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* SHEETS 26, 28, 31, 33, 39-41 HAVE BEEN DELETED

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO.2

TRAFFIC DATA

PONTOON RD TO IL 162

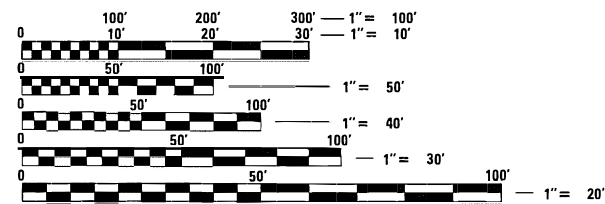
2019 ADT = 12000 (ACTUAL)
 2021 ADT = 12100 (ESTIMATED)
 2041 ADT = 13400 (ESTIMATED)
 SU = 3.1% MU = 4.4%

IL 162 TO HORSESHOE LAKE RD.

2019 ADT = 8900 (ACTUAL)
 2021 ADT = 9000 (ESTIMATED)
 2041 ADT = 9900 (ESTIMATED)
 SU = 3.4% MU = 4.2%

HORSESHOE LAKE RD TO PETROFF PLAZA

2019 ADT = 6750 (ACTUAL)
 2021 ADT = 6800 (ESTIMATED)
 2041 ADT = 7500 (ESTIMATED)
 SU = 7.4% MU = 6.3%



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 LOCATING INFORMATION FOR EXCAVATORS
 1-800-892-0123
 OR 811

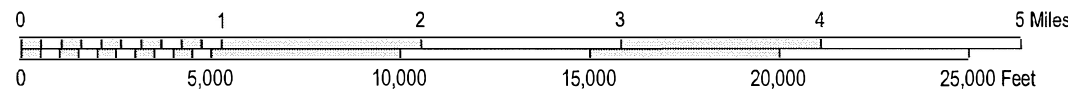
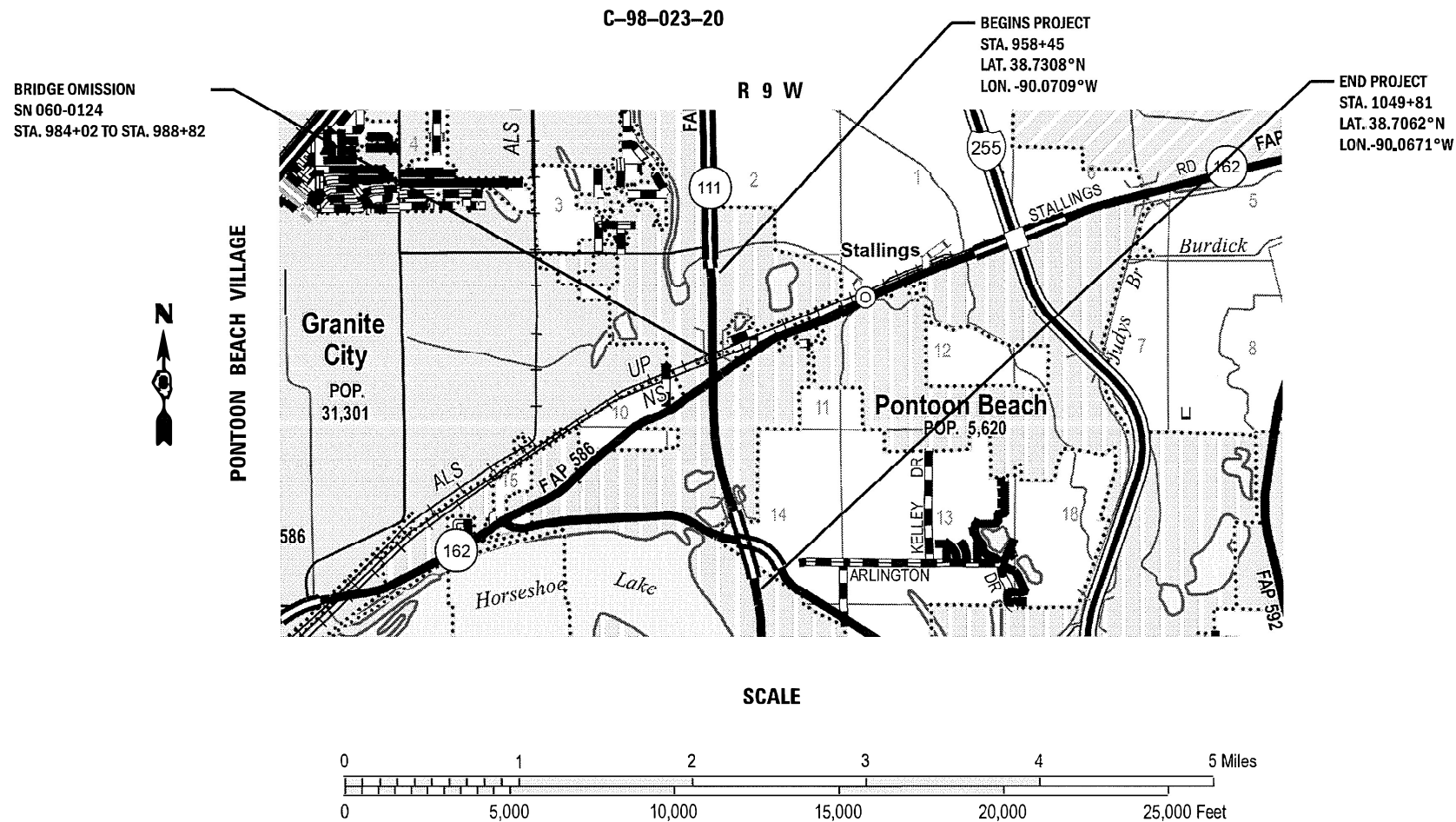
PROJECT ENGINEER: BILLIE OWEN
PROJECT MANAGER: MEIWU AN

CONTRACT NO. 76M82

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 582 (IL-111)
SECTION (6-1,6-2) RS-3
PROJECT STP-WRLK(249)
RESURFACING-DESIGNED OVERLAY & ADA UPGRADES
MADISON COUNTY



GROSS LENGTH = 9136.00 FEET = 1.730 MILES
 NET LENGTH = 8656.00 FEET = 1.639 MILES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45*	1
		ILLINOIS	CONTRACT NO. 76M82	

* 45 - 7 = 38 TOTAL SHEETS



FUNCTIONAL CLASSIFICATION
 MINOR ARTERIAL

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 1 2023
K. H. P.
 REGIONAL ENGINEER

March 24, 2023
S. A. E. K.
 ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023
Stephen M. ...
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-10 PAVEMENT JOINTS
- 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424031-02 MEDIAN PEDESTRIAN CROSSINGS
- 442101-09 CLASS B PATCHES
- 442201-03 CLASS C AND D PATCHES
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURF OR WIDENING&RESURF PROJECTS
- 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-10 TRAFFIC BARRIER TERMINAL TYPE 2
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600MM) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
- 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 725001-01 OBJECT AND TERMINAL MARKERS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS
- 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT
- 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-03 HANDHOLES
- 838001-01 BREAKAWAY DEVICES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

GENERAL NOTES

1. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
ADB COMPANIES (COMMUNICATIONS)	X	X
AMEREN ILLINOIS (GAS & ELECTRIC)	X	X
AT&T ILLINOIS (COMMUNICATIONS)	X	X
BUCKEYE PARTNERS L.P.-WOOD RIVER PIPELINE (PIPELINE)		X
CHARTER COMMUNICATIONS, INC.(CABLE TV)	X	X
CONSOLIDATED COMMUNICATIONS (COMMUNICATIONS)	X	X
EVER STREAM GLC HOLDING COMPANY LLC (COMMUNICATIONS)	X	X
ILLINOIS AMERICAN WATER COMPANY. (WATER)	X	X
MADISON COUNTY (SANITORY SEWER)		X
VERIZON BUSINESS. (COMMUNICATIONS)	X	X
PONTOON BEACH PUBLIC WATER DISTRICT (WATER)		X
WINDSTREAM KDL, INC.(COMMUNICATIONS)	X	X
ZAYO GROUP LLC (COMMUNICATIONS)	X	X

GENERAL NOTES (CONTINUED)

2. ONLY SHORT TERM PAVEMENT MARKING REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS "SHORT TERM PAVEMENT MARKING REMOVAL."
3. ALL PATCHING ON THIS PROJECT SHALL BE COMPLETED PRIOR TO HMA SURFACE REMOVAL.
4. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
6. STRUCTURE 060-2009 & 060-0124 CAN BE CROSSED WITH AN EMPTY MTD WITH 40 TONS MAXIMUM GROSS WEIGHT RESTRICTIONS.
7. FOUR CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED 2 WEEKS PRIOR TO ANY LANE CLOSURE AND SHALL REMAIN UP FOR THE DURATION OF THE PROJECT. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ALONG IL 111 AND IL 162 OR AT DIRECTION OF THE ENGINEER.
8. THE ANTICIPATED REMOVAL IS BETWEEN 3" AND 3 3/4" THE INTENT OF THE MILLING IS TO REMOVE THE HMA RESURFACING ONLY. THE UNDERLYING CONCRETE SHALL NOT BE DISTURBED
9. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
10. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	BINDER	PATCHING	SHOULDER (lower)	SHOULDER (surface)
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0	IL 19.0	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "B"		
QUALITY MGMT PROGRAM	QCP	QCP	QC/QA	QC/QA	QC/QA
MatTranDev Required?	yes	yes	no	no	no

TURN LANES < 500 FEET					
MIXTURE USE	SURFACE	BINDER			
AC/PG	PG 64-22	PG 64-22			
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90			
MIX COMPOSITION (Gradation)	IL 9.5	IL 19.0			
FRICTION AGG	MIXTURE "D"	MIXTURE "B"			
QUALITY MGMT PROGRAM	QC/QA	QC/QA			
MatTranDev Required?	no	no			

PLAN QUANTITIES FOR HMA ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN
 PLAN QUANTITIES FOR AGGREGATE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 0.589 TONS/SQ YD/IN

COMMITMENTS

NONE

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2) RS-3	MADISON	45	2
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

80% FED 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	23	23	
25000200	SEEDING, CLASS 2	ACRE	0.25		0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25		25
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25		25
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25		25
25100630	EROSION CONTROL BLANKET	SQ YD	122.0		122.0
28000400	PERIMETER EROSION BARRIER	FOOT	58		58
35101598	AGGREGATE BASE COURSE, TYPE B 3"	SQ YD	118.0		118.0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	32792	32792	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	17312	17312	
40600990	TEMPORARY RAMP	SQ YD	152.1	152.1	
40603090	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N90	TON	4566	4566	
40604064	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N90	TON	3044.0	3044.0	

80% FED 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1059		1059
42400800	DETECTABLE WARNINGS	SQ FT	83		83
44000100	PAVEMENT REMOVAL	SQ YD	38.0		38.0
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	54753.7	54753.7	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	175		175
44000600	SIDEWALK REMOVAL	SQ FT	150		150
44003100	MEDIAN REMOVAL	SQ FT	390		390
44200050	WELDED WIRE REINFORCEMENT	SQ YD	2169.7	2169.7	
44200192	PAVEMENT PATCHING, TYPE II, 16 INCH	SQ YD	11.0		11.0
44201007	CLASS B PATCHES, TYPE II, 13 INCH	SQ YD	79.8	79.8	
44201013	CLASS B PATCHES, TYPE IV, 13 INCH	SQ YD	2169.7	2169.7	
44201299	DOWEL BARS 1 1/2"	EACH	598	598	
44213200	SAW CUTS	FOOT	4563	4563	
44213204	TIE BARS 3/4"	EACH	570	570	

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	3
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

80% FED 20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	155.2	155.2	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	3888.4	3888.4	
60609300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	90		90
60610500	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (ABUTTING EXISTING PAVEMENT)	FOOT	52		52
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	417		417
60622800	CONCRETE MEDIAN, TYPE SM-6.12	SQ FT	177		177
60623200	CONCRETE MEDIAN, TYPE SM-6.24	SQ FT	216		216
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	462.5	462.5	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	
63200310	GUARDRAIL REMOVAL	FOOT	500	500	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	

* SPECIALTY ITEM

80% FED 20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	18		18
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	460	460	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4812	4812	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1603	1603	
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	58	58	
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	26336	26336	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	FOOT	195	195	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	4
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

80% FED 20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	58	58	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	1.88		1.88
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2		2
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	1.5		1.5
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	41		41
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1		1
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	58	58	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	26607	26336	271
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	195	195	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	451		451
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	117	58	59
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	7.5		7.5
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	79		79

* SPECIALTY ITEM

80% FED 20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	10		10
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	353	353	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	5	5	
* 78200020	CURB REFLECTORS	EACH	32		32
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	353	353	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	9493	9493	
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	490		490
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	69		69
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	54		54
* 81028230	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	53		53
* 81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	40		40

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PLOT DATE = 1/31/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M82	

80% FED 20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
* 81400200	HEAVY-DUTY HANDHOLE	EACH	1		1
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	429		429
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	447		447
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5132		5132
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3151		3151
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	687		687
* 87900200	DRILL EXISTING HANDHOLE	EACH	3		3
* 88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2		2
* 88600100	DETECTOR LOOP, TYPE 1	FOOT	721		721
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	3807	3807	
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1		1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8680		8680

* SPECIALTY ITEM

Ø 0042

80% FED 20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	SAFETY 0021
				URBAN	URBAN
89502380	REMOVE EXISTING HANDHOLE	EACH	2		2
X0327036	BIKE PATH REMOVAL	SQ YD	122		122
X0795800	COARSE AGGREGATE	TON	35.0		35.0
X1400423	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	2		2
X4240420	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, SPECIAL	SQ FT	201		201
X4403700	MEDIAN REMOVAL (SPECIAL)	SQ FT	88		88
* X7800100	PAINT PAVEMENT MARKING - RAISED MEDIAN	SQ FT	133		133
* X7800200	PAINT PAVEMENT MARKING CURB	FOOT	119		119
* X8140115	HANDHOLE TO BE ADJUSTED	EACH	1		1
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2		2
X8950307	REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2		2
Z0007430	TEMPORARY SIDEWALK	SQ FT	201		201
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
Ø Z0076600	TRAINEES	hour	1500	1500	
Z0034105	MATERIAL TRANSFER DEVICE	TON	7609.9	7609.9	
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	1500	1500	

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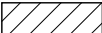

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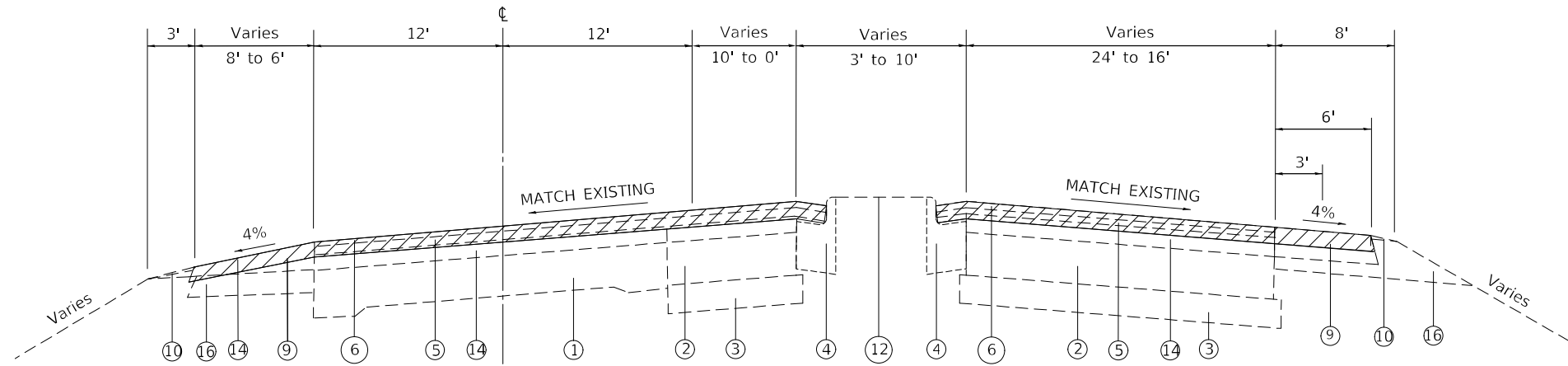
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	6
		CONTRACT NO. 76M82		
ILLINOIS FED. AID PROJECT				

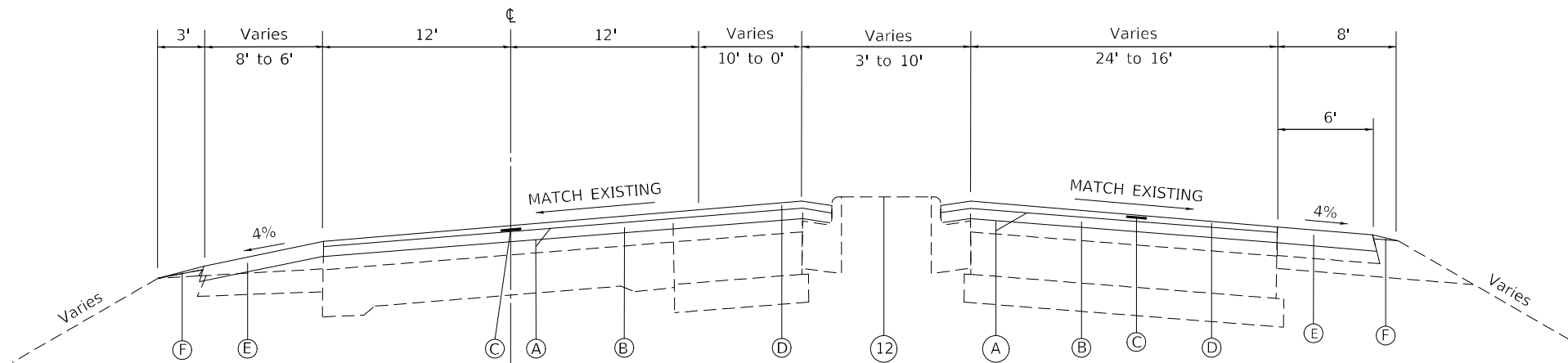
SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

-  PROPOSED HMA SURFACE REMOVAL, 3-3/4"
-  EXCAVATING & GRADING EX. SHOULDER



EXISTING TYPICAL SECTION

STA. 958+45 TO STA. 961+05



PROPOSED TYPICAL SECTION

STA. 958+45 TO STA. 961+05

LEGEND

- ① EXISTING CONCRETE PAVEMENT 10"-8"-10"
- ② EXISTING PCC BASE COURSE, VARIES 9" TO 10"
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, 6"
- ④ EXISTING CONCRETE CURB & GUTTER, TYPE B
- ⑤ EXISTING LEVELING BINDER VARIES 3/4" TO 1 3/4"
- ⑥ EXISTING POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", 1 1/2 "
- ⑦ EXISTING SHOULDERS (STABILIZED)
- ⑧ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑨ EXISTING HMA/ BITUMINOUS SHOULDERS (VARIES 1 1/2" TO 6 1/2")
- ⑩ EXISTING AGGREGATE SHOULDER TYPE B
- ⑪ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING
- ⑫ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑬ EXISTING CONCRETE GUTTER, TYPE A
- ⑭ EXISTING BITUMINOUS RESURFACING
- ⑮ EXISTING SHOULDER RUMBLE STRIPS
- ⑯ EXISTING AGGREGATE SHOULDER, TYPE A, 6"
- ⑰ EXISTING 5' PORTLAND CEMENT CONCRETE SIDEWALK 4"
- ⑱ EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑲ EXISTING PAVEMENT 9"-7"-9"
- ⑳ EXISTING GRASS MEDIAN
- ㉑ EXISTING RESURFACING 4-1/4" +/-
- ㉒ EXISTING AGGREGATE SHOULDER
- A PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- B PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- C PROPOSED LONGITUDINAL JOINT SEALANT
- D PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90, 1 1/2"
- E PROPOSED HOT-MIX ASPHALT SHOULDERS, 3 3/4"
- F PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- G PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A



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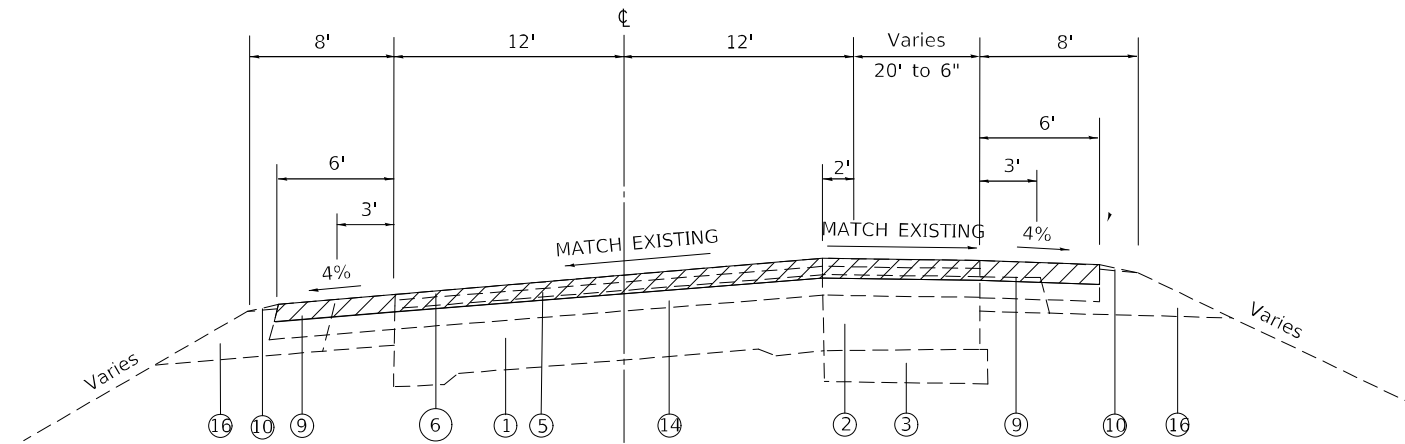
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	DRAWN -	REVISED -
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PLOT DATE = 2/16/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

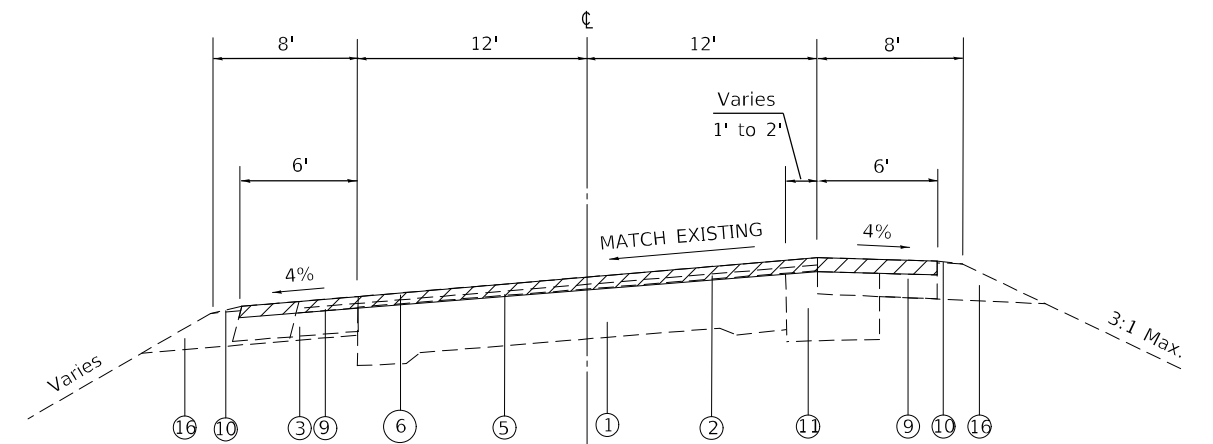
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	30-ZRS-3	MADISON	45	7
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

-  PROPOSED HMA SURFACE REMOVAL, 3-3/4"
-  EXCAVATING & GRADING EX. SHOULDER



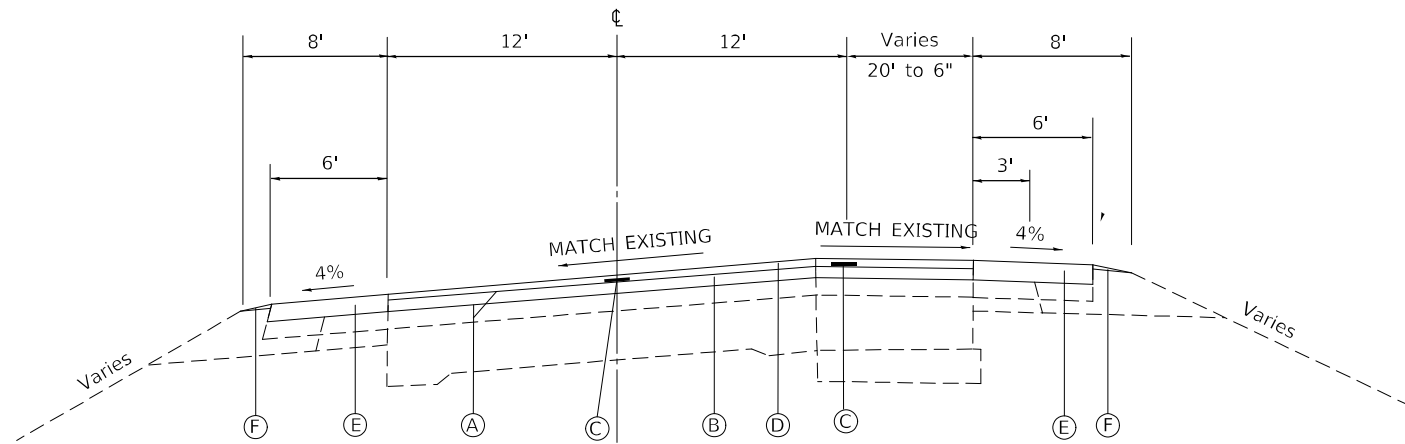
EXISTING SUPERELEVATED SECTION

STA. 961+05 TO STA. 964+59



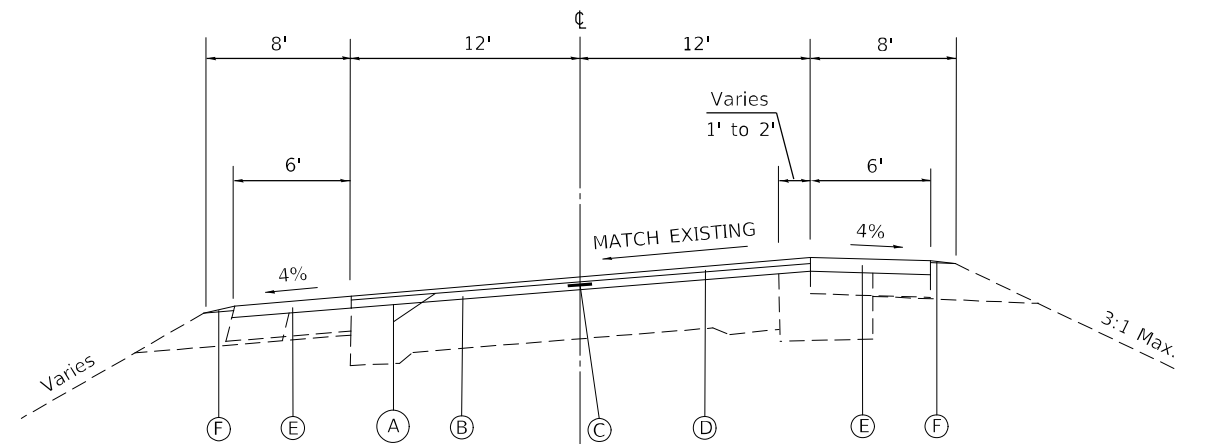
EXISTING SUPERELEVATED SECTION

STA. 964+59 TO STA. 974+45



PROPOSED SUPERELEVATED SECTION

STA. 961+05 TO STA. 964+59



PROPOSED SUPERELEVATED SECTION

STA. 964+59 TO STA. 974+45

LEGEND

- ① EXISTING CONCRETE PAVEMENT 10"-8"-10"
- ② EXISTING PCC BASE COURSE, VARIES 9" TO 10"
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, 6"
- ④ EXISTING CONCRETE CURB & GUTTER, TYPE B
- ⑤ EXISTING LEVELING BINDER VARIES 3/4" TO 1 3/4"
- ⑥ EXISTING POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", 1 1/2"
- ⑦ EXISTING SHOULDERS (STABILIZED)
- ⑧ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑨ EXISTING HMA/ BITUMINOUS SHOULDERS (VARIES 1 1/2" TO 6 1/2")
- ⑩ EXISTING AGGREGATE SHOULDER TYPE B
- ⑪ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING
- ⑫ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑬ EXISTING CONCRETE GUTTER, TYPE A
- ⑭ EXISTING BITUMINOUS RESURFACING
- ⑮ EXISTING SHOULDER RUMBLE STRIPS
- ⑯ EXISTING AGGREGATE SHOULDER, TYPE A, 6"
- ⑰ EXISTING 5' PORTLAND CEMENT CONCRETE SIDEWALK 4"
- ⑱ EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑲ EXISTING PAVEMENT 9"-7"-9"
- ⑳ EXISTING GRASS MEDIAN
- ㉑ EXISTING RESURFACING 4-1/4" +/-
- ㉒ EXISTING AGGREGATE SHOULDER
- (A) PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- (B) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (C) PROPOSED LONGITUDINAL JOINT SEALANT
- (D) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90, 1 1/2"
- (E) PROPOSED HOT-MIX ASPHALT SHOULDERS, 3 3/4"
- (F) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (G) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A

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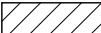

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/16/2023	DATE -	REVISED -

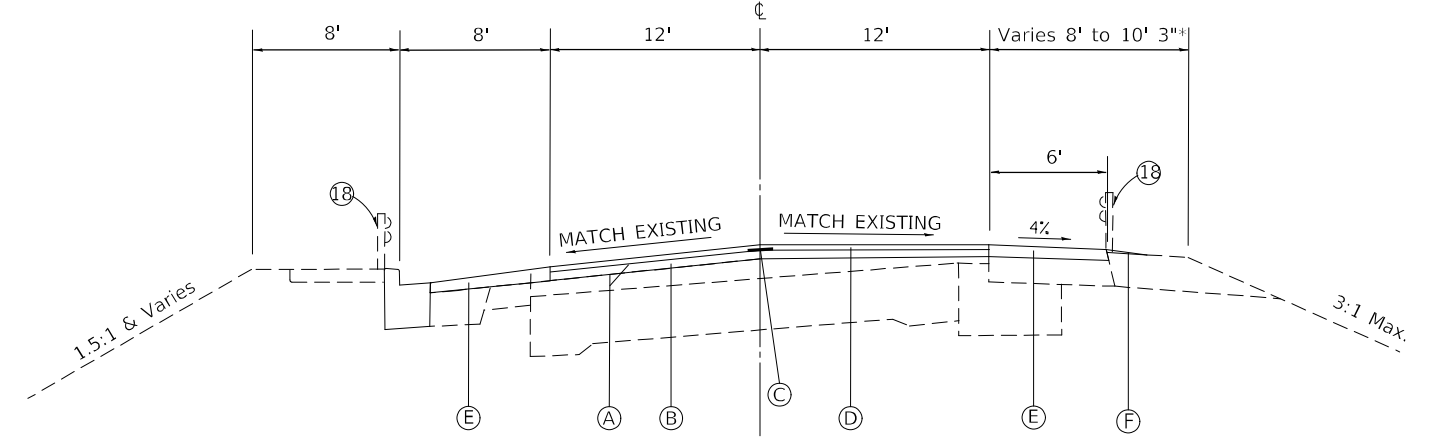
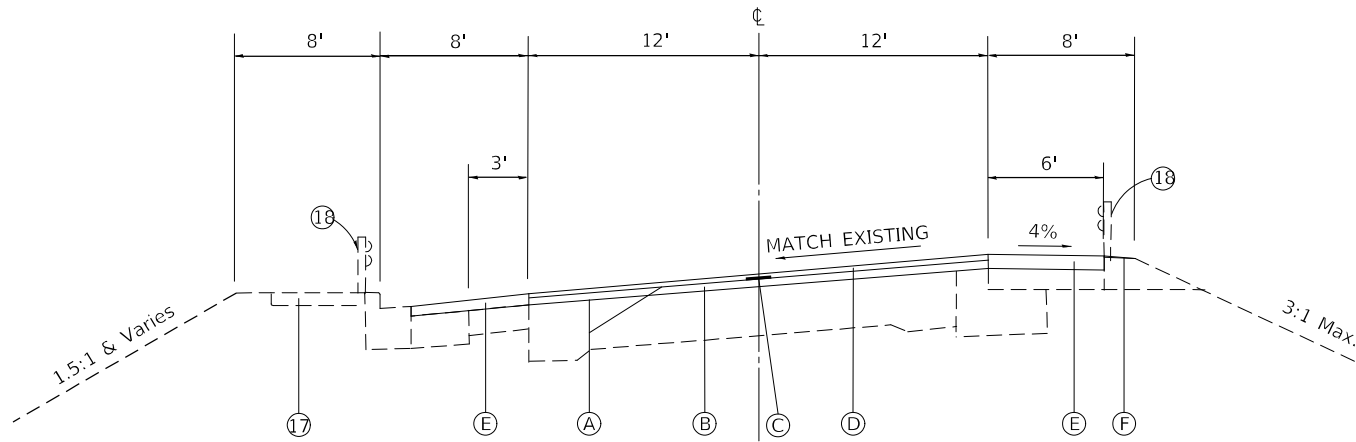
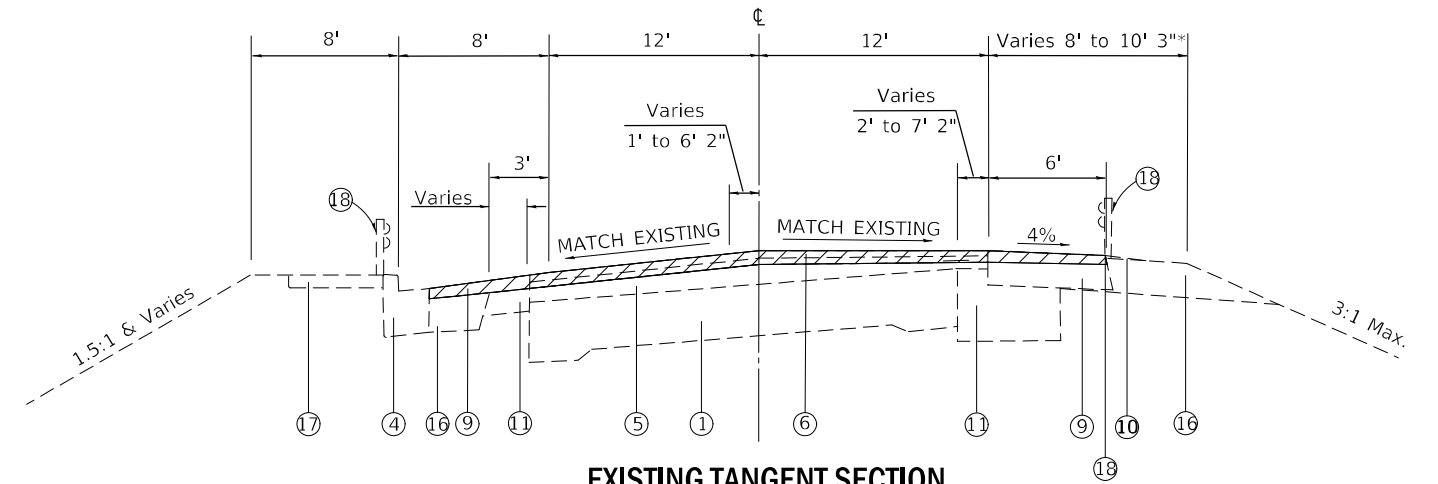
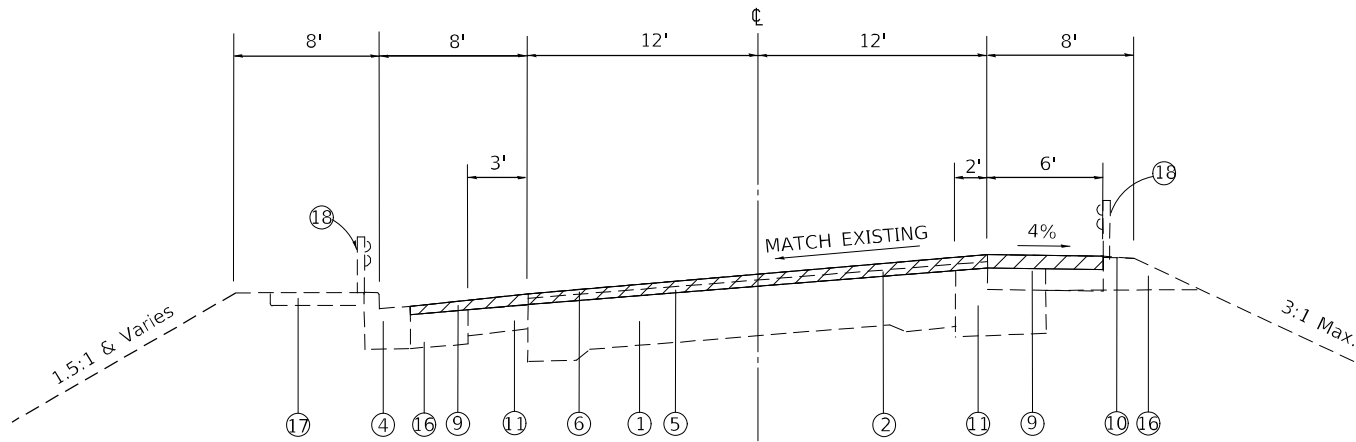
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	30-ZRS-3	MADISON	45	8
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

 PROPOSED HMA SURFACE REMOVAL, 3-3/4"
 EXCAVATING & GRADING EX. SHOULDER



LEGEND

- ① EXISTING CONCRETE PAVEMENT 10"-8"-10"
- ② EXISTING PCC BASE COURSE, VARIES 9" TO 10"
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, 6"
- ④ EXISTING CONCRETE CURB & GUTTER, TYPE B
- ⑤ EXISTING LEVELING BINDER VARIES 3/4" TO 1 3/4"
- ⑥ EXISTING POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", 1 1/2 "
- ⑦ EXISTING SHOULDERS (STABILIZED)
- ⑧ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑨ EXISTING HMA/ BITUMINOUS SHOULDERS (VARIES 1 1/2" TO 6 1/2")
- ⑩ EXISTING AGGREGATE SHOULDER TYPE B
- ⑪ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING
- ⑫ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑬ EXISTING CONCRETE GUTTER, TYPE A
- ⑭ EXISTING BITUMINOUS RESURFACING
- ⑮ EXISTING SHOULDER RUMBLE STRIPS
- ⑯ EXISTING AGGREGATE SHOULDER, TYPE A, 6"

- ⑰ EXISTING 5' PORTLAND CEMENT CONCRETE SIDEWALK 4"
- ⑱ EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑲ EXISTING PAVEMENT 9"-7"-9"
- ⑳ EXISTING GRASS MEDIAN
- ㉑ EXISTING RESURFACING 4-1/4" +/-
- ㉒ EXISTING AGGREGATE SHOULDER
- (A) PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- (B) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (C) PROPOSED LONGITUDINAL JOINT SEALANT
- (D) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90, 1 1/2"
- (E) PROPOSED HOT-MIX ASPHALT SHOULDERS, 3 3/4"
- (F) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (G) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

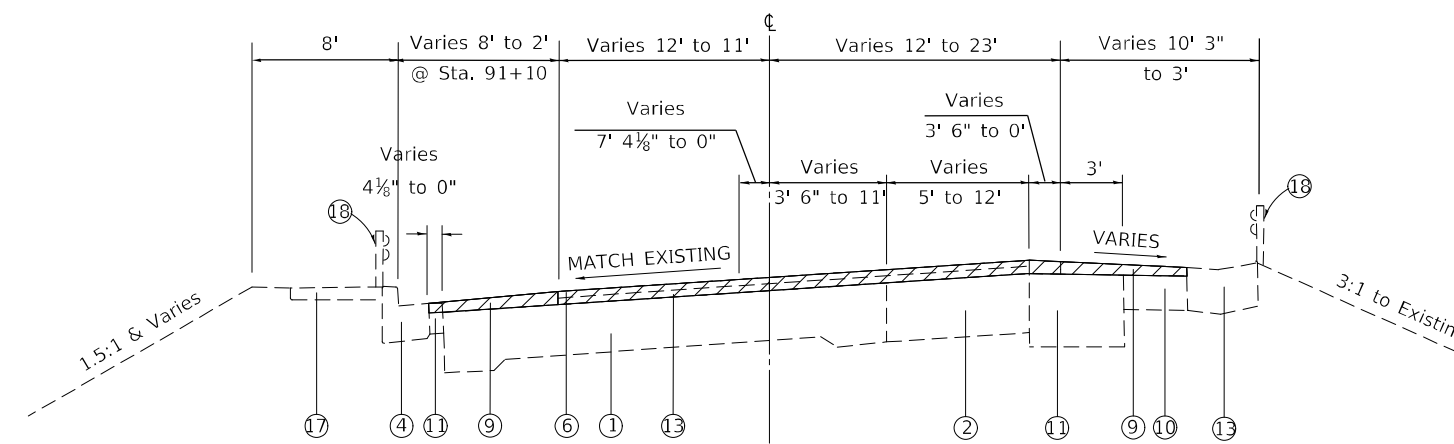
TYPICAL SECTIONS

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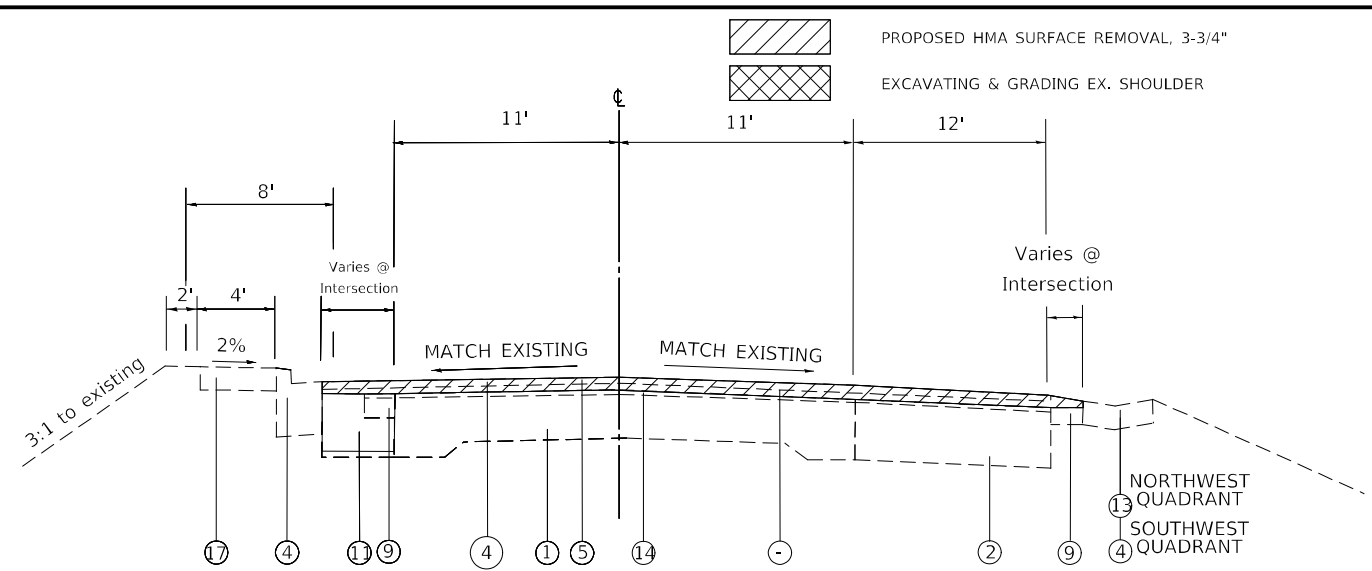
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	30-ZRS-3	MADISON	45	9
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

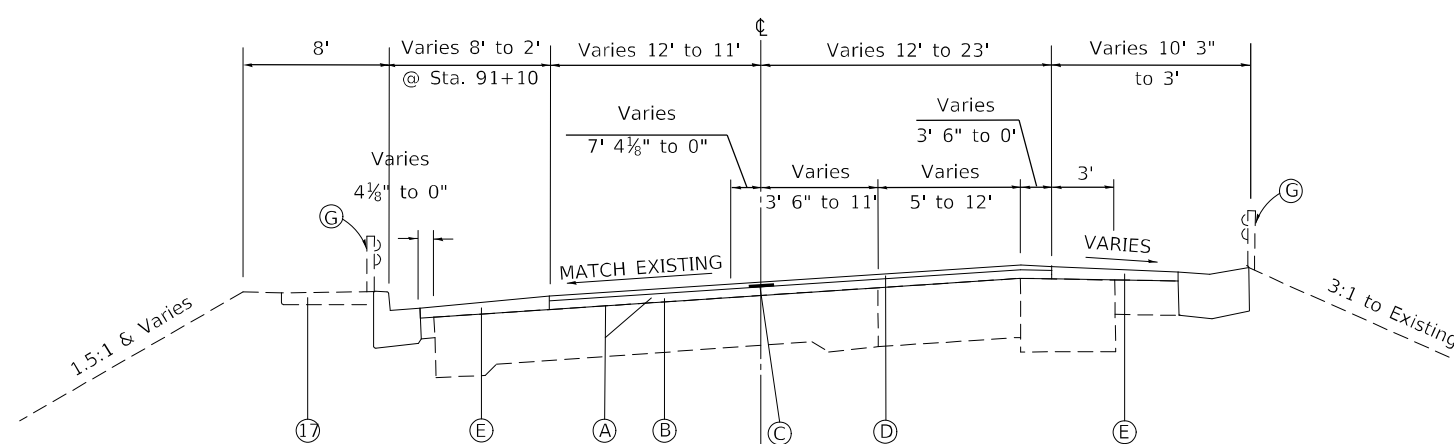
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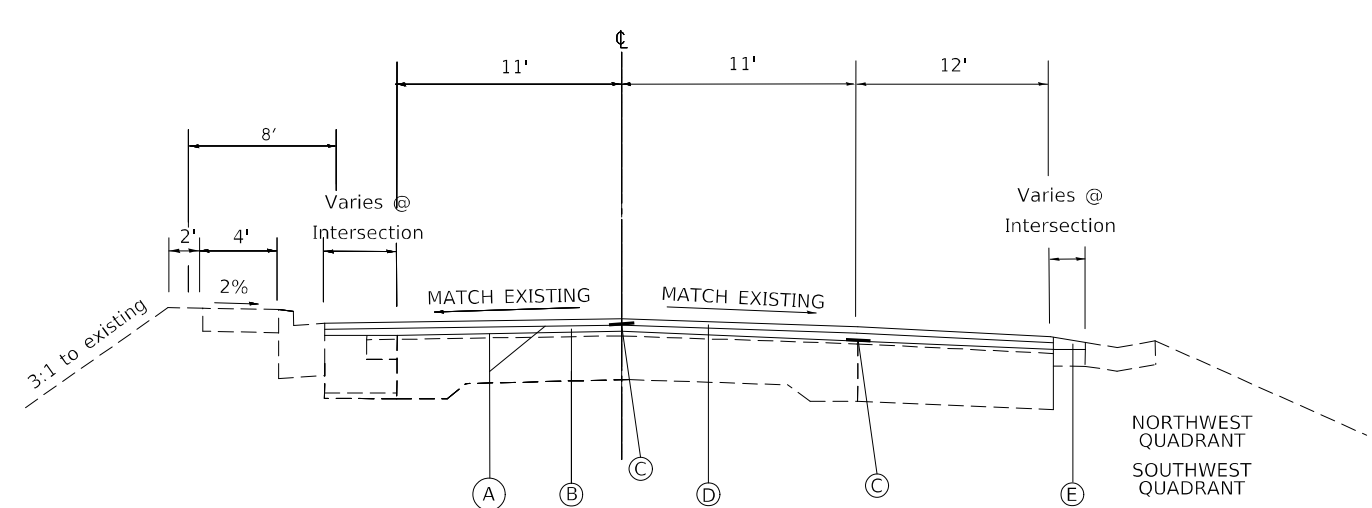
EXISTING TYPICAL SECTION
STA. 988+81.92 TO STA. 991+85



EXISTING TYPICAL SECTION
STA. 991+85.06 TO STA. 996+46



PROPOSED TYPICAL SECTION
STA. 988+82 TO STA. 991+85



PROPOSED TYPICAL SECTION
STA. 991+85.06 TO STA. 996+46

LEGEND

- | | |
|--|--|
| <p>① EXISTING CONCRETE PAVEMENT 10"-8"-10"</p> <p>② EXISTING PCC BASE COURSE, VARIES 9" TO 10"</p> <p>③ EXISTING SUB-BASE GRANULAR MATERIAL, 6"</p> <p>④ EXISTING CONCRETE CURB & GUTTER, TYPE B</p> <p>⑤ EXISTING LEVELING BINDER VARIES 3/4" TO 1 3/4"</p> <p>⑥ EXISTING POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", 1 1/2"</p> <p>⑦ EXISTING SHOULDERS (STABILIZED)</p> <p>⑧ EXISTING CONCRETE MEDIAN SURFACE 4"</p> <p>⑨ EXISTING HMA/ BITUMINOUS SHOULDERS (VARIES 1 1/2" TO 6 1/2")</p> <p>⑩ EXISTING AGGREGATE SHOULDER TYPE B</p> <p>⑪ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING</p> <p>⑫ EXISTING CONCRETE MEDIAN SURFACE 4"</p> <p>⑬ EXISTING CONCRETE GUTTER, TYPE A</p> <p>⑭ EXISTING BITUMINOUS RESURFACING</p> <p>⑮ EXISTING SHOULDER RUMBLE STRIPS</p> <p>⑯ EXISTING AGGREGATE SHOULDER, TYPE A, 6"</p> | <p>⑰ EXISTING 5' PORTLAND CEMENT CONCRETE SIDEWALK 4"</p> <p>⑱ EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A</p> <p>⑲ EXISTING PAVEMENT 9"-7"-9"</p> <p>⑳ EXISTING GRASS MEDIAN</p> <p>㉑ EXISTING RESURFACING 4-1/4" +/-</p> <p>㉒ EXISTING AGGREGATE SHOULDER</p> <p>A PROPOSED BITUMINOUS MATERIALS (TACK COAT)</p> <p>B PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"</p> <p>C PROPOSED LONGITUDINAL JOINT SEALANT</p> <p>D PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90, 1 1/2"</p> <p>E PROPOSED HOT-MIX ASPHALT SHOULDERS, 3 3/4"</p> <p>F PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B</p> <p>G PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A</p> |
|--|--|

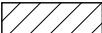

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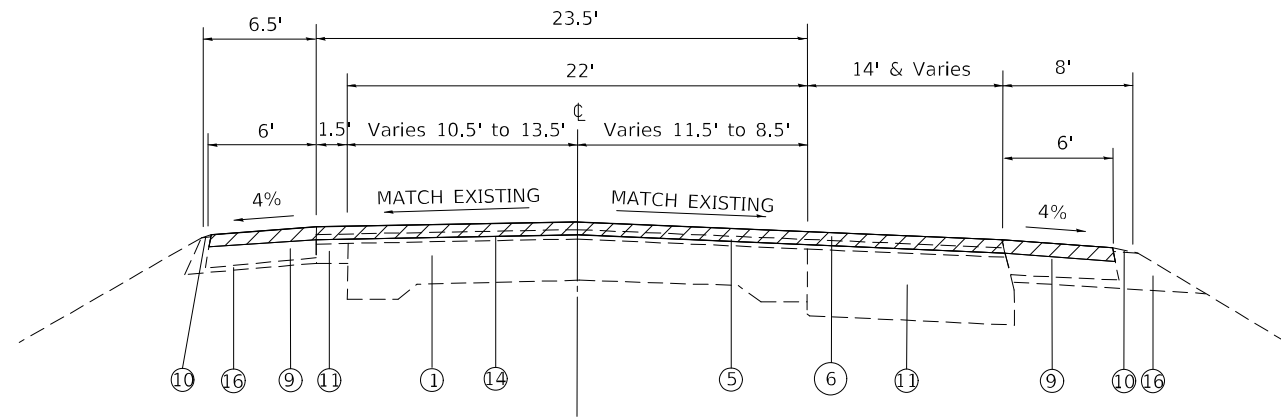
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET 4	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

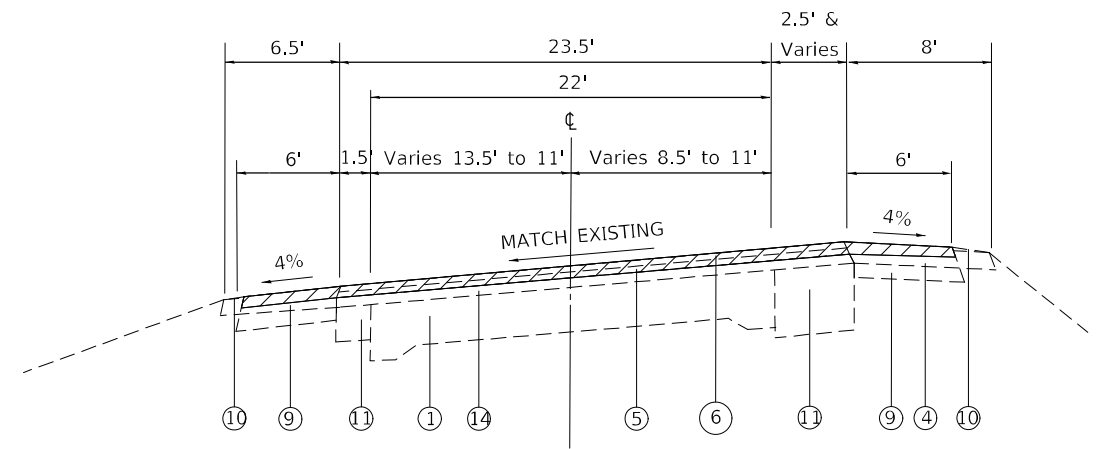
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-  PROPOSED HMA SURFACE REMOVAL, 3-3/4"
-  EXCAVATING & GRADING EX. SHOULDER



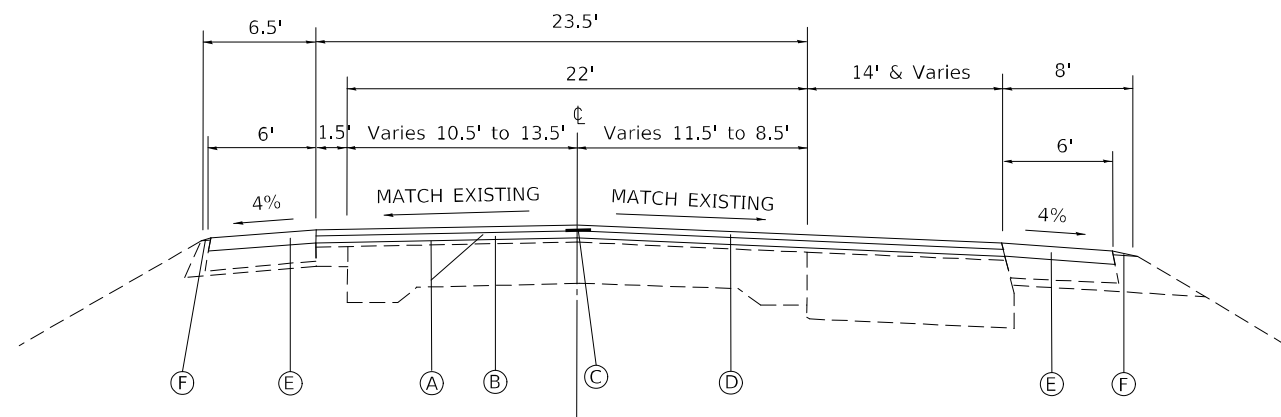
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STA. 996+46 TO STA. 998+95



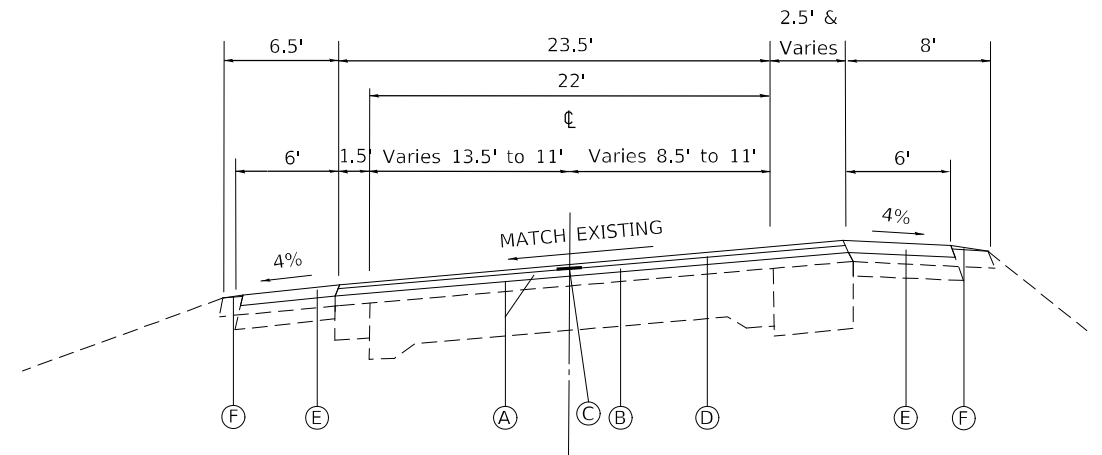
EXISTING SUPERELEVATED SECTION

STA. 998+95 TO STA. 1003+77



PROPOSED TANGENT SECTION

STA. 996+46 TO STA. 998+95



PROPOSED SUPERELEVATED SECTION

STA. 998+95 TO STA. 1003+77

LEGEND

- ① EXISTING CONCRETE PAVEMENT 10"-8"-10"
- ② EXISTING PCC BASE COURSE, VARIES 9" TO 10"
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, 6"
- ④ EXISTING CONCRETE CURB & GUTTER, TYPE B
- ⑤ EXISTING LEVELING BINDER VARIES 3/4" TO 1 3/4"
- ⑥ EXISTING POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", 1 1/2 "
- ⑦ EXISTING SHOULDERS (STABILIZED)
- ⑧ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑨ EXISTING HMA/ BITUMINOUS SHOULDERS (VARIES 1 1/2" TO 6 1/2")
- ⑩ EXISTING AGGREGATE SHOULDER TYPE B
- ⑪ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING
- ⑫ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑬ EXISTING CONCRETE GUTTER, TYPE A
- ⑭ EXISTING BITUMINOUS RESURFACING
- ⑮ EXISTING SHOULDER RUMBLE STRIPS
- ⑯ EXISTING AGGREGATE SHOULDER, TYPE A, 6"

- ⑰ EXISTING 5' PORTLAND CEMENT CONCRETE SIDEWALK 4"
- ⑱ EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑲ EXISTING PAVEMENT 9"-7"-9"
- ⑳ EXISTING GRASS MEDIAN
- ㉑ EXISTING RESURFACING 4-1/4" +/-
- ㉒ EXISTING AGGREGATE SHOULDER
- A PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- B PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- C PROPOSED LONGITUDINAL JOINT SEALANT
- D PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90, 1 1/2"
- E PROPOSED HOT-MIX ASPHALT SHOULDERS, 3 3/4"
- F PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- G PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A

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 PLOT DATE = 2/16/2023

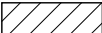

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DRAWN -	REVISOR -	
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PLOT DATE = 2/16/2023	DATE -	REVISED -

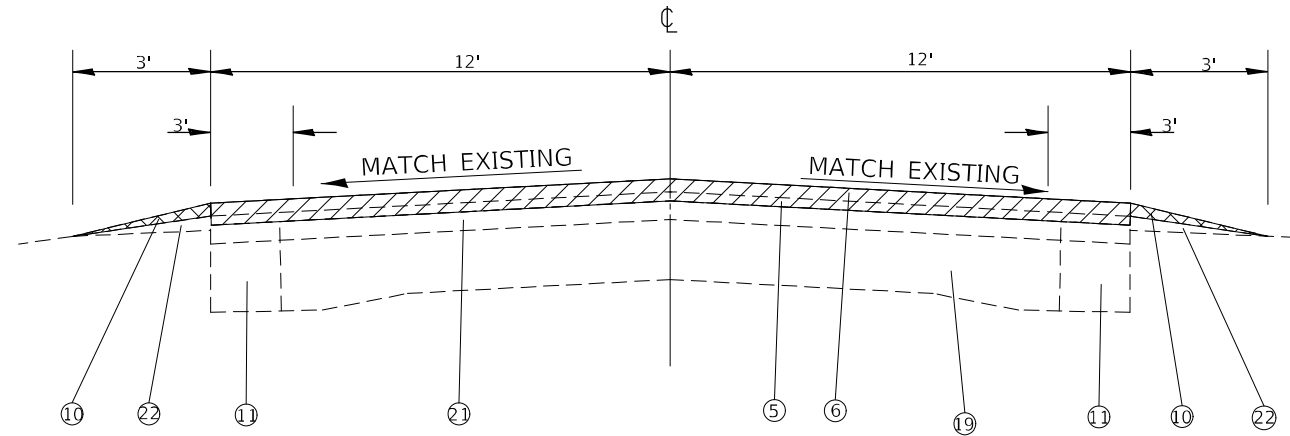
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

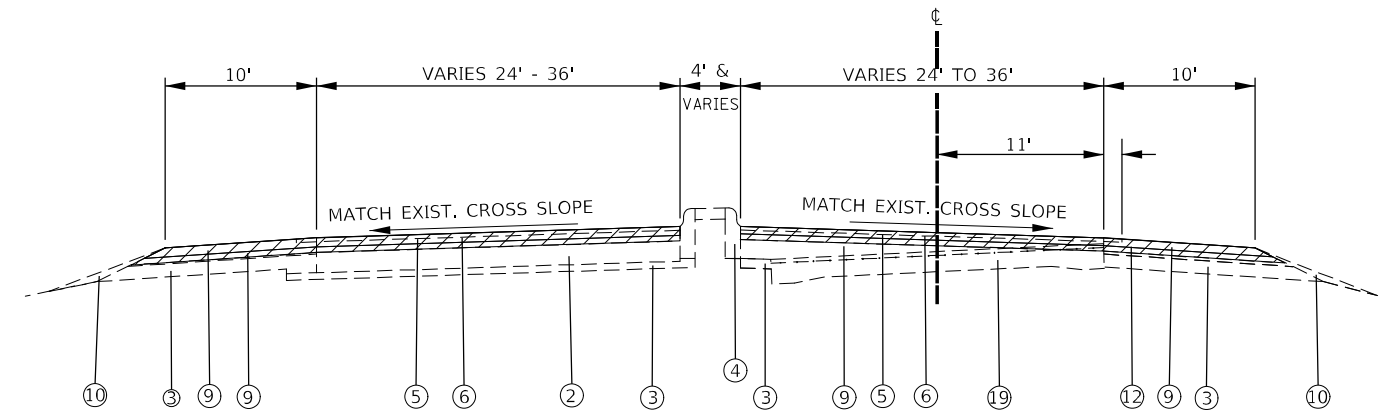
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	30-ZRS-3	MADISON	45	11
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

 PROPOSED HMA SURFACE REMOVAL, 3-3/4"
 EXCAVATING & GRADING EX. SHOULDER



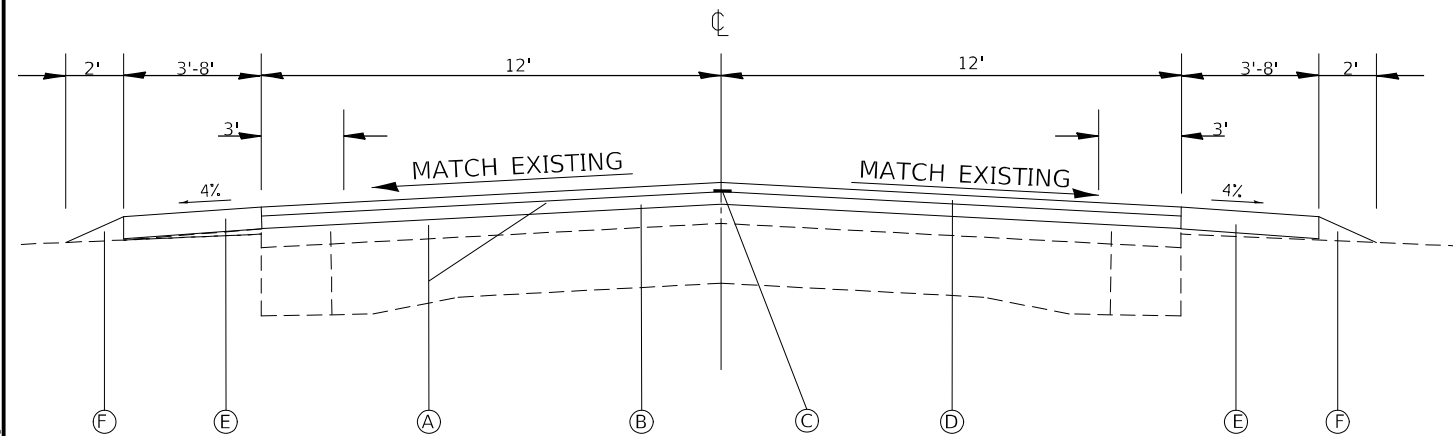
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STA. 1003+77 TO STA. 1032+81



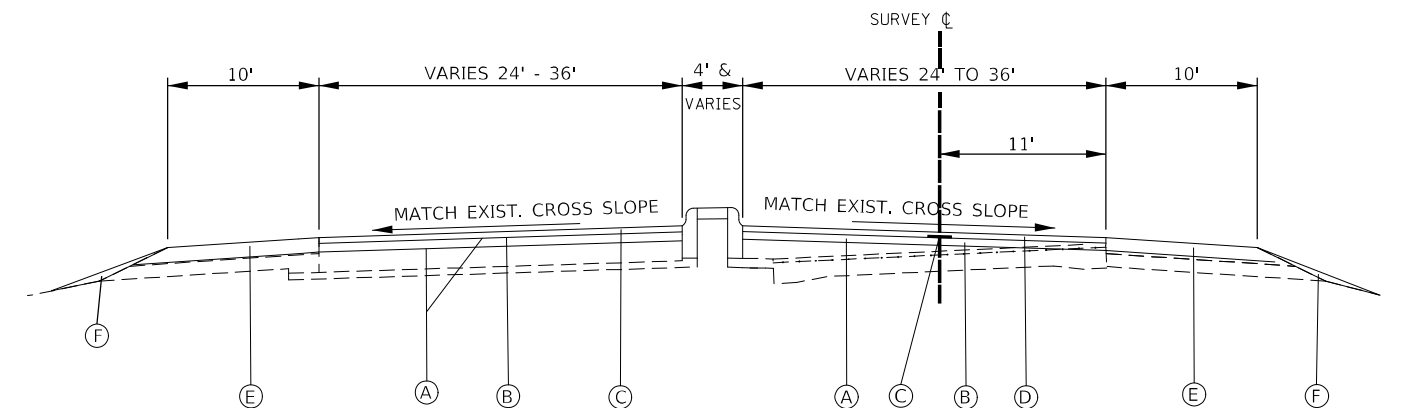
EXISTING TYPICAL SECTION

STA. 1032+81 TO STA. 1049+81



PROPOSED TYPICAL SECTION

STA. 1003+77 TO STA. 1032+81



PROPOSED TYPICAL SECTION

STA. 1032+81 TO STA. 1049+81

*REMOVE/REPLACE MEDIAN FROM STA. 1045+11 TO STA. 1045+46

LEGEND

- ① EXISTING CONCRETE PAVEMENT 10"-8"-10"
- ② EXISTING PCC BASE COURSE, VARIES 9" TO 10"
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, 6"
- ④ EXISTING CONCRETE CURB & GUTTER, TYPE B
- ⑤ EXISTING LEVELING BINDER VARIES 3/4" TO 1 3/4"
- ⑥ EXISTING POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", 1 1/2 "
- ⑦ EXISTING SHOULDERS (STABILIZED)
- ⑧ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑨ EXISTING HMA/ BITUMINOUS SHOULDERS (VARIES 1 1/2" TO 6 1/2")
- ⑩ EXISTING AGGREGATE SHOULDER TYPE B
- ⑪ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING
- ⑫ EXISTING CONCRETE MEDIAN SURFACE 4"
- ⑬ EXISTING CONCRETE GUTTER, TYPE A
- ⑭ EXISTING BITUMINOUS RESURFACING
- ⑮ EXISTING SHOULDER RUMBLE STRIPS
- ⑯ EXISTING AGGREGATE SHOULDER, TYPE A, 6"

- ⑰ EXISTING 5' PORTLAND CEMENT CONCRETE SIDEWALK 4"
- ⑱ EXISTING STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑲ EXISTING PAVEMENT 9"-7"-9"
- ⑳ EXISTING GRASS MEDIAN
- ㉑ EXISTING RESURFACING 4-1/4" +/-
- ㉒ EXISTING AGGREGATE SHOULDER
- (A) PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- (B) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (C) PROPOSED LONGITUDINAL JOINT SEALANT
- (D) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90, 1 1/2"
- (E) PROPOSED HOT-MIX ASPHALT SHOULDERS, 3 3/4"
- (F) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (G) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A

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DRAWN -	REVISIONS -	
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PLOT DATE = 2/16/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	30-ZRS-3	MADISON	45	12
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

SHOULDER SCHEDULE

LOCATION			LANE	LENGTH	WIDTH	AREA	AREA	BITUMINOUS MATERIALS (TACK COAT)	HMA SURFACE REMOVAL, 3 3/4"	HMA SHOULDERS	AGGREGATE WEDGE SHOULDER, TYPE B	EXCAVATING & GRADING EX. SHLD
STA.	TO	STA.	SB/NB	FOOT	FOOT	SQ FT	SQ YD	POUND	SQ YD	TON	TON	UNIT
958+45	TO	961+05	SB/NB	260	8	4160	462.2	416	924.4	194.1	5.1	
961+05	TO	964+59	SB/NB	354	6	4248	472.0	425	944.0	198.2	6.9	
964+59	TO	974+45	SB/NB	986	6	11832	1314.7	1183	2629.4	552.2	19.3	
974+45	TO	980+75	SB/NB	630	6	7560	840.0	756	1680.0	352.8	12.4	
980+75	TO	983+45	SB/NB	270	8	4320	480.0	432	960.0	201.6	5.3	
983+45	TO	984+02	SB/NB	57	8	912	101.3	91	202.6	42.5	1.1	
984+02	TO	988+82										
BRIDGE OMISSION												
988+82	TO	991+85	SB/NB	303	4	2424	269.3	242	538.6	113.1	5.9	
991+85	TO	993+40	SB/NB	155	0							
993+40	TO	996+20										
IL 162 INTERSECTION OMISSION												
996+20	TO	998+95	SB/NB	275	6	3300	366.7	330	733.4	154.0	5.4	
998+95	TO	1003+77	SB/NB	482	6	5784	642.7	578	1285.4	269.9	9.5	
1003+77	TO	1027+00	SB/NB	2323	3	13938	1548.7	1394	3097.4	650.5	45.6	23
1027+00		1032+81	SB/NB	581	8	9296	1032.9	930	2065.8	433.8	11.4	
1032+81	TO	1043+00	SB/NB	1019	4	8152	905.8	815	1811.6	380.4	20.0	
1043+00	TO	1046+11										
HORSESHOE LAKE RD INTERSECTION OMISSION												
1046+11	TO	1049+81	SB/NB	370	10	7400	822.2	740	1644.4	345.3	7.3	
TOTAL							9258.5	8332	18517.0	3888.4	155.2	23

RESURFACING SCHEDULE

LOCATION		LENGTH	WIDTH	BITUMINOUS MATERIAL (TACK COAT)	HMA SURFACE REMOVAL, 3 3/4"	HMA BINDER COURSE, IL-19.0, N90, 2 1/4"	HMA SURFACE COURSE, IL-9.5, MIX "D", N90, 1 1/2"	LONGITUDINAL JOINT SEALANT	MATERIAL TRANSFER DEVICE	
STA	TO	STA	FOOT	FOOT	POUND	SQ YD	TON	TON	FOOT	TON
IL 111										
958+45	TO	960+96	251	44	828	1227.1	154.6	103.1	502	257.7
960+96	TO	964+59	363	40	1089	1613.3	203.3	135.5	726	338.8
964+59	TO	974+45	986	24	1775	2629.3	331.3	220.9	1972	552.2
974+45	TO	982+71	826	40	2478	3671.1	462.6	308.4	1652	771.0
982+71	TO	984+02	131	50	491	727.8	91.7	61.1	262	152.8
984+02	TO	988+82								
BRIDGE OMISSION										
988+82	TO	990+88	206	30	464	686.7	86.5	57.7	412	144.2
990+88	TO	991+15	27	50	101	150.0	18.9	12.6	54	31.5
991+15	TO	992+41	126	51	482	714.0	90.0	60.0	252	150.0
992+41	TO	993+31	90	52	351	520.0	65.5	43.7	180	109.2
993+31	TO	995+96	265	34	676	1001.1	126.1	84.1	530	210.2
995+96	TO	996+47	51	34	130	192.7	24.3	16.2	102	40.5
996+47	TO	998+49	202	37.5	568	841.7	106.1	70.7	404	176.8
998+49	TO	1000+05	156	36	421	624.0	78.6	52.4	312	131.0
1000+05	TO	1002+05	200	23.5	353	522.2	65.8	43.9	400	109.7
1002+05	TO	1003+77	172	23.5	303	449.1	56.6	37.7	344	94.3
1003+77	TO	1032+81	2904	50	10890	16133.3	2032.8	1355.2	5808	3388.0
1032+81	TO	1049+81	1700	24	3060	4533.3	571.2	380.8	3400	952.0
TOTAL					24460	36236.7	4565.9	3044.0	17312	7609.9

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/16/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	13
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

TEMPORARY RAMP					
LOCATION			WIDTH	LENGTH	TEMPORARY RAMPS
STA	NAME	RT/LT	FOOT	FOOT	SQ YD
967+90	LILY AVE	LT	95	2	21.1
971+10	BRUENE AVE	RT	56	2	12.4
974+00	REVELLE LN	LT	34	2	7.6
994+20	IL-162	LT	110	2	24.4
994+20	IL-162	RT	74	2	16.4
999+00	ZIPS CAR WASH	LT	68	2	15.1
1002+20	SAMS RD	LT	82	2	18.2
1026+30	VELCI WAY	LT	45	2	10.0
1044+50	HORSESHOE LAKE RD	RT	50	2	11.1
1044+50	HORSESHOE LAKE RD	LT	71	2	15.8
TOTAL					152.1

GUARDRAIL SCHEDULE											
LOCATION			DIRECTION	IN THE DIRECTION OF TRAVEL	LENGTH OF GUARDRAIL	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT EACH	TYPE 2 EACH	TERMINAL MARKER - DIRECT APPLIED EACH	GUARDRAIL REFLECTORS, TYPE A (WHITE) EACH
STA	TO	STA	NB/SB	LT/RT	FOOT	FOOT					
1030+37	TO	1035+37	SB	RT	500	500	462.5	1	1	1	5
TOTAL						500	463	1	1	1	5

CLASS B PATCHING SCHEDULE (FULL DEPTH, 13")										
LOCATION	LANE	LANE	LENGTH	WIDTH	CLASS B PATCH TYPE II	CLASS B PATCH TYPE IV	DOWEL BARS 1 1/2 inch	TIE BARS 3/4"	WELDED WIRE REINFORCEMENT	SAWCUT
STA	NB/SB		FOOT	FOOT	SQ YD	SQ YD	EACH	EACH	SQ YD	FOOT
968+50	NB	1	4	12	5.3		20			44
969+25	NB	1	4	12	5.3		20			44
988+60	NB	1	10	11	12.2		20			53
993+50	NB	1	200	12		266.7	20	66	266.7	436
1016+50	NB	1	70	6		46.7	20	23	46.7	158
1018+10	NB	1	40	6		26.7	20	13	26.7	98
1021+80	NB	1	60	6		40.0	20	19	40.0	138
1023+50	NB	1	70	6		46.7	20	23	46.7	158
1041+00	NB	2	50	12		66.7	20	16	66.7	136
1043+00	NB	2	55	12		73.3	20	18	73.3	146
1044+00	NB	2	30	12		40.0	20	9	40.0	96
1044+50	NB	1	30	10		33.3	20	9	33.3	90
1044+50	NB	2	30	10		33.3	20	9	33.3	90
1045+40	NB	2	140	13		202.2	20	46	202.2	319
1046+50	NB	2	40	12		53.3	20	13	53.3	116
1047+00	NB	2	25	12		33.3	20	8	33.3	86
1047+50	NB	2	35	12		46.7	20	11	46.7	106
1048+50	NB	2	25	12		33.3	20	8	33.3	86
963+40	SB	1	10	12	13.3		20			56
968+50	SB	1	4	12	5.3		20			44
969+25	SB	1	4	12	5.3		20			44
993+50	SB	1	200	12		266.7	20	66	266.7	436
1010+90	SB	1	22	6	14.7		20	7		62
1012+26	SB	1	6	12	8.0		20			48
1043+10	SB	1	200	13		288.9	20	66	288.9	439
1043+10	SB	2	200	13		288.9	20	66	288.9	439
SUB-TOTAL					69.4	1886.7	520	496	1886.7	3968
15% ALLOWANCE FOR FAILURE					10.4	283.0	78	74	283.0	595
TOTAL					79.8	2169.7	598	570	2169.7	4563

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -					582	(6-1,6-2)RS-3	MADISON	45	14
PLOT DATE = 2/16/2023	CHECKED -	REVISED -		SCALE:	SHEET 2	OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 76M82		
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

PAVEMENT MARKING SCHEDULE

LOCATION		LENGTH	THERMOPLASTIC /TEMPORARY PAVEMENT MARKING LINE, 6"										THERMOPLASTIC /TEMPORARY PAVEMENT MARKING		
			SKIP-DASH YELLOW CENTER LINE	SOLID YELLOW			DOUBLE YELLOW	DIAGONAL YELLOW 12"	SKIP-DASH WHITE	SOLID WHITE		WHITE	WHITE	TURN ARROWS	
				FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	LANE LINE	EDGE LINE	LANE LINE	MEDIAN	STOP BAR	RIGHT /LEFT
STA.	TO	STA.	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
IL - 111															16
958+45	TO	960+05	160		319					58	321	90			
960+05	TO	963+55	350			88					700				
960+05	TO	963+55	350		454			492	5		700				
963+55	TO	964+45	90	23							180				
964+45	TO	971+20	675	169							1350				
971+20	TO	981+80	1060	265			1060				2120				
981+80	TO	984+02	222				222	222			444				
BRIDGE OMISSION															
984+02	TO	990+35	633					612	27		1266				
990+35	TO	991+85	150					600	25	38	300				
991+85	TO	993+91	206					412			412	206		11	26
993+91	TO	994+11	20								40	20		23	
IL 111/162 INTERSECTION															
995+12	TO	995+34	22					390			44	22		12	
995+34	TO	997+29	195					480	37		390	195		12	16
997+29	TO	998+49	120					2080	198	30	240				
998+49	TO	1003+69	520								1040				
1003+69	TO	1003+77	8			8					16				
1003+77	TO	1032+81	2904								5808				
1032+81	TO	1049+81	1700								3400	195			
SUB TOTAL				457	773	318	1282	5066	292	126	18771	533	195	58	58
TOTAL								26336					195	58	58

PAVEMENT MARKING SCHEDULE (CONTINUED)

LOCATION		LENGTH	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING	PAVEMENT MARKING REMOVAL - WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKERS	RAISED REFLECTIVE PAVEMENT MARKERS
STA.	TO	STA.	FOOT	FOOT	SQ FT	SQ FT	EACH
IL - 111							
958+45	TO	960+05	160	82	27	263	6
960+05	TO	963+55	350	179	60	263	13
960+05	TO	963+55	350	179	60	550	13
963+55	TO	964+45	90	46	15	68	3
964+45	TO	971+20	675	346	115	506	25
971+20	TO	981+80	1060	543	181	1148	40
981+80	TO	984+02	222	114	38	296	8
BRIDGE OMISSION							
984+02	TO	990+35	633	325	108	635	24
990+35	TO	991+85	150	77	26	321	6
991+85	TO	993+91	206	106	35	391	8
993+91	TO	994+11	20	10	3	66	1
IL 111/162 INTERSECTION							
995+12	TO	995+34	22	11	4	176	1
995+34	TO	997+29	195	100	33	407	7
997+29	TO	998+49	120	62	21	849	5
998+49	TO	1003+69	520	267	89	347	20
1003+69	TO	1003+77	8	4	1	8	0
1003+77	TO	1032+81	2904	1489	496	1936	109
1032+81	TO	1049+81	1700	872	291	1263	64
SUB TOTAL				4812	1603	9493	353
TOTAL				4812	1603	9493	353

REV. - MS

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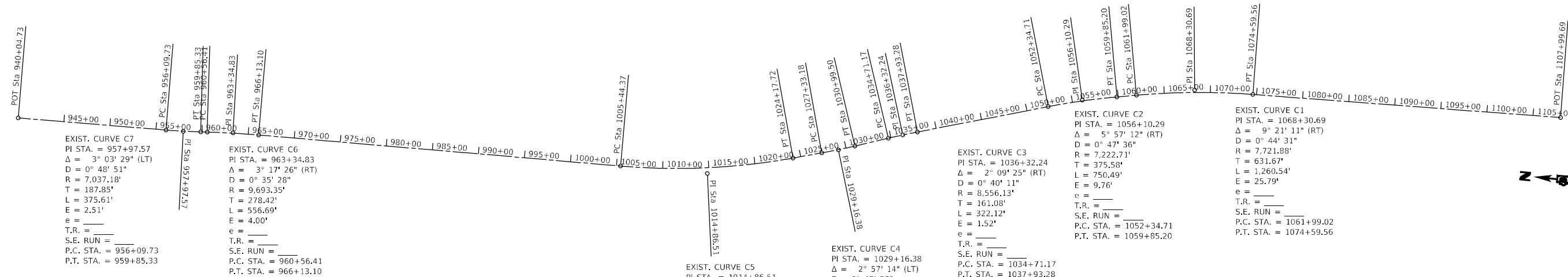
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PLOT DATE = 1/26/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	15
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

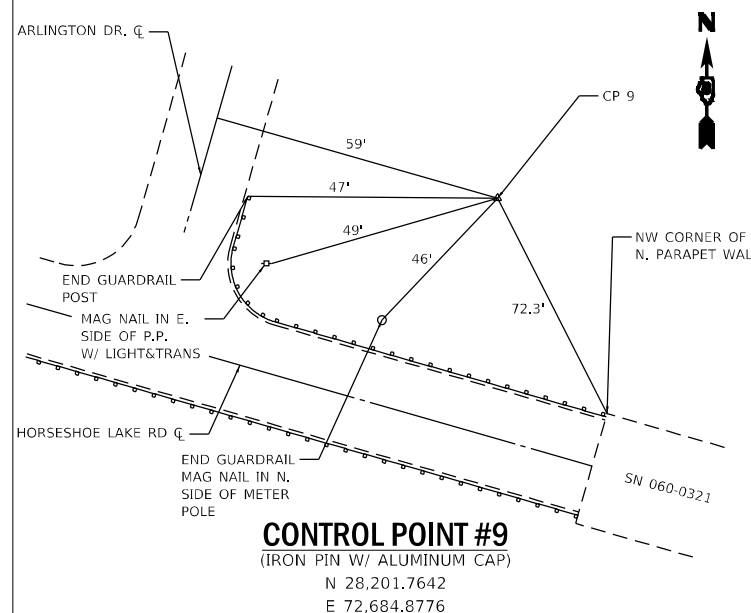
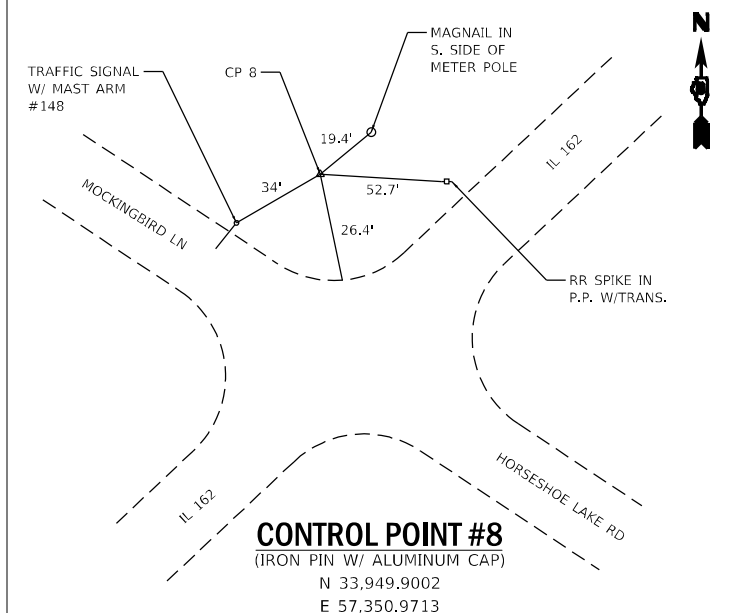
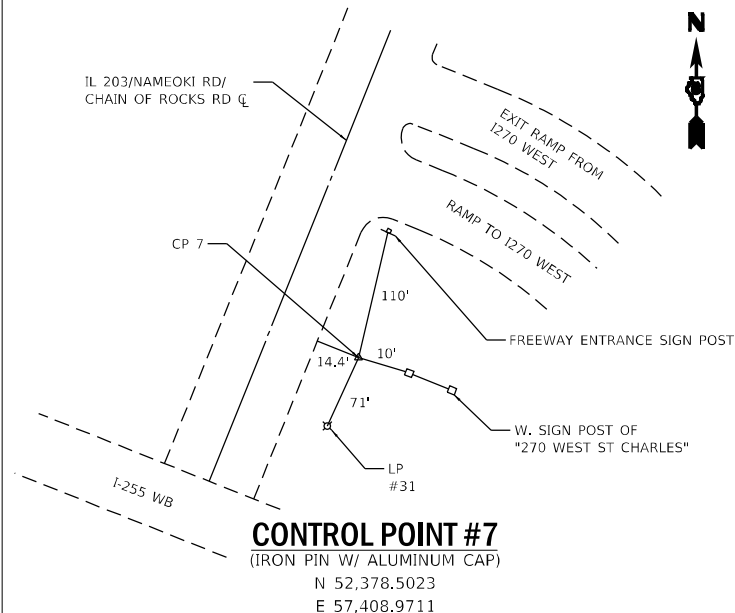
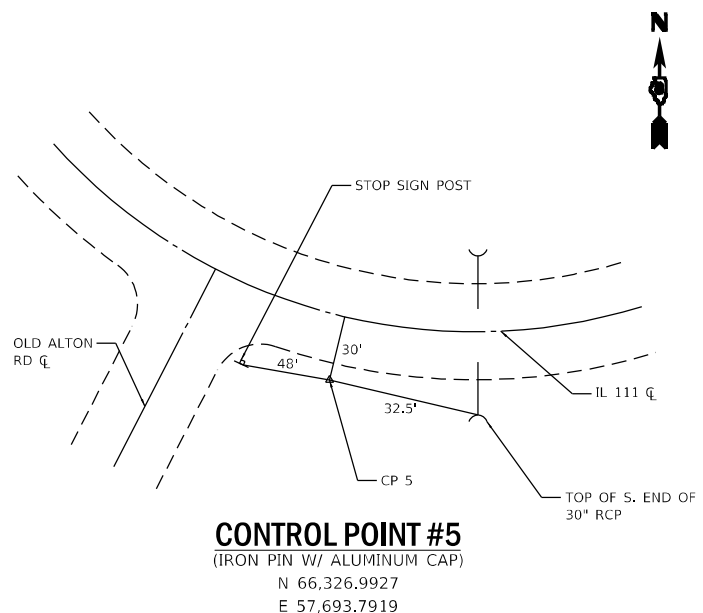


BENCHMARK DATA

B.M. NO.	DESCRIPTION	ELEVATION
BM 12	RR SPIKE SET IN SOUTH SIDE OF PP AT HOUSE #4181	415.852'
BM 12A	CUT □ FOUND ON THE E. SIDE OF THE CONCRETE BASE OF TRAFFIC MAST ARM POLE, LOCATED ON THE SE CORNER OF THE INTERSECTION OF IL 111 AND IL 162	417.681'
BM 12B	TOP HEX BOLT NEXT TO THE "O" IN OPEN ON A FIRE HYDRANT LOCATED ON THE NE CORNER OF THE INTERSECTION OF IL 111 AND REVELLE LANE, IMMEDIATELY S. OF A WOODEN FENCE	418.269'
BM 12C	RAILROAD SPIKE IN THE E SIDE OF A POWER POLE LOCATED ON THE W SIDE OF IL 111, N SIDE OF AN OIL & CHIP ENTRANCE APRON, ACROSS FROM THE NW CORNER OF "MRC GLOBAL" CORPORATION AND APPRX. MIDWAY OF 0.5 MI FROM HORSESHOE LAKE RD. AND IL 162	412.695'
BM 12D	CUT □ FOUND ON THE W. SIDE OF THE CONCRETE BASE OF TRAFFIC LIGHT POLE, LOCATED ON THE NE QUADRANT OF THE INTERSECTION OF IL 111 AND HORSESHOE LAKE RD.	422.274'

ALIGNMENT COORDINATES - IL 111			
	STATION	N	E
POT	940+04.73 R1	43,579.1650	63,707.5262
PC	956+09.73 R1	41,974.3107	63,728.8921
PT	959+85.33 R1	41,599.0497	63,743.9105
PC	960+56.41 R1	41,528.1287	63,748.6470
PT	966+13.10 R1	40,971.9195	63,769.7776
PC	1005+44.37 R1	37,040.8118	63,806.1700
PT	1024+17.72 R1	35,191.4439	64,068.8343
PC	1027+33.18 R1	34,887.6642	64,153.8615
PT	1030+99.50 R1	34,537.5972	64,261.6487
PC	1034+71.17 R1	34,185.3285	64,380.1373
PT	1037+93.28 R1	33,878.1592	64,477.0599
PC	1052+34.71 R1	32,495.6184	64,884.8496
PT	1059+85.20 R1	31,766.0657	65,059.4217
PC	1061+99.02 R1	31,555.8073	65,098.3163
PT	1074+59.56 R1	30,303.1221	65,225.6439
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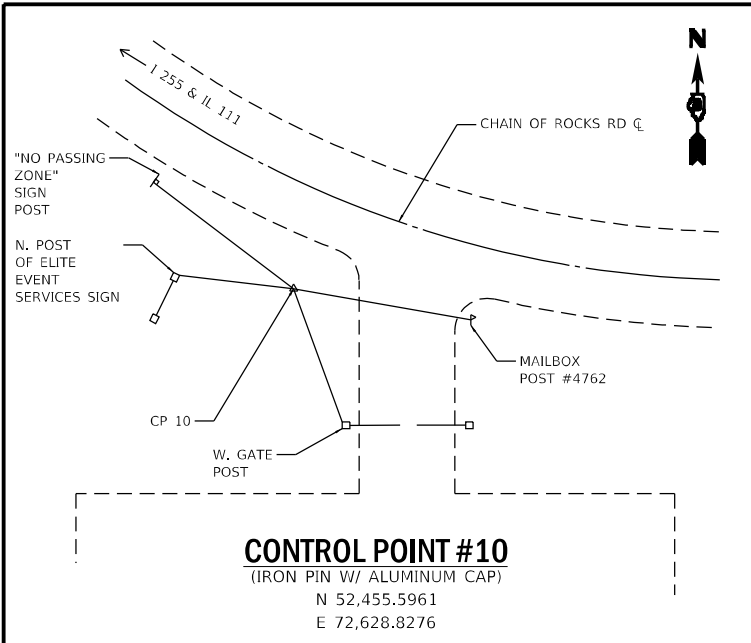
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PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

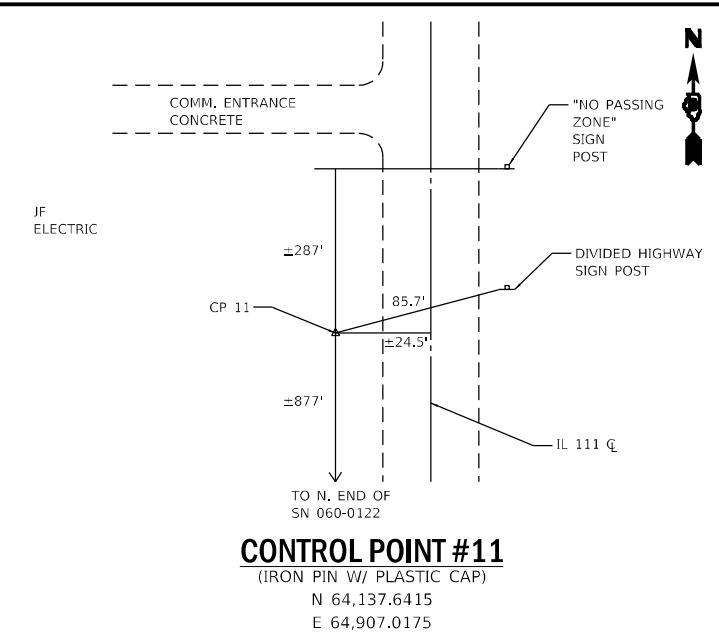
ALIGNMENT, TIES, & BENCHMARKS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

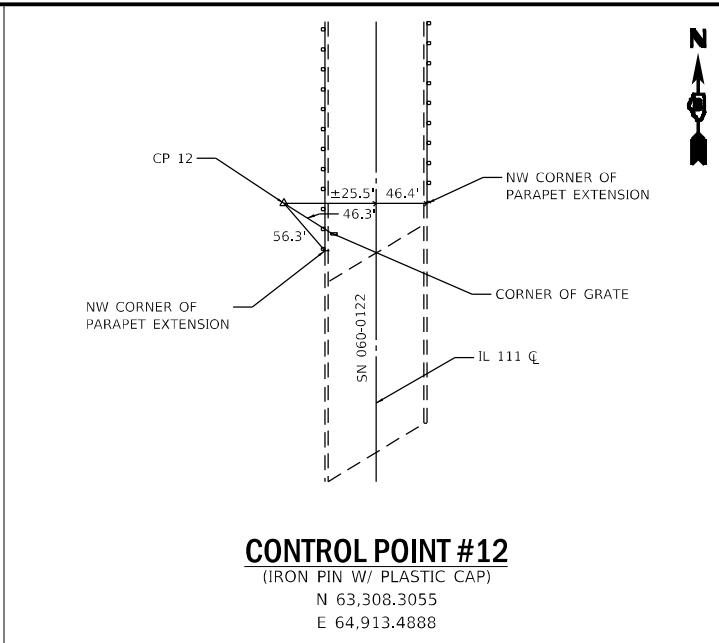
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CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				



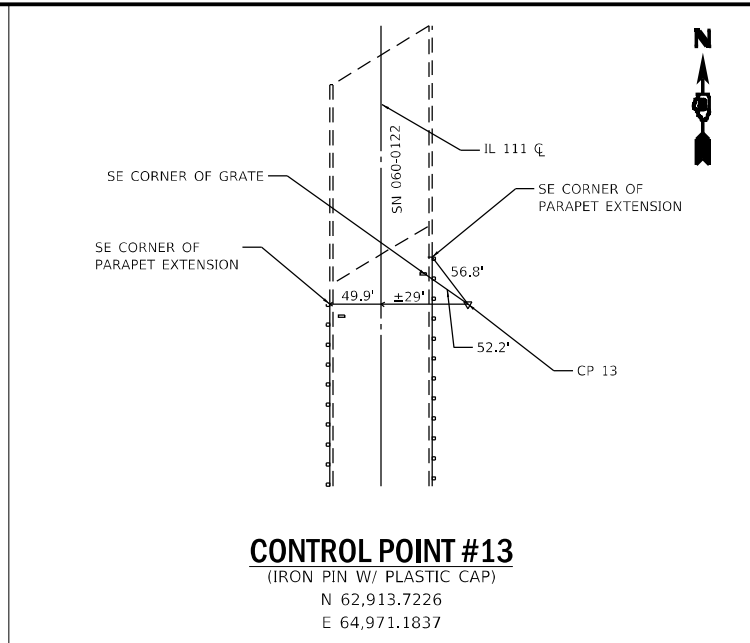
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E 72,628.8276



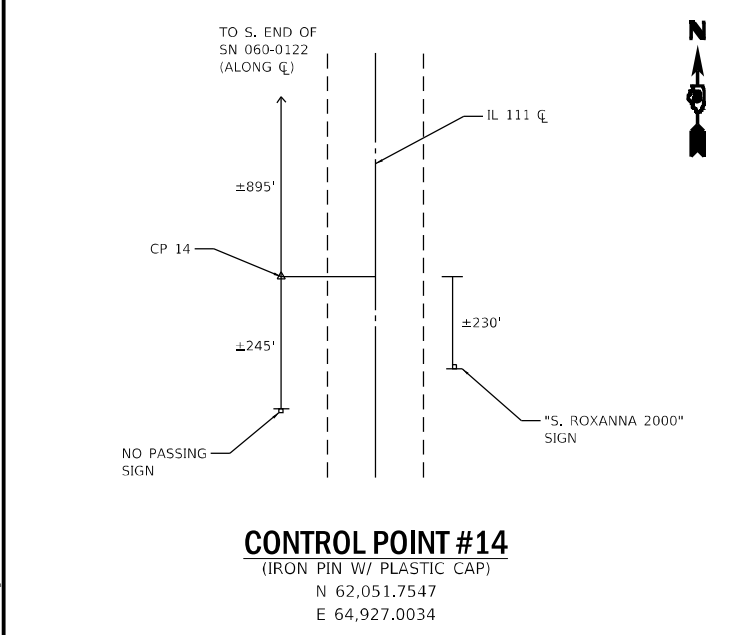
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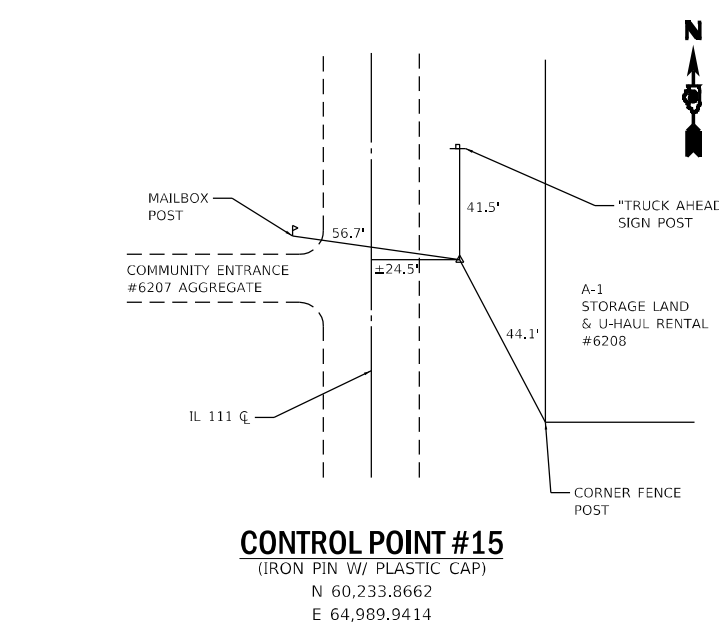
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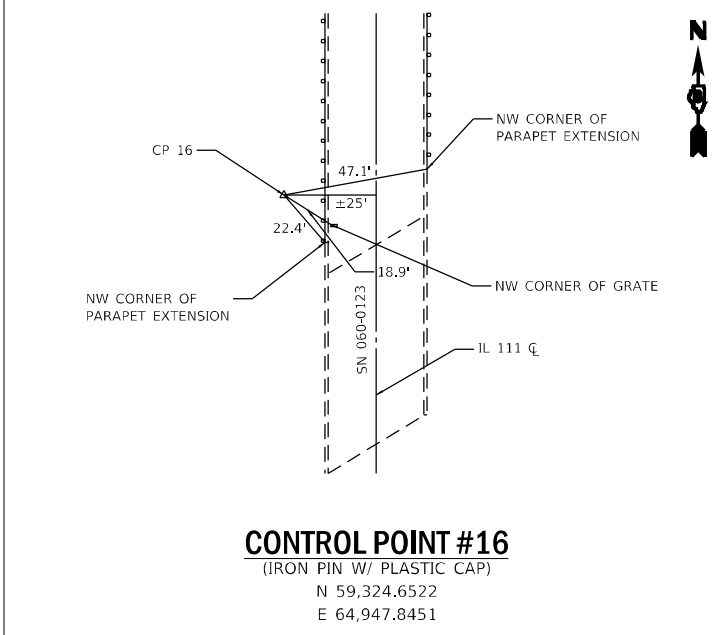
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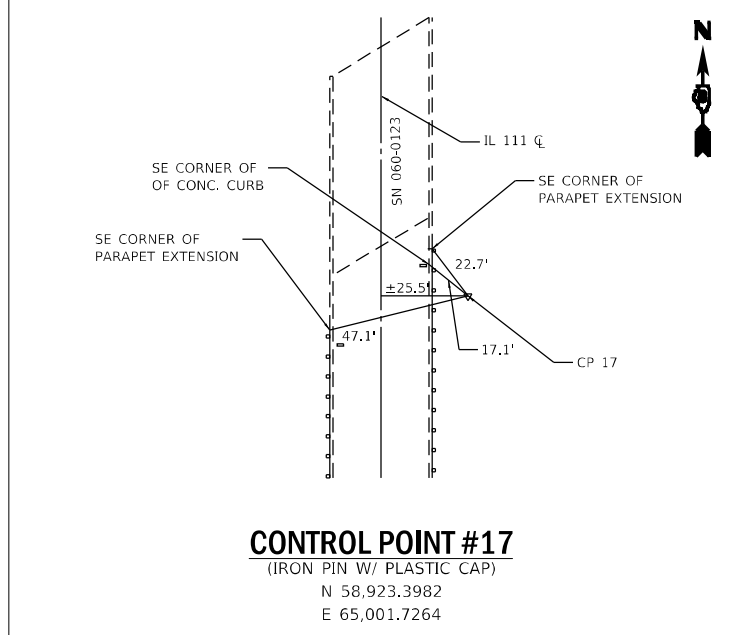
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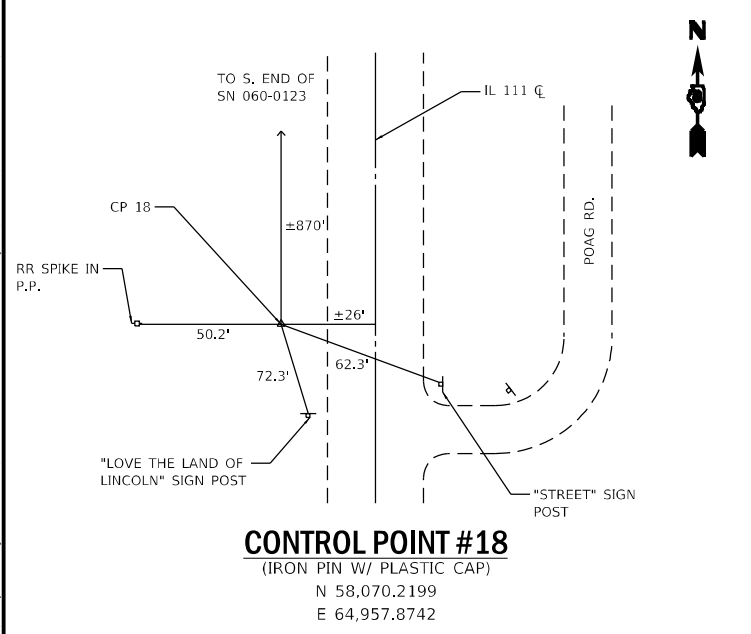
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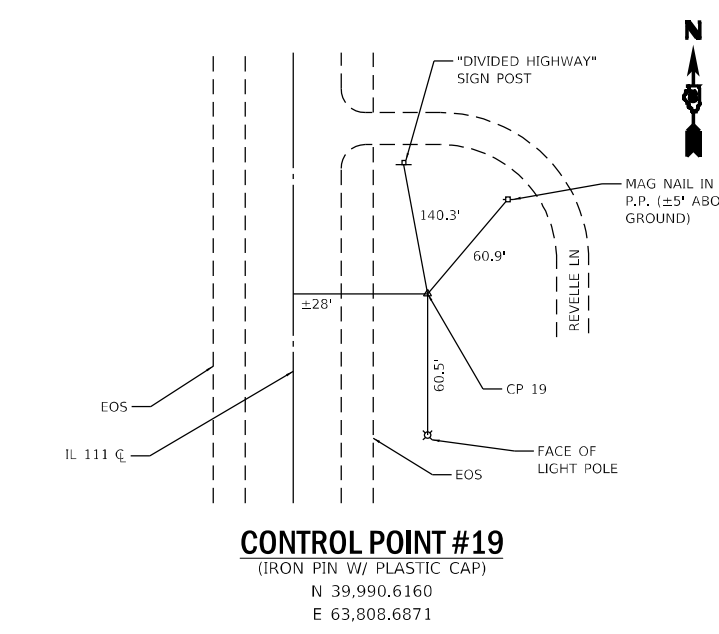
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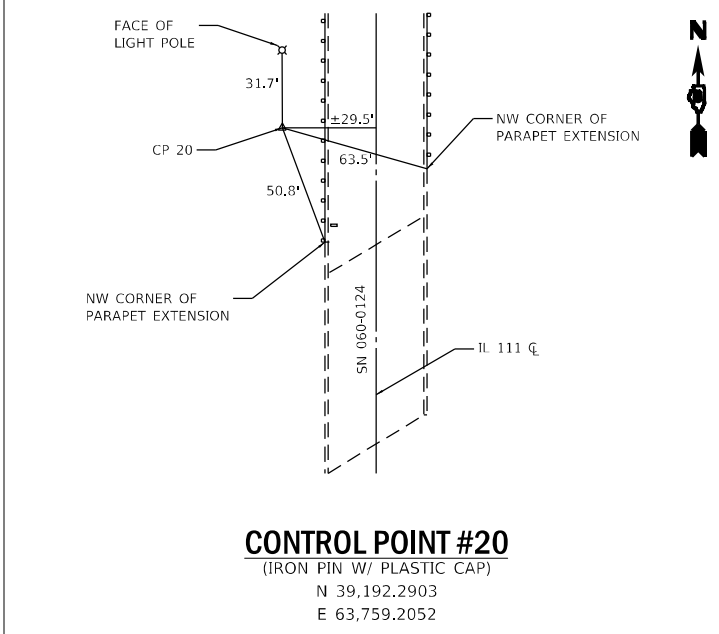
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E 65,001.7264



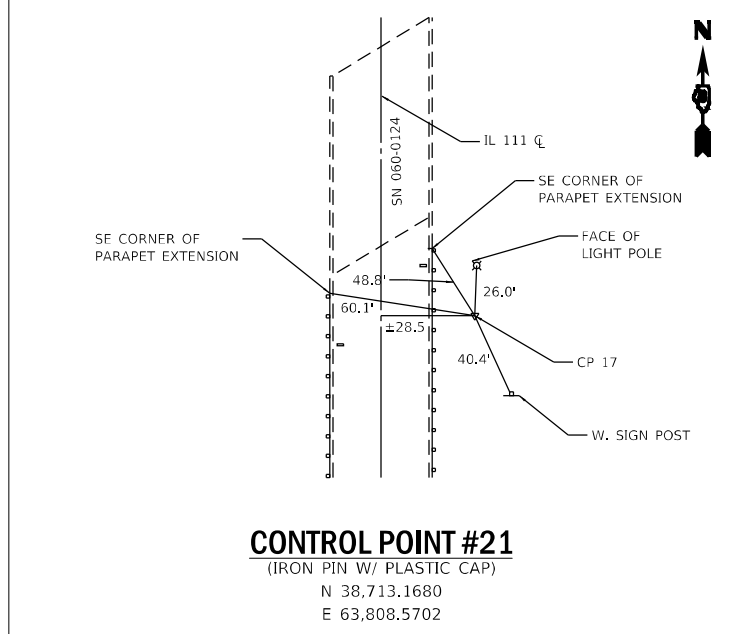
CONTROL POINT #18
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E 64,957.8742



CONTROL POINT #19
(IRON PIN W/ PLASTIC CAP)
N 39,990.6160
E 63,808.6871



CONTROL POINT #20
(IRON PIN W/ PLASTIC CAP)
N 39,192.2903
E 63,759.2052



CONTROL POINT #21
(IRON PIN W/ PLASTIC CAP)
N 38,713.1680
E 63,808.5702

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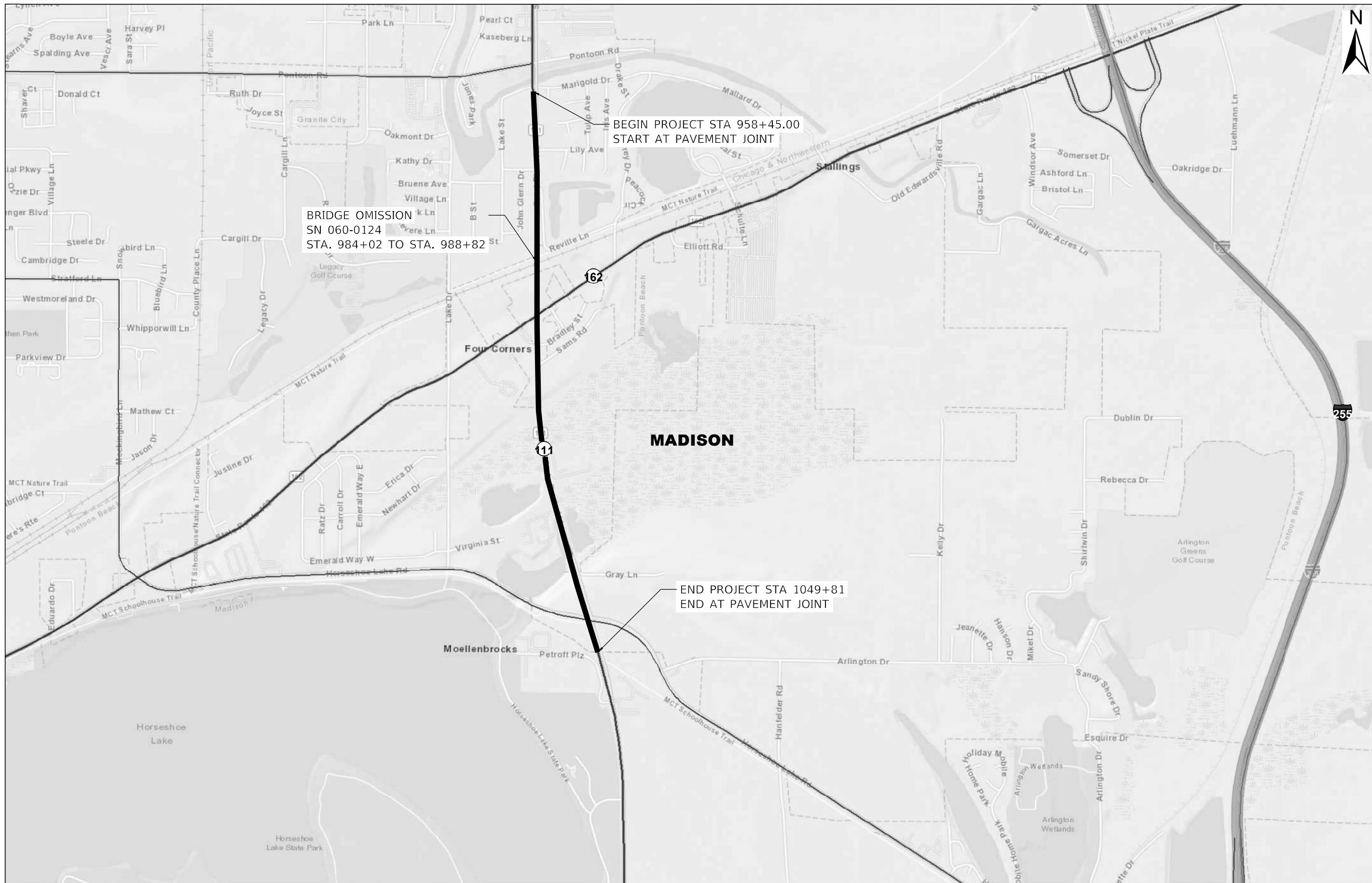
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, & BENCHMARKS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	17
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				



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PLOT SCALE = 2.0007" / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	18
				CONTRACT NO. 76M82
ILLINOIS FED. AID PROJECT				

**ADA
INDEX OF SHEETS**

1	ADA BILL OF MATERIALS AND NOTES
2-4	SCHEDULE OF QUANTITIES
5	TYPICAL SECTIONS
6	ALIGNMENT, TIES & BENCHMARKS
7	INTERSECTION PLAN SHEET
8	OMITTED
9	ADA CURB RAMP DETAIL
10	OMITTED
11	CORNER ISLAND DETAILS
12	EROSION & SEDIMENT CONTROL SHEET
13	OMITTED
14	PAVEMENT MARKING & SIGNAGE PLAN SHEET
15	OMITTED
16	MISCELLANEOUS DETAILS
17	MEDIAN PAVEMENT MARKING DETAIL

**ADA
HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSINGS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

**ADA
GENERAL NOTES**

- ALL EXISTING RIGHT OF WAY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT OF WAY, THE PLAN OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- SIDEWALK CLOSURE:**

THE CONTRACTOR SHALL PROVIDE FOR THE SAFE ACCOMMODATION OF PEDESTRIAN TRAFFIC THROUGH THE WORK ZONE DURING CONSTRUCTION. THE CONTRACTOR SHOULD PLAN HIS/HER CONSTRUCTION SO THE DISRUPTION TO THE PEDESTRIAN FACILITIES WILL OCCUR IN THE SHORTEST PRACTICAL TIME POSSIBLE. TEMPORARY BIKE TRAILS SHALL ONLY BE CONSTRUCTED AT THE IL 111/HORSESHOE LAKE RD INTERSECTION AS DIRECTED BY THE ENGINEER.
- THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE ITS OWN FACILITIES (SUCH AS UNDERGROUND CONDUIT AND/OR CABLE FOR TRAFFIC SIGNALS OR HIGHWAY LIGHTING). THE CONTRACTOR, AT HIS/HER OWN EXPENSE, MUST OBTAIN THE SERVICES OF A QUALIFIED ELECTRICAL CONTRACTOR TO LOCATE SUCH STATE-OWNED FACILITIES.
- A QUANTITY OF 29 TON OF COURSE AGGREGATE HAS BEEN ADDED TO THE PLANS IN ORDER TO REMOVE ANY DROP-OFF AREAS, GREATER THAN 12", ADJACENT TO THE EXISTING TRAFFIC LANE AND/OR SHOULDERS. LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
- ALL BARRIER CURB FOR ADA RAMPS IS 6" UNLESS OTHERWISE NOTED.

**ADA
BILL OF MATERIAL**

CODE NUMBER	ITEM	UNIT	QUANTITY
25000200	SEEDING, CLASS 2	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25
25100630	EROSION CONTROL BLANKET	SQ YD	122
28000400	PERIMETER EROSION BARRIER	FOOT	58
35101598	AGGREGATE BASE COURSE, TYPE B 3"	SQ YD	118
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1059
42400800	DETECTABLE WARNINGS	SQ FT	83
44000100	PAVEMENT REMOVAL	SQ YD	38
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	175
44000600	SIDEWALK REMOVAL	SQ FT	150
44003100	MEDIAN REMOVAL	SQ FT	390
44200100	PAVEMENT PATCHING, TYPE II, 16 INCH	SQ YD	11
60609300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	90
60610500	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (ABUTTING EXISTING PAVEMENT)	FOOT	52
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	417
60622800	CONCRETE MEDIAN, TYPE SM-6.12	SQ FT	177
60623200	CONCRETE MEDIAN, TYPE SM-6.24	SQ FT	216
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	18
72000100	SIGN PANEL, TYPE 1	SQ FT	15
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	41
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	271
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	451
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	59
78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	7.5
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	79
78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	10
78200020	CURB REFLECTORS	EACH	32
X0327036	BIKE PATH REMOVAL	SQ YD	122
X0795800	COURSE AGGREGATE	TON	35
X4240420	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, SPECIAL	SQ FT	201
X4403700	MEDIAN REMOVAL (SPECIAL)	SQ FT	88
X7800100	PAINT PAVEMENT MARKING - RAISED MEDIAN	SQ FT	133
X7800200	PAINT PAVEMENT MARKING CURB	FOOT	119
Z0007430	TEMPORARY SIDEWALK	SQ FT	201

**TRAFFIC CONTROL
GENERAL NOTES**

- WHEN USING TRAFFIC CONTROL AND PROTECTION, STANDARD 701701, ONLY DAY TIME CLOSURES WILL BE ALLOWED.
- ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.



TIMOTHY B. PADGETT, PE EXPIRATION DATE 11-30-2023
LICENSE NO. 062-049162

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PLOT DATE = 3/23/2023	DATE - MARCH 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA BILL OF MATERIAL AND NOTES
IL ROUTE 111 & HORSESHOE LAKE RD
SCALE: NTS SHEET 1 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1.6-2)RS-3	MADISON	45	19
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE (FOR INFORMATION ONLY)							
LOCATION			EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)	FURNISHED EXCAVATION
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD	CU YD
IL 111 / HORSESHOE LAKE ROAD							
1045+08.10	TO	1046+35.64	4.9	3.7	13.7	-10.0	9.3
SUB-TOTAL:			5	4	14	-10	
PAY TOTAL:			5				10

SEEDING SCHEDULE								
LOCATION				SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET
STATION	TO	STATION	DESCRIPTION	ACRE	POUND	POUND	POUND	SQ YD
IL 111 / HORSESHOE LAKE RD								
1045+08.10	TO	1045+31.16	RT	0.009	0.8	0.8	0.8	45.2
1045+78.09	TO	1046+35.64	LT	0.016	1.4	1.4	1.4	76.4
TOTAL:				0.03	2.2	2.2	2.2	121.6
PAY TOTAL:				0.25	25	25	25	122

REMOVAL SCHEDULE									
LOCATION				PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	MEDIAN REMOVAL	BIKE PATH REMOVAL	MEDIAN REMOVAL (SPECIAL)
STATION	TO	STATION	NOTES	SQ YD	FOOT	SQ FT	SQ FT	SQ YD	SQ FT
IL 111 / HORSESHOE LAKE ROAD									
1044+62.14	TO	1044+93.84	RT	24.3					
1044+71.92	TO		SW CORNER ISLAND		46.4		85		
1044+98.91	TO	1045+12.79	RT						87.7
1045+12.77	TO	1045+23.94	RT				77		
1045+11.97	TO	1045+24.16	LT	13.9					
1045+12.77	TO	1045+46.43	MEDIAN		33.7				
1045+12.79	TO	1045+46.48	MEDIAN		33.8				
1045+08.17	TO	1045+29.15	RT					57.6	
1045+21.74			SE CORNER ISLAND		61.0		113		
1045+23.92	TO	1045+31.48	RT			62.6			
1045+24.14	TO	1045+34.91	LT			86.9			
1045+31.48	TO	1045+46.43					114		
1045+67.36	TO	1046+31.32	LT					64.1	
TOTAL:				38	175	150	390	122	88

STAGING SCHEDULE					
LOCATION				COURSE AGGREGATE	TEMPORARY SIDEWALK
LOCATION				TON	SQ FT
IL 111 / HORSESHOE LAKE ROAD					
1044+62.14	TO	1044+93.83	RT	8.7	
1044+98.91	TO	1045+46.43	RT	11.4	
1045+11.93	TO	1045+41.02	LT	14.9	
1045+21.19	TO	1045+32.58	RT		80.0
1045+23.94	TO	1045+36.58	LT		121.1
TOTAL:				35	201

PERIMETER EROSION BARRIER SCHEDULE					
LOCATION					PERIMETER EROSION BARRIER
STATION	TO	STATION	NOTES	FOOT	
IL 111 / HORSESHOE LAKE RD					
1045+82.43	TO	1046+35.64	LT	SE QUAD	57.8
TOTAL:					58

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

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PLOT SCALE = 40,0000' / in.	DRAWN - DCL	REVISED -
PLOT DATE = 3/23/2023	CHECKED - TBP	REVISED -
	DATE - MARCH 2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES IL ROUTE 111 & HORSESHOE LAKE RD			
SCALE:	SHEET 2	OF 17	SHEETS
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	20
			CONTRACT NO. 76M82	
			ILLINOIS FED. AID PROJECT	

SIDEWALK, CURB & GUTTER, AND MEDIAN SCHEDULE

LOCATION				AGGREGATE BASE COURSE, TYPE B 3"	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	DETECTABLE WARNINGS	PAVEMENT PATCHING, TYPE II, 16 INCH	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12 (ABUTTING EXISTING PAVEMENT)	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (ABUTTING EXISTING PAVEMENT)	CONCRETE MEDIAN SURFACE, 4 INCH	CONCRETE MEDIAN, TYPE SM-6.12	CONCRETE MEDIAN, TYPE SM-6.24	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, SPECIAL
STATION	TO	STATION	LT/RT	SQ YD	SQ FT	SQ FT	SQ YD	FOOT	FOOT	SQ FT	SQ FT	SQ FT	SQ FT
IL 111 / HORSESHOE LAKE ROAD													
1044+62.14	TO	1044+70.98	RT									40.1	
1044+66.94	TO	1044+71.20	RT						10.4				
1044+67.55	TO	1044+86.79	RT							136.4			
1044+69.37	TO	1044+78.12	RT									37.8	
1044+70.38	TO	1044+87.19	RT					21.1					
1044+78.13	TO	1044+85.91	RT						7.8				
1044+85.92	TO	1044+93.84	RT									35.6	
1044+98.91	TO	1045+21.65	RT								177.4		
1045+08.92	TO	1045+29.15	RT	52.0	467.8	23.3							
1045+11.93	TO	1045+41.02	LT				11.3						
1045+11.97	TO	1045+18.87	LT									36.0	
1045+12.77	TO	1045+21.56	RT							56.3			
1045+16.10	TO	1045+23.28	LT						17.6				
1045+16.71	TO	1045+31.17	LT							124.1			
1045+18.89	TO	1045+34.91	LT						16.0				
1045+21.15	TO	1045+46.46	RT					25.3					
1045+21.19	TO	1045+32.58	RT										80.0
1045+21.46	TO	1045+29.00	LT									31.9	
1045+21.60	TO	1045+46.43	RT					24.8					
1045+23.94	TO	1045+36.58	LT			40.0							121.1
1045+28.13	TO	1045+37.16	LT					18.4					
1045+32.58	TO	1045+46.43	RT							100.4			
1045+34.81	TO	1045+41.06	LT									34.2	
1045+70.61	TO	1046+31.32	LT	65.7	591.1	20.0							
TOTAL:				118	1059	83	11	90	52	417	177	216	201

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = dllee
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 DATE - MARCH 2022

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
 IL ROUTE 111 & HORSESHOE LAKE RD**

SCALE: SHEET 3 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	21
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING SCHEDULE

DESCRIPTION					THERMOPLASTIC PAVEMENT MARKING			PAINT PAVEMENT MARKING		PAINT PAVEMENT MARKING - RAISED MEDIAN	PAINT PAVEMENT MARKING CURB	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
					LINE 6"	LINE 12"	LINE 24"	LINE 4"	LINE 12"			
					WHITE FOOT	WHITE FOOT	WHITE FOOT	YELLOW FOOT	WHITE FOOT			
STATION	TO	STATION	LOCATION	TYPE						SQ FT	FOOT	SQ FT
IL 111 / HORSESHOE LAKE ROAD												
1044+62.14	TO	1044+70.98	SW CORNER ISLAND NOSE							12.7		
1044+66.94	TO	1044+71.20									10.4	
1044+69.37	TO	1044+78.12	SW CORNER ISLAND NOSE							19.5		
1044+78.13	TO	1044+85.91									7.8	
1044+70.38	TO	1044+87.19									21.1	
1044+85.92	TO	1044+93.84	SW CORNER ISLAND NOSE							11.6		
1044+98.91	TO	1045+12.77	MEDIAN NOSE							46.1		
1045+11.97	TO	1045+18.87	SE CORNER ISLAND NOSE							13.4		
1045+12.77	TO	1045+46.43									23.7	
1045+12.79	TO	1045+46.46									23.8	
1045+13.40	TO	1045+23.22	CENTERLINE	SINGLE				31.8				
1045+16.10	TO	1045+23.28									17.6	
1045+17.82	TO	1045+35.31	CROSSWALK	SINGLE	184.0	308.0						
1045+18.89	TO	1045+34.91									6.0	
1045+21.46	TO	1045+29.00	SE CORNER ISLAND NOSE							13.1		
1045+23.22	TO	1045+28.21	STOP LINE	SINGLE					5.0			
1045+34.81	TO	1045+41.06	SE CORNER ISLAND NOSE							17.0		
1045+37.17	TO	1045+39.13	STOP LINE	SINGLE			37.8					
1045+37.91	TO	1045+70.20	CROSSWALK	SINGLE	87.4	143.0						
1045+46.43	TO	1045+37.16									8.4	
1045+64.54	TO	1045+75.37	STOP LINE	SINGLE			20.8					
1045+84.06	TO	1045+85.96	STOP LINE	SINGLE					5.0			
1045+85.96	TO	1046+30.65	CENTERLINE	SINGLE				46.7				
1045+90.85												7.5
TOTAL:					271	451	59	79	10	133	119	7.5

SIGNAGE SCHEDULE

LOCATION	DESCRIPTION						REMOVE SIGN PANEL ASSEMBLY - TYPE A	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT
	STATION	SIGN	SHAPE	SIZE	EACH	EACH	SQ FT	FOOT	EACH		
IL 111 / HORSESHOE LAKE ROAD											
1045+19.88	5.99	RT	EX. R4-7C				1		10.2	1	
1045+82.73	84.61	LT	R1-1 (STOP)	REC	18	X	18		2.25	12.2	
1045+82.90	81.79	LT	STOP				1				
1045+92.22	66.40	LT	W11-15 (BICYCLE/PEDS)	REC	30	X	30		6.25	18.7	
			W11-15p (TRAIL X-ING)	REC	24	X	18		3.00		
			W16-7p (DIAGONAL ARROW)	REC	18	X	24		3.00		
1046+36.52	51.31	LT	BIKE TRAIL X-ING				1				
TOTAL:					2	1	15	41	1		

CURB REFLECTORS

LOCATION	CURB REFLECTORS	
LOCATION	EACH	
IL 111 / HORSESHOE LAKE RD		
MEDIAN	RT	5
SE CORNER ISLAND	LT	14
SW CORNER ISLAND	RT	13
TOTAL:		32

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IL DESIGN FIRM LICENSE NO: 184-001220	CHECKED - TBP	REVISED -
PLOT SCALE = 40,0000 * / in.	DATE - MARCH 2022	REVISED -
PLOT DATE = 3/23/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
IL ROUTE 111 & HORSESHOE LAKE RD**

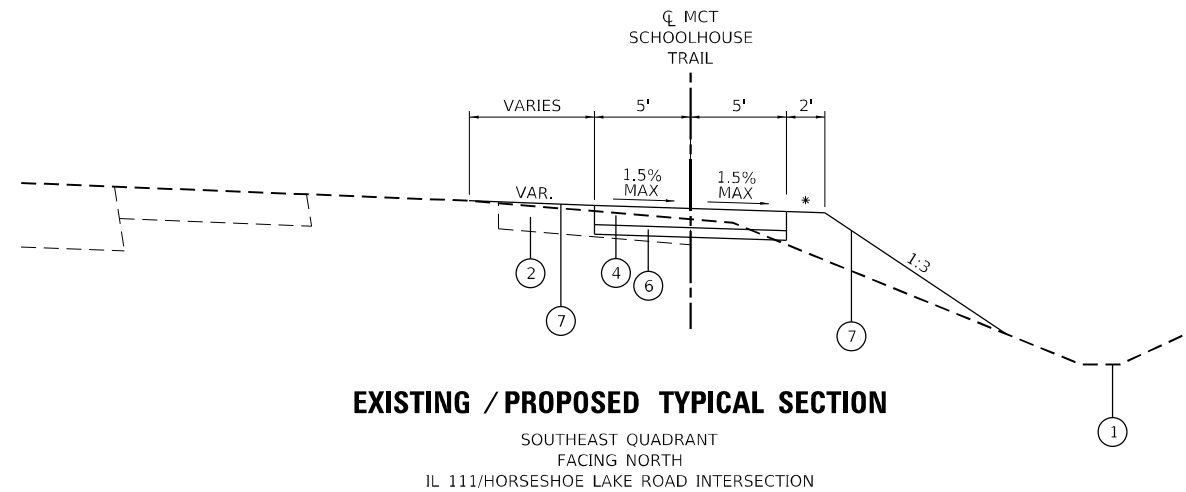
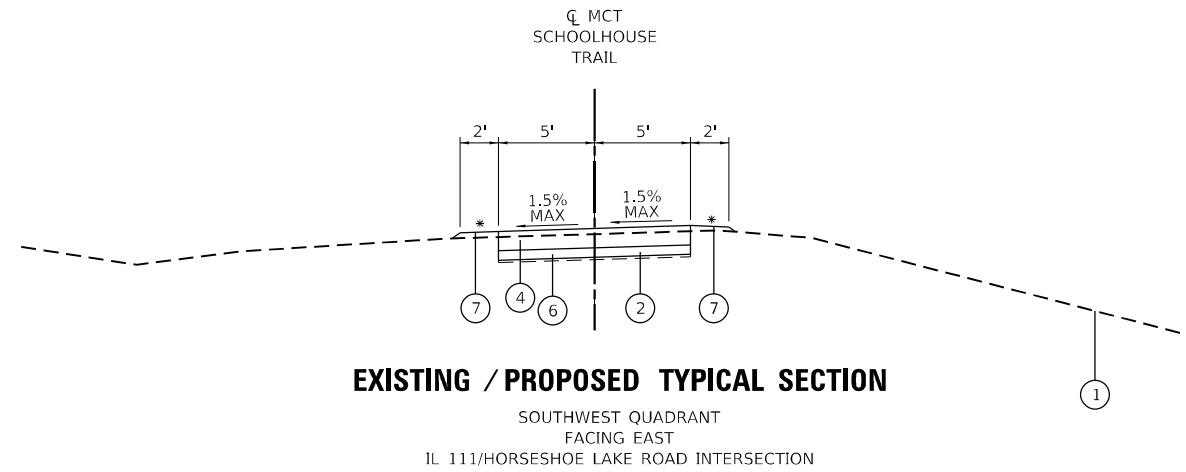
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	22
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

LEGEND

- ① EX. GROUND
- ② EX. BICYCLE TRAIL
- ③ NOT USED
- ④ PR. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
- ⑤ NOT USED
- ⑥ PR. AGGREGATE BASE COURSE, TYPE B, 3"
- ⑦ PR. EARTH/FURNISHED EXCAVATION (SEE SPECIAL PROVISION)

* 2%-4% SHOULDER SLOPE



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LICENSE NO:
184-001220

USER NAME = dllee	DESIGNED - MLS	REVISED -
PLOT SCALE = 10,0000 * / in.	DRAWN - DCL	REVISED -
PLOT DATE = 3/23/2023	CHECKED - TBP	REVISED -
	DATE - MARCH 2022	REVISED -

	DESIGNED -	REVISED -
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	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

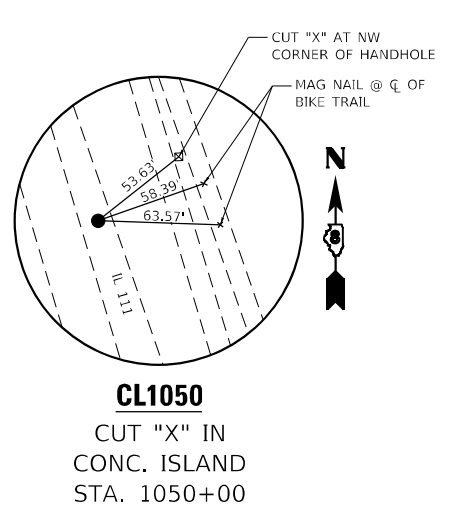
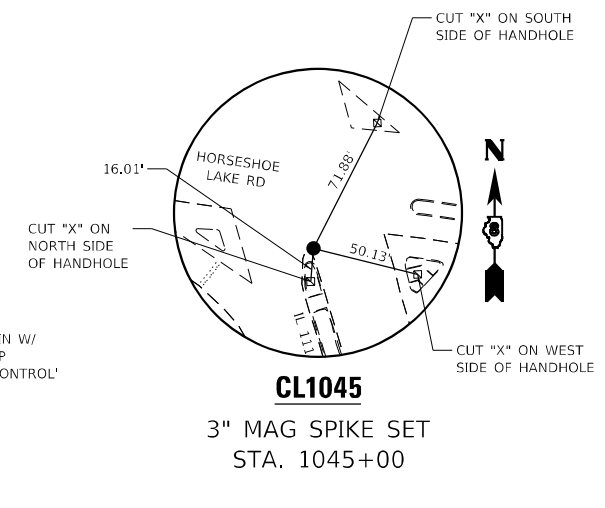
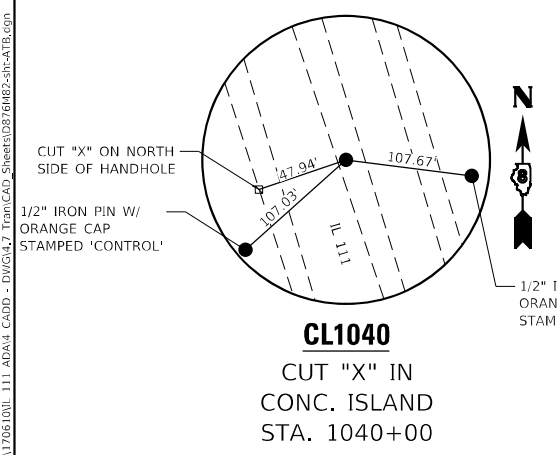
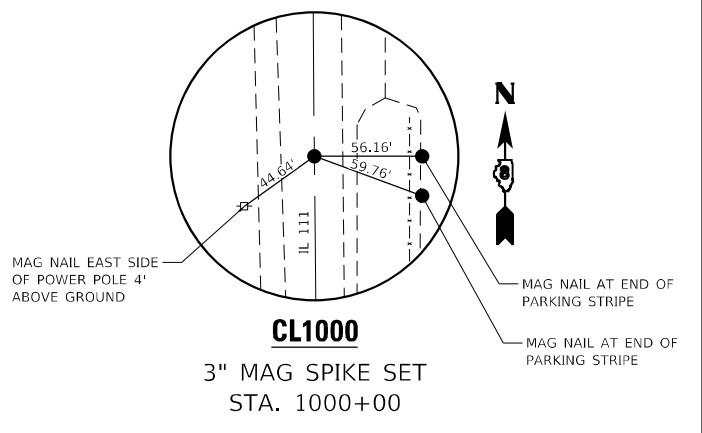
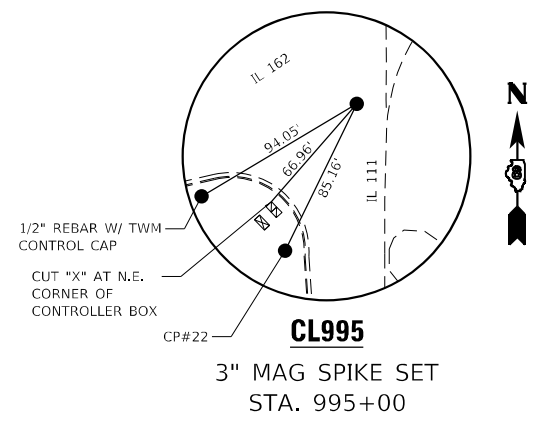
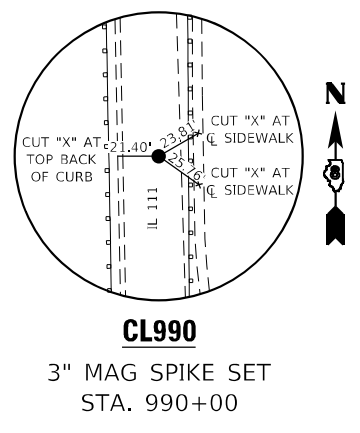
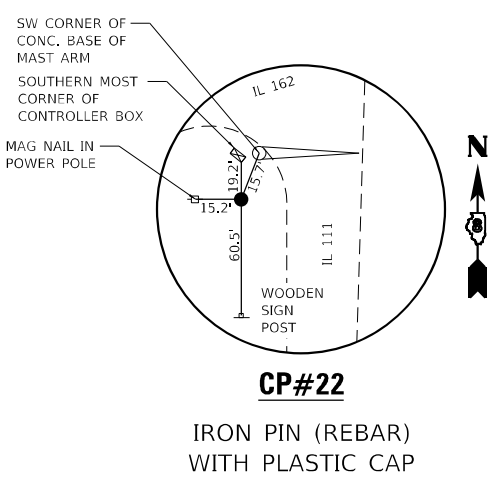
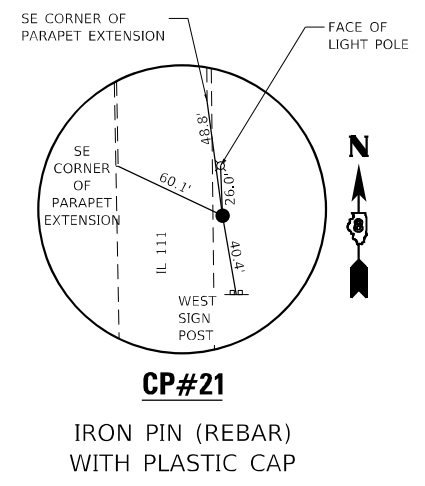
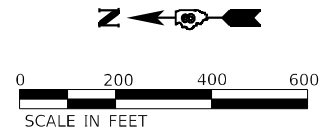
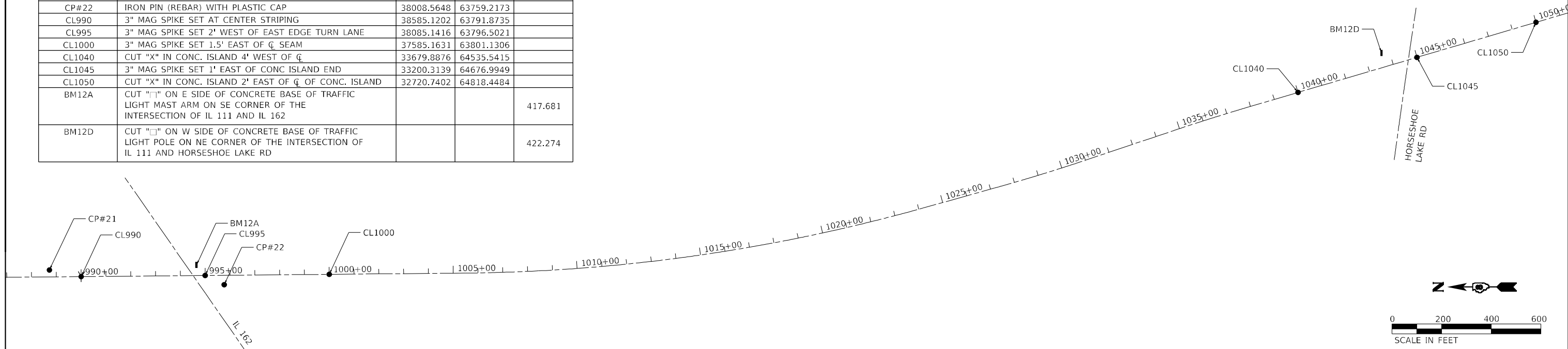
**TYPICAL SECTIONS
IL ROUTE 111 & HORSESHOE LAKE RD**

SCALE: SHEET 5 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	23
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

CONTROL POINTS & BENCHMARKS

POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP#21	IRON PIN (REBAR) WITH PLASTIC CAP	38713.1680	63818.5702	
CP#22	IRON PIN (REBAR) WITH PLASTIC CAP	38008.5648	63759.2173	
CL990	3" MAG SPIKE SET AT CENTER STRIPING	38585.1202	63791.8735	
CL995	3" MAG SPIKE SET 2' WEST OF EAST EDGE TURN LANE	38085.1416	63796.5021	
CL1000	3" MAG SPIKE SET 1.5' EAST OF C SEAM	37585.1631	63801.1306	
CL1040	CUT "X" IN CONC. ISLAND 4' WEST OF C	33679.8876	64535.5415	
CL1045	3" MAG SPIKE SET 1' EAST OF CONC ISLAND END	33200.3139	64676.9949	
CL1050	CUT "X" IN CONC. ISLAND 2' EAST OF C OF CONC. ISLAND	32720.7402	64818.4484	
BM12A	CUT "□" ON E SIDE OF CONCRETE BASE OF TRAFFIC LIGHT MAST ARM ON SE CORNER OF THE INTERSECTION OF IL 111 AND IL 162			417.681
BM12D	CUT "□" ON W SIDE OF CONCRETE BASE OF TRAFFIC LIGHT POLE ON NE CORNER OF THE INTERSECTION OF IL 111 AND HORSESHOE LAKE RD			422.274



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PLOT DATE = 1/27/2023	CHECKED - TBP	REVISED -
	DATE - MARCH 2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES & BENCHMARKS IL ROUTE 111			
SCALE: 1" = 200'	SHEET 6	OF 17 SHEETS	STA. TO STA.

F.A.P. RTE. 582	SECTION (6-1,6-2)RS-3	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M82	

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NOTES

1. SEE ADA CURB RAMP DETAIL SHEETS FOR ADDITIONAL INFO.
2. SEE EROSION AND SEDIMENT CONTROL SHEETS FOR ADDITIONAL INFO.
3. SEE PAVEMENT MARKING AND SIGNAGE PLAN SHEETS FOR ADDITIONAL INFO.
4. SEE ADA TRAFFIC SIGNAL SHEETS FOR ADDITIONAL INFO.
5. EXISTING SIDEWALK REMOVAL INCLUDES THE REMOVAL OF THE ADJACENT CURB.

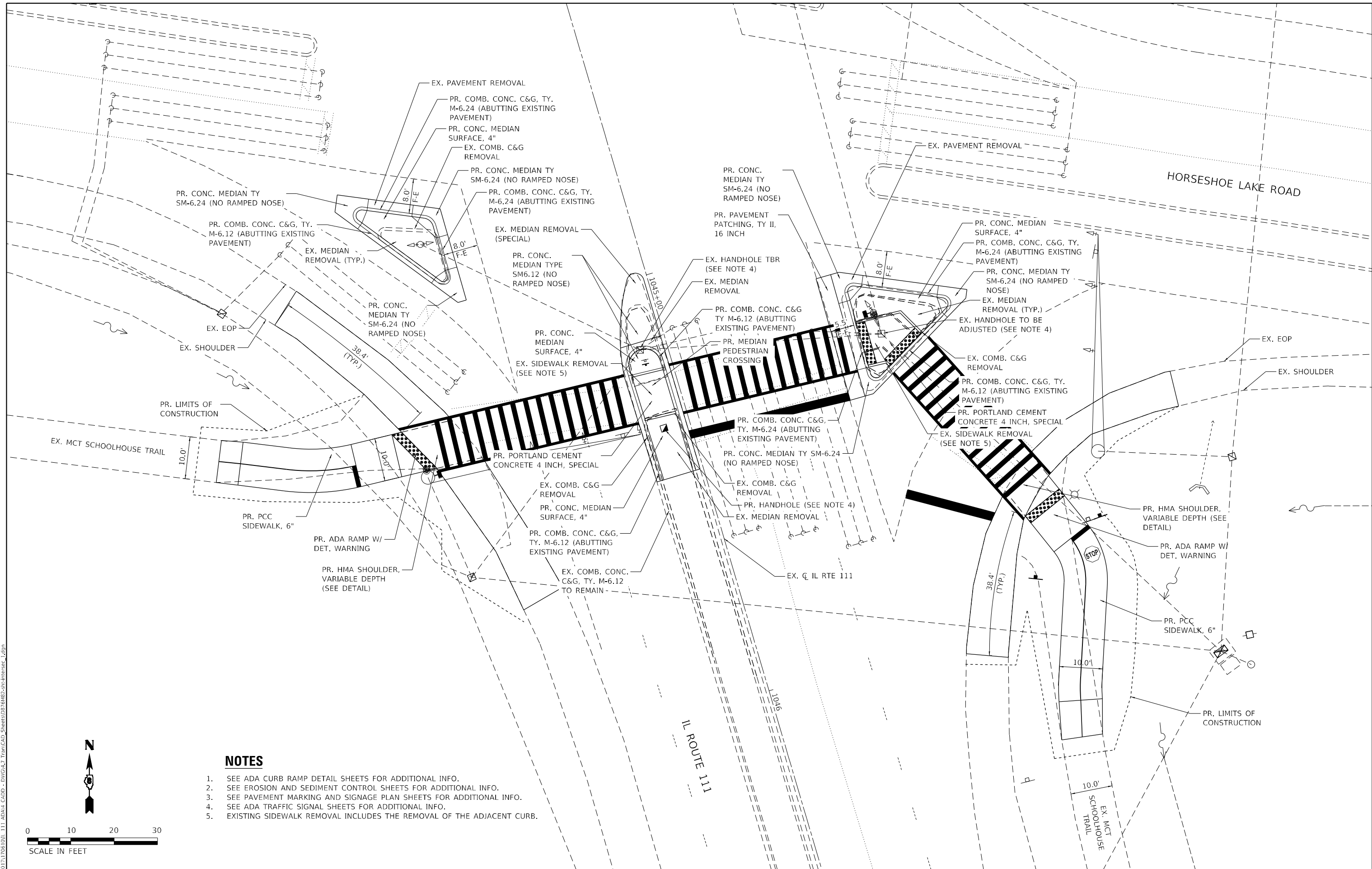


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	DATE - MARCH 2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INTERSECTION PLAN	
IL ROUTE 111 & HORSESHOE LAKE RD	
SCALE: 1" = 10'	SHEET 7 OF 17 SHEETS STA. TO STA.

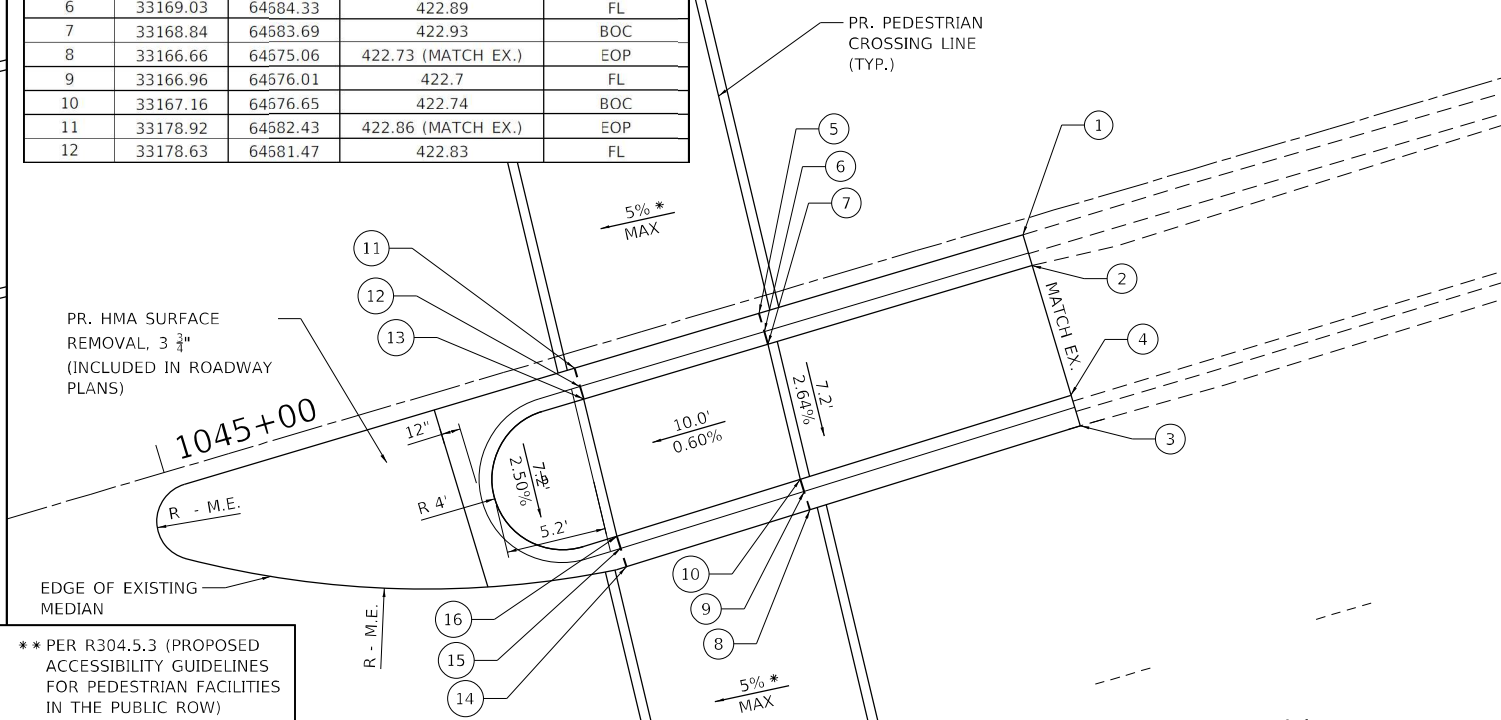
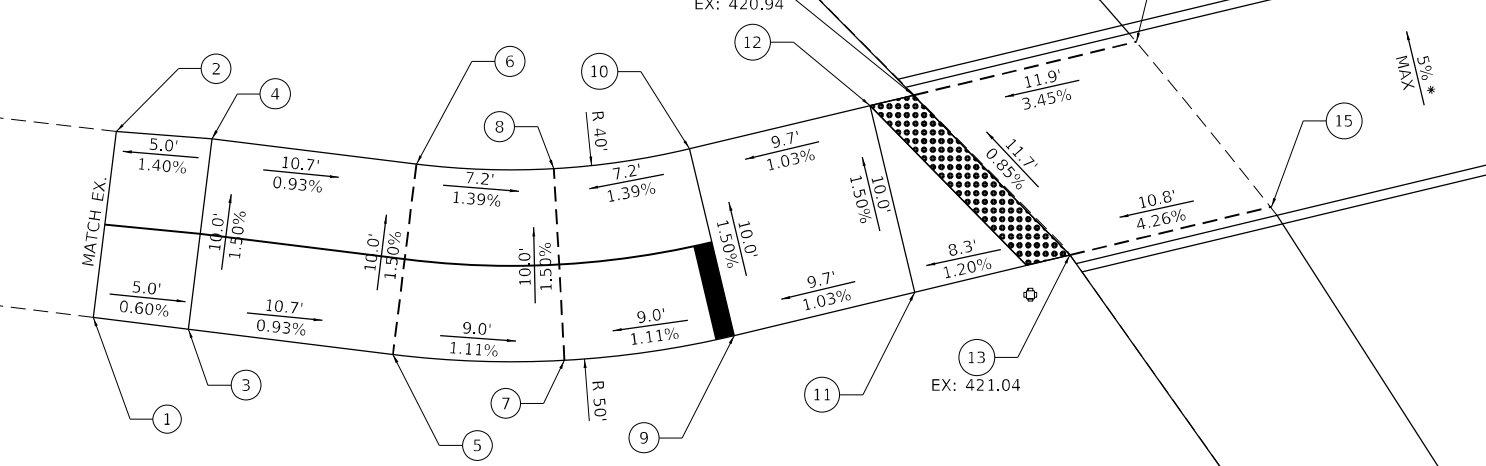
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CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				



POINT	NORTHING	EASTING	ELEV	DESCRIPTION
1	33152.42	64577.81	421.13 (MATCH EX.)	TRAIL
2	33162.11	64579.00	420.88 (MATCH EX.)	TRAIL
3	33151.81	64582.77	421.10	TRAIL
4	33164.48	64611.94	420.95	TRAIL
5	33150.49	64593.42	421.00	TRAIL
6	33160.42	64594.65	420.85	TRAIL
7	33150.19	64602.35	420.90	TRAIL
8	33160.18	64601.79	420.75	TRAIL
9	33151.49	64611.19	421.00	TRAIL
10	33161.21	64608.87	420.85	TRAIL

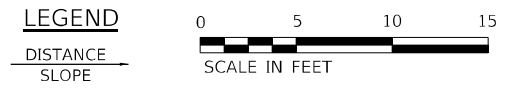
POINT	NORTHING	EASTING	ELEV	DESCRIPTION
1	33155.56	64589.38	423.06 (MATCH EX.)	EOP
2	33155.09	64587.78	423.40 (MATCH EX.)	BOC
3	33152.58	64579.43	422.79 (MATCH EX.)	EOP
4	33153.07	64581.03	423.21 (MATCH EX.)	BOC
5	33169.32	64585.29	422.92 (MATCH EX.)	EOP
6	33169.03	64584.33	422.89	FL
7	33168.84	64583.69	422.93	BOC
8	33166.66	64575.06	422.73 (MATCH EX.)	EOP
9	33166.96	64576.01	422.7	FL
10	33167.16	64576.65	422.74	BOC
11	33178.92	64582.43	422.86 (MATCH EX.)	EOP
12	33178.63	64581.47	422.83	FL

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
13	33178.44	64680.83	422.87	BOC
14	33176.22	64672.09	422.68 (MATCH EX.)	EOP
15	33176.52	64673.04	422.65	FL
16	33176.72	64673.68	422.69	BOC



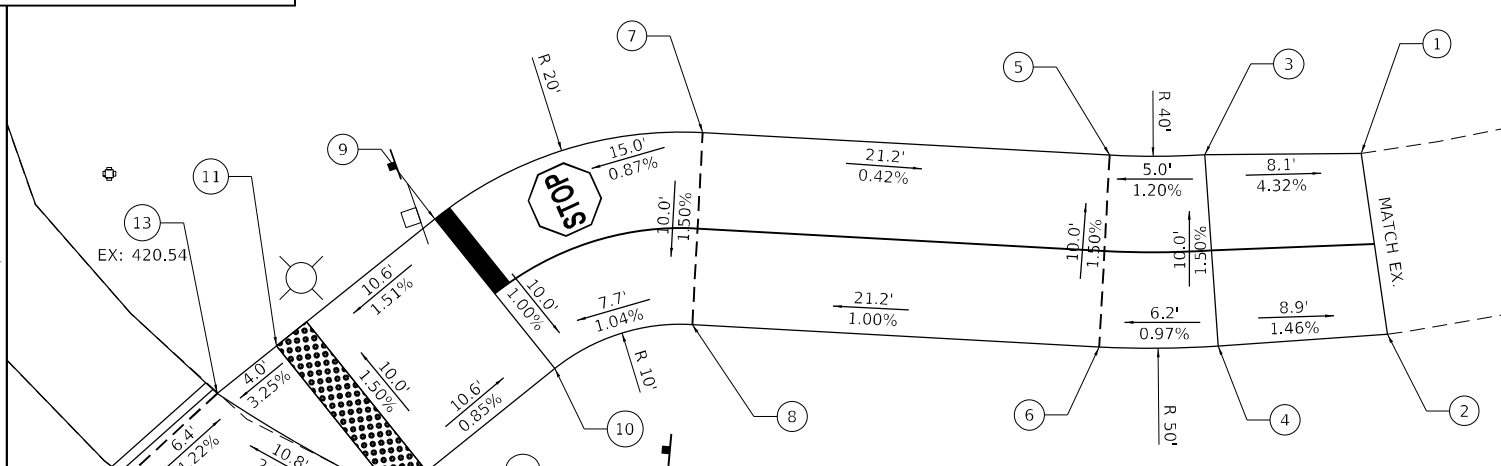
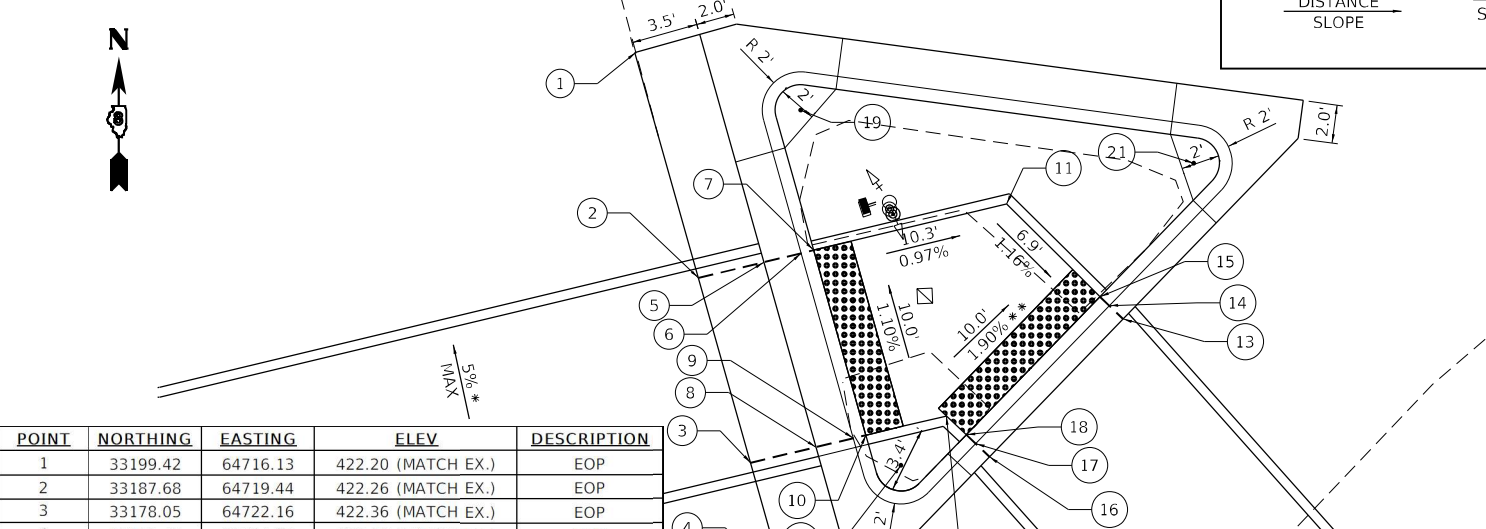
POINT	NORTHING	EASTING	ELEV	DESCRIPTION
11	33153.74	64620.60	421.10	TRAIL
12	33163.47	64618.27	420.95	TRAIL
13	33155.68	64628.69	421.20 (PR. ELEV.)	TRAIL/SHLDR
14	33164.01	64620.54	421.10 (PR. ELEV.)	TRAIL/SHLDR
15	33158.19	64639.19	421.66 (MATCH EX.)	SHLDR/EOP
16	33166.79	64632.15	421.51 (MATCH EX.)	SHLDR/EOP

* PER R302.6.1 (PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC ROW)
 ** PER R304.5.3 (PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC ROW)



SOUTHWEST QUADRANT

SOUTH LEG MEDIAN



POINT	NORTHING	EASTING	ELEV	DESCRIPTION
1	33199.42	64716.13	422.20 (MATCH EX.)	EOP
2	33187.68	64719.44	422.26 (MATCH EX.)	EOP
3	33178.05	64722.16	422.36 (MATCH EX.)	EOP
4	33171.42	64724.03	422.40 (MATCH EX.)	EOP
5	33188.50	64722.84	422.21	EOS
6	33188.97	64724.79	422.25	FL
7	33189.12	64725.44	422.29	BOC
8	33178.87	64725.56	422.32	EOS
9	33179.33	64727.51	422.36	FL
10	33179.49	64728.16	422.40	BOC
11	33191.53	64735.49	422.20	SIDEWALK
12	33180.49	64732.35	422.33	SIDEWALK
13	33185.54	64741.56	422.07 (MATCH EX.)	EOP
14	33186.24	64740.84	422.09	FL
15	33186.70	64740.36	422.12	BOC
16	33178.36	64734.60	422.25 (MATCH EX.)	EOP
17	33179.05	64733.88	422.27	FL
18	33179.51	64733.40	422.31	BOC
19	33196.42	64724.76	NA	RP 2' FOC
20	33177.91	64729.99	NA	RP 2' FOC
21	33193.66	64745.25	NA	RP 2' FOC

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
1	33094.44	64782.24	420.74 (MATCH EX.)	TRAIL
2	33093.07	64772.82	421.11 (MATCH EX.)	TRAIL
3	33102.59	64782.18	421.09	TRAIL
4	33101.90	64772.21	421.24	TRAIL
5	33107.55	64782.15	421.03	TRAIL
6	33108.10	64772.16	421.18	TRAIL
7	33128.75	64783.32	421.12	TRAIL
8	33129.30	64773.33	420.97	TRAIL
9	33142.71	64778.83	420.99	TRAIL
10	33136.45	64771.03	420.89	TRAIL
11	33150.95	64772.21	420.83	TRAIL
12	33144.69	64764.41	420.98 (PR. ELEV.)	TRAIL/SHLDR
13	33154.05	64769.72	420.70 (PR. ELEV.)	TRAIL/SHLDR
14	33158.78	64765.34	420.97 (MATCH EX.)	SHLDR/EOP
15	33150.03	64759.48	421.18 (MATCH EX.)	SHLDR/EOP

SOUTHEAST QUADRANT CORNER ISLAND

SOUTHEAST QUADRANT

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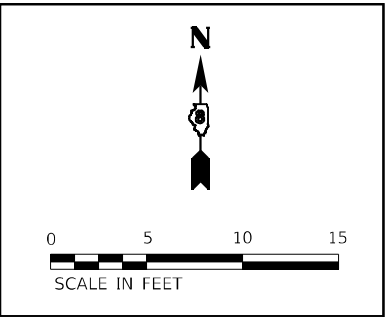
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PLOT DATE = 1/27/2023	DATE - MARCH 2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

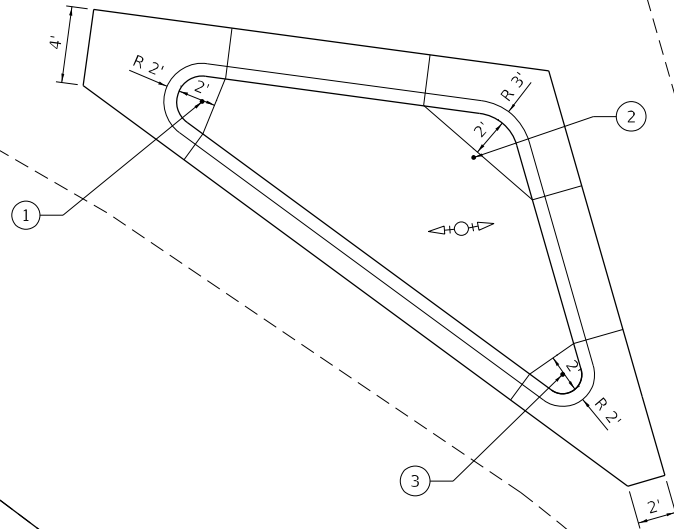
**ADA CURB RAMP DETAILS
IL ROUTE 111 & HORSESHOE LAKE RD**

SCALE: 1"=5' SHEET 9 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 582	SECTION (6-1,6-2)RS-3	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M82	



HORSESHOE LAKE RD.



SEE ADA CURB RAMP DETAILS, SHEET 9 (OVERALL SHEET 27) FOR ADDITIONAL DETAILS

SEE ADA CURB RAMP DETAILS, SHEET 9 (OVERALL SHEET 27) FOR ADDITIONAL DETAILS

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
1	33213.96	64611.37	NA	RP 2' FOC
2	33211.04	64625.51	NA	RP 2' FOC
3	33199.74	64630.14	NA	RP 2' FOC

**SOUTHWEST QUADRANT
CORNER ISLAND**

10415+00

IL ROUTE 111

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ENGINEERING & GEOSPATIAL SERVICES
TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME =	tgigsby
DESIGNED -	MLS
DRAWN -	DCL
CHECKED -	TBP
DATE -	MARCH 2022
PLOT SCALE =	10,0000 * / in.
PLOT DATE =	1/27/2023

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REVISED -	
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REVISED -	

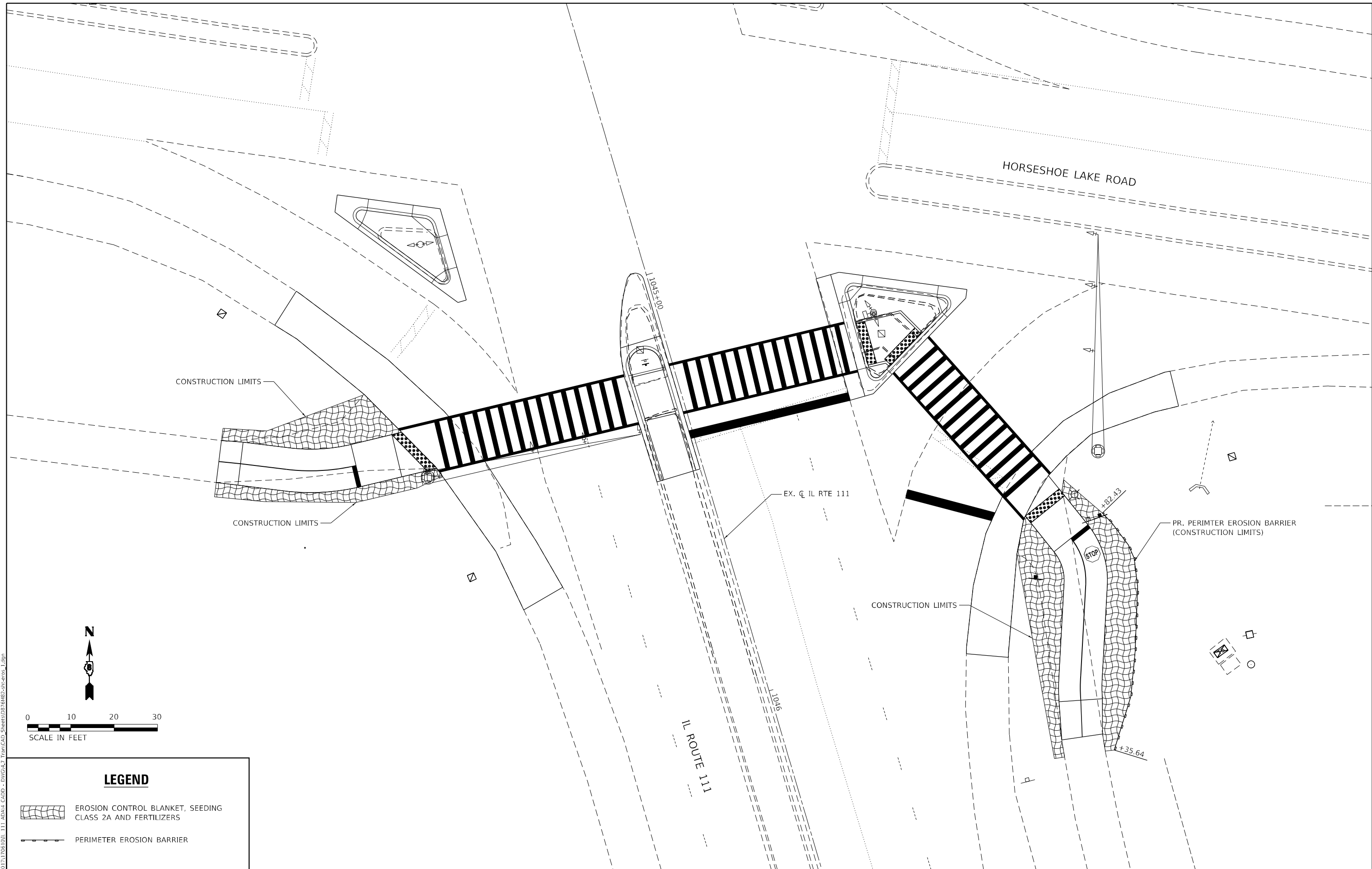
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CORNER ISLAND DETAIL
IL ROUTE 111 & HORSESHOE LAKE RD**

SCALE: 1" = 5'

SHEET 11 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	29
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				



LEGEND

- EROSION CONTROL BLANKET, SEEDING CLASS 2A AND FERTILIZERS
- PERIMETER EROSION BARRIER

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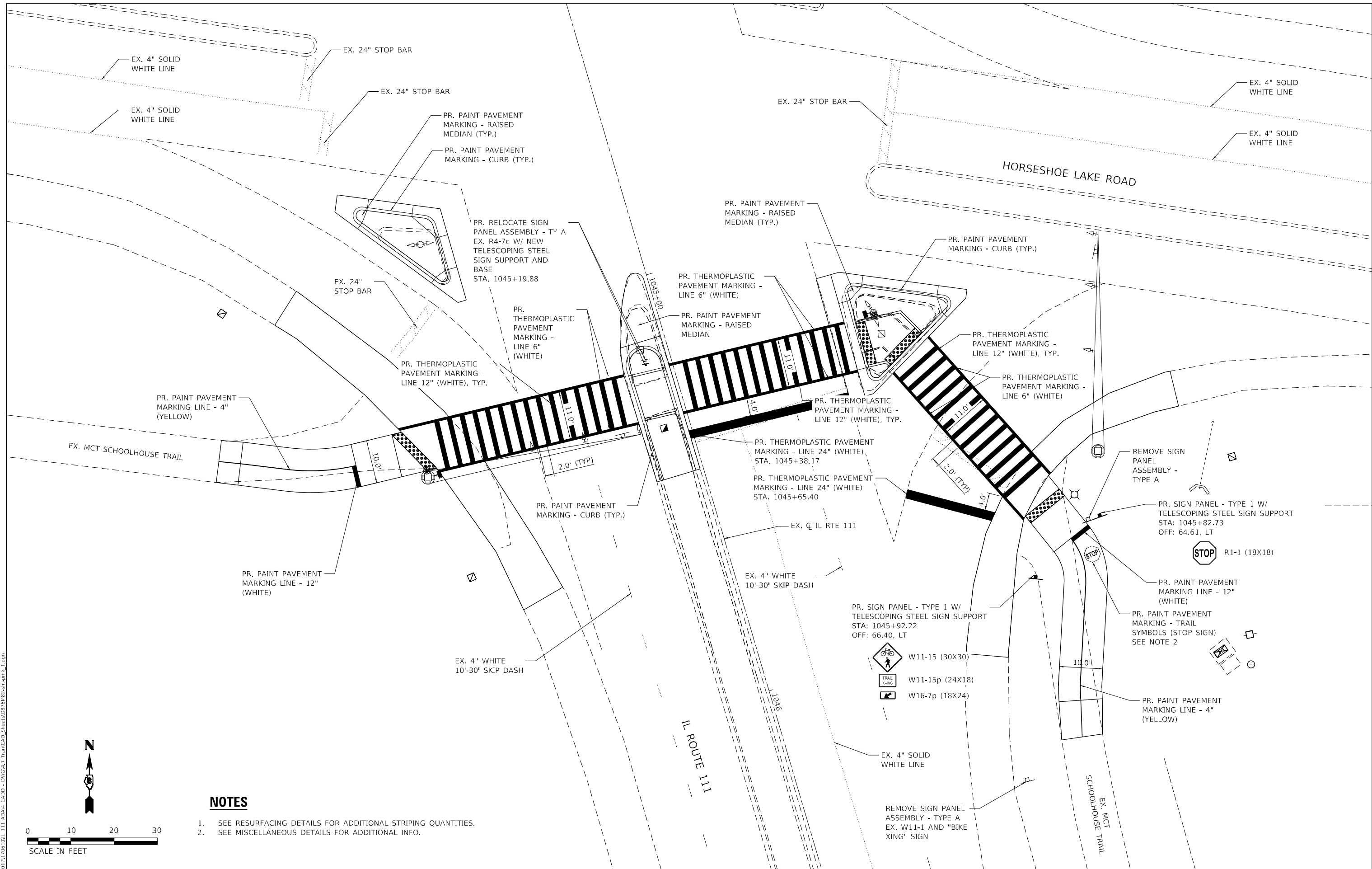
TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES
 WWW.TWM-INC.COM
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = tg1g8by	DESIGNED - MLS	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - DCL	REVISED -
PLOT DATE = 1/27/2023	CHECKED - TBP	REVISED -
	DATE - MARCH 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL SHEET
IL ROUTE 111 & HORSESHOE LAKE RD
 SCALE: 1"=10' SHEET 12 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	30
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	



NOTES

1. SEE RESURFACING DETAILS FOR ADDITIONAL STRIPING QUANTITIES.
2. SEE MISCELLANEOUS DETAILS FOR ADDITIONAL INFO.



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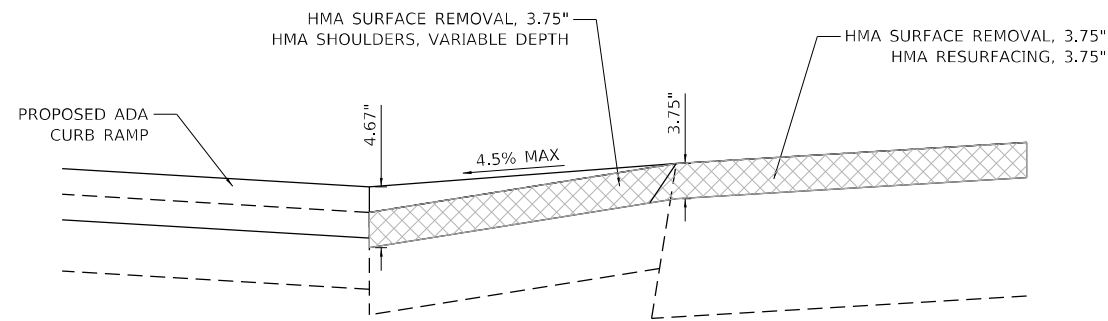
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNAGE PLAN
IL ROUTE 111 & HORSESHOE LAKE RD**

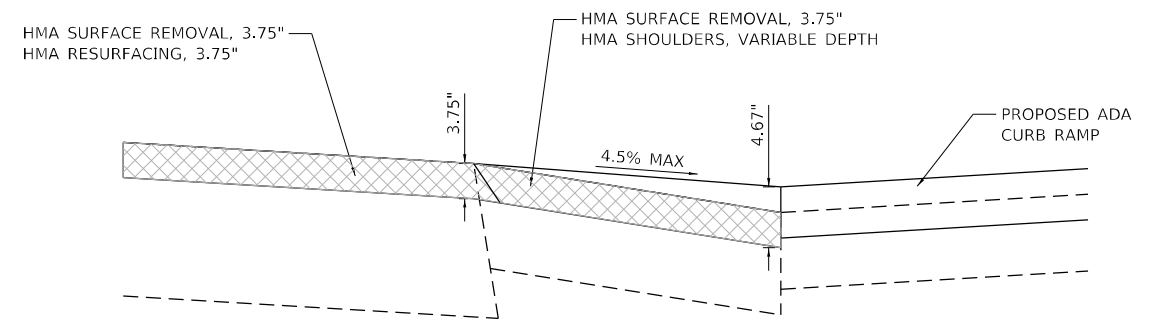
SCALE: 1"=10' SHEET 14 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 582	SECTION (6-1,6-2)RS-3	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 32
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

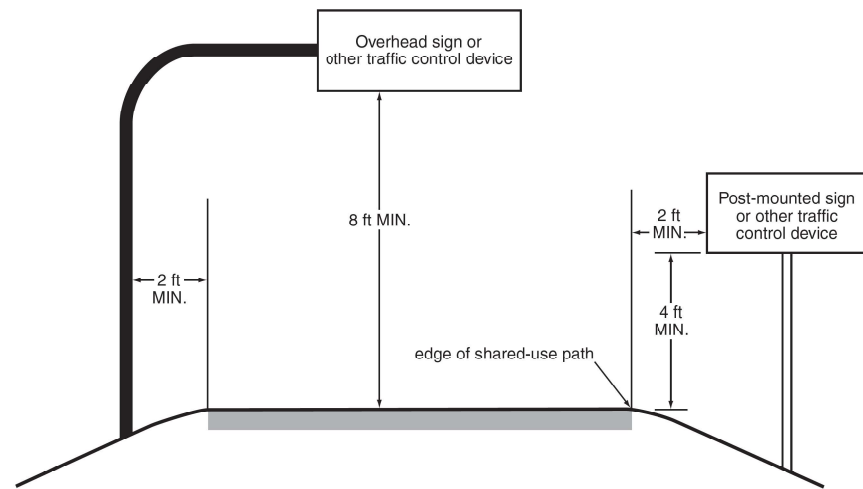
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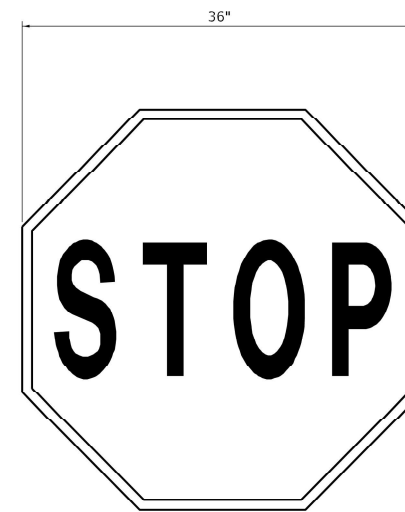
**SOUTHWEST QUADRANT
VARIABLE SHOULDER DEPTH DETAIL
IL 111/HORSESHOE LAKE ROAD INTERSECTION**



**SOUTHEAST QUADRANT
VARIABLE SHOULDER DEPTH DETAIL
IL 111/HORSESHOE LAKE ROAD INTERSECTION**



**STANDARD DETAIL FOR SIGN
PLACEMENTS ON SHARED-USE PATHS**



COLOR AND SHAPE SHALL MATCH SIGN R1-1 IN THE MANUAL ON TRAFFIC CONTROL DEVICES

PAVEMENT MARKING DETAILS

"STOP" SYMBOL - LOCATED 5' IN ADVANCE OF STOP BAR

MODEL Path.dgn
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	DATE - MARCH 2022	REVISED -

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DATE - MARCH 2022	REVISED -

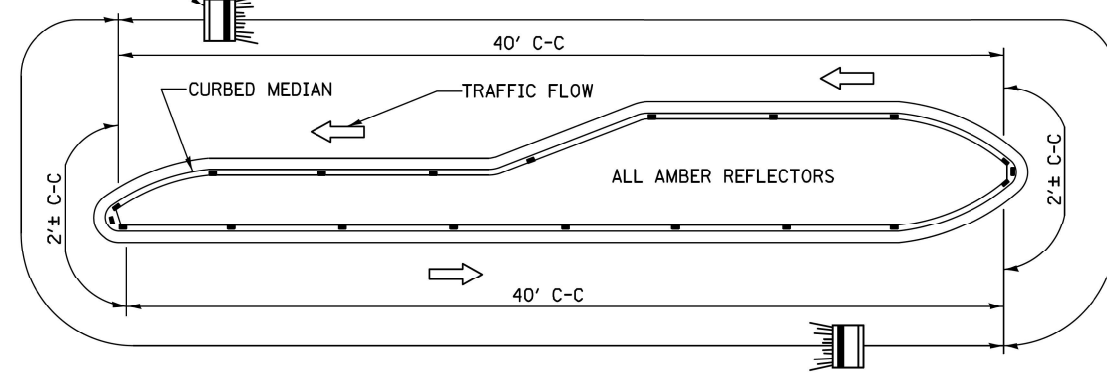
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
IL ROUTE 111 & HORSESHOE LAKE RD**

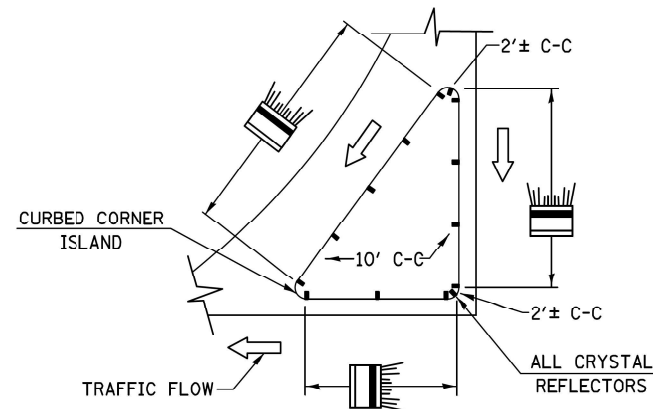
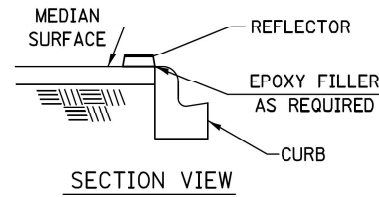
SCALE: NTS SHEET 16 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	34
			CONTRACT NO. 76M82	
			ILLINOIS FED. AID PROJECT	

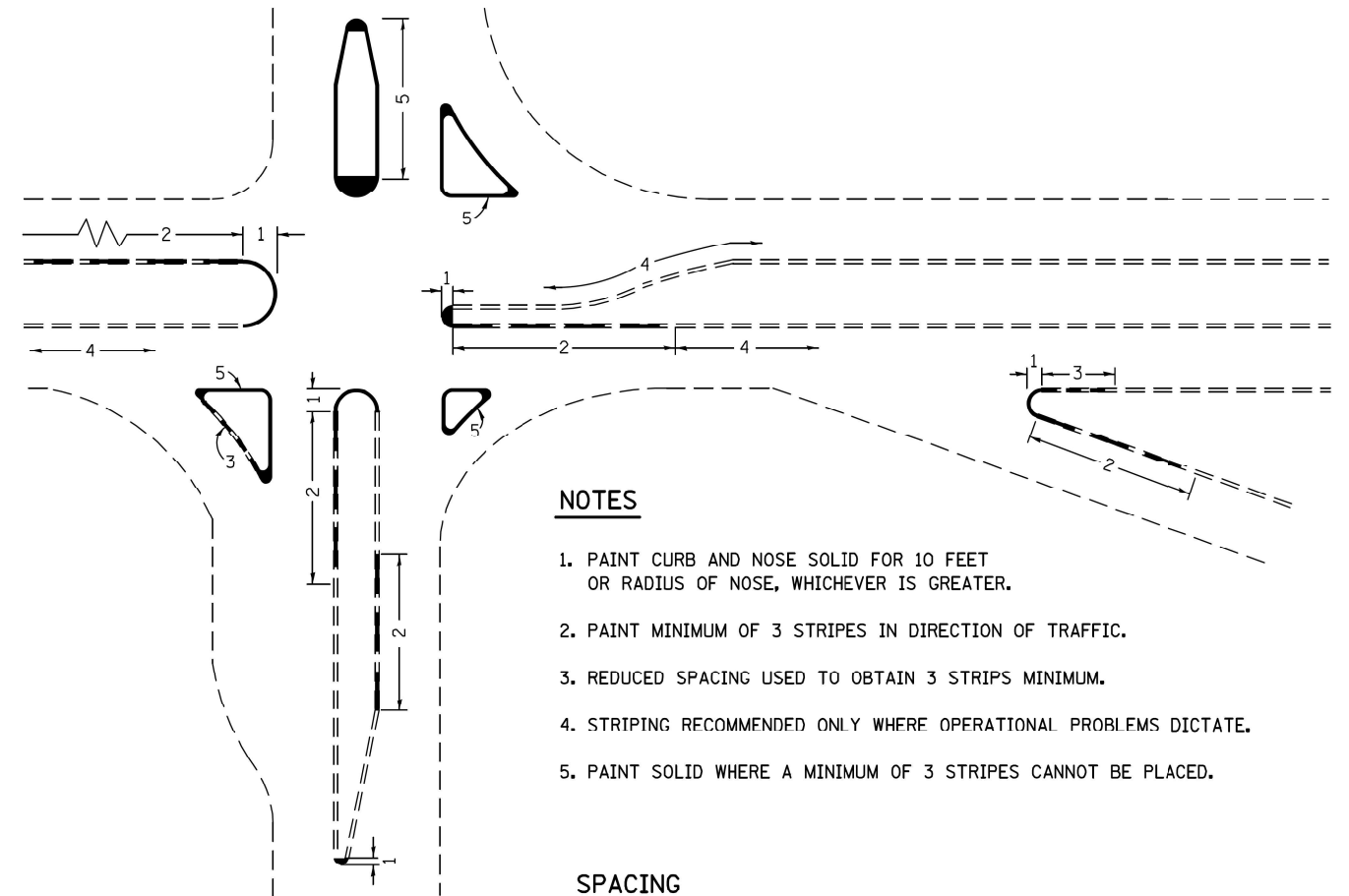
MARKER ORIENTATION
WITHIN LIMITS SHOWN



- NOTES**
1. CURB REFLECTORS SHALL BE MONO-DIRECTIONAL AND POSITIONED SO THAT THE REFLECTIVE FACE IS FACING THE APPROACHING TRAFFIC.
 2. CURB REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
 3. CURB REFLECTORS SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.



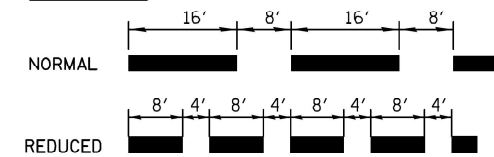
TYPICAL PLACEMENT OF CURB REFLECTORS ON MEDIANS
(NO SCALE)



NOTES

1. PAINT CURB AND NOSE SOLID FOR 10 FEET OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPS MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

SPACING



CURB MARKING

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN PAVEMENT MARKING DETAIL
IL ROUTE 111 & HORSESHOE LAKE RD

SCALE: NTS SHEET 17 OF 17 SHEETS STA. TO STA.

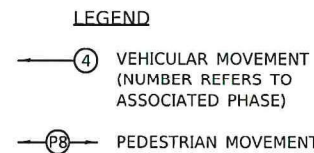
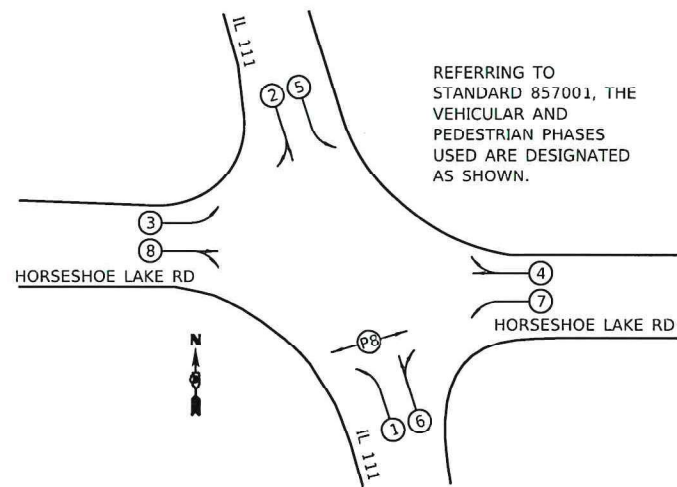
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	35
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

ADA TRAFFIC SIGNALS INDEX OF SHEETS

- 1 TRAFFIC SIGNAL GENERAL NOTES, DETAILS AND BILL OF MATERIAL
- 2 ADA TRAFFIC SIGNAL PLAN - IL RTE 111 & HORSESHOE LAKE RD
- 3 ADA TRAFFIC SIGNAL DIAGRAM - IL RTE 111 & HORSESHOE LAKE RD
- 4-6 OMITTED

ADA TRAFFIC SIGNAL GENERAL NOTES

1. TRAFFIC SIGNALS SHALL BE OPERATIONAL AND ALL TRAFFIC SIGNAL WORK SHALL BE COMPLETED DURING THE IL 111 IMPROVEMENTS.
2. ALL MOUNTING HARDWARE SHALL BE ALUMINUM. ALL BOLTS, SCREWS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
3. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON FORK TONGUE CONNECTORS.
4. ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(A)). THE CAST-IN-PLACE LEGEND ON THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH FINAL GRADE ELEVATIONS.
5. CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "UNDERGROUND CONDUIT" AND INSTALLED PER ARTICLE 810.04 OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
6. A 1/4" DIAMETER CONTINUOUS NYLON PULL ROPE SHALL BE FURNISHED AND INSTALLED IN ALL CONDUITS. THIS WORK SHALL BE INCLUDED WITH THE CONDUIT PAY ITEMS.
7. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY.
8. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
9. DETECTOR LOOP REPLACEMENTS SHALL BE COMPLETED AS PART OF THE RESURFACING PORTION OF THE CONTRACT, UNLESS OTHERWISE NOTED.
10. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE IDOT BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
11. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER ARTICLE 873.03 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
12. QUADRUPLE DETECTOR LOOPS SHALL HAVE THREE (3) TURNS WITH SIX (6) WIRES IN THE CENTER SLOT.
13. ANY EXTENDERS NECESSARY FOR INSTALLATION OF THE PEDESTRIAN PUSH-BUTTONS SHALL BE INCIDENTAL TO THE PRICE FOR ACCESSIBLE PEDESTRIAN SIGNALS.
14. THE FOLLOWING IDOT STANDARDS SHALL APPLY TO CONSTRUCTION OF THE SIGNALS: 000001-08, 814001-03, 857001-01, 873001-02, 880006-01, 886001-01, 886006-01.



EXISTING SEQUENCE OF OPERATION PER CONTRACT NO 1069-001 PLANS TO REMAIN								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT								
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

PEDESTRIAN MOVEMENT BY PUSH-BUTTON ACTUATION ONLY

IL ROUTE 111 & HORSESHOE LAKE ROAD

ADA TRAFFIC SIGNAL BILL OF MATERIAL

CODE NUMBER	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	1.88
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	1.50
80300100	LOCATING UNDERGROUND CABLE	FOOT	490
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	69
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	54
81028230	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	53
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	40
81400200	HEAVY-DUTY HANDHOLE	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	429
87301275	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	447
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5132
87307305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	3151
87307900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	687
87900200	DRILL EXISTING HANDHOLE	EACH	3
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
88600100	DETECTOR LOOP, TYPE 1	FOOT	721
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8680
89502380	REMOVE EXISTING HANDHOLE	EACH	2
X1400423	REMOVE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
X8140115	HANDHOLE TO BE ADJUSTED	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
X8950307	REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2



Michelle L. Schwierjohn
MICHELLE L. SCHWIERJOHN, PE, PTOE EXPIRATION DATE 11-30-2023
LICENSE NO. 062-062675

TRAFFIC SIGNAL LEGEND

- EXISTING SIGNAL HEAD W/ BACKPLATE
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING CONTROLLER
- EXISTING DETECTOR LOOP
- EXISTING SERVICE INSTALLATION
- EXISTING CONDUIT
- EXISTING ILLUMINATED SIGN
- EXISTING PEDESTRIAN PUSH-BUTTON
- EXISTING PEDESTRIAN SIGNAL HEAD
- PROPOSED DETECTOR LOOP
- PROPOSED HANDHOLE
- PROPOSED CONDUIT, SIZE SPECIFIED
- PROPOSED PEDESTRIAN PUSH-BUTTON
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PVCC POLYVINYL CHLORIDE CONDUIT
- GSC GALVANIZED STEEL CONDUIT

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	DATE - MARCH 2022	REVISED -

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DEPARTMENT OF TRANSPORTATION**

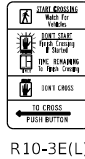
TRAFFIC SIGNAL GENERAL NOTES, DETAILS AND BILL OF MATERIAL			
IL ROUTE 111 & HORSESHOE LAKE RD			
SCALE: NTS	SHEET 1	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	36
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				

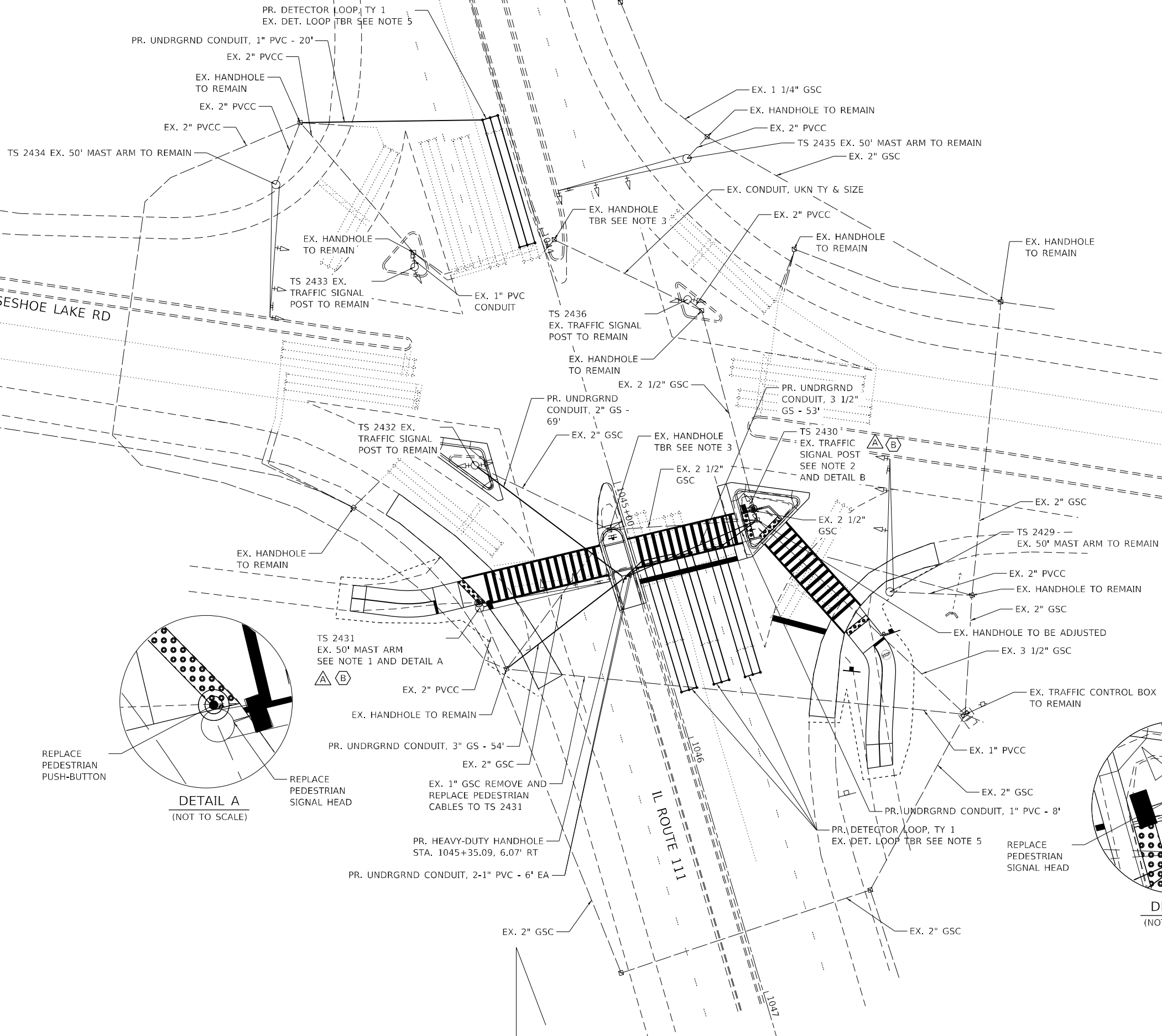
12" X 16" LED



PEDESTRIAN SIGNAL HEADS WITH COUNTDOWN

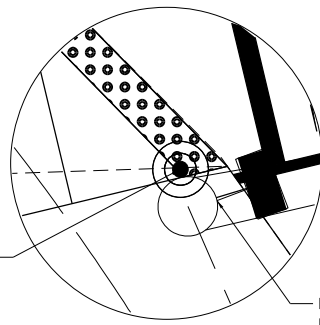


R10-3E(L)



NOTE

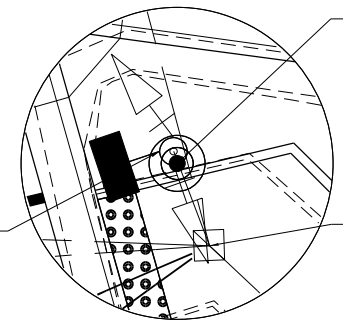
1. REMOVE ELECTRIC CABLE FROM CONDUIT FOR PED ITEMS
REMOVE EX. PEDESTRIAN PUSH-BUTTON.
REMOVE EX. PEDESTRIAN SIGNAL HEAD
REMOVE EX. SIGN PANEL (PEDESTRIAN PUSH-BUTTON).
PR. ACCESSIBLE PEDESTRIAN SIGNALS - 1 EA.
PR. PEDESTRIAN SIGNAL HEAD - 1 EA.
PR. R10-3E(L) (9"X15") SIGN ABOVE EACH PUSH-BUTTON. SEE DETAIL A.
2. REMOVE ELECTRIC CABLE FROM CONDUIT FOR PED ITEMS
REMOVE EX. PEDESTRIAN PUSH-BUTTON.
REMOVE EX. PEDESTRIAN SIGNAL HEAD
REMOVE EX. SIGN PANEL (PEDESTRIAN PUSH-BUTTON).
PR. ACCESSIBLE PEDESTRIAN SIGNALS - 1 EA.
PR. PEDESTRIAN SIGNAL HEAD - 1 EA.
PR. R10-3E(L) (9"X15") SIGN ABOVE EACH PUSH-BUTTON.
LOCATION OF "BIKE USE PED SIGNAL" MAY NEED TO BE ADJUSTED. INCLUDED IN COST OF PR. ACCESSIBLE PED. SIGNALS. SEE DETAIL B.
3. EXISTING HANDHOLE TO BE REMOVED. EXISTING CONDUIT CONNECTED WILL NEED TO BE REMOVED AS NECESSARY FOR IMPROVEMENTS. COST INCLUDED IN THE COST OF EX. HANDHOLE TO BE REMOVED. EX. CABLE FOR THE BS LT-TURN DET. LOOP SHALL BE REMOVED TO THE CONTROLLER.
4. THE EXISTING HANDHOLES AND CONDUITS TO REMAIN ARE TO BE REUSED AS NOTED. IF THEY ARE DAMAGED BY THE CONTRACTOR, THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE COST OF THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION.
5. THE EXISTING DETECTOR LOOP WILL BE REMOVED AS NECESSARY TO NOT INTERFERE WITH THE DETECTOR LOOP, TY 1. THIS WILL INCLUDE REMOVING THE ELECTRICAL CABLE TO THE EX. HANDHOLE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
6. EXISTING HANDHOLE TO BE REMOVED. EXISTING CONDUIT CONNECTED WILL NEED TO BE REMOVED AS NECESSARY FOR IMPROVEMENTS. COST INCLUDED IN THE COST OF EX. HANDHOLE TO BE REMOVED. EX. CABLE FROM THE TRAFFIC SIGNAL ITEMS IN THE NW AND SW QUADRANTS TO THE CONTROLLER THAT PASS THROUGH THE HANDHOLE TO BE REMOVED. REPLACE THE ELECTRICAL CABLE UTILIZING THE EX. CONDUIT TO REMAIN AND THE PR. CONDUIT.



DETAIL A (NOT TO SCALE)

REPLACE PEDESTRIAN PUSH-BUTTON

REPLACE PEDESTRIAN SIGNAL HEAD



DETAIL B (NOT TO SCALE)

REPLACE PEDESTRIAN PUSH-BUTTON

EX. HANDHOLE TO BE ADJUSTED



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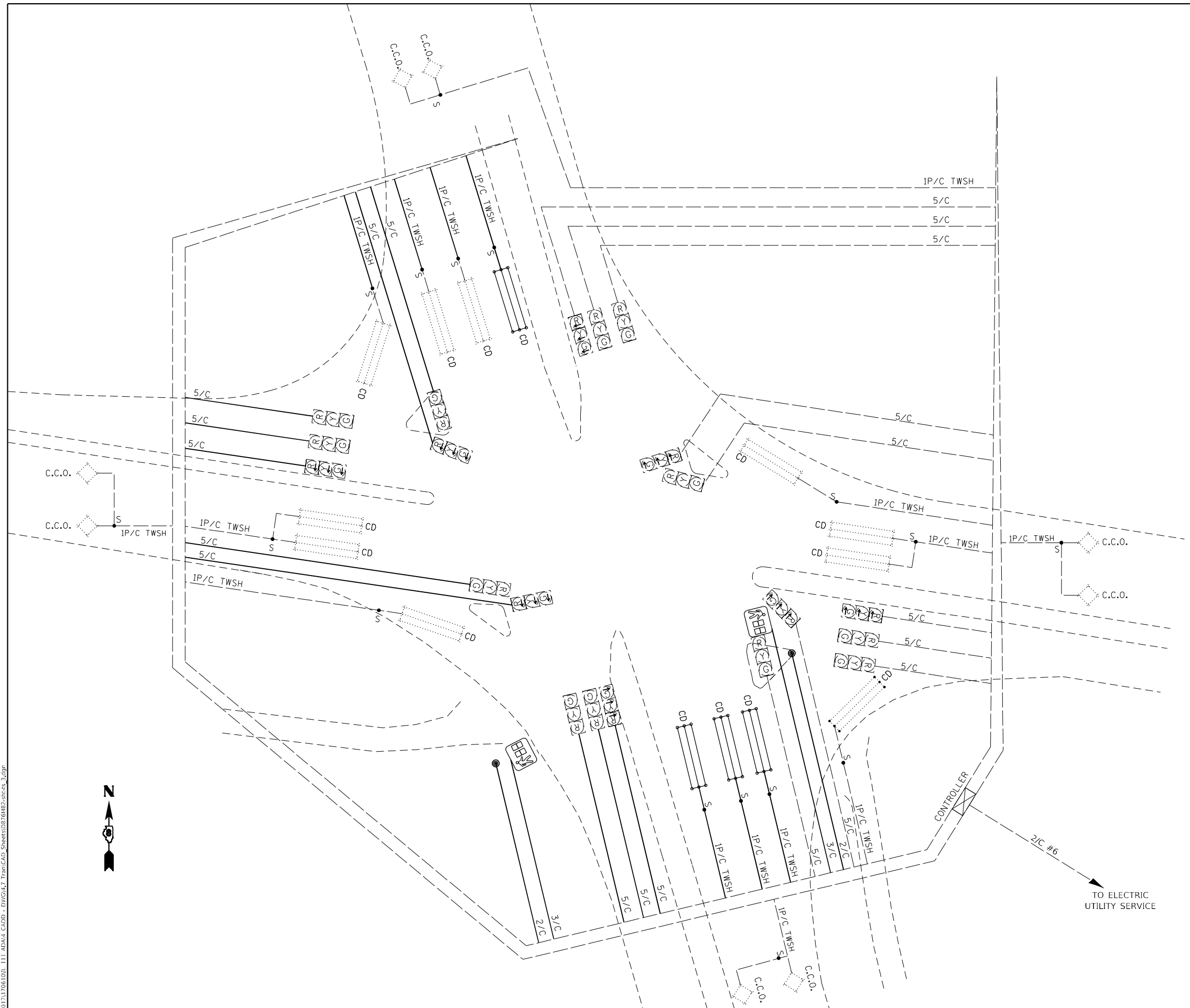
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ADA TRAFFIC SIGNAL PLAN
IL ROUTE 111 & HORSESHOE LAKE RD

SCALE: 1" = 20' SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	37
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	

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LEGEND

- EXISTING CABLE
- PROPOSED CABLE
- INDICATES CABLE SPLICE
- INDICATES NUMBER OF CONDUCTORS IN CABLE
- EXISTING CONTROLLER
- EXISTING 12" TRAFFIC SIGNAL SECTION. LETTER INDICATES COLOR.
- EXISTING DETECTOR LOOP
- PROPOSED DETECTOR LOOP
- EXISTING PEDESTRIAN PUSH-BUTTON
- PROPOSED PEDESTRIAN PUSH-BUTTON
- PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1 FACE, BRACKET MOUNTED, COUNTDOWN
- C.C.O. CALL CARRY OVER
- CALL DELAY
- TWISTED AND SHIELDED CABLE
- #6 symbol"/> INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

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PLOT DATE = 1/27/2023	CHECKED - TBP	REVISED -
	DATE - MARCH 2022	REVISED -

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**ADA TRAFFIC SIGNAL CABLE DIAGRAM
 IL ROUTE 111 & HORSESHOE LAKE RD**

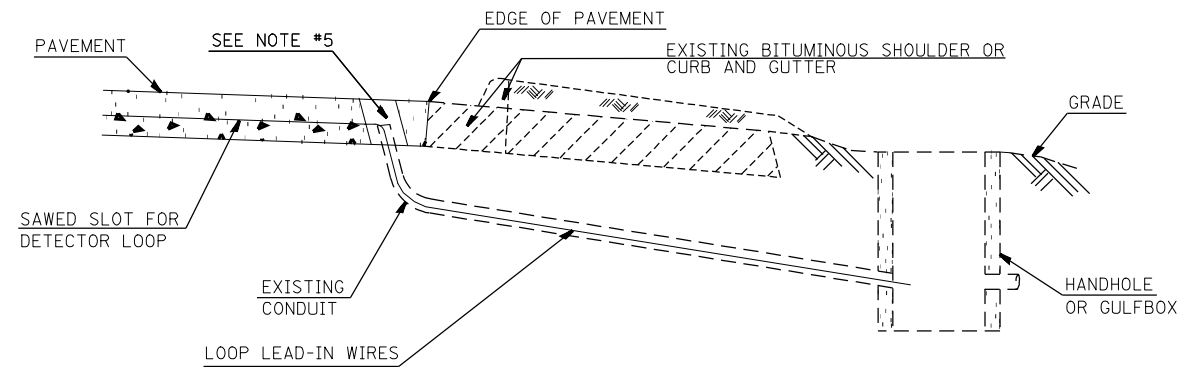
SCALE: NTS SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	38
			CONTRACT NO. 76M82	
ILLINOIS FED. AID PROJECT				

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS"
FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.
SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES
IN EXISTING CONDUITS.

SCHEDULE OF QUANTITIES			TOTAL	IL 111 AND	IL 111 AND IL 162
CODE NO.	ITEM	UNIT	QUANTITIES	HORSESHOE LAKE RD.	
88600500	DETECTOR LOOP REPLACEMENT	FOOT	3807	2079	1728



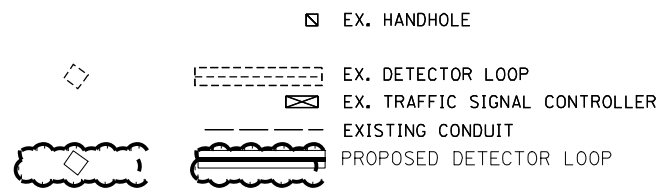
DETAIL A
(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REPLACEMENT LEGEND



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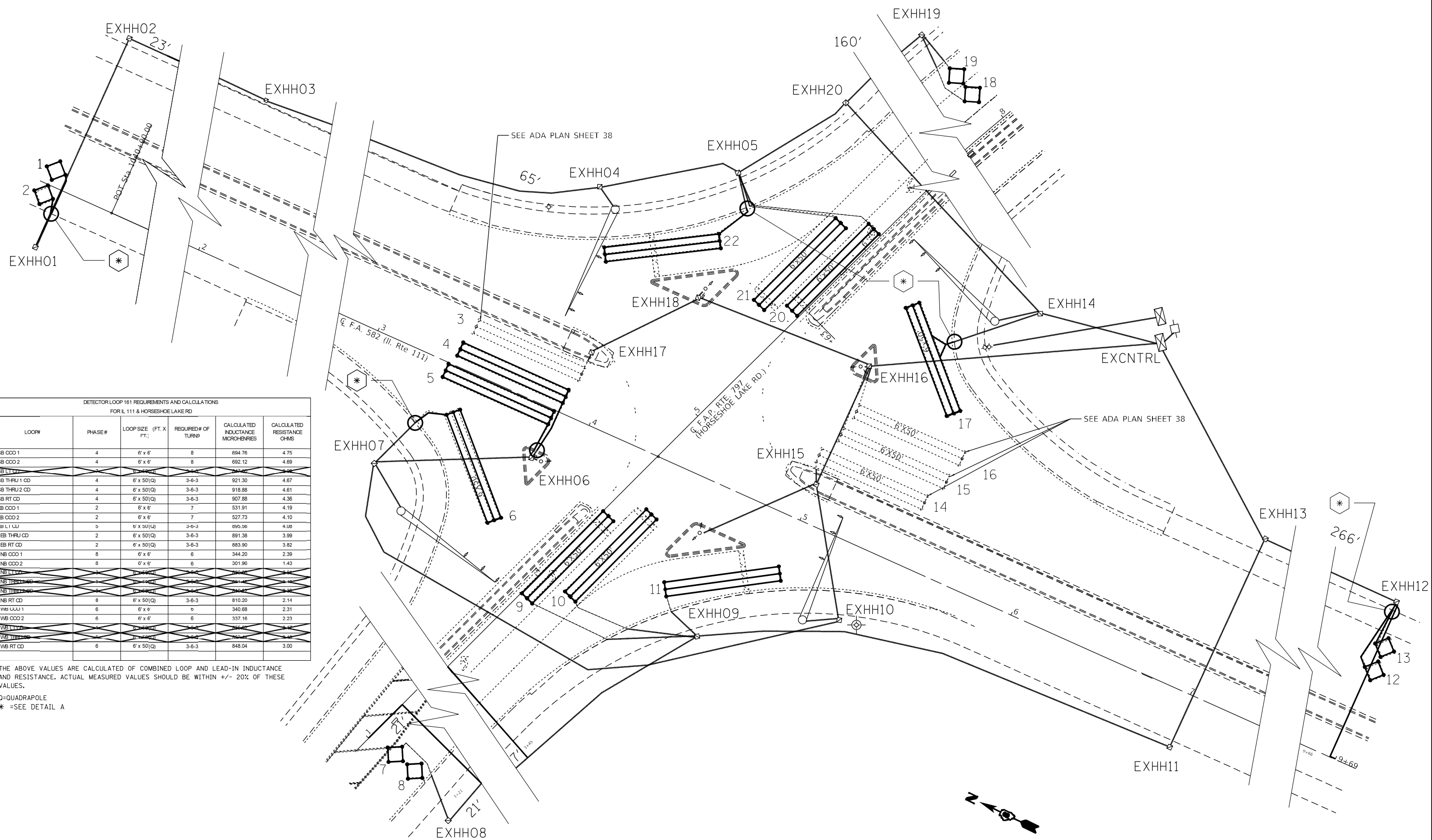
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PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 2/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
GENERAL NOTES, SCHEDULE OF QUANTITIES,
DETAIL AND LEGEND**

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	42
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	



DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 111 & HORSESHOE LAKE RD

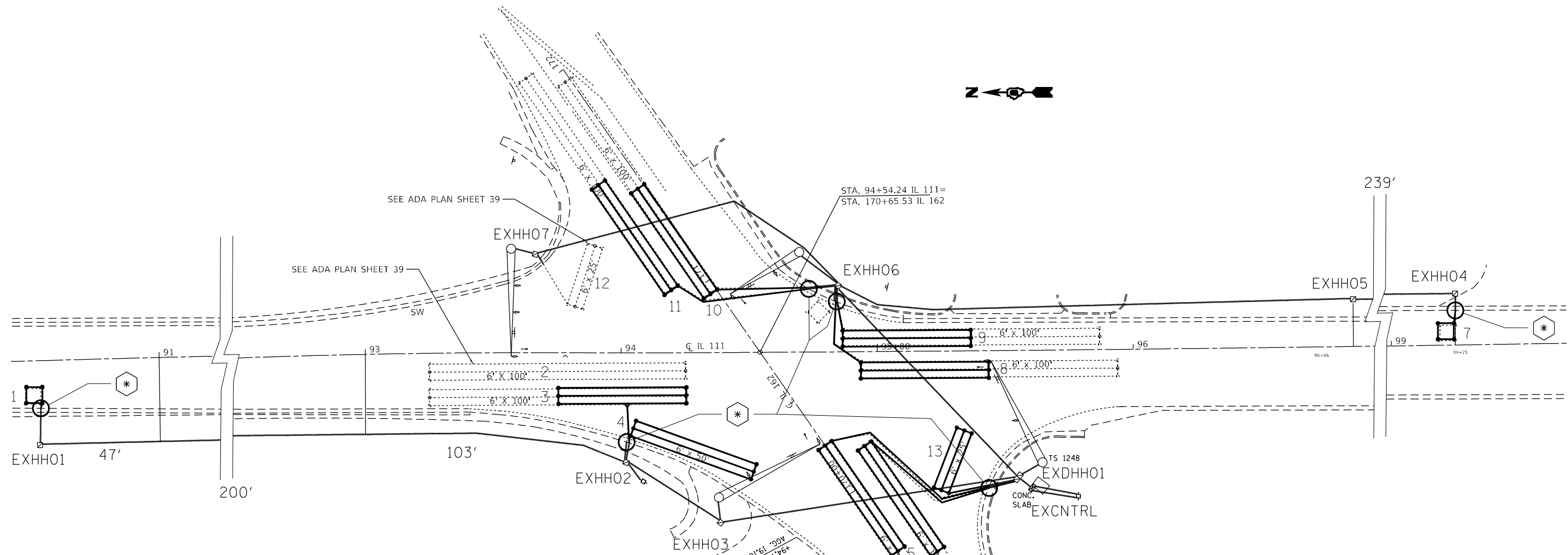
LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED# OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. SB CCO 1	4	6' x 6'	8	694.76	4.75
2. SB CCO 2	4	6' x 6'	8	692.12	4.69
3. SB L L	4	6' x 50'(Q)	3-6-3	921.30	4.67
4. SB THRU 1 CD	4	6' x 50'(Q)	3-6-3	918.88	4.61
5. SB THRU 2 CD	4	6' x 50'(Q)	3-6-3	907.88	4.36
6. SB RT CD	4	6' x 50'(Q)	3-6-3	531.91	4.19
7. EB CCO 1	2	6' x 6'	7	527.73	4.10
8. EB CCO 2	2	6' x 6'	7	895.36	4.08
9. EB L L	2	6' x 50'(Q)	3-6-3	891.38	3.99
10. EB THRU CD	2	6' x 50'(Q)	3-6-3	883.90	3.82
11. EB RT CD	2	6' x 50'(Q)	3-6-3	344.20	2.39
12. NB CCO 1	8	6' x 6'	6	301.96	1.43
13. NB CCO 2	8	6' x 6'	6	266.27	1.24
14. NB L L	8	6' x 50'(Q)	3-6-3	911.72	4.57
15. NB THRU CD	8	6' x 50'(Q)	3-6-3	910.22	4.52
16. NB RT CD	8	6' x 50'(Q)	3-6-3	810.20	2.14
17. NB RT CD	8	6' x 50'(Q)	3-6-3	340.68	2.31
18. WB CCO 1	6	6' x 6'	6	337.16	2.23
19. WB CCO 2	6	6' x 6'	6	266.27	1.24
20. WB L L	6	6' x 50'(Q)	3-6-3	921.30	4.67
21. WB THRU CD	6	6' x 50'(Q)	3-6-3	918.88	4.61
22. WB RT CD	6	6' x 50'(Q)	3-6-3	848.04	3.00

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.
 Q=QUADRAPOLE
 * =SEE DETAIL A

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 PLOT DATE: 2/1/2023

USER NAME = Nathan Cox	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 111 AND HORSESHOE LAKE RD. DETECTOR LOOP REPLACEMENT PLAN	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -			582	(6-1,6-2)RS-3	MADISON	45	43
PLOT DATE = 2/1/2023	DATE -	REVISED -			CONTRACT NO. 76M82		ILLINOIS FED. AID PROJECT		

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.



DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS
FOR IL 111 & IL 162

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. SR COO	2	6' x 6'	6	498.03	3.42
2. SB LT CD	2	6' x 50'(Q)	3-6-3	841.00	2.84
3. SB THRU CD	2	6' x 50'(Q)	3-6-3	841.00	2.84
4. SBRT CD	2	6' x 50'(Q)	3-6-3	841.00	2.84
5. EB LT CD	7	6' x 50'(Q)	3-6-3	816.80	2.29
6. EB THRU CD	4	6' x 50'(Q)	3-6-3	813.28	2.41
7. NB COO	6	6' x 6'	7	502.87	3.53
8. NB LT CD	1	6' x 50'(Q)	3-6-3	82.78	2.99
9. NB THRU CD	6	6' x 50'(Q)	3-6-3	825.82	2.50
10. VB LT CD	3	6' x 50'(Q)	3-6-3	832.42	2.65
11. VB THRU CD	8	6' x 50'(Q)	3-6-3	836.38	2.74
12. EBRTCD					
13. WBRTCD					

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.
 Q=QUADRAPOLE
 * =SEE DETAIL A

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USER NAME = Nathan Cox	DESIGNED -	REVISED -
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PLOT DATE = 2/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 111 AND IL 162
DETECTOR LOOP REPLACEMENT PLAN**

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-1,6-2)RS-3	MADISON	45	44
CONTRACT NO. 76M82				
ILLINOIS FED. AID PROJECT				



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USER NAME = Joseph.Arteen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 1/26/2023	DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE. 582	SECTION (6-1,6-2)RS-3	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 45
CONTRACT NO. 76M82			ILLINOIS FED. AID PROJECT	