOTAL
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X4421791 CLASS D PATCHES, TYPE IV, 12 INCH (SPECIAL)

STA.	STA.	LT/RT	PR.	LENGTH FT	WIDTH OF PATCH	AREA SQ FT	AREA SQ YD
Struct 14 Rt	Struct 9 LT					364.00	40.44
WATERMAIN RELOCATION							215.00

TOTAL 256 SQ YD

X6330725 STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

STA.	STA.	LT/RT	LENGTH (FOOT)
50+00.00	51+00.00	LT	25.0

TOTAL 25.0 FEET

Z0022800 FENCE REMOVAL

Sta	Sta	O/S	LENGTH (FEET)	
51+42	54+18	RT	278	TOTAL

Z0056608 STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH

MH #	MH #	LENGTH FOOT
1	2	21.0
9	10	4.1
11	12	57.5
13	12	53.9
14	9	82.0

TOTAL 219 FOOT

Z0056610 STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH

MH #	MH #	LENGTH FOOT
2	3	21.0

TOTAL 21 FOOT

Z0056612 STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH

MH #	MH #	LENGTH FOOT
3	6	53.0

TOTAL 53 FOOT



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PLOT SCALE = 1:2
PLOT DATE = 4/20/2023

DESIGNED - KAC
DRAWN - KAC
CHECKED - YOO
DATE - 2-2-23

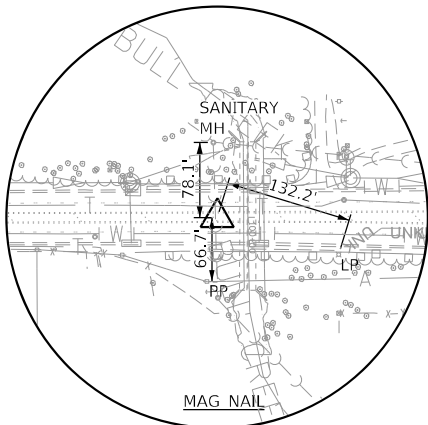
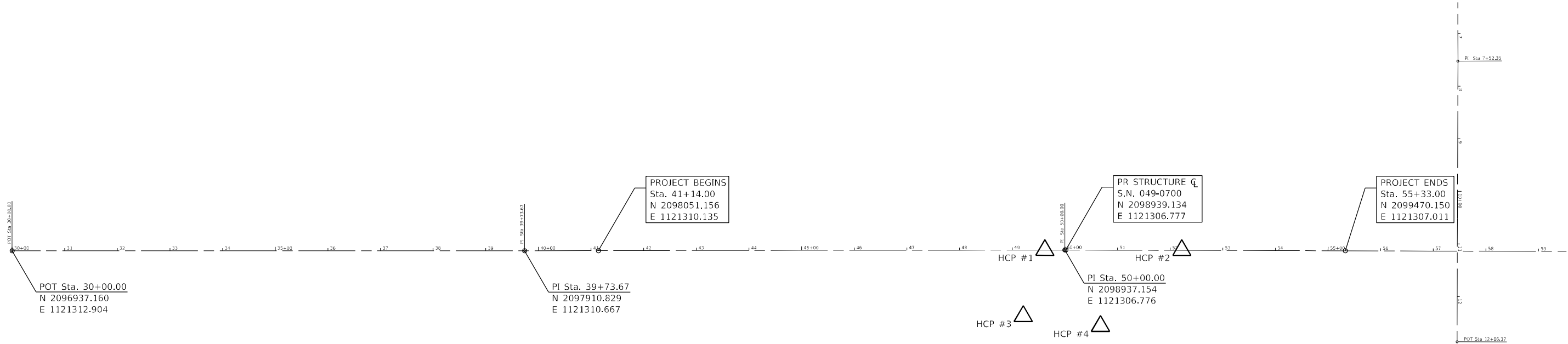
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REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

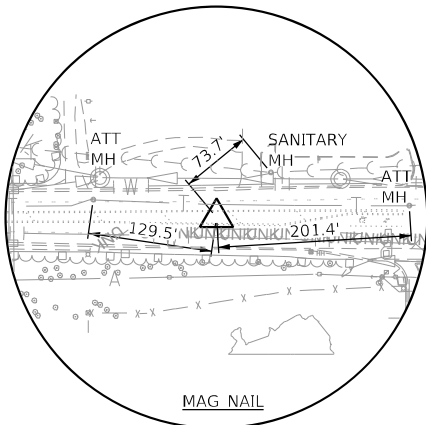
IL 137 OVER BULL CREEK CULVERT REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE:	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.
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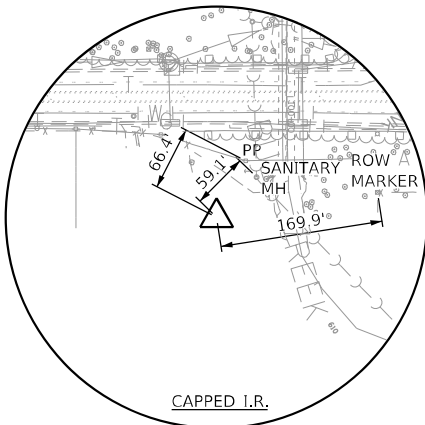
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	17
		CONTRACT NO.62141		
ILLINOIS		FED. AID PROJECT		



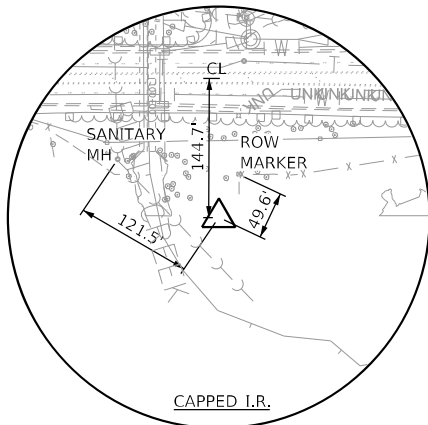
HORIZONTAL CONTROL POINT NO. 1



HORIZONTAL CONTROL POINT NO. 2



HORIZONTAL CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 4



BM #221
(NOT SHOWN)

NOTE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ADDITIONAL CONTROL POINTS AND BENCHMARKS SHOULD THE ONES PROVIDED BE LOST OR DESTROYED DURING CONSTRUCTION ACTIVITIES.

VERTICAL REFERENCE MARK

NATIONAL GEODETIC SURVEY BENCH MARK: NG0221

ABOUT 0.90 MILES SOUTH ALONG SHERIDAN ROAD FROM THE MUNICIPAL BUILDING THENCE 0.30 MILES EAST ALONG WADSWORTH ROAD AT THE CROSSING OF WADSWORTH ROAD, 78 FEET SOUTHEAST OF THE CENTER LINE OF THE RAILROAD CROSSING, 64 FEET SOUTH OF THE CENTER LINE OF WADSWORTH ROAD, 38 FEET EAST OF THE EAST RAIL OF THE EAST MAIN TRACK, 2.6 FEET SOUTHWEST OF THE NORTHWEST CORNER POST OF A CHAIN LINK FENCE.

A NGS DISK ON TOP OF A COPPER COATED STEEL ROD DRIVEN TO A DEPTH OF 15 FEET AND ENCASED IN A 6 INCH METAL PIPE PROJECTING 1/10 FOOT AND LOCATED 1 FOOT SOUTH OF A METAL WITNESS POST, ABOUT 9 FEET BELOW THE LEVEL OF THE RAILROAD.

DATUM: NAD 83 (GEOID18)

LEGEND



= BENCH MARK (BM) LOCATION



= HORIZONTAL CONTROL POINT (HCP) LOCATION

HORIZONTAL CONTROL POINTS (NAD 83)

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2098899.226	1121307.106	626.45	E_IL137	49+62.08	00.19' RT	MAG NAIL
2	2099159.449	1121306.630	628.71	E_IL137	52+22.30	00.24' LT	MAG NAIL
3	2098858.362	1121432.971	631.77	E_IL137	49+20.74	125.90' RT	CAPPED IRON ROD
4	2099005.229	1121451.547	599.18	E_IL137	50+68.14	144.74' RT	CAPPED IRON ROD

BENCH MARKS (NAD 83 - GEOID18)

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
221	2099595.230	1122988.56	593.32	N/A	N/A	N/A	COPPER-CLAD STEEL ROD W/O SLEEVE

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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 = 1:200
PLOT DATE = 2/4/2023

DESIGNED - KAC
DRAWN - KAC
CHECKED - YOO
DATE - 2-2-23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

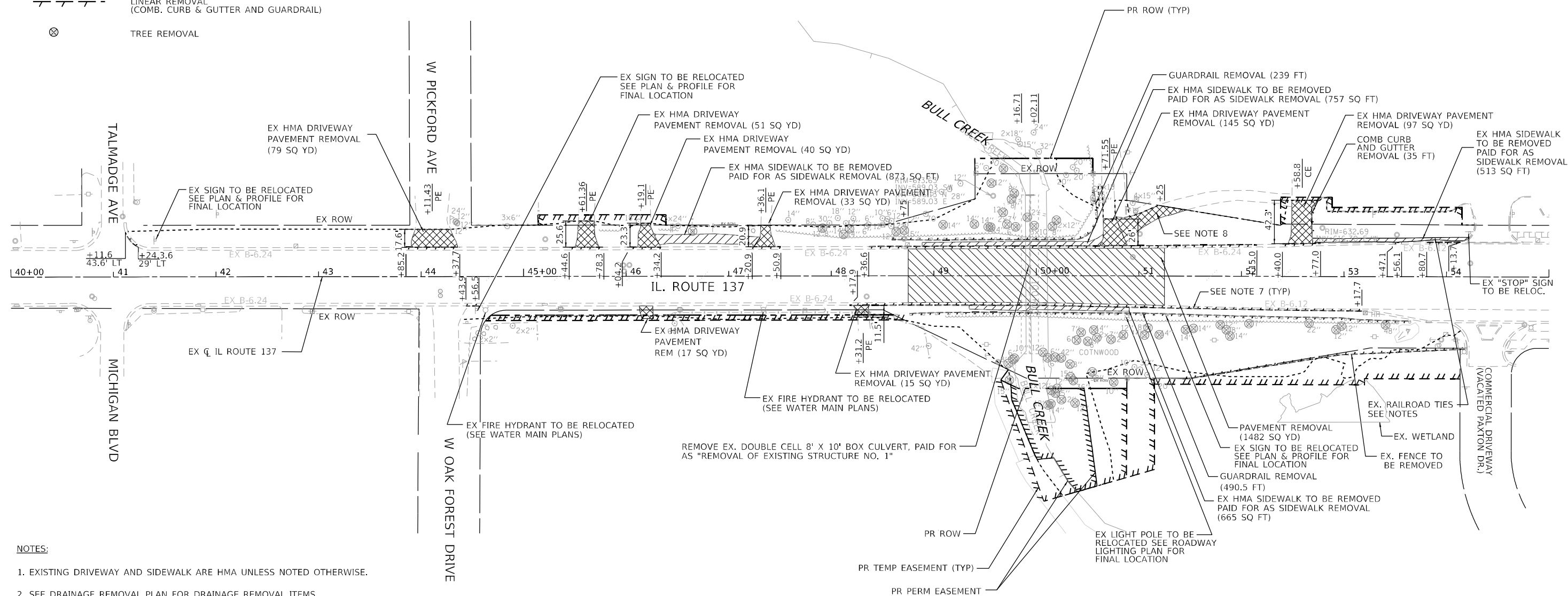
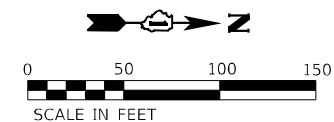
IL 137 OVER BULL CREEK CULVERT REPLACEMENT
ALIGNMENT, TIES & BENCHMARKS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	18
CONTRACT NO.62141				
ILLINOIS FED. AID PROJECT				

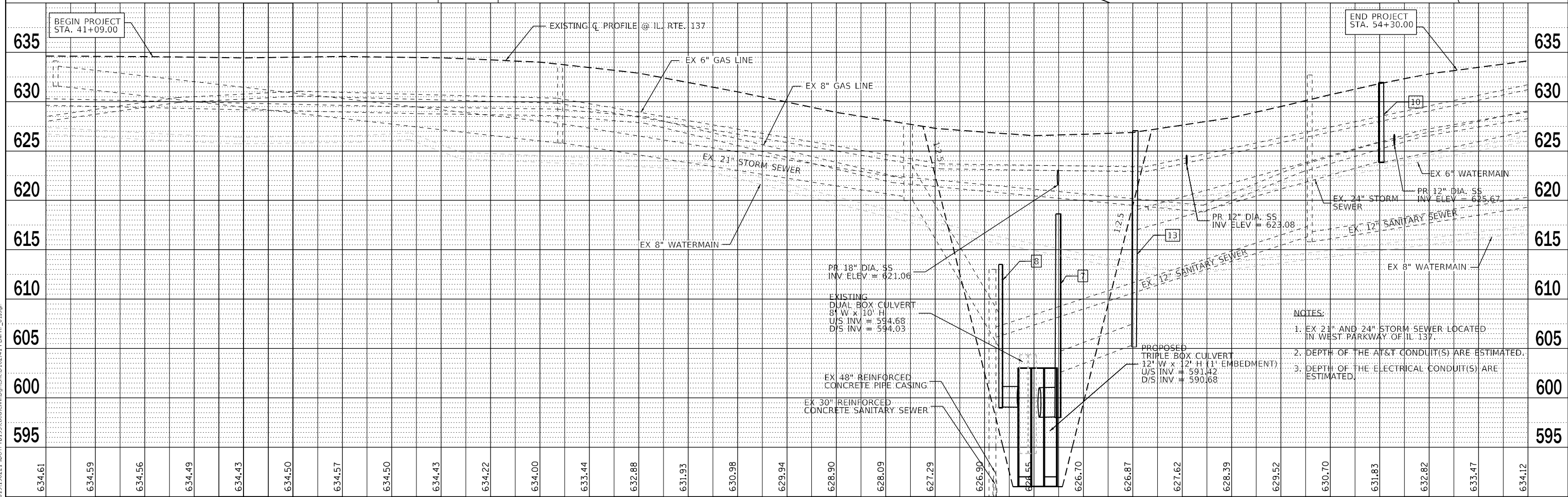
SIDEWALK REMOVAL

TREE REMOVAL



1. EXISTING DRIVEWAY AND SIDEWALK ARE HMA UNLESS NOTED OTHERWISE.
2. SEE DRAINAGE REMOVAL PLAN FOR DRAINAGE REMOVAL ITEMS.
3. SEE TREE REMOVAL SCHEDULE FOR EXACT SIZE AND LOCATION OF TREES TO BE REMOVED.
4. EXISTING DRIVEWAY AT STATION 46+19 (RT) TO BE ELIMINATED.
5. SEE WATER MAIN PLANS FOR CONSTRUCTION OF TEMPORARY WATER MAIN, PROPOSED WATER MAIN, FIRE HYDRANT RELOCATIONS, AND REMOVAL OF EXISTING WATER MAIN.
6. EXISTING RAILROAD TIES TO BE REMOVED. REMOVAL OF ALL ENCOUNTERED TIES WILL NOT BE PAID SEPARATELY BUT THE COST OF REMOVAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
7. REMOVAL OF EXISTING COMBINATION CURB AND GUTTER TO BE INCLUDED IN THE COST OF COMB C&G REM&REP ≤ 10' OR CURB REM&REP > 10' FT UNLESS OTHERWISE CALLED OUT.
8. EX HMA TO BE REMOVED AND PAID FOR AS DRIVEWAY PAVEMENT REMOVAL. REMOVAL OF AGGREGATE SHALL BE PAID FOR AS EARTH EXCAVATION.

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	GRADES CHECKED _____		
NO. _____	B.M. NOTED _____		
	STRUCTURE NOTAT'NS CH'KD _____		



 WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = kcartopassi	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 137 OVER BULL CREEK PLAN & PROFILE				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	DRAWN - AKW	REVISED -						352	2019-074-SW&I	LAKE	90	20
	PLOT DATE = 4/17/2023	CHECKED - YOO	REVISED -		CONTRACT NO.62J41								
	DATE - \$PDATE	REVISED -	ILLINOIS FED. AID PROJECT										
				SCALE: AS SHOWN	SHEET 1	OF 1	SHEETS	STA. 41+09.00	TO STA. 54+30.00				

1. SEE SPECIAL PROVISIONS TITLED TRAFFIC CONTROL AND PROTECTION ARTERIAL AND TRAFFIC CONTROL PLAN.
2. THE CONTRACTOR SHALL REMOVE AND SAFELY STORE (FREE FROM THEFT OR DAMAGE) OR COVER ALL CONFLICTING EXISTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. ALL SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE CONSTRUCTION.
3. THE FOLLOWING APPLY TO CONSTRUCTION SIGNS:
 - A) THE CONTRACTOR SHALL FURNISH ALL SIGNS.
 - B) ALL SIGNS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL) PAY ITEM, EXCEPT FOR TEMPORARY INFORMATION SIGNING AS NOTED ON THE PLANS.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL ENTRANCES FOR THE ENTIRE DURATION OF THE PROJECT UNLESS OTHERWISE SHOWN ON THE PLANS.
5. SIGNING FOR COMMERCIAL DRIVEWAYS SHALL FOLLOW DISTRICT DETAIL TC-26.

The diagram shows a rectangular sign with a black border and white background. The text on the sign is: "ROAD WILL BE CLOSED FROM MMM ## THRU MMM". The sign is positioned on a road. To the right of the sign, there are vertical dimensions: 15'-3" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road), 4'-4" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road), 7'-4" (from the top of the sign to the top of the road). To the left of the sign, there are horizontal dimensions: 11'-6" (from the left edge of the sign to the left edge of the road), 19'-3" (from the left edge of the sign to the left edge of the road), 7'-11" (from the left edge of the sign to the left edge of the road), 16'-9" (from the left edge of the sign to the left edge of the road), 11'-2" (from the left edge of the sign to the left edge of the road). Below the sign, there are horizontal dimensions: 11'-8" (from the left edge of the sign to the left edge of the road), 8'-7" (from the left edge of the sign to the left edge of the road), 7'-11" (from the left edge of the sign to the left edge of the road), 28'-7" (from the left edge of the sign to the left edge of the road), 10'-6" (from the left edge of the sign to the left edge of the road). At the bottom, there are horizontal dimensions: 6'-2" (from the left edge of the sign to the left edge of the road), 5'-4" (from the left edge of the sign to the left edge of the road), 5'-6" (from the left edge of the sign to the left edge of the road), 5'-8" (from the left edge of the sign to the left edge of the road).

OVERLAY PANEL ① TO CONTAIN STARTING DATE OF FULL CLOSURE AND
DETOUR IMPLEMENTATION (I.E. "FROM APR 2")
OVERLAY PANEL ② TO CONTAIN ENDING MONTH OF FULL CLOSURE AND
DETOUR (I.E. "THRU JULY"). OMIT THE DATE ON PANEL ②; MONTH ONLY.

ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS ① AND ② IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.



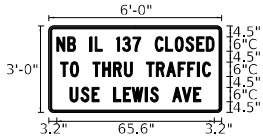
SIGN NUMBER	CUSTOM-6036(O)
WIDTH x HGHT.	5'-0" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

[illegible]

Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

[illegible]

SIGN DETAIL



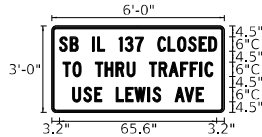
SIGN NUMBER	CUSTOM-7236(O)
WIDTH x HGHT.	6'-0" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

[illegible]

Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

[illegible]

SIGN DETAIL



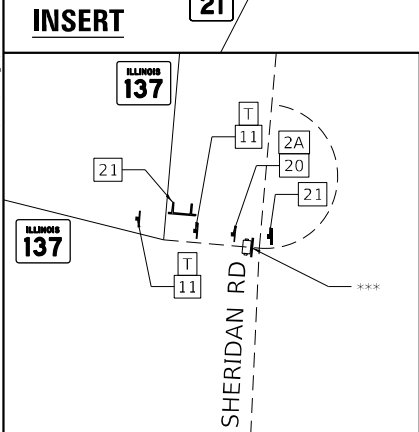
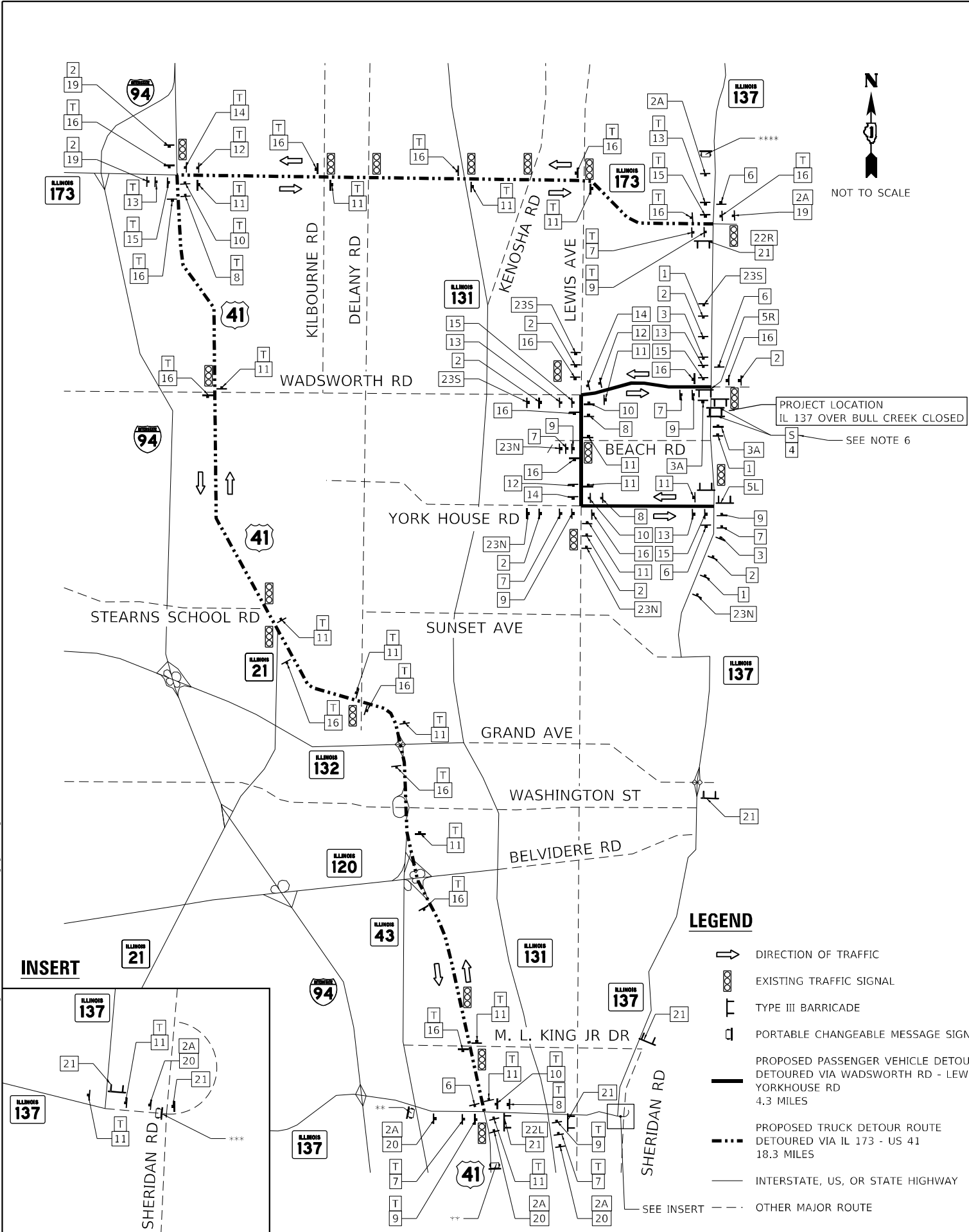
SIGN NUMBER	CUSTOM-7236(O)
WIDTH x HGHT.	6'-0" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

[illegible]

Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

[illegible]

MODEL: Default
FILE NAME: 22-030311.00 IDOT D1 PTE 103-008 IL 137 over Bull Creek-DC&NDesign-PreliminarySheets/D162J41-shr-staging-detour.dgn



LEGEND

- DIRECTION OF TRAFFIC
- EXISTING TRAFFIC SIGNAL
- TYPE III BARRICADE
- PORTABLE CHANGEABLE MESSAGE SIGN
- PROPOSED PASSENGER VEHICLE DETOUR ROUTE
DETOURED VIA WADSWORTH RD - LEWIS AVE - YORKHOUSE RD
4.3 MILES
- PROPOSED TRUCK DETOUR ROUTE
DETOURED VIA IL 173 - US 41
18.3 MILES
- INTERSTATE, US, OR STATE HIGHWAY
- OTHER MAJOR ROUTE

1

W20-3-4848(O)
(W AMBER BEACON)

2

W20-2-4848(O)
(W AMBER BEACON)

2A

W20-2-4848(O)
(W AMBER BEACON)

M4-4-2412(O)

3

W20-3-4848(O)

3A

W20-3-4848(O)
(W AMBER BEACON)

* 4

R11-2-4830

* 5R

R11-4-6030

M4-10R-4818(O)

* 5L

R11-4-6030

M4-10L-4818(O)

6

M4-8A-2418

T

M4-4-2412(O)
TO BE PLACED
ON TOP OF
DETOUR SIGN
PANEL ASSEMBLY

7

M4-8-2412(O)
M3-1-2412(O)

M1-5-3024

M5-1L-2115(O)

8

M4-8-2412(O)
M3-1-2412(O)

M1-5-3024

M5-1R-2115(O)

9

M4-8-2412(O)
M3-1-2412(O)

M1-5-3024

M6-1-2115(O)

10

M4-8-2412(O)
M3-1-2412(O)

M1-5-3024

M6-1-2115(O)

11

M4-8-2412(O)
M3-1-2412(O)

M1-5-3024

M6-3-2115(O)

12

M4-8-2412(O)
M3-3-2412(O)

M1-5-3024

M5-1L-2115(O)

13

M4-8-2412(O)
M3-3-2412(O)

M1-5-3024

M5-1R-2115(O)

14

M4-8-2412(O)
M3-3-2412(O)

M1-5-3024

M6-1-2115(O)

15

M4-8-2412(O)
M3-3-2412(O)

M1-5-3024

M6-1-2115(O)

16

M4-8-2412(O)
M3-3-2412(O)

M1-5-3024

M6-3-2115(O)

19

M3-3-2412(O)

M1-5-3024

20

M3-1-2412(O)

M1-5-3024

21

IL 137 CLOSED
TO THRU
TRUCK TRAFFIC

CUSTOM-6036(O)
(PAID AS TEMPORARY
INFORMATION SIGNING)

22L

M4-10L-4818(O)

22R

M4-10R-4818(O)

S

ROAD WILL
BE CLOSED
FROM MMM ##
THRU MMM

CUSTOM-6648(O)
(PAID AS TEMPORARY
INFORMATION SIGNING)

23N

NB IL 137 CLOSED
TO THRU TRAFFIC
USE LEWIS AVE

CUSTOM-7236(O)
(PAID AS TEMPORARY
INFORMATION SIGNING)

23S

SB IL 137 CLOSED
TO THRU TRAFFIC
USE LEWIS AVE

CUSTOM-7236(O)
(PAID AS TEMPORARY
INFORMATION SIGNING)

*

MOUNT SIGN ON TYPE III BARRICADE WITH FLASHING LIGHTS.

CHANGEABLE MESSAGE SIGN ALERTING TRUCKS THAT IL 137 IS CLOSED

** MSG 1:	IL 137 CLOSED	*** MSG 1:	IL 137 CLOSED	**** MSG 1:	IL 137 CLOSED
MSG 2:	10 MILES AHEAD	MSG 2:	9 MILES AHEAD	MSG 2:	2 MILES AHEAD
MSG 3:	TRUCKS FOLLOW DETOUR	MSG 3:	TRUCKS FOLLOW DETOUR	MSG 3:	TRUCKS FOLLOW DETOUR

NOTES

- TYPE III BARRICADES SHALL BE PLACED IN ADVANCE OF THE LIMITS OF CONSTRUCTION.
- PLACE "S" AT OR NEAR POINT OF CLOSURE 2 WEEKS PRIOR TO START DATE OF CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.
- FOR SPECIAL INFORMATION SIGNS USE 6" MINIMUM BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND.
- PORTABLE CHANGEABLE MESSAGE SIGN IS TO REMAIN IN USE FOR TWO WEEKS AFTER THE START DATE OF THE ROAD CLOSURE.
- SEE STAGING NOTES SHEET FOR SIGN DETAILS
- SEE DETAIL A IN STAGING NOTES FOR ADDITIONAL DETAILS
- TEMPORARY TRAFFIC SIGNAL TIMING REQUIRED FOR THE INTERSECTIONS AT:
 - IL 137 AND WADSWORTH RD
 - WADSWORTH RD AND LEWIS AVE
 - LEWIS AVE AND BEACH RD
 - LEWIS AVE AND YORK HOUSE RD
 - YORK HOUSE RD AND IL 137

EFK•Moen
Civil Engineering Design

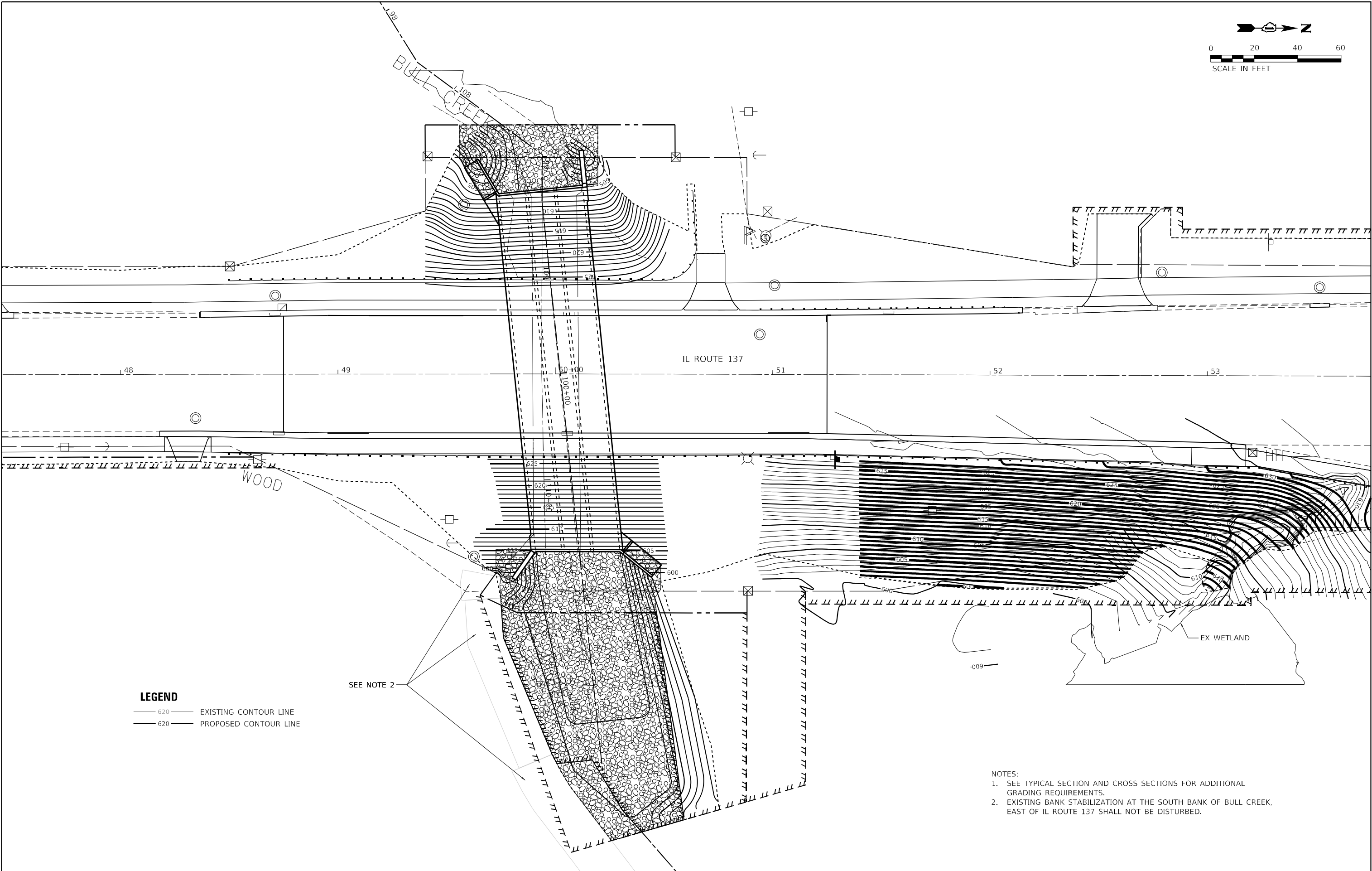
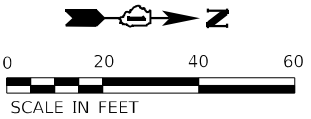
USER NAME = JBergrgren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - JH	REVISED -
PLOT DATE = 4/18/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
DETOUR MAP

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	23
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				



LEGEND

- 620 — EXISTING CONTOUR LINE
— 620 — PROPOSED CONTOUR LINE

- NOTES:
1. SEE TYPICAL SECTION AND CROSS SECTIONS FOR ADDITIONAL GRADING REQUIREMENTS.
2. EXISTING BANK STABILIZATION AT THE SOUTH BANK OF BULL CREEK, EAST OF IL ROUTE 137 SHALL NOT BE DISTURBED.

FILE NAME = Z:\2019\190221 IDOT\193\card\CV\IDOT\193\141-GRADING_01.dgn



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

USER NAME	= kcartopassi
PLOT SCALE	= 1:40
PLOT DATE	= 2/4/2023

DESIGNED	- JWW
DRAWN	- AKW
CHECKED	- KAC
DATE	- 2-2-23

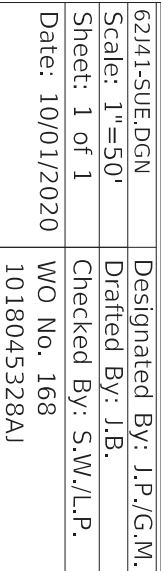
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
PROPOSED GRADING PLAN

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 40+00.00 TO STA. 55+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	24
CONTRACT NO.62141				
ILLINOIS FED. AID PROJECT				



ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B". (A-B) UNLESS OTHERWISE NOTED, ALL B INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOGRAPHICAL METHODS TO IDENTIFY UTILITIES. B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SWEPTED TO APPLICABLE TOLERANCES AND REDUCED ONTO PLAN DOCUMENTS.

UTILITY RECORDS ARE TAKEN TO MEASURE IN THE FIELD AND/OR FROM AVAILABLE UTILITY RECORDS.

ABREVIATIONS:

UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEFICIT REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION LABELED "0-L-C" OR "0-L-P" IS DERIVED FROM FURNISHED RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SAME UTILITY INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SAME UTILITY INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SAME UTILITY INFORMATION MAY NOT BE ACCURATE OR RELIABLE.

ELECTRONIC DEPTH READINGS WERE TAKEN DIRECTLY FROM ELECTRONIC DESIGNATION INSTRUMENTS AND HAVE NOT BEEN VERIFIED BY ANY OTHER MEANS. EQUIPMENT MANUFACTURERS WILL NOT GUARANTEE AND ACCURACY FOR THIS DATA. THEREFORE, THE DEPTH READINGS ARE NOT TO BE USED FOR ANY PURPOSES OTHER THAN AS A GUIDE. THE ACCURACY OF ANY ELECTRONIC DEPTH READINGS

_____E_____E_____E_____	ELECTRIC
_____G_____I_____G_____I_____G_____I_____	GAS
_____UNK_____UNK_____UNK_____UNK_____	UNKNOWN
_____T_____T_____T_____T_____	TELEPHONE
_____W_____I_____W_____I_____W_____I_____	WATER
_____CTV_____CTV_____CTV_____CTV_____	CABLE TV

AT&T LEGAL MANDATE
ENGINEERING
ATTN: URM1 PICONE
1000 COMMERCE DRIVE
OAK BROOK, IL 60523
630-388-3046
UB2591@ATT.COM

COMED
PLANSUBMITTLASANDMAPREQUESTS@EXELONCORP.COM

NORTHSORE GAS COMPANY
(NO RECORDS RECEIVED)
ATTN: MR. JAY HAMMER
3001 GRAND AVE.
WAUKEGAN, IL 60085
847-263-4678
NSGMAPLITILITY@NORTHSOREGASDELIVERY.COM
JAY.A.HAMMER@NORTHSOREGASDELIVERY.COM

CITY OF ZION (NO RECORDS RECEIVED)
ATTN: MR. VICTOR RANSOM
3220 W 27TH STREET
ZION, ILLINOIS 60099
847-746-4054
VICR@ZION.IL.US

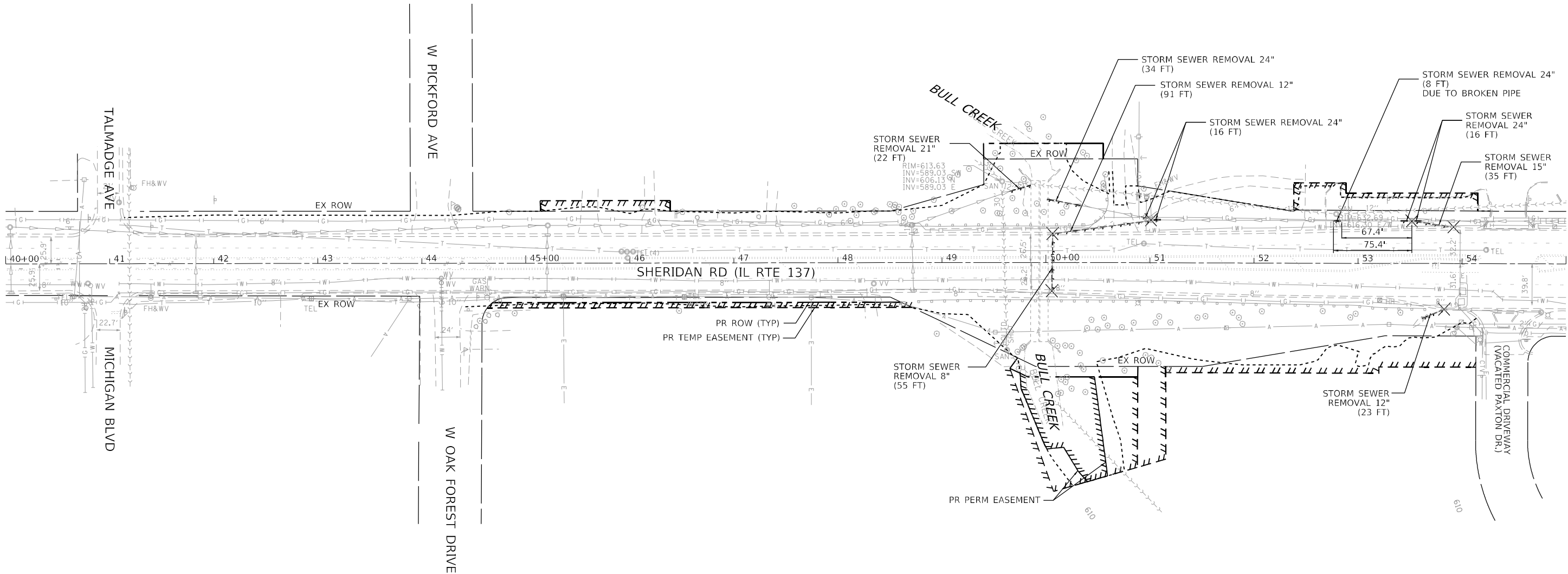
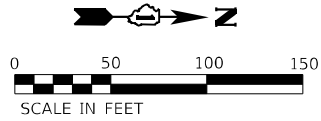


WO# 168 IL137 OVER BULL CREEK					
SCALE: 1"=50'	SHEET 1	OF 1	SHEETS	STA. 41+09	TO STA. 54+30

USER NAME = N/A	DESIGNED - J.P./G.M.	REVISED -
	DRAWN - J.B.	REVISED -
PLOT SCALE = 1"=50'	CHECKED - S.W./L.P.	REVISED -
PLOT DATE = 10/01/2020	DATE - 10/01/2020	REVISED -

LEGEND

- EX STORM SEWER REMOVAL
- EX DRAINAGE STRUCTURE REMOVAL



- NOTES:
1. SEE WATERMAIN REMOVAL PLANS FOR ADDITIONAL UTILITY REMOVAL INFORMATION
 2. EX OVERHEAD UTILITIES ON EAST SIDE IL 137 TO BE RELOCATED BY OTHERS
 3. EX 8" GAS MAIN ON EAST OF IL 137 TO BE RELOCATED BY NSG
 4. EX 6" GAS MAIN ON WEST SIDE OF IL 137 OVER THE BOX CULVERT TO BE TEMPORARILY ABANDONED BY NSG
 5. EX UNDERGROUND TELECOMMUNICATIONS DUCT PACKAGE AND FIBER OPTIC CABLE TO BE TEMPORARILY RELOCATED TO OVERHEAD POLES ALONG PROPOSED WEST ROW OF IL 137 BY ATT
 6. EX. SANITARY SEWERS CROSSING IL 137 ON SOUTH SIDE OF EX CULVERT & CROSSING EX CULVERT ON WEST SIDE OF IL 137 TO BE RELOCATED BY NSWRD

FILE NAME = Z:\2019\190221 IDOT\PTB\193\Kad\Kad\IDOT\162\141-DRAIN REM_01.dgn



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

USER NAME = kcartopassi
PLOT SCALE = 1:100
PLOT DATE = 4/17/2023

DESIGNED - KAC
DRAWN - KAC
CHECKED - JW
DATE - 2-2-23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
DRAINAGE REMOVAL PLAN

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 40+00.00 TO STA. 55+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	26
CONTRACT NO.62141				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NO.	PLOTTED		
NOTE BOOK	ALIGNED		
	CHECKED		
	FILED		
	NO.		

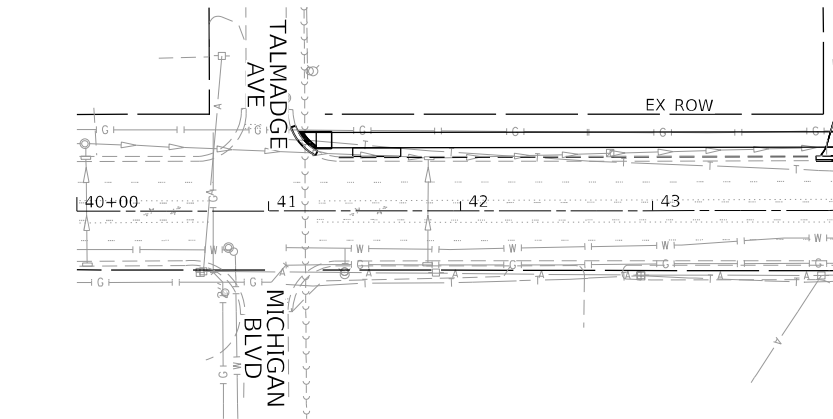
PROFILE	SURVEYED	BY	DATE
NO.	PLOTTED		
NOTE BOOK	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		

FILE NAME = Z:\2020\190221_IDC\PTB\193\card\DWG\SHD\62141-DRAIN_01.dwg

- NOTES:
- SEE DRAINAGE REMOVAL PLAN FOR STORM SEWER REMOVAL ITEMS.
 - IF THE DRAINAGE STRUCTURE IS IN THE CURB & GUTTER, THE OFFSET DISTANCES AND RIM ELEVATIONS ARE TO THE EDGE OF PAVEMENT. IF THE DRAINAGE STRUCTURE IS LOCATED OFF THE PAVEMENT, THE OFFSET DISTANCES AND RIM ELEVATIONS ARE TO THE CENTER OF THE FRAME.
 - SEE WATER MAIN PLANS FOR WATER MAIN CONSTRUCTION DETAILS.
 - CONFLICTING GAS MAIN, TELECOMMUNICATIONS, OVERHEAD UTILITIES, AND NSWRD SANITARY SEWER TO BE RELOCATED BY OTHERS.

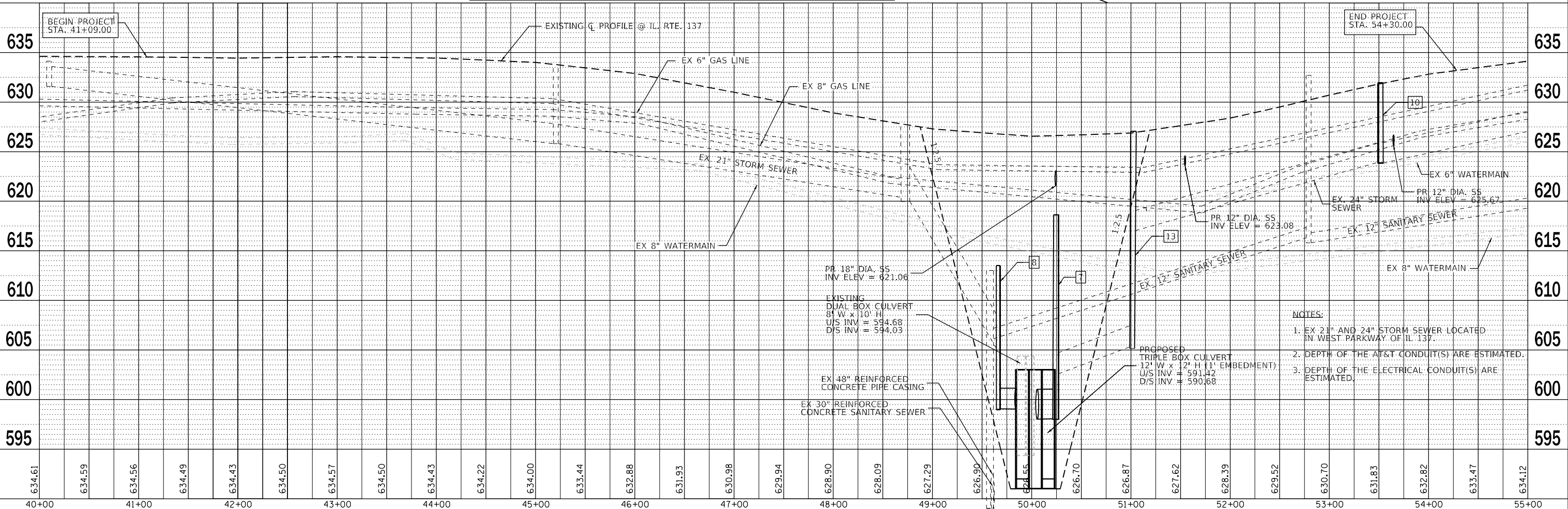
LEGEND

[ADJ] STRUCTURE ADJUSTMENT



STRUCT NUMBER	STATION	OFFSET	STRUCTURE TYPE	RIM ELEV.	INVERT ELEV.
1	49+76.0	27.16' RT.	INLETS TA T24F&G	626.16	N 622.75
2	50+00.0	27.21' RT.	MAN TA 4 DIA T24F&G	626.00	S 622.04; N 621.79
3	50+24.0	27.16' RT.	CB TA 4 DIA T24F&G	626.06	S 621.58; W 621.33
4	49+76.0	26.84' LT.	INLETS TA T24F&G	626.16	N 622.75
5	50+00.0	26.79' LT.	MAN TA 4 DIA T24F&G	626.01	S 622.04; N 621.79
6	50+24.0	26.84' LT.	CB TA 4 DIA T24F&G	626.07	S 621.58; E 620.80; W 602.72
7	50+24.1	56.53' LT.	MAN TA 6 DIA T1F CL	618.63	E 602.47; S 598.05; NE 602.22 (EX.)

STRUCT NUMBER	STATION	OFFSET	STRUCTURE TYPE	RIM ELEV.	INVERT ELEV.
8	49+66.4	68.93' LT.	MAN TA 4 DIA T1F CL	613.50	N 599.07; SE 604.80 (EX.)
9	53+51.6	31.71' LT.	CB TA 4 DIA T1F OL	631.10	NE 625.45; W 625.45
10	53+51.6	40.80' LT.	MAN TA 6 DIA T1F CL	632.44	E 625.40; S 623.53 (EX.); N 623.63 (EX.)
11	51+55.9	27.77' RT.	INLETS TA T24F&G	627.08	W 623.36
12	51+53.3	28.69' LT.	CB TA 4 DIA T24F&G	627.24	E 622.78; SW 622.68
13	51+00.8	41.03' LT.	MAN TA 6 DIA T1F CL	627.03	NE 622.14; NW 617.04 (EX.); SW 604.84 (EX); W 625.04 (EX)
14	53+82.8	42.7' RT.	CB TD 4 DIA T3F&G	631.58	W 625.98; N 625.98 (EX. 12" DIA.)



NOTES:

- EX 21" AND 24" STORM SEWER LOCATED IN WEST PARKWAY OF IL 137.
- DEPTH OF THE AT&T CONDUIT(S) ARE ESTIMATED.
- DEPTH OF THE ELECTRICAL CONDUIT(S) ARE ESTIMATED.

 WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = kcoropassi	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 137 OVER BULL CREEK CULVERT REPLACEMENT PROPOSED DRAINAGE & UTILITY PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	DRAWN - AKW	REVISED -						352	2019-074-SW&I	LAKE	90	27
	PLOT DATE = 4/20/2023	CHECKED - JW	REVISED -		CONTRACT NO.62141								
	DATE - 2-2-23	REVISED -	SCALE: AS SHOWN		SHEET 1 OF 1 SHEETS	STA. 40+00.00 TO STA. 55+00.00	ILLINOIS FED. AID PROJECT						

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

1.

ALL REFERENCES TO STANDARD SPECIFICATIONS IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2021.
2.

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH:

A.

"STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2022:

B.

"SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2022.

C.

LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD)

D.

STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS' JULY 2009 SEVENTH EDITION,

E.

LATEST EDITION OF THE MANUAL OF TEST PROCEDURE OF MATERIALS

F.

"SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS

G.

ALL PERMITS, INCLUDING ARMY CORPS OF ENGINEERS PERMIT, THE NORTH COOK SOIL AND WATER CONSERVATION DISTRICT PERMIT, COUNTY STORMWATER MANAGEMENT PERMIT, THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES PERMIT, AND IDOT HIGHWAY.

H.

THE "NATURAL RESOURCES CONSERVATION SERVICE TECHNICAL GUIDE AND ENGINEERING FIELD MANUAL",

I.

THE "ILLINOIS URBAN MANUAL", AND THE "ILLINOIS URBAN MANUAL FIELD MANUAL FOR INSPECTION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES"

J.

THE "NATIVE PLANT GUIDE FOR STREAMS AND STORMWATER FACILITIES IN NORTHEASTERN ILLINOIS",

K.

AMERICANS WITH DISABILITIES ACT OF 1990 ACCESSIBILITY GUIDELINES

L.

THE "DRAFT" REHABILITATION ACT OF 1973 (SECTION 504), AND THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES

ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE LATEST STANDARDS OF THE DEPARTMENT.

3.

IN THE GENERAL NOTES, ALL REFERENCES TO ENGINEER SHALL BE INTERPRETED AS THE RESIDENT ENGINEER, AND ALL REFERENCES TO CITY AND TO OWNER SHALL BE INTERPRETED AS THE CITY OF ZION.

STAKING

1.

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE CITY, ITS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
2.

PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE INDICATED.

UTILITIES

1.

PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE CITY DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED.
2.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER, AND CABLE TELEVISION FACILITIES. 48 HOURS NOTIFICATION IS REQUIRED.
3.

THE CITY WILL LOCATE EXISTING SANITARY AND WATER SERVICES TO THE INDIVIDUAL RESIDENCES WITHIN THE PROJECTS LIMITS. THESE SERVICES WILL BE LOCATED ONE TIME ONLY. FROM THEN ON THE CONTRACTOR SHALL DOCUMENT AND BE RESPONSIBLE FOR MAINTAINING KNOWLEDGE OF THE LOCATIONS OF THESE SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AS-BUILT KNOWLEDGE OF THE LOCATION (INCLUDING ELEVATIONS) OF THE NEWLY INSTALLED SERVICES AND MAINS. THE CITY WILL NOT BE RESPONSIBLE FOR LOCATING NEW MAINS OR SERVICES FOR THE CONTRACTOR. THIS IS IN EFFECT UNTIL FINAL PAYMENT FROM THE CITY. FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE THE AS-BUILT UNDERGROUND UTILITY INFORMATION AVAILABLE TO THE CITY WHENEVER REQUESTED. IN THE EVENT OF A "JULIE" CALL WITHIN THE PROJECT LIMITS, THE UTILITY OWNER OR ITS AGENT WILL NOTIFY THE CONTRACTOR TO MARK ANY UTILITIES STILL UNDER THE CONTRACTORS RESPONSIBILITY.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE CITY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
5.

THE CONTRACTOR SHALL COOPERATE WITH THE CITY IN ANY UNDERGROUND UTILITY CONSTRUCTION WHICH THE CITY MAY WANT TO HAVE PLACED DURING THE CONTRACTOR'S OPERATIONS.
6.

TRENCH BACKFILL MATERIAL SHALL PLACED IN UNIFORM LAYERS NOT EXCEEDING 12 INCHES (LOOSE MEASURE) AND COMPACTED WITH MECHANICAL EQUIPMENT TO 95% OF STANDARD PROCTOR DENSITY. PIPE BEDDING SHALL BE A MINIMUM OF 4 INCHES THICK.
7.

ALL FRAMES WITH SELF SEALING CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLES, CATCH BASIN, INLET, VALVE VAULT, OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD "STORM". ALL LIDS TO BE USED ON SANITARY SEWER/COMBINED SEWER STRUCTURES SHALL BEAR THE WORD "SANITARY". ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER". ALL CURB BOXES SHALL SAY "DUMP NO WASTE!" OR "DRAINS TO RIVERS" OR SIMILAR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FRAME AND GRATE OR FRAME AND CLOSED LID PROVIDED.
8.

WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.
9.

ALL AUXILIARY VALVES, FRAMES, GRATES, LIDS AND WATER SERVICE BOXES WHICH ARE TO BE ABANDONED OR ADJUSTED WITH A NEW OR DIFFERENT FRAME AND LID SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

10.

ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONSTRUCTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE OWNER.
11.

THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATION OR ADJUSTMENT.
12.

ALL PROPOSED UTILITY STRUCTURES SHALL INCLUDE AN EXTERNAL CHIMNEY SEAL UNLESS THEY FALL IN THE PAVEMENT AND ARE ADJUSTED TO FINAL GRADE WITH CLASS SI CONCRETE OR BITUMINOUS SURFACE OR BINDER FULLY COVERING THE RINGS AND CASTING. THE COST OF THE CHIMNEY SEAL SHALL BE CONSIDERED INCLUDED IN THE COST OF THE UTILITY STRUCTURE BEING INSTALLED.
13.

COORDINATE WITH ALL UTILITY COMPANIES TO SUPPORT, PROTECT, OR REMOVE AND REPLACE ALL POWER POLES OR POWER POLE ANCHORS THAT ARE AFFECTED BY CONSTRUCTION, EVEN WHERE SUPPORT IS NOT INDICATED ON THE PLAN SHEETS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST FOR THE INSTALLATION OF THE IMPROVEMENTS.
14.

NOT ALL GAS, POWER OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE PLANS. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATERMANS, SEWERS, FIELD TILES, ETC., AS SHOWN ON THE PLANS, HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR MUST ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATIONS OF THE UTILITIES SHOWN MAY BE DIFFERENT THAN INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE CONTRACTORS SHALL CALL JULIE AT 800/892-0123 FOR UTILITY LOCATIONS.

STORM & SANITARY SEWER

1.

THE COST OF MAKING SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE BEING CONSTRUCTED.
2.

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY OPERATIONS. COMPLIANCE WITH THE ABOVE WILL BE INCLUDED IN THE COST OF THE ASSOCIATED UTILITY INSTALLATIONS.
3.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLAN, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.
4.

ALL ABANDONED PIPE AND STRUCTURE INVERTS SHALL BE PLUGGED WITH BRICK AND MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE STORM OR SANITARY SEWER ITEMS BEING REMOVED.
5.

THE CONTRACTOR SHALL DETERMINE WHEN FLAT SLAB TOPS ARE REQUIRED ON MANHOLES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE USE OF FLAT SLAB TOPS.
6.

RIM ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES OF ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE, ADJUSTMENT OR RECONSTRUCTION COST.
7.

IN THE EVENT THAT TRAFFIC CANNOT BE MAINTAINED, STEEL PLATES MAY BE USED TO COVER OPEN TRENCHES.
8.

ADJUST MANHOLE OR VAULT RIM ELEVATIONS TO FINAL GRADE AT TIME OF FINAL PAVING OR LANDSCAPING. ADJUSTMENT OF NEW STRUCTURES TO FINAL GRADE IS INCLUDED IN THE COST OF THE NEW STRUCTURE REGARDLESS OF THE AMOUNT OF TIMES THE ADJUSTMENT MUST BE MADE.
9.

COMPLY WITH THE METROPOLITAN WATER RECLAMATION DISTRICT (MWRD) MINIMUM PROJECT AND MANHOLE STRUCTURE REQUIREMENTS.
10.

ALL TRENCH BACKFILL QUANTITIES FOR STORM AND SANITARY SEWER AND WATER MAIN HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE IDOT DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON THE INVERT DEPTH FROM PROPOSED PAVEMENT.
11.

ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED IN THE TRENCH BACKFILL TABLE, INCLUDING BEDDING MATERIAL, SHALL BE INCLUDED IN THE COST OF THE ITEM BEING INSTALLED.
12.

WATER MAIN-QUALITY SEWERS IDENTIFIED ON THE PLANS AS BEING PVC SHALL BE PER ASTM D-2241 WITH JOINTS ASTM D-3139

PAVING AND CURB & GUTTER

1.

THE CONTRACTOR SHALL SAW CUT PAVEMENT, CURB & GUTTER, AND SIDEWALK AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

MISCELLANEOUS

1.

DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
2.

PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, THE WORK IS NOT REQUIRED, THE ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

3.

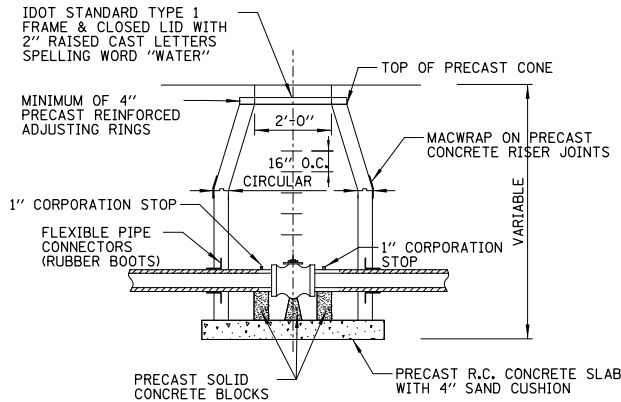
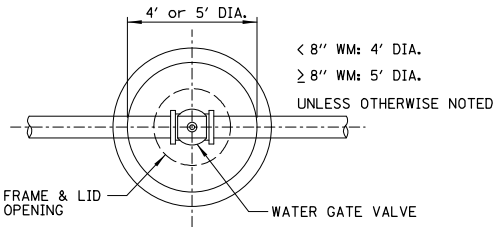
COMPLY WITH ALL RULES AND REGULATIONS OF OSHA DURING CONSTRUCTION OF IMPROVEMENTS AND RESTORATION. THE CITY NOR ITS APPOINTED FIELD ENGINEER SHALL BE RESPONSIBLE FOR THE CONTRACTOR'S COMPLIANCE WITH OSHA.
4.

WHENEVER THE CONTRACTOR ENCOUNTERS FACILITIES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATIONS, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THESE UTILITIES. CITY PERSONAL (ELECTRICAL SUPERINTENDENT, WATER AND SEWER SUPERINTENDENT) AND PRIVATE UTILITY COMPANIES ARE TO BE NOTIFIED BY THE CONTRACTOR BEFORE ACTUAL START OF CONSTRUCTION AT EACH LOCATION. MAXIMUM 48 HOURS IN ADVANCE. THE CITY PERSONNEL CAN BE REACHED AT 847-746-4050. CALL JULIE AT 1-800-892-0123. BEACH PARK PUBLIC WORKS CAN ALSO BE REACHED AT 847-746-1770.
5.

THE CONTRACT DOCUMENTS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DOCUMENTS IS TO ILLUSTRATE THE DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DOCUMENTS AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DOCUMENTS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO IDOT AND THE CITY.

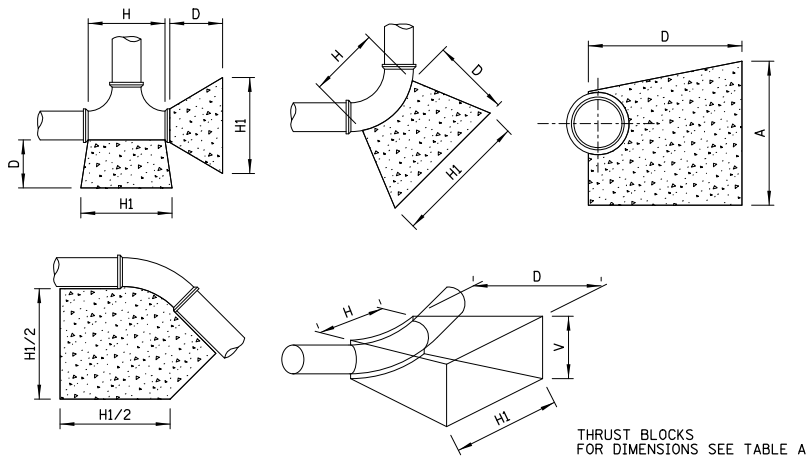
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Default	PLOT SCALE 20'	CHECKED -	REVISED -						CONTRACT NO. 62J41			
		PLOT DATE= 3/9/2022	DATE -	REVISED IDOT REVISIONS	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT





NOTE:
THE CONTRACT UNIT PRICE FOR VALVE VAULTS, TYPE A SHALL INCLUDE THE FRAME AND CLOSED LID. PRECAST REINFORCED CONCRETE RISERS ARE TO BE LAID IN MASTIC JOINTS WITH FLUSH JOINTS. VALVE VAULTS MUST INCLUDE A RUBBER BOOT AND MAC WRAP. FURNISHING AND INSTALLING SAND CUSHION TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR VALVE VAULT, TYPE A. VALVE VAULTS SHALL INCLUDE CAST IRON STEPS WHICH WILL BE INCIDENTAL TO THE VALVE VAULT.

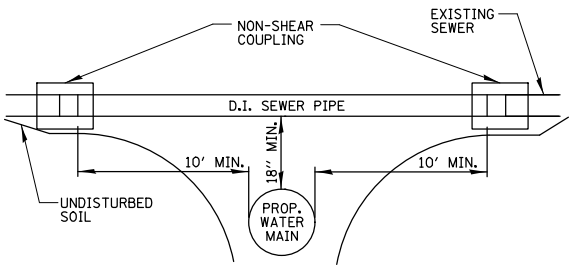
STANDARD TYPE "A" VALVE VAULT



SIZE OF PIPE	TAPPING TEES, SLEEVES AND PLUGS					90° BENDS					45° BENDS OR LESS				
	H1	H	V	D	C. FT.	H1	H	V	D	C. FT.	H1	H	V	D	C. FT.
12"	54"	30"	24"	24"	13.40	54"	32"	36"	36"	18.15	42"	18"	24"	24"	9.60
8"	36"	18"	18"	18"	5.05	39"	18"	24"	18"	7.50	30"	11"	18"	18"	3.95
6"	24"	16"	18"	18"	3.50	30"	16"	18"	18"	4.05	24"	10"	16"	18"	3.20
4"	20"	13"	15"	15"	2.15	24"	12"	13"	13"	1.75	20"	8"	12"	12"	1.20

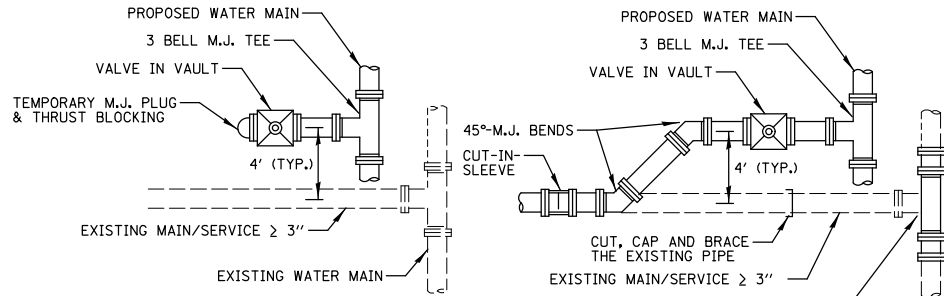
WATER MAIN THRUST BLOCKING – TABLE A

NOTE:
THRUST BLOCKING TO BE INSTALLED AT ALL HORIZONTAL AND VERTICAL BENDS, CAPS, VALVES, HYDRANTS AND AT LOCATIONS DIRECTED BY ENGINEER. THRUST BLOCK TO BE READY MIXED PORTLAND CEMENT CONCRETE, PLACED BETWEEN SOLID GROUND AND FITTING OR PRECAST SOLID CONCRETE BLOCK, AND SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTING WILL BE ACCESSIBLE FOR REPAIR. ALL ENDS OD 11 1/4" OR MORE, ALL TEES AND ALL PLUGS SHALL BE PROTECTED AS SHOWN. WHERE CONDITIONS PREVENT THE USE OF CONCRETE THRUST BLOCKS, RESTRAINED JOINTS OF A TYPE APPROVED BY THE ENGINEER MAY BE USED.



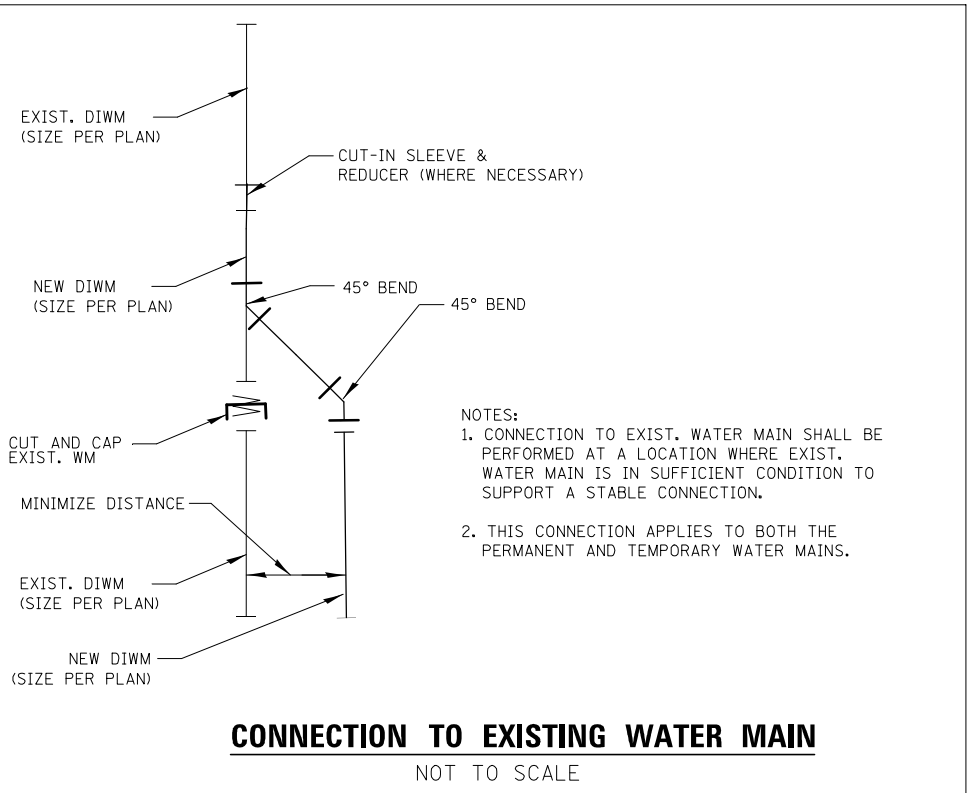
NOTES:
1. USE AT LOCATIONS INDICATED ON PLANS OR AS OTHERWISE DIRECTED BY ENGINEER.

SPECIAL SEWER CROSSING REPLACEMENT DETAIL (SERVICE AND MAINLINE)

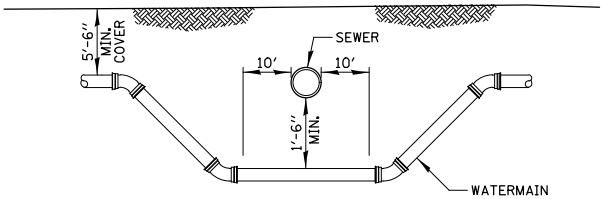


- NOTES:
- AFTER THE EXISTING WATER MAIN OR SERVICE IS CUT AT THE NOTED LOCATION, CONTRACTOR SHALL DETERMINE THE DISTANCE TO THE NEXT JOINT WITH A FEELER ROD. IF THE DISTANCE IS SIX (6) FEET OR MORE, THAN COMPLETE THE CONNECTION IF THAT DISTANCE IS LESS THAN SIX (6) FEET, EXTEND THE NEW PIPE AND CONNECT.
 - AFTER THE NEW WATER MAIN IS APPROVED, CUT, CAP AND BRACE THE EXISTING MAIN SERVICE. REMOVE TEMPORARY PLUG AND CONNECT MAIN SERVICE TO THE VALVE. SWAB THE NEW PIPE WITH 1% HTH CHLORINE SOLUTION DURING THE INSTALLATION.
 - MEGALUGS TO BE USED WITH ALL M.J. FITTINGS.

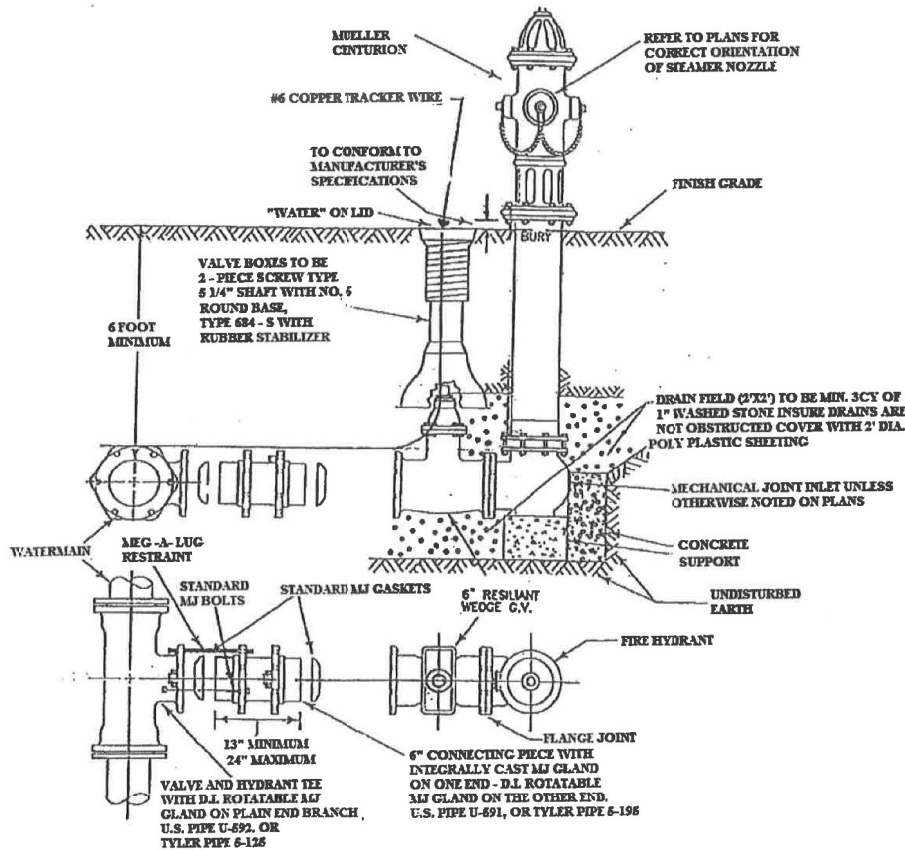
WATER MAIN /SERVICE INSTALLATION AND RECONNECTION



- NOTES:
- CONNECTION TO EXIST. WATER MAIN SHALL BE PERFORMED AT A LOCATION WHERE EXIST. WATER MAIN IS IN SUFFICIENT CONDITION TO SUPPORT A STABLE CONNECTION.
 - THIS CONNECTION APPLIES TO BOTH THE PERMANENT AND TEMPORARY WATER MAINS.



WATERMAIN CROSSING BELOW SEWER

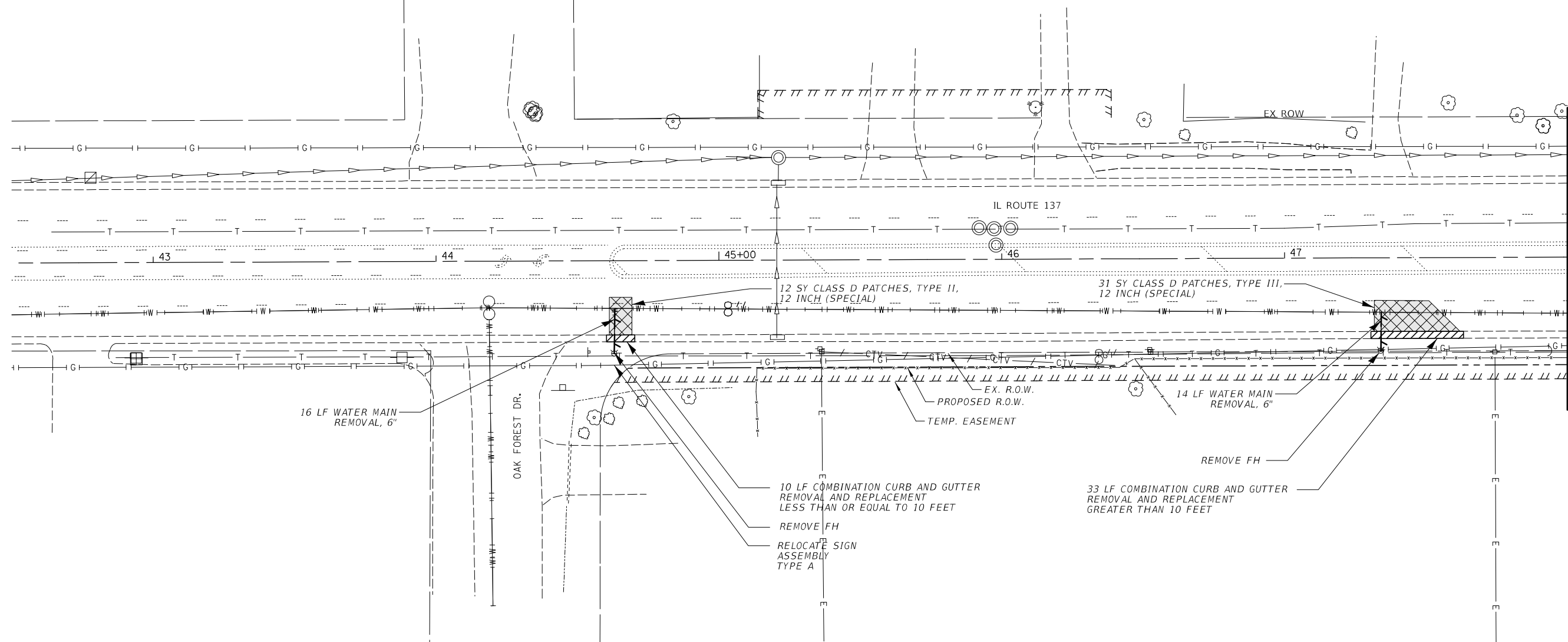


TYPICAL HYDRANT INSTALLATION

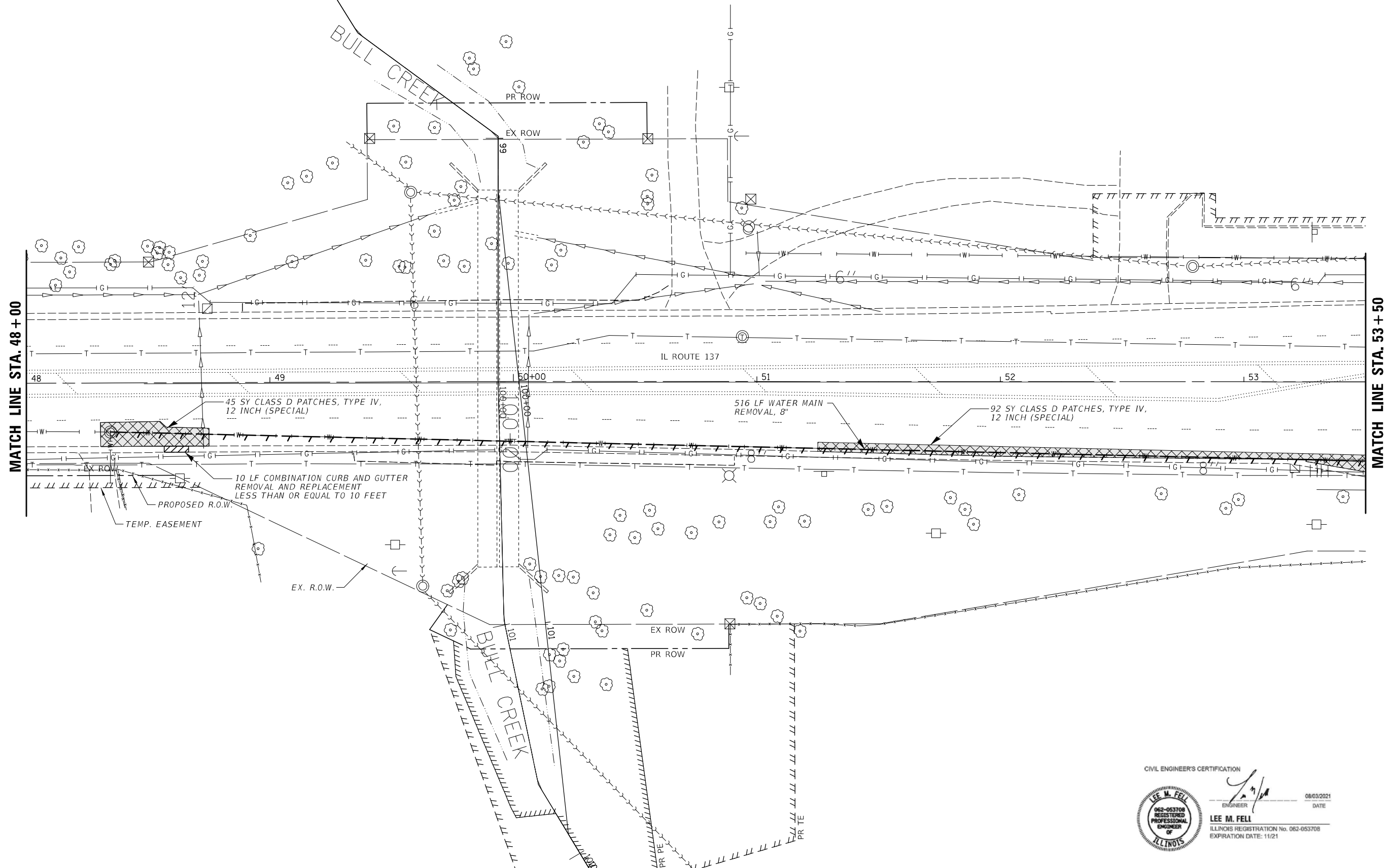
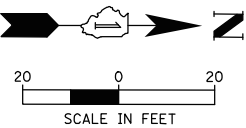
NOTE: ALL HYDRANTS SHALL BE PAINTED RED

CIVIL ENGINEER'S CERTIFICATION
LEE M. FELL
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
062-053708
EXPIRATION DATE: 11/21
08/03/2021
DATE

FILE NAME=	USER NAME= wbioftus	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION DETAILS				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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	PLOT DATE= 3/9/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT



FILE NAME=	USER NAME= khunt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING CONDITIONS AND REMOVAL PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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CIVIL ENGINEER'S CERTIFICATION

LEE M. FELL
062-053708
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

08/03/2021
DATE

LEE M. FELL
ILLINOIS REGISTRATION No. 062-053708
EXPIRATION DATE: 11/21

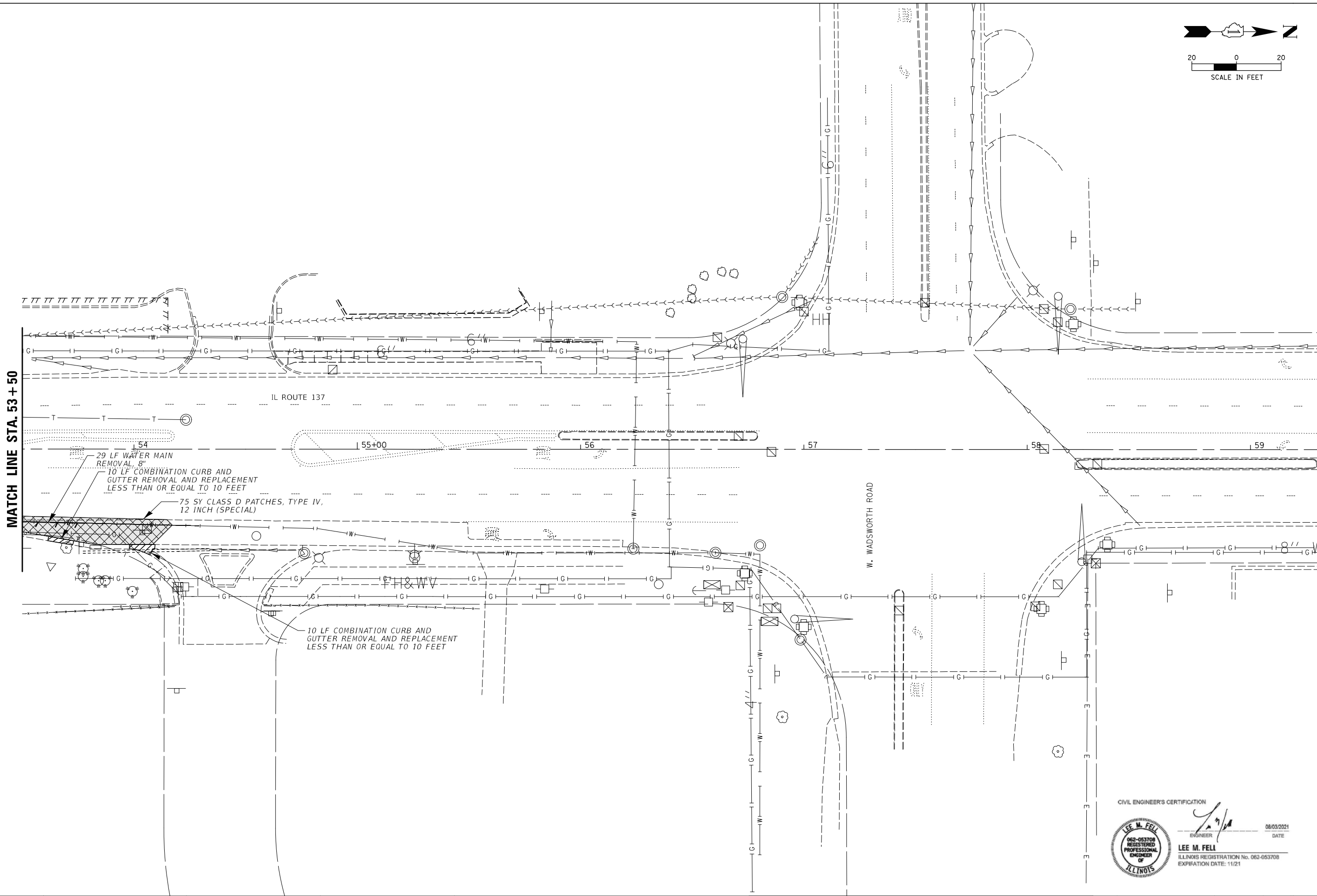
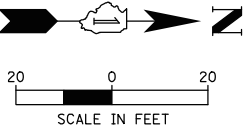
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	PLOT DATE= 4/5/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62J41				
ILLINOIS		FED. AID PROJECT		

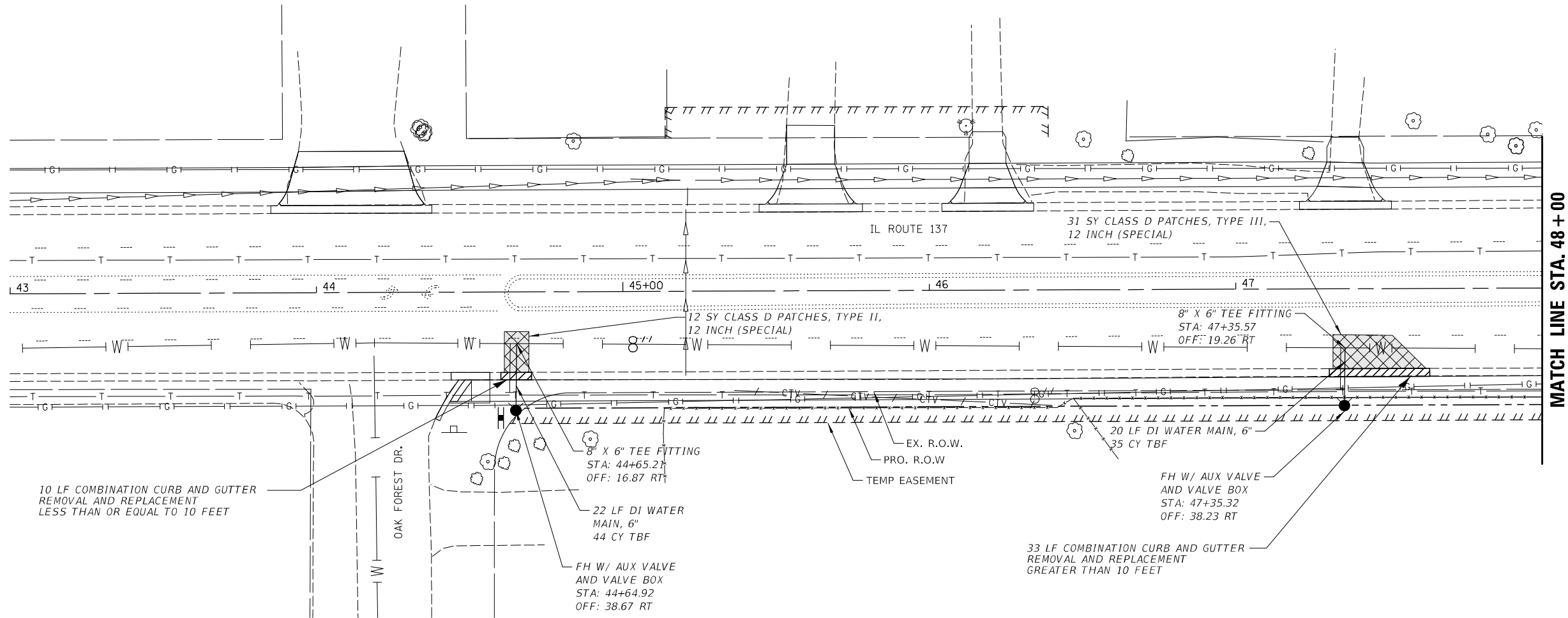
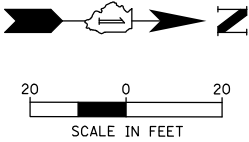


CIVIL ENGINEER'S CERTIFICATION

  06/03/2021
ENGINEER DATE

LEE M. FELL
ILLINOIS REGISTRATION No. 062-053708
EXPIRATION DATE: 11/21

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							SCALE:		SHEET	OF	SHEETS	STA.	TO STA.



CIVIL ENGINEER'S CERTIFICATION

062-053708
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

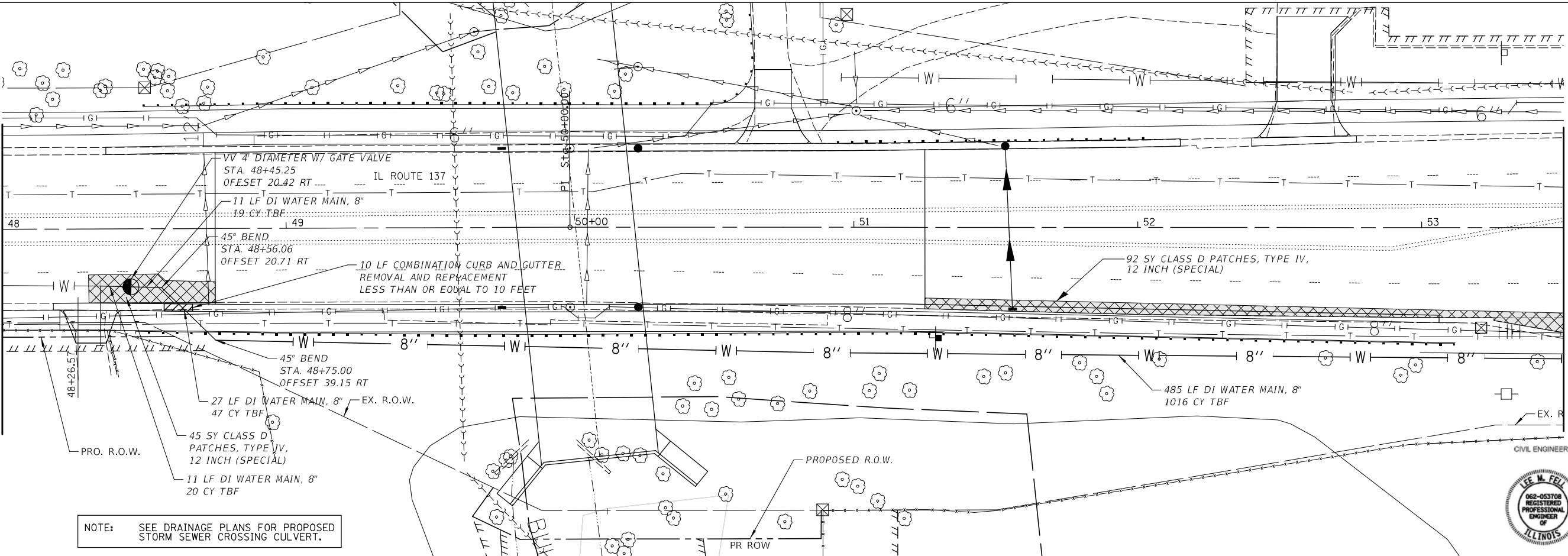
LEE M. FELI
ILLINOIS REGISTRATION No. 062-053708
EXPIRATION DATE: 11/21

08/03/2021
DATE

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PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
ALIGNED	CHECKED		
FILE NAME	FILE NAME		

MATCH LINE STA. 48+00



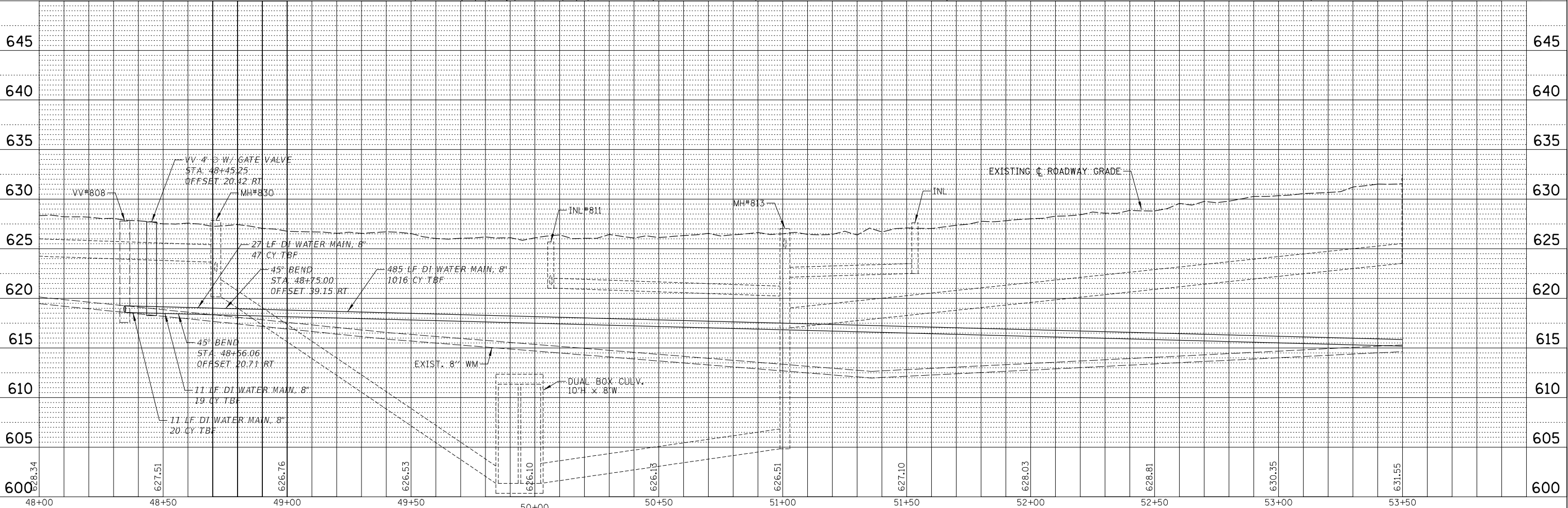
MATCH LINE STA. 53+50

CIVIL ENGINEER'S CERTIFICATION



ENGINEER
LEE M. FELL
ILLINOIS REGISTRATION No. 062-053708
EXPIRATION DATE: 11/21
08/03/2021
DATE

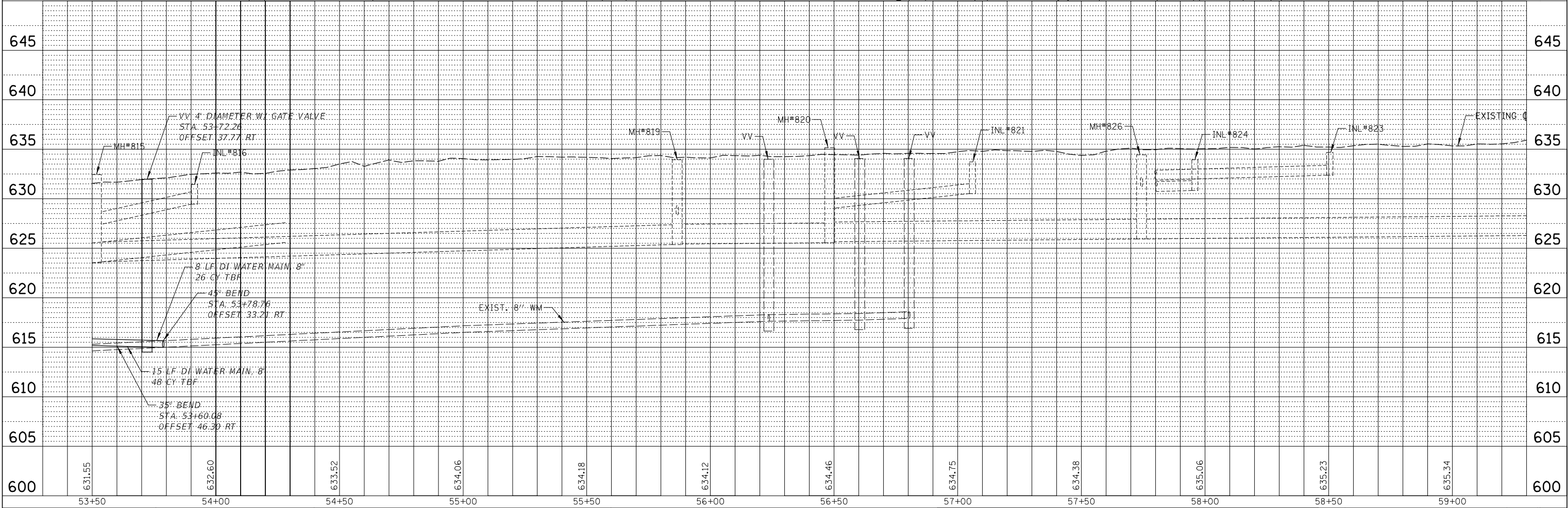
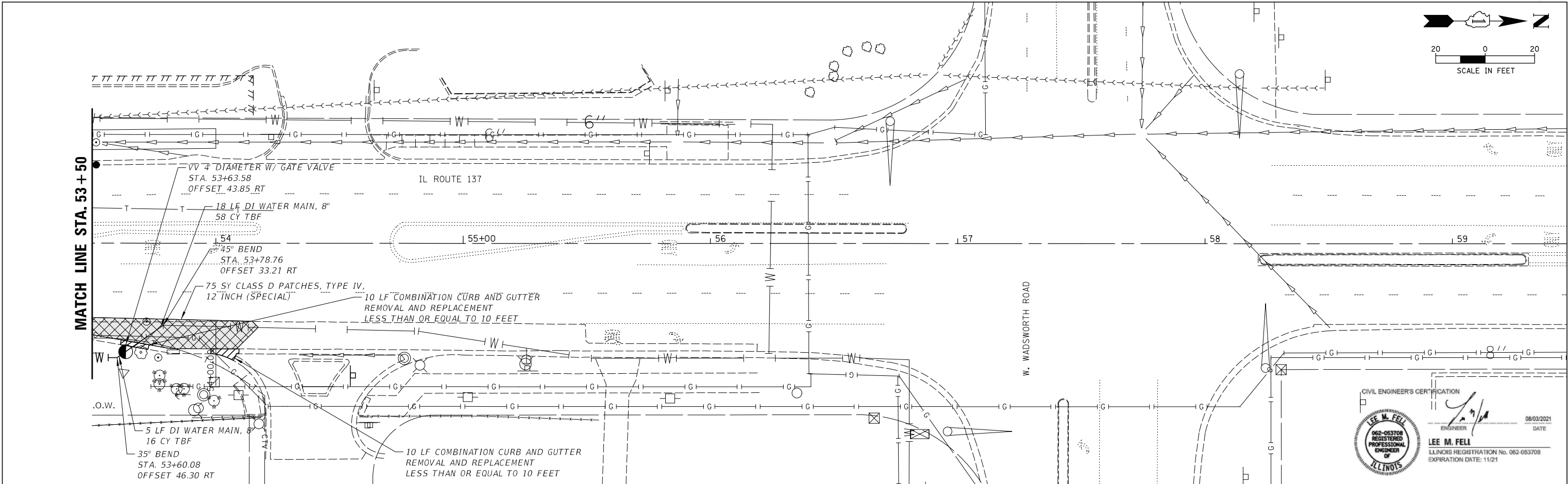
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		DRAWN -	REVISED -			352	2019-074-SW&I	LAKE	90	34
	PLOT SCALE = 20'	CHECKED -	REVISED -			CONTRACT NO. 62J41				
	PLOT DATE = 4/5/2023	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	CHECKED		
	FILE NAME		

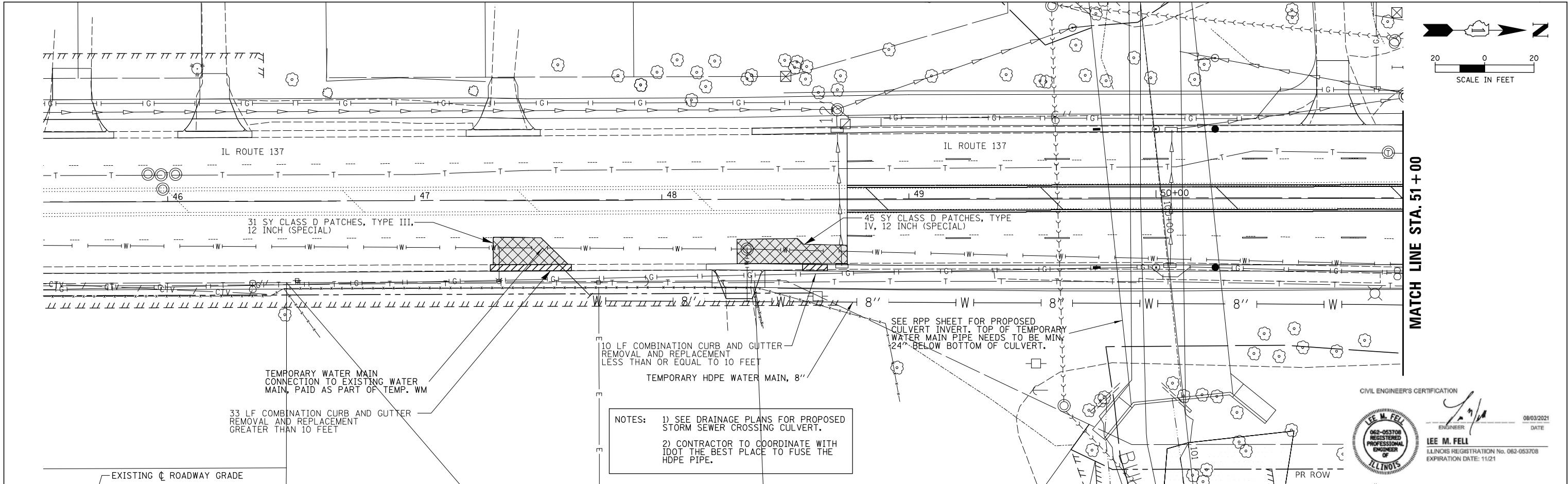
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NOTE BOOK	PLOTTED		
NO.	CHECKED		
	STRUCTURE	NOTATION	CHNO



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N:\ZION\210265\Civil\prf_02_210265.sht		DRAWN -	REVISED -							352	2019-074-SW&I	LAKE	90	35
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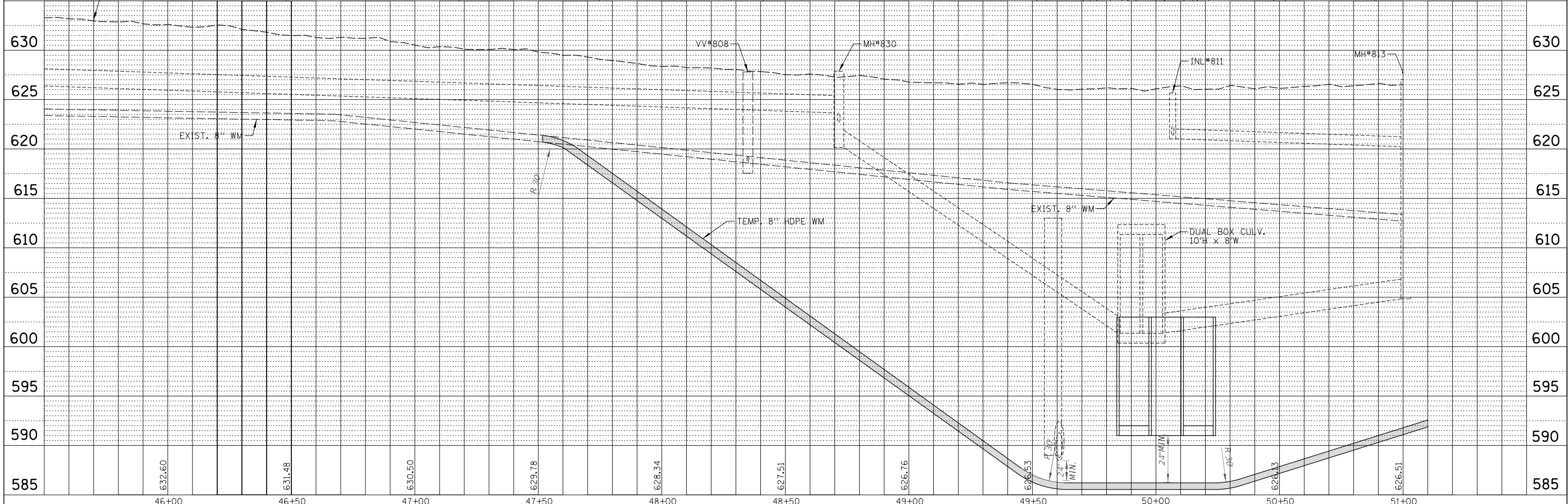
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PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATION		



NOTES: 1) SEE DRAINAGE PLANS FOR PROPOSED STORM SEWER CROSSING CULVERT.
2) CONTRACTOR TO COORDINATE WITH IDOT THE BEST PLACE TO FUSE THE HDPE PIPE.

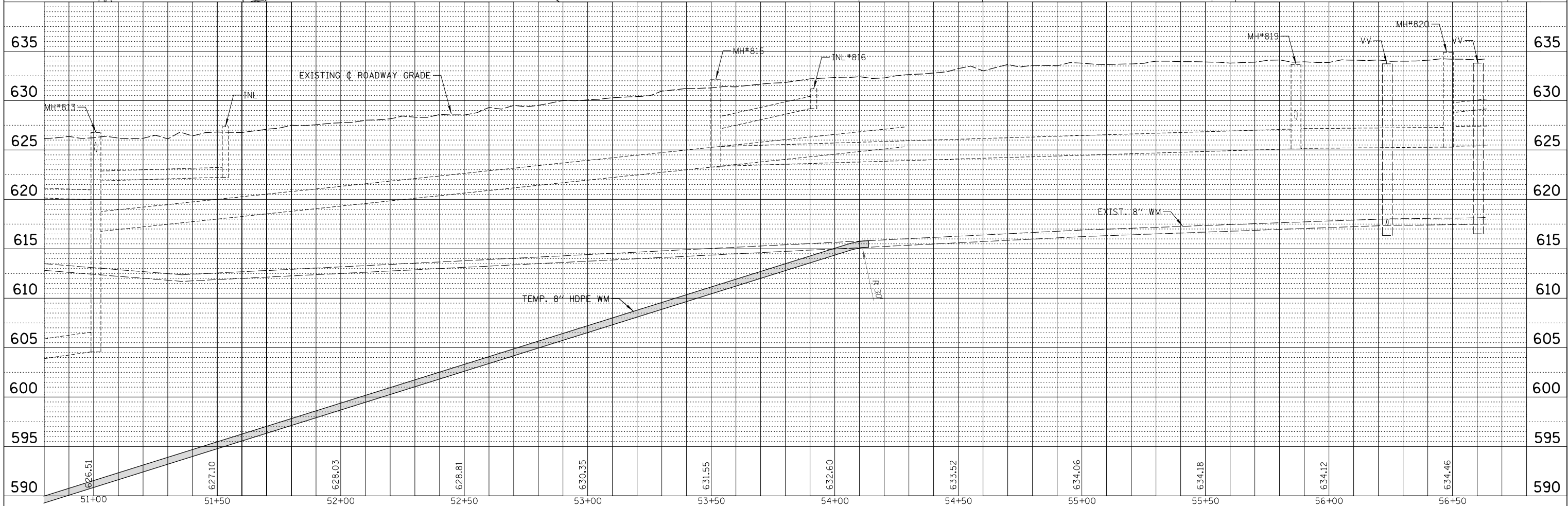
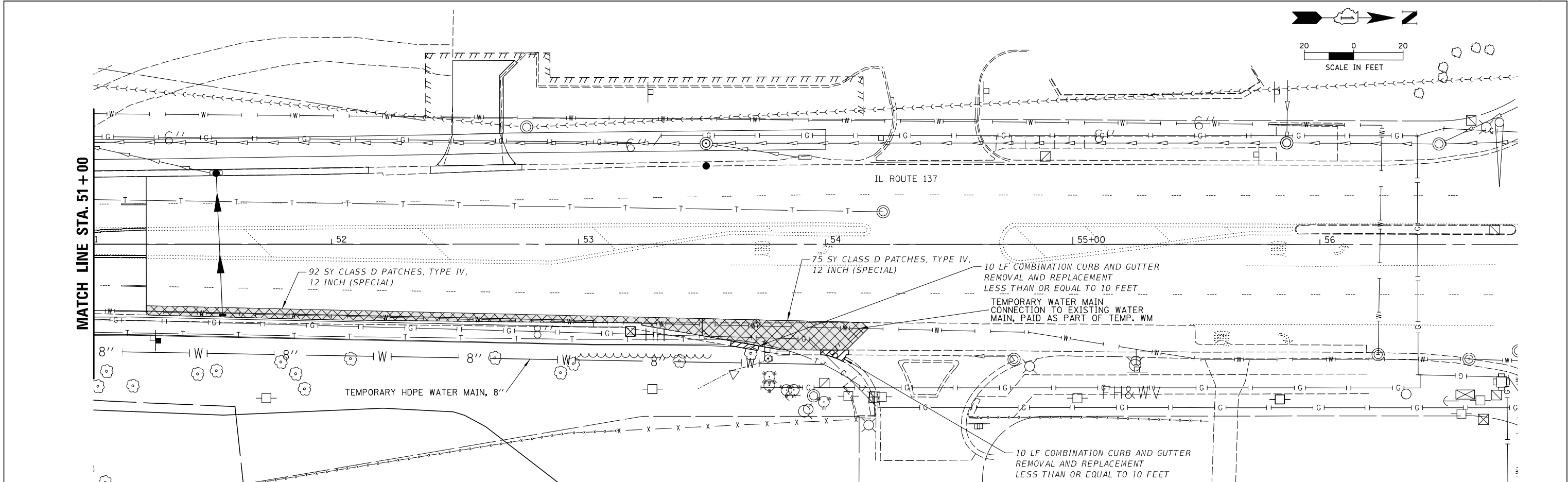
CIVIL ENGINEER'S CERTIFICATION
LEE M. FELL
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
ILLINOIS REGISTRATION No. 062-053708
EXPIRATION DATE: 11/21
08/03/2021
DATE



FILE NAME =	USER NAME = khunt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY WATER MAIN PLAN AND PROFILE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 4/5/2023	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	STRUCTURE NOTATION CHNO		



FILE NAME =	USER NAME = khunt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY WATER MAIN PLAN AND PROFILE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\ZION\210265\Civil\Temp_prf_02.210265.sh		DRAWN -	REVISED -						352	2019-074-SW&I	LAKE	90	37
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	PLOT DATE = 4/5/2023	DATE -	REVISED -										
				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.				

FILE NAME = Z:\2019\190221 IDOT\PTB193\cad\Civil\Drawings\ID162\4141-EROS_01.dgn

- LAKE COUNTY STORMWATER MANAGEMENT COMMISSION SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES**
- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- C. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- D. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- E. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- F. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- G. SLOPES STEEPER THAN 1V:3H SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- H. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- I. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- J. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- K. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED.
- L. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BEMAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.

LAKE COUNTY DIVISION OF TRANSPORTATION SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES

- A. ANY SEDIMENT OR SOIL TRACKED OFF THE SITE SHALL BE REMOVED BY SCRAPING OR STREET SWEEPING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ALL EXISTING AREAS (TO REMAIN) AFFECTED BY CONSTRUCTION ACTIVITIES, EQUIPMENT, OR LABORERS TO THE ORIGINAL UNDISTURBED CONDITIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL THE COMPLETION OF THE CONTRACT.
- C. PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS AT 1 FOOT OUTSIDE THE TOE OF SLOPE OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION.
- D. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE PERIMETER EROSION BARRIER REMOVAL SHALL BE RESTORED. THE RESTORATION OF THE AREA DISTURBED BY THE PERIMETER EROSION BARRIER REMOVAL SHALL BE INCLUDED IN THE PAY ITEM OF PERIMETER EROSION BARRIER.
- E. ALL SEEDED AREAS SHALL BE COVERED WITH EROSION CONTROL BLANKET

SOIL EROSION CONTROL CONSTRUCTION NOTES

1. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT: (<http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control>).
2. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
4. THE CONTRACTOR SHOULD PROVIDE TO THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
5. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
8. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RE.
9. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.

WBK

ENGINEERING

WBK ENGINEERING, LLC

116 WEST MAIN STREET, SUITE 201

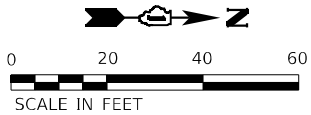
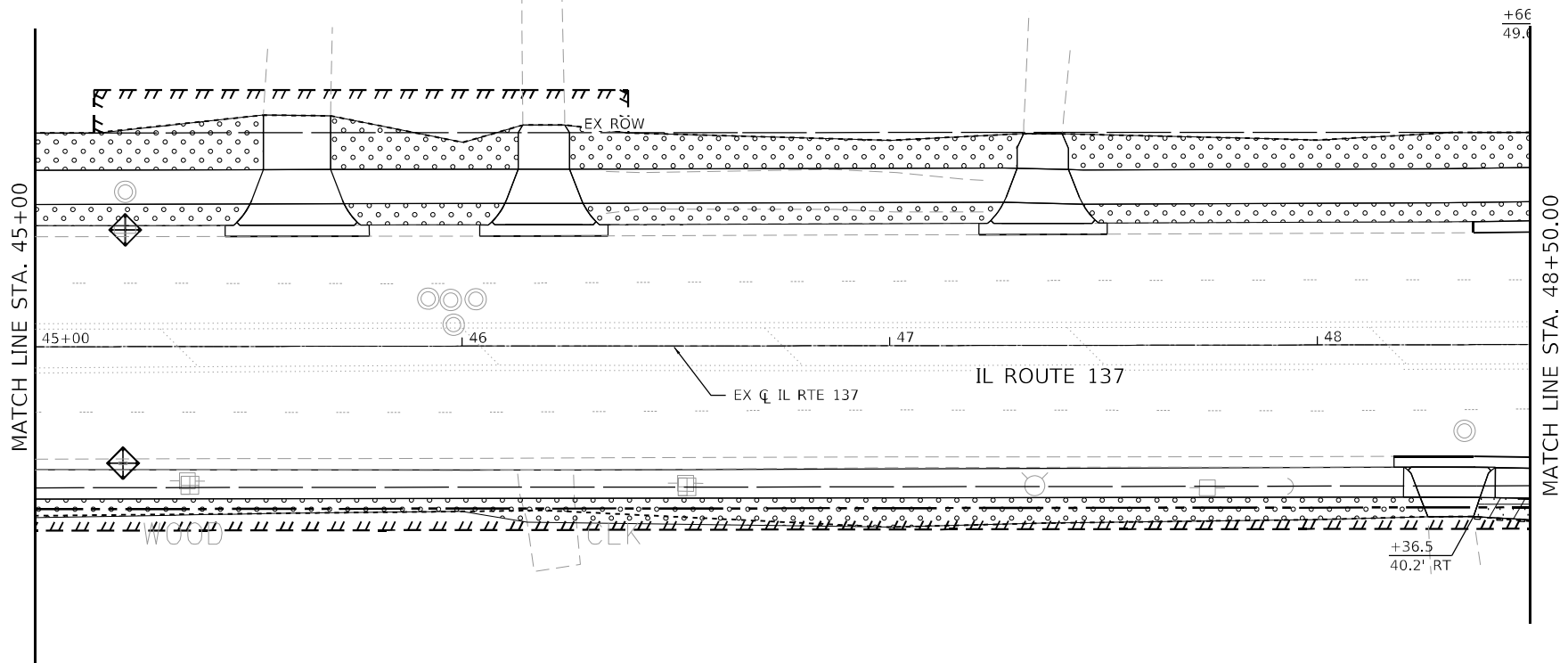
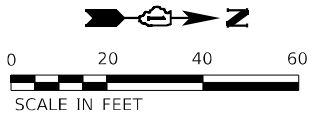
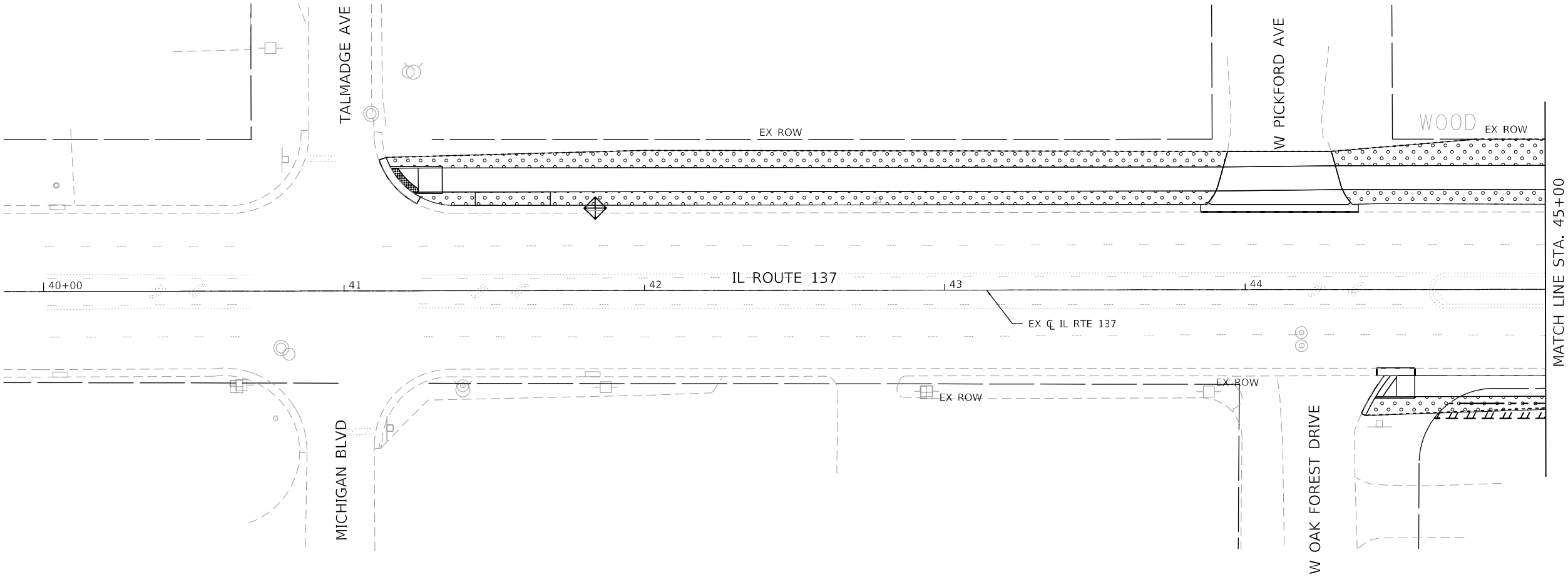
ST. CHARLES, ILLINOIS 60174

(630) 443-7755

USER NAME = kcortopassi	DESIGNED - KAC	REVISED -
	DRAWN - AKW	REVISED -
PLOT SCALE = 1:100	CHECKED - YOO	REVISED -
PLOT DATE = 2/4/2023	DATE - 2-2-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EROSION CONTROL NOTES		352	2019-074-SW&I	LAKE	90	38
SCALE: AS SHOWN		SHEET 1 OF 1 SHEETS		STA. 40+00.00 TO STA. 55+00.00		ILLINOIS FED. AID PROJECT



LEGEND

|||||

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LIMITS OF CONSTRUCTION

EXISTING RIGHT OF WAY (EX ROW)

PROPOSED RIGHT OF WAY (PR ROW)

PROPOSED PERMANENT EASEMENT (PR P.E.)

PROPOSED TEMPORARY EASEMENT (PR T.E.)

SEEDING, CLASS 2A & EROSION CONTROL BLANKET

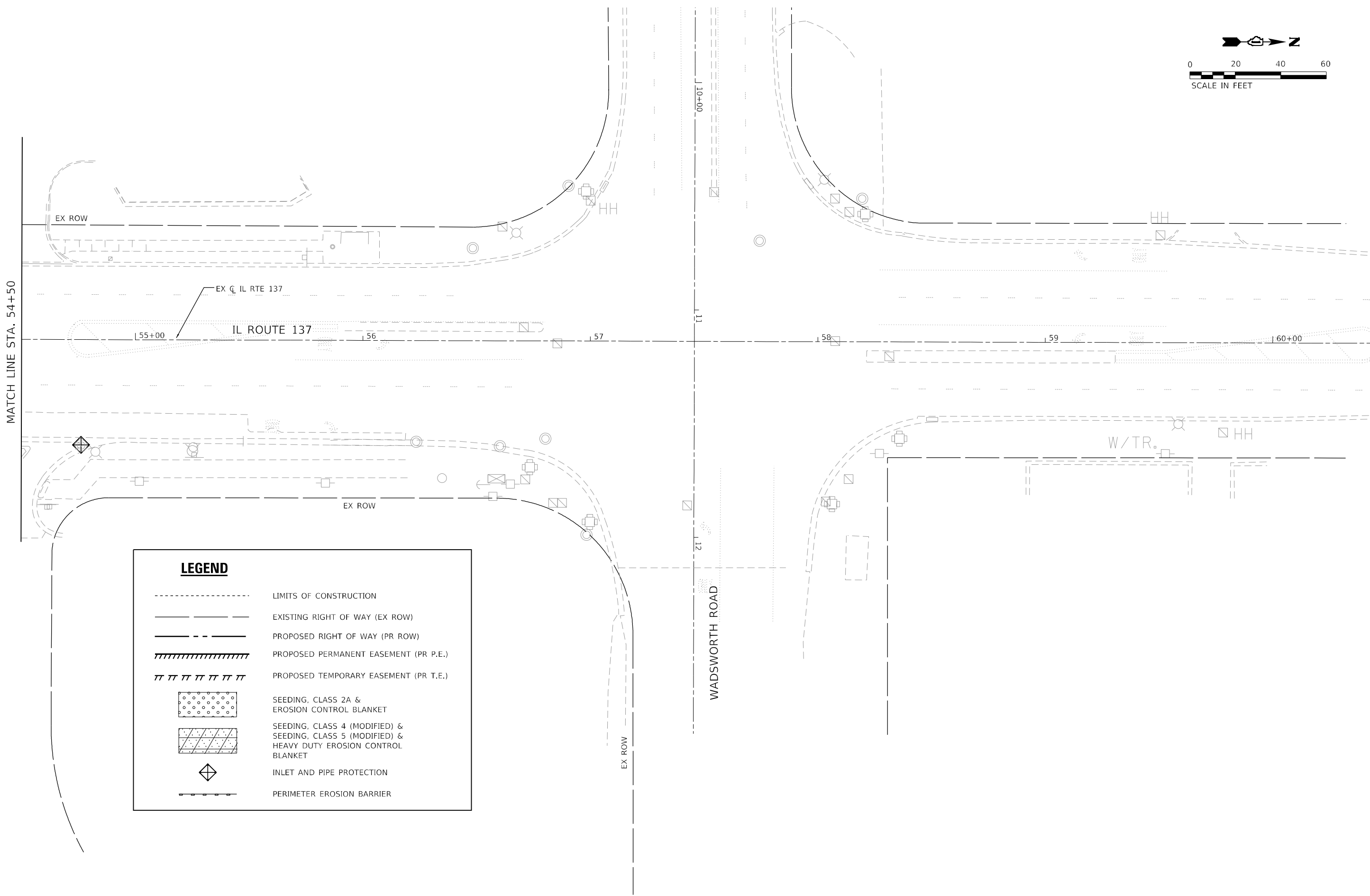
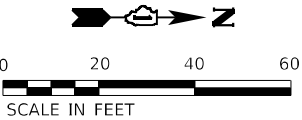
SEEDING, CLASS 4 (MODIFIED) & SEEDING, CLASS 5 (MODIFIED) & HEAVY DUTY EROSION CONTROL BLANKET

INLET AND PIPE PROTECTION

PERIMETER EROSION BARRIER

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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 -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 137 OVER BULL CREEK CULVERT REPLACEMENT		F.A.P. RTE. = 352	SECTION = 2019-074-SW&I	COUNTY = LAKE	TOTAL SHEETS = 90	SHEET NO. = 39
	PLOT SCALE = ---		DRAWN - AKW	REVISED -		EROSION CONTROL AND LANDSCAPING PLAN				CONTRACT NO. 62141		
	PLOT DATE = 2/4/2023		CHECKED - YOO	REVISED -		SCALE: AS SHOWN		SHEET 1 OF 3 SHEETS		STA. 40+00.00 TO STA. 48+50.00		ILLINOIS FED. AID PROJECT
			DATE - 2-2-23	REVISED -								



LEGEND

LIMITS OF CONSTRUCTION

EXISTING RIGHT OF WAY (EX ROW)

PROPOSED RIGHT OF WAY (PR ROW)

PROPOSED PERMANENT EASEMENT (PR P.E.)

PROPOSED TEMPORARY EASEMENT (PR T.E.)

SEEDING, CLASS 2A & EROSION CONTROL BLANKET

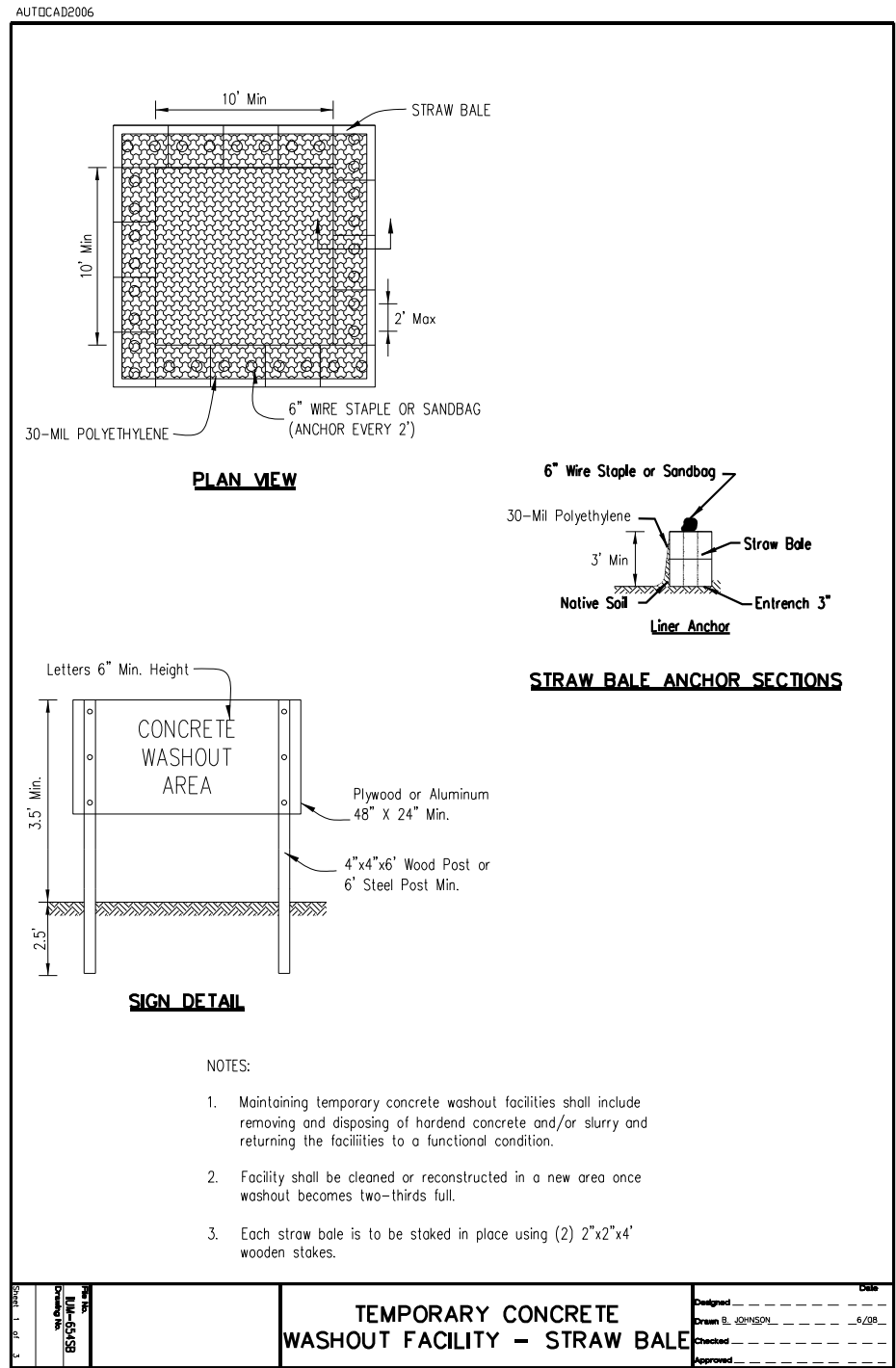
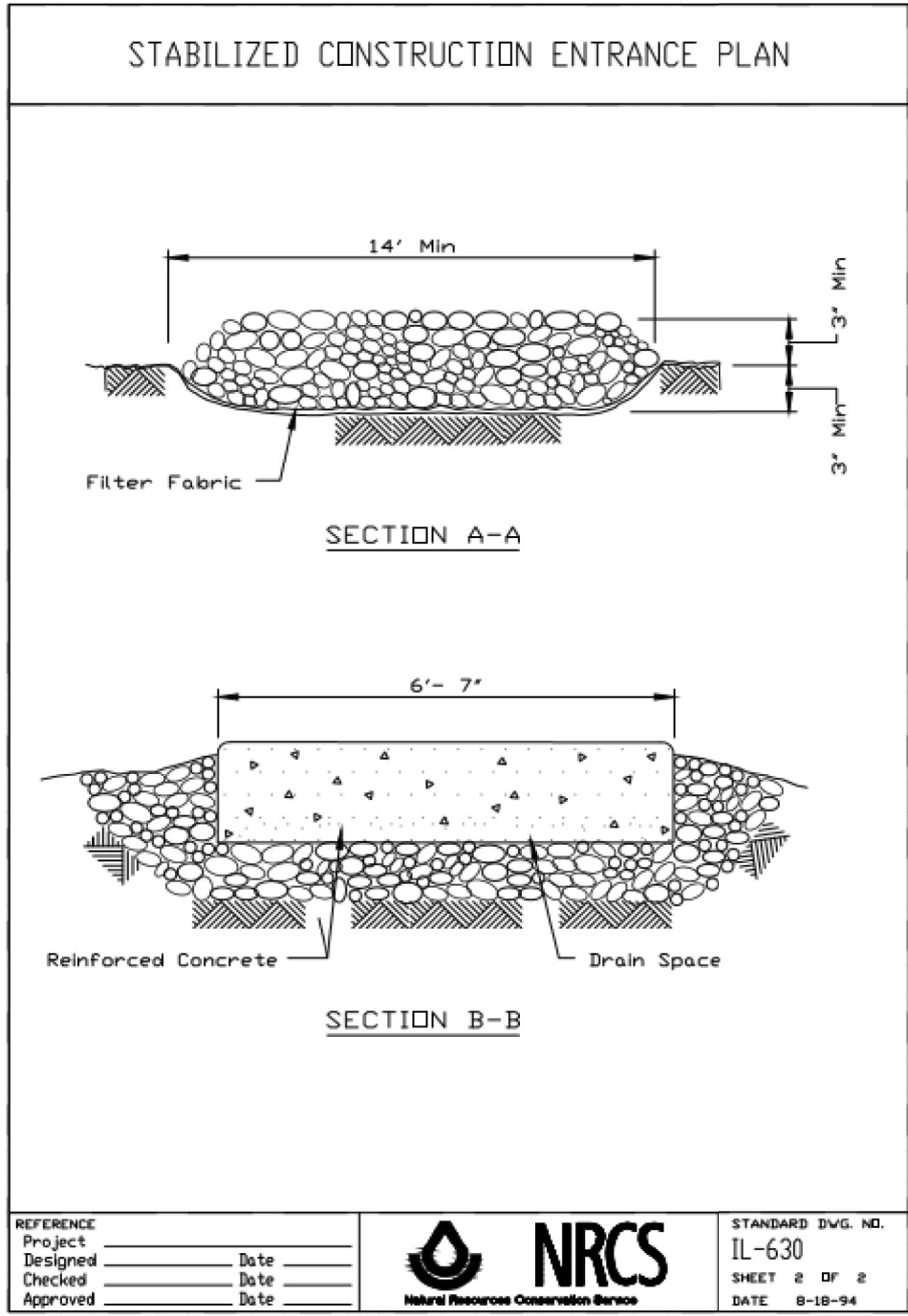
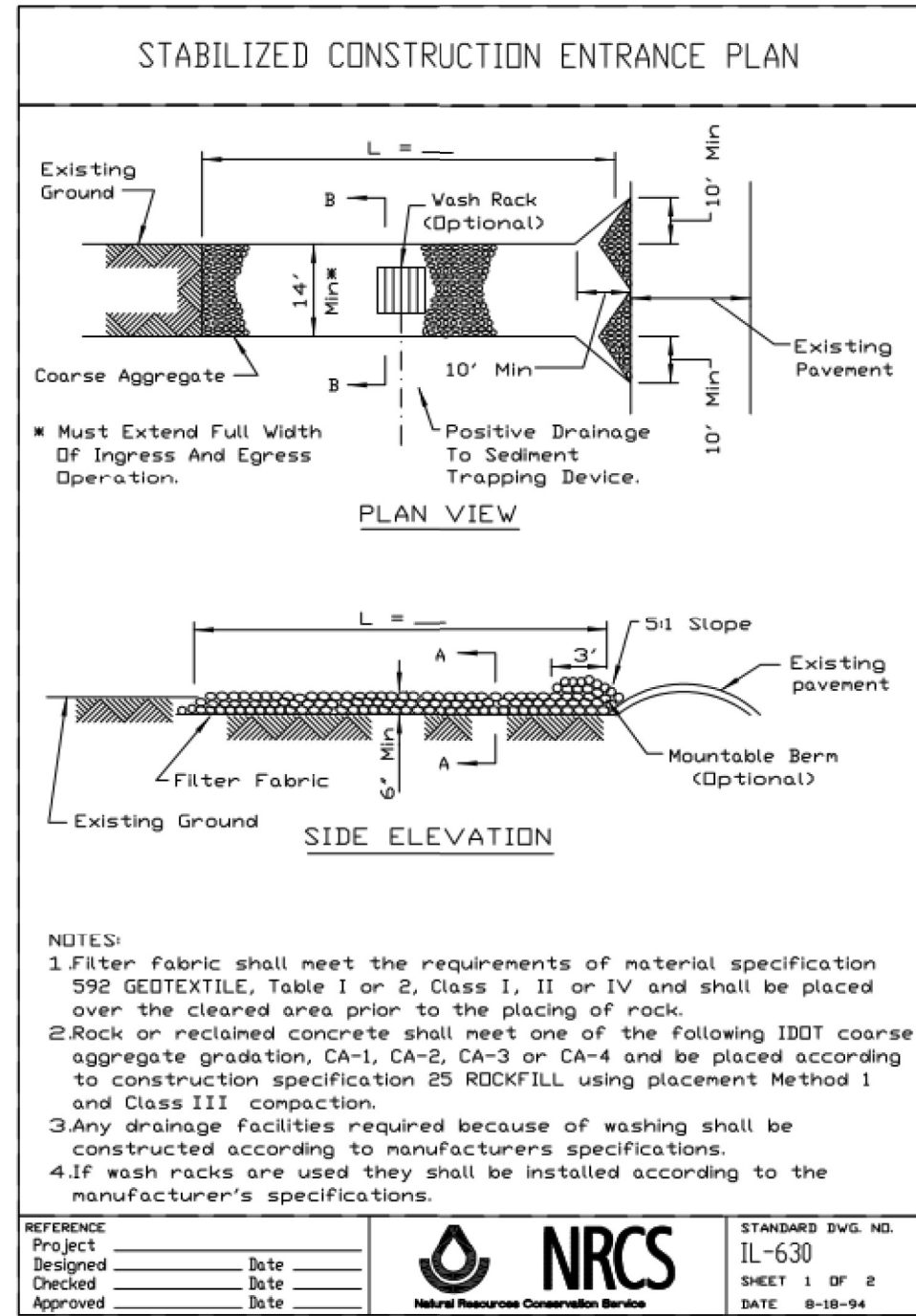
SEEDING, CLASS 4 (MODIFIED) & SEEDING, CLASS 5 (MODIFIED) & HEAVY DUTY EROSION CONTROL BLANKET

INLET AND PIPE PROTECTION

PERIMETER EROSION BARRIER

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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 = ---
PLOT DATE = 2/4/2023

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CHECKED - YOO
DATE - 2-2-23

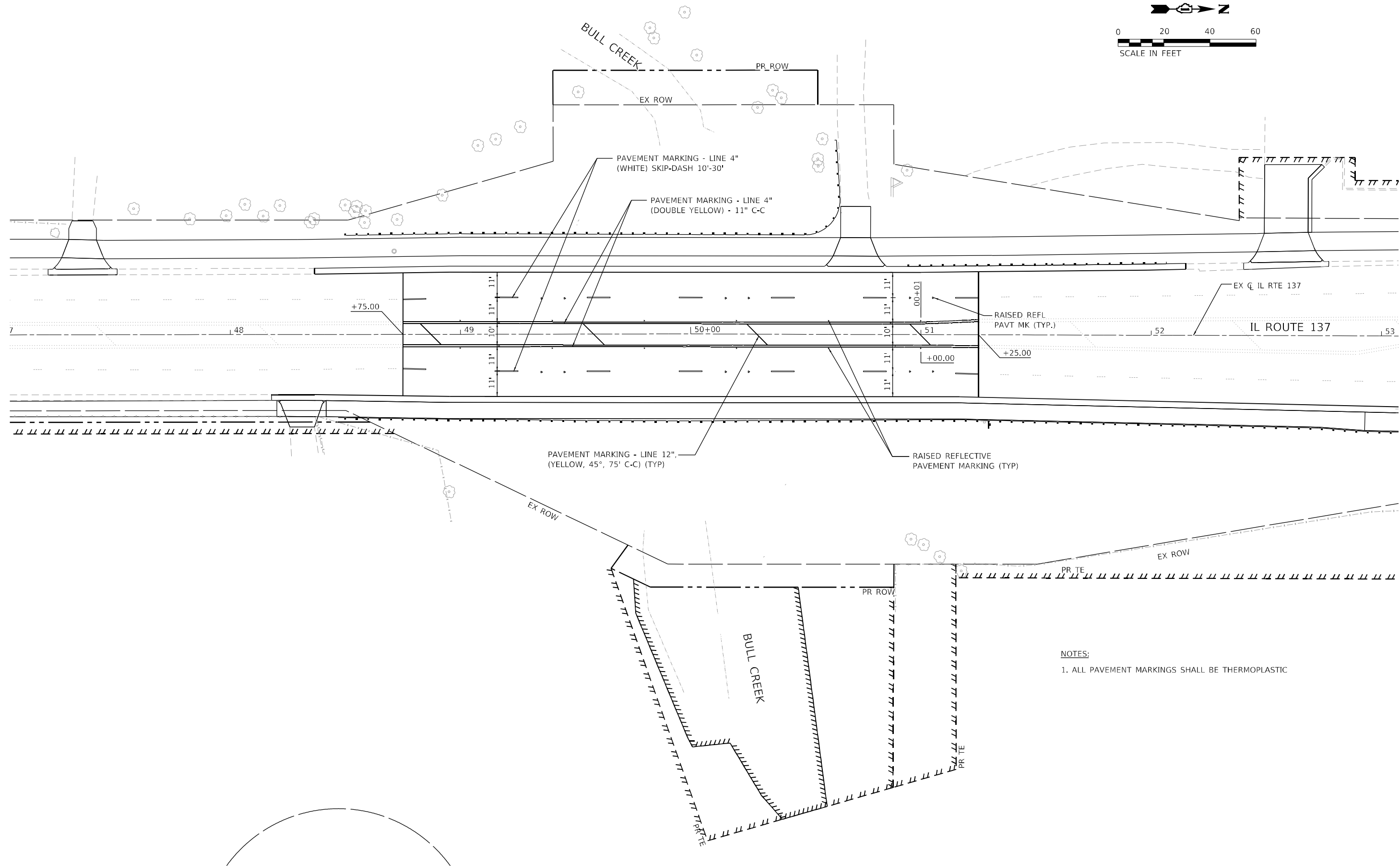
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK CULVERT REPLACEMENT
EROSION CONTROL DETAILS

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 40+00.00 TO STA. 55+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	42
CONTRACT NO. 62141				
ILLINOIS FED. AID PROJECT				



NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC

FILE NAME = Z:\2019\190221 IDOT\PTB193\card\Civil\Drawings\162\141-PMK_01.dgn



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

USER NAME	= kcartopassi
PLOT SCALE	= ---
PLOT DATE	= 2/4/2023

DESIGNED	- KAC
DRAWN	- AKW
CHECKED	- YOO
DATE	- 2-2-23

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 137 OVER BULL CREEK CULVERT REPLACEMENT
PAVEMENT MARKING PLAN**

SCALE: AS SHOWN SHEET 2 OF 2 SHEETS STA. 40+00.00 TO STA. 55+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	43
CONTRACT NO.62141				
ILLINOIS FED. AID PROJECT				

LEGEND



RELOCATED POLE, 35' MH, 15' MA, AND 400W HPS LUMINAIRE



EXISTING LIGHT POLE



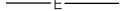
EXISTING LIGHTING CONTROLLER



EXISTING ELECTRIC SERVICE INSTALLATION



EXISTING HANDHOLE



EXISTING LIGHTING CABLES IN UNDERGROUND DUCT TO REMAIN IN PLACE



UNDERGROUND CONDUITS
SIZE AS INDICATED

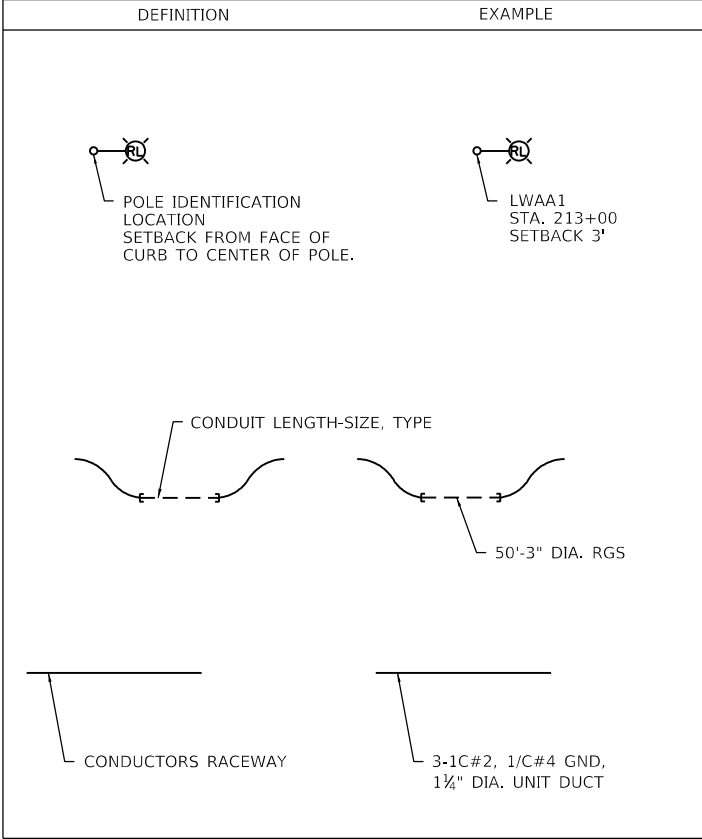


EXISTING UNDERGROUND CONDUITS
SIZE AS INDICATED



UNIT DUCT, SIZE AS INDICATED ON THE PLANS

CALL-OUT SAMPLES



ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
ECA	EXISTING UNIT TO REMAIN
EM	ELECTRIC CABLE ASSEMBLY
	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LT	LEFT
MA	MAST ARM
MM	MILLIMETER
MH	MOUNTING HEIGHT
NO. #	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RT	RIGHT
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
RGS	RIGID GALVANIZED STEEL
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
3. ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION).
5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
6. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
7. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
8. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND ITEM. REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
9. THE EXISTING LIGHTING SYSTEM IS OWNED AND MAINTAINED BY THE STATE OF ILLINOIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PARTIAL MAINTENANCE OF THE EXISTING SYSTEM DURING CONSTRUCTION AND UNTIL THE WORK IS COMPLETED AND THE LIGHT POLES ARE RELOCATED AND OPERATIONAL.
10. CONTRACTOR SHALL NOT USE ANY UNDERGROUND SPLICING. ALL SPLICING SHALL BE INSIDE THE POLE BASE ABOVE GROUND.

S.P.	PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
	81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	62
	81603037	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	423
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	11
	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	1
	84200804	REMOVAL OF POLE FOUNDATION	EACH	1
	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	186
	89502380	REMOVE EXISTING HANDHOLE	EACH	1
*	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	2

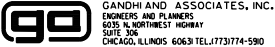
* Indicates Special Provision

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

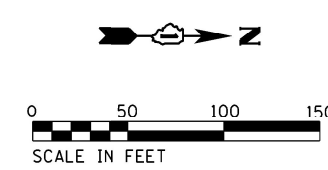
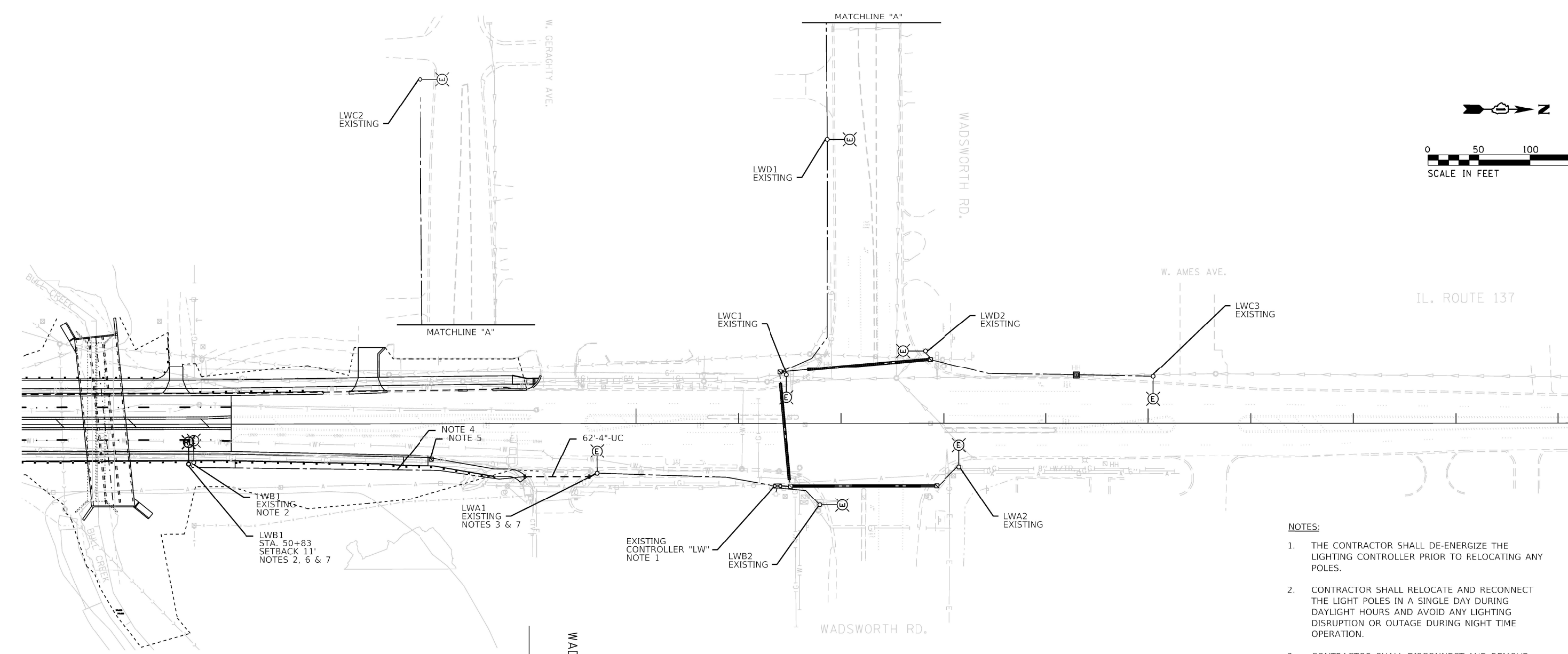
ILLINOIS ROUTE 137 LIGHTING LEGEND

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	44
CONTRACT NO. 62J41				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

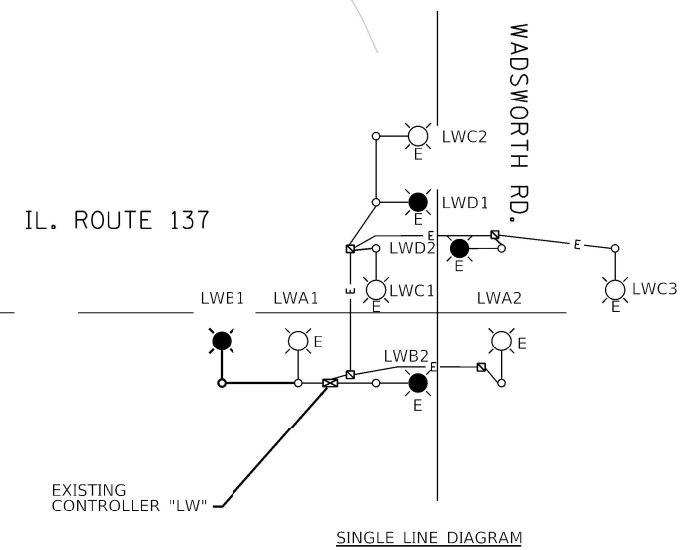


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	DRAWN - MAA	REVISED -
PLOT SCALE = 5SCALES	CHECKED - NT	REVISED -
PLOT DATE = SDATES	DATE - March 9, 2022	REVISED -



- LEGEND**
- RED PHASE
 - BLACK PHASE
 - ⊙ EXISTING LIGHT POLE
 - ⊙ PROPOSED RELOCATED LIGHT POLE
 - ⊠ CONTROLLER
 - ⊠ HANDHOLE
 - E— EXISTING CABLE
 - - - PROPOSED CABLE

IL. ROUTE 137



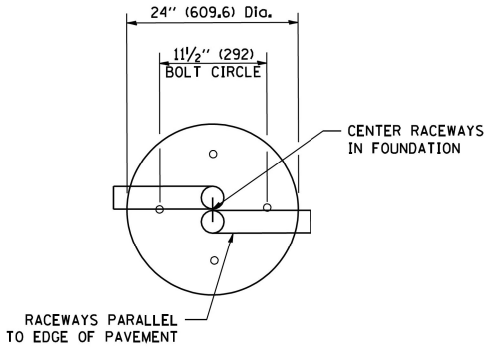
PROPOSED LOAD TABLE LIGHTING CONTROLLER (@240 VOLTS)									
CIRCUIT	QUANTITY	LOAD/FIXT. (WATTS)	RED PHASE		CIRCUIT	QUANTITY	LOAD/FIXT. (WATTS)	BLACK PHASE	
			AMPS	WATTS				AMPS	WATTS
A	2	290 W	2.4	580	B	2	290 W	2.4	580
C	3	290 W	3.6	870	D	2	290 W	2.4	580
TOTAL	5	N/A	6.0	1,450	TOTAL	4	N/A	4.8	1,160

TOTAL LOAD ON CONTROLLER (@240 V): 10.8 AMP

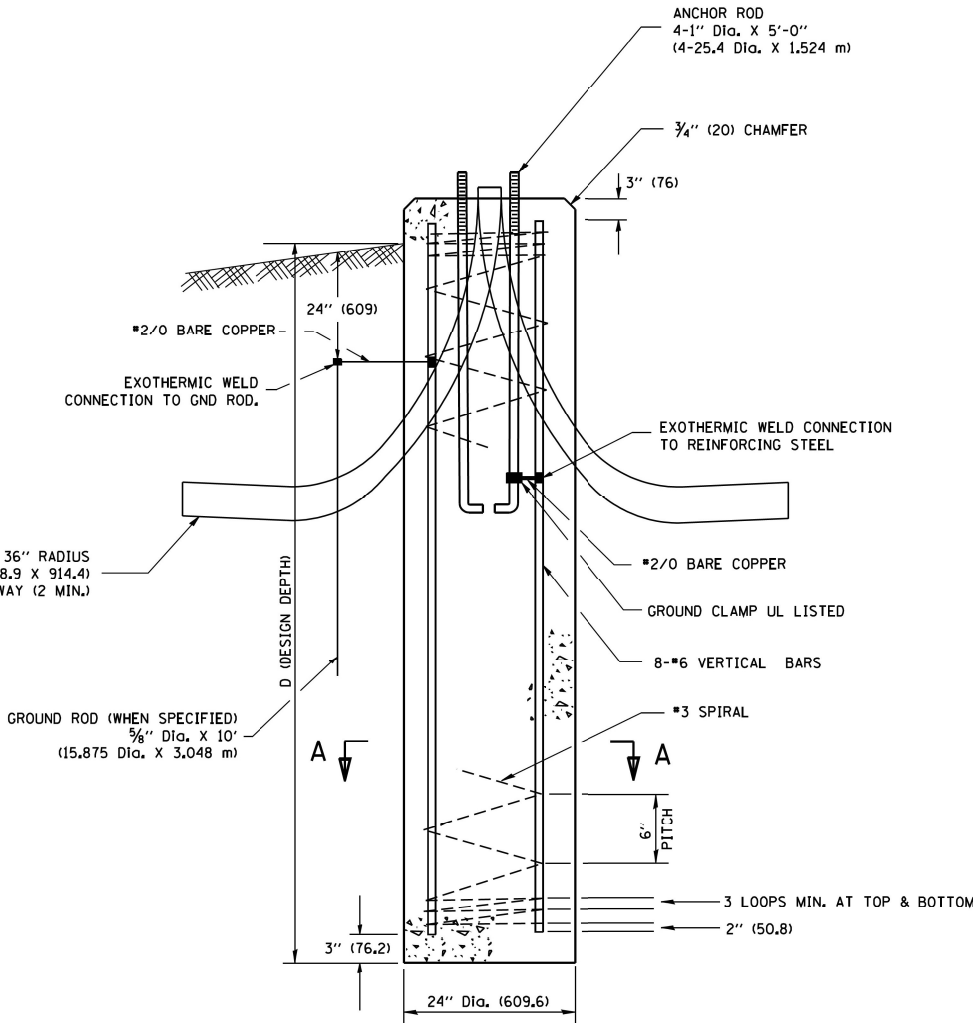
- NOTES:**
- THE CONTRACTOR SHALL DE-ENERGIZE THE LIGHTING CONTROLLER PRIOR TO RELOCATING ANY POLES.
 - CONTRACTOR SHALL RELOCATE AND RECONNECT THE LIGHT POLES IN A SINGLE DAY DURING DAYLIGHT HOURS AND AVOID ANY LIGHTING DISRUPTION OR OUTAGE DURING NIGHT TIME OPERATION.
 - CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING CABLE FROM CONDUIT. BETWEEN LIGHT POLE LWA1 AND LWB1.
 - THE CONTRACTOR SHALL INSTALL NEW UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE BETWEEN LIGHT POLE LWA1 AND LWB1.
 - CONTRACTOR SHALL REMOVE EXISTING HANDHOLE.
 - LIGHT POLE SHALL BE REINSTALLED WITH A NEW BREAK AWAY BASE AND CONCRETE FOUNDATION.
 - CONTRACTOR SHALL INSTALL A NEW SPLICE KIT FOR THIS POLE. THE COST OF THE SPLICE KIT SHALL BE INCIDENTAL TO THE NEW CABLE INSTALLED.
 - CONTRACTOR SHALL NOT USE ANY UNDERGROUND SPLICING. ALL SPLICING SHALL BE INSIDE THE POLE BASE ABOVE GROUND.

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND Ø = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND Ø = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND Ø = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



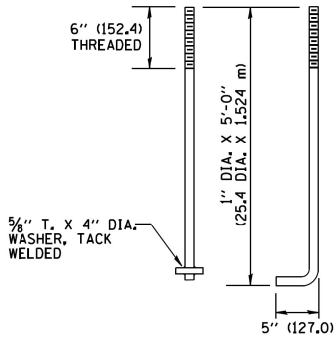
TOP VIEW



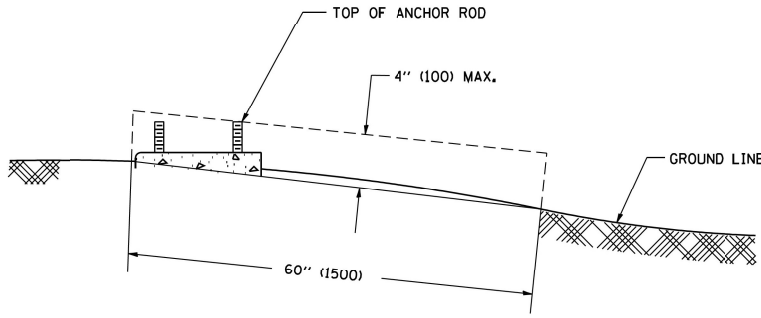
FOUNDATION DETAIL

NOTES

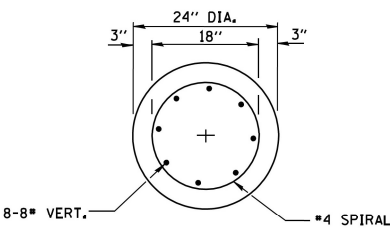
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



ANCHOR BOLT DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
30' (9.144 m) TO 35' (10.668 m) M.H. 11 12" (292 mm) BOLT CIRCLE

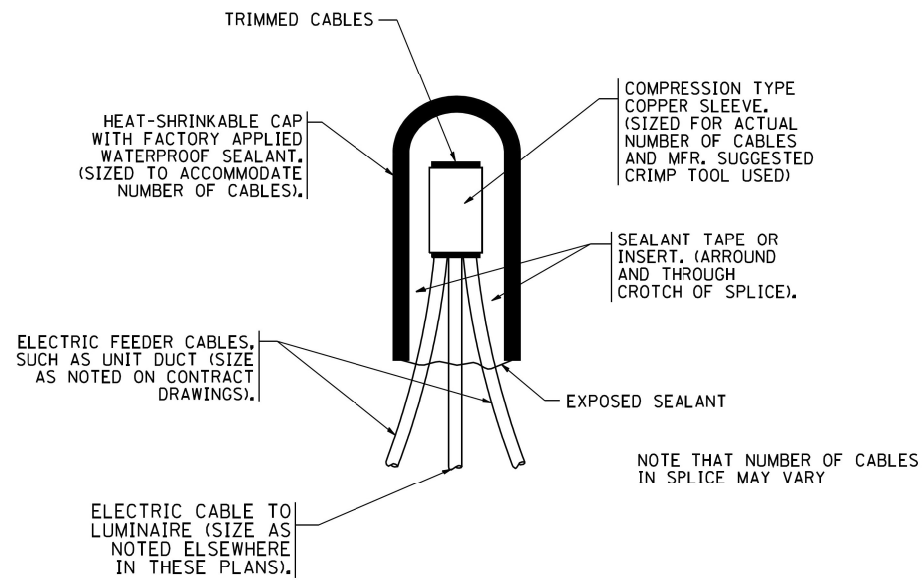
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	46
CONTRACT NO. 62J41				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

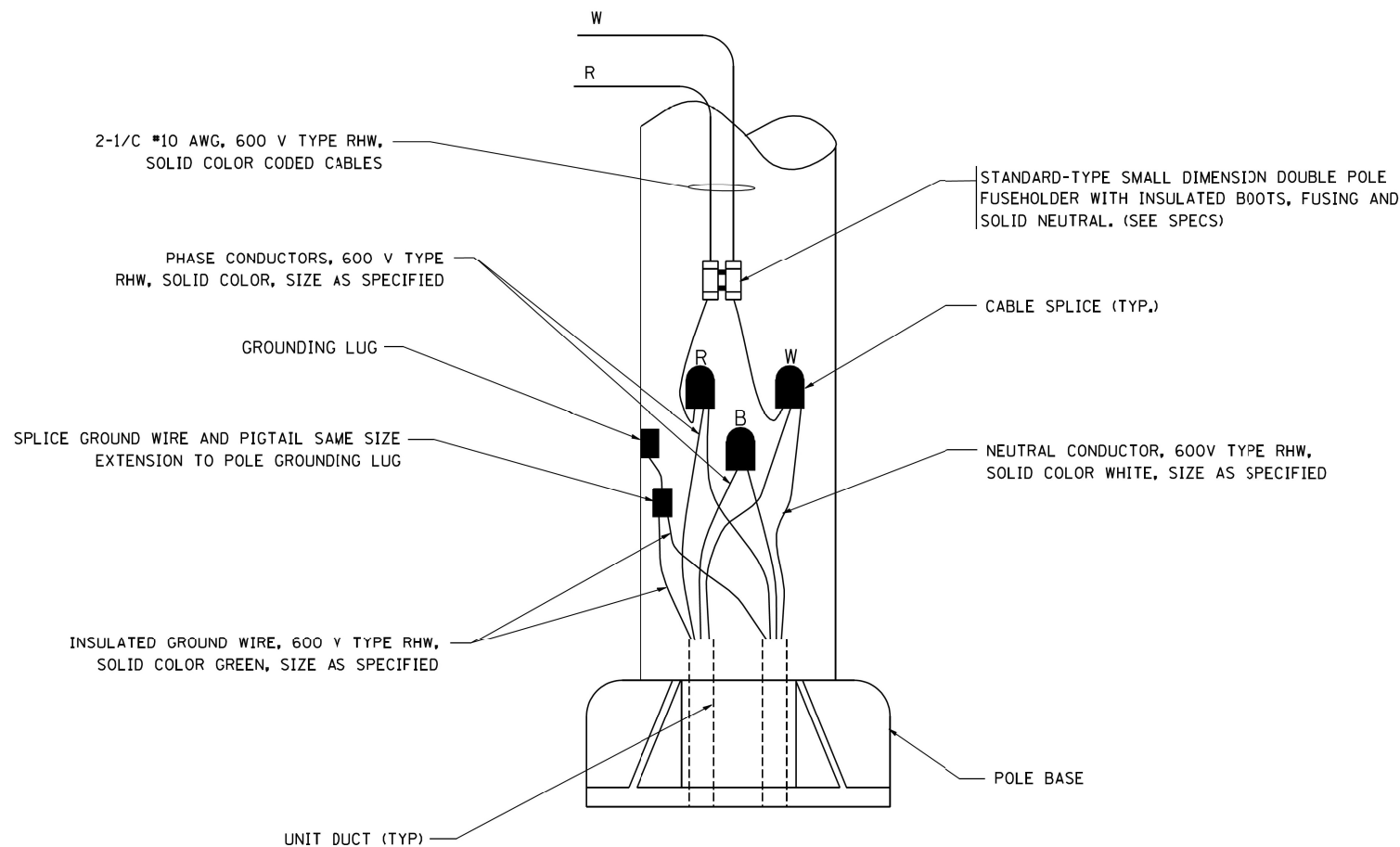


GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60639 TEL: 773-7774-590

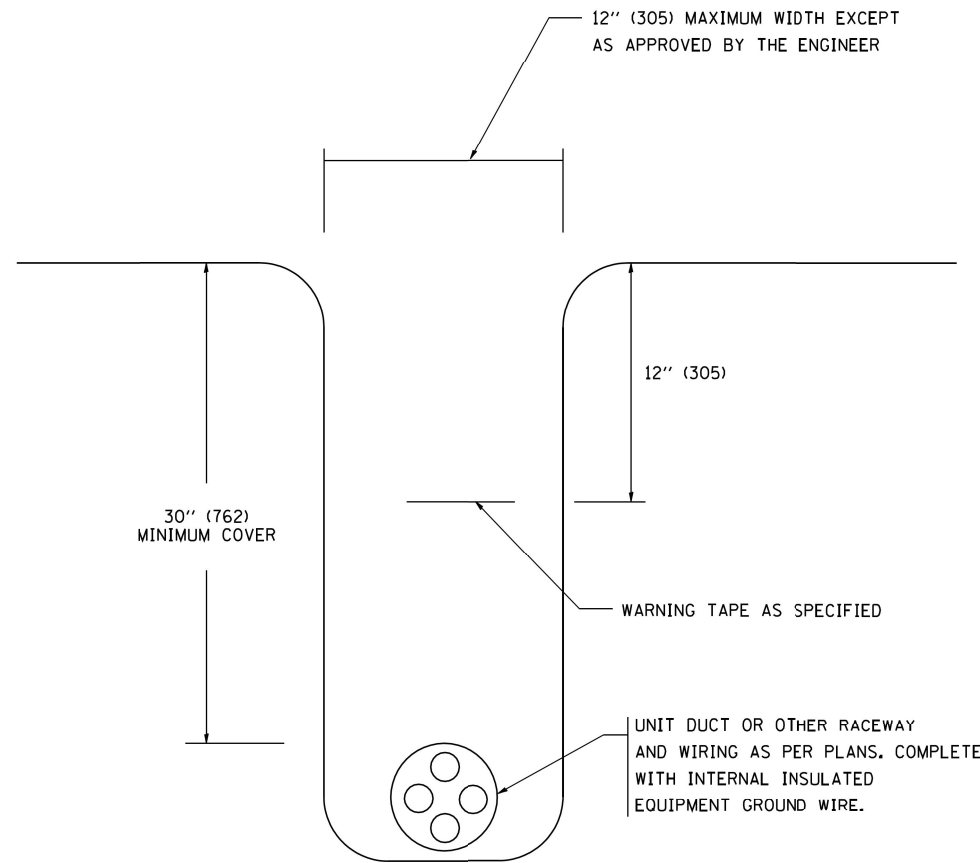
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PLOT DATE = SDATES	CHECKED - NT	REVISED -
	DATE - March 9, 2022	REVISED -



TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



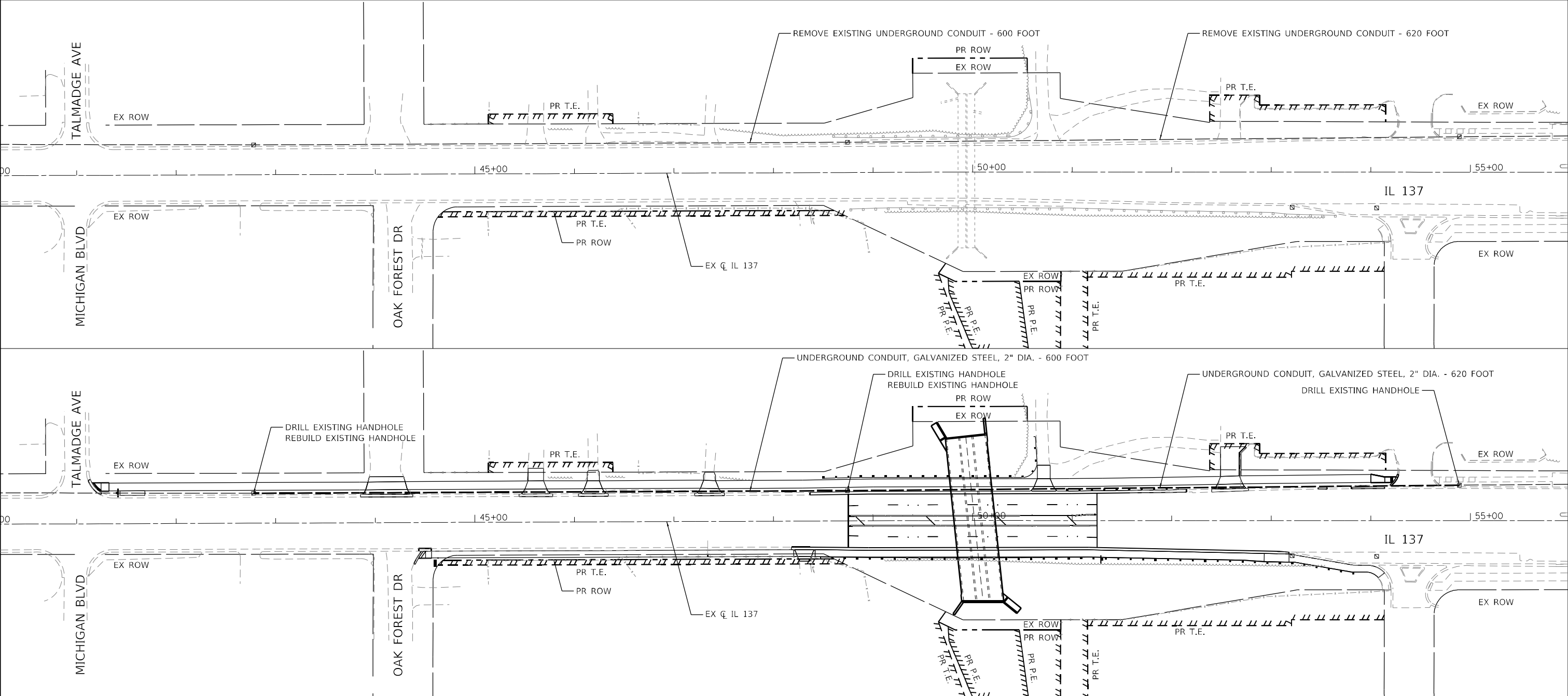
TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



NOTES:

1. INSTALL TEMPORARY INTERCONNECT SYSTEM AT WADSWORTH RD AND AT BEACH RD CONTROLLERS PRIOR TO START OF CONSTRUCTION
2. REMOVE FIBER AND TRACER CABLES FROM CONDUIT BETWEEN WADSWORTH RD CONTROLLERS AND BEACH RD CONTROLLERS
3. REMOVE CONDUIT AT CULVERT CONSTRUCTION
4. REPLACE CONDUIT AFTER CULVERT CONSTRUCTION
5. REPLACE FIBER OPTIC CABLE AFTER CULVERT CONSTRUCTION

BILL OF MATERIALS		
ITEM	QUANT.	UNIT
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	1220	FOOT
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	2	EACH
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	3465	FOOT
DRILL EXISTING HANDHOLE	3	EACH
REMOVE ELECTRIC CABLE FROM CONDUIT	6930	FOOT
REBUILD EXISTING HANDHOLE	2	EACH
TERMINATE FIBER IN CABINET	24	EACH
FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	3465	FOOT
SPLICE FIBER IN CABINET	12	EACH
REMOVE EXISTING UNDERGROUND CONDUIT	1220	FOOT
TEMPORARY INTERCONNECT	1	L SUM
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	2	EACH



USER NAME = J.Berggren

DESIGNED - RG

DRAWN - JB

PLOT SCALE = 100,0000 ' / in.

PLOT DATE = 2/3/2023

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK

INTERCONNECT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 352

SECTION 2019-074-SW&I

COUNTY LAKE

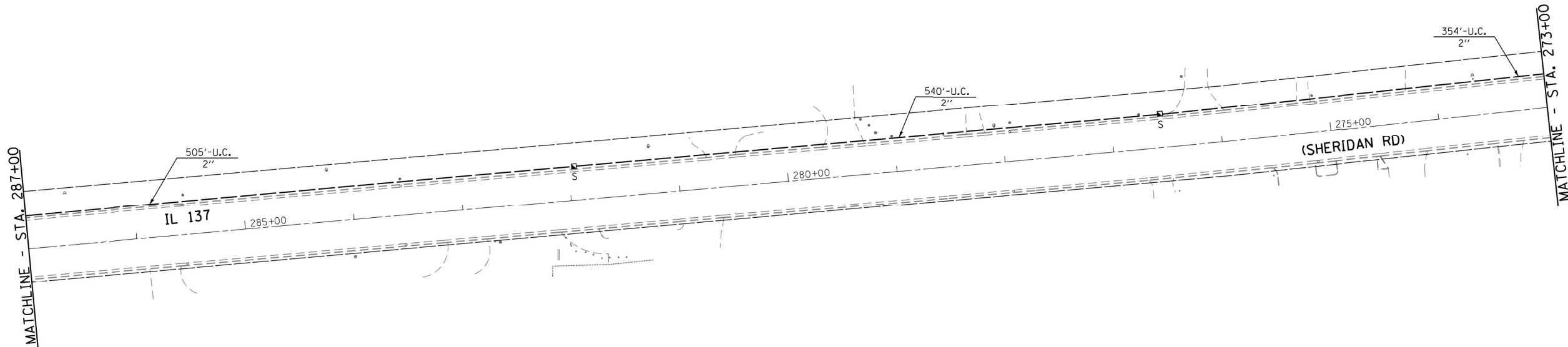
CONTRACT NO. 62J41

TOTAL SHEETS 90

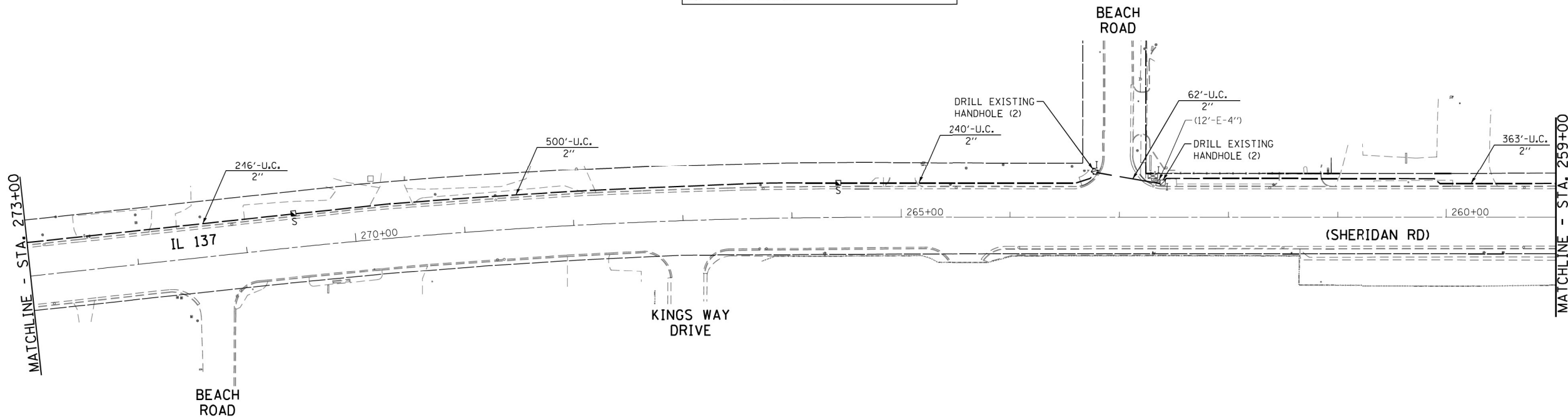
SHEET NO. 49

ILLINOIS

FED. AID PROJECT



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



EXISTING PLAN
FOR INFORMATION ONLY

GHA #4571.800

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 8 OF 10)
GRAND AVENUE TO WADSWORTH ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2736	12-00999-29-TL	LAKE	73	55
		CONTRACT NO. 61A55		
ILLINOIS		FED. AID PROJECT		

EFK Moen
Civil Engineering Design

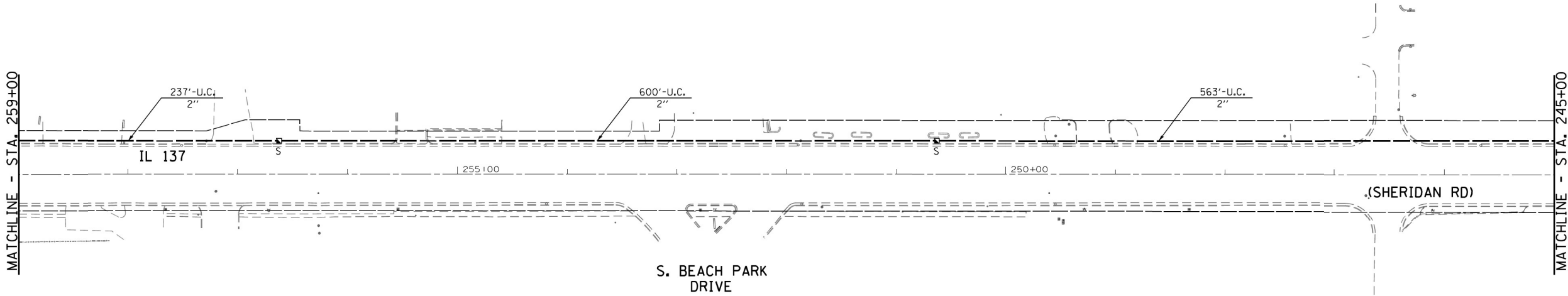
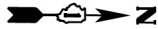
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	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

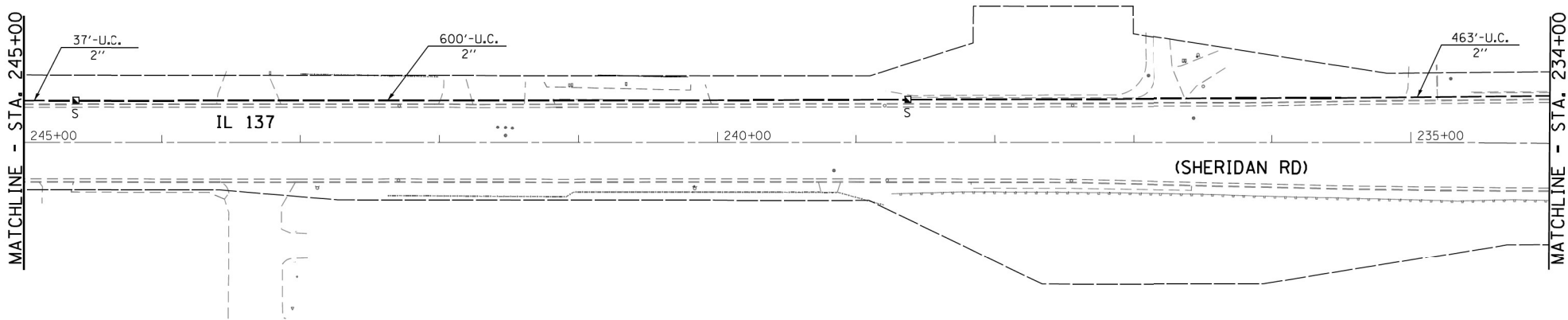
IL 137 OVER BULL CREEK
INTERCONNECT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	50
		CONTRACT NO. 62J41		
ILLINOIS		FED. AID PROJECT		



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



EXISTING PLAN
FOR INFORMATION ONLY

FILE NAME = D:\B1A55-056-TS.dgn Default	USER NAME = ZWallsten	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN (SHEET 9 OF 10) GRAND AVENUE TO WADSWORTH ROAD	F.A.P. RTE. 2736	SECTION 12-00999-29-TL	COUNTY LAKE	TOTAL SHEETS 73	SHEET NO. 56	CONTRACT NO. 61A55		
		DRAWN - ZCW	REVISED -										
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					SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

GHA #4571.800

MODEL Default
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EFK•Moen
Civil Engineering Design

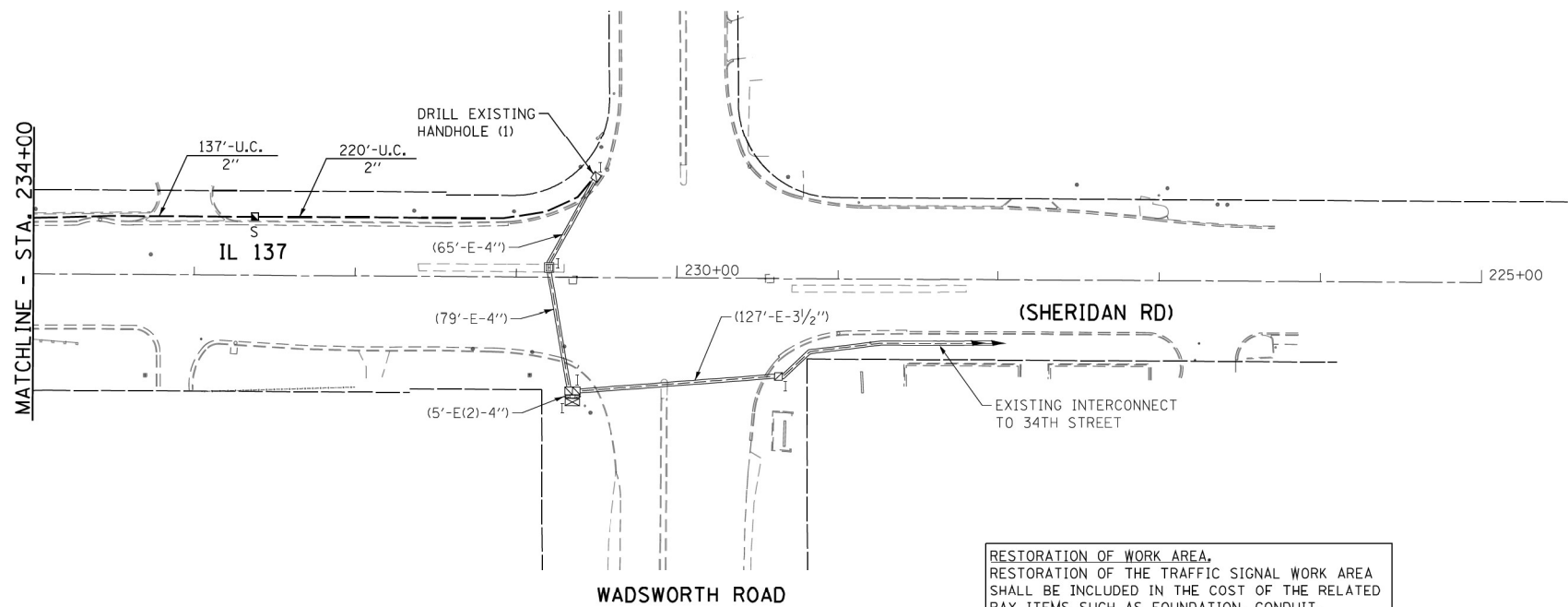
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
INTERCONNECT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	51
		CONTRACT NO. 62J41		
ILLINOIS		FED. AID PROJECT		



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

EXISTING PLAN
FOR INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 10 OF 10)
GRAND AVENUE TO WADSWORTH ROAD

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

F.A.P. RTE. 2736	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00999-29-TL	LAKE	73	57
	CONTRACT NO. 61A55			
	ILLINOIS FED. AID PROJECT			

GHA #4571.800

EFK•Moen
Civil Engineering Design

USER NAME = JBergrgren PLOT SCALE = 100,0000 ' / in. PLOT DATE = 2/3/2023	DESIGNED - RG	REVISED -
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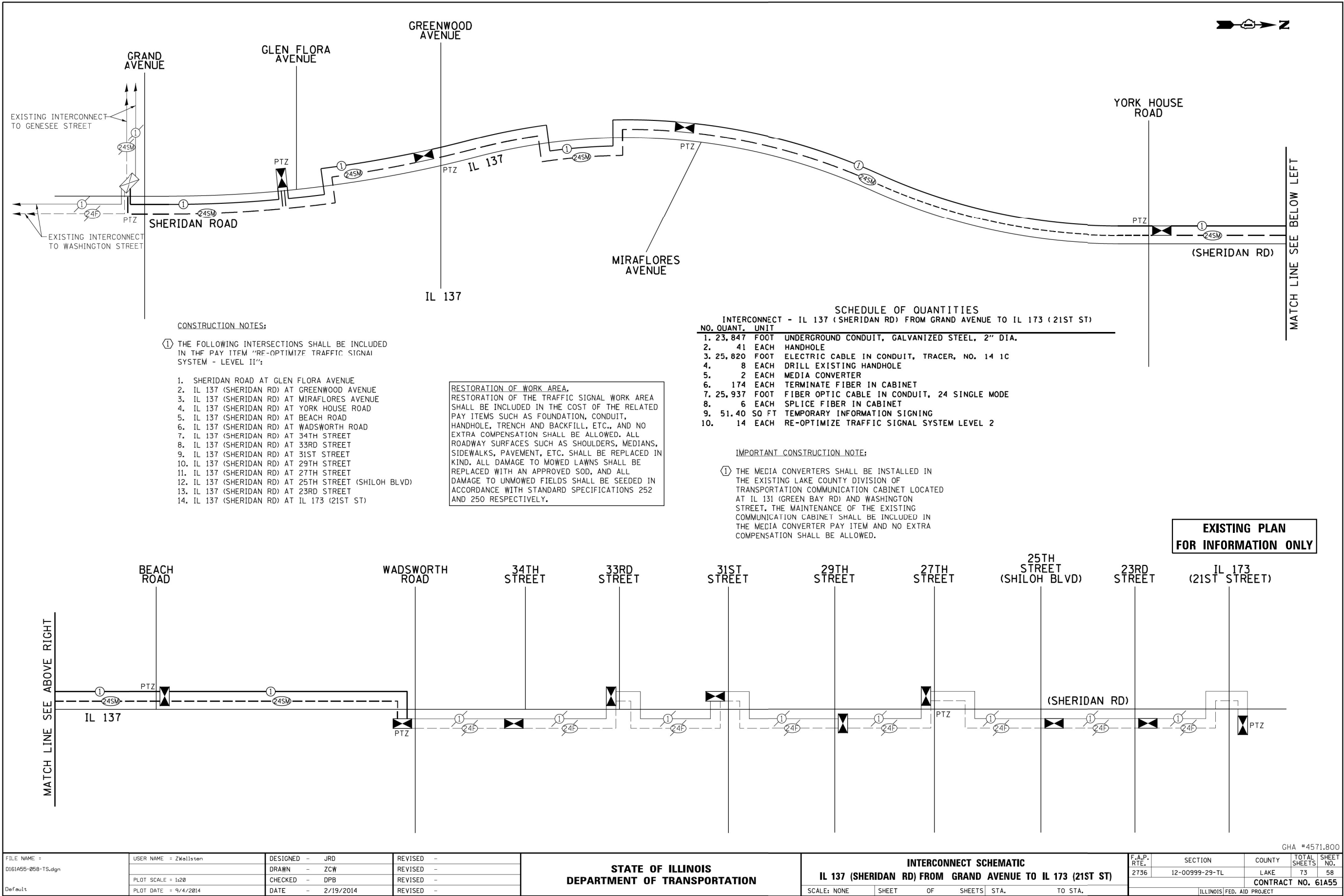
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
INTERCONNECT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 352	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2019-074-SW&I	LAKE	90	52
	CONTRACT NO. 62J41			
	ILLINOIS FED. AID PROJECT			

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EFK•Moen
Civil Engineering Design

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	DRAWN - JB	REVISOR -
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PLOT DATE = 2/3/2023	DATE - 9/25/2020	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
INTERCONNECT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

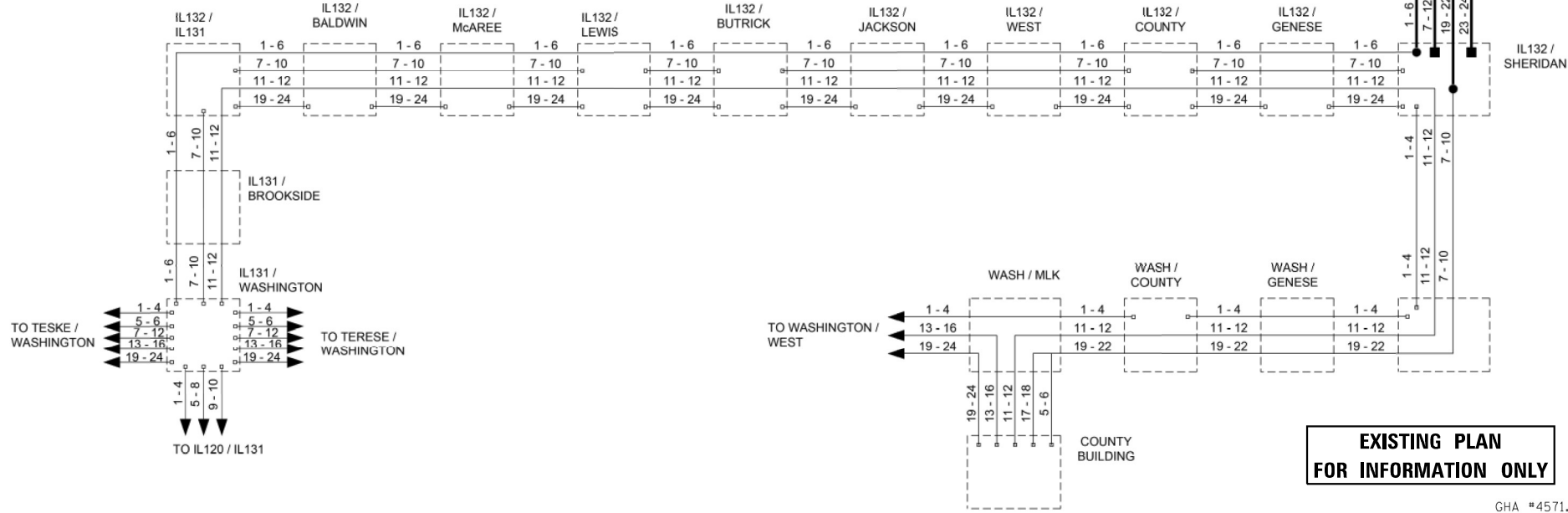
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CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

FIBER OPTIC CABLE TERMINATION/SPlicing QUANTITIES
(BY INTERSECTION/LOCATION)

INTERSECTION/LOCATION	INCLUDED		BID ITEM	
	T	S	T	S
SHERIDAN ROAD AT GRAND AVENUE	8	10		
SHERIDAN ROAD AT GLEN FLORA AVENUE	24	6		
IL 137 (SHERIDAN RD) AT GREENWOOD AVENUE	24	6		
IL 137 (SHERIDAN RD) AT MIRAFLORES AVENUE	24	6		
IL 137 (SHERIDAN RD) AT YORK HOUSE ROAD	24	6		
IL 137 (SHERIDAN RD) AT BEACH ROAD	24	4		
IL 137 (SHERIDAN RD) AT WADSWORTH ROAD	12	6	6	
IL 137 (SHERIDAN RD) AT 34TH STREET			12	6
IL 137 (SHERIDAN RD) AT 33RD STREET			24	
IL 137 (SHERIDAN RD) AT 31ST STREET			24	
IL 137 (SHERIDAN RD) AT 29TH STREET			24	
IL 137 (SHERIDAN RD) AT 27TH STREET			24	
IL 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD)			24	
IL 137 (SHERIDAN RD) AT 23RD STREET			24	
IL 173 (SHERIDAN RD) AT IL 173 (21ST STREET)			12	
TOTAL FOR CONTRACT	140	46	174	6

T = TERMINATE FIBER IN CABINET
S = SPLICE FIBER IN CABINET

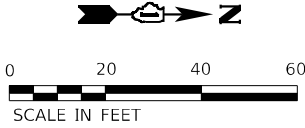
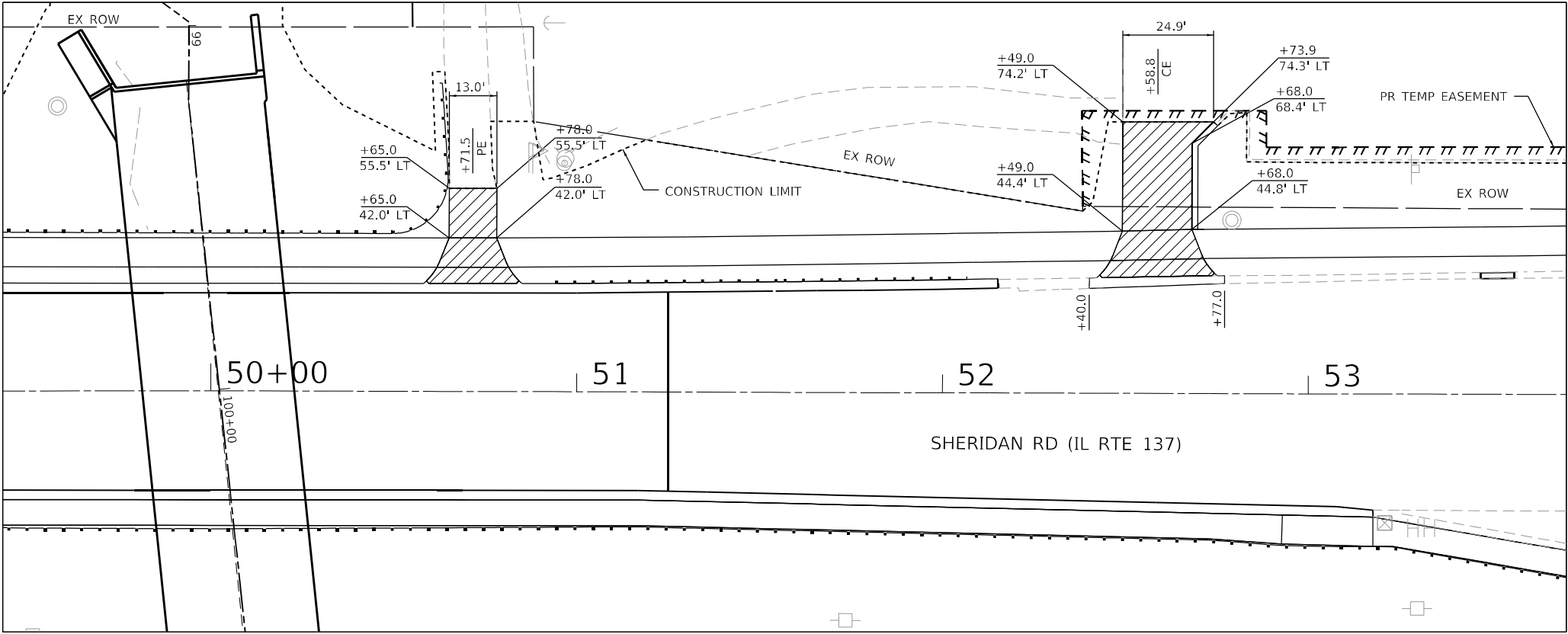
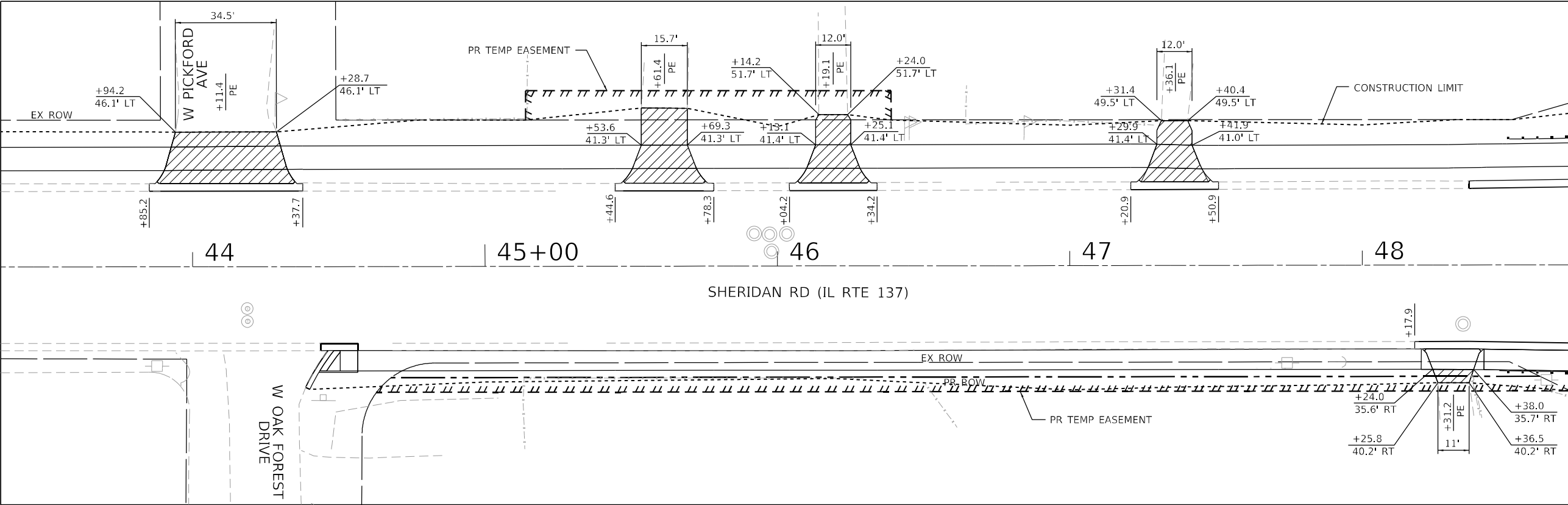
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- EXISTING FIBER / PROPOSED TERMINATION ————■
- EXISTING FIBER / EXISTING SPLICE ————●
- EXISTING FIBER / PROPOSED SPLICE ————●
- PROPOSED FIBER / PROPOSED TERMINATION ————■
- PROPOSED FIBER / PROPOSED SPLICE ————●



	DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	FIBER SPLICING DIAGRAM 1 IL132 / SHERIDAN	ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
	DRAWN - YM	REVISED -			2736		12-009999-29-TL	61	73
	CHECKED - DG	REVISED -			SCALE N/A				
	DATE 2014/02/17	REVISED -							

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JH	REVISED -
PLOT DATE = 2/3/2023	DATE - 9/25/2020	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	54
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				



-  DRIVEWAY PAVEMENT
- HMA SURFACE COURSE, MIX D, IL-9.5 N50 (2")
 - HMA BASE COURSE 6" (FOR PE)
 - HMA BASE COURSE 8" (FOR CE)
 - AGGREGATE BASE COURSE, TYPE B 6"

FILE NAME = Z:\2019\190221 IDOT\PTB\193\card\Civil\Drawings\162\14+DT_01.dgn



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

USER NAME = kcortopassi
PLOT SCALE = 1:40
PLOT DATE = 4/17/2023

DESIGNED - KAC
DRAWN - AKW
CHECKED - YOO
DATE - 2-2-23

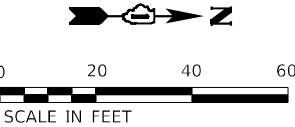
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
DRIVEWAY DETAILS

SCALE: AS SHOWN SHEET 1 OF 1 SHEETS STA. 40+00.00 TO STA. 55+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	55
CONTRACT NO.62141				
ILLINOIS FED. AID PROJECT				



 WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = kcontopassi	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 137 OVER BULL CREEK CULVERT REPLACEMENT GUARDRAIL DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:40	DRAWN - AKW	REVISED -						352	2019-074-SW&I	LAKE	90	56
	PLOT DATE = 2/4/2023	CHECKED - YOO	REVISED -		CONTRACT NO. 62J41								
	DATE - 2-2-23	REVISED -	SCALE: AS SHOWN							SHEET 1 OF 2 SHEETS	STA. 40+00.00 TO STA. 55+00.00	ILLINOIS	FED. AID PROJECT

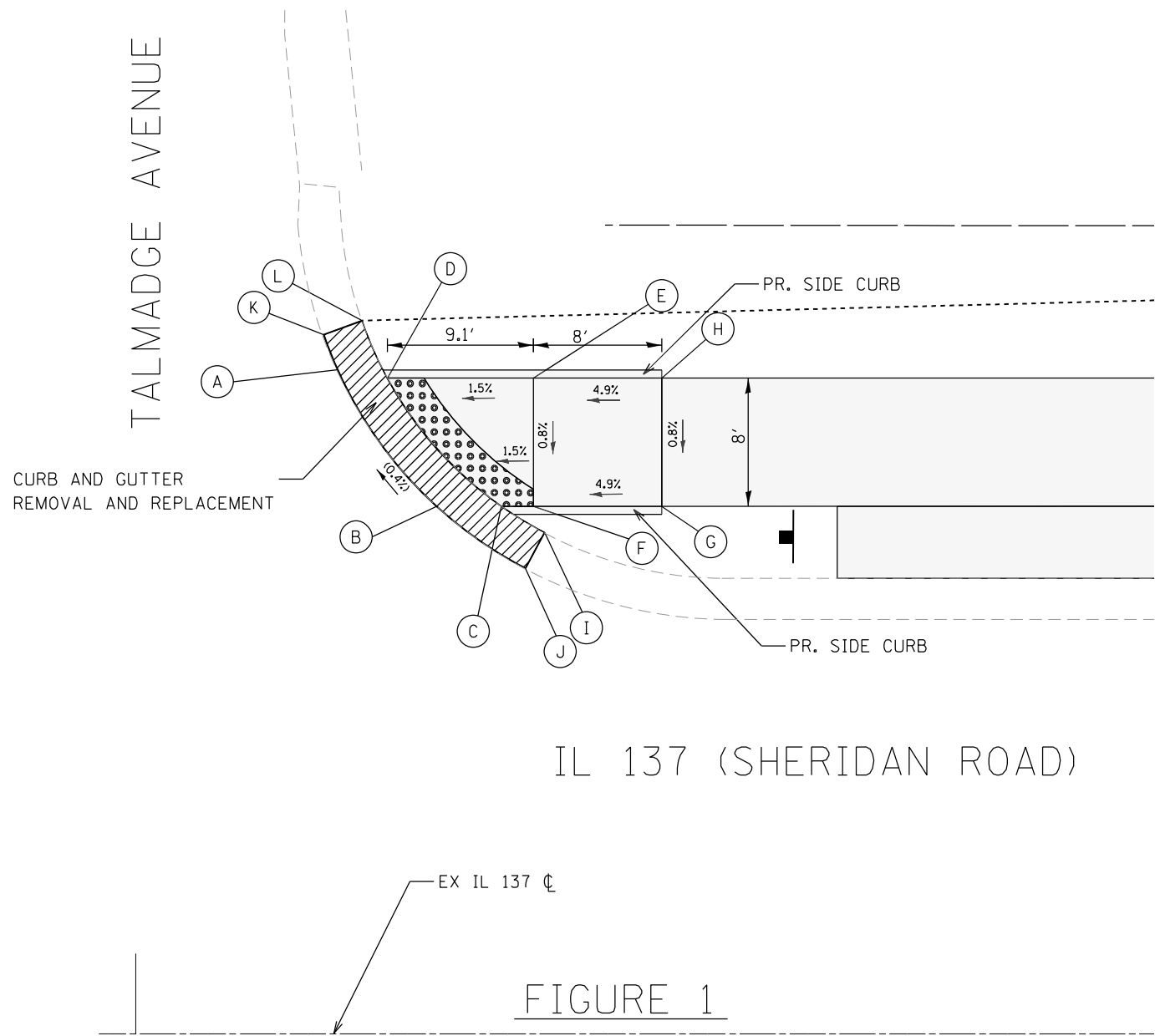


FIGURE 1

FIGURE 1

POINT	STATION	OFFSET (L)	ELEVATION
A	41+12.60	41.40	(633.64)
B	41+18.76	32.90	(633.70)
C	41+22.79	32.90	633.70
D	41+15.69	40.90	633.65
E	41+24.79	40.90	633.79
F	41+24.79	32.90	633.73
G	41+32.79	32.90	634.12
H	41+32.79	40.90	634.18
I	41+25.49	31.26	(633.97)
J	41+24.30	29.03	(633.71)
K	41+11.73	43.61	(633.63)
L	41+14.11	44.47	(633.90)

LEGEND

xx.xx'

EXISTING LENGTH

—

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

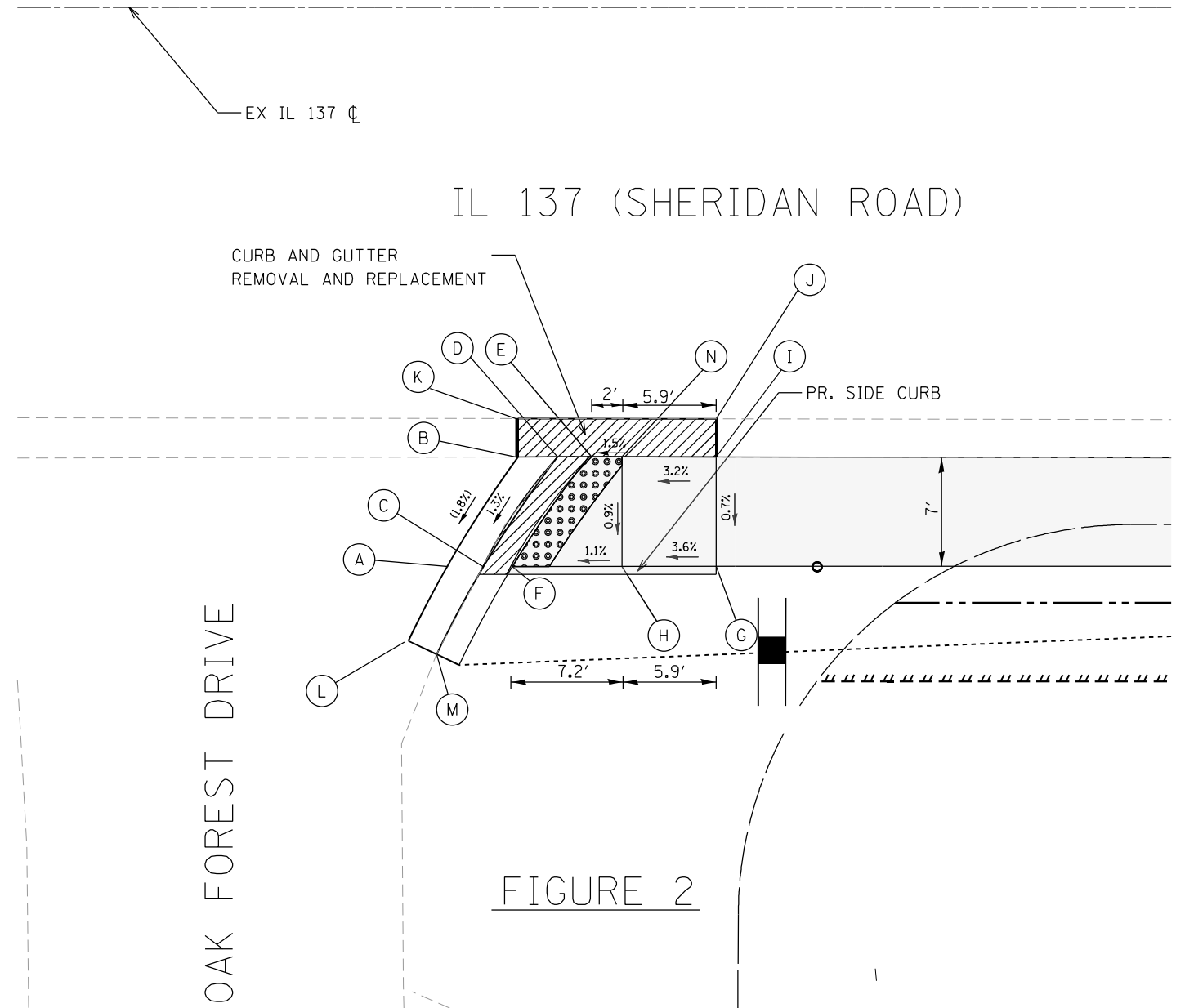
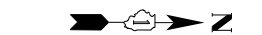


FIGURE 2

FIGURE 2

POINT	STATION	OFFSET (R)	ELEVATION
A	44+39.36	35.67	(633.31)
B	44+43.68	28.67	(633.45)
C	44+41.58	35.66	633.26
D	44+46.33	28.65	633.38
E	44+48.51	28.66	633.37
F	44+43.36	35.66	633.25
G	44+56.44	35.64	(633.54)
H	44+50.44	35.65	633.33
I	44+56.44	28.66	(633.59)
J	44+56.45	26.24	(633.37)
K	44+43.68	26.22	(633.45)
L	44+36.58	40.48	(633.31)
M	44+38.63	41.25	(633.24)
N	44+50.44	28.66	633.40

(MATCH EXISTING TOP OF CURB)



0 5 10 15
SCALE IN FEET

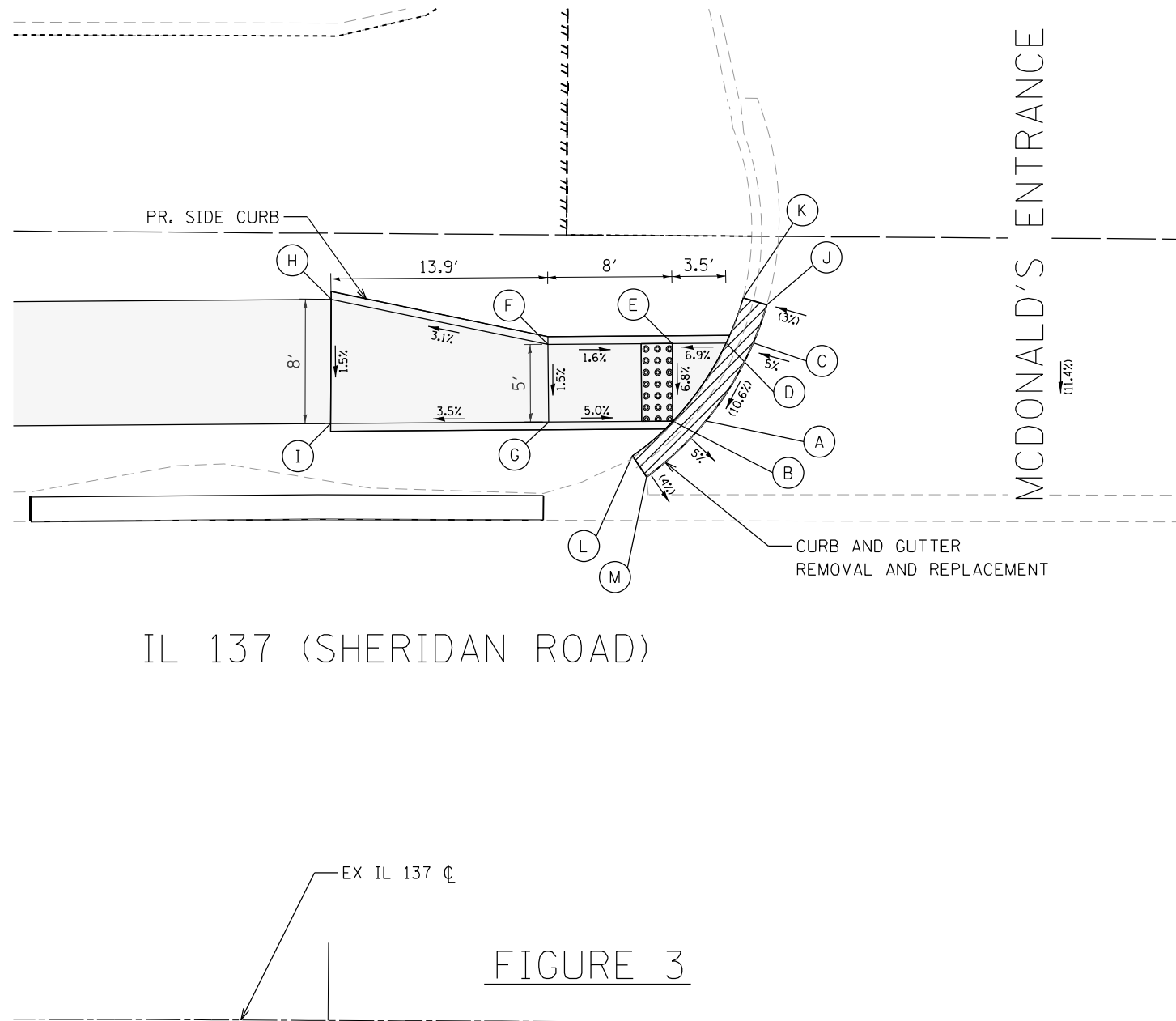


FIGURE 3

FIGURE 3

POINT	STATION	OFFSET (L)	ELEVATION
A	54+24.15	38.68	(633.17)
B	54+22.03	38.65	633.11
C	54+27.18	43.71	(633.79)
D	54+25.44	43.69	633.69
E	54+21.97	43.65	633.45
F	54+13.97	43.56	633.58
G	54+14.03	38.56	633.51
H	54+00.00	46.40	633.14
I	54+00.00	38.40	633.02
J	54+28.05	46.17	(634.08)
K	54+26.52	46.60	(634.44)
L	54+19.43	36.42	(633.13)
M	54+20.35	35.06	(632.62)

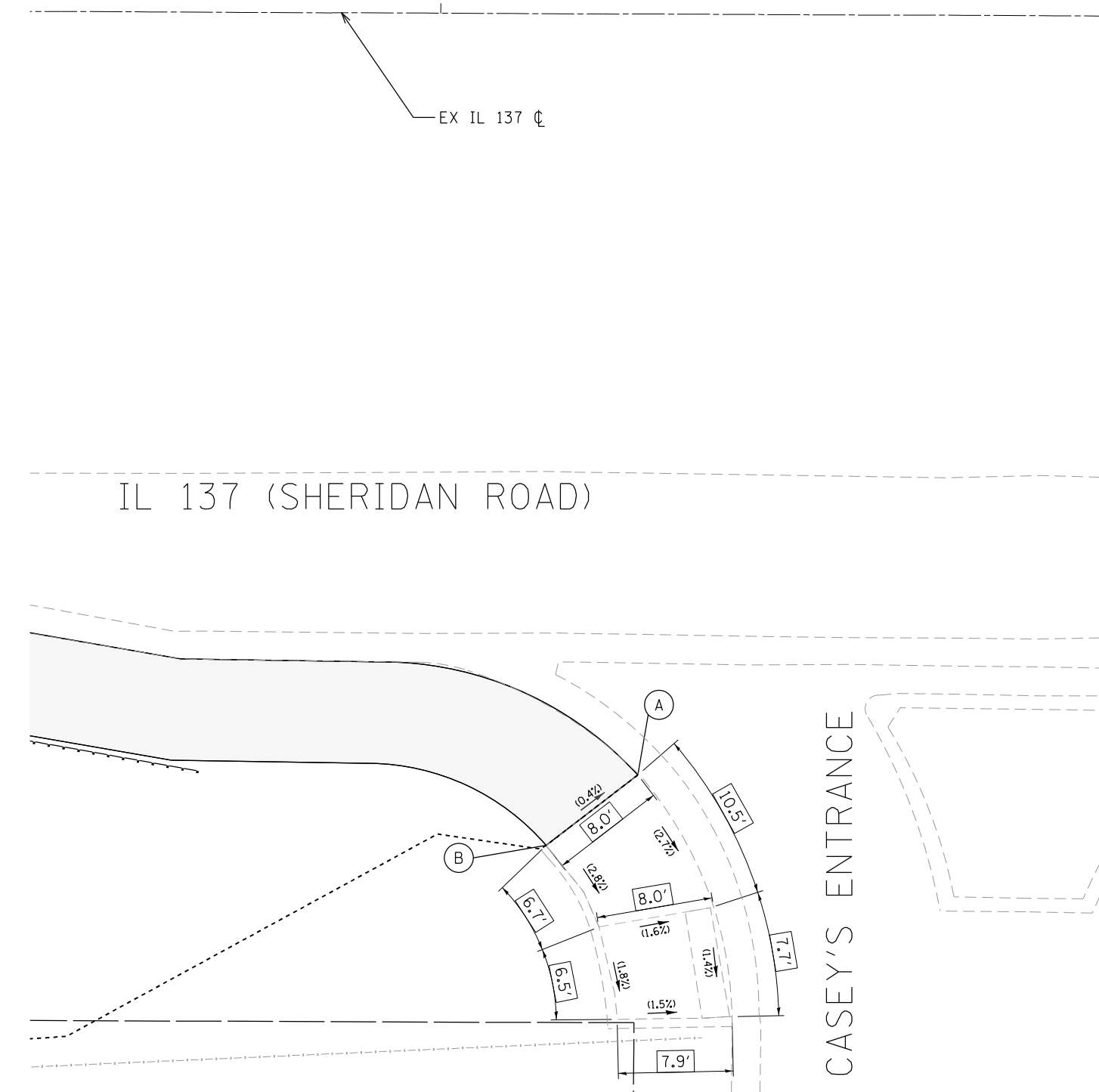
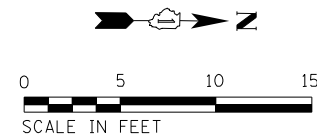
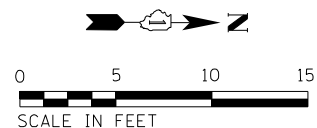


FIGURE 4

FIGURE 5

POINT	STATION	OFFSET (R)	ELEVATION
A	54+13.80	52.46	(633.02)
B	54+07.50	57.34	(633.05)



LEGEND

xx.xx'

EXISTING LENGTH

—

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

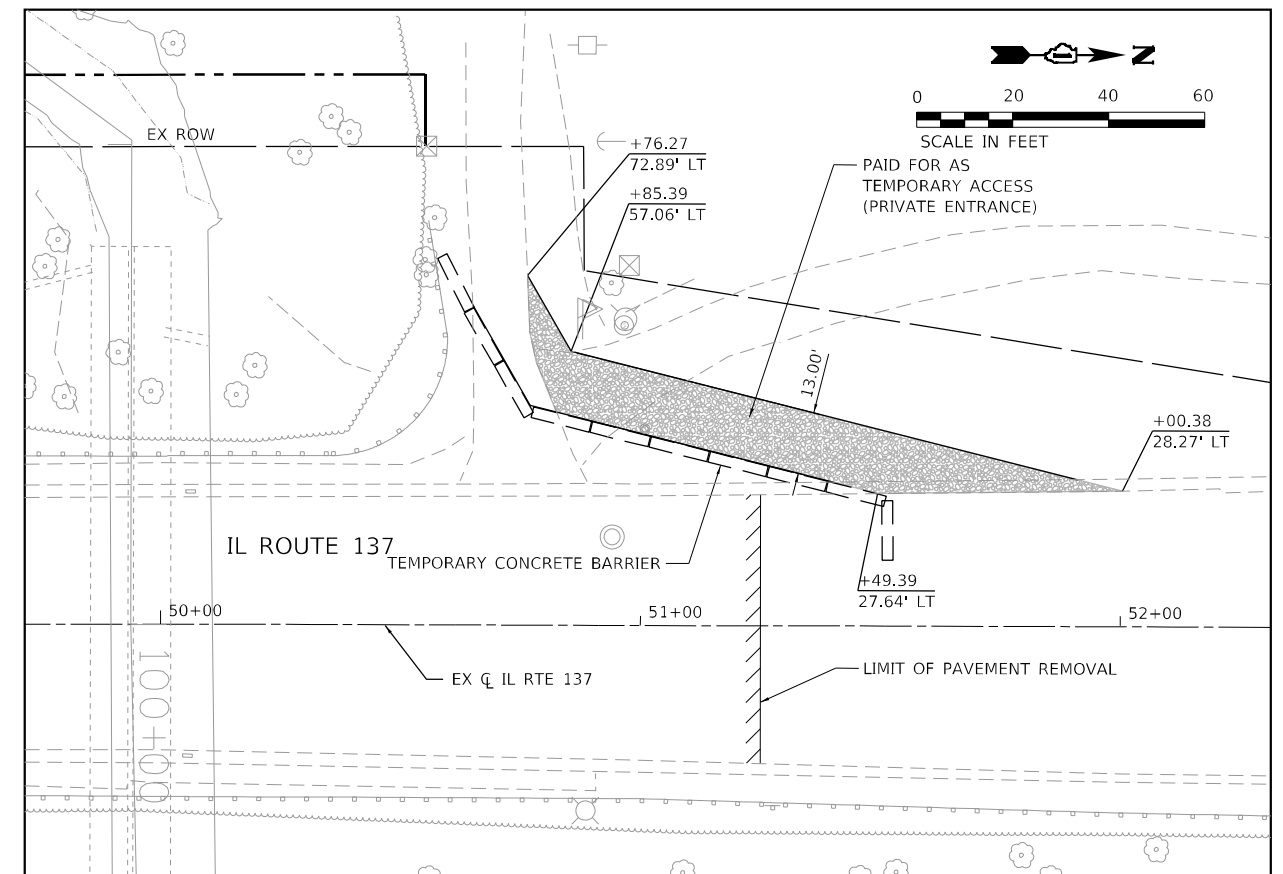
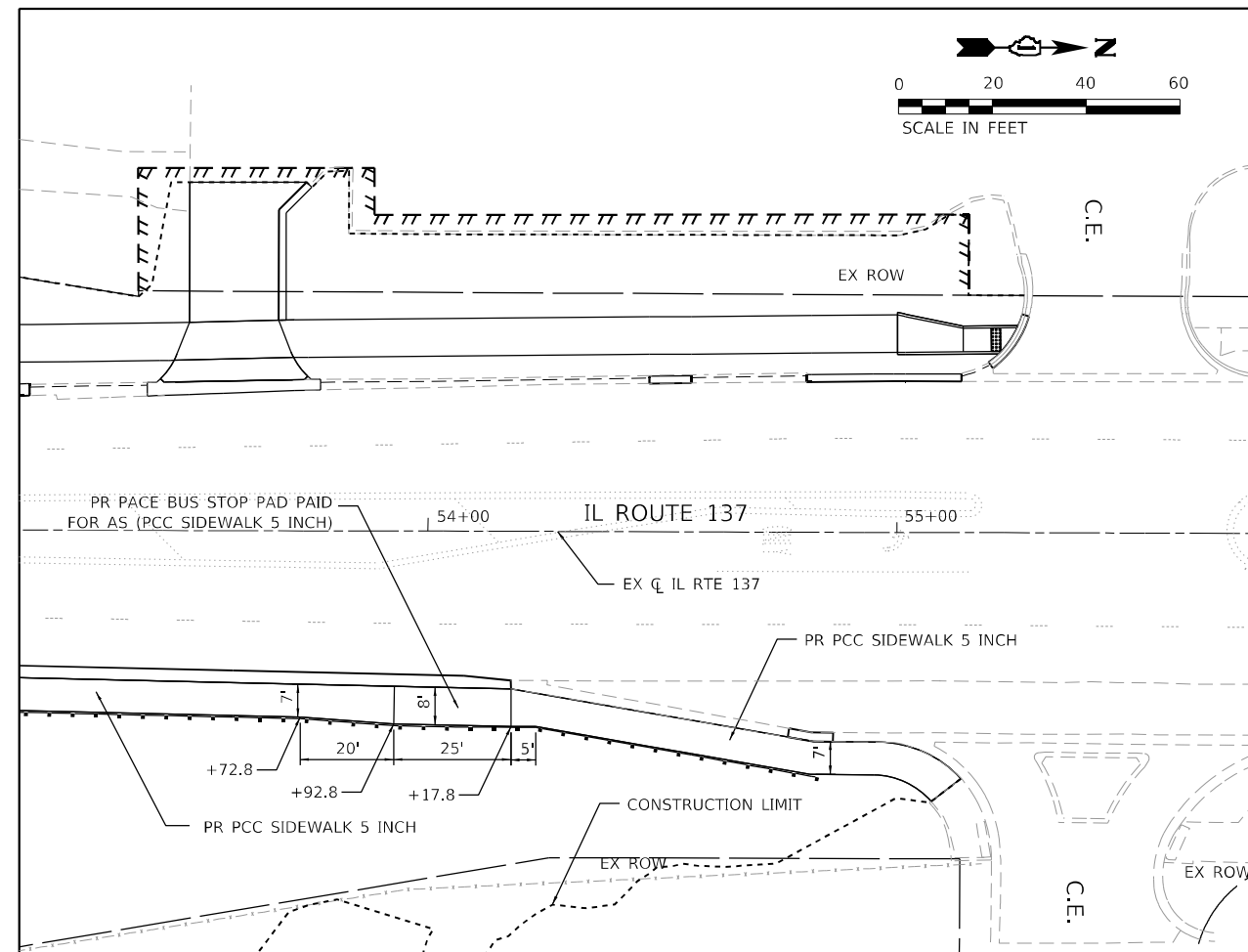
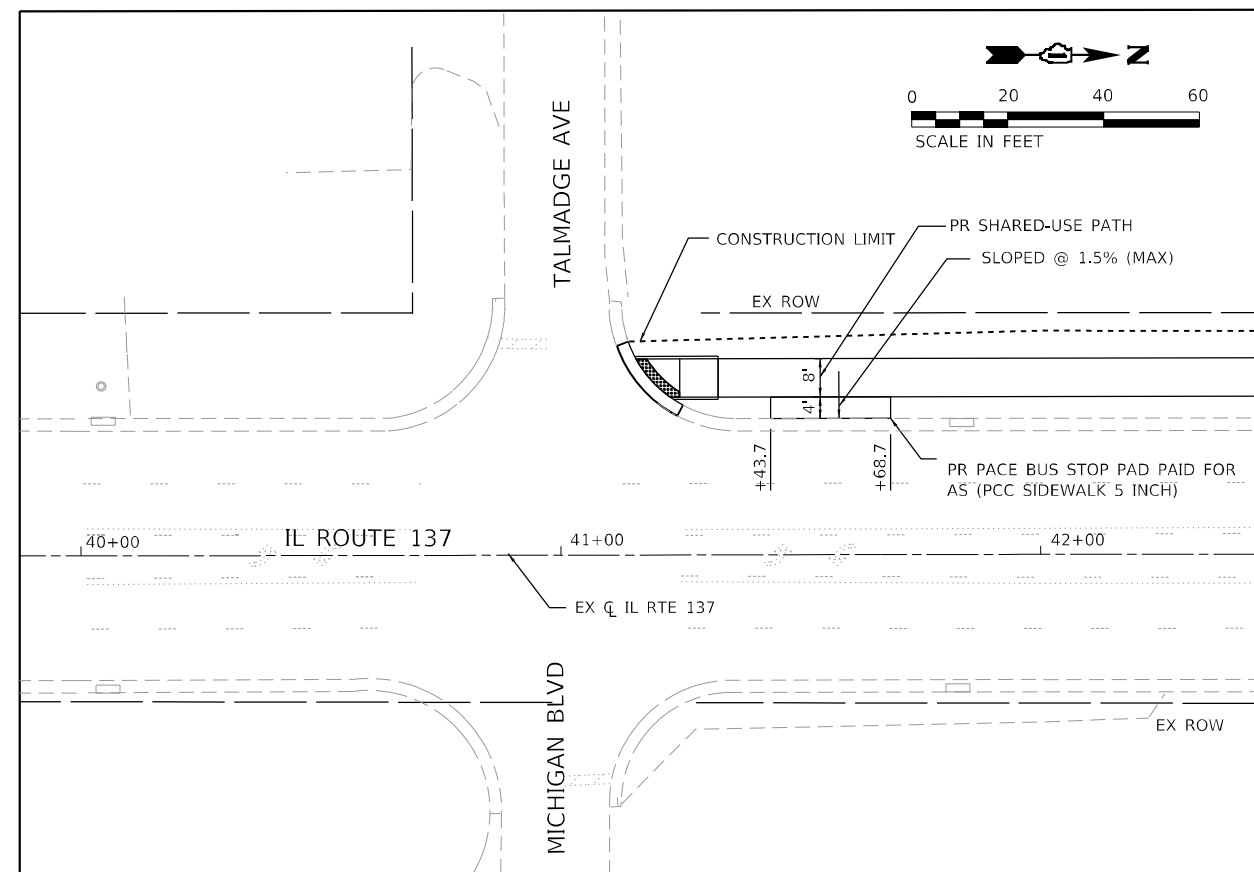
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 (SHERIDAN ROAD) OVER BULL CREEK
INTERSECTION DETAILS

SCALE: 1"=10'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	58
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				



NOTE:

1. CURB & GUTTER TO BE REMOVED PRIOR TO CONSTRUCTING TEMPORARY ACCESS. SEE REMOVAL PLAN FOR OVERALL LIMITS OF CURB & BUTTER REMOVAL.

NOTE:

1. 1.5% MAXIMUM CROSS SLOPE OF BUS STOP PAD

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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 = ---
PLOT DATE = 2/4/2023

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DRAWN - AKW
CHECKED - YOO
DATE - 2-2-23

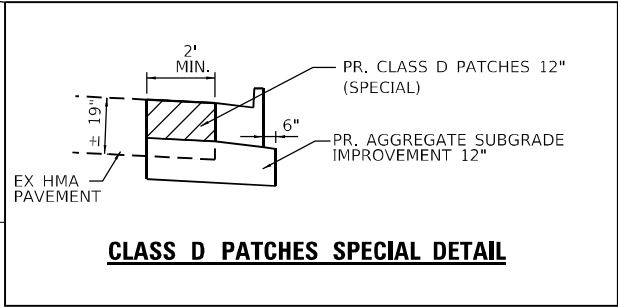
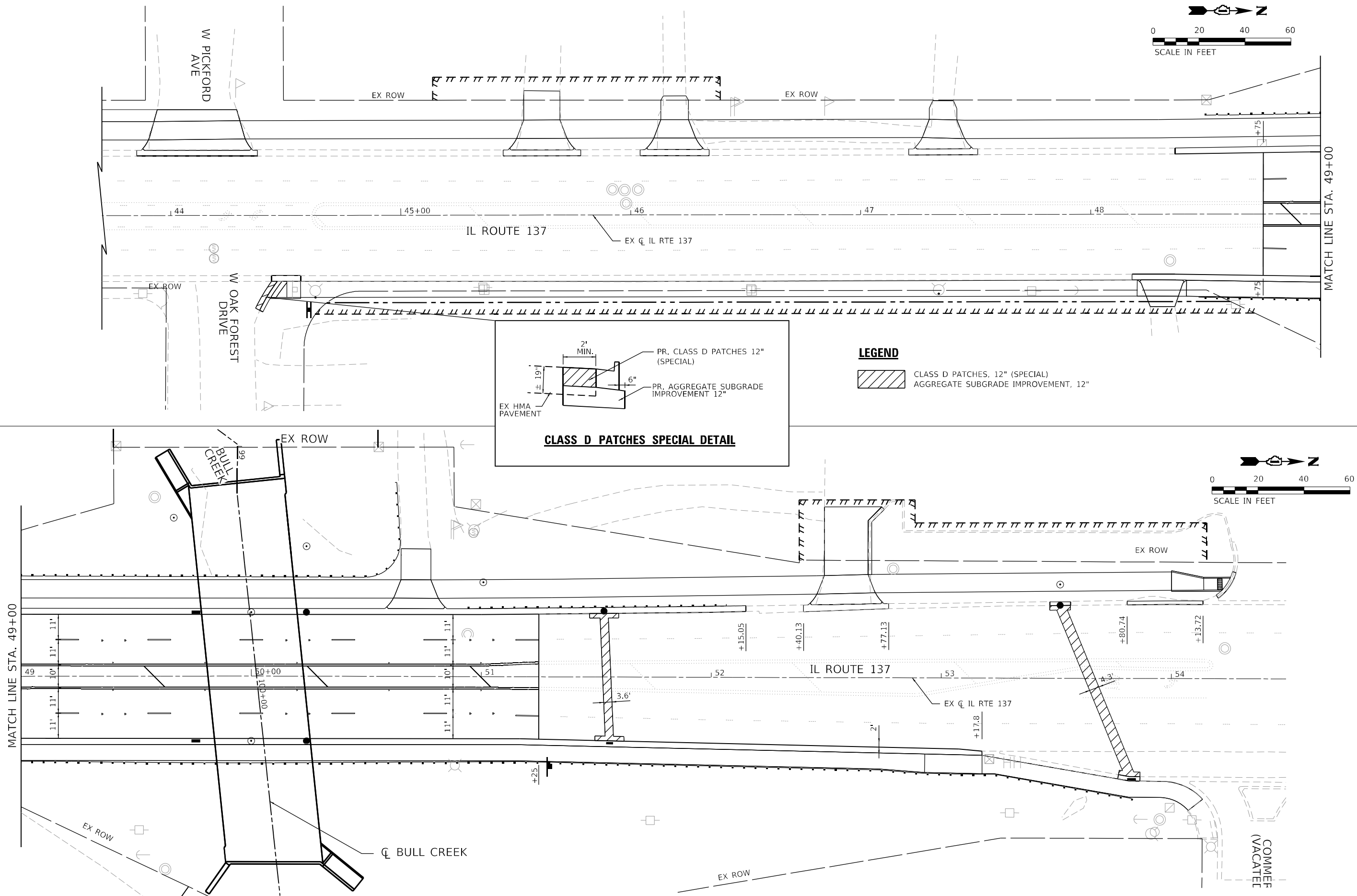
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 137 OVER BULL CREEK CULVERT REPLACEMENT
PAVEMENT PATCHING DETAILS**

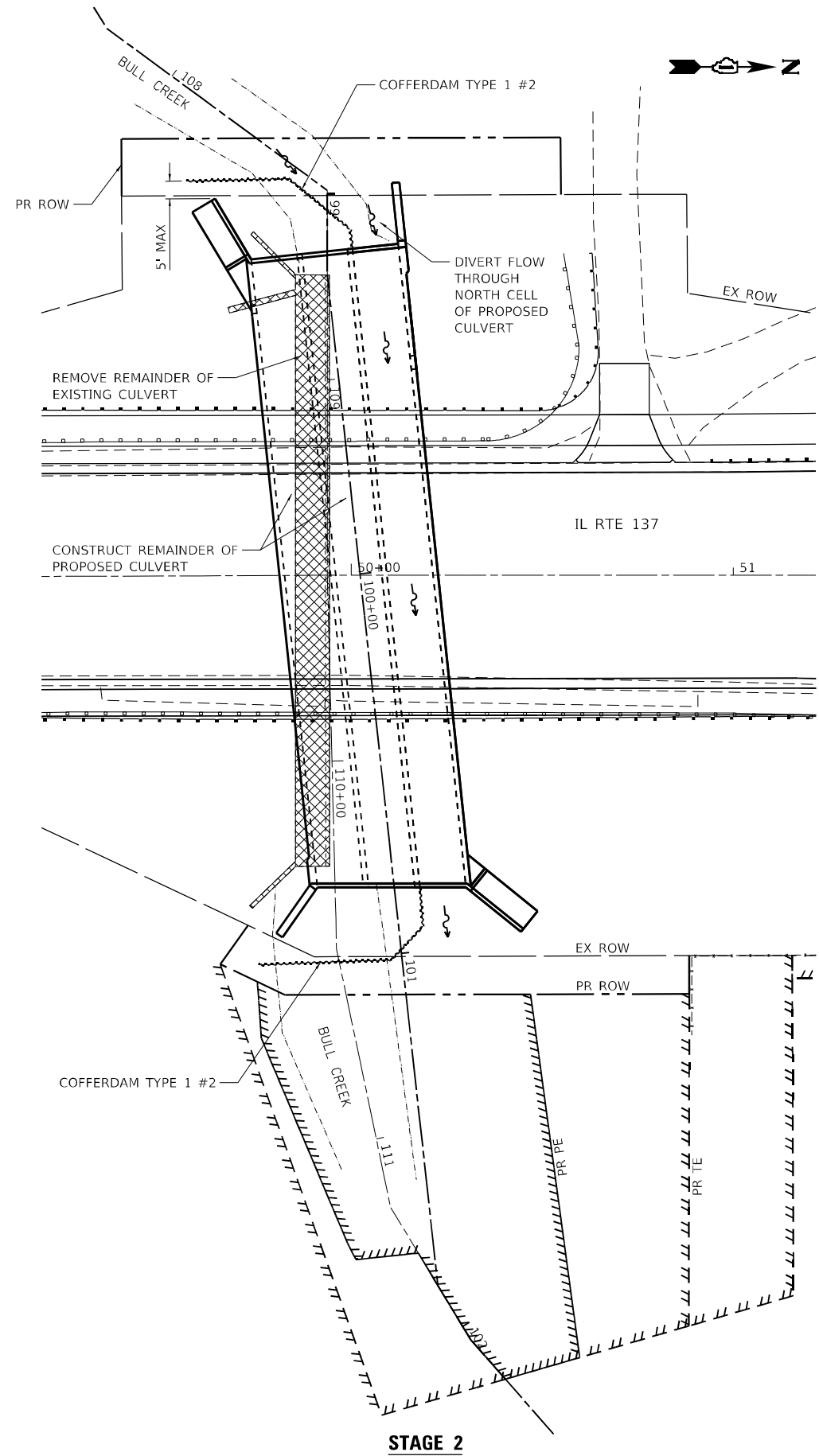
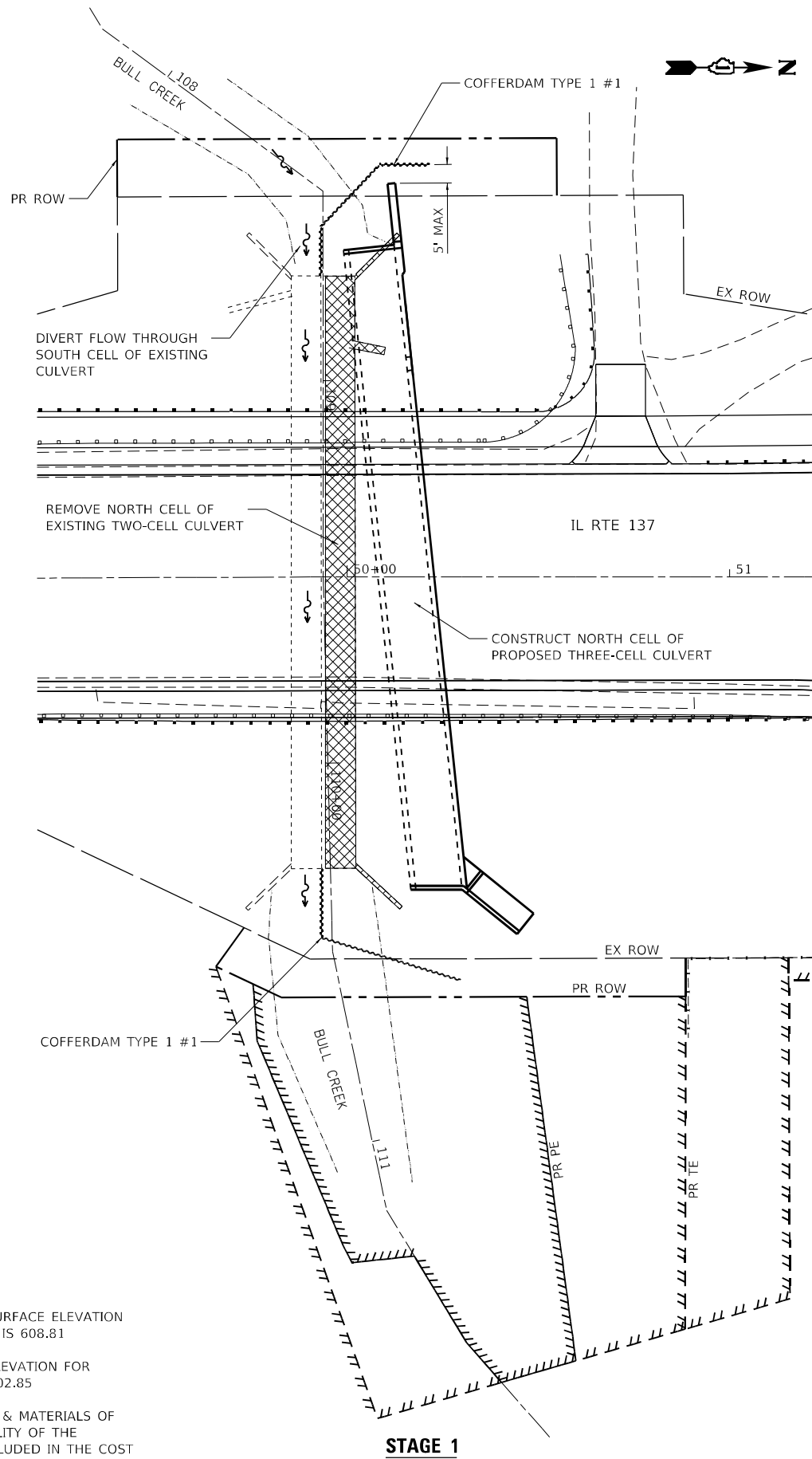
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	60
CONTRACT NO.62141				
ILLINOIS FED. AID PROJECT				



LEGEND

CLASS D PATCHES, 12" (SPECIAL)
AGGREGATE SUBGRADE IMPROVEMENT, 12"



NOTES:

1. STAGE 1: 2-YEAR PEAK WATER SURFACE ELEVATION FOR COFFERDAM CONSTRUCTION IS 608.81
2. STAGE 2: 2-YEAR PEAK WATER ELEVATION FOR COFFERDAM CONSTRUCTION IS 602.85
3. DESIGN & FINAL CONFIGURATION & MATERIALS OF COFFERDAMS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF THE COFFERDAM PAY ITEM

MODEL: 434001.NAMES
FILE NAME: 202303150221_IDOT17TB193\cadd\Civil\Doc\Site\Exhibits\62J41-cofferdams-exhibit.dgn



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

USER NAME = \$USERS	DESIGNED - KAC	REVISED -
	DRAWN - AKW	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KAC	REVISED -
PLOT DATE = 2/4/2023	DATE - \$PDATE\$	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 137 OVER BULL CREEK
RECOMMENDED COFFERDAM STAGING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2019-074-SW&I	LAKE	90	61
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

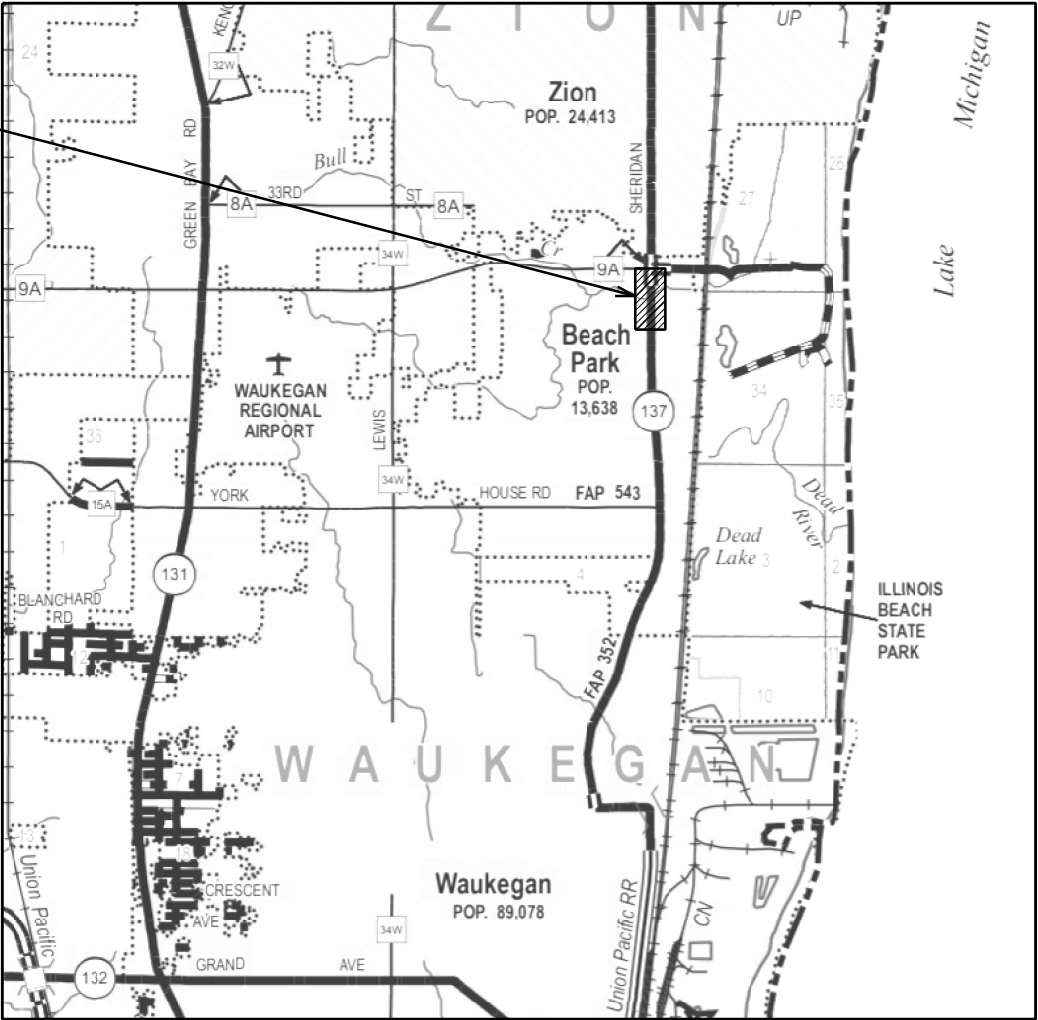
PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
ING0001ITE	VILLAGE OF BEACH PARK, A MUNICIPAL CORPORATION	2	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

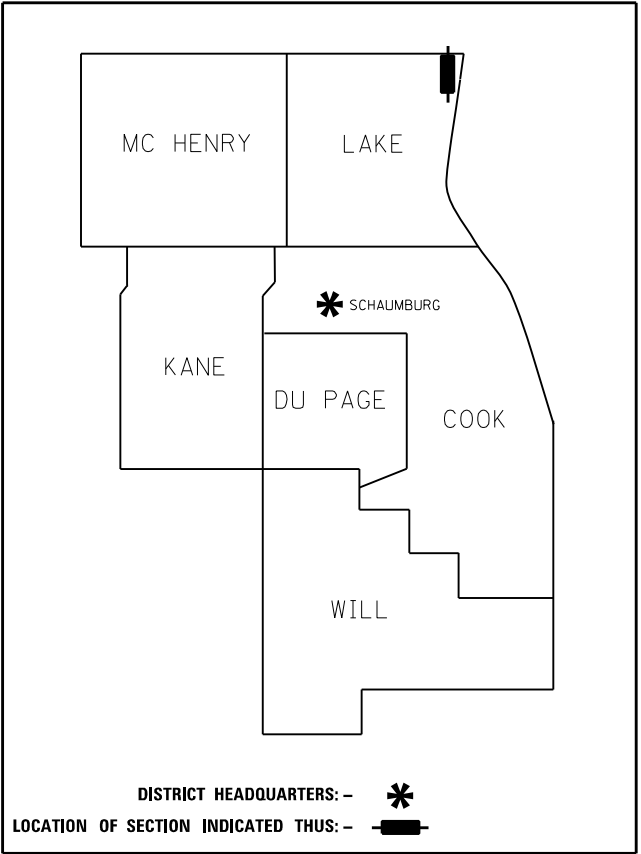
PLAT OF HIGHWAYS

ROUTE: IL 137 (SHERIDAN RD)
SECTION: IL 137 (SHERIDAN RD) OVER BULL CREEK
COUNTY: LAKE
LIMITS: OAK FOREST DR TO PAXTON DR
JOB NO.: R-91-012-18

PROJECT LOCATION



LOCATION MAP

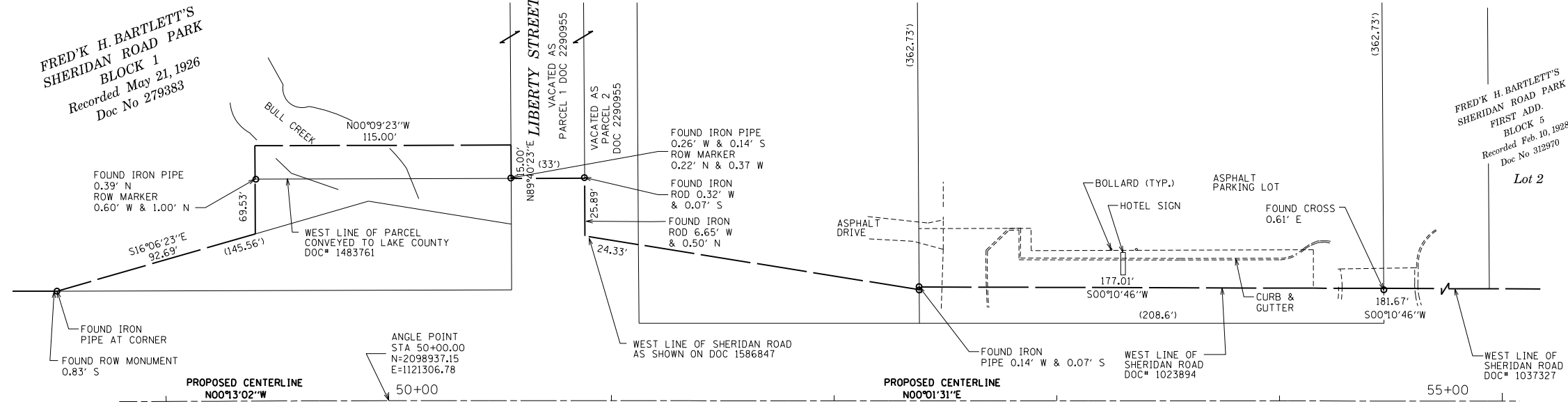


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OF THE STATE OF ILLINOIS

IDOT USE ONLY

APPROVED
By Miguel Contreras at 7:47 am, Jan 12, 2023

PART OF SECTION 27, TWP. 46 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

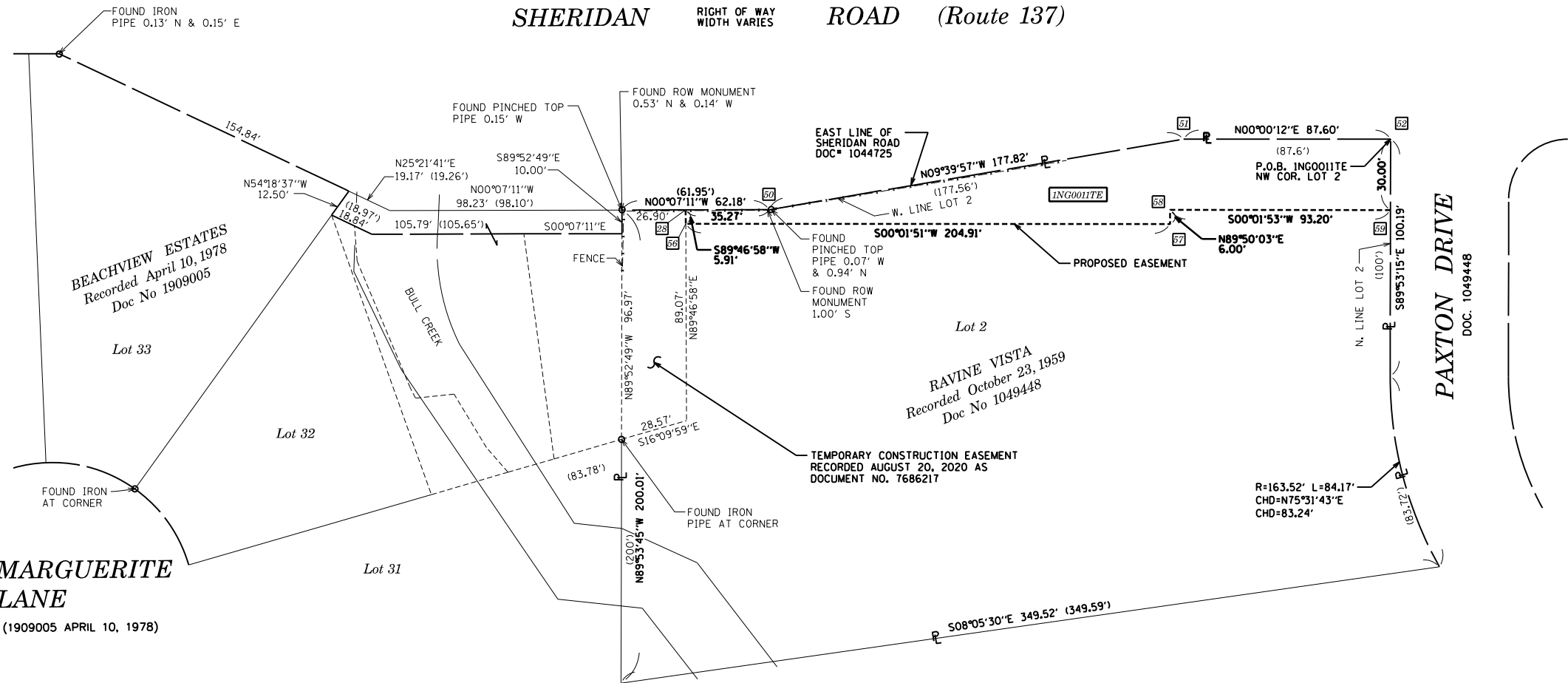


LEGEND

SECTION CORNER
QUARTER CORNER

GRAPHIC SCALE
FEET
0 30'
SCALE: 1" = 30'

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
MEASURED DIMENSION
COMPUTED DIMENSION
RECORDED DIMENSION
EXISTING BUILDING



- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101.02 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

SURVEY NOTES:

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
- ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999971621.
- AREAS SHOWN ON THIS PLAT ARE "GROUND".
- FIELD SURVEY COMPLETED ON MAY 23, 2019.

STATE OF ILLINOIS
COUNTY OF KANE

THIS IS TO CERTIFY THAT WE, ENGINEERING ENTERPRISES INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-002003, HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON IN SECTION 27, TOWNSHIP 46 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SUGAR GROVE, ILLINOIS THIS 7th DAY OF OCTOBER 2022 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3581
LICENSE EXPIRATION DATE: 11/30/24

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

MARGUERITE LANE
(1909005 APRIL 10, 1978)

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
ING00011TE	1.454	0	0	1.454	0.149		04-27-302-011

PROJECT COORDINATES IL. STATE PLANE, EAST ZONE, NAD83 (2011)		
PT#	COORDINATES	STATION/OFFSET
26	N=2099052.55 E=1121406.43	51+15.44 99.60' RT
27	N=2099263.12 E=1121376.50	53+26.00 69.58' RT
28	N=2099350.72 E=1121376.50	54+13.60 69.54' RT
29	N=2099052.57 E=1121412.34	51+15.46 105.51' RT
27	N=2099257.48 E=1121412.45	53+20.37 105.53' RT
28	N=2099257.46 E=1121406.45	53+20.35 99.53' RT
29	N=2099350.66 E=1121406.50	54+13.55 99.54' RT

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ROUTE: IL 137 (SHERIDAN RD) OVER BULL CREEK

LIMITS: OAK FOREST DR TO PAXTON DR COUNTY: LAKE
SECTION: STA. 49+40.26 TO STA. 54+15.14 JOB NO.: R-91-012-18
SCALE: 1" = 30' SHEET 2 OF 2 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

Benchmark: Brass disk in SE quadrant of Wadsworth Road and Union Pacific - North Railroad Tracks at chain link fence corner. Elev. 593.51.

Existing Structure: S.N. 049-0214 was built in the 1930s as a double cell 8'x10' cast-in-place box culvert and extended in 1960 and 1970. The existing culvert measures 154 ft out-to-out headwalls, 19 ft wide and placed on a 0° skew.

The existing roadway to be closed during construction and traffic detoured.

Precast option is not allowed.

No Salvage.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Culvert Plan and Section
4. L-Type Wingwall Details
5. Horizontal Cantilever Wingwall Details
6. Bar Splicer Assembly Details
- 7.-8. Boring Logs
- 9.-11. Existing Plans

WATERWAY INFORMATION

Drainage Area = 5.94 square miles
Existing Overtopping Elev. = 626.55 at Sta. 50+00
Proposed Overtopping Elev. = 626.55 at Sta. 50+00

Flood Event	Freq. Yr.	Discharge (cfs)	Opening (Sq. Ft.)		Nat. H.W.E. (ft.)	Head (ft.)		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1854	110	303	601.51	5.70	0	607.21	601.51
Base	50	2988	129	347	602.73	10.26	0.67	612.99	603.40
Overtopping (E)	100	3619	139	370	603.35	13.91	1.35	617.26	604.70
Overtopping (P)	±250	4800	156		604.41	22.58		626.99	
Max. Calc.	500	6395	160	372	605.66	23.07	7.28	628.73	612.94

10-Year Velocity Through Existing Culvert = 15 fps
10-Year Velocity Through Proposed Culvert = 6.04 fps

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

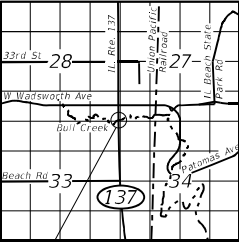
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93

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

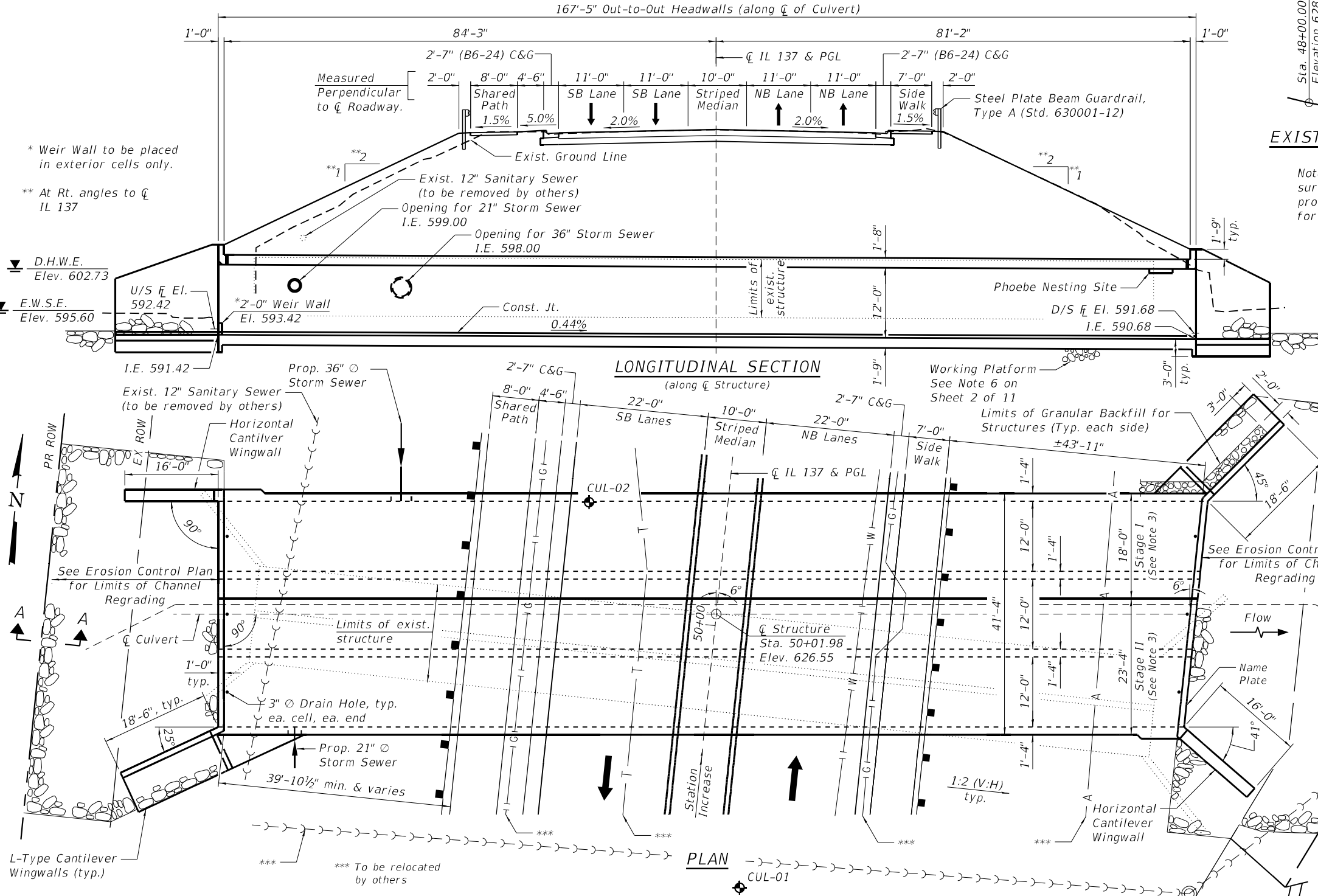
Range 12E, 3rd P.M.



PROPOSED STRUCTURE LOCATION SKETCH

LEGEND

- A — Exist. Aerial
- S — Exist. Sanitary
- T — Exist. Telephone
- W — Exist. Water
- G — Exist. Gas
- B — Prop. Storm Boring Location



APPROVED

For Structural Adequacy Only
Engineer of Bridges & Structures



Signed: [Signature]
Date: 02/02/2023
License Expires: 11/30/2024

- Notes:
1. All existing utilities shown are to be relocated by Others.
 2. For Section A-A, see Sheet 2 of 11.
 3. The Contractor has the option to provide alternative water diversion during construction and eliminate the staging construction. If so, the Contractor shall prepare bar details for the alternative and submit to the Engineer for review and approval.

GENERAL PLAN AND ELEVATION
IL 137 OVER BULL CREEK
FAP ROUTE 352
SECTION 2019-074-SW&I
LAKE COUNTY
STATION 50+01.98
S.N. 049-0700



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

USER NAME = ctacey
PLOT SCALE = 1:20
PLOT DATE = 3/16/2023

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CHECKED - JZ
DRAWN - CPT
CHECKED - JZ

REVISED -
REVISED -
REVISED -
REVISED -

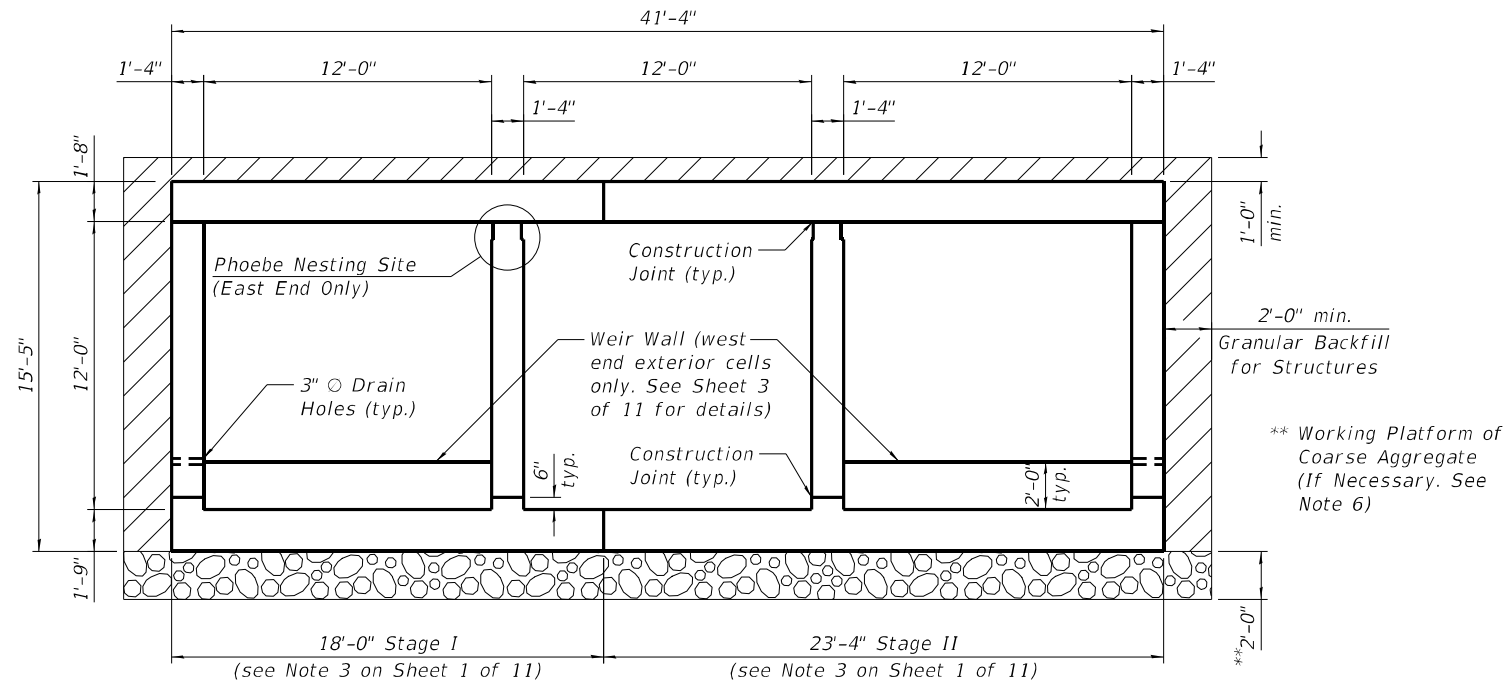
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 049-0700

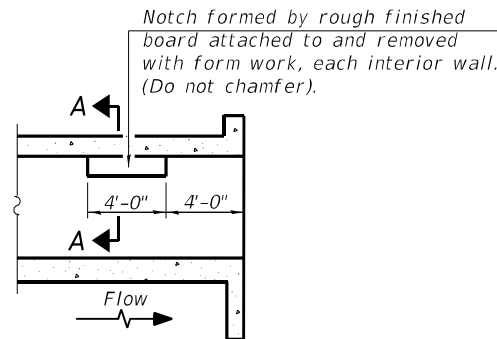
SHEET NO. 1 OF 11 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	64
CONTRACT NO. 62J41				

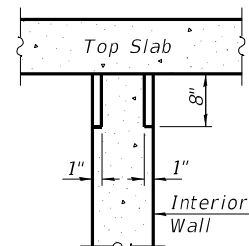
ILLINOIS FED. AID PROJECT



SECTION THRU BARREL
(West End Shown)



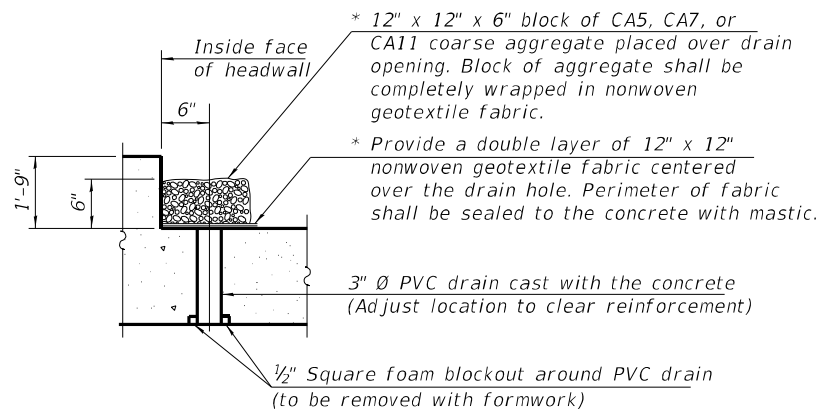
LONGITUDINAL
SECTION



SECTION A-A

PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

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



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.)

TOTAL BILL OF MATERIAL

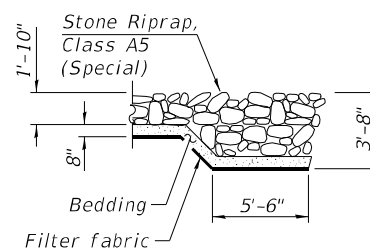
ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	5,496
Reinforcement Bars, Epoxy Coated	Pound	433,880
Bar Splicers	Each	1,370
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	1,365.0
Granular Backfill for Structures	Cu. Yd.	739
Stone Riprap, Class A5 (Special)	Sq. Yd.	1,085
Rockfill	Cu. Yd.	627

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 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.
- Per the Structure Geotechnical Report dated August 26, 2020, "At the culvert base elevations, the borings show suitable soil conditions to construct the culvert. However, the Contractor may need to create a working platform to properly construct the culvert bottom slab. The Field Engineer should make the determination that a working platform is required during excavation based on the field conditions." If a 2 ft. working platform is required, it shall be paid for as Rockfill in accordance with the Special Provisions.
- Existing timber piles shall be cut a minimum of 2 ft. below the bottom of the proposed toe walls.
- See Special Provision for Stone Riprap, Class A5 (Special) for riprap requirements.

STATION 50+01.98
BUILT 202X BY
STATE OF ILLINOIS
F.A.P. RTE. 352
SEC. 2019-074-SW&I
LOADING HL-93
STR. NO. 049-0700

NAME PLATE
See Std. 515001



SECTION A-A
See Note 8.

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

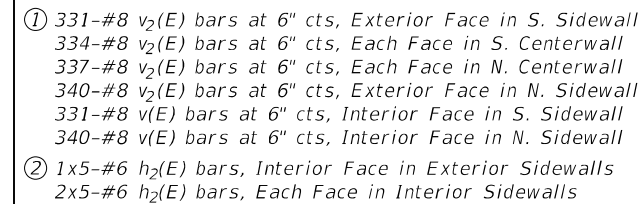
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 049-0700

SHEET NO. 2 OF 11 SHEETS

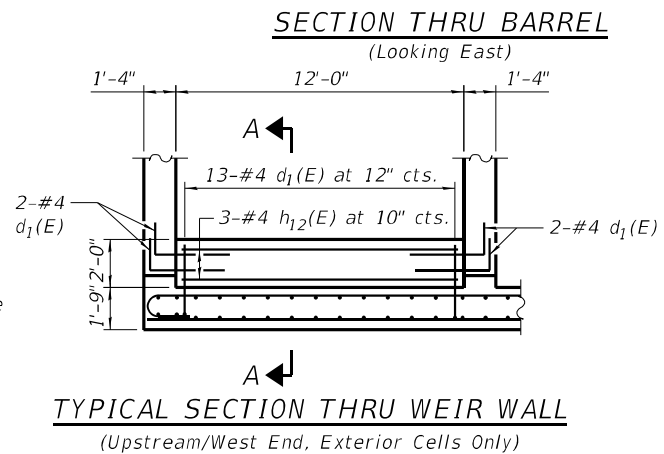
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	65
CONTRACT NO. 62141				
ILLINOIS FED. AID PROJECT				



#6 Bar = 4'-4"
#8 Bar = 5'-1"
#9 Bar = 7'-1"

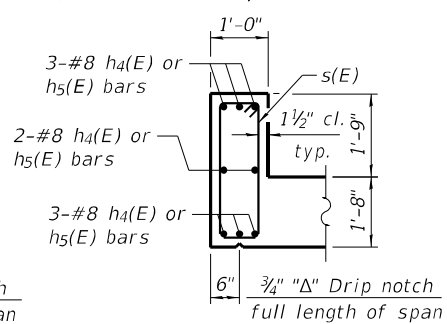
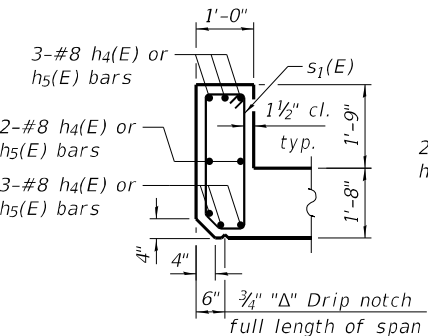
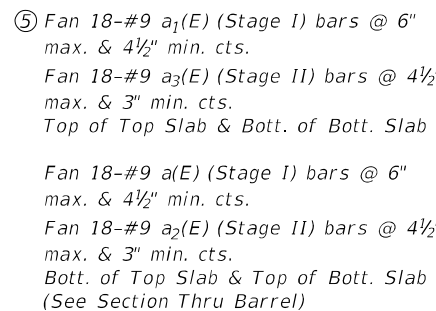
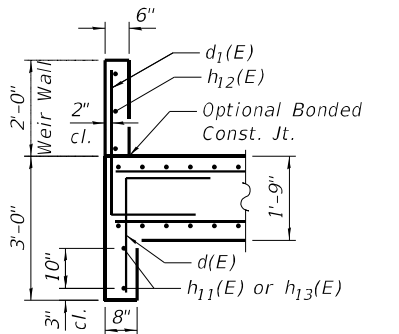
LEGEND

E.F. = Each Face
I.F. = Interior Face
S. = South
N. = North



SECTION A-A

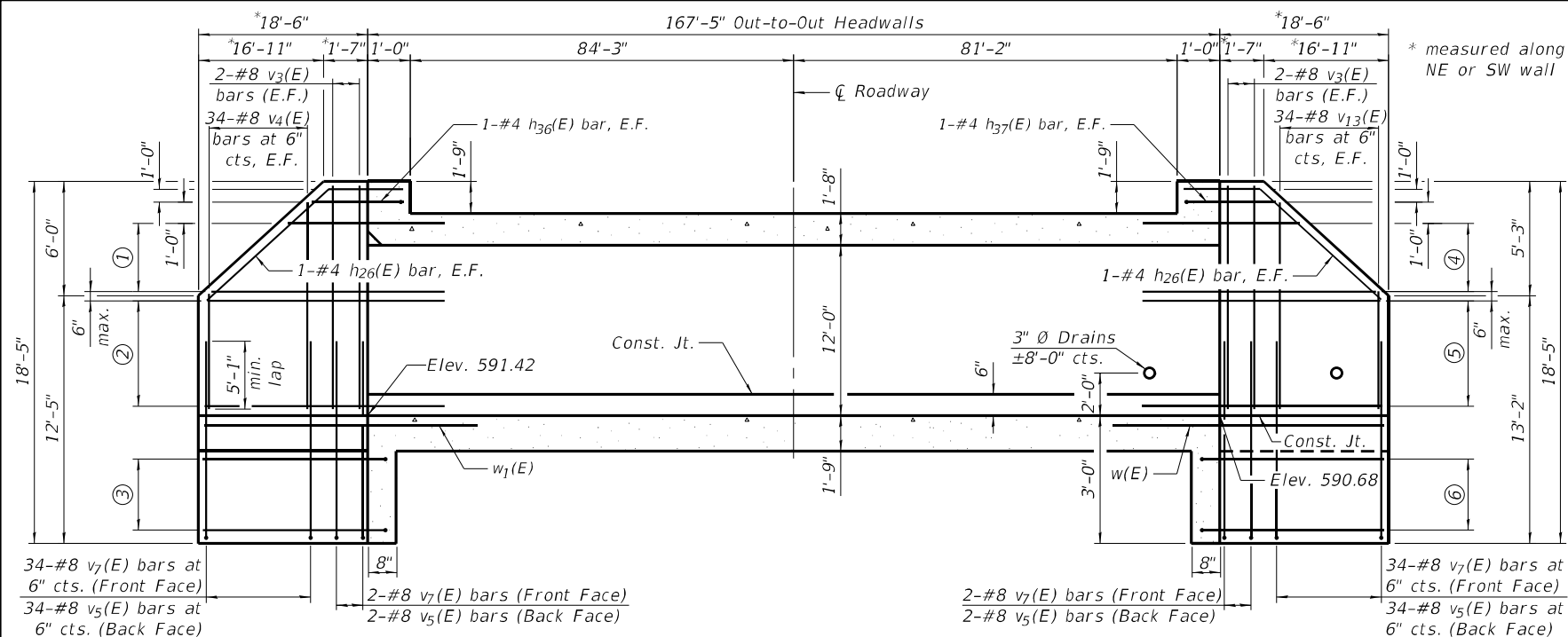
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SECTIONS THRU HEADWALL

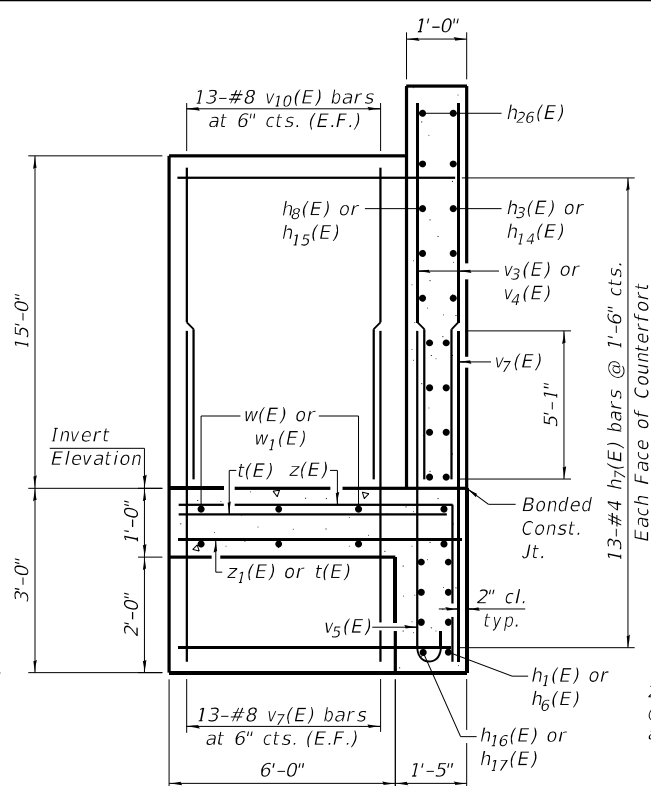
NOTES:

1. A minimum distance of eight (8) feet of the barrel shall be poured monolithically with the NW & SE wingwalls.
2. Bars designated thus 24x5-#6 etc. indicates 24 lines of bars with 5 lengths per line.
3. At the Contractor's option, a longer $v_1(E)$ bar may be ordered to replace the $v(E)$ bar. No reduction in quantities shall be made for this substitution.
4. See Sheet 4 of 11 for L-Type Cantilever (NE & SW wingwalls) details and reinforcement layout.
5. See Sheet 5 of 11 for Horizontal Cantilever (NW & SE wingwalls) details and reinforcement layout, bar bending and field cutting diagrams, and Bill of Material.

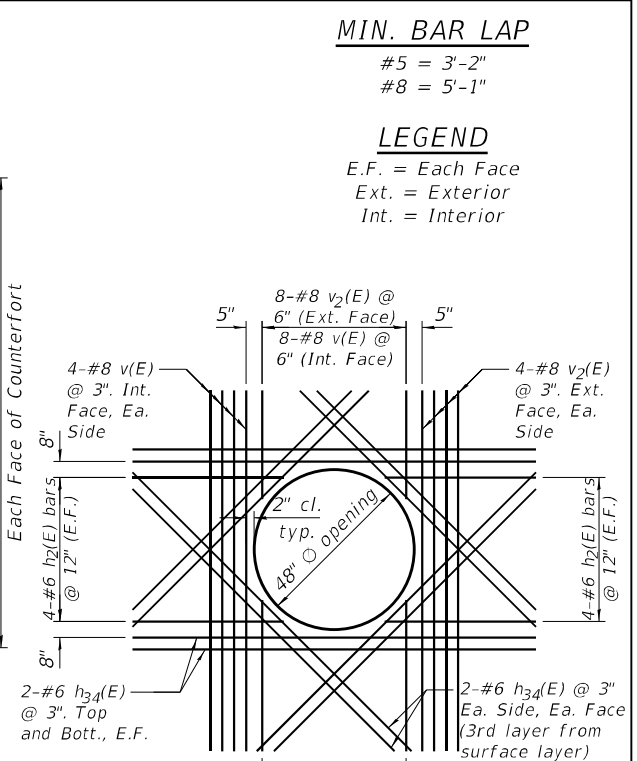


LONGITUDINAL SECTION

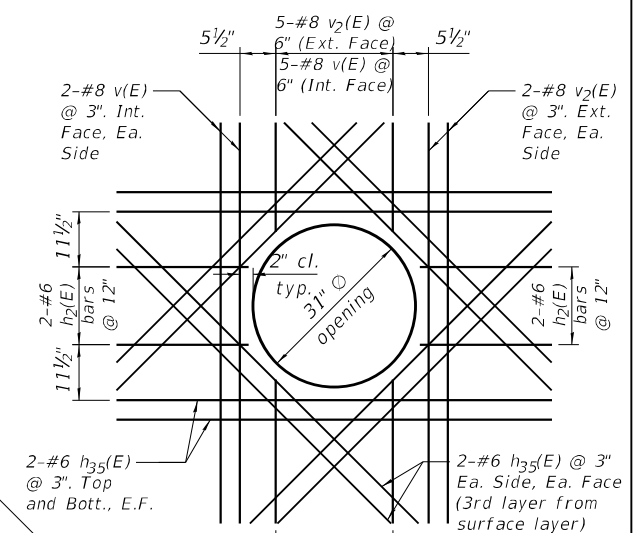
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(Barrel Reinforcement Omitted for Clarity)



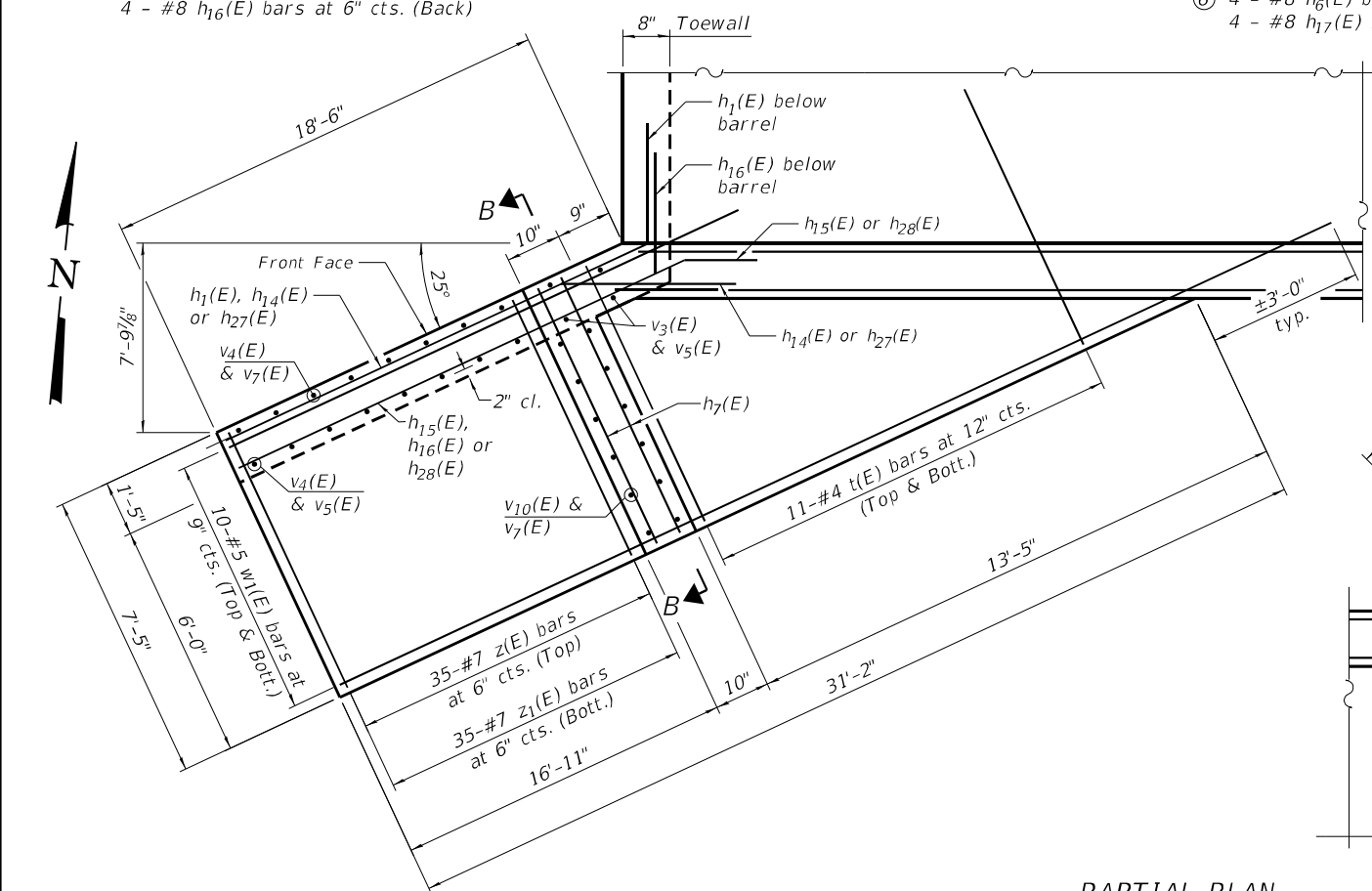
SECTION B-B



DETAIL A

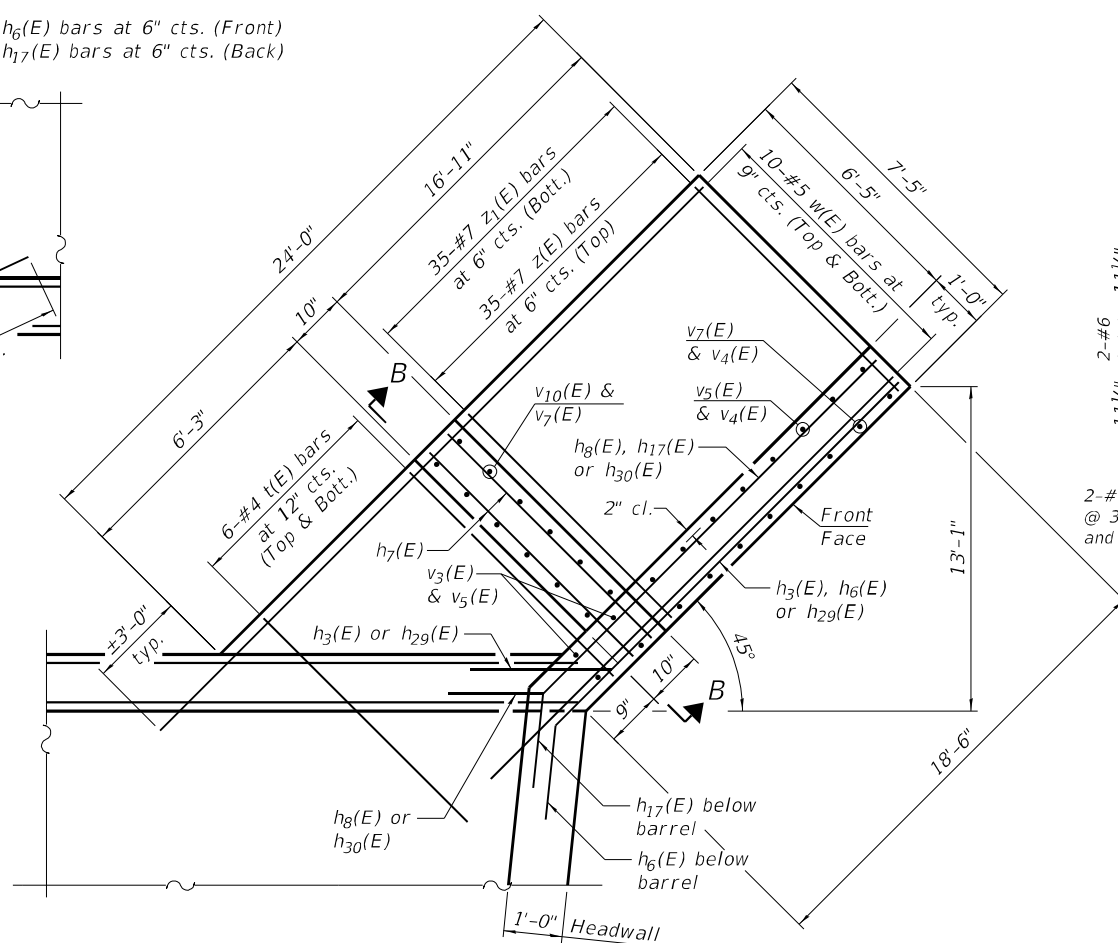


DETAIL B



PARTIAL PLAN

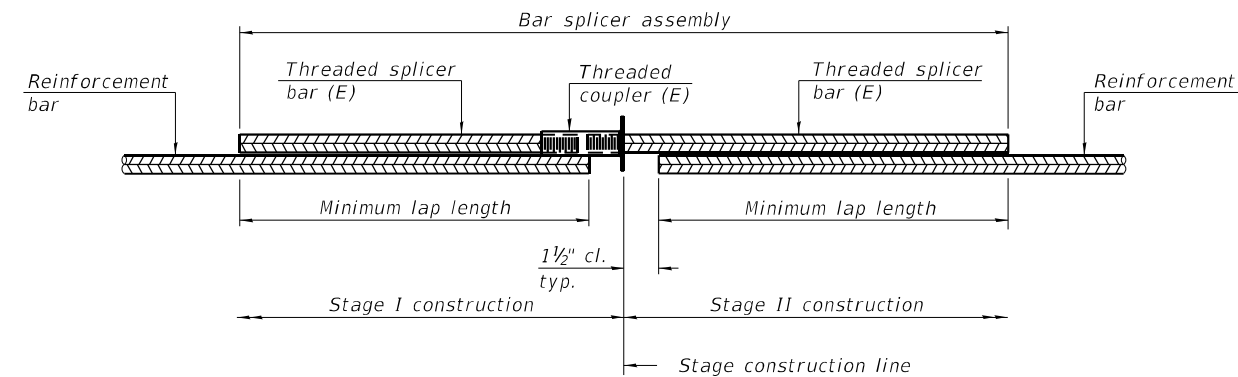
(Showing SW and NE Wingwalls)



SHOWING HEADWALL

- NOTES

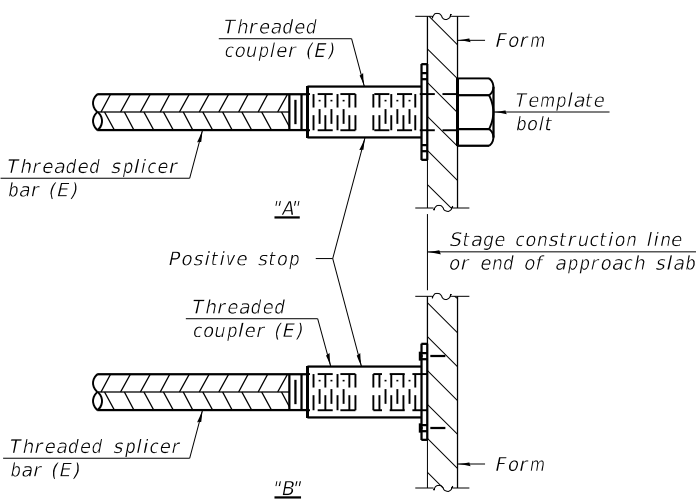
1. See Sheet 3 of 11 for barrel details, reinforcement layout, and location of Details A & B.
2. See Sheet 5 of 11 for Horizontal Cantilever Wingwall details and reinforcement layout, bar bending and field cutting diagrams, and Bill of Material.



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

Threaded splicer bar length = min. lap length + 1½" + thread length

Location	Bar size	No. assemblies required	Minimum lap length
Top of Top Slab	#9	336	7'-1"
Bottom of Top Slab	#9	336	6'-3"
Top of Bottom Slab	#9	340	7'-1"
Bottom of Bottom Slab	#9	338	6'-3"
Upstream Headwall	#8	8	8'-2"
Downstream Headwall	#8	8	8'-2"
Upstream Toe Wall	#4	2	2'-7"
Downstream Toe Wall	#4	2	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.

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FILE NAME = Z:\2019\190221 IDOT\B133\cadd\Structure\1\Drawn\0490700-62141-007-BL-log1.dgn



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Fax: 6309539938

BORING LOG 0214-CUL-01

WEI Job No.: 555-15-05

Client **Illinois Department of Transportation**
Project **IL Route 137 (Sheridan Road) over Bull Creek**
Location **Beach Park, Lake County, IL**

Datum: NGVD
Elevation: 626.95 ft
North: 2098886.12 ft
East: 1121314.28 ft
Station: 49+48.95
Offset: 7.3 RT

Page 1 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	626.5	6-inch thick ASPHALT --PAVEMENT--															
	625.5	12-inch thick, CONCRETE --PAVEMENT--															
		Medium dense to very dense, brown, medium SAND --FILL--			1	8 11 12	NP	6						9	1 2 3	NP	8
			5		2	12 14 11	NP	7				25		10	2 3 3	NP	9
	620.3	Medium dense, brown SANDY LOAM, trace gravel --FILL--			3	13 45 40	NP	11		601.5	Loose, dark brown ORGANIC SILTY LOAM and wood fibers			11	2 3 4	NP	80
			10		4	8 8 6	NP	14		599.0	Dense to very dense, gray SILT			12	4 13 21	NP	16
					5	5 9 8	NP	14				30					
	614.0	Very loose to loose, brown, medium SAND, trace gravel --FILL--			6	4 4 5	NP	8			--%Gravel=0.3-- --%Sand=8.6-- --%Silt=82.1-- --%Clay=9.0-- --A-4-(0)--			13	19 32 38	NP	15
			15		7	2 1 2	NP	9									
					8	2 1 2	NP	11			--Moist--	40		14	14 19 29	NP	20

GENERAL NOTES

Begin Drilling **10-29-2015** Complete Drilling **10-29-2015**
Drilling Contractor **WTS** Drill Rig
Driller **R&R** Logger **FB** Checked by **ND**
Drilling Method **2.25" HSA to 25', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **DRY**
At Completion of Drilling **10' MUD**
Time After Drilling
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 0214-CUL-01

WEI Job No.: 555-15-05

Client **Illinois Department of Transportation**
Project **IL Route 137 (Sheridan Road) over Bull Creek**
Location **Beach Park, Lake County, IL**

Datum: NGVD
Elevation: 626.95 ft
North: 2098886.12 ft
East: 1121314.28 ft
Station: 49+48.95
Offset: 7.3 RT

Page 2 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.2	Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel															
			45		15	10 9 11	5.41 B	12									
			50		16	17 29 32	6.40 S	10									
			55		17	14 17 28	10.25 B	14									
			60		18	17 28 50/4	10.25 B	10									
	567.0	Boring terminated at 60.00 ft															

GENERAL NOTES

Begin Drilling **10-29-2015** Complete Drilling **10-29-2015**
Drilling Contractor **WTS** Drill Rig
Driller **R&R** Logger **FB** Checked by **ND**
Drilling Method **2.25" HSA to 25', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **DRY**
At Completion of Drilling **10' MUD**
Time After Drilling
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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

USER NAME = kcourtassi
PLOT SCALE = 1:16
PLOT DATE = 2/4/2023

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

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
STRUCTURE NO. 049-0700

SHEET NO. 7 OF 11 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	70
CONTRACT NO. 62141				
ILLINOIS FED. AID PROJECT				

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BORING LOG 0214-CUL-02

WEI Job No.: 555-15-05

Client **Illinois Department of Transportation**
Project **IL Route 137 (Sheridan Road) over Bull Creek**
Location **Beach Park, Lake County, IL**

Datum: NGVD
Elevation: 626.96 ft
North: 2098955.93 ft
East: 1121283.15 ft
Station: 50.18.77
Offset: 23.6 LT

Page 1 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick ASPHALT --PAVEMENT--															
	625.5	Medium dense to dense, brown medium SAND to GRAVELLY SAND --FILL--			1	8 9 22	NP	6		604.0	--Concrete obstruction at 22', offset 10' north--			9	4 6 50/2	NP	14
			5		2	5 10 10	NP	7			Very loose to loose, brown and gray, medium SAND, trace gravel --Wet--	25		10	4 3 3	NP	8
					3	7 7 16	NP	10			--%Gravel=3.6-- --%Sand=77.4-- --%Silt=14.2-- --%Clay=4.8-- --A-2-4-(0)-- --Saturated--			11	2 3 3	NP	16
	617.7	Medium stiff, brown CLAY LOAM --FILL--	10		4	5 6 5	NA					30		12	2 1 1	NP	22
	615.5	Loose, brown SANDY GRAVEL --FILL--			5	3 3 3	0.75 P	20		595.2	Loose, gray SILTY LOAM, trace organic matter and wood fragments						
	614.0	Loose, brown, fine to medium SAND, trace gravel --FILL--	15		6	2 1 1	NP	9				35		13	5 2 2	NP	31
		--Moist--			7	2 2 2	NP	12		590.2	Dense, gray SILTY LOAM to SILT, trace gravel						
		--Wet--	20		8	4 3 3	NP	13				40		14	11 20 25	NP	14

GENERAL NOTES

Begin Drilling **10-28-2015** Complete Drilling **10-28-2015**
Drilling Contractor **WTS** Drill Rig
Driller **R&R** Logger **FB** Checked by **ND**
Drilling Method **2.25" HSA to 18', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **18.00 ft**
At Completion of Drilling **10' MUD**
Time After Drilling **NA**
Depth to Water **NA**
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 0214-CUL-02

WEI Job No.: 555-15-05

Client **Illinois Department of Transportation**
Project **IL Route 137 (Sheridan Road) over Bull Creek**
Location **Beach Park, Lake County, IL**

Datum: NGVD
Elevation: 626.96 ft
North: 2098955.93 ft
East: 1121283.15 ft
Station: 50.18.77
Offset: 23.6 LT

Page 2 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.2	Hard, gray SILTY CLAY LOAM, trace gravel --L _c (%)=20, P _L (%)=12--			15	13 20 31	7.30 S	10									
			45														
					16	29 38 50/4	10.25 B	9									
	575.2	Very dense, gray SILT --Wet--	50														
					17	30 38 50/5	NP	19									
	570.2	Hard, gray SILTY CLAY LOAM, trace gravel	55														
					18	25 35 40	9.02 S	11									
	567.0	Boring terminated at 60.00 ft	60														

GENERAL NOTES

Begin Drilling **10-28-2015** Complete Drilling **10-28-2015**
Drilling Contractor **WTS** Drill Rig
Driller **R&R** Logger **FB** Checked by **ND**
Drilling Method **2.25" HSA to 18', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **18.00 ft**
At Completion of Drilling **10' MUD**
Time After Drilling **NA**
Depth to Water **NA**
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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

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PLOT DATE = 2/4/2023

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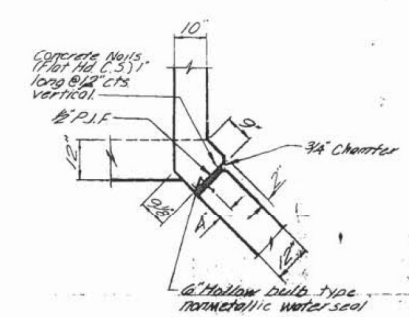
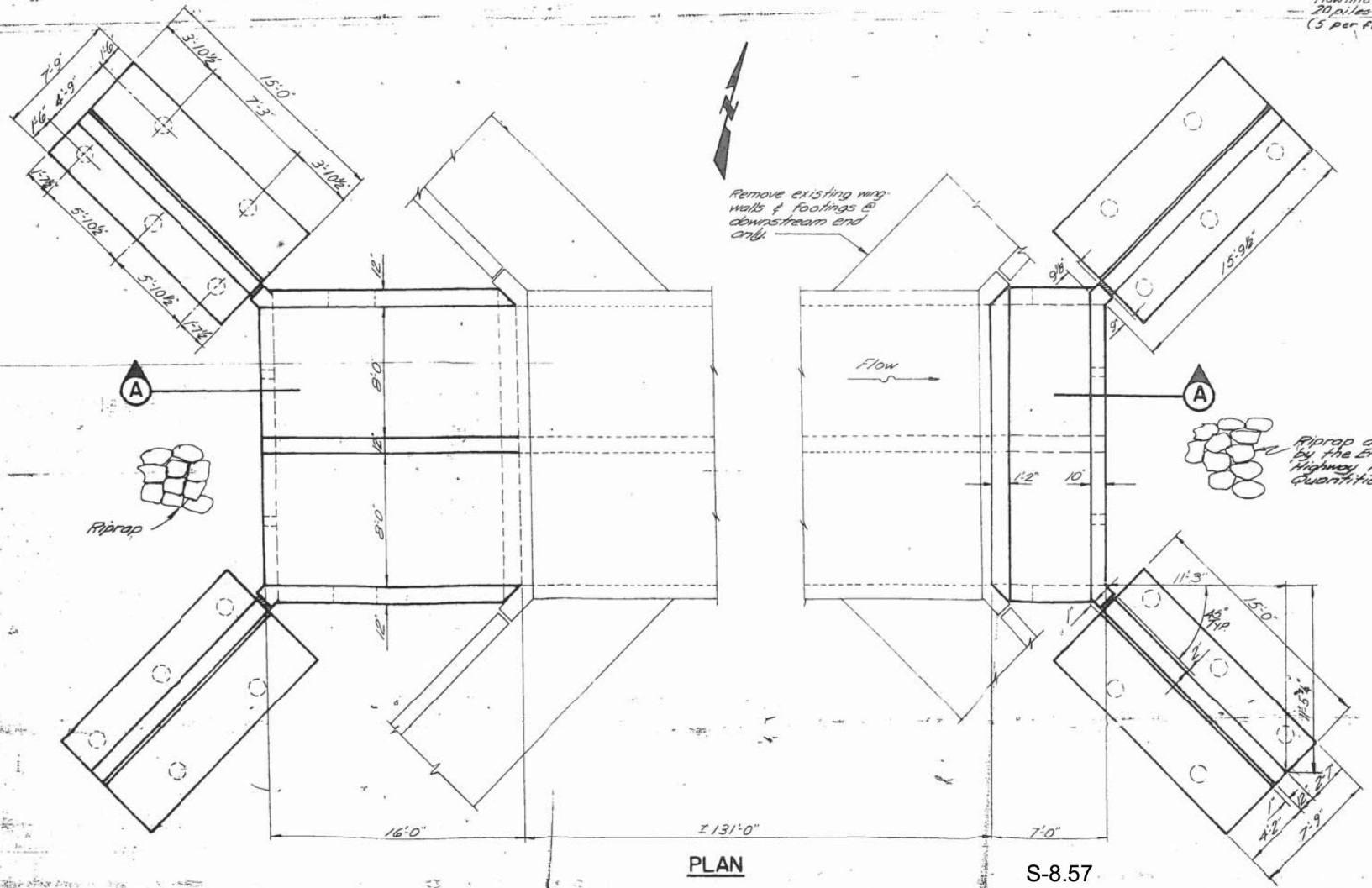
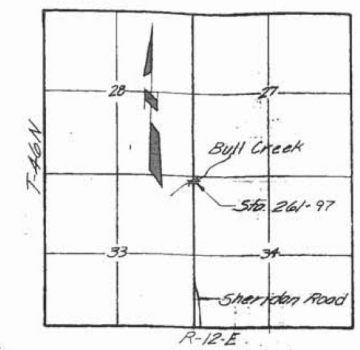
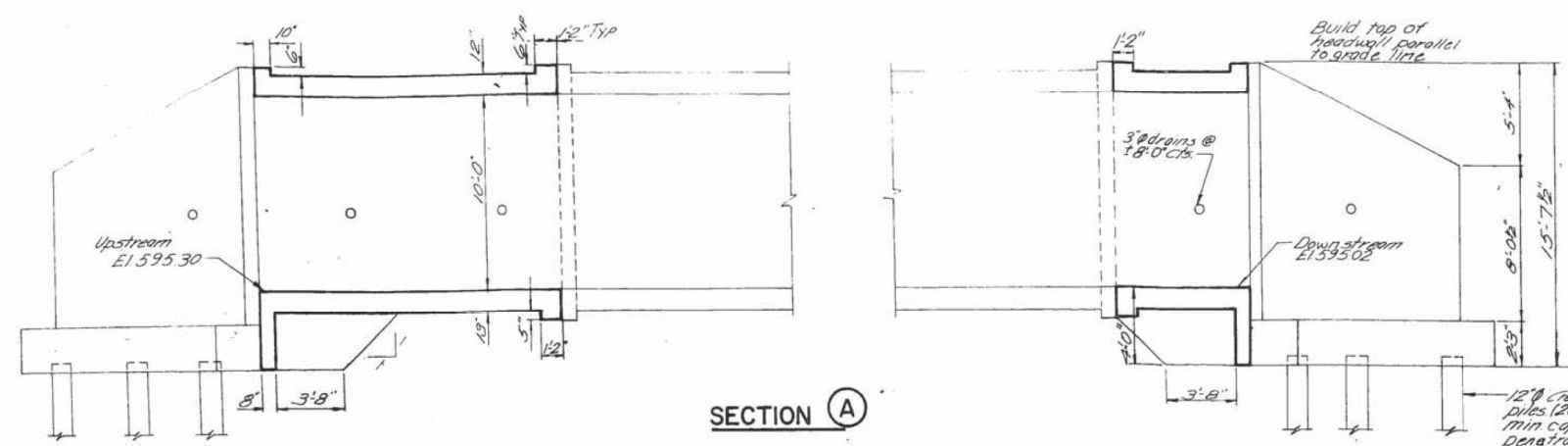
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS II
STRUCTURE NO. 049-0700

SHEET NO. 8 OF 11 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	71
CONTRACT NO. 62141				
ILLINOIS FED. AID PROJECT				



ROUTE NO.	SECTION	COUNTY	STATE
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STA.	TO STA.		
FED. ROAD DIST. NO. 7	LELAND	PROJECT	

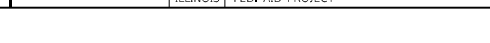
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Ground Surface 6262 EL	N	QU	W
Brown SANDY LOAM fill	5	24	9
		9	10
	10	3	11
	15	4	9
	20	5	12
EL 6037			
Brown fine to medium SAND fill	25	8	20 19
		6	15
EL 5977			
	30	8	21 24
		5	16 28
Gray fine SAND with silt and wood particles alluvium	35	3	122
		4	10 27
	40	10	15
EL 5852			
Gray SAND-BRAZIL alluvium			
EL 5835		24	6 24
Gray SILTY CLAY LOAM with pebbles & sandy silt seams fill	45	38	22
		40	18 25
Gray SILTY CLAY LOAM with pebbles & sandy silt seams fill	50	104	90 16
		61	97 15
	55	118	84 21
EL 5702-End of boring			
	60		

SOIL BORING #1
(101681 7 18)
(5th 361-B)
FEB. 12, 1970

REINFORCED CONCRETE BOX
CULVERT EXTENSION
A.R. STA. 261+97
SKEW = 0°

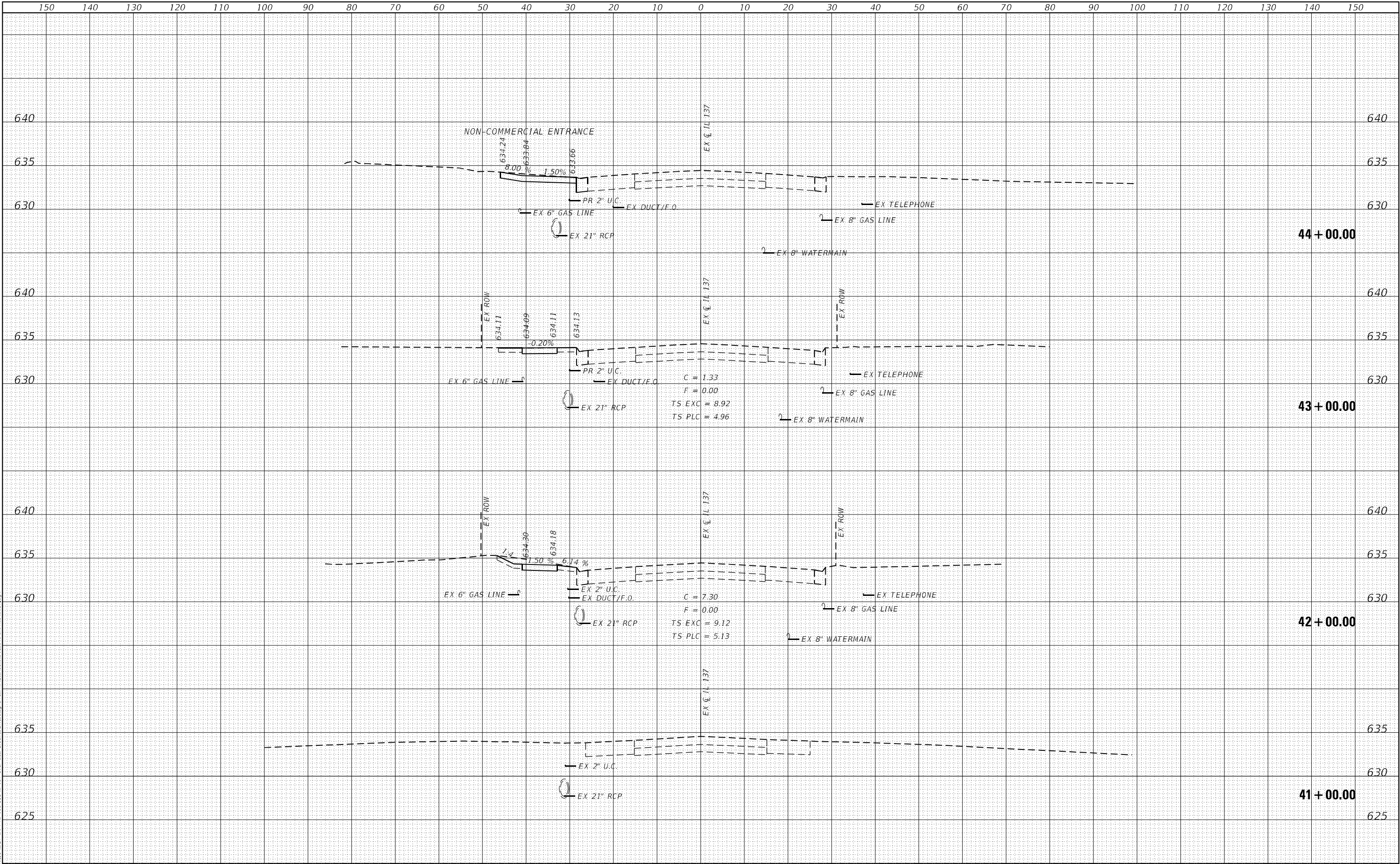
CLARK, DIETZ AND ASSOCIATES - ENGINEERS, INC. Sheet No. 1 of 1 JOB NO. 1000



FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK		
AREAS CHECKED		

MODEL Default
FILE NAME: 23-0003_00 DOT D1 P1B 193-008 IL 137 Over Bull Creek (2020) Design (Prelim) Post-Header (D162) 41-sh-xx-c-IL 137.dgn



EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
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PLOT DATE = 2/3/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

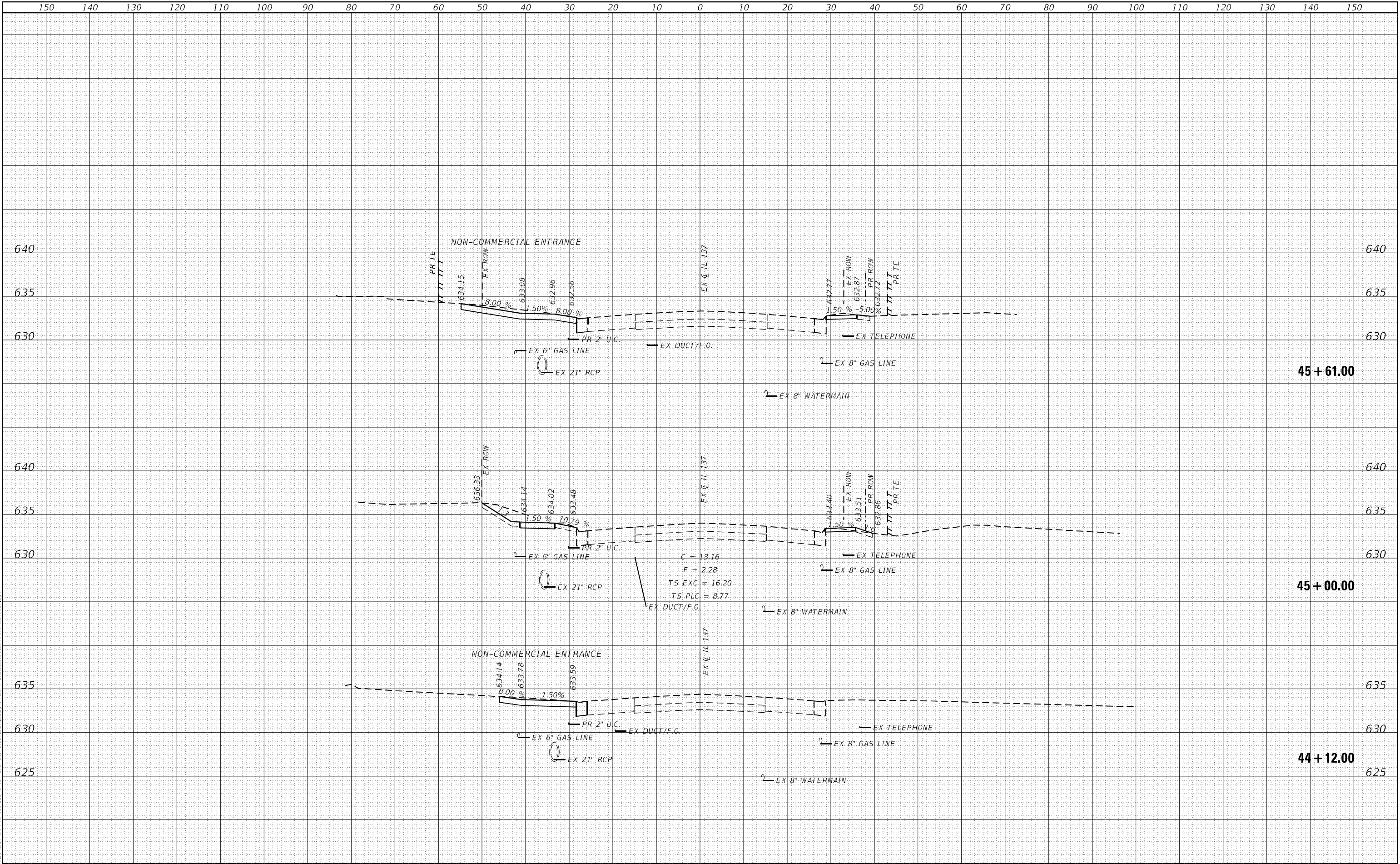
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	75
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
FILE NAME: 23-003_1.00 DOT D1_PFB 193-008 IL 137 Over Bull Creek (DGN Design) (Sheet) (Sheet) (D162) 141-sh-xx-c-41137.dgn



EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JH	REVISED -
PLOT DATE = 2/3/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

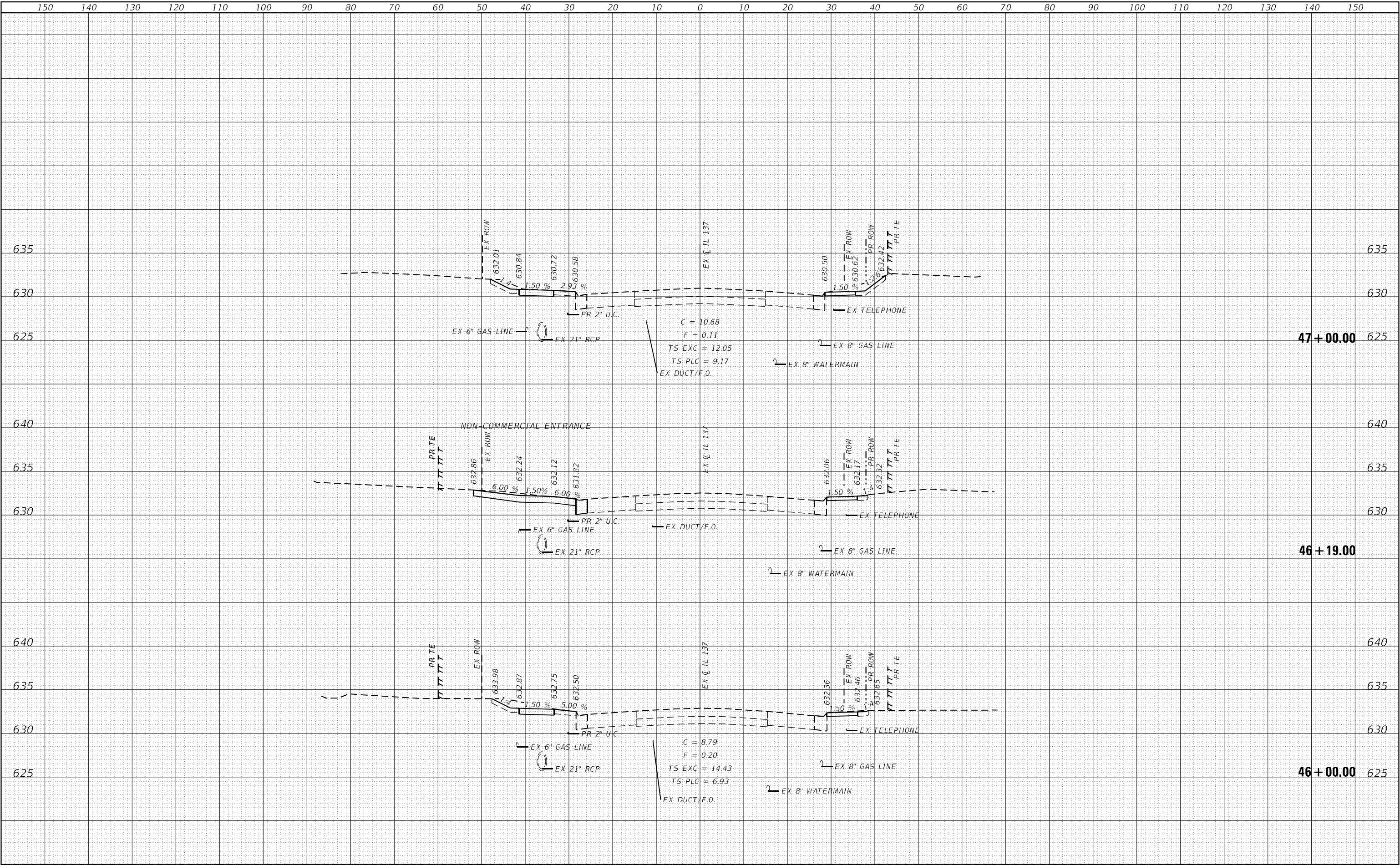
SCALE: SHEET OF SHEETS STA. 44+12.00 TO STA. 45+61.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	76
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
FILE NAME: 2/3/2023_IL 137 Over Bull Creek (D:\Design\Illinois\Bates\162141-oh-acc-IL 137.dgn)



EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000' = 1"	CHECKED - JH	REVISED -
PLOT DATE = 2/3/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

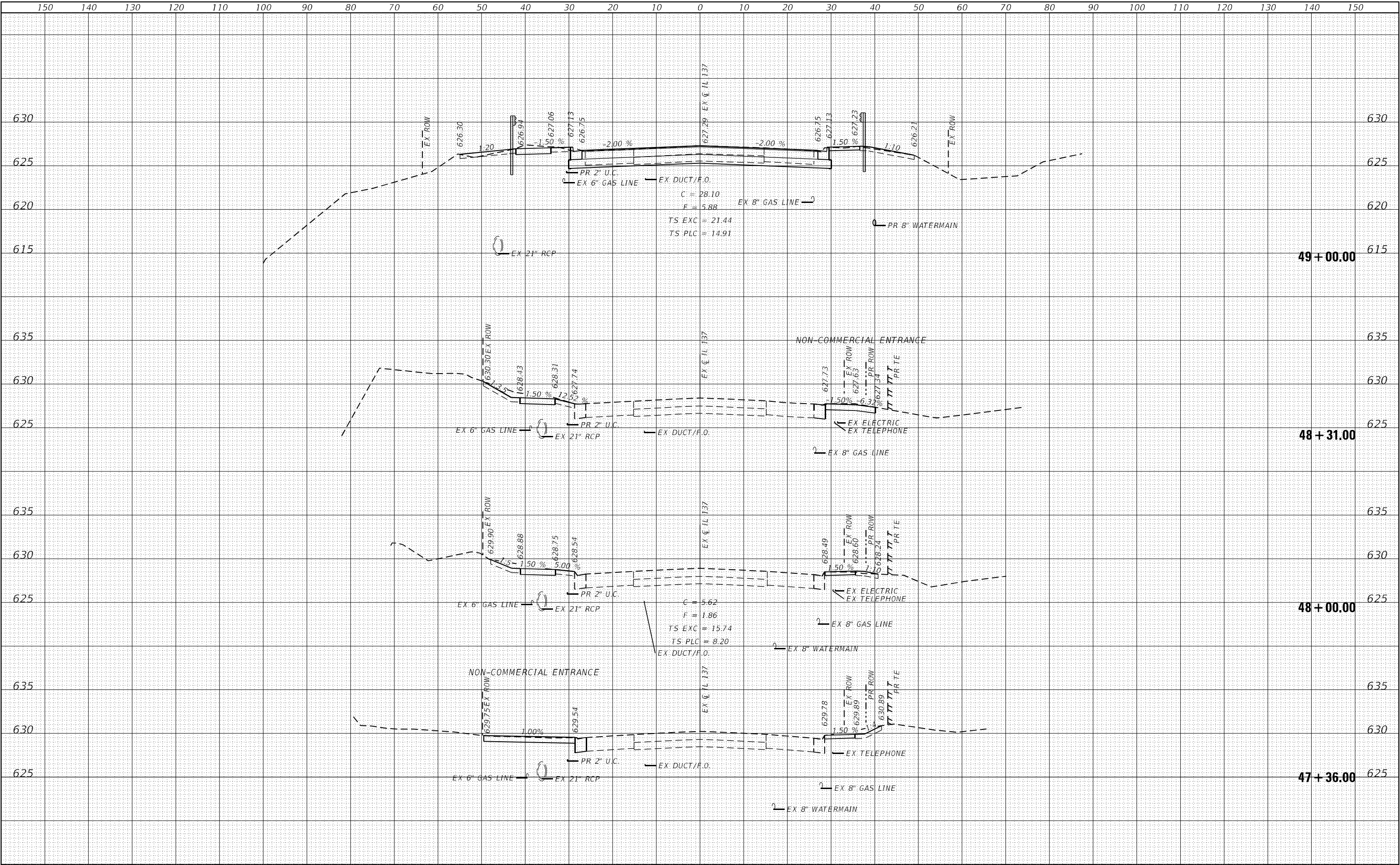
SCALE: SHEET OF SHEETS STA. 46+00.00 TO STA. 47+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	77
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

FINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK		
NO.		

ORIGINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK		
NO.		

MODEL: Default
FILE NAME: 23-0003_00 DOT D1 PDB 193-008 IL 137 Over Bull Creek (CADD) Design (Metric) (Sheet) (D162141-sh-xx-cv-IL137.dgn)



EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG
	DRAWN - JB
PLOT SCALE = 20,0000' = 1"	CHECKED - JH
PLOT DATE = 4/18/2023	DATE - 9/25/2020

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

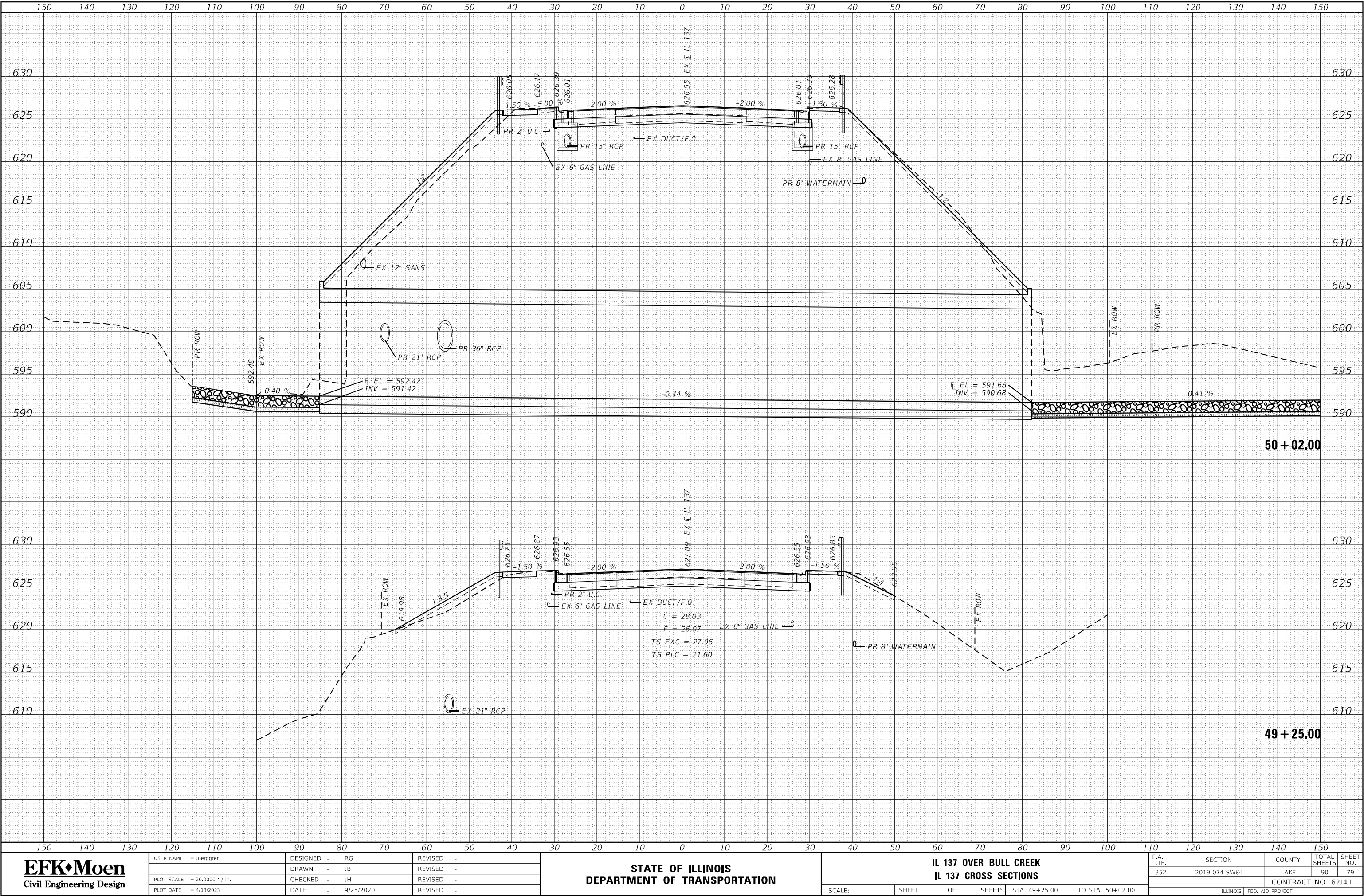
SCALE: SHEET OF SHEETS STA. 47+36.00 TO STA. 49+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	78
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
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EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000' = 1"	CHECKED - JH	REVISED -
PLOT DATE = 4/18/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

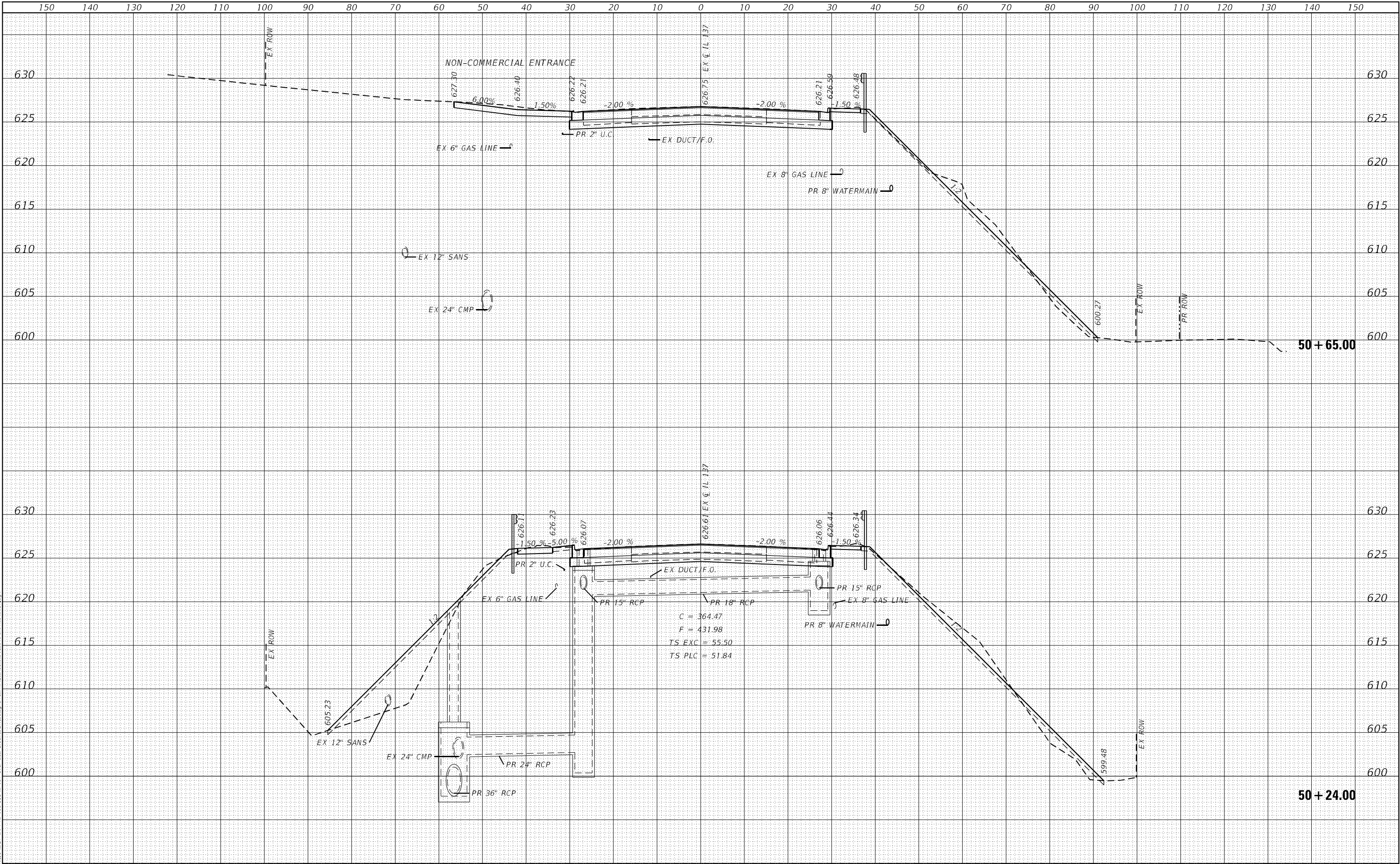
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	79
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JH	REVISED -
PLOT DATE = 4/18/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 50+24.00 TO STA. 50+65.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	80
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

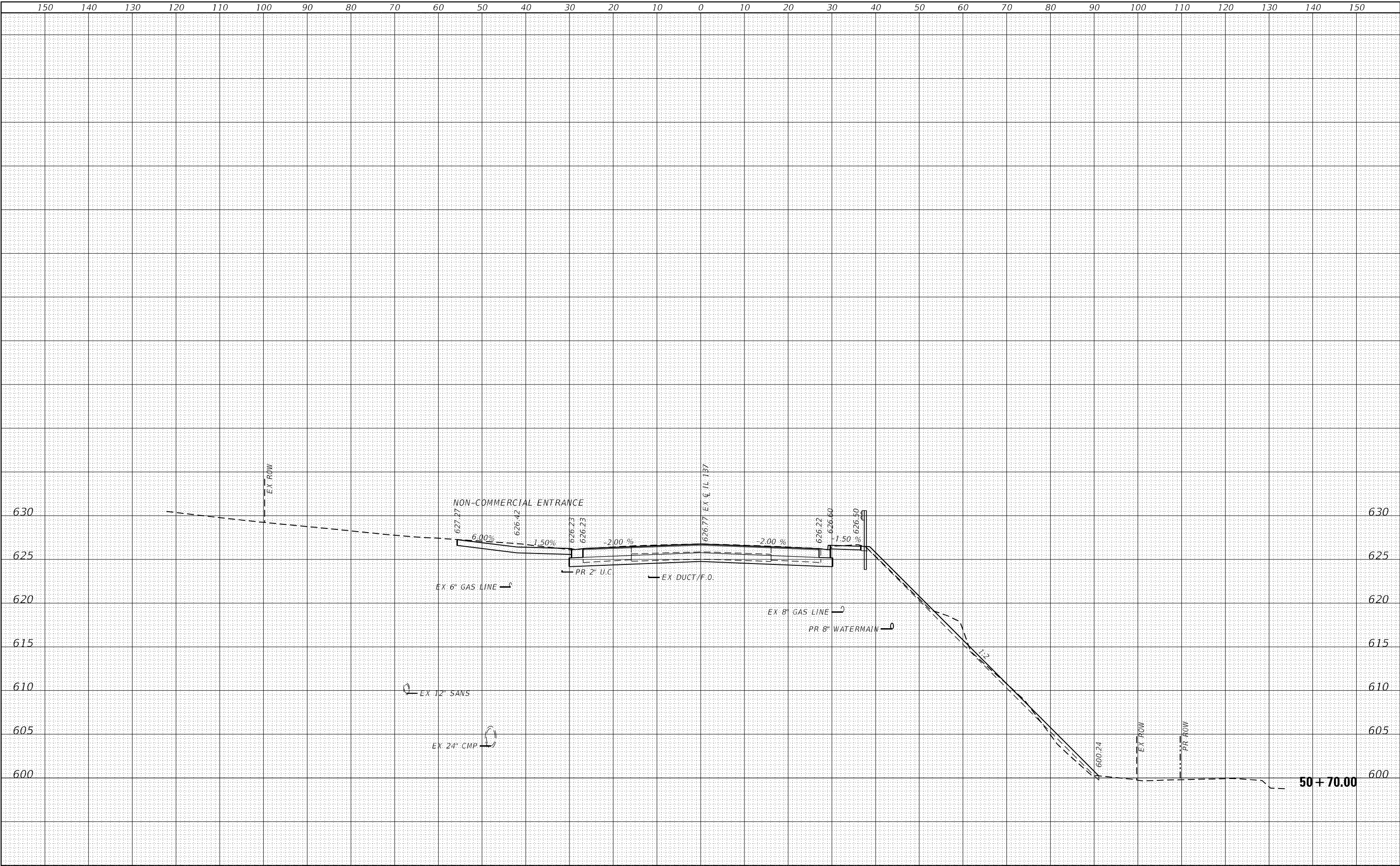
ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

EFK♦Moen
Civil Engineering Design

DESIGNED	-	RG
DRAWN	-	JB
CHECKED	-	JH
DATE	-	9/25/2020

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

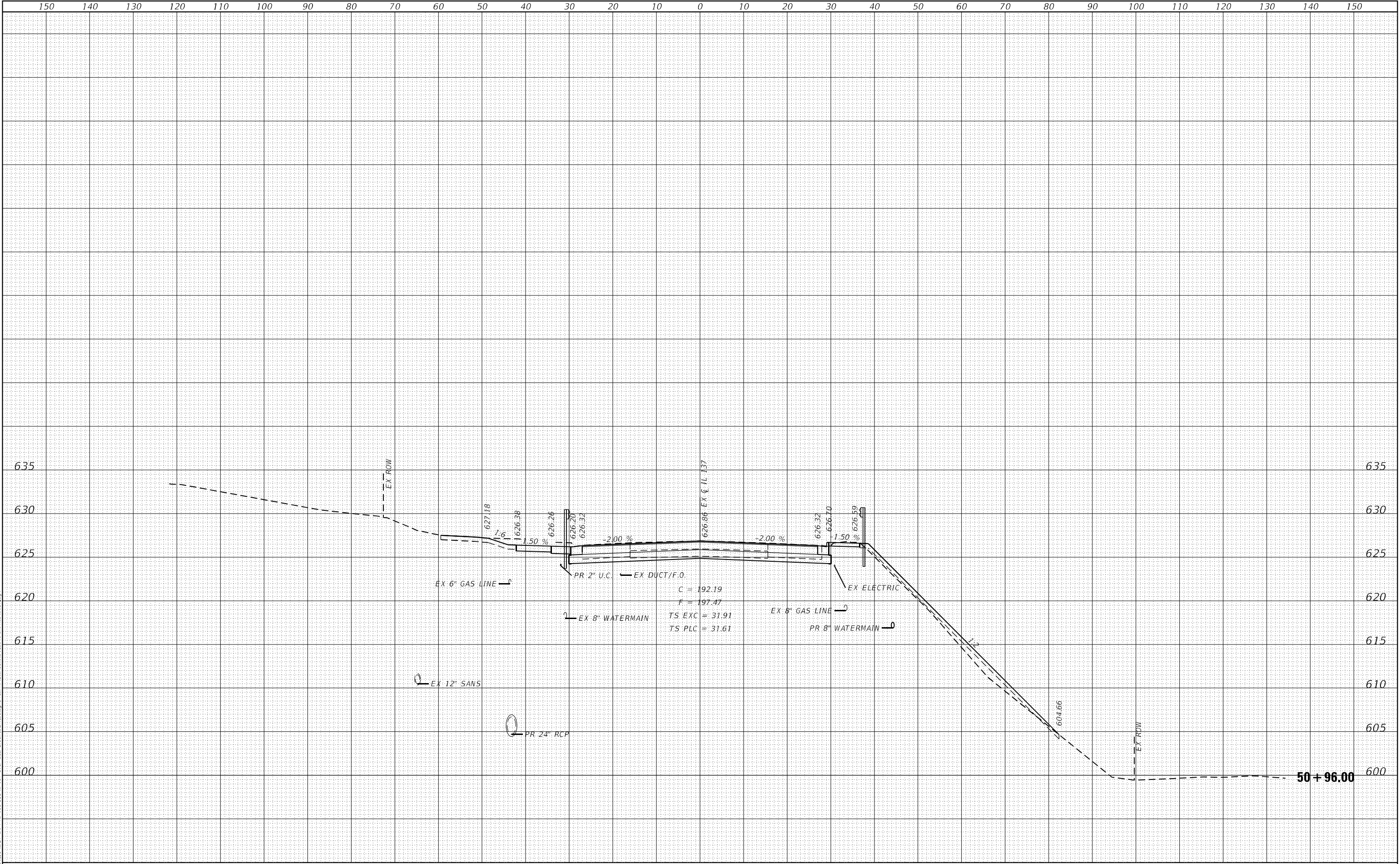
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	81
CONTRACT NO. 62141				
ILLINOIS		FED. AID PROJECT		



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

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

MODEL Default
FILE NAME: 23-0003_00 DOT D1 P1B 193-008 IL 137 Over Bull Creek (CivilDesign\miller\p1b\sheet1\137.dgn)



EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISD -
	DRAWN - JB	REVISD -
PLOT SCALE = 20,0000' / in.	CHECKED - JH	REVISD -
PLOT DATE = 4/18/2023	DATE - 9/25/2020	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

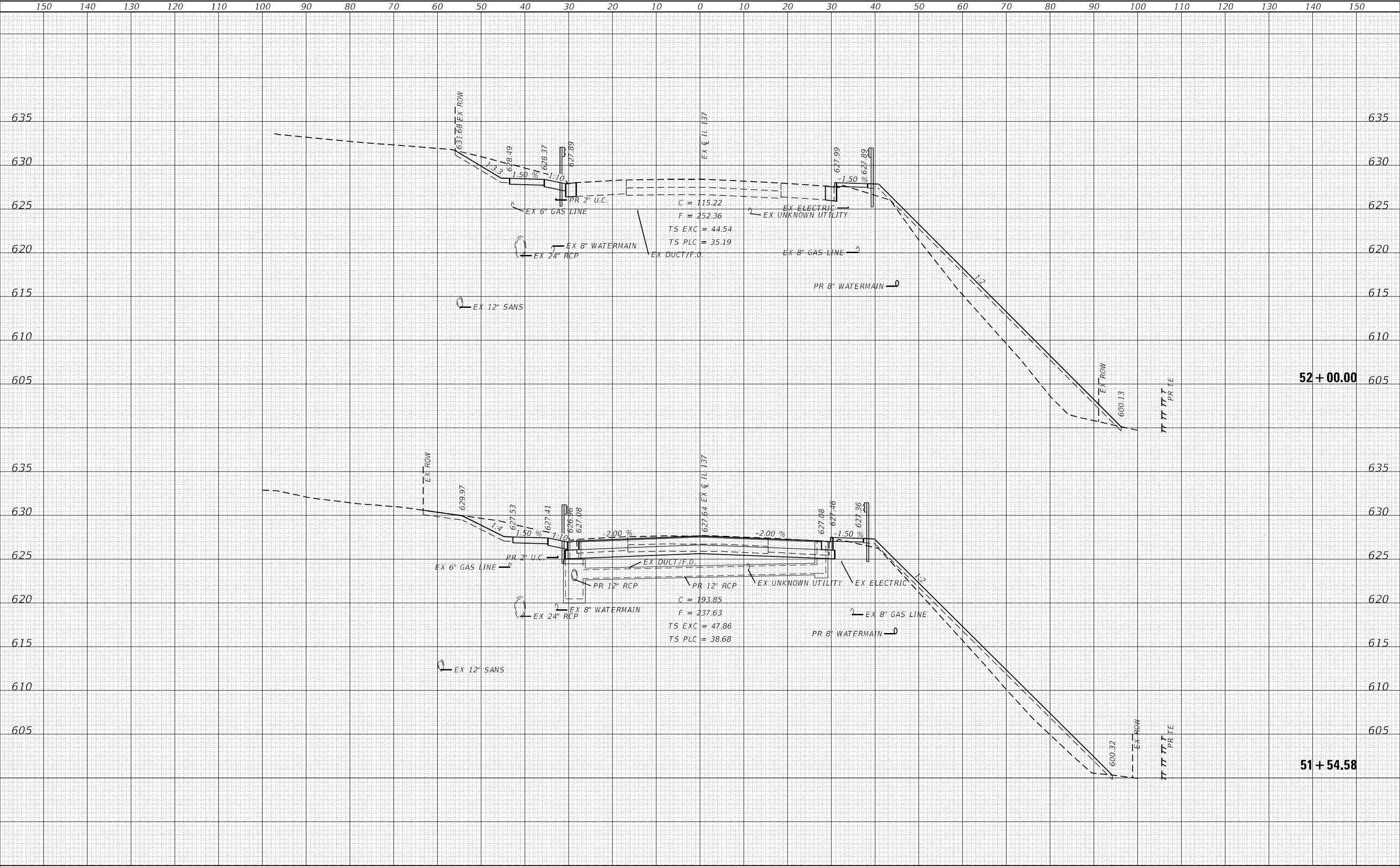
SCALE:	SHEET	OF	SHEETS	STA. 50+96.00	TO STA. 50+96.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	82
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
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EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JH	REVISED -
PLOT DATE = 4/18/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

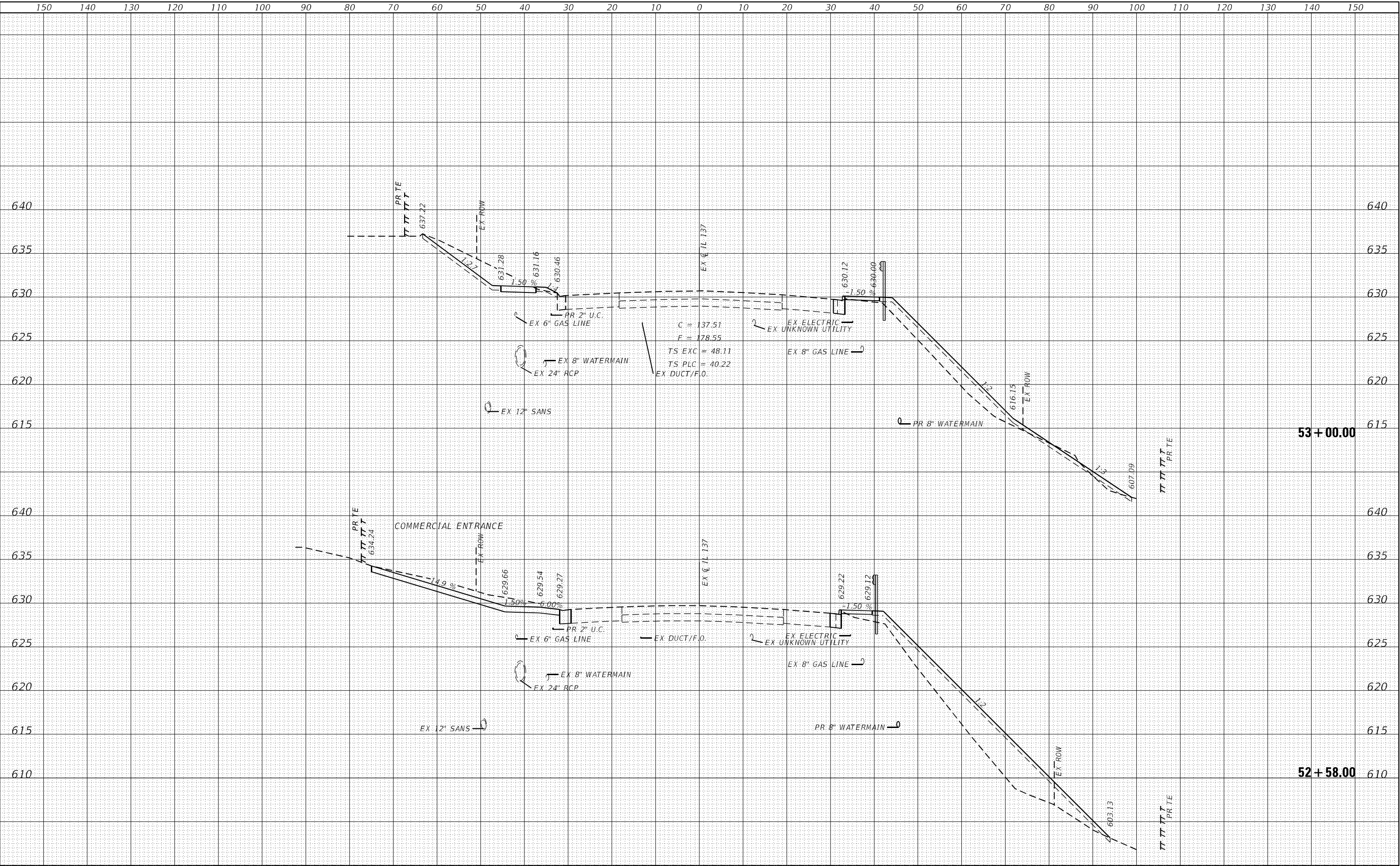
SCALE: SHEET OF SHEETS STA. 51+54.58 TO STA. 52+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	83
CONTRACT NO. 62J41				
ILLINOIS		FED. AID PROJECT		

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

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

MODEL: Default
FILE NAME: 23-0003_00 DOT D1_PFD 193-008 IL 137 Over Bull Creek Cross Design.dwg
User: jberggren
Date: 4/18/2023



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Civil Engineering Design

USER NAME = jberggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,000 * / in.	CHECKED - JH	REVISED -
PLOT DATE = 4/18/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

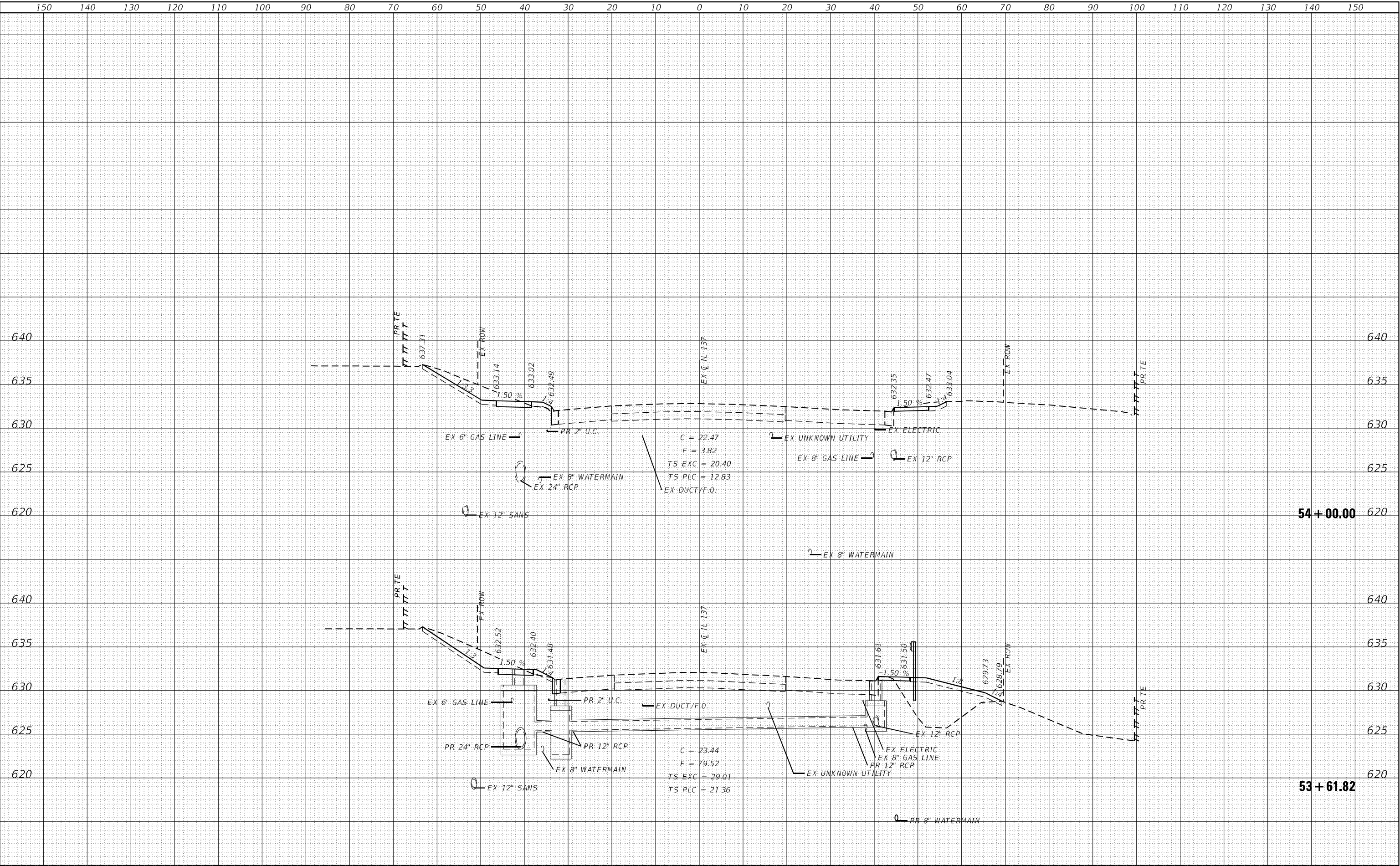
SCALE: SHEET OF SHEETS STA. 52+58.00 TO STA. 53+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	84
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
FILE NAME: 23-0003_00 DOT D1 PDB 193-008 IL 137 Over Bull Creek (2020) Design (2020) 137-008-01-137.dgn



EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG
	DRAWN - JB
PLOT SCALE = 20,0000 * / in.	CHECKED - JH
PLOT DATE = 4/18/2023	DATE - 9/25/2020

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
IL 137 CROSS SECTIONS

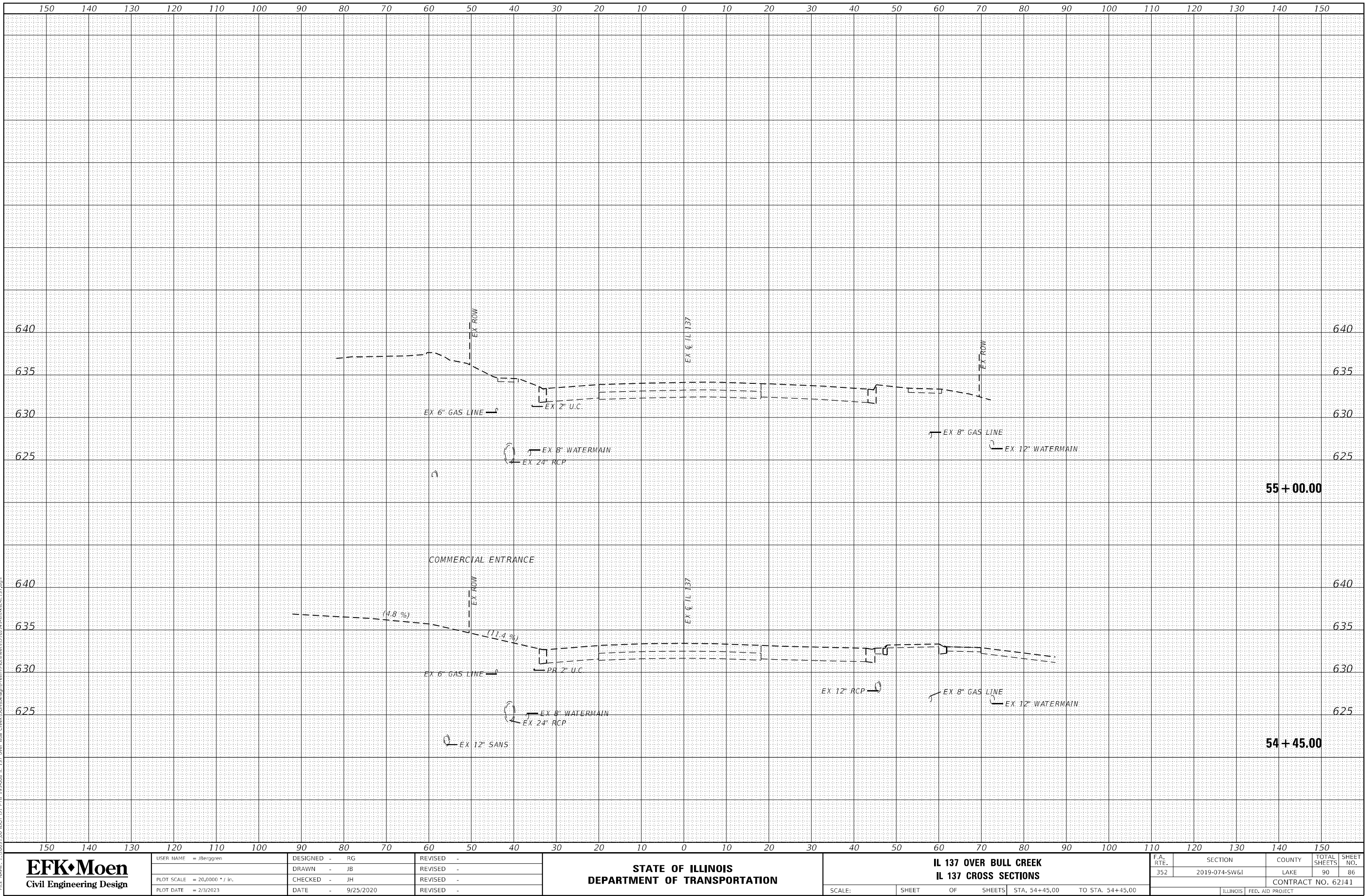
SCALE: SHEET OF SHEETS STA. 53+61.82 TO STA. 54+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	85
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

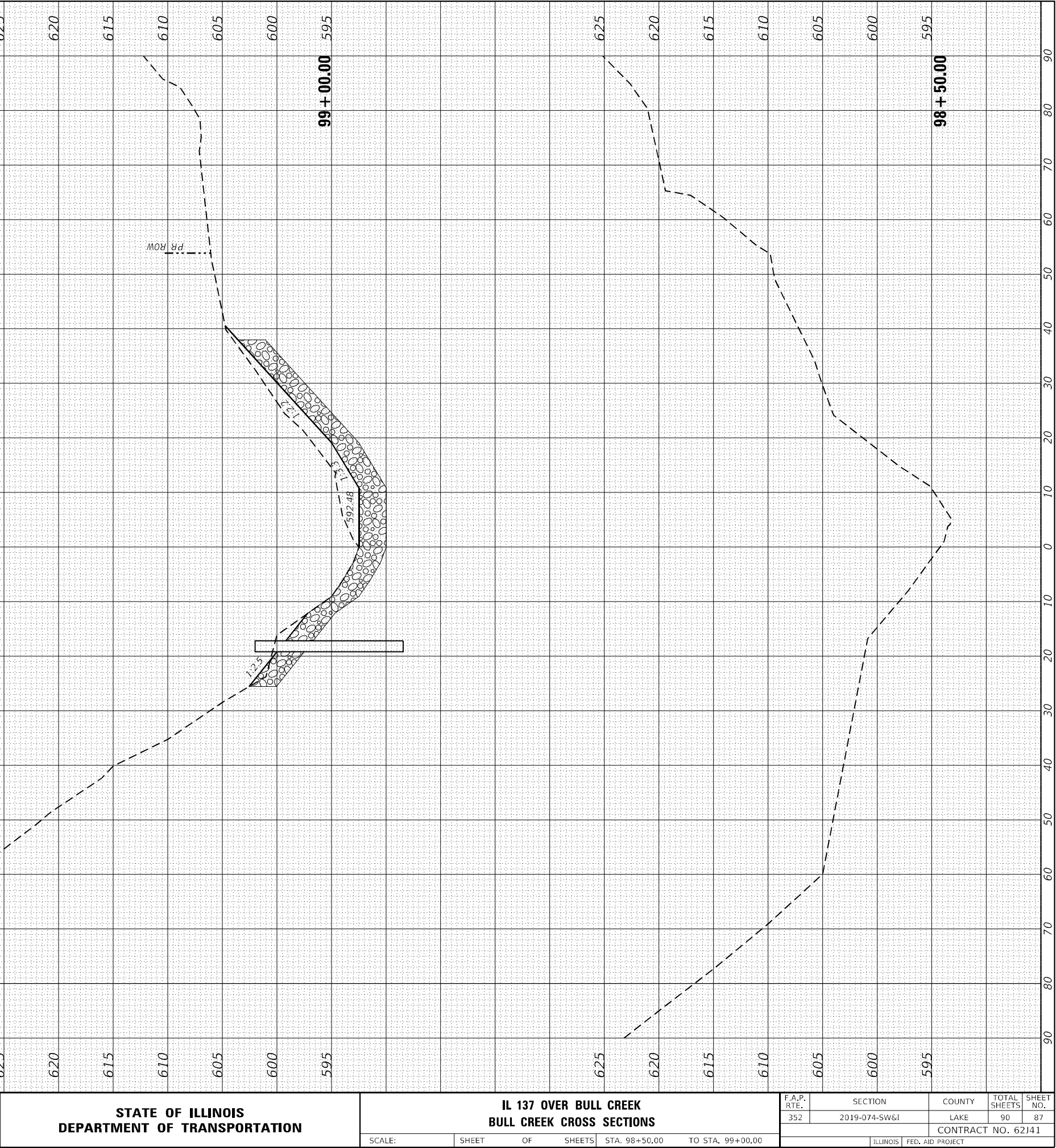
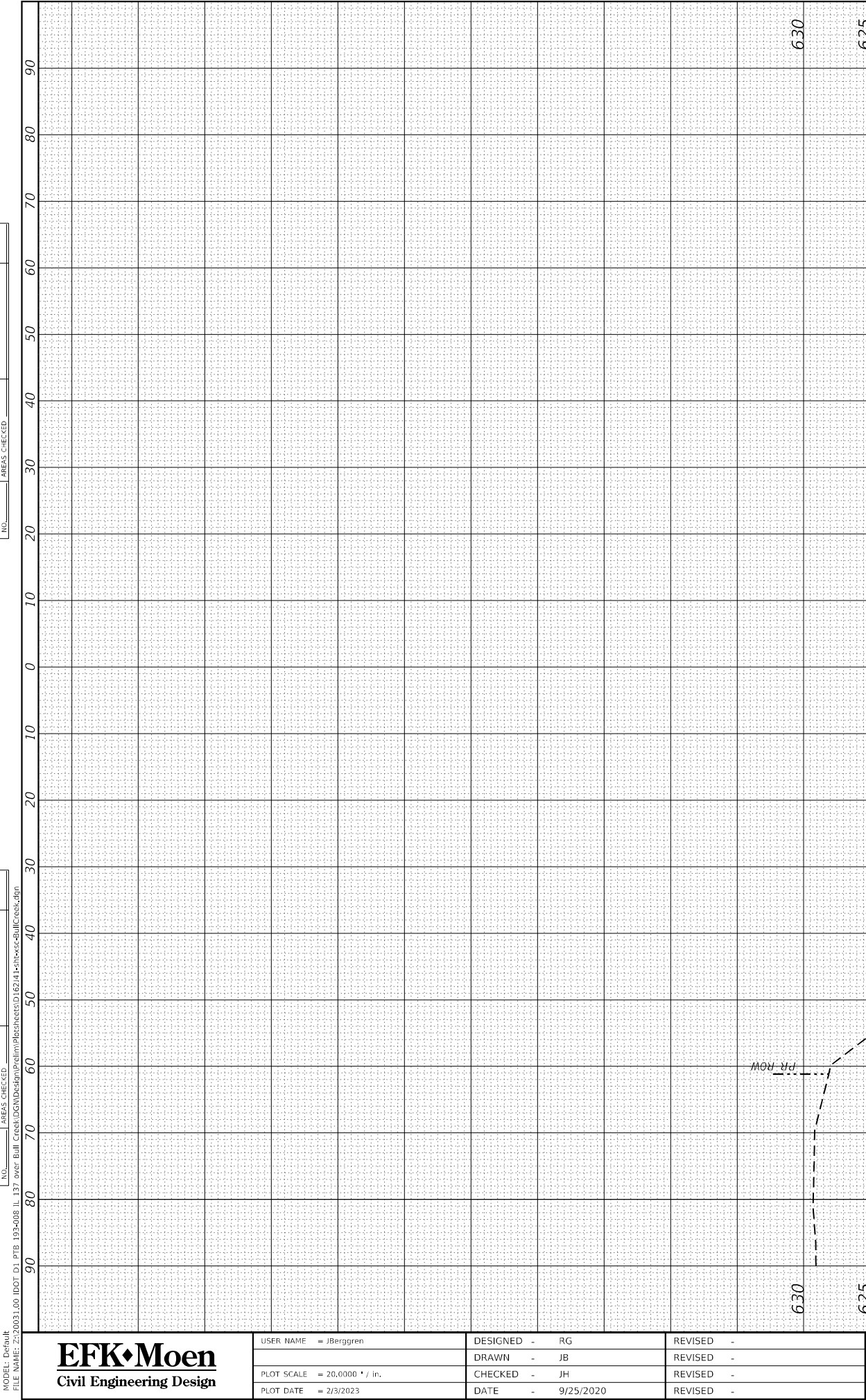
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NOTE BOOK		PLOTTED _____		
		TEMPLATE _____		
		AREAS _____		
NO. _____		AREAS CHECKED _____		

MODEL: Default	NO.	AREAS CHECKED
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FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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



EFK•Moen
Civil Engineering Design

USER NAME = J.Berggren	DESIGNED - RG	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JH	REVISED -
PLOT DATE = 2/3/2023	DATE - 9/25/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 137 OVER BULL CREEK
BULL CREEK CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 98+50.00 TO STA. 99+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	87
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE NAME: 2/3/2023_1.00 DOT D1_PTB 193+006 IL 137 Over Bull Creek Cross Section.dgn

EFK•Moen
Civil Engineering Design

USER NAME	= J.Berggren
DESIGNED	- RG
DRAWN	- JB
CHECKED	- JH
DATE	- 9/25/2020

REVISD	-
REVISD	-
REVISD	-
REVISD	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

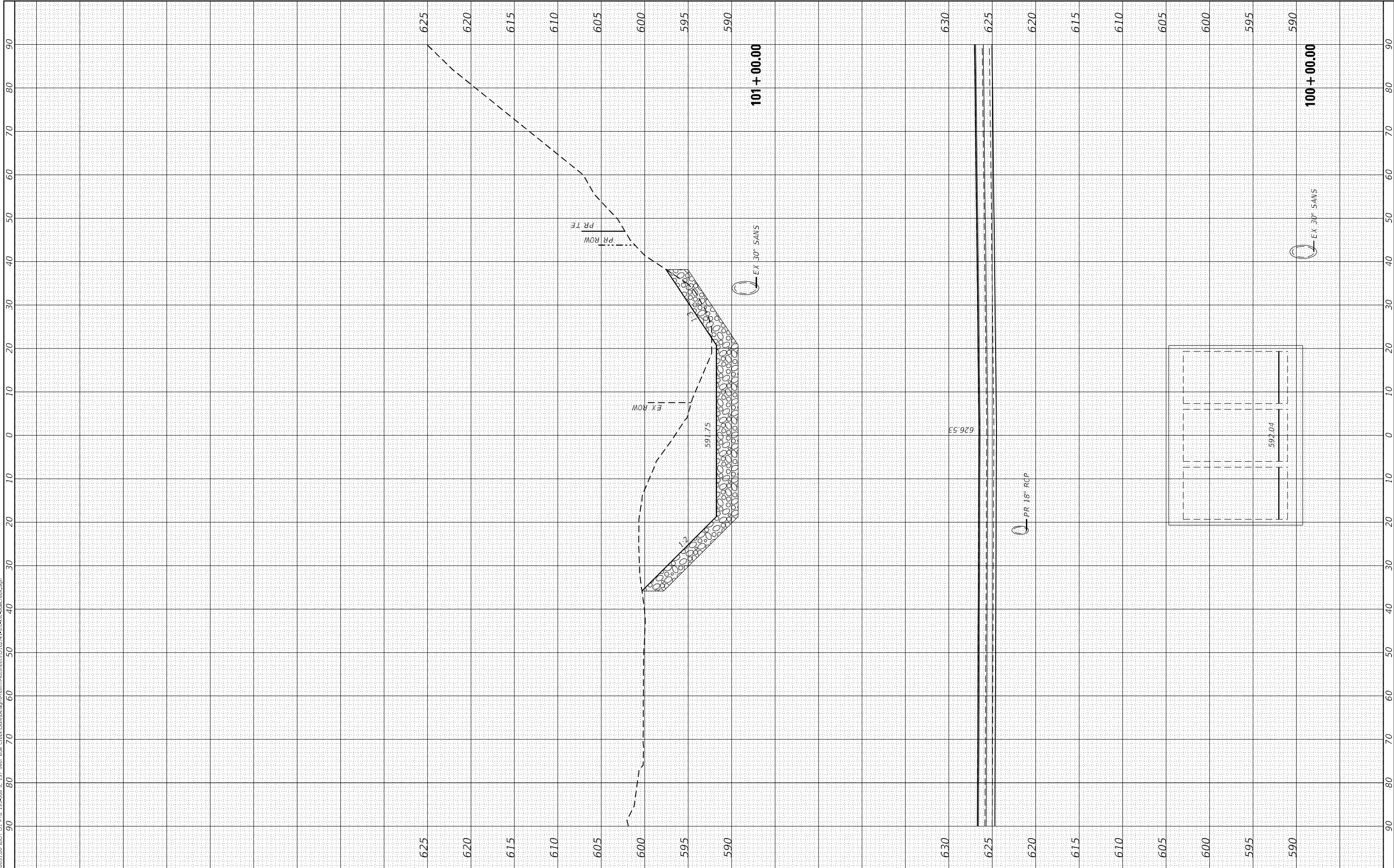
IL 137 OVER BULL CREEK
BULL CREEK CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 100+00.00 TO STA. 101+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	2019-074-SW&I	LAKE	90	88
CONTRACT NO. 62J41				
ILLINOIS FED. AID PROJECT				

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

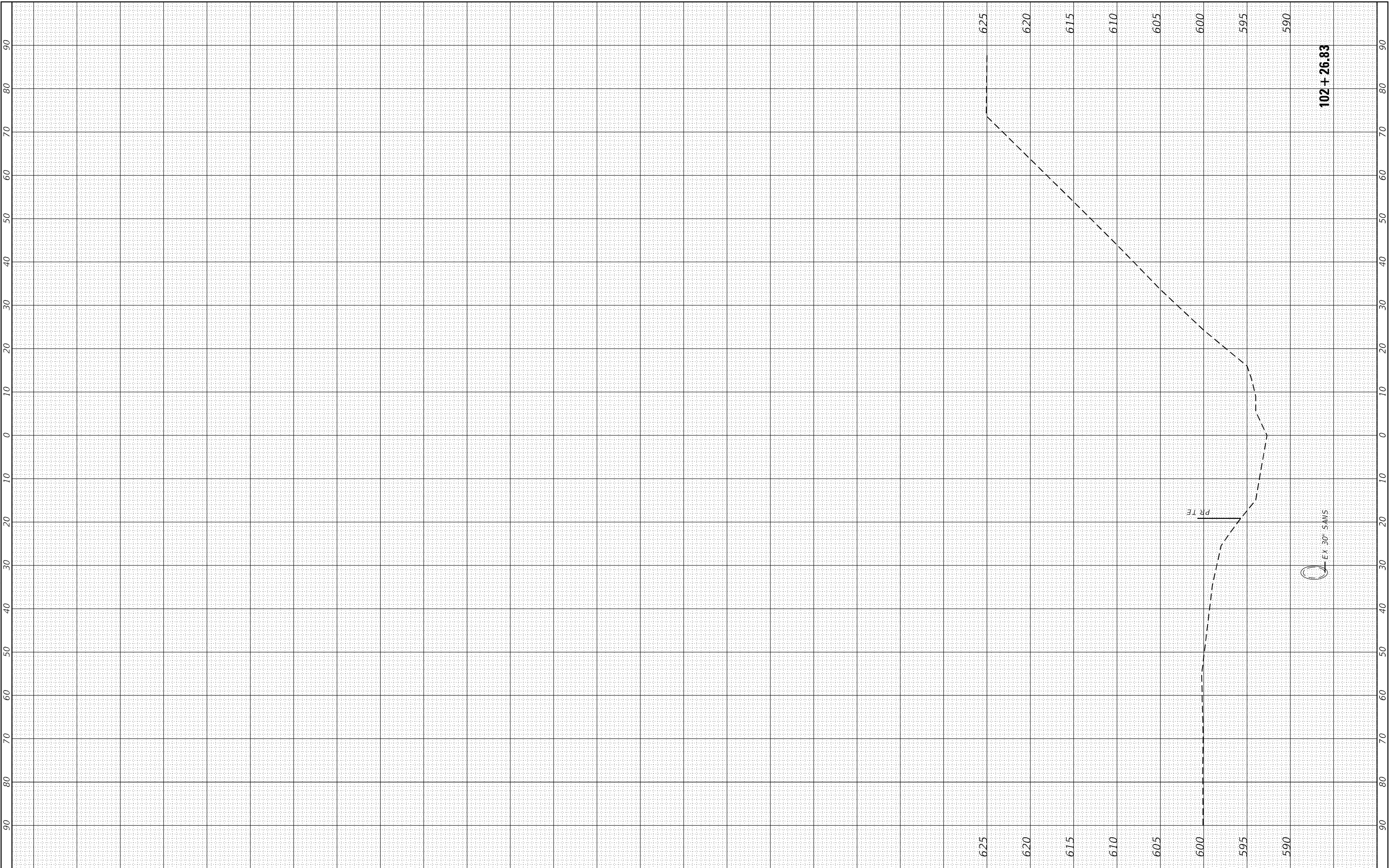
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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

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

MODEL: Default	NO.	AREAS CHECKED
FILE NAME: Z:\20031.00 IDOT D1 PTB 193-008 IL 137 over Bull Creek\DWG\Design\Prelim\Plotsheets\162141sttwcc-BullCreek.dgn		



	USER NAME = J.Berggren	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 137 OVER BULL CREEK BULL CREEK CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000' / in.	DRAWN - JB	REVISED -						352	2019-074-SW&I	LAKE	90	90
	PLOT DATE = 2/3/2023	CHECKED - JH	REVISED -		CONTRACT NO. 62J41								
	DATE - 9/25/2020	REVISED -	SCALE:		SHEET	OF	SHEETS	STA. 102+50.00	TO STA. 102+50.00	ILLINOIS FED. AID PROJECT			