06-16-2023 LETTING ITEM 127 FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED

ILLINOIS ROUTE 173 (IL-173)

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

POSTED SPEED: 55 MPH

ADT: 4900 (2021)

ILLINOIS ROUTE 176 (IL-176)

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

POSTED SPEED: 55 MPH

ADT: 9900 (2021)

APPLIES TO SHEETS 1-19, 44-51 LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS **EXPIRES 11/30/2023**

APPLIES TO SHEETS 28-43

LICENSED STRUCTURAL ENGINEER, STATE OF ILLI

EXPIRES 11/30/2024

APPLIES TO SHEETS 20-21 LICENSED PROFESSIONAL ENGINEER, STATE OF THE PROFESSIONAL ENGINEER

EXPIRES 11/30/2023

LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS **EXPIRES 11/30/2023**

MUNICIPALITIES:

ALDEN TOWNSHIP CITY OF CRYSTAL LAKE

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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: PRAVEEN KAINI, PE (847)-705-4237 PROJECT MANAGER: J. ALAIN MIDY, PE (847)-221-3056

ALDEN TOWNSHIP

ALDEN TOWNSHIP

GROSS LENGTH = 328.55 FT. = 0.062 MILE NET LENGTH = 320.88 FT. = 0.0608 MILE

CITY OF CRYSTAL LAKE GROSS LENGTH = 452.45 FT. = 0.086 MILE NET LENGTH = 445.28 FT. = 0.084 MILE

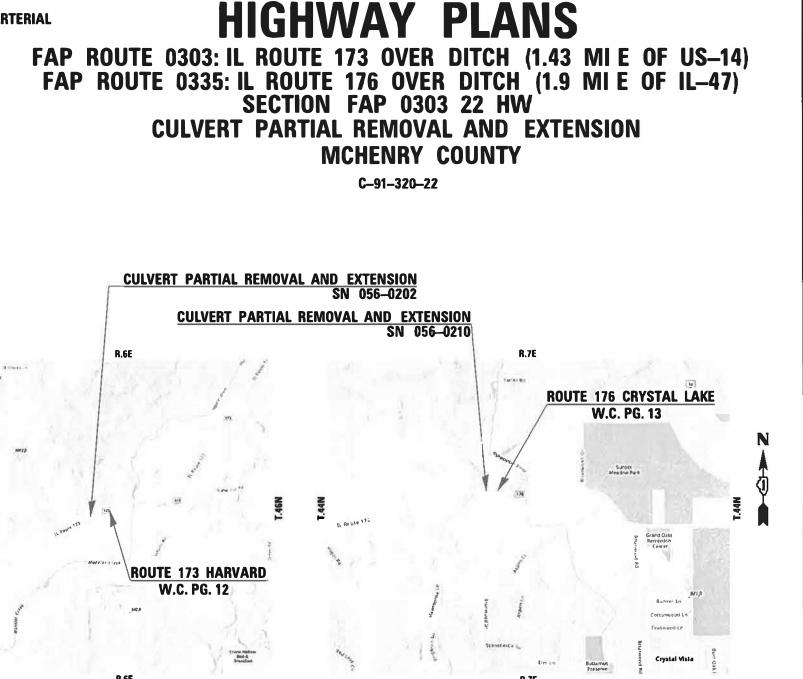
FAP 0303 HW 22 MCHENRY 51 I CONTRACT NO. 62T99

D-91-266-22



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED MARCH 10 20 Z

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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CONTRACT NO. 62T99

CITY OF CRYSTAL LAKE

INDEX OF SHEETS

- COVER SHEET
- INDEX OF SHEETS AND HIGHWAY STANDARDS
- GENERAL NOTES
- SUMMARY OF QUANTITIES
- 9-10 ALIGNMENT, TIES, AND BENCHMARKS
- TYPICAL SECTIONS
- PROPOSED ROADWAY AND REMOVAL PLANS
- ROADWAY SCHEDULE
- PAVEMENT MARKING PLAN
- MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
- 17-19 MAINTENANCE OF TRAFFIC PLANS 20-21 GEOTECHNICAL SOIL BORINGS
- EROSION AND SEDIMENT CONTROL AND LANDSCAPING PLANS
- STRUCTURAL PLANS (SN 056-0202) 28-35
- STRUCTURAL PLANS (SN 056-0210) CROSS SECTIONS IL 173 36-43
- 44-48
- TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 51 TC-22 ARTERIAL ROAD INFORMATION SIGN

IDOT HIGHWAY STANDARDS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

001001-02 AREAS OF REINFORCEMENT BARS

001006 DECIMAL OF AN INCH AND OF A FOOT

280001-07 TEMPORARY EROSION CONTROL SYSTEMS 515001-04 NAME PLATE FOR BRIDGES

630001-12 STEEL PLATE BEAM GUARDRAIL

630101-10 STRONG POST GUARDRAIL ATTACHED TO CULVERT

630201-07 PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL 630301-09 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS

631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6

631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6
642001-03 SHOULDER RUMBLE STRIPS, 16 IN.
701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ? 45 MPH
701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08 TRAFFIC CONTROL DEVICES

704001-08 TEMPORARY CONCRETE BARRIER

725001-01 OBJECT AND TERMINAL MARKERS

780001-05 TYPICAL PAVEMENT MARKINGS

781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

Bowman	10 S LaSelle Stre Chicago, Illinois 9 312-614-0360 www.bowman.com

	USER NAME = kmaus	DESIGNED -	KMM	REVISED -	
110		DRAWN -	KMM	REVISED -	
	PLOT SCALE = 2.0000 / in	CHECKED -	AP	REVISED -	
	PLOT DATE = 03/10/2023	DATE -	03/10/2023	REVISED -	

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, ALDEN TOWNSHIP, CITY OF CRYSTAL LAKE, AND MCHENRY COUNTY.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE CULVERT WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, CULVERTS SHALL BE FREE OF DIRT AND DEBRIS.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.
- 9. EXISTING UNDERGROUND AND ABOVE-GROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED UPON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST OR THE EXISTENCE OF WHICH WAS NOT KNOWN AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY AND TO PROTECT ALL SUCH EXISTING FEATURES DURING CONSTRUCTION. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK.
- 10. ANY REFERENCE TO STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION.
- 11. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 12. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 13. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'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, WHICH WILL BE INCLUDED IN THE COST OF THE CONTRACT.
- 15. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- 16. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 17. FOR STUMP REMOVAL, PLEASE CONTACT ENVIRONMENTAL STUDIES UNIT HEAD VANESSA RUIZ AT VANESSA.RUIZ@ILLINOIS.GOV.
- 18. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENTS 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

COMMITMENTS

NONE

- 19. 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.
- 20. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWER, WATER MAIN, SANITARY SEWER, AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS.
- 21. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE
- 22. ALL PAVEMENT MARKINGS (TEMPORARY OR PERMANENT) SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT ONE TYPICAL PAVEMENT MARKING STANDARD DETAILS.
- 23. THE CONTRACTOR SHALL CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.
- 4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROTECT ROADWAY, ADJACENT PROPERTIES, AND WATER COURSES AS PER SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 5. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 6. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE AFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGNS SHALL BE REMOVED TWO WEEKS THEREAFTER UNLESS THE SIGNS ARE NEEDED AGAIN FOR A SUBSEQUENT FUTURE EVENT THAT WILL OCCUR WITHIN TWO WEEKS ON THE SAME APPROACH OF THE AFFECTED ROADWAY. THE SIGN LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- 27. DE-ENERGIZING COMED'S DISTRIBUTION LINES (?34,000 VOLTS) OR TRANSMISSION LINES (>34,000 VOLTS)
 MAY BE NECESSARY IN ORDER TO ACCOMMODATE CONTRACTOR'S EQUIPMENT. COSTS MAY BE INVOLVED.
 CALL 1 (800) EDISON1
- 28. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14)
ILLINOIS ROUTE 176 OVER DITCH (1.9 MI E OF IL-47)
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.,,,,,			43/11/11/1	SN 056-0202	SN 056-0210		
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	2		2		
20200100	EARTH EXCAVATION	CU YD	41	29	12		
20300100	CHANNEL EXCAVATION	CU YD	115	60	55		
20400800	FURNISHED EXCAVATION	CU YD	110	107	3		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	210.0	140.0	70.0		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	42.0	30.0	12.0		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	520	388	132		
25000210	SEEDING, CLASS 2A	ACRE	0.04	0.03	0.01		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10.0	7.0	3.0		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10.0	7.0	3.0		
25100115	MULCH, METHOD 2	ACRE	0.10	0.08	0.02		
25100630	EROSION CONTROL BLANKET	SQ YD	520	388	132		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	8	2		
28000305	TEMPORARY DITCH CHECKS	FOOT	90	60	30		
28000400	PERIMETER EROSION BARRIER	FOOT	553	434	119		

		USER NAME = apatel	DESIGNED - KMM	REVISED -
	10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - KMM	REVISED -
DOAALLIGIT	313-614-0360 www.bowman.com	PLOT SCALE = 2 0000 / in.	CHECKED - AP	REVISED -
		PLOT DATE = 03/10/2023	DATE - 03/10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14)

ILLINOIS ROUTE 176 OVER DITCH (1.9 MI E OF IL-47)

SCALE: NONE SHEET 1 OF 5 SHEETS STA. TO STA.

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NO.	I I CIVI	UNIT	QUANTITY	SN 056-0202	SN 056-0210
28100107	STONE RIPRAP, CLASS A4	SQ YD	46.0	30.0	16.0
28200200	FILTER FABRIC	SQ YD	79.0	53.0	26.0
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	88	88	
44000100	PAVEMENT REMOVAL	SQ YD	14	14	
44004250	PAVED SHOULDER REMOVAL	SQ YD	75	65	10
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	403	279	124
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	12		12
48203046	HOT-MIX ASPHALT SHOULDERS, 12 1/4"	SQ YD	88	88	
50102400	CONCRETE REMOVAL	CU YD	16.1	10.9	5.2
50200100	STRUCTURE EXCAVATION	CU YD	232.0	192.0	40.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9060	6700	2360
50901760	PIPE HANDRAIL	FOOT	17	11.5	5.5
		1.551			
51500100	NAME PLATES	EACH	2	1	1
31300100	MANIE I EALES	LACII		1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	743	598	145
	TENT CHART SOLE RETENTION STATEN	JQ FI	, 43	390	143
E4002040	EXPANCION POLTC 2/4 INCL V 6 INCL	EACH	60	40	20
54002040	EXPANSION BOLTS 3/4 INCH X 6 INCH	EACH	60	40	20 *

		USER NAME = apatel	DESIGNED -	KMM	REVISED -
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	312-614-0360 www.bowman.com	PLOT SCALE = 2.0000 ' / in.	CHECKED -	AP	REVISED -
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CODE	ITEM	LINIT	TOTAL	0004	0004	
NO.		UNIT	QUANTITY			
				SN 056-0202	SN 056-0210	
54003000	CONCRETE BOX CULVERTS	CU YD	44.7	32.0	12.7	
60905305	BOX CULVERTS TO BE CLEANED	FOOT	102	52	50	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	193.8	112.5	81.3	
* 63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	75.0	50.0	25.0	
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	37.5	25.0	12.5	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	4	1	
63200310	GUARDRAIL REMOVAL	FOOT	511	346	165	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	835	835		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.5	0.5	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.5	0.5	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	25	15	10	
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	35	21	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,598	1,598		
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	3,778	3,778		

CONSTRUCTION CODE

			CONSTRUCTION CODE			
			URBAN	100% STATE	100% STATE	
CODE			TOTAL	BR I DGE	BR I DGE	
NO.	ITEM	UNIT	QUANTITY	0004	0004	
INO.			QUANTITI	SN 056-0202	SN 056-0210	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	687.5	450.0	237.5	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	33	24	9	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300.0	300.0		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2	
70000200	The first of the sixth that the first of the	271011		-	-	
70600333	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	า	2		
/0000332	IMPACT ATTENUATURS, RELUCATE (FULLT REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	4	1	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,431	2,431		
* 78100300	REPLACEMENT REFLECTOR	EACH	8	8		
			-	-		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	8	4	
70200003	COARDINATE REFERENCES, THE A	LACII	1 2	0		
70200202	DAYEMENT MADELING DEMOVAL WATER REASTING	CO ET	452	450		
/8300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	452	452		
X0326650	FILLING EXISTING RUMBLE STRIP	FOOT	794	794		
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	29.1	21.5	7.6	
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	4	2	2	
X2010400	STUMP REMOVAL ONLY	UNIT	53		53	
1.2010100			<u> </u>			
X2501900	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.06	0.05	0.01	
72301000	SELDTING, GENSS 4 (MODITIED)	ACRE	U, UU	0,03	0,01	

Bowman 10 S. LaSalle Street, Suite 211 Chicago, Binois 60603 372-61-03609 www.bowman.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14)
ILLINOIS ROUTE 176 OVER DITCH (1.9 MI E OF IL-47)

SCALE: NONE SHEET 4 OF 5 SHEETS STA. TO STA.

CONSTRUCTION CODE

 F.A.P. RTE.
 SECTION
 COUNTY SHEETS NO.

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 FAP 0303 22 HW
 MCHENRY
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 & F.A.P. 0335
 CONTRACT NO. 62⊤9

 | ILLINOIS | FED. AID PROJECT

NO. TEMPORARY TEMPORARY INFORMATION SIGNING COLUMN TOTAL NO. TOTAL
CODE NO.
NO. CTEM
No. Section
X2501820 SEFDING, CLASS 5 (MODIFIED) ACRE 0.06 0.05 0.01
X6700407 ENGINEER'S FIELD OFFICE, TYPE A (D1) X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL) X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL) X7830050 RAJSED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EDUAL TO OR LESS THAN 5 INCHES) Z0013798 CONSTRUCTION LAYOUT Z0013798 CONSTRUCTION LAYOUT L SUM 1 0.5 0.5 Z0030550 DEBRIS REMOVAL L SUM 1 0.5 0.5 Z0030850 TEMPORARY INFORMATION SIGNING
X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL) L SUM 1 0.5 0.5
X7010216 TRAFFIC CONTROL AND PROTECTION. (SPECIAL) L SUM 1 0.5 0.5
X7010216 TRAFFIC CONTROL AND PROTECTION. (SPECIAL) L SUM 1 0.5 0.5
X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL) L SUM 1 0.5 0.5
X7830050 RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL EACH 8 8
X7830050 RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL EACH 8 8
X7830050 RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL
Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 38.0 16.0 22.0
Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 38.0 16.0 22.0
Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 38.0 16.0 22.0
Z0012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT 38.0 16.0 22.0
Z0013798 CONSTRUCTION LAYOUT
Z0015500 DEBRIS REMOVAL
Z0015500 DEBRIS REMOVAL
Z0015500 DEBRIS REMOVAL
Z0030850 TEMPORARY INFORMATION SIGNING SQ FT 104 52 52
Z0030850 TEMPORARY INFORMATION SIGNING SQ FT 104 52 52
Z0030850 TEMPORARY INFORMATION SIGNING SQ FT 104 52 52
Z0030850 TEMPORARY INFORMATION SIGNING SQ FT 104 52 52
Z0054400 ROCK FILL CU YD 12.8 9.2 3.6
Z0054400 ROCK FILL CU YD 12.8 9.2 3.6
Z0054400 ROCK FILL
Z0064800 SELECTIVE CLEARING UNIT 1.0 1.0
Z0073400 TEMPORARY SUPPORT SYSTEM EACH 3 2 1
Ø Z0076604 TRAINEES - TRAINING PROGRAM GRADUATE
y 23373331 HATHELS HATHER HOOKARGIADONIE

Bowman 10 S. LaSale Street, Suits 2110 Chiesgo, Illinoide 60603 212-014-0360 www.bowman.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

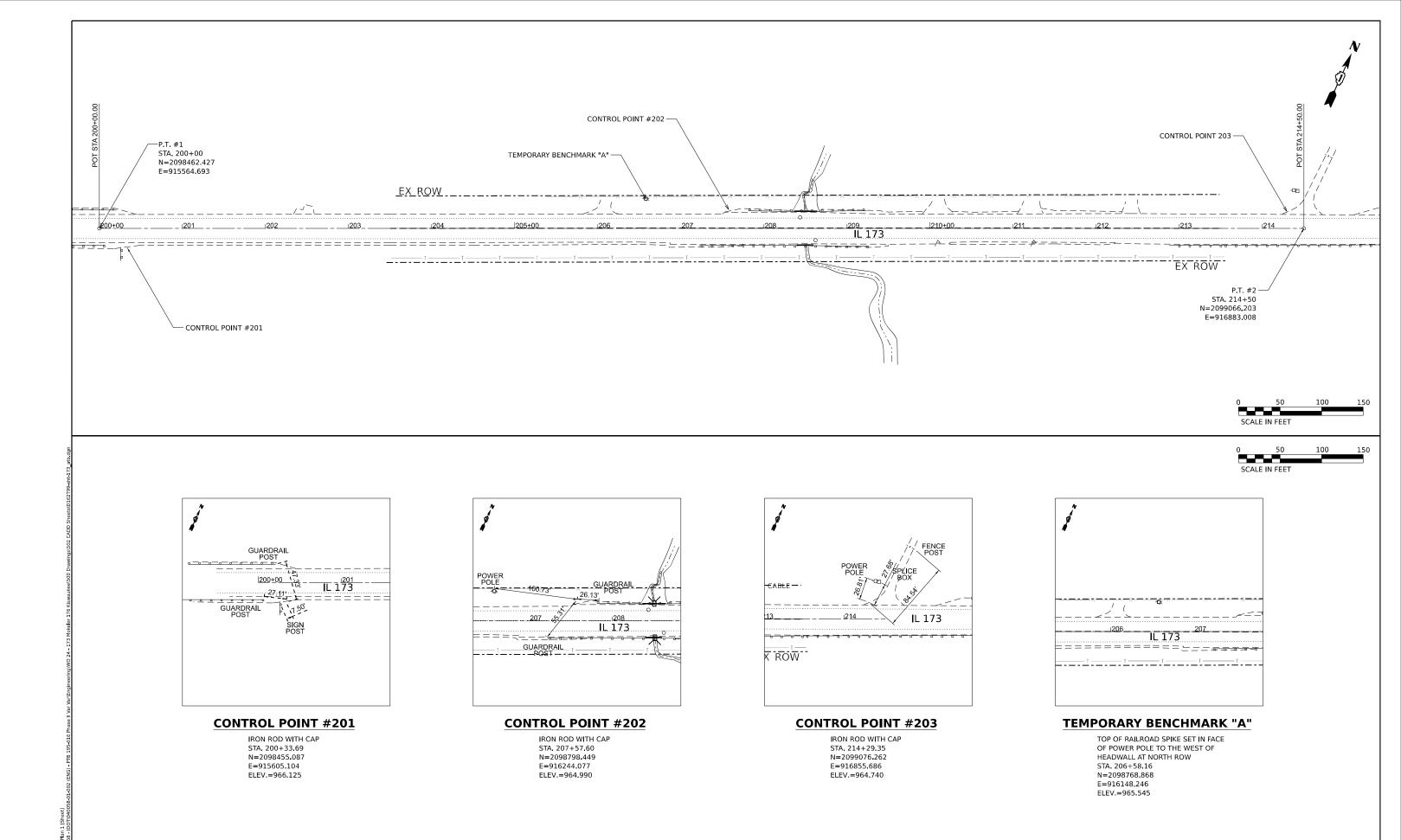
SUMMARY OF QUANTITIES

ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14)

ILLINOIS ROUTE 176 OVER DITCH (1.9 MI E OF IL-47)

SCALE: NONE SHEET 5 OF 5 SHEETS STA. TO STA.

CONSTRUCTION CODE

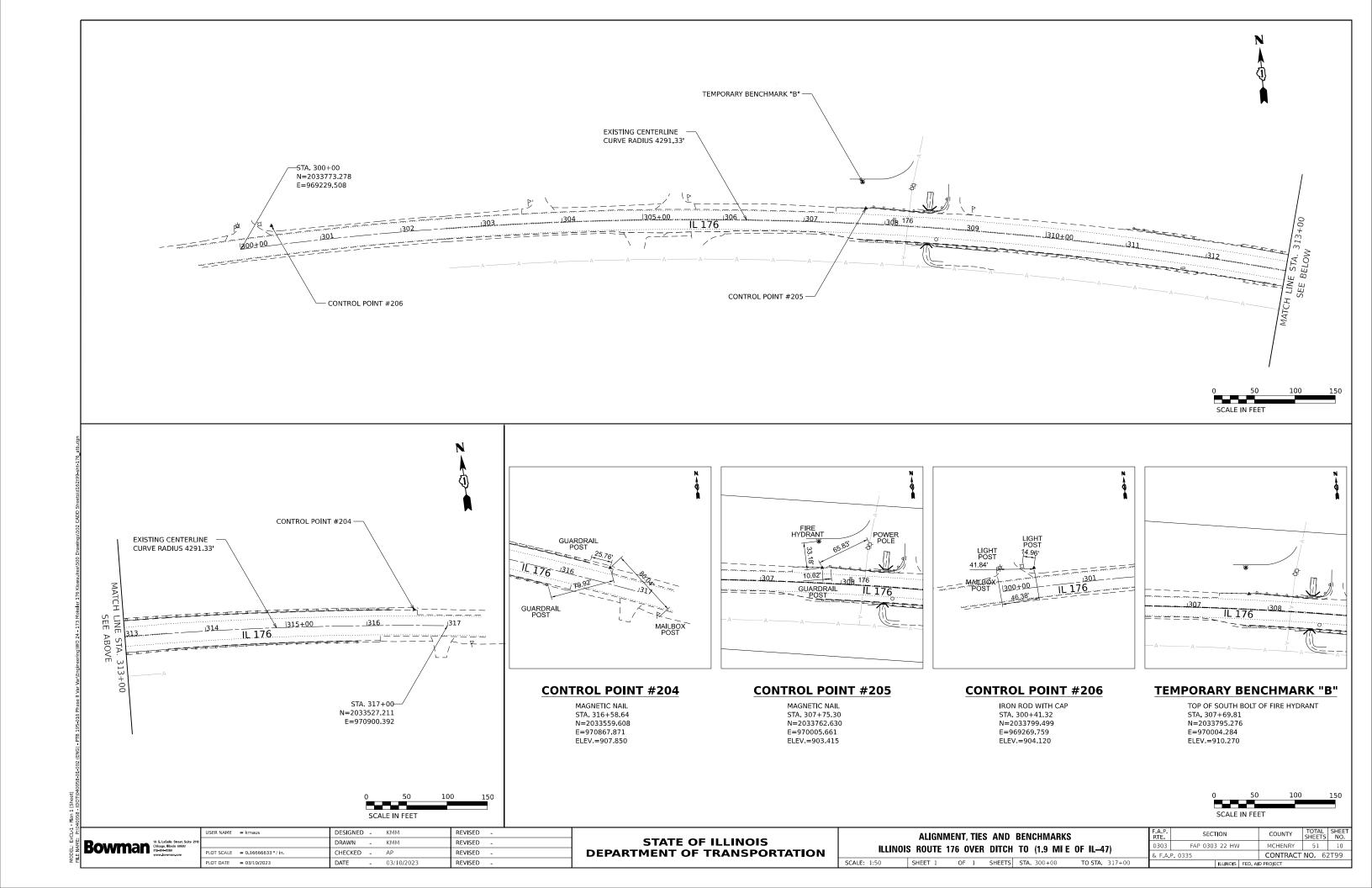


Bowman 10 % Listallo Street, 50 (Chizapa, Block 00003) 135-85-0-2000 (Verwidebreitenzen

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

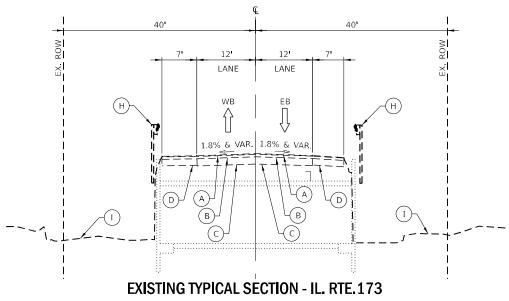
ALIGNMENT, TIES AND BENCHMARKS
ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14)

SHEET 1 OF 1 SHEETS STA. 200+00 TO STA. 214.



EXISTING LEGEND

- A EXISTING POLYMERIZED HMA BINDER COURSE IL-4.75 N50, 3/4"
- (B) EXISTING HMA PAVEMENT, 3"
- © EXISTING PCC PAVEMENT, 9"
- (D) EXISTING SHOULDER WIDENING, 8"
- E EXISTING HMA SURFACE, 2-3/4"
- F EXISTING PCC PAVEMENT, 9-3/4"
- © EXISTING HMA SHOULDER, 7-3/4" H EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A
- (I) EXISTING TOPSOIL



CULVERT AT DITCH 1.43 MI E OF US-14 STA 208+50.98

40' 8% & VAR. 1.8% & VAR PROPOSED TYPICAL SECTION - IL. RTE. 173

CULVERT AT DITCH 1.43 MI E OF US-14 STA 208+38.44 TO STA 208+63.53 SEE PAVEMENT MARKING REPLACEMENT PLAN FOR LANE CONFIGURATION

> SEE GUARDRAIL SCHEDULE FOR LIMITS OF GUARDRAIL PROPOSED SHOULDER PROPOSED FINISHED GRADE - (SEE LANDSCAPING PLAN FOR TOPSOIL AND SEEDING) **GRADING DETAIL**

> > SCALE:

IL-173 LT SHOULDER: STA 207+80.32 TO STA 209+82.75 IL-173 RT SHOULDER: STA 207+37,20 TO STA 207+52,16 AND STA 207+75.00 TO STA 209+72.23

IL-176 RT SHOULDER: STA 308+18.45 TO STA 309+38.99

LANE LANE 0.0% & VAR. 2.9% & VAR **EXISTING TYPICAL SECTION - IL. RTE. 176**

CULVERT AT DITCH 1.9 MI E OF IL-47 STA 308+53.53

50'

PROPOSED TYPICAL SECTION - IL. RTE.176 CULVERT AT DITCH 1.9 MI E OF IL-47

0.0% & VAR. 2.9% & VAR.

STA 308+42.54 TO STA 308+64.25 PAVEMENT MARKING/LANE CONFIGURATION NOT TO BE DISTURBED

HMA MIX REQUIREMENTS TABLE		
MIXTURE TYPE	AIR VOIDS @ NDES	QMP
HOT-MIX ASPHALT SHOULDERS, 12 1/4"		
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", [L-9.5, N70	4% @ 70 GYR.	QC/QA
10-1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT SHOULDERS, 8"		
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", [L-9.5, N70	4% @ 70 GYR.	QC/QA
6" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
FILLING EX. SHOULDER RUMBLE STRIP	•	
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", [L-9.5, N70	4% @ 70 GYR.	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR I	PERFORMANCE (QCP); PAY FOR F	PERFORMANCE (PI

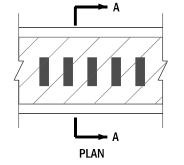
NOTES: 1. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED

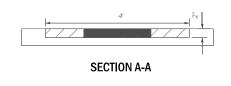
HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECFICATIONS.

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

PROPOSED LEGEND

- *A PROPOSED HMA SHOULDERS, 12 1/4"
- *B PROPOSED HMA SHOULDERS, 8"
- © PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- D PROPOSED GURADRAIL (SEE ROADWAY AND STRUCTURAL PLANS FOR DETAILS)
- © EXISTING CULVERT (SEE STRUCTURAL PLANS FOR DETAILS)
- (F) PROPOSED CULVERT EXTENSION (SEE STRUCTURAL PLANS FOR TOPSOIL AND SEEDING)
- © PROPOSED FINISHED GRADE (SEE LANDSCAPING PLANS FOR DETAILS)
- H AGGREGATE SHOULDERS, TYPE B 6"
- * PROPOSED PAVEMENT TO MATCH EXISTING GRADE
- # SEE GRADING DETAIL FOR PROPOSED FINISHED GRADE OUTSIDE LIMITS OF PROPOSED CULVERT EXTENSTION





FILLING EX. SHOULDER RUMBLE STRIP - IL. RTE.173

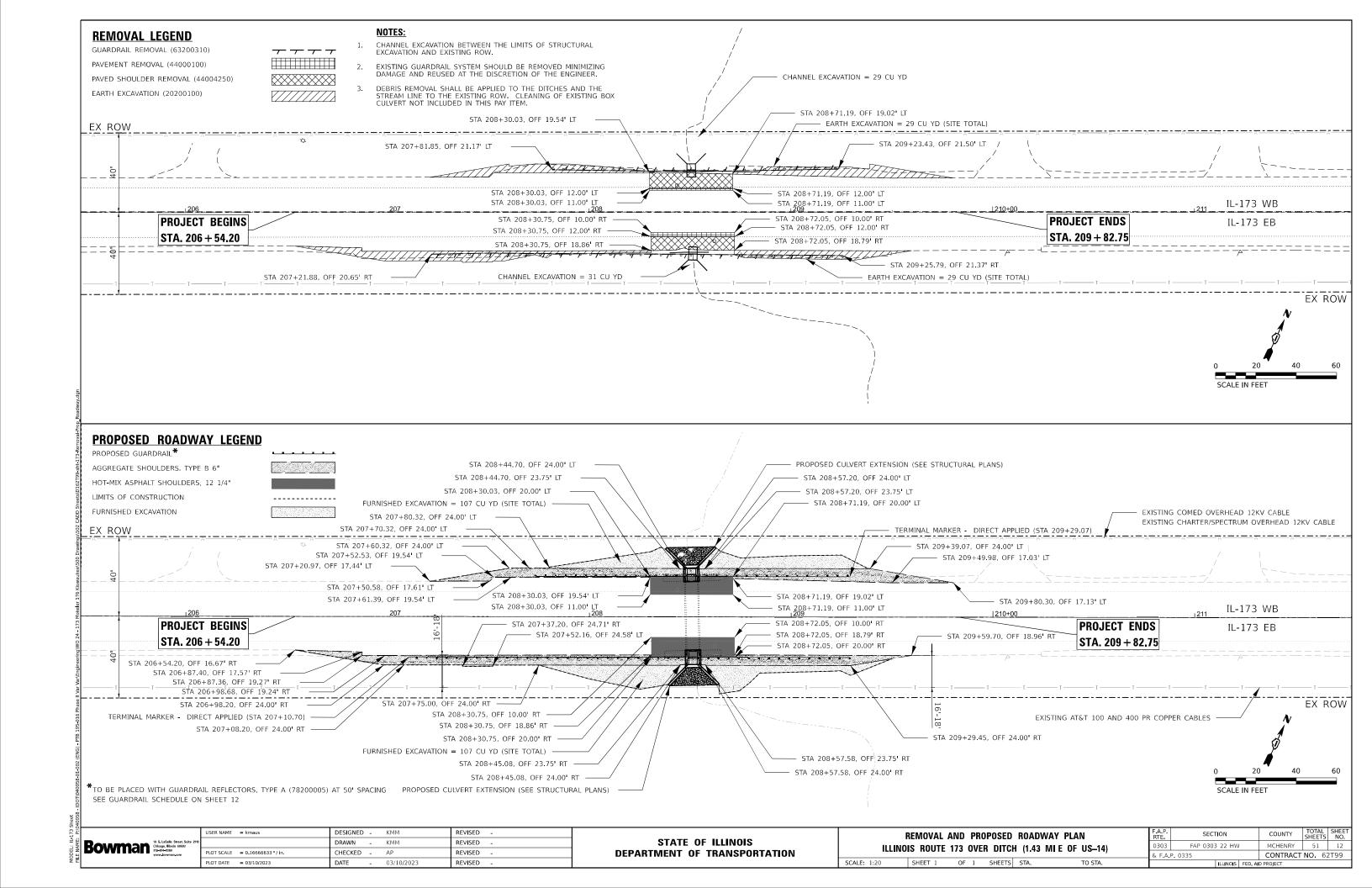
SEE PAVEMENT MARKING REMOVAL AND REPLACEMENT PLAN FOR LIMITS OF RUMBLE STRIPS

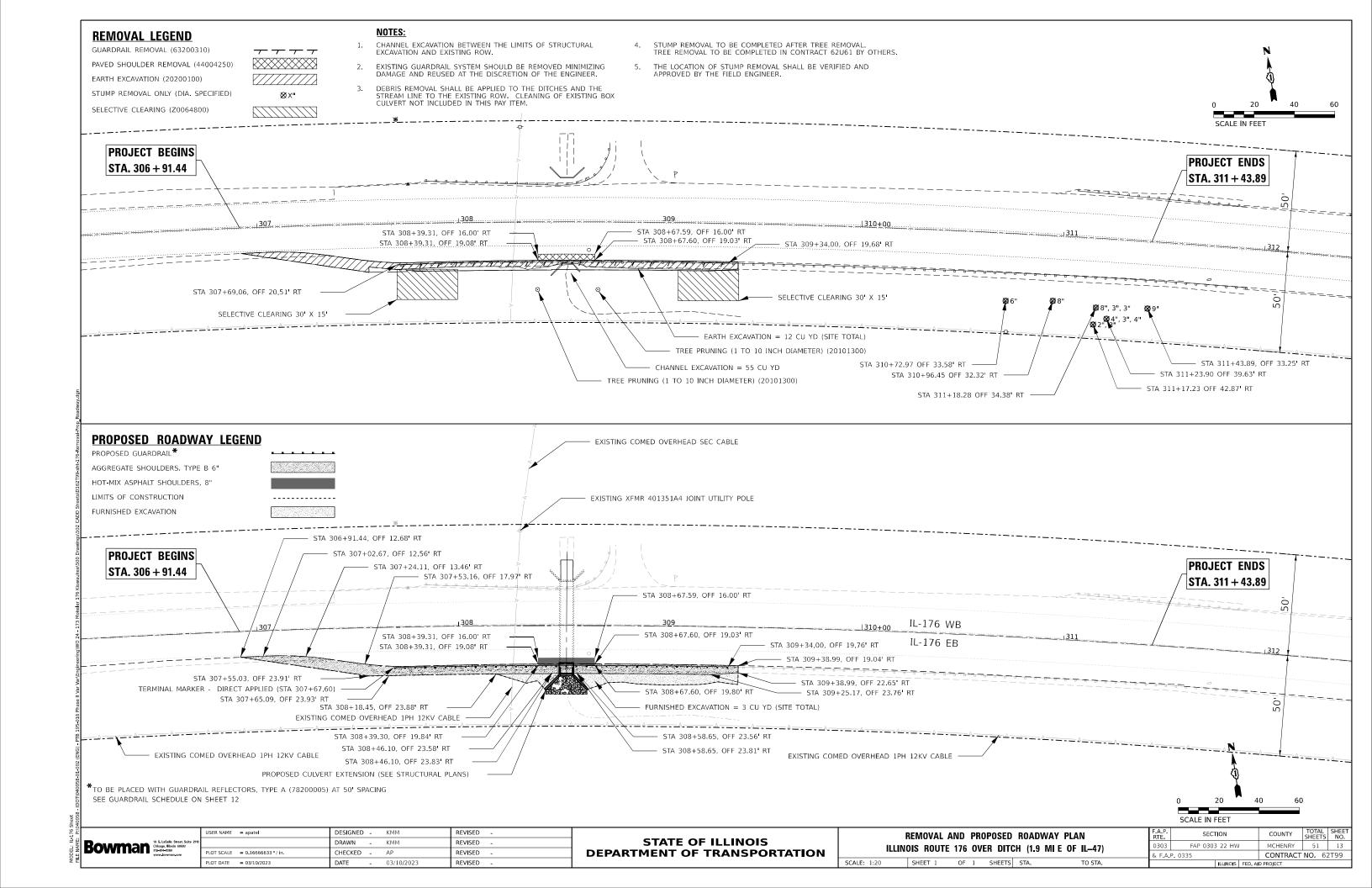
		USER NAME	= kmaus	DESIGNED	-	KMM	REVISED	-
Pourman	10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603			DRAWN	-	KMM	REVISED	-
lowm an	313-614-0360 www.bowman.com	PLOT SCALE	= 20.000 ' / in.	CHECKED	-	AP	REVISED	-
		PLOT DATE	= 03/10/2023	DATE	-	03/10/2023	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

E,	A SIMITSIN	ND DD	UDUCED	TVDICAL	SECTIONS	Ī
L	NISTING A	ווו טוי	OI OOLD	IIIIOAL	. SECTIONS	
HILIMO	IC DOLLTE	172 AL	IED DITCL	J /1 /2	MIE OF US-14)	
ILLINU	IS DUDIE	1/3 U\	CN DIICE	1 (1.43	IVII E UF U3-14)	
11 1 1814	NC DOLLTE	176 0	VED DITC	LL /4 0	MIE OF IL-47)	
ILLIIV	JIS RUUIE	1/0 U	VER DIIL	,П (I.9	IVII E UF IL-4/)	
	CHEET	OF	CHEETC	CTA	TO STA	

SECTION MCHENRY FAP 0303 22 HW 51 11 CONTRACT NO. 62T99





IL-173 GUARDRAIL ELEN	MENTS SCH	EDULE		
WB NORTH SHOULDER - STA 207+	72.82 TO STA	209+29.07		
ITEM DESCRIPTION	ITEM #	BEGIN STA	END STA	LENGTH
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100167	207+72.82	208+19.70	46'-10 1/2"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	208+19.70	208+32.20	12'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	63000007	208+32.20	208+44.70	12'-6"
STRONG POST GUARDRAIL ATTACHED TO CULVERT	63000030	208+44.70	208+57.20	12'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	63000007	208+57.20	208+69.70	12'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	208+69.70	208+82.20	12'-6"
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100167	208+82.20	209+29.07	46'-10 1/2"
EB SOUTH SHOULDER - STA 207+	10.70 TO STA	209+29.45		
ITEM DESCRIPTION	ITEM #	BEGIN STA	END STA	LENGTH
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100167	207+10.70	207+57.58	46'-10 1/2"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	207+57.58	208+32.58	75'
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	63000007	208+32.58	208+45.08	12'-6"
STRONG POST GUARDRAIL ATTACHED TO CULVERT	63000030	208+45.08	208+57.58	12'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	63000007	208+57.58	208+70.08	12'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	208+70.08	208+82.58	12'-6"
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100167	208+82.58	209+29.45	46'-10 1/2"

IL-176 GUARDRAIL ELEN	MENTS SCH	EDULE		
EB SOUTH SHOULDER - STA 307+	67.60 TO STA	309+34.00		
ITEM DESCRIPTION	ITEM #	BEGIN STA	END STA	LENGTH
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100167	307+67.60	308+14.69	46'-10 1/2'
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	308+14.69	308+33.53	18'-9"
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	63000007	308+33.53	308+46.09	12'-6"
STRONG POST GUARDRAIL ATTACHED TO CULVERT	63000030	308+46.09	308+58.65	12'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	63000007	308+58.65	308+71.21	12'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	308+71.21	309+34.00	62'-6"

Bowman 10 5, Liskdie Street, Seide Street, S

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED ROADWAY SCHEDULES
ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US—14)
ILLINOIS ROUTE 176 OVER DITCH (1.9 MI E OF IL—47)

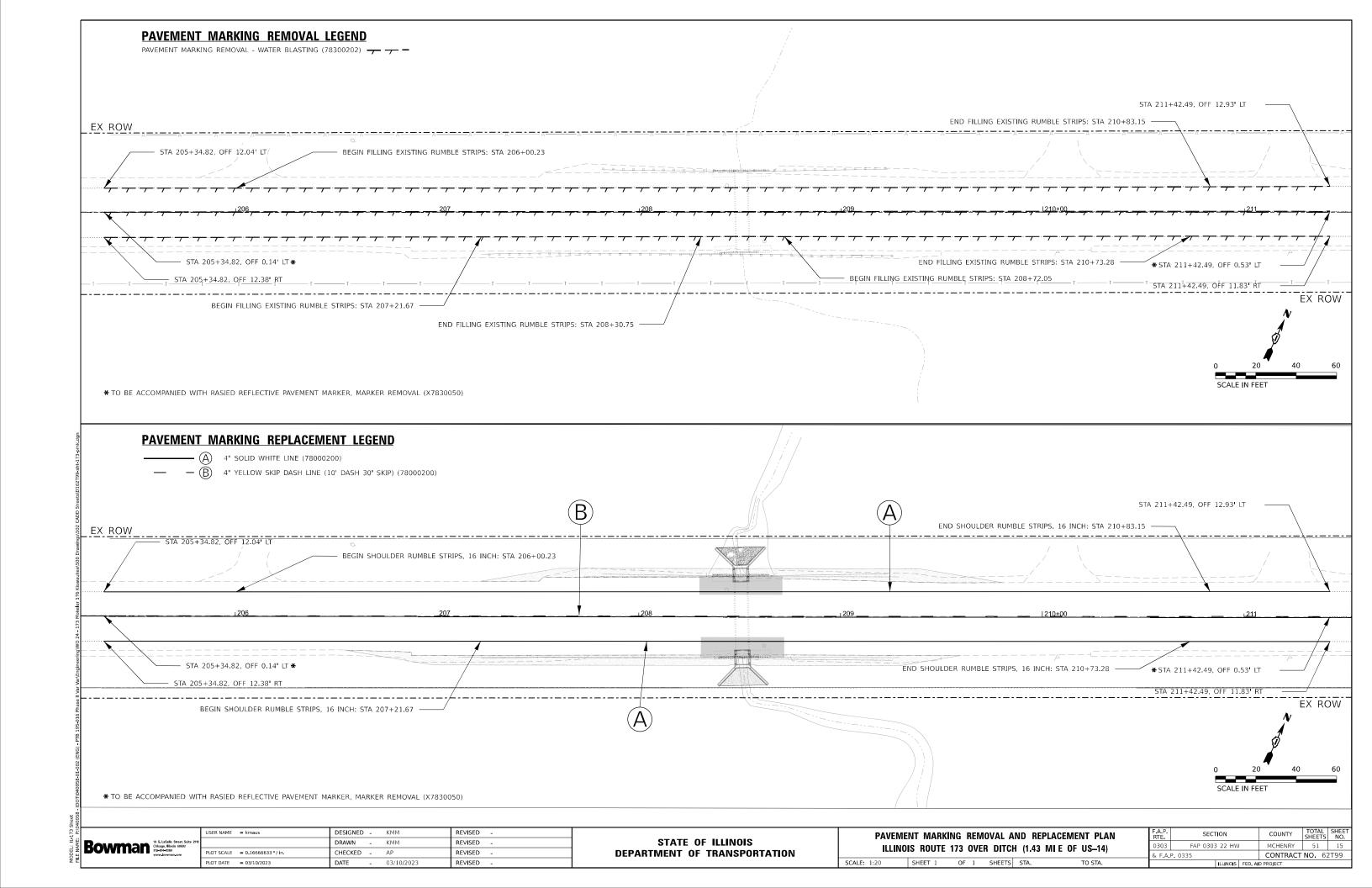
| SHEET 1 OF 1 SHEETS STA. TO STA.

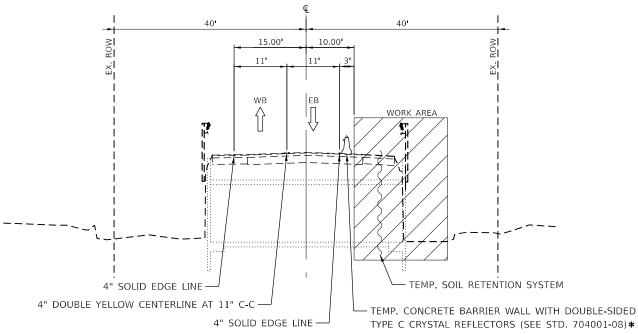
 F.A.P. RTE.
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 0303
 FAP 0303 22 HW
 MCHENRY
 51
 14

 & F.A.P. 0335
 CONTRACT NO. 62T99

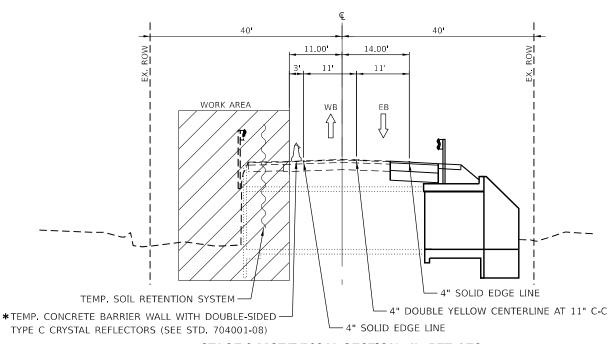
 ILLINOIS
 FED. AID PROJECT





STAGE 1 MOT TYPICAL SECTION - IL. RTE.173

CULVERT AT MOKELER CREEK STA 208+50.98



STAGE 2 MOT TYPICAL SECTION - IL. RTE.173

CULVERT AT MOKELER CREEK STA 208+50.98

*TYPE C REFLECTORS SHALL BE CONSIDERED INCLUDED IN THE

COST OF TEMPORARY CONCRETE BARRIER

DESIGNED - KMM REVISED DRAWN - KMM REVISED Bowman Chicago, Illinois REVISED PLOT DATE = 03/10/2023 DATE - 03/10/2023 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14) ILLINOIS ROUTE 176 OVER DITCH (1.9 MI E OF IL-47)

SECTION FAP 0303 22 HW MCHENRY 51 16 CONTRACT NO. 62T99

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED, VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS, COORDINATE INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT ALONG IL-173 AND IL-176 AND IMPACTED CROSS STREETS. THE IMPROVEMENTS WILL BE CONSTRUCTED USING LANE SHIFTS ONTO EXISTING SHOULDERS PER DISTRICT ONE STANDARDS AND HIGHWAY STANDARDS.

IL-173: STAGE 1

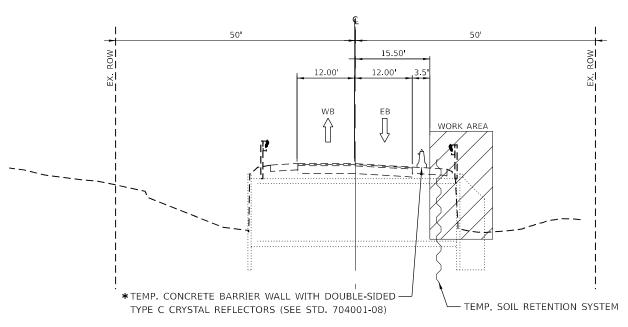
- 1. UTILIZING HIGHWAY STANDARDS REMOVE CONFLICTING PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS. INSTALL TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE TRAFFIC CONTROL PLAN TO MAINTAIN IL-173 EASTBOUND AND WESTBOUND LANES OVER CULVERT.
- 2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES.
- INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS TO CLOSE THE EASTBOUND SHOULDER,
- COMPLETE THE SOUTH SIDE CULVERT REPAIRS INCLUDING CULVERT EXTENSION SOUTH OF IL-173, PARTIAL SHOULDER REMOVAL AND REPLACEMENT, REMOVAL AND REPLACEMENT OF GUARDRAIL, INSTALLATION OF HANDRAIL, AND INSTALLATION OF RIPRAP AND LANDSCAPING.

IL-173: STAGE 2

- REMOVE TEMPORARY PAVMENT MARKINGS PLACED IN STAGE 1. INSTALL TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE TRAFFIC CONTROL PLAN TO MAINTAIN IL-173 EASTBOUND AND WESTBOUND LANES OVER CULVERT.
- 2. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS TO CLOSE THE WESTBOUND SHOULDER.
- COMPLETE THE NORTH SIDE CULVERT REPAIRS INCLUDING CULVERT EXTENSION NORTH OF IL-173, PARTIAL SHOULDER REMOVAL AND REPLACEMENT, REMOVAL AND REPLACEMENT OF GUARDRAIL, INSTALLATION OF HANDRAIL, AND INSTALLATION OF RIPRAP AND LANDSCAPING.

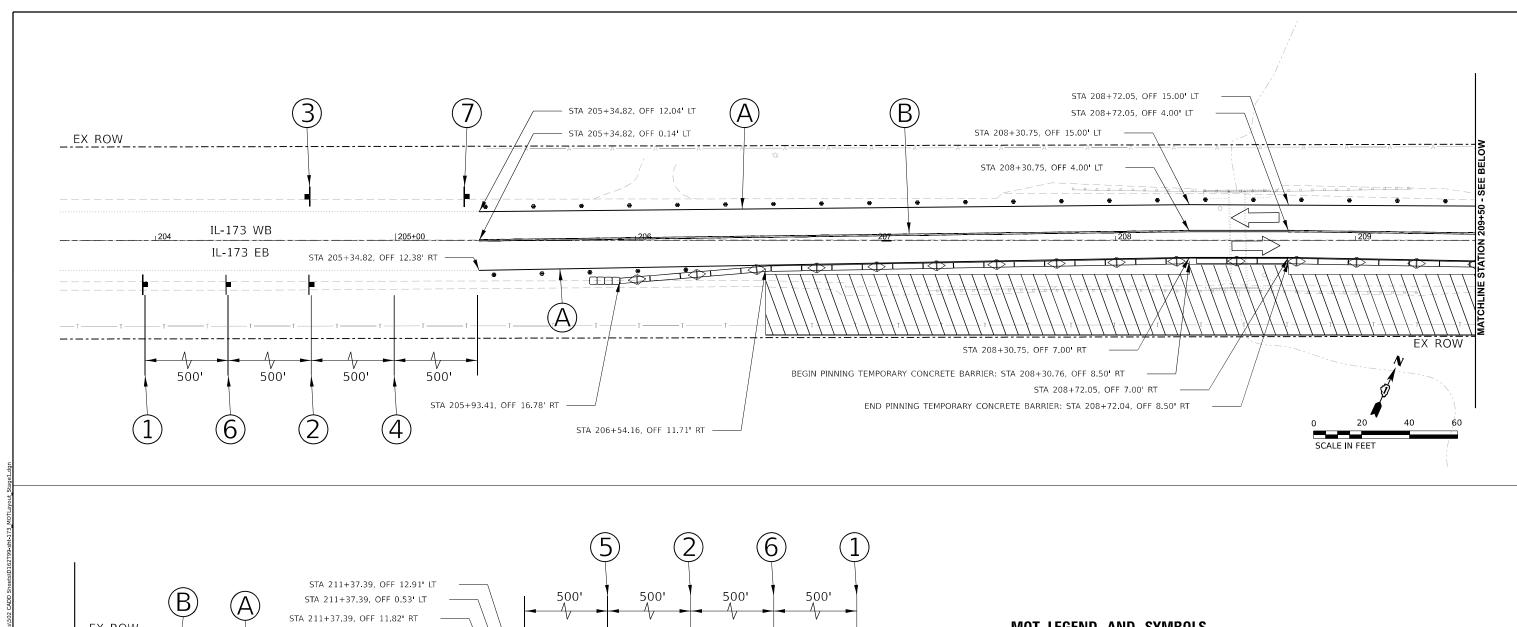
IL-176 STAGING

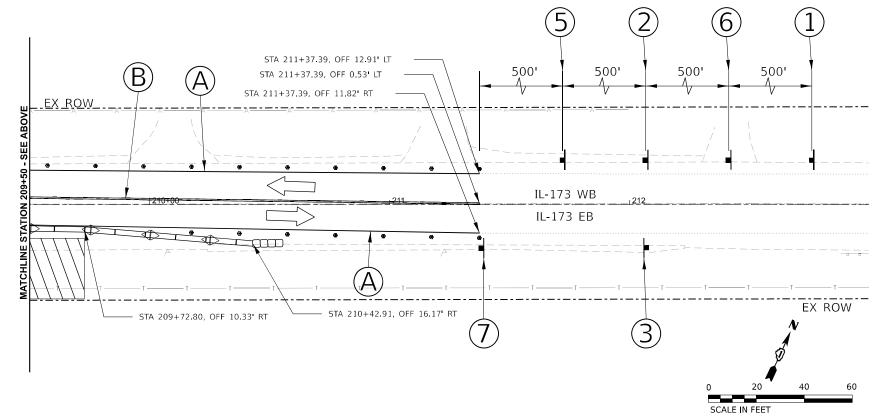
- 1. UTILIZING HIGHWAY STANDARDS REMOVE CONFLICTING PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS, INSTALL TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE TRAFFIC CONTROL PLAN TO MAINTAIN IL-176 EASTBOUND AND WESTBOUND LANES OVER CULVERT.
- INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES.
- INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS TO CLOSE THE EASTBOUND SHOULDER.
- COMPLETE THE SOUTH SIDE CULVERT REPAIRS INCLUDING CULVERT EXTENSION SOUTH OF IL-176, PARTIAL SHOULDER REMOVAL AND REPLACEMENT, REMOVAL AND REPLACEMENT OF GUARDRAIL, INSTALLATION OF HANDRAIL, AND INSTALLATION OF RIPRAP AND LANDSCAPING.



MOT TYPICAL SECTION - IL. RTE. 176

CULVERT AT DITCH TO KISHWAUKEE RIVER STA 308+53.53





MOT LEGEND AND SYMBOLS

- (A) 4" SOLID WHITE LINE (70307120)
- B 4" DOUBLE YELLOW CENTERLINE AT 11" C-C
- DRUMS AT 20' C-C SPACING
- TEMPORARY CONCRETE BARRIER (70400100)
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 (70600260)
- WORK AREA
- DOUBLE-SIDED CRYSTAL BARRIER WALL REFLECTOR, TYPE C, 25' SPACING PER STDS. 704001 AND 782006
- PROPOSED SIGN

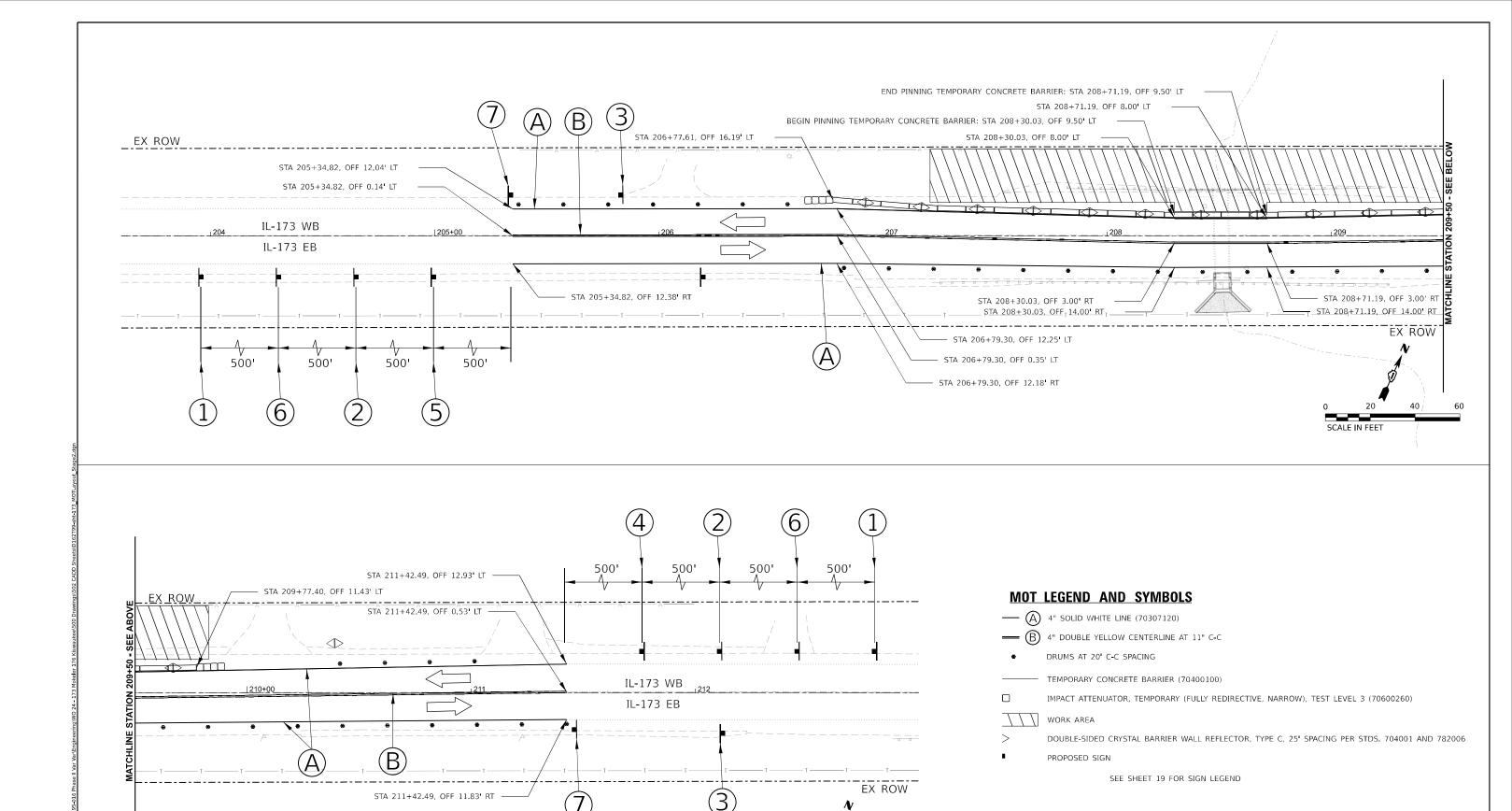
SCALE:

SEE SHEET 19 FOR SIGN LEGEND

		USER NAME = kmaus	DESIGNED - KMM	REVISED -	
Bowman	10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - KMM	REVISED -	
DUVVIIIAII	312-514-0350 www.bowman.com	PLOT SCALE = 0.166666 / in.	CHECKED - AP	REVISED -	
		PLOT DATE = 03/10/2023	DATE - 03/10/2023	REVISED -	

STATE O	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	MAINT	NANCE	OF TRA	FFIC STAGE	1	F.A.P. RTE	SECTION	CC
II I INO	IC BUILLE	172 AV	ED NITCI	I (1.43 MIE	OF US 14\	0303	FAP 0303 22 HW	MC
ILLINU	IS NOUTE	173 00	LII DIIGI	1 (1.43 IVII L	01 03-14/	& F.A.	P. 0335	CO
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED, A	D PROJE



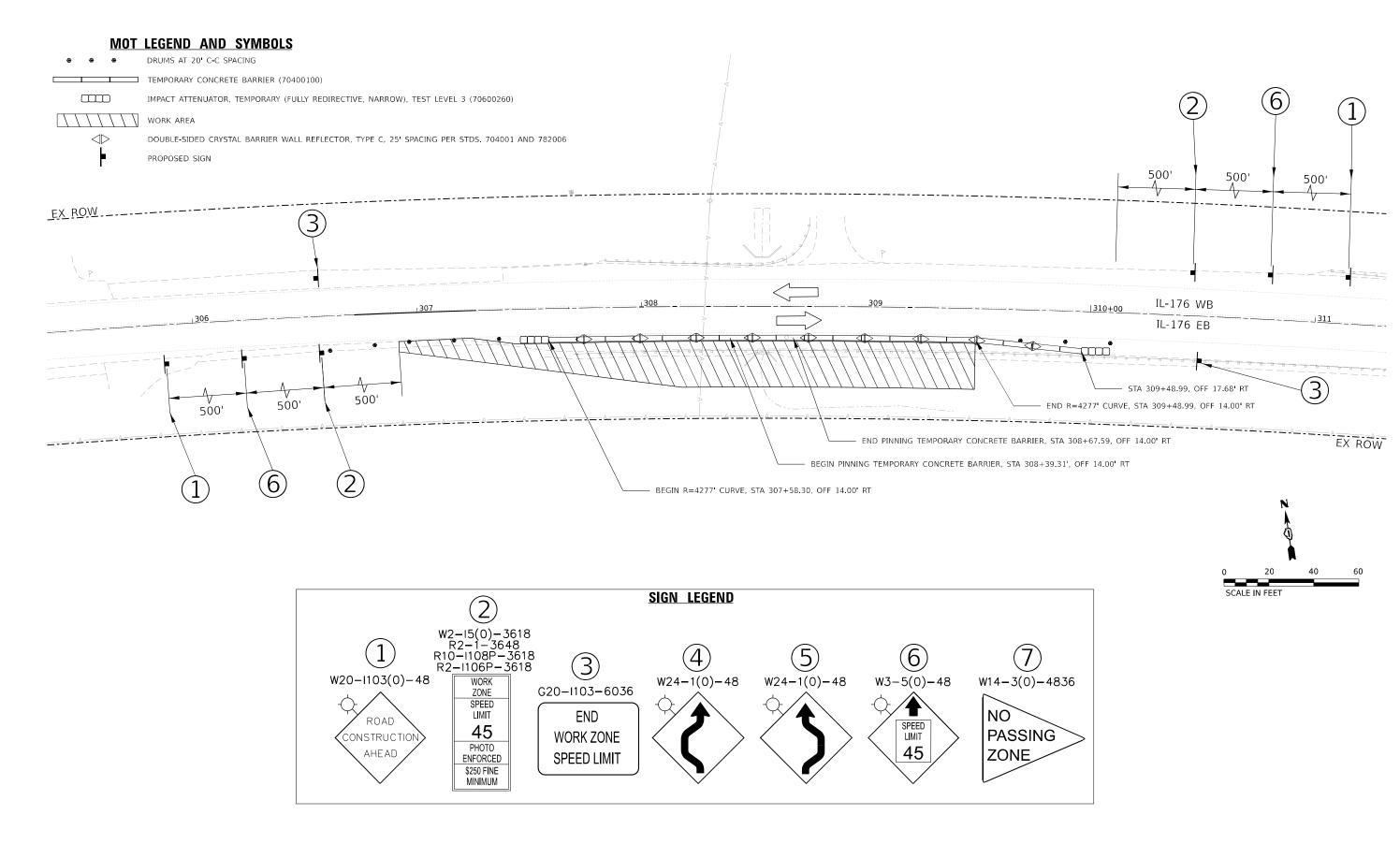
	USER NAME = kmaus	DESIGNED - KMM	REVISED -
Bowman 10 S. LaSalle Street, Suite 2710 Chicago, Illinois 60603 312-614-0360		DRAWN - KMM	REVISED -
DOWIIIAII 312-614-0360	PLOT SCALE = 0.166666 / in.	CHECKED - AP	REVISED -
	PLOT DATE = 03/10/2023	DATE - 03/10/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC STAGE 2

ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14)

20 SHEET 2 OF 2 SHEETS STA. TO STA.

ong Section Number



MODEL: Plan (Sheet)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ong Section Number



SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 8/25/22

ROUTE	IL-173	_ DESC	RIPTION	٧		IL-173 Box Culvert	L	OGG	ED BY	<u>A. B</u>	oland
SECTION			LOCA	NOITA	209	8825.830,916326.065					
						Stem Auger HAMMER 1	YPE		Auto	matic	
	056-0202 79+80		L O	U C S	M O I S	Surface Water Elev. Stream Bed Elev.	ft ft	D E P T	в∟о⊌	U C S	M 0 1 s
Station Offset	IL-173-BCB-02	_	s	Qu	Т	Groundwater Elev.: First Encounter 946.2 f Upon Completion 936.2 f	t <u>▼</u> t ∑	H	S	Qu	Т
Ground Surf	ace Elev. 964.70	ft (ft	(/6")	(tsf)	(%)	After Hrs. Not Taken f	t	(ft)	(/6")	(tsf)	(%)
STONE (6")	rown SANDY CLAY	964.37 963.87	-			Brown SAND and GRAVEL (continued)		_			
LOAM, and gr	avel	_	4 3		13.5	Dense, moist			7 12		11.9
		_	3	0.5	13.3				20		11.9
Vory loose bro	own, SANDY LOAM,	961.70		P/		Stiff brown/gray CLAY, trace	941.70				
and gravel	JWII, SANDT LOAW,	-	3			gravel, moist		_	2		
		_	1 2		9.9				4 7	1.8	12.6
			5 2					25		1.0 _B/	\vdash
Medium dense	•		3						3		
Medium dense	5	-	5		9.4			_	4		12.3
			5						6	1.5 \ B /	
		_	-			Very stiff, brown LOAM, trace	936.70	∇		<u> </u>	
Medium dense	е	_	8 15		10.8	gravel Shelby tube taken @ 28'-30'.				3.0	10.6
		_ -1	0 6		10.6	LL=19%, PI=8%	934.70	-30		3.0 B	
Provin CAND	and GRAVEL	954.20				End of boring at 30'					
Medium dense			5								
		_	6 6		6.3						
		-	0					_			
Madium dana		_	5					_			
Medium dense	e	<u>-</u>	5		9.7						
			5 7					-35			
		-	-					_			
Medium dense	e, moist	_	10		40.0			_			
		_	6 7		10.3						
		_	1								
Dense, moist		▼.	11					_			
		_	12		10.9			_			
		-2	0 19					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 8/25/22

ROUTEIL-173	DES	SCR	IPTION	1		IL-173 Box Culvert	LC	OGGI	ED BY	<u>A. B</u>	oland_
SECTION		_	LOCA	ATION	2098	3808.444,916354.429					
COUNTY McHenry D						Stern Auger HAMME	R TYPE		Auto	matic	
STRUCT. NO. 056-0202 Station 79+80	_	D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.	ft ft	D E P	B L O	U C S	M O I
BORING NO.		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter	6 ft ∑		W S (/6")	Qu (tsf)	S T (%)
ASPHALT (4")		<u> </u>	4	(,	(74)	Medium dense, brown SAND, some gravel (continued)	<u></u> t	_	6	(/	(33)
Stiff, trace gravel		_	2 3	1.5 P	15.6		941.58	_	7		10.6
Soft, little gravel		_	7 8		14.6	Dense brown, SANDY LOAM, al gravel, moist	nd	_	4		15.1
Loose brown SANDY LOAM,	959.08	-5	6			Stiff brown/gray CLAY, trace	939.08	25	28		
some gravel		_	2 2 3		8.1	gravel, moist		_	5 4 6	1.5	13.0
Medium stiff, dark brown CLAY LOAM, some sand, little gravel	956.58	_	3		16.4	Stiff, brown SANDY LOAM, little gravel Shelby tube taken @ 28'-30'.		_ _		1.9	11.4
Medium stiff, dark brown SANDY	954.08	-10	1	0.5 P		LL=19%, PI=8% End of boring at 30'	934.58	-30		В	
CLAY LOAM, some rock aggregate		_	6 8 8		10.7						
Medium dense, brown SAND, some gravel	951.58	_	6		8.3			_			
		-15	10								
		_	6 7 8		11.3						
		<u>¥</u> _	5 6		15.5						
		-20	7					<u>-</u> 40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

Bowman 19 5. Ludsille Street, Sulte 211 Chicago, Bloods 60003 Sta-Gh-Golds word, Downland, Communication (Communication)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL SOIL BORINGS
ILLINOIS ROUTE 173 OVER DITCH (1.43 MI E OF US-14)

SHEET 1 OF 2 SHEETS STA. TO STA.

Long Section Number

FILE NAME: P:\040058 - IDOT\

SHEEL 1 OF 2 SHEELS STA. 10 STA.



SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>8/24/22</u>

ROUTE	IL-176	DES	CRI	PTION	١		IL-176 Box Culvert	_ LC	OGGE	ED BY	<u>A. B</u>	oland
SECTION			_	LOCA	NOITA	2033	3717.368,970089.592					
							Stem Auger HAMMER TY	YPE .		Auto	matic	
			DEPT	B L O W	U C S	M 0 - s	Surface Water Elev. Stream Bed Elev.	ft ft	DEPT	Яогя	ø o ⊂	⊠ 0 – ø
Station Offset	IL-176-BCB-01		Н	S	Qu	Т	Groundwater Elev.: First Encounter 884.7 ft Upon Completion 887.7 ft	<u>¥</u>	Н	s	Qu	Т
Ground Surface	ce Elev. 903.25		(ft)	(/6")	(tsf)	(%)	After Hrs. Not Taken ft		***	(/6")	(tsf)	(%)
STONE (7")		902.83 902.25	_				NO RECOVERY (continued) 8 Gray SAND and GRAVEL, moist	82.75	-			
Medium dense l	brown, SANDY	902.23		3			Loose	3	_	3		
LOAM and grav	rel	-		5 5		11.3				3 4		12.5
Modium stiff bro	own SANDY CLAY	900.25										
LOAM, trace gra		_		1 2		13.6	Medium dense		_	15 14		6.5
Loose brown, S	AND, trace gravel	-	5	3	0.5	13.0		1	 25	8		0.5
Medium stiff, bro	OWD SANDY	897.75	_		<u> P</u>				_			
CLAY LOAM, so		-		2			Loose	1		10		
		-		1	0.6	14.3				4 5		11.5
		895.25	_	<u> </u>	B.				_			
Very loose, brov GRAVEL, moist							Mark and description		_	10		10.1
GRAVEL, MOISI		-		2		9.7	Medium dense 8 Stiff gray CLAY, moist. Moisture =	74.25		8 6		13.4
			-10	1		0	10.00/	73.25	-30			
Lagge gray CII	TY LOAM, some	892.75	_				End of boring at 30'		_			
sand, some gra		-		3								
		891.25		2		11.7						
little gravel, moi	ay SANDY LOAM, st		_	2					_			
Shelby tube take	en (offset) @ %, PI=5%,Qu=0.68	-										
tsf,moisture=11.	.3%	889.25		2		10.0		3	$\overline{-}$			
Medium stiff, gra little gravel	ay CLAY LOAM,		 -15	2	0.6	10.0			-35			
		887.75			В				-55			
Loose, ROCK A	AGGREGATE	-		6								
			_	3					-			
		-		4								
NO RECOVER	Υ	885.25						1				
	-											
			-20						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

	USER NAME = kmaus	DESIGNED - KMM	REVISED -			G	GENTE	CHNICA	02 14	II RORINO	GS	F.A.P.	SECTION	COUNTY	TOTAL
10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - KMM	REVISED -	STATE OF ILLINOIS		-						0303	FAP (Seption HW	MCHENRY	Y 51
DOVIII AII 313-614-6360	PLOT SCALE = 2.0000 / in.	CHECKED - AP	REVISED -	DEPARTMENT OF TRANSPORTATION		ILLINUIS KUU	JIE IA	10 UVE	K VII	CH (1.9 I	IVII E UF IL—4/)	& F.A.P.	0225	CONTRA	ACT NO. 62
	PLOT DATE = 03/10/2023	DATE - 03/10/2023	REVISED -		SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.						TO STA.		ILLINOIS FED.	AID PROJECT	
	10 S. LaSalle Street. Suite 2110 Chicago. Illinois 60603 373-415-000 vww.bowman.com	Sowman 10, S. LaSalle Street, Suite 2110 Chappe Blinok 6003 Www.beoman.com PLOT SCALE = 2.0000 '/ in.	10 S.LaSidii Stret, Sulte 2110 DRAWN - KMM	DRAWN - KMM	Sowman Struct, Saler 210 Drawn - KMM REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	Sowman State Street, Side Stree	TO S. Lisbelle Street, Select 2100 TO S. Lisbelle Street, Select	TO SALISMUS Street, Sider 2000 Circipo, Hilloris 60062 PLOT SCALE = 2,0000 '/ in. CHECKED - AP REVISED - DEPARTMENT OF TRANSPORTATION GEOTTE 1	FOWMAN 10 STATE OF ILLINOIS The stands of	FOWMAN 10, Lisking Strint, Dale 2100 TO S. Lisking Strint, Dale 2100 TO S. Lisking Strint, Dale 2100 PLOT SCALE = 2,0000 ' / in. CHECKED - AP REVISED - DEPARTMENT OF TRANSPORTATION GEOTECHNICAL SO ILLINOIS ROUTE 176 OVER DIT	FOWMAN 10 STATE OF ILLINOIS The stands and the stands are a stands and the stands are a stand	SOWMAN 10.5 Listed to Struct. Side 2 2000 1/ in. CHECKED - AP REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS BOUTE 176 OVER DITCH (1.9 MI E OF IL—47)	SOWMAN DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS GEOTECHNICAL SOIL BORINGS GEOTECHNICAL SOIL BORINGS RTE. 0303 ILLINOIS ROUTE 176 OVER DITCH (1.9 MI E OF IL—47) © F.A.P.	SOWMAN DEPARTMENT OF TRANSPORTATION TO S. Lische Struct, Solic 2000 1/ in. The Control of the	FOR THE PROPERTY OF TRANSPORTATION TO STATE OF ILLINOIS OF TRANSPORTATION OF TRANSPORTATION TO STATE OF ILLINOIS OF TRANSPORTATION OF TRANSPORTATION OF TRANSPORTATION OF TRANSPORTATION OF TRANSPORTATION

EROSION CONTROL AND LANDSCAPING 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. 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.
- 5. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME. PERMANENT SEED AND FINAL LANDSCAPING SHALL BE PLACED IN STAGE IF ALLOWED BY THE SEEDING DATES IN ARTICLE 250.07.
- 6. ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES ARE INCIDENTAL TO THE CONTRACT.
- AS DIRECTED BY THE ENGINEER, MULCH METHOD 2 SHOULD BE APPLIED TO SLOPES FOR TEMPORARY STABILIZATION PRIOR TO SEASONS WHEN TEMPORARY SEED WILL NOT GERMINATE.
- 8. REFER TO STRUCTURAL PLANS FOR WATERWAY INFORMATION TABLE FOR 2 YEAR STORM INFORMATION FOR THE COFFERDAM.
- FIGURE 2. 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 WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.
- 10. PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).
- 11. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR LAYOUT APPROVAL OF THE SEEDING, TREES, SHRUBS, AND PLUGS.
- 12. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR IF THE WORK AREA IS TO LEFT UNDISTURBED FOR 14 DAYS OR MORE.

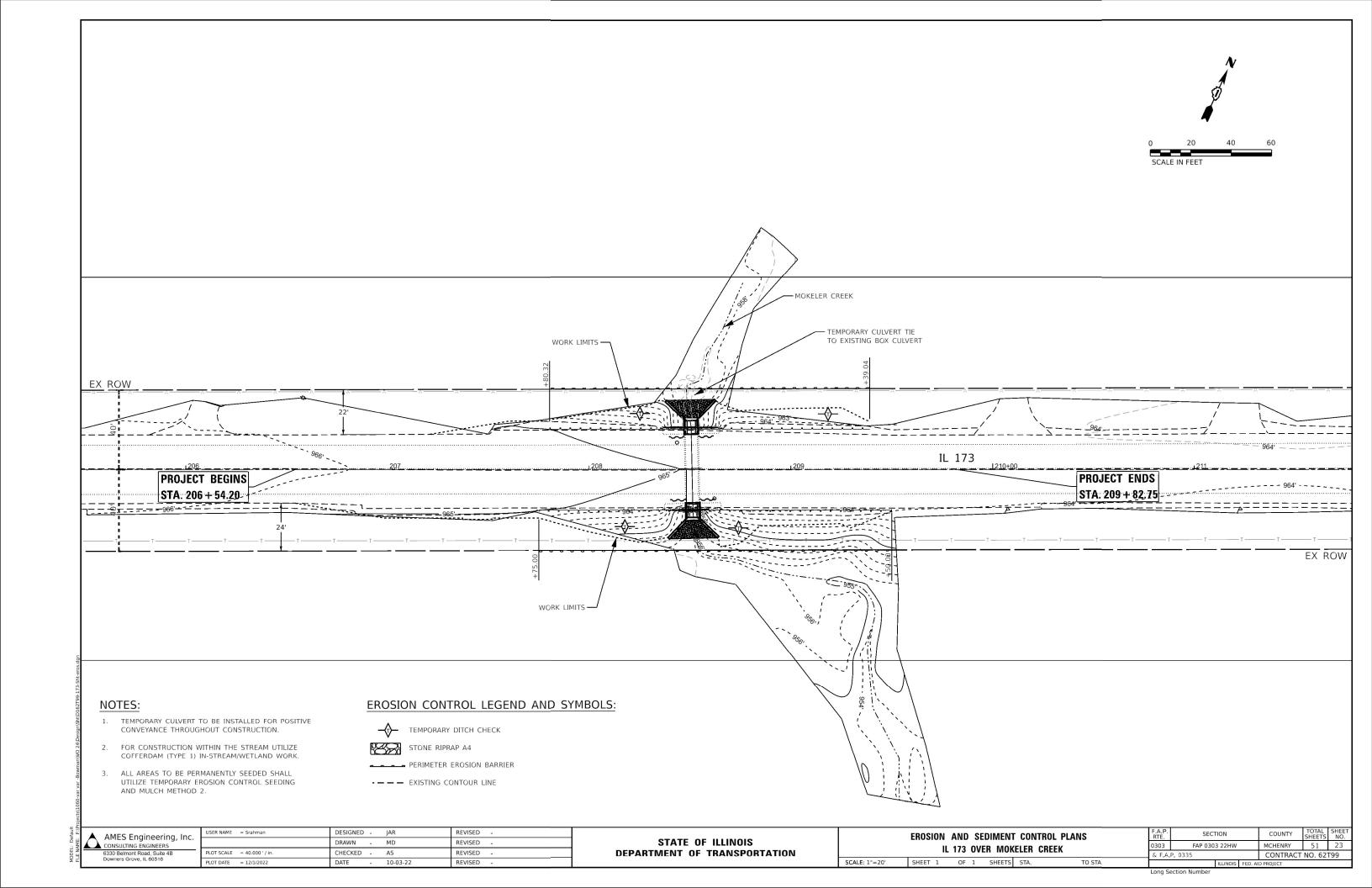
Δ	AMES Engineering, Inc. consulting engineers	
	6330 Belmont Road, Suite 4B Downers Grove, IL 60516	L

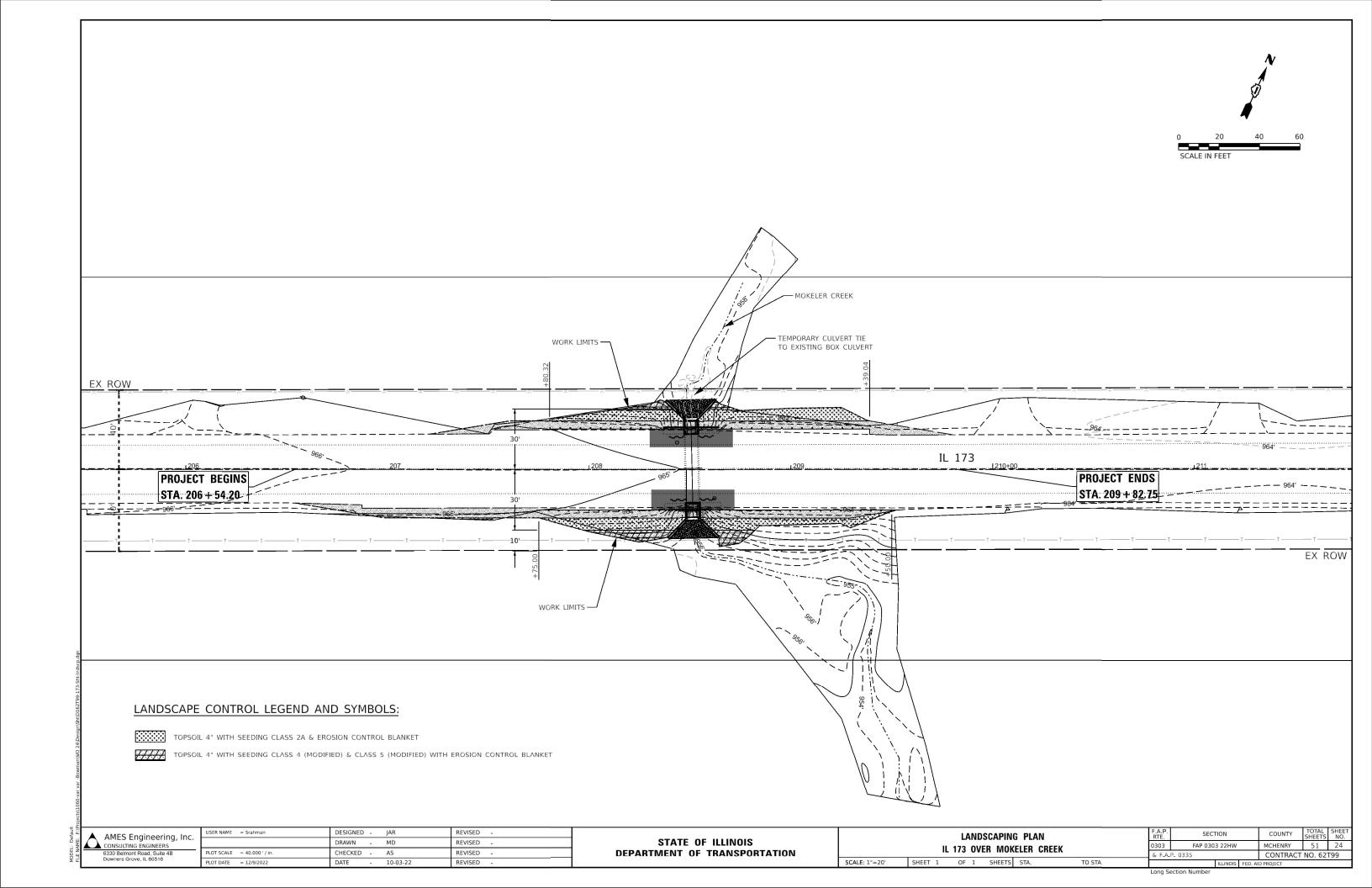
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PLOT SCALE = \$SCALE\$	CHECKED - AS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE

	EROSION (CONTROL NO	OTES	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
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				& F.A.P. 0335			CONTRACT NO. 62T99		Г99
	SHEET 1 OF 1 S	SHEETS STA.	TO STA.		ILLINOIS	FED. AID	PROJECT		





EROSION CONTROL AND LANDSCAPING NOTES:

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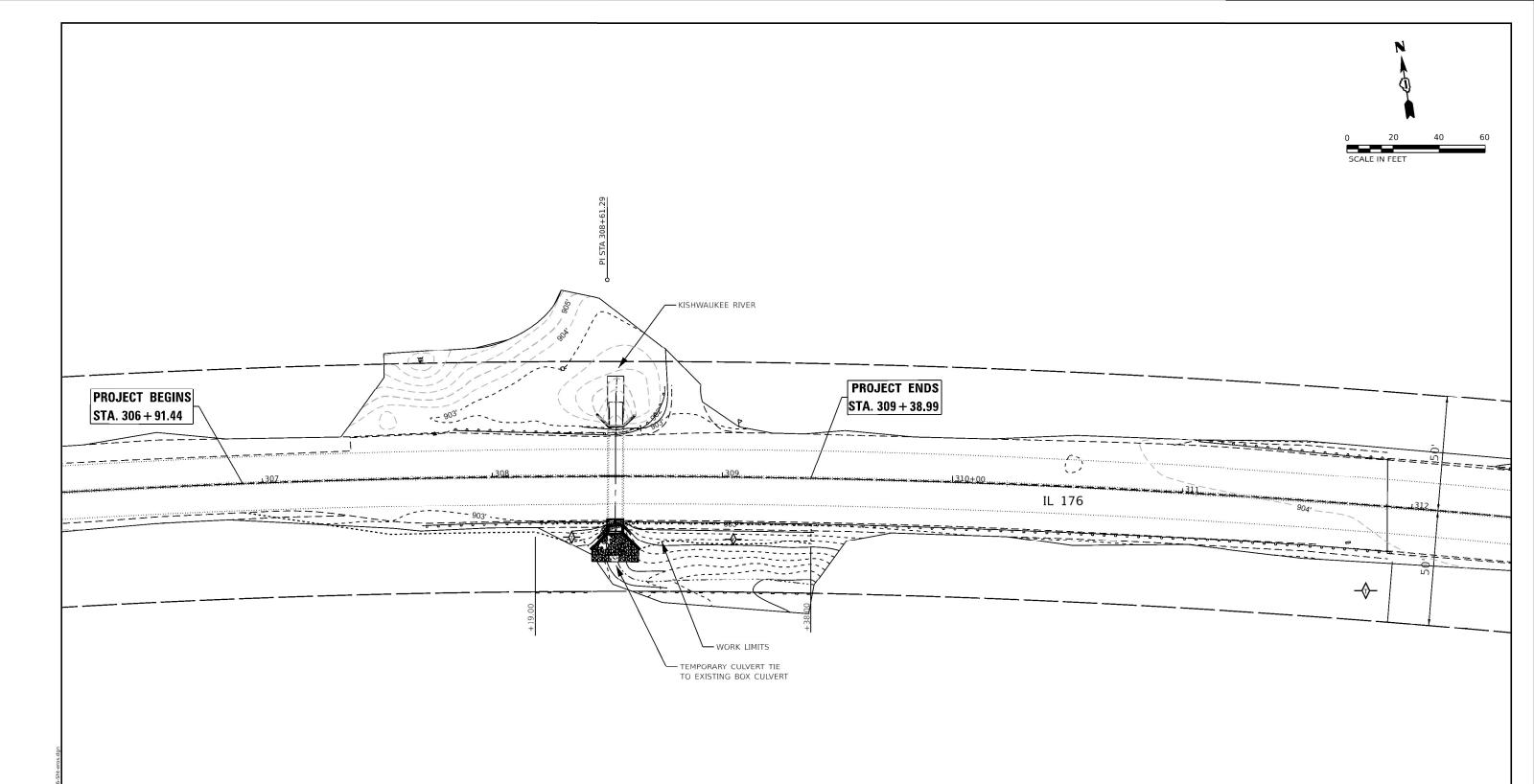
4	AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 48 Downers Grove, IL 60516	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE

EROSION CONTROL NOTES		F.A.P. SECTION			COUNTY	
IL 176 OVER KISHWAUKEE RIVER	0303	FAP 0303 22HW		MCHENRY		
IL 170 OVER KISHWAOKEE HIVEH		& F.A.	P. 0335		CONTRAC	
SHEET 1 OF 1 SHEETS STA	TO STA		II LINOIS	EED AL	D DDO JEOT	



NOTES:

- TEMPORARY CULVERT TO BE INSTALLED FOR POSITIVE CONVEYANCE THROUGHOUT CONSTRUCTION.
- FOR CONSTRUCTION WITHIN THE STREAM UTILIZE COFFERDAM (TYPE 1) IN-STREAM/WETLAND WORK.
- 3. ALL AREAS TO BE PERMANENTLY SEEDED SHALL UTILIZE TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2.

EROSION CONTROL LEGEND AND SYMBOLS:



PERIMETER EROSION BARRIER

--- EXISTING CONTOUR LINE

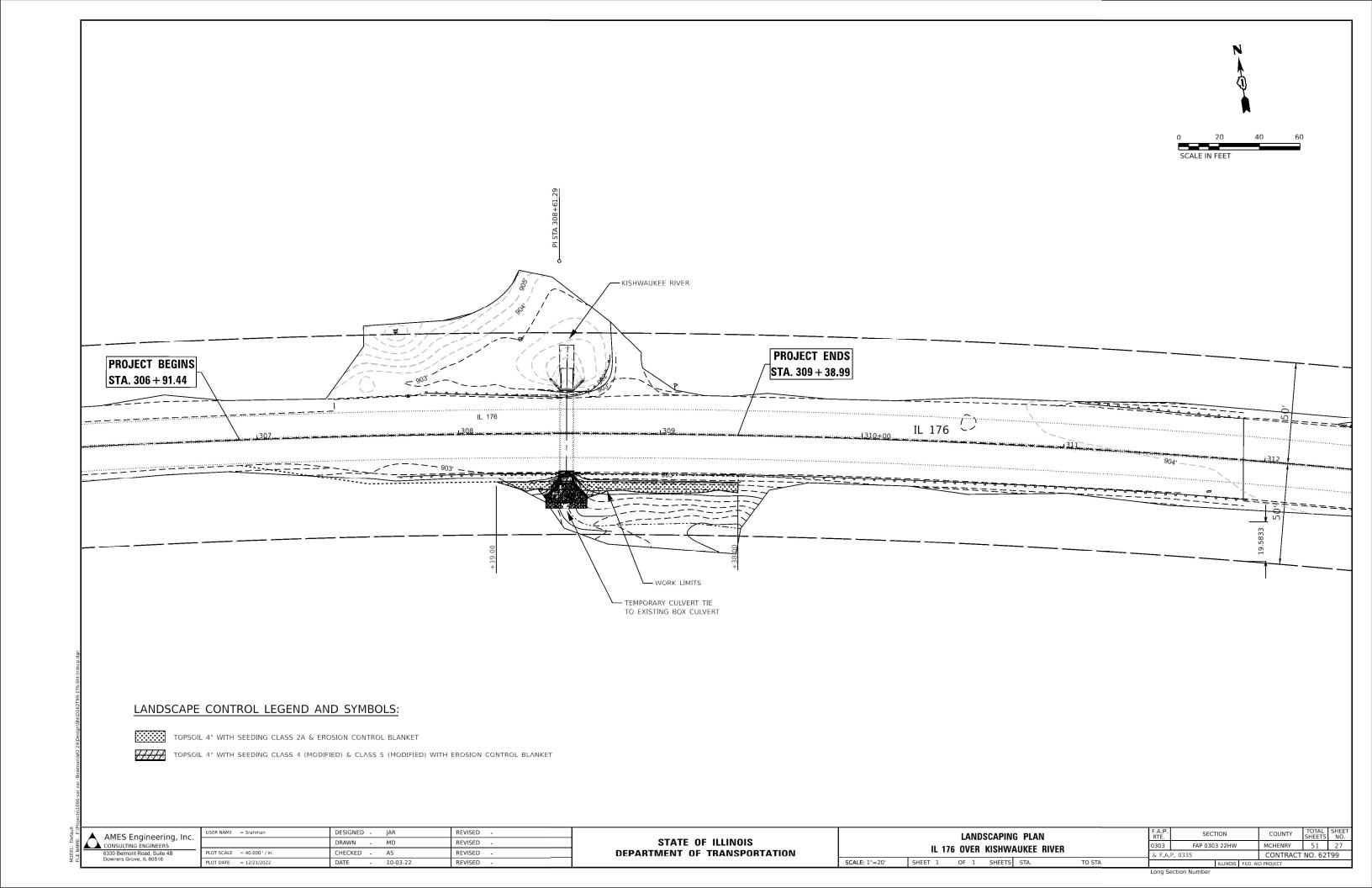
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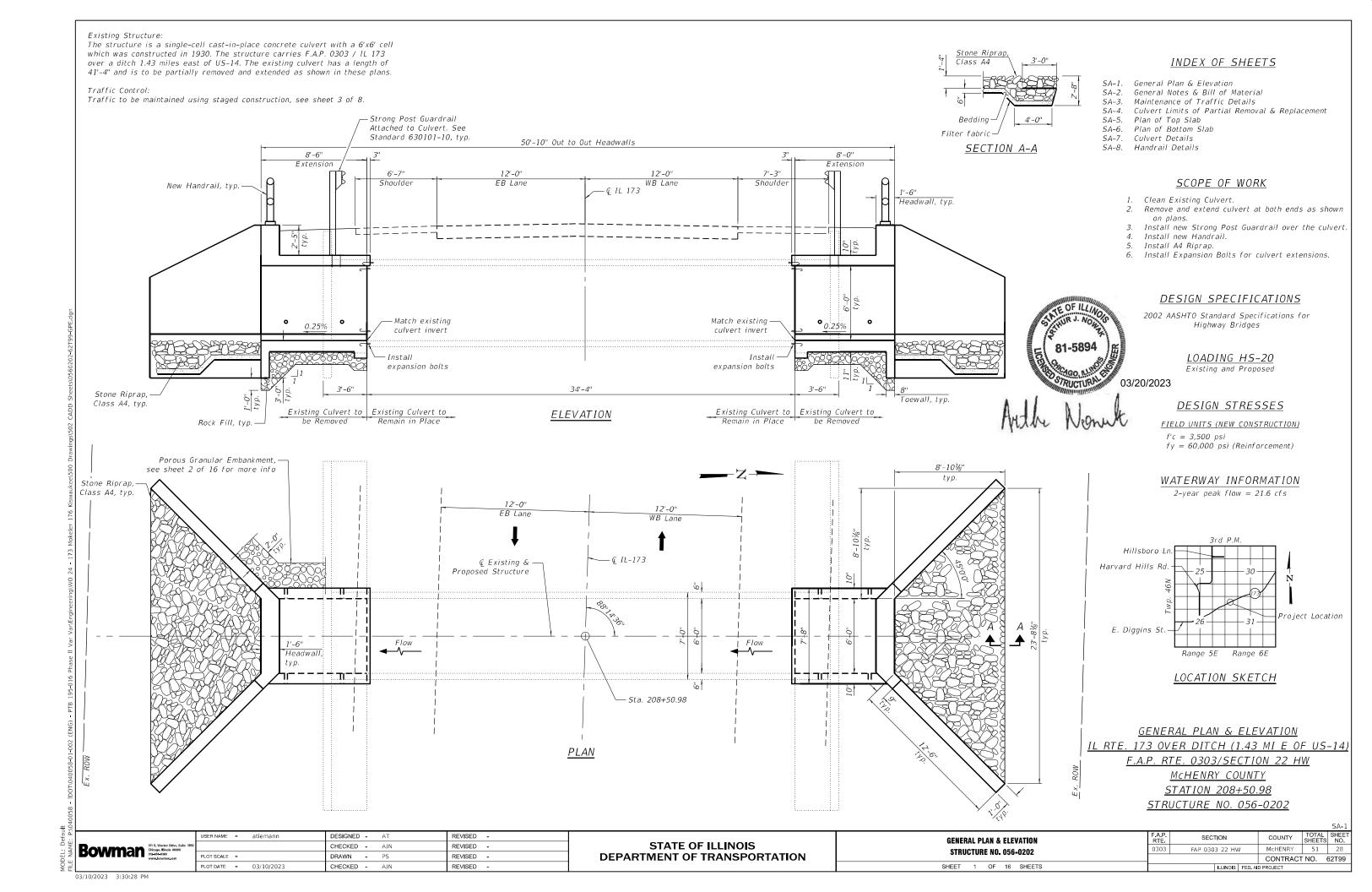
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STATE OF ILLINOIS						
DEPARTMENT	0F	TRANSPORTATION				

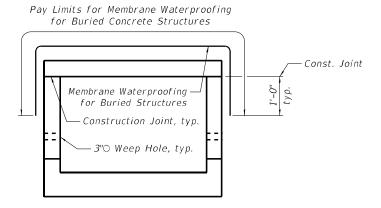
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IL 176 OVER KISHWAUKEE RIVER						
SHEET 1	OF 1	SHEETS	STA	TO STA		

F.A.P. RTE.	SECTION			COUNTY	TOTAL SHEETS	SH N
0303	FAP 0303 22HW			MCHENRY	51	2
& F.A.P. 0335				CONTRACT	NO. 62	Г99
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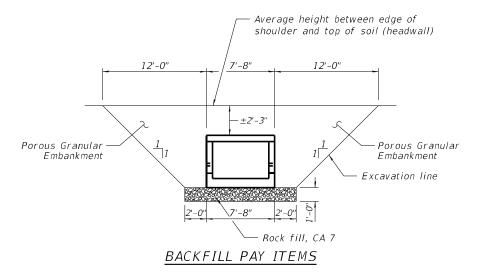
- All exposed concrete edges shall have a ¾" x 45° chamfer, except where shown otherwise. chamfer on vertical edges shall be continued a minimum of one foot within finished ground level.
- 2. Reinforcement bars designated "(E)" shall be epoxy coated.
- Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures, ACI 315.
- 4. Reinforcement bar bending dimensions are out to out.
- 5. Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.
- 6. Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for information only.
- 8. No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
- 9. No concrete cutting shall be permitted until the cutting limits have been outlined by the Contractor and approved by the Engineer.
- 10. During construction, OSHA requires that a minimum of thirteen (13) feet working clearance must be maintained between the booms, arms or other parts that can be raised on the equipment by the contractor and ComEd's existing electric transmission lines. Contractor shall coordinate with ComEd at no additional cost to the contract if work area is less than 13 ft.
- 11. Temporary Soil Retention System shall be designed by the Contractor.
- 12. Cleaning, removing and disposing of all debris and obstructions outside the limits of the existing culvert cells is included in the "Box Culvert to be Cleaned" pay item.
- 13. Existing longitudinal reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



MEMBRANE WATERPROOFING DETAIL

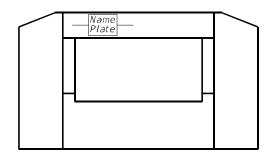
TOTAL BILL OF MATERIAL

PAY ITEM	ITEM	UNIT	TOTAL
20700220	Porous Granular Embankment	CU YD	140
21001000	Geotechnical Fabric for Ground Stabilization	SQ YD	30
28100107	Stone Riprap, Class A4	SQ YD	30
28200200	Filter Fabric	SQ YD	53
50102400	Concrete Removal	CU YD	10.9
50200100	Structure Excavation	CU YD	192
50800205	Reinforcement Bars, Epoxy Coated	POUND	6,700
50901760	Pipe Handrail	F00T	11.5
51500100	Name Plates	EACH	1
52200020	Temporary Soil Retention System	SQ FT	598
54002040	Expansion Bolts 3/4 Inch x 6 Inch	EACH	40
54003000	Concrete Box Culverts	CU YD	32.0
60905305	Box Culverts to be Cleaned	F00T	52
X0900064	Membrane Waterproofing System for Buried Structures	SQ YD	21.5
Z0012754	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	16.0
Z0054400	Rock Fill	CU YD	9.2
Z0073400	Temporary Support System	EACH	2



STATION 208+50.98
BUILT 1930 AND
EXTENDED 202_ BY
STATE OF ILLINOIS
LOADING HS-20
STRUCTURE NO. 056-0202

NAME PLATE
See Std. 515001



NAME PLATE LOCATION

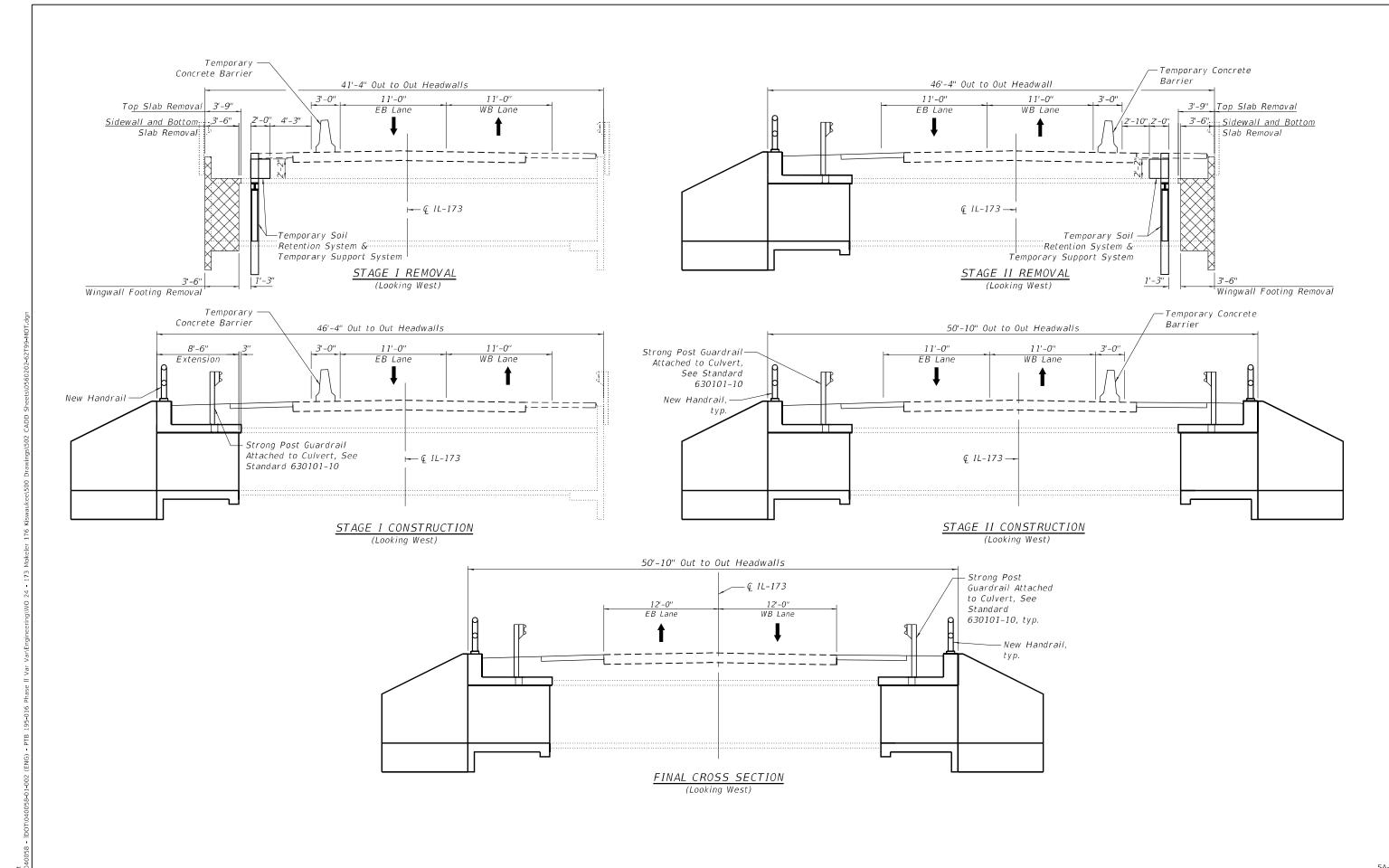
(South End Section, Looking North)

Bowman 911.8, Wiecker Driver, Solte 195 Chicago, Illinois 60066 3714-M-200 www.downen.com

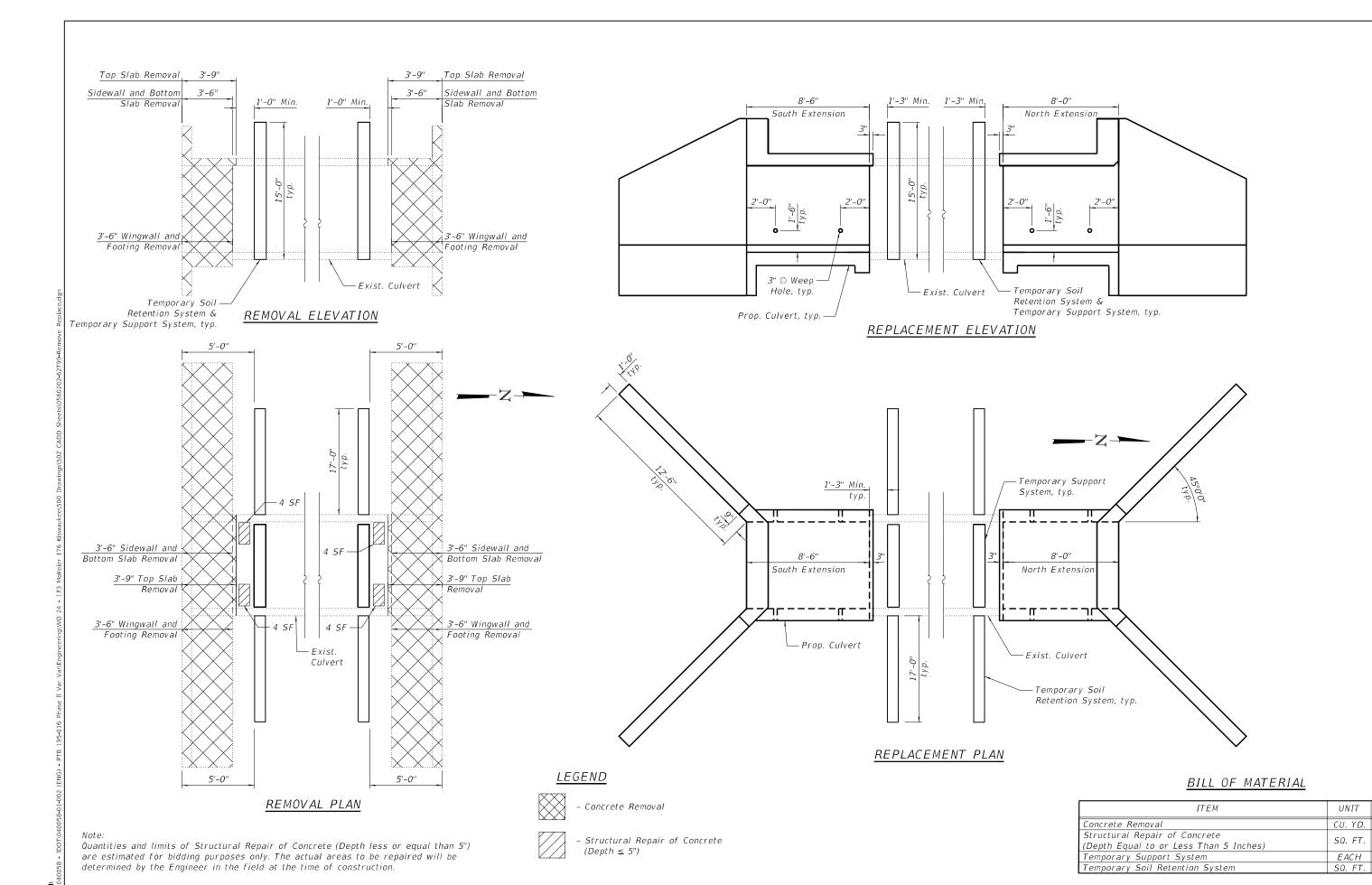
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & BILL OF MATERIAL
STRUCTURE NO. 056-0202

SHEET 2 OF 16 SHEETS



JSER NAME = atiemann DESIGNED - AT REVISED -SECTION COUNTY MAINTENANCE OF TRAFFIC STATE OF ILLINOIS CHECKED - AJN REVISED -Bowman Chicago, Illinois 601 312-614-6360 McHENRY 51 30 FAP 0303 22 HW STRUCTURE NO. 056-0202 **DEPARTMENT OF TRANSPORTATION** DRAWN - PS REVISED -CONTRACT NO. 62T99 PLOT DATE = 03/10/2023 CHECKED - AJN REVISED -SHEET 3 OF 16 SHEETS



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

COUNTY McHENRY 51 31 FAP 0303 22 HW CONTRACT NO. 62T99

UNIT

EACH

SECTION

CULVERT LIMITS OF PARTIAL REMOVAL & REPLACEMENT

STRUCTURE NO. 056-0202

SHEET 4 OF 16 SHEETS

TOTAL

10.9

16.0

598

Bowman Chicago, Illinois 312-614-0360

JSER NAME = atiemann

PLOT DATE = 03/10/2023

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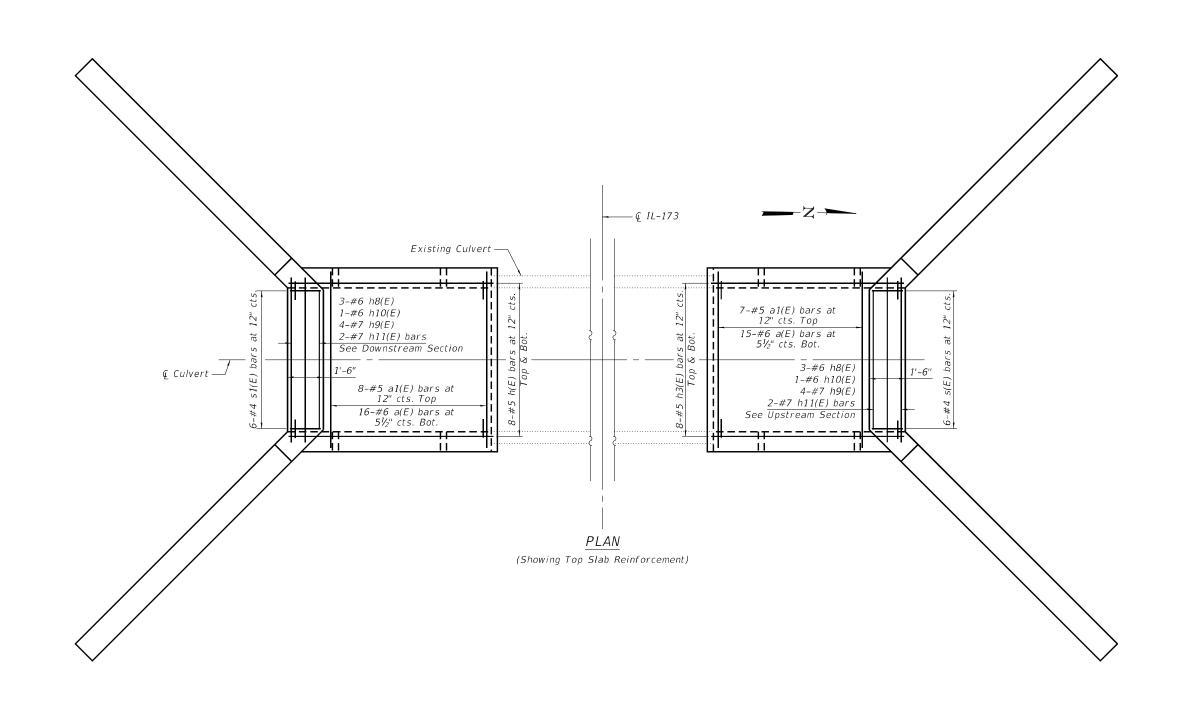
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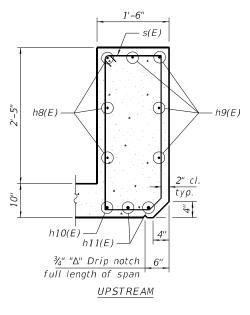
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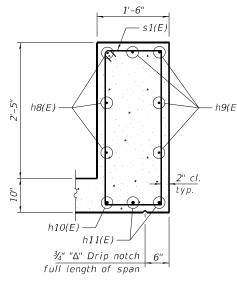
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<u>DOWNSTREAM</u>

SECTION THRU HEADWALL

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n	PLOT SCALE	-		DRAWN	-	PS	REVISED	-
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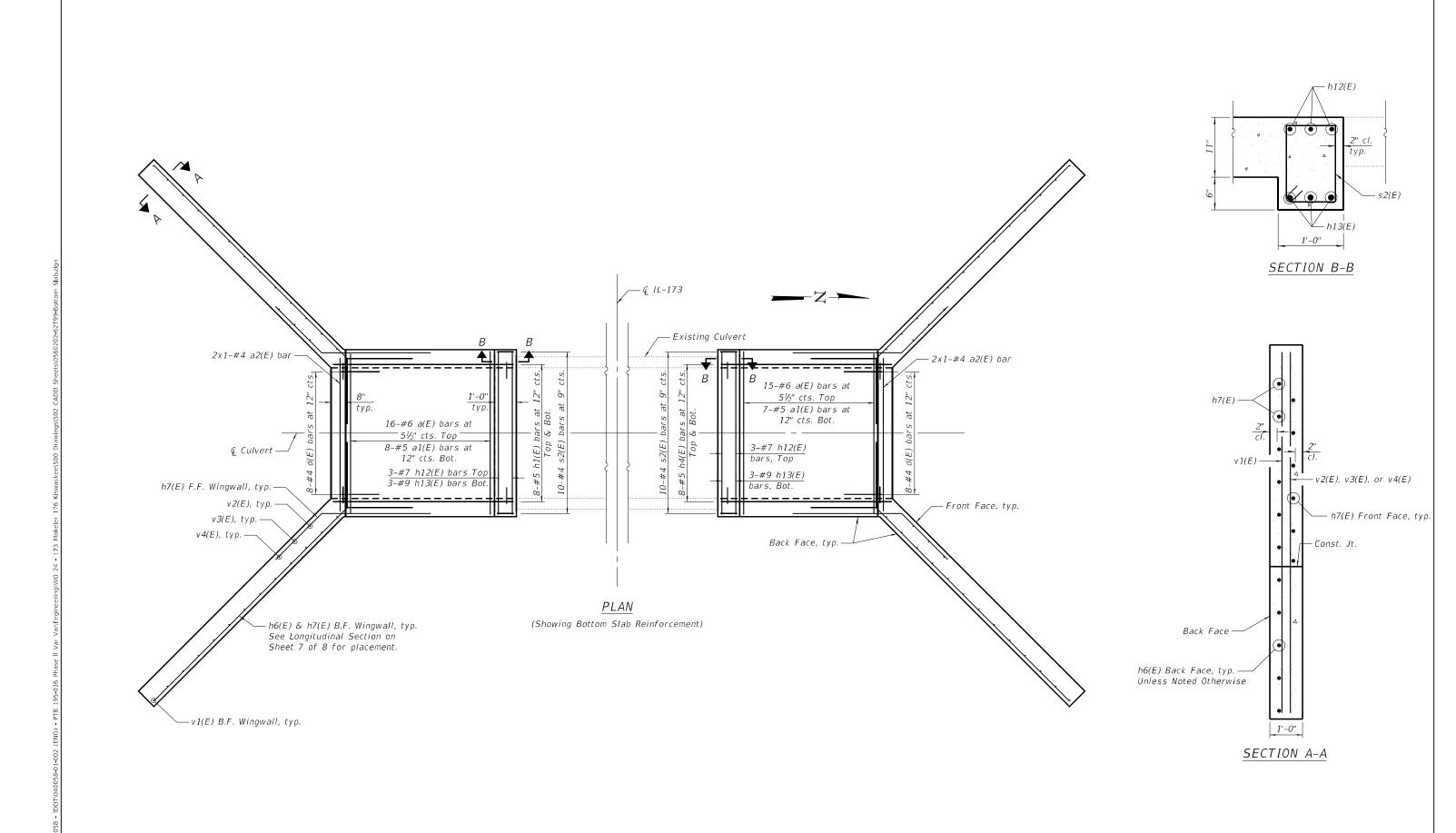
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN OF TOP SLAB

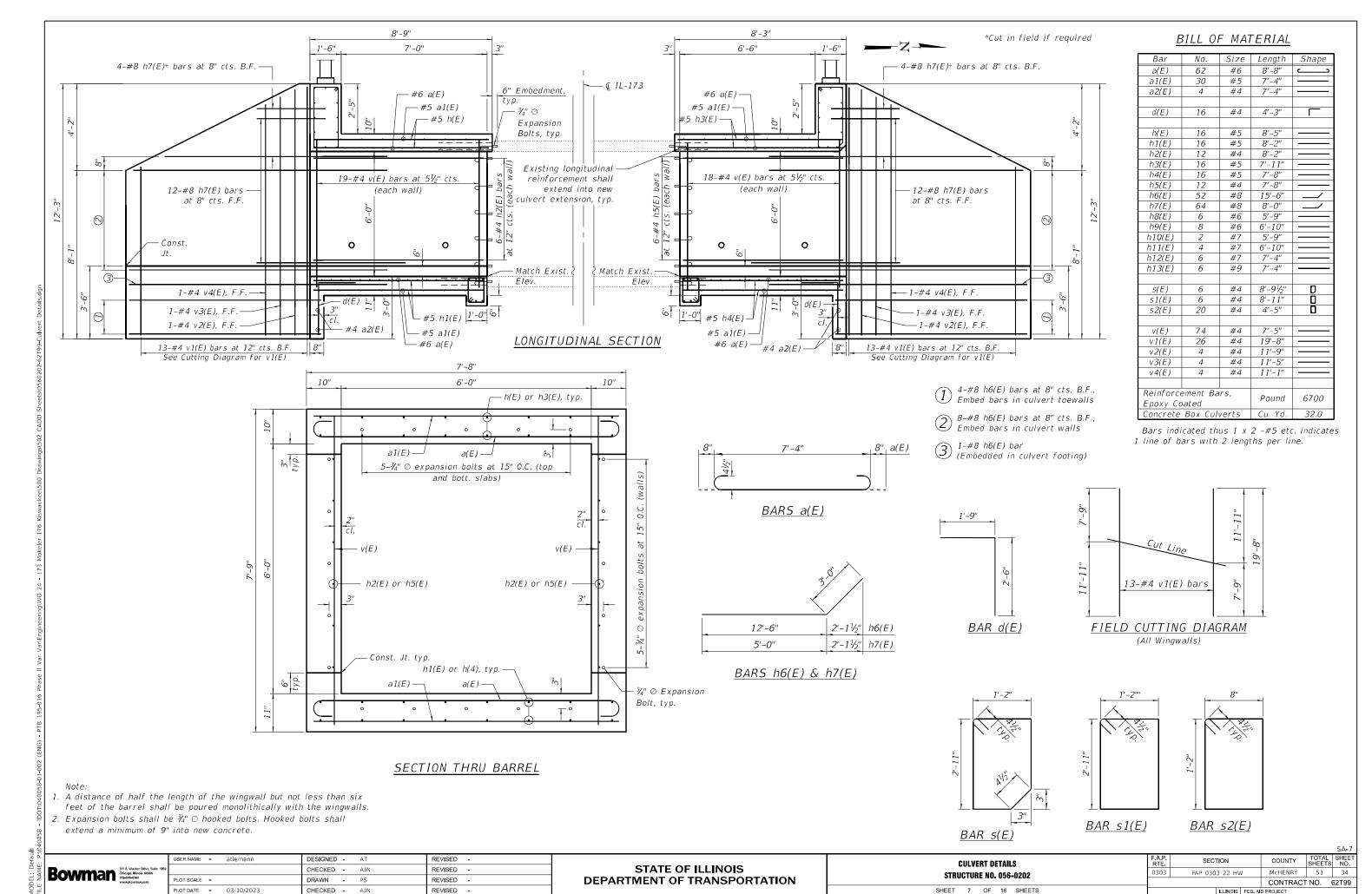
STRUCTURE NO. 056-0202

SHEET 5 OF 16 SHEETS

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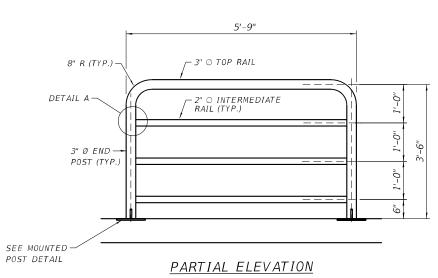


JSER NAME = atiemann DESIGNED - AT REVISED -SECTION PLAN OF BOTTOM SLAB STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION CHECKED - AJN REVISED -Bowman S11 S. Wacker Drive, Chicago, Illinois 608 FAP 0303 22 HW McHENRY STRUCTURE NO. 056-0202 DRAWN - PS REVISED -CONTRACT NO. 62T99 PLOT DATE = 03/10/2023 CHECKED - AJN REVISED -SHEET 6 OF 16 SHEETS



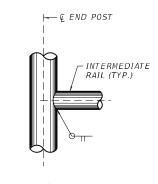
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NORTH & SOUTH END OF CULVERT

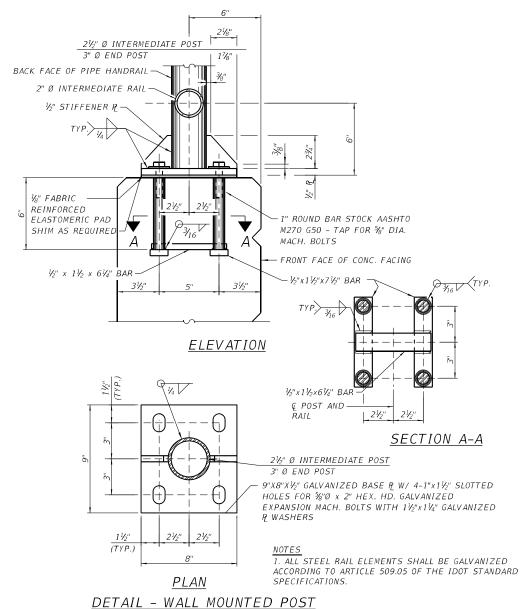


(RAILING SHALL BE ACCORDING TO SECTION 509 OF THE STANDARD SPECIFICATIONS)

BILL OF MATERIAL ITEM UNIT QUANTITY PIPE HANDRAIL FOOT 11.5



DETAIL A



DETAIL WALL MOUNTED TOST

Bowman IT 8, Visitor Date, Suito 1950

PLOOT SCALE = 0.02/10/0

 USER NAME
 =
 atiemann
 DESIGNED
 AT
 REVISED

 CHECKED
 AJN
 REVISED

 PLOT SCALE
 DRAWN
 PS
 REVISED

 PLOT DATE
 03/10/2023
 CHECKED
 AJN
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HANDRAIL DETAILS

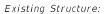
STRUCTURE NO. 056-0202

SHEET 8 OF 16 SHEETS

 F.A.P. RTE.
 SECTION
 COUNTY SHEETS NO.
 SHEETS NO.

 0303
 FAP 0303 22 HW
 McHENRY
 51
 35

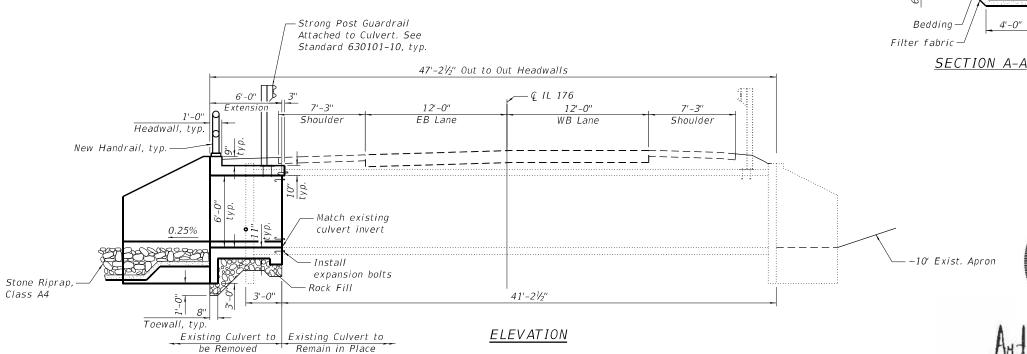
 CONTRACT NO.
 62T99

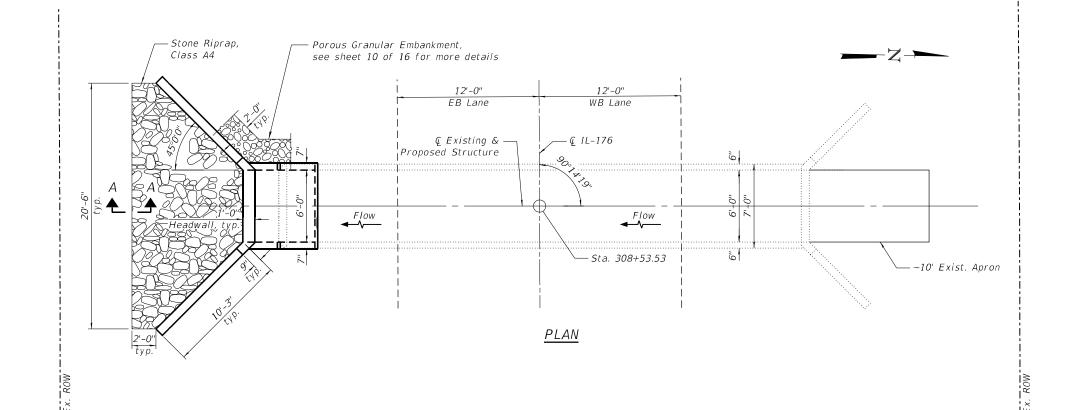


The structure is a single-cell cast-in-place concrete culvert with a 6'x6' cell which was constructed in 1940. The structure carries F.A.P. 0335 / IL-176 over a ditch 1.9 miles east of IL-47. The existing culvert has a length of 47'-1" and is to be partially removed and extended as shown in these plans.

Traffic Control:

Traffic to be maintained using staged construction, see sheet 3 of 8.





INDEX OF SHEETS

- SB-1. General Plan & Elevation
- SB-2. General Notes & Bill of Material
- SB-3. Maintenance of Traffic Details
- SB-4. Culvert Limits of Partial Removal & Replacement
- SB-5. Plan of Top Slab

Stone Riprap

- SB-6. Plan of Bottom Slab
- SB-7. Culvert Details
- SB-8. Handrail Details

SCOPE OF WORK

- 1. Clean Existing Culvert.
- Remove and extend culvert at south end as shown on plans.
- Install new Strong Post Guardrail over the culvert.
- Install new Handrail.
- . Install A4 Riprap.

03/20/2023

81-5894

6. Install Expansion Bolts for culvert extensions.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS-20

Existing and Proposed

DESIGN STRESSES

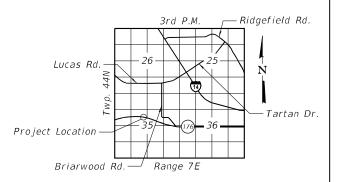
FIELD UNITS (NEW CONSTRUCTION)

f'c = 3,500 psi

fy = 60,000 psi (Reinforcement)

WATERWAY INFORMATION

2-year peak flow = 169 cfs



LOCATION SKETCH

GENERAL PLAN & ELEVATION

IL RTE. 176 OVER DITCH (1.9 MI E OF IL-47)

F.A.P. RTE. 0335/SECTION 22 HW

MCHENRY COUNTY

STATION 308+53.53

STRUCTURE NO. 056-0210

SB-1

Bowman Strate-Gloss www.bowman.ec

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

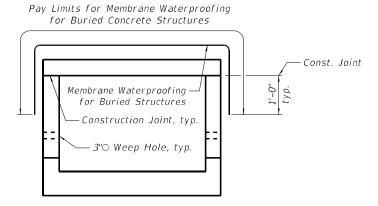
GENERAL PLAN & ELEVATION
STRUCTURE NO. 056-0210

SHEET 9 OF 16 SHEETS

A.P. SECTION COUNTY TOTAL SHEETS NO. 335 FAP 0303 22 HW McHENRY 51 36 CONTRACT NO. 62T99

03/10/2023 3:30:32 PM

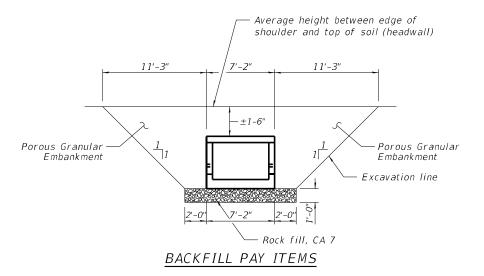
- 1. All exposed concrete edges shall have a $\frac{3}{4}$ " x 45° chamfer, except where shown otherwise. chamfer on vertical edges shall be continued a minimum of one foot within finished ground level.
- Reinforcement bars designated "(E)" shall be epoxy coated.
- Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures, ACI 315.
- Reinforcement bar bending dimensions are out to out.
- Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.
- Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- 7. Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for
- No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
- No concrete cutting shall be permitted until the cutting limits have been outlined by the Contractor and approved by
- 10. During construction, OSHA requires that a minimum of thirteen (13) feet working clearance must be maintained between the booms, arms or other parts that can be raised on the equipment by the contractor and Comed's existing electric transmission lines. Contractor shall coordinate with ComEd at no additional cost to the contract if work area is less than 13 ft.
- 11. Temporary Soil Retention System shall be designed by the Contractor.
- 12. Cleaning, removing and disposing of all debris and obstructions outside the limits of the existing culvert cells is included in the "Box Culvert to be Cleaned" pay item.
- 13. Existing longitudinal reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



MEMBRANE WATERPROOFING DETAIL

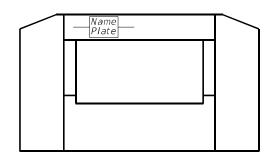
TOTAL BILL OF MATERIAL

PAY ITEM	ITEM	UNIT	TOTAL
20700220	Porous Granular Embankment	CU YD	70
21001000	Geotechnical Fabric for Ground Stabilization	SQ YD	12
28100107	Stone Riprap, Class A4	SQ YD	16
28200200	Filter Fabric	SQ YD	26
50102400	Concrete Removal	CU YD	5.2
50200100	Structure Excavation	CU YD	40
50800205	Reinforcement Bars, Epoxy Coated	POUND	2,360
50901760	Pipe Handrail	F00T	5.5
51500100	Name Plates	EACH	1
52200020	Temporary Soil Retention System	SQ FT	145
54002040	Expansion Bolts 3/4 Inch x 6 Inch	EACH	20
54003000	Concrete Box Culverts	CU YD	12.7
60905305	Box Culverts to be Cleaned	F00T	50
X0900064	Membrane Waterproofing System for Buried Structures	SQ YD	7.6
Z0012754	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	22.0
Z0054400	Rock Fill	CU YD	3.6
Z0073400	Temporary Support System	EACH	1



STATION 308+53.53 BUILT 1940 AND EXTENDED 202 BY STATE OF ILLINOIS LOADING HS-20 TRUCTURE NO. 056-0210

> NAME PLATE See Std. 515001



NAME PLATE LOCATION

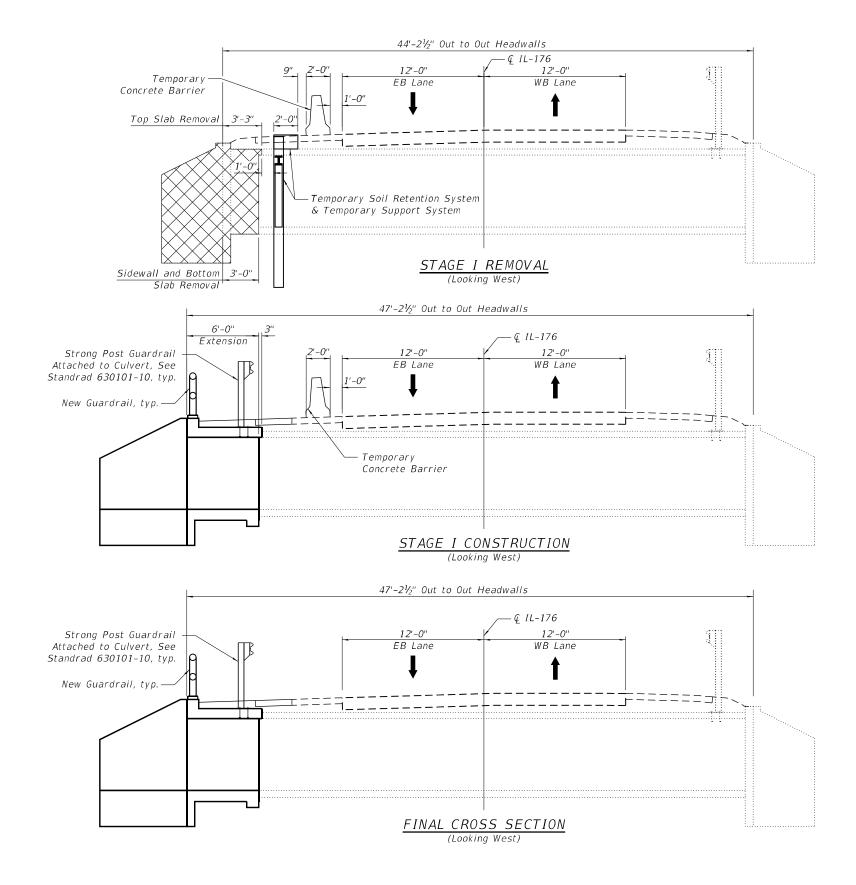
(South End Section, Looking North)

Bowman Chicago, Illinois 6

JSER NAME = atiemann DESIGNED - AT REVISED -CHECKED - AJN REVISED -DRAWN -REVISED PLOT DATE = 05/16/2023 CHECKED - AJN REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **GENERAL NOTES & BILL OF MATERIAL** STRUCTURE NO. 056-0210 SHEET 10 OF 16 SHEETS

SECTION COUNTY 22 HW McHENRY 51 37 CONTRACT NO. 62T99



SECTION COUNTY MAINTENACE OF TRAFFIC DETAILS FAP 0303 22 HW McHENRY 51 38 CONTRACT NO. 62T99 SHEET 11 OF 16 SHEETS

03/10/2023 3:30:34 PM

Bowman 311 S, Wacker Drive, Chicago, Illinois 605 312-614-0360 www,bowman,com

JSER NAME = atiemann

PLOT DATE = 03/10/2023

DESIGNED - AT

DRAWN - AT

CHECKED - AJN

CHECKED - AJN

REVISED -

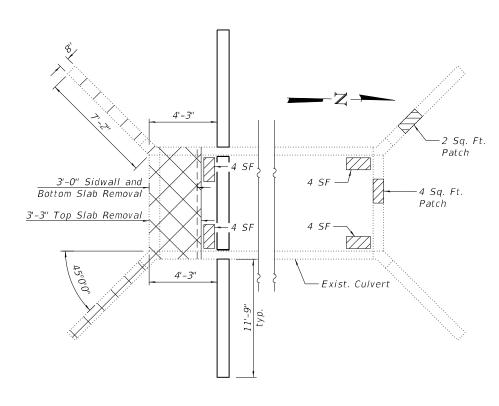
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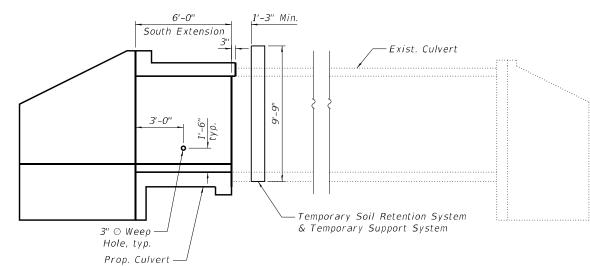
REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

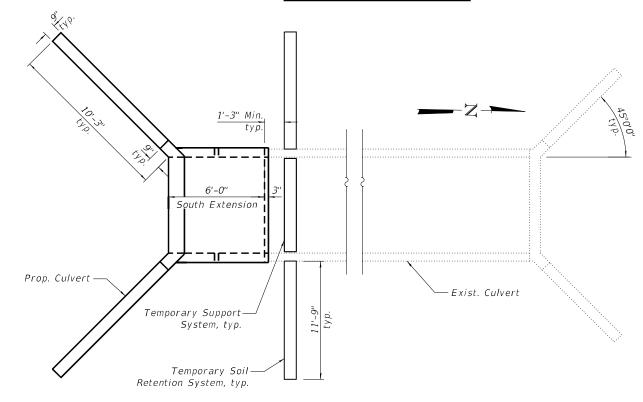
REMOVAL ELEVATION



REMOVAL PLAN



REPLACEMENT ELEVATION



REPLACEMENT PLAN

LEGEND



- Concrete Removal



- Structural Repair of Concrete (Depth ≤ 5")

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	CU. YD.	5.2
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ. FT.	22.0
Temporary Soil Retention System	SQ. FT.	145
Temporary Support System	EACH	1

SB-

Bowman 371.8, Weeker Dir. Chicago, Binois of Track Collings of
Note:

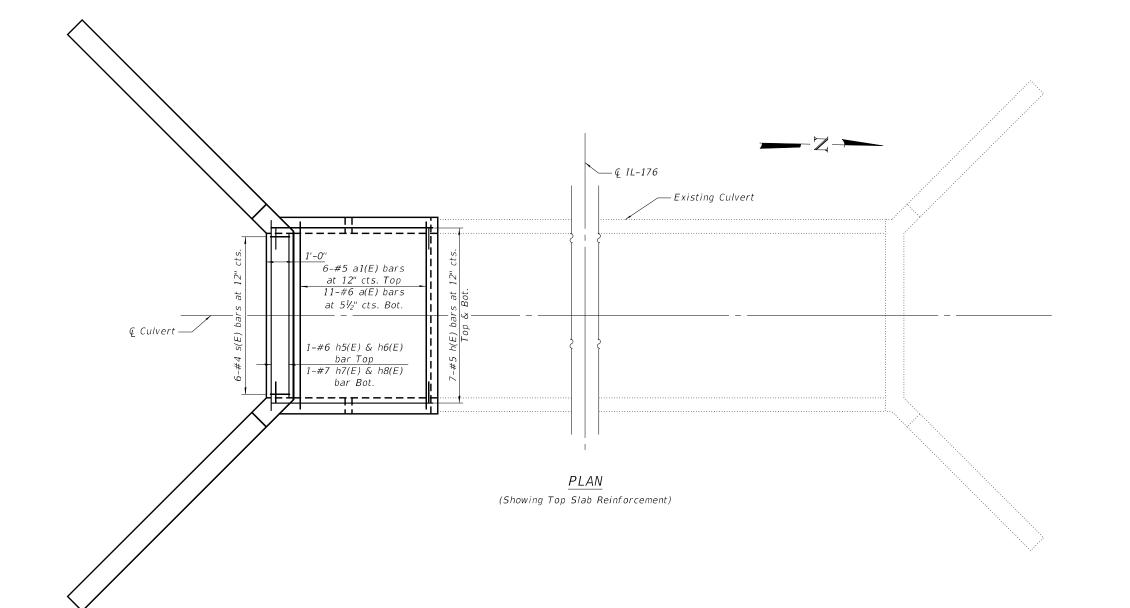
Quantities and limits of Structural Repair of Concrete (Depth less or equal than 5") are estimated for bidding purposes only. The actual areas to be repaired will be

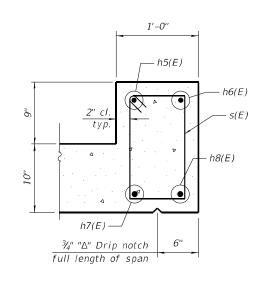
determined by the Engineer in the field at the time of construction.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CULVERT LIMITS OF PARTIAL REMOVAL & REPLACEMENT
STRUCTURE NO. 056-0210

SHEET 12 OF 16 SHEETS





<u>DOWNSTREAM</u>

SECTION THRU HEADWALL

			USER NAME	-
	Rouman	311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606		
2	DOWNIAN	313-614-0360 www.bowman.com	PLOT SCALE	=
			PLOT DATE	=

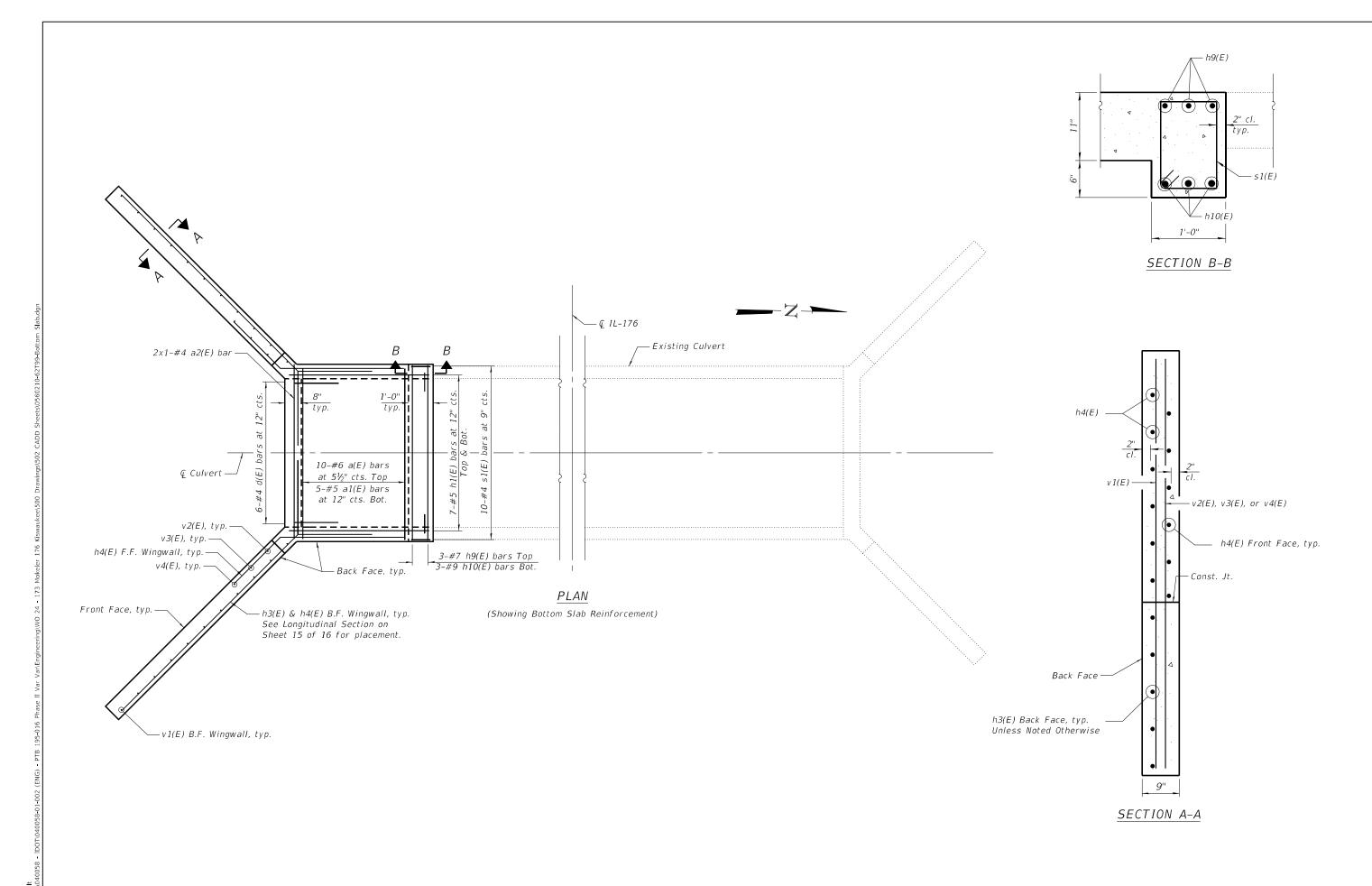
	USER NAME = atiemann	DESIGNED - AT	REVISED -	
rive, Suite 1950 60606		CHECKED - AJN	REVISED -	
iom	PLOT SCALE =	DRAWN - AT	REVISED -	D
	PLOT DATE = 03/10/2023	CHECKED - AJN	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN OF TOP SLAB STRUCTURE NO. 056-0210 SHEET 13 OF 16 SHEETS

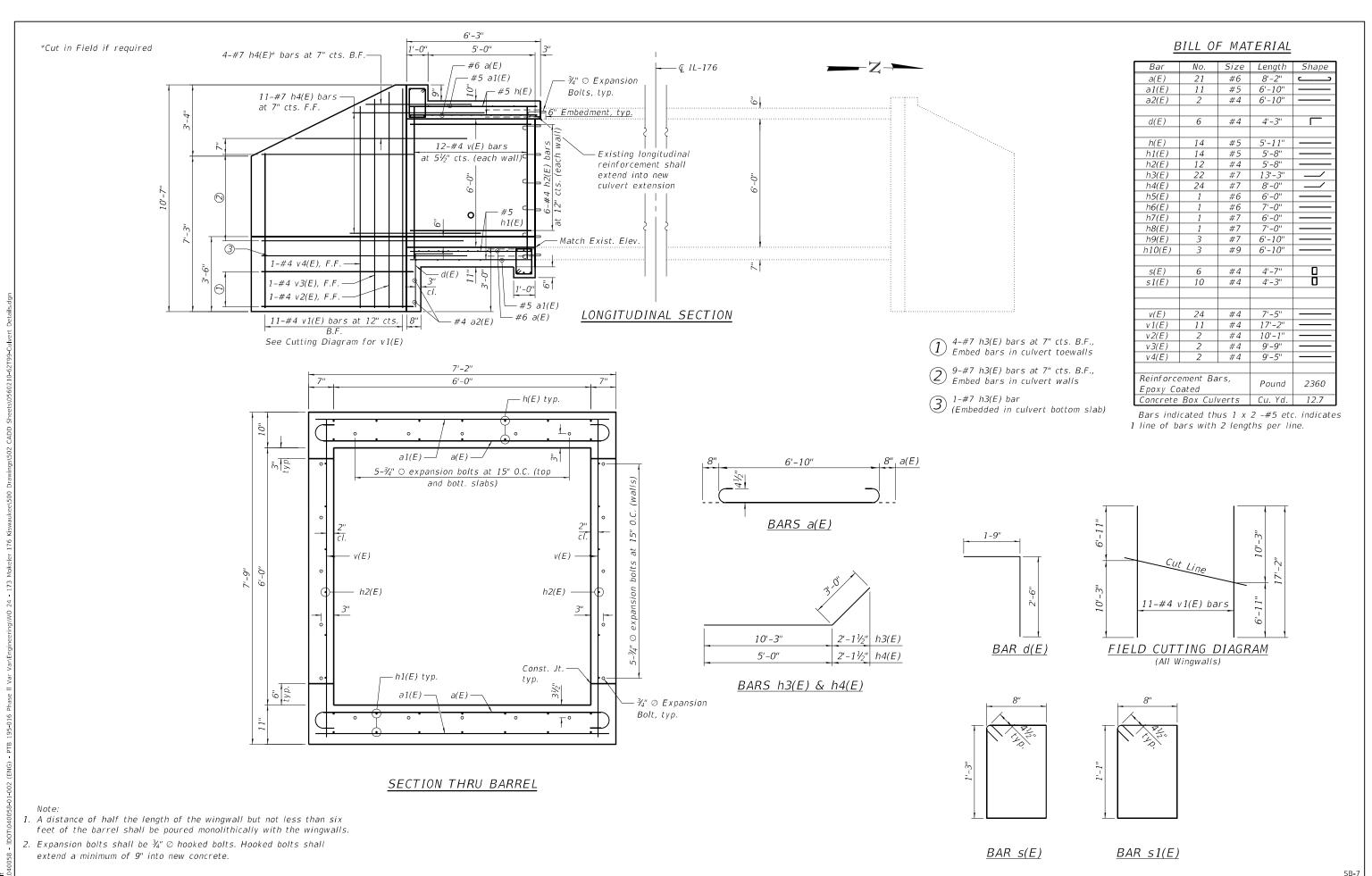
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McHENRY 51 40 SECTION FAP 0303 22 HW



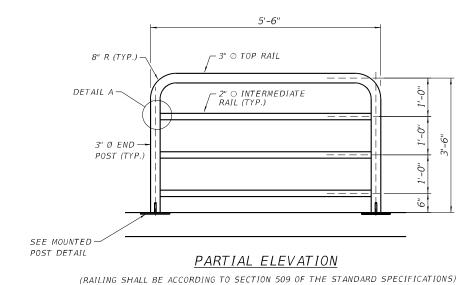
COUNTY TOTAL SHEETS NO.

McHENRY 51 41 JSER NAME = atiemann DESIGNED - AT REVISED -SECTION PLAN OF BOTTOM SLAB STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION CHECKED - AJN REVISED -Bowman 311 S, Wacker Drive, Chicago, Illinois 605 312-614-0360 www,bowman,com FAP 0303 22 HW STRUCTURE NO. 056-0210 DRAWN - AT REVISED -CONTRACT NO. 62T99 PLOT DATE = 03/10/2023 CHECKED - AJN REVISED -SHEET 14 OF 16 SHEETS



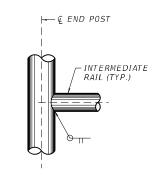
JSER NAME = atiemann DESIGNED - AT REVISED -SECTION COUNTY **CULVERT DETAILS** STATE OF ILLINOIS CHECKED - AJN REVISED -Bowman Chicago, Illinois (22 HW McHENRY 51 42 STRUCTURE NO. 056-0210 DRAWN - AT REVISED -**DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62T99 SHEET 15 OF 16 SHEETS PLOT DATE = 05/16/2023 CHECKED - AJN REVISED -ILLINOIS FED. AID PROJECT



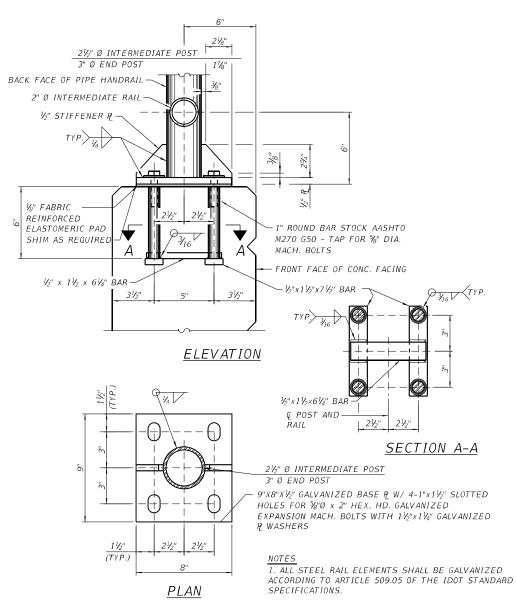


BILL OF MATERIAL

ITEM	UNIT	QUANTITY
PIPE HANDRAIL	FOOT	5.5



DETAIL A



DETAIL - WALL MOUNTED POST

SB-

Bowman 31 S. Wicker Drive, S. Chicago, Illinois 60066 STA-874-C0809 www.bowmer.com

 USER NAME
 =
 atiemann
 DESIGNED
 AT
 REVISED

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 PLOT SCALE
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 PLOT DATE
 03/10/2023
 CHECKED
 AJN
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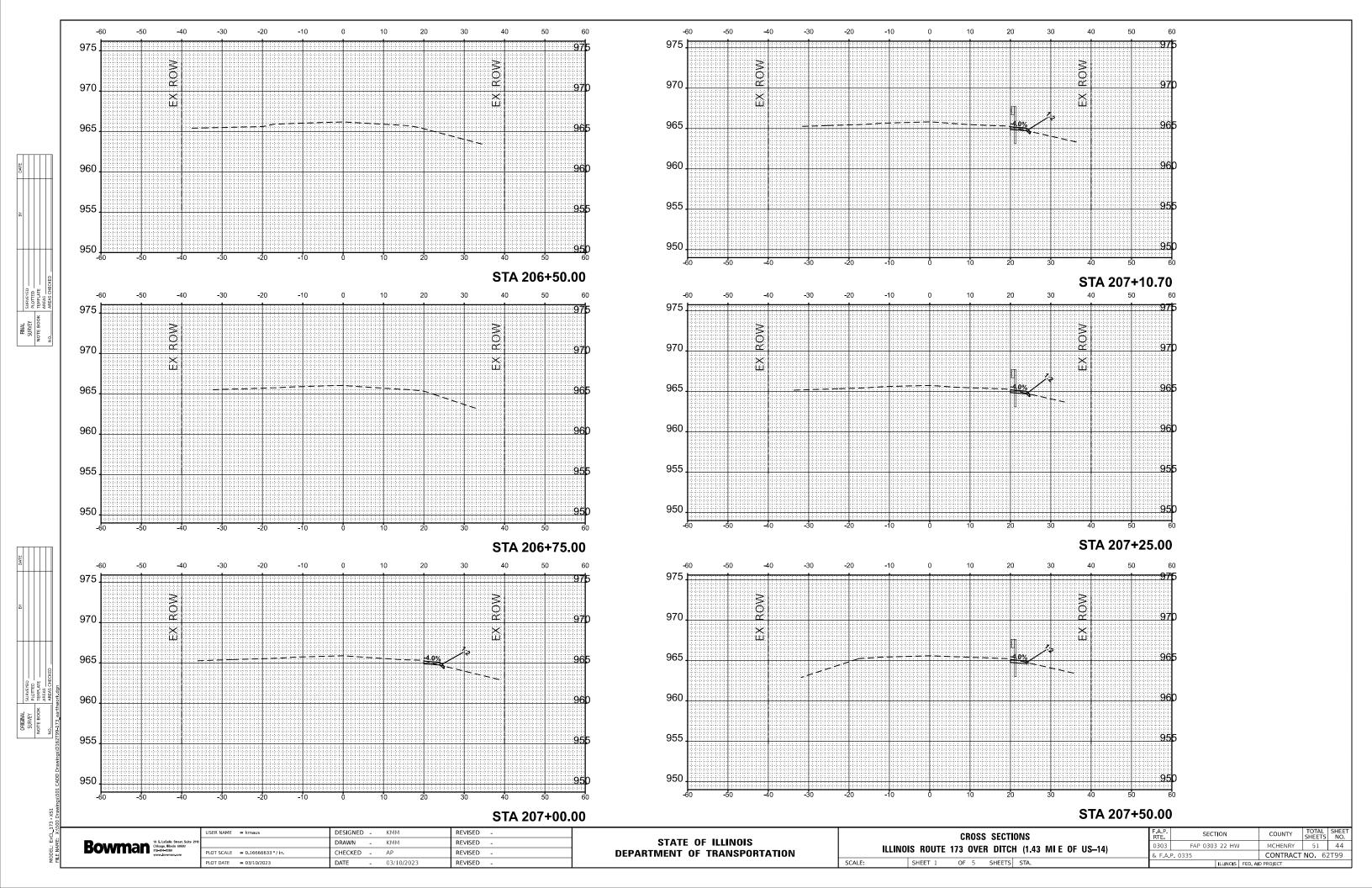
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

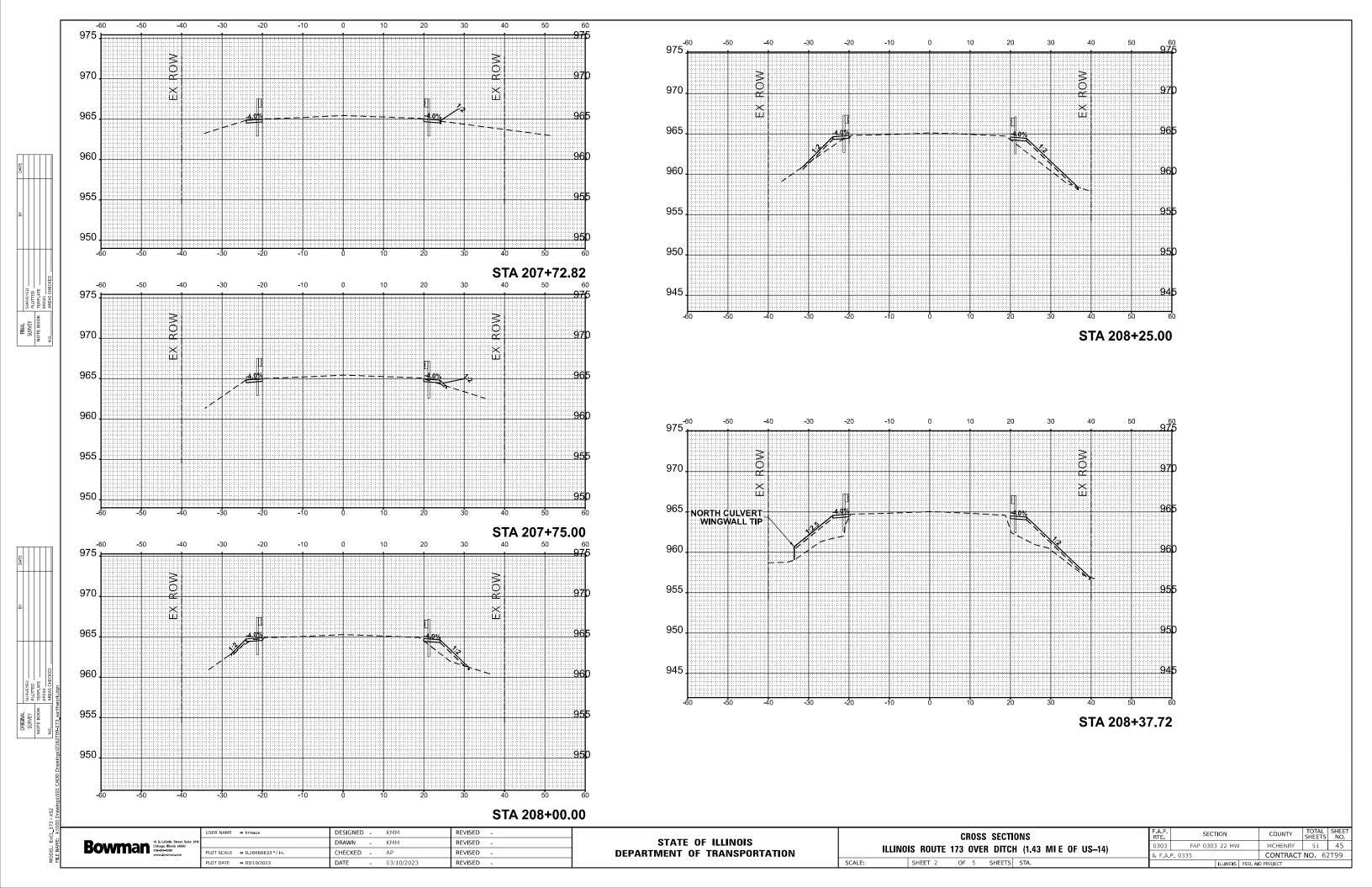
HANDRAIL DETAILS
STRUCTURE NO. 056-0210
SHEET 16 OF 16 SHEETS

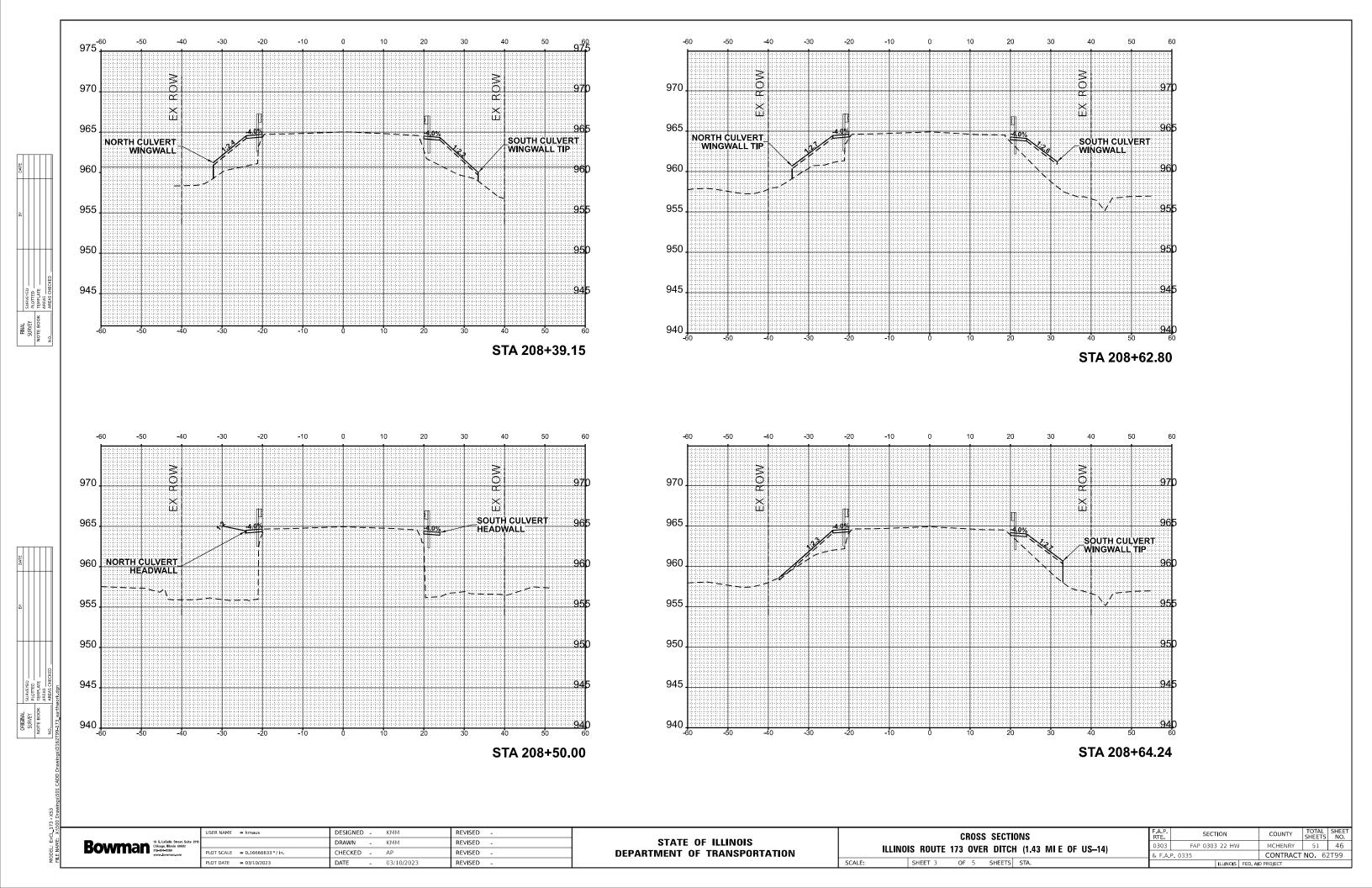
 A.P. TE.
 SECTION
 COUNTY
 TOTAL SHEETS NO.
 SHEETS NO.

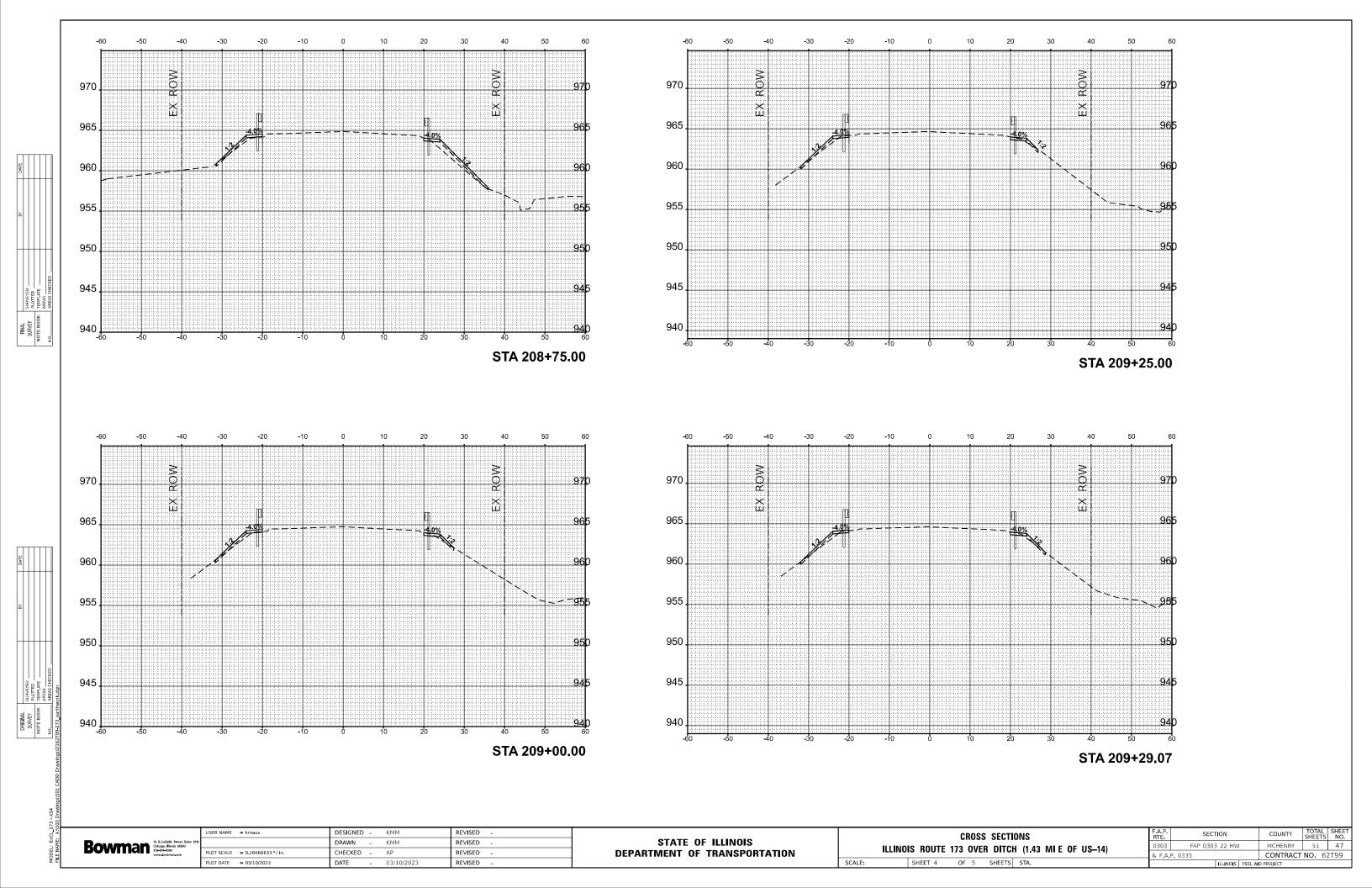
 335
 FAP 0303 22 HW
 McHENRY
 51
 43

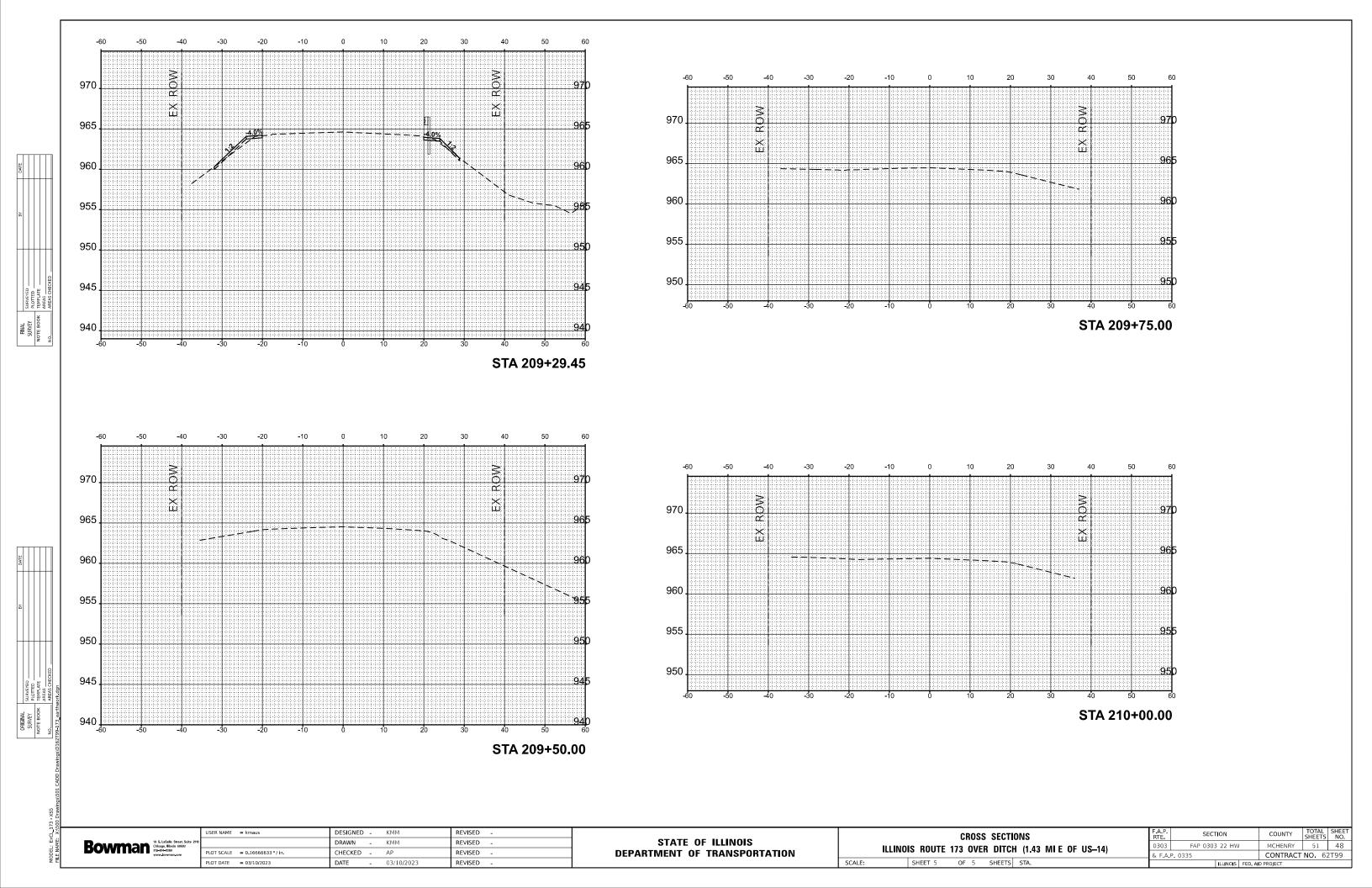
 CONTRACT NO. 62T99

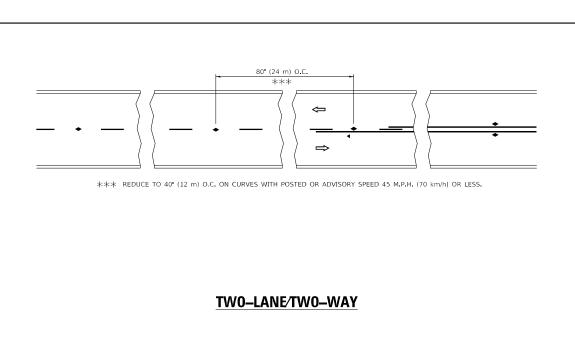


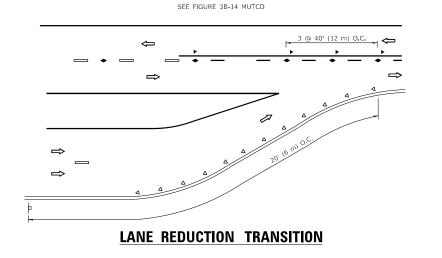


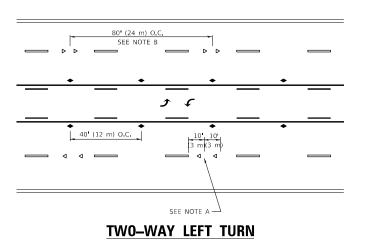


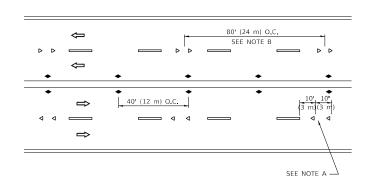


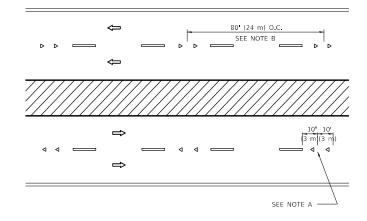






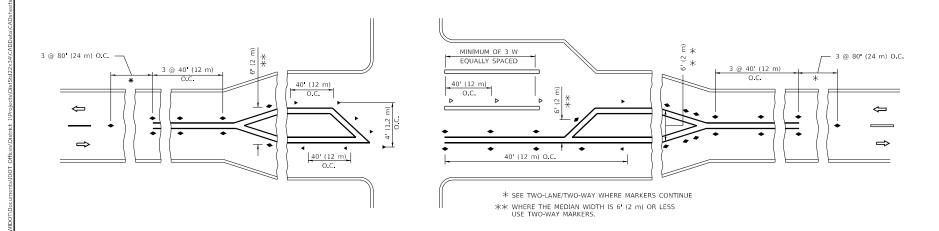






MULTI-LANE/UNDIVIDED

MULTI-LANE/DIVIDED



TURN LANES

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
- 4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

ONE-WAY AMBER MARKER

TWO-WAY AMBER MARKER

ONE-WAY CRYSTAL MARKER (W/O)

YELLOW STRIPE

WHITE STRIPE

LANE MARKER NOTES

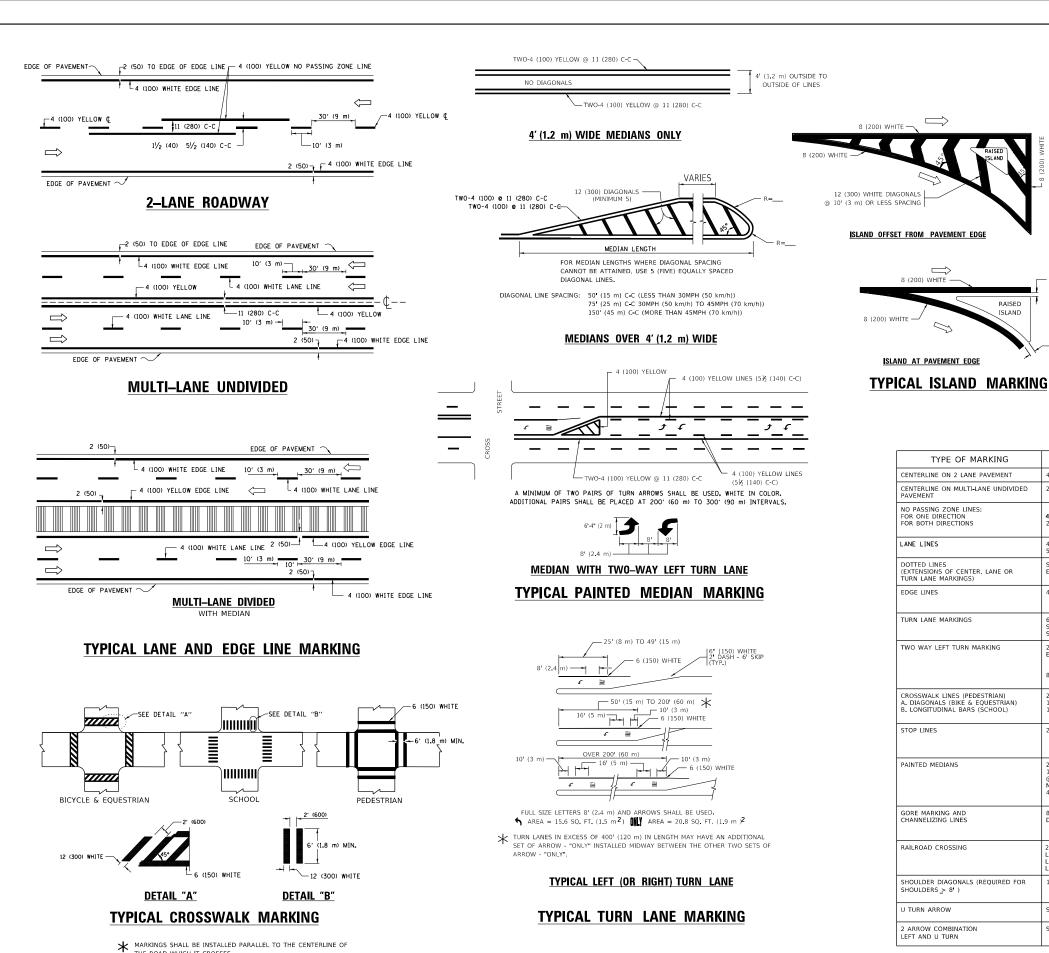
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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

JSER NAME = footemj DESIGNED -REVISED - T. RAMMACHER 03-12-99 TYPICAL APPLICATIONS STATE OF ILLINOIS DRAWN REVISED - T. RAMMACHER 01-06-00 51 49 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) CHECKED REVISED - C. JUCIUS 09-09-09 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. SHEET 1 OF 1 SHEETS STA. REVISED - C. JUCIUS 07-01-13 PLOT DATE = 3/4/2019 DATE



D(FT) SPEED LIMIT 580 45 665 50 750 55 COMBINATION LEFT AND U-TURN 5'-4" (1620) 32 R (810) LANE REDUCTION TRANSITION * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING WIDTH OF LINE PATTERN SPACING / REMARKS COLOR CENTERLINE ON 2 LANE PAVEMENT SKIP-DASH YELLOW 10' (3 m) LINE WITH 30' (9 m) SPACE SOLID YELLOW 11 (280) C-C NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS YELLOW YELLOW **4 (100)** 2 @ 4 (100) OMIT SKIP-DASH CENTERLINE BETWEEN LANE LINES SKIP-DASH 10' (3 m) LINE WITH 30' (9 m) SPACE 4 (100) 5 (125) ON FREEWAYS SKIP-DASH DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) SAME AS LINE BEING EXTENDED SKIP-DASH SAME AS LINE BEING EXTENDED 2 (600) LINE WITH 6 (1.8 m) SPACE EDGE LINES 4 (100) SOLID OUTLINE MEDIANS IN YELLOW YELLOW-LEFT WHITE-RIGHT 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m) SEE TYPICAL TURN LANE MARKING DETAIL TURN LANE MARKINGS 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL TWO WAY LEFT TURN MARKING YELLOW 2 @ 4 (100) EACH DIRECTION 8 (2.4m) LEFT ARROW 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) NOT LESS THAN 6 (1.8 m) APART 2 (600) APART . LONGITUDINAL BARS (SCHOOL) SOLID WHITE ' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. PLACE 4 (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE PAGESTID IE STOP LINES 24 (600) SOLID WHITE 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° PAINTED MEDIANS SOLID 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h)) 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" RAILROAD CROSSING SOLID WHITE SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m PEACH "X"=54.0 SQ. FT. (5.0 m)2 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) SHOULDER DIAGONALS (REQUIRED FOR 12 (300) @ 45° SOLID WHITE - RIGHT YELLOW - LEFT SHOULDERS > 8') U TURN ARROW SEE DETAIL SOLID WHITE 2 ARROW COMBINATION LEFT AND U TURN SEE DETAIL SOLID 30.4 SF

U-TURN

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

— 2 (50)

2 (50)

RAISED

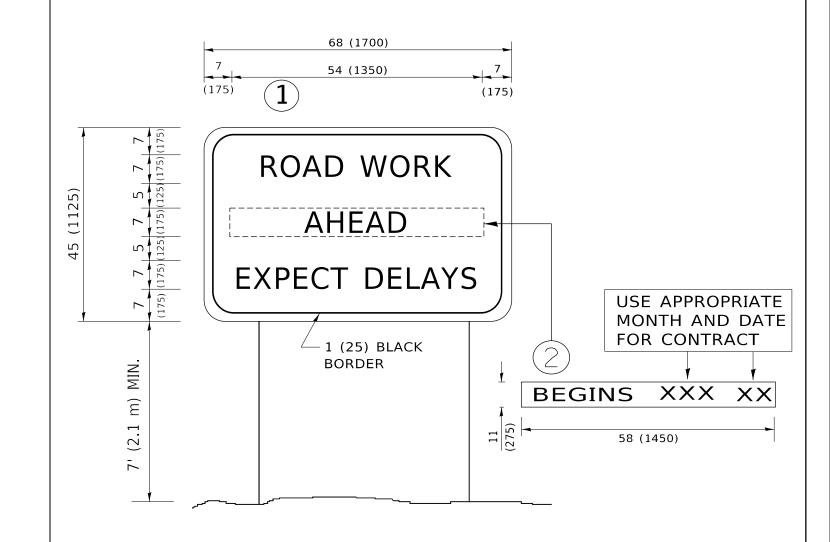
ISLAND

All dimensions are in inches (millimeters unless otherwise shown.

USER NAME = footemj	DESIGNED	-	EVERS	REVISED	-	C. JUCIUS 09-09-09
	DRAWN	-		REVISED	-	C. JUCIUS 07-01-13
PLOT SCALE = 50.0000 / in.	CHECKED	-		REVISED	-	C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE	-	03-19-90	REVISED	-	C. JUCIUS 04-12-16

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			DIST	RICT O	NE		F.A. RTE	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
						51	50					
TYPICAL PAVEMENT MARKINGS	TC-13			CONTRACT								
CHEET	1	OF	7	CHIEFTE	CTA	TO CTA						



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN 1) WITH INSTALLED PANEL 2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL(2)SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97		Al	RTERIAL ROA	AD		F.A. RTE.	SECTION	COUNTY	TOTAL :	SHEET NO.
	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN							51	51
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEI AIITIVIENT OF THANGS OF A TOO	INFU	UKIMATIUN	SIGN			TC-22	CONTRAC	г NO.	
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET 1 OF	1 SHEETS	STA. TO ST	A.		ILLINOIS I	ED. AID PROJECT		