

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	46	1
		ILLINOIS	CONTRACT NO. 62H25	

* 45 + 1 = 46 TOTAL SHEETS

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

PROJECT LOCATED IN THE CITY OF MARENGO

TRAFFIC DATA

IL-23
ADT: 6,400
POSTED SPEED: 35 MPH
DESIGN SPEED: 35 MPH
DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL

**PROPOSED
HIGHWAY PLANS**

FAP 324 (IL 23 / STATE STREET)
(0.1 Mile N of IL 176))
SECTION 2018-091-CR
PROJECT NHPP-Z19Z (787)
CULVERT REPLACEMENT
MCHENRY COUNTY

C-91-218-19



APPLY TO SHEETS:
1-8, 12, 16-28, 39-45

APPLY TO SHEETS:
29-38



Hugh E. Regan

Luke C. Martin

HUGH E. REGAN
HNTB
NO.: 062072743
DATE SIGNED: 8/1/2023
EXP. DATE: 11/30/2023

LUKE C. MARTIN
GKE, LLC
NO.: 081007429
DATE SIGNED: 8/1/2023
EXP. DATE: 11/30/2024

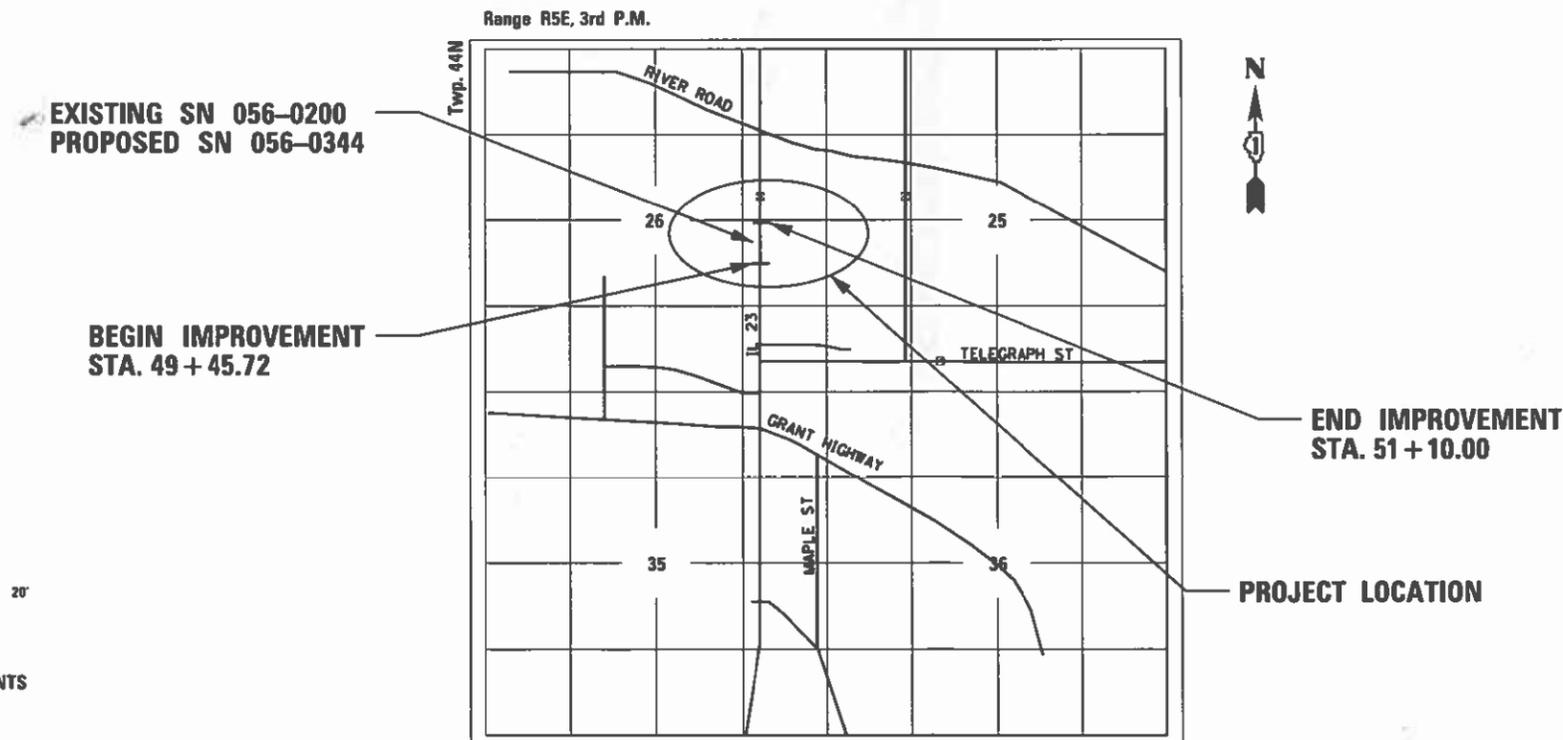


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: PRAVEEN KAINI (847) 705-4237
PROJECT MANAGER: JEAN ALAIN MIDY (847) 221-3056

CONTRACT NO. 62H25



PROJECT LENGTH

GROSS LENGTH = 164 FT. = 0.031 MILE
NET LENGTH = 164 FT. = 0.031 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 17, 2023
Opal Baran REGIONAL ENGINEER
October 13, 2023
Steph M. Smith ENGINEER OF DESIGN AND ENVIRONMENT
October 13, 2023
Steph M. Smith DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT (800) 892-0123 OR 811 TO DETERMINE WHICH UTILITIES ARE WITHIN THE AREA. 48 HOUR NOTIFICATION IS REQUIRED.
2. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT.
3. 10' TRANSITIONS SHALL BE USED FOR PROPOSED CURB AND GUTTER EXISTING CURB AND GUTTERS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.
6. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR (KALPANA KANNAN-HOSADURAG) AT (KALPANA.KANNAN-HOSADURAG@ILLINOIS.GOV) A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
7. SAWCUTTING OF PAVEMENT, SIDEWALK, AND CURB & GUTTER SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAWCUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
8. THE CONTRACTOR SHALL PROTECT ALL TREES AND ROOT SYSTEMS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS.
9. THE CONTRACTOR SHALL PROTECT EXISTING AND NEW UTILITIES AND SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY IN ORDER TO PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
10. THE CONTRACTOR SHALL TAKE CARE IN 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.
11. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION. ANY COST ASSOCIATED WITH OBTAINING THESE PERMITS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR THE ITEMS BEING INSTALLED.
12. POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
14. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
15. BARRICADES: TYPE I, TYPE II AND TYPE III BARRICADES SHALL BE WEIGHTED IN A MANNER APPROVED BY THE MANUFACTURER SO THAT THEY ARE NOT MOVED BY TRAFFIC.
16. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
17. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
18. ALL STORM SEWERS, PIPE CULVERTS, CATCH BASINS, MANHOLES, INLETS AND SIMILAR STRUCTURES NEWLY CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS, OR FOREIGN MATTER OR ANY KIND AND SHALL BE FREE FROM SUCH ACCUMULATIONS AT THE TIME OF FINAL INSPECTIONS. THE COST OF ANY CLEARING REQUIRED TO COMPLY WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
19. THE CONTRACTOR SHALL VERIFY EXISTING OUTLET STRUCTURE LOCATIONS AND INVERTS PRIOR TO STARTING UPSTREAM STORM SEWER CONNECTION AND CONSTRUCTION.
20. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
21. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES AND ROOT SYSTEMS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS.
22. 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.
23. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.
24. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
25. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR1.
26. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL SECTIONS OF THE ILLINOIS SPRAY LAW, INCLUDING, LICENSING. CONTRACTOR PERSONNEL APPLYING HERBICIDES SHALL HAVE A VALID PESTICIDE APPLICATOR LICENSE ISSUED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE. THE LICENSED PESTICIDE APPLICATOR SHALL SUBMIT THEIR CURRENT LICENSE TO THE ENGINEER. THE LICENSED PESTICIDE APPLICATOR SHALL BE QUALIFIED AT A MINIMUM IN RIGHT-OF-WAY AND AQUATICS. THE LICENSED APPLICATOR SHALL WORK ON-SITE.
27. THE CONTRACTOR SHALL PLACE A 6 MIL POLYETHYLENE BOND BREAKER BETWEEN ANY PROPOSED WORK REQUIRING CONCRETE TO BE PLACED DIRECTLY ON TOP OF THE CULVERT. THE COST OF THE BOND BREAKER SHALL BE INCIDENTAL TO THE ITEM BEING PLACED ON TOP OF THE CULVERT.
28. THE CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO ENSURE THE SAFETY OF PEDESTRIANS FROM OPEN EXCAVATION ADJACENT TO SIDEWALKS AND PEDESTRIAN INGRESS/EGRESS AREAS AS DIRECTED BY ENGINEER.

INDEX OF SHEETS

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IDOT STANDARD DRAWINGS

STANDARD NUMBERS	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
420701-03	WELDED WIRE REINFORCEMENT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442101-09	CLASS B PATCHES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (2100 mm) DIA.
602402-03	PRECAST MANHOLE TYPE A 5" DIAMETER
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604036-03	GRATE, TYPE 8
606001-08	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

DISTRICT 1 STANDARD DRAWINGS

STANDARD NUMBERS	DESCRIPTION
BD-01	DRIVEWAY DETAIL --DISTANCE BETWEEN ROW AND FACE OF CURB & EDGE OF SHOULDER GREATER OR EQUAL TO 15'
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-33	HMA TAPER AT EDGE OF P.C.C. PAVEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS.
TC-13	TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN

COMMITMENTS

1. TREES THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH OCTOBER 31ST OF ANY GIVEN YEAR.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
INDEX OF SHEETS AND STANDARD DRAWINGS**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	2
			CONTRACT NO. 62H25	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	100% LOCAL
				CULVERT 0004 URBAN	CULVERT 0004 URBAN
20101100	TREE TRUNK PROTECTION	EACH	1	1	
20101200	TREE ROOT PRUNING	EACH	1	1	
20200100	EARTH EXCAVATION	CU YD	130	130	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3	3	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	58	58	
20800150	TRENCH BACKFILL	CU YD	62	62	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	22	22	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	94	94	
25000100	SEEDING, CLASS 1	ACRE	0.25	0.25	
25000110	SEEDING, CLASS 1A	ACRE	0.25	0.25	
25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
25100630	EROSION CONTROL BLANKET	SQ YD	494	494	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	55	55	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75	75	
28000305	TEMPORARY DITCH CHECKS	FOOT	20	20	
28000400	PERIMETER EROSION BARRIER	FOOT	359	359	
28000510	INLET FILTERS	EACH	5	5	
28100107	STONE RIPRAP, CLASS A4	SQ YD	65	65	
28200200	FILTER FABRIC	SQ YD	65	65	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	14	14	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	265	265	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	154	154	
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	3	3	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	319	319	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	146	146	
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	42	42	
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	59	59	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	100% LOCAL
				CULVERT 0004 URBAN	CULVERT 0004 URBAN
42001300	PROTECTIVE COAT	SQ YD	227	227	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	48	48	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1000	1,000	
42400800	DETECTABLE WARNINGS	SQ FT	10	10	
44000100	PAVEMENT REMOVAL	SQ YD	441	441	
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	19	19	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	46	46	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	190	190	
44000600	SIDEWALK REMOVAL	SQ FT	1345	1345	
44200962	CLASS B PATCHES, TYPE III, 9 INCH	SQ YD	18	18	
44201298	DOWEL BARS 1 1/4"	EACH	10	10	
44213200	SAW CUTS	FOOT	25	25	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	58	58	
50300225	CONCRETE STRUCTURES	CU YD	16.2	16.2	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2.2	2.2	
50300300	PROTECTIVE COAT	SQ YD	370	370	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	72.8	72.8	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	59,360	59360	
50901720	BICYCLE RAILING	FOOT	62	62	
51500100	NAME PLATES	EACH	1	1	
54003000	CONCRETE BOX CULVERTS	CU YD	139.6	139.6	
54261318	CONCRETE END SECTION, STANDARD 542001, 18", 1:3	EACH	1	1	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	23	23	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	99	99	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	40	40	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	37	37	
550B0090	STORM SEWERS, CLASS B, TYPE 1 18"	FOOT	5	5	
550B0160	STORM SEWERS, CLASS B, TYPE 1 36"	FOOT	55	55	
55100500	STORM SEWER REMOVAL 12"	FOOT	23	23	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	100% LOCAL
				CULVERT 0004 URBAN	CULVERT 0004 URBAN
55100900	STORM SEWER REMOVAL 18"	FOOT	82	82	
55101200	STORM SEWER REMOVAL 24"	FOOT	40	40	
55101400	STORM SEWER REMOVAL 30"	FOOT	35	35	
56100700	WATER MAIN 8"	FOOT	95		95
56109400	DUCTILE IRON WATER MAIN FITTINGS 8" 11.25 DEGREE BEND	EACH	1		1
56109408	DUCTILE IRON WATER MAIN FITTINGS 8" 22.50 DEGREE BEND	EACH	5		5
56109420	DUCTILE IRON WATER MAIN FITTINGS 8" 45.00 DEGREE BEND	EACH	2		2
56100015	DUCTILE IRON WATER MAIN TEE, 8" X 6"	EACH	1		1
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	136	136	
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	1	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	4	4	
60600605	CONCRETE CURB, TYPE B	FOOT	26	26	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	204	204	
60801018	FLAP GATE 18"	EACH	1	1	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	270	270	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	25	25	
67100100	MOBILIZATION	L SUM	1	1	
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	30	30	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	58	58	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	15	15	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	2	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	4	
X0322102	TEMPORARY SIDEWALK RAMP	EACH	4	4	
X0322786	SANITARY SEWER TESTING	L SUM	1		1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	100% LOCAL
				CULVERT 0004	CULVERT 0004
				URBAN	URBAN
X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	1	1	
X0324970	SANITARY SEWER PIPE PROTECTION	EACH	1		1
X0327555	TEMPORARY WATER SERVICE CONNECTION, (2" DIA. OR LESS)	EACH	1		1
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	1	1	
X0900080	TEMPORARY BOARDWALK	SQ FT	268	268	
X1200288	SANITARY SEWER BYPASS PUMPING	L SUM	1		1
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2	
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	14	14	
X5021507	DEWATERING	L SUM	1		1
X5427602	REMOVE EXISTING FLARED END SECTION	EACH	2	2	
X5510312	SANITARY SEWER REMOVAL 12"	FOOT	69		69
X5610020	WATER MAIN ENCASEMENT	FOOT	40		40
X5610708	WATER MAIN REMOVAL, 8"	FOOT	93		93
X6024132	REMOVE EXISTING VALVE AND VAULT	EACH	1		1
X6026055	SANITARY MANHOLE (SPECIAL)	EACH	4		4
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X8030108	LOCATING UNDERGROUND UTILITIES	L SUM	1		1
Z0007430	TEMPORARY SIDEWALK	SQ FT	492	492	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0022800	FENCE REMOVAL	FOOT	49	49	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103	
Z0045806	PRESSURE VALVE INSERT, 6 INCH	EACH	1		1
Z0045800	PRESSURE VALVE INSERT, 8 INCH	EACH	1		1
Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT	140	140	
Z0057100	SANITARY SEWER 12"	FOOT	118		118
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	4	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	6
			CONTRACT NO. 62H25	
ILLINOIS FED. AID PROJECT				

PAY ITEM NUMBER	PAY ITEM NAME										UNIT OF MEASURE
20200100	EARTH EXCAVATION										CU YD
LOCATION	STATION	STATION	OFFSET	Ex Condition Depth (ft)	Proposed Depth (ft)	Area of constant depth (SQ FT)	Volume of Constant Depth (CU FT)	Average Height of Variable Depth (FT)	Area of Variable Depth (SQ FT)	Volume of Variable Depth (CU FT)	QUANTITY
HMA Connector	49+49.58	49+59.58	LT / RT	0.96	1.58	79	49.4	0.31	184	57.5	4.0
HMA Connector	50+40.42	50+50.42	LT / RT	0.96	1.58	79	49.4	0.31	184	57.5	4.0
2nd Ave Transition	50+10.42	50+62.00	RT	0.96	1.58	148	92.5	0.31	278	86.9	6.6
LT Sidewalk				0.42	0.75	851	283.7				10.5
LT Driveway				0.50	0.83	269	89.7	0.33	104	34.7	4.6
RT Sidewalk				0.42	0.75	149	49.7				1.8
RT Driveway				0.50	0.83	118	39.3				1.5
Aggregate Subgrade Improvement					1.00	2382	2382				88.2
Temporary Sidewalk					0.33	412.8	137.6				5.1
TOTAL											130

PAY ITEM NUMBER	PAY ITEM NAME							UNIT OF MEASURE
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70							TON
LOCATION	STATION	STATION			SQ FT	SQ YD	Depth (IN)	QUANTITY
S. Bridge Approach					786	87.33	2.25	11.00
Culvert					546	60.67	9.50	32.27
N. Bridge Approach					786	87.33	2.25	11.00
2nd AVE					148	16.44	17.25	15.89
2nd AVE					278	30.89	13.50	23.35
2nd AVE					857	95.22	9.75	51.99
TOTAL								145.5

PAY ITEM NUMBER	PAY ITEM NAME						UNIT OF MEASURE
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH						SQ YD
LOCATION	STATION	STATION	OFFSET		SF		QUANTITY
IL 23			RT		134.2		14.91
IL 23			LT		290.3		32.26
TOTAL							47.2

PAY ITEM NUMBER	PAY ITEM NAME						UNIT OF MEASURE	
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70						TON	
LOCATION	STATION	STATION	LT/RT		SQ FT	SQ YD	Depth	QUANTITY
S. Bridge Approach					786	87.33	1.75	8.56
Culvert					546	60.67	1.75	5.95
N. Bridge Approach					786	87.33	1.75	8.56
2nd AVE					1284	142.67	1.75	13.98
Resurfacing North	50+42.00	50+62.00	LT		154.84	17.20	2.31	2.23
Resurfacing North	50+42.00	50+62.00	RT		170.27	18.92	1.75	1.85
TOTAL								41.1

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
 SCHEDULE OF QUANTITIES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

PAY ITEM NUMBER	PAY ITEM NAME					UNIT OF MEASURE
25000100	SEEDING, CLASS 1					ACRE
	LOCATION	FROM STA	TO STA	OFFSET		QUANTITY(AC)
	IL RTE 23	49+43	49+65	LT		0.01
	IL RTE 23	49+77	49+88	LT		0.01
	IL RTE 23	50+10	51+10	LT		0.04
	IL RTE 23	49+64	49+99	RT		0.01
	TOTAL					0.07

PAY ITEM NUMBER	PAY ITEM NAME					UNIT OF MEASURE
28000305	TEMPORARY DITCH CHECKS					FOOT
	STATION	OFFSET	LT/RT		EACH	FT/EACH
	50+05	45	LT		1	20
	TOTAL					20.00

PAY ITEM NUMBER	PAY ITEM NAME					UNIT OF MEASURE
28000510	INLET FILTERS					EACH
	STATION	OFFSET	LT/RT			QUANTITY
	49+45	15'	LT			1
	49+42	15'	RT			1
	50+80	15'	LT			1
	50+80	15'	RT			1
	51+10	15'	LT			1
	TOTAL					5.00

PAY ITEM NUMBER	PAY ITEM NAME						UNIT OF MEASURE
28000400	PERIMETER EROSION BARRIER						FOOT
	FROM STA.	FROM OFFSET	LT/RT	TO STA.	TO OFFSET	LT/RT	QUANTITY(FT)
	49+43	33	LT	49+67	43	LT	34
	49+50	16	LT	49+50	20	LT	4
	49+76	43	LT	50+01	53	LT	24
	50+05	53	LT	51+10	29	LT	223
	51+10	16	LT	51+10	25	LT	9
	49+40	15	RT	49+40	24	RT	10
	49+64	33	RT	49+98	60	RT	47
	50+05	60	RT	50+13	60	RT	8
	TOTAL						359.00

PAY ITEM NUMBER	PAY ITEM NAME				UNIT OF MEASURE
25000110	SEEDING, CLASS 1A				ACRE
	LOCATION	BEGIN STA	END STA	OFFSET	QUANTITY(AC)
	IL RTE 23	49+50	49+60	LT	0.001
	IL RTE 23	49+81	51+10	LT	0.016
	IL RTE 23	49+40	49+46	RT	0.002
	IL RTE 23	49+63	50+09	RT	0.01
	IL RTE 23	50+05	50+13	RT	0.003
	TOTAL				0.03

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 CHECKED - HREGAN
 DATE - 8/18/2023

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
 SCHEDULE OF QUANTITIES**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

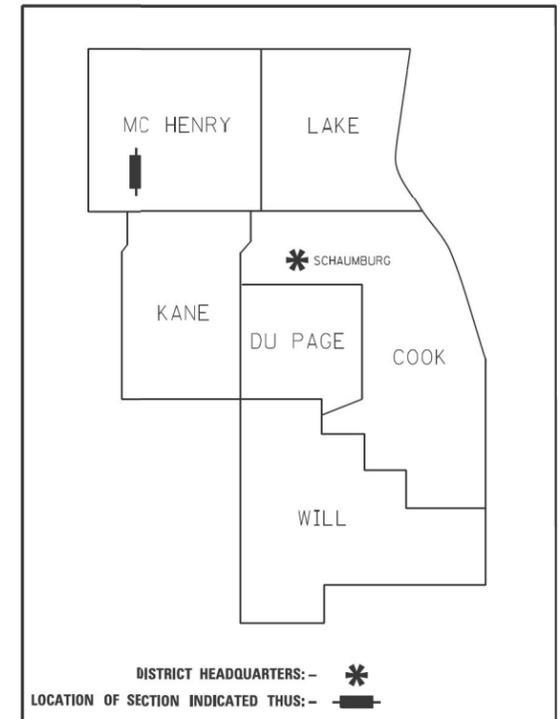
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS

ROUTE: ILLINOIS ROUTE 23
SECTION: _____
COUNTY: MCHENRY
LIMITS: DITCH NORTH OF IL 176
JOB NO.: R-91-019-18

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1010001PE 1010001TE-A 1010001TE-B	CITY OF MARENGO, ILLINOIS	2 & 3	
1010002TE	DEWAYNE KERLEY	2 & 3	
1010003 1010003PE	DENNIS P. GOERS AND DEBRA A. GOERS, HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY	2 & 3	



**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



LOCATION MAP

RETURN ORIGINAL TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG ILLINOIS, 60169
ATTN: BUREAU OF LAND ACQUISITION

IDOT USE ONLY

APPROVED
By Miguel Coronado at 1:05 pm, Sep 26, 2023

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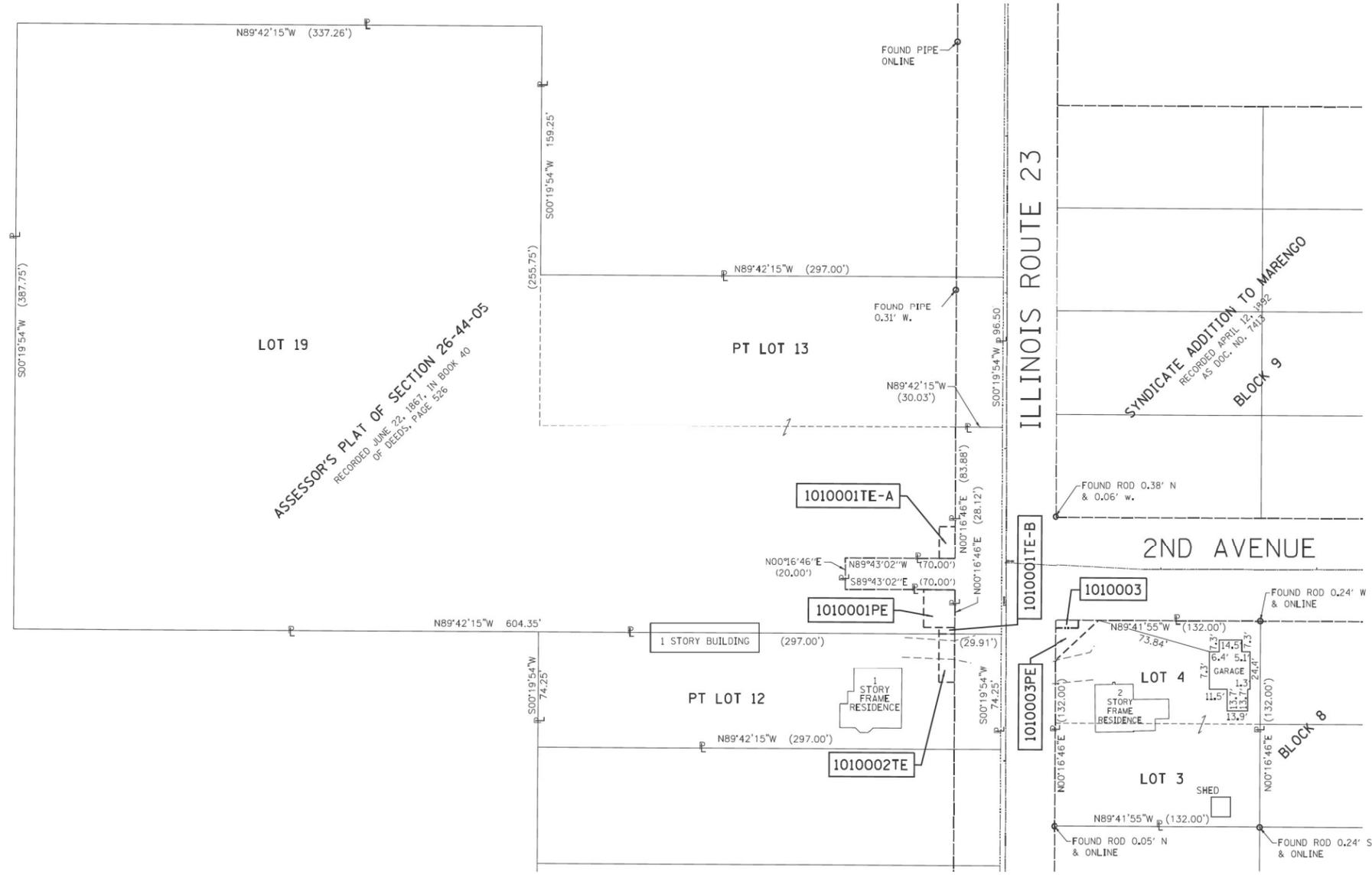
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAT OF HIGHWAYS
IL 23**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	9
CONTRACT NO. 62H25				
ILLINOIS FED. AID PROJECT				

PART OF THE SW 1/4 OF SECTION 25 & SE 1/4 OF SECTION 26, TWP. 44 N., R. 5 E. OF THE 3RD. P.M., IN MCHENRY COUNTY, ILLINOIS.



LEGEND

SECTION CORNER: 9, 10, 15, 16

QUARTER SECTION CORNER: 16, 15

SECTION / QUARTER SECTION LINE

PLATTED LOT LINES

PROPERTY (DEED) LINE

APPL 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

GRAPHIC SCALE FEET: 1" = 40'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

IRON PIPE OR ROD FOUND @ "MAG" NAIL SET

CUT CROSS FOUND OR SET ● 5 / 8" REBAR 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 0.99954671.
- AREAS SHOWN ON THIS PLAT ARE "GROUND".
- FIELD SURVEY COMPLETED ON 03/09/2021.

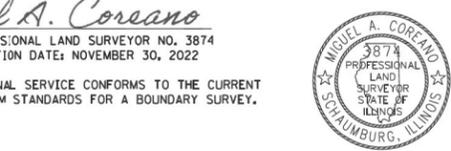
STATE OF ILLINOIS)
COUNTY OF COOK)

THIS IS TO CERTIFY THAT, THE ILLINOIS DEPARTMENT OF TRANSPORTATION, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 25 & 26, TOWNSHIP 44 NORTH, RANGE 5 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY 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.

DATED AT SCHAUMBURG, ILLINOIS THIS 12TH DAY OF OCTOBER 2021 A.D.

Miguel A. Coreano
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3874
LICENSE EXPIRATION DATE: NOVEMBER 30, 2022

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



Illinois Department of Transportation
Division of Highways/District 1
Bureau of Land Acquisition
201 West Center Court/Schaumburg, Illinois 60196-1098

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
(ILLINOIS ROUTE 23)

LIMITS: DITCH NORTH OF IL 176 COUNTY: MCHENRY
SECTION: 324 TO STA. 51+00 JOB NO.: R-91-019-18
STA. 49+35.6 TO STA. 51+00 SHEET 3 OF 3 SHEETS
SCALE: 1" = 40'

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

APPROVED
By Miguel Coreano at 1:05 pm, Sep 26, 2022

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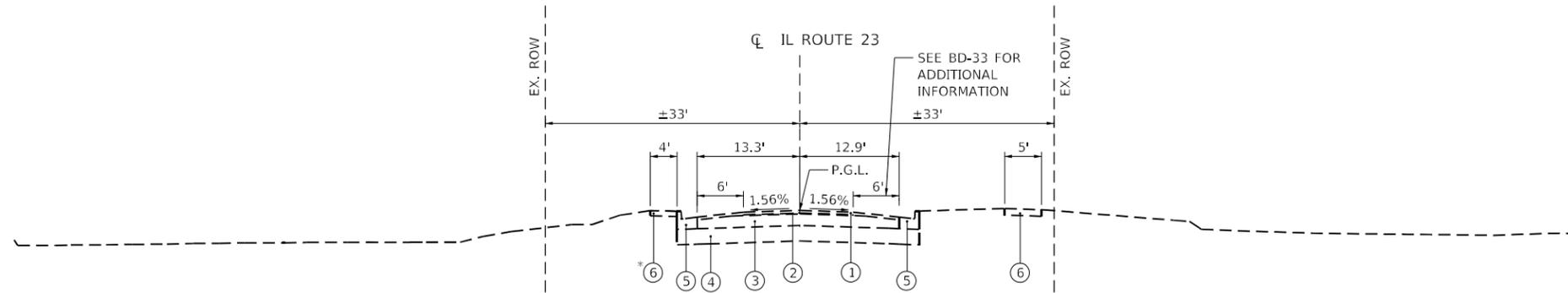


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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 23		324	2018-091-CR	MCHENRY	45	11
SCALE:	SHEET 1 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 62H25		
				ILLINOIS	FED. AID PROJECT	

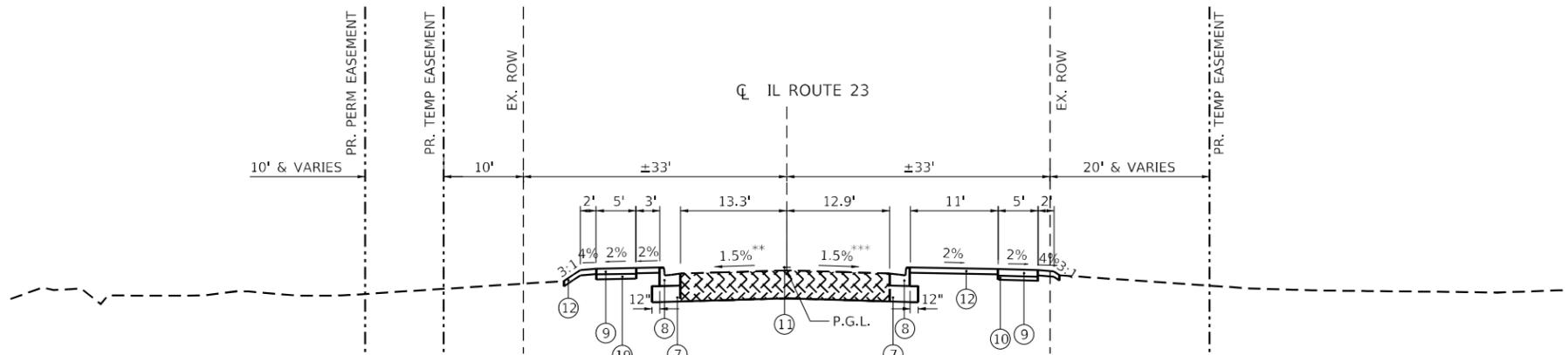
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**IL ROUTE 23
EXISTING TYPICAL SECTION**

STA. 49+49.58 TO STA. 50+62.00

* EXISTING DRIVEWAY STA. 49+60.09 TO STA. 49+81.44



**IL ROUTE 23
PROPOSED TYPICAL SECTION**

STA. 49+49.58 TO STA. 50+62.00 (SEE NOTES)

** GRADE VARIES: STA. 49+49.58 TO STA. 49+59.58 & STA. 50+40.42 TO STA 50+62.00

*** GRADE VARIES: STA. 49+49.58 TO STA. 49+59.58 & STA. 49+94.19 TO STA 50+62.00

LEGEND:

- ① EXISTING 2 1/2" HOT-MIX ASPHALT SURFACE COURSE
- ② EXISTING POLY. LEVELING BINDER (MM), IL -4.75, N 50, 3/4"
- ③ EXISTING 9" PORTLAND CEMENT CONCRETE
- ④ EXISTING 12" AGGREGATE SUBGRADE
- ⑤ EXISTING CURB AND GUTTER
- ⑥ EXISTING SIDEWALK
- ⑦ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑧ PROPOSED COMBINATION CURB AND GUTTER, TYPE B-6,24
- ⑨ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5"
- ⑩ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑪ PROPOSED THERMOPLASTIC PAVEMENT MARKING TYPE II - LINE 4" (YELLOW 10' DASH, 30' SKIP)
- ⑫ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT 6"
- XXXXX PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75". AND HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 2.25"-17.5". SEE STRUCTURAL SHEETS FOR BASE/SUBBASE.

NOTES:

1. PAVEMENT CONNECTOR (HMA): STA 49+49.58 TO STA 49+59.58 & STA 50+40.42 TO STA 50+50.42 SEE IDOT STANDARD 420406.
2. HMA OVERLAY AND PAVEMENT PATCHING: STA 54+50.42 TO STA 50+62.00 SEE IDOT STANDARD 442101.
3. BRIDGE APPROACH: STA 49+59.58 TO 49+89.58 & STA 50+10.42 TO STA 50+40.42. SEE SHEET 10 - PAVEMENT & GRADING DETAIL.
4. CULVERT: STA 49+89.58 TO 50+10.42 FULL DEPTH PAVEMENT. SEE SHEET 10 - PAVEMENT & GRADING DETAIL.
5. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
6. 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.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NODES	QMP
RECONSTRUCTION PAVEMENT - CULVERT SECTION		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 8"-11".	4% @ 70 GYR	QC/QA
RECONSTRUCTION PAVEMENT - 2ND AVE		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 9.75"-17.25"	4% @ 70 GYR	QC/QA
BRIDGE APPROACH		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 2.25".	4% @ 70 GYR	QC/QA
PAVEMENT CONNECTOR (HMA)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 9.75"-17.25"	4% @ 70 GYR	QC/QA
TEMPORARY SIDEWALK		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 4"	4% @ 70 GYR	QC/QA
HMA OVERLAY AND OVER CONCRETE PATCHING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, VARIES 2.5"-1.75"	4% @ 70 GYR	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		

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	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
EXISTING & PROPOSED TYPICALS SECTIONS**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 324	SECTION 2018-091-CR	COUNTY MCHENRY	TOTAL SHEETS 45	SHEET NO. 12
			CONTRACT NO. 62H25	
ILLINOIS FED. AID PROJECT				

I - General Construction

The contractor, subcontractors, their assigns, etc. are considered to be skilled and experienced in the use and interpretation of plans and specifications such as those included in the bid documents or herein described for this contract. Said contractor and subsequent sub-contractors, assigns, etc. are to have carefully reviewed said documents and have found them free of ambiguities and are sufficient for bid and construction purposes.

- A. The Contractor shall provide all labor and materials necessary for a complete and finished installation, including any alterations to work already performed, entirely to the satisfaction of the Owner and/or Engineer.
- B. All labor, materials, and systems or components thereof to be in full accordance with the requirements of all governing codes and regulations having jurisdiction over this work. Each Contractor to obtain and pay for all permits and inspections as required for proper installation of their respective work.
- C. The Contractor shall visit the site and take into account all existing conditions as they may affect the work, and to include in its proposal any changes as may be required by supplementation to the new work. Failure to recognize work required shall not be reason for additional compensation after the letting of the contract.
- D. The cost of all testing of the underground utilities as required shall be considered as incidental to the underground contract, unless a specific pay item is listed in the bid documents. See sanitary sewer and water main construction for testing.
- E. Whenever equipment or material is identified in the specifications by reference to a manufacturer's brand, trade name, catalogue number, or similar notation, it is intended to merely establish a standard. A substitution may be permitted provided a prior request is submitted in writing and approved by the Engineer.
- F. Locations of existing underground utilities shown on the plans are taken from existing records. The actual locations and depths of these utilities to be verified by the Contractor in the field.
- G. All materials shall be as shown on drawings or as per specification. Any substitutes shall be permitted only upon receiving written approval from the Owner and/or Engineer. Upon request by the Owner and/or Engineer to furnish samples, the Contractor shall submit the requested samples for approval.
- H. Any discrepancies, conflicts or ambiguities on the drawings shall be brought to the attention of the Engineer, and the Contractor shall not relieve the Contractor of bearing additional costs for labor, materials, and installation to complete its work as intended.
- I. All materials and workmanship of each trade shall be guaranteed for a period of 1 (one) year from the time of final acceptance and payment by the Owner.
- J. The Contractor shall be responsible for verifying field measurements and design dimensions before ordering materials and prefabricated items. Any necessary adjustments shall be made in accordance with the decision of the Owner and/or Engineer.
- K. The Engineer and his consultants do not warrant or guarantee the accuracy and completeness of the work product herein beyond a reasonable diligence. If any mistakes, omissions or discrepancies are found to exist within the work product, the Engineer shall be promptly notified so that he may have the opportunity to take appropriate action necessary to resolve the differences. Failure to promptly notify the Engineer of such conditions shall absolve the Engineer from any responsibility for the consequences of such failure. Actions taken without the knowledge and consent of the Engineer, or in contradiction to the Engineer's work product or related recommendations, shall become the responsibility not of the Engineer but the parties responsible for taking such action.
- L. The Contractor agrees to indemnify and hold the Owner, Engineer and the Municipality, County or Township where the work is to be performed or constructed harmless from all liability and expenses including the cost of defending actions arising out of the performance of the work undertaken, or out of any claim by any Subcontractor or anyone who furnishes material, equipment or labor in the work of this project.

M. Contractor shall provide shop drawings for Engineer's review and approval prior to ordering materials. Shop drawings shall be provided for the following:

- M.1. Sanitary sewer (PVC)
- M.2. Water main (PVC), tracer wire and casing pipe (steel)
- M.3. Casement pipe with spacers and end seals
- M.4. Sanitary manholes w/ frame and lid, external chimney seal and joint wrap
- M.5. Valves, D.I. fittings and pressure connections
- M.6. Trench backfill

N. References herein to "OWNER" shall mean the City of Marengo for proposed water and sanitary improvements. References to "ENGINEER" shall mean McMahon Associates, Inc.

II - Steel Casing (water main)

- A. Water shall be cased in conformance with AWWA Standards C900-97, C905-97 and C600-99
- B. Casing shall include spacers and end seals. Annular space between carrier pipe and casing pipe shall not be filled. Refer to water main sheet notes and special provisions for additional information/requirements.

III - Sanitary Sewer (Materials)

- A. All sanitary sewer mains and service connections shall be PVC Pipe SDR 35. The pipe shall meet ASTM D3034 and be installed as outlined in ASTM D2321.
- B. Where min. vertical or horizontal clearances from water mains cannot be maintained, use ductile iron pipe which shall conform to the requirement of ASA A21.51, Class 52, cement lined with push-on joints, ASA A21.11. Fittings shall conform to ASA Specifications A21.10.
- C. Manhole frames and covers for sanitary manholes meeting ASTM A48 (latest) with non-rocking, self-sealing, solid lido with concealed pick holes. They shall be heavy-duty type with word "SANITARY" on the lid.
- D. Manhole steps - per ASTM C478, spacing 12 inch or 16 inch centers. The max. distance to the 1st step shall be 18".
- E. Precast adjusting rings may be used to a maximum of 12 inches to set frames to finish grade.
- F. Manholes (precast) reinforced A.S.T.M. C478 (latest) min. 48 inch diameter for pipe 24 in. And less, 60 inch diameter for pipe 27 in. To 36 inches (U.N.).
- G. Ductile iron pipe shall conform to the requirement of A.S.A. A21.51, Class 52, cement lined with push on joints (A.S.A. A21.11). Fittings shall conform to A.S.A. Specifications A21.10.

IV - Sanitary Sewer (Construction)

- A. Minimum bedding four inches below pipe to 12 inches above top of pipe. Bedding material shall be 3/4" clean gravel.
- B. Manholes shall have 4 inches of stone bedding. The joints shall have "O" rings or shall be performed bituminous plastic gasket with inert mineral filler to provide watertight seal.
- C. Manhole frames shall be set to final grade and fastened to manhole with bituminous mastic sealant material to provide watertight seal.
- D. Water-stop gaskets shall be provided at all sanitary sewer manhole connections. Such gaskets shall be in accordance with manufacturer's specifications for the type of pipe used.
- E. The external chimney seal shall be provided on all sanitary sewer manholes. External joint wrap over all barrel joints is also required.
- F. "Band-Seal" joints with stainless steel straps and bolts shall be used at all points of change in sewer pipe material.
- G. Repair sleeves shall not be used to make closures during new construction.
- H. Sanitary sewer will be tested by air test (5 PSI for 5 min. Max. Loss=1.0 PSI). If, in the opinion of the Engineer/Inspector conditions warrant, he may require an infiltration test in lieu of the air test. Air test shall follow ASTM F1417-92.
- I. In addition to the air or infiltration testing, the following tests shall be performed in PVC pipe if used:
 - 1.1. The entire system shall be deflection tested.
 - 1.2. The lines shall be tested for excess deflection by pulling a mandrel through the pipe from manhole to manhole. The outside diameter of the test mandrel shall be equal to 95% percent of the original inside diameter of the pipe being used.
 - 1.3. The individual lines to be tested shall be so tested no sooner than thirty days after they have been installed.
 - 1.4. Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.
 - 1.5. Where deflection is found to be in excess of 5% of the original pipe diameter, the contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be retested for deflection. However, should after the initial testing, the deflected pipe fail to return to the original size (inside diameter), the line shall be replaced.
- J. Maximum allowable infiltration shall be 200 gallons per inch of diameter or sewer per mile per 24 hours.
- K. The Manhole shall be air tested in accordance with ASTM C1244-93, Standard Test Method for Concrete Sewer Manholes by Negative Air Pressure (Vacuum) Test.
- L. Sanitary sewer trenches (removals and proposed) shall be backfilled with IDOT approved trench backfill when under existing pavement. In all other areas, native material may be used if approved by ENGINEER.

V - Water Main (Materials)

- A. Polyvinyl chloride pipe (PVC) shall meet the requirements of AWWA C900, pressure class 235, DR-18 with push-on joints meeting the requirements of ASTM F477 and ASTM D3139. Fittings shall be ductile iron with mechanical joint ends meeting requirements of AWWA C110 and C111. Short body ductile iron meeting AWWA C153 and ANSI A21.53. Use cor-blue tee bolts.
- B. Resilient wedge gate valves shall meet the requirements of AWWA C515 and shall be resilient wedge type or approved equal. They shall have left turn (counter-clockwise) opening with 2-inch square head for keying. Manufacture and model to be approved by City of Marengo.
- C. Valve boxes shall be cast iron, 3-piece, screw type with 5 1/4-inch shaft. Box length to provide for a minimum of 6.5 feet of pipe cover. Type shall be "Taylor" or approved equal.
- D. Tracer wire shall be attached to each pipe segment a minimum of three (3) times. Ground wire to all valves, fittings and hydrants. Acceptable tracer wires shall be #10 AWG copper or #12 AWG copper clad steel.

V - Water Main (Construction - AWWA)

- A. Minimum bedding, 4 inches below pipe to top of pipe for ductile iron 6 inches below pipe to 12 inches above top of pipe for PVC. Bedding shall be of material specified in the "Trench Detail".
- B. Selected granular material. It shall be required for all water trenches lying under existing or proposed street, driveway or sidewalk and within 24 inches thereof. The backfill material shall be IDOT-approved trench backfill.
- C. Thrust blocks required at all bends, tees, caps, and valves (see details) and shall follow AWWA Standard C600-10.
- D. Special poured-in-place anchoring shall be used on all valves to prevent movement during testing against closed valves.
- E. Pressure testing shall be at 150 PSI for two hours.
- F. Perform pressure and leakage test in accordance with AWWA C600-10 and C605-94. Test pressure shall be 150 psi for a duration of 2 hours during which time the pressure should not vary more than 5 psi. Allowable leakage shall be calculated using the following equation:

$$L = \frac{SDP^{0.5}}{148,000}$$
 where:
 - D = Nominal pipe diameter (inches)
 - L = Allowable leakage (gal/hr)
 - P = Avg test pressure (PSI)
 - S = Length of pipe tested (feet)
- G. Disinfection shall be performed by flushing, then chlorinating at a rate of 50 PPM to insure a residual of 25 PPM after 24 hours. Then after secondary flushing a minimum of two water purity samples on two consecutive days 24 hours apart shall be submitted for testing. Disinfection should follow AWWA C651-14 or current standards.
- H. Separation of water and sanitary sewer lines shall be 10 feet minimum, horizontally. If 10 feet is not possible, sewer shall be of water main quality material and construction. If crossing pipes, proved 18+ inches and in addition, locate water pipe joints an equal distance from crossing point.
- I. Conduct a tracer wire test on the completed water system in the presence of a City of Marengo representative.

NUMBER OF HYPOCHLORITE TABLES OF 5 gm REQUIRED FOR DOSE OF 25 Mg/l*

LENGTH OF SECTION	PIPE DIAMETER IN INCHES					
	4-INCHES	6-INCHES	8-INCHES	10-INCHES	12-INCHES	16-INCHES
≤13 Feet	1	1	1	2	3	4
18 Feet	1	1	2	3	4	6
20 Feet	1	1	2	3	4	7
30 Feet	1	2	3	4	6	10
40 Feet	1	2	4	5	7	13

* Based upon 3-1/4 g available chlorine per tablet.

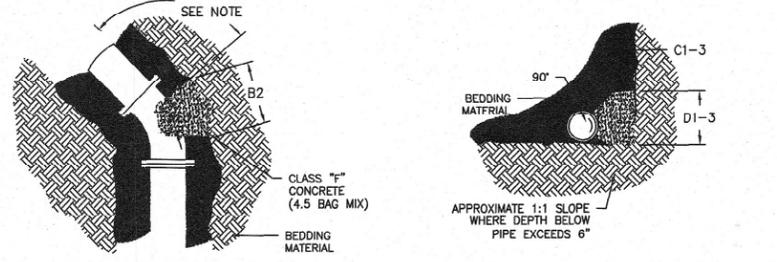
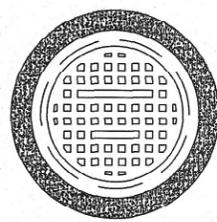
MINIMUM RESTRAINT LENGTH (FT) ON BOTH SIDES OF THE FITTING

FITTING TYPE / NOMINAL SIZE	6-INCH	8-INCH	12-INCH	16-INCH
11 1/2° Bend	2	2	3	3
22 1/2° Bend	3	3	5	6
45° Bend	5	6	9	11
90° Bend	11	15	21	27
Dead End	30	40	56	73
Top Site of a Vertical offset	13	17	24	31
Tee Run x Branch 6" BY	14			
Tee Run x Branch 8" BY	10	24		
Tee Run x Branch 12" BY	1	15	40	
Tee Run x Branch 16" BY	1	7	33	56

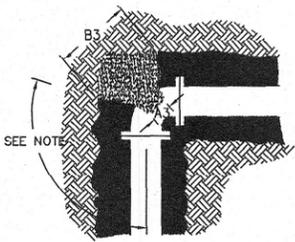
OUNCES OF CALCIUM HYPOCHLORITE TABLETS TO BE PLACED AT THE BEGINNING OF MAIN AND AT EACH 500-FT INTERVAL

PIPE DIAMETER IN INCHES					
4-INCHES	6-INCHES	8-INCHES	10-INCHES	12-INCHES	14-INCHES & LARGER
1.7	3.8	6.7	10.5	15.1	D² X 15.1

Where D is the inside pipe diameter in feet D = d/12

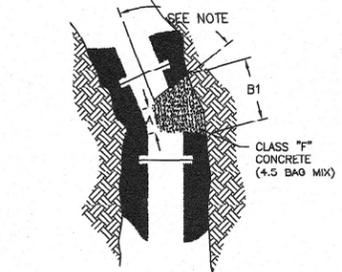


45° BEND



90° BEND

SECTION



22.5° BEND

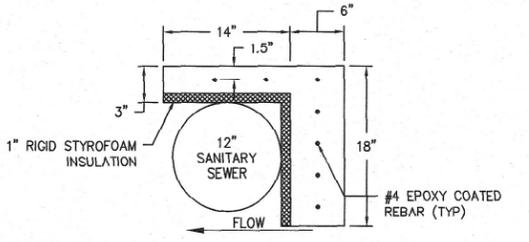
BUTTRISS DIMENSIONS

DIA	22.5°		45°		90°	
	B-1	D-1	B-2	D-2	B-3	D-3
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-0"	1'-10"	1'-6"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-0"	2'-3"
16"	1'-10"	1'-8"	2'-4"	2'-0"	3'-10"	2'-10"
20"	2'-4"	2'-0"	3'-3"	2'-10"	3'-0"	3'-4"
24"	2'-10"	2'-4"	4'-0"	3'-3"	4'-4"	3'-10"
30"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"

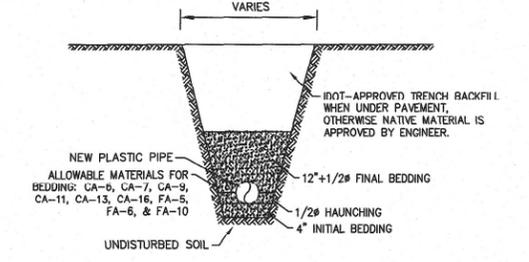
- Notes**
- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI AND ON EARTH RESISTANCE OF 2 TONS PER S.F.
 - DIMENSION C1-3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR GREATER THAN 45°.
 - DIMENSION A1-3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH M.J. BOLTS.
 - SHAPE OF BACK OF BUTTRISS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH.
 - ALL IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
 - IN LIEU OF CONCRETE, CONTRACTOR MAY, AT HIS OPTION, UTILIZE THRUST RESTRAINT DEVICES AT WATER MAIN FITTINGS

Water Main Fittings Thrust Blocking

NOT TO SCALE



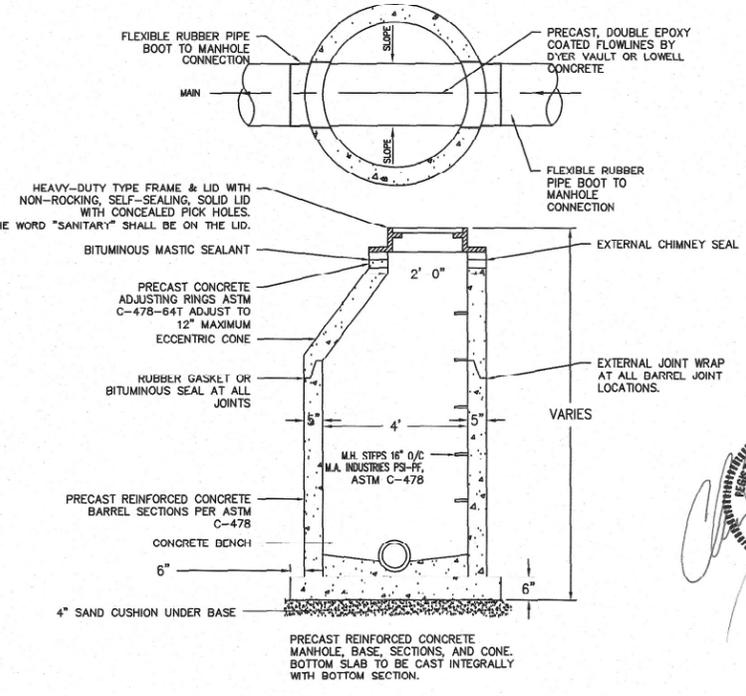
SANITARY SEWER PIPE PROTECTION DETAIL

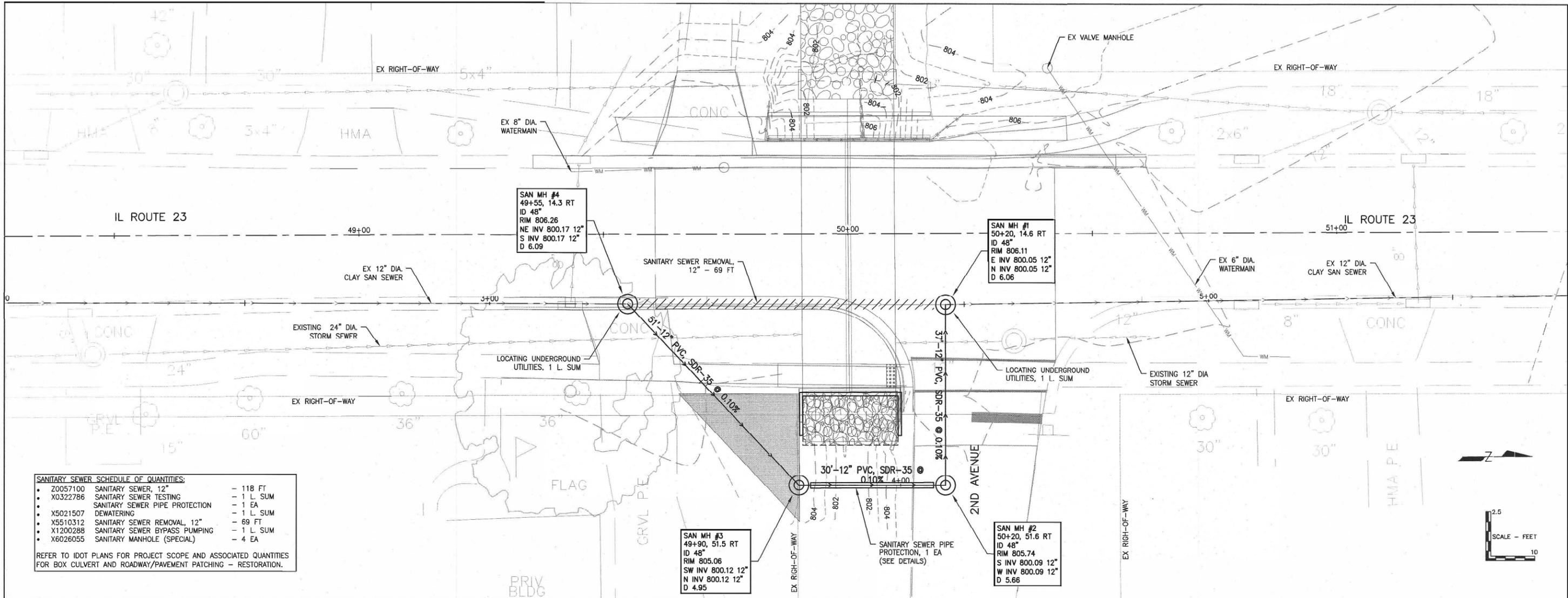


TRENCH DETAIL FOR ALL PLASTIC PIPE

Sanitary Sewer Manhole

NOT TO SCALE



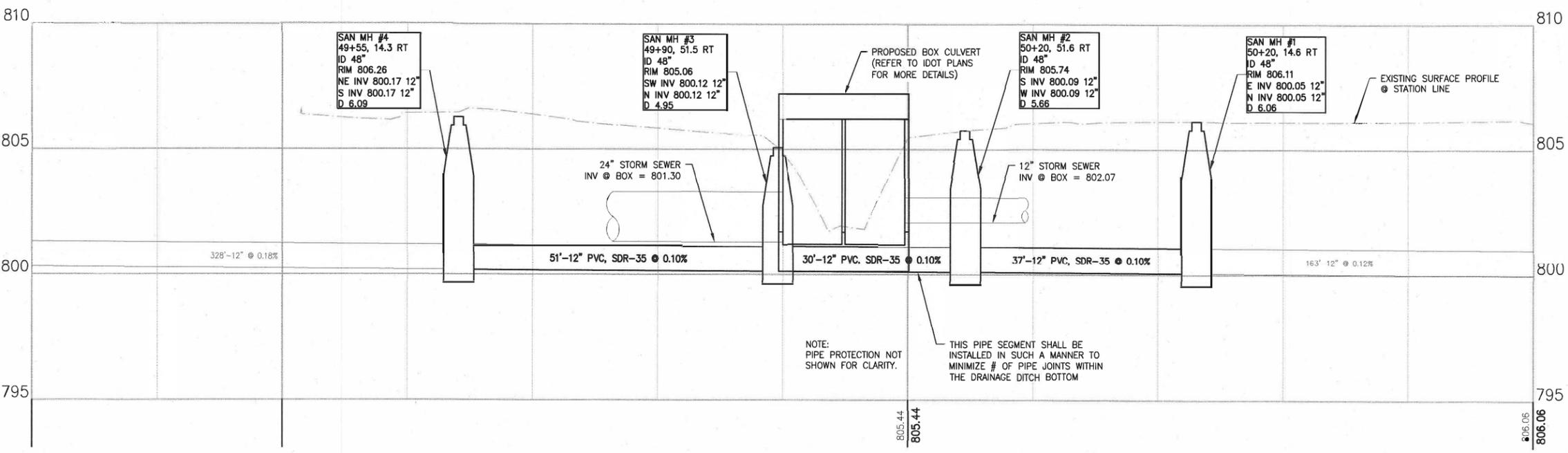


SANITARY SEWER SCHEDULE OF QUANTITIES:

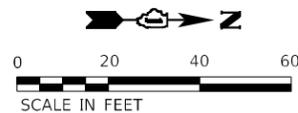
• 20057100	SANITARY SEWER, 12"	- 118 FT
• X0322786	SANITARY SEWER TESTING	- 1 L. SUM
• X5021507	SANITARY SEWER PIPE PROTECTION	- 1 EA
• X5510312	DEWATERING	- 1 L. SUM
• X1200288	SANITARY SEWER REMOVAL, 12"	- 69 FT
• X6026055	SANITARY SEWER BYPASS PUMPING	- 1 L. SUM
	SANITARY MANHOLE (SPECIAL)	- 4 EA

REFER TO IDOT PLANS FOR PROJECT SCOPE AND ASSOCIATED QUANTITIES FOR BOX CULVERT AND ROADWAY/PAVEMENT PATCHING - RESTORATION.

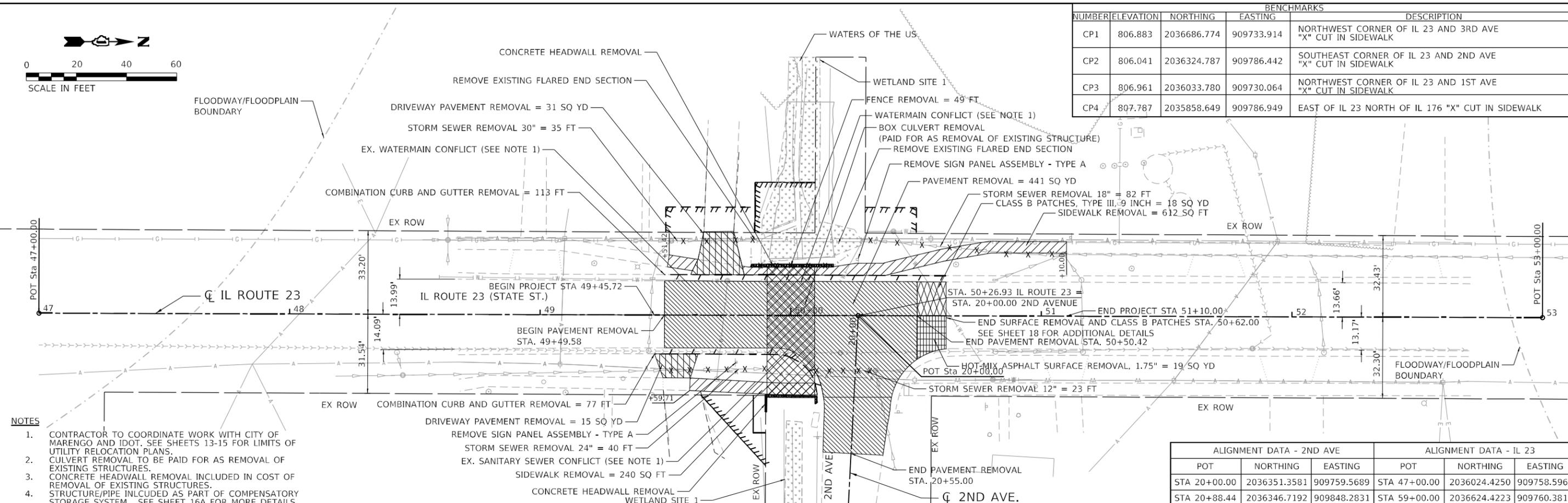
- NOTES:**
1. PROPOSED SANITARY SEWER IMPROVEMENTS SHOWN ONLY. REFER TO OTHER PLAN SHEETS FOR WATER AND BOX CULVERT IMPROVEMENTS.
 2. REFER TO BOTH WATER/SANITARY NOTES & DETAILS SHEET AND SPECIAL PROVISIONS FOR MORE INFORMATION REGARDING SANITARY SEWER IMPROVEMENTS.
 3. CONTRACTOR SHALL BYPASS PUMP SEWAGE AROUND PROJECT LIMITS TO DOWNSTREAM MANHOLE FOR DURATION OF SANITARY INSTALLATION AND TESTING.
 4. SANITARY SEWER TRENCHES FOR BOTH PROPOSED AND REMOVAL OF EXISTING SANITARY MAINS SHALL BE BACKFILLED WITH IDOT-APPROVED TRENCH BACKFILL WITHIN 2-FOOT OF PAVEMENT EDGE. NATIVE MATERIAL MAY BE USED AS BACKFILL EVERYWHERE ELSE IF ACCEPTABLE TO THE ENGINEER.
 5. CONTRACTOR SHALL EXPLORATORY DIG EXISTING SANITARY MAIN AT BOTH PROPOSED MANHOLE LOCATIONS TO CONFIRM CLAY PIPE O.D. PRIOR TO ORDERING MANHOLES WITH BOOT CONNECTIONS. THIS WORK SHALL BE PAID AS "LOCATING UNDERGROUND UTILITIES" PER L. SUM.



McMAHON <small>McMAHON ASSOCIATES, INC. 1700 HUTCHINS ROAD MACHESNEY PARK, IL 61115 PH 815.636.9590 FX 815.636.9591 MCMGRP.COM</small>	USER NAME =	DESIGNED CDD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CITY OF MARENGO IL 23 - SANITARY SEWER IMPROVEMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN JJD	REVISED			324	2018-091-CR	MCHENRY	45	14
	PLOT DATE =	CHECKED -	REVISED	SHEET NO. ___ OF ___ SHEETS		CONTRACT NO. 62H25		ILLINOIS FED. AID PROJECT		



BENCHMARKS					
NUMBER	ELEVATION	NORTHING	EASTING	DESCRIPTION	
CP1	806.883	2036686.774	909733.914	NORTHWEST CORNER OF IL 23 AND 3RD AVE "X" CUT IN SIDEWALK	
CP2	806.041	2036324.787	909786.442	SOUTHEAST CORNER OF IL 23 AND 2ND AVE "X" CUT IN SIDEWALK	
CP3	806.961	2036033.780	909730.064	NORTHWEST CORNER OF IL 23 AND 1ST AVE "X" CUT IN SIDEWALK	
CP4	807.787	2035858.649	909786.949	EAST OF IL 23 NORTH OF IL 176 "X" CUT IN SIDEWALK	

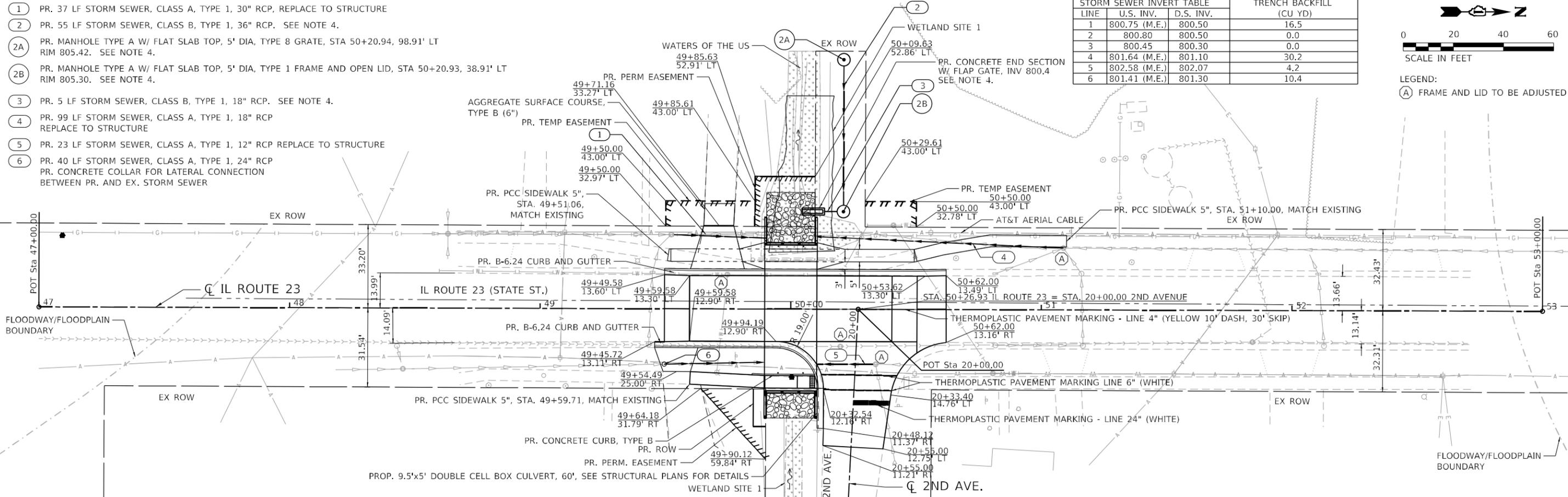
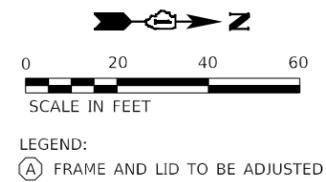


- NOTES**
1. CONTRACTOR TO COORDINATE WORK WITH CITY OF MARENGO AND IDOT. SEE SHEETS 13-15 FOR LIMITS OF UTILITY RELOCATION PLANS.
 2. CULVERT REMOVAL TO BE PAID FOR AS REMOVAL OF EXISTING STRUCTURES.
 3. CONCRETE HEADWALL REMOVAL INCLUDED IN COST OF REMOVAL OF EXISTING STRUCTURES.
 4. STRUCTURE/PIPE INCLUDED AS PART OF COMPENSATORY STORAGE SYSTEM. SEE SHEET 16A FOR MORE DETAILS.

ALIGNMENT DATA - 2ND AVE			ALIGNMENT DATA - IL 23		
POT	NORTHING	EASTING	POT	NORTHING	EASTING
STA 20+00.00	2036351.3581	909759.5689	STA 47+00.00	2036024.4250	909758.5961
STA 20+88.44	2036346.7192	909848.2831	STA 59+00.00	2036624.4223	909760.3815

1. PR. 37 LF STORM SEWER, CLASS A, TYPE 1, 30" RCP, REPLACE TO STRUCTURE
2. PR. 55 LF STORM SEWER, CLASS B, TYPE 1, 36" RCP. SEE NOTE 4.
- 2A. PR. MANHOLE TYPE A W/ FLAT SLAB TOP, 5' DIA, TYPE 8 GRATE, STA 50+20.94, 98.91' LT RIM 805.42. SEE NOTE 4.
- 2B. PR. MANHOLE TYPE A W/ FLAT SLAB TOP, 5' DIA, TYPE 1 FRAME AND OPEN LID, STA 50+20.93, 38.91' LT RIM 805.30. SEE NOTE 4.
3. PR. 5 LF STORM SEWER, CLASS B, TYPE 1, 18" RCP. SEE NOTE 4.
4. PR. 99 LF STORM SEWER, CLASS A, TYPE 1, 18" RCP REPLACE TO STRUCTURE
5. PR. 23 LF STORM SEWER, CLASS A, TYPE 1, 12" RCP REPLACE TO STRUCTURE
6. PR. 40 LF STORM SEWER, CLASS A, TYPE 1, 24" RCP
PR. CONCRETE COLLAR FOR LATERAL CONNECTION BETWEEN PR. AND EX. STORM SEWER

STORM SEWER INVERT TABLE			TRENCH BACKFILL (CU YD)	
LINE	U.S. INV.	D.S. INV.		
1	800.75 (M.E.)	800.50	16.5	
2	800.80	800.50	0.0	
3	800.45	800.30	0.0	
4	801.64 (M.E.)	801.10	30.2	
5	802.58 (M.E.)	802.07	4.2	
6	801.41 (M.E.)	801.30	10.4	



USER NAME = amalla,baymundo	DESIGNED - SLASHOCK	REVISED -
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PLOT DATE = 10/3/2023	CHECKED - HREGAN	REVISED -
	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
REMOVAL & PROPOSED PLANS**

SCALE: 1:40 SHEET OF SHEETS STA. 45+00.00 TO STA. 55+00.00

F.A.P. RTE. 324	SECTION 2018-091-CR	COUNTY MCHENRY	TOTAL SHEETS 45	SHEET NO. 16
CONTRACT NO. 62H25			ILLINOIS FED. AID PROJECT	

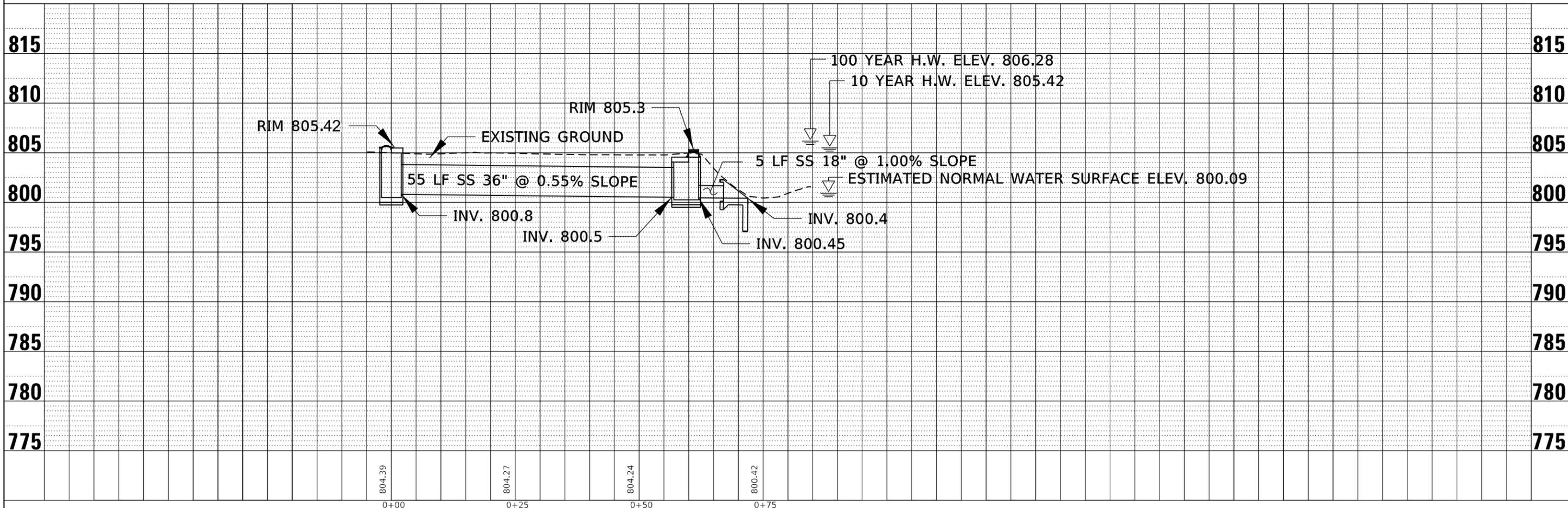
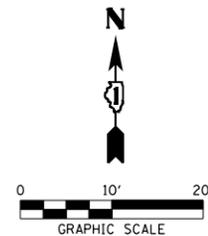
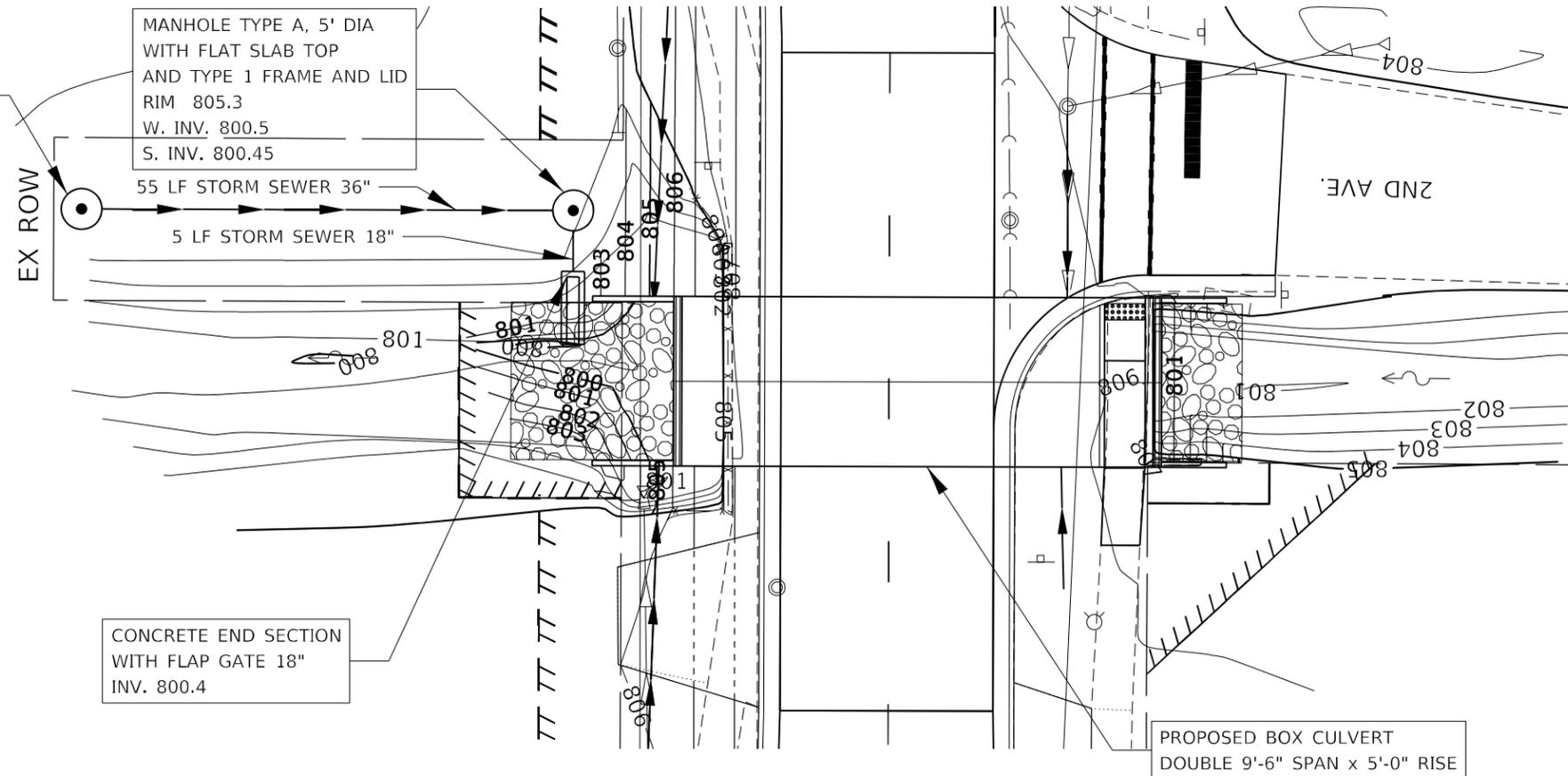
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NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	ALIGNMENT	
	CONTRACT	
	CADD FILE NAME	

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

- NOTES:
- 1) ALL AREAS ON THIS SHEET ARE WITHIN THE FEMA MAPPED FLOODWAYS
 - 2) THE 55 LF OF 36" STORM SEWER AND 5 LF OF 18" STORM SEWER SHOWN ON THIS SHEET ARE FOR COMPENSATORY STORAGE AND SHOULD NOT BE REMOVED OR FILLED IN.
 - 3) A TOTAL OF 20.2 CU YDS OF COMPENSATORY STORAGE IS PROVIDED IN IDENTIFIED PIPES.

LEGEND

- TT TT TEMPORARY CONSTRUCTION EASEMENT
- TTTTTT PERMANENT EASEMENT
- EXISTING R.O.W.
- - - PROP. R.O.W.



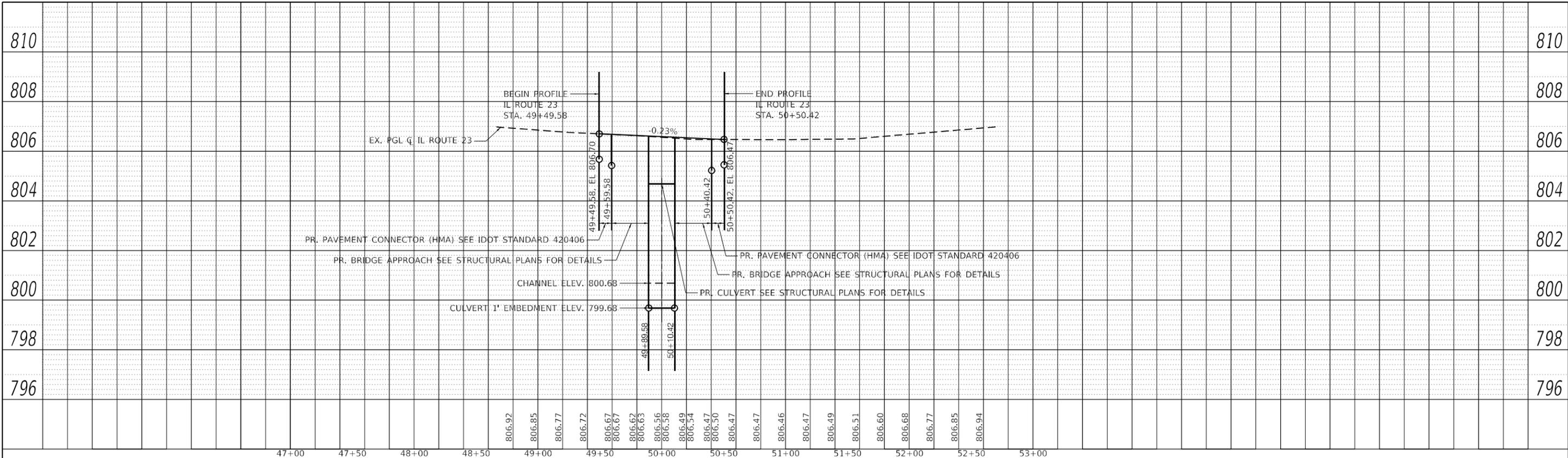
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DRAWN	-	SL
CHECKED	-	HR
DATE	-	10/14/22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

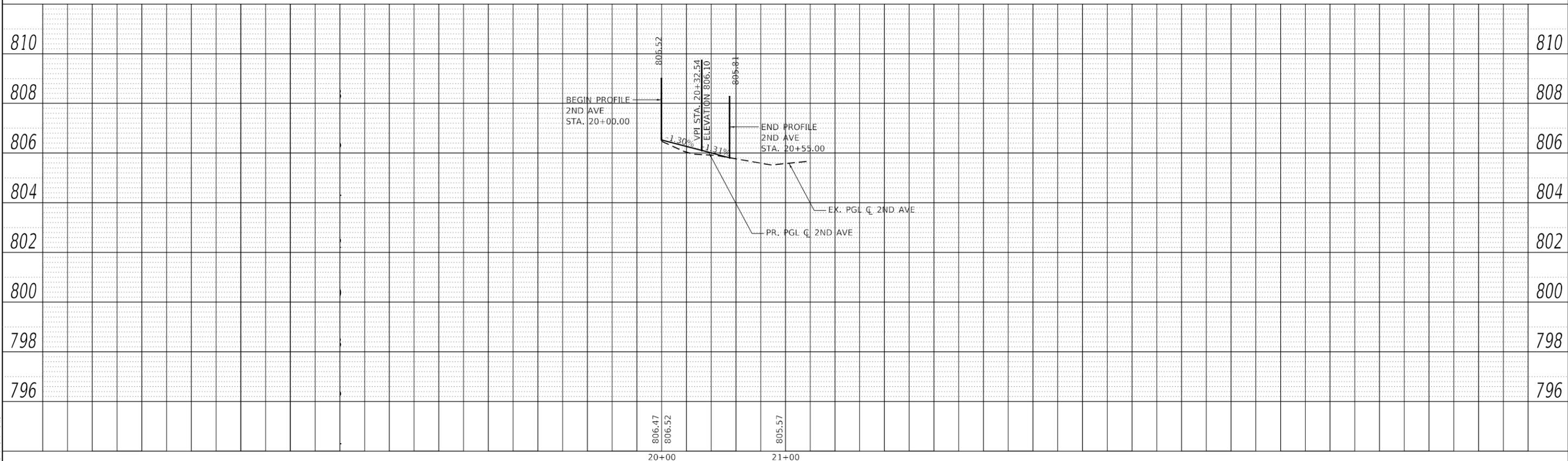
COMPENSATORY STORAGE PLAN
IL 23

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	16A
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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



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



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USER NAME = amalle.baymundo
PLOT SCALE = 80,0000 * / in.
PLOT DATE = 8/22/2023

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DRAWN - SLASHOCK
CHECKED - HREGAN
DATE -

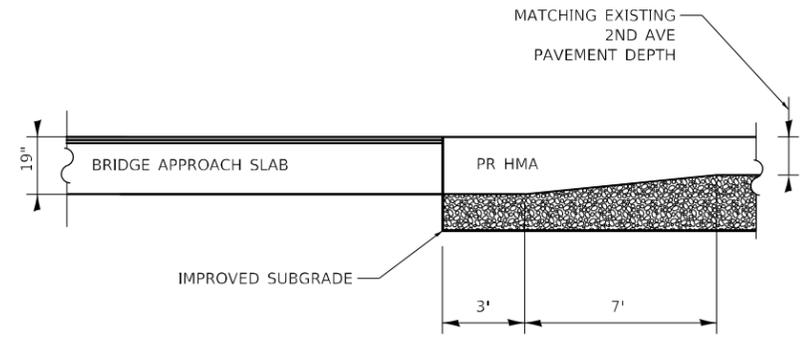
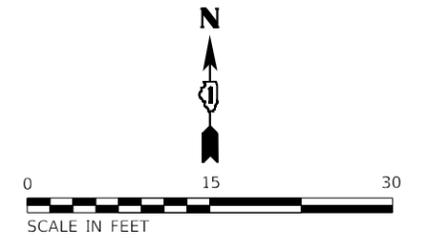
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

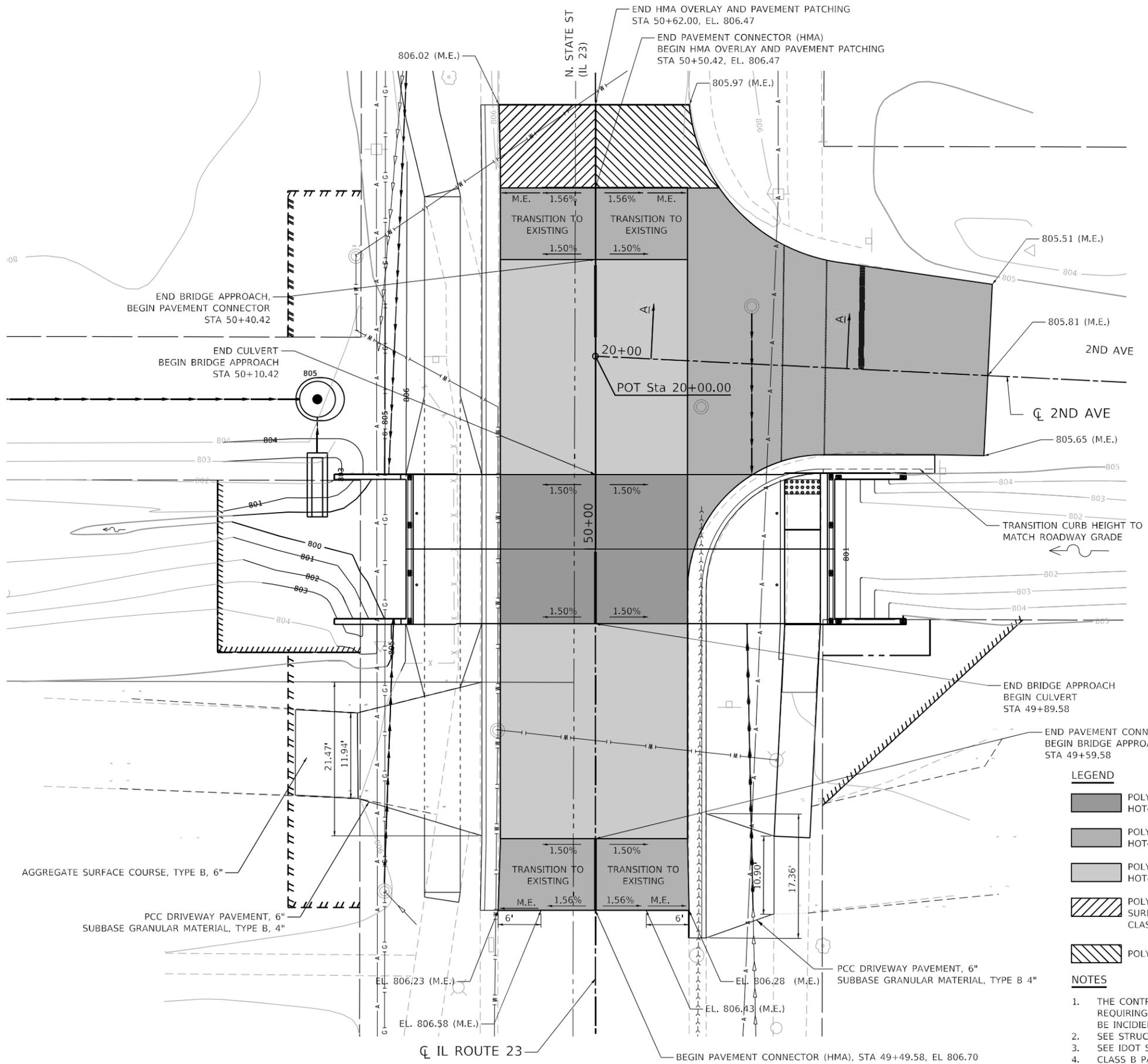
ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
PROPOSED PROFILE

SCALE: H = 1:80 V = 1:4 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	17
			CONTRACT NO. 62H25	
ILLINOIS FED. AID PROJECT				



SECTION A-A



LEGEND

- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 8"-11"
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 9.75"-17.25"
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIES 2.25"
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, VARIES 2.5"-1.75" SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) CLASS B PATCHES, TYPE III, 9"
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"

NOTES

1. THE CONTRACTOR SHALL PLACE A 6 MIL POLYETHYLENE BOND BREAKER BETWEEN ANY PROPOSED WORK REQUIRING CONCRETE TO BE PLACE ON TOP OF THE CULVERT. THE COST OF THE BOND BREAKER SHALL BE INCIDENTAL TO THE ITEM BEING PLACED ON TOP OF THE CULVERT.
2. SEE STRUCTURAL PLANS FOR ADDITIONAL DETAILS.
3. SEE IDOT STANDARD 420406 FOR PAVEMENT CONNECTOR DETAIL.
4. CLASS B PATCH SHALL BE MILLED IN ACCORDANCE WITH BD-33.

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	DRAWN - SLASHOCK	REVISED -
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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
PAVEMENT & GRADING DETAIL**

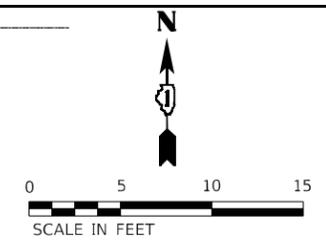
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	18
			CONTRACT NO. 62H25	
ILLINOIS FED. AID PROJECT				

EXIST. R.O.W.

EXISTING CURB RAMP TO REMAIN, ADA COMPLIANT PER SURVEY AND RECENT SURFACING PLANS

THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)



E. LEG CROSSING 2ND AVE			
POINT	STATION	OFFSET	ELEV.
A	50+42.46	26.42' RT	(805.75)
B	50+40.33	32.39' RT	(805.69)
C	50+25.64	26.20' RT	806.18
D	50+25.35	32.20' RT	806.11
E	50+12.13	25.65' RT	806.15
F	50+13.18	31.50' RT	806.08
G	50+10.60	31.50' RT	806.03
H	50+09.69	26.50' RT	806.09
I	50+09.69	31.50' RT	806.03
J	50+02.69	26.50' RT	806.42
K	50+02.69	31.50' RT	806.32
L	49+89.58	26.50' RT	806.52
M	49+89.58	31.50' RT	806.42
N	49+59.94	25.03' RT	(806.30)
O	49+59.71	30.03' RT	(806.21)

W. LEG SIDEWALK			
POINT	STATION	OFFSET	ELEV.
Q	49+79.46	23.92' LT	806.65
R	49+80.69	18.92' LT	806.75
S	49+89.58	26.50' LT	806.58
T	49+89.58	25.75' LT	806.59
U	49+89.58	15.88' LT	806.79
V	50+10.42	26.50' LT	806.53
W	50+10.42	25.75' LT	806.54
X	50+10.42	15.88' LT	806.74
Y	50+21.42	23.92' LT	806.56
Z	50+21.54	18.92' LT	806.66

N. STATE ST (IL 23)

20+00

POT Sta 20+00.00

2ND AVE

CL 2ND AVE

CULVERT LIMIT

PR CULVERT CL

CULVERT LIMIT

EXIST. R.O.W.

PR. CONCRETE CURB, TYPE B

AGGREGATE SURFACE COURSE, TYPE B

NOTE:
THE DETECTABLE WARNING PRODUCT SHALL BE SURFACED MOUNTED.

PLAN LEGEND

- (XXX.XX) EXISTING ELEVATION
- (X.XX%) EXISTING SLOPE
- (M.E.) MATCH EXISTING
- [Pattern: Dotted] PCC SIDEWALK, 5"
- [Pattern: Stippled] BS CONCRETE WITH MODIFIED AGGREGATE GRADATION (PAID FOR AS CONCRETE SUPERSTRUCTURE)
- [Pattern: Diagonal Lines] DEPRESSED CURB AND GUTTER
- [Pattern: Grid] DETECTABLE WARNING
- [Pattern: V's] GRASS BUFFER
- [Line: Dashed] PROPOSED PERMANENT EASEMENT

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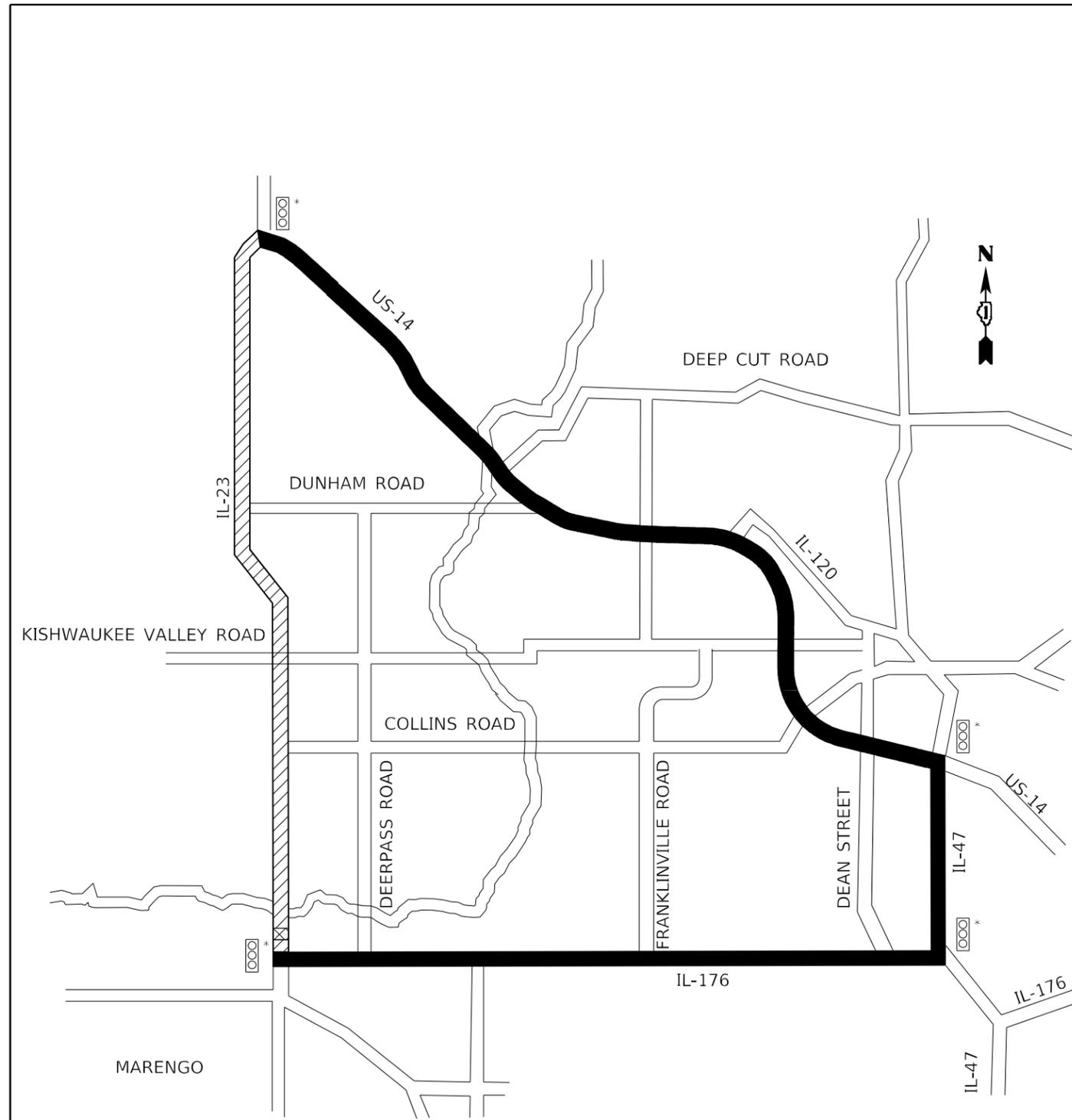
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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
ADA PLAN - IL 23 & 2ND AVE

SCALE: 1:10 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	19
			CONTRACT NO. 62H25	
ILLINOIS FED. AID PROJECT				



ROUTE OVERVIEW

GENERAL NOTES

1. DETOUR SIGNAGE SHALL NOT BE INSTALLED ON ANY MCHENRY COUNTY DIVISION OF TRANSPORTATION (MCDOT) STREET LIGHT POLES OR SIGNAL POLES. IF THEY ARE FOUND TO BE INSTALLED ON MCDOT POLES, THEY WILL BE IMMEDIATELY REMOVED.
2. DETOUR SIGNAGE SHALL NOT BLOCK ANY MCDOT SIGNS AND CANNOT USE THE MCDOT SIGN POSTS.
3. SIGN POSTS SHALL BE INSTALLED AT LEAST TWELVE (12) FEET FROM THE EDGE OF THE MAINLINE ROADWAY (WHITE PAINTED EDGELINE)
4. CONTACT AND NOTIFY THE MCHENRY COUNTY DIVISION OF TRANSPORTATION (MCDOT) AT (815) 334-4960 AT LEAST 48 HOURS IN ADVANCE OF PLACING SIGNAGE ALONG THE COUNTY HIGHWAY(S)
5. DETOUR SIGN INSTALLATION CONTRACTOR SHALL CALL JULIE FOR UTILITY LOCATES. CONTACT JULIE AT (800) 892-0123.
6. FOLLOW DISTRICT ONE DETAIL TC 21 FOR ADDITIONAL INFORMATION.
7. DETOUR SIGNING ARE SUPPOSED TO BE ONLY DURING PERIODS WHEN DETOUR IS IN EFFECT. ALL CONFLICTING SIGNING SHALL BE COVERED.
8. THIS DETOUR AND ALL DETOUR SIGNS SHOWN HERE, WILL BE PAID AS "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)" UNLESS OTHERWISE NOTED.
9. PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES AND SHALL FOLLOW THE TEMPORARY PEDESTRIAN ROUTE DETAIL AND HIGHWAY STANDARD 701801.

LEGEND

① M4-8-2412	DETOUR	⑩ W20-2-4848	DETOUR AHEAD	⑭ R11-2-4830	ROAD CLOSED
② M1-50-2424	IL 23	⑪ W20-3-4848	ROAD CLOSED AHEAD	⑮ M4-10L-4818	← DETOUR
③ M3-1-2412	NORTH	⑫ W20-3-4848	ROAD CLOSED 500 FT	⑯ M4-10R-4818	DETOUR →
④ M3-3-2412	SOUTH	⑬ M4-8A-2418	END DETOUR	⑰ R11-4-6030	ROAD CLOSED TO THRU TRAFFIC
⑤ M5-1L-2115	↙	⑱ SPECIAL (5'-6" x 3')		⑲ R11-3A-6030	ROAD CLOSED 10 MILES AHEAD LOCAL TRAFFIC ONLY
⑥ M5-1R-2115	↘	⑳ SPECIAL (5'-6" x 4')			ROAD WILL BE CLOSED FROM MMM ## [ⓐ] THRU MMM [ⓑ]
⑦ M6-1-2115	←				
⑧ M6-1-2115	→				
⑨ M6-3-2115	↑				

DETOUR ROUTE

PARTIALLY CLOSED PORTION

COMPLETELY CLOSED PORTION

TYPE III BARRICADE

SIGNALIZED INTERSECTION REQUIRING TEMPORARY TRAFFIC SIGNAL TIMING

TEMPORARY TRAFFIC SIGNAL TIMING INTERSECTIONS:
 IL-23 AND IL-176
 IL-176 AND IL-47
 IL-47 AND US-14
 US 14 AND IL-23

5" BLACK LETTERS ON ORANGE BACKGROUND

7" BLACK LETTERS ON ORANGE BACKGROUND

ⓐ OVERLAY PANEL "A" TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION (I.E. "FROM APR 2")

ⓑ OVERLAY PANEL "B" TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR (I.E. "THRU JULY")

■ TO BE PAID FOR AS TEMPORARY INFORMATION SIGN

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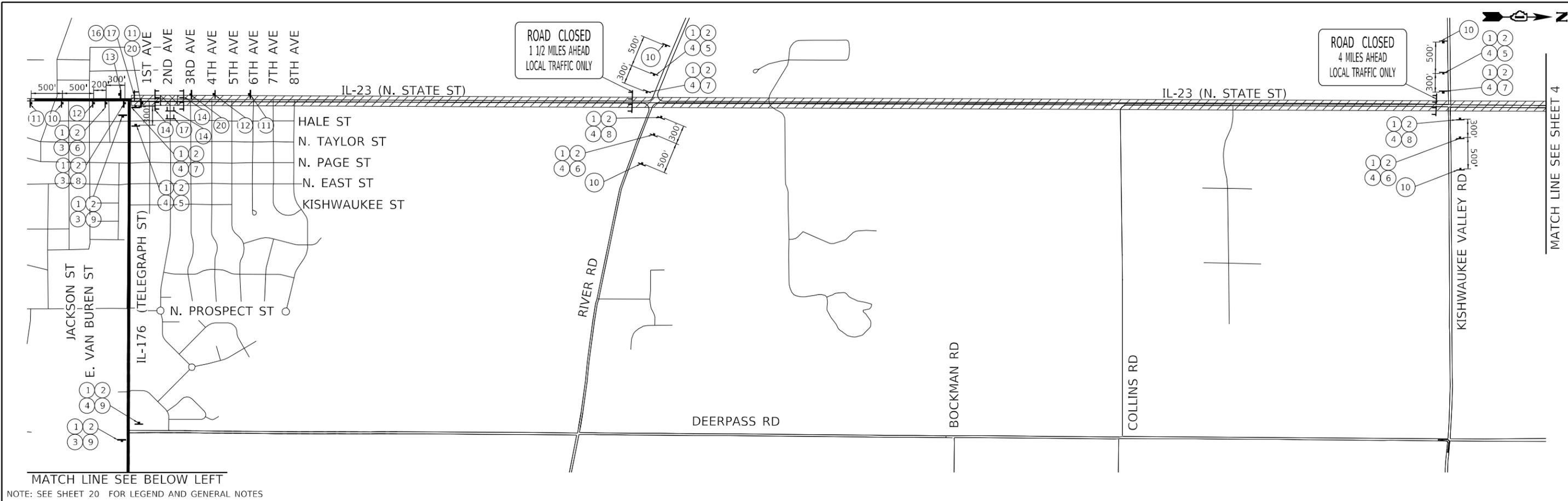
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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
PROPOSED DETOUR & SIGNING**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	20
			CONTRACT NO. 62H25	
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE BELOW LEFT
NOTE: SEE SHEET 20 FOR LEGEND AND GENERAL NOTES



MATCH LINE SEE ABOVE LEFT
NOTE: SEE SHEET 20 FOR LEGEND AND GENERAL NOTES

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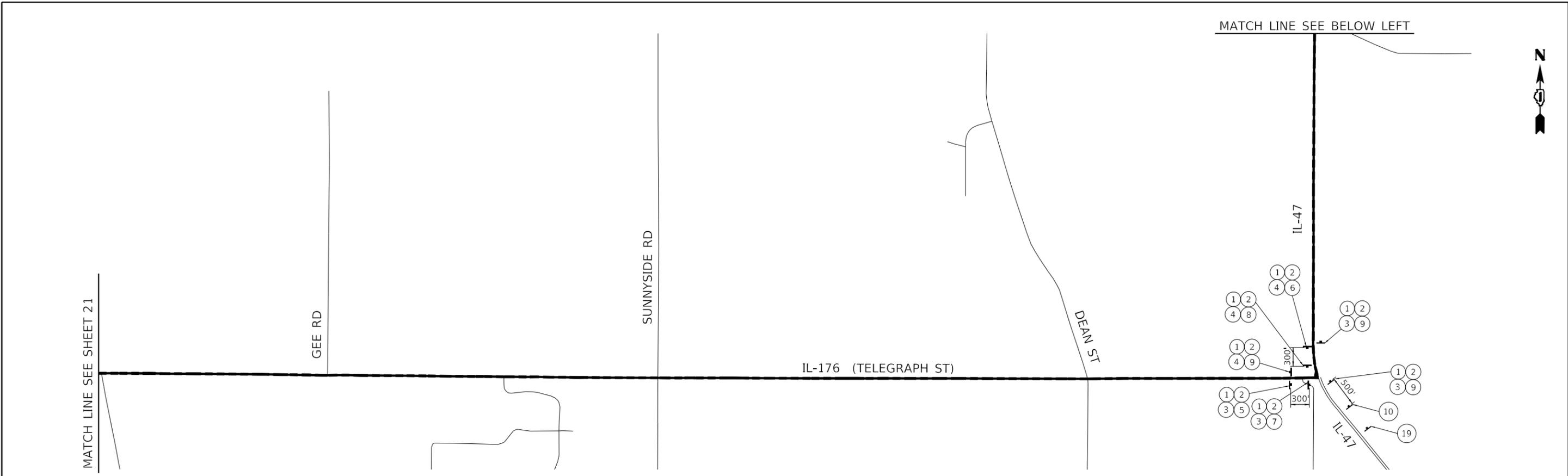


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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176) PROPOSED DETOUR & SIGNING			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 324	SECTION 2018-091-CR	COUNTY MCHENRY	TOTAL SHEETS 45	SHEET NO. 21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	



NOTE: SEE SHEET 20 FOR LEGEND AND GENERAL NOTES



NOTE: SEE SHEET 20 FOR LEGEND AND GENERAL NOTES

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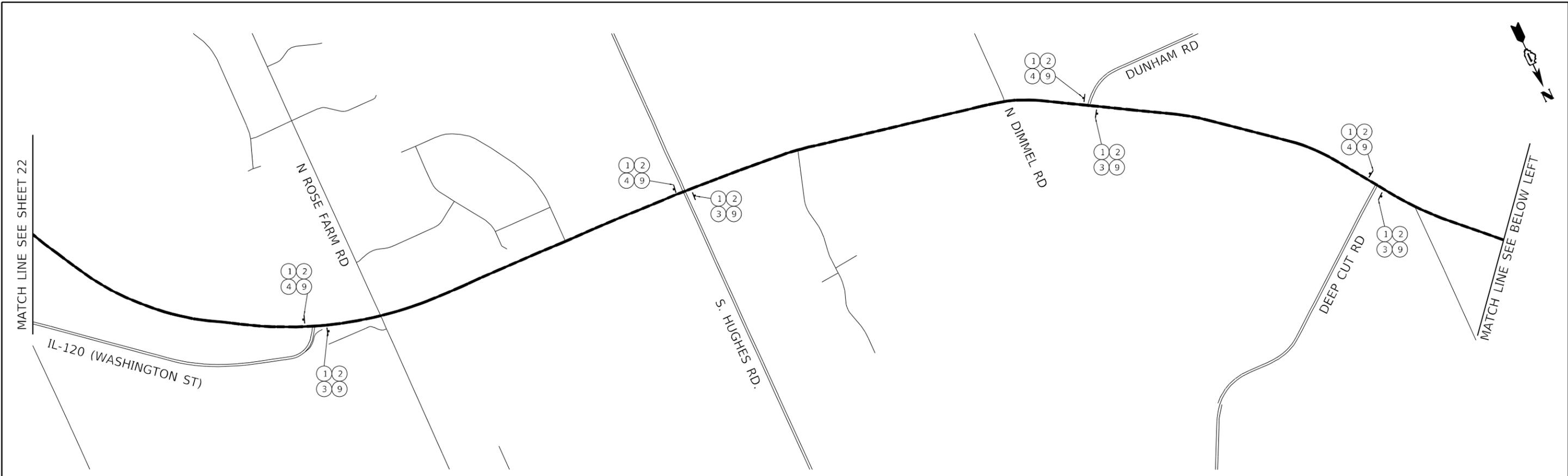


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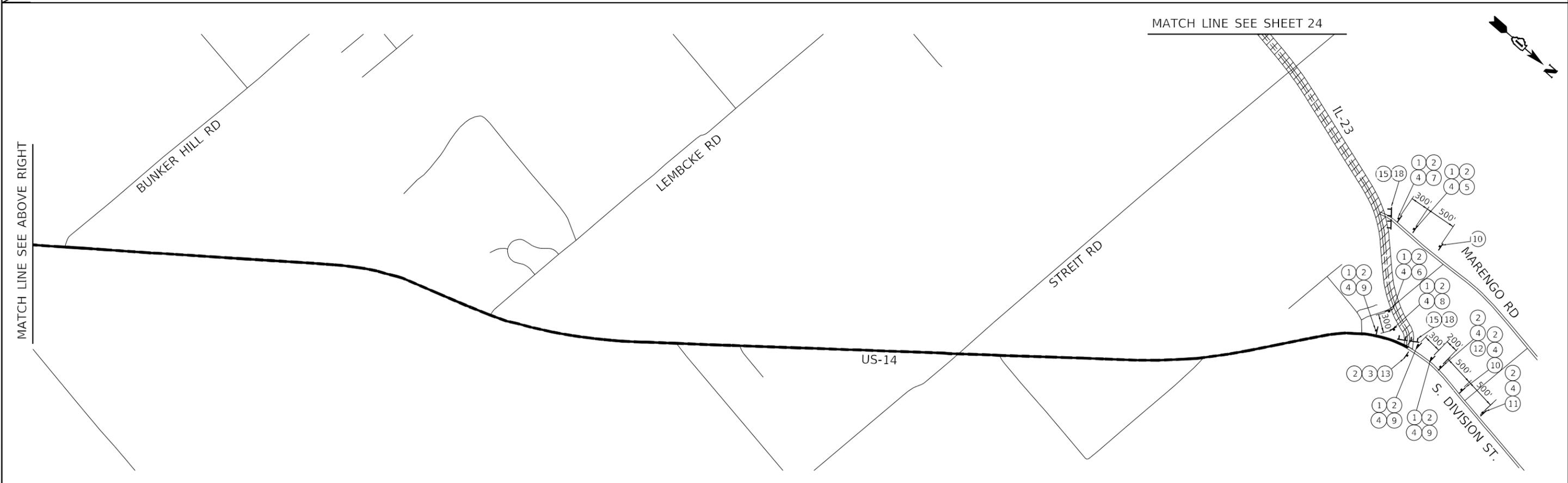
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176) PROPOSED DETOUR & SIGNING			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 324	SECTION 2018-091-CR	COUNTY MCHENRY	TOTAL SHEETS 45	SHEET NO. 22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	



NOTE: SEE SHEET 20 FOR LEGEND AND GENERAL NOTES



NOTE: SEE SHEET 20 FOR LEGEND AND GENERAL NOTES

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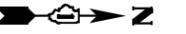
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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
PROPOSED DETOUR & SIGNING**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 324	SECTION 2018-091-CR	COUNTY MCHENRY	TOTAL SHEETS 45	SHEET NO. 23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

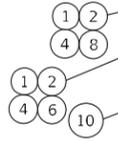


MATCH LINE SEE SHEET 21

N OLBRICH RD

ROAD CLOSED
6 MILES AHEAD
LOCAL TRAFFIC ONLY

IL-23 (N. STATE ST)



300'

500'

DURNHAM RD

BUNKER HILL RD

LEMBCKE RD

MATCH LINE SEE SHEET 23

NOTE: SEE SHEET 20 FOR LEGEND AND GENERAL NOTES

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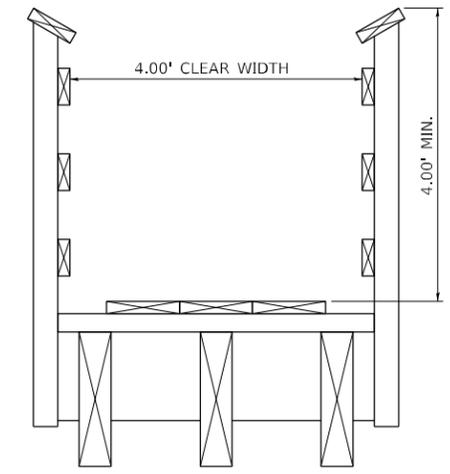
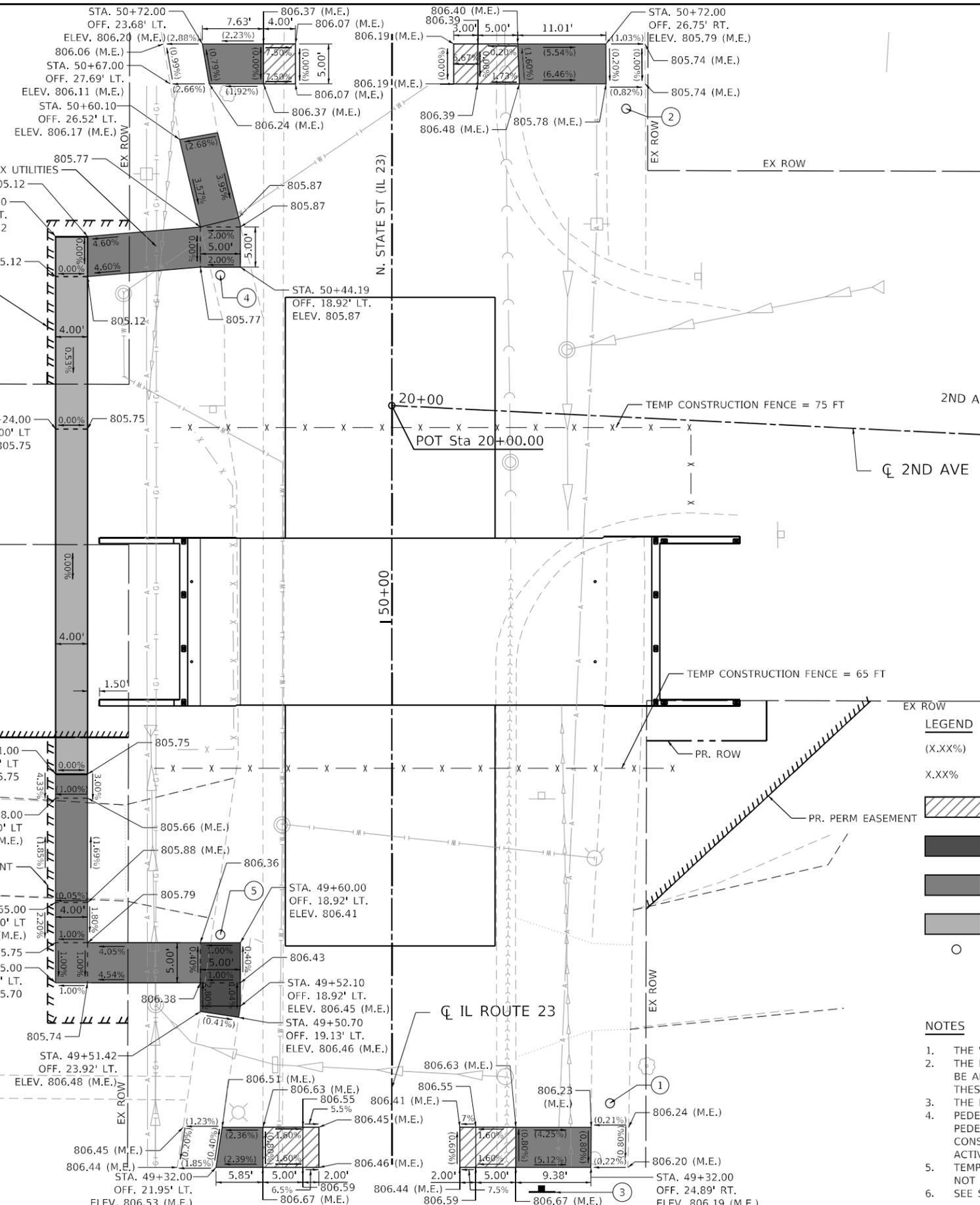
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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
PROPOSED DETOUR & SIGNING

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	24
CONTRACT NO. 62H25			ILLINOIS FED. AID PROJECT	



**TEMPORARY BOARDWALK WITH
TEMPORARY PEDESTRIAN RAILING**

- LEGEND**
- (X.XX%) EXISTING SIDEWALK SLOPE
 - X.XX% PROPOSED SIDEWALK SLOPE
 - [Hatched Box] TEMPORARY SIDEWALK RAMP
 - [Dark Grey Box] 5" PCC SIDEWALK (MATCH PROPOSED PLAN)
 - [Medium Grey Box] 4" TEMPORARY SIDEWALK
 - [Light Grey Box] TEMPORARY BOARDWALK WITH TEMPORARY PEDESTRIAN RAILING
 - TYPE I BARRICADE

- N.T.S.
- ① [Sign: Sidewalk Closed Cross Here] R9-11A(L)-2412
 - ② [Sign: Sidewalk Closed Cross Here] R9-11A(R)-2412
 - ③ [Sign: Pedestrian Crossing] W11-2-3030
 - [Sign: Sidewalk Closed Cross Here]
 - ④ [Sign: Detour Right] M4-9B(R)-3024
 - ⑤ [Sign: Detour Left] M4-9B(L)-3024

- NOTES**
- THE WIDTHS SHOWN IN THESE PLANS SHALL BE THE MINIMUM CLEAR WALKWAY WIDTH ALLOWED.
 - THE LENGTHS AND ELEVATIONS SHOWN FOR TEMPORARY SIDEWALK AND TEMPORARY BOARDWALK MAY BE ALTERED BY THE CONTRACTOR. THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL PAYMENT FOR THESE MODIFICATIONS.
 - THE MAXIMUM RUNNING SLOPE SHALL BE 5%. THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.
 - PEDESTRIAN ACCESS SHALL BE PROVIDED FOR THE LENGTH OF THE CONTRACT. THE TEMPORARY PEDESTRIAN ROUTE SHALL REMAIN OPEN UNTIL THE SIDEWALK ON THE EAST SIDE OF IL 23 HAS BEEN CONSTRUCTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PHASING OTHER CONSTRUCTION ACTIVITIES IN ORDER TO PROVIDE PEDESTRIAN ACCESS.
 - TEMPORARY CONSTRUCTION FENCE SHALL BE PLACED ACROSS IL 23 WHEN WORKERS ARE NOT PRESENT.
 - SEE SHEET 21 FOR ROAD CLOSURE INFORMATION.



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	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS 23 OVER DITCH (0.1 MILES NO IL 176)
TEMPORARY PEDESTRIAN ROUTE DETAIL**

SCALE: 1:15 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 324	SECTION 2018-091-CR	COUNTY MCHENRY	TOTAL SHEETS 45	SHEET NO. 25
CONTRACT NO. 62H25				
ILLINOIS FED. AID PROJECT				

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EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS, ON DOWNSTREAM AREAS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
5. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
6. ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA WILL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH GENERAL EARTHWORK ON A PROJECT THE CONTRACTOR WILL OBTAIN APPROVAL OF HIS PROPOSED EARTHWORK AND STABILIZATION SCHEDULE.
7. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OR GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
8. DITCHES, PERIMETER EROSION BARRIER, INLET FILTERS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. PERIMETER EROSION BARRIER AND INLET FILTERS WILL BE CLEANED WHEN THEY ARE 50% FILLED, THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
9. ALL EROSION AND SEDIMENT CONTROL 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>).
10. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL CHECK EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY, DURING THE WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
12. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COSTS OF THE CONTROLS.
13. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:
 - (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
 - (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH.
 - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
14. INLET FILTERS SHALL BE APPLIED AT EACH EXISTING AND PROPOSED INLETS.
15. AVOID USING THE INLET AND PIPE PROTECTION SHOWN ON THE HIGHWAY STANDARD SHEETS 280001. STRAW BALES AND SILT FENCE SHOULD NOT BE USED AS INLET AND PIPE PROTECTION. INLET AND PIPE PROTECTION SHOULD BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET AND WILL BE INSTALLED AT ALL STORM SEWER AND CULVERTS. INLET FILTERS, AS SPECIFIED IN ARTICLE 1081.15(H) OF THE STANDARD SPECIFICATIONS (CURRENT EDITION) WILL BE INSTALLED AT ALL INLETS, CATCH BASINS, AND MANHOLES FOR THE DURATION OF CONSTRUCTION. INLET FILTERS WILL BE CLEANED ON A REGULAR BASIS. ENSURE PROPER QUANTITIES OF INLET FILTERS. DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET ARE INCLUDED IN THE CONTRACT.
16. 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, PARTICULARLY WHEN RAIN IS FORECASTED SO THAT FLOW WILL NOT ERODE. LACK OF AN APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
17. 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.
18. 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 EROSION AND SEDIMENT CONTROL STRATEGY.
19. 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. 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.

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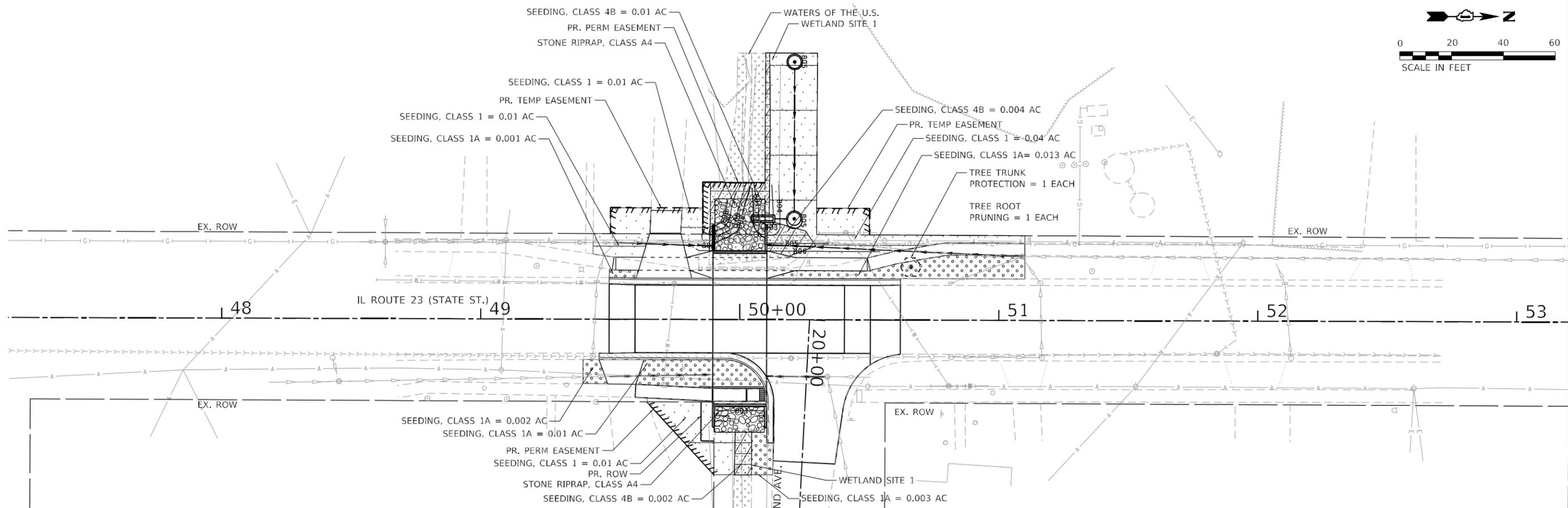
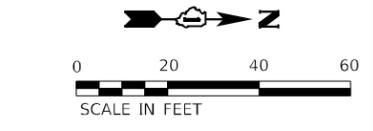
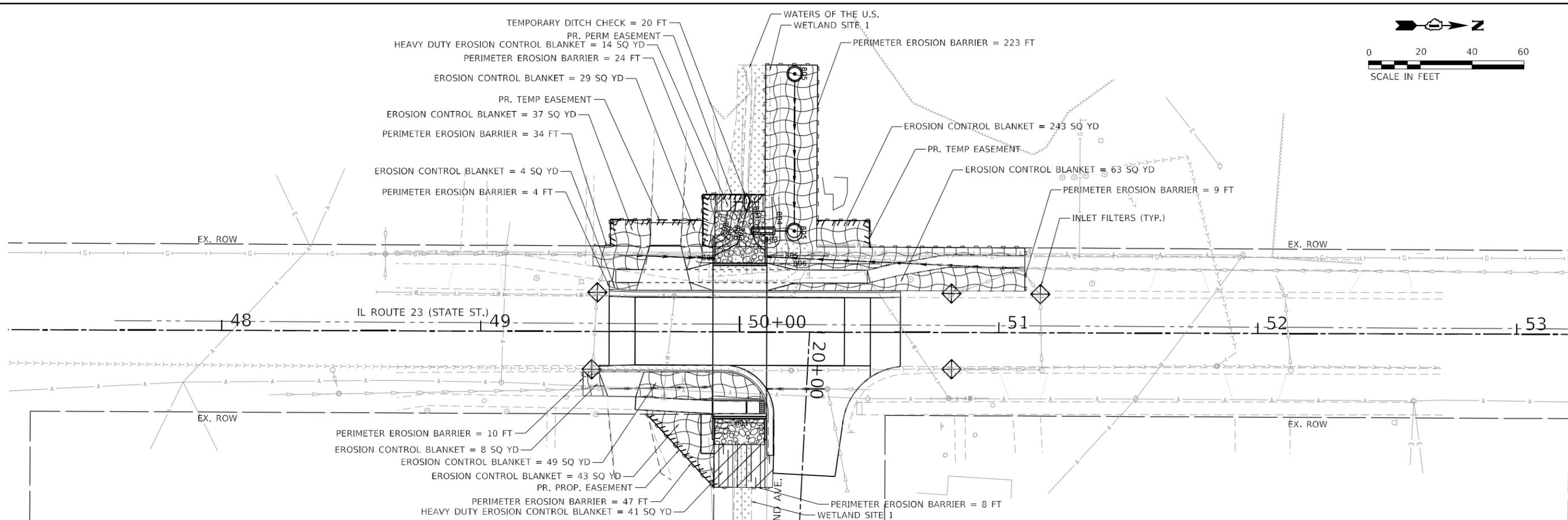
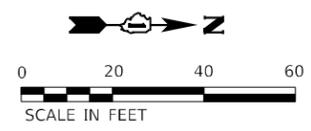
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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
EROSION AND SEDIMENT CONTROL**

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	26
			CONTRACT NO. 62H25	
		ILLINOIS FED. AID PROJECT		



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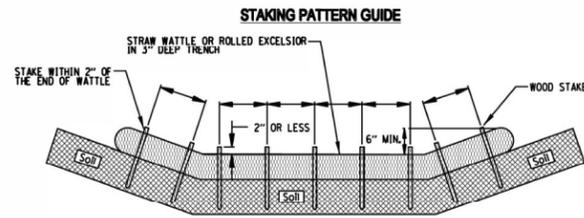
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL &
LANDSCAPING PLAN**

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

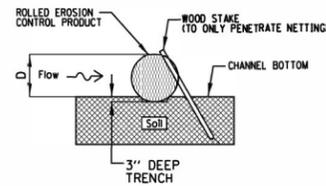
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	27
			CONTRACT NO. 62H25	
ILLINOIS FED. AID PROJECT				

ROLLED EROSION CONTROL PRODUCTS



- NOTES:
1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
 2. 4" SPACING FOR WATTLES.
 3. 2" SPACING FOR ROLLED EXCELSIOR.
 4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

STAKE DETAIL



- NOTES:
1. DRAWINGS ARE NOT TO SCALE.
 2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
 3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
 4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
 5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

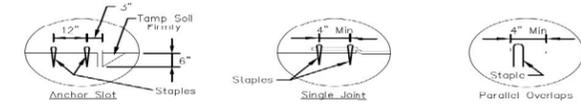
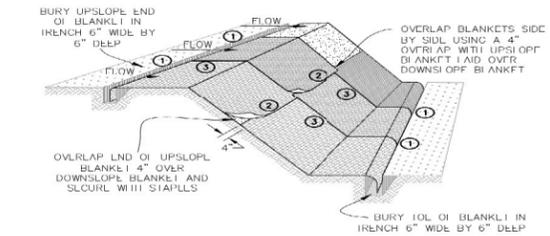
REFERENCE	
Project	
Designed	Date
Checked	Date
Approved	Date



STANDARD DWG. NO.
IUM-514
SHEET 1 OF 1
DATE 08-2-2019

TEMPORARY DITCH CHECK DETAIL

AU1UCADP006



DETAIL 1

DETAIL 2

DETAIL 3



STAPLE DETAIL

PUSH PIN DETAIL

- NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for slitted blankets. Non-slitted shall use 4 staples per s.y. of material. This equates to 200 staples with slitted blanket and 400 staples with non-slitted blanket per 100 s.y. of material.
 2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
 3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
 4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed	Date
Checked	11/2008
Approved	

EROSION CONTROL BLANKET DETAIL

MODEL Path: \\...
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USER NAME = amalla,baymundo	DESIGNED - AMB	REVISED -
	DRAWN - AMB	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MM	REVISED -
PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS

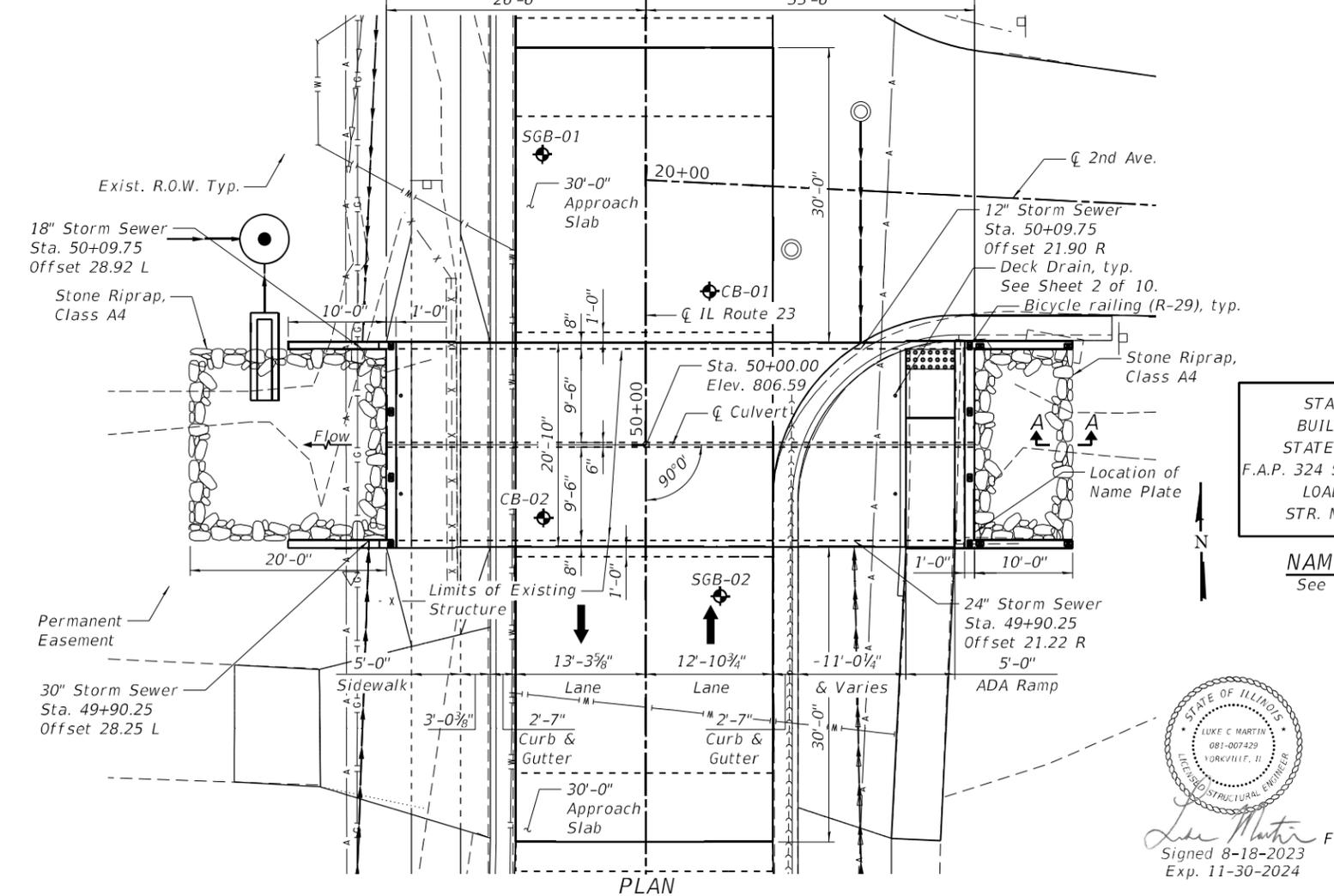
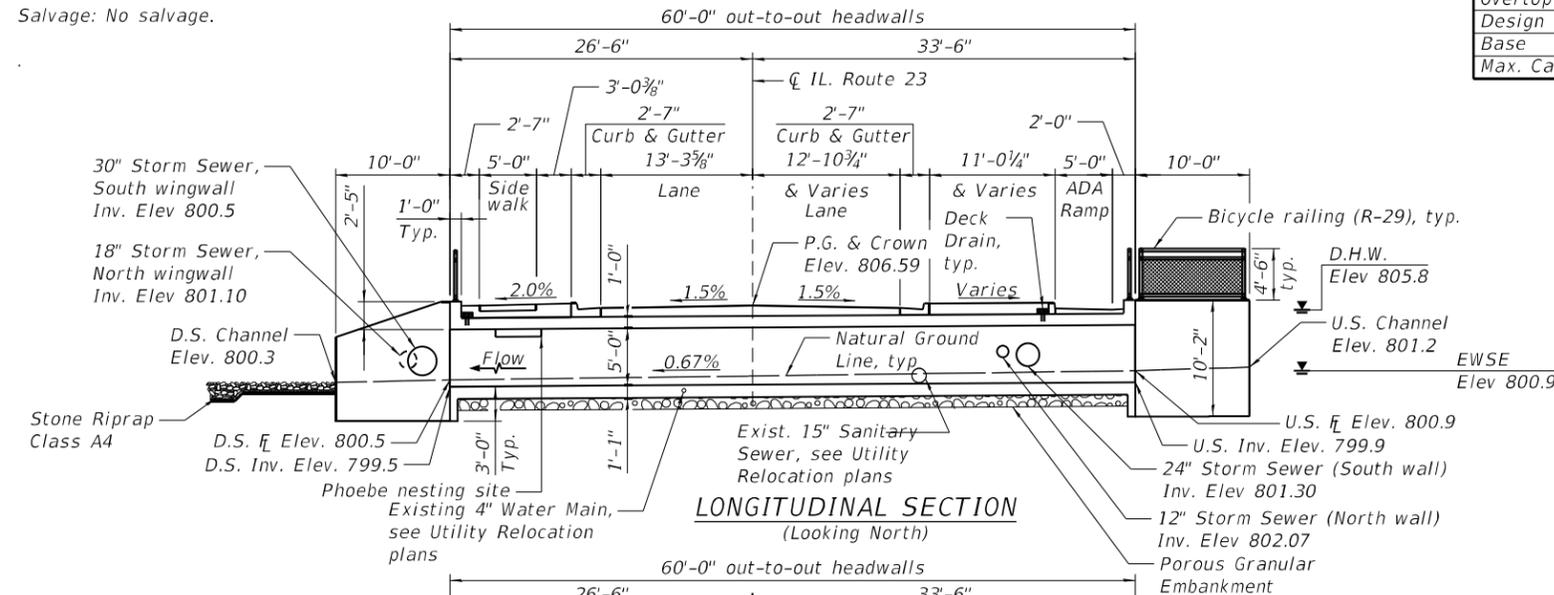
SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

Bench Mark: BM "16" - Chiseled square in Easterly concrete base of light pole West side of IL 23 ± 90' South of 2nd Ave. Elevation 806.805'.

Existing Structure: S.N. 056-0200 was originally constructed at an unknown time circa 1930 as a cast-in-place concrete, twin-cell box culvert 9'-0" wide, 3'-0" high (8'-10 1/2" x 3'-1" South barrel and 9'-5" x 3'-1" North barrel), and 52'-0" long. The existing structure is to be replaced with a cast-in-place double cell box culvert 9'-6" wide by 5'-0" high and 60'-0" long. The replacement will utilize a full closure and traffic detouring.

Salvage: No salvage.

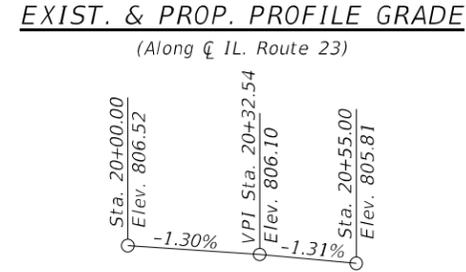
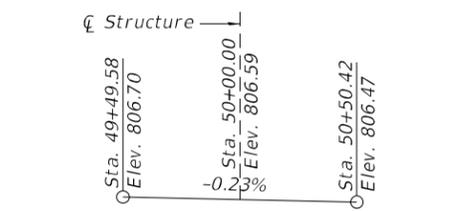


WATERWAY INFORMATION

Drainage Area = 5.3 Sq. Mi. Existing Low Grade Elev. 806.4 @ Sta. 51+00
Proposed Low Grade Elev. 806.4 @ Sta. 51+00

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Overtop Exist.	10	410	56.4	76	805.55	.89	.36	806.44	805.91
Overtop Prop.	25	454	56.4	76	805.65	.94	.54	806.59	806.19
Design	50	526	56.4	76	805.80	.93	.69	806.73	806.49
Base	100	734	56.4	76	806.20	.76	.64	806.96	806.84
Max. Calc.	500	919	56.4	76	806.47	.61	.52	807.08	806.99

2-Yr. Flow Rate = 215 ft³/s
10-year Velocity through Existing Culvert = 7.3 ft/s
10-year Velocity through Proposed Culvert = 5.4 ft/s



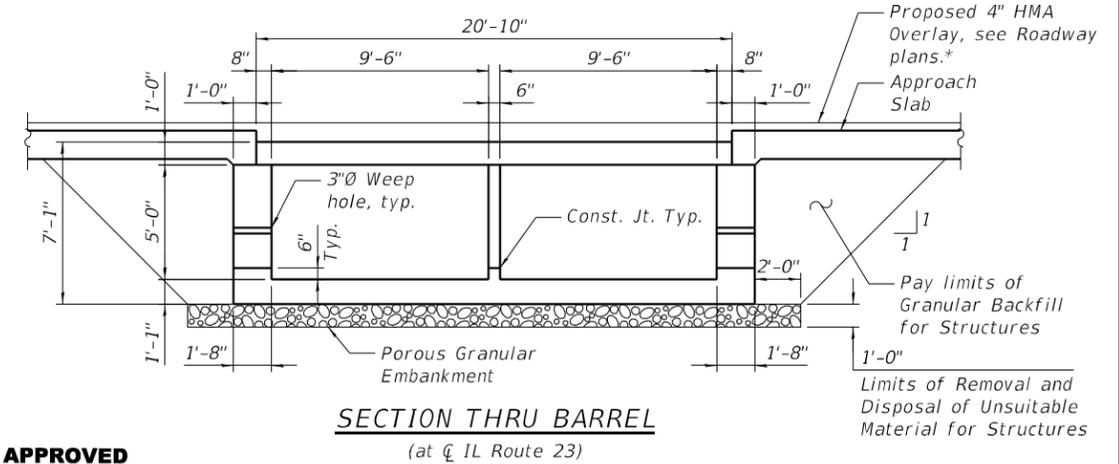
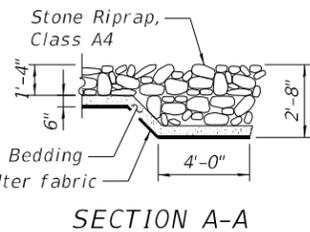
Note: Profile grade elevations based on existing survey. See Plan and Profile for additional information.

STA. 50+00.00
BUILT 202_ BY
STATE OF ILLINOIS
F.A.P. 324 SEC. 2018-091-CR
LOADING HL-93
STR. NO. 056-0344

NAME PLATE
See Std. 515001

APPROVED
For Structural Adequacy Only
[Signature]
Engineer of Bridges & Structures

STATE OF ILLINOIS
LUKE C. MARTIN
081-007429
YORKVILLE, IL
LICENSED STRUCTURAL ENGINEER
[Signature]
Signed 8-18-2023
Exp. 11-30-2024



LEGEND

- ▲— Ex. Aerial Lines
- Ex. Storm Sewer
- >>>— Ex. Underground Sanitary Sewer
- G— Ex. Underground Gas Line
- W— Ex. Underground Water
- |— Ex. ROW Line
- - - - - Fence
- - - - - Ditch Line
- TTT Temp. Easement
- Prop. Storm Sewer
- ◆ Soil Boring Locations

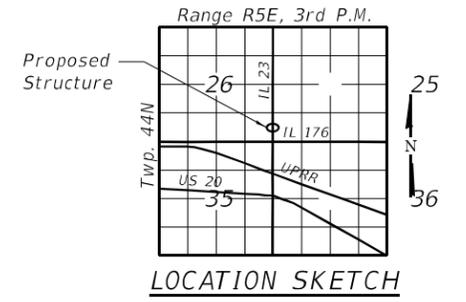
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)	Upstream	Downstream
		796.9

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi (Culvert)
f'c = 4,000 psi (Culvert Top Slab) - Class BS
f'c = 4,000 psi (Approach Slab)
fy = 60,000 psi (Reinforcement)

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



GENERAL PLAN & ELEVATION
IL. 23 OVER DRAINAGE DITCH
F.A.P. 324 SEC. 2018-091-CR
MCHENRY COUNTY
STATION 50+00
STRUCTURE NO. 056-0344

	USER NAME = amalla.baymundo	DESIGNED - EG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 056-0344	F.A.P. RTE. 324	SECTION 2018-091-CR	COUNTY MCHENRY	TOTAL SHEETS 45	SHEET NO. 29
	PLOT SCALE = 16,0000' / in.	CHECKED - EG	REVISED -			CONTRACT NO. 62H25				
	PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -			ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

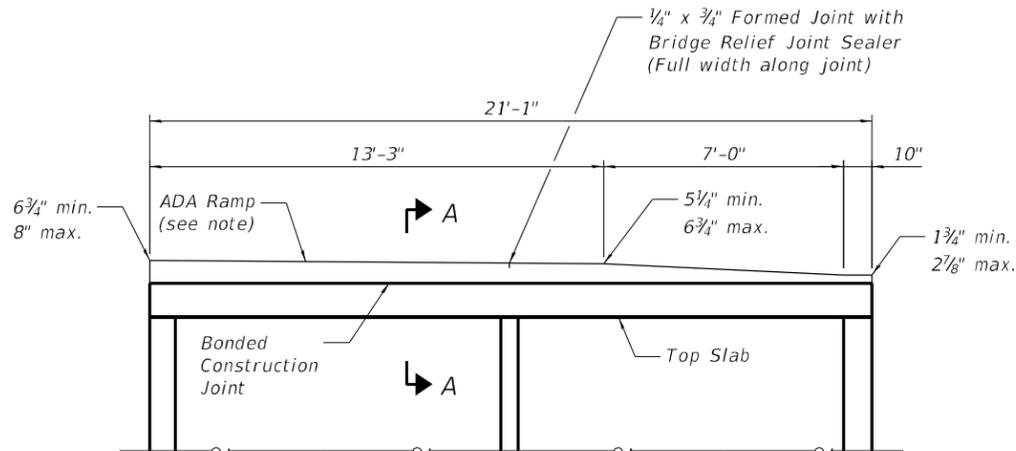
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
4. Protective coat shall be applied to the top of culvert slab, ADA Ramp, approach slab, and top and inside face of wingwalls.
5. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
6. Precast option is not allowed.
7. For proposed grading around wingwalls, see Pavement & Grading Detail in Roadway Plans.

INDEX OF SHEETS

- | | |
|------|---------------------------------|
| 1 | General Plan & Elevation |
| 2 | General Data |
| 3-4 | Culvert Details |
| 5 | Top of Approach Slab Elevations |
| 6 | Approach Slab Plan |
| 6 | Approach Slab Details |
| 8 | Bicycle Railing |
| 9-10 | Soil Boring Logs |

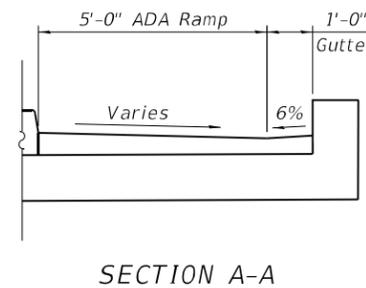
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	58
Stone Riprap, Class A4	Sq Yd	65
Filter Fabric	Sq Yd	65
Removal Of Existing Structures	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	58
Concrete Structures	Cu Yd	16.2
Concrete Superstructure	Cu Yd	2.2
Protective Coat	Sq Yd	370
Concrete Superstructure (Approach Slab)	Cu Yd	72.8
Reinforcement Bars, Epoxy Coated	Pound	59,360
Bicycle Railing	Foot	62
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	139.6
Granular Backfill For Structures	Cu Yd	136

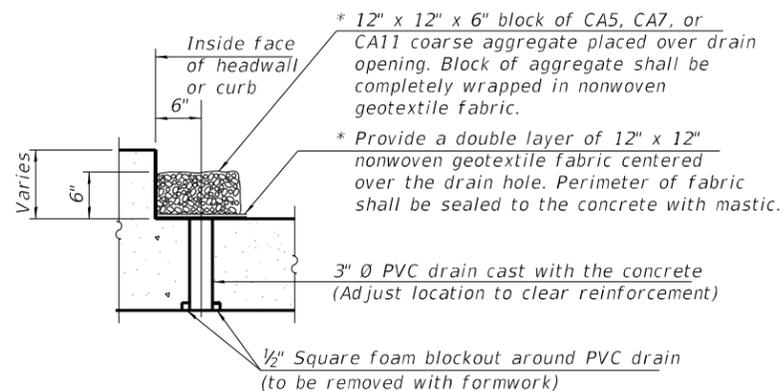


Note: ADA Ramp shall be paid as Concrete Superstructure. The concrete shall be class B5 with a Coarse Aggregate Gradation of CA 13, CA 14, or CA 16. See ADA Plan in Roadway plans for additional details.

ADA RAMP DETAIL
(Looking West)

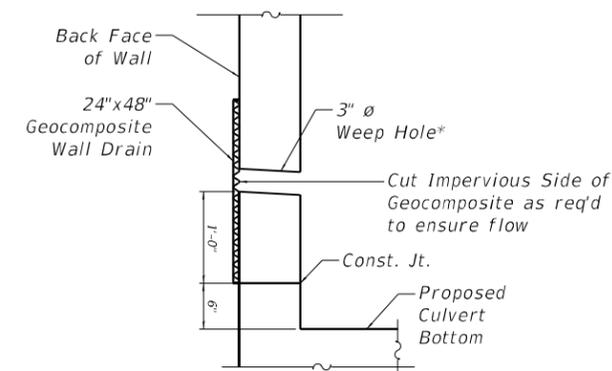


* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

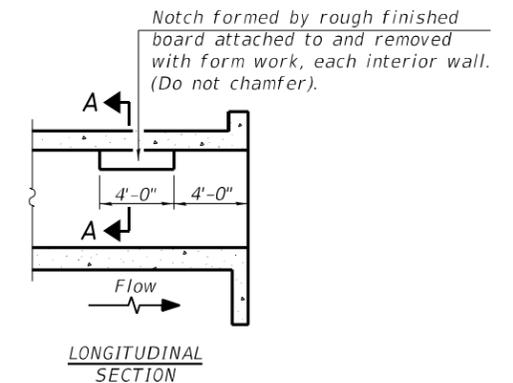


DRAIN DETAIL

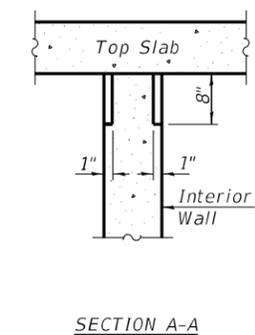
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)



WEEP HOLE DRAIN DETAIL
*Cost Included in Concrete Box Culvert



LONGITUDINAL SECTION



PHOEBE NESTING SITE DETAILS
(Downstream End Only)

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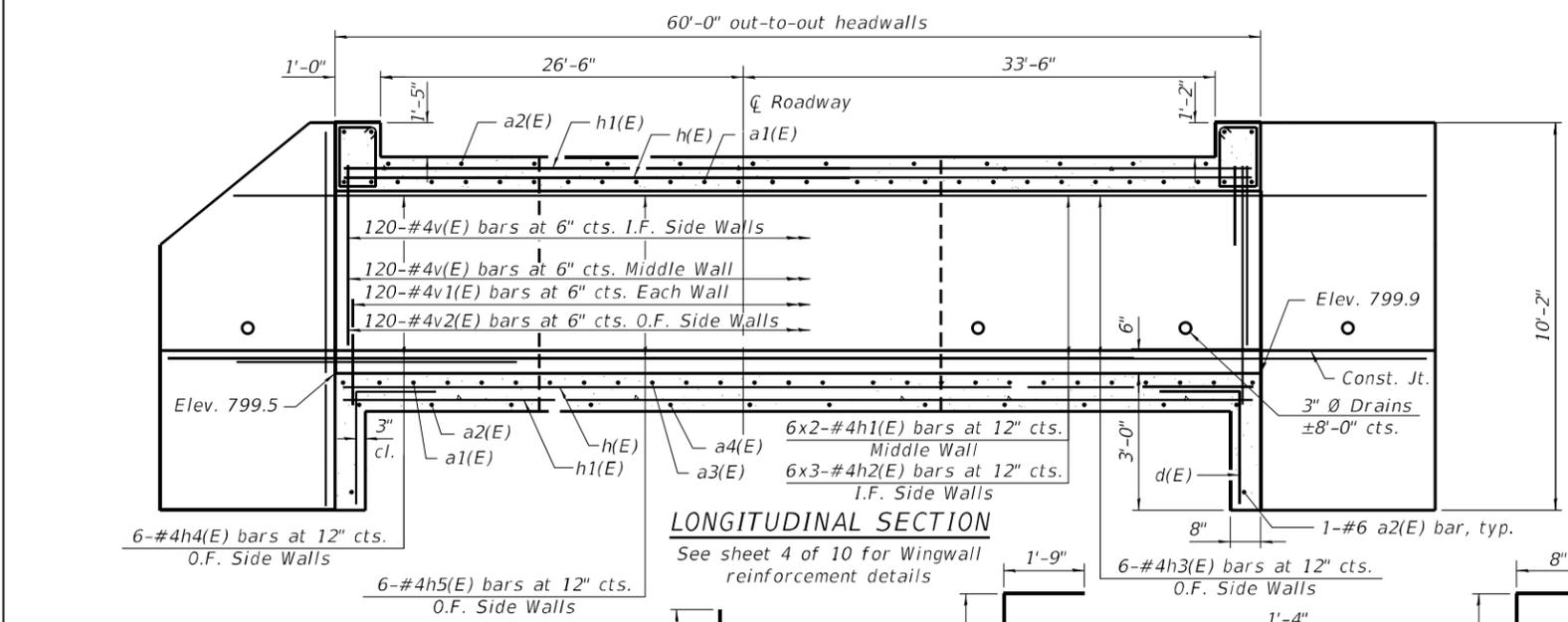
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	DATE - 8/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

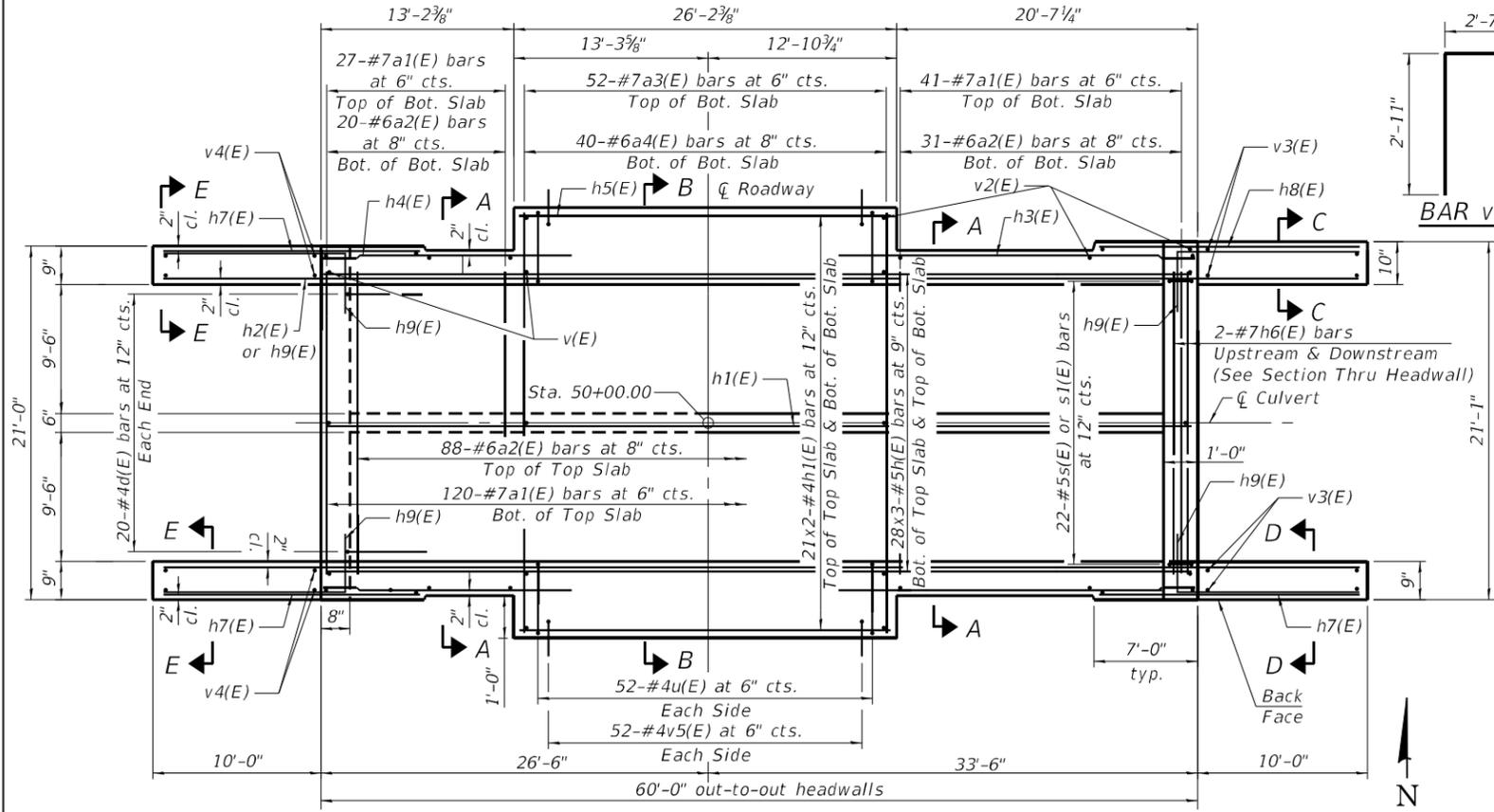
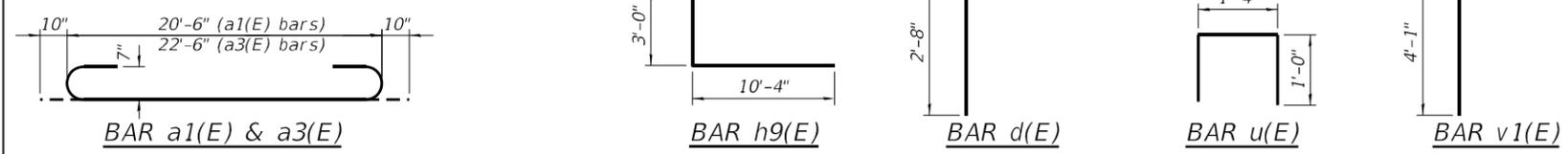
GENERAL DATA
STRUCTURE NO. 056-0344

SHEET 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	



LONGITUDINAL SECTION
See sheet 4 of 10 for Wingwall reinforcement details



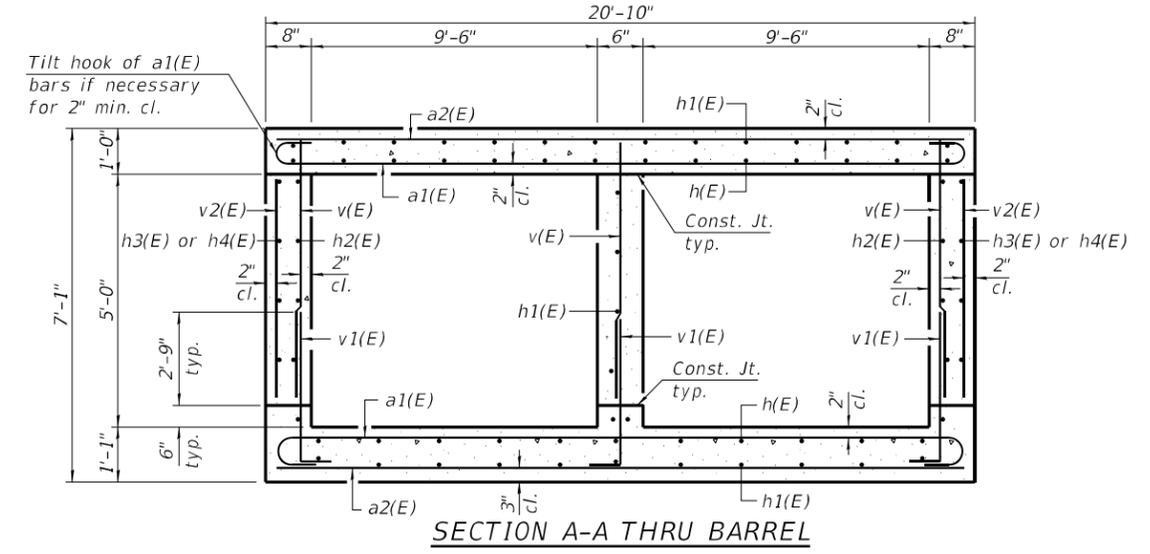
SHOWING TOEWALL

PLAN

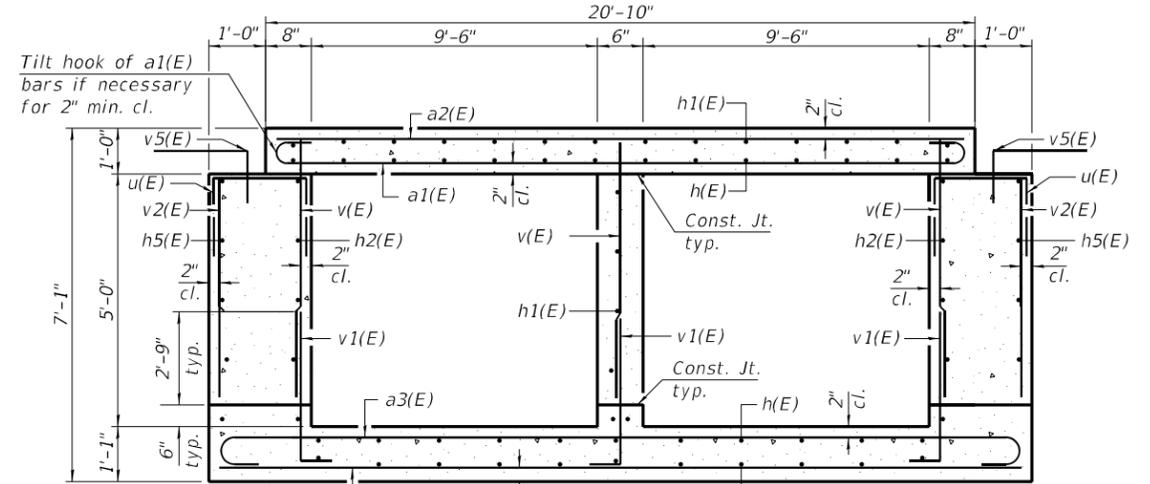
SHOWING HEADWALL

MINIMUM BAR LAP

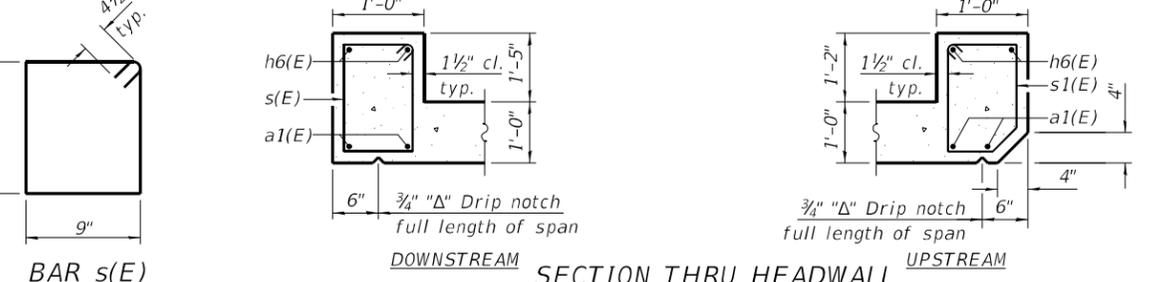
#4 bar = 2'-0"
#5 bar = 2'-6"



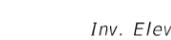
SECTION A-A THRU BARREL



SECTION B-B THRU BARREL



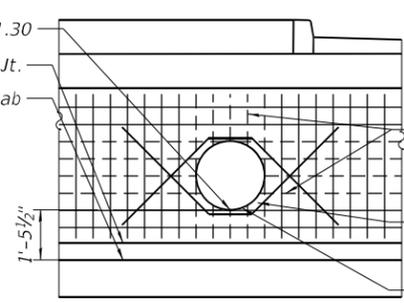
SECTION THRU HEADWALL



BAR s(E)

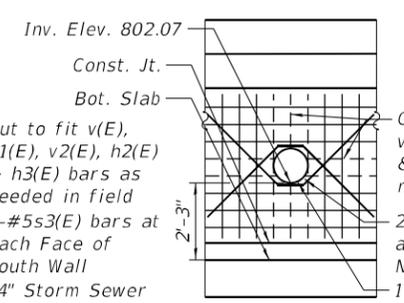


BAR s1(E)



STORM SEWER - SOUTH WALL

(Inside Face - Looking South)



STORM SEWER - NORTH WALL

(Inside Face - Looking North)

**Contractor responsible for cutting and making the pipe flush with interior face of wall.

Notes:
A distance of half the length of the wingwall but not less than seven feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.



USER NAME = amalla.baymundo	DESIGNED - EG	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - LM	REVISED -
PLOT DATE = 8/22/2023	CHECKED - JM	REVISED -
	DATE - 8/18/2023	REVISED -

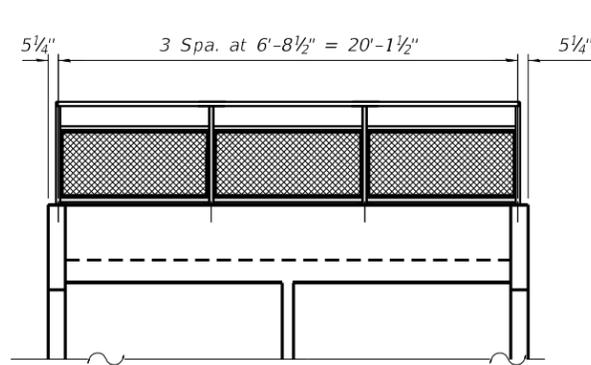
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS 1 OF 2
STRUCTURE NO. 056-0344

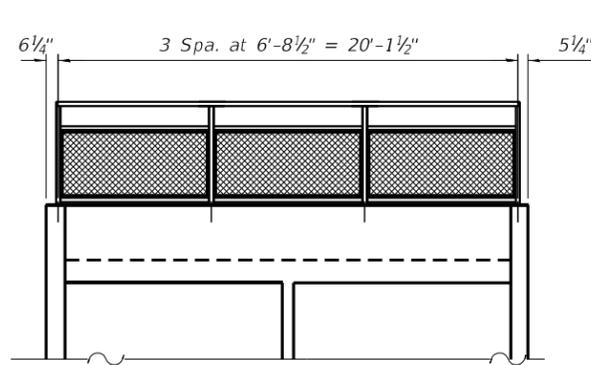
SHEET 3 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	31
CONTRACT NO. 62H25				

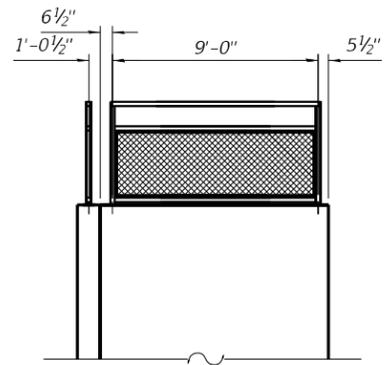
ILLINOIS FED. AID PROJECT



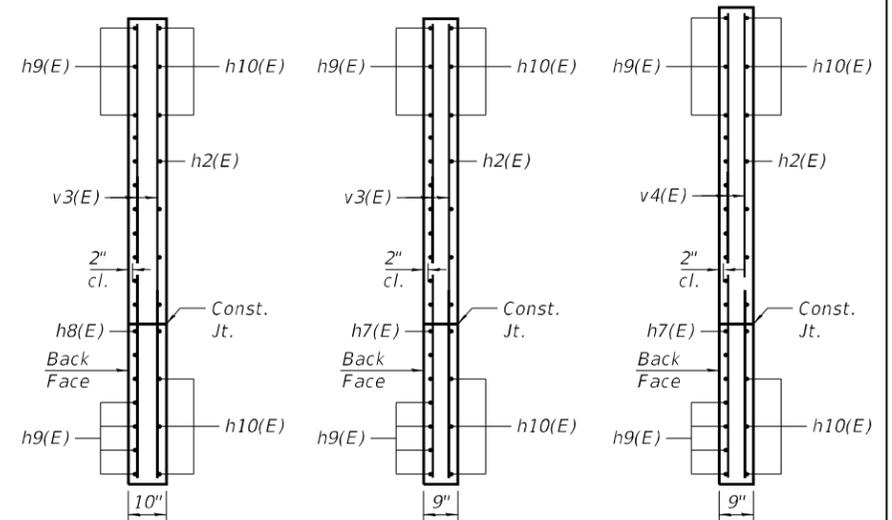
ELEVATION - WEST END
Looking West



ELEVATION - EAST END
Looking East



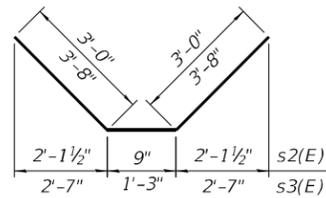
ELEVATION - EAST WINGWALLS
South Wing shown - North Wing similar



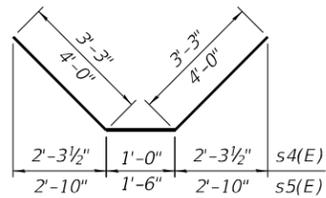
SECTION C-C

SECTION D-D

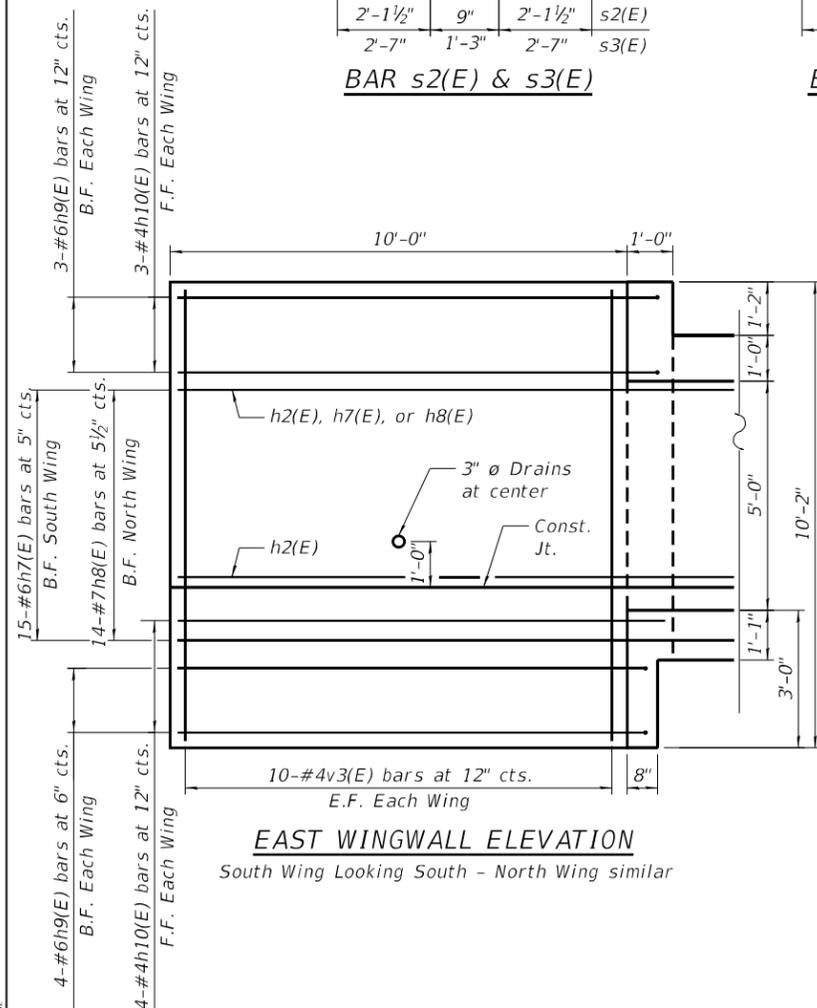
SECTION E-E



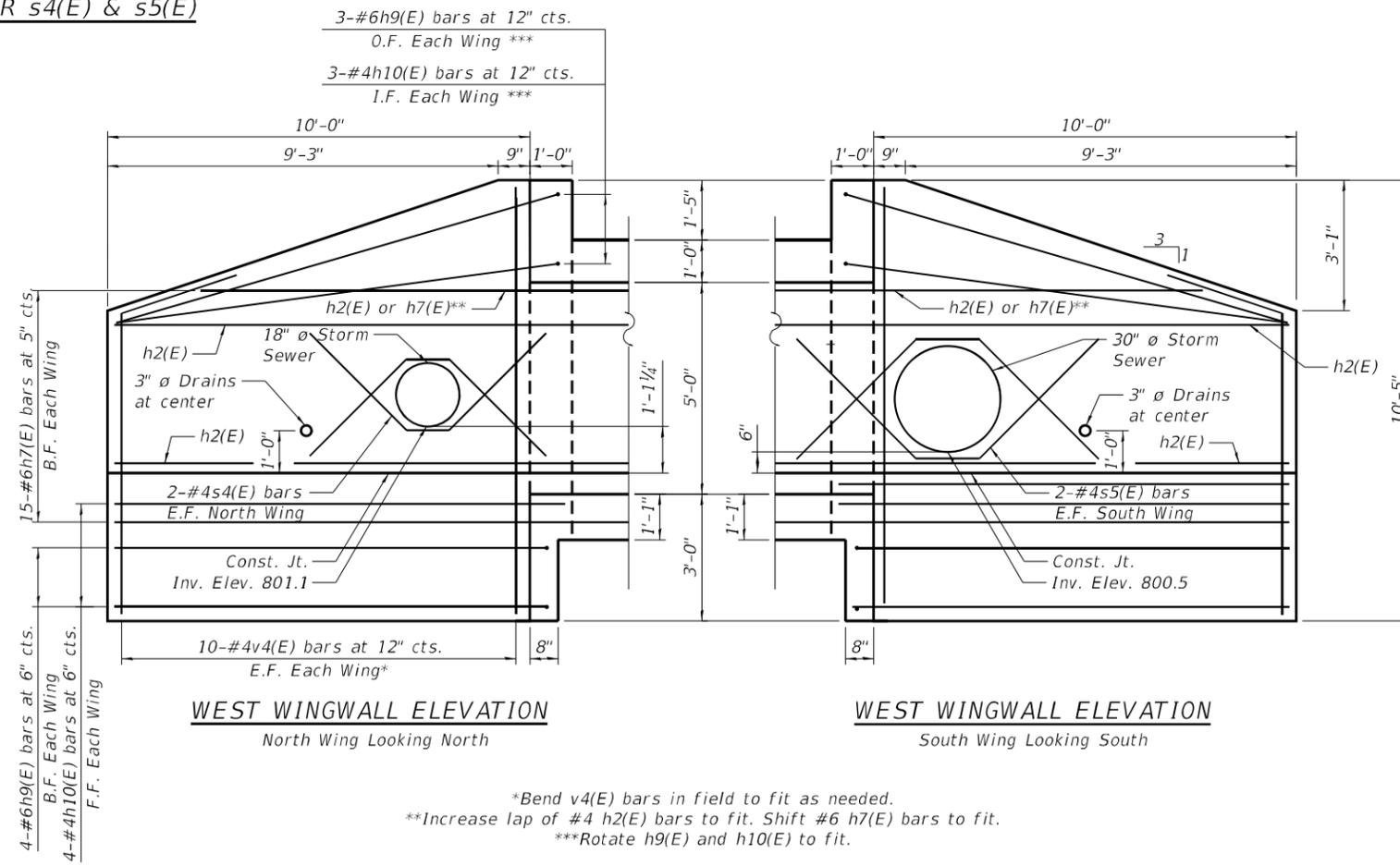
BAR s2(E) & s3(E)



BAR s4(E) & s5(E)



EAST WINGWALL ELEVATION
South Wing Looking South - North Wing similar



WEST WINGWALL ELEVATION
North Wing Looking North

WEST WINGWALL ELEVATION
South Wing Looking South

*Bend v4(E) bars in field to fit as needed.
**Increase lap of #4 h2(E) bars to fit. Shift #6 h7(E) bars to fit.
***Rotate h9(E) and h10(E) to fit.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a1(E)	188	#7	22'-2"	U	
a2(E)	141	#6	20'-6"	U	
a3(E)	52	#7	24'-2"	U	
a4(E)	40	#6	22'-6"	U	
d(E)	40	#4	4'-5"	L	
h(E)	168	#5	21'-7"	U	
h1(E)	96	#4	30'-10"	U	
h2(E)	36	#4	27'-11"	U	
h3(E)	12	#4	22'-0"	U	
h4(E)	12	#4	14'-7"	U	
h5(E)	12	#4	25'-10"	U	
h6(E)	4	#7	20'-6"	U	
h7(E)	45	#6	15'-0"	U	
h8(E)	14	#7	15'-0"	U	
h9(E)	28	#6	13'-4"	U	
h10(E)	28	#4	10'-4"	U	
s(E)	22	#5	6'-7"	U	
s1(E)	22	#5	5'-11"	U	
s2(E)	4	#4	6'-9"	U	
s3(E)	4	#4	8'-7"	U	
s4(E)	4	#4	7'-6"	U	
s5(E)	4	#4	9'-6"	U	
u(E)	104	#4	3'-4"	U	
v(E)	360	#4	5'-2"	U	
v1(E)	360	#4	4'-9"	U	
v2(E)	240	#4	4'-2"	U	
v3(E)	40	#4	9'-10"	U	
v4(E)	40	#4	10'-1"	U	
v5(E)	104	#4	5'-6"	U	
Protective Coat				Sq. Yd.	195
Reinforcement Bars, Epoxy Coated				Pound	30,570
Concrete Box Culverts				Cu. Yd.	139.6

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DRAWN	- LM	REVISOR	-	REVISOR	-
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PLOT DATE	= 8/22/2023	DATE	- 8/18/2023	REVISOR	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS 2 OF 2
STRUCTURE NO. 056-0344

SHEET 4 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	32
			CONTRACT NO. 62H25	
			ILLINOIS FED. AID PROJECT	

WEST EDGE OF PAVEMENT

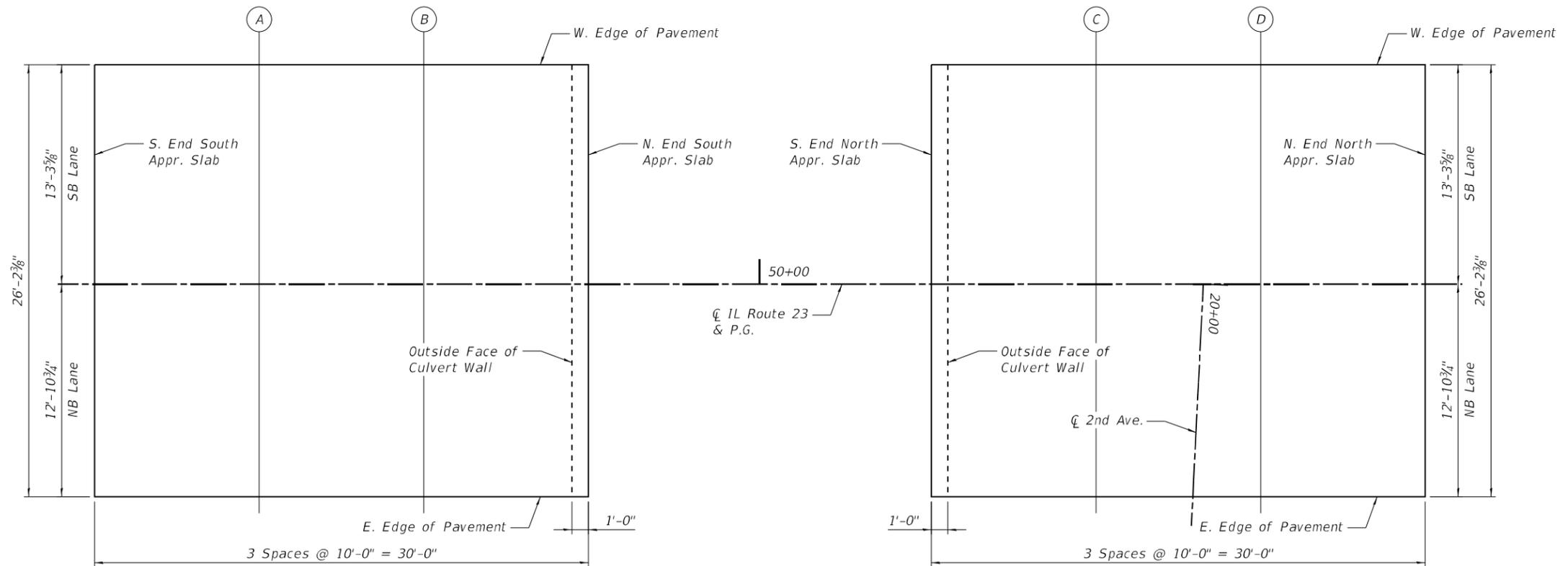
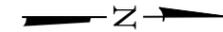
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	49+59.58	-13.30	806.14
A	49+69.58	-13.30	806.12
B	49+79.58	-13.30	806.10
N. End South Appr. Slab	49+89.58	-13.30	806.08
S. End North Appr. Slab	50+10.42	-13.30	806.03
C	50+20.42	-13.30	806.01
D	50+30.42	-13.30	805.98
N. End North Appr. Slab	50+40.42	-13.30	805.96

CL IL ROUTE 23 & P.G.

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	49+59.58	0.00	806.34
A	49+69.58	0.00	806.32
B	49+79.58	0.00	806.30
N. End South Appr. Slab	49+89.58	0.00	806.28
S. End North Appr. Slab	50+10.42	0.00	806.23
C	50+20.42	0.00	806.21
D	50+30.42	0.00	806.18
N. End North Appr. Slab	50+40.42	0.00	806.16

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	49+59.58	12.90	806.15
A	49+69.58	12.90	806.13
B	49+79.58	12.90	806.10
N. End South Appr. Slab	49+89.58	12.90	806.08
S. End North Appr. Slab	50+10.42	12.90	806.03
C	50+20.42	12.90	806.01
D	50+30.42	12.90	805.99
N. End North Appr. Slab	50+40.42	12.90	805.97



PLAN

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USER NAME = amalla,baymundo	DESIGNED -	REVISED -
PLOT SCALE = 8,000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/22/2023	CHECKED -	REVISED -
	DATE = 8/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

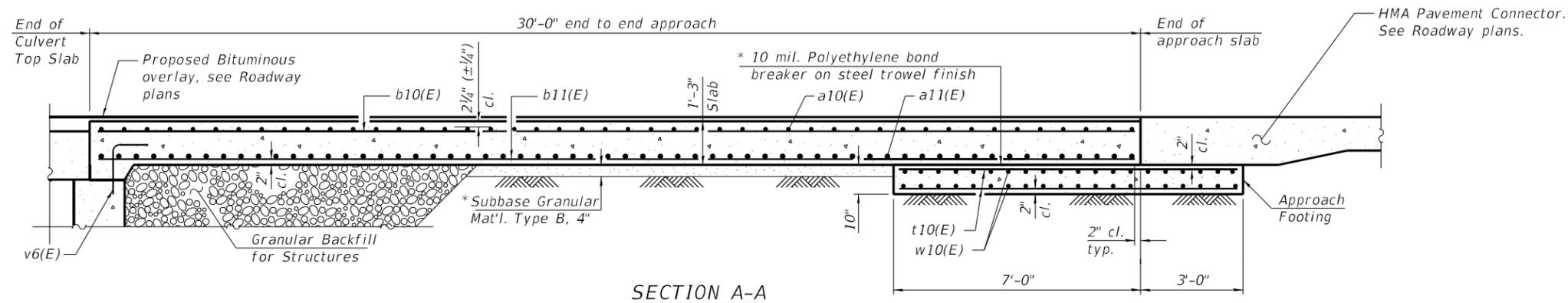
TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 056-0344

SHEET 5 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	

Notes:

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 1 of 10.



* Cost included with Concrete Superstructure (Approach Slab).

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	25'-10"	————
a11(E)	120	#8	25'-10"	————
b10(E)	80	#5	29'-8"	————
b11(E)	126	#9	29'-8"	————
t10(E)	108	#4	9'-8"	————
w10(E)	80	#5	25'-10"	————
Concrete Structures			Cu. Yd.	16.2
Protective Coat			Sq. Yd.	175
Concrete Superstructure (Approach Slab)			Cu. Yd.	72.8
Reinforcement Bars, Epoxy Coated			Pound	28,790

MODEL: D:\64bit\... FILE NAME: D:\224144\ch-8B-Ap-Slab2



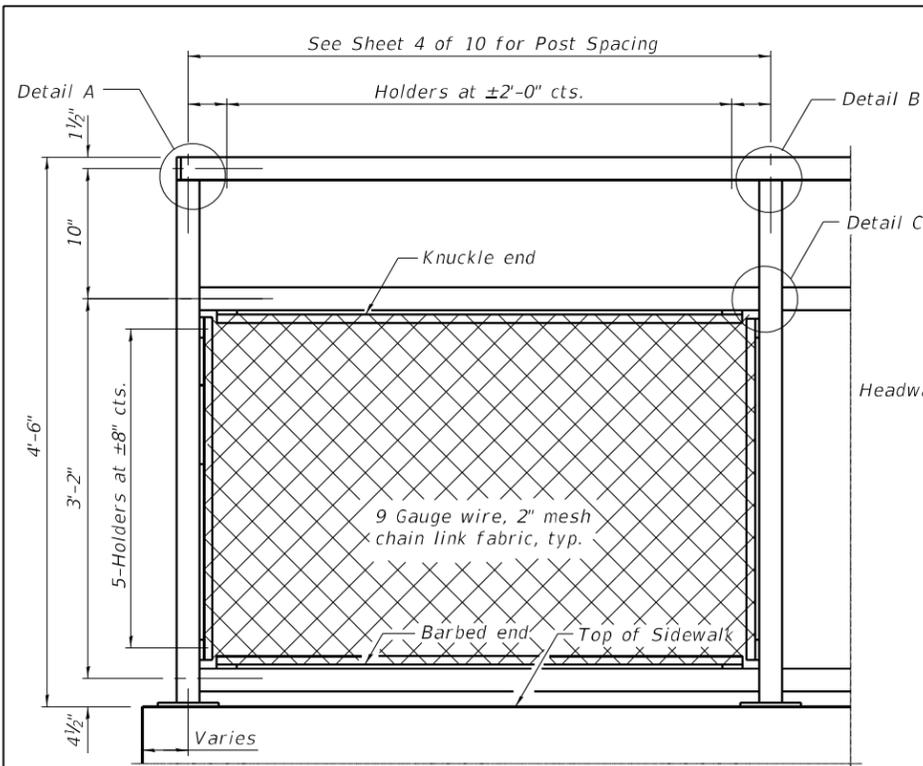
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DRAWN - LM	REVISIONS -	
PLOT SCALE = 0.1667' / in.	CHECKED - JM	REVISED -
PLOT DATE = 10/6/2023	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

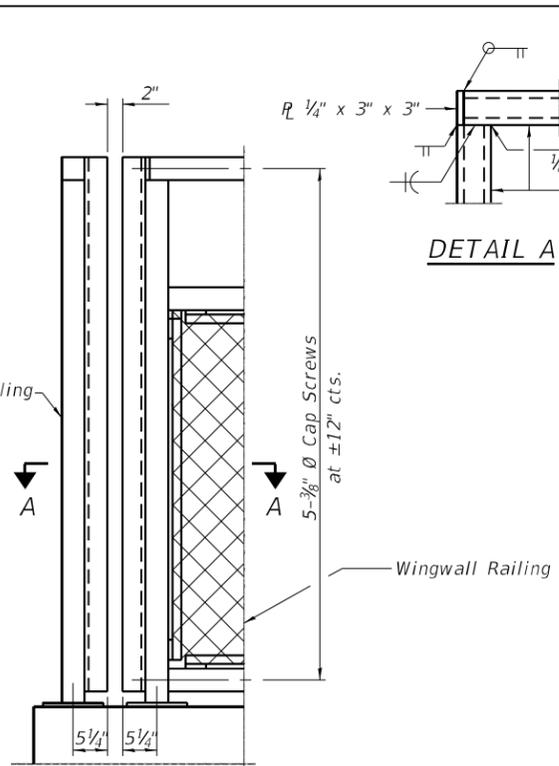
**APPROACH SLAB DETAILS
 STRUCTURE NO. 056-0344**

SHEET 7 OF 10 SHEETS

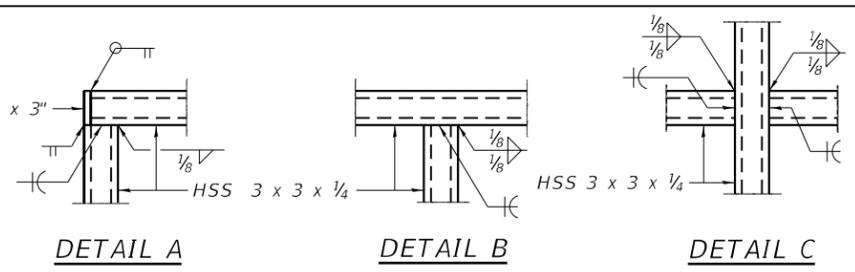
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	



BICYCLE RAILING



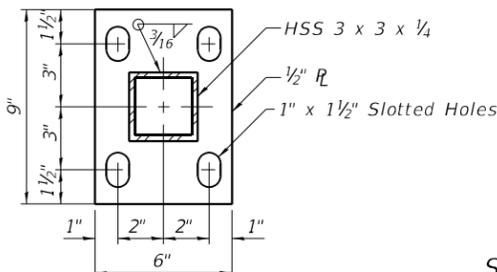
BICYCLE RAILING
(Facing Wingwall)



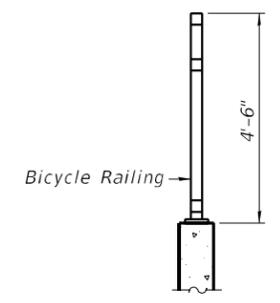
DETAIL A

DETAIL B

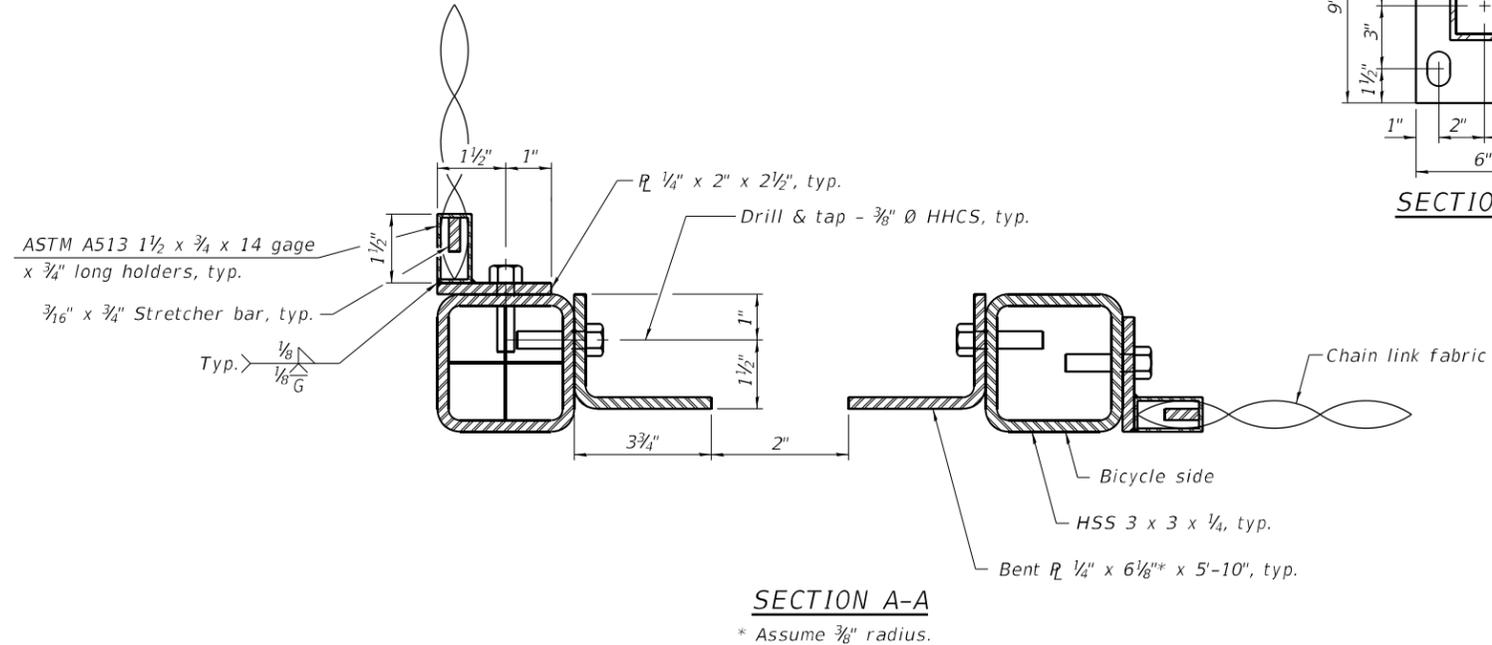
DETAIL C



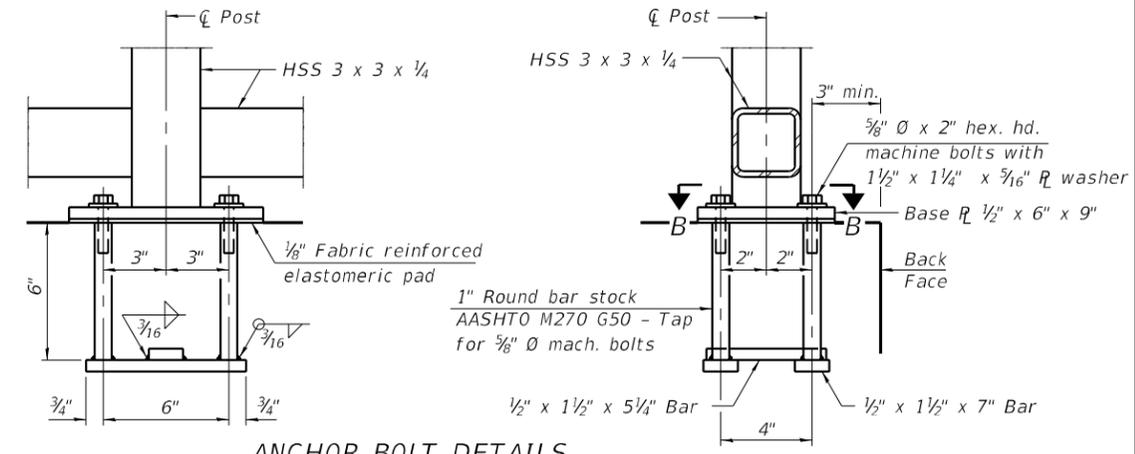
SECTION B-B



SECTION THRU HEADWALL/WINGWALL



SECTION A-A
* Assume 3/8" radius.



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	62

RAILING CRITERIA

Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

Notes:
Place reinforcement bars to miss anchor rod locations.
CVN testing is not required for the HSS tubing used in the Bicycle Railing.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

MODEL: D:\64bit\... FILE NAME: D:\22414\20-BicycleRailing



USER NAME = amalla.baymundo
DESIGNED - JM
DRAWN - LM
CHECKED - JM
DATE - 8/18/2023
PLOT SCALE = 0.1667' / in.
PLOT DATE = 8/22/2023

DESIGNED - JM
DRAWN - LM
CHECKED - JM
DATE - 8/18/2023
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
STRUCTURE NO. 056-0344

SHEET 8 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	36
			CONTRACT NO. 62H25	

ILLINOIS FED. AID PROJECT



GSI Job No. 21003-A

SOIL BORING LOG

Page 1 of 1

Date 8/13/21

PROJECT IL-23/FAP 324/N. State Street

LOCATION Il-23 And 2nd Avenue, Merango, Il.

COUNTY McHenry DRILLING METHOD HSA/Rotary HAMMER TYPE CME Automatic

CLIENT Garza Karhoff Engineering, LLC

BORING NO. SGB-02
 Northing 2036309
 Easting 909767
 Ground Surface Elev. 806.3 ft

Description	Elev. (ft)	D (ft)	B (%)	L (%)	O (%)	S (%)	M (%)	U (%)	T (%)	Qu	T	Surface Water Elev. n/a ft	Stream Bed Elev. n/a ft	Groundwater Elev.:	First Encounter Dry to -10.0' ft	Upon Completion n/a ft	After n/a Hrs. n/a ft	D (ft)	B (%)	L (%)	O (%)	S (%)	M (%)	U (%)	T (%)	Qu	T
2.0" ASPHALT, 9.0" CONCRETE	805.4																										
CRUSHED STONE-medium dense		6																									
		4																									
SANDY TOPSOIL black very loose	803.3																										
		2																									
		2																									
		2																									
WELL GRADED SAND with CLAY-dark brown-medium dense (SW-SC)	800.8																										
		4																									
		5																									
		6																									
POORLY GRADED SAND & GRAVEL-gray-medium dense (GP)	798.3																										
		2																									
		3																									
		4																									
		10																									
		2																									
		3																									
		3																									
POORLY GRADED SAND-brown-loose (SP)	793.3																										
		2																									
		3																									
		4																									
		15																									
		4																									
		4																									
		3																									
POORLY GRADED SAND & GRAVEL-brown-medium dense (GP)	788.3																										
		7																									
		8																									
		8																									
		20																									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
 BBS, from 137 (Rev. 8-99)

SOIL BORING SGB-02

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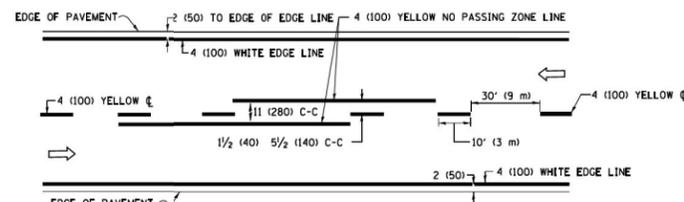
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	DRAWN - LM	REVISED -
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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

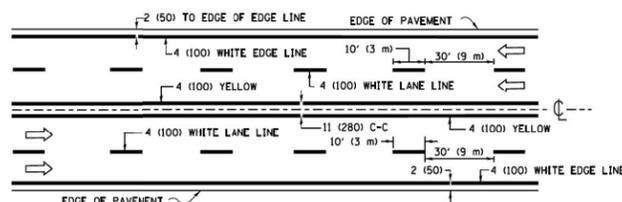
SOIL BORING LOGS 2 of 2
 STRUCTURE NO. 056-0344

SHEET 10 OF 10 SHEETS

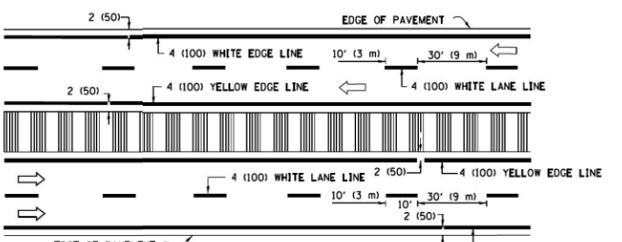
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	38
CONTRACT NO. 62H25			ILLINOIS FED. AID PROJECT	



2-LANE ROADWAY

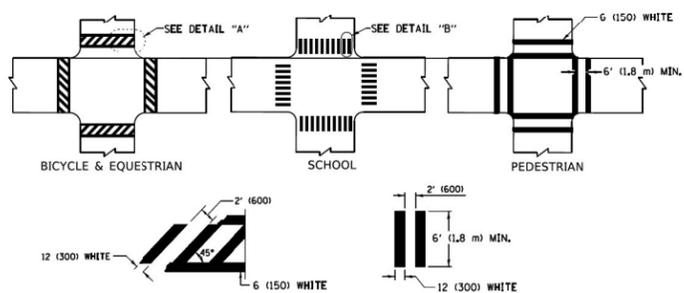


MULTI-LANE UNDIVIDED



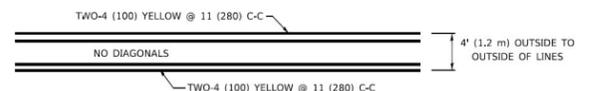
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

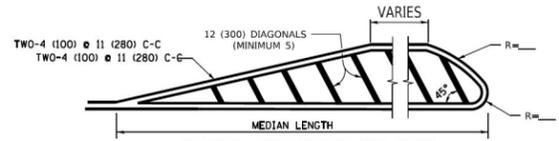


TYPICAL CROSSWALK MARKING

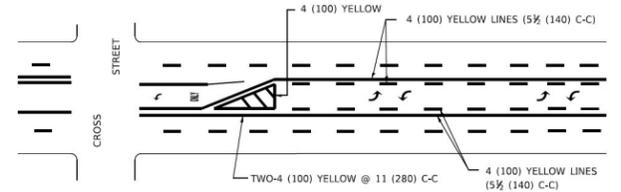
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



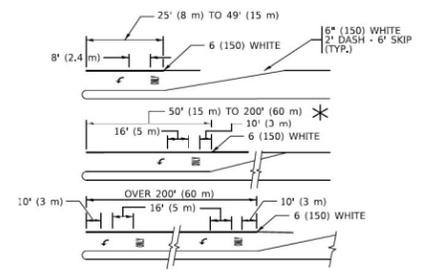
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

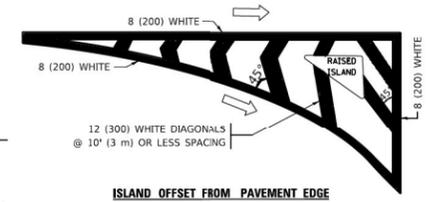


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

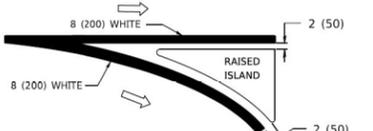


TYPICAL LEFT (OR RIGHT) TURN LANE

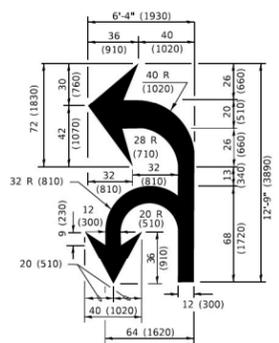
TYPICAL TURN LANE MARKING



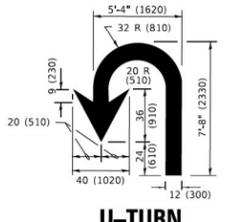
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
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	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSWALK CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h)) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; *RR* IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m²) EACH *X*=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
DRAWN -	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 30,0000' / in.	DATE - 03-19-90	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

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13			
ILLINOIS			CONTRACT NO.	

MODEL: D:\p\h\k... FILE NAME: D:\224144\h-d\122503\d_05.dgn

USER NAME = amalla,baymundo	DESIGNED - AMB	REVISED -
DRAWN - AMB	CHECKED - MM	REVISED -
PLOT SCALE = 0.2000' / in.	DATE - 8/18/2023	REVISED -
PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 5 OF 7 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-091-CR	MCHENRY	45	43
ILLINOIS			CONTRACT NO. 62H25	

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

MAIN STREET
R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

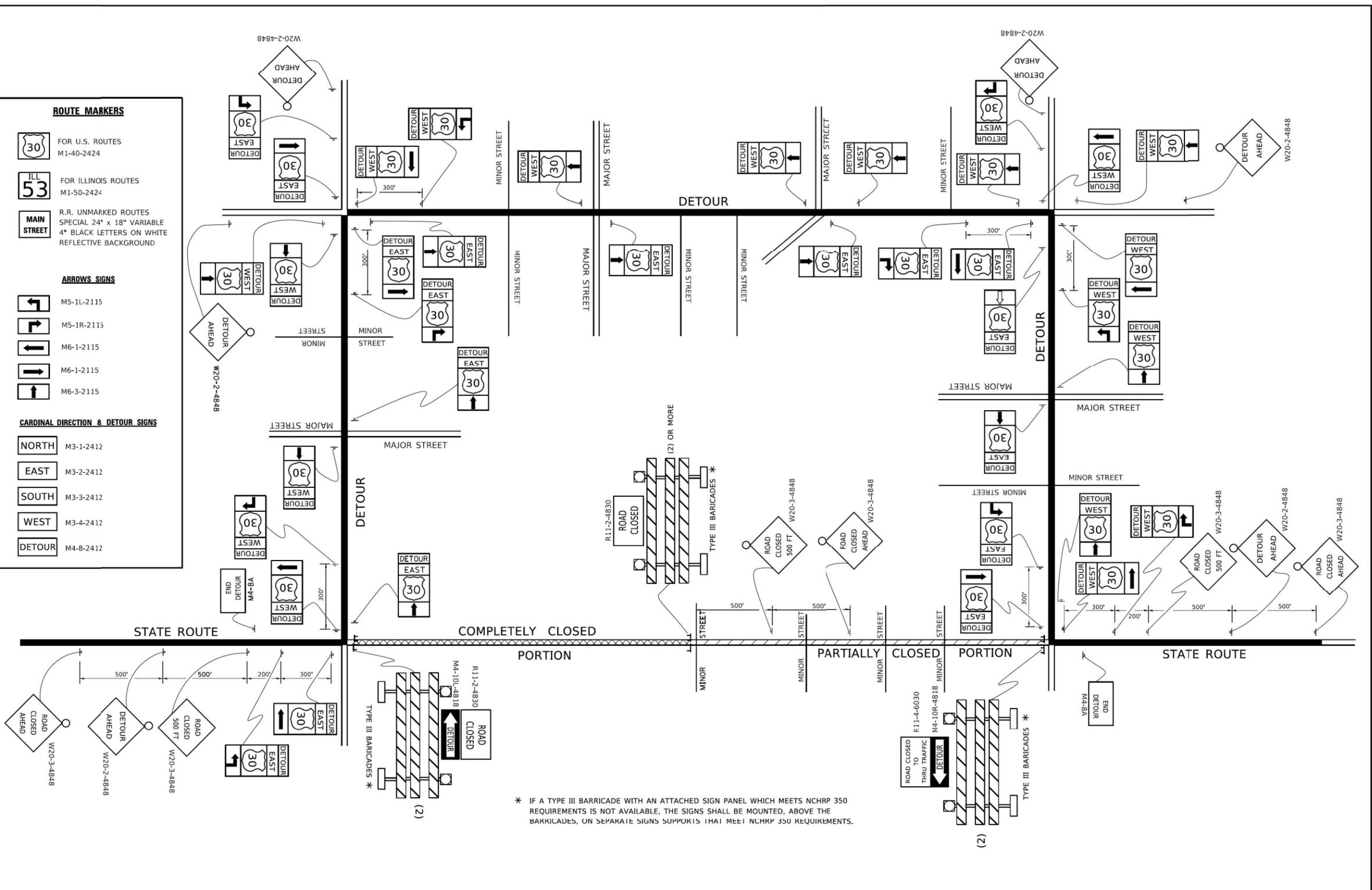
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
PLOT SCALE = 30,0000' / in.	DRAWN -	REVISED - R. DCRO 09-14-09
PLOT DATE = 8/22/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET 1	OF 1	SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-21			
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

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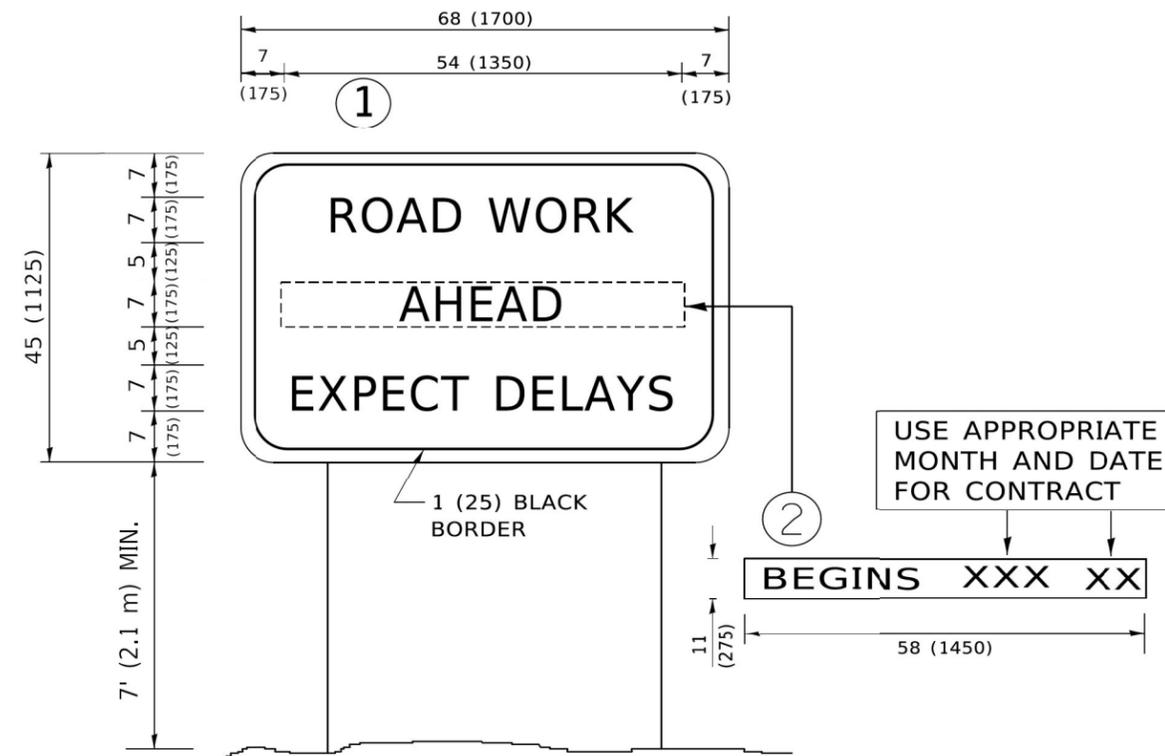


USER NAME = amalla.baymundo	DESIGNED - AMB	REVISED -
PLOT SCALE = 0.2000' / in.	DRAWN - AMB	REVISED -
PLOT DATE = 8/22/2023	CHECKED - MM	REVISED -
	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET 6	OF 7	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H25	



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 = footej	DESIGNED -	REVISED - R. MIRS 09-15-97
DRAWN -	CHECKED -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 30,0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-22		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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

MODEL: Defaul
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2/2/2019 10:46:15 AM User:footej

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PLOT DATE = 8/22/2023	DATE - 8/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	2018-091-CR	MCHENRY	45	45
		CONTRACT NO. 62H25		
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.