

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	1

04-27-2018 LETTING ITEM 133

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 291 (W. 167TH STREET/DIVISION STREET) AND FAU 367 (S. GOUGAR ROAD)
INTERSECTION IMPROVEMENTS
SECTION 14-00081-00-CH
PROJECT GTJB(857)
CITY OF LOCKPORT
WILL COUNTY
JOB NO. C-91-061-17

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

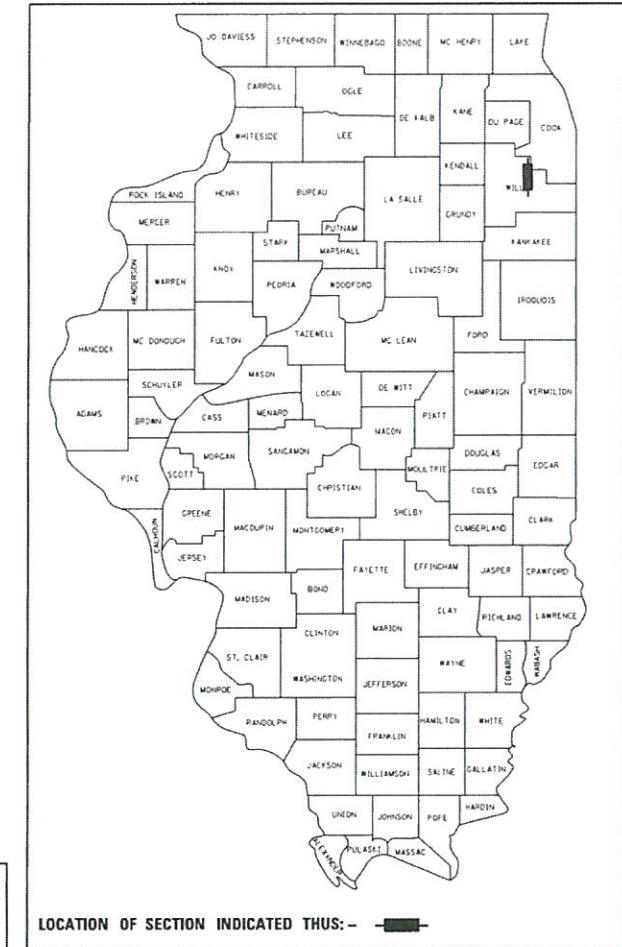
DESIGN DESIGNATION

W. 167TH STREET/DIVISION STREET AND S. GOUGAR ROAD
8,700 (18) MINOR ARTERIAL 1.08 (FD-20)

TRAFFIC DATA

MAJOR COLLECTOR
W. 167TH STREET/DIVISION STREET
DESIGN SPEED: 50 MPH (WEST LEG), 45 MPH (EAST LEG)
POSTED SPEED: 45 MPH
7,100 (WEST LEG), 6,700 (EAST LEG) (2014)
12,000 (WEST LEG), 11,000 (EAST LEG) (2040)

MINOR ARTERIAL
S. GOUGAR ROAD
DESIGN SPEED: 40 MPH
POSTED SPEED: 35 MPH
7,600 (NORTH LEG), 7,900 (SOUTH LEG) (2014)
13,000 (NORTH LEG), 13,000 (SOUTH LEG) (2040)

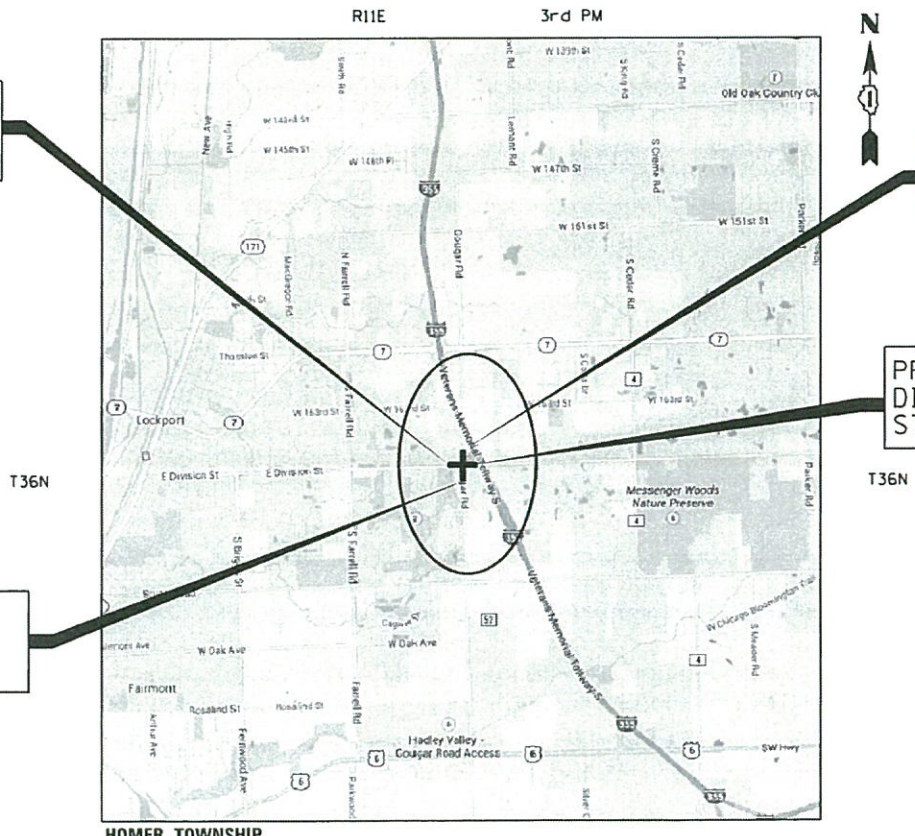


PROJECT BEGINS
DIVISION STREET
STATION 51+19.02

PROJECT ENDS
GOUGAR ROAD
STATION 24+27.86

PROJECT ENDS
DIVISION STREET
STATION 67+18.18

PROJECT BEGINS
GOUGAR ROAD
STATION 11+38.42



LOCATION MAP

NOT TO SCALE
PROJECT LENGTH (GROSS / NET)
W. 167TH STREET/DIVISION STREET 1,599.16 FT (0.30 MILES)
GOUGAR ROAD 1,289.44 FT (0.24 MILES)
TOTAL LENGTH 2,888.60 (0.55 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

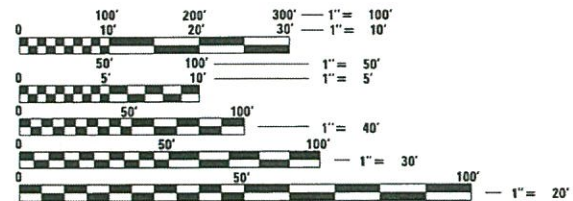
APPROVED ON: January 16, 2018
[Signature]
CITY OF LOCKPORT, DIRECTOR OF PUBLIC WORKS & ENGINEERING

PASSED FEBRUARY 1, 2018
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW FEBRUARY 2, 2018
[Signature]
REGIONAL ENGINEER

DAVID W. BLOCK, P.E.
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
1-16-2018
[Signature]
DAVID W. BLOCK, P.E.
NO. 062-050966
EXP. DATE 11/30/19

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



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

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

CONTRACT NO. 61E47

Tran Systems
1475 WOODFIELD ROAD #600
SCHAUMBURG, IL 60173
(847) 605-9600

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDGLE, P.E., (847) 705-4406, SCHAUMBURG, IL

SHEET NO. INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-04	INLET - TYPE A
602401-04	MANHOLE TYPE A
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604091-03	FRAME AND GRATE TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-04	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24 (B-15.60)
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-04	LANE CLOSE, 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
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-08	URBAN LANE CLOSURE, 2L, 2W WITH BI DIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-07	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877011-09	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

FILE NAME =	USER NAME = Mibeening	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS INDEX OF SHEETS AND HIGHWAY STANDARDS	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	2	
	PLOT SCALE = 20.0000' / in.	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			SCALE: NTS	SHEET NO. 2 OF 103 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2018, THE DETAILS IN THESE PLANS, THE REFERENCED STANDARDS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
2. ALL ELEVATIONS SHOWN ON THE PLANS REFER TO NAVD88 UNLESS NOTED OTHERWISE.
3. PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES UNLESS NOTED OTHERWISE ON THE PLANS.
4. UTILITIES
 - a) BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. THE CONTRACTOR SHALL CONTACT "J.U.L.I.E." AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
 - b) THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.
 - c) THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES ALONG WITH THE CITY OF LOCKPORT AND WILL COUNTY.
 - d) THE CONTRACTOR SHALL NOTIFY THE CITY OF LOCKPORT TO COORDINATE THE RELOCATION OF CITY-OWNED UTILITIES.
 - e) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
 - f) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OR DESTRUCTION TO PUBLIC OR PRIVATE PROPERTY DUE TO THEIR NEGLIGENCE, AND SHALL RESTORE PROPERTY.
5. TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN.
6. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON COUNTY OR CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE COUNTY AND THE CITY OF LOCKPORT.
7. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR EXISTING ITEMS THAT WILL NOT BE REMOVED. DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
8. WHERE UNANTICIPATED SECTION, SUBSECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER, COUNTY, AND THE CITY SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THE MONUMENT'S LOCATIONS.
9. ALL MAILBOXES SHALL BE HANDLED AS STATED IN ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE TEMPORARY AND PERMANENT LOCATIONS FOR THE RELOCATED MAILBOXES SHALL BE COORDINATED WITH THE PROPERTY OWNER AND THE CITY OF LOCKPORT POST OFFICES.
10. LPC-663, THE IEPA FORM FOR UNCONTAMINATED SOIL CERTIFICATION, HAS BEEN SIGNED AND INCLUDED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL SUBMIT THIS FORM TO PROSPECTIVE CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS. NO EVIDENCE OF CONTAMINATED SOILS WAS DISCOVERED THROUGH A RECORDS RESEARCH DURING DESIGN, AND NO SOIL TESTING HAS BEEN PERFORMED. THE CONTRACTOR SHALL BE REQUIRED TO TEST AND PROVIDE THE pH LEVEL WITH THIS CERTIFICATION TO INSURE IT FALLS WITHIN A RANGE OF 6.26 AND 9.0. THIS TESTING SHALL BE CONSIDERED PART OF EARTH EXCAVATION AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS.

WCDOT NOTES

11. ALL COUNTY ROW MONUMENTATION (BOUNDARY CORNERS) SHALL BE ACCORDING TO ARTICLE 1.7.13 OF THE PERMIT REGULATIONS UTILIZING THE "WCDOT MONUMENTATION STANDARD".
12. EXCAVATION AND PAVEMENT WIDENING ON BOTH SIDES OF THE PAVEMENT AT ANY ONE LOCATION AT THE SAME TIME WILL NOT BE PERMITTED PER ARTICLE 701.08 OF THE STANDARD SPECIFICATIONS.
13. PORTABLE/CHANGEABLE ELECTRONIC MESSAGE BOARDS SHALL BE USED IN ADVANCE OF THE PROJECT ACCORDING TO IDOT STANDARDS AND SHALL BE IN PLACE A MINIMUM OF 72 HOURS PRIOR TO COMMENCING THE WORK AND REMAIN THROUGHOUT THE ROADWAY CONSTRUCTION WORK.
14. ALL DISTURBED GROUND WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE RE-SEEDED (CLASS 2A), FERTILIZED, AND HAVE EXCELSIOR BLANKET INSTALLED TO THE SATISFACTION OF THE ENGINEER.
15. ALL CONSTRUCTION MATERIALS WITHIN THE COUNTY ROW MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED FOR WCDOT APPROVAL PRIOR TO USE. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE INSPECTED ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.
16. THE RESIDENT ENGINEER SHALL PROVIDE WCDOT A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION. THEY SHALL PROVIDE WCDOT ON A WEEKLY BASIS WEEKLY FIELD REPORTS UTILIZING THE APPROPRIATE IDOT FORM. THEY SHALL SUBMIT TO WCDOT A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
17. ALL CONSTRUCTION SHALL ADHERE TO I.D.O.T. DESIGN AND STANDARD SPECIFICATIONS, MUST ADHERE TO THE WILL COUNTY DIVISION OF TRANSPORTATION PERMIT REGULATIONS AND ACCESS CONTROL REGULATIONS, AND SHALL FOLLOW IDOT DRAINAGE MANUAL AT ALL TIMES.

UTILITY CONTACTS

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COMED
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CITY OF LOCKPORT
BRENT CANN, DIRECTOR OF PUBLIC WORKS & ENGINEERING
17112 S. PRIME BLVD
LOCKPORT, IL 60441
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COMCAST
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688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
224-229-5862

NICOR GAS
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1844 FERRY RD.
NAPERVILLE, IL 60563
(630) 388-3046

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS GENERAL NOTES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	3	
	PLOT SCALE = 20.0000' / in.	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			SCALE: NTS	SHEET NO. 3 OF 103 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES				0004 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	37	37	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16	16	
20101000	TEMPORARY FENCE	FOOT	377	377	
20101200	TREE ROOT PRUNING	EACH	4	4	
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	4	4	
20200100	EARTH EXCAVATION	CU YD	4,623	4,623	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	4,144	4,144	
20400800	FURNISHED EXCAVATION	CU YD	3,501	3,501	
20800150	TRENCH BACKFILL	CU YD	59	59	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,471	2,471	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10,516	10,516	
21101630	TOPSOIL FURNISH AND PLACE, 8"	SQ YD	4,207	4,207	
* 25000210	SEEDING, CLASS 2A	ACRE	2	2	
* 25000310	SEEDING, CLASS 4	ACRE	1	1	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	196	196	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	196	196	
* 25100630	EROSION CONTROL BLANKET	SQ YD	9,465	9,465	
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1,052	1,052	

SUMMARY OF QUANTITIES				0004 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	913	913	
28000305	TEMPORARY DITCH CHECKS	FOOT	426	426	
28000400	PERIMETER EROSION BARRIER	FOOT	1,067	1,067	
28000500	INLET AND PIPE PROTECTION	EACH	25	25	
28000510	INLET FILTERS	EACH	22	22	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	848	848	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	8,254	8,254	
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	531	531	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8,628	8,628	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	25	25	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	420	420	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	3,538	3,538	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,074	1,074	
42001300	PROTECTIVE COAT	SQ YD	1,346	1,346	
44000100	PAVEMENT REMOVAL	SQ YD	649	649	
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	7,164	7,164	
44004250	PAVED SHOULDER REMOVAL	SQ YD	5,036	5,036	
44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	180	180	

* DENOTES SPECIALTY ITEM

FILE NAME =	USER NAME = CEComin	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS SUMMARY OF QUANTITIES	F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 4	
\$FILEL\$	PLOT SCALE = 20.0000' / 1" =	DRAWN - NK	REVISED -			SCALE: N.T.S.	SHEET NO. 4 OF 103 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT
	PLOT DATE = 2/20/2018	CHECKED - DWB	REVISED -							CONTRACT NO. 61E47	
		DATE - 02-06-2018	REVISED -								

SUMMARY OF QUANTITIES				0004 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY		
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	180	180	
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	180	180	
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	180	180	
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	401	401	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	587	587	
54205059	PIPE CULVERTS, SPECIAL 24"	FOOT	10	10	
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	19	19	
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	25	25	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	17	17	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	3	3	
54261724	STEEL FLARED END SECTIONS 24"	EACH	2	2	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	261	261	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	7	7	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	13	13	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	151	151	
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	27	27	
55100900	STORM SEWER REMOVAL 18"	FOOT	16	16	

SUMMARY OF QUANTITIES				0004 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY		
60107600	PIPE UNDERDRAINS 4"	FOOT	460	460	
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	11	11	
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	8	8	
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	5	5	
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1	1	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	9	9	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4,689	4,689	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450	450	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
* 63200310	GUARDRAIL REMOVAL	FOOT	600	600	
67100100	MOBILIZATION	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4,107	4,107	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	505	505	

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES					0004 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
* CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	1,166	1,166		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	36,602	36,602		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3,574	3,574		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	454	454		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	432	432		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	91	91		
* 72000200	SIGN PANEL - TYPE 2	SQ FT	60	60		
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	10	10		
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	4	4		
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1		
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	13	13		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	135	135		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	583	583		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18,301	18,301		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,787	1,787		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	227	227		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	216	216		

SUMMARY OF QUANTITIES					0004 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
* CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	216	216		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8		
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	772		772	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	100		100	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	488		488	
* 81400100	HANDHOLE	EACH	3		3	
* 81400200	HEAVY-DUTY HANDHOLE	EACH	4		4	
* 81400300	DOUBLE HANDHOLE	EACH	3		3	
* 81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	705		705	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	925		925	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,996		1,996	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,990		1,990	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	100		100	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	767		767	
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		1	
* 87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1		1	
* 87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1		1	
* 87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1		1	

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES				0005 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
* CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY		
* 87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1		1
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56		56
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8		8
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	8		8
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8		8
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	10		10
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1,428		1,428
* 88700200	LIGHT DETECTOR	EACH	4		4
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1
* A2002020	TREE, AESCULUS GLABRA (OHIO BUCKEYE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2005820	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	925		925
* X0325839	SIGNAL TIMING	L SUM	1		1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	505	505	
* X1400149	LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	4		4

SUMMARY OF QUANTITIES				0004 ROADWAY 80% STU 20% LA	0021 TRAFFIC SIGNALS 80% STU 20% LA
* CODE NUMBER	ITEMS	UNIT	TOTAL QUANTITY		
* X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1
* X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	421		421
* X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	3,787	3,787	
X5010523	REMOVE CONCRETE END SECTION	EACH	3	3	
# X5420624	PIPE CULVERTS TO BE CLEANED 24"	FOOT	234	234	
# X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	155	155	
* X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	312	312	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	168	168	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	4,431	4,431	
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103	
* Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4		4
△ Z0076600	TRAINEES	HOUR	500	500	
△ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
* Z0077700	WOOD FENCE TO BE REMOVED AND RE-ERECTED	FOOT	202	202	

△ 0042

* DENOTES SPECIALTY ITEM

100% LOCAL COST, NON- PARTICIPATING

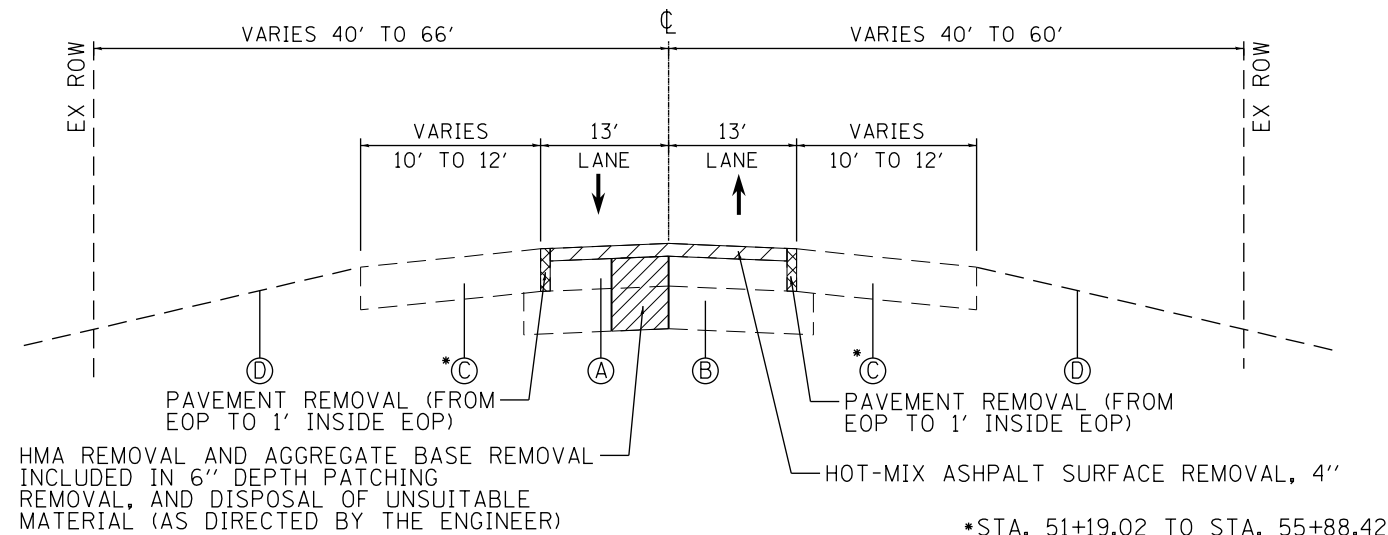
EARTHWORK SUMMARY OF QUANTITIES

	TOTAL
EARTH EXCAVATION	4,623
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL STRIPPING)	4,144
FURNISHED EXCAVATION	3,501

EARTHWORK TABLES

LOCATION	REM AND DISP OF UNSUITABLE MATERIAL (TOPSOIL STRIPPING & UNDERCUTTING) (CU YD)	EARTH EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (ADJ FOR 15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STAGE 1:					
SE GOUGAR	528	418	356	56	
SE DIVISION	357	516	439	413	
SE SUBTOTAL	885	934	795	469	+326
SW DIVISION	694	943	804	647	+157
STAGE 2:					
NE DIVISION	752	531	451	3,402	-2,951
SW GOUGAR	546	503	428	56	+372
NW GOUGAR	503	519	442	1,089	
NW DIVISION	613	900	764	546	
NW SUBTOTAL	1,116	1,419	1,206	1,635	-429
STAGE 3:					
NE GOUGAR	151	293	249	128	-121
TOTAL	4,144	4,623	3,933	6,337	-3,501

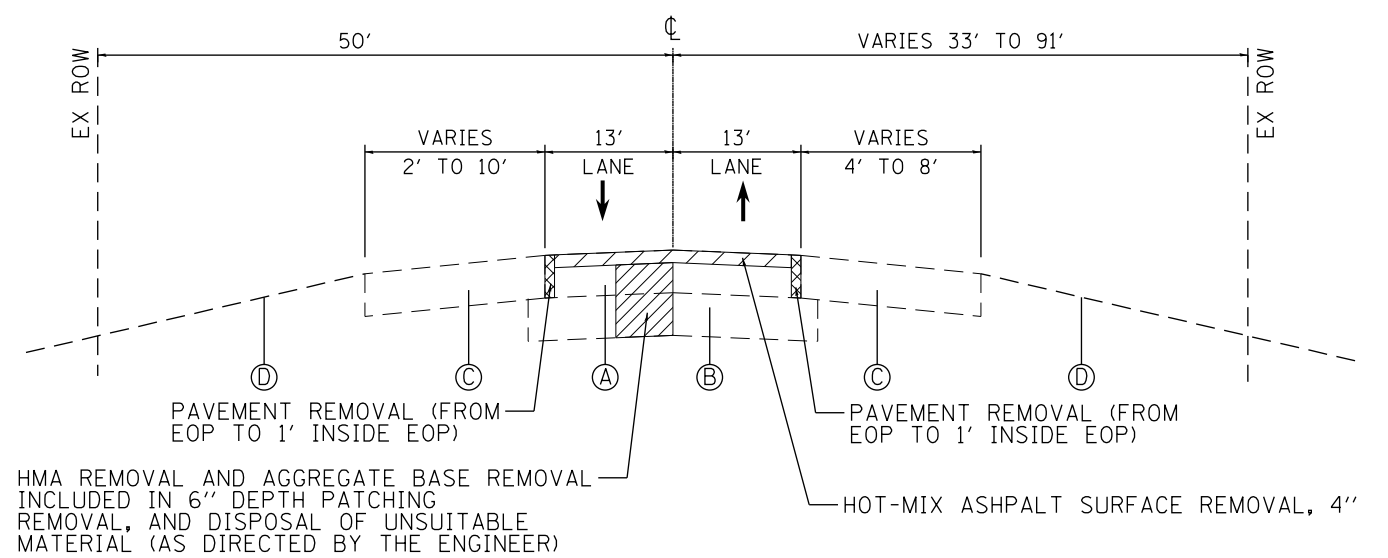
* AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE AND/OR DYNAMIC CONE PENETROMETER AND TREADED IN ACCORDANCE WITH ARTICLE 301.04 (04/01/2016) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.



EXISTING TYPICAL SECTION

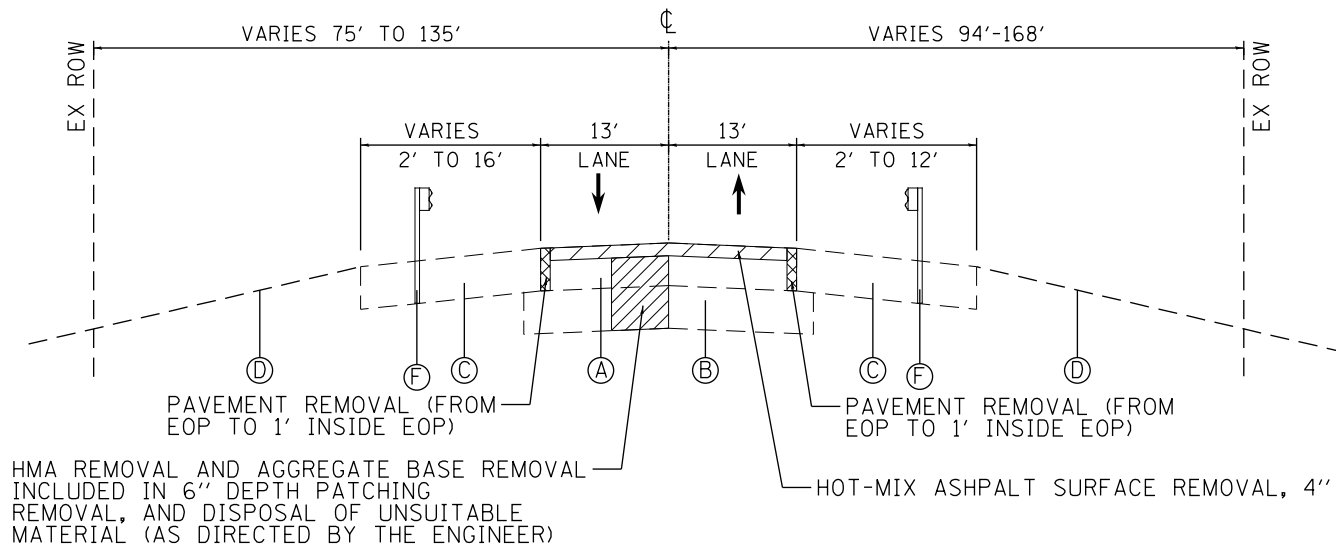
STA 51+19.02 TO STA 60+04.00, DIVISION ST./W. 167TH ST.

*STA. 51+19.02 TO STA. 55+88.42
AGGREGATE SHOULDER WIDTH
VARIES 1.3' TO 2.3'



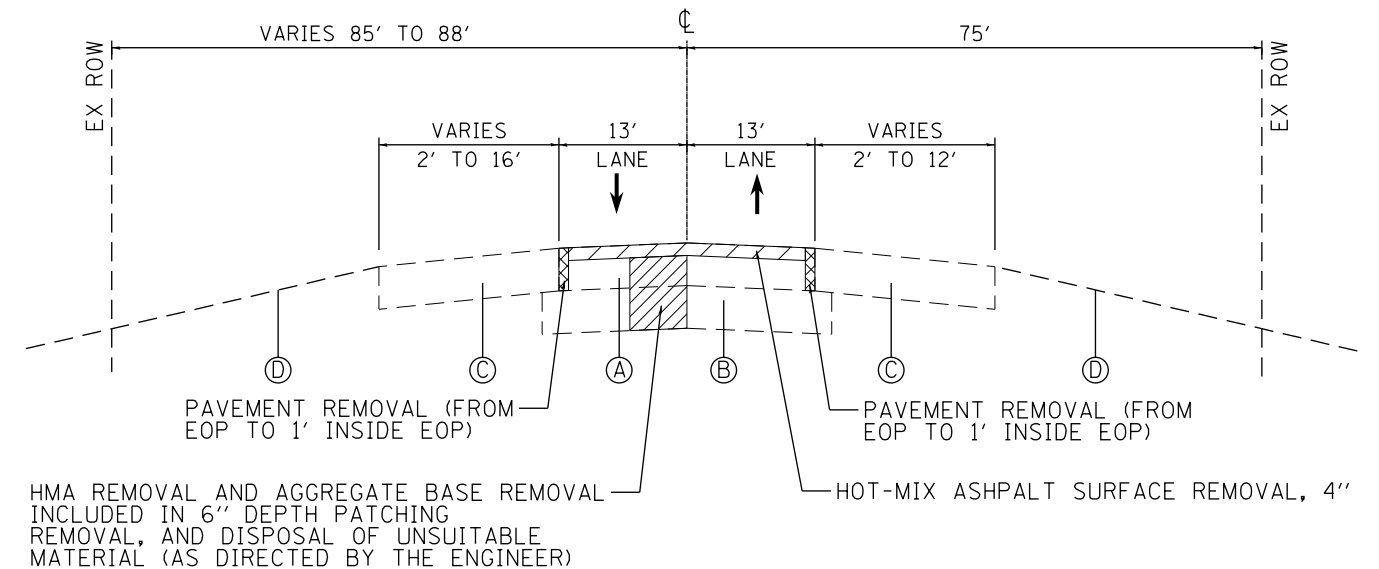
EXISTING TYPICAL SECTION

STA 11+38.42 TO STA 16+68.00, GOUGAR RD.



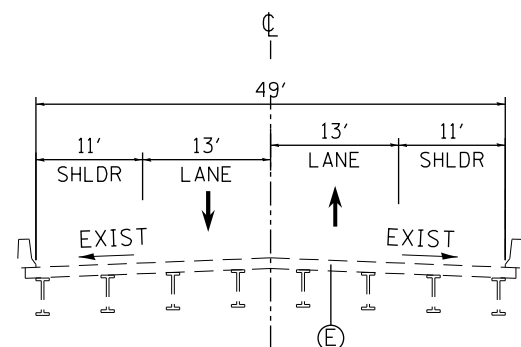
EXISTING TYPICAL SECTION

STA 61+04.00 TO STA 67+18.18, DIVISION ST./ W. 167TH ST.



EXISTING TYPICAL SECTION

STA 17+50.00 TO STA 24+27.86, GOUGAR RD.



EXISTING TYPICAL SECTION

STA 67+17.62 TO STA 70+50.00, DIVISION ST./ W. 167TH ST.
(BRIDGE OVER I-355 AT EAST PROJECT LIMIT)

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSES (VARIES 8 1/2" TO 13")
- (B) AGGREGATE/SAND BASE COURSE
- (C) HOT-MIX ASPHALT SHOULDER (VARIES 2" TO 14") (TO BE REMOVED AND PAID FOR AS PAVED SHOULDER REMOVAL) & AGGREGATE SHOULDER (PAID FOR AS EARTH EXCAVATION)
- (D) GROUND SURFACE (ASSUME EXISTING TOPSOIL DEPTH IS 6")
- (E) EXISTING STRUCTURE
- (F) EXISTING GUARDRAIL

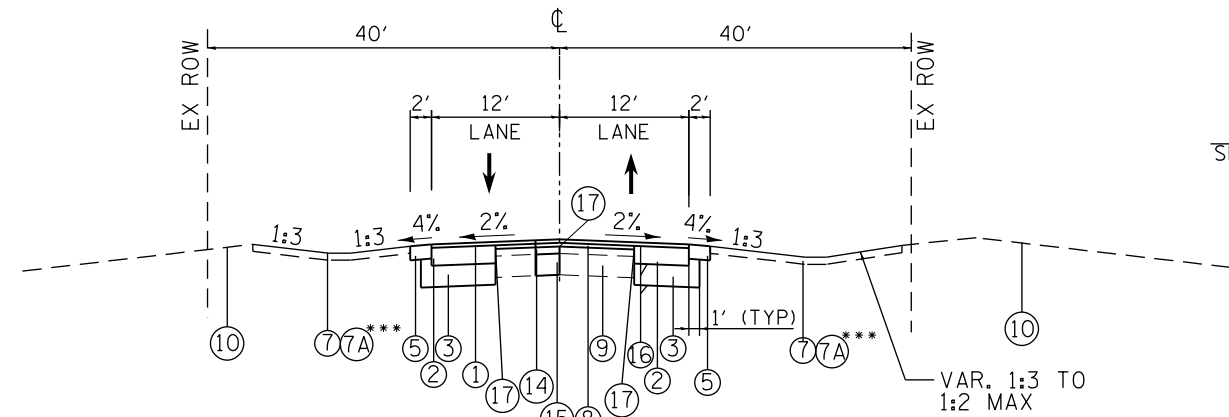
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
EXISTING TYPICAL SECTIONS

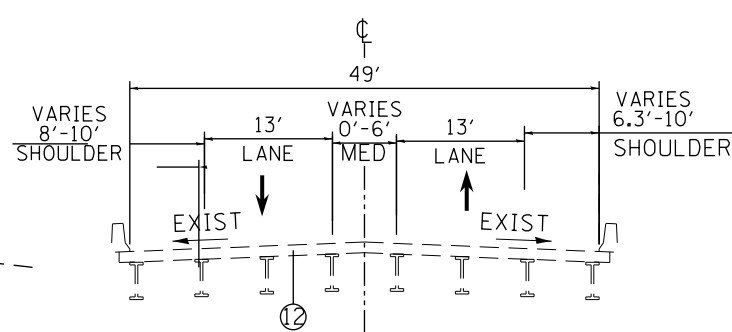
SCALE: NTS SHEET NO. 9 OF 103 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	9
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



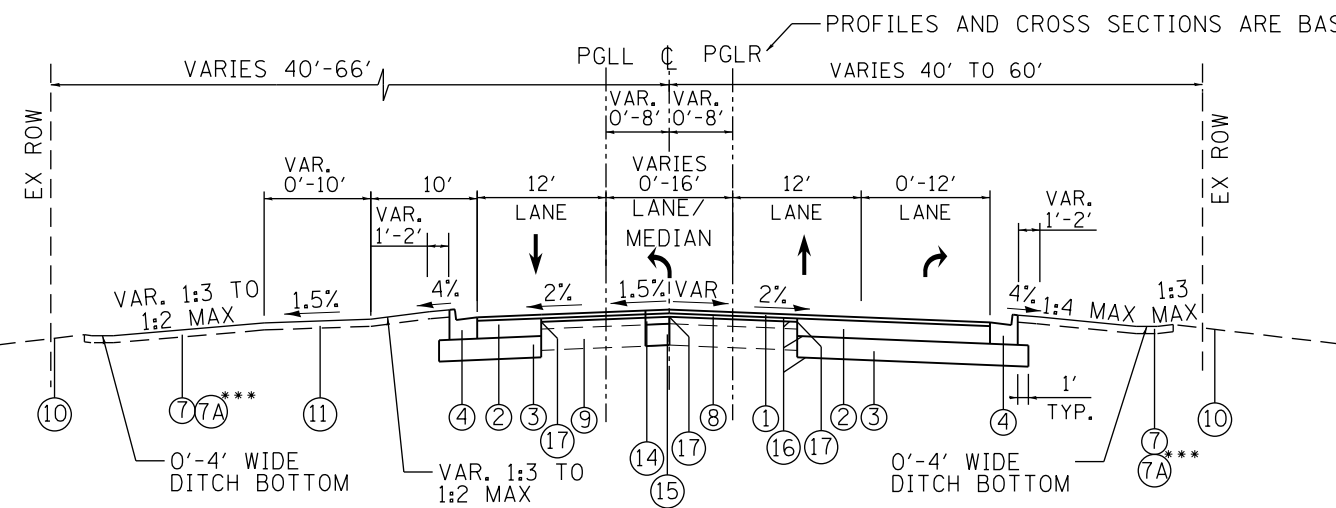
PROPOSED TYPICAL SECTION

STA 51+19.02 TO STA 51+69.00, DIVISION ST./W. 167TH ST.



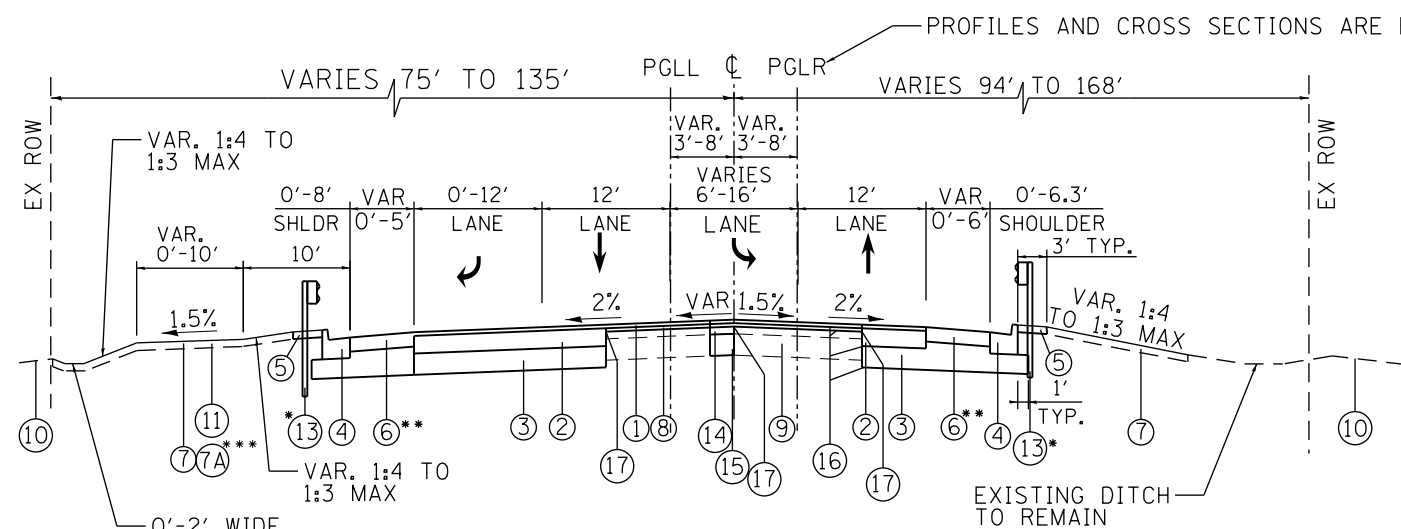
PROPOSED TYPICAL SECTION

STA 67+18.18 TO STA 70+50.00,
DIVISION ST./W. 167TH ST.
(BRIDGE OVER I-355 AT EAST PROJECT LIMIT)



PROPOSED TYPICAL SECTION

STA 51+69.00 TO STA 60+04.00, DIVISION ST./W. 167TH ST.
(OMIT INTERSECTION - STA 60+04.00 TO 61+00.00)



PROPOSED TYPICAL SECTION

STA 61+00.00 TO STA 67+18.18 DIVISION ST./W. 167TH ST.

PROPOSED LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - 8 1/2" / PCC BASE COURSE WIDENING - 8" (FOR WIDENING OF SIX FEET OR LESS)
- ③ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ④ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 *GUTTER FLAG THICKNESS TO MATCH PAVEMENT THICKNESS
- ⑤ AGGREGATE SHOULDERS, TYPE B 8"
- ⑥ HOT-MIX ASPHALT SHOULDERS 6"
- ⑦ SEEDING, CLASS 2A TOPSOIL FURNISH AND PLACE, 4" NITROGEN FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET (HEAVY DUTY EROSION CONTROL BLANKET ON SLOPES STEEPER THAN 1:3)
- ⑦A SEEDING, CLASS 4 TOPSOIL FURNISH AND PLACE, 8" EROSION CONTROL BLANKET (SPECIAL)
- ⑧ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - 2 1/2"
- ⑨ EXISTING BASE COURSE
- ⑩ EXISTING GROUND
- ⑪ GRADE FOR FUTURE MULTI-USE PATH
- ⑫ EXISTING STRUCTURE
- ⑬ STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑭ CLASS D PATCHES, 6" (AS DIRECTED BY THE ENGINEER)
- ⑮ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AGGREGATE SUBGRADE IMPROVEMENT (AS DIRECTED BY THE ENGINEER)
- ⑯ TACK COAT
- ⑰ STRIP REFLECTIVE CRACK CONTROL TREATMENT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
SHOULDERS	
HMA SHOULDER (HMA BINDER IL-19MM) 6"	4% @ 50 GYRATIONS
WIDENING	
HMA SURFACE COURSE, MIX "D". N70 (IL 9.5mm). 1 1/2"	4% @ 70 GYRATIONS
HMA BINDER COURSE, IL-19.0. N70. 8 1/2" (IN 3 LIFTS)	4% @ 70 GYRATIONS
RESURFACING	
HMA SURFACE COURSE, MIX "D". N70 (IL 9.5mm). 1 1/2"	4% @ 70 GYRATIONS
HMA BINDER COURSE, IL-19.0. N70. 2 1/2"	4% @ 70 GYRATIONS
PATCHING	
CLASS D PATCHES, (HMA BINDER IL-19mm), N70. 6" (IN 2 LIFTS)	4% @ 70 GYRATIONS

- NOTES: 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD/ IN.
 2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 FOR USE OF RECYCLED MATERIALS SEE THE SPECIAL PROVISIONS.
 3) THE CONTRACTOR SHALL MILL BEFORE PATCHING.

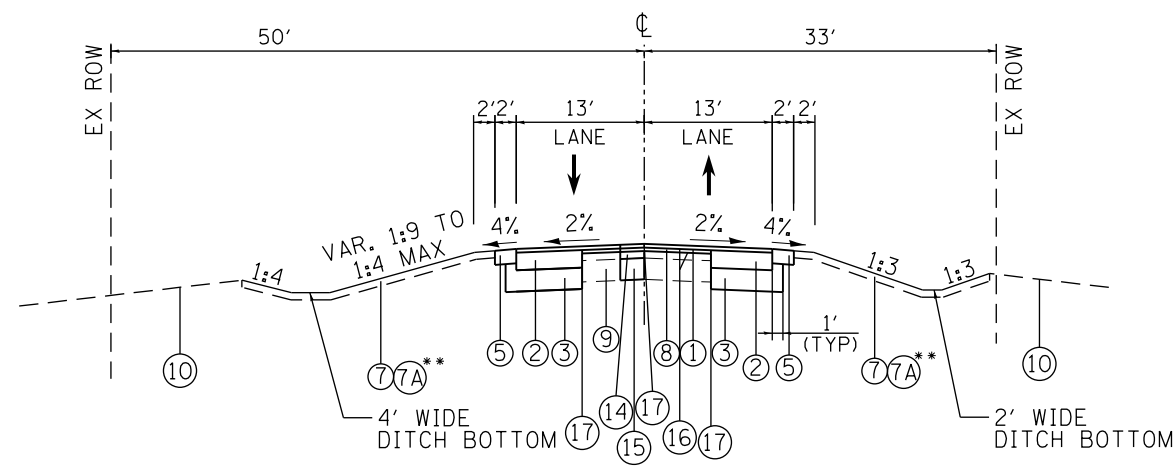
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
PROPOSED TYPICAL SECTIONS

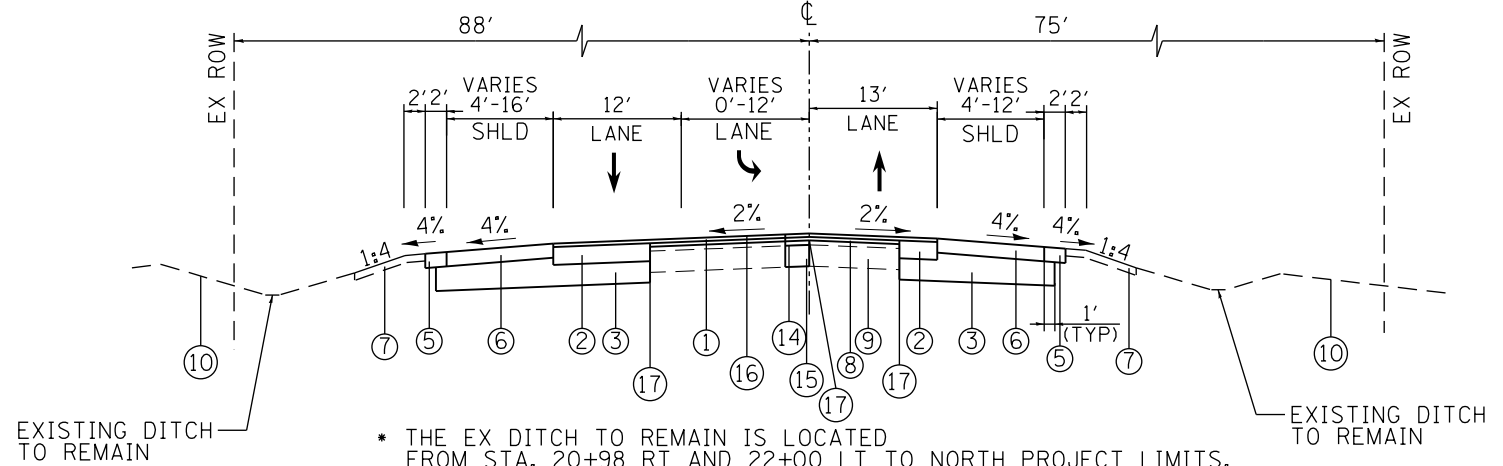
SCALE: NTS SHEET NO. 10 OF 103 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	10
			CONTRACT NO. 61E47	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



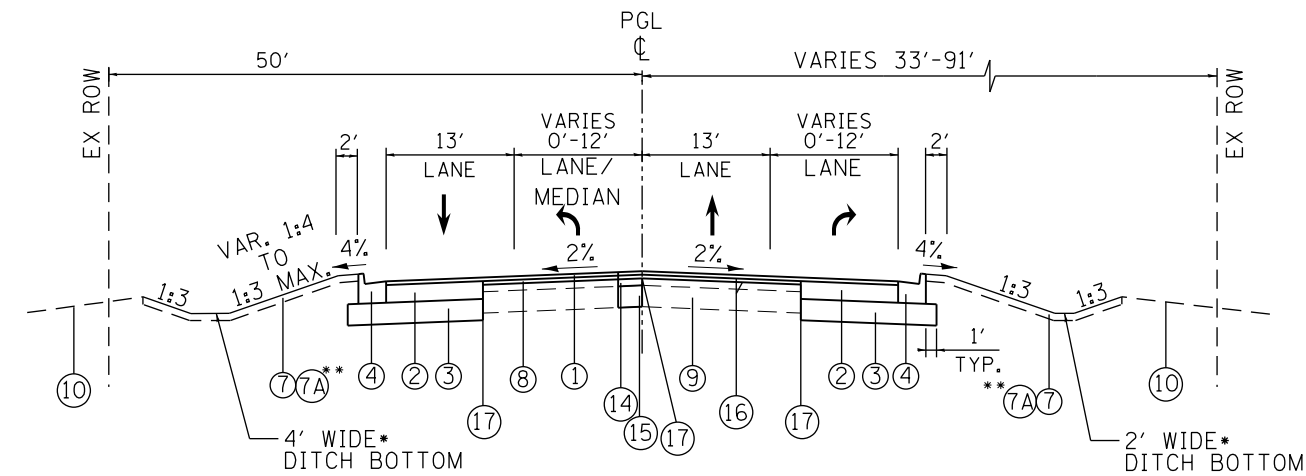
* THE DITCHES ARE LOCATED FROM STA. 11+00 LT AND 10+41 RT TO STA. 11+88.

PROPOSED TYPICAL SECTION
STA 11+38.42 TO STA 11+88.00, GOUGAR RD.



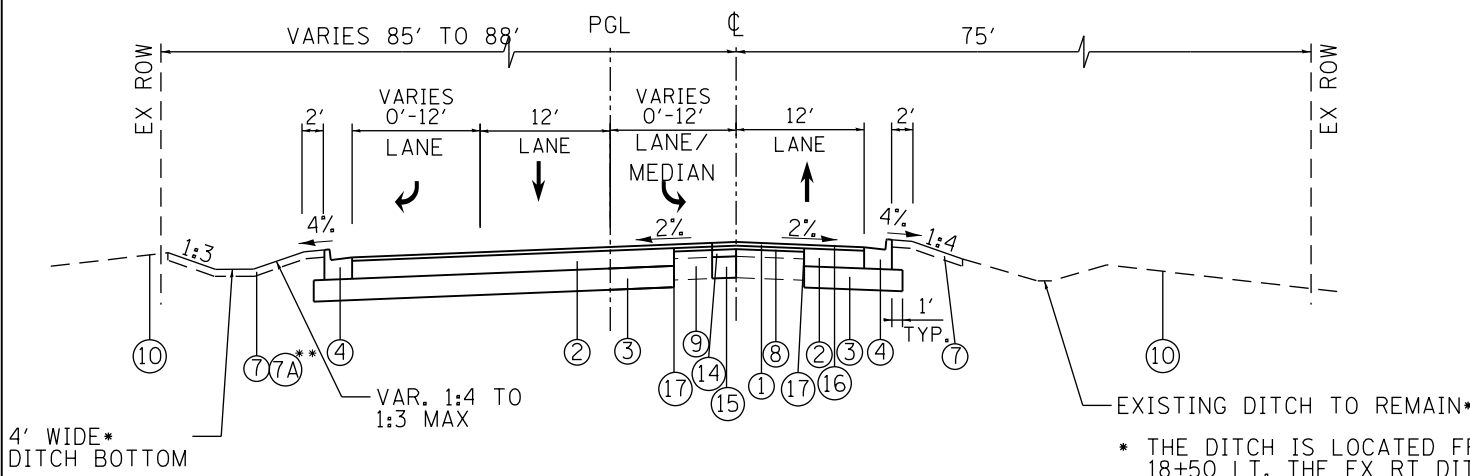
* THE EX DITCH TO REMAIN IS LOCATED FROM STA. 20+98 RT AND 22+00 LT TO NORTH PROJECT LIMITS.

PROPOSED TYPICAL SECTION
STA 20+98.00 TO STA 24+27.86, GOUGAR RD.



* THE DITCHES ARE LOCATED FROM STA. 11+88 LT AND RT TO STA. 13+00.

PROPOSED TYPICAL SECTION
STA 11+88.00 TO STA 16+58.00, GOUGAR RD.
OMIT INTERSECTION STA. 16+58.00 TO STA. 17+50.00, GOUGAR RD.



* THE DITCH IS LOCATED FROM STA. 17+50 TO 18+50 LT. THE EX RT DITCH IS FROM STA. 18+00 TO 20+98.
** SEE LANDSCAPING PLANS FOR LOCATIONS OF SEEDING, CLASS 4 AND SEEDING, CLASS 2A

PROPOSED TYPICAL SECTION
STA 17+50.00 TO STA 20+98.00, GOUGAR RD.

PROPOSED LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - 8 1/2" / PCC BASE COURSE WIDENING - 8" (FOR WIDENING OF SIX FEET OR LESS)
- ③ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ④ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑤ AGGREGATE SHOULDERS, TYPE B 8"
- ⑥ HOT-MIX ASPHALT SHOULDERS 6"
- ⑦ SEEDING, CLASS 2A TOPSOIL FURNISH AND PLACE, 4" NITROGEN FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET (HEAVY DUTY EROSION CONTROL BLANKET ON SLOPES STEEPER THAN 1:3)
- ⑦A SEEDING, CLASS 4 TOPSOIL FURNISH AND PLACE, 8" EROSION CONTROL BLANKET (SPECIAL)
- ⑧ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - 2 1/2"
- ⑨ EXISTING BASE COURSE
- ⑩ EXISTING GROUND
- ⑪ GRADE FOR FUTURE MULTI-USE PATH
- ⑫ EXISTING STRUCTURE
- ⑬ STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑭ CLASS D PATCHES, 6" (AS DIRECTED BY THE ENGINEER)
- ⑮ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AGGREGATE SUBGRADE IMPROVEMENT (AS DIRECTED BY THE ENGINEER)
- ⑯ TACK COAT
- ⑰ STRIP REFLECTIVE CRACK CONTROL TREATMENT

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PROPOSED TYPICAL SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	11	
	PLOT SCALE = 20.0000' / in.	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			SCALE: NTS	SHEET NO. 11 OF 103 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

COORDINATE INFORMATION

POINT ON ALIGNMENT	STA	NORTHING	EASTING
W. 167TH/DIVISION STREET, POT	47+00.00	1,791,025.27	1,072,225.00
W. 167TH/DIVISION STREET, POT	73+63.93	1,791,116.84	1,074,887.36
GOUGAR ROAD, POT	7+00.00	1,790,072.07	1,073,610.38
GOUGAR ROAD, POT	28+22.75	1,792,193.97	1,073,550.62

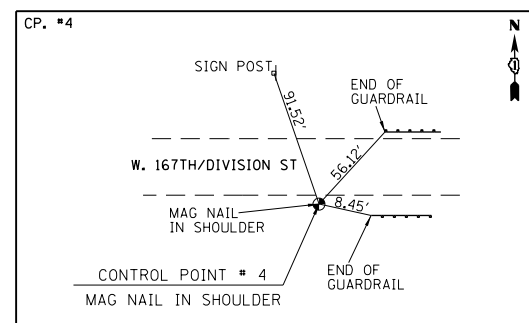
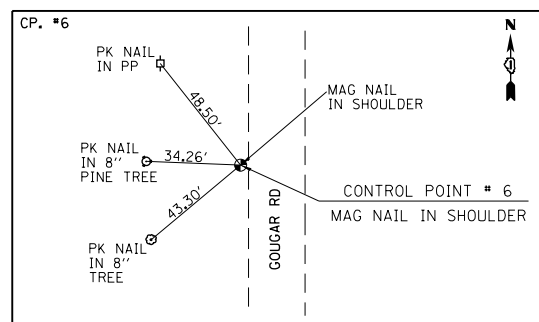
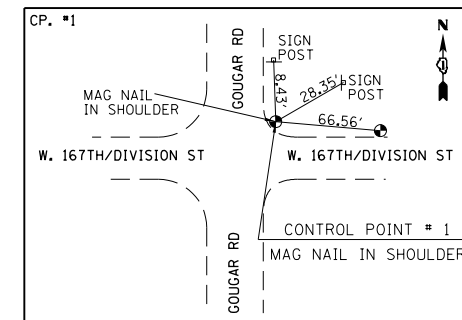
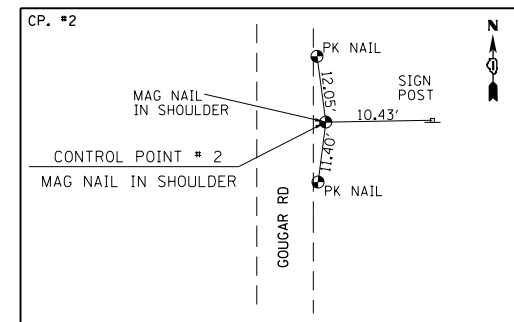
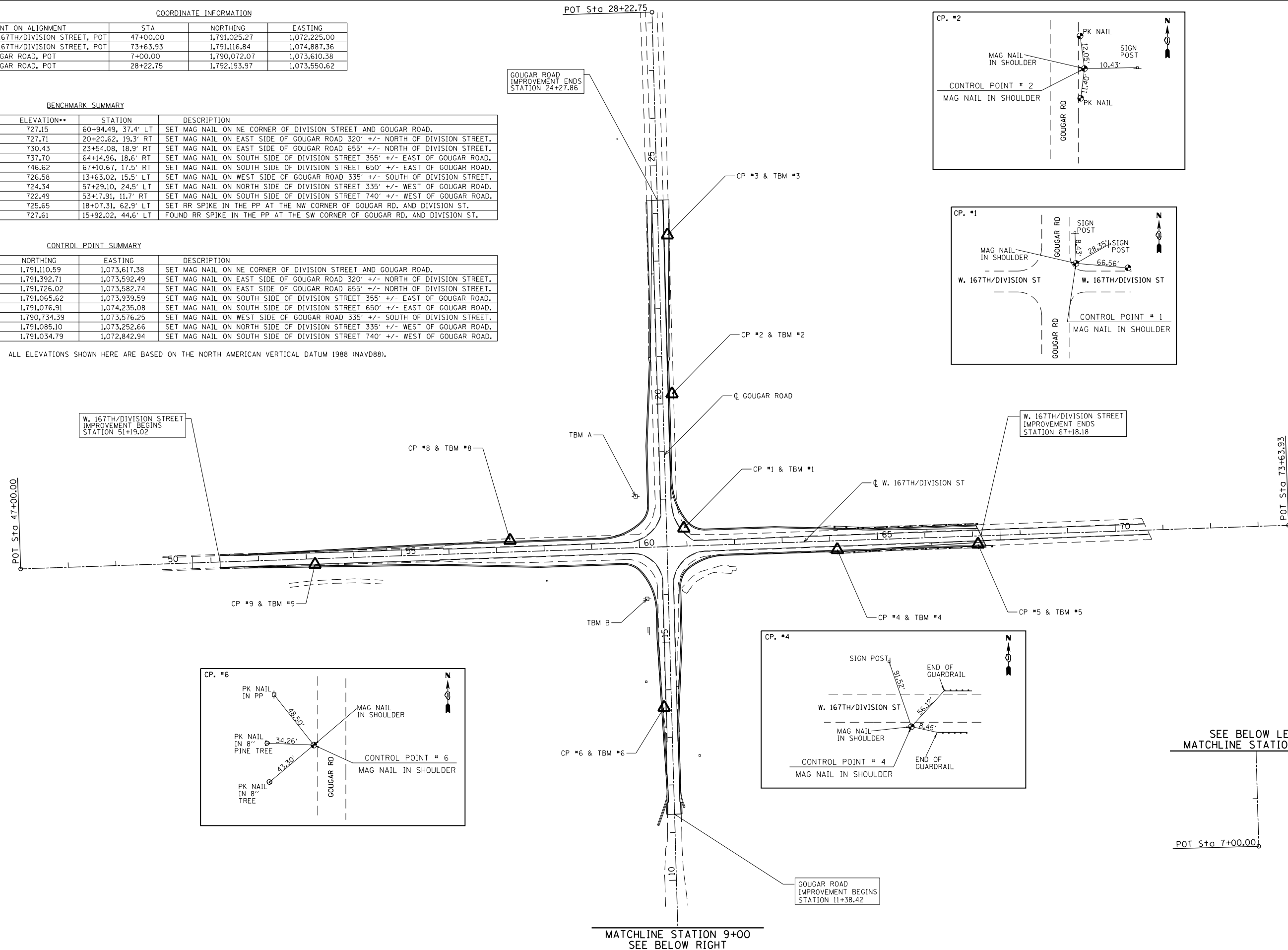
BENCHMARK SUMMARY

NAME	ELEVATION**	STATION	DESCRIPTION
TBM #1	727.15	60+94.49, 37.4' LT	SET MAG NAIL ON NE CORNER OF DIVISION STREET AND GOUGAR ROAD.
TBM #2	727.71	20+20.62, 19.3' RT	SET MAG NAIL ON EAST SIDE OF GOUGAR ROAD 320' +/- NORTH OF DIVISION STREET.
TBM #3	730.43	23+54.08, 18.9' RT	SET MAG NAIL ON EAST SIDE OF GOUGAR ROAD 655' +/- NORTH OF DIVISION STREET.
TBM #4	737.70	64+14.96, 18.6' RT	SET MAG NAIL ON SOUTH SIDE OF DIVISION STREET 355' +/- EAST OF GOUGAR ROAD.
TBM #5	746.62	67+10.67, 17.5' RT	SET MAG NAIL ON SOUTH SIDE OF DIVISION STREET 650' +/- EAST OF GOUGAR ROAD.
TBM #6	726.58	13+63.02, 15.5' LT	SET MAG NAIL ON WEST SIDE OF GOUGAR ROAD 335' +/- SOUTH OF DIVISION STREET.
TBM #8	724.34	57+29.10, 24.5' LT	SET MAG NAIL ON NORTH SIDE OF DIVISION STREET 335' +/- WEST OF GOUGAR ROAD.
TBM #9	722.49	53+17.91, 11.7' RT	SET MAG NAIL ON SOUTH SIDE OF DIVISION STREET 740' +/- WEST OF GOUGAR ROAD.
TBM A	725.65	18+07.31, 62.9' LT	SET RR SPIKE IN THE PP AT THE NW CORNER OF GOUGAR RD. AND DIVISION ST.
TBM B	727.61	15+92.02, 44.6' LT	FOUND RR SPIKE IN THE PP AT THE SW CORNER OF GOUGAR RD. AND DIVISION ST.

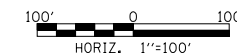
CONTROL POINT SUMMARY

NAME	NORTHING	EASTING	DESCRIPTION
CP #1	1,791,110.59	1,073,617.38	SET MAG NAIL ON NE CORNER OF DIVISION STREET AND GOUGAR ROAD.
CP #2	1,791,392.71	1,073,592.49	SET MAG NAIL ON EAST SIDE OF GOUGAR ROAD 320' +/- NORTH OF DIVISION STREET.
CP #3	1,791,726.02	1,073,582.74	SET MAG NAIL ON EAST SIDE OF GOUGAR ROAD 655' +/- NORTH OF DIVISION STREET.
CP #4	1,791,065.62	1,073,939.59	SET MAG NAIL ON SOUTH SIDE OF DIVISION STREET 355' +/- EAST OF GOUGAR ROAD.
CP #5	1,791,076.91	1,074,235.08	SET MAG NAIL ON SOUTH SIDE OF DIVISION STREET 650' +/- EAST OF GOUGAR ROAD.
CP #6	1,790,734.39	1,073,576.25	SET MAG NAIL ON WEST SIDE OF GOUGAR ROAD 335' +/- SOUTH OF DIVISION STREET.
CP #8	1,791,085.10	1,073,252.66	SET MAG NAIL ON NORTH SIDE OF DIVISION STREET 335' +/- WEST OF GOUGAR ROAD.
CP #9	1,791,034.79	1,072,842.94	SET MAG NAIL ON SOUTH SIDE OF DIVISION STREET 740' +/- WEST OF GOUGAR ROAD.

** NOTE: ALL ELEVATIONS SHOWN HERE ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).



SEE BELOW LEFT MATCHLINE STATION 9+00



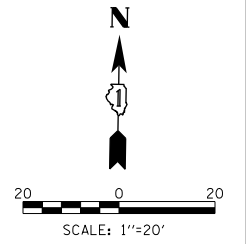
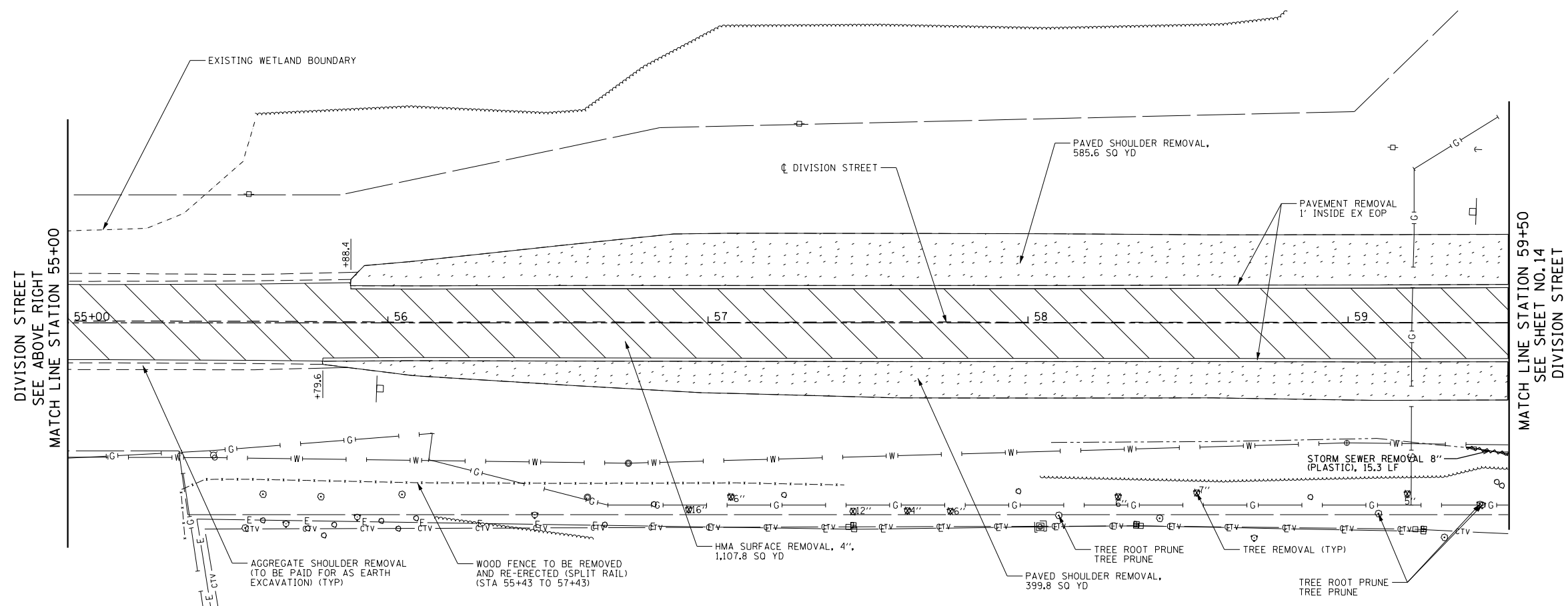
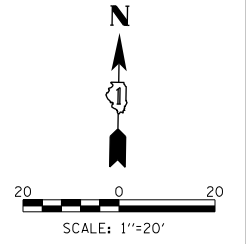
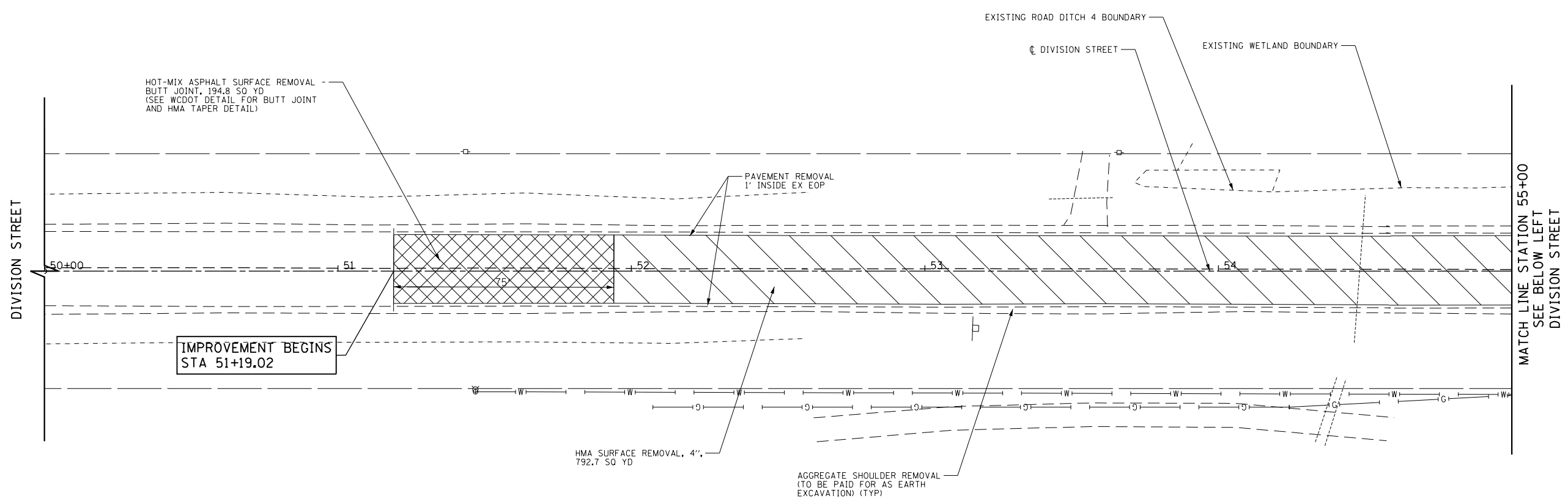
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

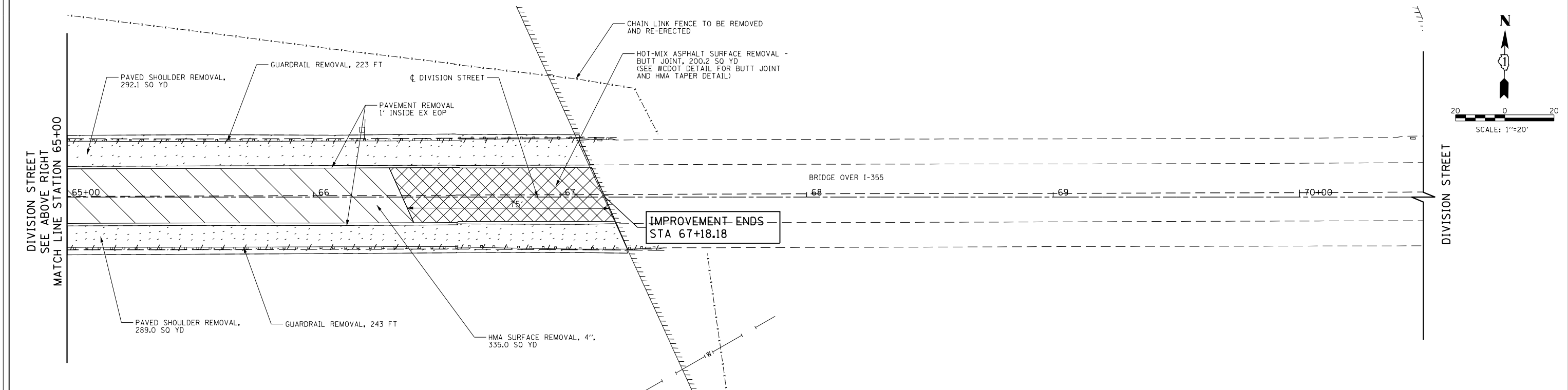
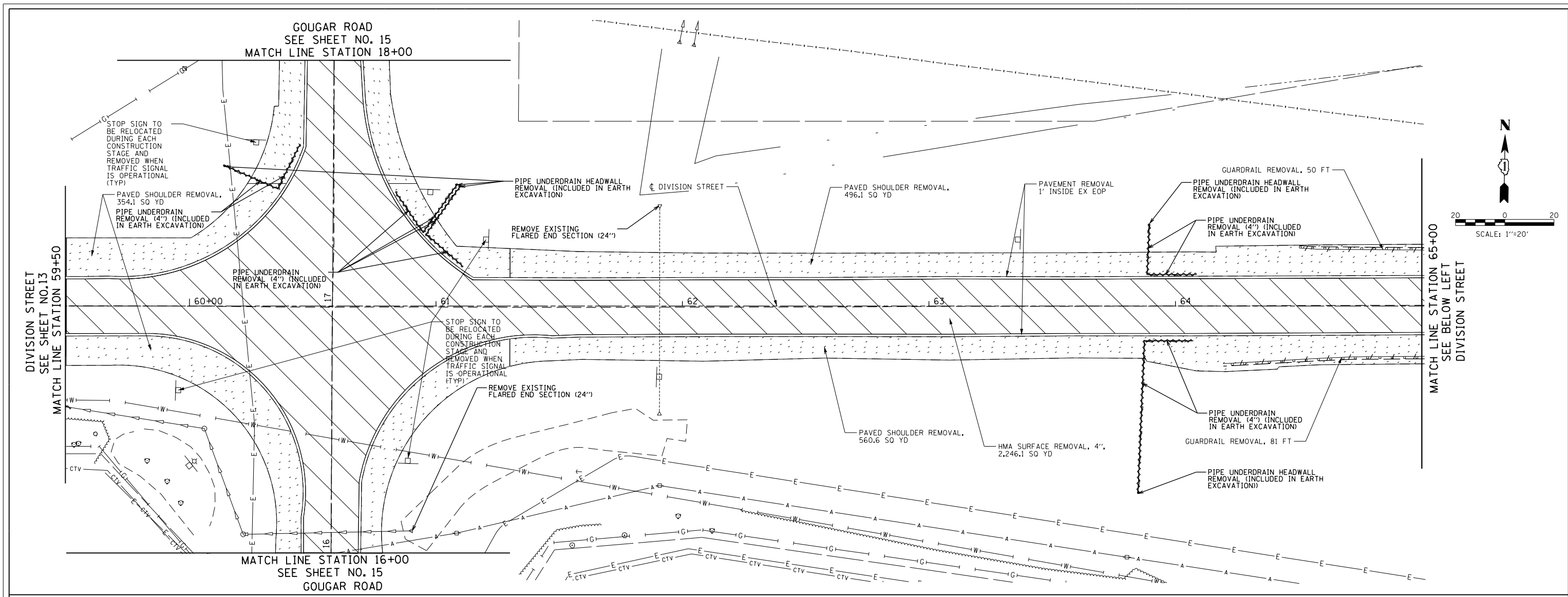
W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 100' SHEET NO. 12 OF 103 SHEETS STA. TO STA.

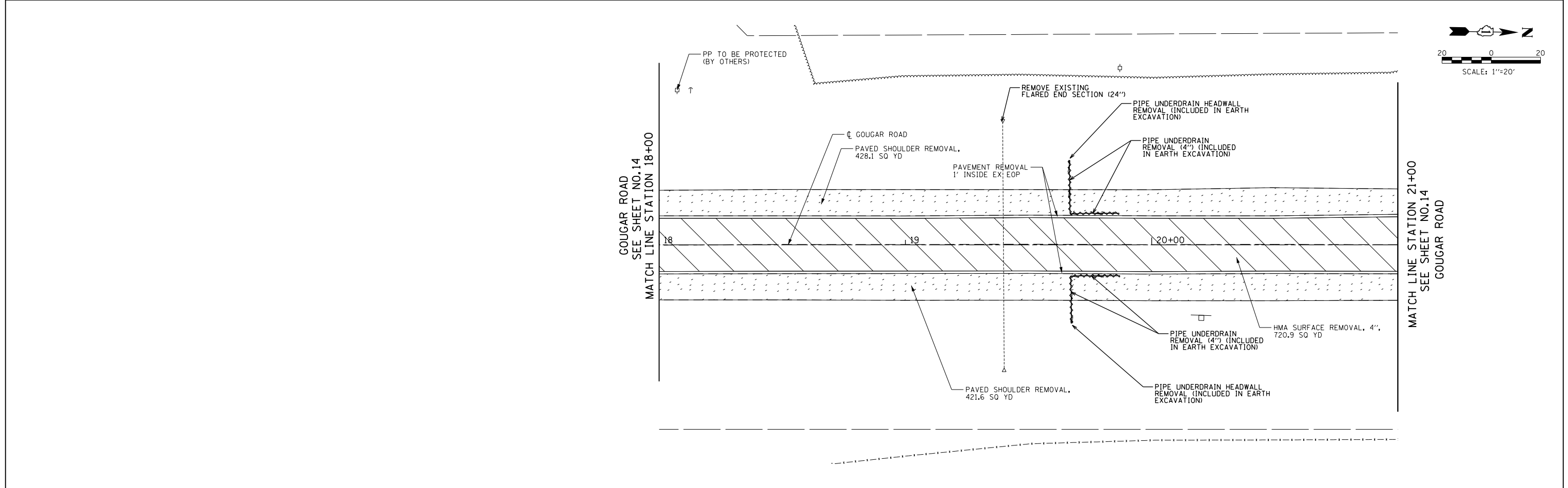
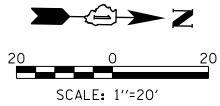
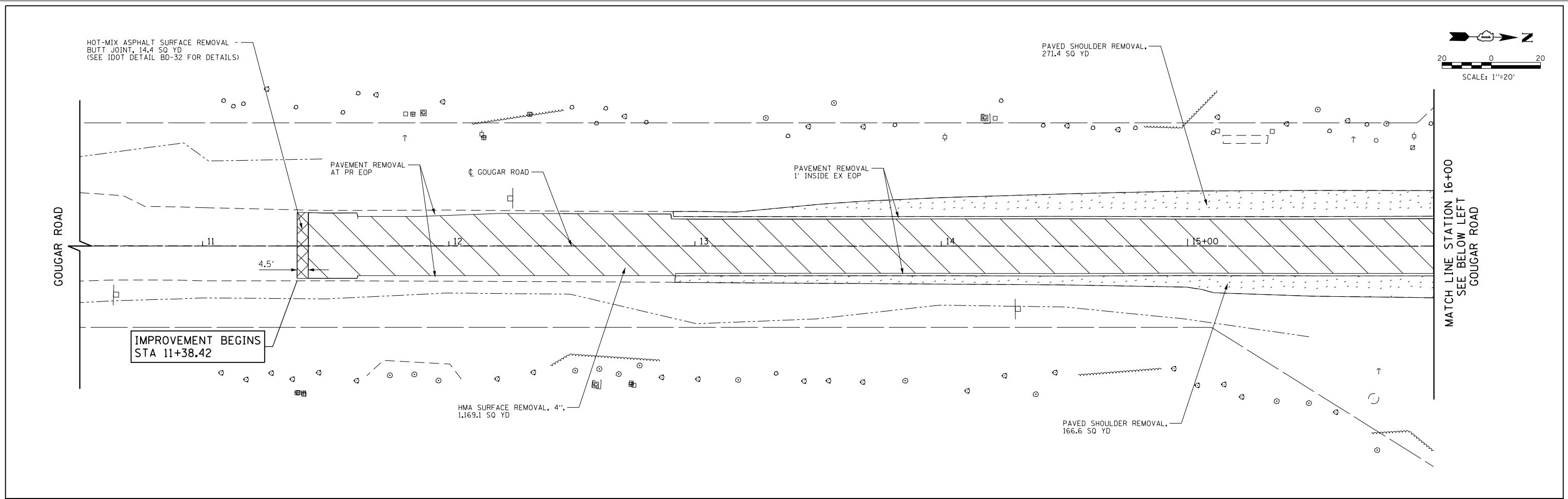
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	12
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



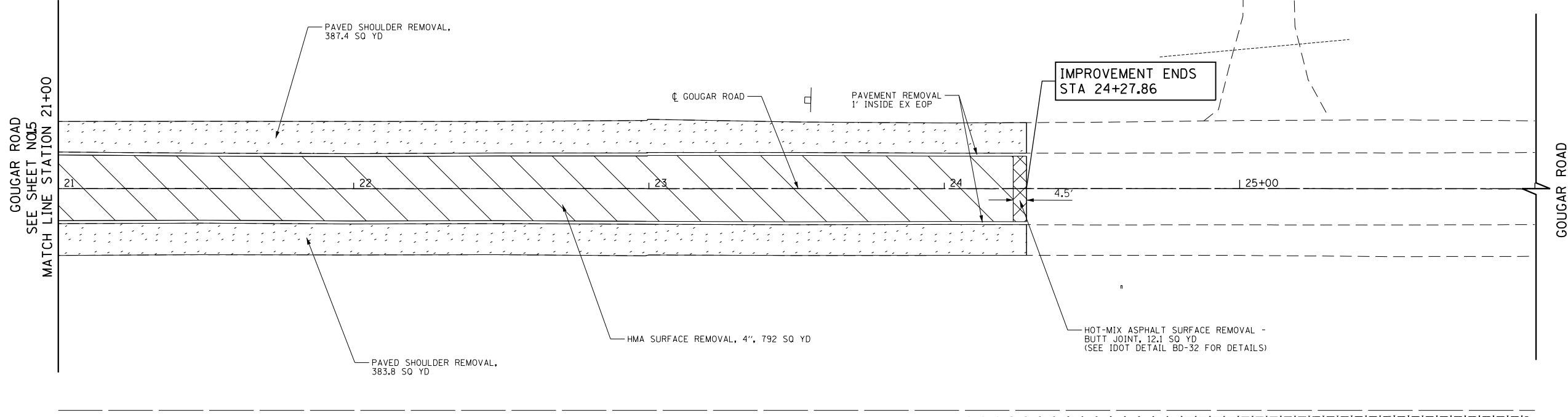
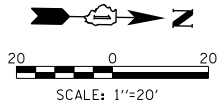
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS REMOVAL PLANS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



FILE NAME = *FILEL*	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS REMOVAL PLANS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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								FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



FILE NAME = *FILEL*	USER NAME = Mibeering	DESIGNED - NK	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

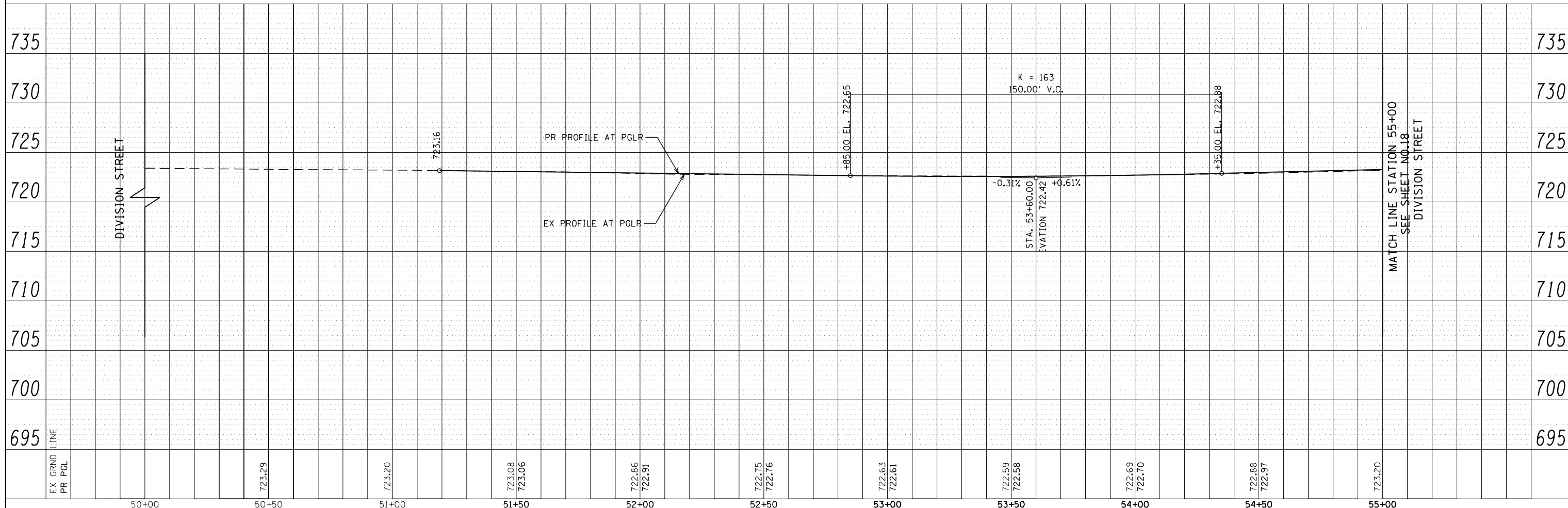
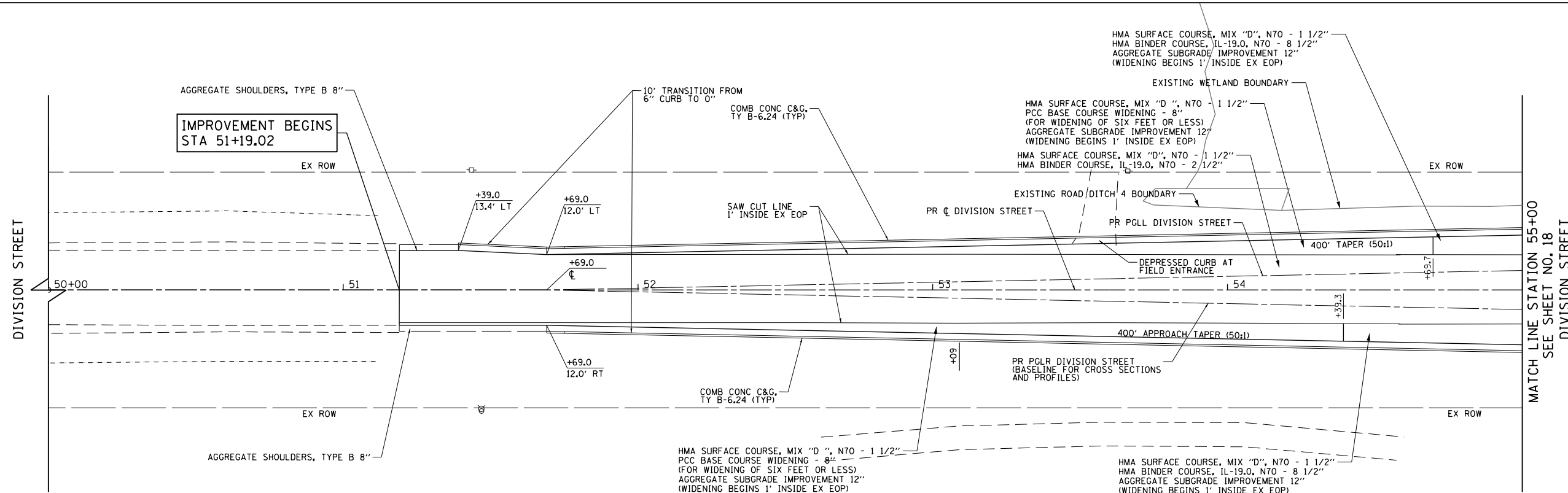
**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
REMOVAL PLANS**

SCALE: 1"=20' SHEET NO. 16 OF 103 SHEETS STA. 21+00 TO STA. 26+00

F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 16
CONTRACT NO. 61E47			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
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	ALIGNED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
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	GRADES		
	STRUCTURE		
	NOTATIONS		
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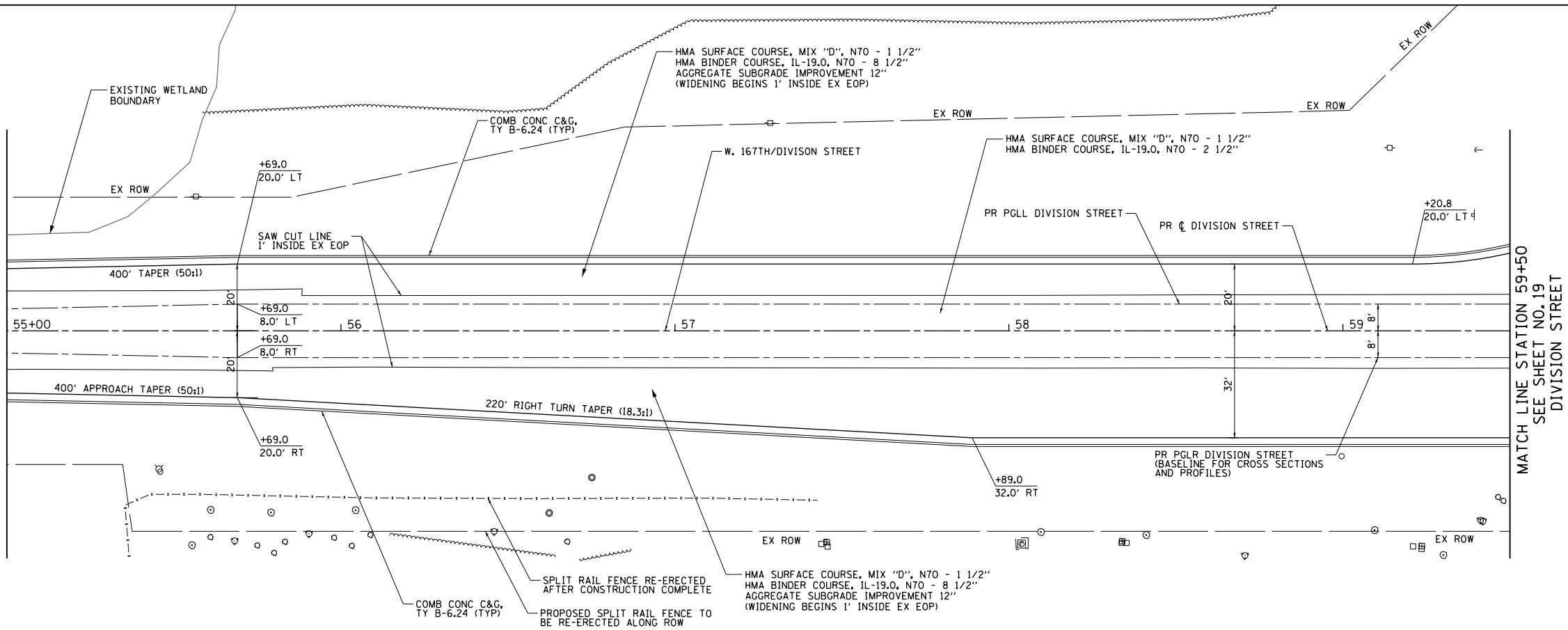


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FILEL		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	17	
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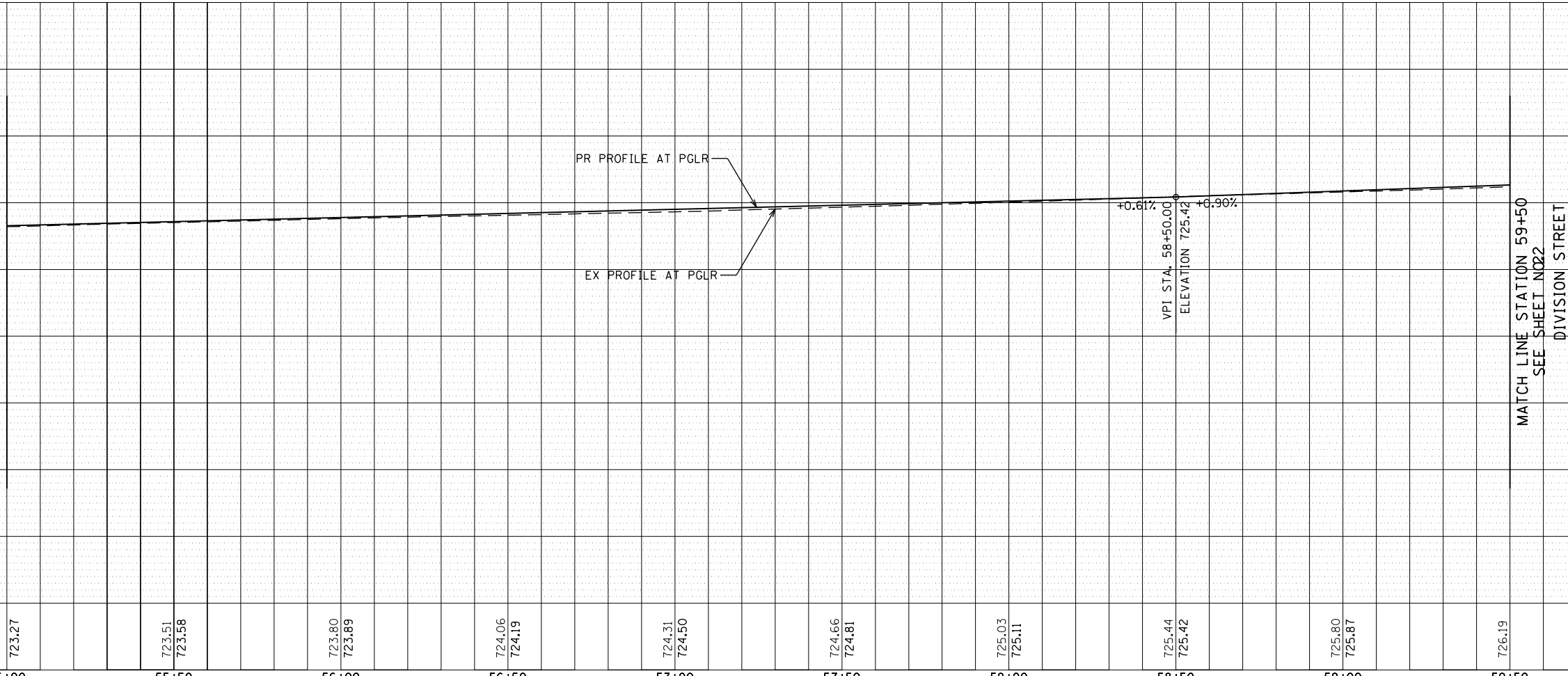
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	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATIONS		
NOTE BOOK NO.	CADD FILE NAME		

DIVISION STREET
SEE SHEET NO.17
MATCH LINE STATION 55+00



DIVISION STREET
SEE SHEET NO.17
MATCH LINE STATION 55+00

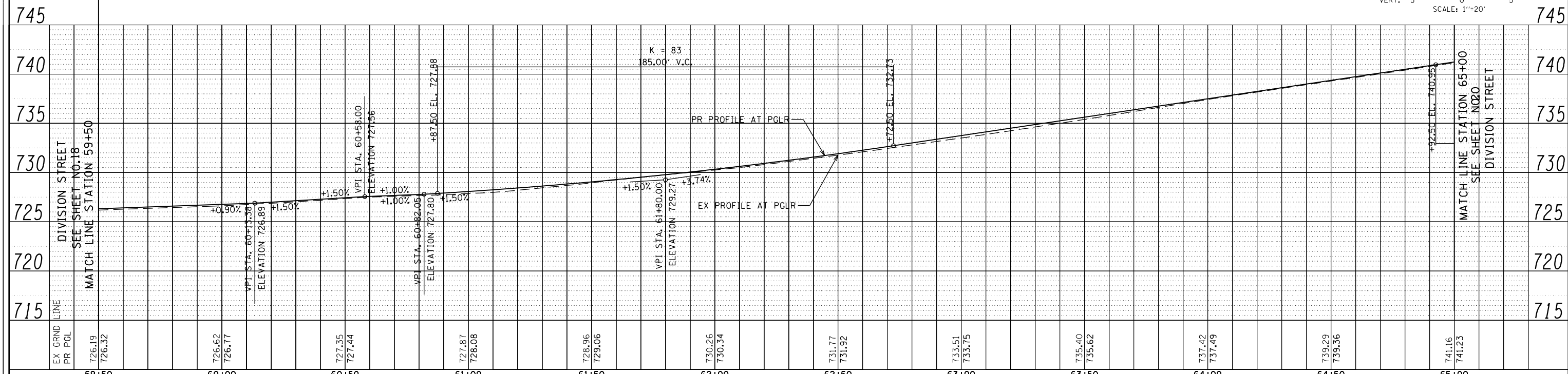
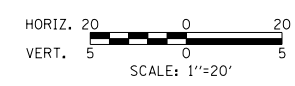
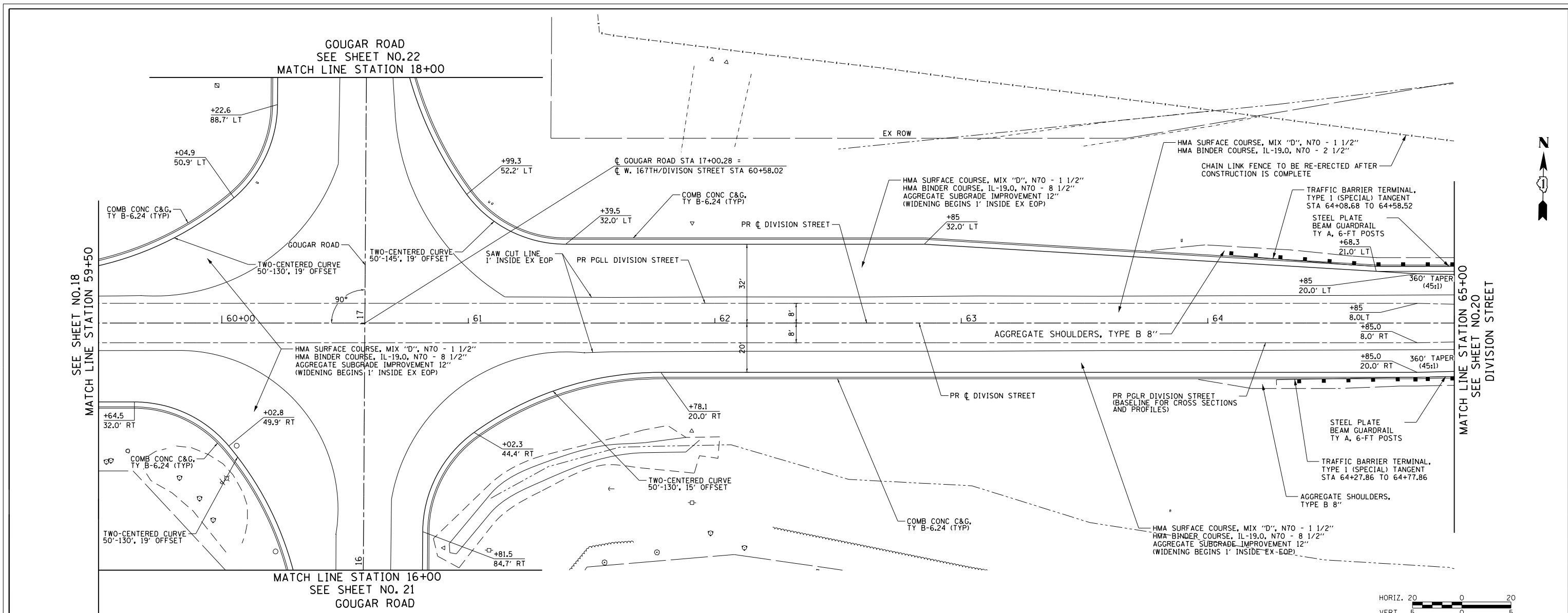


MATCH LINE STATION 59+50
SEE SHEET NO.18
DIVISION STREET

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PLAN AND PROFILE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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								FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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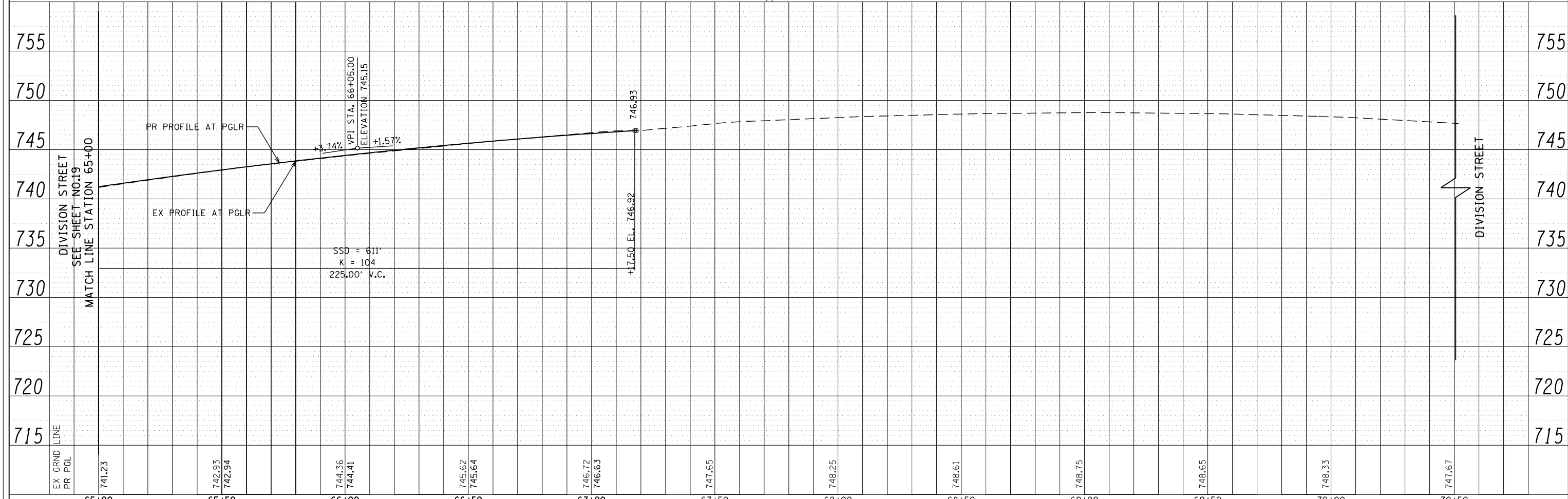
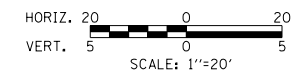
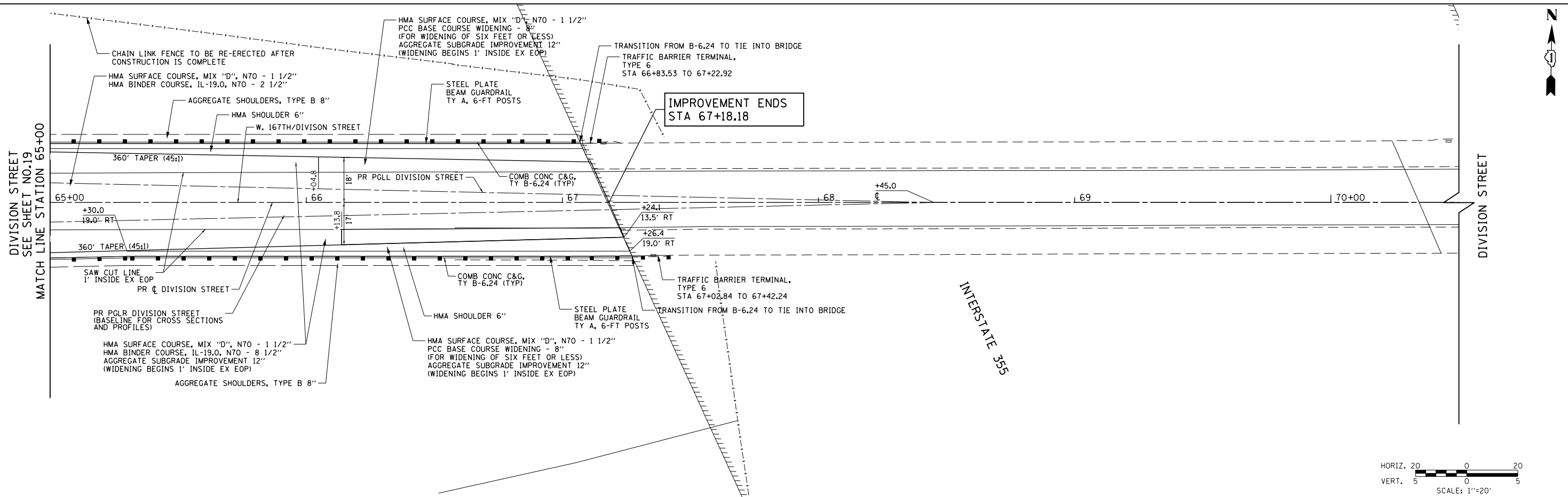
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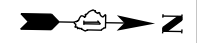
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	PLOT DATE = 2/6/2018	DATE = 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	BY	DATE
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	FILE NAME		

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	FILE NAME		

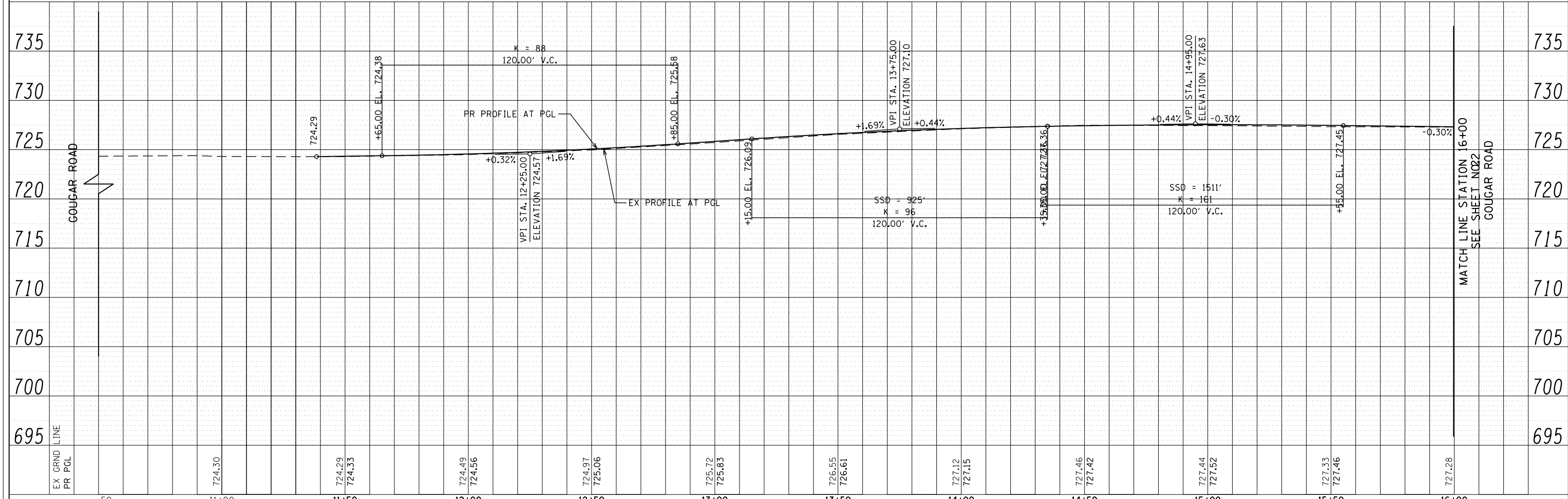
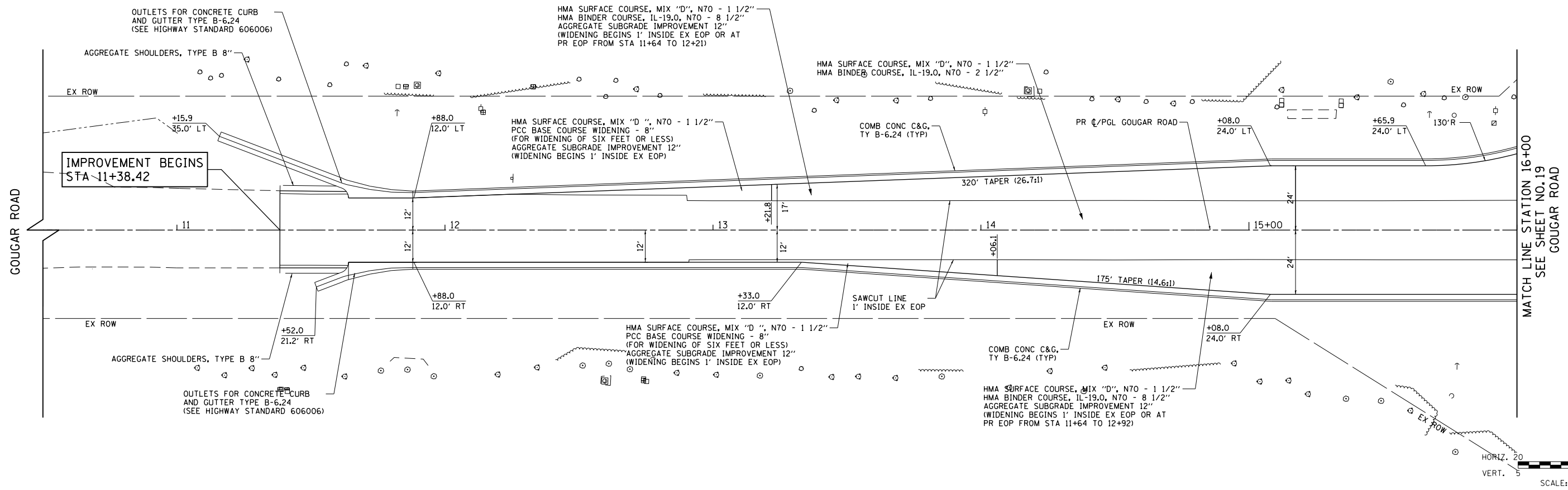


FILE NAME =	USER NAME = Mibeening	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PLAN AND PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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						FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

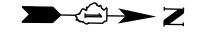


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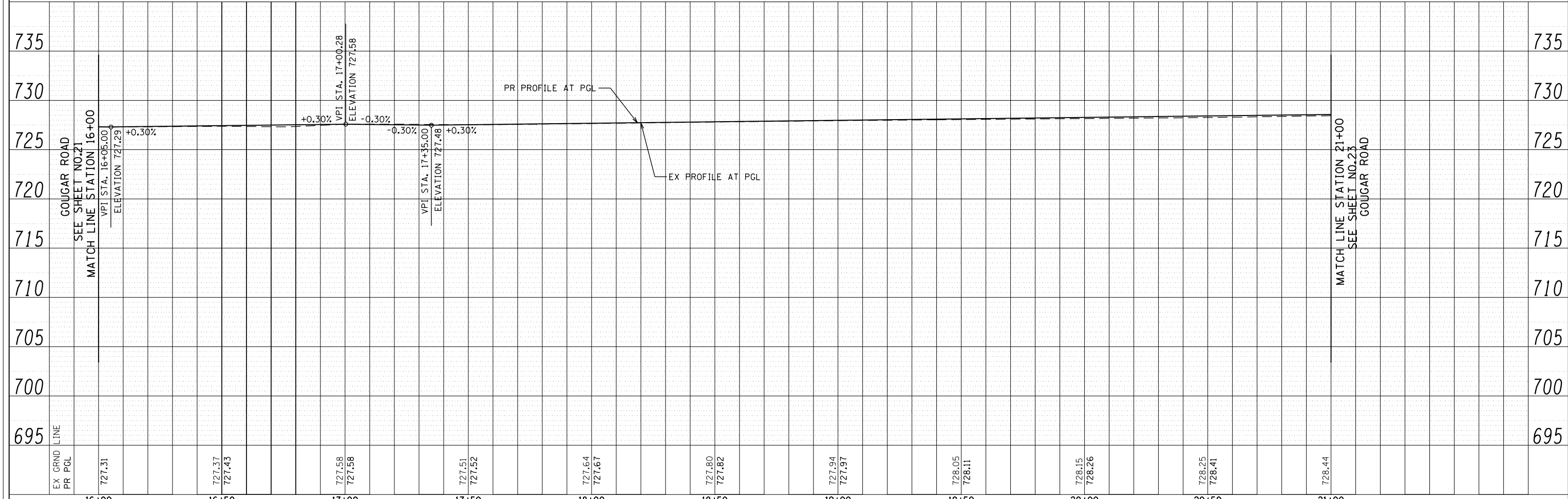
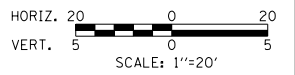
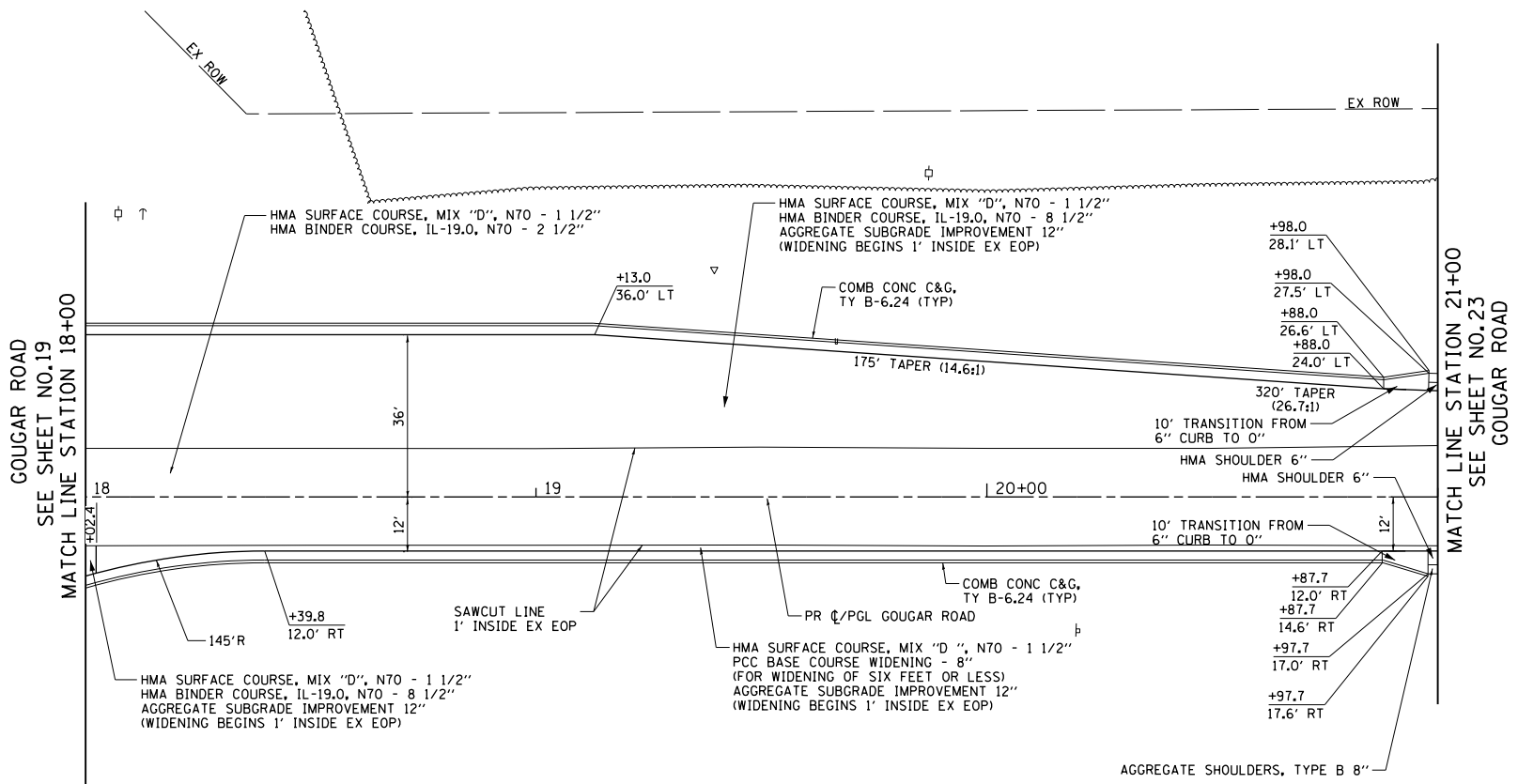


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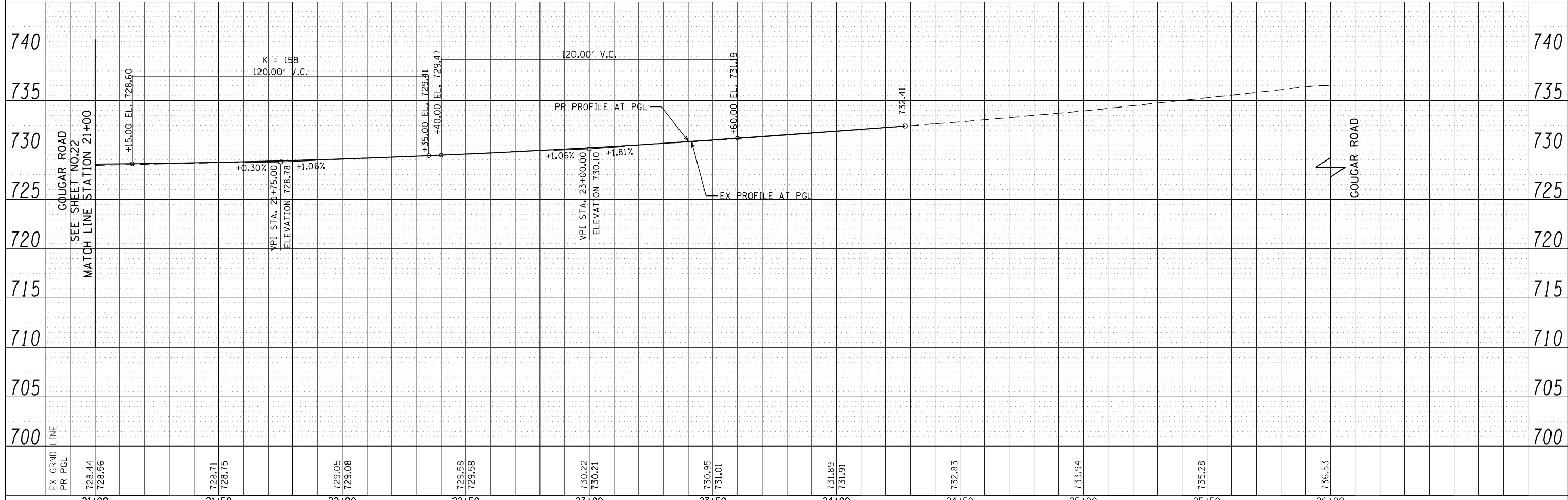
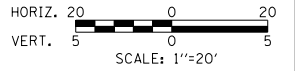
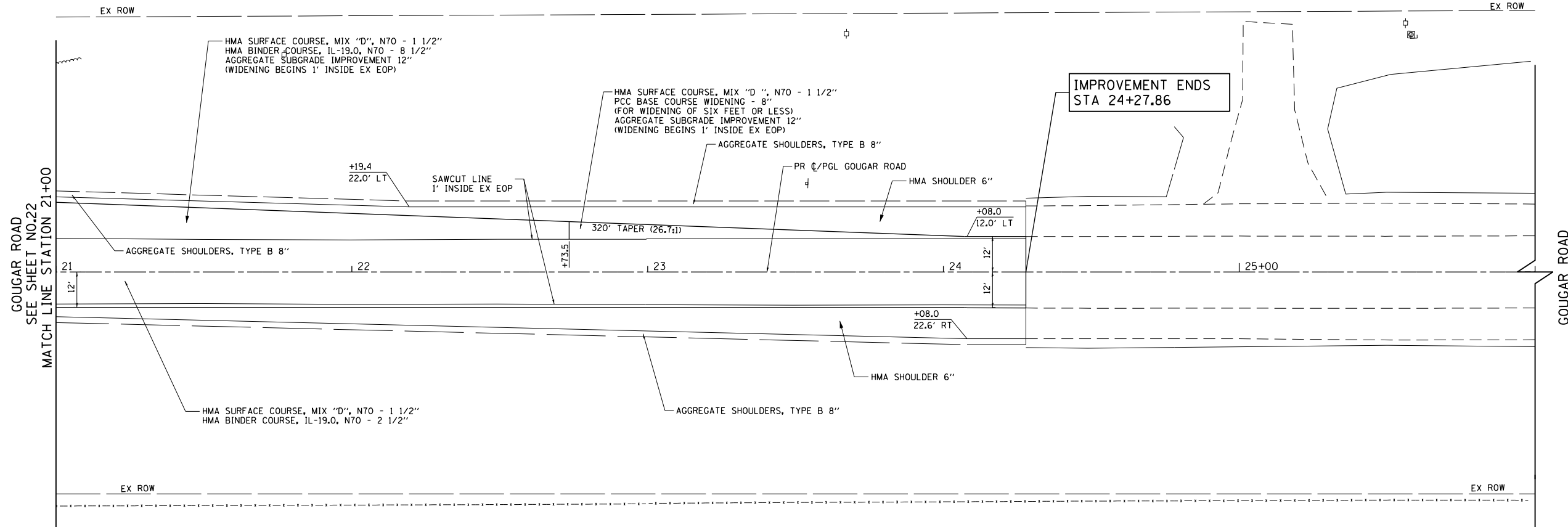
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PLAN	SURVEYED	BY	DATE
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NOTE BOOK NO.	CADD FILE NAME		

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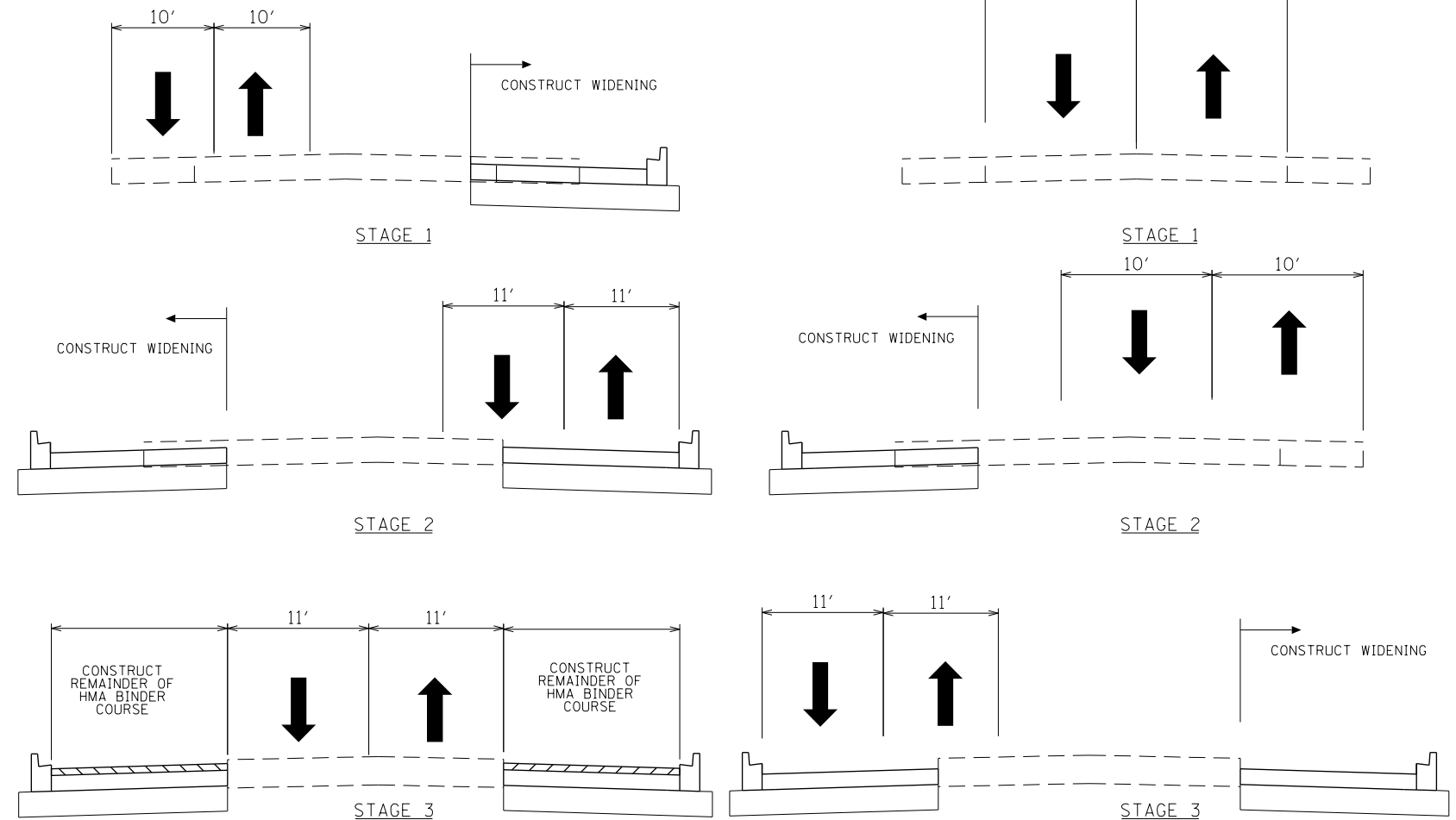
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT						

MOT GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, STATE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
3. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL - GRINDING OR PAVEMENT MARKING REMOVAL - WATER BLASTING. REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHALL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL.
4. THE FURNISHING, INSTALLATION AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS SHALL ALSO BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING DRAINAGE OF THE ROADWAY DURING ALL STAGES OF CONSTRUCTION.
6. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED BY THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED IN THE COST OF THE PAY ITEM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIAL PROVISIONS.
7. THE CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE PLACED TWO WEEKS BEFORE THE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AS CHANGEABLE MESSAGE SIGN AT THE CONTRACT UNIT PRICE PER CALENDAR DAY.
8. ALL TRAFFIC CONTROL WARNING SIGNS AND ASSOCIATED SIGNING MOUNTED WITH THE WARNING SIGNS SHALL HAVE BLACK LEGENDS AND BORDERS ON FLUORESCENT ORANGE REFLECTIVE SHEETING AND SHALL BE IN ACCORDANCE WITH THE MOST RECENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE ILLINOIS SUPPLEMENT TO THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
9. ALL CONSTRUCTION SIGNS, BARRICADES AND OTHER DEVICES REQUIRED TO CONTROL TRAFFIC SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR.
10. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3 INCH X 6 INCH DELINEATOR INSTALLED.
11. DURING CONSTRUCTION, THE DROP-OFF FROM THE EDGE OF THE TRAVELED LANE, WITHIN 4', SHALL NOT EXCEED 18" AT ANY LOCATION FOR MORE THAN 96 HOURS. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED AGGREGATE SUBGRADE UP TO THE EDGE OF EXISTING PAVEMENT DURING EACH STAGE TO MINIMIZE THE DROP-OFF.
12. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED ON ALL FINAL PAVEMENT WEARING SURFACES. TEMPORARY PAVEMENT MARKING PAINT SHALL BE USED ELSEWHERE.
13. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE ALL REFLECTORS FROM EXISTING RAISED REFLECTIVE PAVEMENT MARKERS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL.
14. THE CONTRACTOR SHALL PROVIDE NOTICE TO THE PUBLIC A MINIMUM OF 3 DAYS IN ADVANCE OF ANY WORK THAT REQUIRES THE CLOSURE OF LANES AND/OR CHANGE IN TRAFFIC PATTERNS THROUGH THE USE OF TEMPORARY INFORMATION SIGNING.

**DIVISION STREET (EAST & WEST LEGS)
GOUGAR ROAD (SOUTH LEG)**

GOUGAR ROAD (NORTH LEG)



STAGING NOTES

PRE-STAGE 1

1. MILL 4" OF EXISTING PAVEMENT THROUGHOUT PROJECT
2. PROVIDE DAILY LANE CLOSURES AND FLAGGERS AS REQUIRED. WORK INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL).

STAGE 1

1. MOVE TRAFFIC TO THE NORTH SIDE OF DIVISION STREET (EAST AND WEST LEGS) AND TO THE WEST SIDE OF GOUGAR ROAD (SOUTH LEG). MAINTAIN THE EXISTING TRAFFIC PATTERN ON THE NORTH LEG OF GOUGAR ROAD.
2. CONSTRUCT THE PROPOSED CURB & GUTTER AND PAVEMENT WIDENING ON THE SOUTH SIDE OF DIVISION STREET (EAST AND WEST LEGS) AND ON THE EAST SIDE OF GOUGAR ROAD (SOUTH LEG). PAVE 6" OF THE PROPOSED 8-1/2" BINDER COURSE IN TWO SEPARATE LIFTS. CONSTRUCT THE PROPOSED DITCHES, CULVERT EXTENSIONS, AND STORM SEWER SYSTEM. PROVIDE GAPS IN THE PROPOSED CURB & GUTTER AT THE DRAINAGE STRUCTURE LOCATIONS, AND TEMPORARILY ADJUST THE FRAME AND GRATES SO THE RIM ELEVATION MATCHES THE TOP OF THE 6" CONSTRUCTED HMA BINDER COURSE (4" BELOW FINAL GRADE).
3. CONSTRUCT WEST END OF DIVISION STREET AND SOUTH END OF GOUGAR ROAD UNDER SINGLE LANE OF FLAGGED TRAFFIC AS NOTED ON PLANS. LANE CLOSURES SHALL ONLY BE ALLOWED BETWEEN 9:00 A.M. AND 3:00 P.M. WORK INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL).

STAGE 2

1. MOVE TRAFFIC TO THE SOUTH SIDE OF DIVISION STREET (EAST AND WEST LEGS) AND TO THE EAST SIDE OF GOUGAR ROAD (NORTH AND SOUTH LEGS).
2. CONSTRUCT THE PROPOSED CURB & GUTTER AND PAVEMENT WIDENING ON THE NORTH SIDE OF DIVISION STREET (EAST AND WEST LEGS) AND ON THE WEST SIDE OF GOUGAR ROAD (SOUTH LEG). PAVE 6" OF THE PROPOSED 8-1/2" BINDER COURSE IN TWO SEPARATE LIFTS. CONSTRUCT THE PROPOSED DITCHES, CULVERT EXTENSIONS, AND STORM SEWER SYSTEM. PROVIDE GAPS IN THE PROPOSED CURB & GUTTER AT THE DRAINAGE STRUCTURE LOCATIONS, AND TEMPORARILY ADJUST THE FRAME AND GRATES SO THE RIM ELEVATION MATCHES THE TOP OF THE 6" CONSTRUCTED HMA BINDER COURSE (4" BELOW FINAL GRADE).
3. CONSTRUCT WEST END OF DIVISION STREET AND SOUTH END OF GOUGAR ROAD UNDER SINGLE LANE OF FLAGGED TRAFFIC AS NOTED ON PLANS. LANE CLOSURES SHALL ONLY BE ALLOWED BETWEEN 9:00 A.M. AND 3:00 P.M. WORK INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL).

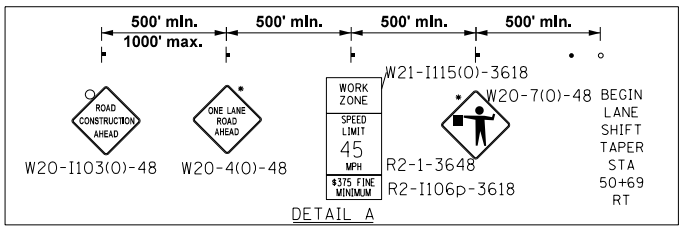
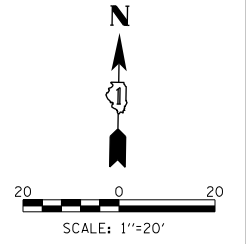
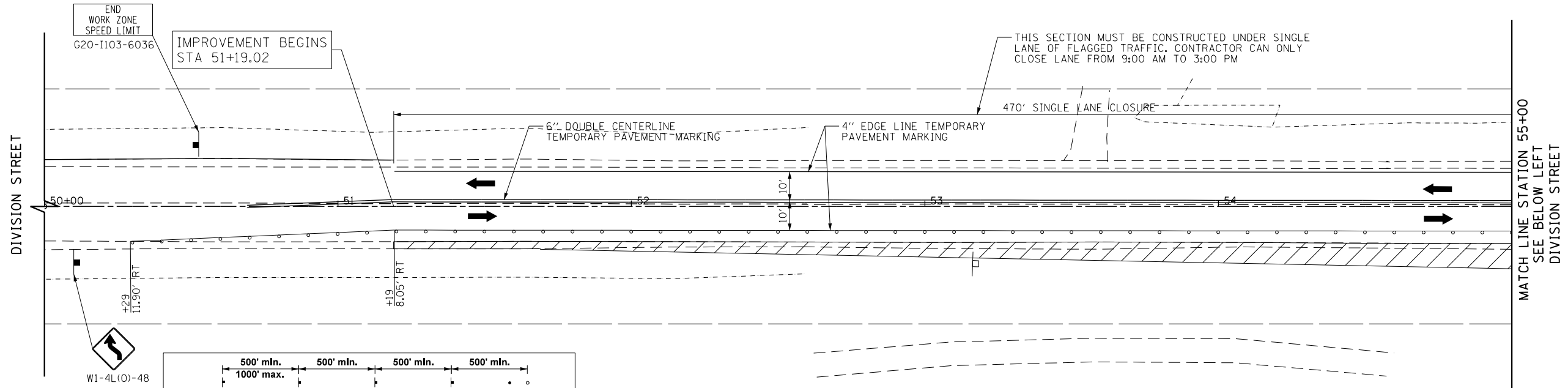
STAGE 3

1. MOVE TRAFFIC TO THE CENTER OF DIVISION STREET (EAST AND WEST LEGS) AND TO THE WEST SIDE OF GOUGAR ROAD (NORTH AND SOUTH LEGS).
2. ADJUST THE DRAINAGE STRUCTURE FRAME AND GRATES, POUR GAPS IN CURB & GUTTER, AND PAVE THE REMAINING 2-1/2" OF HMA BINDER COURSE ON NORTH AND SOUTH SIDES OF DIVISION STREET (EAST AND WEST LEGS). CONSTRUCT THE PROPOSED CURB & GUTTER AND PAVEMENT WIDENING ON THE EAST SIDE OF GOUGAR ROAD (NORTH LEG). PAVE 6" OF THE PROPOSED 8-1/2" BINDER COURSE IN TWO SEPARATE LIFTS. CONSTRUCT THE PROPOSED DITCHES, CULVERT EXTENSIONS, AND STORM SEWER SYSTEM. PROVIDE GAPS IN THE PROPOSED CURB & GUTTER AT THE DRAINAGE STRUCTURE LOCATIONS, AND TEMPORARILY ADJUST THE FRAME AND LIDS SO THE RIM ELEVATION MATCHES THE TOP OF THE 6" CONSTRUCTED HMA BINDER COURSE (4" BELOW FINAL GRADE).

STAGE 4

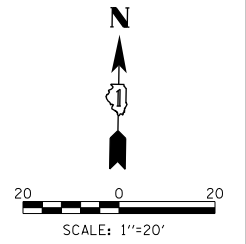
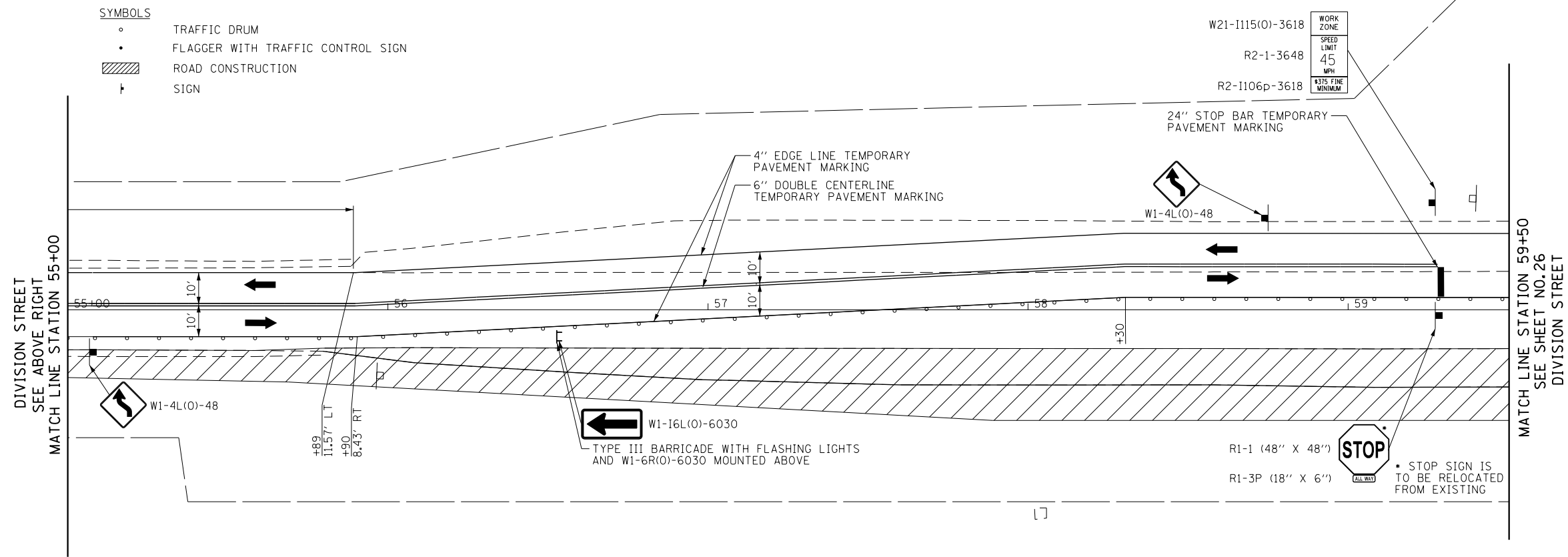
1. PAVE REMAINING 2-1/2" OF HMA BINDER COURSE ON GOUGAR ROAD.
2. PAVE HMA SURFACE COURSE THROUGHOUT PROJECT.
3. PROVIDE DAILY LANE CLOSURES AND FLAGGERS AS REQUIRED. WORK INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL)

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS MOT GENERAL NOTES AND TYPICAL SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL#		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	24	
	PLOT SCALE = 2.0000' / in.	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			SCALE:	SHEET NO. 24 OF 103 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

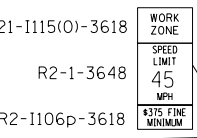


*SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING

- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - † SIGN

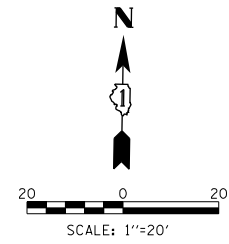
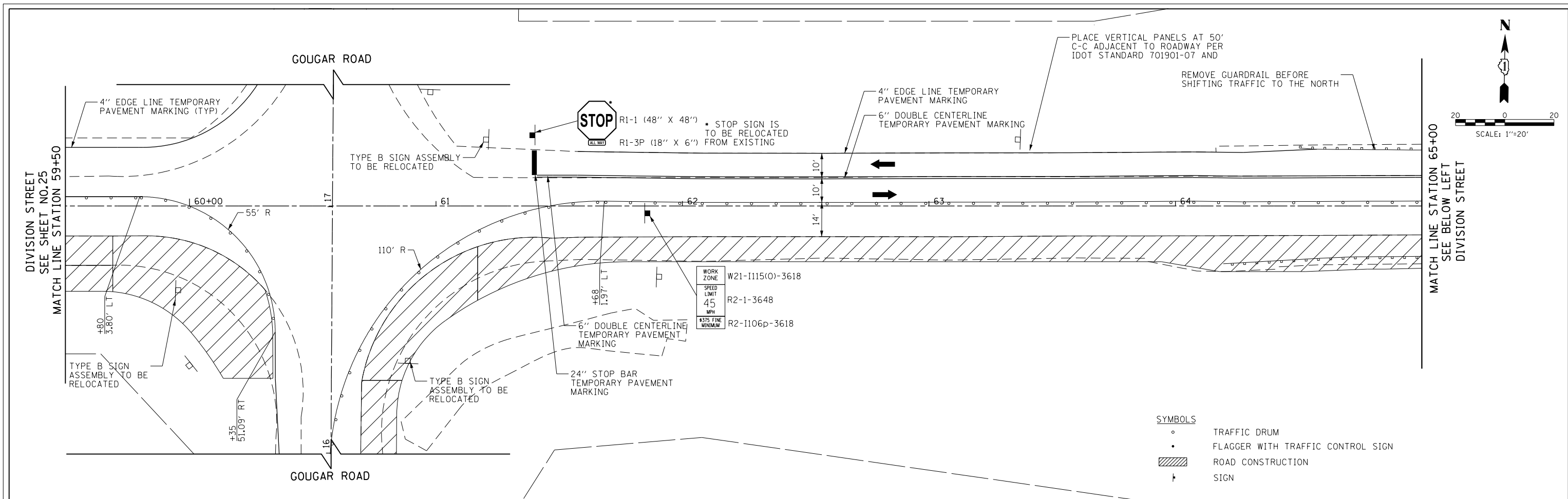


- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - † SIGN

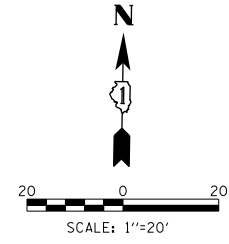
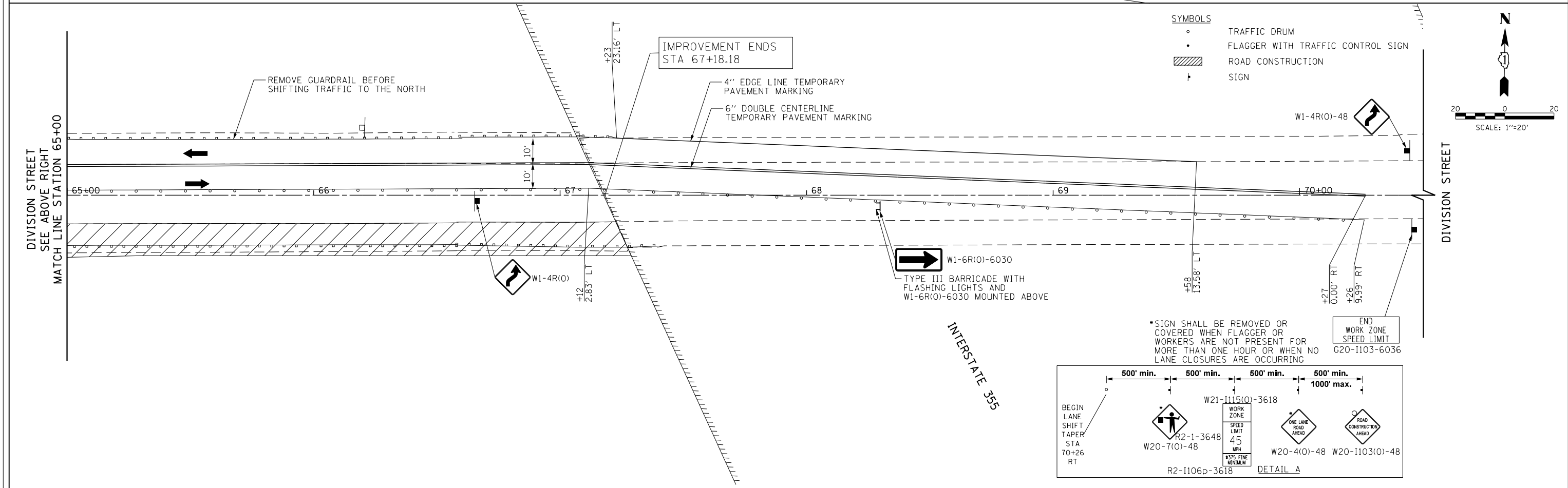


R1-1 (48" X 48") STOP
R1-3P (18" X 6") STOP
* STOP SIGN IS TO BE RELOCATED FROM EXISTING

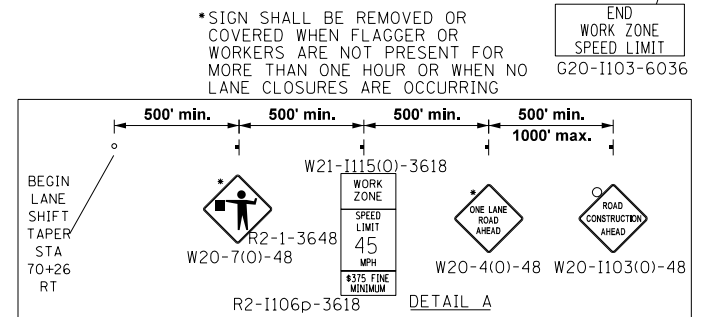
FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS MAINTENANCE OF TRAFFIC STAGE 1	F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	25	
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - † SIGN



- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - † SIGN



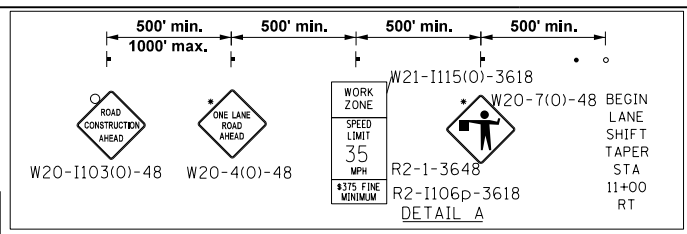
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

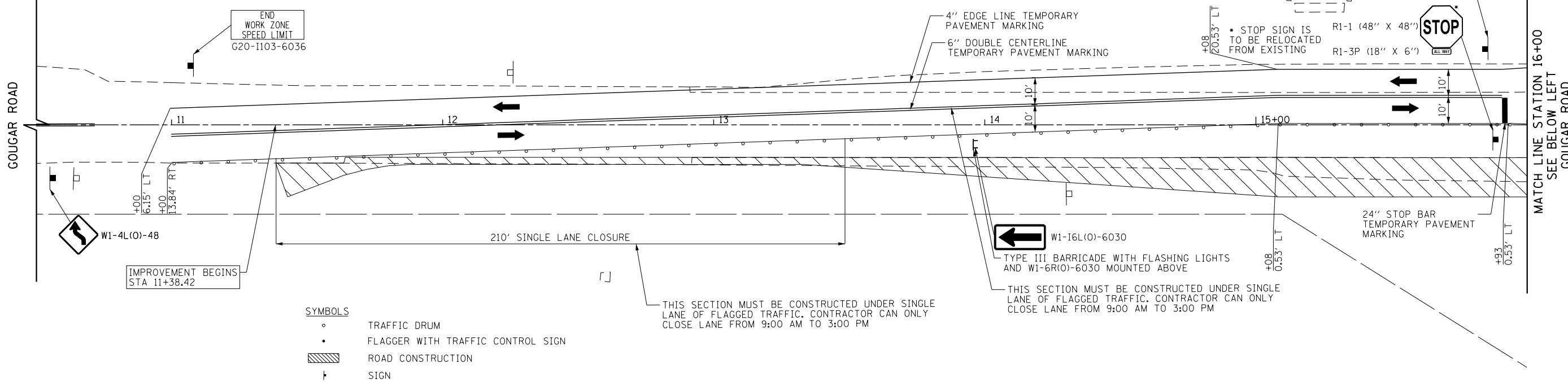
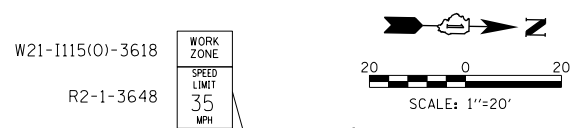
**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 1**

SCALE: 1"=20' SHEET NO. 26 OF 103 SHEETS STA. 59+50 TO STA. 70+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	26
CONTRACT NO. 61E47			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	



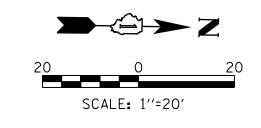
*SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING



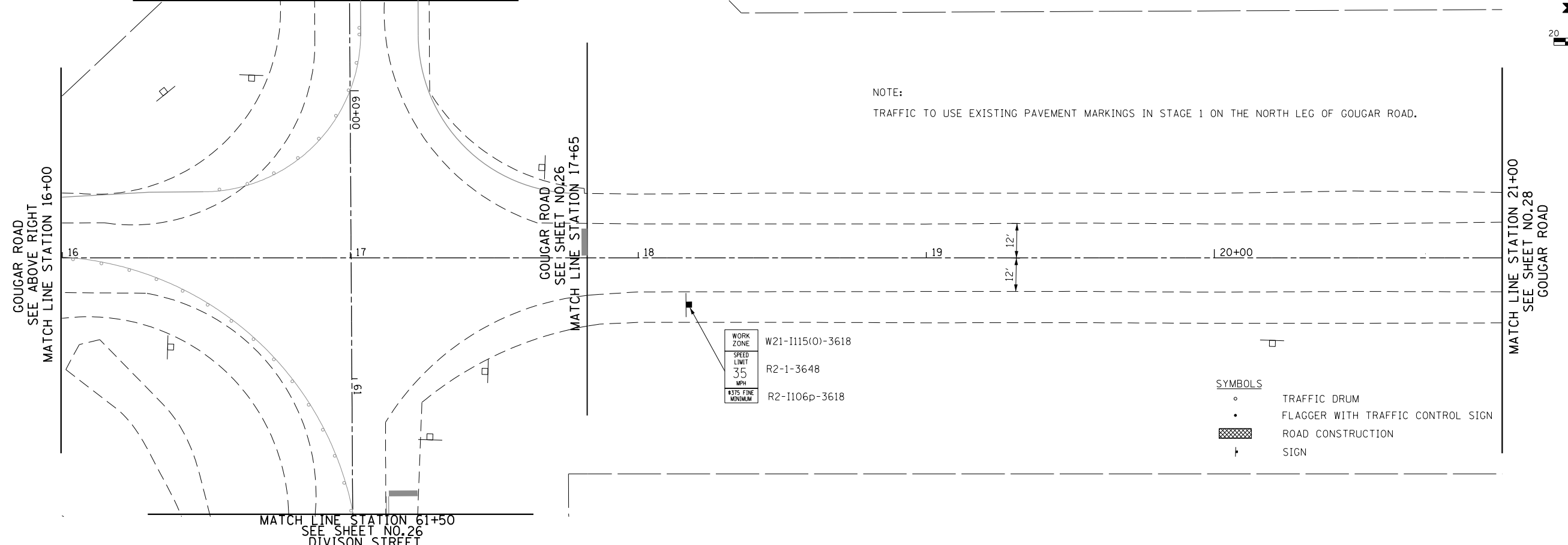
- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊣ SIGN

THIS SECTION MUST BE CONSTRUCTED UNDER SINGLE LANE OF FLAGGED TRAFFIC. CONTRACTOR CAN ONLY CLOSE LANE FROM 9:00 AM TO 3:00 PM

DIVISION STREET
SEE SHEET NO. 25
MATCH LINE STATION 59+50



NOTE:
TRAFFIC TO USE EXISTING PAVEMENT MARKINGS IN STAGE 1 ON THE NORTH LEG OF COUGAR ROAD.



- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊣ SIGN

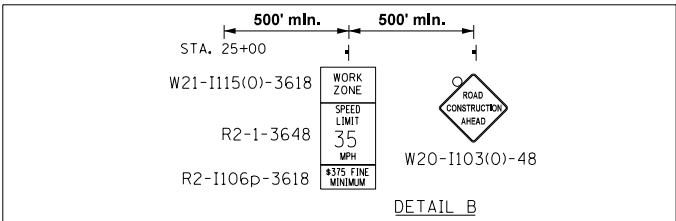
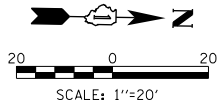
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

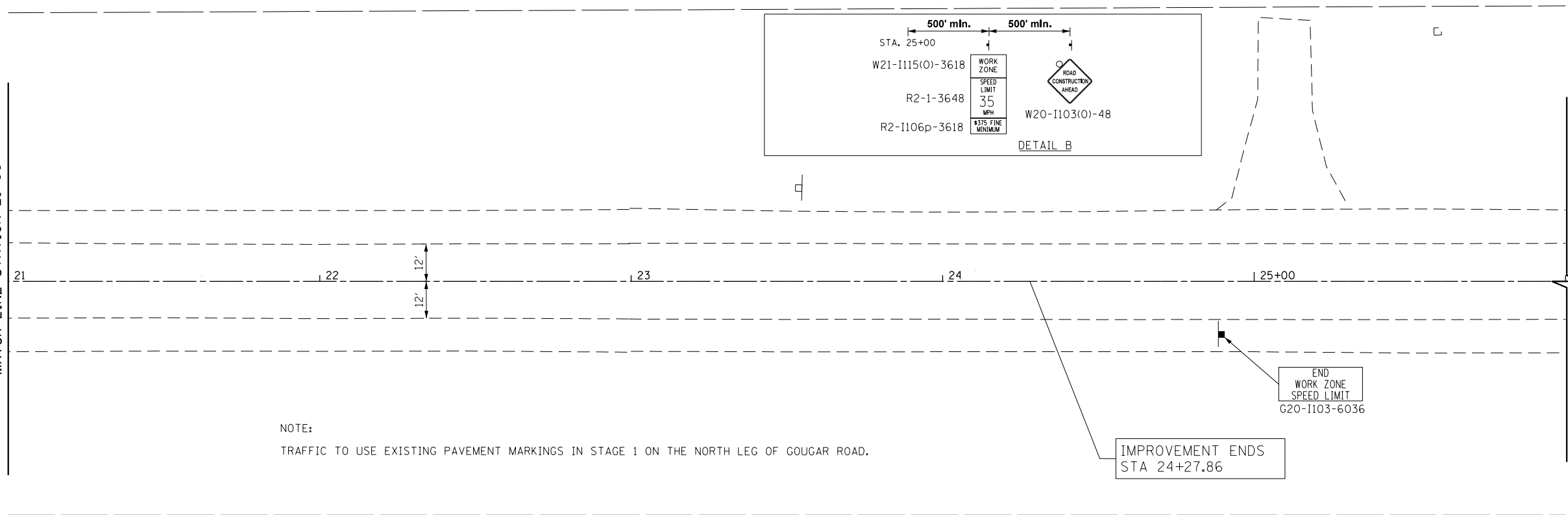
**W. 167TH ST/DIVISION ST AND S. COUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 1**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	27
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. 27 OF 103 SHEETS STA. 10+50 TO STA. 21+00



GOUGAR ROAD
SEE SHEET NO. 27
MATCH LINE STATION 21+00



NOTE:
TRAFFIC TO USE EXISTING PAVEMENT MARKINGS IN STAGE 1 ON THE NORTH LEG OF GOUGAR ROAD.

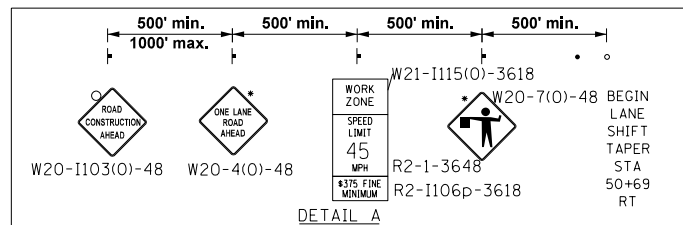
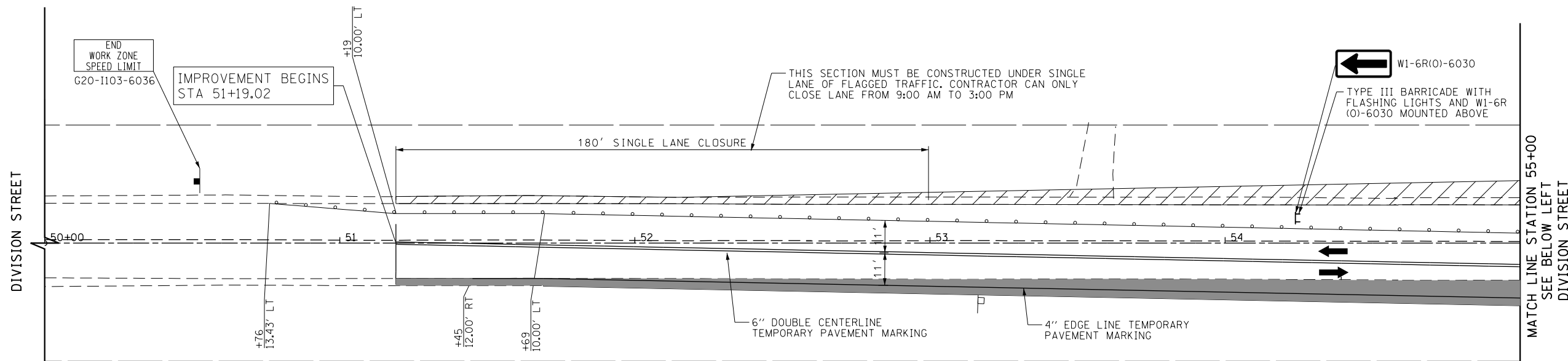
FILE NAME = *FILEL*	USER NAME = Mibeering	DESIGNED - NK	REVISED -
		DRAWN - NK	REVISED -
		CHECKED - DWB	REVISED -
		DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 1**

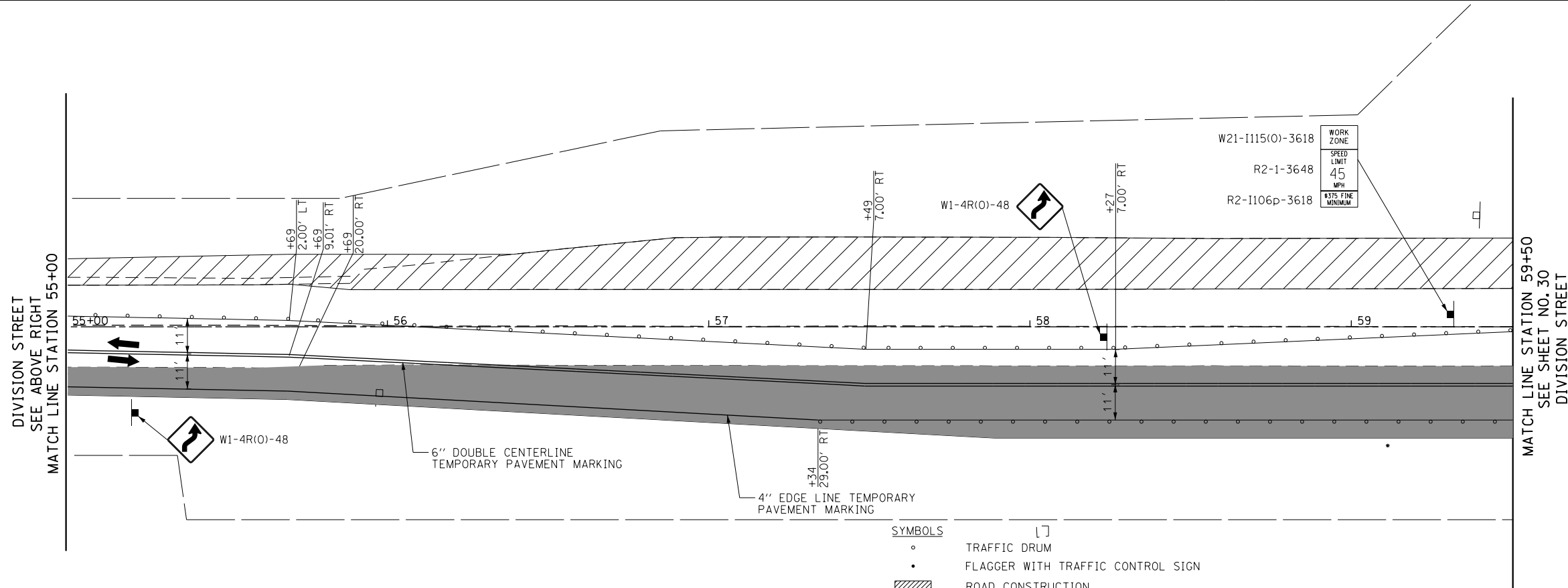
SCALE: 1"=20' SHEET NO. 28 OF 103 SHEETS STA. 21+00 TO STA. 26+00

F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 28
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E47	



*SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING

- SYMBOLS
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊥ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES



- SYMBOLS
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊥ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

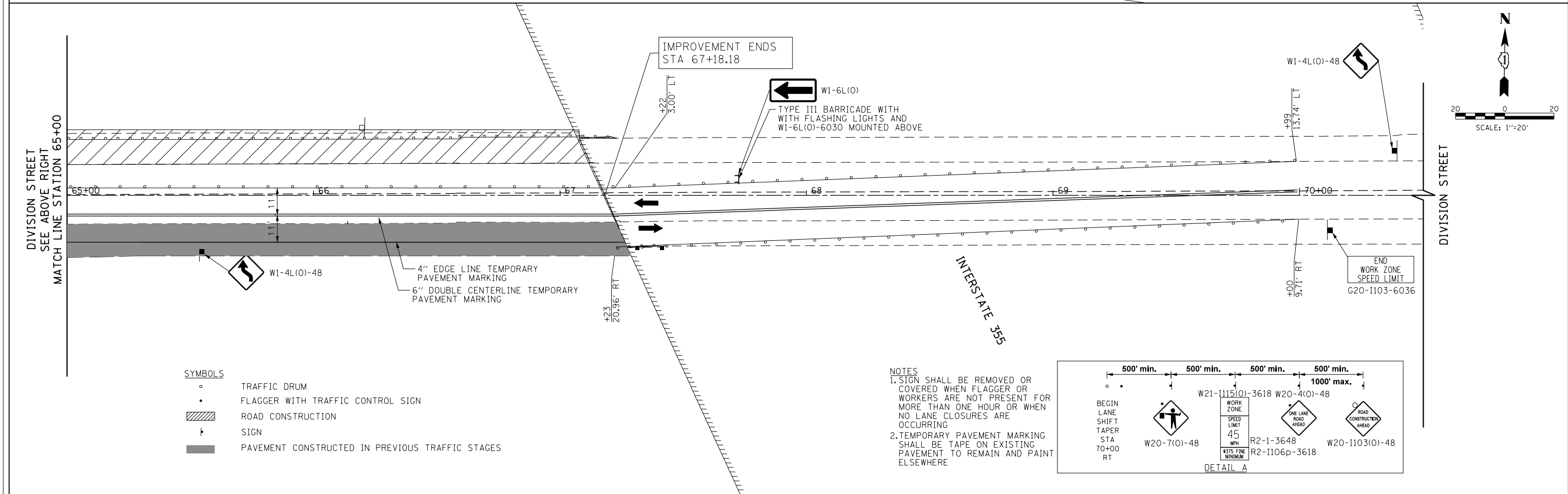
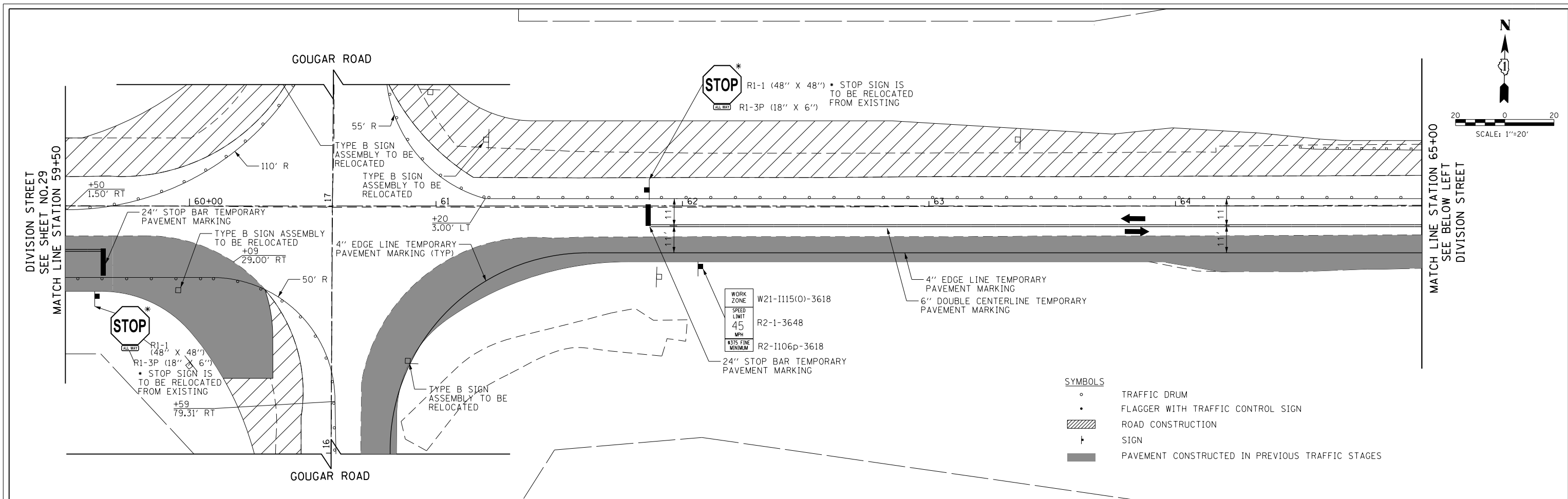
FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 2

SCALE: 1"=20' SHEET NO. 29 OF 103 SHEETS STA. 50+00 TO STA. 59+50

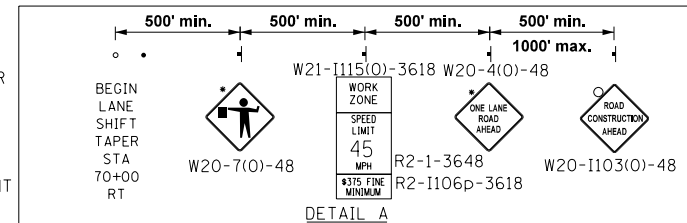
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	29
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



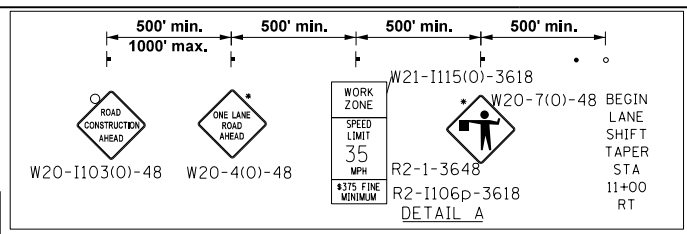
- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊣ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

NOTES

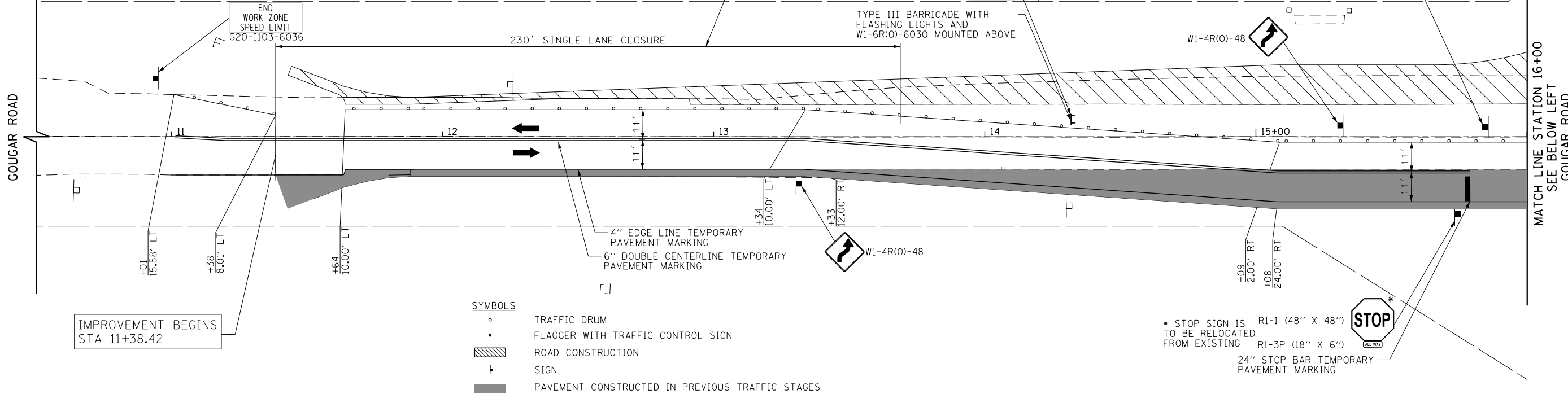
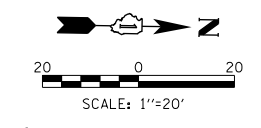
- SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING
- TEMPORARY PAVEMENT MARKING SHALL BE TAPE ON EXISTING PAVEMENT TO REMAIN AND PAINT ELSEWHERE



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS MAINTENANCE OF TRAFFIC STAGE 2	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	30	
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



*SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING



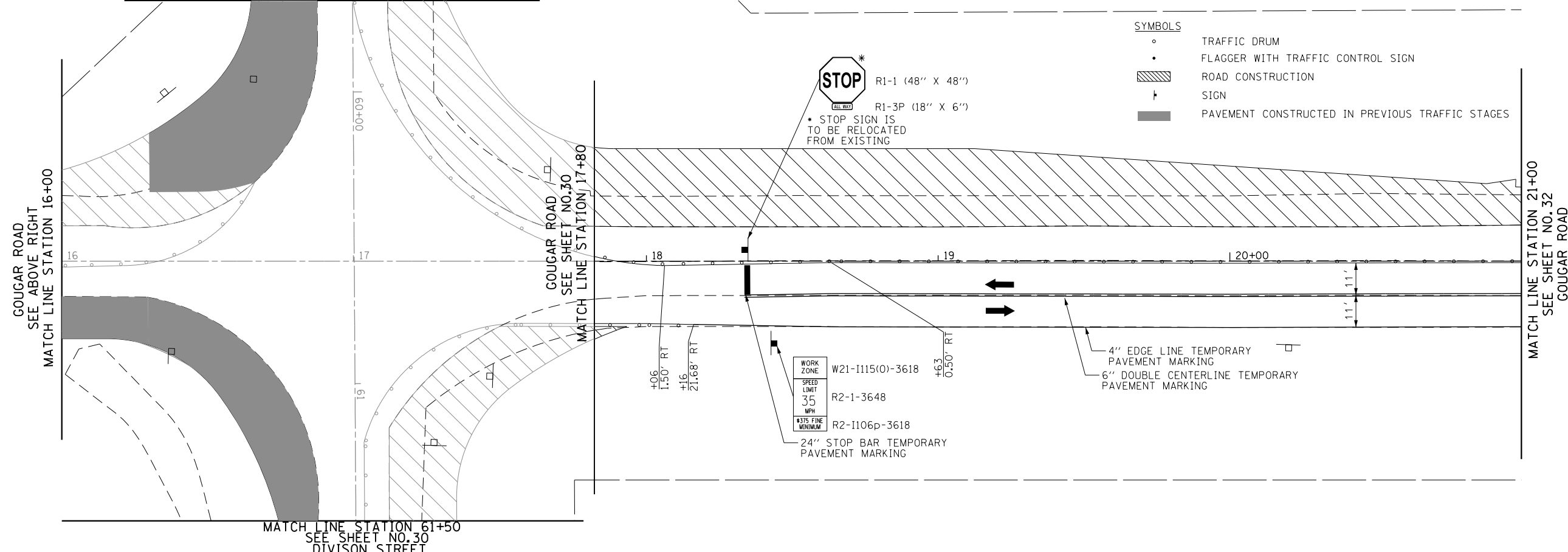
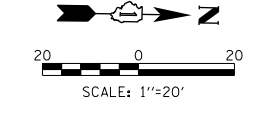
IMPROVEMENT BEGINS STA 11+38.42

- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊥ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

* STOP SIGN IS TO BE RELOCATED FROM EXISTING R1-3P (18" X 6") TO BE RELOCATED FROM EXISTING R1-1 (48" X 48")

DIVISON STREET SEE SHEET NO. 29
MATCH LINE STATION 59+50

- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊥ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES



* STOP SIGN IS TO BE RELOCATED FROM EXISTING R1-3P (18" X 6") TO BE RELOCATED FROM EXISTING R1-1 (48" X 48")

MATCH LINE STATION 61+50
DIVISON STREET SEE SHEET NO. 30

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
*FILEL#		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

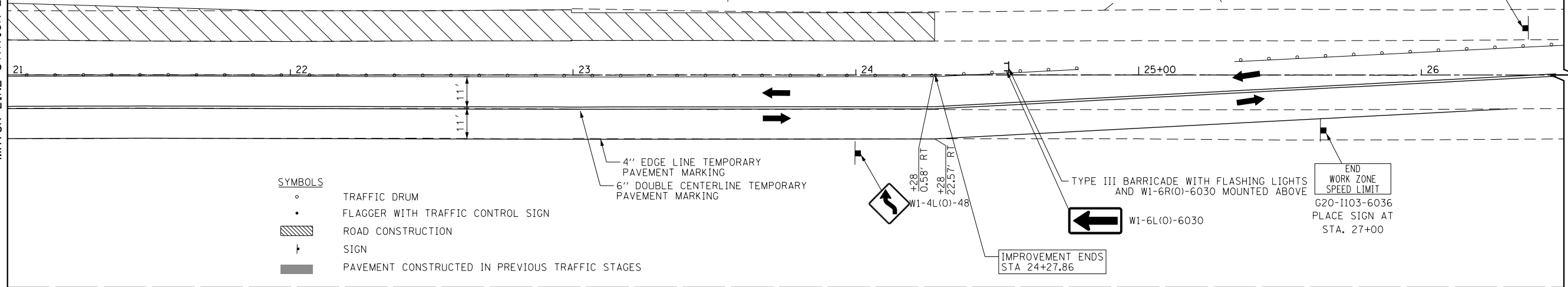
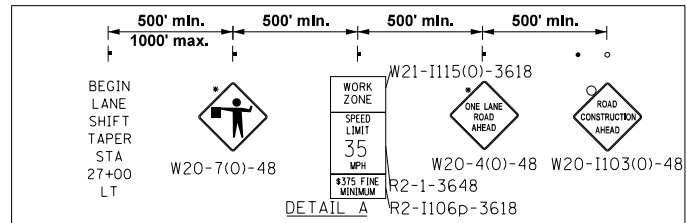
**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 2**

SCALE: 1"=20' SHEET NO. 31 OF 103 SHEETS STA. 10+50 TO STA. 21+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	31
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

GOUGAR ROAD
SEE SHEET NO. 31
MATCH LINE STATION 21+00

*SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING



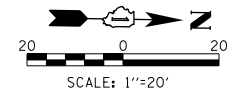
- SYMBOLS
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊥ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

4" EDGE LINE TEMPORARY PAVEMENT MARKING
6" DOUBLE CENTERLINE TEMPORARY PAVEMENT MARKING

TYPE III BARRICADE WITH FLASHING LIGHTS AND W1-6R(0)-6030 MOUNTED ABOVE

END WORK ZONE SPEED LIMIT
G20-1103-6036
PLACE SIGN AT STA. 27+00

IMPROVEMENT ENDS
STA 24+27.86



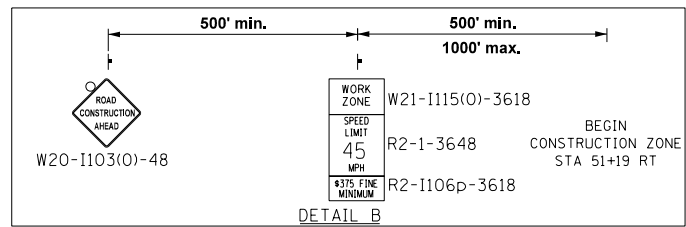
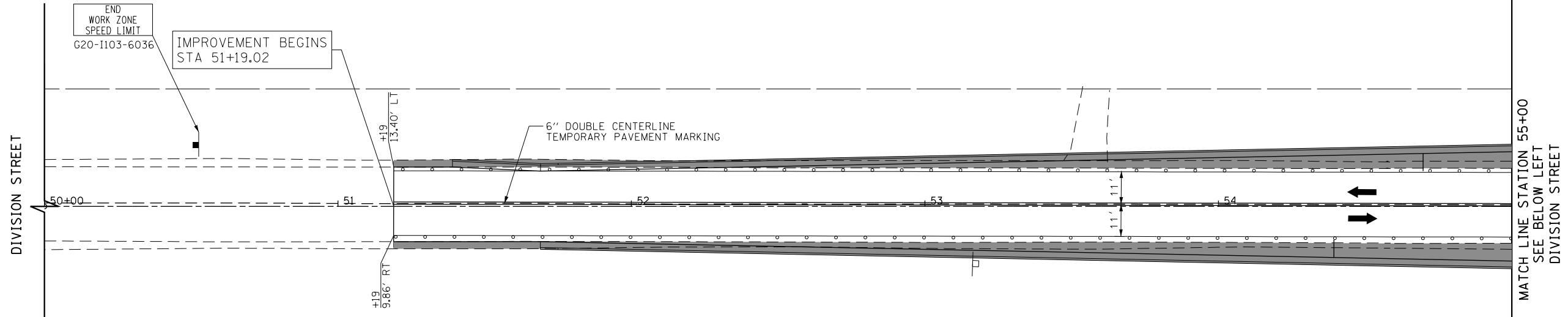
FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

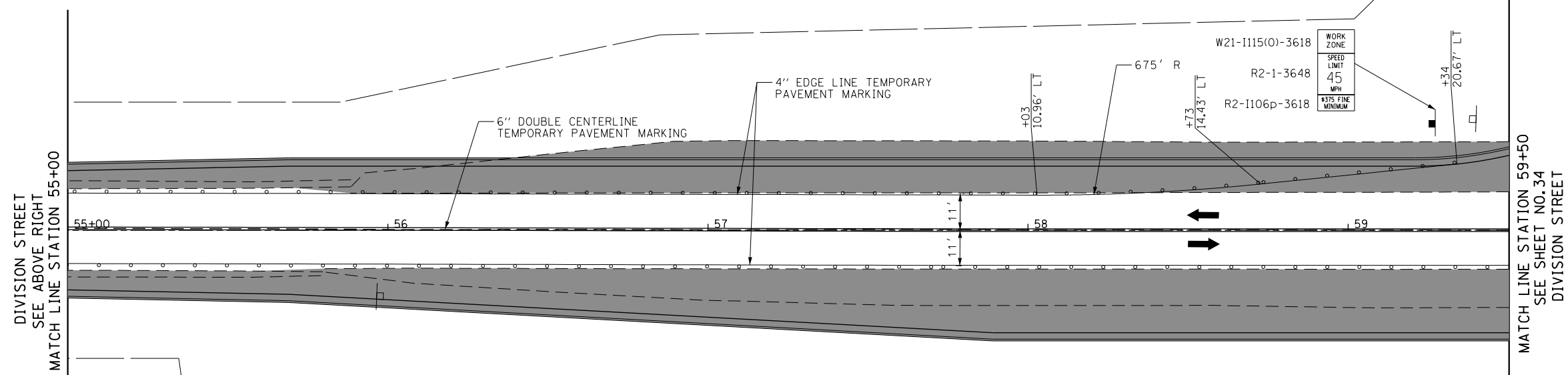
**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 2**

SCALE: 1"=20' SHEET NO. 32 OF 103 SHEETS STA. 21+00 TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	32
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊣ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES



- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊣ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

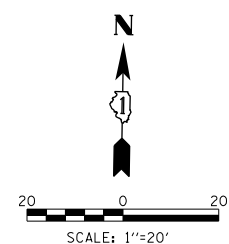
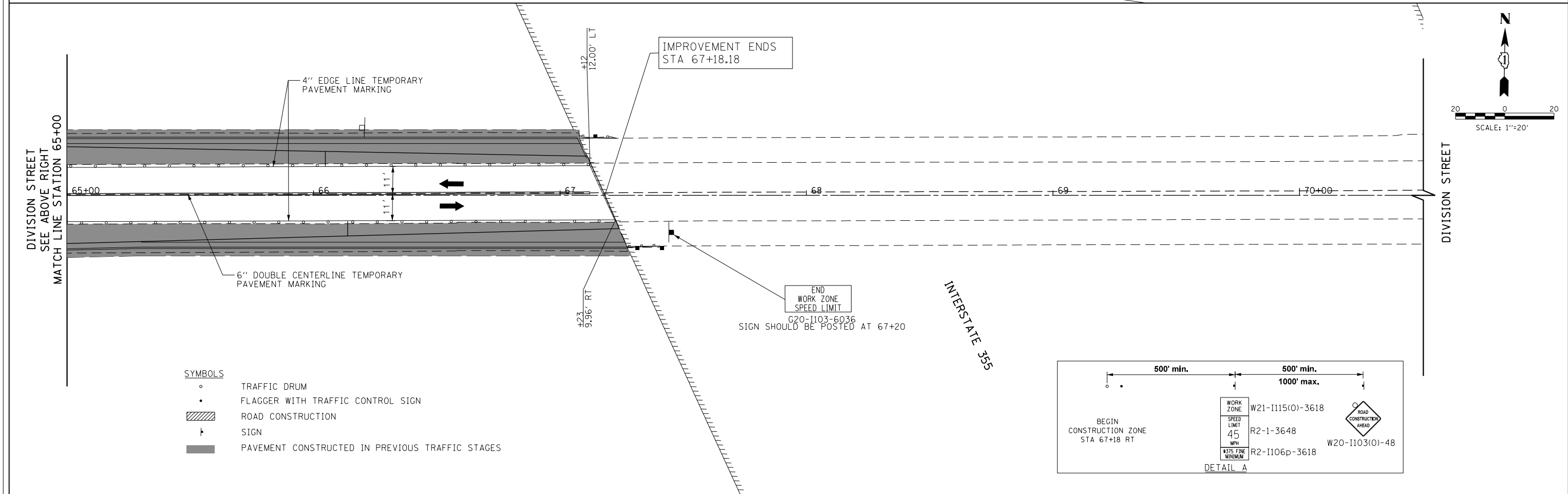
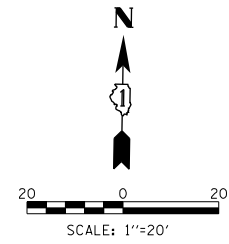
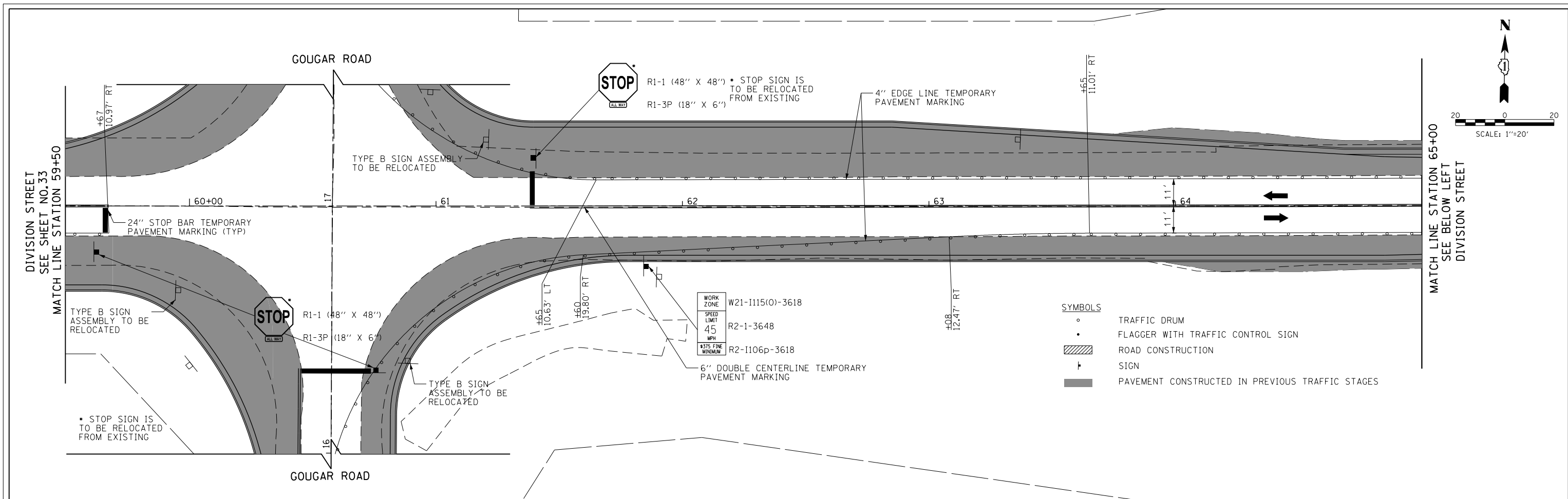
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

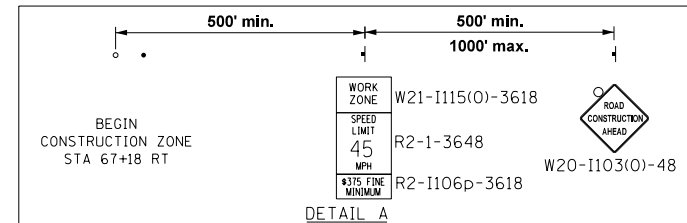
**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 3**

SCALE: 1"=20' SHEET NO. 33 OF 103 SHEETS STA. 50+00 TO STA. 59+50

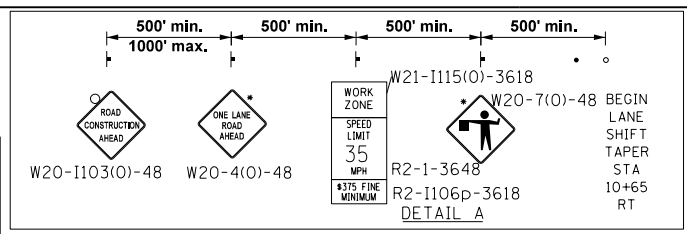
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	33
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



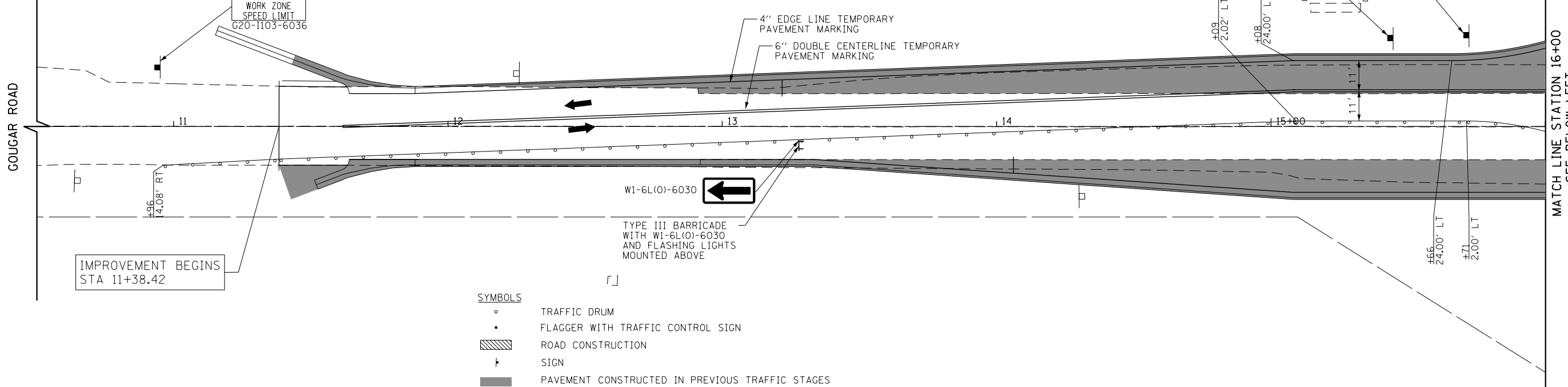
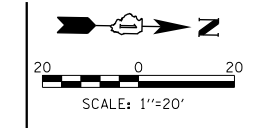
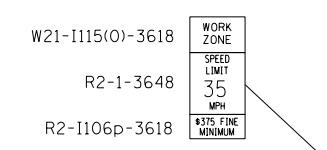
- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - † SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES



FILE NAME = *FILEL\$	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS MAINTENANCE OF TRAFFIC STAGE 3	F.A.U. RTE. = 291/367	SECTION = 14-00081-00-CH	COUNTY = WILL	TOTAL SHEETS = 103	SHEET NO. = 34		
PLOT SCALE = 40.0000' / in.		CHECKED - DWB	REVISED -			SCALE: 1"=20'	SHEET NO. 34 OF 103 SHEETS	STA. 59+50	TO STA. 70+50	CONTRACT NO. 61E47		
PLOT DATE = 2/6/2018		DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT						

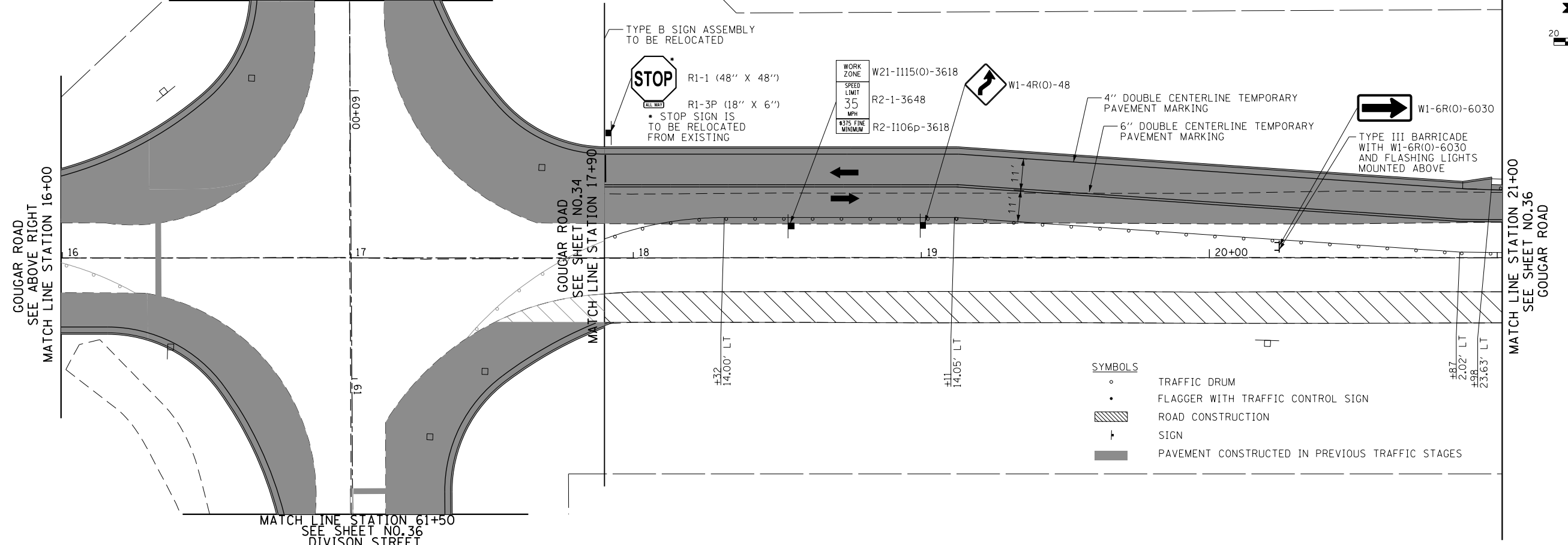
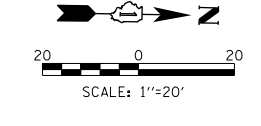


*SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING



- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊥ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

DIVISION STREET
SEE SHEET NO. 35
MATCH LINE STATION 59+50



- SYMBOLS**
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - ⊥ SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

MATCH LINE STATION 61+50
SEE SHEET NO. 36
DIVISION STREET

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
*FILEL\$		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

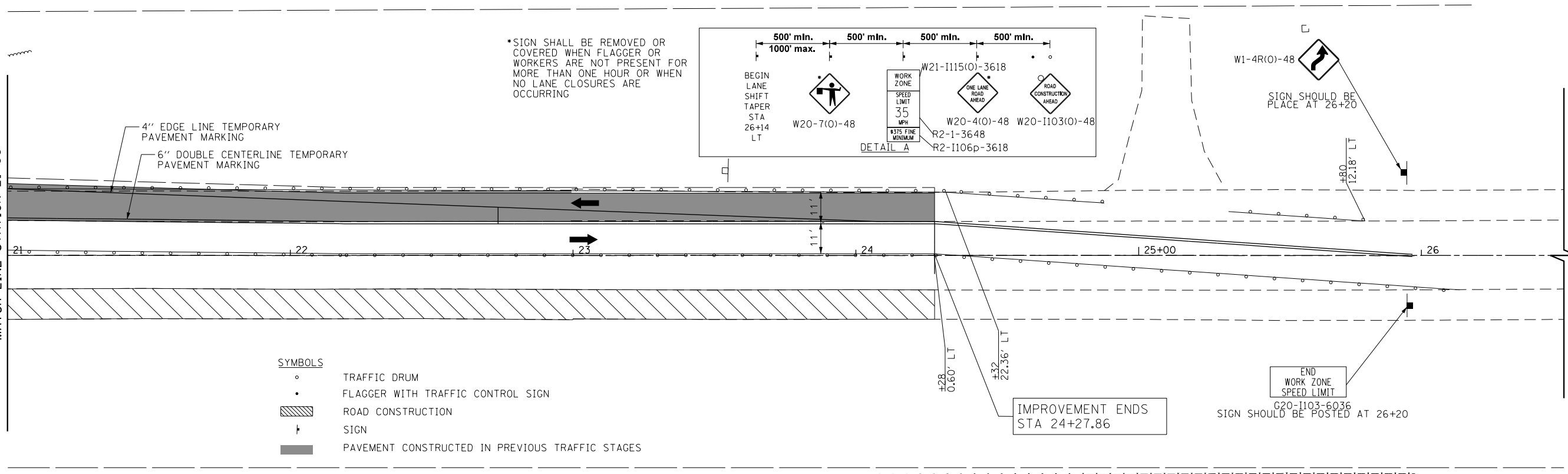
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 3**

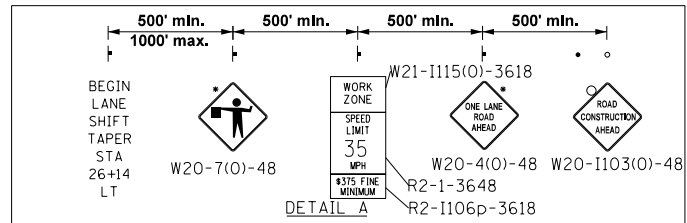
SCALE: 1"=20' SHEET NO. 35 OF 103 SHEETS STA. 10+50 TO STA. 21+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	35
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

GOUGAR ROAD
SEE SHEET NO. 35
MATCH LINE STATION 21+00



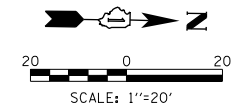
*SIGN SHALL BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR OR WHEN NO LANE CLOSURES ARE OCCURRING



- SYMBOLS
- TRAFFIC DRUM
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - ▨ ROAD CONSTRUCTION
 - † SIGN
 - PAVEMENT CONSTRUCTED IN PREVIOUS TRAFFIC STAGES

IMPROVEMENT ENDS
STA 24+27.86

END WORK ZONE
SPEED LIMIT
G20-1103-6036
SIGN SHOULD BE POSTED AT 26+20



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
*FILEL\$		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
MAINTENANCE OF TRAFFIC STAGE 3**

SCALE: 1"=20' SHEET NO. 36 OF 103 SHEETS STA. 21+00 TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	36
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

EROSION AND SEDIMENTATION CONTROL NOTES

ALL CONSTRUCTION ACTIVITIES AND WATER QUALITY STANDARDS SHALL BE IN ACCORDANCE WITH THE IEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), IEPA SECTION 401 WATER QUALITY CONDITIONS, SOIL AND WATER CONSERVATION DISTRICT (SWCD), SECTION 280 AND 282 OF THE STANDARD SPECIFICATIONS, IDOT CONSTRUCTION MEMORANDUM NO. 06-60, AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SEE IEPA SECTION 401 WATER QUALITY CONDITIONS AND SWPPP IN THE SPECIAL PROVISIONS.

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF LOCKPORT FOR REVIEW BY THE WILL-SOUTH COOK SWCD.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE WILL-SOUTH COOK SWCD.

SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

THE WILL-SOUTH COOK SWCD MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO FINAL INSPECTION.

CONSTRUCTION LIMITS SHALL BE MINIMIZED TO KEEP SOIL DISTURBANCE TO A MINIMUM LEAVING AS MUCH EXISTING VEGETATION IN PLACE AS POSSIBLE. DIVERT "CLEAR" WATER FLOWING THROUGH THE CONSTRUCTION SITE AWAY FROM DISTURBED AREAS. INTERCEPT AND CONTAIN SEDIMENT CLOSE TO ITS SOURCE. ALL PROJECT-RELATED SEDIMENT SHALL BE RETAINED ON THE PROJECT SITE. NO RUNOFF FLOW FROM DISTURBED AREAS SHALL LEAVE THE SITE WITHOUT BEING TREATED.

ALL DISTURBED AREAS, EXISTING EROSION CONTROL MEASURES, VEHICLE ACCESS SITES AND ALL OTHER AREAS SUBJECT TO EROSION SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF THE END OF EACH ONE-HALF INCH OR GREATER RAINFALL OR EQUIVALENT SNOWFALL.

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.

THE CONTRACTOR SHALL COMPLETE PERMANENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL AFTER THE COMPLETION OF GRADING. TEMPORARY MEASURES SHALL BE INSTALLED AND MAINTAINED UNTIL PERMANENT MEASURES ARE ESTABLISHED.

A QUANTITY OF TEMPORARY EROSION CONTROL SEEDING HAS BEEN PROVIDED TO REDUCE EROSION OF ALL EXPOSED EARTH SLOPES THAT ARE NOT READY FOR PERMANENT STABILIZATION, AREAS THAT REMAIN DENUDED FOR MORE THAN 14 DAYS, AREAS THAT WILL BE RE-DISTURBED, AND STOCKPILES. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDDED.

ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.

PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.

IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).

DUST SHALL BE CONTROLLED IN ACCORDANCE WITH ARTICLE 107.36 OF THE STANDARD SPECIFICATIONS.

IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED. STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES, ISOLATED WATERS OF WILL COUNTY.

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN A WORKING CONDITION.

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT, AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTIONS.

CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY WITHIN THE PROJECT LIMITS AT LOCATIONS AS DESIGNATED BY THE ENGINEER. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OF OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

THE CONTRACTOR SHALL PROVIDE WATER-TIGHT TANKS OR BARRELS, OR CONSTRUCT A SUMP SEALED WITH PLASTIC SHEETS TO BE USED TO DISPOSE OF CHEMICAL POLLUTANTS, SUCH AS DRAINED LUBRICATING OR TRANSMISSION FLUIDS, GREASE, SOAPS, CONCRETE MIXER WASH WATER, ASPHALT, ETC., PRODUCED AS A BY-PRODUCT OF THE CONSTRUCTION ACTIVITIES. AT THE COMPLETION OF THE CONSTRUCTION WORK, SUMPS SHALL BE REMOVED AND THE AREA RESTORED TO ITS ORIGINAL CONDITION AS SPECIFIED IN SECTION 8 OF THE ILLINOIS URBAN MANUAL. SUMP REMOVAL SHALL BE CONDUCTED WITHOUT CAUSING POLLUTION. THIS WORK SHALL BE INCLUDED IN THE COST OF EROSION CONTROL PAY ITEMS.

SANITARY FACILITIES SUCH AS CHEMICAL TOILETS OR SEPTIC TANKS SHALL NOT BE LOCATED ADJACENT TO LIVE STREAMS, WELLS, OR SPRINGS. THEY SHALL BE LOCATED AT A DISTANCE SUFFICIENT TO PREVENT CONTAMINATION OF ANY WATER SOURCE. AT THE COMPLETION OF CONSTRUCTION ACTIVITIES, FACILITIES SHALL BE DISPOSED OF WITHOUT CAUSING POLLUTION AS SPECIFIED IN SECTION 8 OF THE ILLINOIS URBAN MANUAL.

ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

ALL HEAVY EQUIPMENT SHALL BE POWER-WASHED TO REMOVE ANY INVASIVE SEED PRESENT ON EQUIPMENT PRIOR TO ENTERING THE CONSTRUCTION SITE.

THE EXCAVATED MATERIAL BEING TRANSPORTED OFF SITE, SPECIFICALLY FROM THE WATERWAYS, SHALL BE PREVENTED FROM LEAKING OR SPILLING ONTO THE ROADWAYS BY DRYING THE MATERIAL BEFORE TRANSPORT, PROVIDING A LINER FOR THE TRUCKS, OR OTHER APPROVED METHOD.

EROSION AND SEDIMENTATION CONTROL SEQUENCES

I. THE FOLLOWING EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO CLEARING

SILT FENCES

ERECT ALL SILT FENCES AS SHOWN ON THE EROSION CONTROL PLANS TO CONTROL SEDIMENT FROM THE RUNOFF LEAVING THE DISTURBED AREAS.

TREE PROTECTION

INSTALL TEMPORARY FENCE TO PROTECT THE TREES SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.

II. THE FOLLOWING EROSION CONTROL MEASURE IS TO TAKE PLACE PRIOR TO GRADING

TEMPORARY DITCH CHECK

INSTALL TEMPORARY AND PERMANENT DITCH CHECKS IN EXISTING DITCHES TO CONTROL RUNOFF VELOCITY AS SHOWN ON THE EROSION CONTROL PLAN OR AS DIRECTED BY ENGINEER.

III. WITHIN 7 DAYS OF THE COMPLETION OF CLEARING OR GRADING OR WITHIN 14 DAYS OF LAST DISTURBANCE, THE FOLLOWING MEASURES SHALL BE ENFORCED.

TEMPORARY STABILIZATION

PROVIDE TEMPORARY STABILIZATION OVER AREAS THAT CANNOT BE STABILIZED WITH PERMANENT VEGETATIVE MEASURES FOR 14 DAYS OR MORE AND CONSEQUENTLY REQUIRE TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. THESE AREAS SHALL BE TREATED WITH PERMANENT VEGETATIVE COVER AT SOME FUTURE DATE.

PERMANENT EROSION CONTROL

PROVIDE PERMANENT VEGETATION AND INSTALL ALL THE PERMANENT EROSION CONTROL MEASURES AS SHOWN ON THE PLANS OR DIRECTED BY ENGINEER, BEFORE REMOVAL OF THE TEMPORARY EROSION CONTROL MEASURES.

IV. THE FOLLOWING EROSION CONTROL MEASURE SHALL BE PERFORMED AFTER PROPOSED PRIOR TO TOPSOIL STRIPPING AND GRADING

INLET FILTER PROTECTION

INLET PROTECTION SHALL BE PROVIDED TO ALL PROPOSED INLETS OR CATCH BASINS LOCATED IN ALL AREAS AS SHOWN ON EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

V. THE FOLLOWING MEASURES SHALL BE PROVIDED DURING THE CONTRACT ON AN AS NEEDED BASIS.

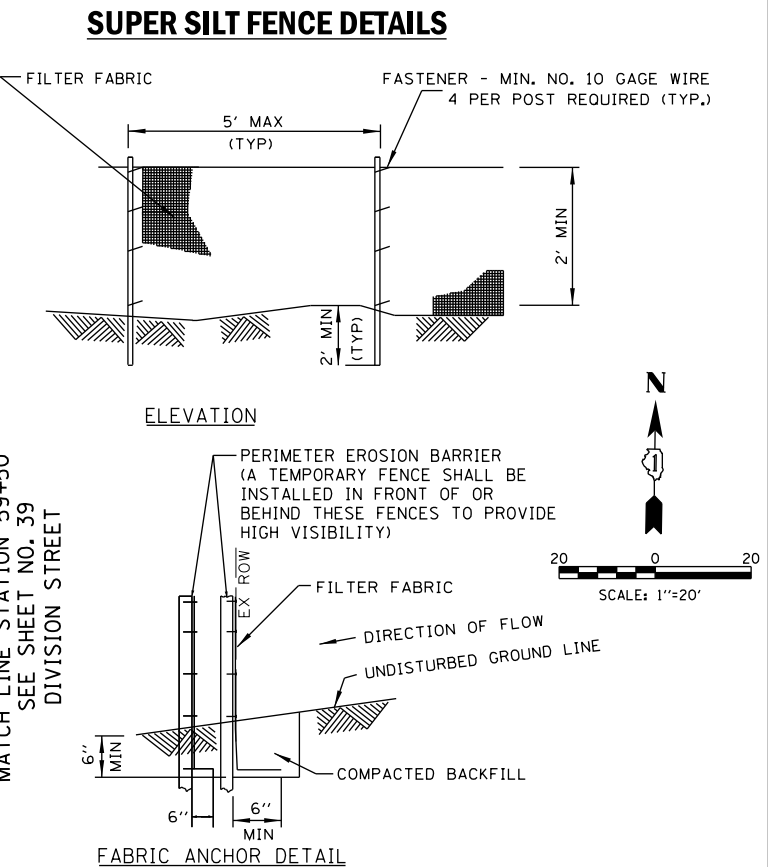
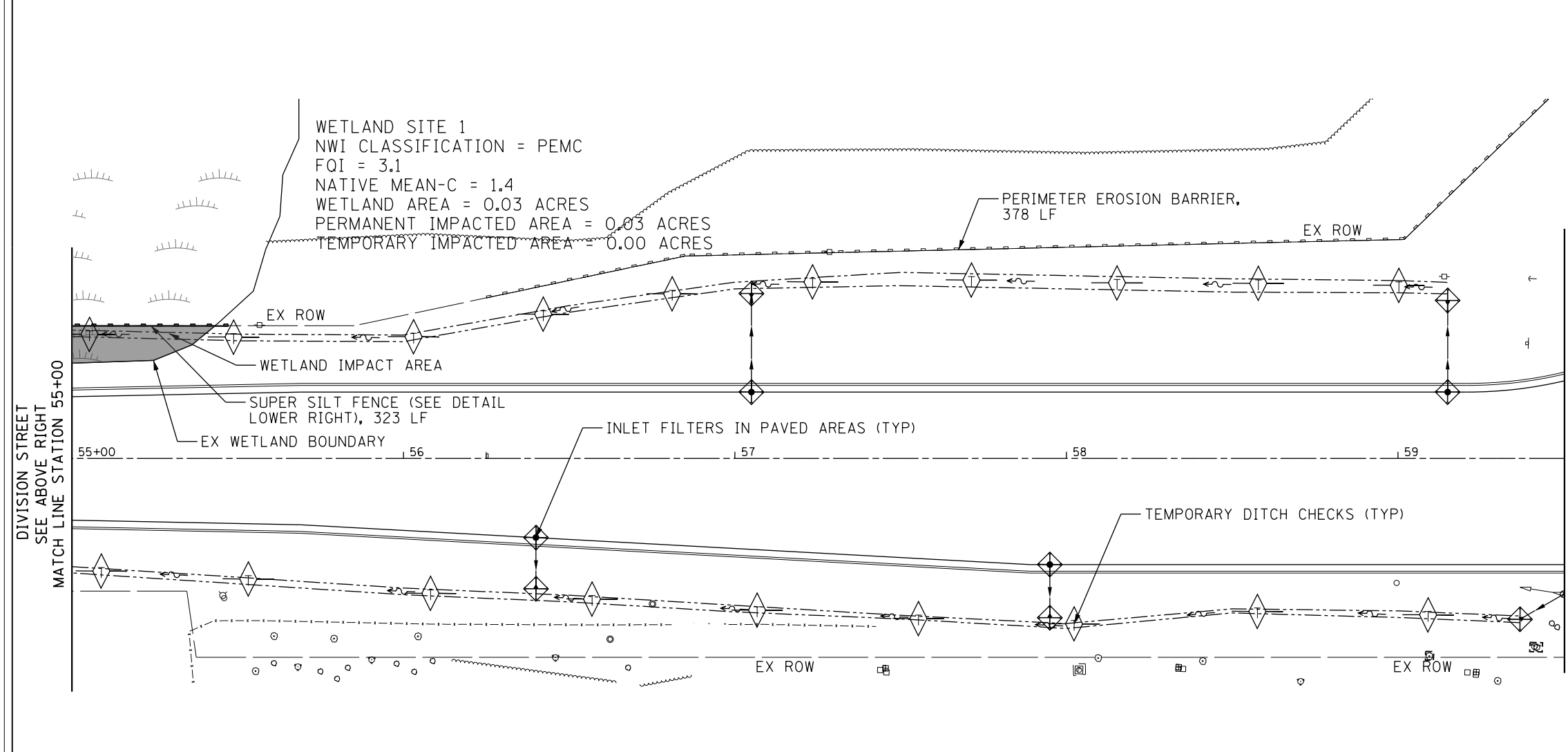
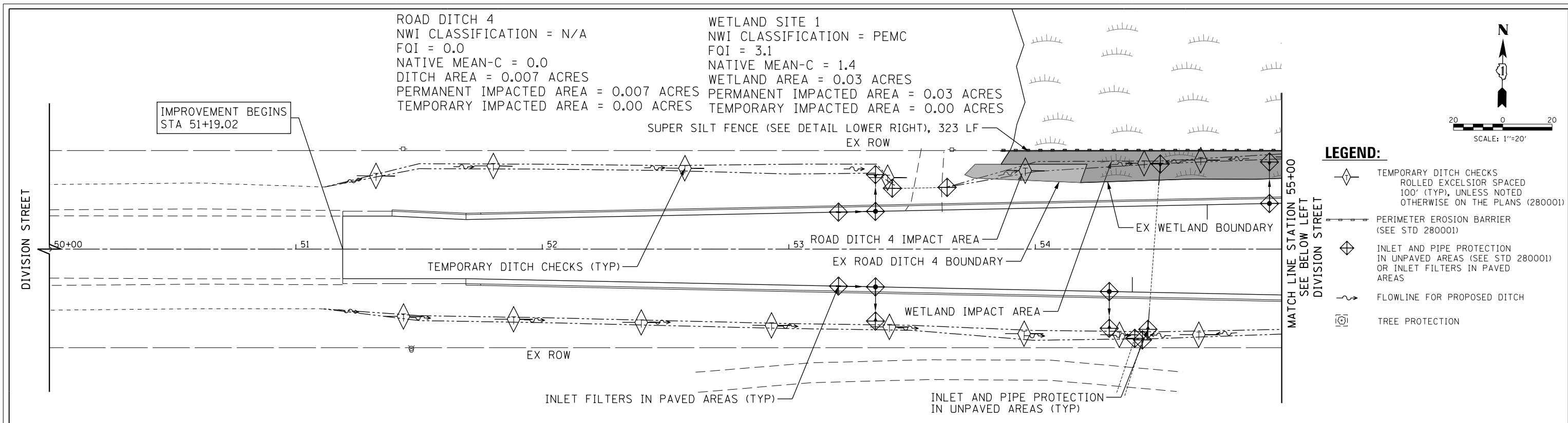
DUST CONTROL WATERING

DUST CONTROL WATERING SHALL BE APPLIED TO CONTROL THE DUST RESULTING FROM THE CONSTRUCTION OPERATION.

STREET CLEANING AND SWEEPING

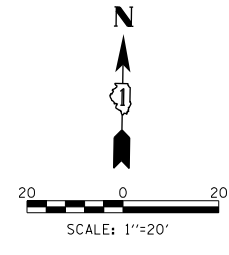
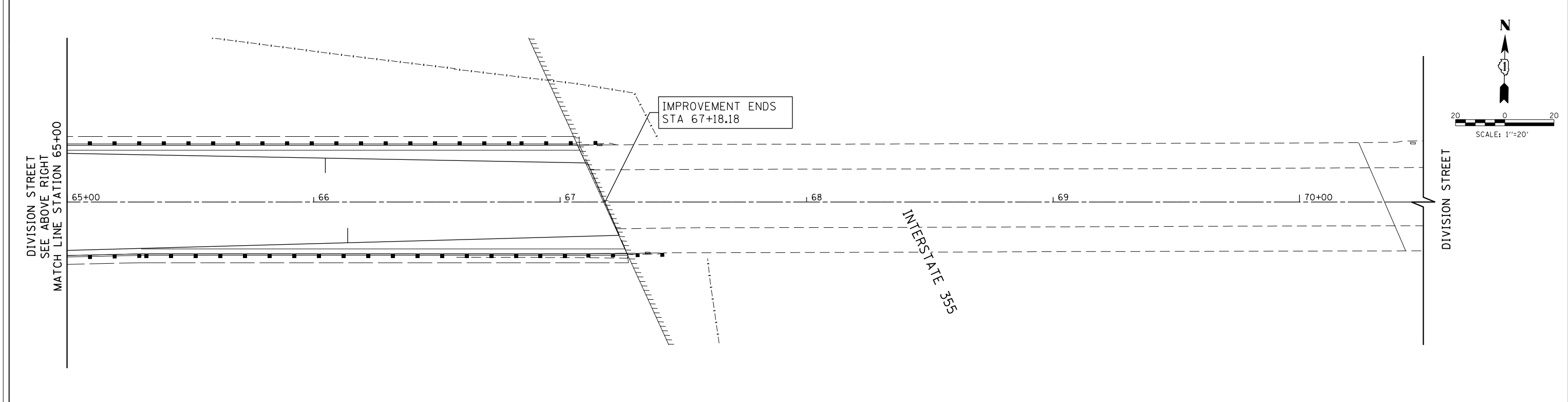
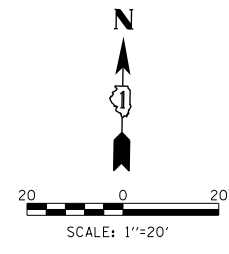
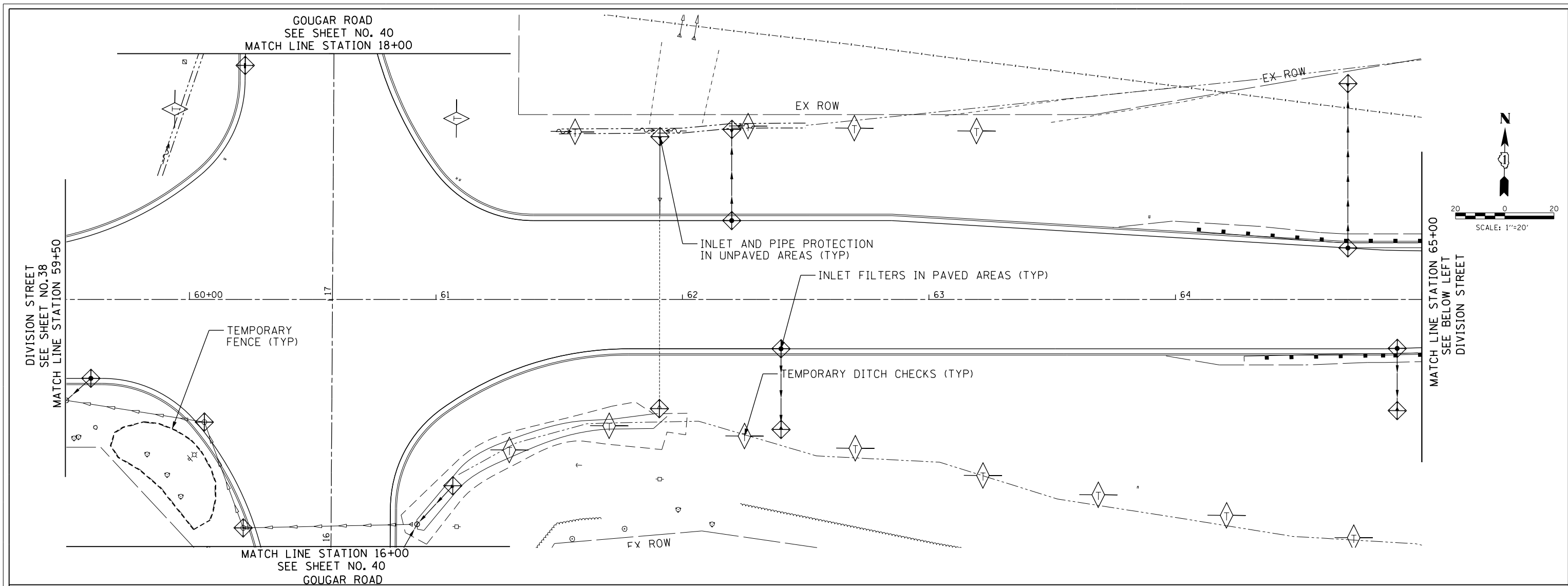
STREET CLEANING AND SWEEPING SHALL BE PERFORMED ON EACH WORKDAY, AS REQUIRED AND DIRECTED AND APPROVED BY THE ENGINEER. COST FOR THIS WORK WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS EROSION AND SEDIMENT CONTROL NOTES	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	37	
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			SCALE: NTS	SHEET NO. 37 OF 103 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

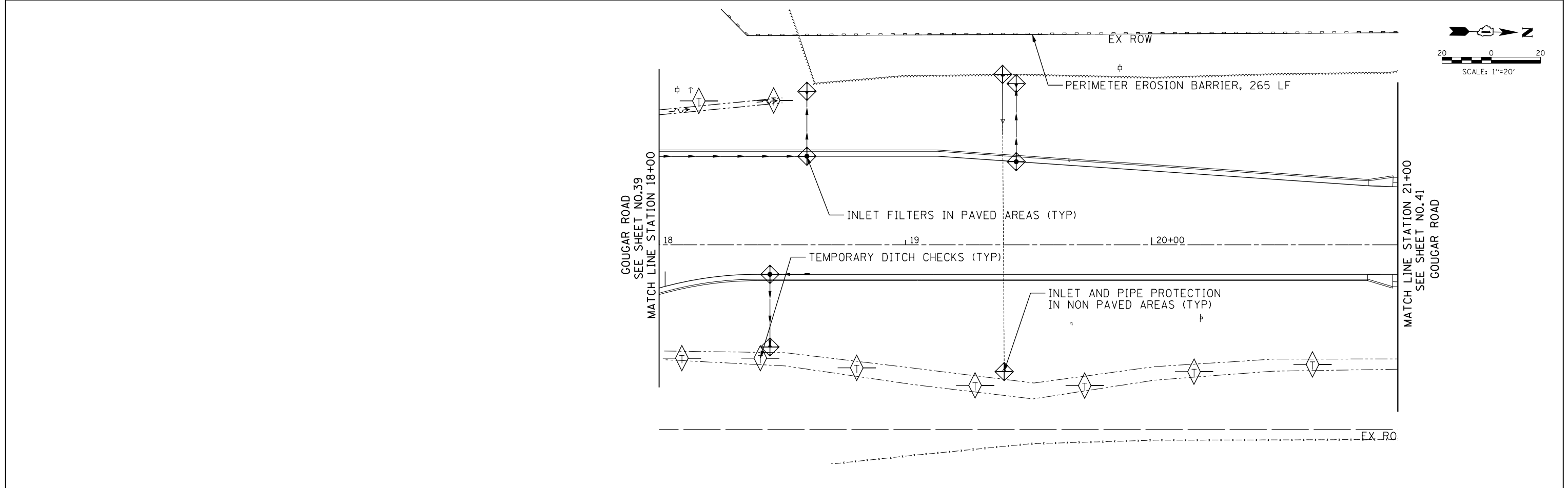
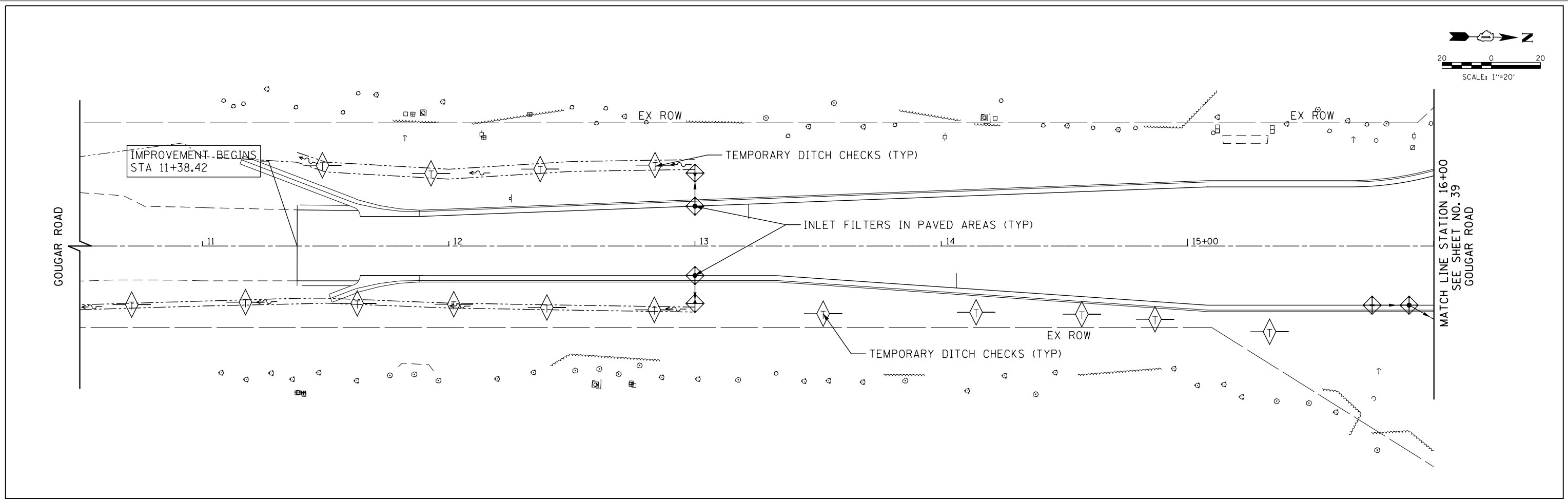


- NOTES
1. PAID PER FOOT FOR PERIMETER EROSION BARRIER.
 2. EACH FOOT OF SUPER SILT FENCE WILL BE MEASURED AS 2 FEET OF PERIMETER EROSION BARRIER.
 3. THE POSTS SHALL BE A MINIMUM OF 4 FEET LONG.
 4. TEMPORARY FENCE SHALL BE INSTALLED IN FRONT OF OR BEHIND THESE FENCES TO PROVIDE HIGH VISIBILITY. PAID FOR AS TEMPORARY FENCE.

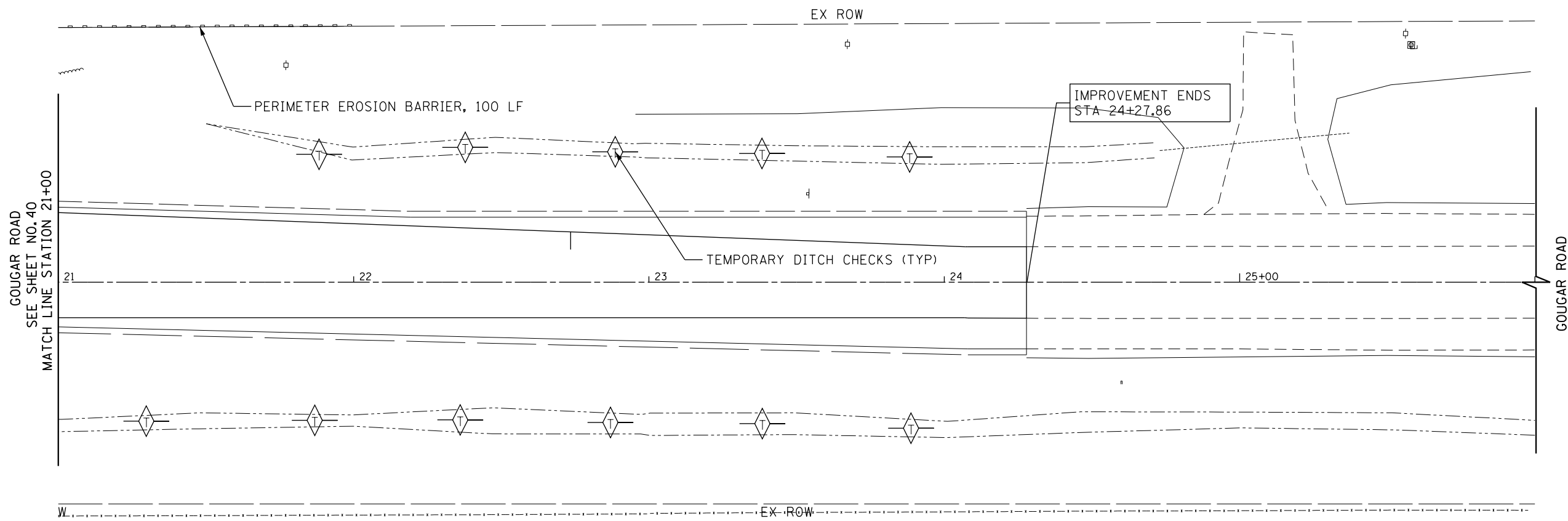
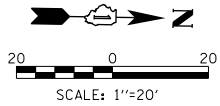
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	PLOT DATE = 2/6/2018	CHECKED - DWB	REVISED -		SCALE: 1"=20' SHEET NO. 38 OF 103 SHEETS STA. 50+00 TO STA. 59+50			CONTRACT NO. 61E47				
		DATE - 02-06-2018	REVISED -		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							



FILE NAME = *FILEL\$	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS EROSION AND SEDIMENT CONTROL PLANS			F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 39
								SCALE: 1"=20'	SHEET NO. 39 OF 103 SHEETS	STA. 59+50 TO STA. 70+50	CONTRACT NO. 61E47	
					FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							
PLOT SCALE = 40.0000' / in.		CHECKED - DWB	REVISED -									
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PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -		SCALE: 1"=20' SHEET NO. 40 OF 103 SHEETS STA. 10+50 TO STA. 21+00			CONTRACT NO. 61E47					
							FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



FILE NAME = *FILEL*	USER NAME = Mibeering	DESIGNED - NK	REVISED -
		DRAWN - NK	REVISED -
		CHECKED - DWB	REVISED -
		DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLANS**

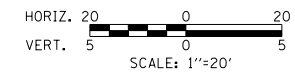
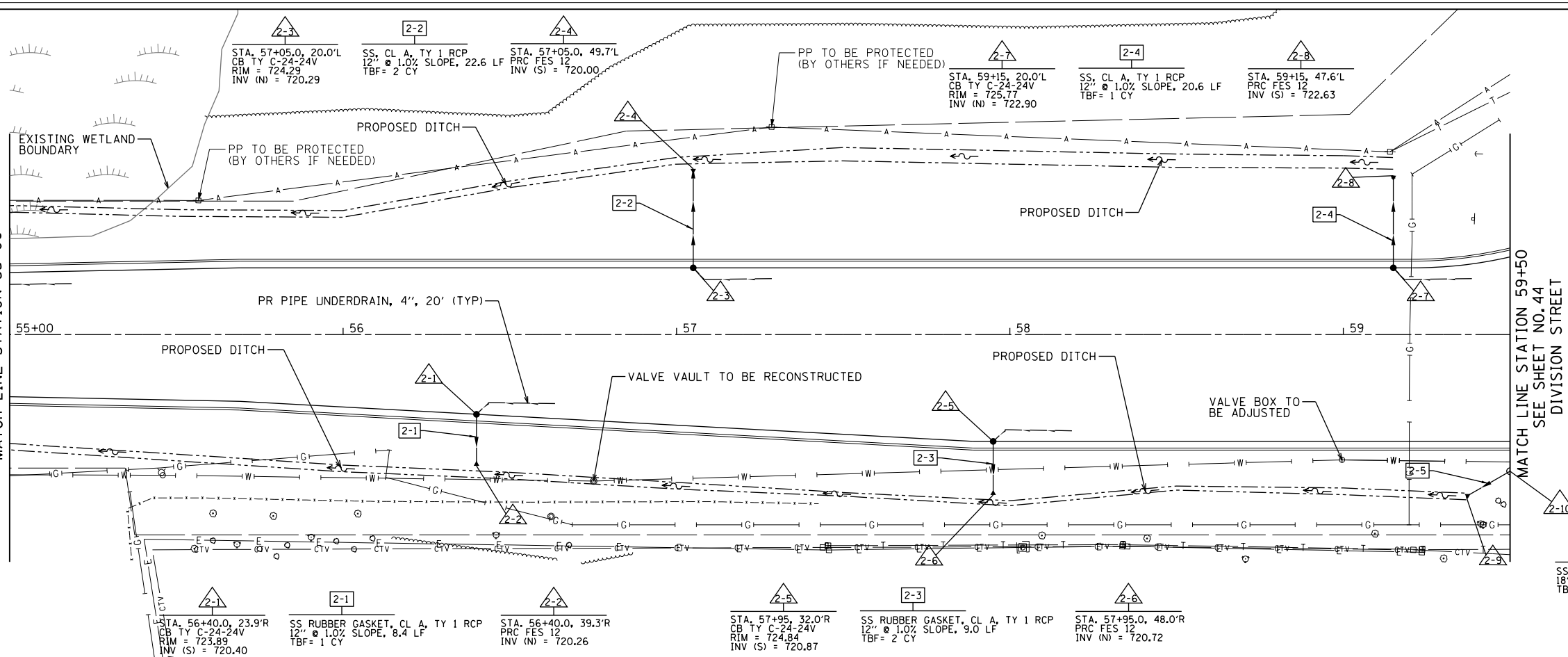
SCALE: 1"=20' SHEET NO. 41 OF 103 SHEETS STA. 21+00 TO STA. 26+00

F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 41
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E47	

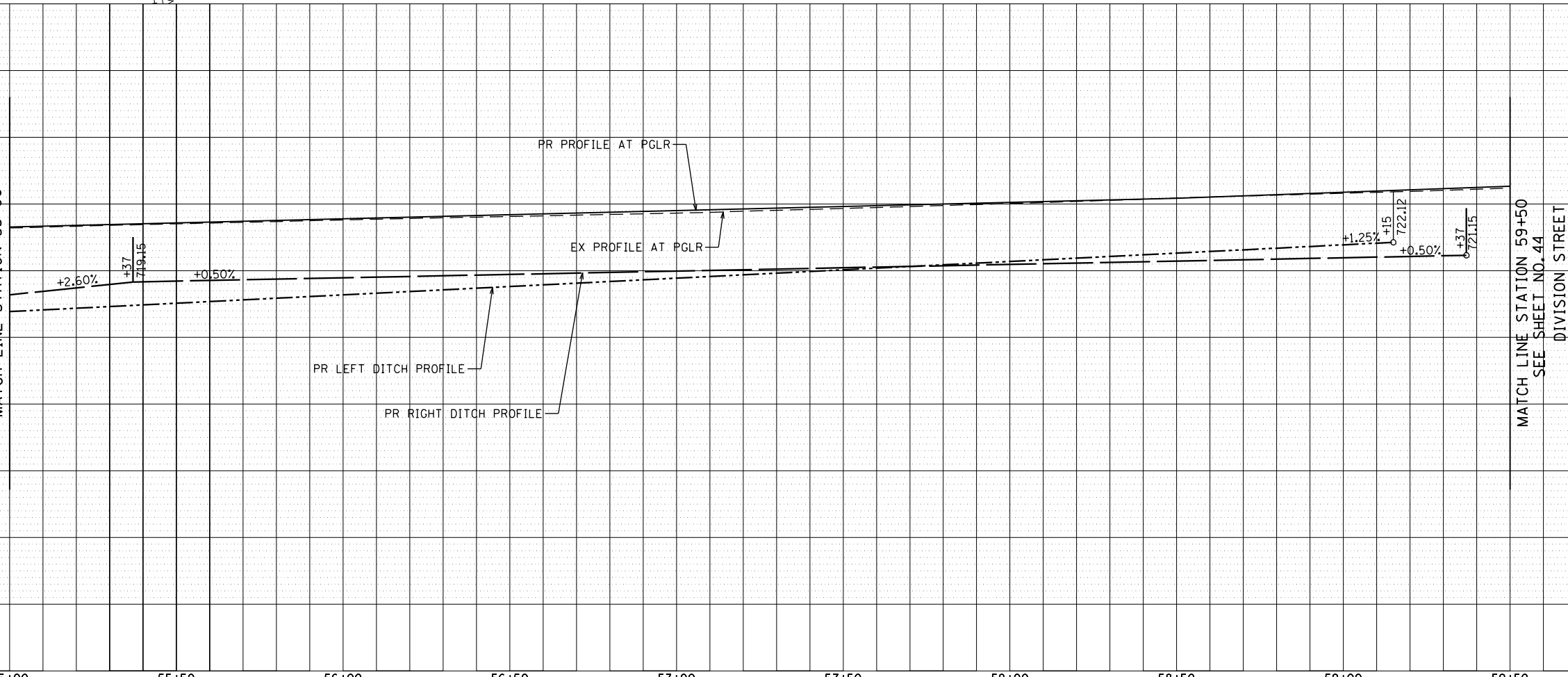
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	PLOTTED		
	CHECKED		
	FILED		
NOTE BOOK NO.	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	FILED		
NOTE BOOK NO.	NOTATION CHKD		

DIVISION STREET
SEE SHEET NO.42
MATCH LINE STATION 55+00



DIVISION STREET
SEE SHEET NO.42
MATCH LINE STATION 55+00

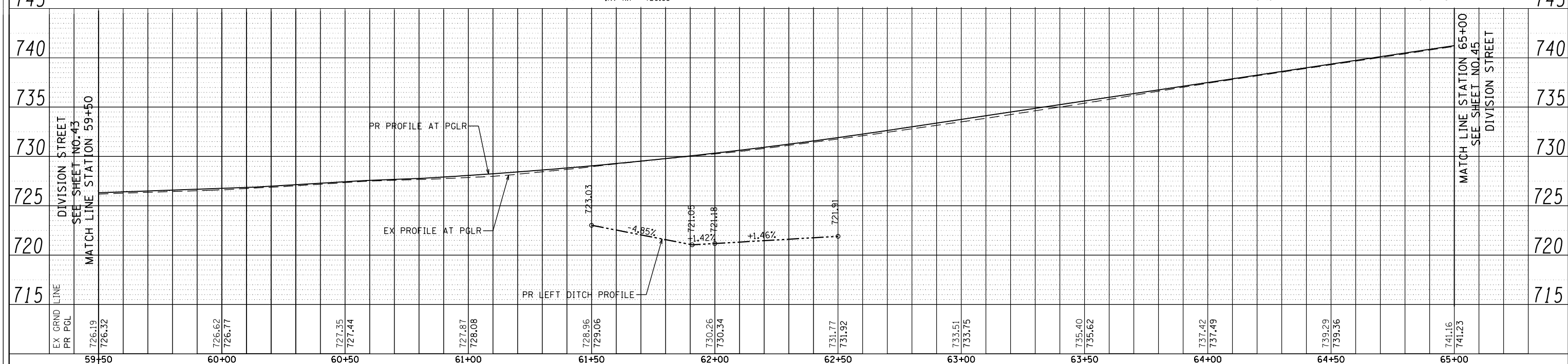
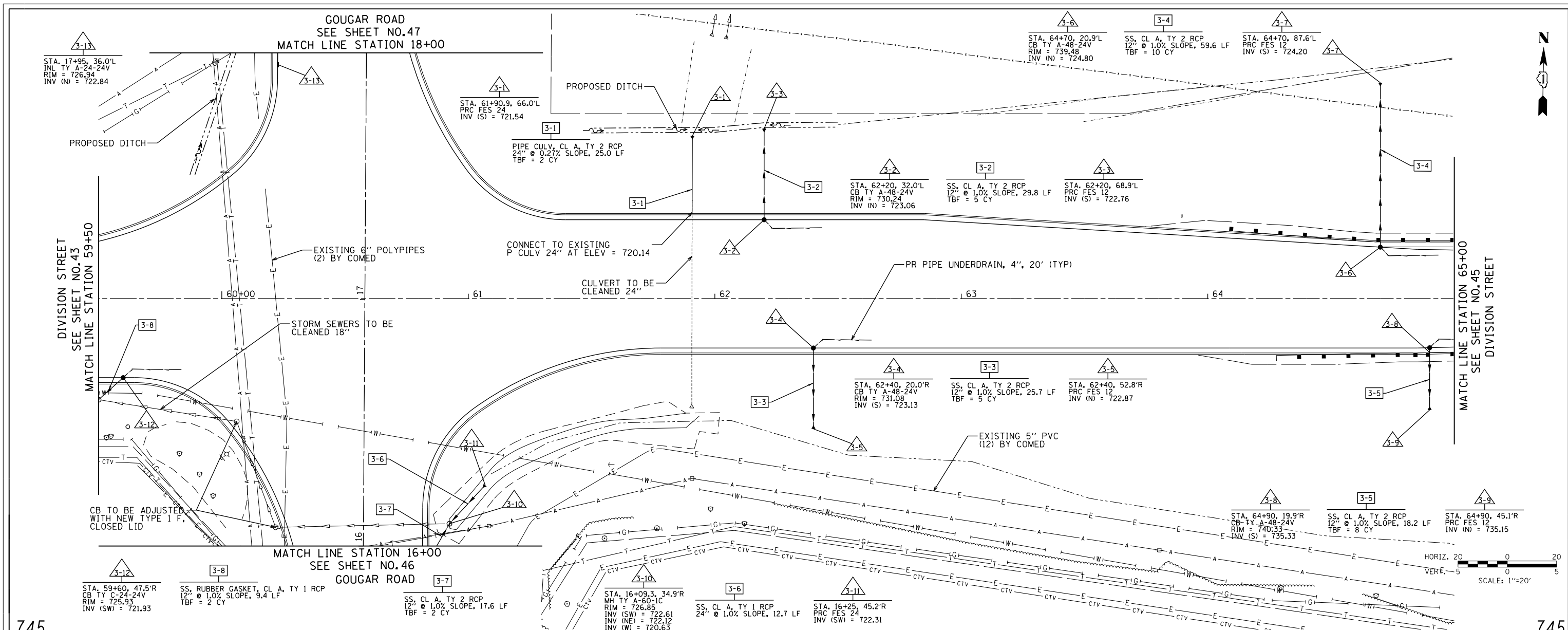


MATCH LINE STATION 59+50
SEE SHEET NO.44
DIVISION STREET

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS DRAINAGE AND UTILITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL	PLOT SCALE =	DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	43	
	PLOT DATE = 2/6/2018	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
		DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

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

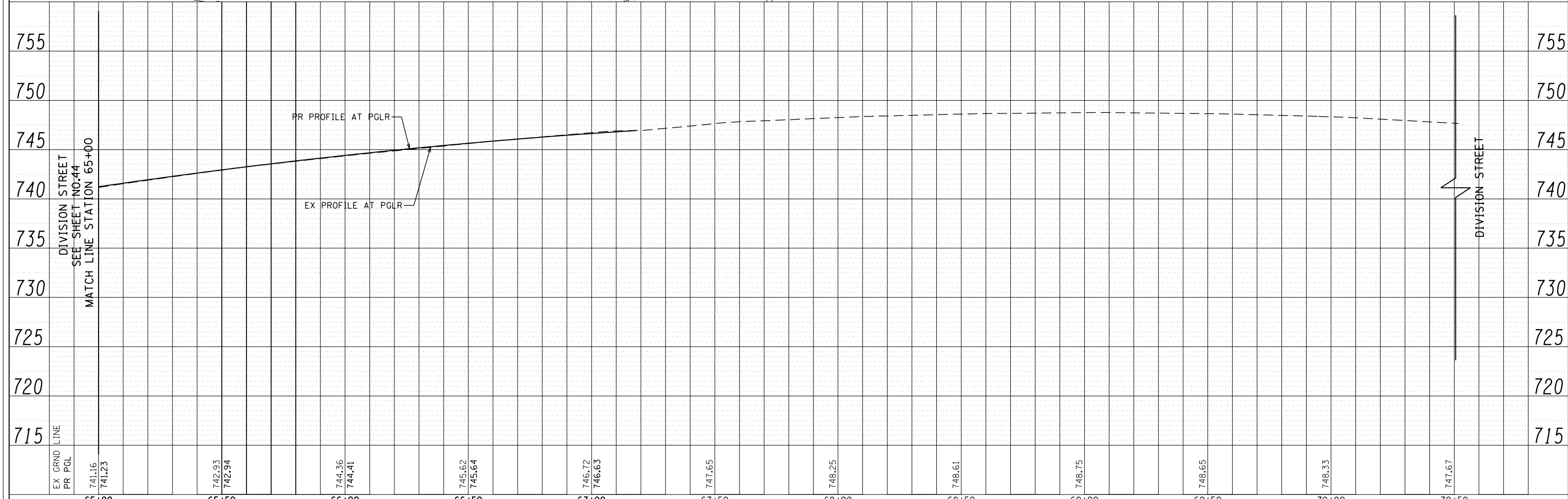
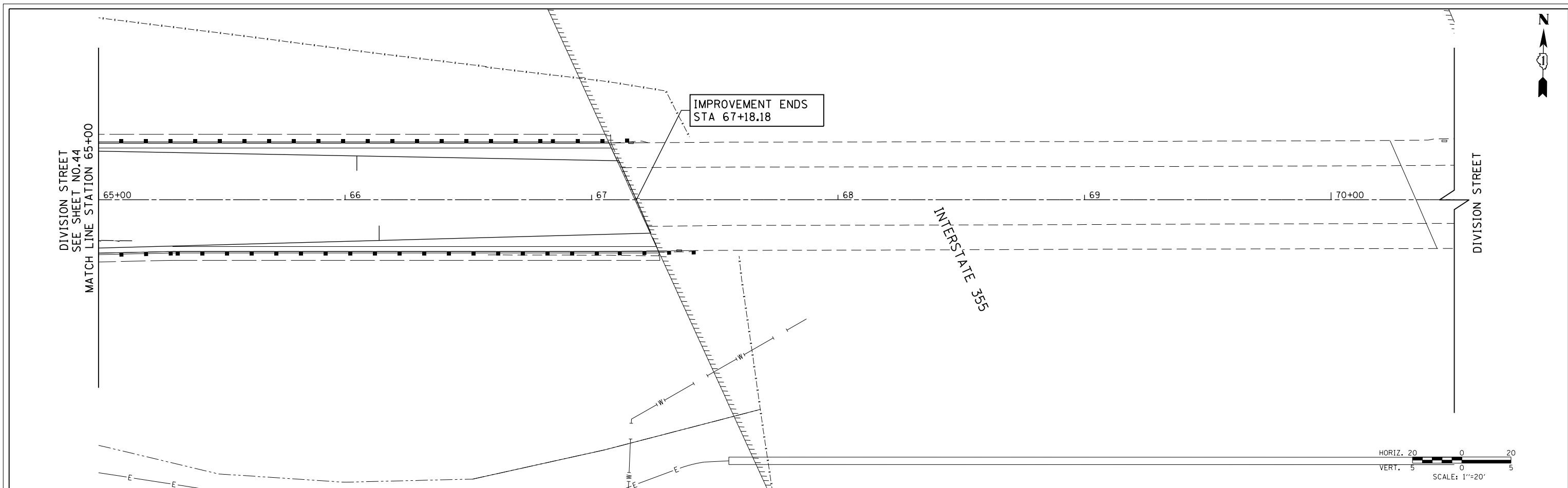
DATE	
BY	
PROFILE	
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PLOTTED	
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NO.	
FILE NAME	



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS DRAINAGE AND UTILITIES	F.A.P. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL#		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	44	
		CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
		DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

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

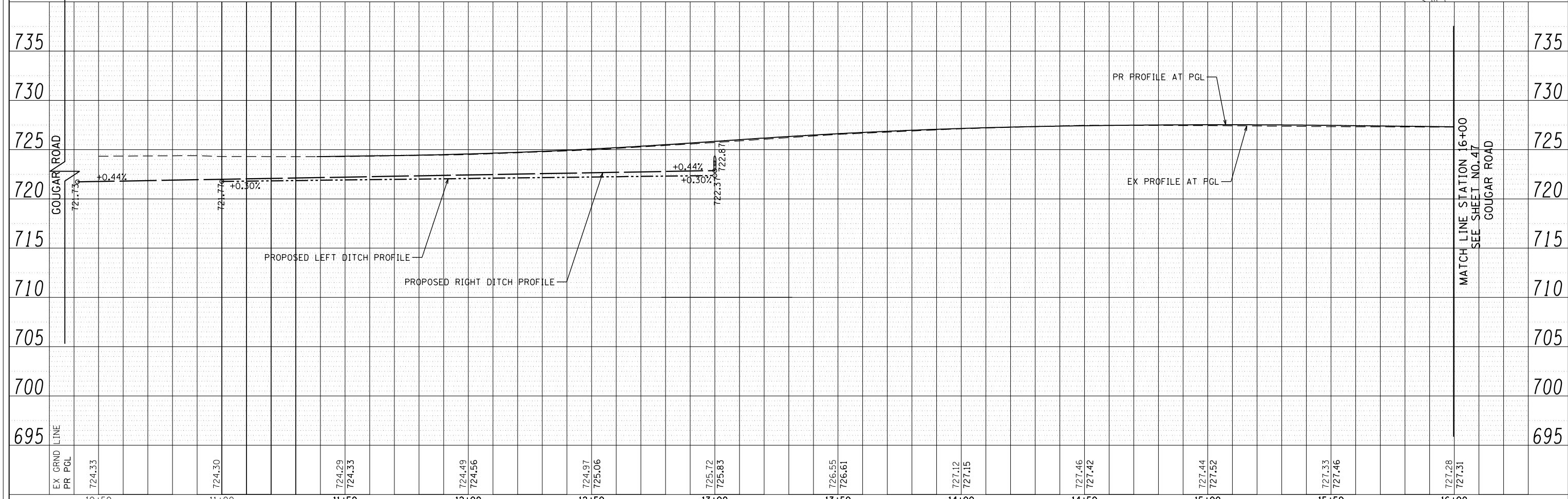
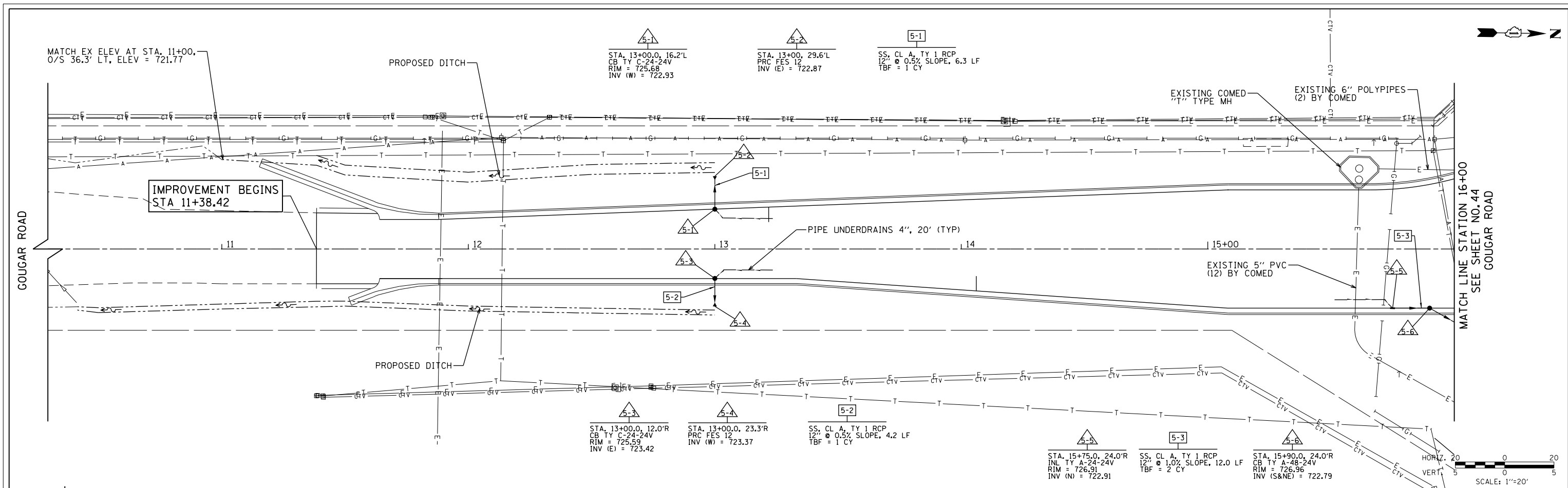
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	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK		
	NO.		
	STRUCTURE		
	NOTATRS CHFD		



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS DRAINAGE AND UTILITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	45	
PLOT SCALE =		CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
PLOT DATE = 2/6/2018		DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

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

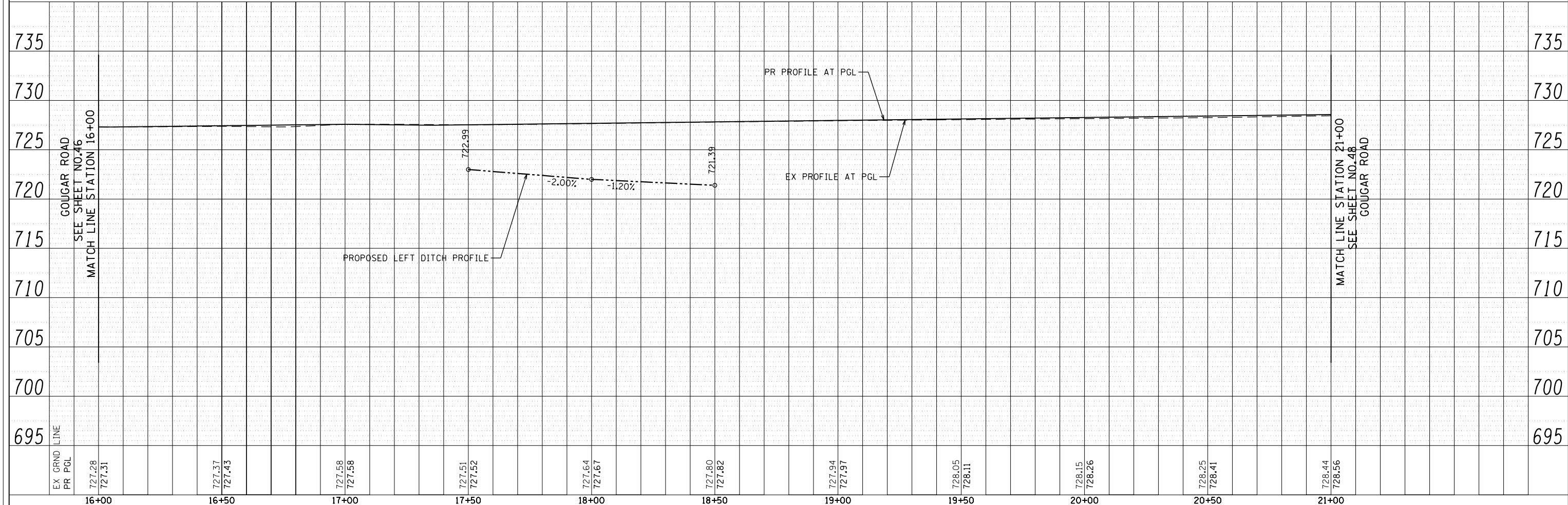
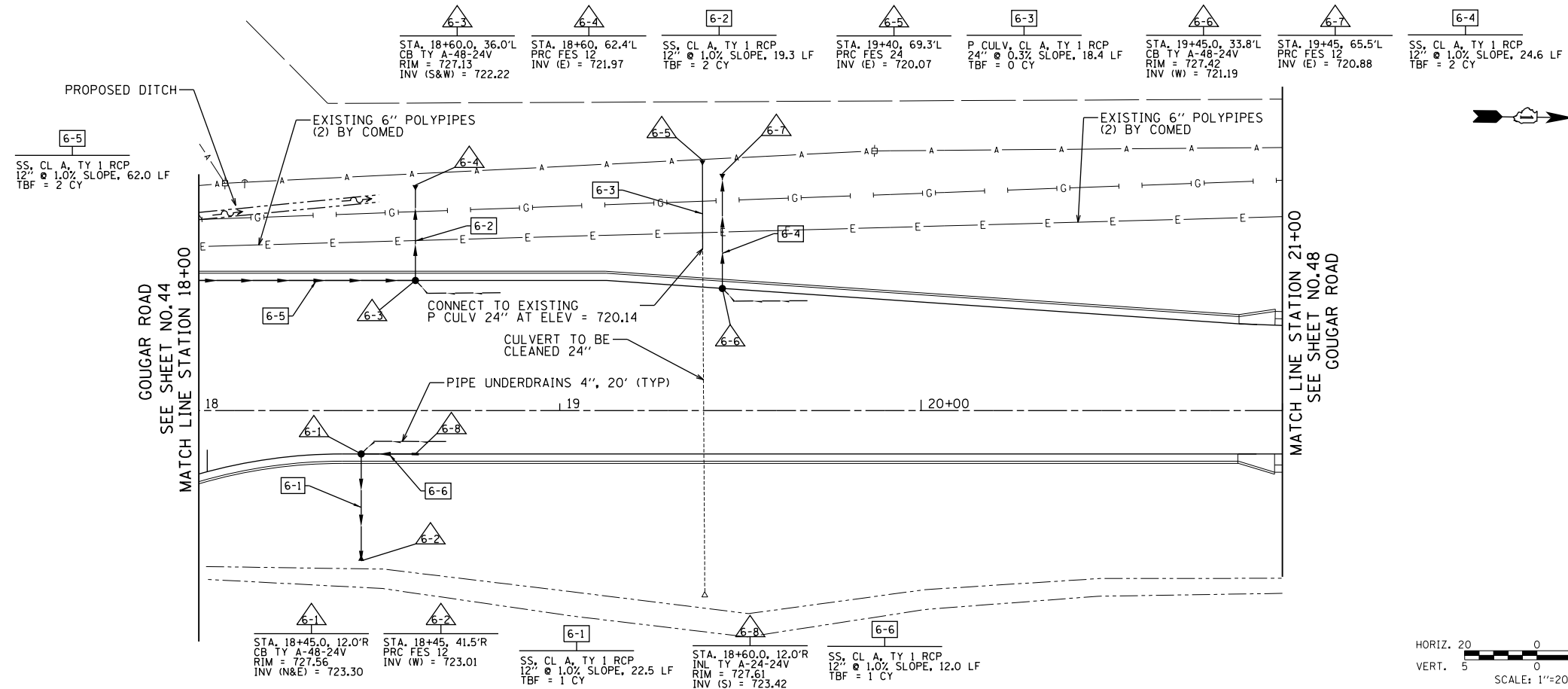
DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	CHECKED
	GRADES
	STRUCTURE
	NOTATIONS
	CHP/D
NOTE BOOK NO.	
CADD FILE NAME	



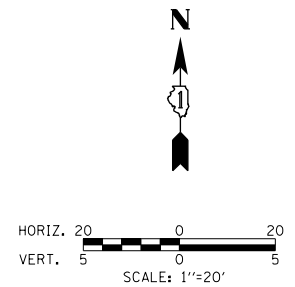
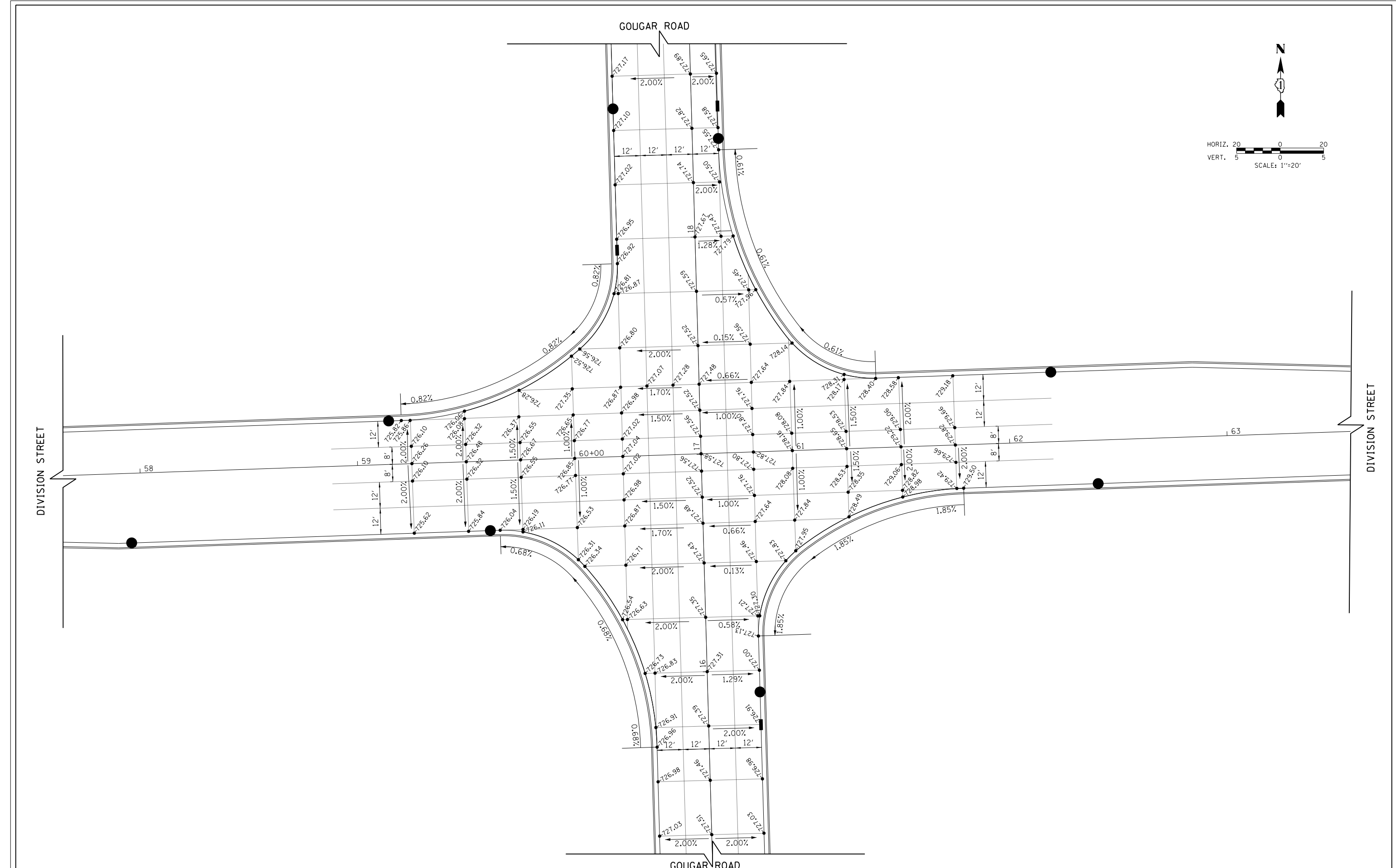
FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS DRAINAGE AND UTILITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL#		DRAWN - NK	REVISED -				291/367	14-00081-00-CH	WILL	103	46
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PLOT DATE = 2/6/2018		DATE - 02-06-2018	REVISED -				FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS DRAINAGE AND UTILITIES	F.A.P. R.E.T.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	47	
		CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
		DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



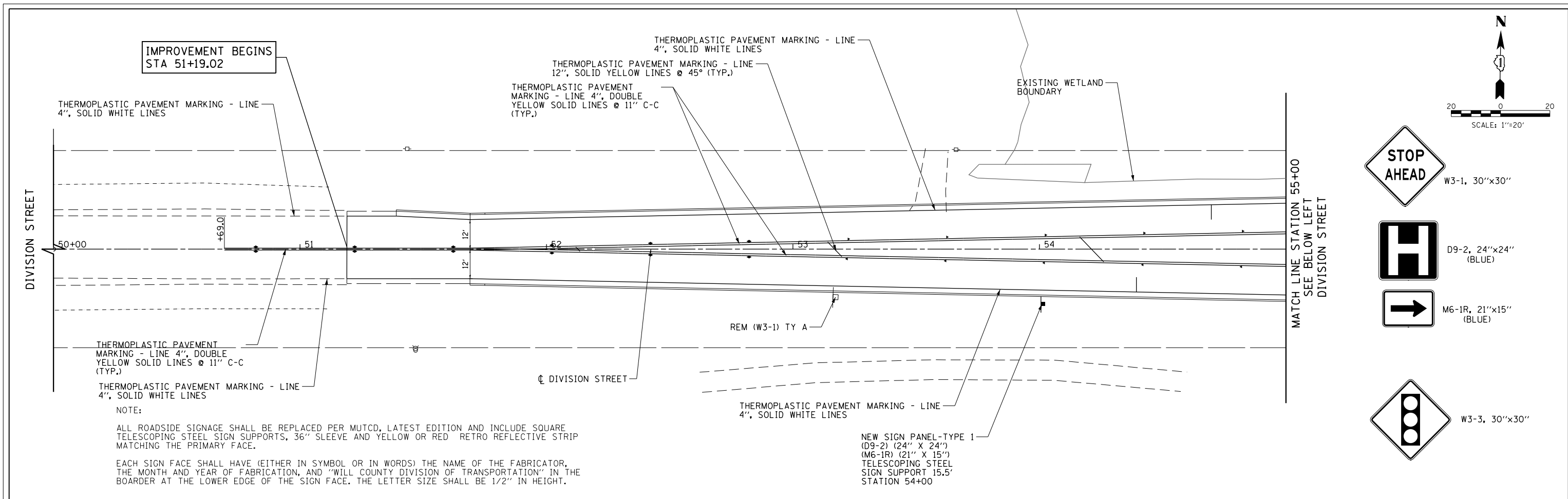
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
INTERSECTION DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	49
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SHEET NO. 49 OF 103 SHEETS STA. TO STA.






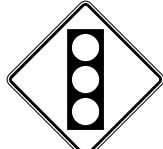
IMPROVEMENT BEGINS
STA 51+19.02

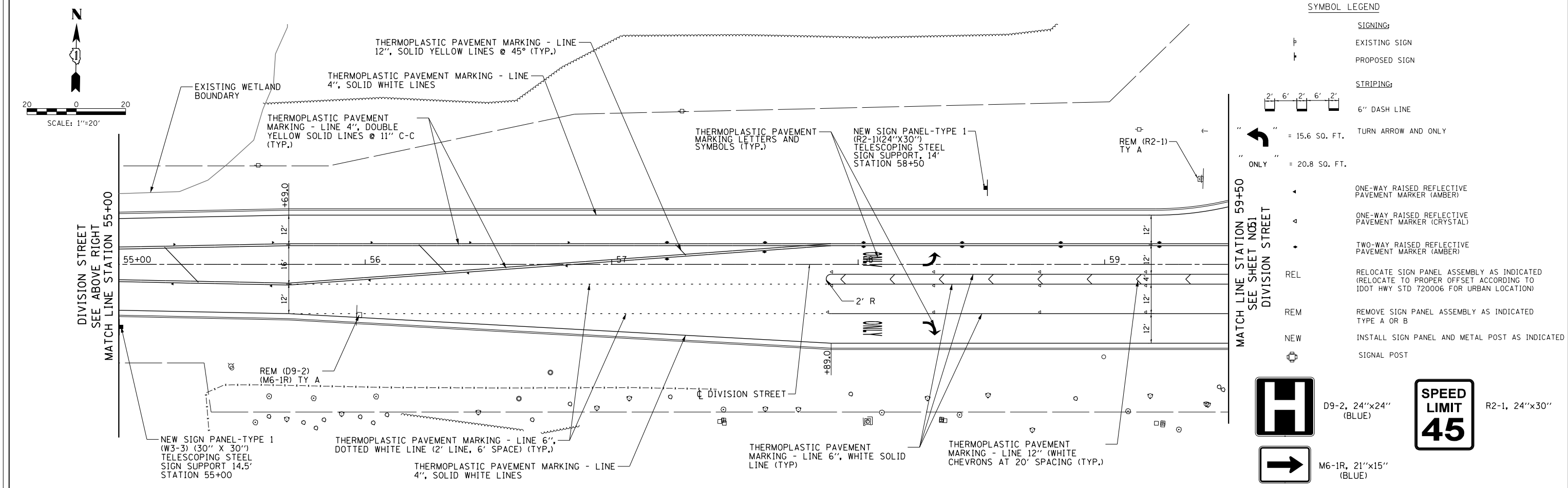
NOTE:

ALL ROADSIDE SIGNAGE SHALL BE REPLACED PER MUTCD, LATEST EDITION AND INCLUDE SQUARE TELESCOPING STEEL SIGN SUPPORTS, 36" SLEEVE AND YELLOW OR RED RETRO REFLECTIVE STRIP MATCHING THE PRIMARY FACE.



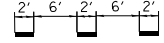
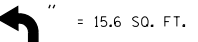
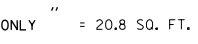




EACH SIGN FACE SHALL HAVE (EITHER IN SYMBOL OR IN WORDS) THE NAME OF THE FABRICATOR, THE MONTH AND YEAR OF FABRICATION, AND "WILL COUNTY DIVISION OF TRANSPORTATION" IN THE BORDER AT THE LOWER EDGE OF THE SIGN FACE. THE LETTER SIZE SHALL BE 1/2" IN HEIGHT.





NEW SIGN PANEL-TYPE 1
(D9-2) (24" X 24")
(M6-1R) (21" X 15")
TELESCOPING STEEL
SIGN SUPPORT 15.5'
STATION 54+00

-  W3-1, 30"x30"
-  D9-2, 24"x24"
(BLUE)
-  M6-1R, 21"x15"
(BLUE)
-  W3-3, 30"x30"



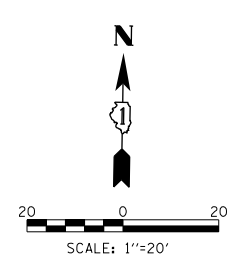
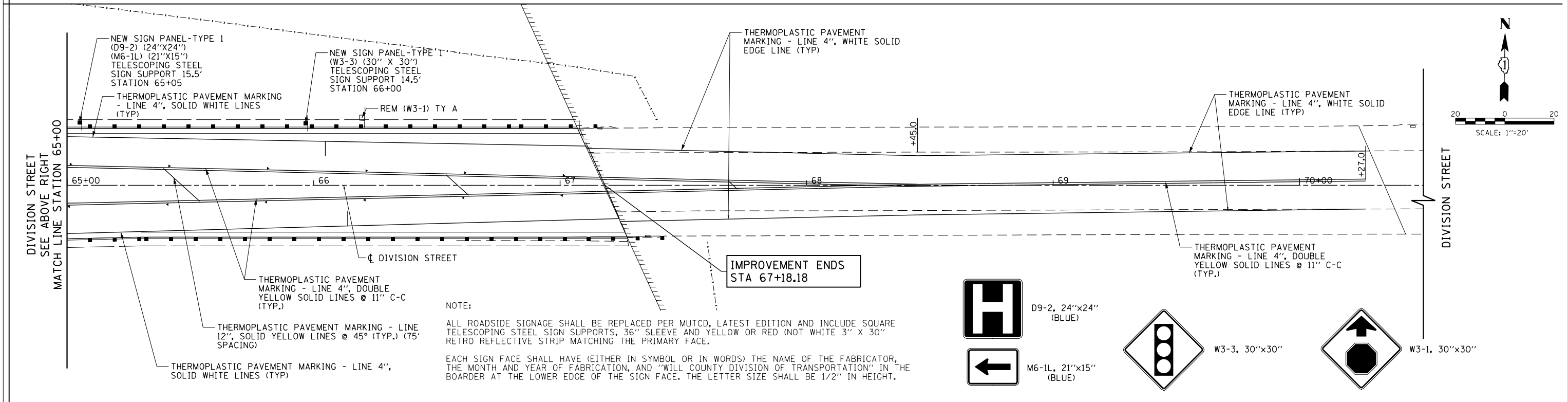
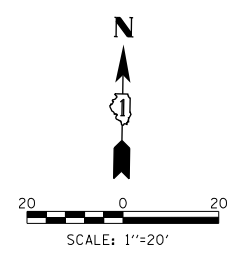
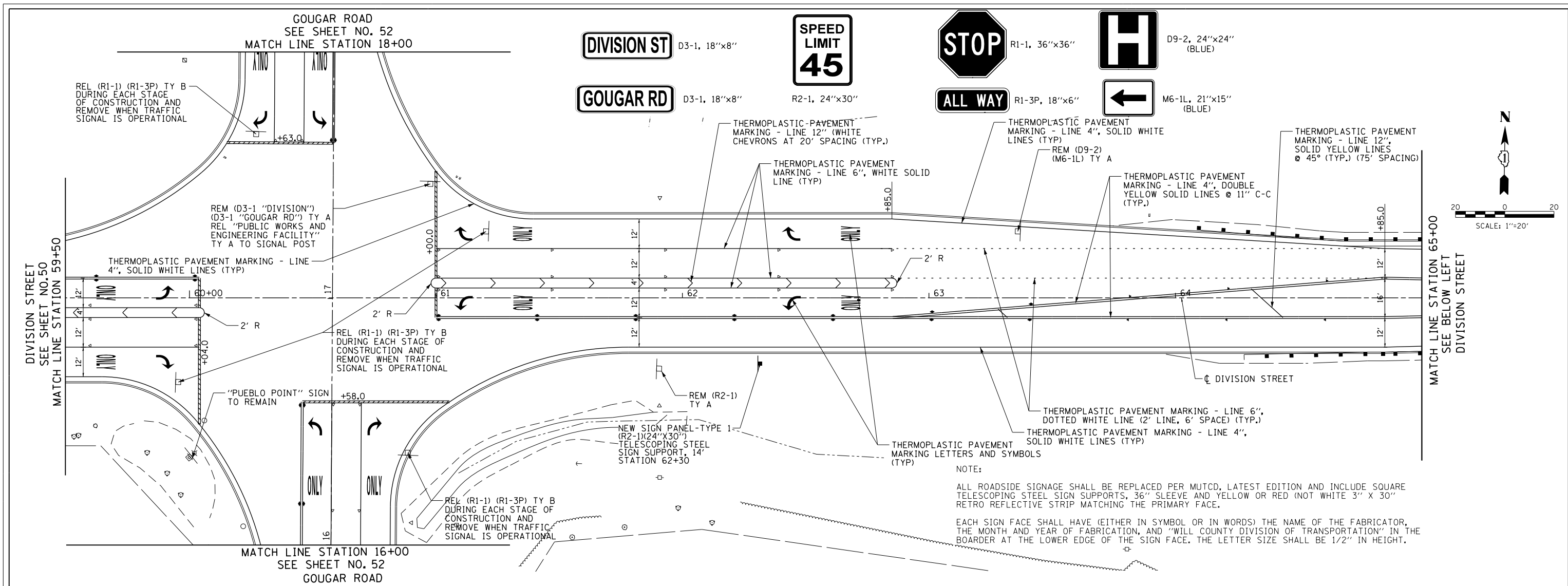
SYMBOL LEGEND

- SIGNING:**
-  EXISTING SIGN
-  PROPOSED SIGN
- STRIPING:**
-  6" DASH LINE
-  = 15.6 SQ. FT.
-  = 20.8 SQ. FT.
-  ONE-WAY RAISED REFLECTIVE PAVEMENT MARKER (AMBER)
-  ONE-WAY RAISED REFLECTIVE PAVEMENT MARKER (CRYSTAL)
-  TWO-WAY RAISED REFLECTIVE PAVEMENT MARKER (AMBER)
- REL RELOCATE SIGN PANEL ASSEMBLY AS INDICATED (RELOCATE TO PROPER OFFSET ACCORDING TO 100T HWY STD 720006 FOR URBAN LOCATION)
- REM REMOVE SIGN PANEL ASSEMBLY AS INDICATED TYPE A OR B
- NEW INSTALL SIGN PANEL AND METAL POST AS INDICATED
-  SIGNAL POST

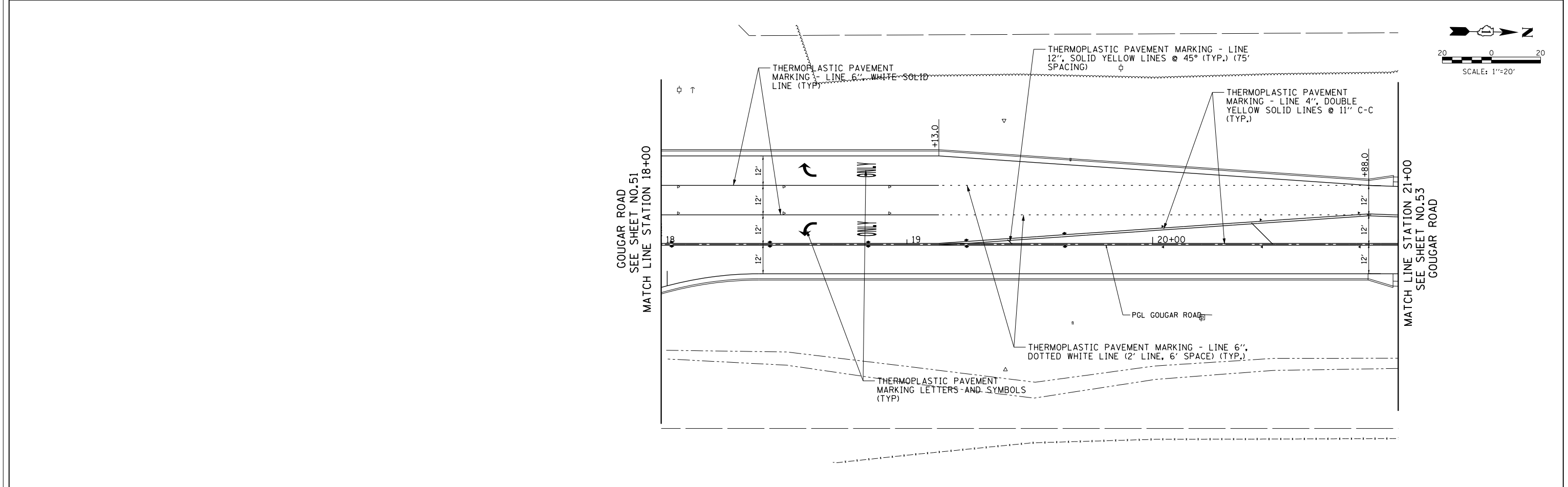
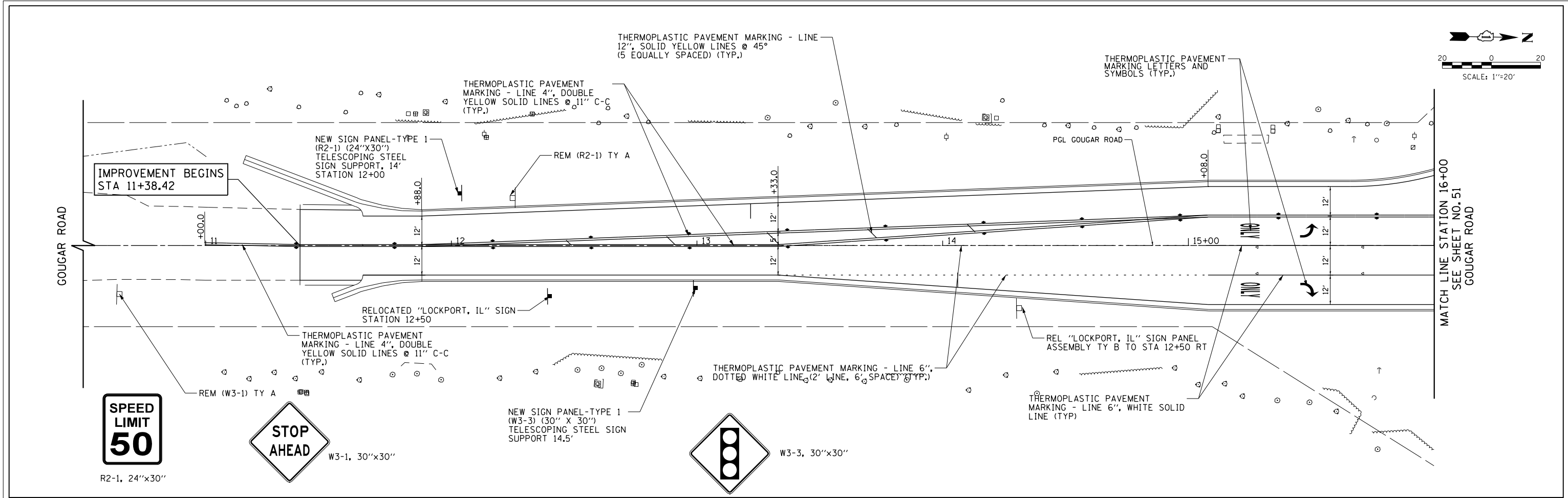
-  D9-2, 24"x24"
(BLUE)
-  R2-1, 24"x30"
-  M6-1R, 21"x15"
(BLUE)
- 

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PAVEMENT MARKING AND SIGNING PLAN			F.A.U. RT. E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN - NK	REVISED -					291/367	14-00081-00-CH	WILL	103	50
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -					CONTRACT NO. 61E47				
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -					FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

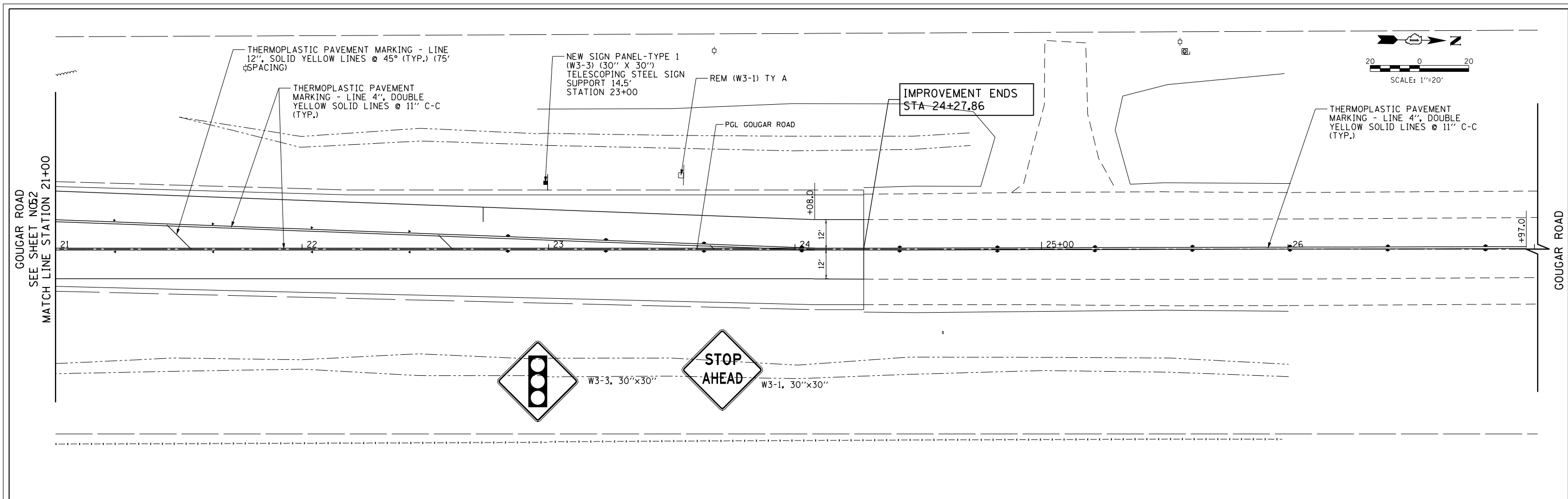
SCALE: 1"=20' SHEET NO.50 OF 103 SHEETS STA. 50+00 TO STA. 59+50



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PAVEMENT MARKING AND SIGNING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			SCALE: 1"=20'	SHEET NO. 51 OF 103 SHEETS	STA. 59+50	TO STA. 70+50	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT





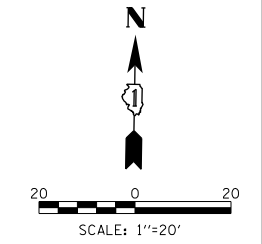
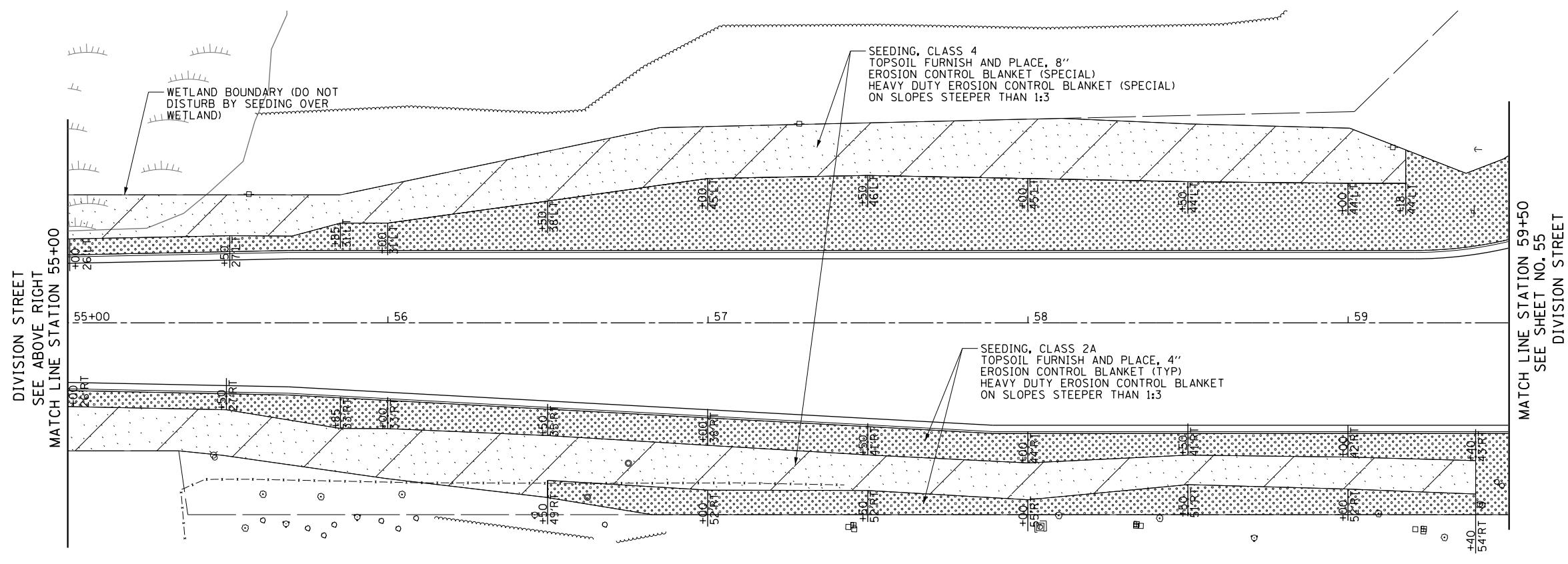
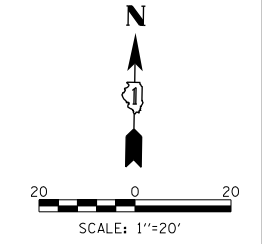
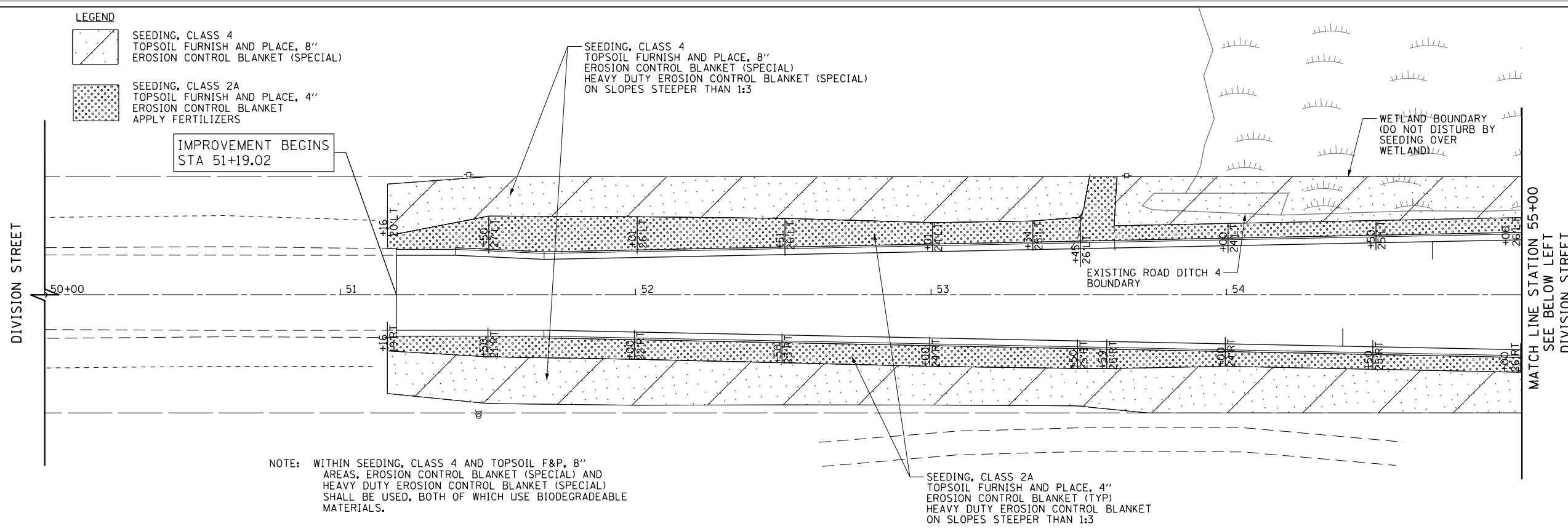
FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PAVEMENT MARKING AND SIGNING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL#		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	52	
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



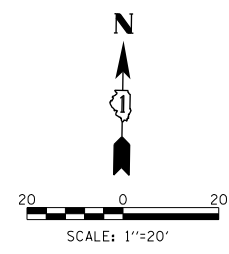
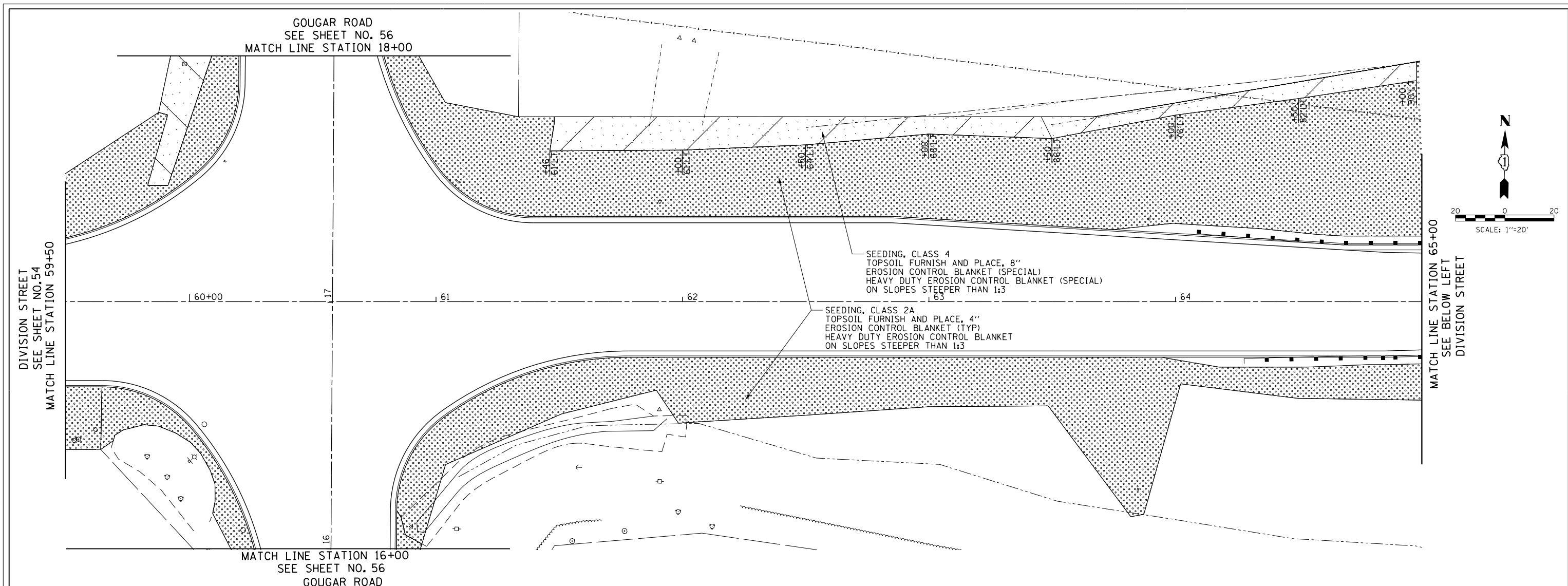
FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PAVEMENT MARKING AND SIGNING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

LEGEND

-  SEEDING, CLASS 4
TOPSOIL FURNISH AND PLACE, 8"
EROSION CONTROL BLANKET (SPECIAL)
-  SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 4"
EROSION CONTROL BLANKET
APPLY FERTILIZERS

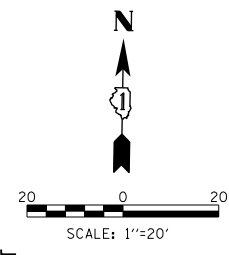
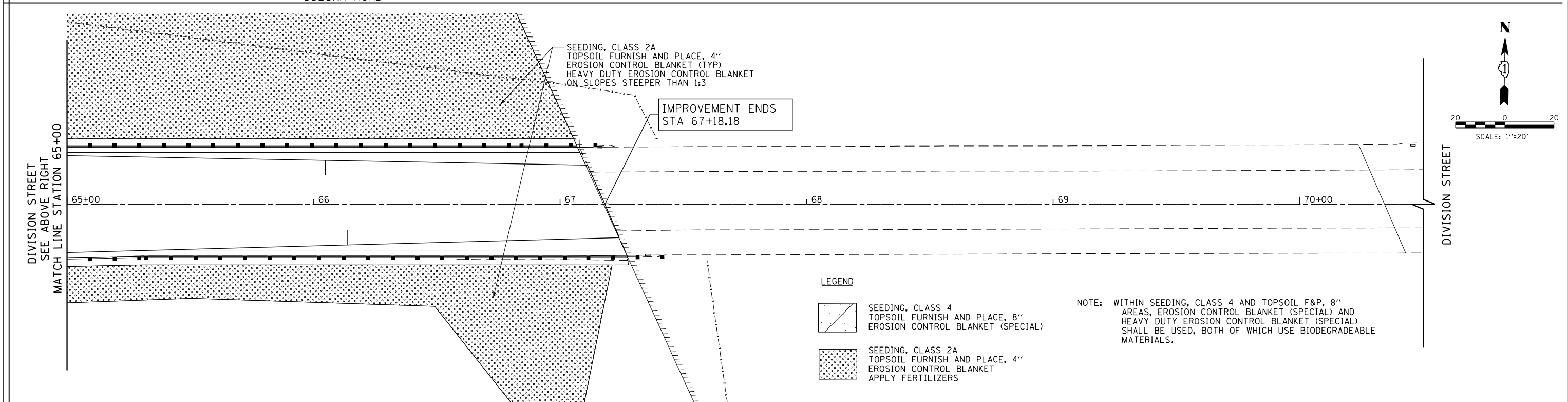


FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS LANDSCAPING PLANS	F.A.U. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					





SEEDING, CLASS 4
 TOPSOIL FURNISH AND PLACE, 8"
 EROSION CONTROL BLANKET (SPECIAL)
 HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL)
 ON SLOPES STEEPER THAN 1:3

SEEDING, CLASS 2A
 TOPSOIL FURNISH AND PLACE, 4"
 EROSION CONTROL BLANKET (TYP)
 HEAVY DUTY EROSION CONTROL BLANKET
 ON SLOPES STEEPER THAN 1:3



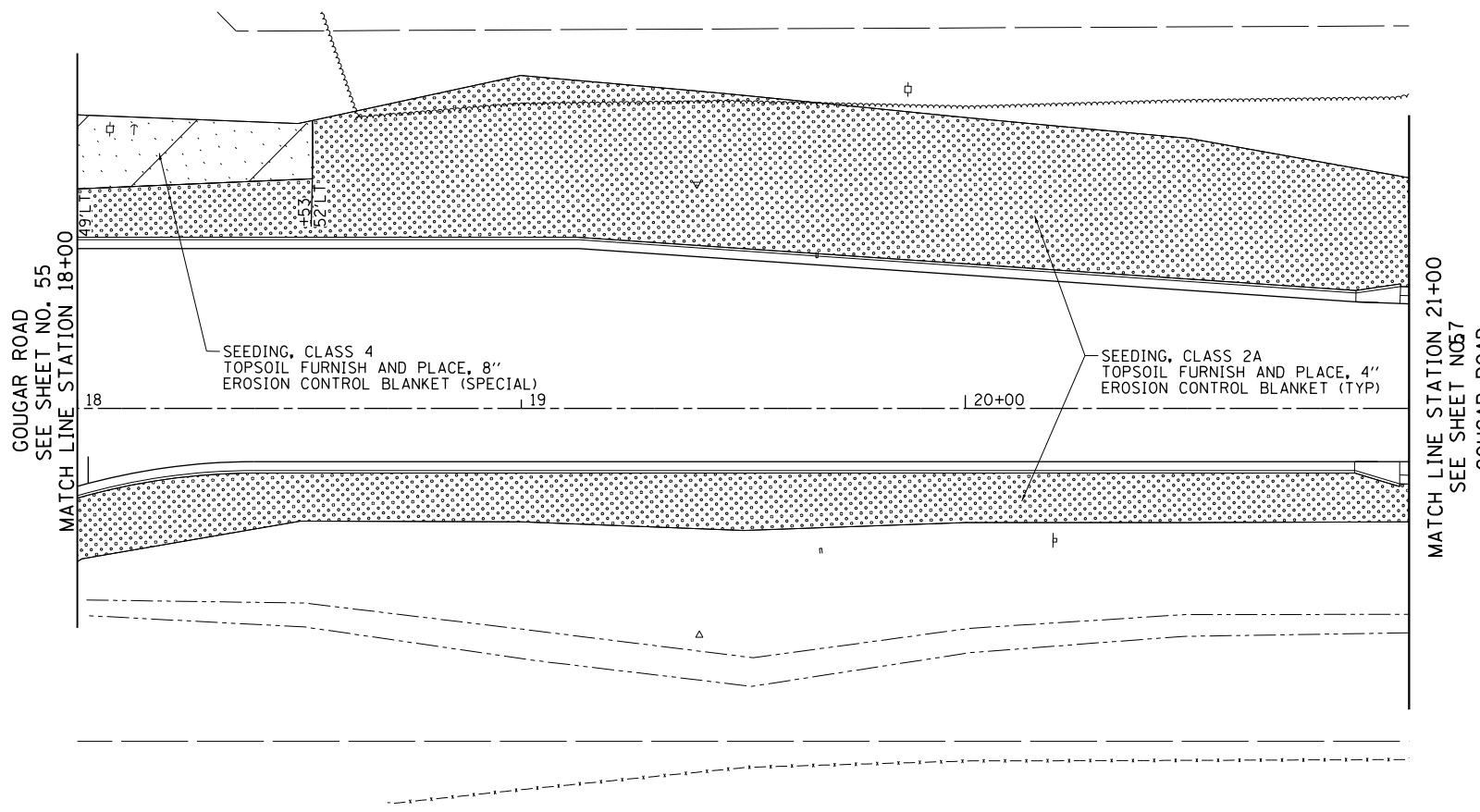
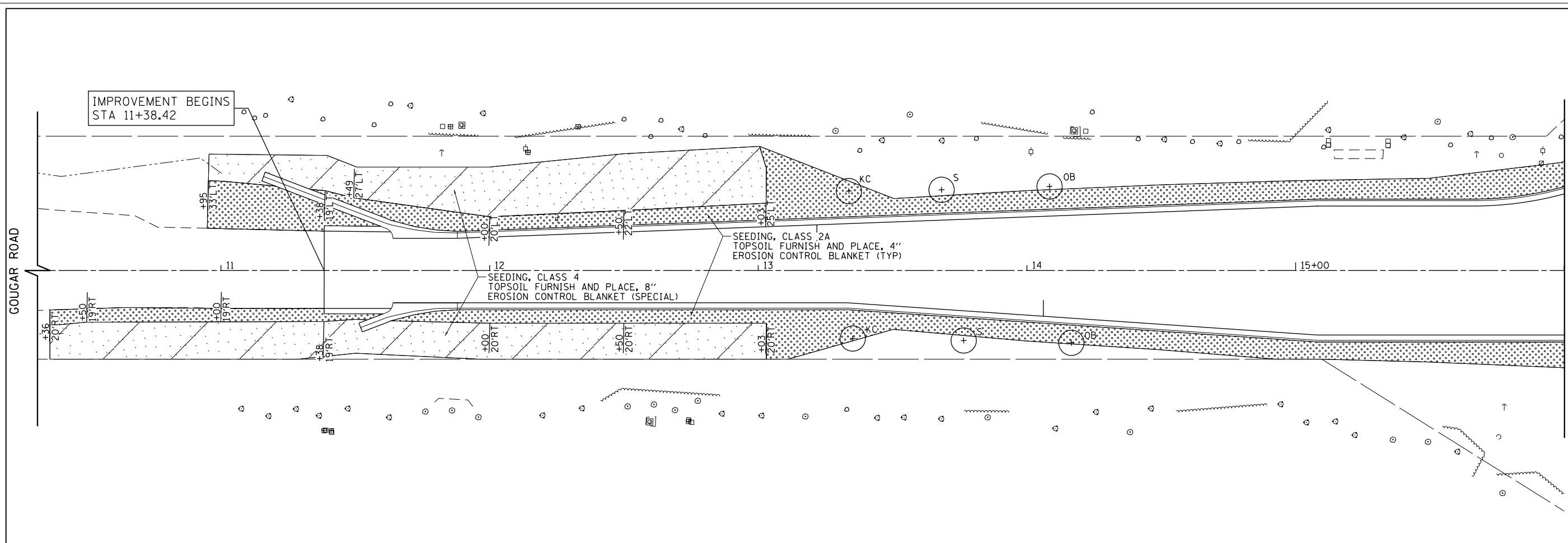
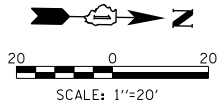
LEGEND

 SEEDING, CLASS 4
 TOPSOIL FURNISH AND PLACE, 8"
 EROSION CONTROL BLANKET (SPECIAL)




 SEEDING, CLASS 2A
 TOPSOIL FURNISH AND PLACE, 4"
 EROSION CONTROL BLANKET
 APPLY FERTILIZERS

NOTE: WITHIN SEEDING, CLASS 4 AND TOPSOIL F&P, 8" AREAS, EROSION CONTROL BLANKET (SPECIAL) AND HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) SHALL BE USED, BOTH OF WHICH USE BIODEGRADABLE MATERIALS.

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS LANDSCAPING PLANS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN - NK	REVISED -					291/367	14-00081-00-CH	WILL	103	55
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -		SCALE: 1"=20' SHEET NO. 55 OF 103 SHEETS STA. 59+50 TO STA. 70+50			CONTRACT NO. 61E47				
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							



LEGEND

-  SEEDING, CLASS 4
TOPSOIL FURNISH AND PLACE, 8"
EROSION CONTROL BLANKET (SPECIAL)
-  SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 4"
EROSION CONTROL BLANKET
APPLY FERTILIZERS
-  PROPOSED TREE
KC = KENTUCKY COFFEETREE
S = SYCAMORE
OB = OHIO BUCKEYE

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
*FILEL\$		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 56 OF 103 SHEETS STA. 10+50 TO STA. 21+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	56
			CONTRACT NO. 61E47	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

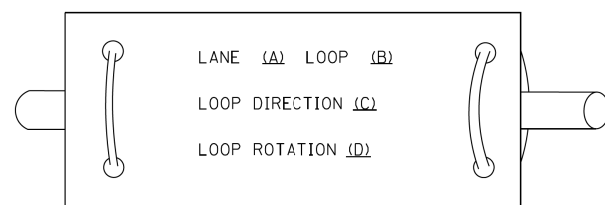
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE	 	 	PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		 	SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM					
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 	 	DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

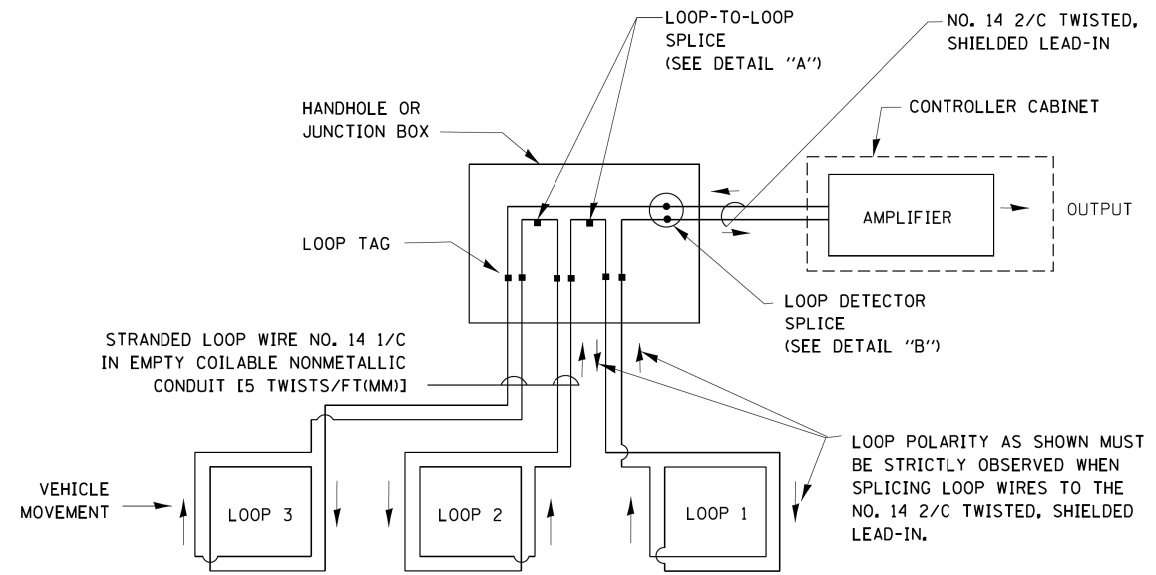
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

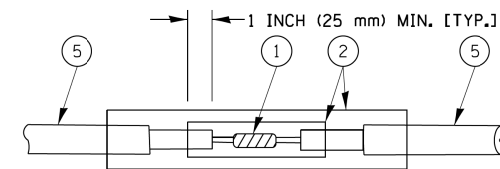


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

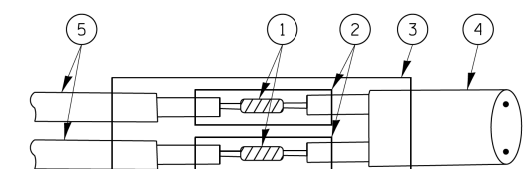


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

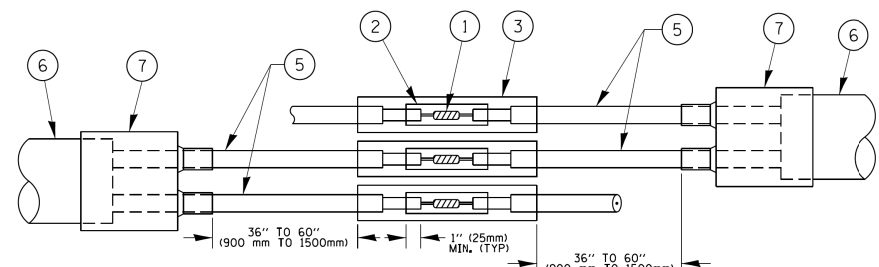


DETAIL "A"
LOOP-TO-LOOP SPLICE

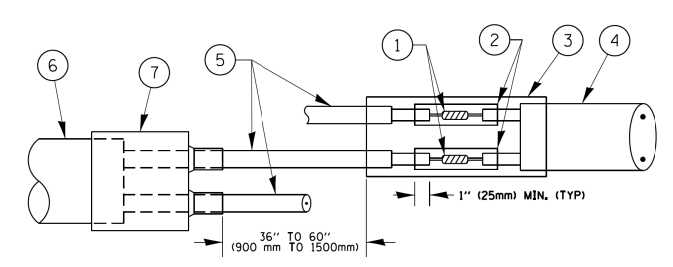


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

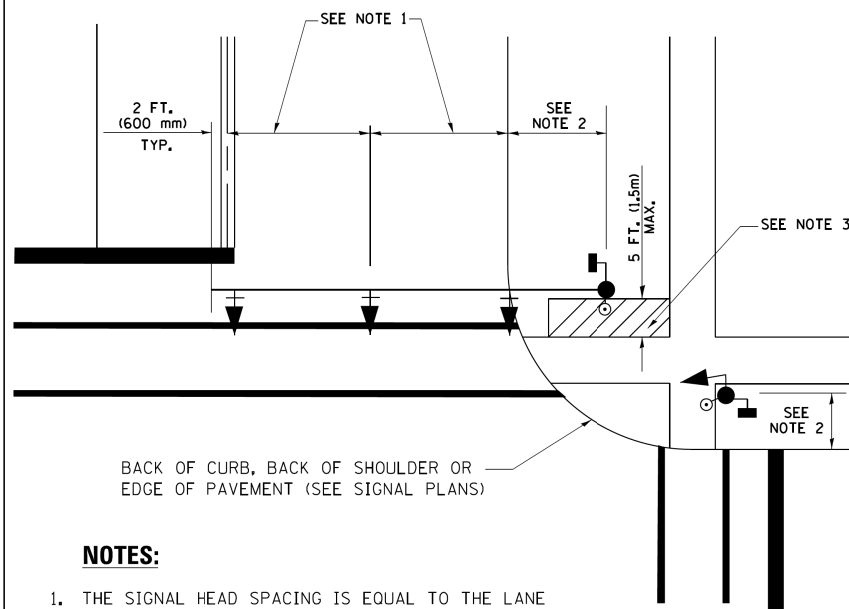
PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS.

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 59
ca:\pwwork\pwwork\footemj\00108315\ts05.dgn	PLOT SCALE = 50.0000' / 1"	DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 61E47		
	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-28-09	REVISED -									

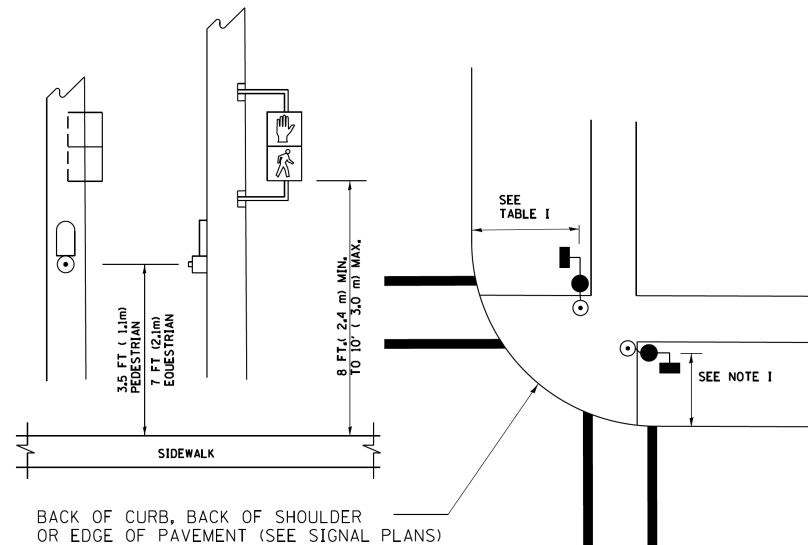
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

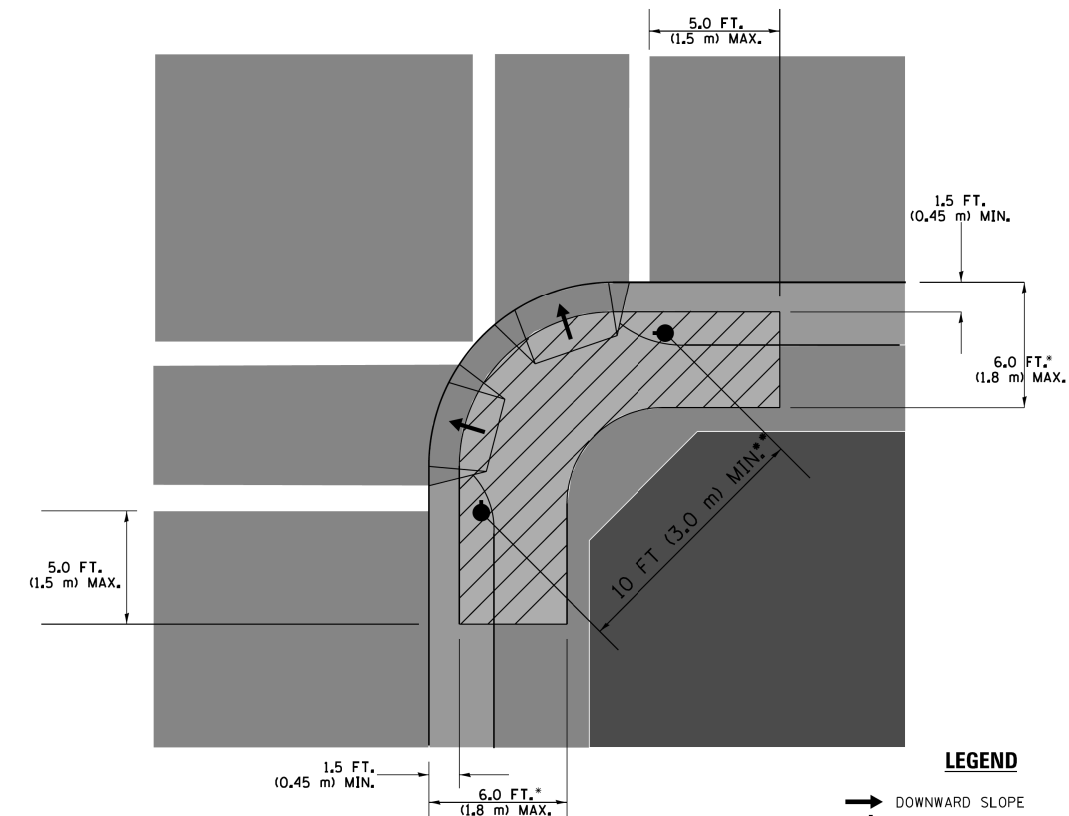
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

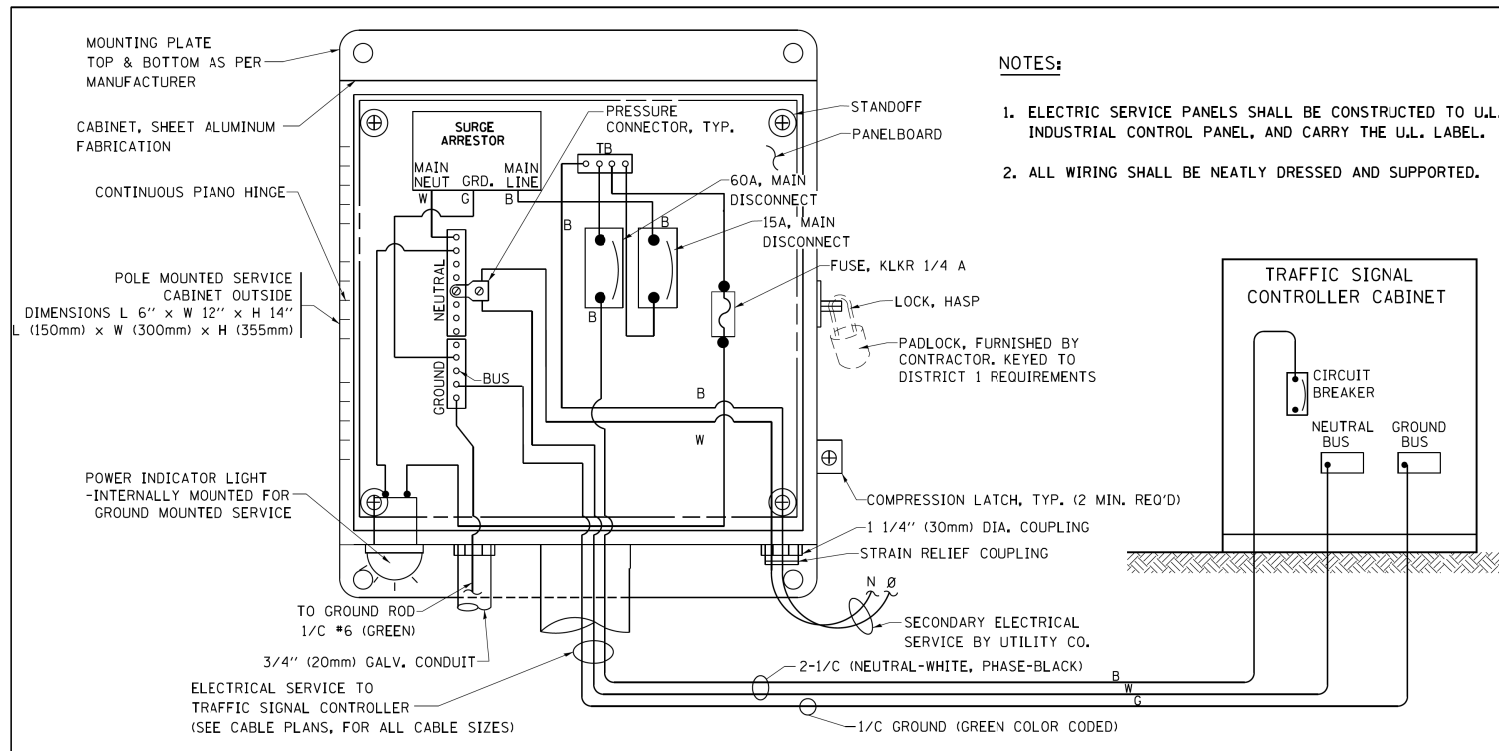
TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

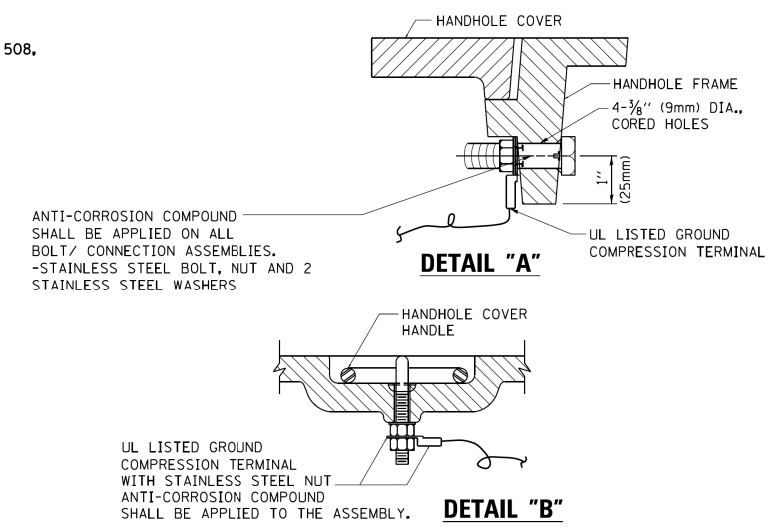
NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED - DAD	REVISED -			TS-05		CONTRACT NO. 6IE47			
		DATE - 10-28-09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
				SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.				

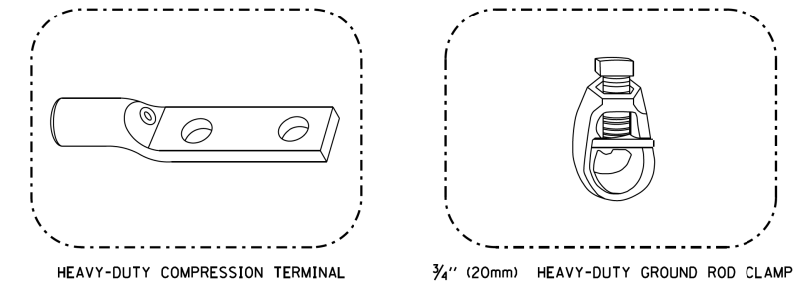
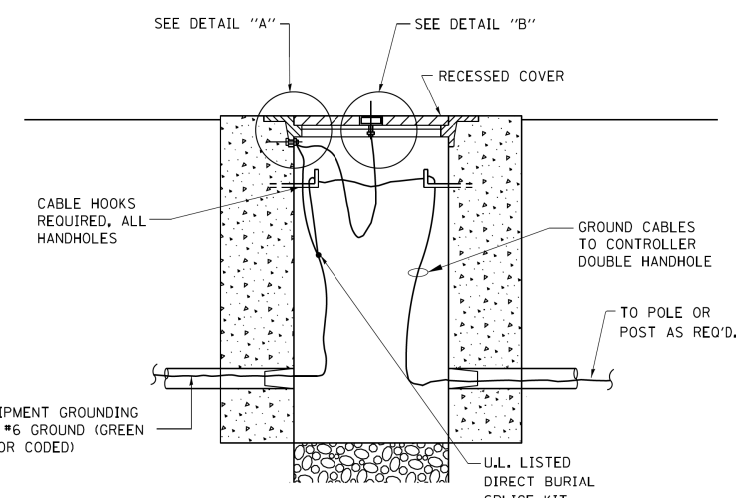


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**



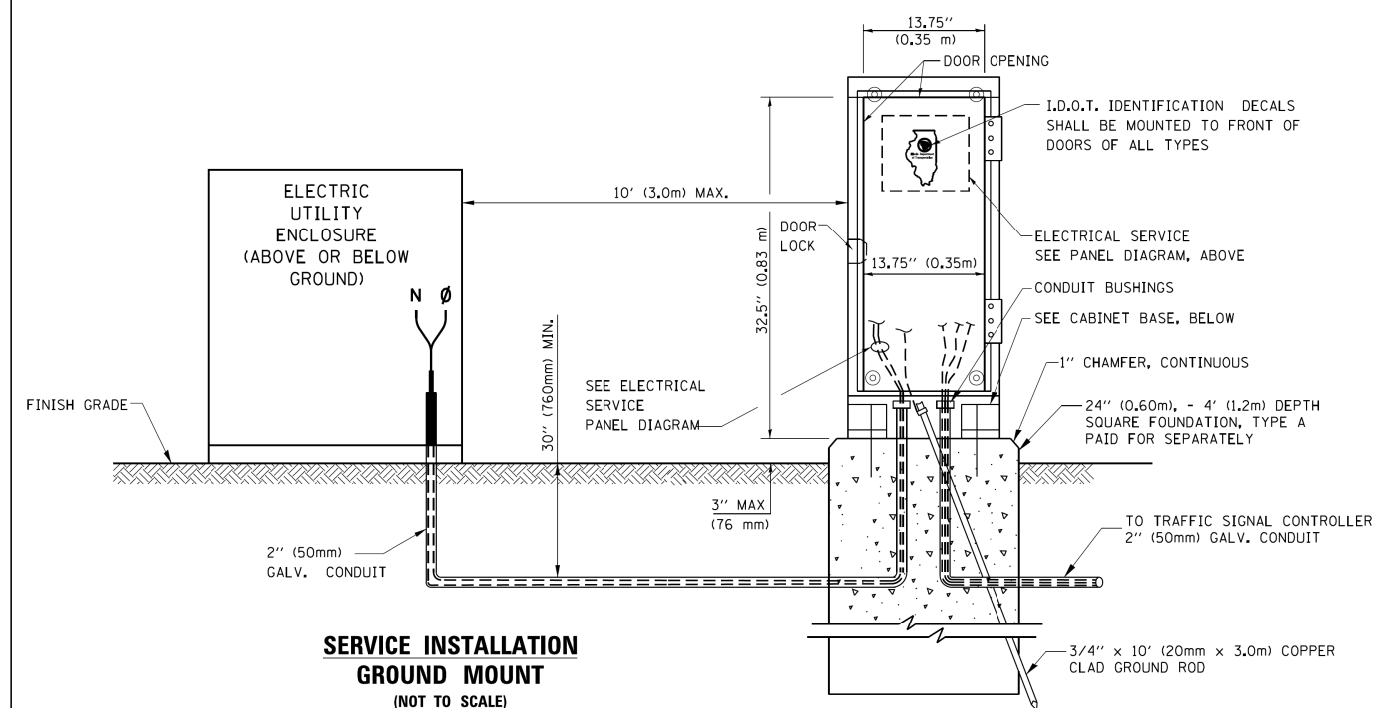
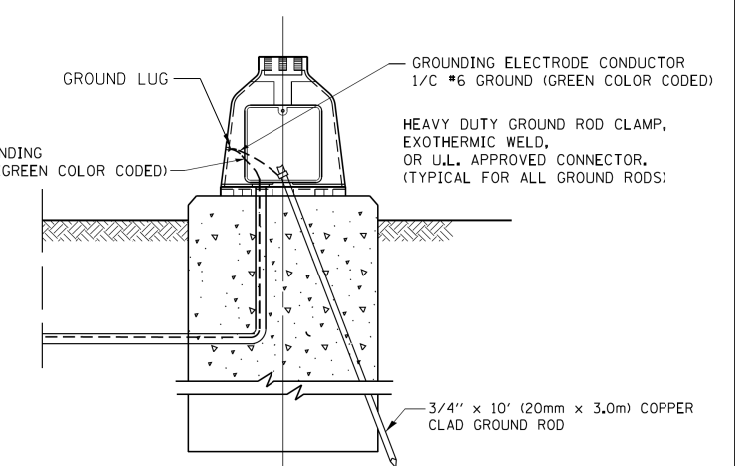
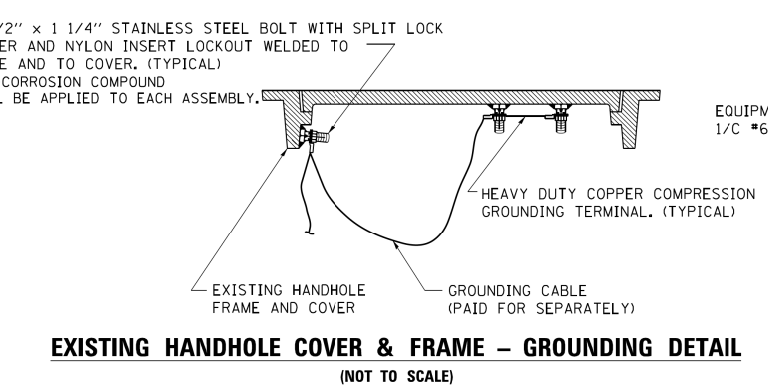
NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

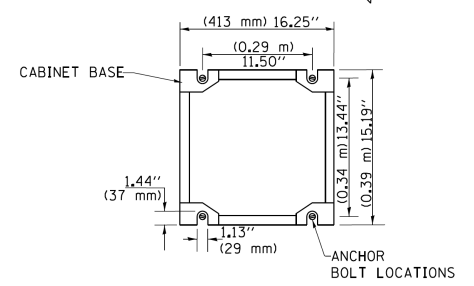


NOTES:

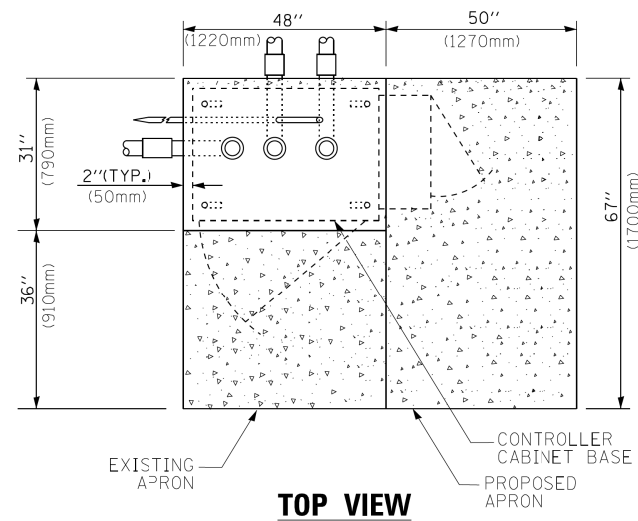
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



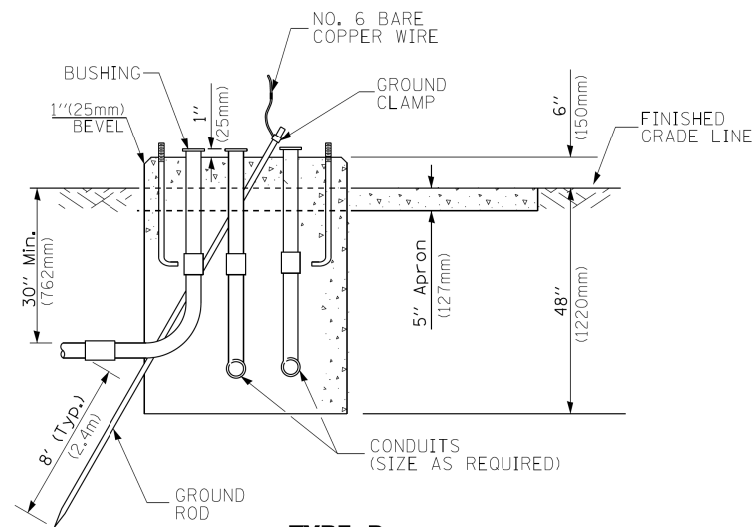
**CABINET – BASE BOLT PATTERN
(NOT TO SCALE)**



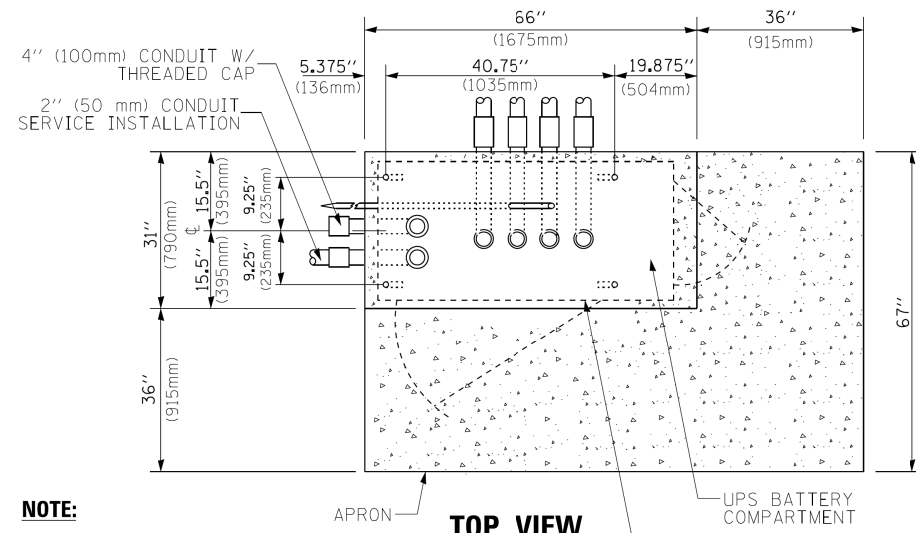
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ca:\pwwork\pwwork\footemj\00108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 4	OF 7 SHEETS	STA.	TO STA.	291/367	14-00081-00-CH	WILL	103	61
		CHECKED - DAD	REVISED -					TS-05		CONTRACT NO. 61E47				
		DATE - 10-28-09	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



TOP VIEW



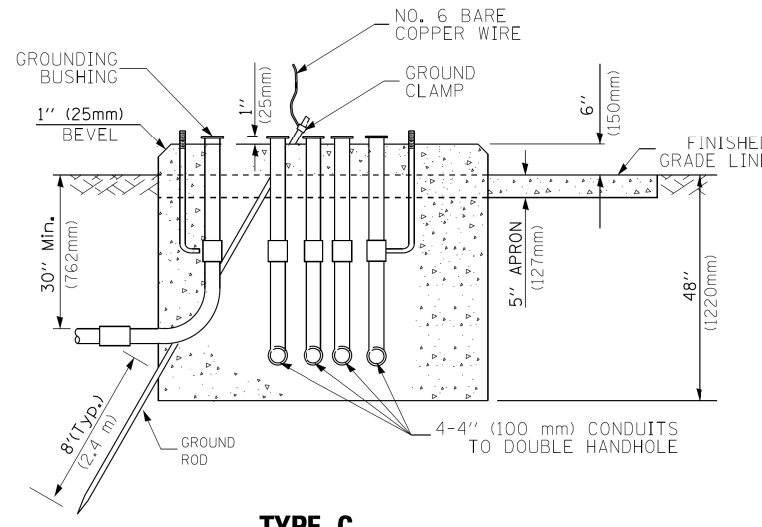
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



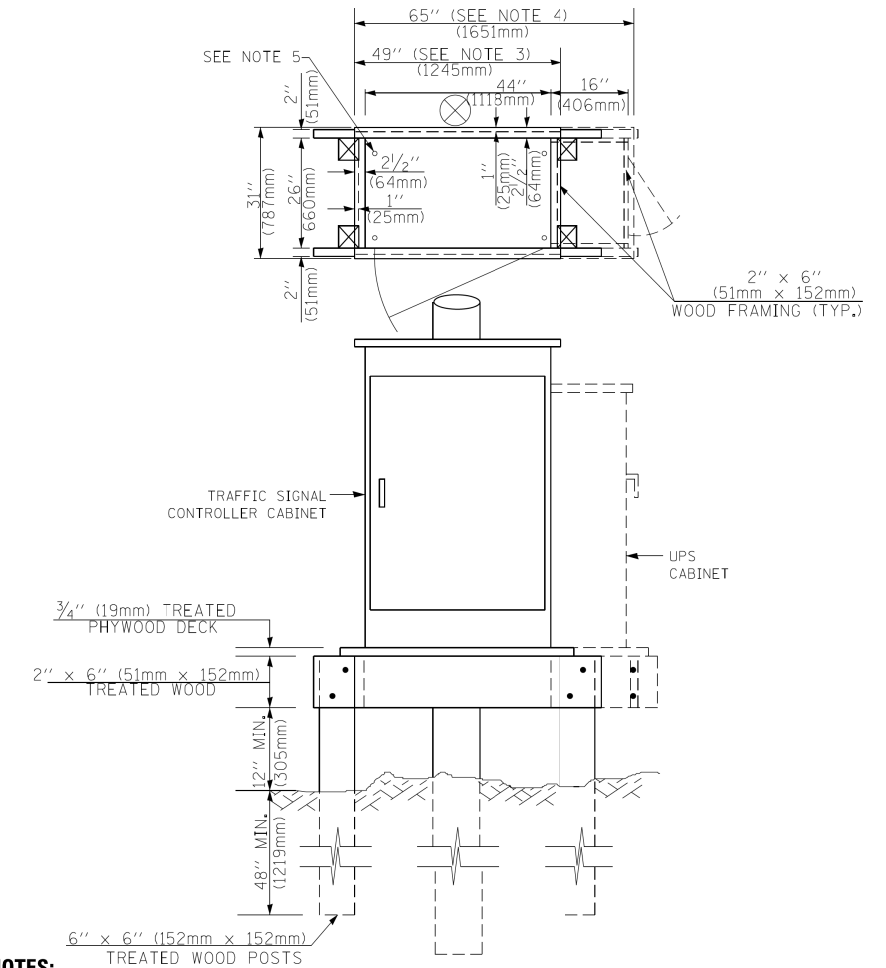
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

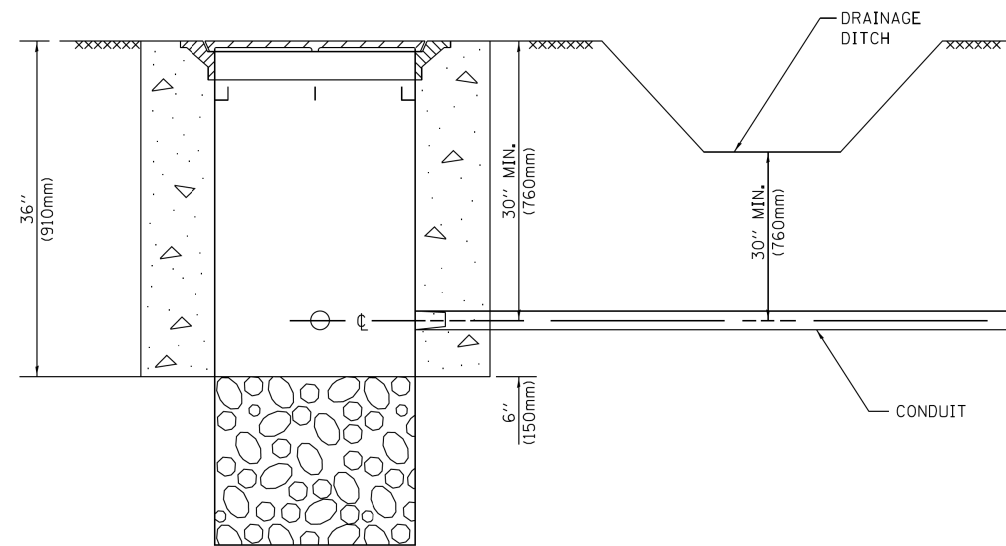
DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

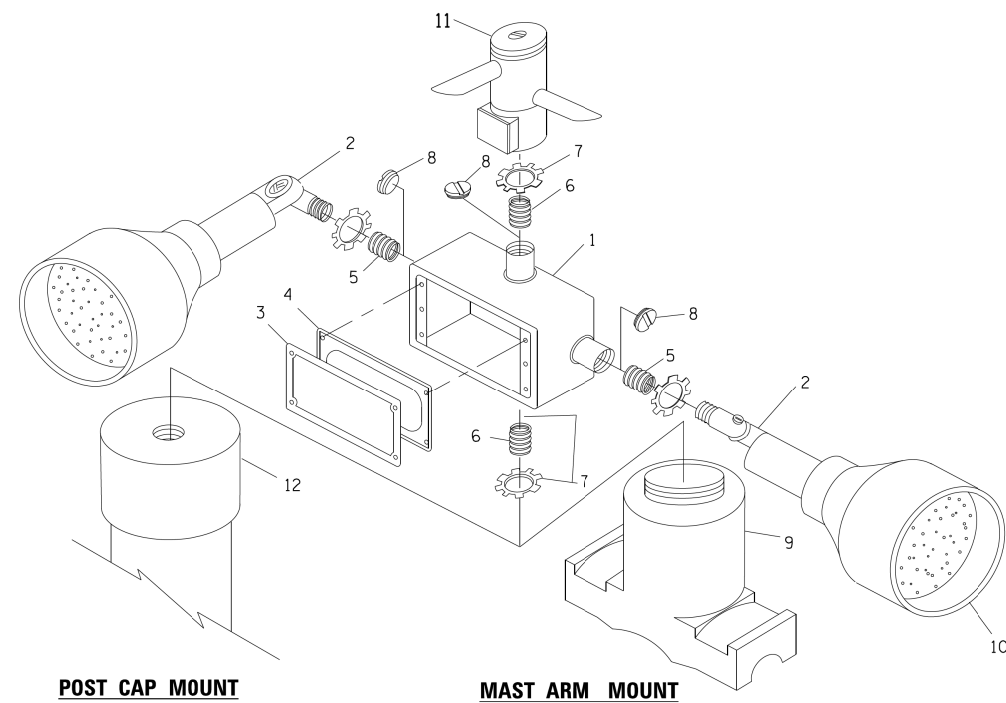
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

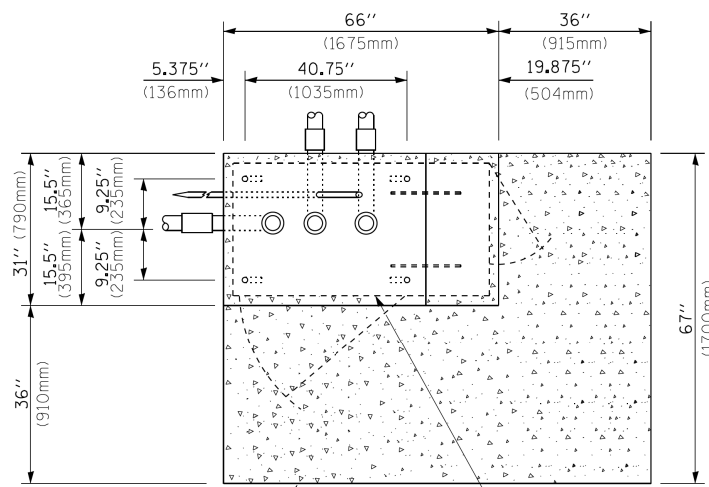
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



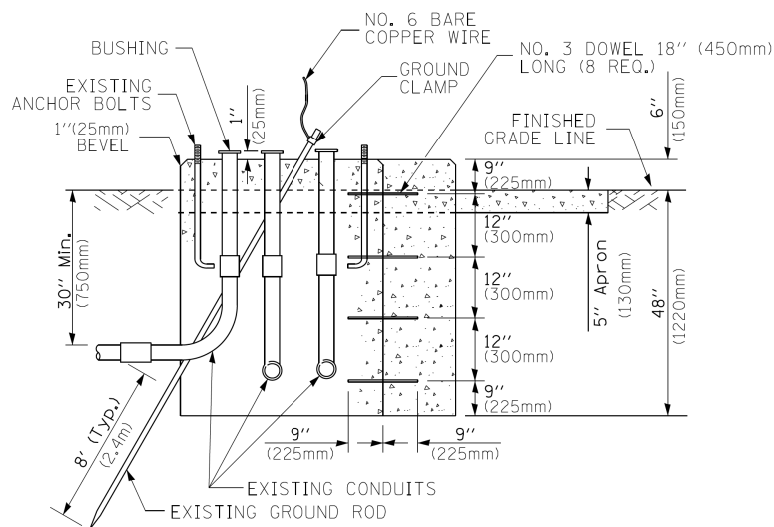
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

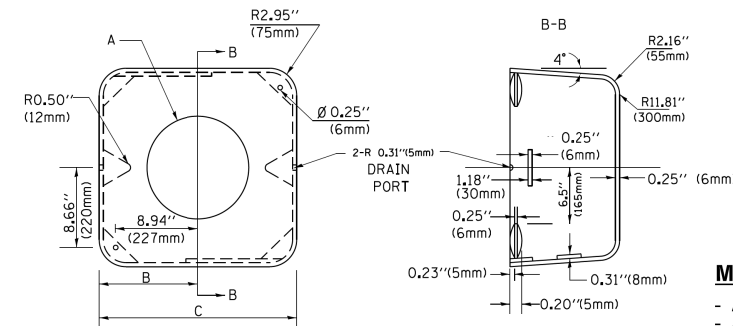


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

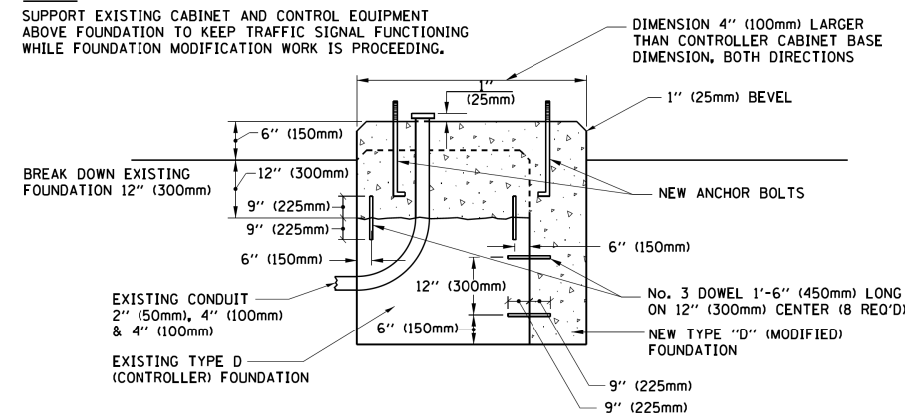
SHROUD

NOTES:

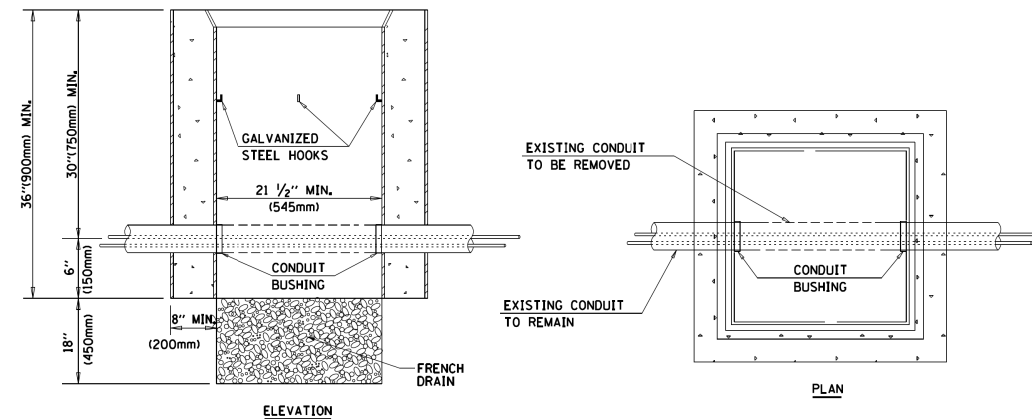
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
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	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

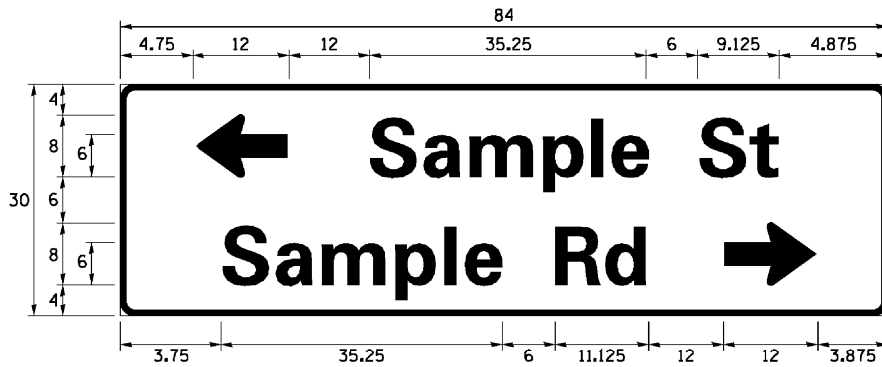
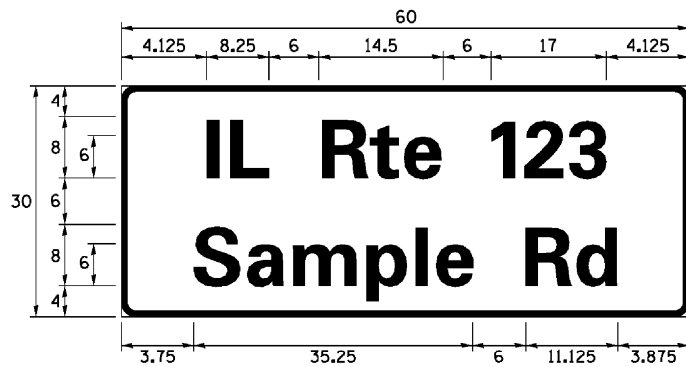
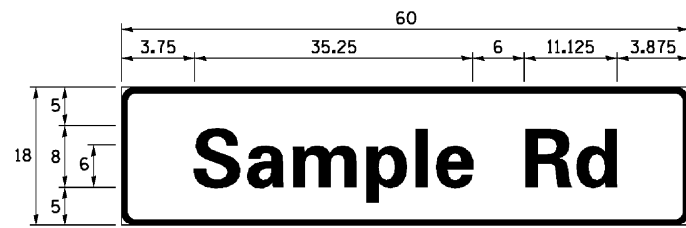
F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 63
TS-05		CONTRACT NO. 6IE47		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2

GENERAL NOTES

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE



- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

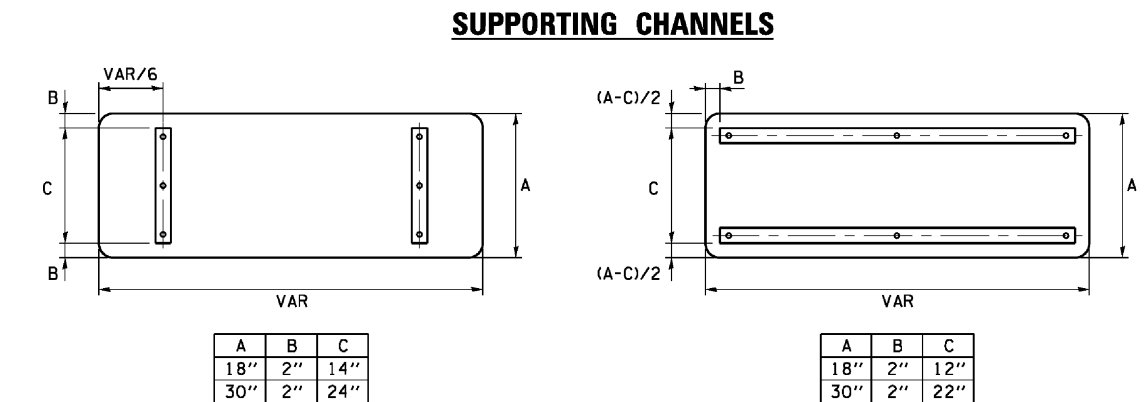
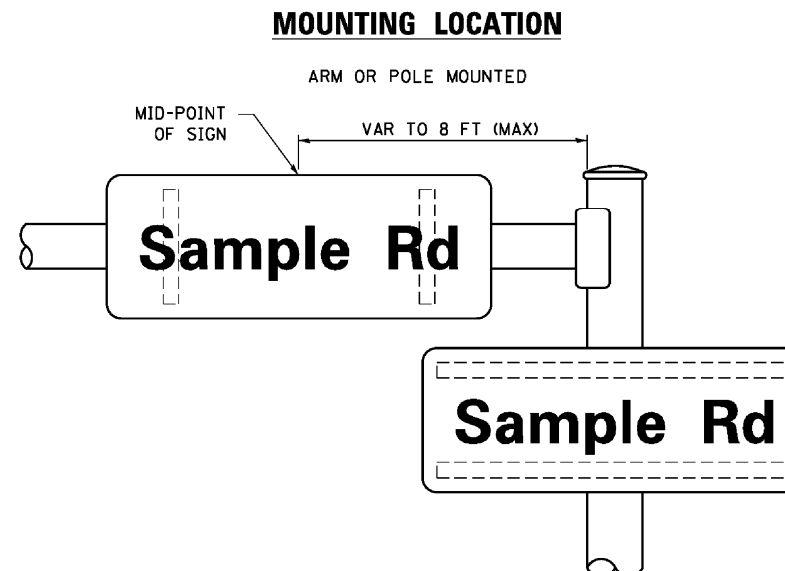
FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Clr	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

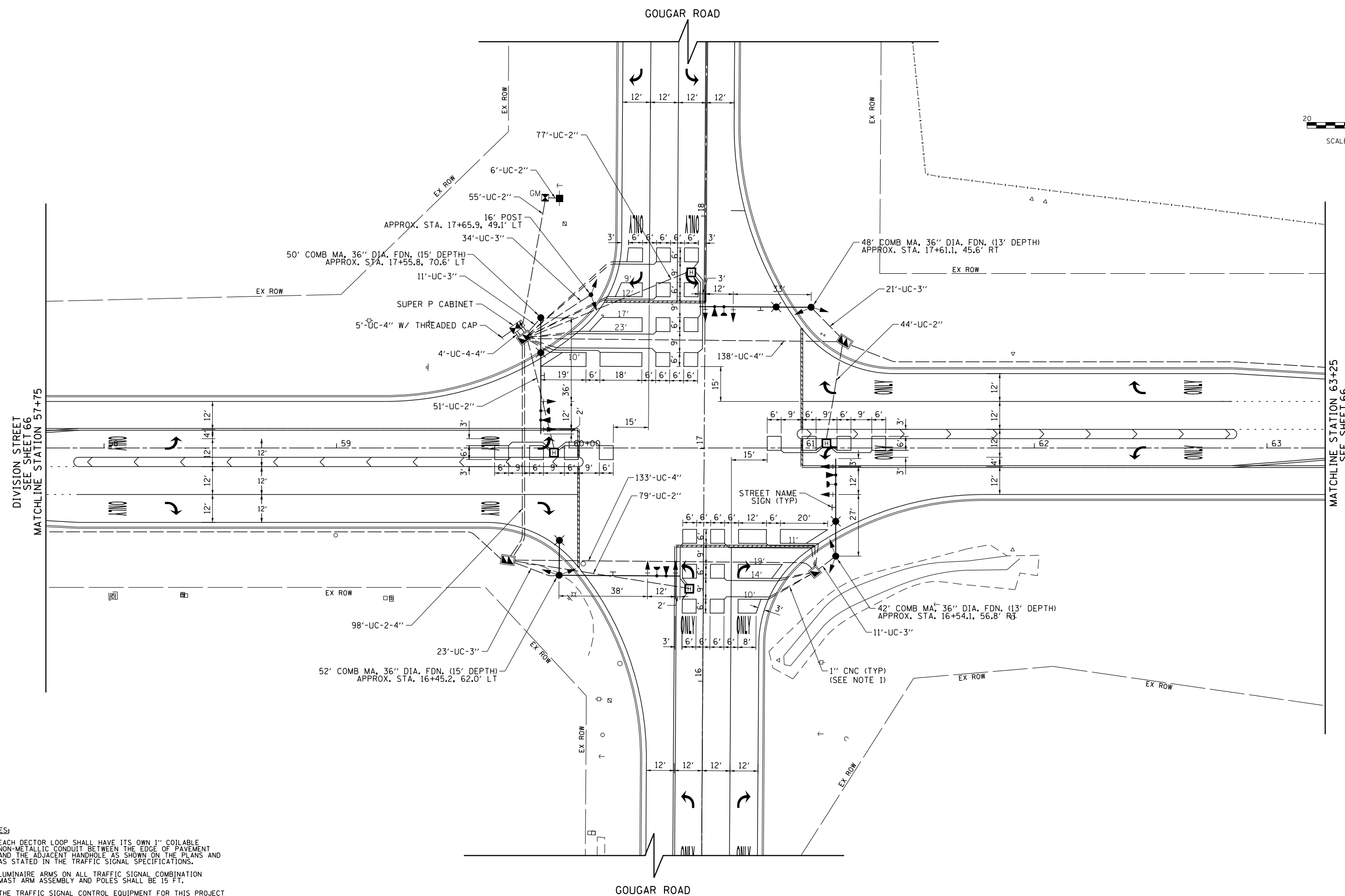
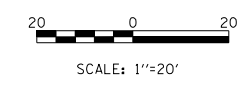


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		CHECKED - IP	REVISED -
		DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

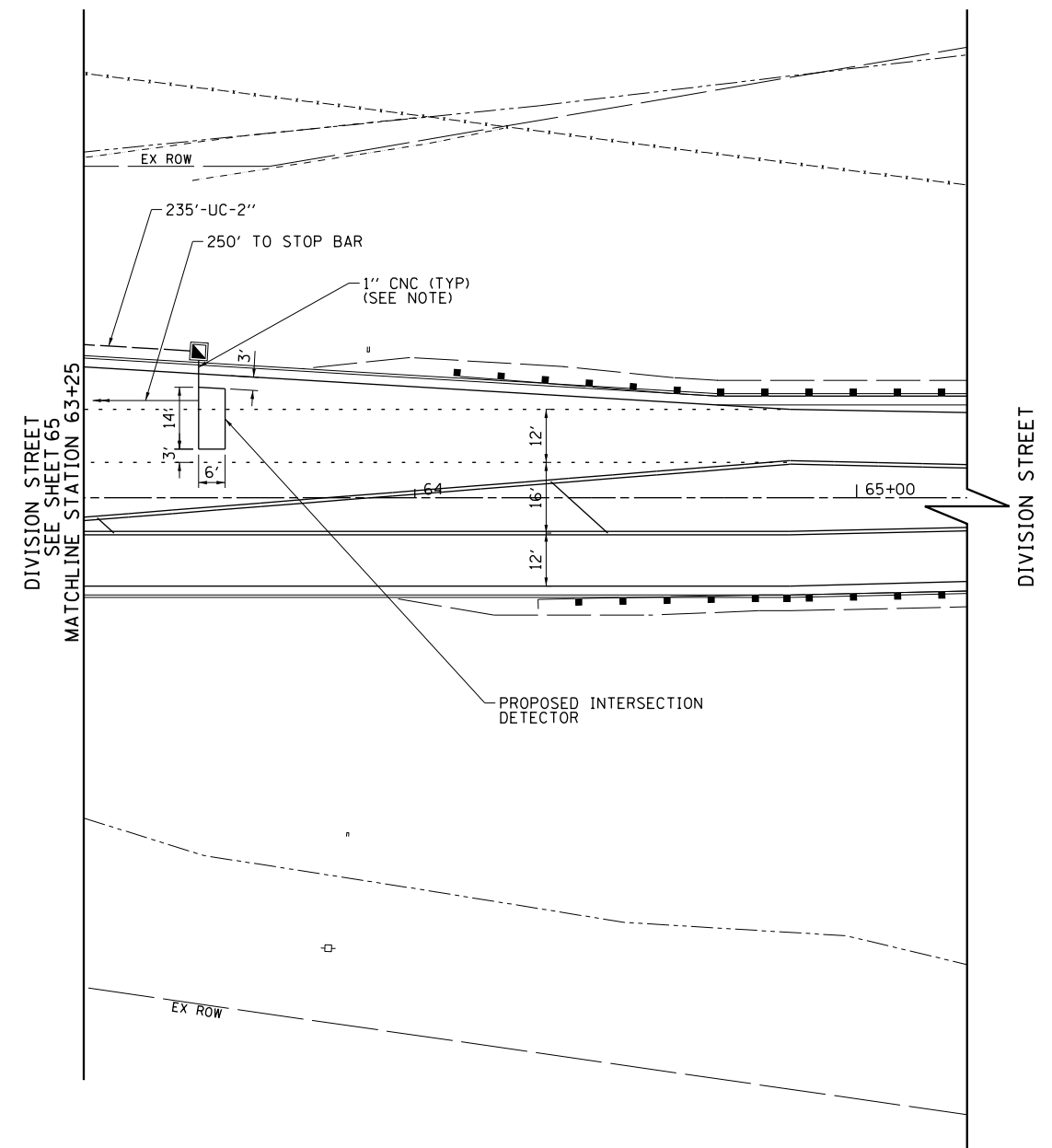
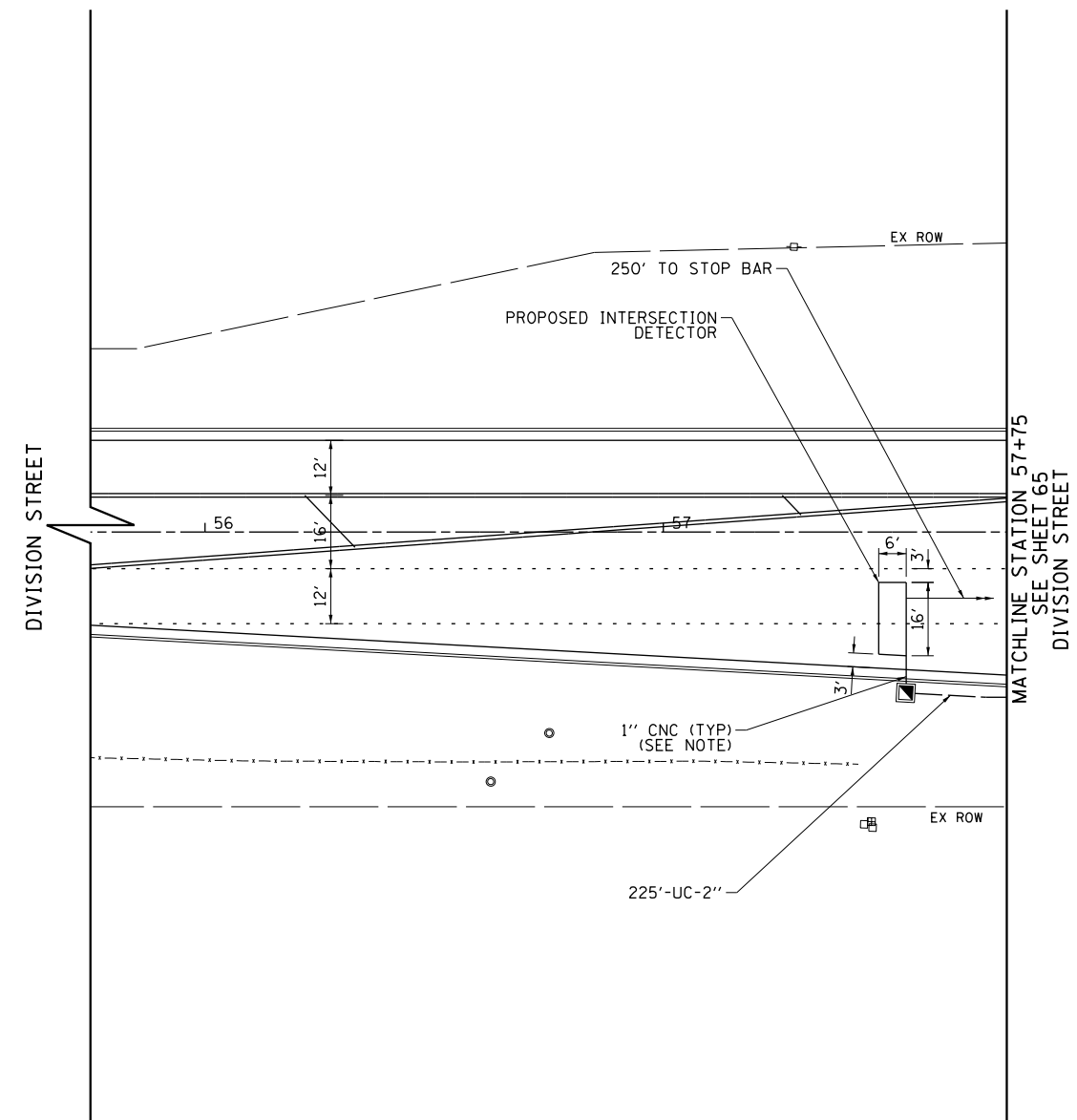
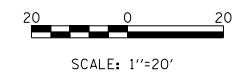
DISTRICT 1
MAST ARM MOUNTED STREET NAME SIGNS
SCALE: NONE SHEET NO. 7 OF 7

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	64
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS PROPOSED TRAFFIC SIGNAL INSTALLATION (1 OF 2)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - NK	REVISED -			291/367	14-00081-00-CH	WILL	103	65	
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -			CONTRACT NO. 61E47					
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

SCALE: 1"=20' SHEET NO. 65 OF 103 SHEETS STA. 58+00 TO STA. 65+00



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
FILEL		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

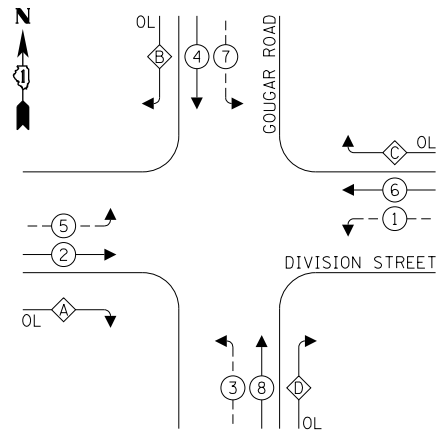
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
PROPOSED TRAFFIC SIGNAL INSTALLATION (2 OF 2)**

SCALE: 1"=20' SHEET NO. 66 OF 103 SHEETS STA. 58+00 TO STA. 65+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	66
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



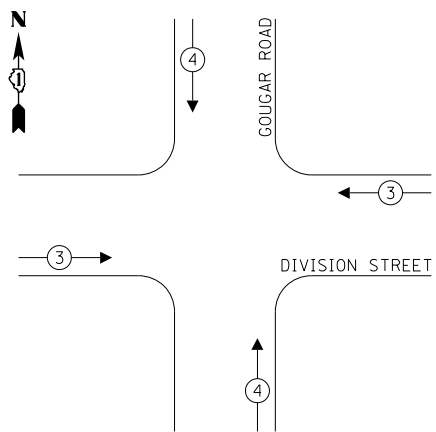
LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ ⊛ → PROTECTED/PERMITTED PHASE
- ← ⊛ ⊛ → PEDESTRIAN PHASE
- ← ⊛ ⊛ → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 +	3
B	= 4 +	5
C	= 6 +	7
D	= 8 +	1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



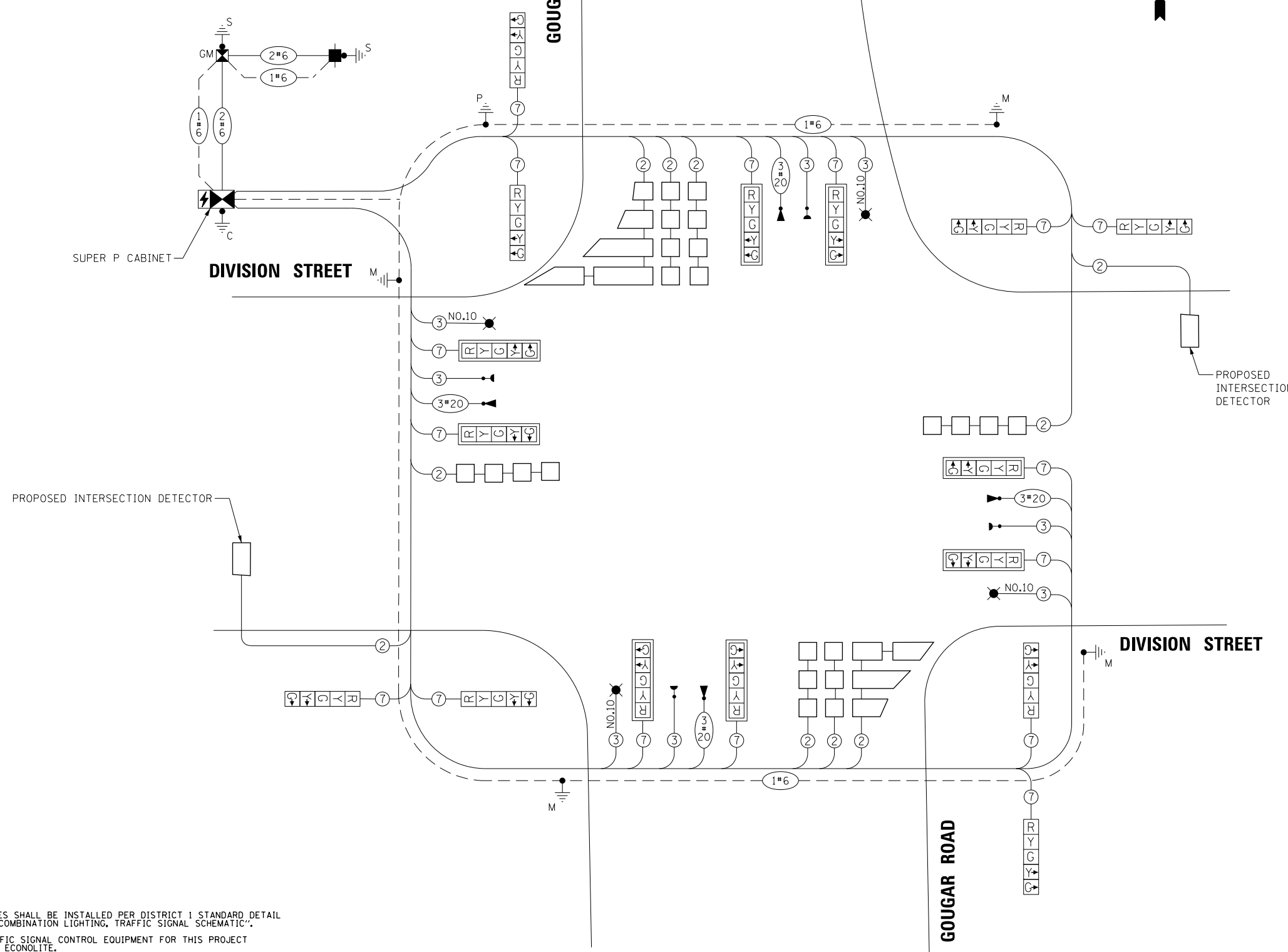
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	INCAND. WATTAGE	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20		11	50	110
(YELLOW)	20		20	5	20
(GREEN)	20		12	45	108
ARROW	32		10	10	32
PED. SIGNAL	-		20	100	-
CONTROLLER	1		100	100	100.0
UPS	1		25	100	25.0
VIDEO SYSTEM	-		150	100	-
BLANK-OUT SIGN	-		25	5	-
FLASHER	-		-	50	-
STREET NAME SIGN	-		120	50	-
LUMINAIRE	4		250	50	500
TOTAL =					895

ENERGY COSTS TO:

CITY OF LOCKPORT
17112 PRIME BOULEVARD
LOCKPORT, IL 60441-3497

ENERGY SUPPLY: CONTACT: TBD
PHONE: TBD
COMPANY: COMED
ACCOUNT NUMBER: ---



NOTES:

- LUMINAIRES SHALL BE INSTALLED PER DISTRICT 1 STANDARD DETAIL BE-240 "COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC".
- THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE.

CABLE PLAN
(NOT TO SCALE)

FILE NAME =	USER NAME = Mibeering	DESIGNED - NK	REVISED -
FILEL		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DWB	REVISED -
	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

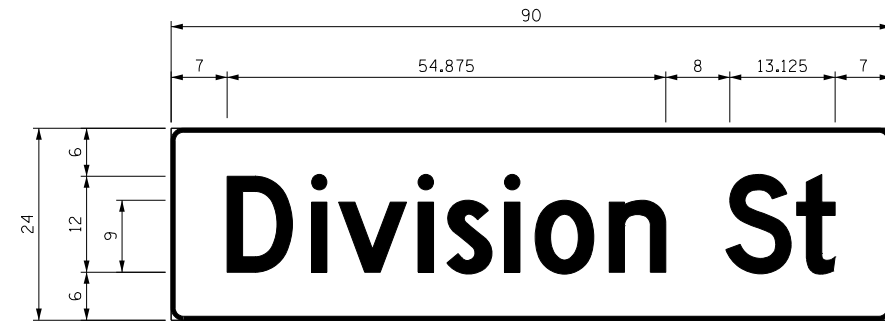
W. 167TH ST/DIVISION ST AND S. GOUGAR RD INTERSECTION IMPROVEMENTS
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

SCALE: N.T.S. SHEET NO. 67 OF 103 SHEETS STA. TO STA.

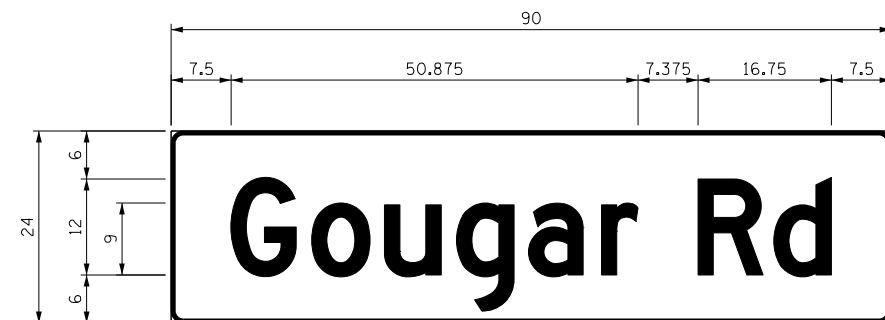
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	67
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15	2	ZZ	2

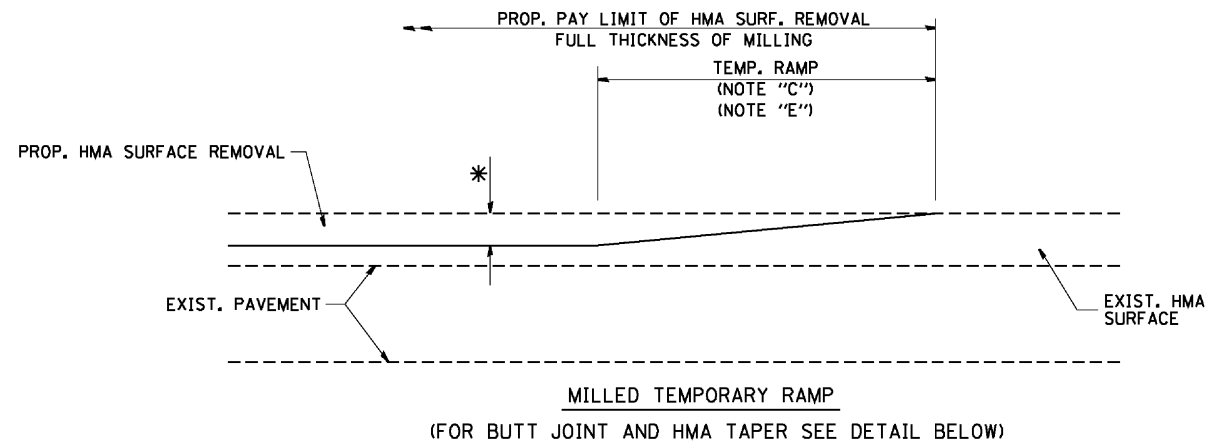


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15	2	ZZ	2

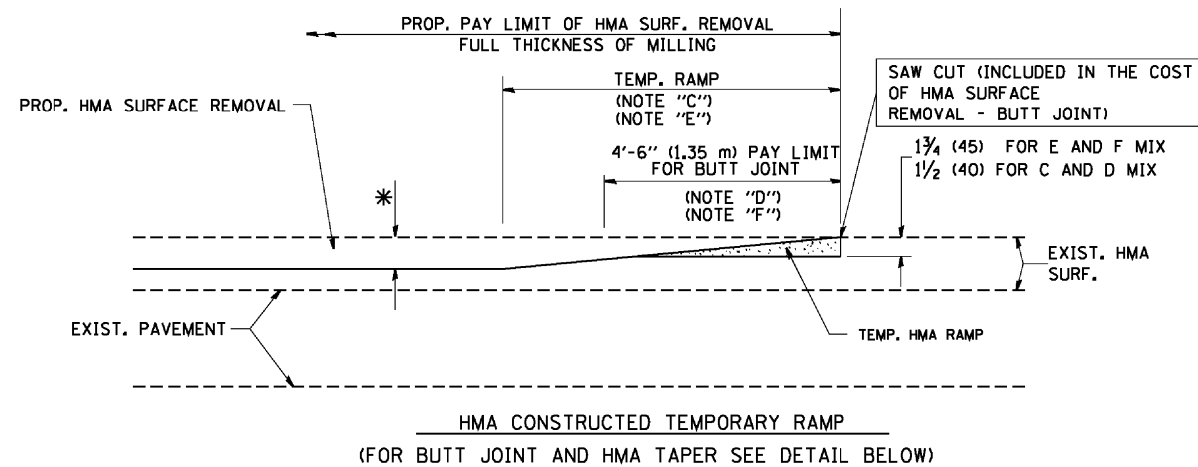
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
SIGN PANEL - TYPE 2	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	772
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	100
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	488
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/2 NO. 10	FOOT	705
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	925
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,996
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,990
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	100
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	767
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	1,428
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	925
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	4
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
SIGNAL TIMING	LSUM	1

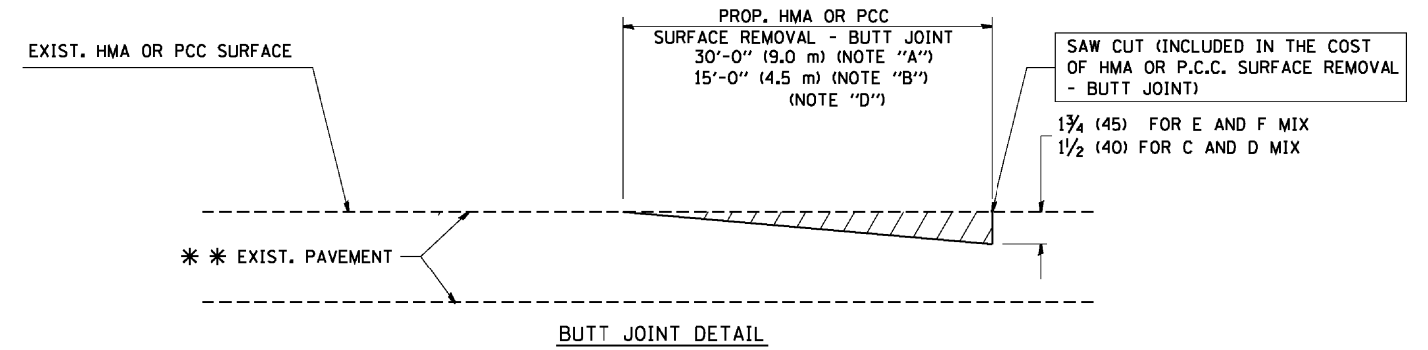


OPTION 1

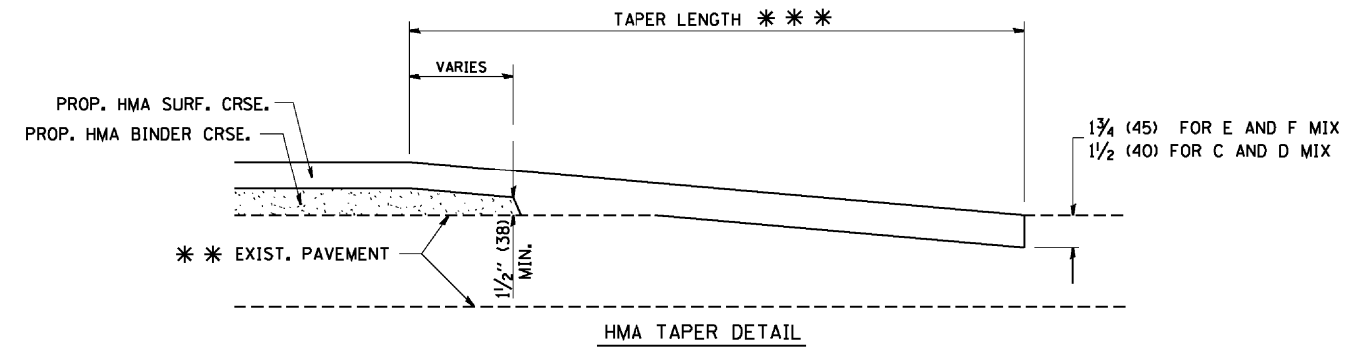


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

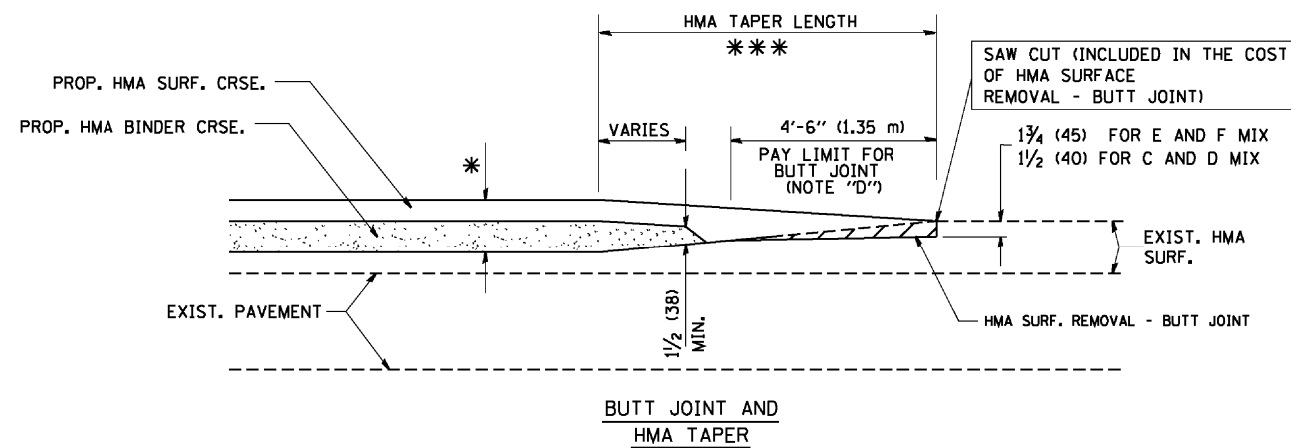
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



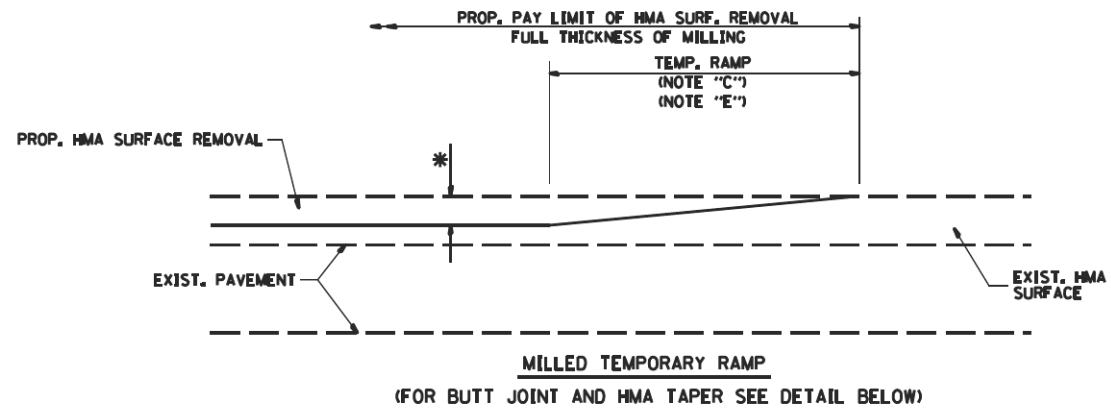
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
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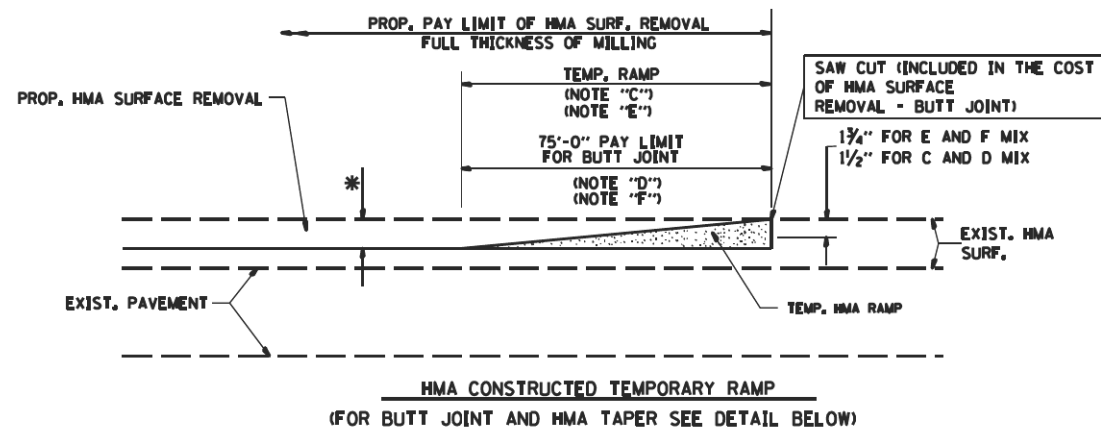
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 70
BD400-05 BD32		CONTRACT NO. 61E47		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

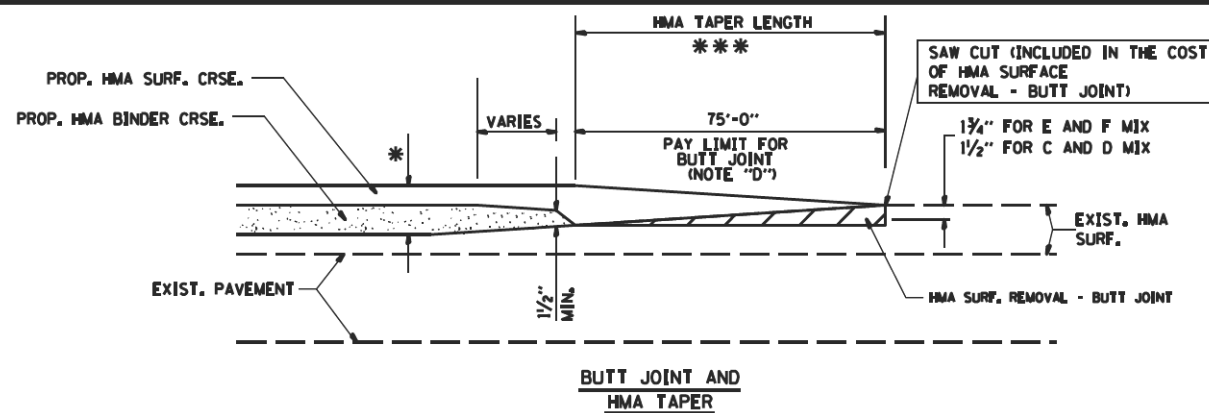


OPTION 1

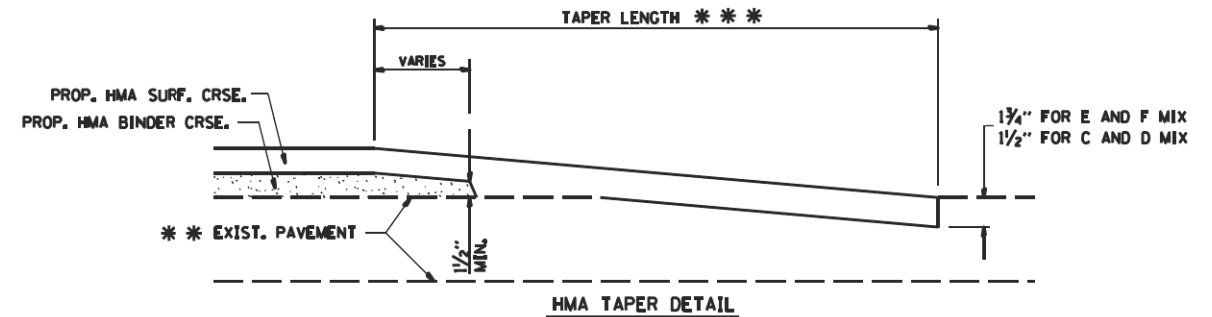
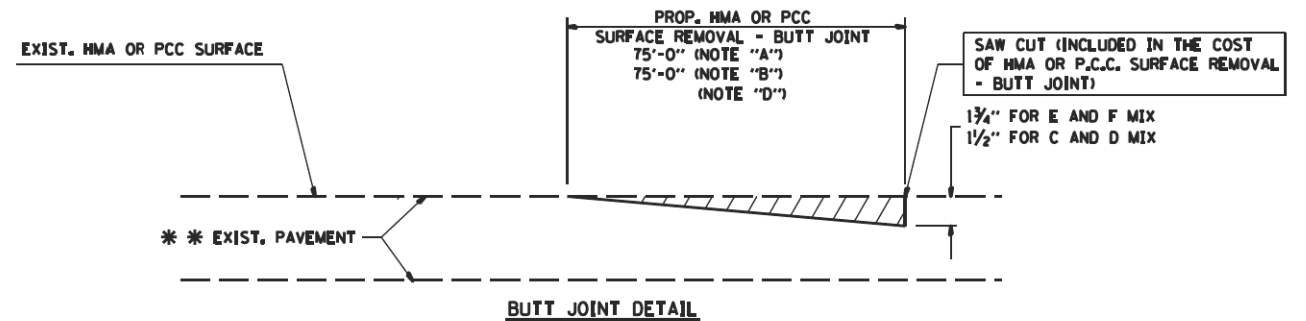


OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A₁ MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B₁ MINOR SIDE ROADS.
- C₁ THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D₁ THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E₁ TAPER THE TEMP. RAMP AT A RATE OF 50'-0" PER 1 INCH OF MILLING THICKNESS.
- F₁ INSTALLATION AND REMOVAL OF THE 30'-0" TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G₁ SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 50'-0" PER 1" RESURFACING (NOTE "A")
50'-0" PER 1" RESURFACING (NOTE "B")

BASIS OF PAYMENT₁

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

WC-00406



WILL COUNTY
DIVISION OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAIL

DATE	REVISIONS
6/22/2015	STANDARD CREATED

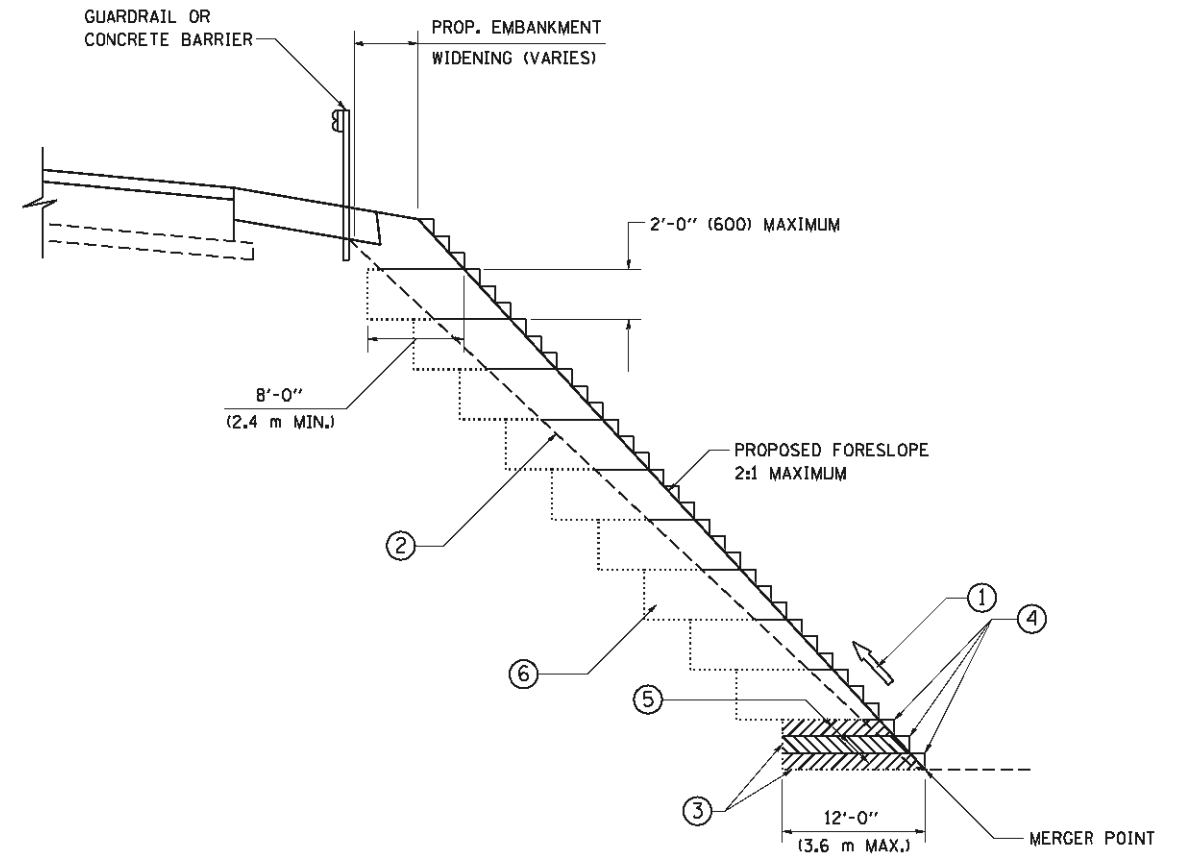
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	PLOT DATE = 2/6/2018	DATE - 02-06-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILL COUNTY DOT
BUTT JOINT AND HMA TAPER DETAILS

SCALE: SHEET NO. OF 103 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	71
CONTRACT NO. 61E47				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

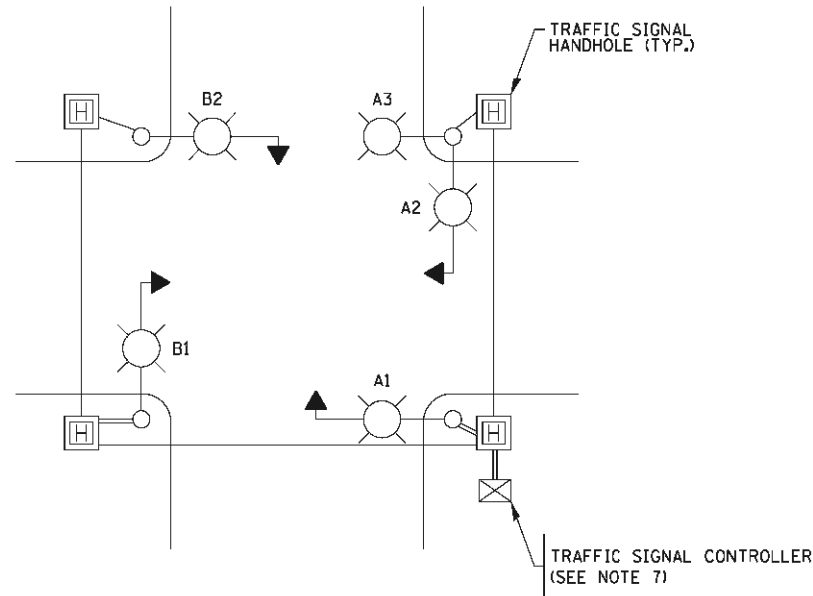
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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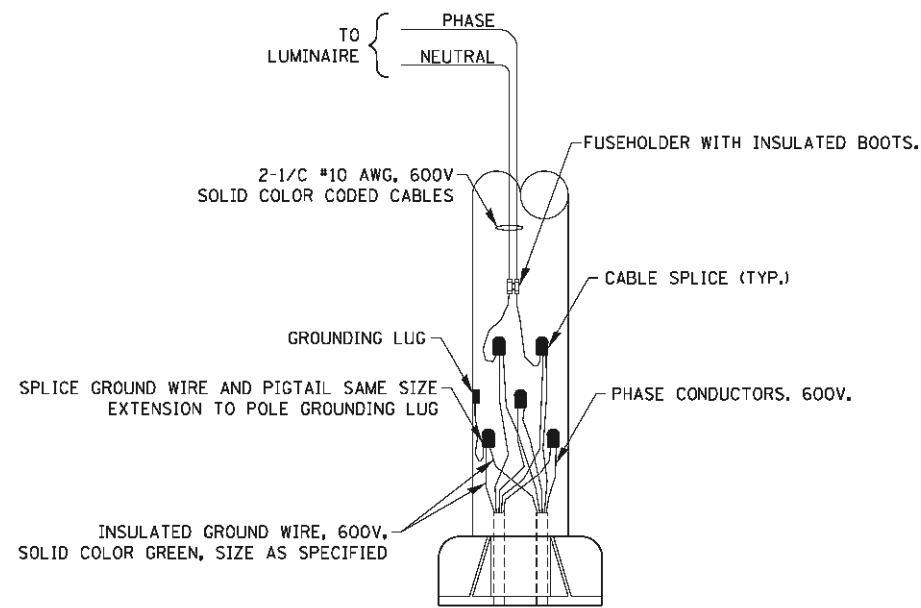
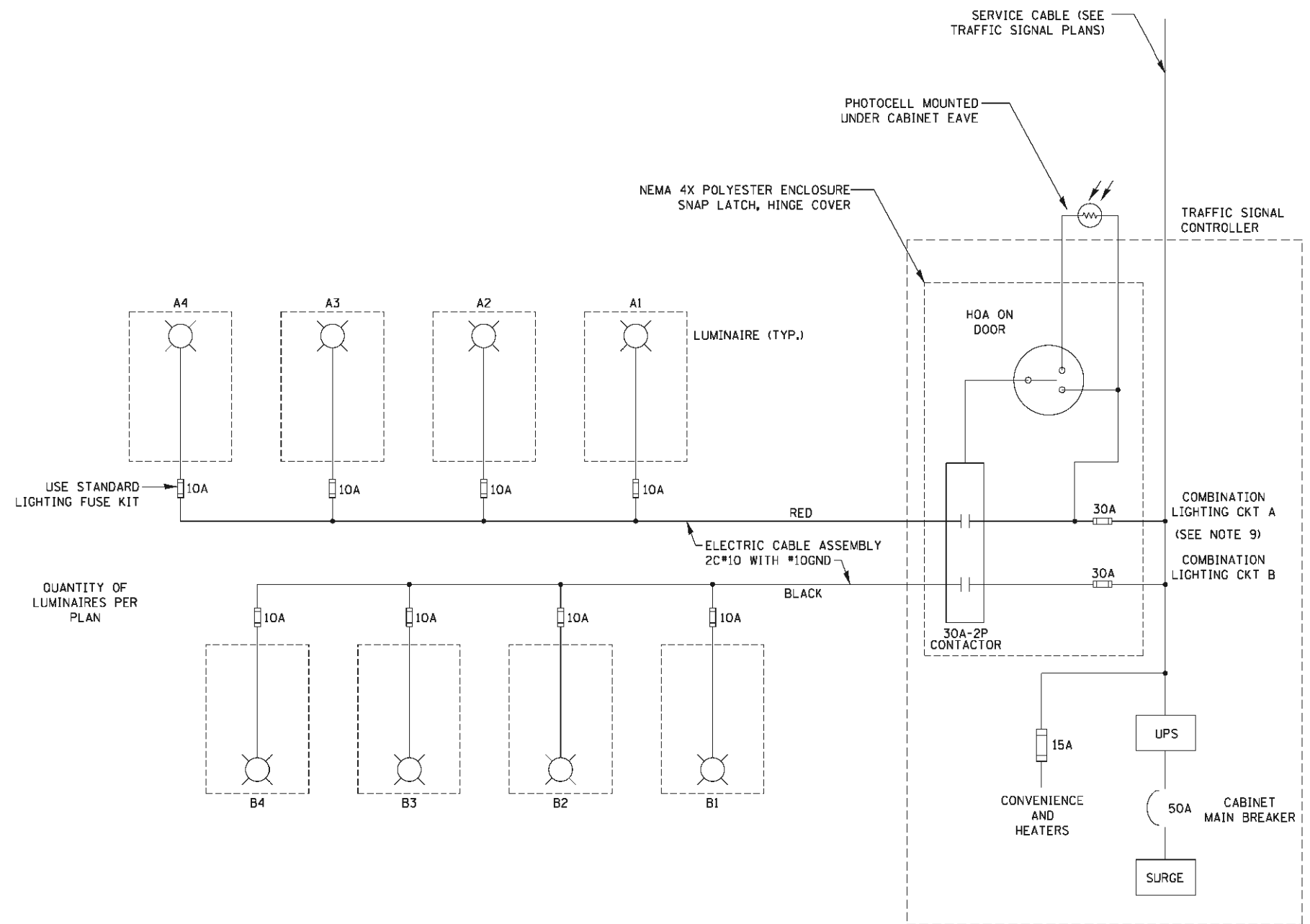
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL FOR EMBANKMENT WIDENING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	72
BD-51		CONTRACT NO. 61E47		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES:

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. RECORD DRAWING SHALL INCLUDE:
 - TRAFFIC SIGNAL PLAN SHEET(S)
 - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
 - LIGHTING PLANS
 - THIS DETAIL
8. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
9. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT

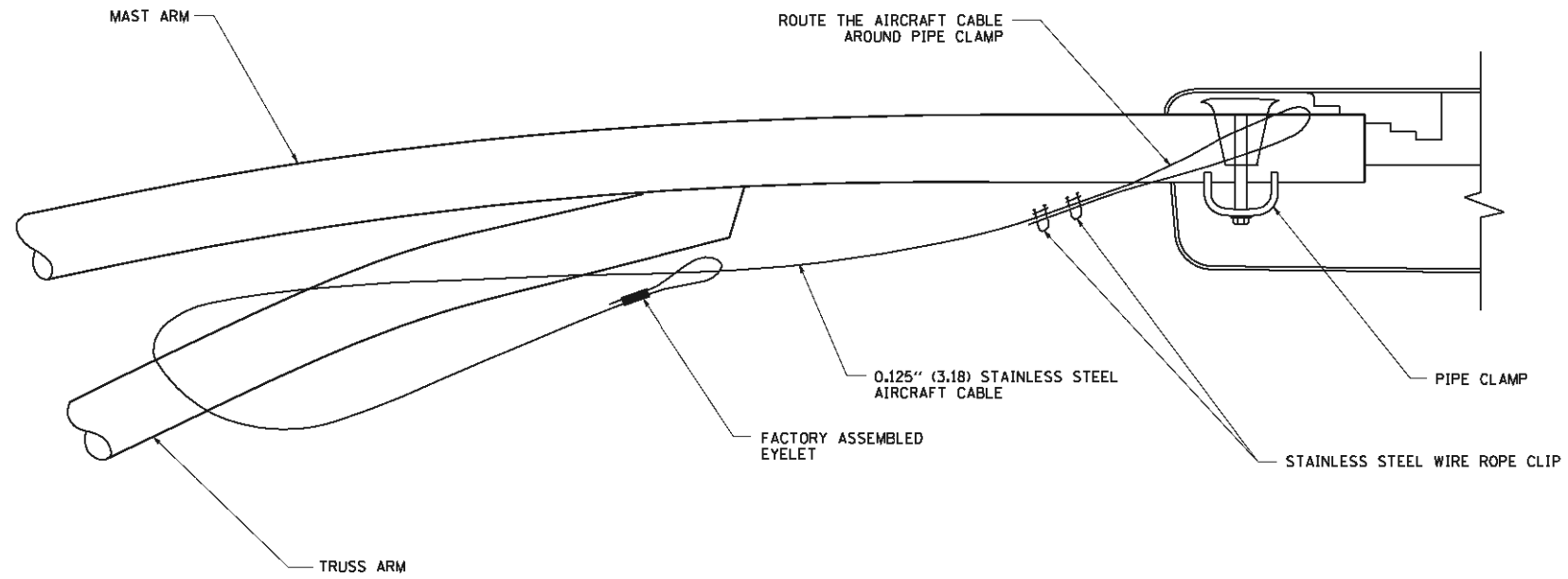
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		DRAWN -	REVISED - 10/13/2015
		CHECKED - RT	REVISED - T.G. 4/12/2017
		DATE - 08/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

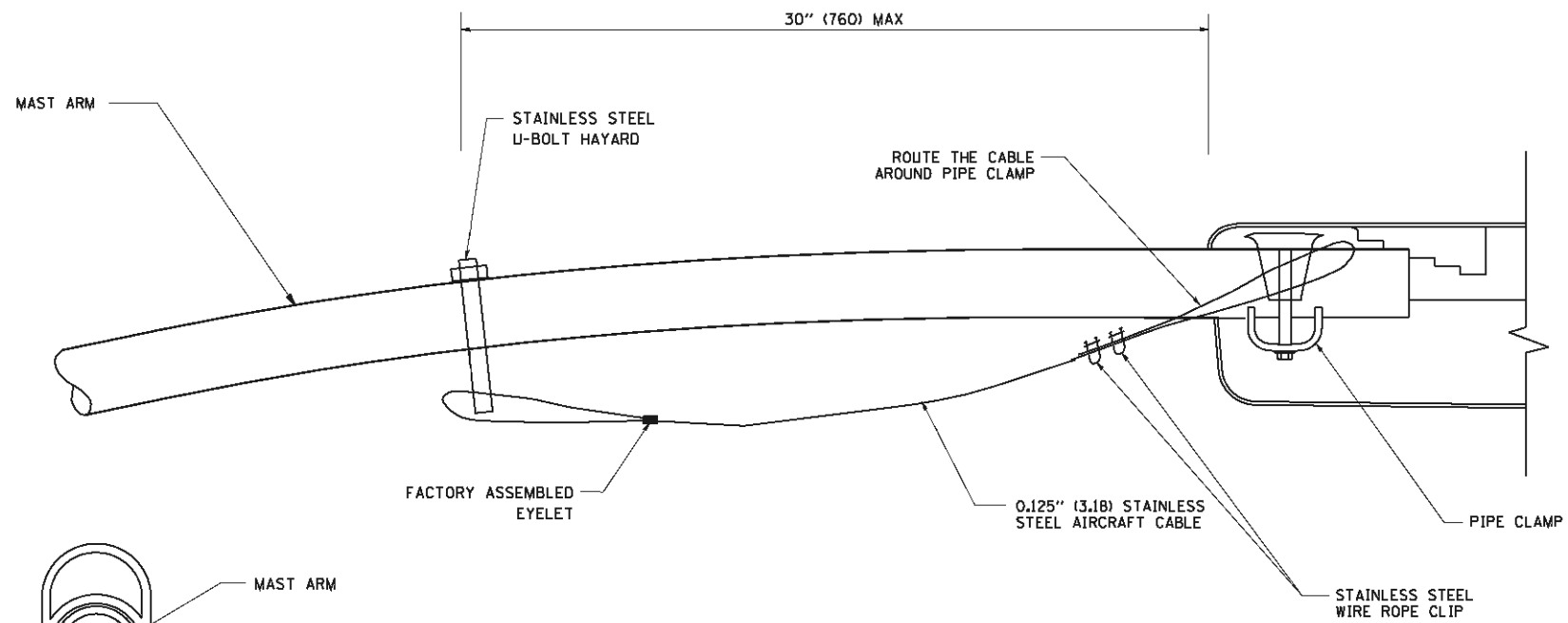
COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

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

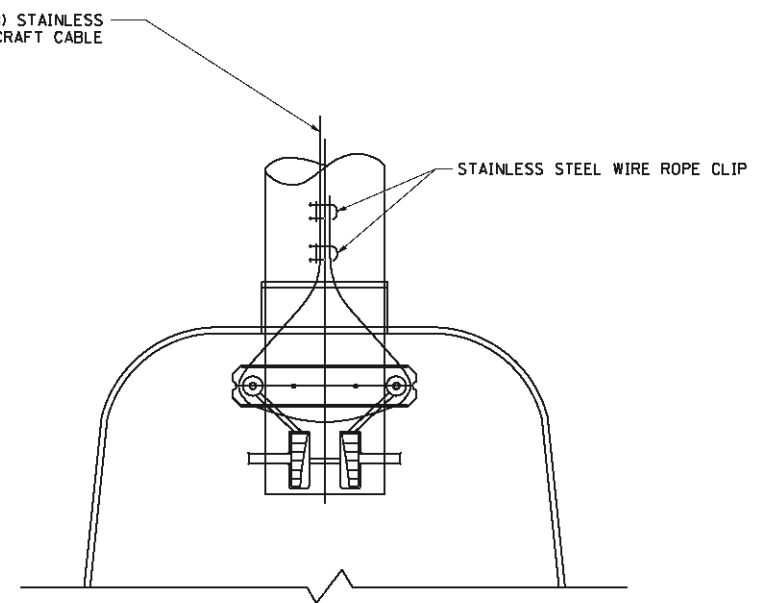
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BE-240		CONTRACT NO. 61E47		
ILLINOIS FED. AID PROJECT				



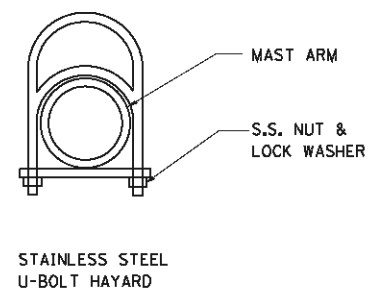
SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.

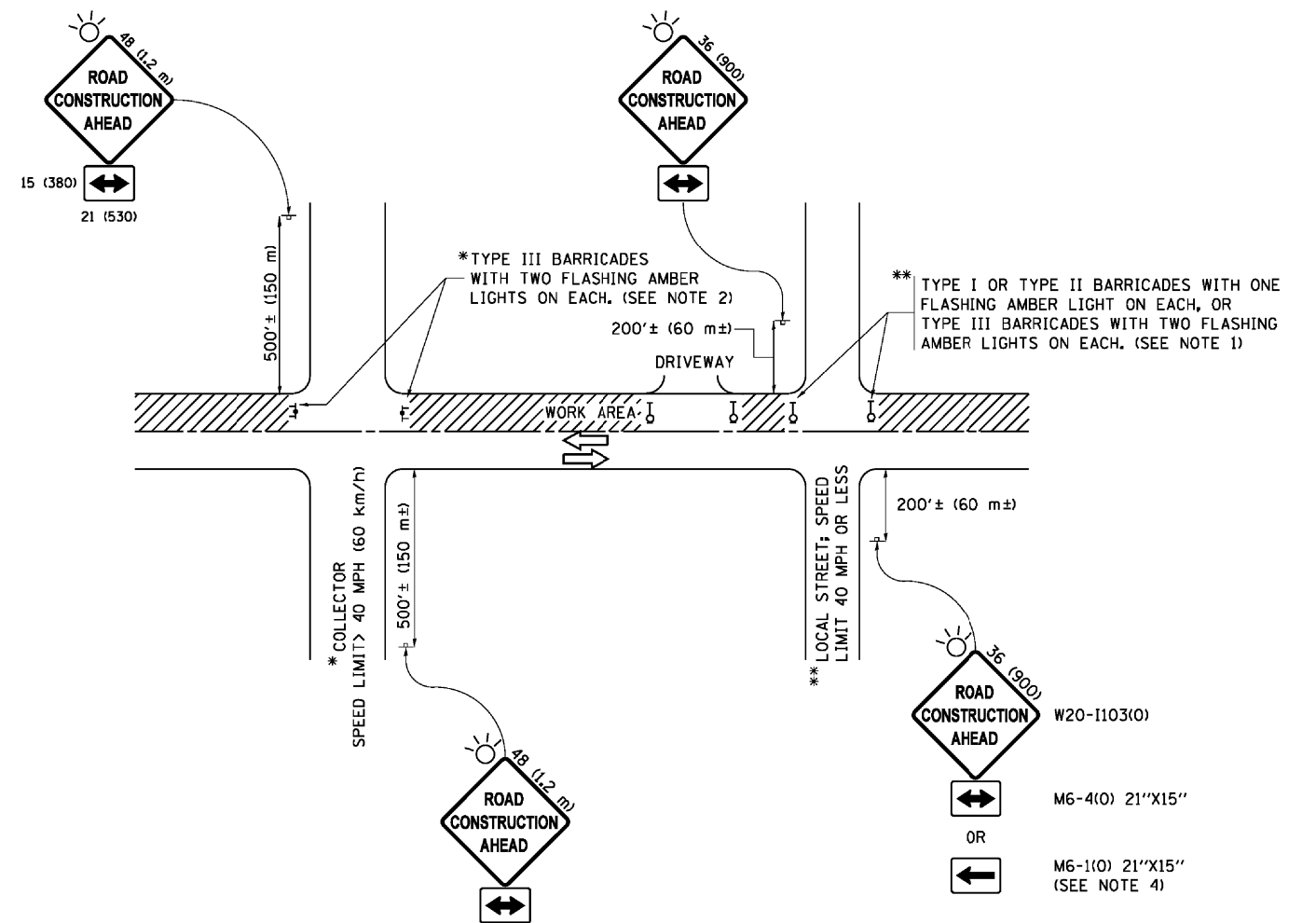


BOTTOM VIEW
N.T.S.



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = W:\d\stet\22x34\be701.dgn	USER NAME = geglanobt	DESIGNED - DRAWN -	REVISED - 08-08-03 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A.U. RTE. 291/367	SECTION 14-00081-00-CH BE-701	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 74
PLOT SCALE = 50.000' / IN.		CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 61E47		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
PLOT DATE = 1/4/2008		DATE -	REVISED -									



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

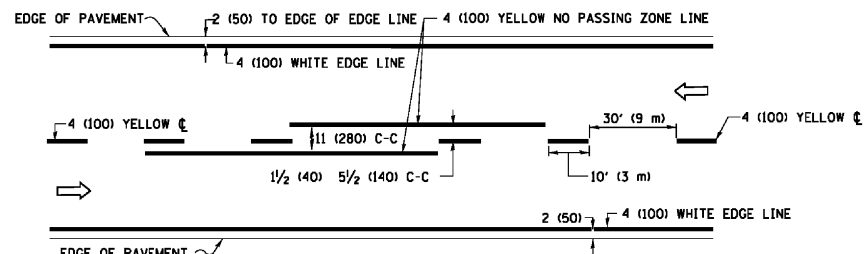
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

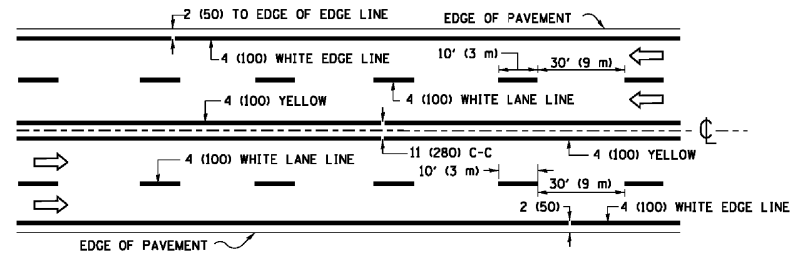
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

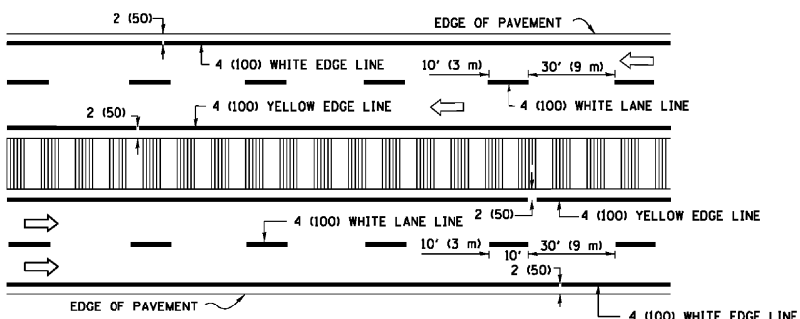
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	75
TC-10			CONTRACT NO. 61E47	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

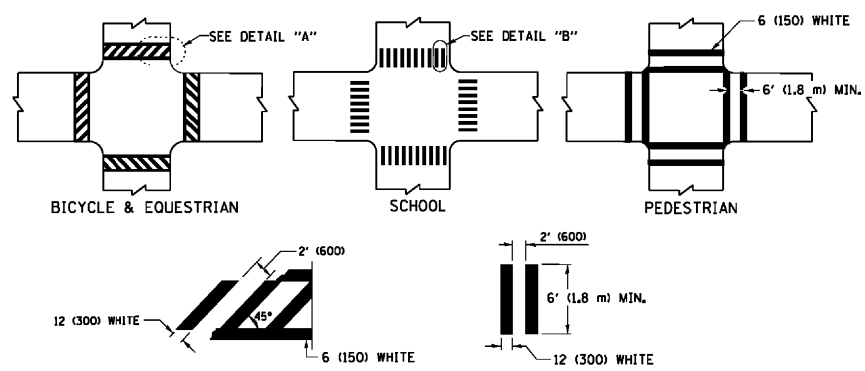


MULTI-LANE UNDIVIDED



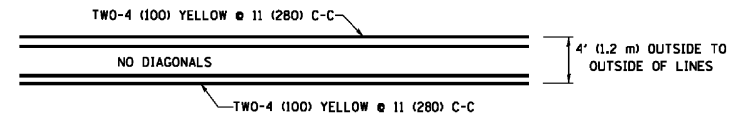
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

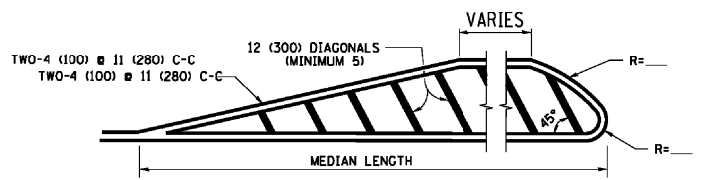


TYPICAL CROSSWALK MARKING

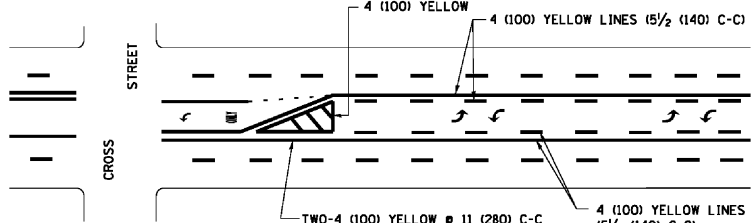
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



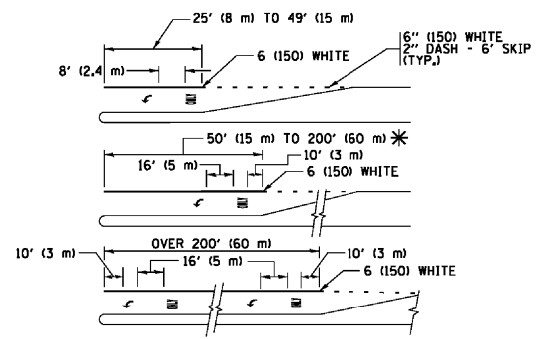
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



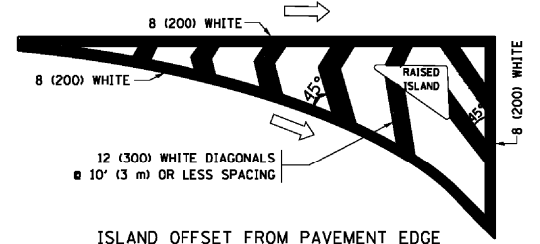
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



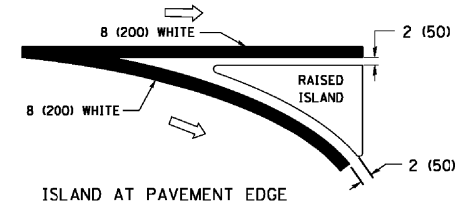
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

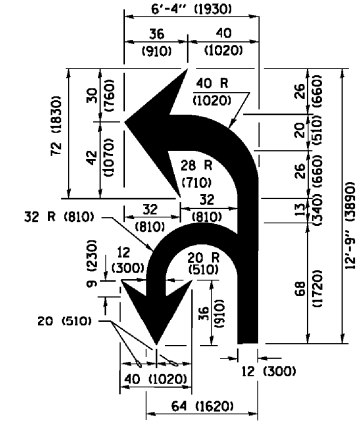
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



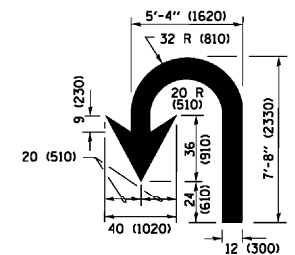
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

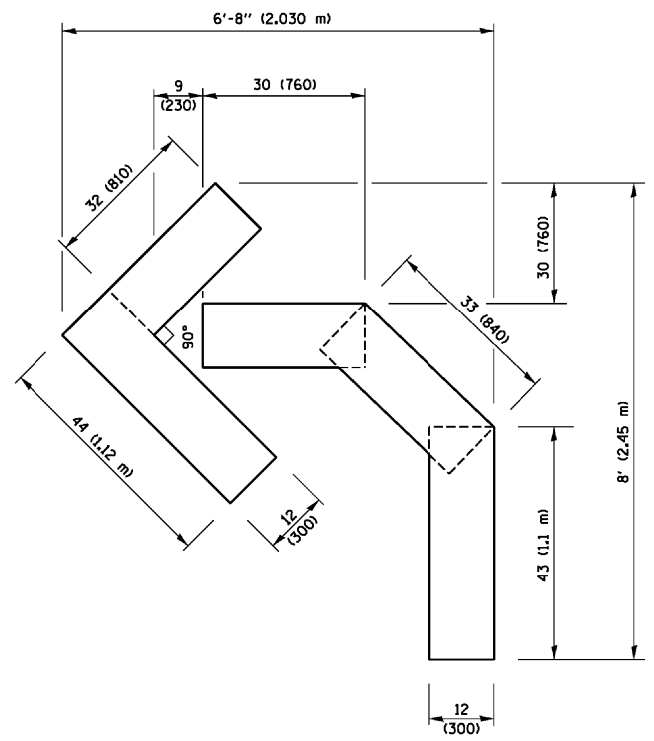
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Default	PLOT SCALE = 50.000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 4/13/2016		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

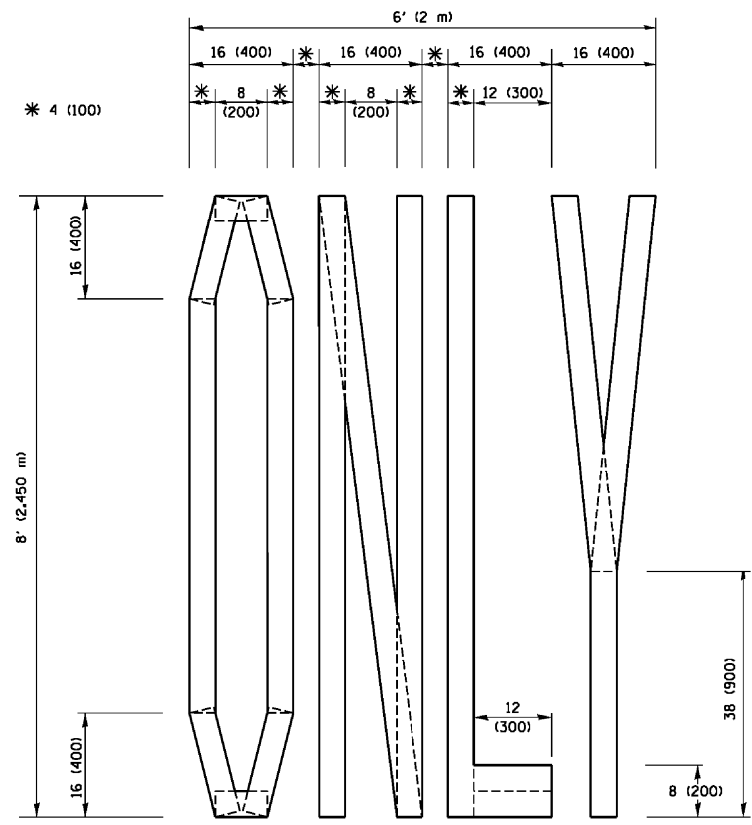
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

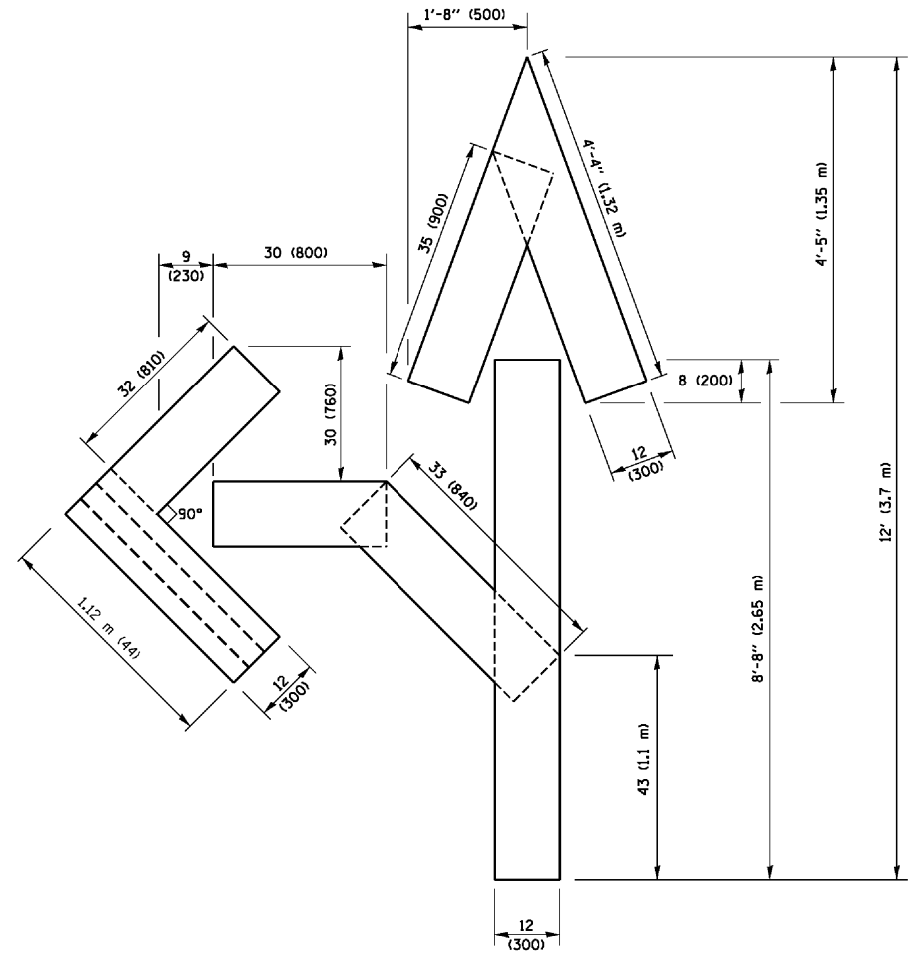
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	76
TC-13			CONTRACT NO. 61E47	
ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

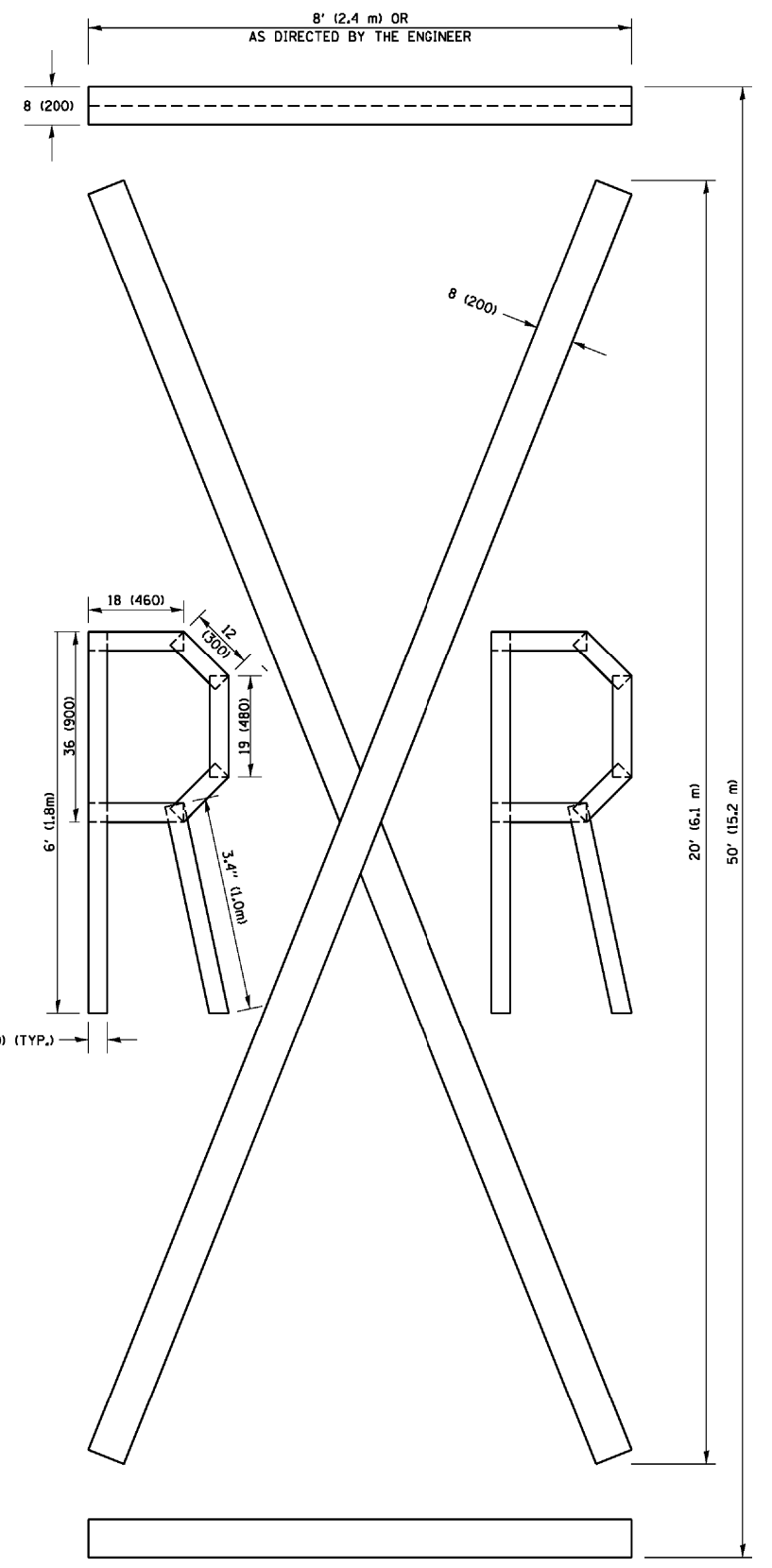


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

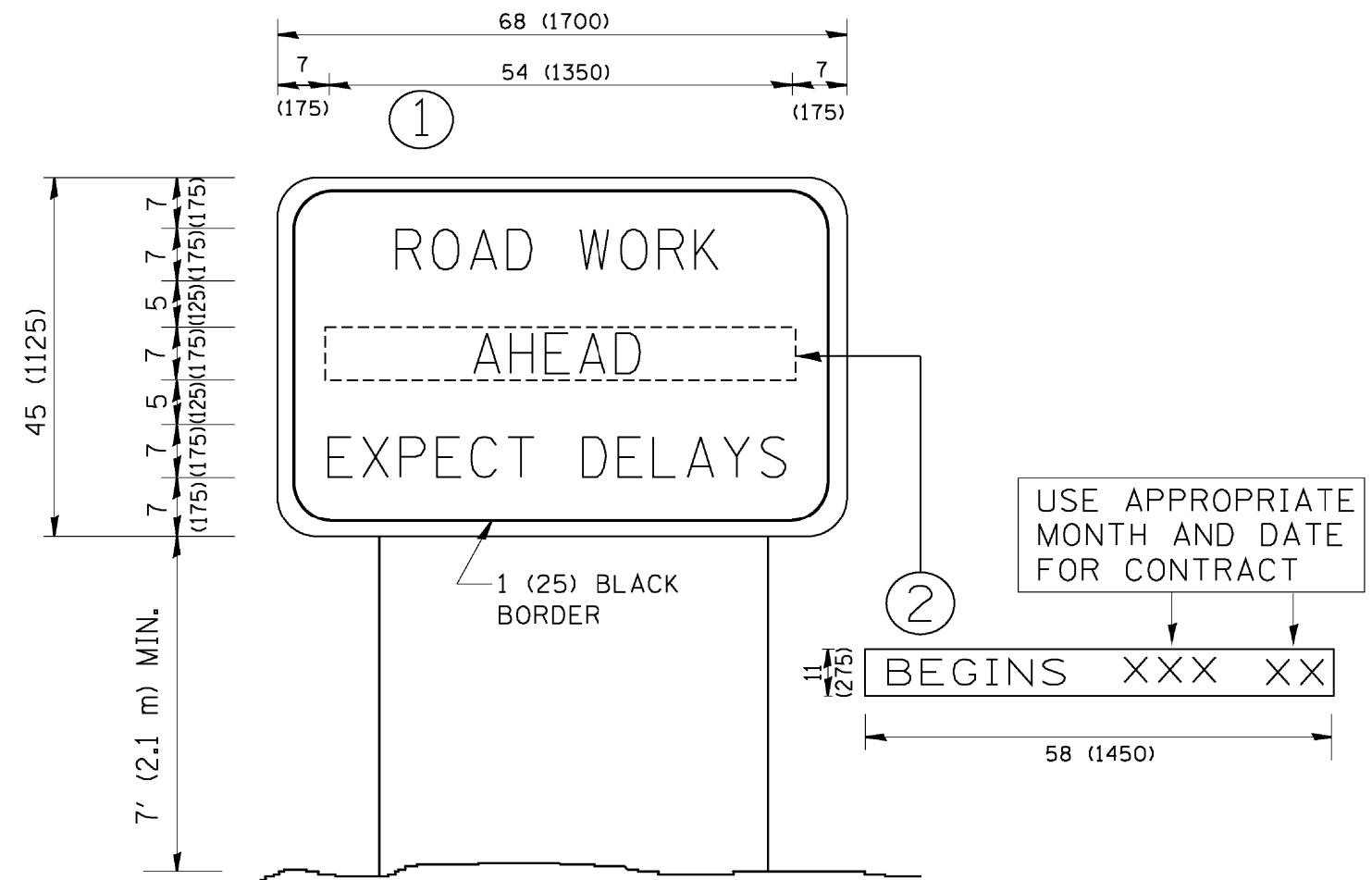
All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT SCALE = 5/8" = 1'		CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 9/15/2016		DATE -	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	77
TC-16			CONTRACT NO. 61E47	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geg1enobt	DESIGNED - DRAWN -	REVISED - REVISED -
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

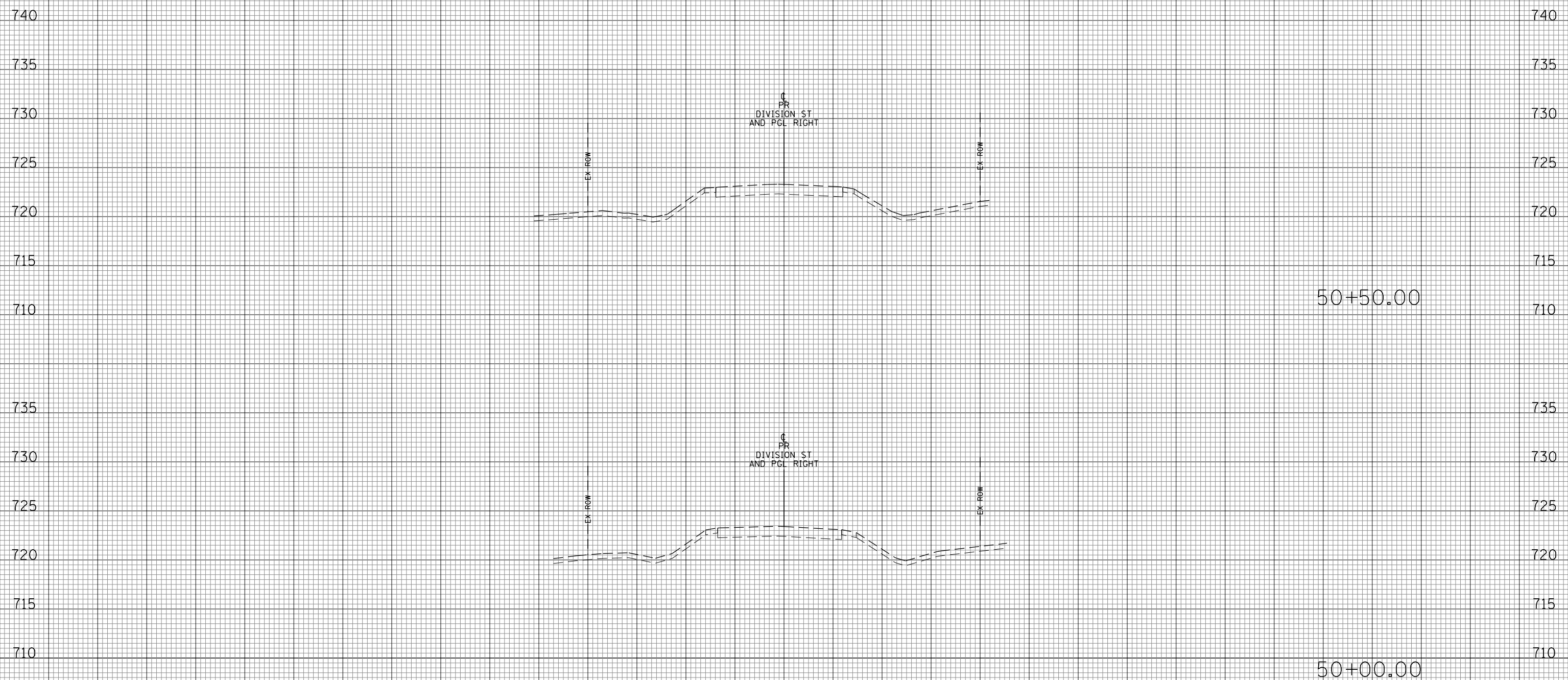
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F.A.U. RTE. 291/367	SECTION 14-00081-00-CH	COUNTY WILL	TOTAL SHEETS 103	SHEET NO. 78
TC-22		CONTRACT NO. 61E47		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

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

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



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

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USER NAME = Mibeering
DESIGNED - MLB
DRAWN - MLB
CHECKED - DWB
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REVISIED -
REVISIED -
REVISIED -
REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

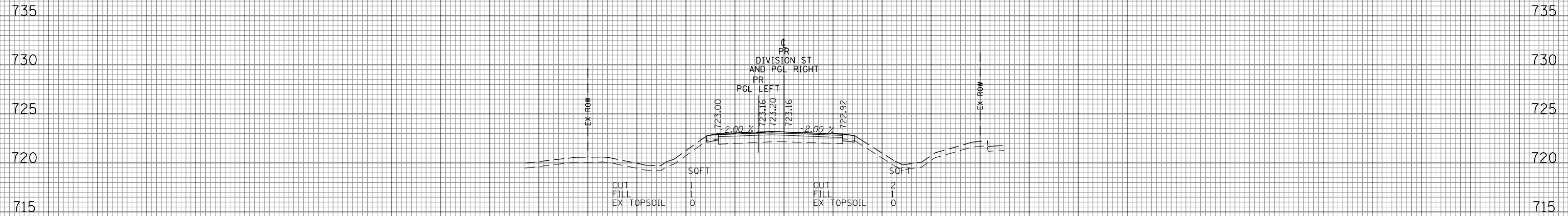
W. 167TH ST DIVISION ST CROSS SECTIONS

SCALE: 10H:5V SHEET NO. 79 OF 103 SHEETS STA. 50+00.00 TO STA. 50+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61E47			ILLINOIS FED. AID PROJECT	

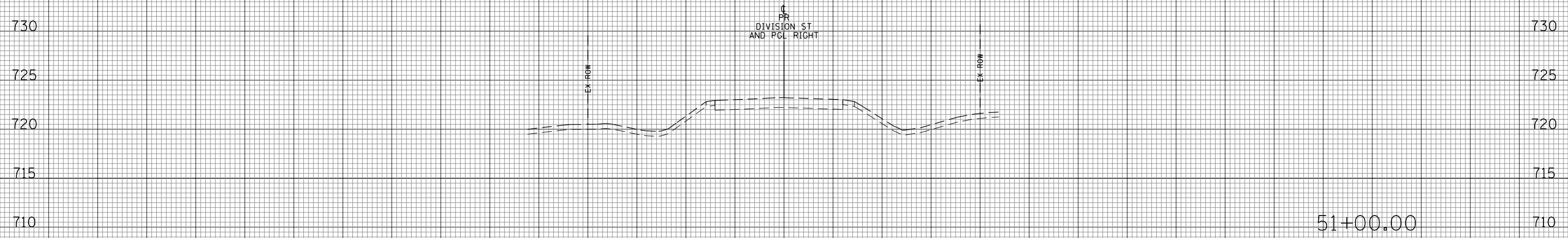
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



51+19.02
AHEAD ONLY

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



51+00.00

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FILE NAME =
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USER NAME = Mibeering
DESIGNED - MLB
DRAWN - MLB
CHECKED - DWB
DATE - 02-06-2018

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REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

W. 167TH ST/DIVISION ST CROSS SECTIONS

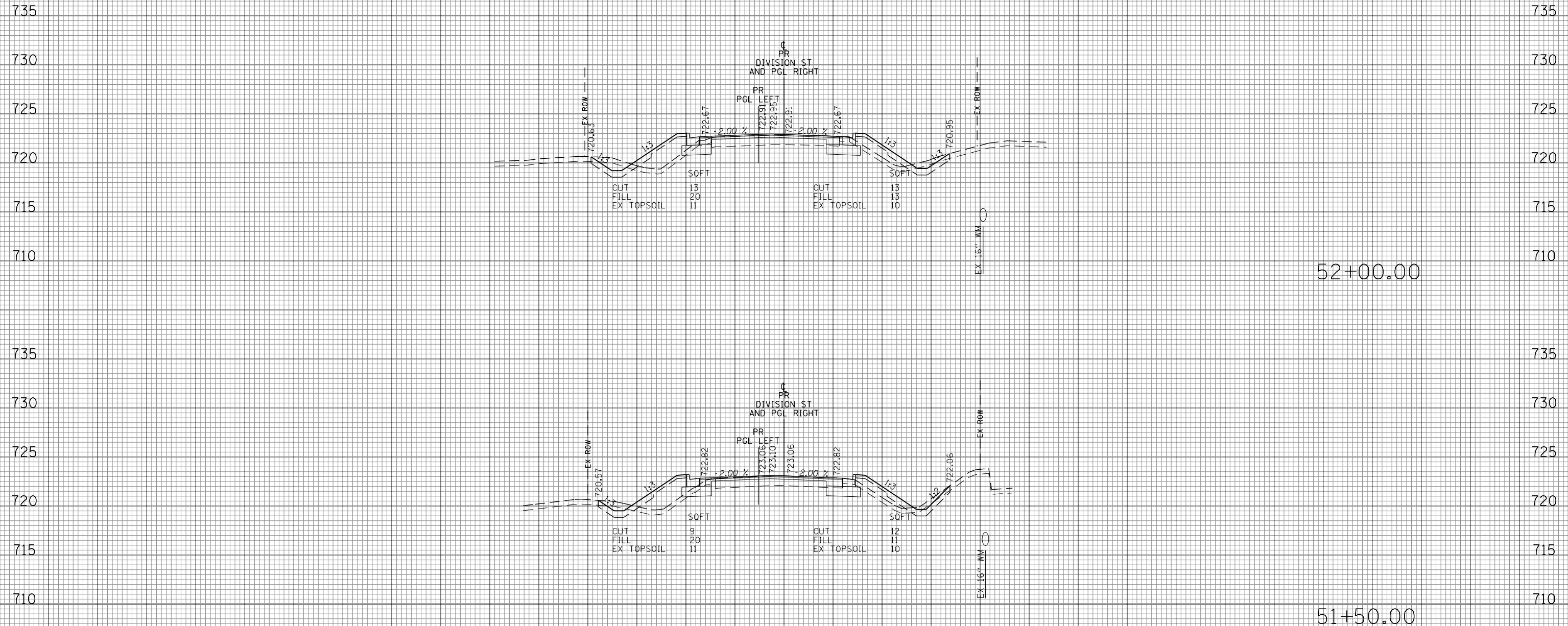
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F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	80
			CONTRACT NO. 61E47	
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED
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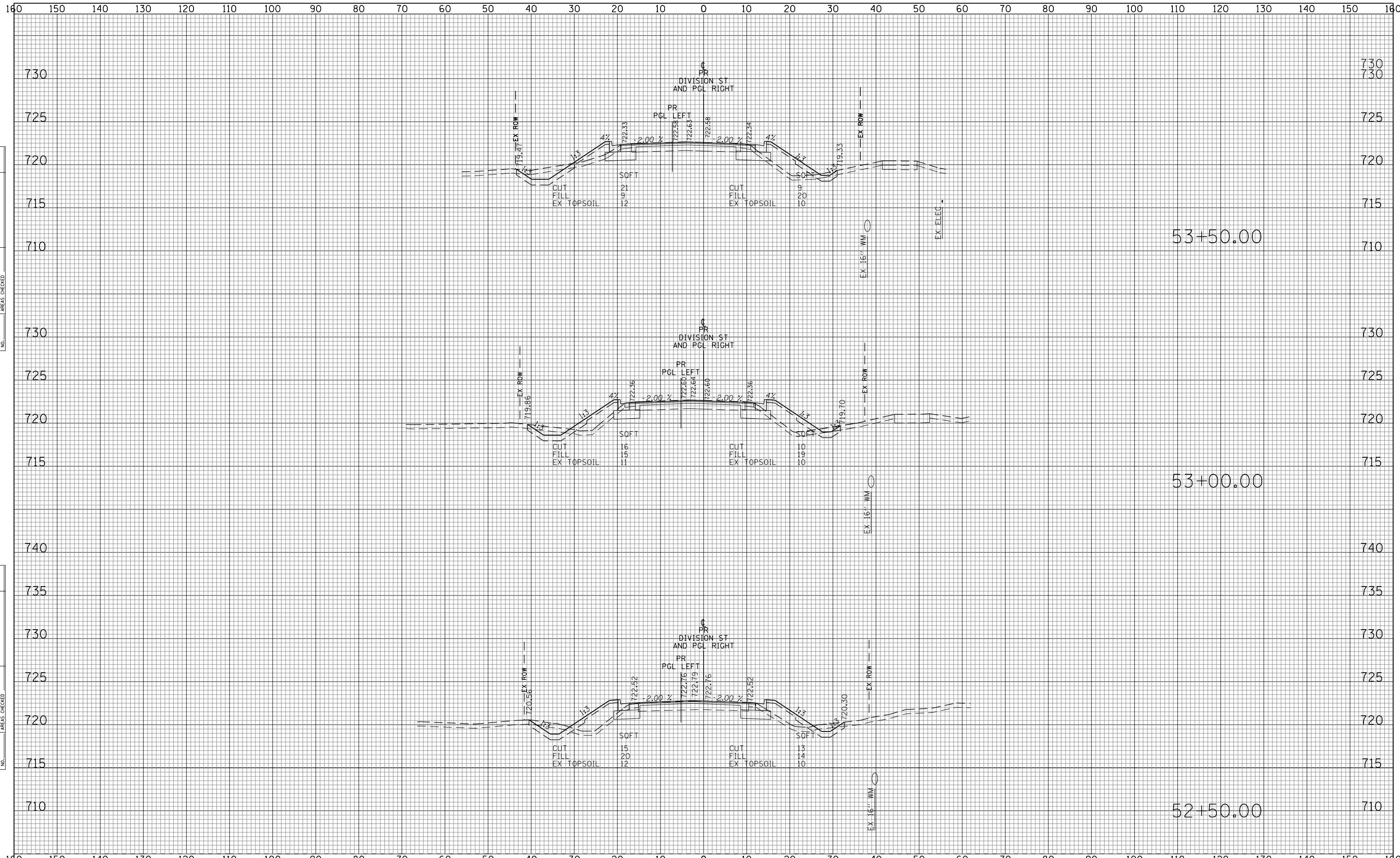
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REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

W. 167TH ST DIVISION ST CROSS SECTIONS

SCALE: 10H:5V SHEET NO. 81 OF 103 SHEETS STA. 51+50.00 TO STA. 52+00.00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	81
CONTRACT NO. 61E47			ILLINOIS FED. AID PROJECT	

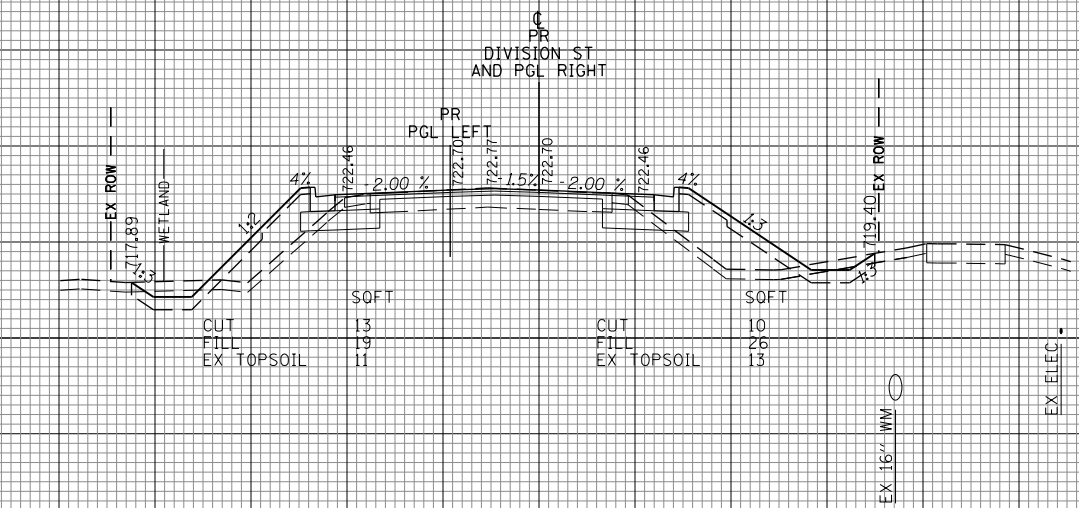
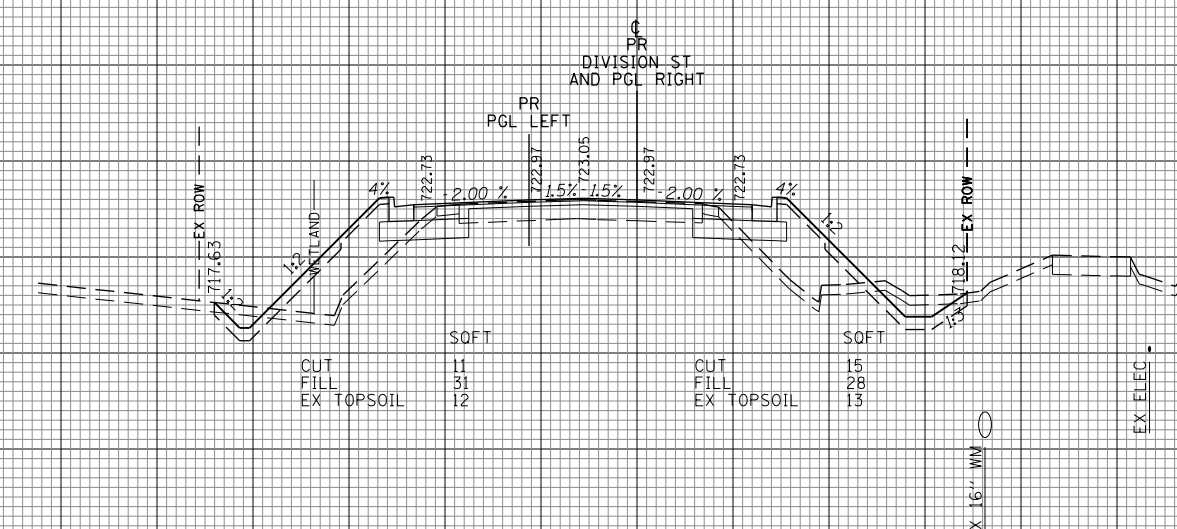
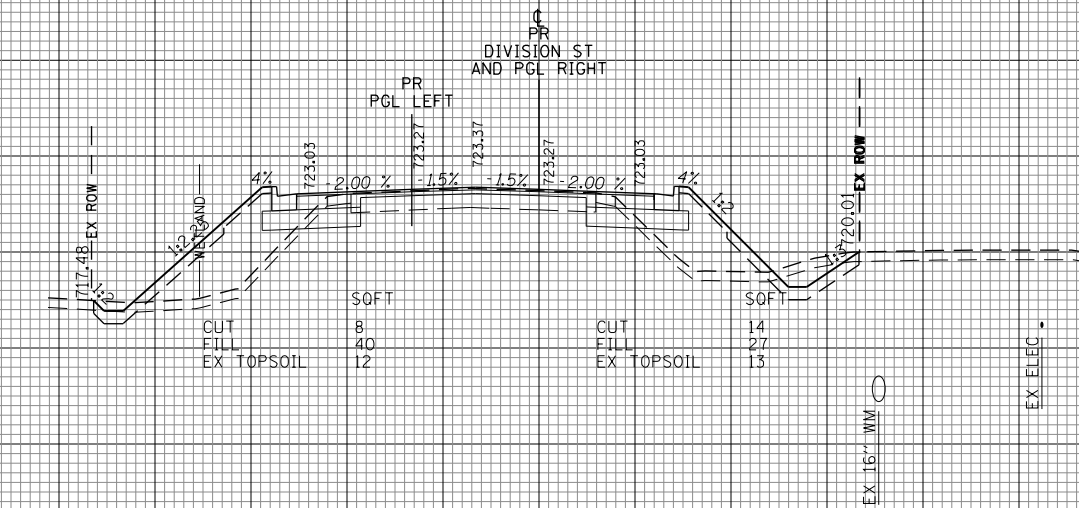


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160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE	BY
SURVEYED	PLOTTED
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NOTE BOOK	NO.

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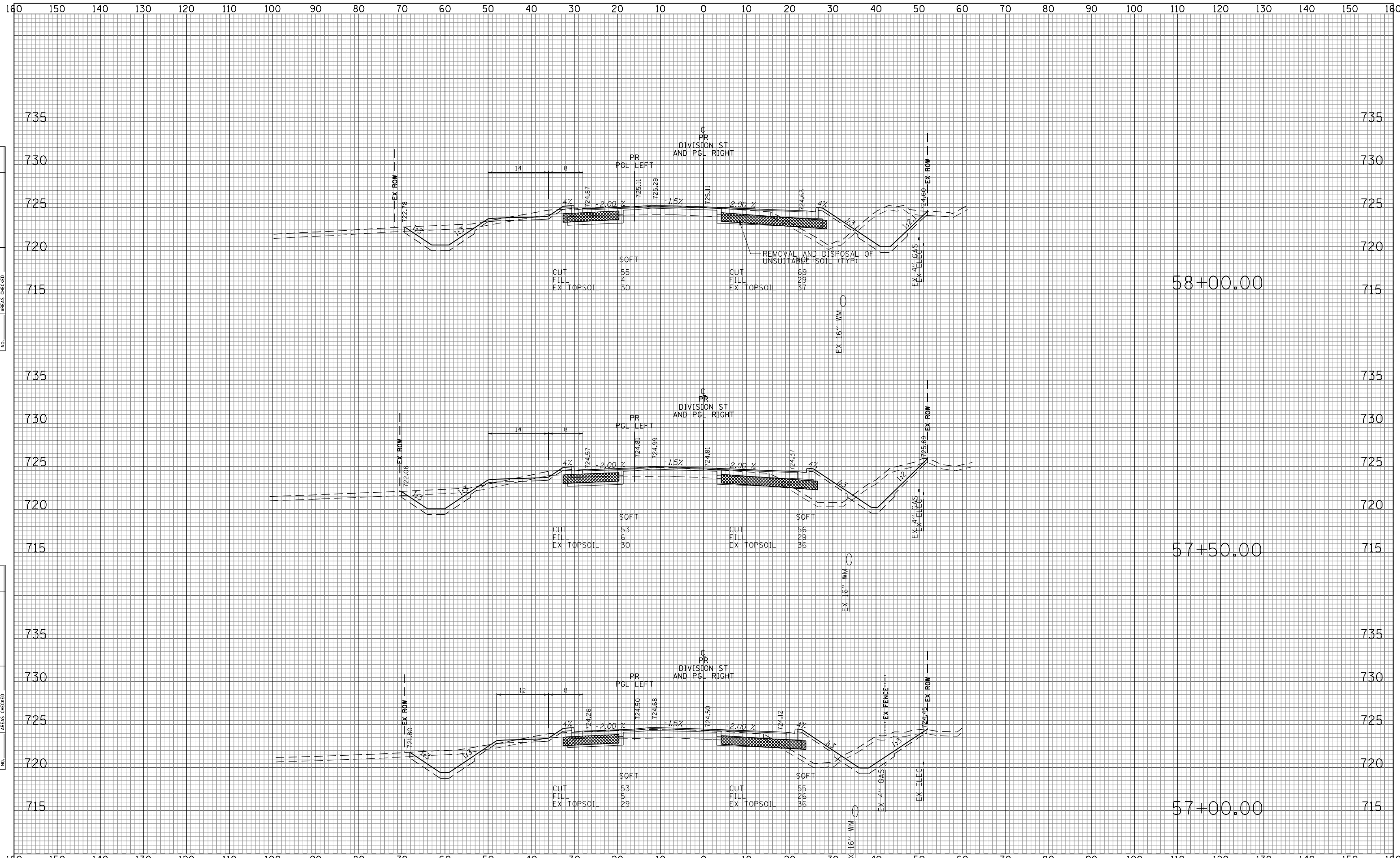
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

W. 167TH ST DIVISION ST CROSS SECTIONS

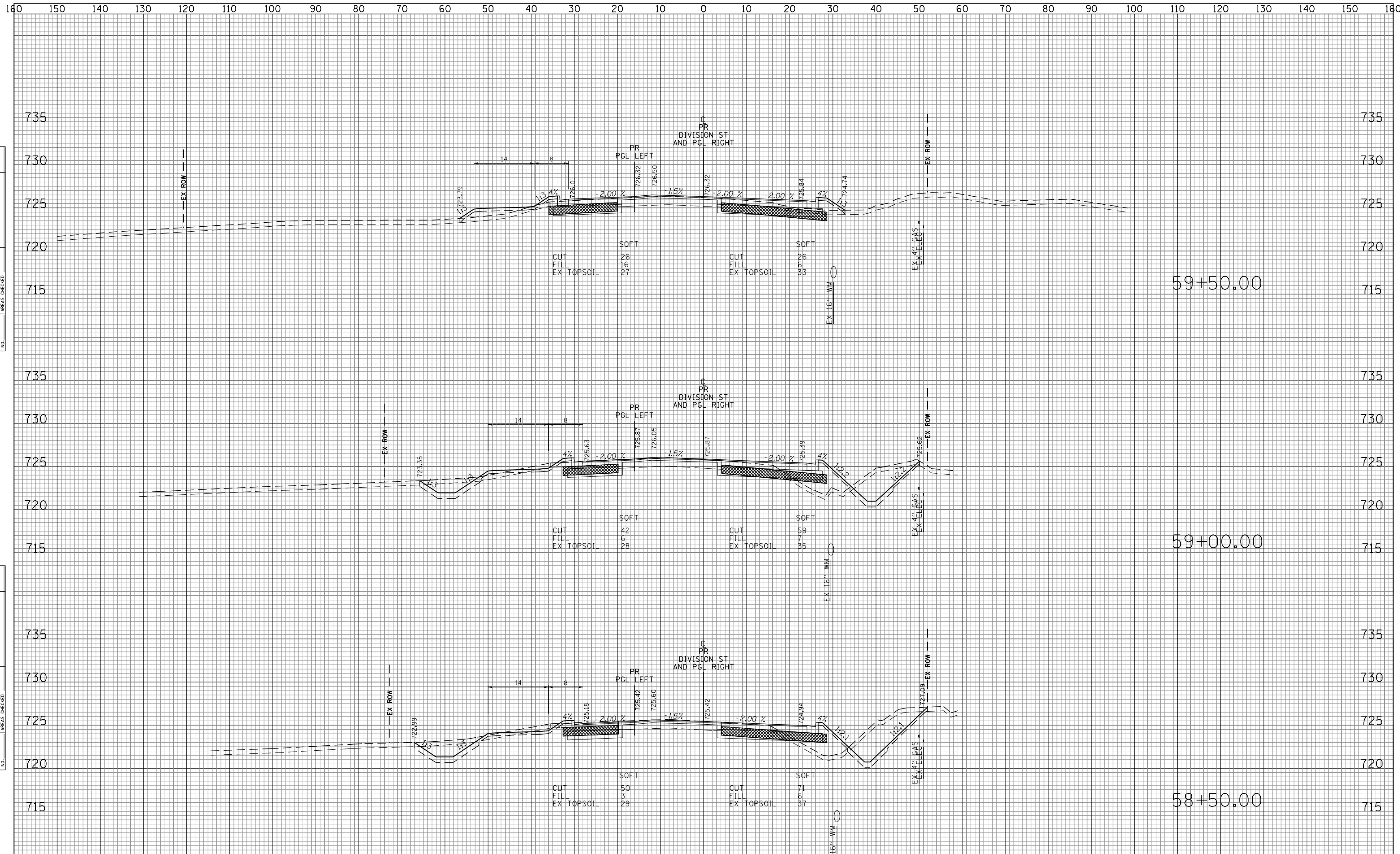
SCALE: 10H:5V SHEET NO. 83 OF 103 SHEETS STA. 54+00.00 TO STA. 55+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	83
CONTRACT NO. 61E47			ILLINOIS FED. AID PROJECT	



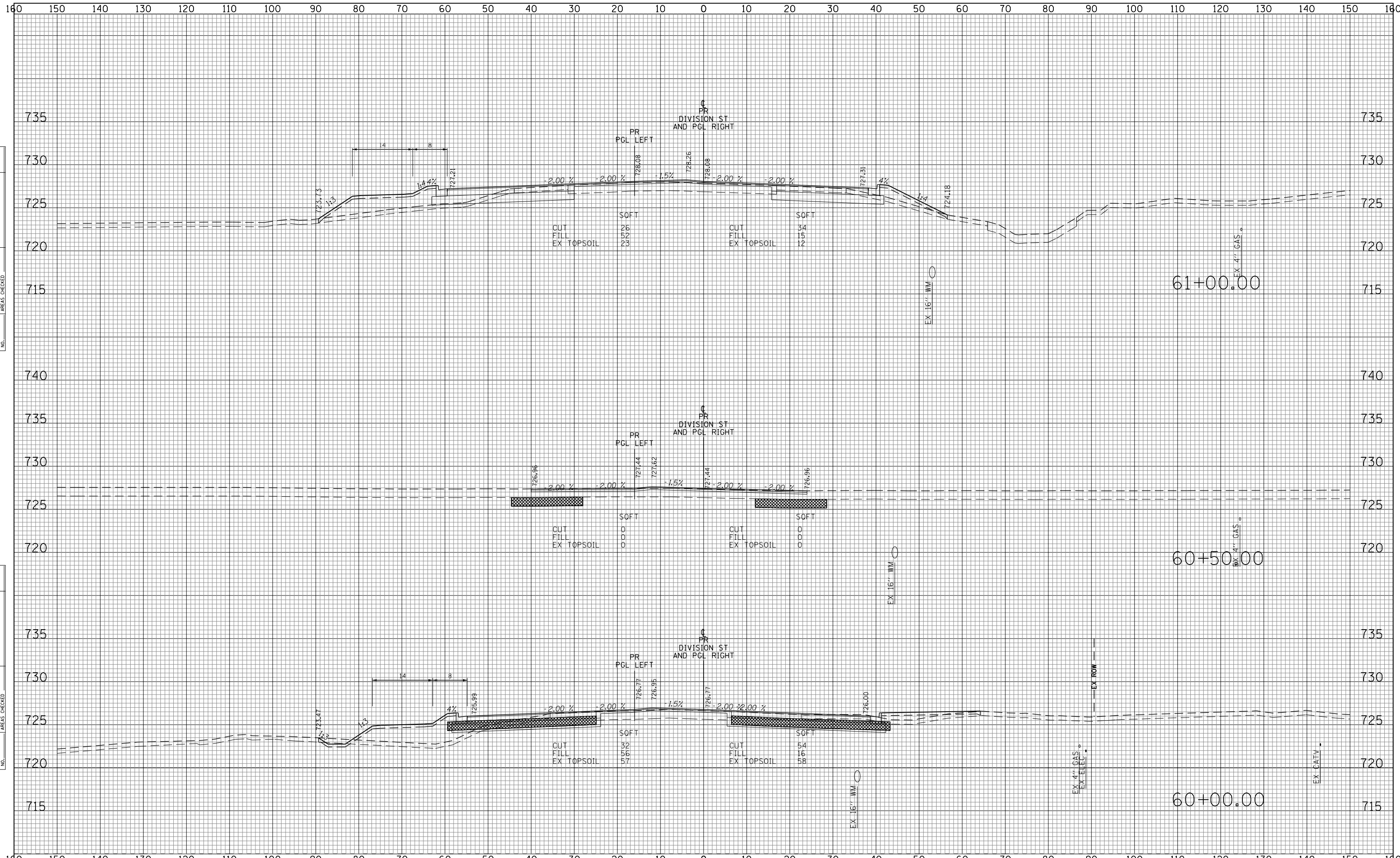
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DATE	BY
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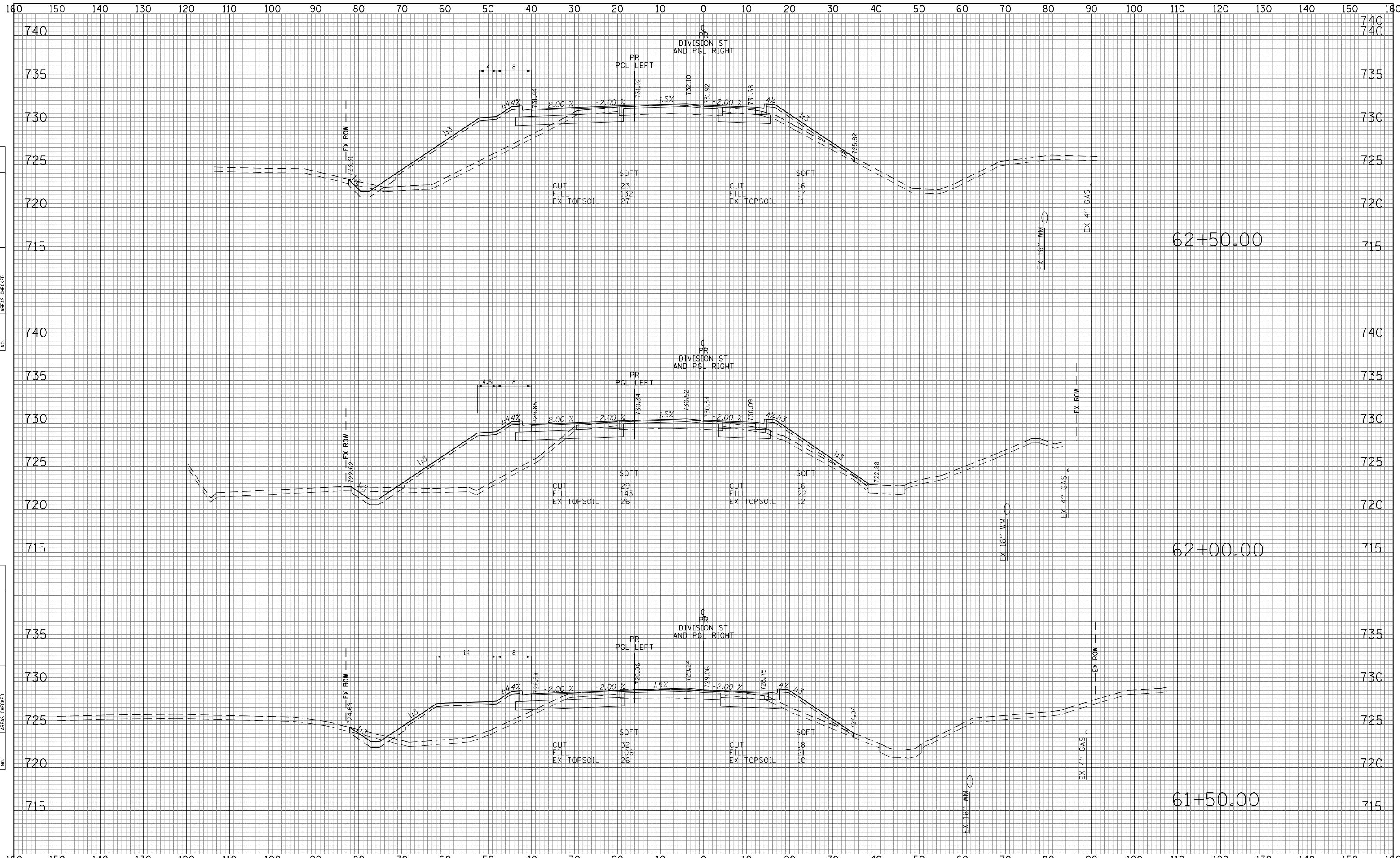
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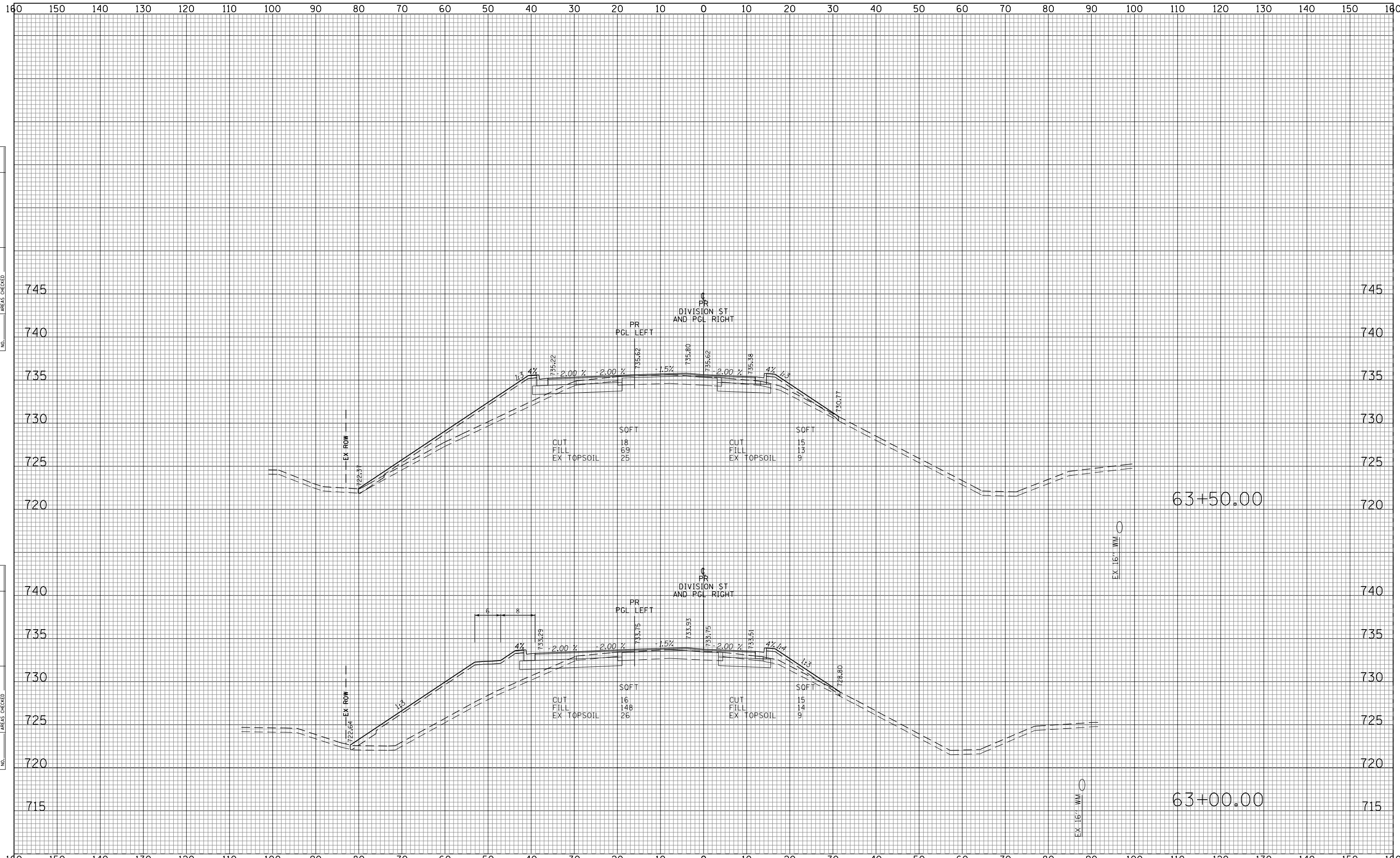
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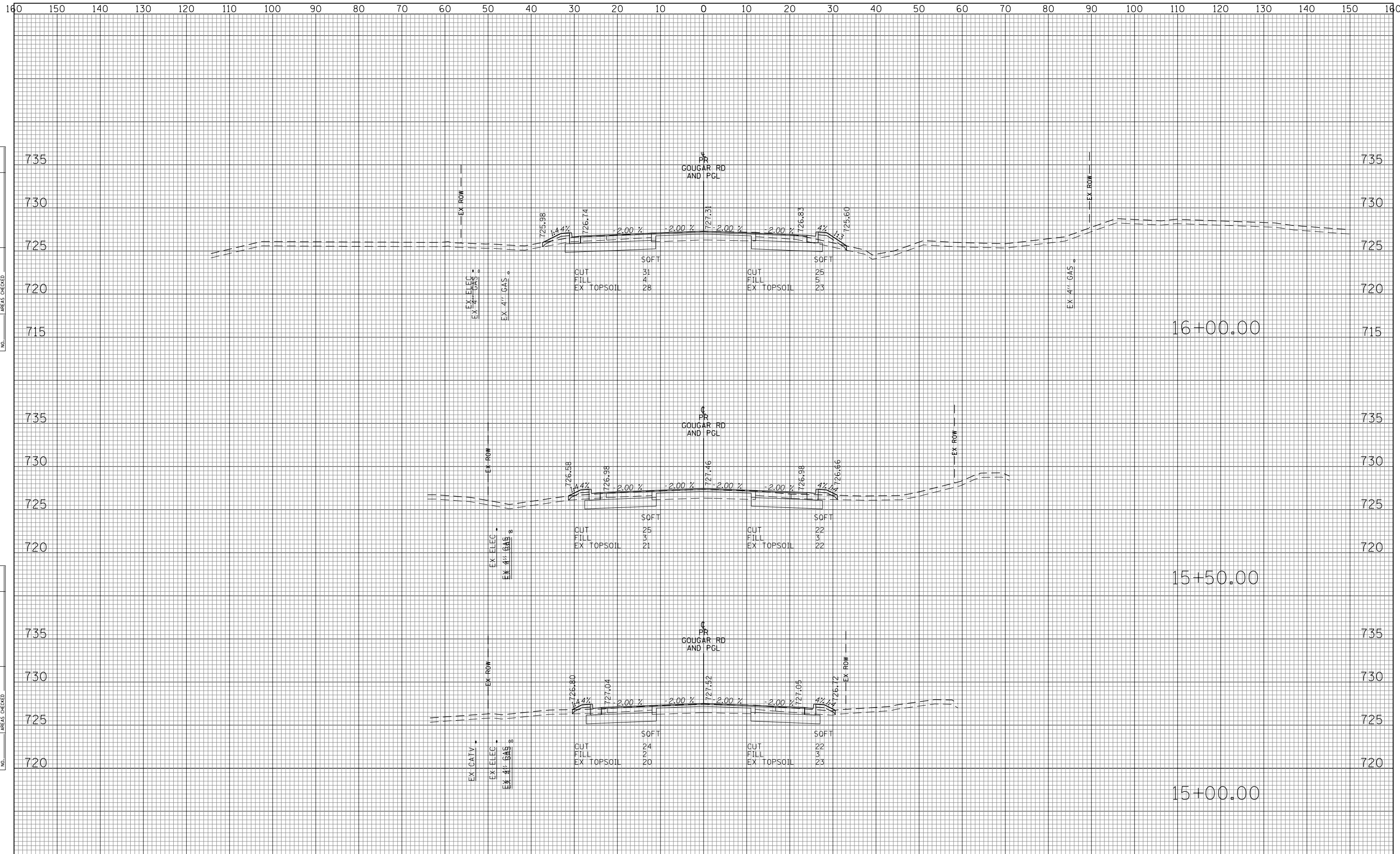
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FILEL		DRAWN - MLB	REVISED -		291/367	14-00081-00-CH	WILL	103	88			
		CHECKED - DWB	REVISED -		CONTRACT NO. 61E47							
		DATE - 02-06-2018	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 10H:5V		SHEET NO. 88 OF 103 SHEETS		STA. 61+50.00 TO STA. 62+50.00				



DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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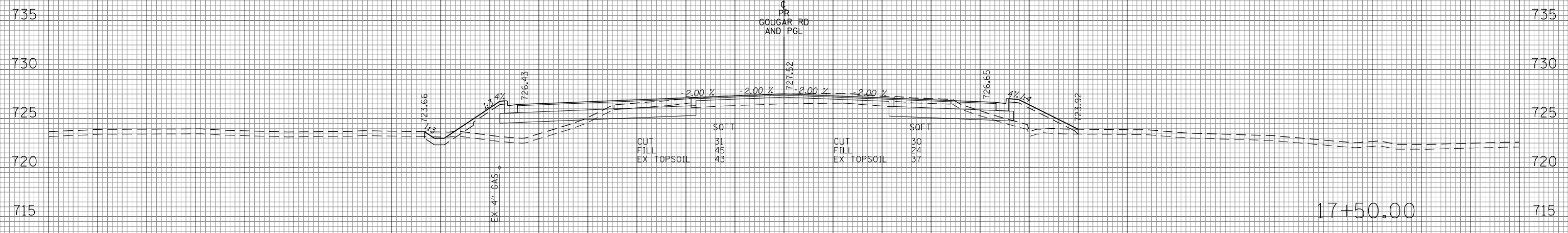
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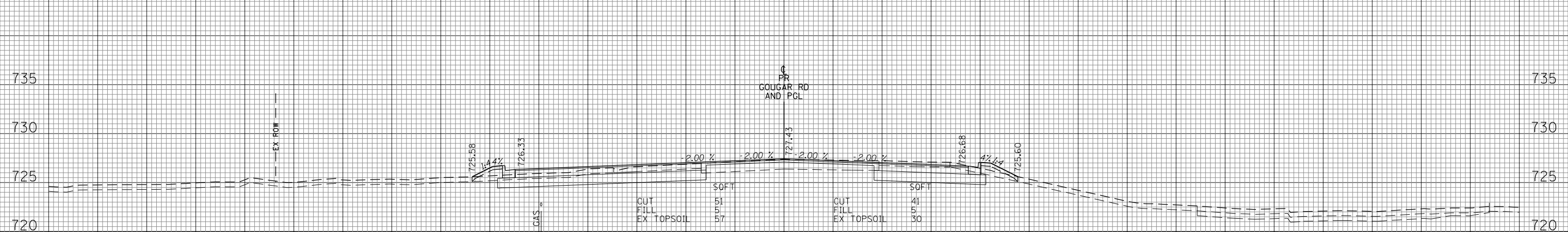
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*FILEL#		DRAWN - MLB	REVISED -		291/367	14-00081-00-CH	WILL	103	97		
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PLOT DATE = 2/6/2018		DATE -02-06-2018	REVISED -		ILLINOIS FED. AID PROJECT						

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	



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



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

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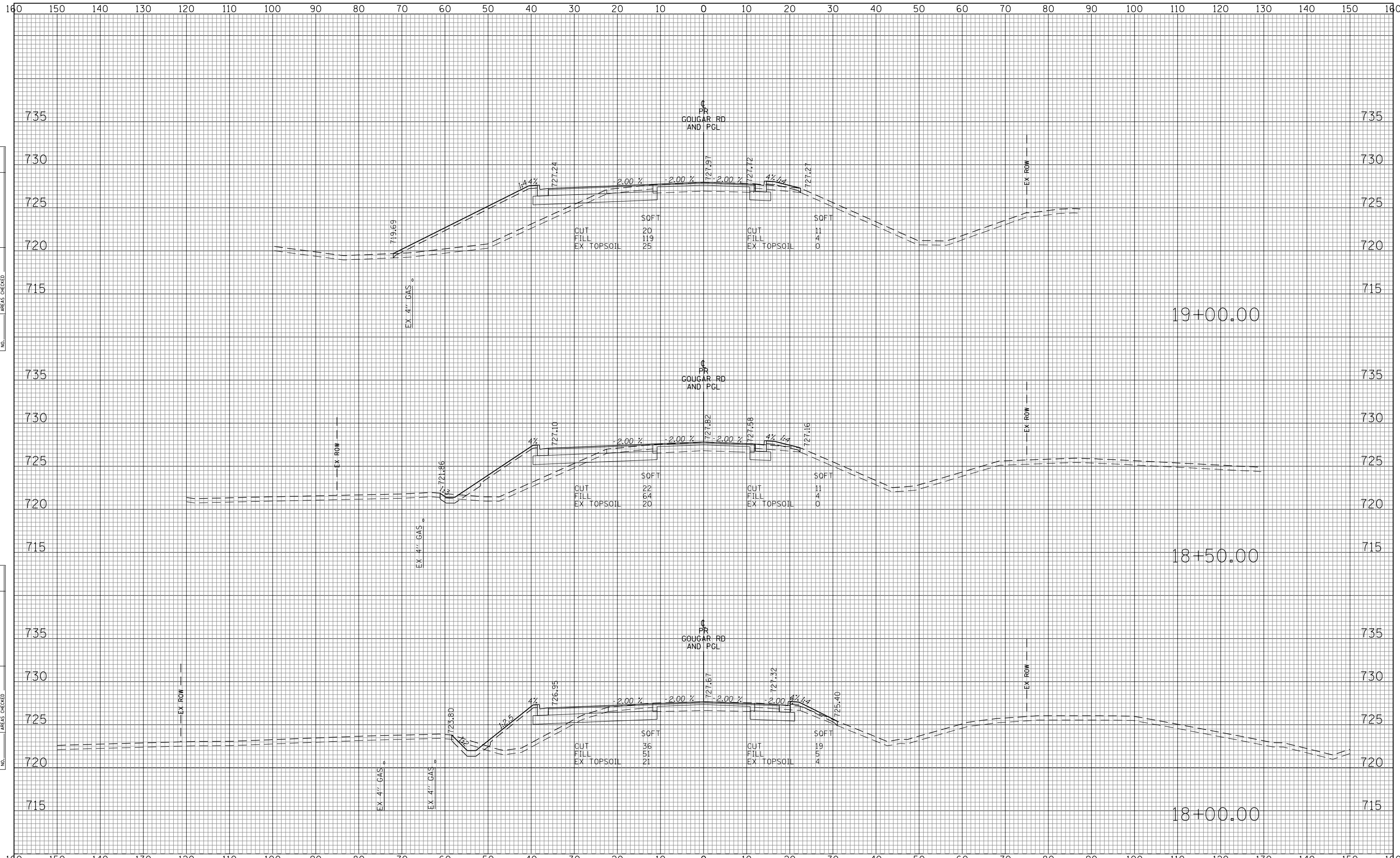
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 10H:5V SHEET NO. 98 OF 103 SHEETS STA. 16+50.00 TO STA. 17+50.00

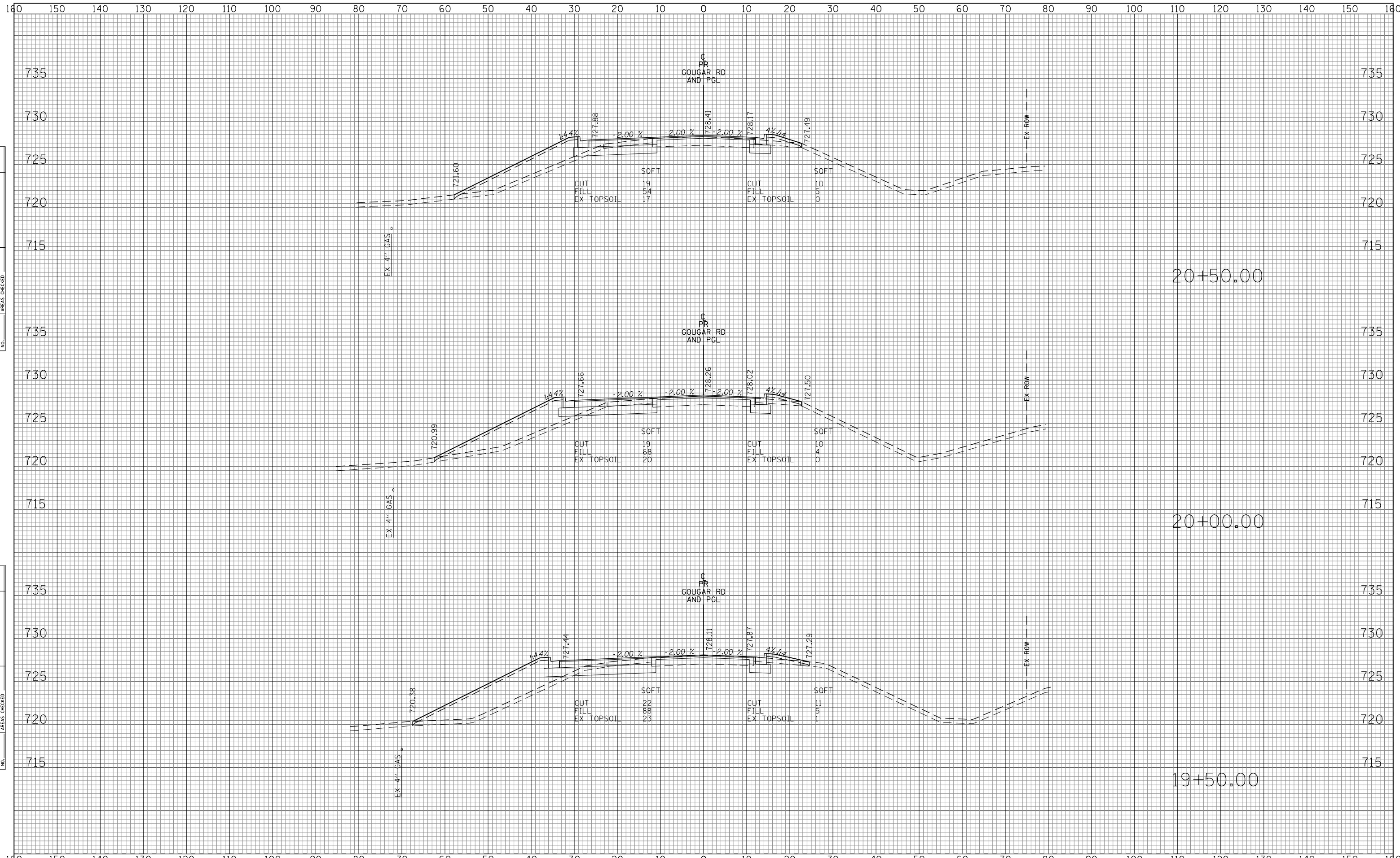
S. GOUGAR ROAD CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	98
CONTRACT NO. 61E47				
ILLINOIS FED. AID PROJECT				



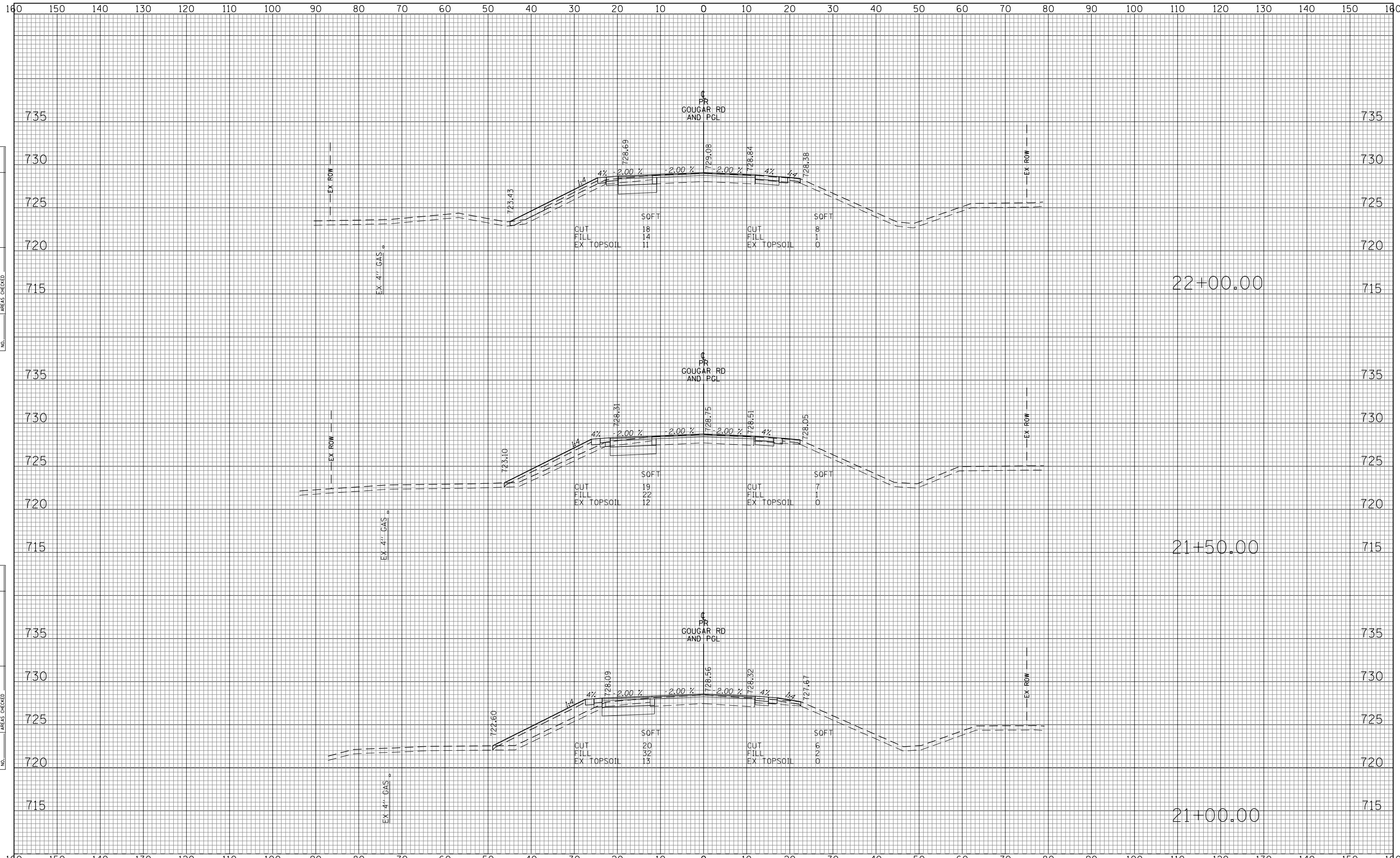
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TEMPLATE	
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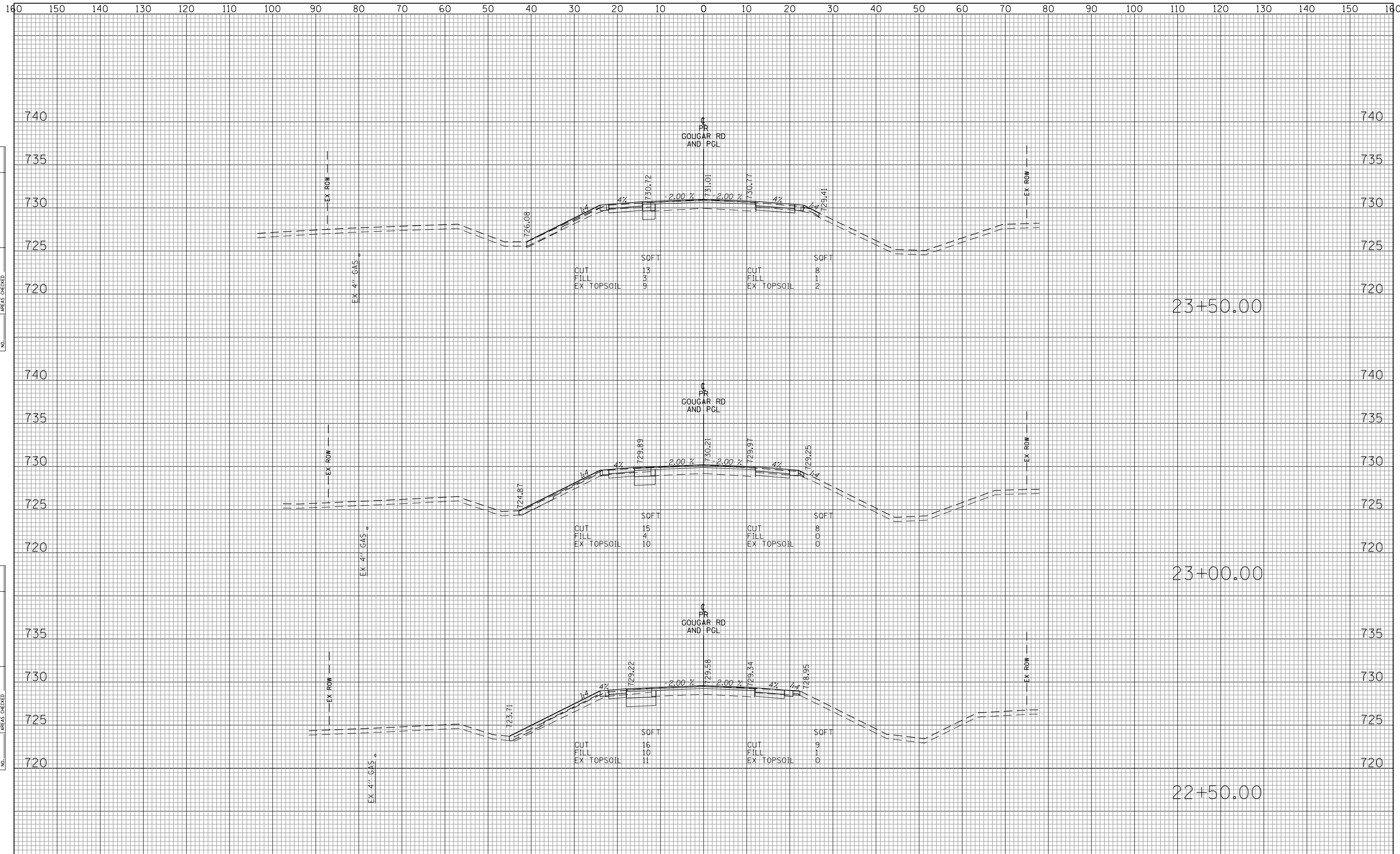
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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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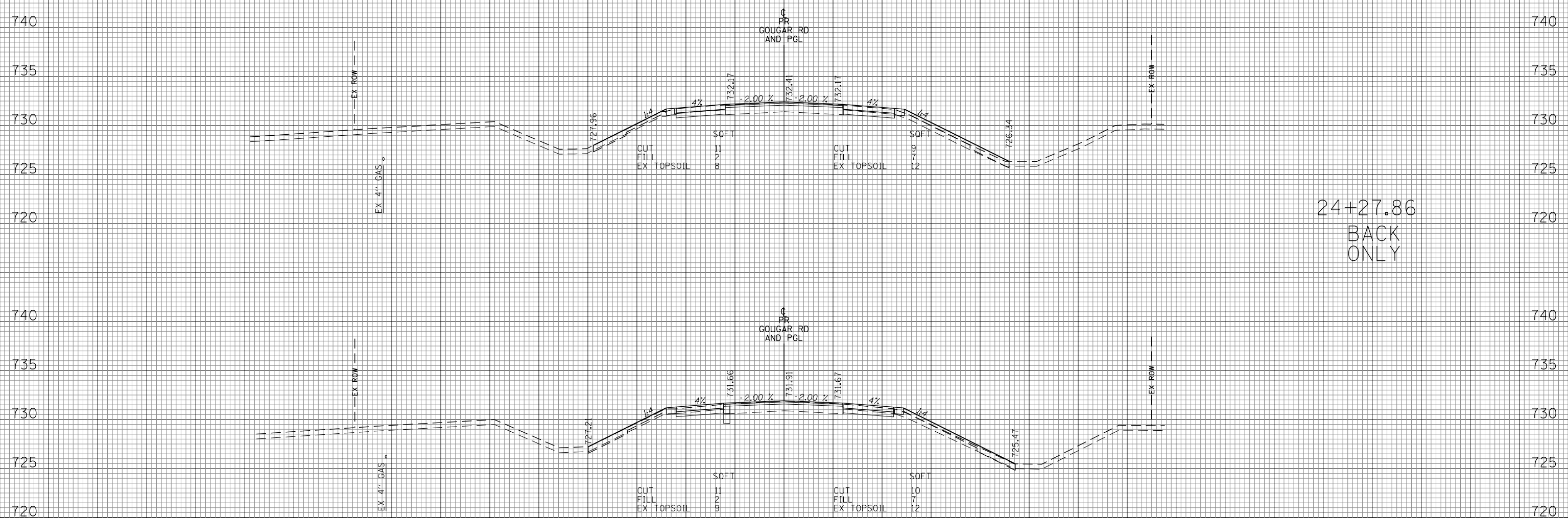
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FILEL		DRAWN - MLB	REVISED -		291/367	14-00081-00-CH	WILL	103	102		
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		DATE -02-06-2018	REVISED -		ILLINOIS FED. AID PROJECT						

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



24+27.86
BACK ONLY

24+00.00

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

FILE NAME =
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USER NAME = Mibeening
DESIGNED - MLB
DRAWN - MLB
CHECKED - DWB
DATE - 02-06-2018

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REVISIED -
REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

S. GOUGAR ROAD CROSS SECTIONS

SCALE: 10H:5V SHEET NO.103 OF 103 SHEETS STA. 24+00.00 TO STA. 24+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
291/367	14-00081-00-CH	WILL	103	103
			CONTRACT NO. 61E47	
ILLINOIS FED. AID PROJECT				