

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF ELWOOD

FUNCTIONAL CLASSIFICATION

PRINCIPAL URBAN ARTERIAL - IL ROUTE 53 (FAP 846)
 2013 ADT = 7,700 (2035 ADT = 11,900)
 P.V. = 71% S.U. = 20% M.U. = 9%
 DESIGN SPEED = 60 MPH, POSTED SPEED = 55 MPH

LOCAL URBAN STREET - HOFF ROAD (MS 1007)
 2013 ADT = 700 (2035 ADT = 1,100)
 P.V. = 96% S.U. = 4% M.U. = 0%

HOFF ROAD (WEST LEG)
 DESIGN SPEED = 30 MPH, POSTED SPEED = 20 MPH

HOFF ROAD (EAST LEG)
 DESIGN SPEED = 60 MPH, POSTED SPEED = 55 MPH

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

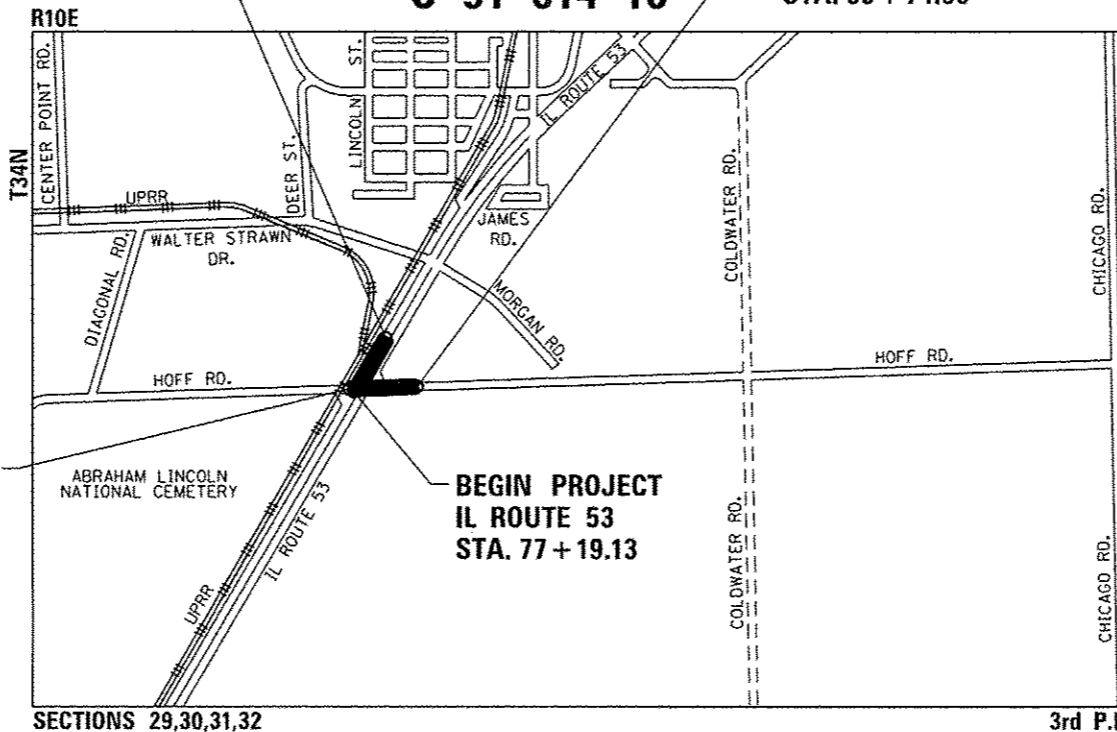
FAP ROUTE 846 (IL ROUTE 53)
 SECTION: D1HSRR2016-01
 AT HOFF RD & UNION PACIFIC RR (HIGH SPEED RAIL)
 PROJECT: HSR-0846(026)

**INTERSECTION IMPROVEMENT & TRAFFIC SIGNAL INSTALLATION
 WILL COUNTY**

END PROJECT
 IL ROUTE 53
 STA. 82 + 60.68

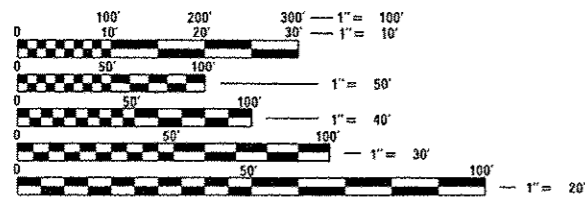
END PROJECT
 HOFF ROAD
 STA. 59 + 74.00

C-91-014-16



SECTIONS 29,30,31,32

3rd P.M.



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

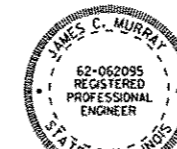
PROJECT ENGINEER: ANDY E. RABADI (847) 705-4256
 PROJECT MANAGER: JOSE A. DOMINGUEZ (847) 705-4385

CONTRACT NO. 62B32

AECOM
 AECOM TECHNICAL SERVICES, INC.
 1001 HIGHLANDS PLAZA DRIVE, SUITE 300
 ST. LOUIS, MISSOURI 63110
 PH. 314-429-0100

LOCATION MAP

	NET LENGTH	GROSS LENGTH
HOFF RD.	329.39 FT (0.062 MI)	432.60 FT (0.082 MI)
IL ROUTE 53	541.55 FT (0.103 MI)	541.55 FT (0.103 MI)
PROJECT TOTAL	870.94 FT (0.165 MI)	974.15 FT (0.184 MI)



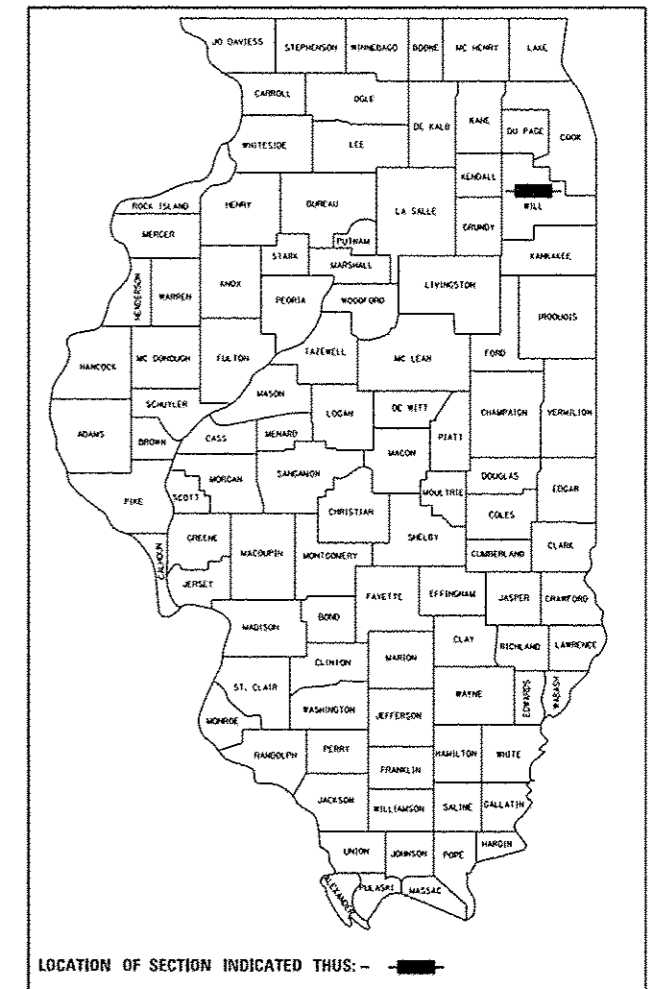
JAMES C. MURRAY, P.E.
 IL. REG. P.E. NO. 62-062095
 EXPIRES: NOVEMBER 30, 2017

DATE: 02/19/2016

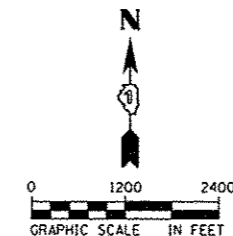
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	D1HSRR2016-01	WILL	140	1
		ILLINOIS	CONTRACT NO. 62B32	

DOT# 290492F
 MP 46.64

D-91-014-16



LOCATION OF SECTION INDICATED THUS: -



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 SUBMITTED FEBRUARY 17, 2016
John Estep
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Maxim M. Addis, P.E.
 ENGINEER OF DESIGN AND ENVIRONMENT
Maxim M. Addis, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

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001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
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542311-06	TRAVERSABLE PIPE GRATE
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602101-02	DRAINAGE STRUCTURES TYPES 1, 2 & 3
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630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
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630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
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701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701422-08	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
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877001-06	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
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878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

COMMITMENTS

ALL EMERGENCY SERVICES, LOCAL POLICE, FIRE DEPARTMENTS, UTILITIES, AND SCHOOL DISTRICTS SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 7 DAYS PRIOR TO ANY ROAD CLOSURES OR CHANGES IN TRAFFIC PATTERNS.

ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 7 DAYS PRIOR TO THE START OF CONSTRUCTION.

HIGH SPEED RAIL PROJECT MANAGEMENT TEAM WILL COORDINATE WITH THE UPRR TO ENSURE RAILROAD CROSSING SURFACES ARE WIDE ENOUGH FOR EACH STAGE OF IDOT CONSTRUCTION.

CONTRACTOR SHALL NOT ENCROACH DESIGNATED WETLANDS AS SHOWN ON PLANS.

CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL REQUIREMENTS AS NOTED IN THE SPECIAL PROVISION "REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES".

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS, GENERAL NOTES
AND COMMITMENTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	2
CONTRACT NO.			62B32	
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 1 OF 2 SHEETS STA. N/A TO STA. N/A

AECOM

USER NAME : thareso.schlueter	DESIGNED - MTL	REVISED -
PLOT SCALE : 40.0000' / in.	DRAWN - JTM	REVISED -
PLOT DATE : 4/15/2016	CHECKED - JCM	REVISED -
	DATE - 03/21/2016	REVISED -

GENERAL NOTES

1. THE CONTRACTOR SHALL DEVELOP A PLAN TO ACCOMPLISH THIS WORK AND MINIMIZE DISRUPTION OF ACCESS. THIS PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
3. AGGREGATE SHOULDER REMOVAL SHALL BE INCLUDED WITH EARTH EXCAVATION.
4. THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.
5. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
6. BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL FIELD VERIFY AND CONSULT THE ENGINEER FOR EXACT LENGTHS.
7. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
8. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
9. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
10. BENCHMARKS FOR THE PROJECT ARE DESCRIBED IN THE PLANS AND ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL BEARINGS AND COORDINATES REFERENCED IN THE PLAN DRAWINGS AND ALL CONTROL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83.
11. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
12. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. THE CONTRACTOR SHALL CONTACT THE MUNICIPALITY FOR ANY MUNICIPAL OWNED UTILITIES. (MINIMUM 48 HOURS NOTIFICATION IS REQUIRED). THE CONTRACTOR SHALL CALL THE UNION PACIFIC RAILROAD "CALL BEFORE YOU DIG" OPERATION AT 1-800-336-9193 FOR FIELD LOCATIONS OF BURIED FIBER OPTIC CABLES IN UPRR RIGHT OF WAY.
13. EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS.
14. 10-FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE ITEM OF WORK SPECIFIED.
15. THE CONTRACTOR SHALL MAKE FULL DEPTH SAW CUTS REQUIRED FOR THE REMOVAL OF PAVEMENTS, CONCRETE CURB AND GUTTERS, SIDEWALKS AND DRIVEWAYS AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER. THE COST SHALL BE CONSIDERED INCLUDED IN THE COST FOR REMOVAL OF THE SPECIFIED ITEM IN THE CONTRACT.
16. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES REFER TO THE POSITION FROM THE BASELINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY TO THE STRUCTURES TO SET THE FRAME AND GRATES IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF THE STRUCTURE; ELEVATION INDICATES RIM GRADES.
17. ENGINEER SHALL COORDINATE WITH WILL COUNTY DIVISION OF TRANSPORTATION REGARDING SIGN LOCATIONS.
18. WILL COUNTY DIVISION OF TRANSPORTATION SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF THE CLOSURE OF HOFF ROAD. CALL BRUCE GOULD AT (815) 727-8476.
19. THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.
20. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. THE COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN THE CONTRACT.

21. THE CONTRACTOR SHALL KEEP EXISTING ADJACENT STREETS CLEAN OF DIRT, MUD, AND OTHER DEBRIS AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS OR WHEN DIRECTED BY THE ENGINEER. NO EXTRA COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR THIS WORK.
22. 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.
23. WHEN SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
24. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. REDUCED SIZED PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELD.
25. NON-JULIE MEMBERS WITHIN THE LIMITS OF IMPROVEMENT ARE:
 1. UNION PACIFIC RAILROAD COMPANY
26. THE CONTRACTOR SHALL COORDINATE WITH THE TOWNSHIP, CITY, AND COUNTY FOR THEIR ANNUAL FESTIVAL EVENTS AND MINIMIZE DISRUPTION OF ACCESS DURING CONSTRUCTION.
27. THE ENGINEER SHALL CONTACT ERIC CAMPOS, IDOT'S AREA TRAFFIC FIELD ENGINEER FOR WILL COUNTY, VIA E-MAIL AT ERIC.CAMPOS@ILLINOIS.GOV AND OR AT (815)485-6475, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
28. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.
29. THIS PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK (WHICH INCLUDES WORK IN WETLANDS). THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
30. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.
31. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (EXC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT EXC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
32. CONTRACTOR SHALL OBTAIN WRITTEN CONSENT FROM THE LOCAL AGENCY PRIOR TO BEGINNING NIGHTTIME WORK.
33. THE ABRAHAM LINCOLN NATIONAL CEMETERY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF THE CLOSURE OF HOFF RD. CALL THOMAS KOERTING AT (317) 916-3798 OR SEAN BAUMGARTNER AT (815) 423-9958.

UNION PACIFIC RAILROAD GENERAL NOTES

1. WITHIN THESE NOTES, THE UNION PACIFIC RAILROAD SHALL BE REFERRED TO AS THE "RAILROAD".
2. A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
3. NO DISRUPTIONS OF RAILROAD OPERATIONS WILL BE PERMITTED.
4. ALL WORK WITHIN 25 FEET OF THE NEAREST TRACK WILL REQUIRE A RAILROAD FLAGMAN. TO SCHEDULE A FLAGMAN FOR WORK ON A COMMUTER LINE, CALL CANDICE MILLER AT (312) 496-4738, A MINIMUM 72 HOURS IN ADVANCE OF START OF WORK. TO SCHEDULE A FLAGMAN FOR WORK ON FREIGHT LINES, CALL DARYL CLACK AT (708) 649-5273, A MINIMUM OF 72 HOURS IN ADVANCE OF START OF WORK.
5. WORK WINDOWS WITHIN THE 25 FOOT ZONE ARE ONLY AVAILABLE FROM 9:00 AM - 3:00 PM, MONDAY THROUGH FRIDAY. NIGHT WORK WINDOWS ARE AVAILABLE FROM 8:00 PM - 4:00 AM. PLEASE PROVIDE AT LEAST 72 HOURS OF ADDITIONAL NOTICE WHEN REQUESTING TO WORK AT NIGHT TO ENSURE APPROPRIATE FLAGGING COVERAGE. EXTENDED WORK WINDOWS MAY BE AVAILABLE ON THE WEEKENDS. NOT WITHSTANDING THE FOREGOING, DUE TO INTERSTATE FREIGHT TRAIN AND COMMUTER PASSENGER TRAIN OPERATIONS AND SCHEDULES ALL WORK WINDOWS WITHIN THE TIMES LISTED ABOVE ARE SUBJECT TO ON SITE UNILATERAL ADJUSTMENT OR DENIAL FROM THE RAILROAD'S LOCAL FIELD MANAGER AND/OR CORRIDOR MANAGER. THIS MAY RESULT IN DENIAL OR ADJUSTMENT OF ACCESS FOR ANY AND ALL CONTRACTORS, SUBCONTRACTORS AND MATERIAL MEN DURING WORK WINDOWS.
6. NO UN-USED WORK EQUIPMENT WILL BE ALLOWED TO REMAIN ON THE RAILROAD'S COMMUTER PLATFORM IF PRESENT.
7. RAILROAD UTILITIES ARE NOT INCLUDED UNDER JULIE. CALL CANDICE MILLER AT (312) 496-4738 FOR LOCATES.
8. FIBER OPTICS MAY BE PRESENT IN THIS AREA. CALL (800) 336-9193 TO COORDINATE ANY REQUIRED PROTECTION OR RELOCATION, PRIOR TO CONSTRUCTION.
9. ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTIONS TO RAILROAD'S OPERATIONS. ERECTION OVER THE RAILROAD'S TRACK SHALL BE DEVELOPED SUCH THAT IT ENABLES THE TRACK(S) TO REMAIN OPEN TO TRAIN TRAFFIC PER RAILROAD'S REQUIREMENTS.
10. MINIMUM CONSTRUCTION CLEARANCE ENVELOPE OF 21 FEET VERTICAL ABOVE THE PLANE OF TOP-OF-RAIL AND 12 FEET HORIZONTAL AT RIGHT ANGLE FROM CENTERLINE OF TRACK SHALL BE MAINTAINED AT ALL TIME DURING CONSTRUCTION.
11. FALSEWORK CLEARANCE SHALL COMPLY WITH THE RAILROAD'S MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.
12. FOR RAILROAD COORDINATION PLEASE REFER TO THE RAILROAD MINIMUM REQUIREMENTS AS PART OF SPECIAL PROVISIONS.
13. THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.

FILE NAME: c:\pwworking\pwworking\external\bruce.gould\12485\0152832.tbl; general notes.dgn



USER NAME = drea.brouk	DESIGNED - MTL	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 48.0000' / 1"	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HIGHWAY STANDARDS, GENERAL NOTES
AND COMMITMENTS**

SCALE: NTS SHEET 2 OF 2 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	3
CONTRACT NO.				62B32
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
25200200	SUPPLEMENTAL WATERING	UNIT	180	180		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	10		
28000305	TEMPORARY DITCH CHECKS	FOOT	276	276		
28000315	AGGREGATE DITCH CHECKS	TON	3	3		
28000400	PERIMETER EROSION BARRIER	FOOT	1720	1720		
28000510	INLET FILTERS	EACH	5	5		
28100107	STONE RIPRAP, CLASS A4	SQ YD	404	404		
28100109	STONE RIPRAP, CLASS A5	SQ YD	229	229		
28200200	FILTER FABRIC	SQ YD	646	646		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	67	67		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3758	3758		
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	964	964		
35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	13	13		
35501330	HOT-MIX ASPHALT BASE COURSE, 11 1/2"	SQ YD	986	986		

* =SPECIALTY ITEM

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USER NAME - matthew.libera	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE - 48,0000 / in.	CHECKED - JCM	REVISED -
PLOT DATE - 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 2 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	5
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
48203054	HOT-MIX ASPHALT SHOULDERS, 14 1/4"	SQ YD	1012	1012		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1		
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	1		
50104400	CONCRETE HEADWALL REMOVAL	EACH	5	5		
50105220	PIPE CULVERT REMOVAL	FOOT	8	8		
50200100	STRUCTURE EXCAVATION	CU YD	248	248		
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	67	67		
50300225	CONCRETE STRUCTURES	CU YD	35.4	35.4		
50500505	STUD SHEAR CONNECTORS	EACH	344	344		
50800105	REINFORCEMENT BARS	POUND	22240	22240		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3100	3100		
51500100	NAME PLATES	EACH	1	1		
52200015	PERMANENT SHEET PILING	SQ FT	4816	4816		

* =SPECIALTY ITEM

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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	7
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	444	444		
54003000	CONCRETE BOX CULVERTS	CU YD	124.5	124.5		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1		
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	76	76		
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	3	3		
60247170	DRAINAGE STRUCTURES, TYPE 2 WITH TWO TYPE 22 FRAMES AND GRATES	EACH	1	1		
60500060	REMOVING INLETS	EACH	1	1		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	412.5	412.5		
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	37.5	37.5		
* 63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	50	50		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
63200310	GUARDRAIL REMOVAL	FOOT	170	170		
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	2270	2270		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	55	55		

* =SPECIALTY ITEM

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PLOT SCALE * 48.0000' / in.	CHECKED - JCM	REVISED -
PLOT DATE * 2/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 5 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B32	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
67100100	MOBILIZATION	LSUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	70	70		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16	16		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	145	145		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10935	10935		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	441	441		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	279	279		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	562	562		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
* 72000100	SIGN PANEL - TYPE 1	SO FT	216	192	24	
* 72000200	SIGN PANEL - TYPE 2	SO FT	10	10		
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	10	10		

* =SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 6 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 9
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	SIGNAL	EVP	
				100% HSR	100% HSR	100% ELWOOD	
				0004	0021	0021	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	246	246			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	341	341			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3601	3601			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1565	1565			
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	197	197			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	110	110			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	215	215			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24			
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	46	46			
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	27	27			
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2			
	78300100	PAVEMENT MARKING REMOVAL	SO FT	4471	4471		
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1		
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2566		2566		

* =SPECIALTY ITEM

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USER NAME = mathaw.libera	DESIGNED - MTL	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 7 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 10
CONTRACT NO. 62832				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	60		60	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	54		54	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	967		967	
* 81400200	HEAVY-DUTY HANDHOLE	EACH	12		12	
* 81400300	DOUBLE HANDHOLE	EACH	3		3	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	2		2	
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2279		2279	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	976			976
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5166		5166	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	964		964	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4021		4021	
* 87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	80		80	
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	43		43	

* =SPECIALTY ITEM

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PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -
	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 8 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 11
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1026		1026	
* 87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	1		1	
* 87502510	TRAFFIC SIGNAL POST, GALVANIZED STEEL 17 FT.	EACH	1		1	
* 87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1	
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1	
* 87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1	
* 87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2		2	
* 87702618	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 60 FT.	EACH	1		1	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20		20	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41		41	
* 87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	22		22	
* 87900200	DRILL EXISTING HANDHOLE	EACH	1		1	

* =SPECIALTY ITEM

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AECOM	USER NAME: matthew.libero	DESIGNED - MTL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE: 48,000' / in.	DRAWN - DAB	REVISED -					846	DIHSRR2016-01	WILL	146	12
	PLOT DATE: 3/21/2016	CHECKED - JCM	REVISED -		SCALE:	SHEET 9 OF 11 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 62B32			
		DATE - 03/21/2016	REVISED -						ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14		14	
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6		6	
* 88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3		3	
* 88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1	
* 88055165	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1		1	
* 88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	17		17	
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	13		13	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1127		1127	
* 88700200	LIGHT DETECTOR	EACH	4			4
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1
K0029614	WEED CONTROL, AQUATIC	GALLON	0.2	0.2		
K0029624	WEED CONTROL, TEASEL	GALLON	0.5	0.5		
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	976			976
X4421790	CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)	SQ YD	12	12		

* =SPECIALTY ITEM

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	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES		
SCALE:	SHEET 10 OF 11 SHEETS	STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	13
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SIGNAL	EVP
				100% HSR	100% HSR	100% ELWOOD
				0004	0021	0021
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	12	12		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
* X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1		1	
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1	
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2305		2305	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	103	103		
* Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1		1	
Z0041500	PLUG EXISTING CULVERTS	EACH	1	1		
Z0062456	TEMPORARY PAVEMENT	SO YD	820	820		
	GALVANIZED STEEL CONDUIT, JACKED AND BORED, 4"	FOOT	146		146	
	HOT-MIX ASPHALT BASE COURSE WIDENING, 12 1/4"	SO YD	130	130		
* 13	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1		1	

* =SPECIALTY ITEM

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USER NAME : matthew.libera	DESIGNED - MTL	REVISED -
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PLOT DATE : 3/21/2016	DATE - 03/21/2016	REVISED -

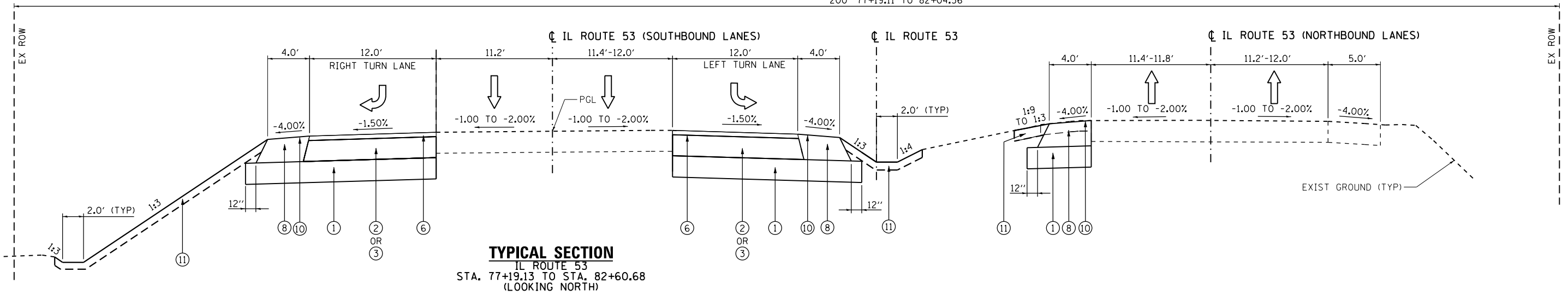
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

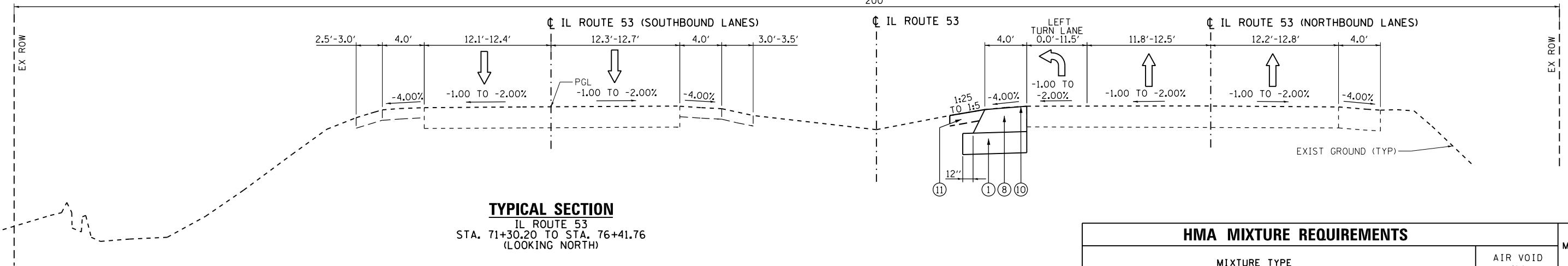
SCALE: SHEET 11 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIH5RR2016-01	WILL.	146	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B32	

160' 82+04.56 TO 82+34.94
 200' TO 160' 82+04.56 TO 82+34.94
 200' 77+19.11 TO 82+04.56



TYPICAL SECTION
 IL ROUTE 53
 STA. 77+19.13 TO STA. 82+60.68
 (LOOKING NORTH)



TYPICAL SECTION
 IL ROUTE 53
 STA. 71+30.20 TO STA. 76+41.76
 (LOOKING NORTH)

PROPOSED PAVEMENT LEGEND

- ① AGGREGATE SUBGRADE IMPROVEMENT 12"
- ② HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0, WIDTH > 6.0'); 12 1/4"
- ③ HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0, WIDTH < 6.0'); 12 1/4"
- ④ HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0, WIDTH > 6.0'); 11 1/2"
- ⑤ HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0, WIDTH < 6.0'); 11 1/2"
- ⑥ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL-9.5 MM); (2" MIN.)
- ⑦ HMA SHOULDER, 13 1/2"
- ⑧ HMA SHOULDER, 14 1/4"
- ⑨ AGGREGATE SHOULDER, 8"
- ⑩ SHOULDER RUMBLE STRIPS, 8 INCH
- ⑪ TOPSOIL FURNISH AND PLACE, 6" SEEDING, CLASS 2A OR SEEDING, CLASS 4
- ⑫ STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑬ RETAINING WALL
- ⑭ STONE RIPRAP, CLASS A4

STRUCTURAL PAVEMENT DESIGN INFORMATION

(IL ROUTE 53)

STRUCTURAL DESIGN TRAFFIC:	YEAR	2035
PV = 8449	SU = 2380	MU = 1071
ROAD / STREET CLASSIFICATION:	CLASS I	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P = 50%	S = 50%	M = 50%
TRAFFIC FACTOR: Actual TF =		
PG GRADE: BINDER = PG 64 -22	SURFACE = PG 64 -22	
SUBGRADE SUPPORT RATING:	SSR = POOR (ASSUMED)	

- NOTES:**
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SOYD/IN.
 - THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE SBS/SBR PG 76 -22 AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE PG 64-22 UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 - FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
 - QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
 - PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS; THICKNESS SHALL BE 8". TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.
 - ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6).
 - PAVEMENT PATCHING WORK REQUIRED FOR DRAINAGE AND THE EXISTING ISLAND REMOVAL LOCATED ON THE WEST LEG OF HOFF ROAD SHALL BE COMPLETED PRIOR TO THE MILLING AND RESURFACING OF HOFF ROAD.

HMA MIXTURE REQUIREMENTS			QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOID @ Ndes		
PAVEMENT RESURFACING (HOFF RD.), RR ACCESS ROAD & APPROACH TO TRACKS			
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, (IL-9.5MM) (MIN. 2")	4% @ 70 GYR.		QC/OA
PAVEMENT RECONSTRUCTION (IL RTE 53)			
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, (IL-9.5MM) (2")	4% @ 70 GYR.		QC/OA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0); 12 1/4"	4% @ 70 GYR.		QCP
-OR- HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0); 12 1/4"	4% @ 70 GYR.		QCP
PAVEMENT RECONSTRUCTION (HOFF RD.)			
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, (IL-9.5MM) (2")	4% @ 70 GYR.		QC/OA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0); 11 1/2"	4% @ 70 GYR.		QCP
-OR- HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0); 11 1/2"	4% @ 70 GYR.		QCP
SHOULDERS			
HMA SURFACE COURSE, MIX "D", N70, (IL-9.5MM) (2")	4% @ 70 GYR.		QC/OA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0) (11 1/2" OR 12 1/4")	4% @ 70 GYR.		QCP
TEMPORARY PAVEMENT (IL RTE 53)			
HMA SURFACE COURSE, MIX "D", N70, (IL-9.5MM) (2")	4% @ 70 GYR.		QC/OA
HMA BINDER COURSE, IL-19.0, N70 (8")	4% @ 70 GYR.		QC/OA
CLASS D PATCHING			
CLASS D PATCH TY IV, 12" (HMA BINDER IL-19.0)	4% @ 70 GYR.		QC/OA
CLASS D PATCH TY II, 12" (SPECIAL) HMA SURFACE COURSE, MIX "D", N70, (IL-9.5MM) (2")	4% @ 70 GYR.		QC/OA
HMA BINDER (IL-19.0), 10"	4% @ 70 GYR.		QC/OA
QMP Designations: Quality Control/Quality Assurance (QC/OA); Quality Control for Performance (QCP); Pay for Performance (PFP)			

FILE NAME: c:\neworking\drw\brn\transport\transport\12465\0162832\sh-typical-002.dgn



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 10.0000 ft / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS	
HOFF ROAD AND IL ROUTE 53	
SCALE: NTS	SHEET 2 OF 2 SHEETS
STA. N/A	TO STA. N/A

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 17
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

STORM SEWER, RETAINING WALL, AND CULVERT REMOVAL										
STATION	STATION	OFFSET	STREET	50100300	50100400	50100500	50104400	50105220	60500060	Z0041500
				REMOVAL OF EXISTING STRUCTURES NO. 1	REMOVAL OF EXISTING STRUCTURES NO. 2	REMOVAL OF EXISTING STRUCTURES NO. 3	CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL	REMOVING INLETS	PLUG EXISTING CULVERTS
				EACH	EACH	EACH	EACH	FOOT	EACH	EACH
57+62.80	58+13.42	LT/RT	HOFF	1*			2			
75+74.00	76+00.00	RT	IL RT 53			1				
76+04.87	76+29.22	RT	IL RT 53		1		2			
77+56.84	77+58.33	LT	IL RT 53				1	8	1	1
TOTALS				1	1	1	5	8	1	1

*INCLUDES 2 BOX CULVERTS (3X3 AND 5X3)

STORM SEWER PIPE SCHEDULE						
START STA	END STA	STREET	OFFSET	20800150	542A0229	59300100
				TRENCH BACKFILL	PIPE CULVERTS, CLASS A, TYPE 1 24"	CONTROLLED LOW-STRENGTH MATERIAL
				CU YD	FOOT	CU YD
77+57	77+58	IL RT 53	LT			3
78+00	78+00	IL RT 53	LT	34	76	
TOTALS				34	76	3

STORM SEWER STRUCTURE SCHEDULE					
START STA	END STA	STREET	OFFSET	54213669	60247170
				PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	DRAINAGE STRUCTURES, TYPE 2 WITH TWO TYPE 22 FRAMES AND GRATES
				EACH	EACH
78+00	78+00	IL RT 53	LT	1	1
TOTALS				1	1

PAVEMENTS - ENTRANCES						
STATION	OFFSET	STREET	ENTRANCE TYPE / WIDTH	35102200	40200800	40603565
				AGGREGATE BASE COURSE, TYPE B 10"	AGGREGATE SURFACE COURSE, TYPE B	POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "E", N70
				SQ YD	TON	TON
55+48.77	RT	HOFF	RR ACCESS / 10'	13	24	1
TOTALS				13	24	1

PAVEMENTS - MAINLINE																		
STATION	STATION	OFFSET	STREET	30300112	31101200	35501330	35501333	35600722	40600290	40603565	44201796	48101600	48203051	48203054	64200108	X4421790	Z0062456	
				HOT-MIX ASPHALT BASE COURSE WIDENING, 12 1/4"	AGGREGATE SUBGRADE IMPROVEMENT 12"	SUBBASE GRANULAR MATERIAL, TYPE B 4"	HOT-MIX ASPHALT BASE COURSE, 11 1/2"	HOT-MIX ASPHALT BASE COURSE, 12 1/4"	HOT-MIX ASPHALT BASE COURSE WIDENING, 11 1/2"	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E" N70	CLASS D PATCHES, TYPE IV, 12 INCH	AGGREGATE SHOULDERS, TYPE B 8"	HOT-MIX ASPHALT SHOULDERS, 13 1/2"	HOT-MIX ASPHALT SHOULDERS, 14 1/4"	SHOULDER RUMBLE STRIPS, 8 INCH	CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)	TEMPORARY PAVEMENT
				SO YD	SO YD	SO YD	SO YD	SO YD	POUND	TON	SO YD	SO YD	SO YD	SO YD	FOOT	SO YD	SO YD	
55+41.40	56+40.97	LT	HOFF		135		44		80					51				
55+41.40	56+40.97	RT	HOFF						69		62			149				
55+41.40	56+40.97	-	HOFF						210	165								
57+44.18	59+74.00	LT	HOFF									83		66				
57+44.18	59+74.00	RT	HOFF									101		67				
57+44.18	59+74.00	-	HOFF		1083		942		999	100								
77+04.25	79+00.00	LT	IL RT 53		372			282	292	29				87	196	12		604
71+30.20	79+00.00	-	IL RT 53	15	888	695		356	401	39				424	956			
79+00.00	82+95.81	LT	IL RT 53	61	502			273	330	33				161	361			
79+00.00	82+95.81	-	IL RT 53	54	778	269		327	383	38				340	757			216
TOTALS				130	3758	964	986	1238	40	2764	404	62	184	333	1012	2270	12	820

FILE NAME: c:\ywork\hunting\matthew.libera\transportation\dm12465\0162832-ast-schedule.dgn



USER NAME = matthew.libera
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 4/12/2016

DESIGNED - MTL
 DRAWN - DAB
 CHECKED - JCM
 DATE - 03/21/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	19
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

LANDSCAPING AND EROSION CONTROL																						
STATION	STATION	STREET	OFFSET	20101000	21101625	25000210	25000310	25000400	25000600	25100115	25100630	25200200	28000250	28000305	28000315	28000400	28000510	28100107	28100109	28200200	K0029614	K0029624
				TEMPORARY FENCE	TOPSOIL FURNISH AND PLACE, 6"	SEEDING, CLASS 2A	SEEDING, CLASS 4	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	EROSION CONTROL BLANKET	SUPPLEMENTAL WATERING	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	AGGREGATE DITCH CHECKS	PERIMETER EROSION BARRIER	INLET FILTERS	STONE RIPRAP, CLASS A4	STONE RIPRAP, CLASS A5	FILTER FABRIC	WEED CONTROL, AQUATIC	WEED CONTROL, TEASEL
FOOT	SO YD	ACRE	ACRE	POUND	POUND	ACRE	SO YD	UNIT	POUND	FOOT	TON	FOOT	EACH	SO YD	SO YD	SO YD	GALLON	GALLON				
55+41.40	58+60.00	HOFF	LT	153	322	0.03	0.04	3	3		322	16				131	1				0.04	0.03
55+41.40	58+60.00	HOFF	RT	87	340	0.05	0.03	4	4		340	17		138		72			229	229	0.03	0.04
58+60.00	59+74.00	HOFF	LT	204	40		0.01				40	2				114					0.01	
58+60.00	59+74.00	HOFF	RT	224	40		0.01				40	2				114					0.01	
71+30.00	74+25.00	IL RT 53	-		285	0.04		4	4	0.02	183	14	3			296						0.04
74+25.00	79+00.00	IL RT 53	LT	120	426	0.07	0.02	6	6		426	21		138	1.2			7		12	0.02	0.07
74+25.00	79+00.00	IL RT 53	-		703	0.11		10	10	0.04	514	35	4			383	4					0.11
74+25.00	79+00.00	IL RT 53	RT	112	189		0.04				189	9						397		397	0.04	
79+00.00	82+60.68	IL RT 53	LT		590	0.11	0.02	10	10		590	30			1.8	214				8	0.02	0.10
79+00.00	82+60.68	IL RT 53	-		682	0.11		10	10	0.03	541	34	3			396						0.11
79+00.00	82+60.68	IL RT 53	RT																			
TOTALS				900	3617	0.52	0.17	47	47	0.09	3185	180	10	276	3.0	1720	5	404	229	646	0.2	0.5

PAVEMENT MARKINGS																	
STATION	STATION	STREET	OFFSET	78000100	78000200				78000400			78000500	78000600	78000650	78100100	78300100	
				THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	THERMOPLASTIC PAVEMENT MARKING - LINE 4"				THERMOPLASTIC PAVEMENT MARKING - LINE 6"			THERMOPLASTIC PAVEMENT MARKING - LINE 8"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	RAISED REFLECTIVE PAVEMENT MARKER	PAVEMENT MARKING REMOVAL	
				SO FT	FOOT				FOOT			FOOT	FOOT	FOOT	EACH	SO FT	
					SOLID, WHITE	SKIP/DASH, WHITE	SOLID, YELLOW	DOUBLE YELLOW, 11"C-C	SOLID, WHITE	DIAGONAL, WHITE	SKIP/DASH, WHITE						
54+92.60	58+60.00	HOFF	LT	61	189					84		90	26	61			
54+92.60	58+60.00	HOFF	RT		208					473		84	84	17		194	
54+92.60	58+60.00	HOFF	-				252					23					
58+60.00	60+09.05	HOFF	LT	61	114									22			
58+60.00	59+74.00	HOFF	RT		114												
58+60.00	59+74.00	HOFF	-				228										
57+14.10	79+00.00	IL RT 53	LT	73	215	45	160		376		132			66	10	15	
56+77.45	79+00.00	IL RT 53	RT	73	104	266	175		306					49	8	89	
56+77.45	79+00.00	IL RT 53	-													2358	
79+00.00	82+60.68	IL RT 53	LT	73	360	240	361		194						6	80	
79+00.00	82+60.68	IL RT 53	RT			174	396									58	
79+00.00	85+63.19	IL RT 53	-													1677	
SUBTOTAL				341	1304	725	1092	480	876	557	132	197	110	215	24	4471	
TOTAL				341	3601				1565		197		110	215	24	4471	

TEMPORARY TRAFFIC CONTROL										
STATION	STATION	STREET	70300210	70300220	70300240	70300280	70400100	70600260	78200011	Z0030850
			TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	TEMPORARY PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 6"	TEMPORARY PAVEMENT MARKING - LINE 24"	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C	TEMPORARY INFORMATION SIGNING
			SO FT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	SO FT
53+14.00	58+60.00	HOFF				267				25.7
58+60.00	60+09.05	HOFF								25.7
67+30.00	79+00.00	IL RT 53	145	5905	441	12	512	1	46	25.7
79+00.00	84+00.00	IL RT 53		3625			50			25.7
84+00.00	88+60.69	IL RT 53		1405						
TOTALS			145	10935	441	279	562	1	46	103

GUARDRAIL										
STATION	STATION	STREET	OFFSET	63000001	63000003	63000025	63100167	78200410	78201000	
				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, TYPE A 9 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	
				FOOT	FOOT	FOOT	EACH	EACH	EACH	
55+41.70	59+80.22	HOFF	LT	187.5		25	1	11	1	
55+41.70	59+74.00	HOFF	RT	225.0		25	1	14	1	
75+47.90	75+85.36	IL 53	RT		37.5			2		
TOTALS				412.5	37.5	50	2	27	2	

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USER NAME: matthew.libera	DESIGNED: MTL	REVISED:
	DRAWN: DAB	REVISED:
PLOT SCALE: 48.0000' / in.	CHECKED: JCM	REVISED:
PLOT DATE: 4/12/2016	DATE: 03/21/2016	REVISED:









STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

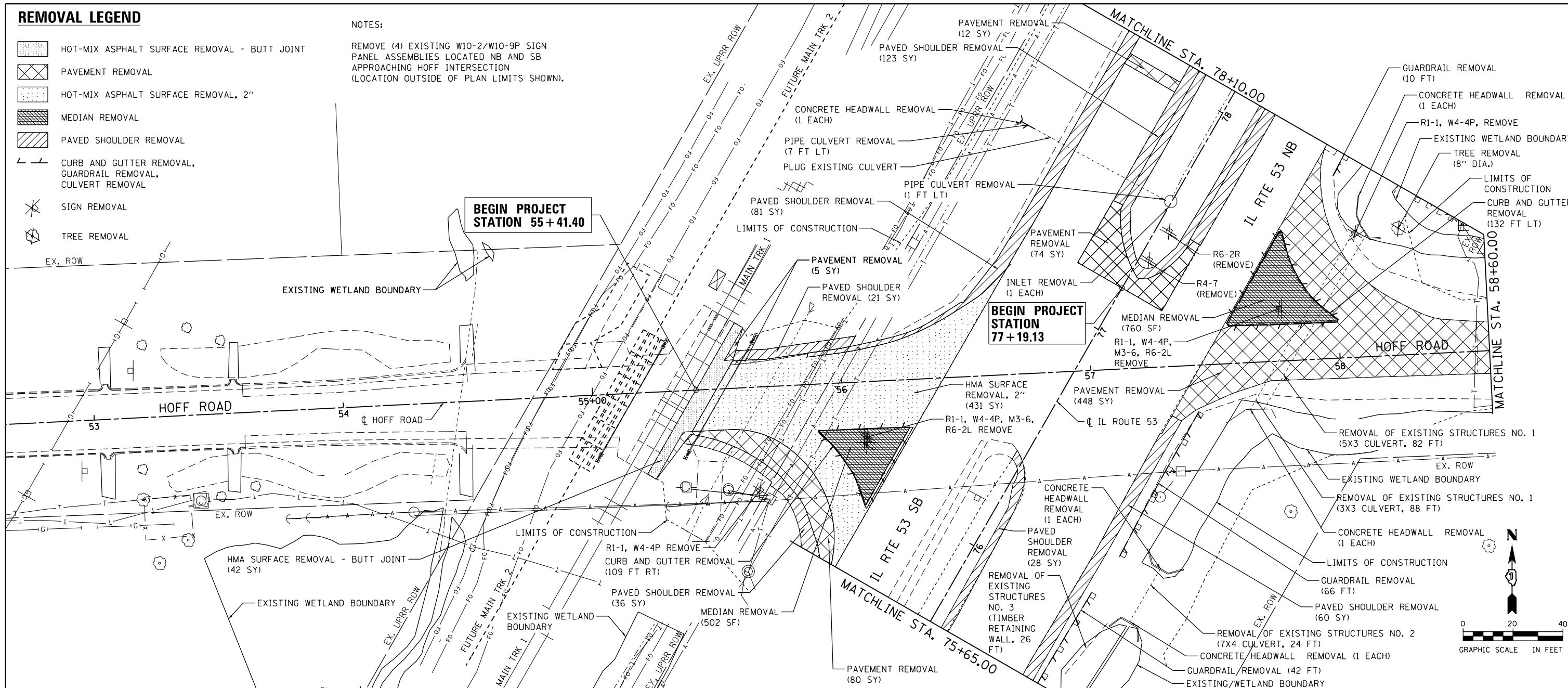
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	21
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

REMOVAL LEGEND

-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
-  PAVEMENT REMOVAL
-  HOT-MIX ASPHALT SURFACE REMOVAL, 2"
-  MEDIAN REMOVAL
-  PAVED SHOULDER REMOVAL
-  CURB AND GUTTER REMOVAL, GUARDRAIL REMOVAL, CULVERT REMOVAL
-  SIGN REMOVAL
-  TREE REMOVAL

NOTES:

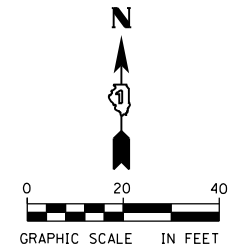
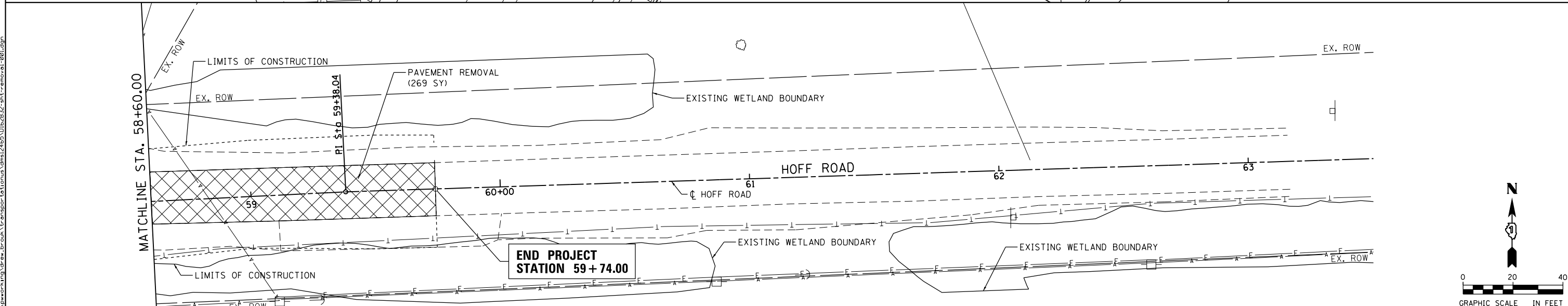
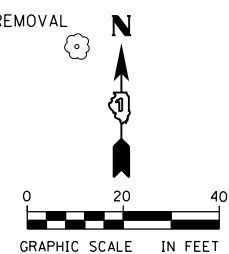
REMOVE (4) EXISTING W10-2/W10-9P SIGN PANEL ASSEMBLIES LOCATED NB AND SB APPROACHING HOFF INTERSECTION (LOCATION OUTSIDE OF PLAN LIMITS SHOWN).



BEGIN PROJECT STATION 55+41.40

BEGIN PROJECT STATION 77+19.13

END PROJECT STATION 59+74.00



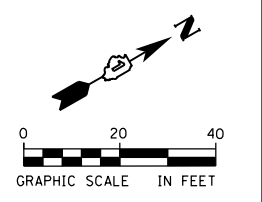
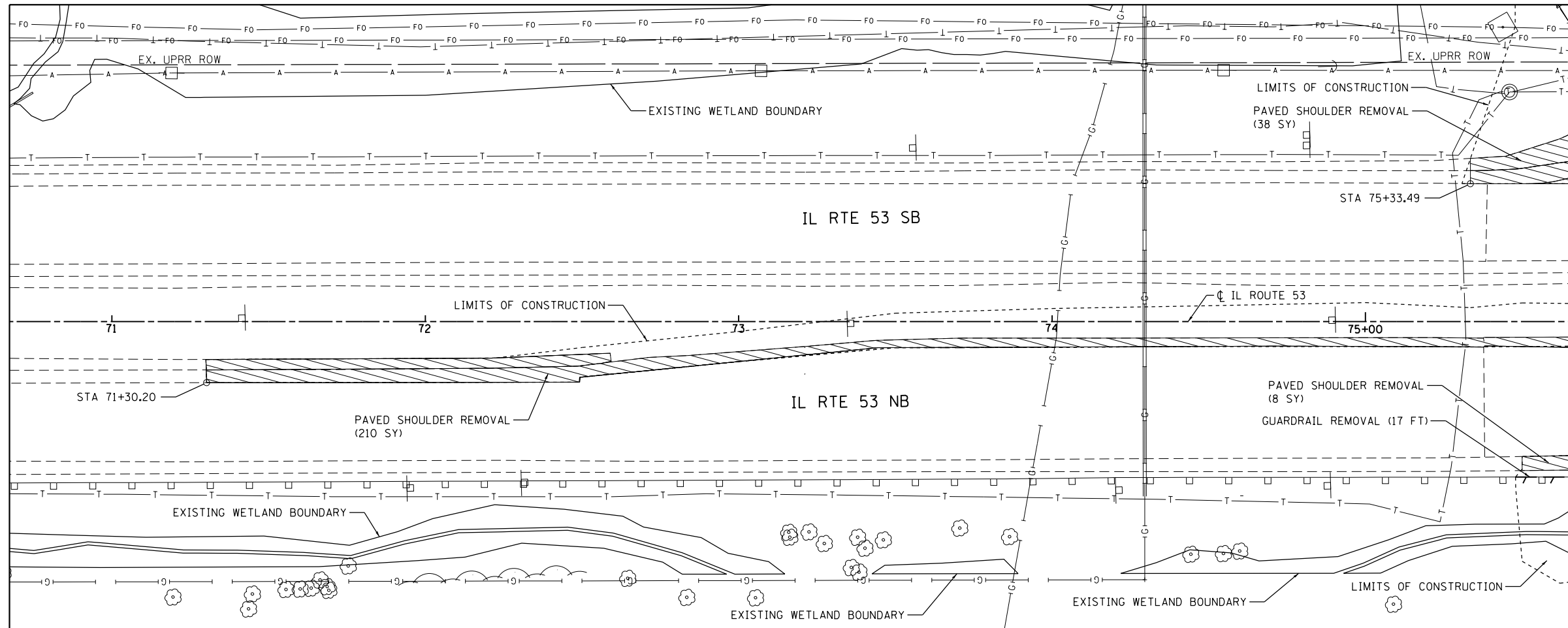
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	DRAWN - DAB	REVISED -
PLOT SCALE = 48.0000 ft / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLANS

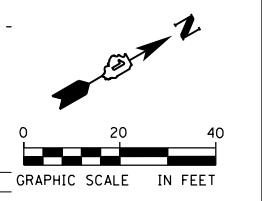
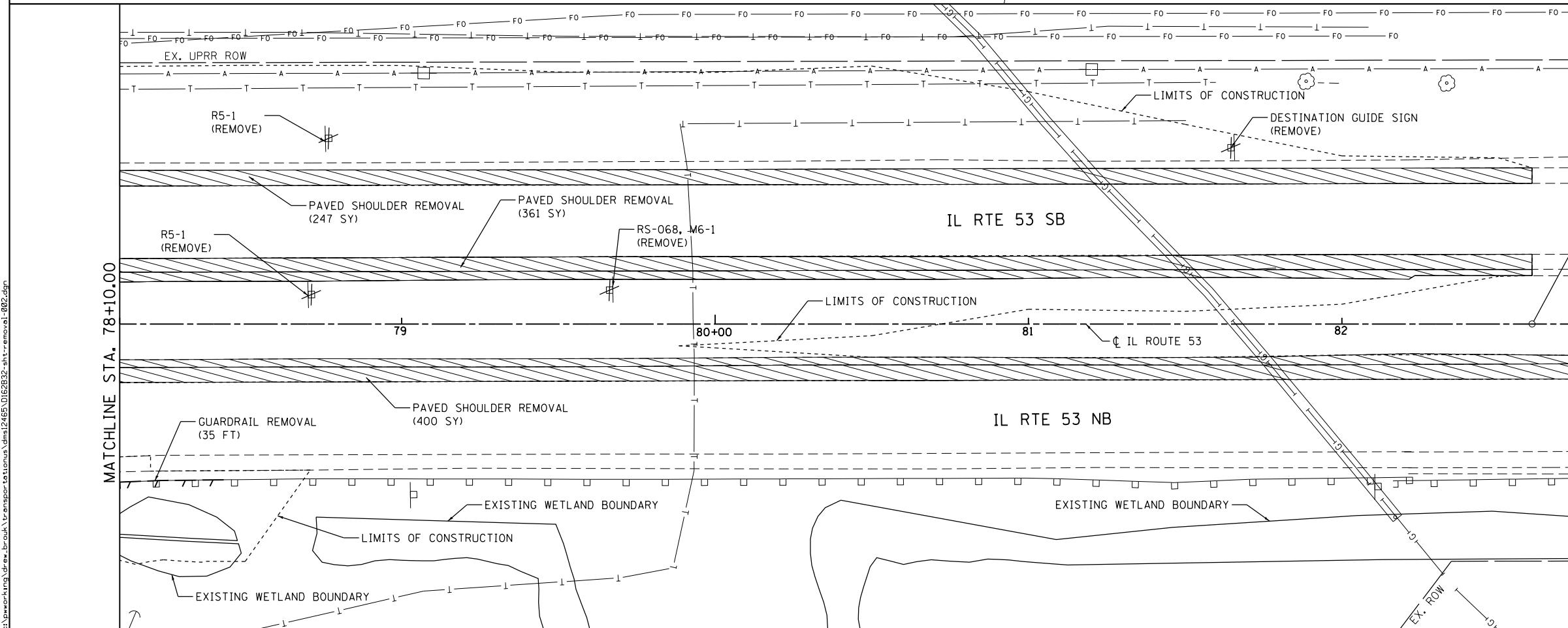
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 55+41.40 TO STA. 59+74.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	23
			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				



NOTES:
 REMOVE (4) EXISTING W10-2/W10-9P SIGN PANEL ASSEMBLIES LOCATED NB AND SB APPROACHING HOFF INTERSECTION (LOCATION OUTSIDE OF PLAN LIMITS SHOWN).

- REMOVAL LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
 - PAVEMENT REMOVAL
 - HOT-MIX ASPHALT SURFACE REMOVAL, 2"
 - MEDIAN REMOVAL
 - PAVED SHOULDER REMOVAL
 - CURB AND GUTTER REMOVAL, GUARDRAIL REMOVAL, CULVERT REMOVAL
 - SIGN REMOVAL
 - TREE REMOVAL



END PROJECT STATION 82+60.68



USER NAME = drew.brouk
 DESIGNED - MTL
 DRAWN - DAB
 CHECKED - JCM
 DATE - 03/21/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLANS

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 78+10.00 TO STA. 82+60.69

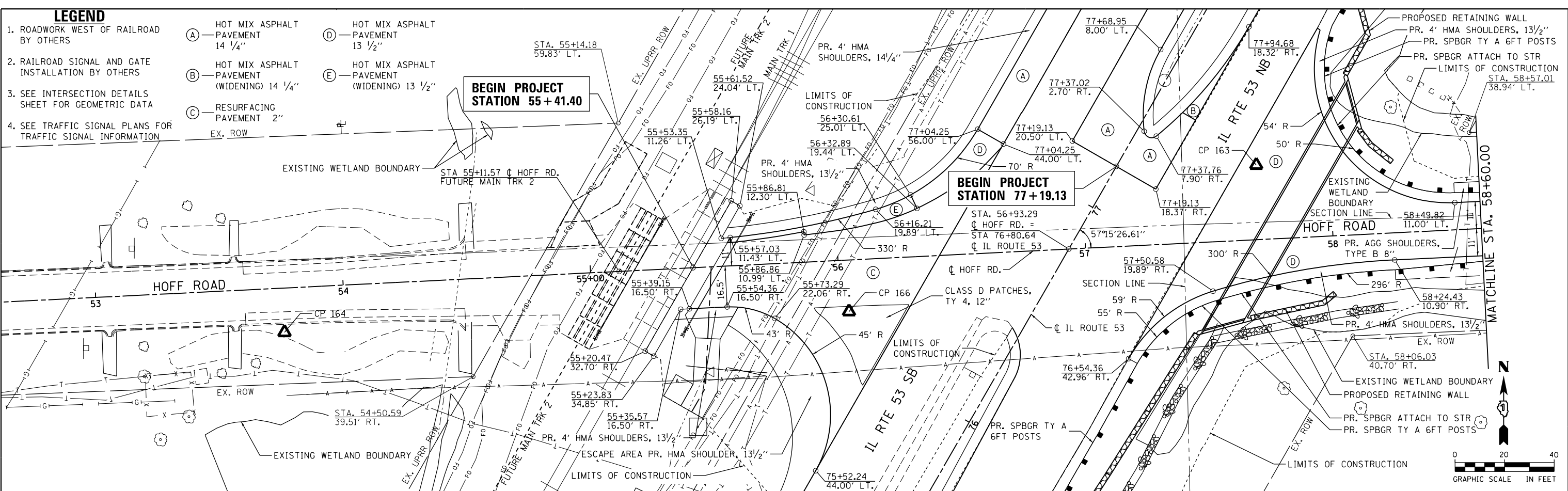
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	24
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

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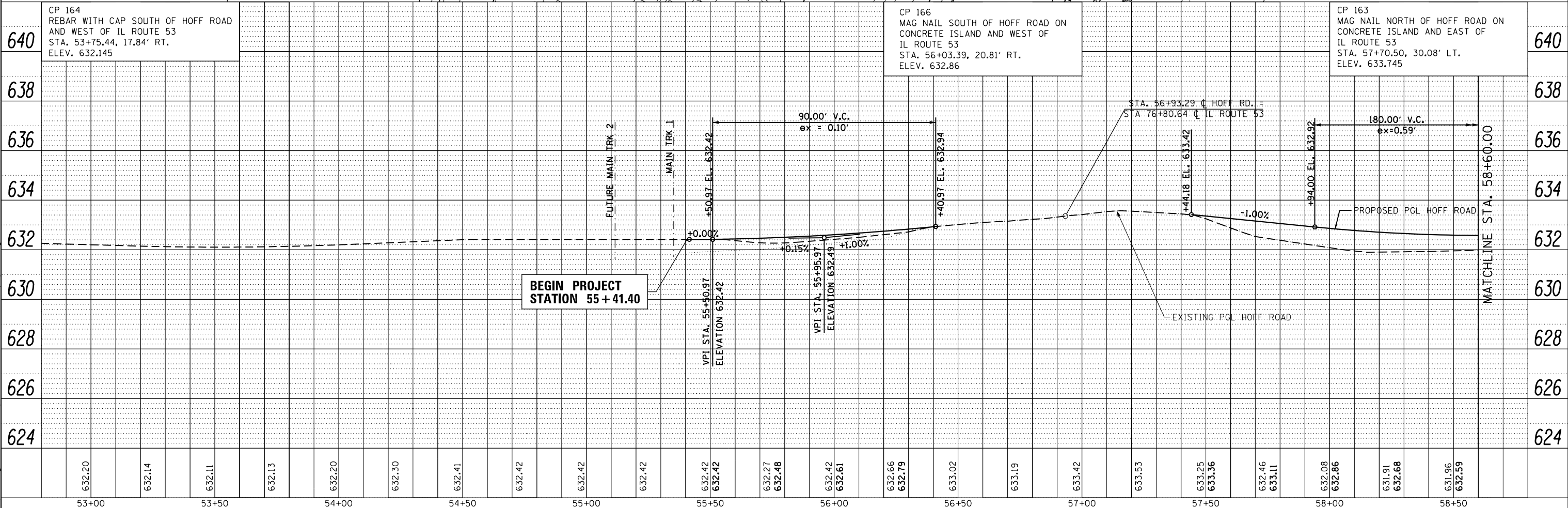
LEGEND

- 1. ROADWORK WEST OF RAILROAD BY OTHERS
 - 2. RAILROAD SIGNAL AND GATE INSTALLATION BY OTHERS
 - 3. SEE INTERSECTION DETAILS SHEET FOR GEOMETRIC DATA
 - 4. SEE TRAFFIC SIGNAL PLANS FOR TRAFFIC SIGNAL INFORMATION
- (A) HOT MIX ASPHALT PAVEMENT 14 1/4"
 - (B) HOT MIX ASPHALT PAVEMENT (WIDENING) 14 1/4"
 - (C) RESURFACING PAVEMENT 2"
 - (D) HOT MIX ASPHALT PAVEMENT 13 1/2"
 - (E) HOT MIX ASPHALT PAVEMENT (WIDENING) 13 1/2"

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



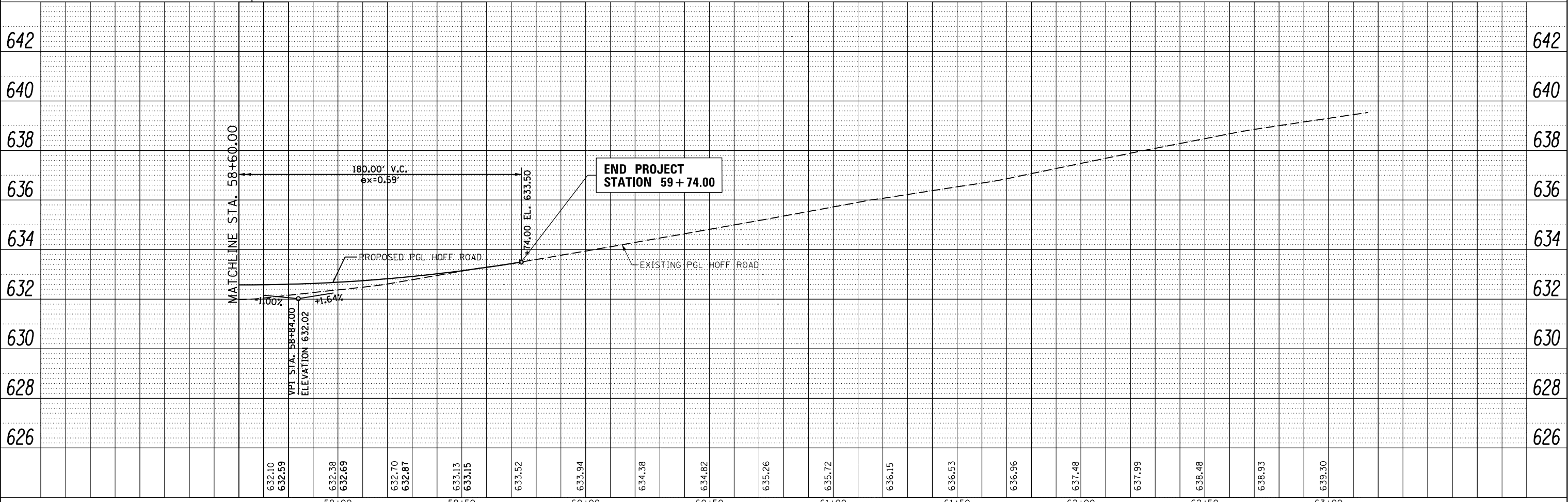
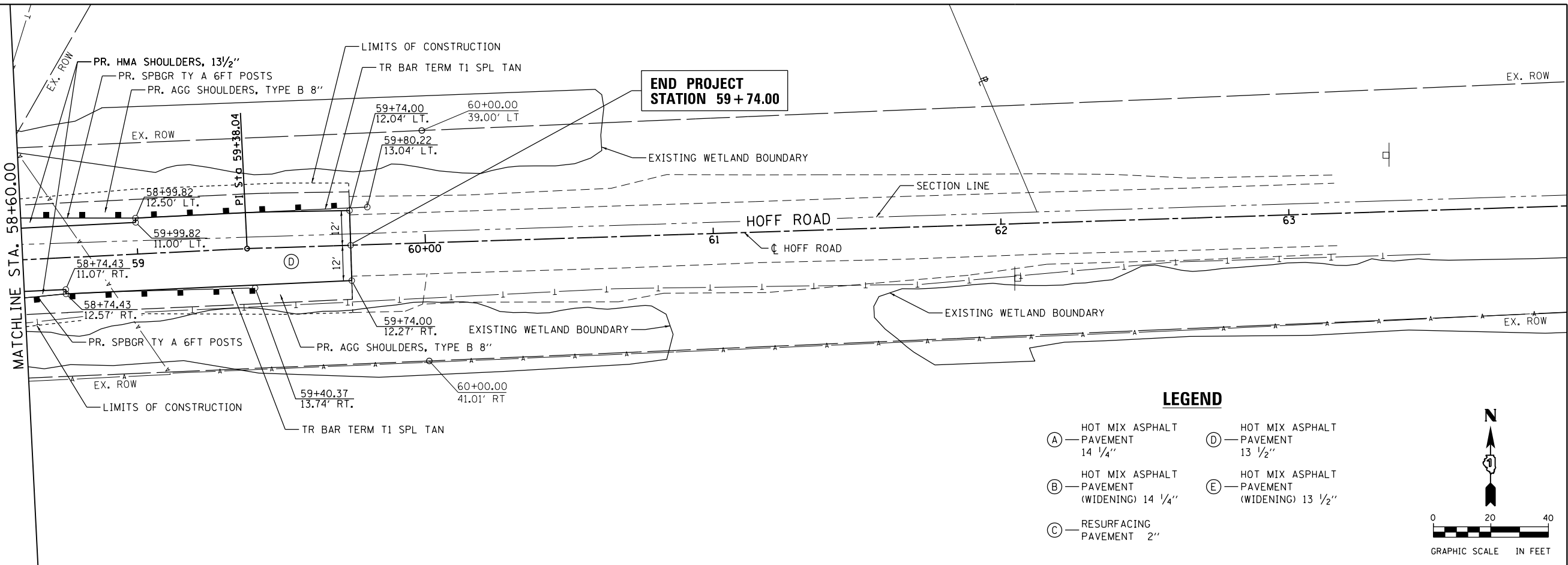
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	NO. FILE NAME	



	USER NAME = drew.brouk	DESIGNED - MTL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLANS AND PROFILES HOFF ROAD		F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 25
	PLOT SCALE = 40.0000 ft / in. PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -		SCALE: 1"=20'	SHEET 1 OF 5 SHEETS	STA. 55+41.40 TO STA. 58+60.00	CONTRACT NO. 62B32 ILLINOIS FED. AID PROJECT			

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
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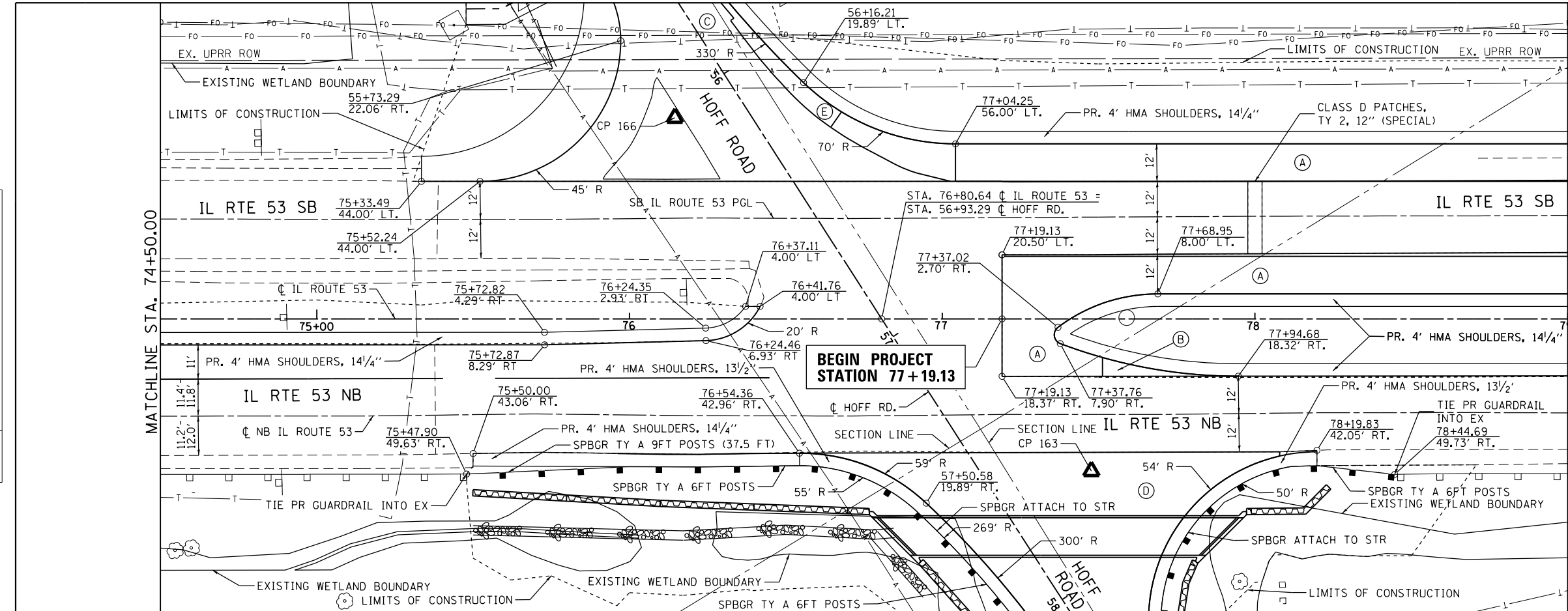


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	PLOT SCALE = 40.0000 ft / in.	DRAWN - DAB	REVISED -		846	DIHSRR2016-01	WILL	146	26		
	PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -		CONTRACT NO. 62B32						
		DATE - 03/21/2016	REVISED -		ILLINOIS FED. AID PROJECT						

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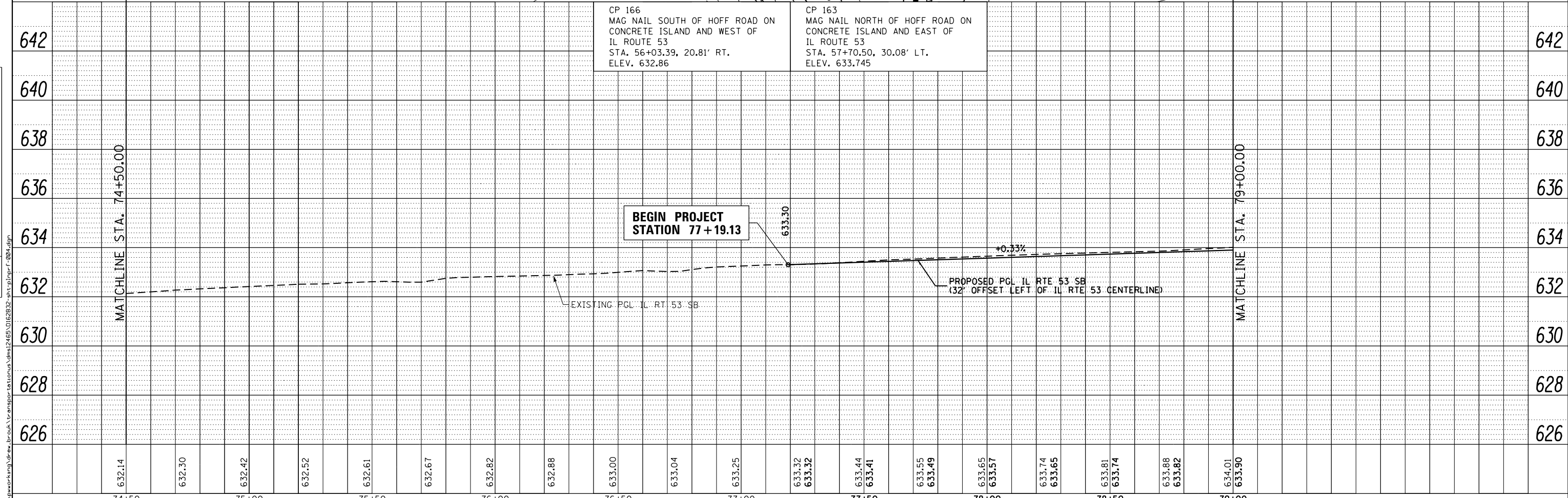
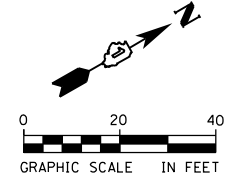
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	



LEGEND

(A) — HOT MIX ASPHALT PAVEMENT 14 1/4"	(D) — HOT MIX ASPHALT PAVEMENT 13 1/2"
(B) — HOT MIX ASPHALT PAVEMENT (WIDENING) 14 1/4"	(E) — HOT MIX ASPHALT PAVEMENT (WIDENING) 13 1/2"
(C) — RESURFACING PAVEMENT 2"	



74+50	75+00	75+50	76+00	76+50	77+00	77+50	78+00	78+50	79+00																	
632.14	632.30	632.42	632.52	632.61	632.67	632.82	632.88	633.00	633.04	633.25	633.32	633.32	633.44	633.41	633.55	633.49	633.65	633.57	633.74	633.65	633.81	633.74	633.88	633.82	634.01	633.90



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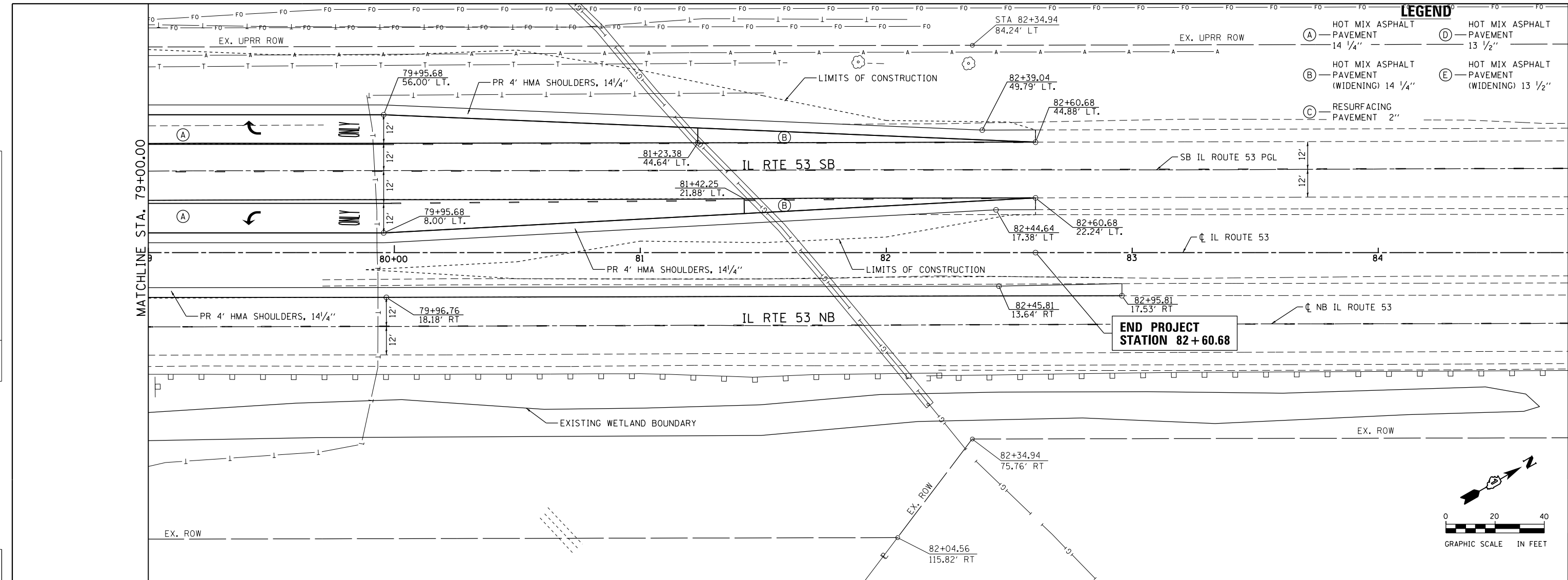
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS AND PROFILES	
ILLINOIS ROUTE 53	
SCALE: 1"=20'	SHEET 4 OF 5 SHEETS STA. 74+50.00 TO STA. 79+00.00

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 28
CONTRACT NO. 62B32				
ILLINOIS FED. AID PROJECT				

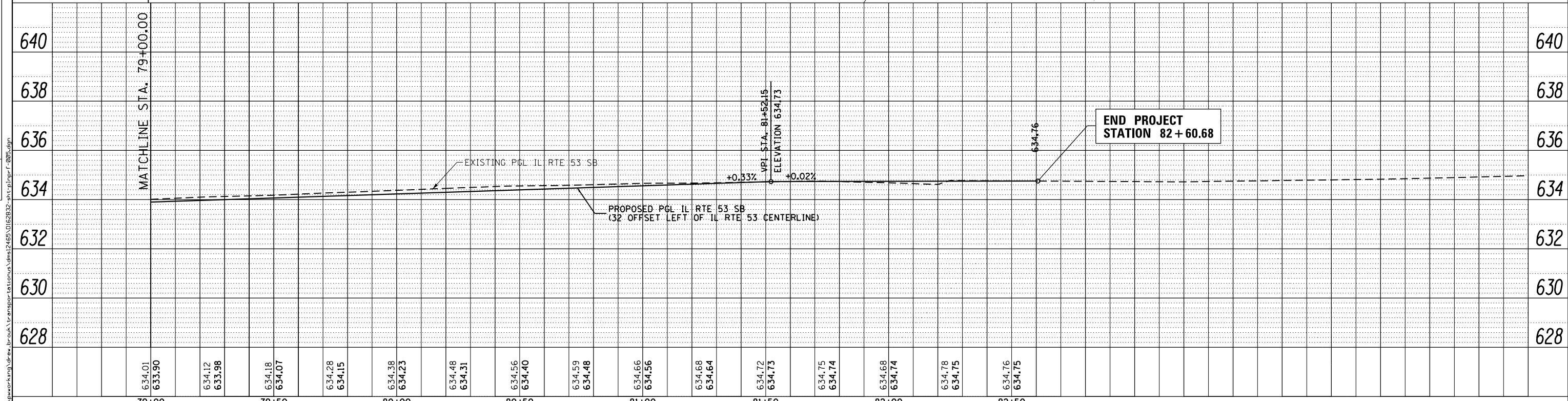
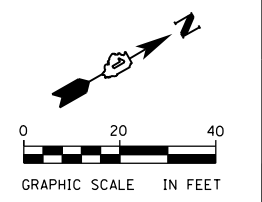
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	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
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	NOTE BOOK NO.	
	FILE NAME	

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



LEGEND

(A) HOT MIX ASPHALT PAVEMENT 14 1/4"	(D) HOT MIX ASPHALT PAVEMENT 13 1/2"
(B) HOT MIX ASPHALT PAVEMENT (WIDENING) 14 1/4"	(E) HOT MIX ASPHALT PAVEMENT (WIDENING) 13 1/2"
(C) RESURFACING PAVEMENT 2"	



79+00	79+50	80+00	80+50	81+00	81+50	82+00	82+50	82+60.68						
634.01 633.90	634.12 633.98	634.18 634.07	634.28 634.15	634.38 634.23	634.48 634.31	634.56 634.40	634.59 634.48	634.66 634.56	634.68 634.64	634.72 634.73	634.75 634.74	634.68 634.74	634.78 634.75	634.76 634.75



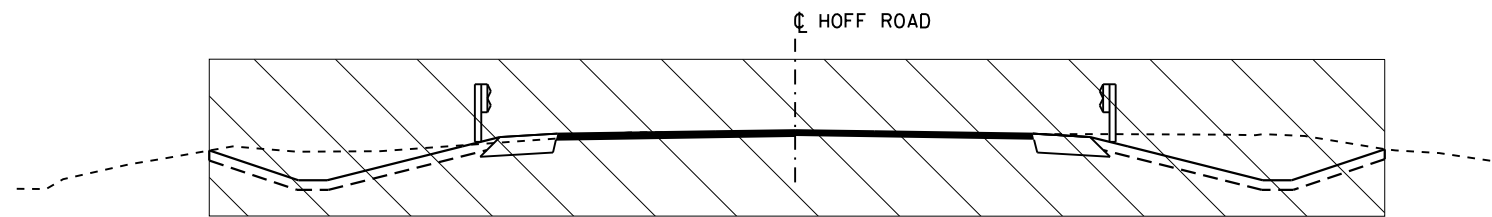
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS AND PROFILES	
ILLINOIS ROUTE 53	
SCALE: 1"=20'	SHEET 5 OF 5 SHEETS
STA. 79+00.00 TO STA. 82+60.68	

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 29
CONTRACT NO. 62B32				ILLINOIS FED. AID PROJECT

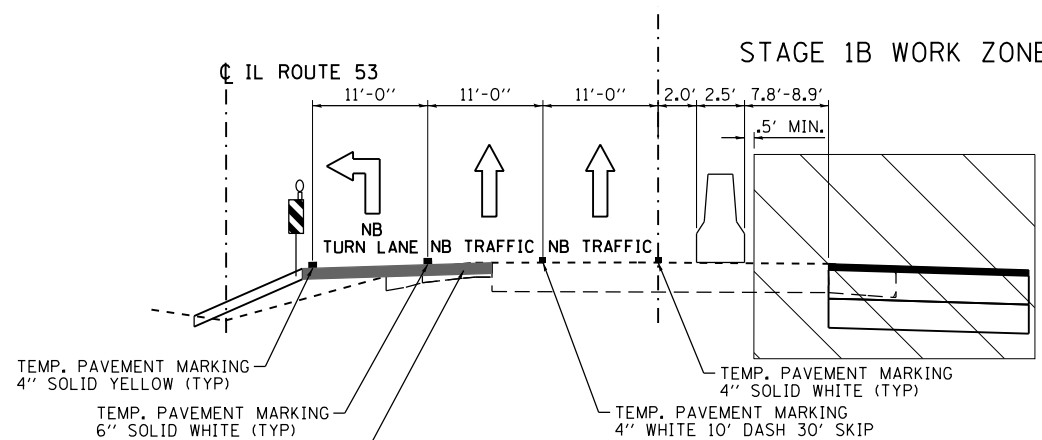
STAGE 1B WORK ZONE



TYPICAL SECTION STAGE 1B

HOFF ROAD
STA. 57+44.18 TO STA. 59+74.00
(LOOKING EAST)

STAGE 1B WORK ZONE

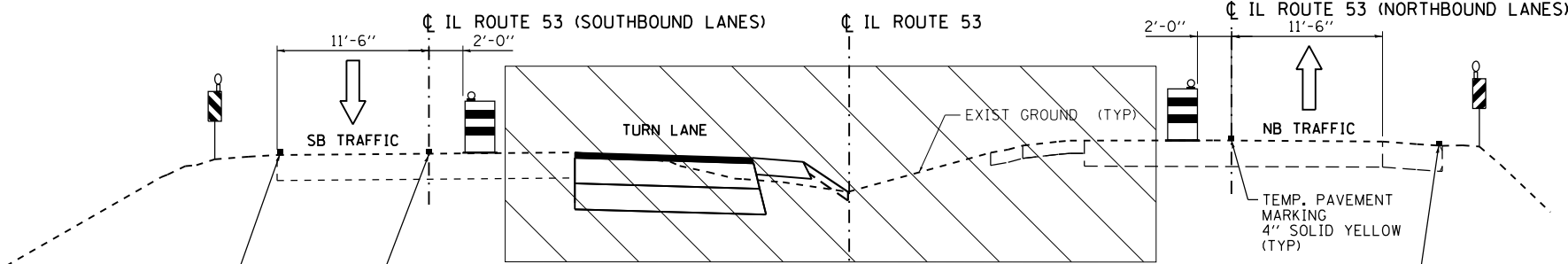


TYPICAL SECTION STAGE 1B

IL ROUTE 53
STA. 75+64.30 TO STA. 79+70.77
(LOOKING NORTH)

TEMPORARY PAVEMENT (PLACED IN STAGE 1A)
HMA SURFACE COURSE, MIX D, N70 (IL-9.5MM) (2")
HMA BINDER COURSE, IL-19.0, N70 (8")
WITH 4" SUBBASE GRANULAR MATERIAL TYPE B

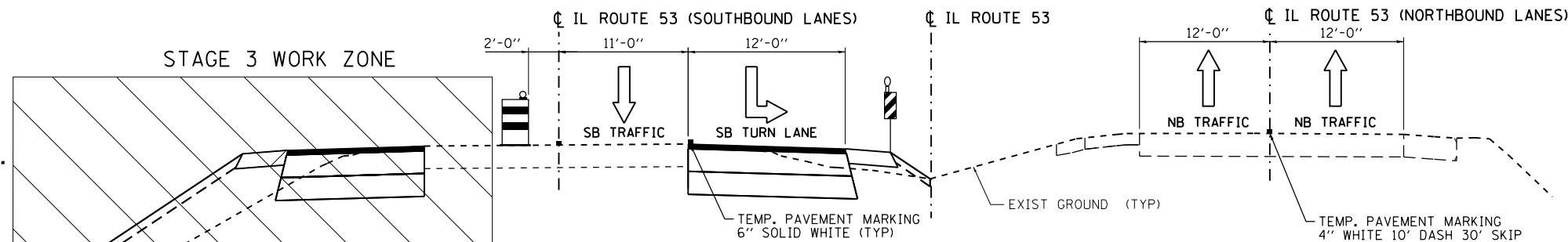
STAGE 2 WORK ZONE



TYPICAL SECTION STAGE 2

IL ROUTE 53
STA. 77+19.13 TO STA. 82+60.68
(LOOKING NORTH)

STAGE 3 WORK ZONE



TYPICAL SECTION STAGE 3

IL ROUTE 53
STA. 77+19.13 TO STA. 82+60.68
(LOOKING NORTH)

GENERAL STAGING NOTES

SEE STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEET 1 FOR GENERAL STAGING NOTES, INCLUDING SEWER CONSTRUCTION AND COORDINATION OF RAILROAD OPERATIONS.

ALL CONSTRUCTION WORK LOCATED ON THE WEST LEG OF HOFF ROAD SHALL BE PERFORMED AFTER DAYLIGHT HOURS. FOR STAGE 1B THROUGH STAGE 3 ACCESS TO THE ABRAHAM LINCOLN NATIONAL CEMETERY SHALL BE MAINTAINED UTILIZING GUIDANCE FROM STANDARD DETAIL DRAWINGS 701206-03 AND 701301-04. A STOP SIGN WITH STOP BAR SHALL REMAIN IN PLACE FOR EAST BOUND HOFF RD. TRAFFIC APPROACHING IL 53 THROUGHOUT CONSTRUCTION.

COORDINATE WITH ABRAHAM LINCOLN NATIONAL CEMETERY FOR LIMITED ACCESS.

STAGING NOTES - HOFF ROAD

STAGE 1B TRAFFIC:
CLOSE TRAFFIC THROUGH EAST LEG OF HOFF ROAD. UTILIZE DETOUR.

STAGE 1B CONSTRUCTION:
REMOVE EXISTING PAVEMENT AND SHOULDERS FROM EAST LEG OF HOFF ROAD AND COMPLETE CONSTRUCTION, STA 57+44.18 TO STA 59+74.00. COMPLETE PROPOSED CONSTRUCTION OF CULVERT, RETAINING WALL, AND DRIVEWAY ALONG EAST SIDE OF IL 53.

STAGING NOTES - IL RT 53

STAGE 1A TRAFFIC:
CLOSE WEST MOST NORTHBOUND LANE, EAST NORTHBOUND LANE OPEN FOR THROUGH TRAFFIC, WEST NB THROUGH LANE UTILIZED AS LEFT TURN LANE. USE TRAFFIC CONTROL UTILIZING STANDARD DETAIL DRAWING 701422-07 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH. SEE STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS 4 AND 5 FOR PAVEMENT STRIPING.

STAGE 1A CONSTRUCTION:
CONSTRUCT TEMPORARY PAVEMENT NEEDED FOR STAGE 1B ON THE WEST SIDE OF EXISTING NORTHBOUND IL 53.

STAGE 1B TRAFFIC:
SHIFT EAST MOST NORTHBOUND IL 53 LANE 12' AND THE LEFT TURN LANE AND CENTER LANE 11' TO THE WEST. USE TEMPORARY PAVEMENT FROM STA 71+30.20 TO STA 82+95.81 TO PROVIDE TRANSITIONS AND MAINTAIN TWO 11' WIDE NORTHBOUND THROUGH LANES FROM STA 75+64.30 TO 78+69.73 AND A 11' LEFT TURN LANE TO HOFF ROAD. SEE STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS 6 & 7 FOR PAVEMENT STRIPING OF THE NORTHBOUND LANE SHIFT. TEMPORARY CONCRETE BARRIER SHALL NOT BE PINNED.

STAGE 1B CONSTRUCTION:
COMPLETE PROPOSED CONSTRUCTION OF RETAINING WALL AND REMOVAL OF CULVERT AND ENTRANCE ALONG EAST SIDE OF IL 53.

STAGE 1C TRAFFIC:
USE TRAFFIC CONTROL UTILIZING STANDARD DETAIL DRAWING 701422-07 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH. NB LEFT TURN LANE UTILIZES THE WEST THROUGH LANE. NB THROUGH TRAFFIC IS REDUCED TO ONE LANE.

STAGE 1C CONSTRUCTION:
RECONSTRUCT THE PAVED SHOULDER ON THE WEST SIDE OF NB IL 53 FROM STA 71+30.20 TO STA 76+41.76 THAT WAS REMOVED DURING STAGE 1A.

STAGE 2 TRAFFIC:
REDUCE TO ONE THROUGH LANE FOR NB AND SB TRAFFIC ON IL RT 53. CLOSE LANES ADJACENT TO MEDIAN. MAINTAIN NB IL 53 LEFT TURN LANE TO HOFF RD. SEE STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS 9 THROUGH 11 FOR PAVEMENT STRIPING OF THE LANE SHIFTS.

STAGE 2 CONSTRUCTION:
REMOVE PAVEMENT AND SHOULDERS ADJACENT TO IL RT 53 MEDIAN. CONSTRUCT SOUTHBOUND LEFT TURN LANE AND SHOULDERS ADJACENT TO MEDIAN, STA 77+19.11 TO 82+95.81. PARTIALLY CONSTRUCT THE CULVERT AT STA. 78+00.

STAGE 3 TRAFFIC:
OPEN THE SB LEFT TURN LANE CONSTRUCTED IN STAGE 2. SHIFT THE OPEN SB THROUGH LANE TO BE ADJACENT TO THE TURN LANE. CLOSE THE WEST LANE OF SB TRAFFIC ON IL ROUTE 53 FROM STA 82+60.68 TO THE HOFF ROAD INTERSECTION. SEE THE STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS 12 AND 13 FOR PAVEMENT STRIPING OF THE SOUTHBOUND LANE SHIFT. OPEN BOTH NB THROUGH LANES FOR TRAFFIC.

STAGE 3 CONSTRUCTION:
REMOVE SHOULDER FROM WEST SIDE OF SB LANE OF IL ROUTE 53. CONSTRUCT RIGHT TURN LANE AND SHOULDER STA 77+19.11 TO 82+60.68. CONSTRUCT THE REMAINING PORTION OF THE CULVERT AT STA. 78+00. ONCE THE PROPOSED CULVERT IS IN PLACE THE EXISTING CULVERT RUNNING ACROSS IL 53 CAN BE PLUGGED.

LEGEND

- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT MARKING LINE (SEE MOT PLANS FOR TYPE, COLOR AND LOCATION)
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING LIGHT (50' C-C TYPICAL) (25' C-C TYPICAL ALONG W LEG OF HOFF)
- DOUBLE VERTICAL PANEL MOUNTED BACK TO BACK WITH STEADY BURNING MONO-DIRECTIONAL LIGHT (50' C-C TYPICAL)

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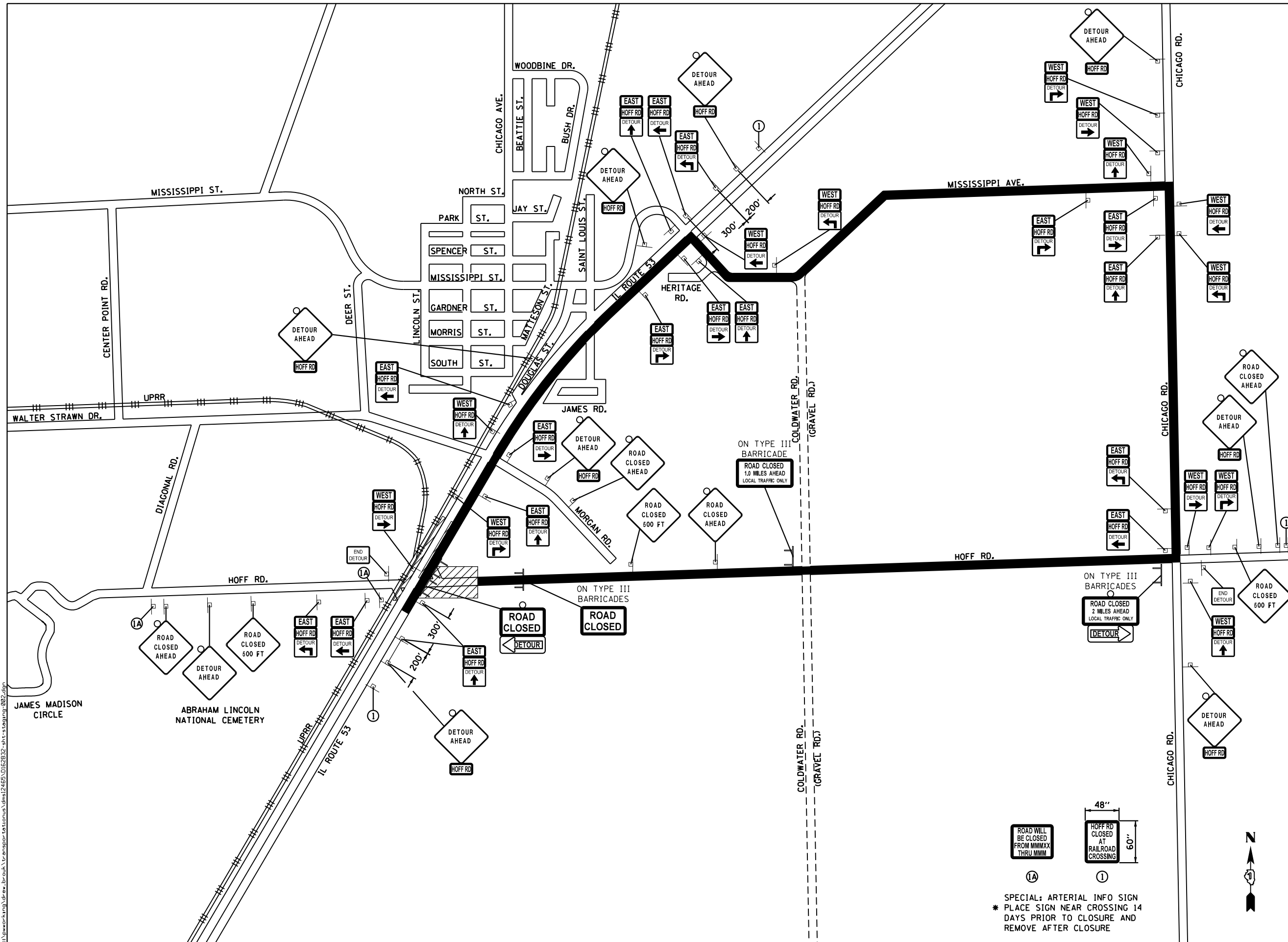
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
TYPICAL SECTIONS**

SCALE: NTS SHEET 2 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	31
CONTRACT NO. 62B32				
ILLINOIS FED. AID PROJECT				



SIGN DESIGNATION

	CONSTRUCTION WORK AREA
	R11-2 48X30
	R11-3a 60X30 LOCAL TRAFFIC ONLY
	W20-2A 48X48
	W20-3 48X48
	W20-3A 48X48
	M3-2 24X12
	M3-4 24X12
	M4-8a 24X12
	M4-8 24X12
	M4-10R 48X18
	M4-10L 48X18
	M4-9 21X15
	M4-9 21X15
	M4-9 21X15
	M4-9 21X15
	M4-9 21X15
	M4-9 21X15
	TYPE III BARRICADE WITH
	WARNING LIGHT

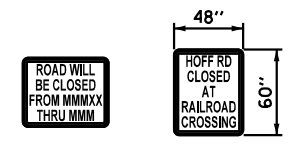
NOTE:
ALL DETOUR RELATED SIGNS DESIGNATED WITH THE "W" AND "M" PREFIX SHALL BE BLACK LETTERING ON FLUORESCENT ORANGE.

ALL WARNING SIGNS ARE REQUIRED TO BE 48"X48".

FIRST TWO WARNING SIGNS MUST BE EQUIPPED WITH AMBER BEACON.

SIGN SPACING PER DISTRICT DETAIL TC-21.

ALL SIGNS SHALL BE POST MOUNTED IN THE GROUND PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND PER HIGHWAY STANDARD 701901.



SPECIAL: ARTERIAL INFO SIGN
* PLACE SIGN NEAR CROSSING 14 DAYS PRIOR TO CLOSURE AND REMOVE AFTER CLOSURE



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 100.0000 ft / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
HOFF RD. - DETOUR PLAN

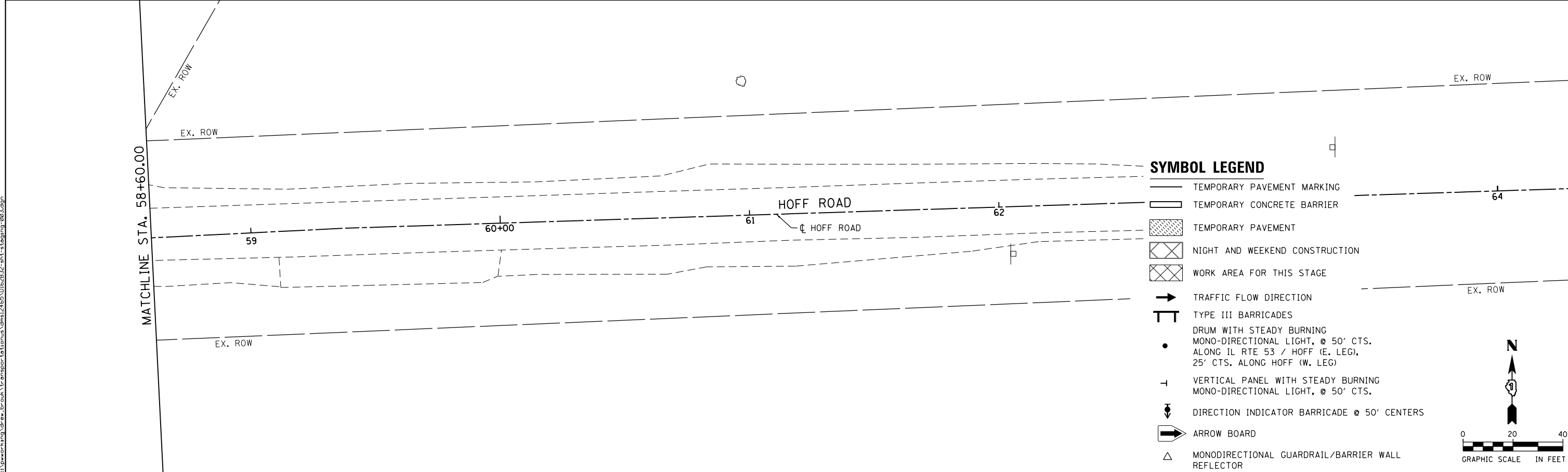
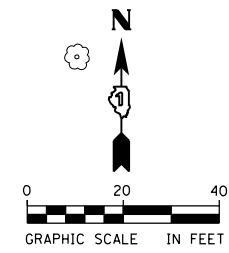
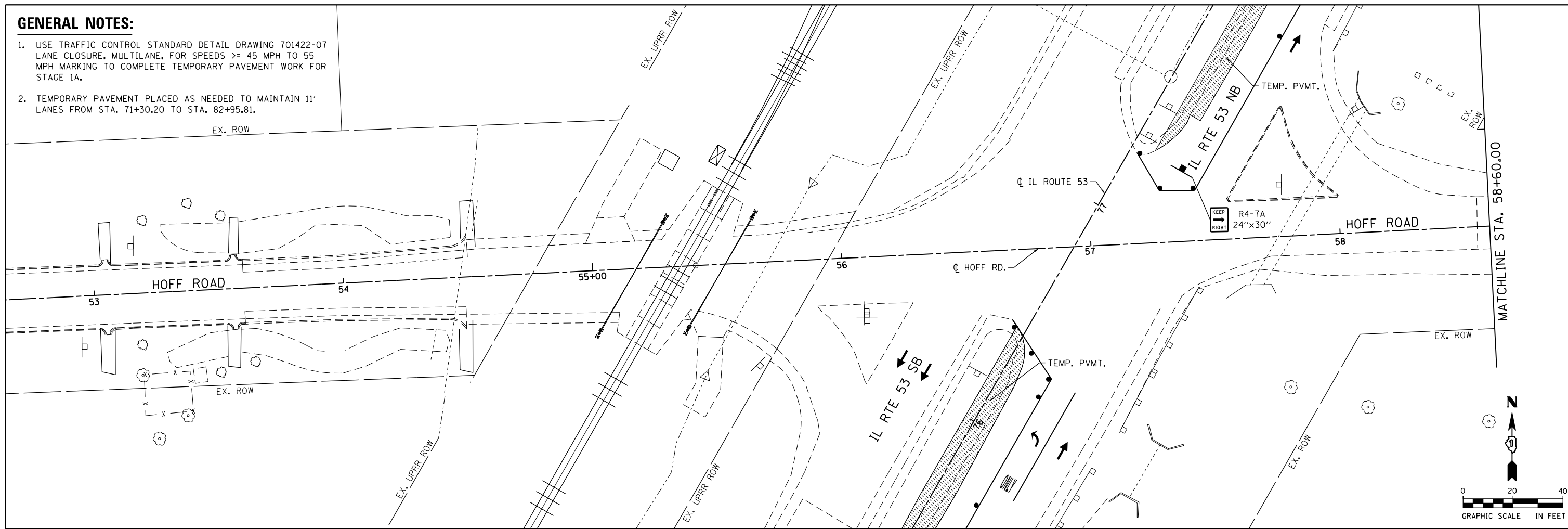
SCALE: NTS SHEET 3 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	32
				CONTRACT NO. 62B32

ILLINOIS FED. AID PROJECT

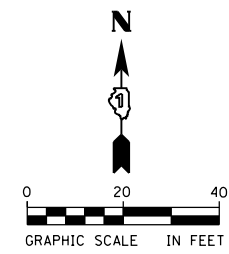
GENERAL NOTES:

1. USE TRAFFIC CONTROL STANDARD DETAIL DRAWING 701422-07 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH MARKING TO COMPLETE TEMPORARY PAVEMENT WORK FOR STAGE 1A.
2. TEMPORARY PAVEMENT PLACED AS NEEDED TO MAINTAIN 11' LANES FROM STA. 71+30.20 TO STA. 82+95.81.



SYMBOL LEGEND

- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- TEMPORARY PAVEMENT
- NIGHT AND WEEKEND CONSTRUCTION
- WORK AREA FOR THIS STAGE
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
- VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
- DIRECTION INDICATOR BARRICADE @ 50' CENTERS
- ARROW BOARD
- MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 1A**

SCALE: 1"=20' SHEET 4 OF 13 SHEETS STA. 55+41.40 TO STA. 59+74.00

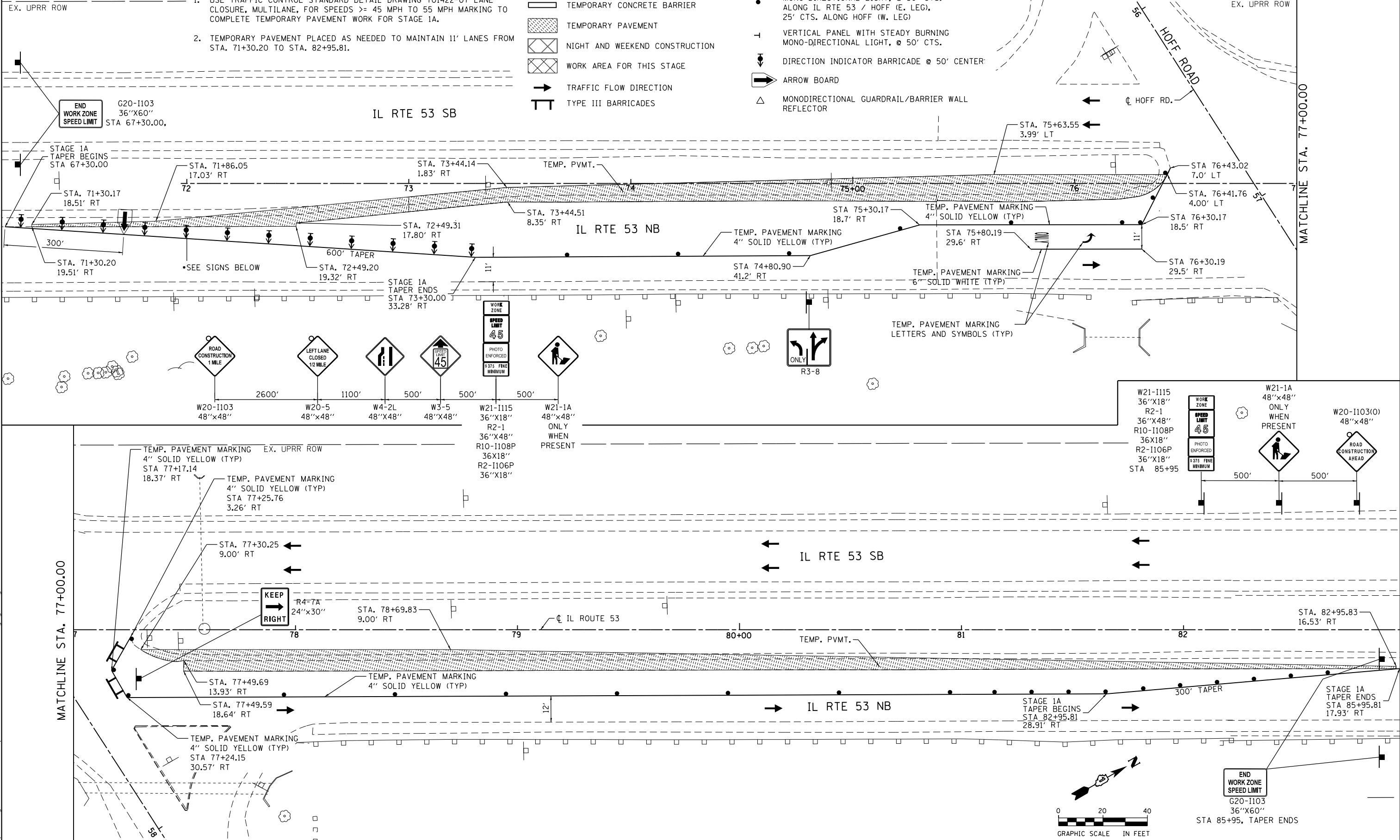
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			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

- USE TRAFFIC CONTROL STANDARD DETAIL DRAWING 701422-07 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH MARKING TO COMPLETE TEMPORARY PAVEMENT WORK FOR STAGE 1A.
- TEMPORARY PAVEMENT PLACED AS NEEDED TO MAINTAIN 11' LANES FROM STA. 71+30.20 TO STA. 82+95.81.

SYMBOL LEGEND

- TEMPORARY PAVEMENT MARKING
- ▭ TEMPORARY CONCRETE BARRIER
- ▨ TEMPORARY PAVEMENT
- ▧ NIGHT AND WEEKEND CONSTRUCTION
- ▩ WORK AREA FOR THIS STAGE
- ➔ TRAFFIC FLOW DIRECTION
- ⏏ TYPE III BARRICADES
- DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
- ⊥ VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
- ⏏ DIRECTION INDICATOR BARRICADE @ 50' CENTER
- ➔ ARROW BOARD
- △ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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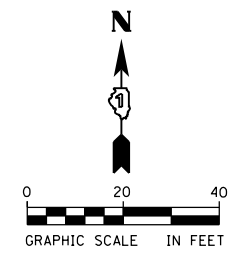
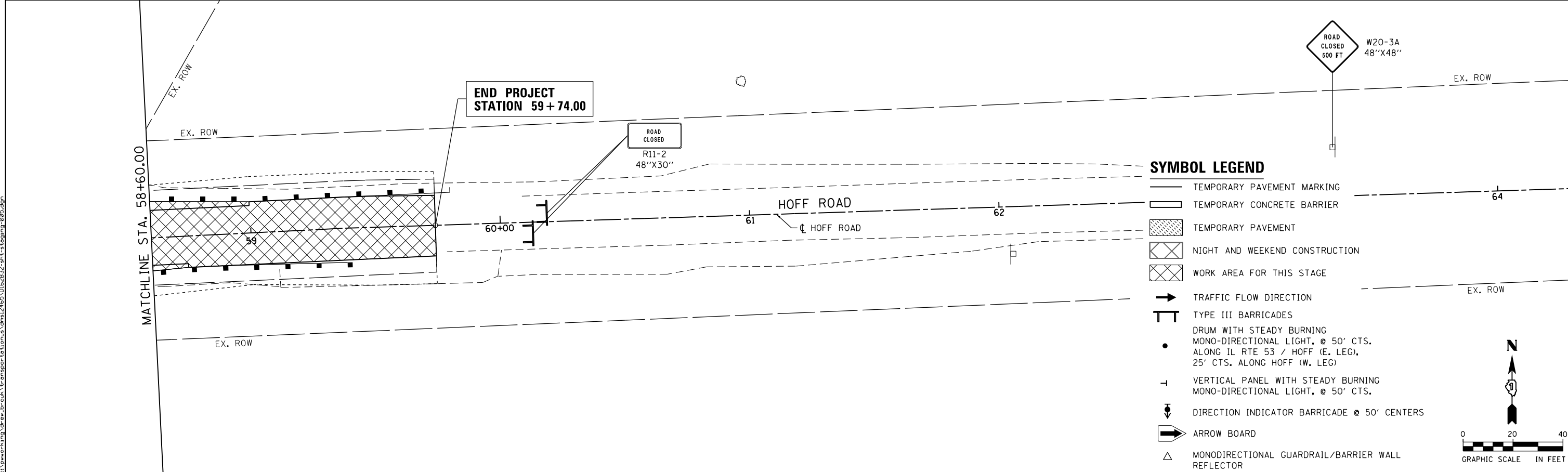
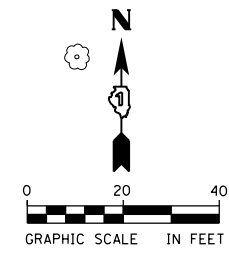
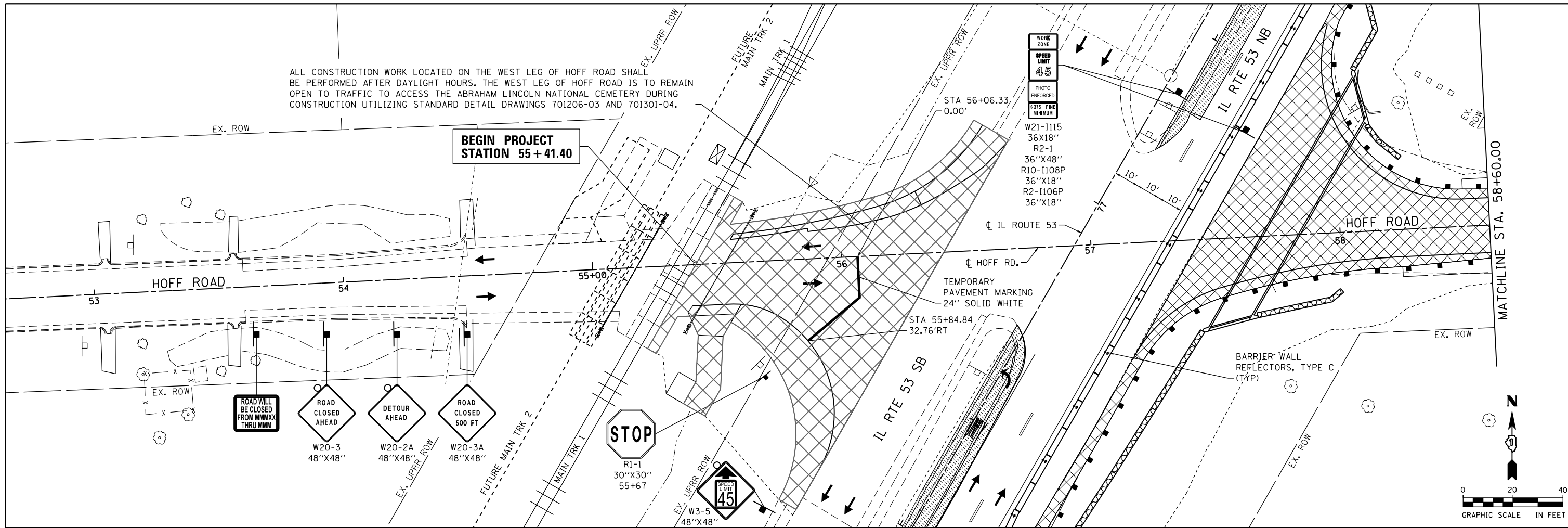
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 1A**

SCALE: 1"=20' SHEET 5 OF 13 SHEETS STA. 74+00.00 TO STA. 83+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	34
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

ALL CONSTRUCTION WORK LOCATED ON THE WEST LEG OF HOFF ROAD SHALL BE PERFORMED AFTER DAYLIGHT HOURS. THE WEST LEG OF HOFF ROAD IS TO REMAIN OPEN TO TRAFFIC TO ACCESS THE ABRAHAM LINCOLN NATIONAL CEMETERY DURING CONSTRUCTION UTILIZING STANDARD DETAIL DRAWINGS 701206-03 AND 701301-04.



- SYMBOL LEGEND**
- TEMPORARY PAVEMENT MARKING
 - ▬ TEMPORARY CONCRETE BARRIER
 - ▨ TEMPORARY PAVEMENT
 - ▩ NIGHT AND WEEKEND CONSTRUCTION
 - ▧ WORK AREA FOR THIS STAGE
 - ➔ TRAFFIC FLOW DIRECTION
 - ⊥ TYPE III BARRICADES
 - DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
 - ⊥ VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
 - ⇄ DIRECTION INDICATOR BARRICADE @ 50' CENTERS
 - ➔ ARROW BOARD
 - △ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

AECOM	USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	PLOT SCALE = 40.0000 ft / in.	DRAWN - DAB	REVISED -
	PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -
		DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 1B**

SCALE: 1"=20' SHEET 6 OF 13 SHEETS STA. 55+41.40 TO STA. 59+74.00

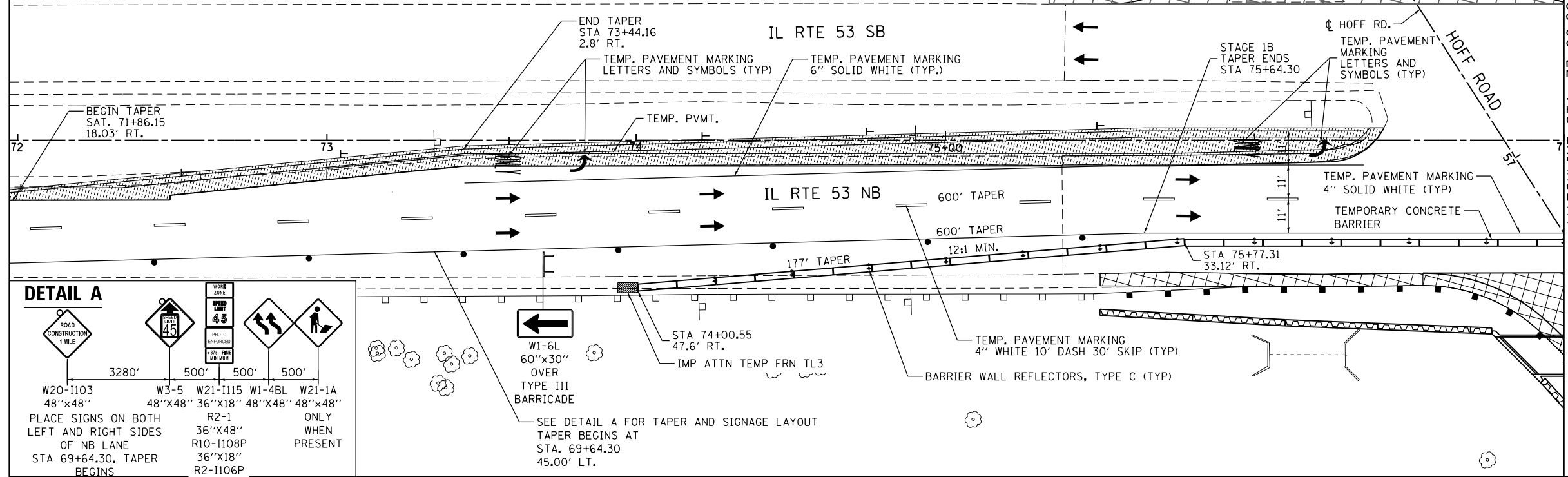
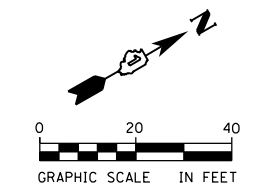
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ILLINOIS FED. AID PROJECT				

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EX. UPRR ROW

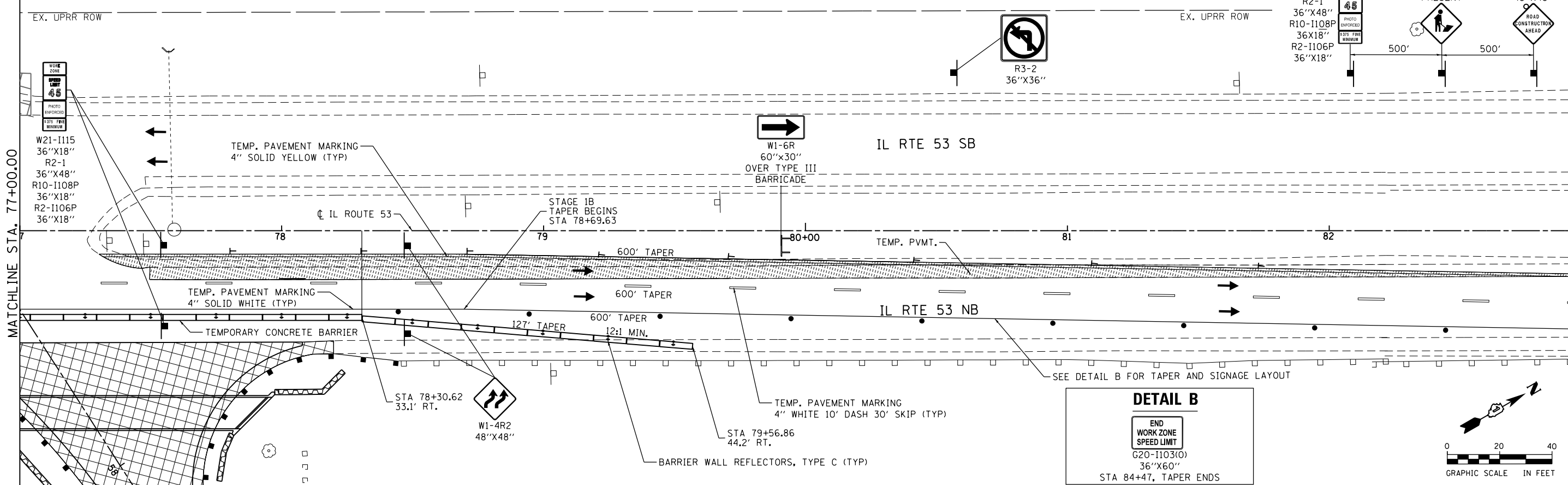
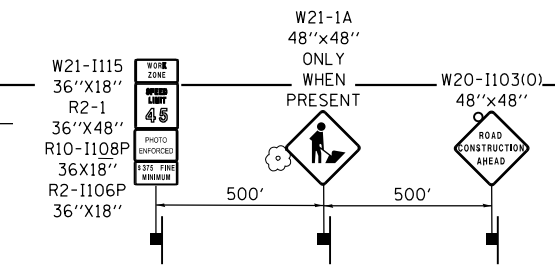
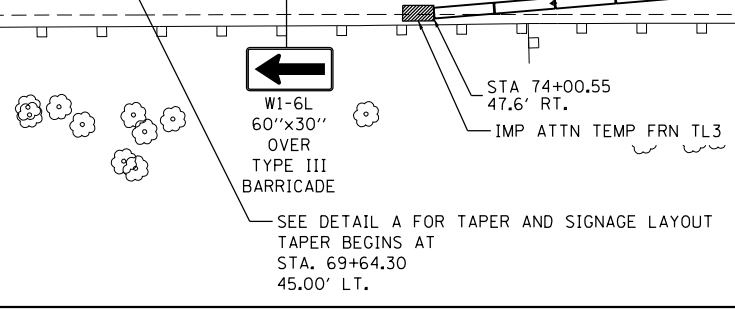
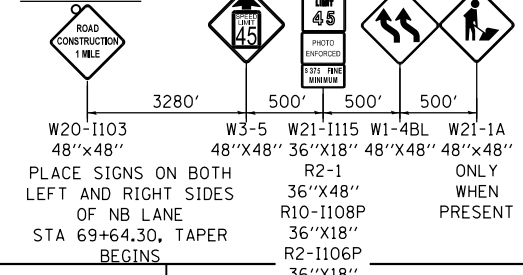
ALL CONSTRUCTION WORK LOCATED ON THE WEST LEG OF HOFF ROAD SHALL BE PERFORMED AFTER DAYLIGHT HOURS. THE WEST LEG OF HOFF ROAD IS TO REMAIN OPEN TO TRAFFIC TO ACCESS THE ABRAHAM LINCOLN NATIONAL CEMETERY DURING CONSTRUCTION UTILIZING STANDARD DETAIL DRAWINGS 701206-03 AND 701301-04.

EX. UPRR ROW



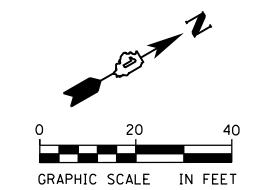
- SYMBOL LEGEND**
- TEMPORARY PAVEMENT MARKING
 - ▭ TEMPORARY CONCRETE BARRIER
 - ▨ TEMPORARY PAVEMENT
 - ▧ NIGHT AND WEEKEND CONSTRUCTION
 - ▩ WORK AREA FOR THIS STAGE
 - TRAFFIC FLOW DIRECTION
 - ⊥ TYPE III BARRICADES
 - DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
 - ⊥ VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
 - ⇄ DIRECTION INDICATOR BARRICADE @ 50' CENTERS
 - ARROW BOARD
 - △ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

DETAIL A



DETAIL B

END WORK ZONE SPEED LIMIT
G20-1103(O)
36"X60"
STA 84+47, TAPER ENDS



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

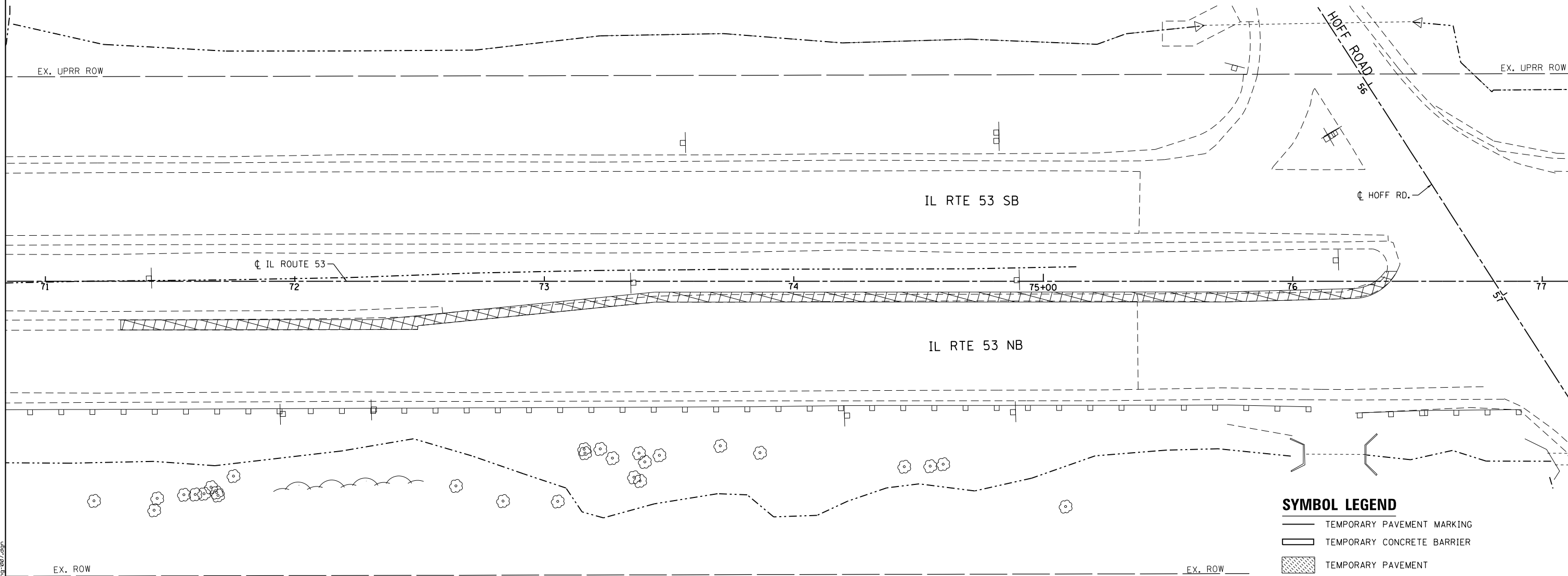
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 1B
SCALE: 1"=20' SHEET 7 OF 13 SHEETS STA. 74+00.00 TO STA. 83+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	36
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

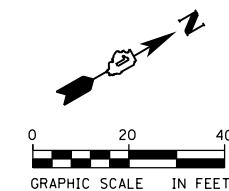
GENERAL NOTES:

- USE TRAFFIC CONTROL STANDARD DETAIL DRAWING 701422-07 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH MARKING TO COMPLETE SHOULDER RECONSTRUCTION WORK FOR STAGE 1C.
- SEE STAGE 1A FOR PAVEMENT STRIPING.



SYMBOL LEGEND

- TEMPORARY PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- TEMPORARY PAVEMENT
- NIGHT AND WEEKEND CONSTRUCTION
- WORK AREA FOR THIS STAGE
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
- VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
- DIRECTION INDICATOR BARRICADE @ 50' CENTERS
- ARROW BOARD
- MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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USER NAME = drew.brrouk	DESIGNED - MTL	REVISED -
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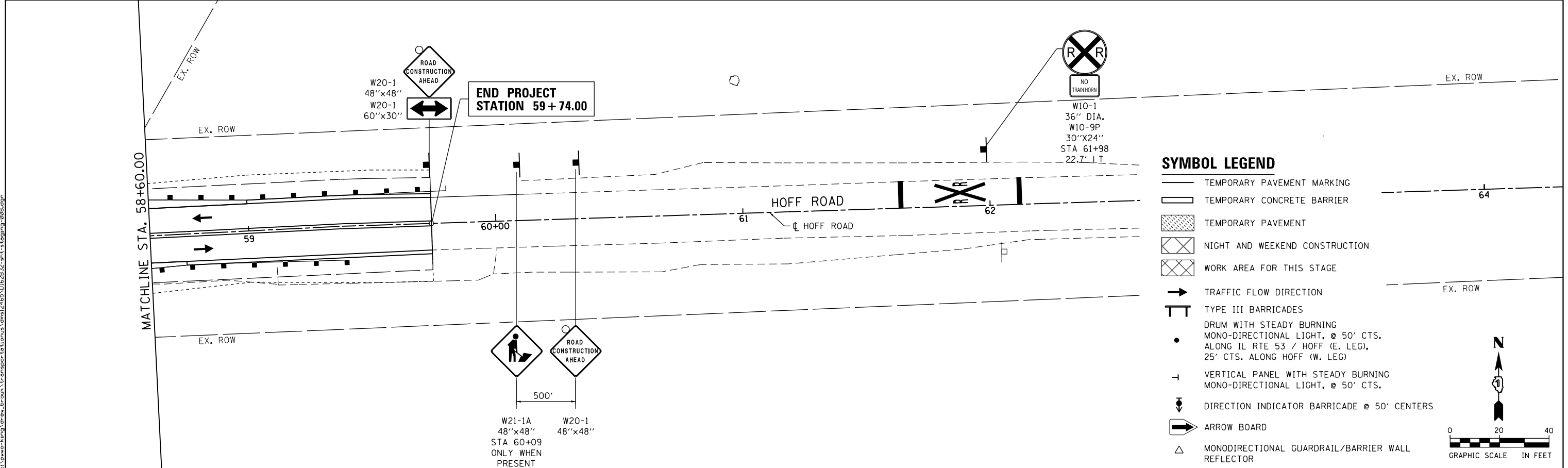
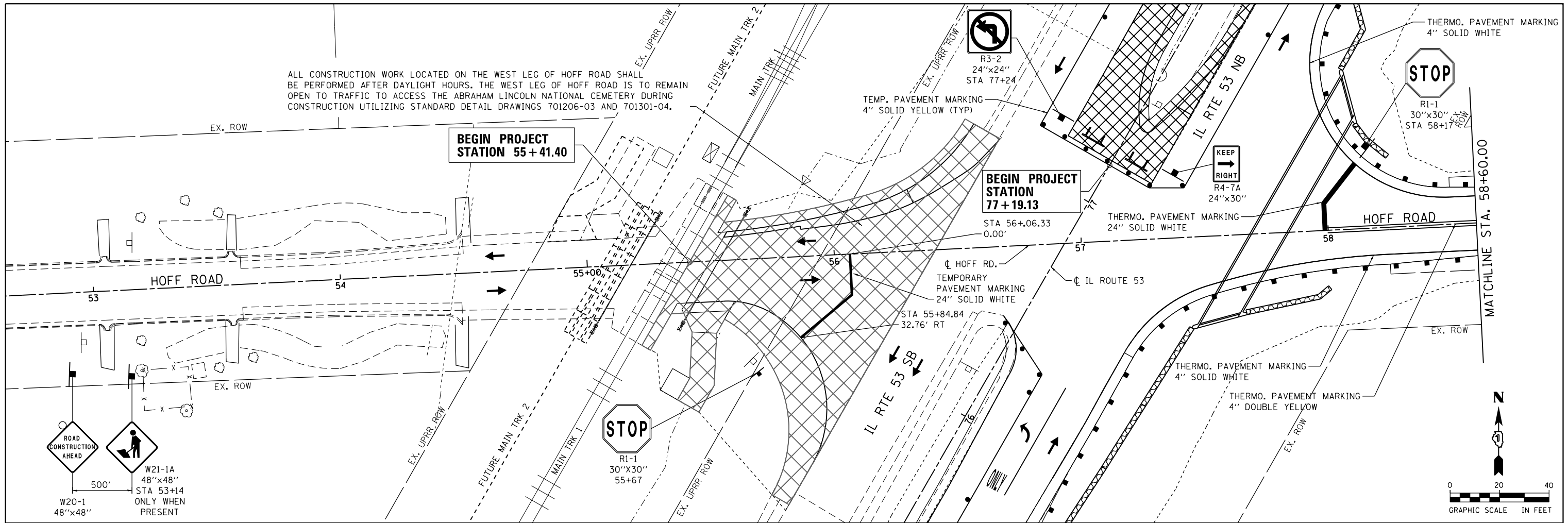
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 1C**

SCALE: 1"=20' SHEET 8 OF 13 SHEETS STA. 71+30.20 TO STA. 76+41.76

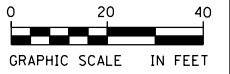
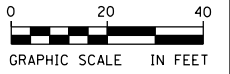
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	37
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

ALL CONSTRUCTION WORK LOCATED ON THE WEST LEG OF HOFF ROAD SHALL BE PERFORMED AFTER DAYLIGHT HOURS. THE WEST LEG OF HOFF ROAD IS TO REMAIN OPEN TO TRAFFIC TO ACCESS THE ABRAHAM LINCOLN NATIONAL CEMETERY DURING CONSTRUCTION UTILIZING STANDARD DETAIL DRAWINGS 701206-03 AND 701301-04.



SYMBOL LEGEND

- TEMPORARY PAVEMENT MARKING
- ▬ TEMPORARY CONCRETE BARRIER
- ▨ TEMPORARY PAVEMENT
- ▩ NIGHT AND WEEKEND CONSTRUCTION
- ▧ WORK AREA FOR THIS STAGE
- ➔ TRAFFIC FLOW DIRECTION
- ⊥ TYPE III BARRICADES
- DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
- ⊥ VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
- ➔ DIRECTION INDICATOR BARRICADE @ 50' CENTERS
- ➔ ARROW BOARD
- △ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
DRAWN - DAB	REVISÉD -	
CHECKED - JCM	REVISÉD -	
DATE - 03/21/2016	REVISÉD -	

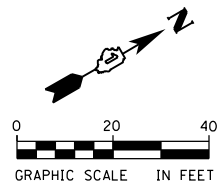
W21-1A 48"x48" STA 60+09 ONLY WHEN PRESENT	W20-1 48"x48"
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

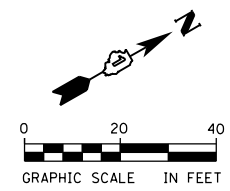
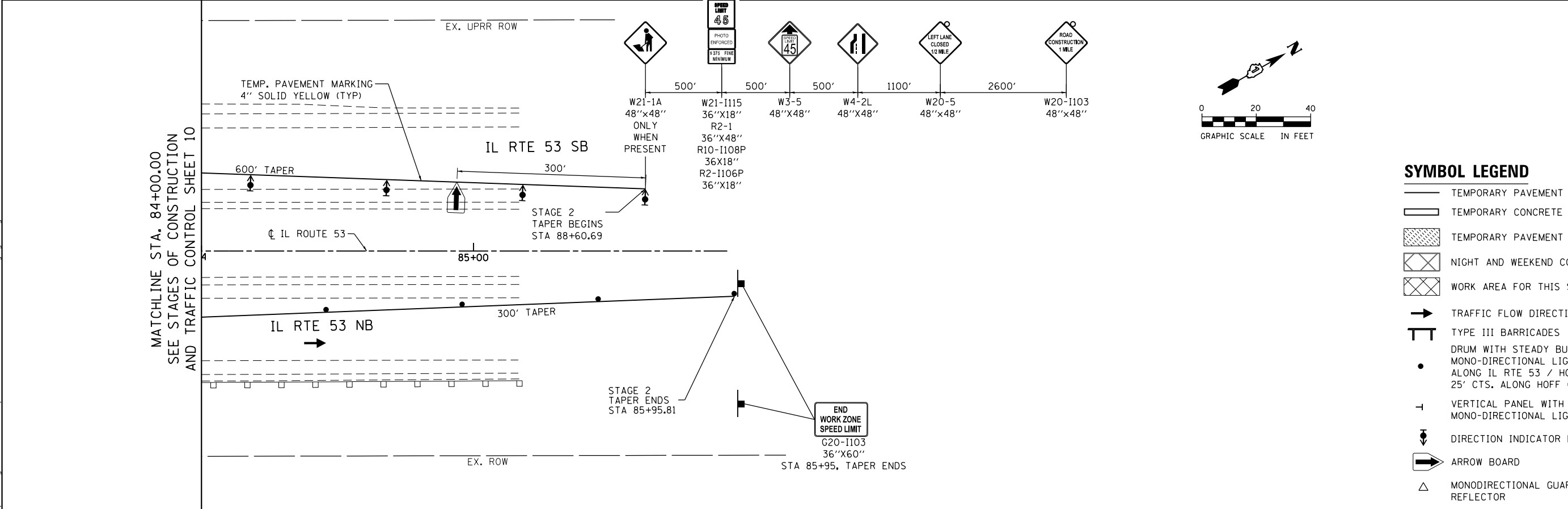
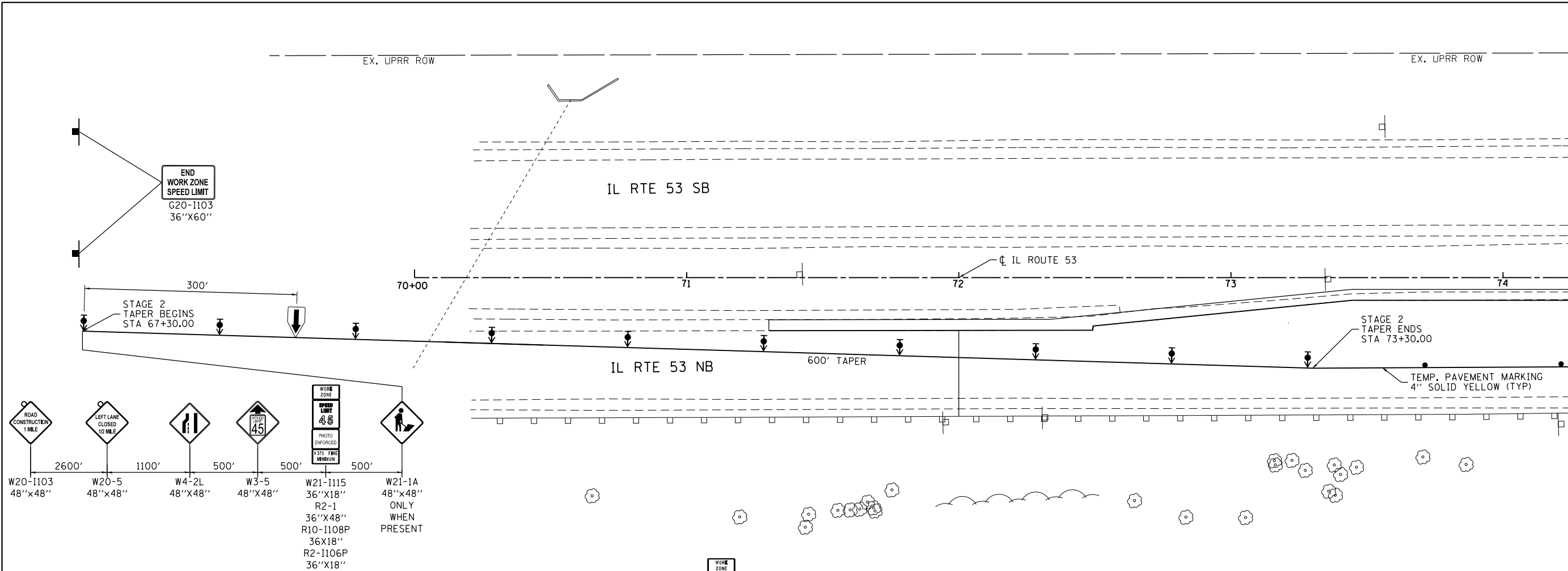
STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 2
SCALE: 1"=20' SHEET 9 OF 13 SHEETS STA. 55+41.40 TO STA. 59+74.00

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 38
				CONTRACT NO. 62B32
ILLINOIS FED. AID PROJECT				

FILE NAME: c:\neworking\drw\br\br\transport\stages\stages\12465\0162832-111-stages\stages_088.dgn



MATCHLINE STA. 74+25.00
SEE STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL SHEET 10



- SYMBOL LEGEND**
- TEMPORARY PAVEMENT MARKING
 - TEMPORARY CONCRETE BARRIER
 - TEMPORARY PAVEMENT
 - NIGHT AND WEEKEND CONSTRUCTION
 - WORK AREA FOR THIS STAGE
 - TRAFFIC FLOW DIRECTION
 - TYPE III BARRICADES
 - DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
 - VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
 - DIRECTION INDICATOR BARRICADE @ 50' CENTERS
 - ARROW BOARD
 - MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

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USER NAME = drew.brwbk	DESIGNED - MTL	REVISED -
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	DATE - 03/21/2016	REVISED -

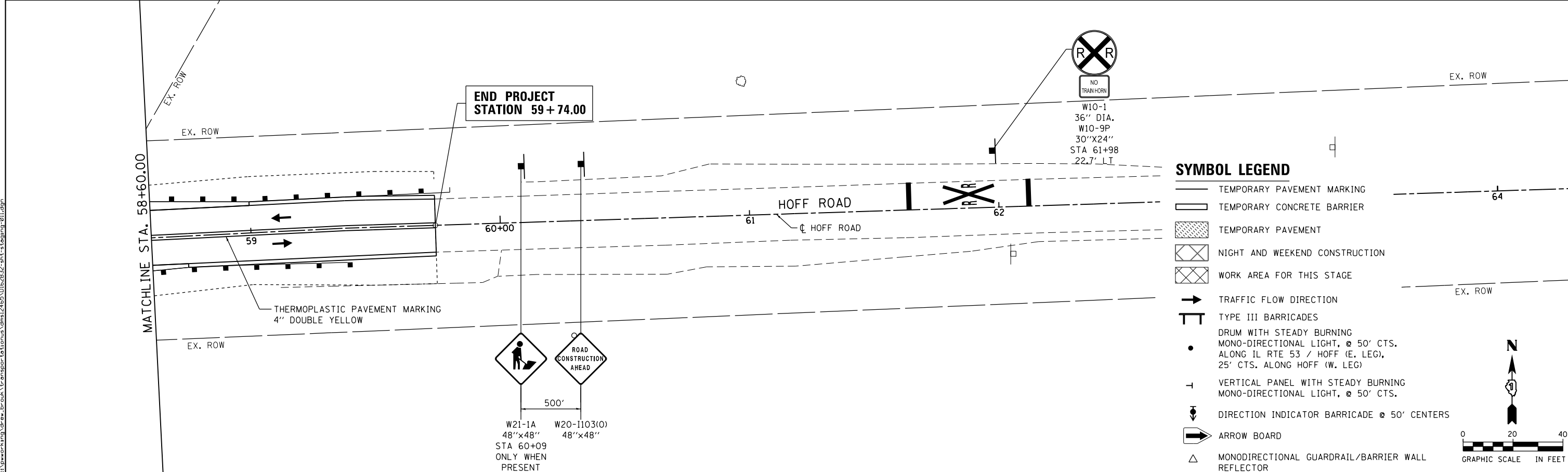
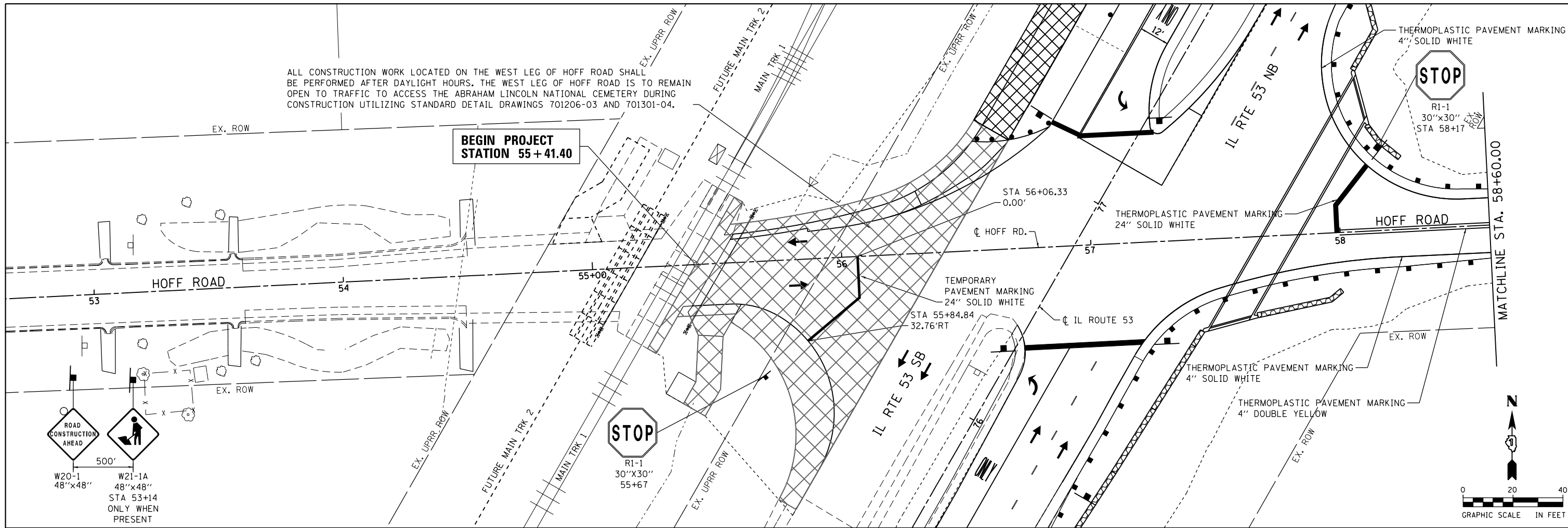
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 2**

SCALE: 1"=20' SHEET 11 OF 13 SHEETS STA. 70+00.00 TO STA. 85+95.81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	40
CONTRACT NO.			62B32	
ILLINOIS FED. AID PROJECT				

ALL CONSTRUCTION WORK LOCATED ON THE WEST LEG OF HOFF ROAD SHALL BE PERFORMED AFTER DAYLIGHT HOURS. THE WEST LEG OF HOFF ROAD IS TO REMAIN OPEN TO TRAFFIC TO ACCESS THE ABRAHAM LINCOLN NATIONAL CEMETERY DURING CONSTRUCTION UTILIZING STANDARD DETAIL DRAWINGS 701206-03 AND 701301-04.



SYMBOL LEGEND

- TEMPORARY PAVEMENT MARKING
- ▭ TEMPORARY CONCRETE BARRIER
- ▨ TEMPORARY PAVEMENT
- ▧ NIGHT AND WEEKEND CONSTRUCTION
- ▩ WORK AREA FOR THIS STAGE
- TRAFFIC FLOW DIRECTION
- ⊥ TYPE III BARRICADES
- DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
- ⊥ VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
- ⇄ DIRECTION INDICATOR BARRICADE @ 50' CENTERS
- ARROW BOARD
- △ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

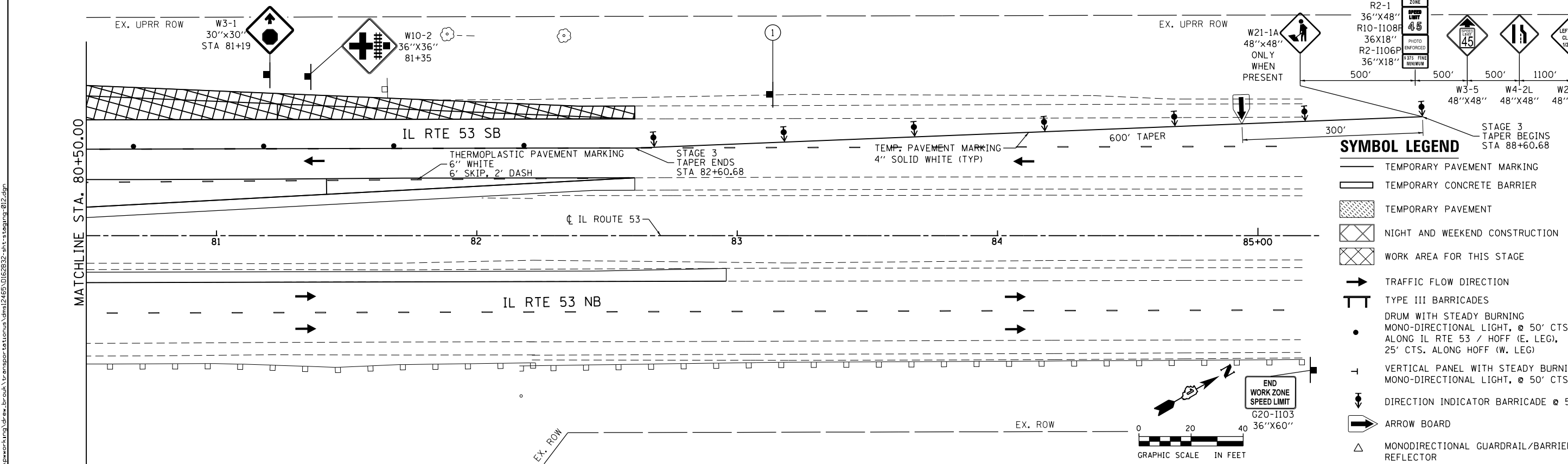
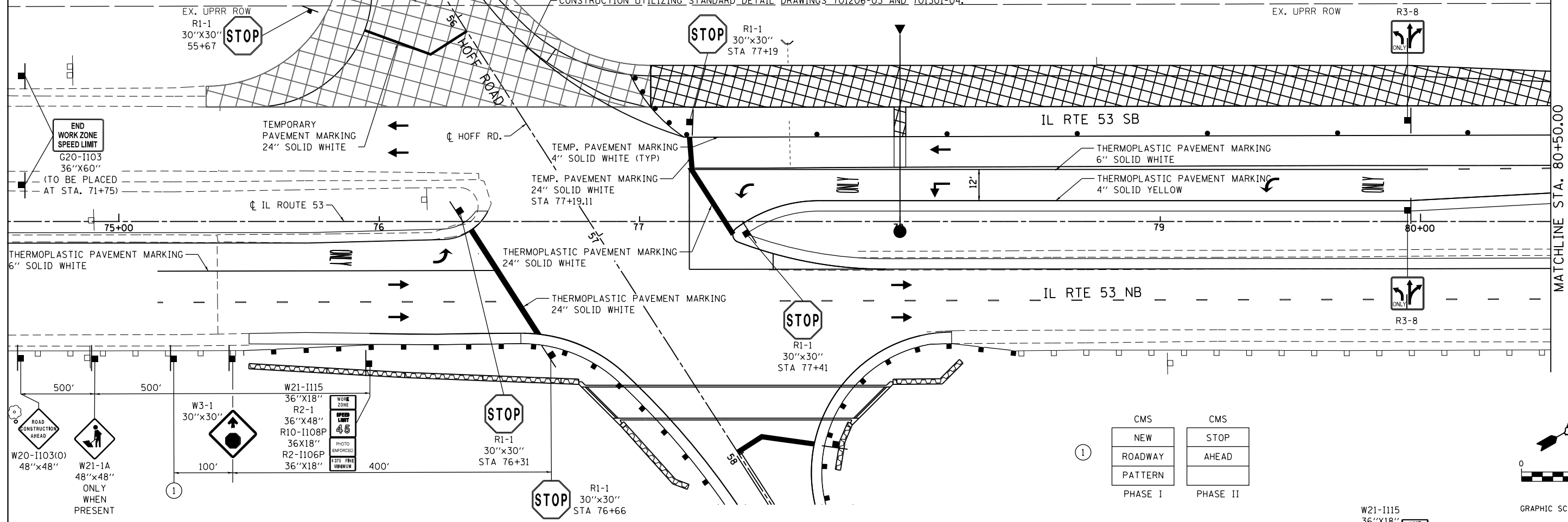
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 3**

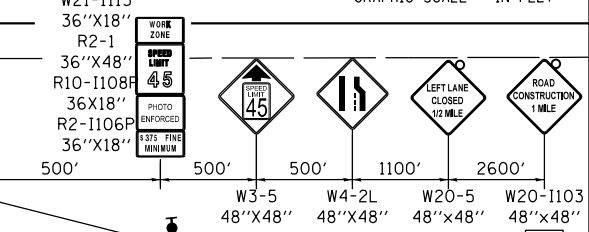
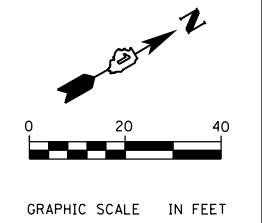
SCALE: 1"=20' SHEET 12 OF 13 SHEETS STA. 55+41.54 TO STA. 59+74.00

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 41
			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				

ALL CONSTRUCTION WORK LOCATED ON THE WEST LEG OF HOFF ROAD SHALL BE PERFORMED AFTER DAYLIGHT HOURS. THE WEST LEG OF HOFF ROAD IS TO REMAIN OPEN TO TRAFFIC TO ACCESS THE ABRAHAM LINCOLN NATIONAL CEMETERY DURING CONSTRUCTION UTILIZING STANDARD DETAIL DRAWINGS 701206-03 AND 701301-04.



CMS	CMS
NEW	STOP
ROADWAY	AHEAD
PATTERN	
PHASE I	PHASE II



- SYMBOL LEGEND**
- TEMPORARY PAVEMENT MARKING
 - ▬ TEMPORARY CONCRETE BARRIER
 - ▨ TEMPORARY PAVEMENT
 - ▧ NIGHT AND WEEKEND CONSTRUCTION
 - ▩ WORK AREA FOR THIS STAGE
 - TRAFFIC FLOW DIRECTION
 - ⊥ TYPE III BARRICADES
 - DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS. ALONG IL RTE 53 / HOFF (E. LEG), 25' CTS. ALONG HOFF (W. LEG)
 - ⊥ VERTICAL PANEL WITH STEADY BURNING MONO-DIRECTIONAL LIGHT, @ 50' CTS.
 - ⊥ DIRECTION INDICATOR BARRICADE @ 50' CENTERS
 - ARROW BOARD
 - △ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

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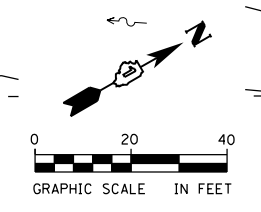
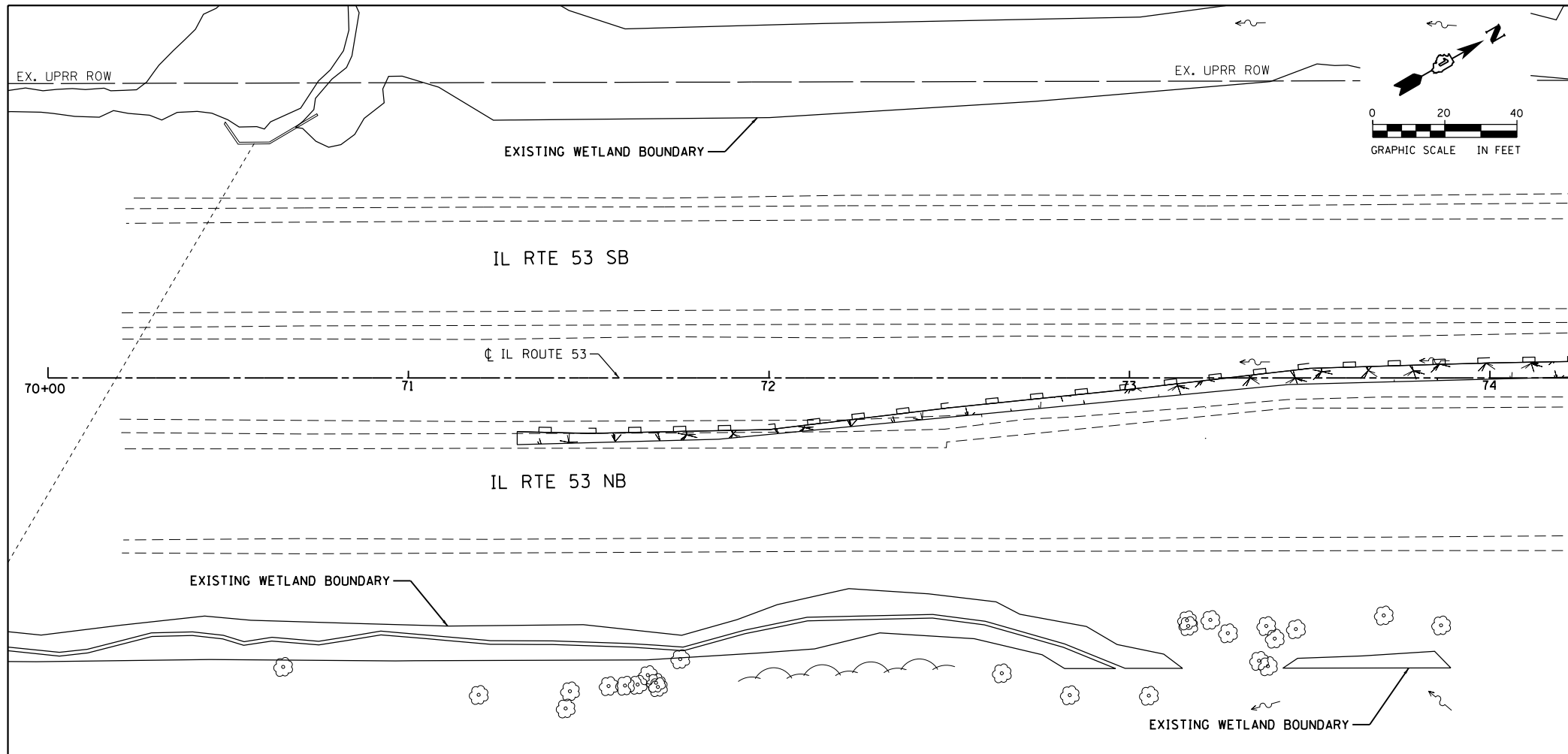
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
IL ROUTE 53 AT HOFF RD. - STAGE 3**

SCALE: 1"=20' SHEET 13 OF 13 SHEETS STA. 75+31.00 TO STA. 85+63.19

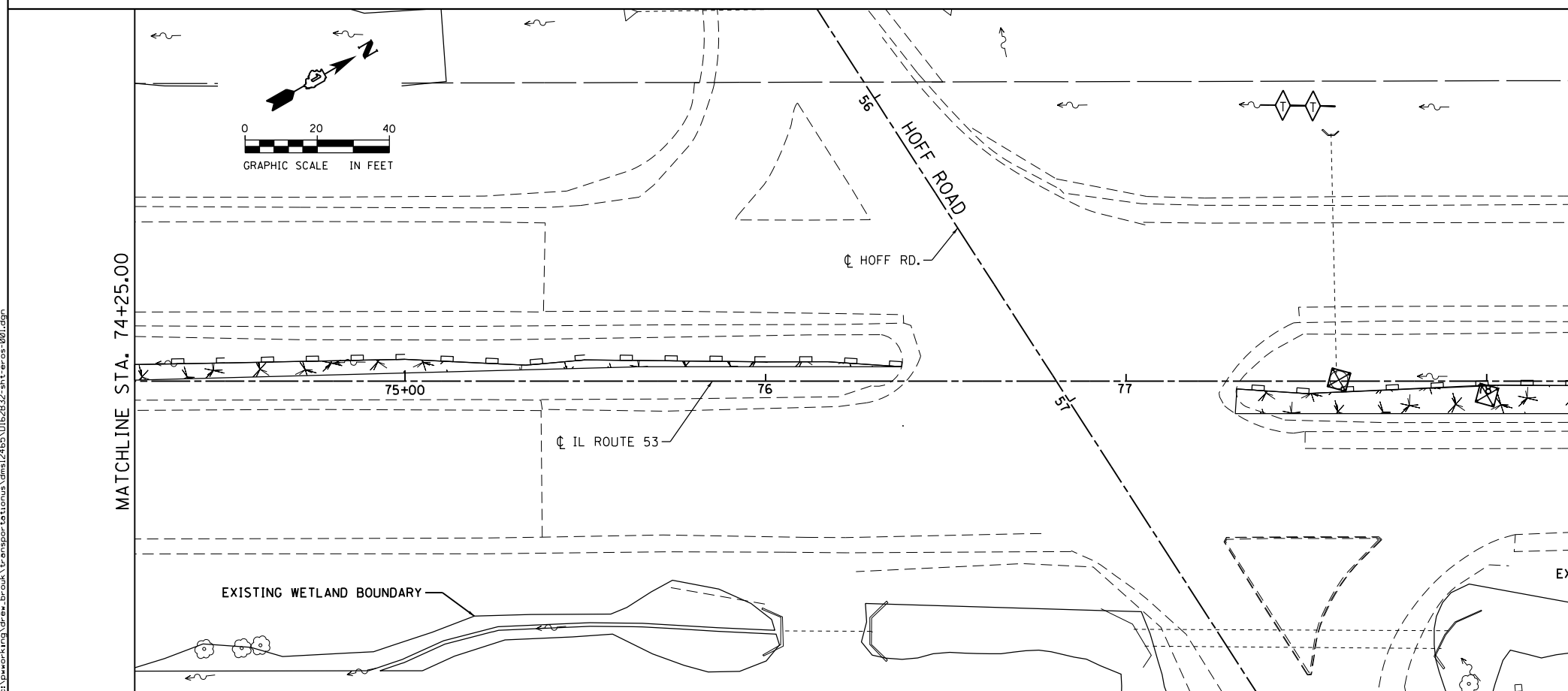
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	42
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



EROSION CONTROL NOTES

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

MATCHLINE STA. 74+25.00



EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET
- STONE RIP RAP, CLASS SPECIFIED
- TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
- PERIMETER EROSION BARRIER
- INLET FILTER
- TEMPORARY DITCH CHECK
- AGGREGATE DITCH CHECK
- xxx - xxx - TEMPORARY FENCING
- TEMPORARY SIGN

MATCHLINE STA. 79+00.00

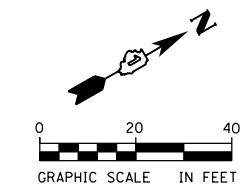


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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

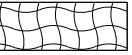

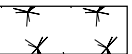




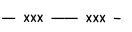

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

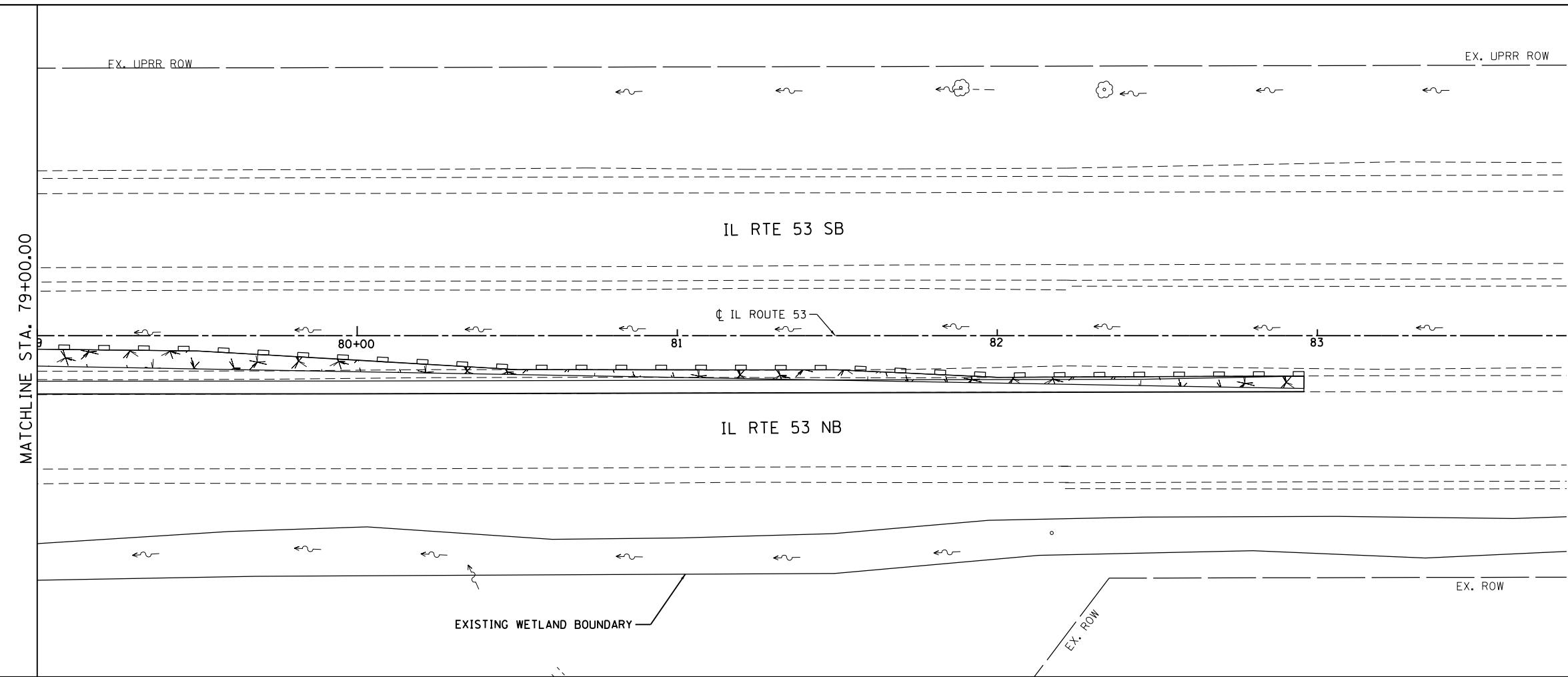
EROSION CONTROL PLANS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STAGE 1A - IL ROUTE 53 AT HOFF ROAD		846	DIHSRR2016-01	WILL	146	43
SCALE: 1"=20'		SHEET 1 OF 10 SHEETS		STA. 71+30.00 TO STA. 79+00.00		CONTRACT NO. 62B32
ILLINOIS FED. AID PROJECT						

FILE NAME: c:\pwworking\draw.brouk\transportation\msh\12465\0162B32-ent-eros-001.dgn



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET
-  STONE RIP RAP, CLASS SPECIFIED
-  TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  AGGREGATE DITCH CHECK
-  - xxx - xxx - TEMPORARY FENCING
-  TEMPORARY SIGN



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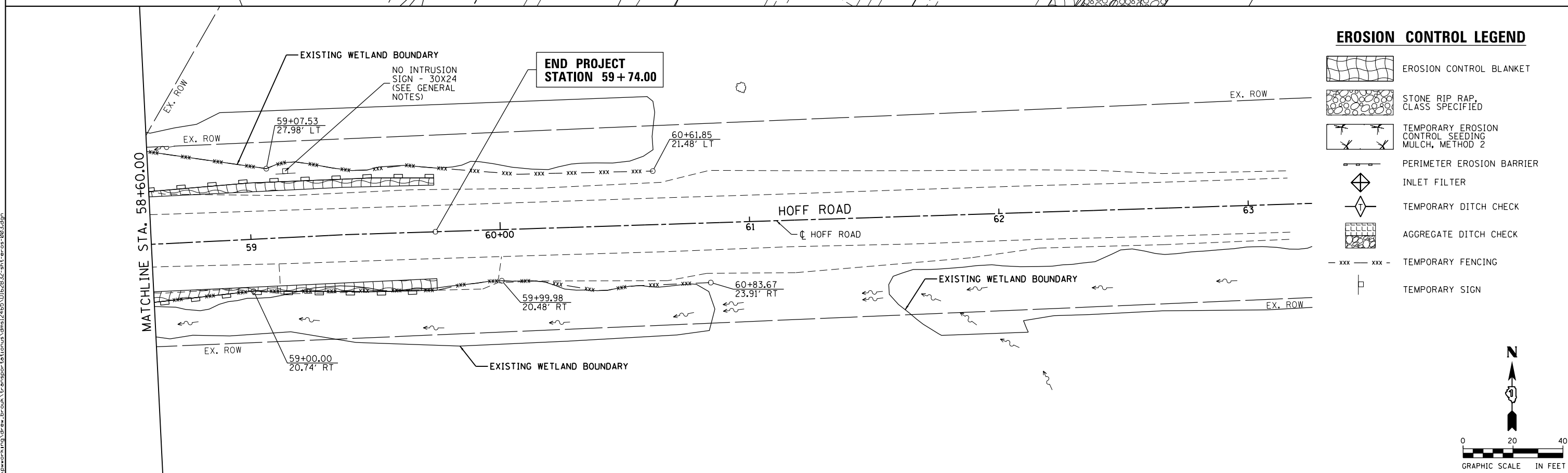
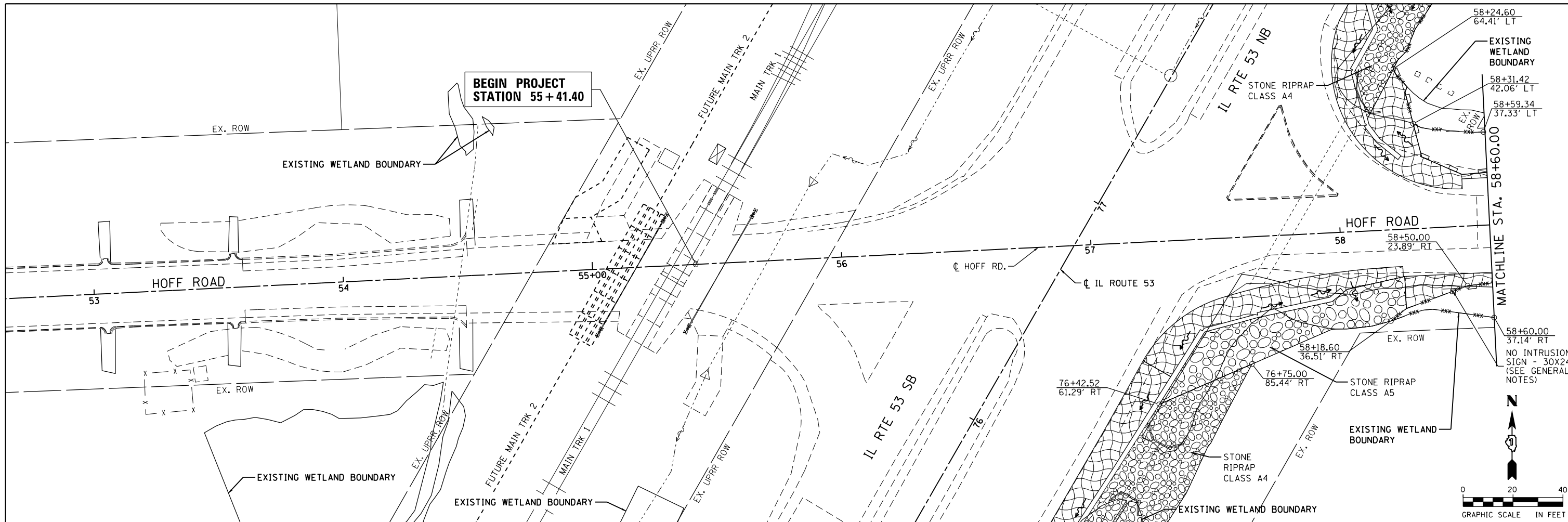
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



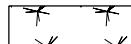
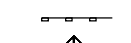
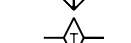

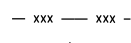


**EROSION CONTROL PLANS
STAGE 1A - IL ROUTE 53 AT HOFF ROAD**

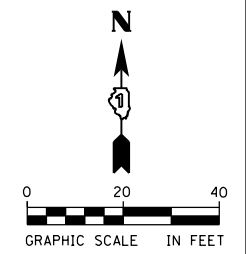
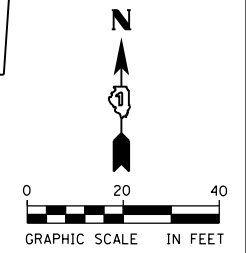
SCALE: 1"=20' SHEET 2 OF 10 SHEETS STA. 79+00.00 TO STA. 82+95.90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	44
				CONTRACT NO. 62B32
ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET
-  STONE RIP RAP, CLASS SPECIFIED
-  TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  AGGREGATE DITCH CHECK
-  - xxx - TEMPORARY FENCING
-  TEMPORARY SIGN



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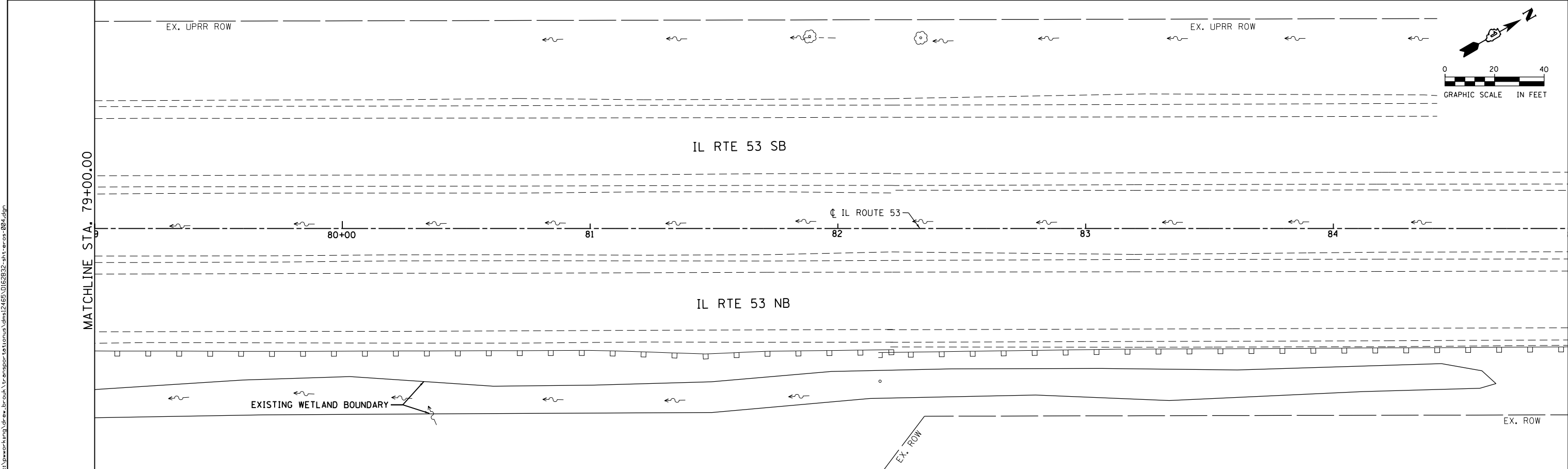
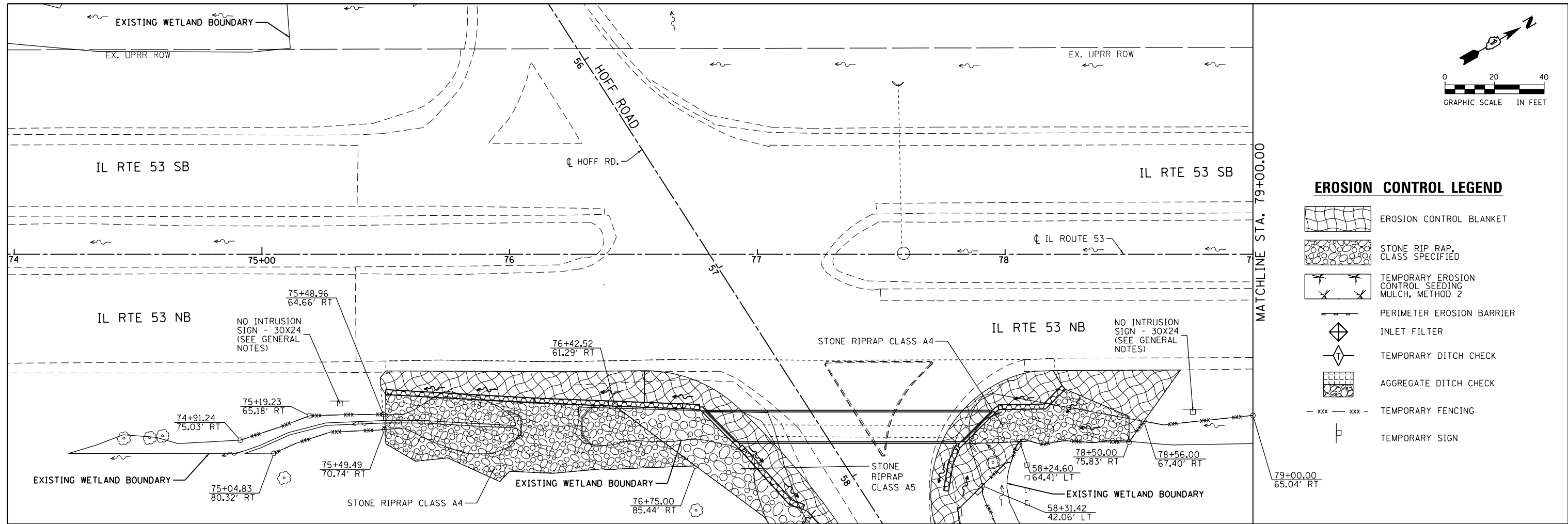
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	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**






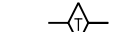


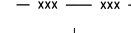
**EROSION CONTROL PLANS
STAGE 1B - IL ROUTE 53 AT HOFF ROAD**

SCALE: 1"=20' SHEET 3 OF 10 SHEETS STA. 55+41.40 TO STA. 59+74.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	45
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET
-  STONE RIP RAP, CLASS SPECIFIED
-  TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  AGGREGATE DITCH CHECK
-  TEMPORARY FENCING
-  TEMPORARY SIGN

FILE NAME: c:\yearworking\drw\erob\transportation\dem1265\062832-ait-eros-084.dgn



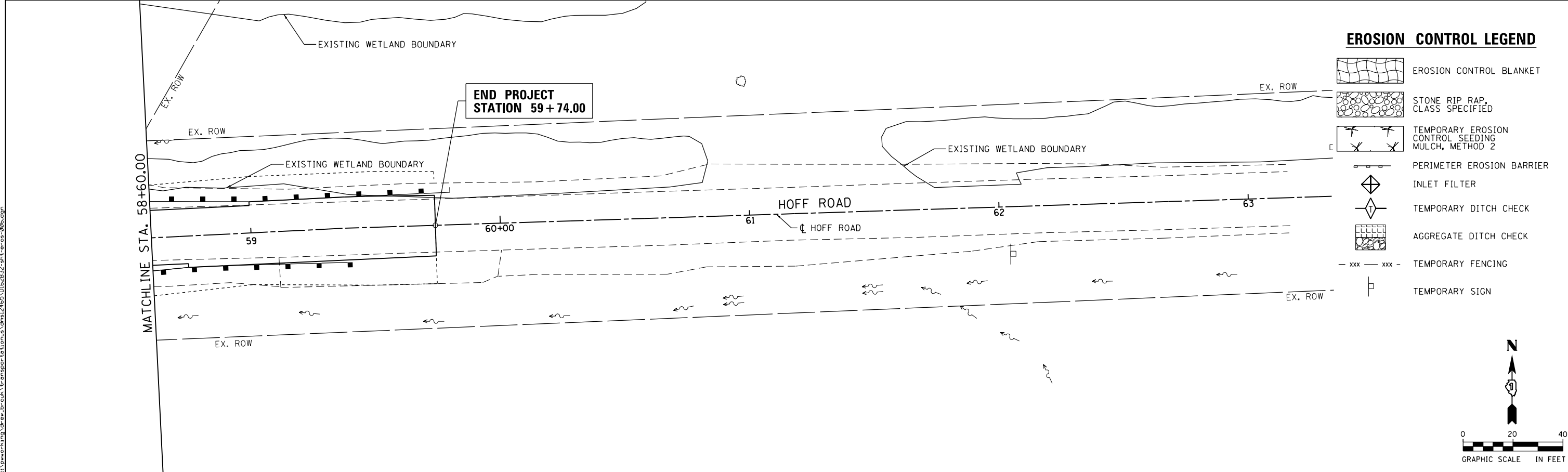
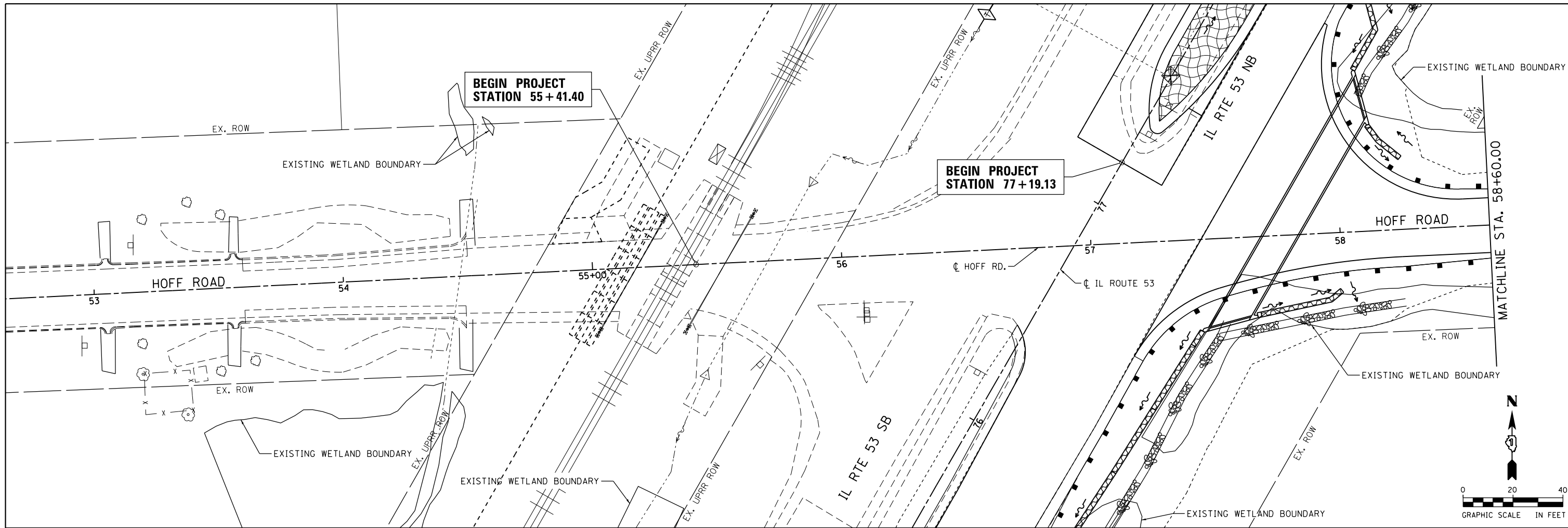
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	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



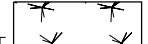


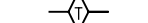
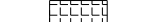


**EROSION CONTROL PLANS
STAGE 1B - IL ROUTE 53 AT HOFF ROAD**

SCALE: 1"=20' SHEET 4 OF 10 SHEETS STA. 74+00.00 TO STA. 84+94.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	46
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET
-  STONE RIP RAP, CLASS SPECIFIED
-  TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  AGGREGATE DITCH CHECK
-  - xxx - xxx - TEMPORARY FENCING
-  TEMPORARY SIGN

FILE NAME = c:\neworking\uraw\br\br\transportation\m12465\0162832-11t-eros-006.dgn



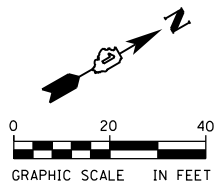
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

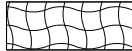
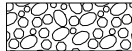
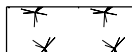






**EROSION CONTROL PLANS
STAGE 2 - IL ROUTE 53 AT HOFF ROAD**

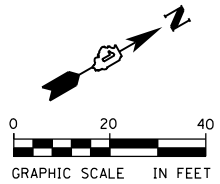
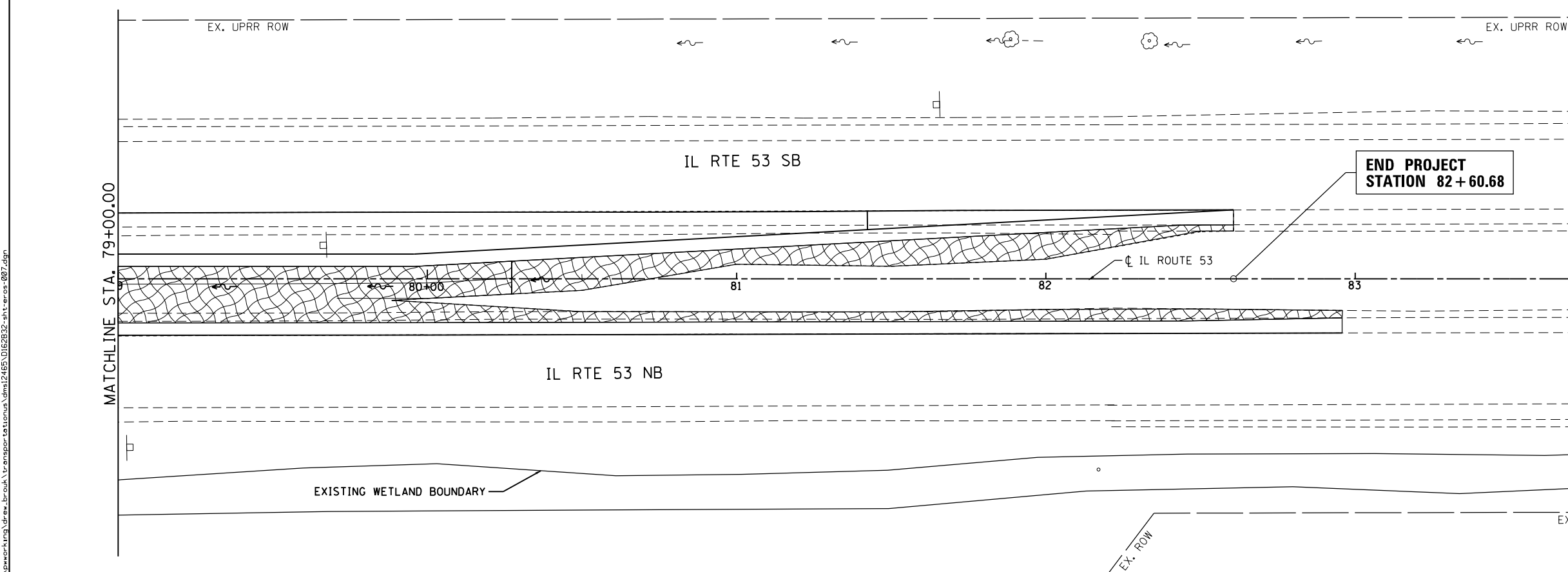
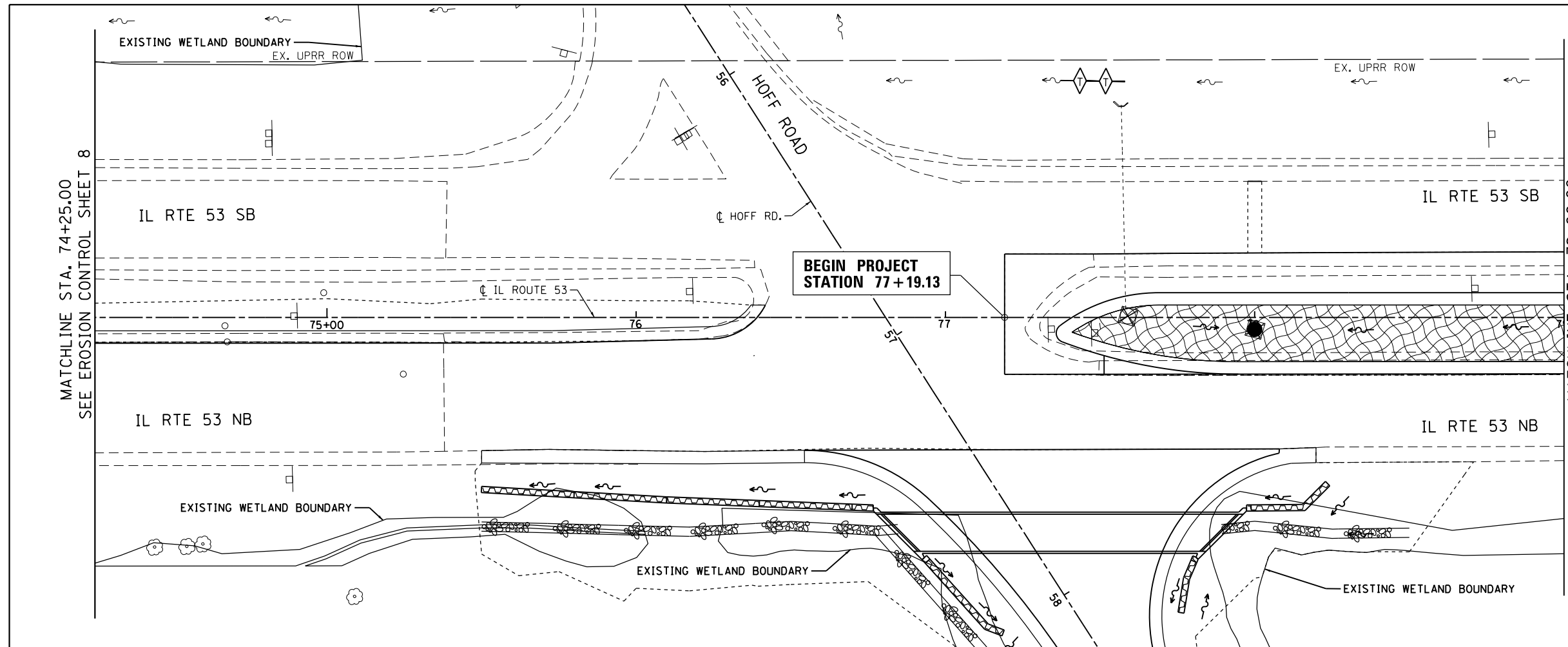
SCALE: 1"=20' SHEET 6 OF 10 SHEETS STA. 55+41.40 TO STA. 59+74.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	48
			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET
-  STONE RIP RAP, CLASS SPECIFIED
-  TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  AGGREGATE DITCH CHECK
-  - xxx - xxx - TEMPORARY FENCING
-  TEMPORARY SIGN



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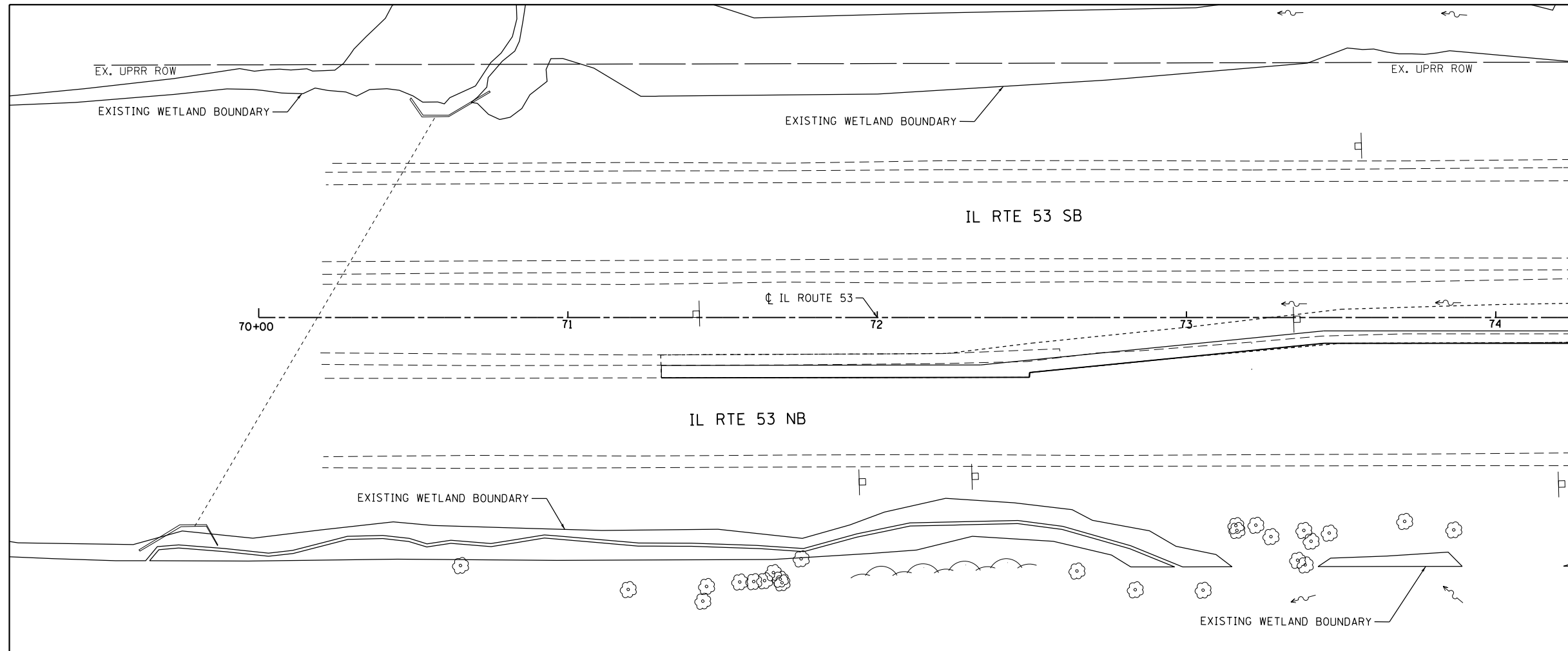
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	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


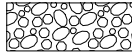
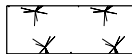


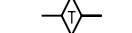

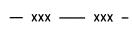

**EROSION CONTROL PLANS
STAGE 2 - IL ROUTE 53 AT HOFF ROAD**

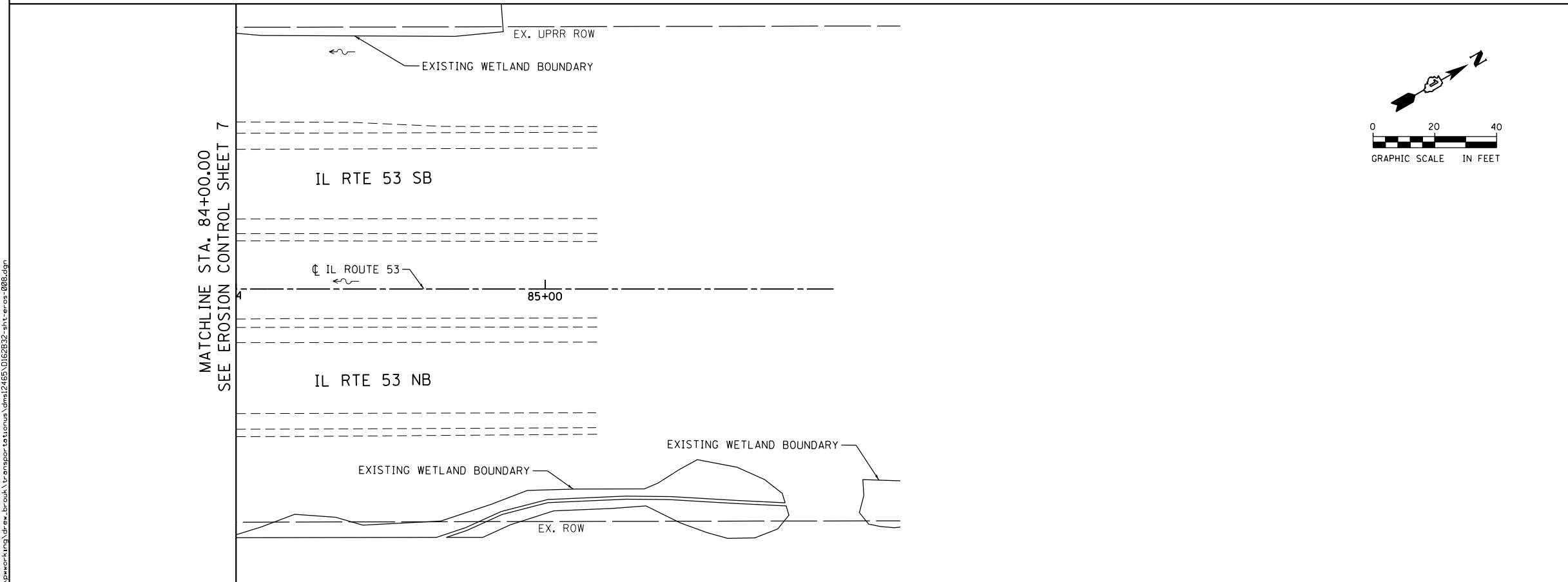
SCALE: 1"=20' SHEET 7 OF 10 SHEETS STA. 74+25.00 TO STA. 84+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	49
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



MATCHLINE STA. 74+25.00
SEE EROSION CONTROL SHEET 7

- EROSION CONTROL LEGEND**
-  EROSION CONTROL BLANKET
 -  STONE RIP RAP, CLASS SPECIFIED
 -  TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
 -  PERIMETER EROSION BARRIER
 -  INLET FILTER
 -  TEMPORARY DITCH CHECK
 -  AGGREGATE DITCH CHECK
 -  - xxx - xxx - TEMPORARY FENCING
 -  TEMPORARY SIGN



MATCHLINE STA. 84+00.00
SEE EROSION CONTROL SHEET 7

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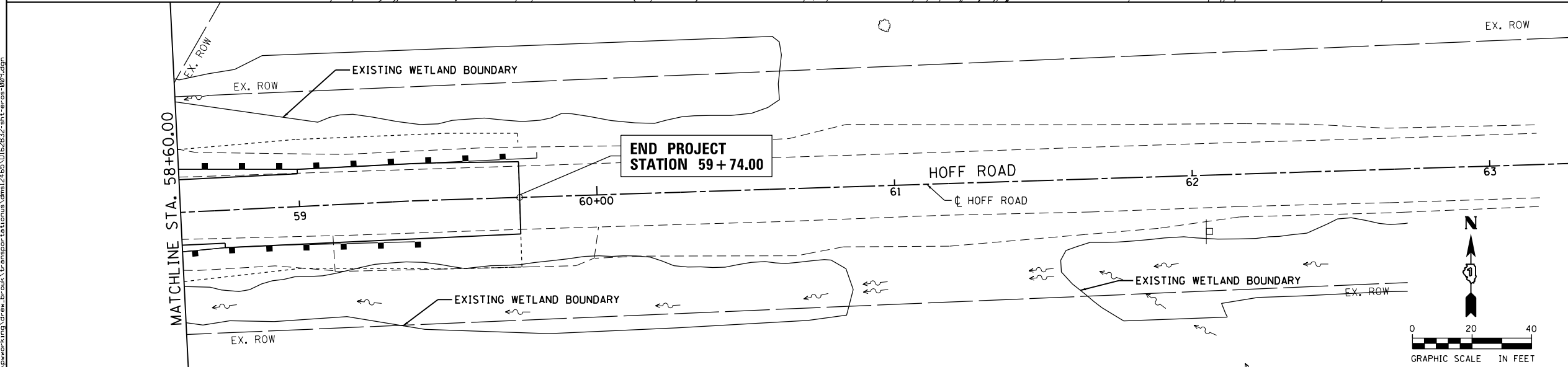
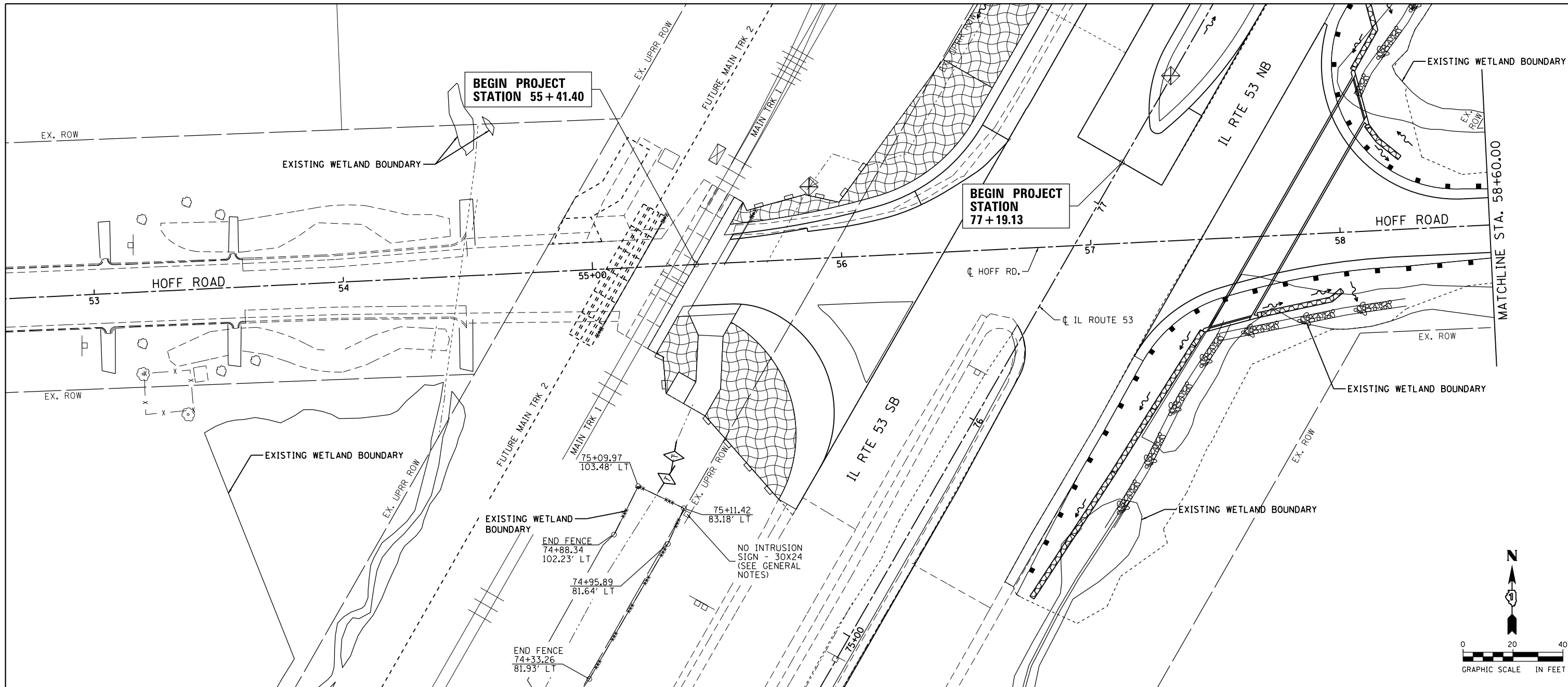


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PLOT SCALE = 40.0000 ft / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

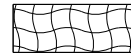
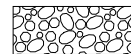


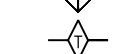

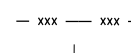
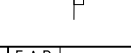
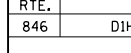
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLANS		
STAGE 2 - IL ROUTE 53 AT HOFF ROAD		
SCALE: 1"=20'	SHEET 8 OF 10 SHEETS	STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	50
CONTRACT NO. 62B32				ILLINOIS FED. AID PROJECT



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET
-  STONE RIP RAP, CLASS SPECIFIED
-  TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  AGGREGATE DITCH CHECK
-  - xxx - xxx - TEMPORARY FENCING
-  TEMPORARY SIGN

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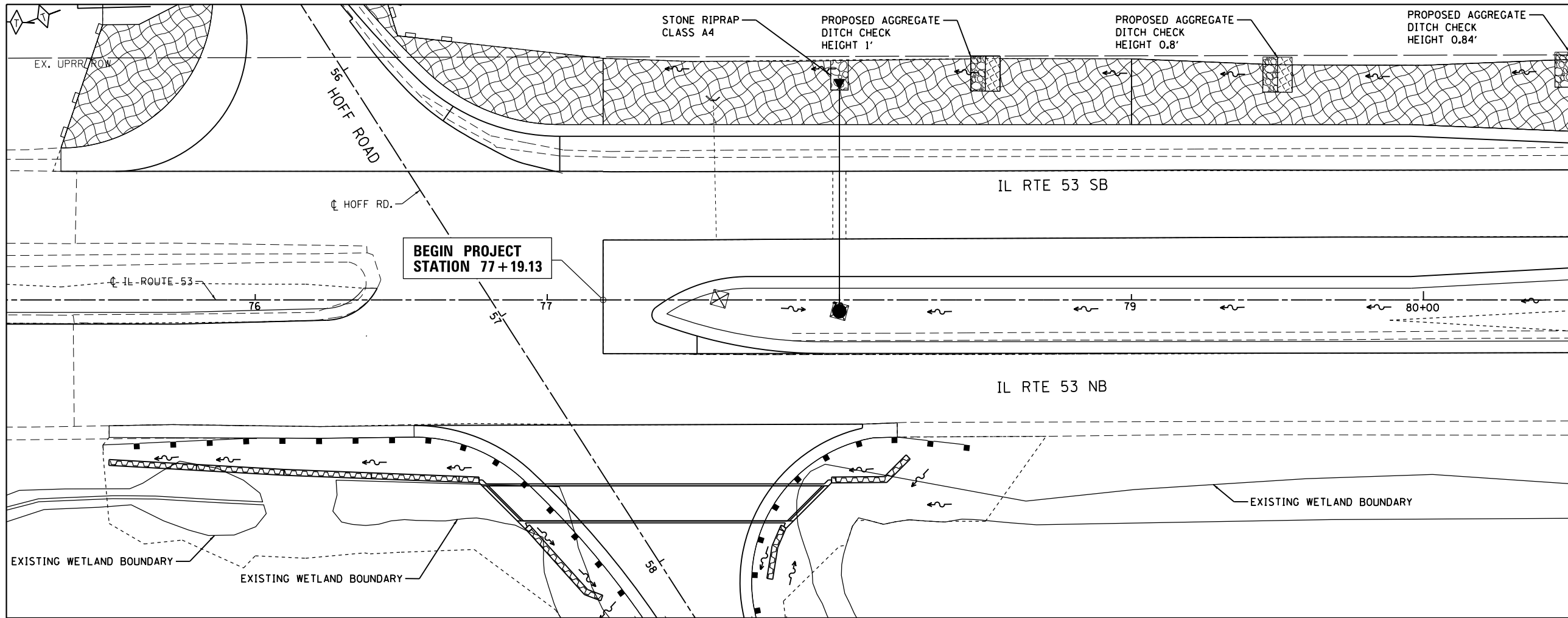


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	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

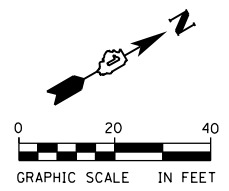
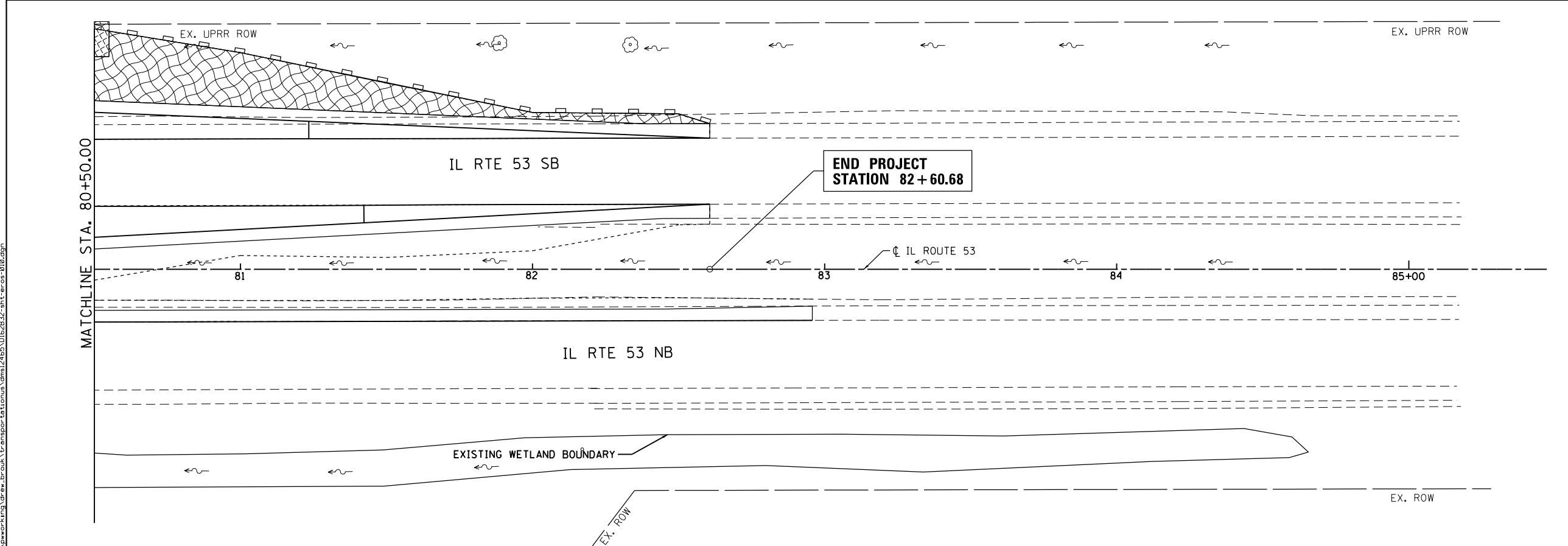
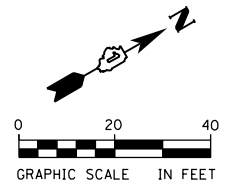
EROSION CONTROL PLANS
STAGE 3 - IL ROUTE 53 AT HOFF ROAD
SCALE: 1"=20' SHEET 9 OF 10 SHEETS STA. 55+41.40 TO STA. 59+74.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	51
			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET
- STONE RIP RAP, CLASS SPECIFIED
- TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
- PERIMETER EROSION BARRIER
- INLET FILTER
- TEMPORARY DITCH CHECK
- AGGREGATE DITCH CHECK
- TEMPORARY FENCING
- TEMPORARY SIGN



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

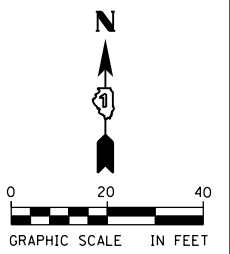
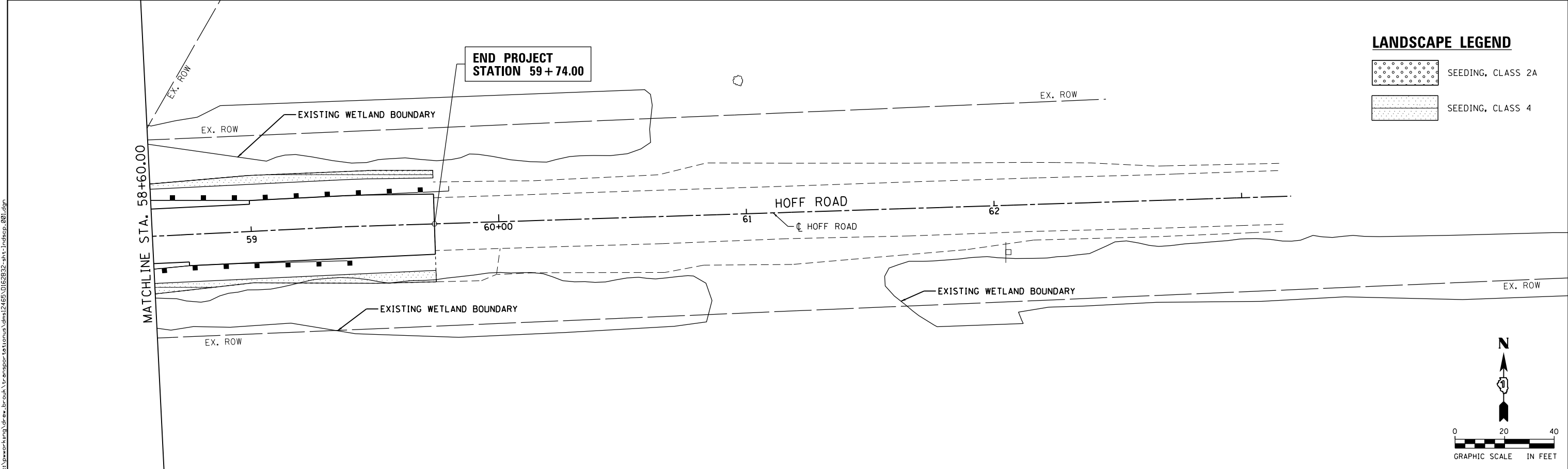
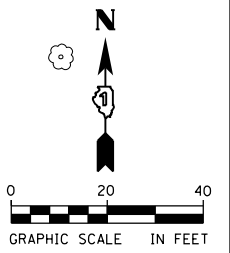
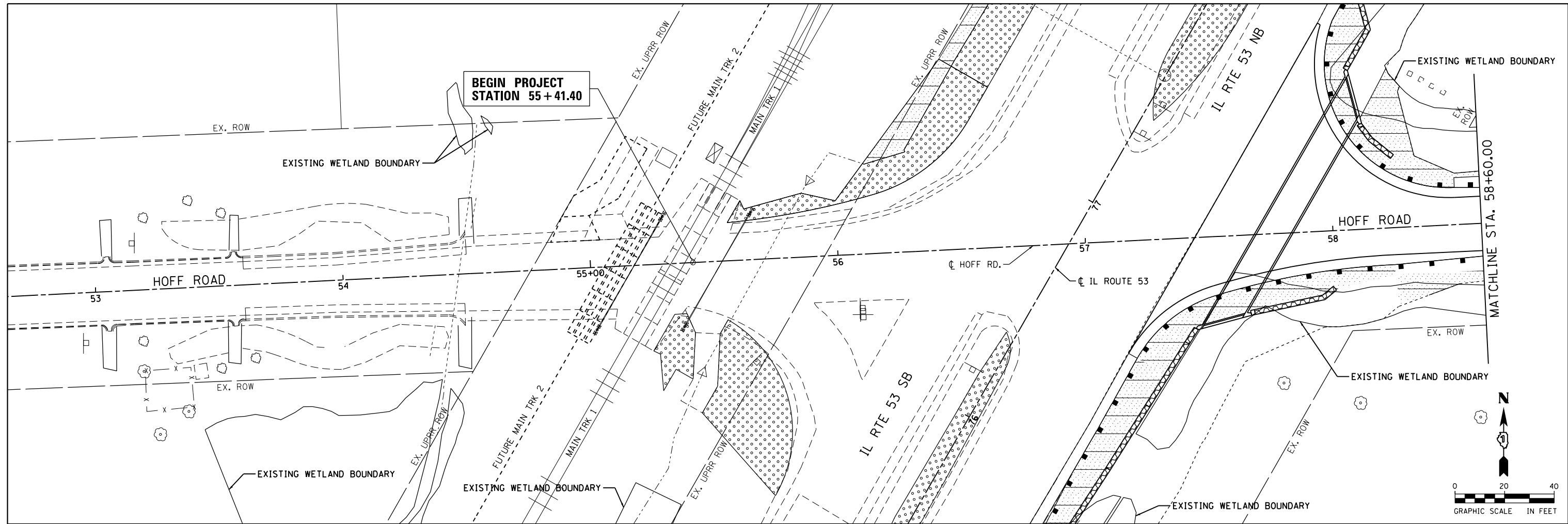
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS
STAGE 3 - IL ROUTE 53 AT HOFF ROAD**

SCALE: 1"=20' SHEET 10 OF 10 SHEETS STA. 75+31.00 TO STA. 82+95.94

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	52
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

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LANDSCAPE LEGEND

- SEEDING, CLASS 2A
- SEEDING, CLASS 4

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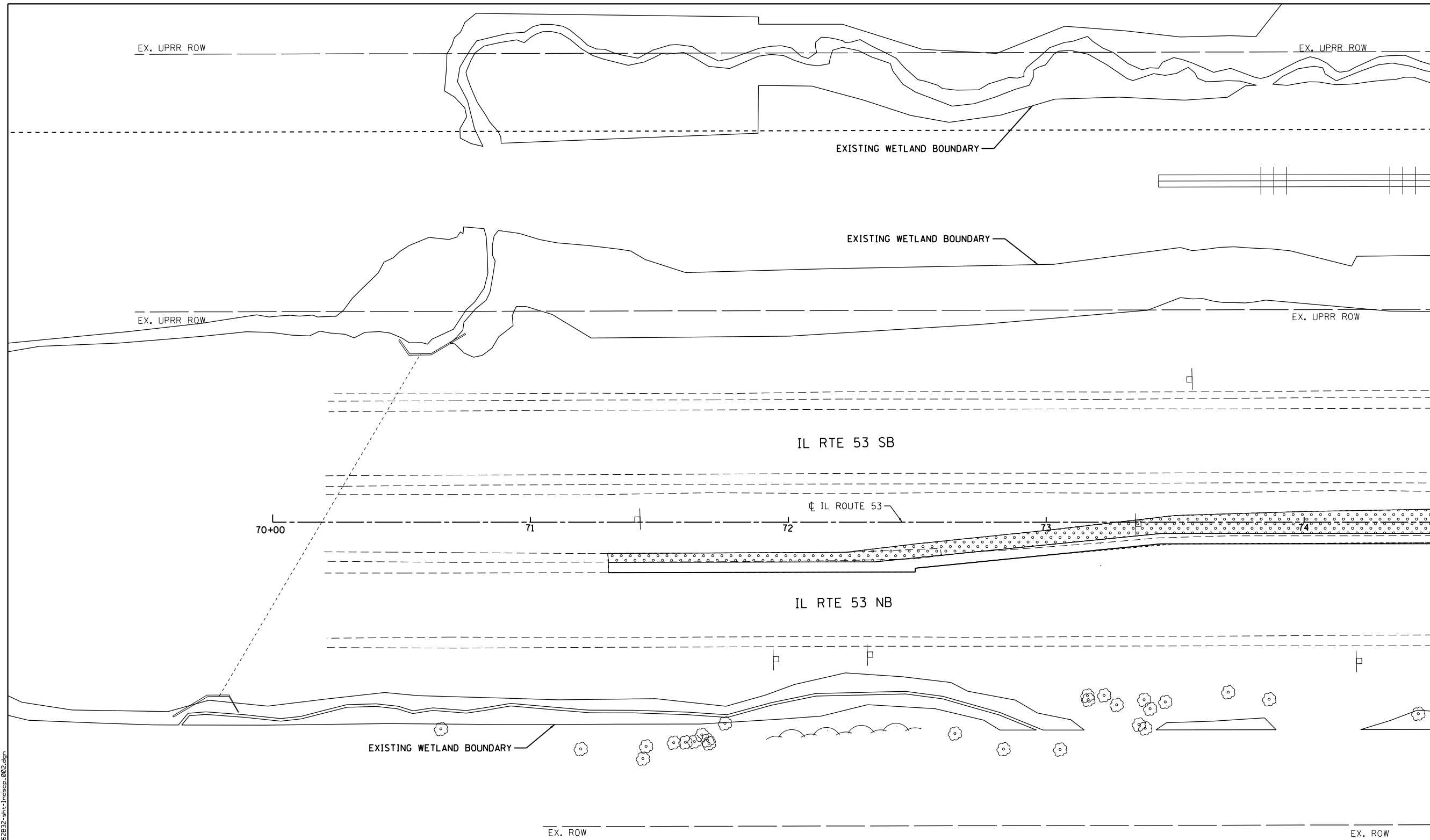
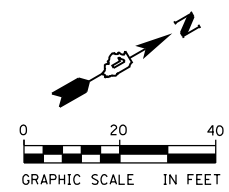
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	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLANS
IL ROUTE 53 AT HOFF ROAD**

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 55+41.40 TO STA. 59+74.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	53
			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				



LANDSCAPE LEGEND

	SEEDING, CLASS 2A
	SEEDING, CLASS 4

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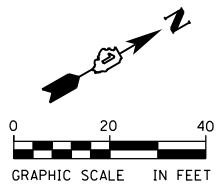
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	DRAWN - DAB	REVISED -
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PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLANS		
IL ROUTE 53 AT HOFF ROAD		
SCALE: 1"=20'	SHEET 2 OF 3 SHEETS	STA. 70+00.00 TO STA. 74+50.00

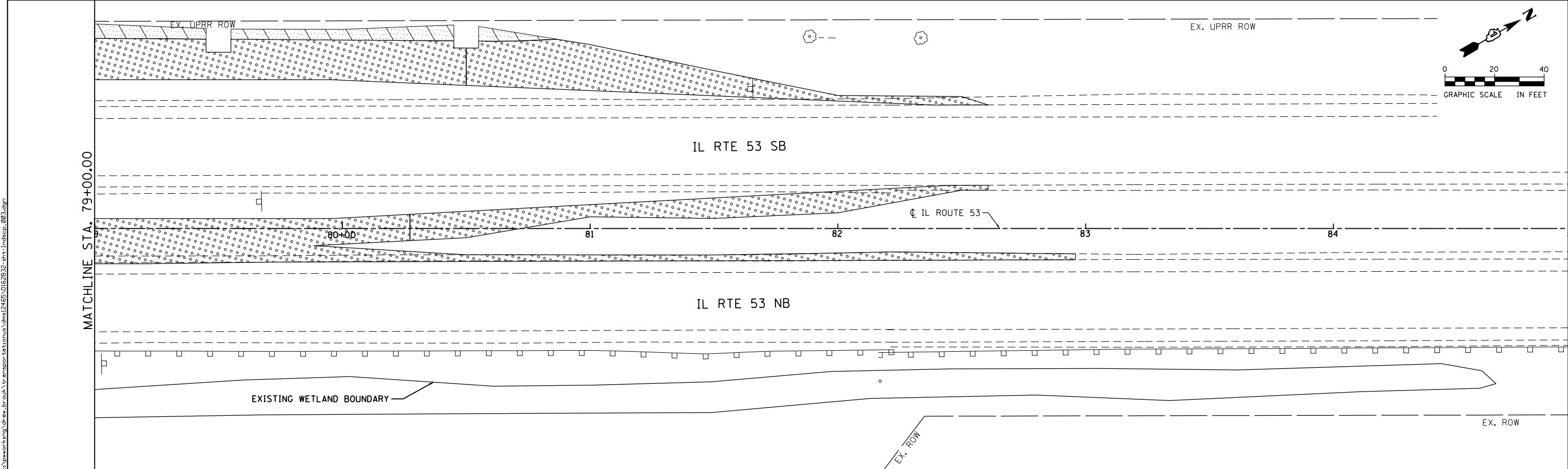
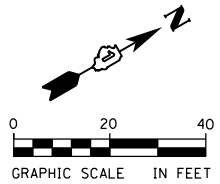
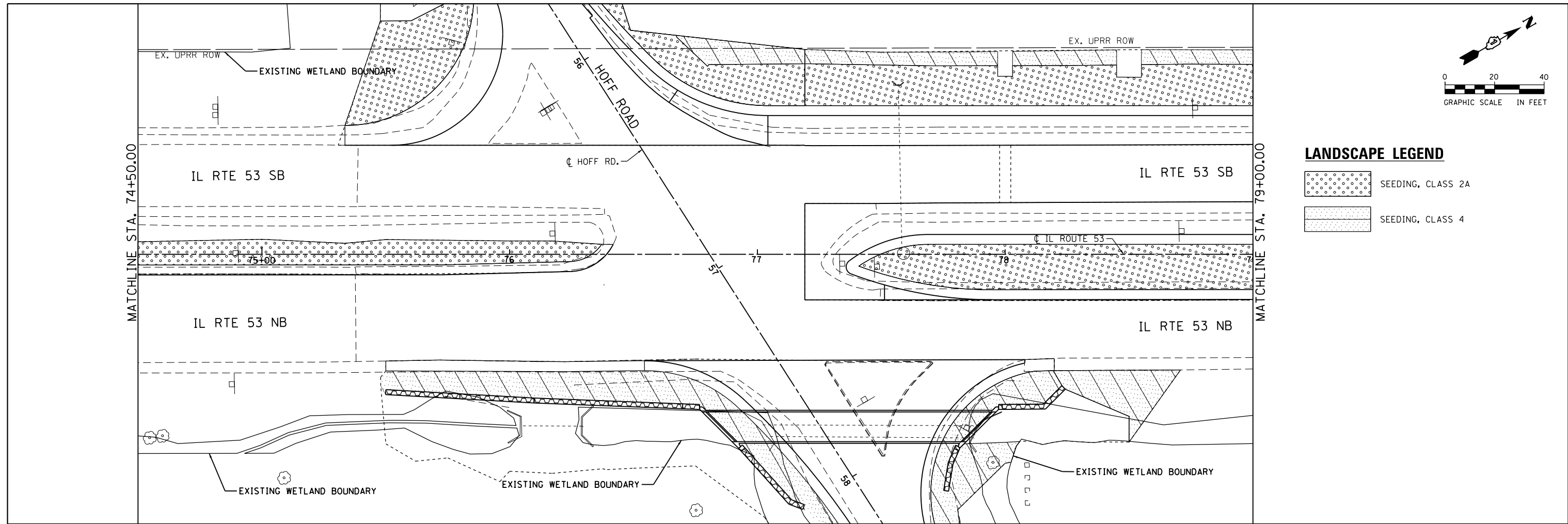
F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 54
			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 74+50.00



LANDSCAPE LEGEND

- SEEDING, CLASS 2A
- SEEDING, CLASS 4



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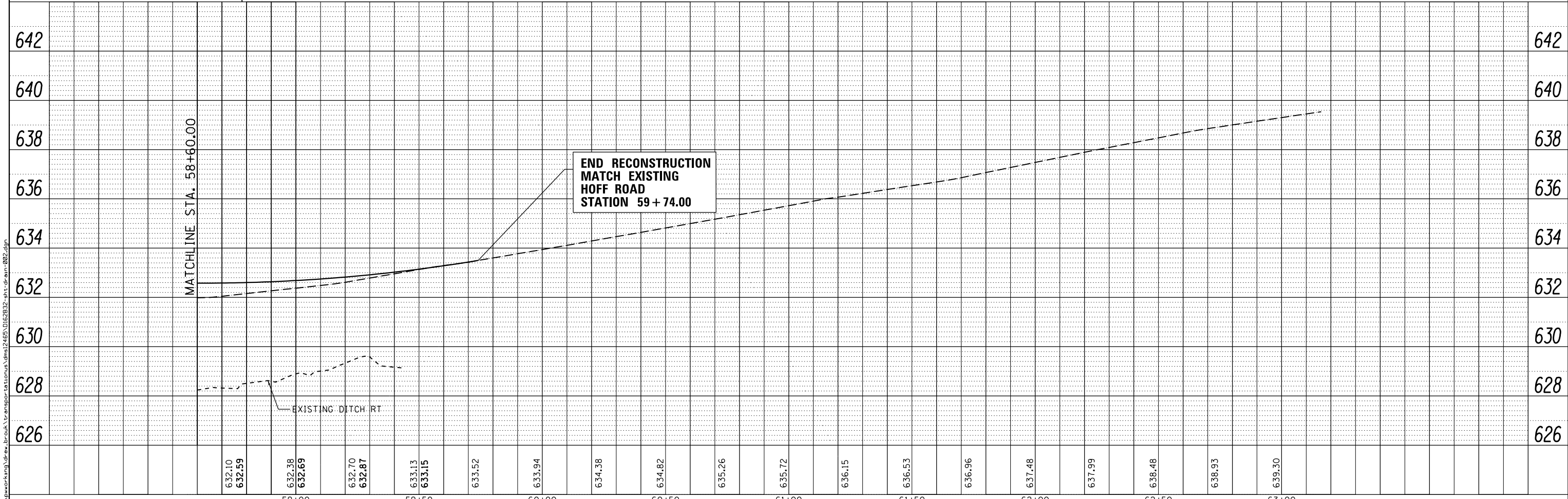
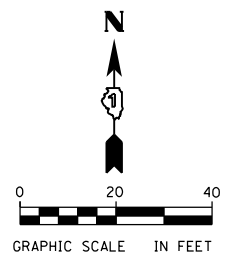
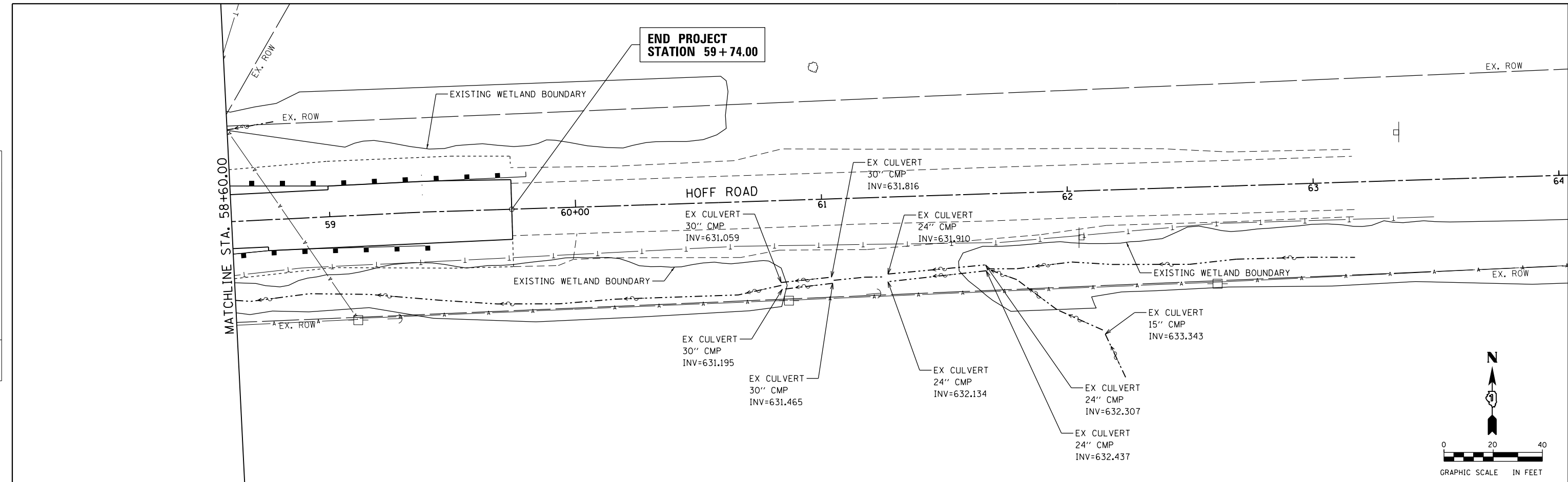
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLANS	
IL ROUTE 53 AT HOFF ROAD	
SCALE: 1"=20'	SHEET 3 OF 3 SHEETS
STA. 74+50.00 TO STA. 82+95.94	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	55
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIS	
	CPAD	
	NO.	

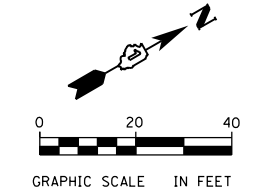
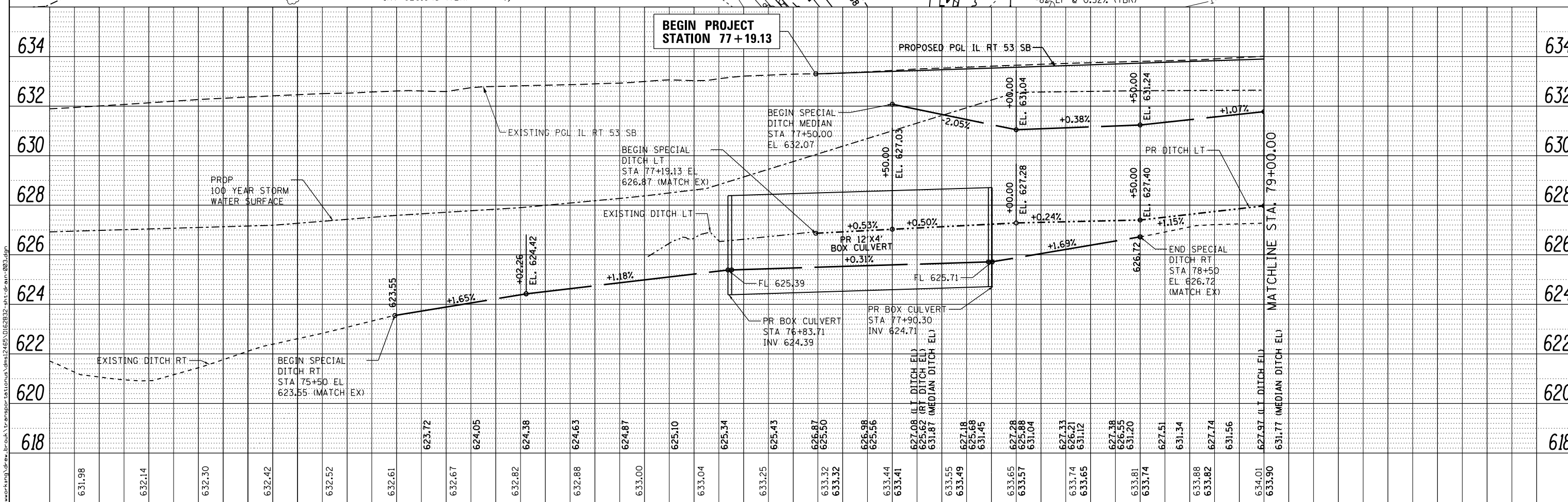
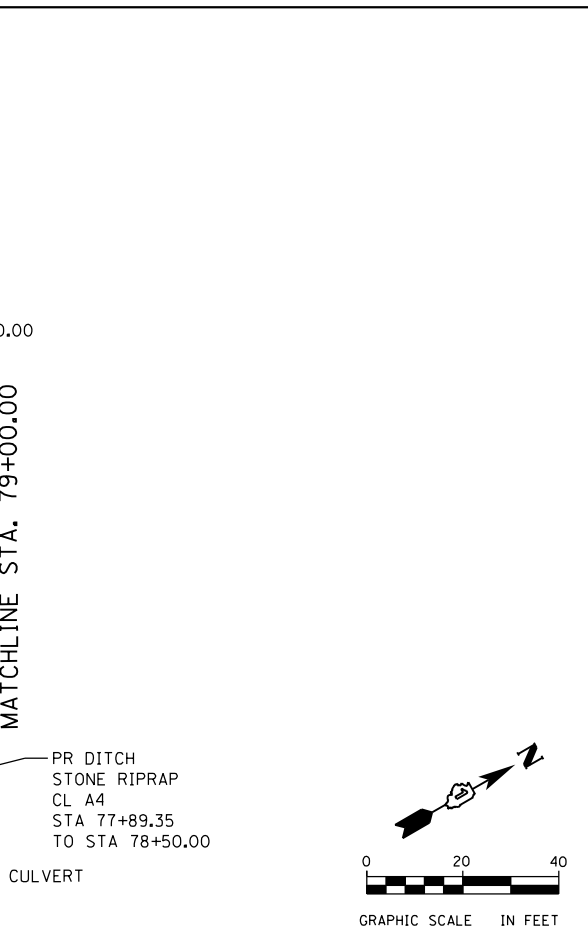
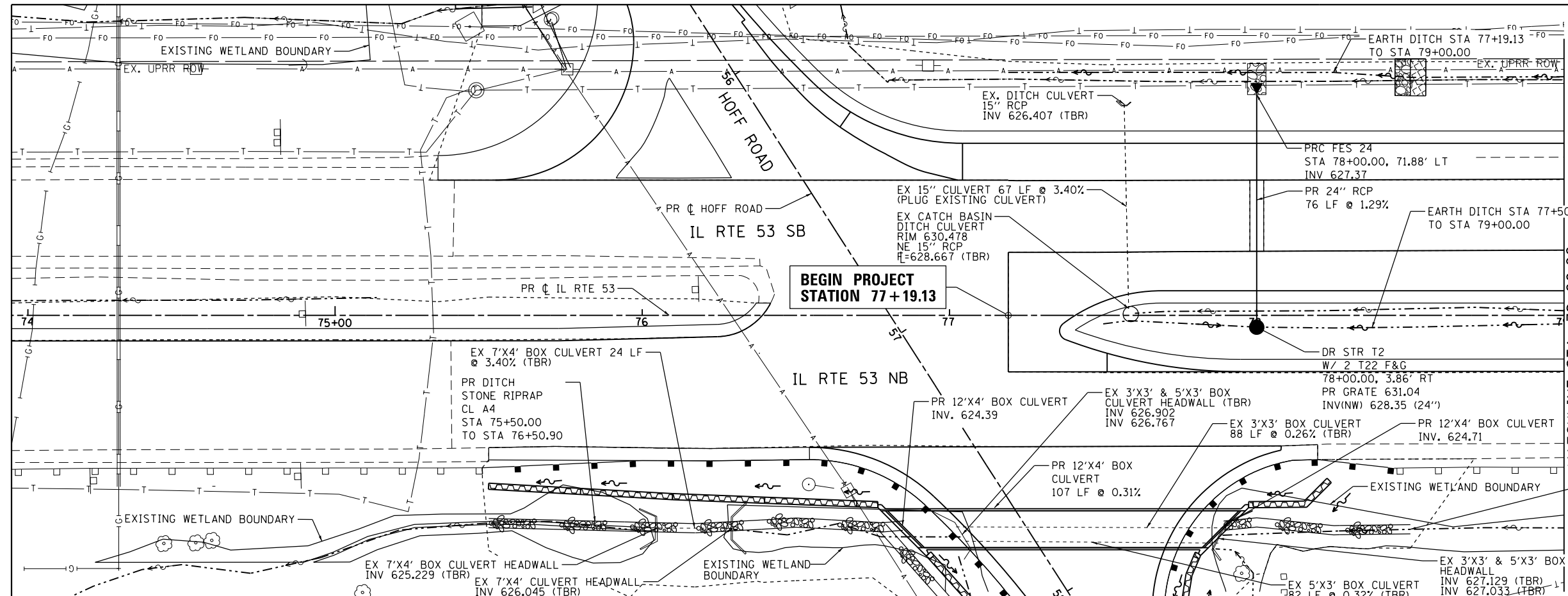


AECOM	USER NAME = drew.brouk	DESIGNED - MTL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLANS		F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 57
	PLOT SCALE = 48.0000 ft / in.	CHECKED - JCM	REVISED -		HOFF ROAD		CONTRACT NO. 62B32		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -		SCALE: 1" = 20'	SHEET 2 OF 4 SHEETS	STA. 58+60.00 TO STA. 59+74.00				

FILE NAME = c:\networking\drew_brouk\transportation\ams\2465\DIHSRR2016-01\62B32-art-drain-002.dgn

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	REVISIONS
	NO.
	DATE

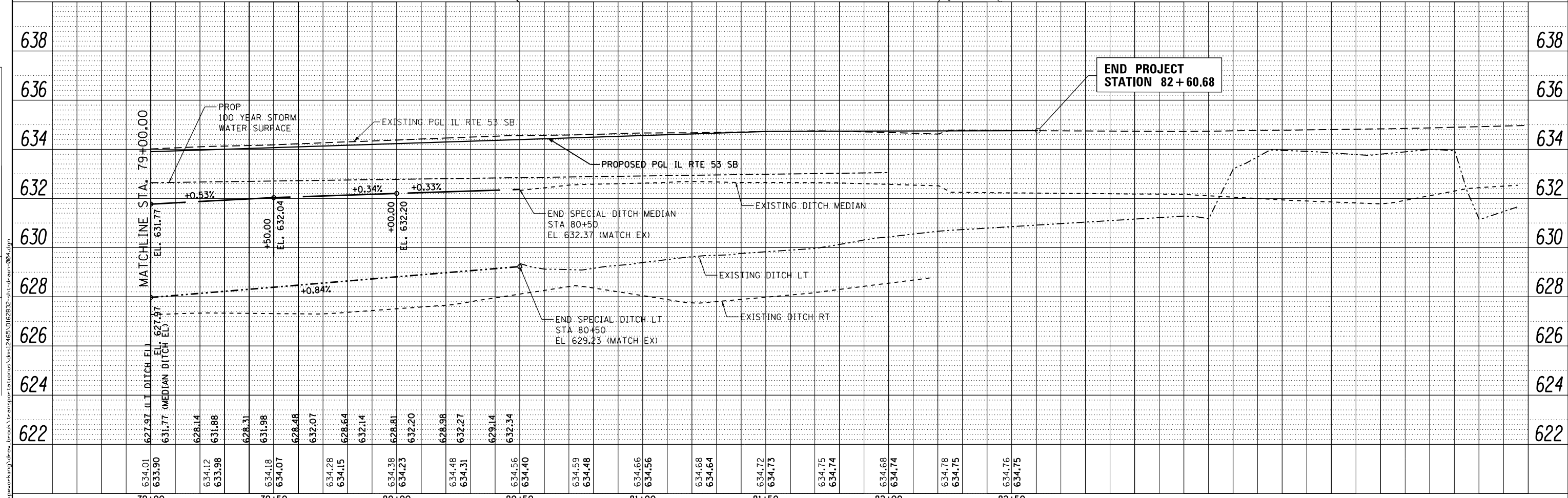
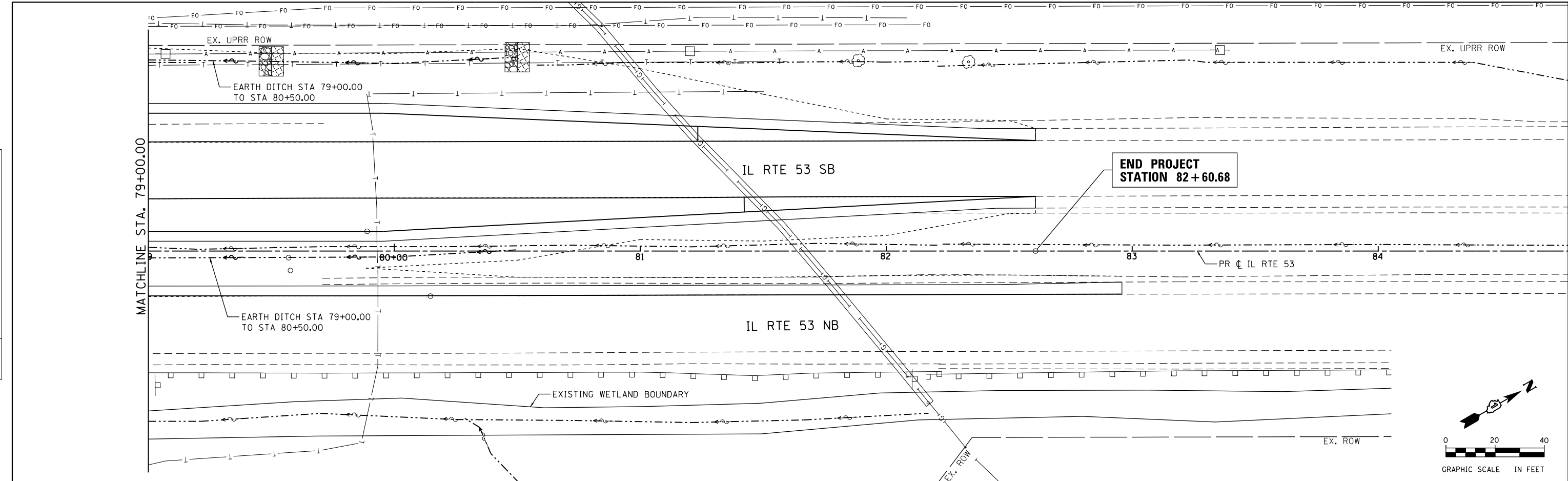
DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES
	CHECKED
	STRUCTURE
	NOTATIONS
	CHPND
	NO.
	DATE



AECOM	USER NAME = drew.brouk	DESIGNED - MTL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLANS ILLINOIS ROUTE 53	F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 58
	PLOT SCALE = 40.0000 ft / in.	CHECKED - JCM	REVISED -			SCALE: 1"=20'	SHEET 3 OF 4 SHEETS	STA. 75+50.00 TO STA. 79+00.00	CONTRACT NO. 62B32	
	PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -							

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	CADD FILE NAME	

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



634.01	633.90	628.14	631.88	628.31	631.98	634.07	628.48	632.07	634.28	634.15	634.38	634.23	628.98	634.48	634.31	629.14	632.34	634.56	634.40	634.59	634.48	634.66	634.56	634.68	634.64	634.72	634.73	634.75	634.74	634.68	634.74	634.78	634.75	634.76	634.75			
79+00																																						

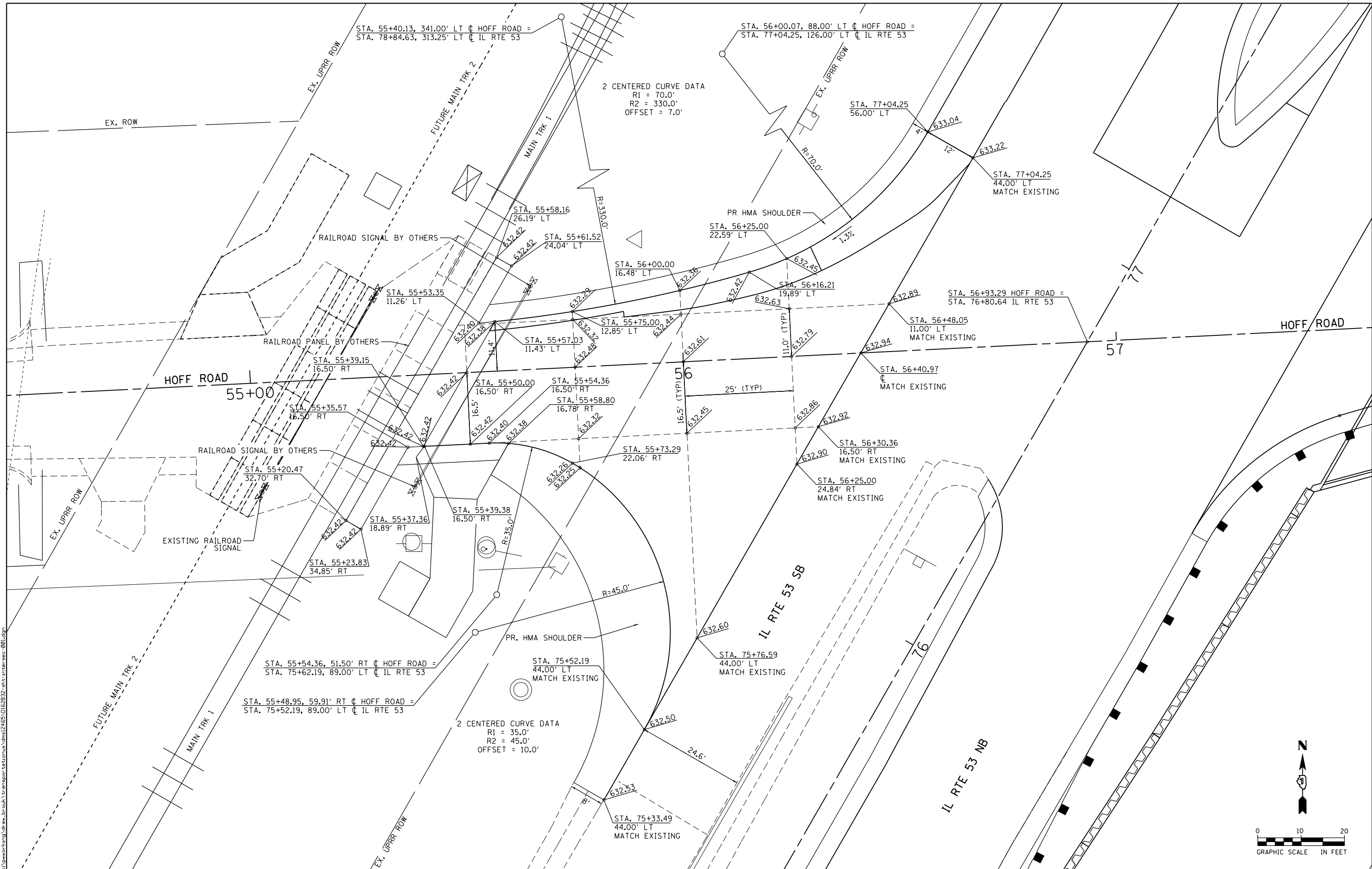


USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 40.0000 ft / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLANS	
ILLINOIS ROUTE 53	
SCALE: 1"=20'	SHEET 4 OF 4 SHEETS
STA. 79+00.00 TO STA. 82+95.81	

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 59
CONTRACT NO. 62B32				ILLINOIS FED. AID PROJECT



FILE NAME: c:\nework\hwy\drw\br\br\transport\atlocust\dm12465\DI62B32-ht-trn-rte-53-001.dwg

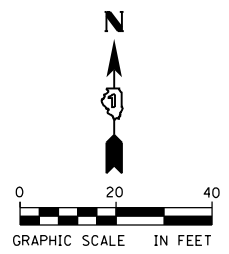
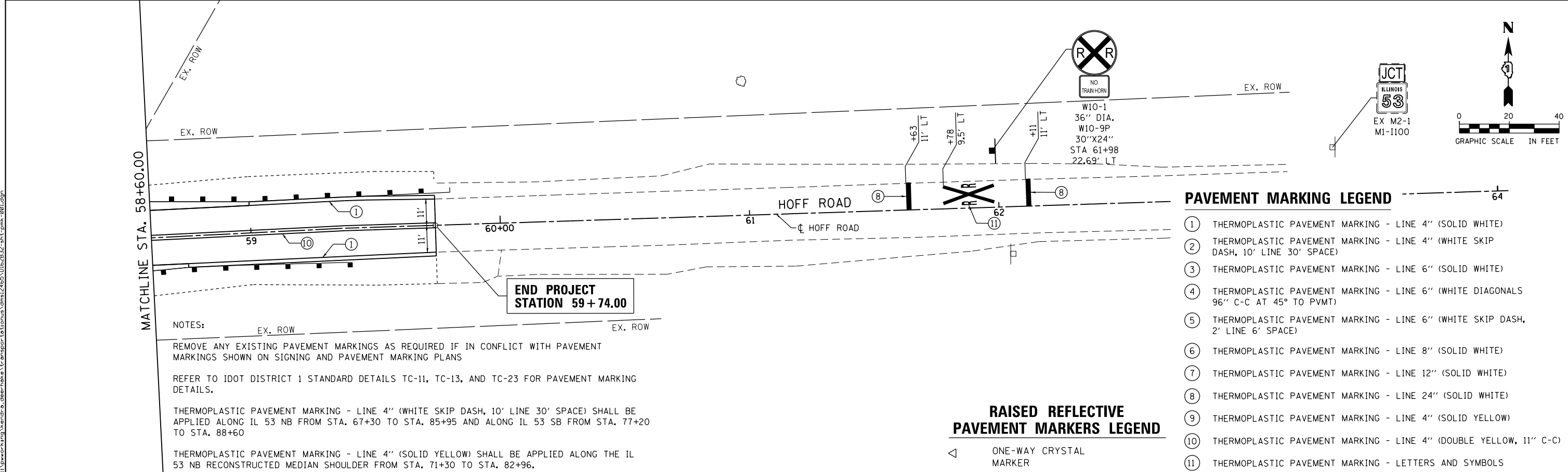
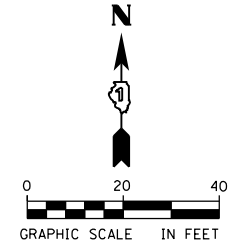
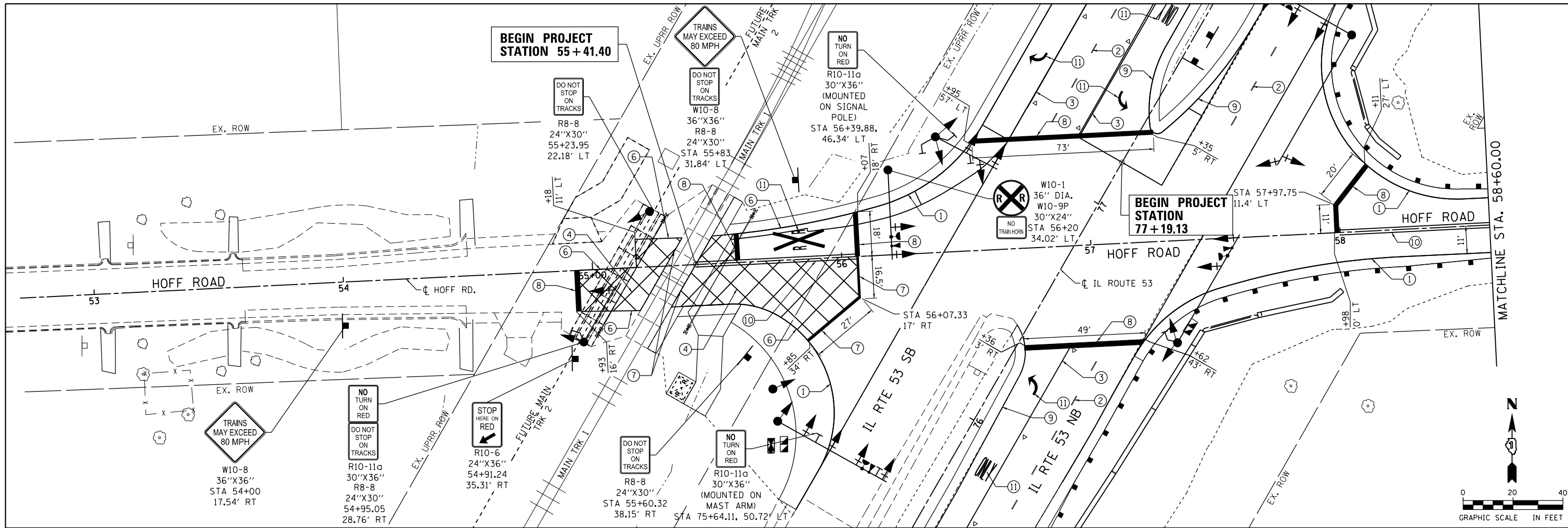


USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS IL ROUTE 53 AT HOFF RD.		
SCALE: 1" = 10'	SHEET 1 OF 2 SHEETS	STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	60
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



NOTES:

REMOVE ANY EXISTING PAVEMENT MARKINGS AS REQUIRED IF IN CONFLICT WITH PAVEMENT MARKINGS SHOWN ON SIGNING AND PAVEMENT MARKING PLANS

REFER TO IDOT DISTRICT 1 STANDARD DETAILS TC-11, TC-13, AND TC-23 FOR PAVEMENT MARKING DETAILS.

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SKIP DASH, 10' LINE 30' SPACE) SHALL BE APPLIED ALONG IL 53 NB FROM STA. 67+30 TO STA. 85+95 AND ALONG IL 53 SB FROM STA. 77+20 TO STA. 88+60

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW) SHALL BE APPLIED ALONG THE IL 53 NB RECONSTRUCTED MEDIAN SHOULDER FROM STA. 71+30 TO STA. 82+96.

- PAVEMENT MARKING LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SKIP DASH, 10' LINE 30' SPACE)
 - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE)
 - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS 96" C-C AT 45° TO PVMT)
 - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP DASH, 2' LINE 6' SPACE)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)
 - ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)
 - ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, 11" C-C)
 - ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- RAISED REFLECTIVE PAVEMENT MARKERS LEGEND**
- ◁ ONE-WAY CRYSTAL MARKER

AECOM	USER NAME = Kendra.Deerhake	DESIGNED - MTL	REVISED -
		DRAWN - DAB	REVISED -
	PLOT SCALE = 48.0000 ft / in.	CHECKED - JCM	REVISED -
	PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

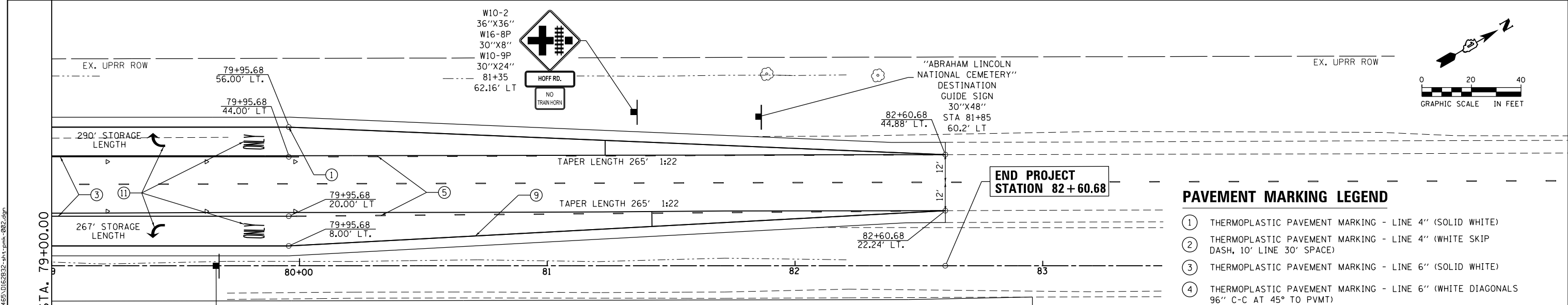
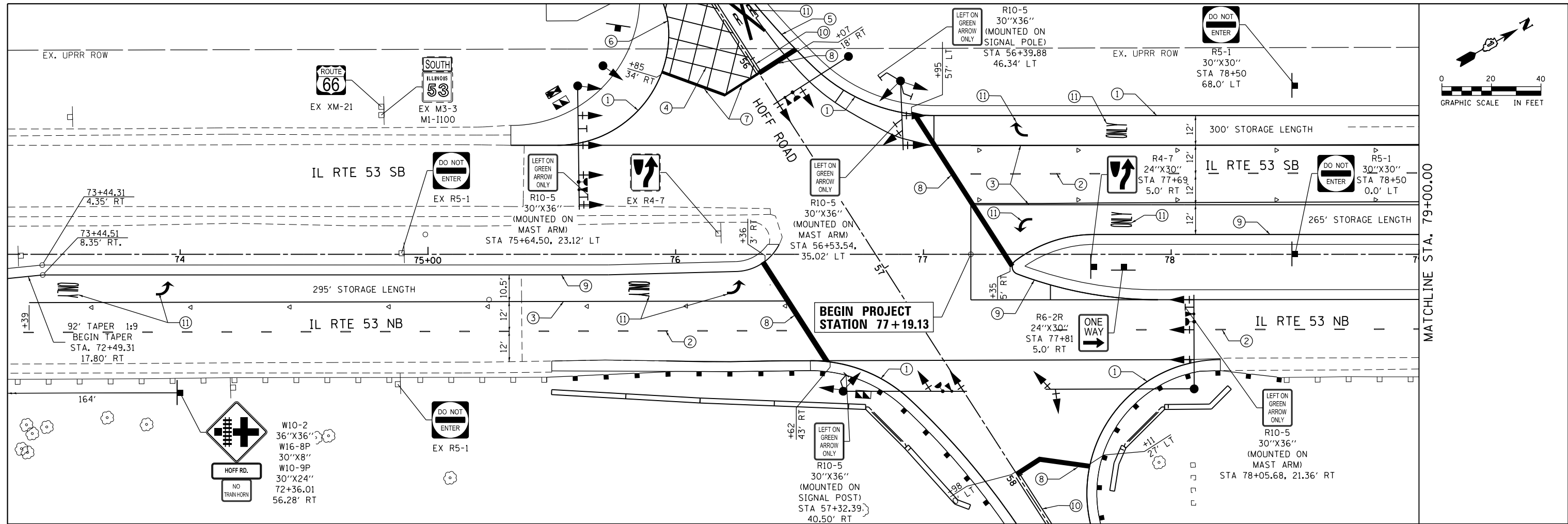
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING AND PAVEMENT MARKING PLANS

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 53+00.00 TO STA. 64+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	62
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

FILE NAME = c:\pwworking\kendra.deerhake\transportation\dm12465\0162B32-akt.rmk-001.dgn



- ### PAVEMENT MARKING LEGEND
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SKIP DASH, 10' LINE 30' SPACE)
 - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE)
 - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DIAGONALS 96" C-C AT 45° TO PVMT)
 - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP DASH, 2' LINE 6' SPACE)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE)
 - ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)
 - ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
 - ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, 11" C-C)
 - ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ### RAISED REFLECTIVE PAVEMENT MARKERS LEGEND
- ◁ ONE-WAY CRYSTAL MARKER

NOTES:

REMOVE ANY EXISTING PAVEMENT MARKINGS AS REQUIRED IF IN CONFLICT WITH PAVEMENT MARKINGS SHOWN ON SIGNING AND PAVEMENT MARKING PLANS

REFER TO IDOT DISTRICT 1 STANDARD DETAILS TC-11, TC-13, AND TC-23 FOR PAVEMENT MARKING DETAILS.

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SKIP DASH, 10' LINE 30' SPACE) SHALL BE APPLIED ALONG IL 53 NB FROM STA. 67+30 TO STA. 85+95 AND ALONG IL 53 SB FROM STA. 77+20 TO STA. 88+60

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW) SHALL BE APPLIED ALONG THE IL 53 NB RECONSTRUCTED MEDIAN SHOULDER FROM STA. 71+30 TO STA. 82+96.



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
PLOT SCALE = 48.0000 ft / in.	DRAWN - DAB	REVISED -
PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -
	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING AND PAVEMENT MARKING PLANS

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 73+00.00 TO STA. 85+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	63
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

FILE NAME: c:\pwworking\draw.brouk\transportation\12465\0162B32-sht-tpmk-082.dgn



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Chicago, Illinois 60607
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SOIL BORING LOG

Page 1 of 2
Date 9/8/15

ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721479.5309 Easting 1043566.8366
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-1
Station
Offset
Ground Surface Elev. 630.46 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter NA ft
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	GRAFT LOG (/6")	BLOWS (tsf)	UCS (%)	MOIST (pcf)	ORGANIC (%)	NOTES
627.96	7					6 inches of Asphalt 24 inches of crushed aggregate base
	9		5			
	10					
625.46	3					Dark Gray to Black, Very Moist FILL: CLAY, trace organics
	3	2.0	25			
	4	P				
622.96	1					Stiff Dark Gray Clay, Very Moist CLAY (CL)
	2	1.5	31			
	2	P				
	3					Very Stiff to Hard Brown and Gray, Moist SILTY CLAY (CL/ML), trace gravel
	4	3.1	17			
	5	B				
	7	5.0	15			
	8	B				
	4					
	6	5.0	18			
	8	B				
613.96	3					Very Stiff Gray, Moist SILTY CLAY (CL/ML), trace gravel
	4	3.5	18			
	6	B				
	3					
	5	3.5	17			
	7	B				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

Page 2 of 2
Date 9/8/15

ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721479.5309 Easting 1043566.8366
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-1
Station
Offset
Ground Surface Elev. 630.46 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter NA ft
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	GRAFT LOG (/6")	BLOWS (tsf)	UCS (%)	MOIST (pcf)	ORGANIC (%)	NOTES
605.46	4					Very Stiff Gray, Moist SILTY CLAY (CL/ML), trace gravel (continued)
	5	3.1	15			
	7	B				
	7					
	6	3.5	15			
	8	B				
						End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

FILE NAME: c:\yearworking\transportation\dem1265\0162832-111-b1-log-001.dgn



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - DAB	REVISED -
PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -
	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING DETAILS
BORING LOGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	64
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



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SOIL BORING LOG

Page 1 of 2
Date 9/8/15

ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721561.4491 Easting 1043734.4447
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-3
Station
Offset
Ground Surface Elev. 632.33 ft

DEPTH (ft) GRAIN LOG (ft) BLOWS (tsf) MOIST (%) ORGANIC (%)

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter NA ft
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	GRAIN LOG (ft)	BLOWS (tsf)	MOIST (%)	ORGANIC (%)	NOTES
631.33					Gray, Moist FILL: Crushed aggregate
5					
4		2.5	21		
5		P			
3					
17		2.0	20		Noted a thin layer of gray sand at 4 feet
14		P			
627.33					Stiff Dark Gray to Black, Very Moist CLAY (CH)
3					
3		1.5	44		
4		P			
3					
3		1.5	26		
3		P			
622.83					Very Stiff to Hard Brown and Gray, Moist SILTY CLAY (CL/ML), trace gravel
3					
4		3.1	17	114.6	
7		B			
3					
4		3.5	16		
9		B			
615.33					Very Stiff to Hard Gray, Moist SILTY CLAY (CL/ML), trace gravel
5					
6		5.0	16		
8		B			
4					
6		4.2	15		
8		B			
-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

Page 2 of 2
Date 9/8/15

ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721561.4491 Easting 1043734.4447
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-3
Station
Offset
Ground Surface Elev. 632.33 ft

DEPTH (ft) GRAIN LOG (ft) BLOWS (tsf) MOIST (%) ORGANIC (%)

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter NA ft
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	GRAIN LOG (ft)	BLOWS (tsf)	MOIST (%)	ORGANIC (%)	NOTES
607.33					Very Stiff to Hard Gray, Moist SILTY CLAY (CL/ML), trace gravel (continued)
4					
6		3.5	15		
7		B			
6					
5		3.1	15		
8		B			
607.33					End of Boring
-25					
-30					
-35					
-40					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

FILE NAME: c:\yearchung\drw\brn\transportat\work\1265\0162B32-sht-blog-002.dgn



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING DETAILS
BORING LOGS

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	66
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



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SOIL BORING LOG

Page 1 of 2
Date 9/8/15

ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721472.7763 Easting 1043839.3169
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-4
Station 76+80
Offset
Ground Surface Elev. 631.01 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter 613.5 ft ▼
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	ORGANIC (%)	NOTES
8					Gray, Moist FILL: Crushed aggregate
6		6			
2					628.51
3					Black and Brown, Very Moist FILL: CLAY
3	2.0	30	92.5		
4	P				626.01
2					Very Stiff Brown and Gray, Moist CLAY (CL), trace gravel
3	2.5	19			
4	P				
6					
4	2.5	19			
5	B				-10
3					
5	3.5	17	114.8		
7	B				
3					617.01
7	5.0	15			Hard Gray, Moist SILTY CLAY (CL/ML), trace gravel
8	B				-15
5					
7	5.0	15			
14	B				613.51 ▼
2					Medium Dense Gray, Moist SAND (SP), trace gravel
2					612.51
4	3.1	17			Very Stiff Gray, Moist
5	B				SILTY CLAY (CL), trace gravel
5					
6	2.1	27			
7	B				-20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

Page 2 of 2
Date 9/8/15

ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721472.7763 Easting 1043839.3169
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-4
Station 76+80
Offset
Ground Surface Elev. 631.01 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter 613.5 ft ▼
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	ORGANIC (%)	NOTES
3					Very Stiff Gray, Moist SILTY CLAY (CL), trace gravel (continued)
4	2.5	16	117.2		
7	B				
3					
4	2.1	16			
7	B				-25
3					
5	2.5	16			
7	B				
4					602.01
9	2.0	8	133.1		Stiff Gray, Moist SILT (ML)
11	P				-30
4					
9		17			
11					596.01 -35
5					Very Stiff Gray, Very Moist CLAY (CL)
6	2.1	27			
7	B				-40

End of Boring
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

FILE NAME: c:\yearchung\drw\brn\transportat\unconf\12465\DI62B32-111-b1-log-004.dgn



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 4 OF 5 SHEETS		STA. TO STA.	
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SOIL BORING DETAILS
BORING LOGS

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 67
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



GSG CONSULTANTS, INC.
855 West Adams, Suite 200
Chicago, Illinois 60607
tel: 312.733.6262 • fax: 312.733.5612

SOIL BORING LOG

Page 1 of 2
Date 9/8/15

ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721572.1243 Easting 1043903.3096
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-5
Station 78+10
Offset
Ground Surface Elev. 632.68 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter 626.2 ft ▼
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	ORGANIC (%)	NOTES
4					Gray, Moist FILL: Crushed aggregate
5	3.0		16		
6	P				Black and Gray, Moist FILL: CLAY
4					
3	2.0		17		
4	P				Stiff Dark Gray to Brown, Very Moist CLAY (CL)
2					
1	1.0		30		
2	P				
1					
1	1.5		15	99.3	
2	P				
3					Very Stiff to Hard Brown and Gray, Very Moist SILTY CLAY (CL/ML), trace gravel
5	2.0		20		
5	P				
4					
6	5.0		30	116.3	
8	B				
4					
6	4.0		19		
7	P				
4					
7	3.1		17		
7	B				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

Page 2 of 2
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ROUTE IL Rte. 53 & Hoff Rd. DESCRIPTION High Speed Rail Chicago to Quad Cities LOGGED BY JAR
SECTION Mile Post 46.64 LOCATION Northing 1721572.1243 Easting 1043903.3096
COUNTY Will DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. NA
Station NA
BORING NO. FB-5
Station 78+10
Offset
Ground Surface Elev. 632.68 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter 626.2 ft ▼
Upon Completion None ft
After NA Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	ORGANIC (%)	NOTES
3					Very Stiff to Hard Gray, Moist SILTY CLAY (CL/ML), trace gravel (continued)
6	2.5		16		
8	B				
3					
5	2.5		15	119.1	
8	B				
3					
4	2.5		17		
5	B				
4					
6	4.2		16		
9	B				
5					
6	4.2		15		
11	B				
4					
6	3.1		24		
8	B				

End of Boring
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

FILE NAME: c:\nework\hunting\draw\brn\transport\station\12465\0162832-shit-blog-005.dgn



USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DAB	REVISED -
PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -
	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING DETAILS
BORING LOGS

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

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 68
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123.
3. REFER TO THE UNION PACIFIC GENERAL NOTES ON THE CONTRACT GENERAL NOTES SHEET FOR CONTACT INFORMATION REGARDING THE LOCATION OF FIBER OPTIC CABLES WITHIN THE UNION PACIFIC RIGHT OF WAY.
4. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, IDOT, THE UPRR, AND WILL COUNTY DIVISION OF TRANSPORTATION.
6. PROPOSED DRAINAGE STRUCTURES AND GEOMETRIC IMPROVEMENTS, INCLUDING TRACK WORK, ROADWAY MODIFICATIONS, PAVEMENT MARKING, DRIVEWAY, AND SIDEWALKS, BY OTHERS.
7. CHANGEABLE MESSAGE SIGNS WILL BE REQUIRED FOR BOTH SOUTHBOUND AND NORTHBOUND ILL. RTE. 53 ONE WEEK BEFORE THE TRAFFIC SIGNAL TURN-ON WARNING DRIVERS THAT THE NEW TRAFFIC SIGNAL WILL BE TURNED-ON ON A GIVEN DATE. THE CHANGEABLE MESSAGE SIGNS WILL NEED TO REMAIN IN PLACE ONE WEEK AFTER THE SIGNAL TURN-ON WARNING DRIVERS OF THE NEW TRAFFIC SIGNAL.
8. DESIGN RESULTS BASED ON BORING LOGS NEAR TRAFFIC SIGNAL FOUNDATION LOCATIONS INDICATE ADEQUACY OF STANDARD FOUNDATION DEPTHS PER HIGHWAY STANDARD 878001-10 WITH THE EXCEPTION OF THE FOUNDATIONS AT STA. 57+17.60, 22.7' RT & STA. 106+48.56, 43.9' LT. FOR THESE TWO LOCATIONS, STANDARD FOUNDATION DEPTH SHALL BE INCREASED BY 1' OF THE VALUE SHOWN IN 878001-10 UNLESS THE FOLLOWING IS VERIFIED BY THE ENGINEER WITH TESTING DURING FOUNDATION DRILLING: COHESIVE SOILS (CLAYEY SILT, SANDY CLAY, ETC.) ARE PRESENT ALONG THE LENGTH OF THE SHAFT, WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH (QU) GREATER THAN 1.0 TONS/SQ. FT.

CONSTRUCTION NOTES:

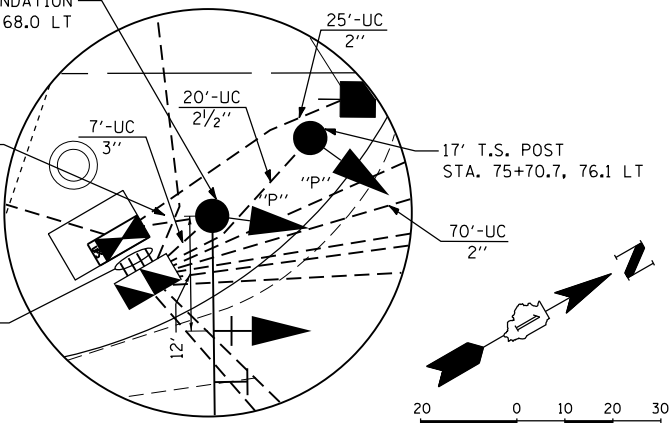
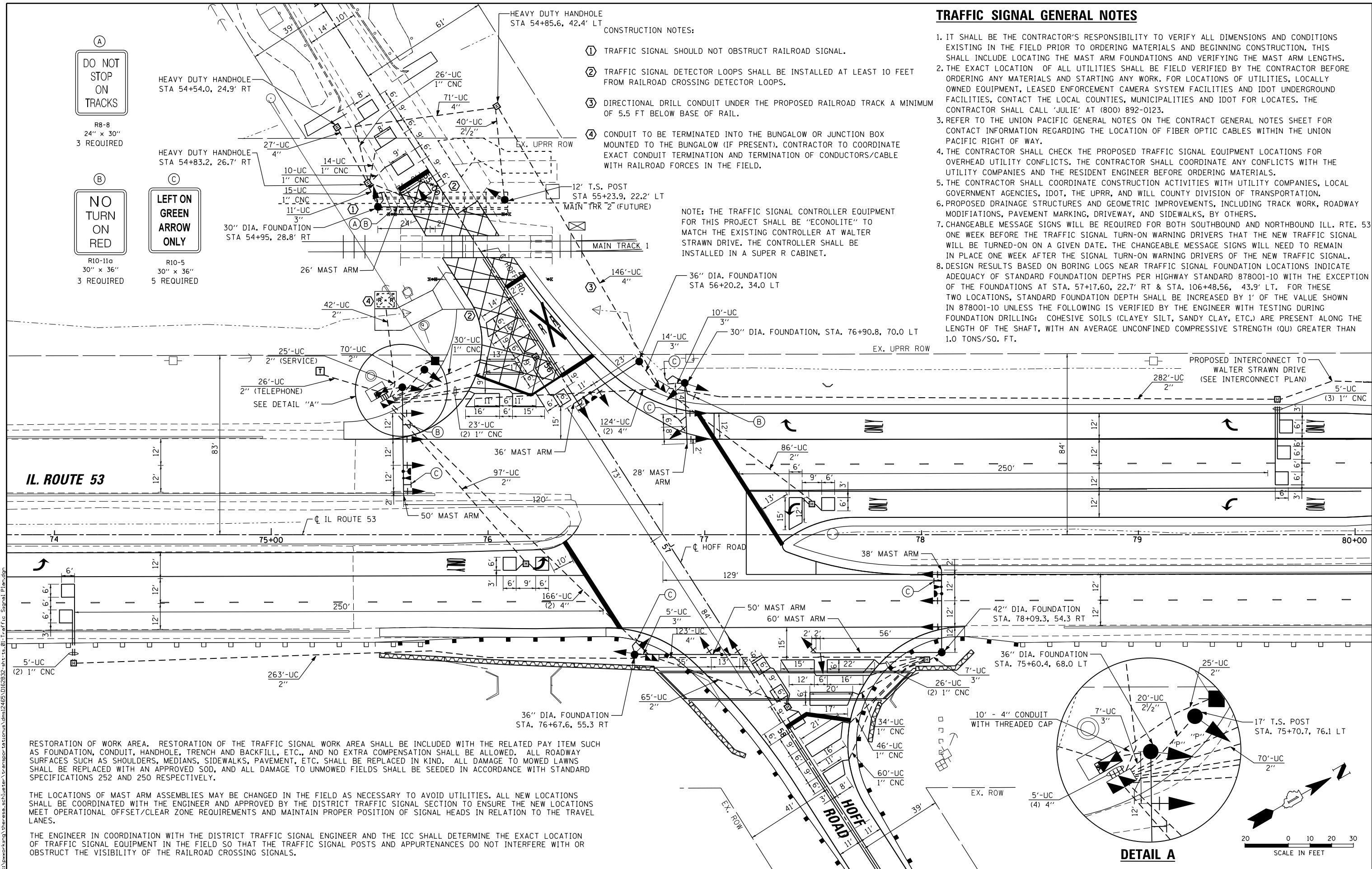
1. TRAFFIC SIGNAL SHOULD NOT OBSTRUCT RAILROAD SIGNAL.
2. TRAFFIC SIGNAL DETECTOR LOOPS SHALL BE INSTALLED AT LEAST 10 FEET FROM RAILROAD CROSSING DETECTOR LOOPS.
3. DIRECTIONAL DRILL CONDUIT UNDER THE PROPOSED RAILROAD TRACK A MINIMUM OF 5.5 FT BELOW BASE OF RAIL.
4. CONDUIT TO BE TERMINATED INTO THE BUNGALOW OR JUNCTION BOX MOUNTED TO THE BUNGALOW (IF PRESENT). CONTRACTOR TO COORDINATE EXACT CONDUIT TERMINATION AND TERMINATION OF CONDUCTORS/CABLE WITH RAILROAD FORCES IN THE FIELD.

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING CONTROLLER AT WALTER STRAWN DRIVE. THE CONTROLLER SHALL BE INSTALLED IN A SUPER R CABINET.

DO NOT STOP ON TRACKS
R8-8
24" x 30"
3 REQUIRED

NO TURN ON RED
R10-5
30" x 36"
3 REQUIRED

LEFT ON GREEN ARROW ONLY
R10-5
30" x 36"
5 REQUIRED



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

THE LOCATIONS OF MAST ARM ASSEMBLIES MAY BE CHANGED IN THE FIELD AS NECESSARY TO AVOID UTILITIES. ALL NEW LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER AND APPROVED BY THE DISTRICT TRAFFIC SIGNAL SECTION TO ENSURE THE NEW LOCATIONS MEET OPERATIONAL OFFSET/CLEAR ZONE REQUIREMENTS AND MAINTAIN PROPER POSITION OF SIGNAL HEADS IN RELATION TO THE TRAVEL LANES.

THE ENGINEER IN COORDINATION WITH THE DISTRICT TRAFFIC SIGNAL ENGINEER AND THE ICC SHALL DETERMINE THE EXACT LOCATION OF TRAFFIC SIGNAL EQUIPMENT IN THE FIELD SO THAT THE TRAFFIC SIGNAL POSTS AND APPURTENANCES DO NOT INTERFERE WITH OR OBSTRUCT THE VISIBILITY OF THE RAILROAD CROSSING SIGNALS.



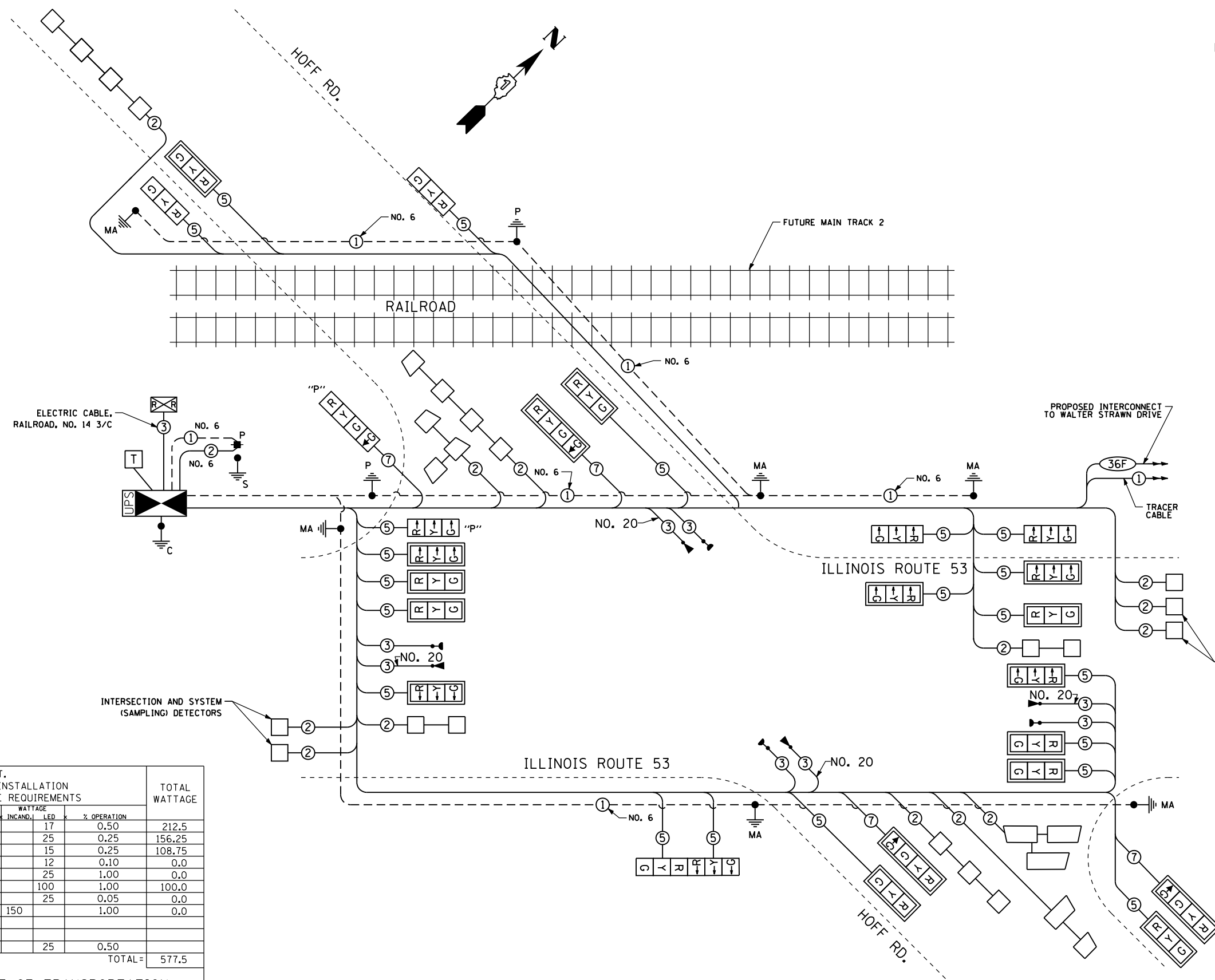
USER NAME - Theresa.Schlueter	DESIGNED - MJL	REVISED -
PLOT SCALE - 40.0000 ft / in.	DRAWN - MJL	REVISED -
PLOT DATE - 4/15/2016	CHECKED - JAL	REVISED -
	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
IL ROUTE 53 AND HOFF ROAD**

SCALE: 1"=20' SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 69
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



- NOTE:**
1. THE TRAFFIC SIGNAL CONTROLLER SHALL HAVE REMOTE MONITORING CAPABILITES INCLUDING ALL NECESSARY PERIPHERAL HARDWARE SUCH AS A PHONE MODEM, INTERSECTION MONITOR, ETC. TO ALLOW FOR BOTH REMOTE DIAL-IN ACCESS AND AUTOMATIC CONTROLLER DIAL-OUT REPORTING OF ALARMS. THE COST OF THE NECESSARY ADDITIONAL HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR "RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET, SPECIAL."
 2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING CONTROLLER AT WALTER STRAWN DRIVE. THE CONTROLLER SHALL BE INSTALLED IN A SUPER R CABINET.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND.	LED	% OPERATION		
SIGNAL (RED)	25		17	0.50		212.5
(YELLOW)	25		25	0.25		156.25
(GREEN)	29		15	0.25		108.75
ARROW	0		12	0.10		0.0
PED. SIGNAL	--		25	1.00		0.0
CONTROLLER	1		100	1.00		100.0
ILLUM. SIGN	--		25	0.05		0.0
VIDEO SYSTEM	--		150	1.00		0.0
FLASHER			25	0.50		
ENERGY COST TO:					TOTAL=	577.5

ILLINOIS DEPARTMENT OF TRANSPORTATION

ENERGY SUPPLY: CONTACT: LUCY ANDERBERG
 PHONE: (815) 724-5691
 COMPANY: COMMONWEALTH EDISON

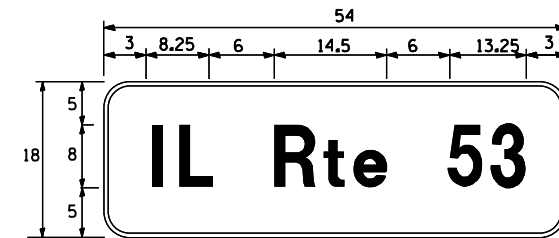
CABLE PLAN

FILE NAME: c:\neworking\matthew.libera\transportation\dm12465\0162832-ht-ts-02-Cable Plan.dgn

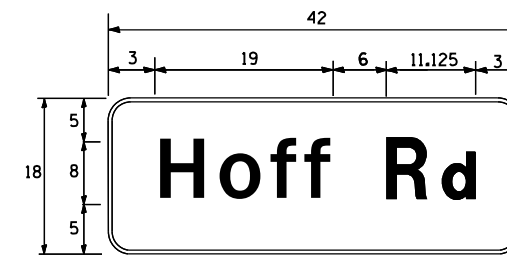
SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	24
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	956
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	54
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	967
HEAVY-DUTY HANDHOLE	EACH	10
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	976
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5,166
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	964
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,021
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	80
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	43
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,026
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 17 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	22
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	17
INDUCTIVE LOOP DETECTOR	EACH	13
DETECTOR LOOP, TYPE I	FOOT	1,127
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	976
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	5.25	1	ZZ	2

FILE NAME = c:\working\theresa.schluter\transportation\12465\12465-D162832-ht-ts-03-Street Name Sign Design and S00.dgn



USER NAME = Theresa.Schluter	DESIGNED - MJL	REVISED -
	DRAWN - MJL	REVISED -
PLOT SCALE = 48.0000 ft / in.	CHECKED - JAL	REVISED -
PLOT DATE = 4/15/2016	DATE - 03/21/2016	REVISED -

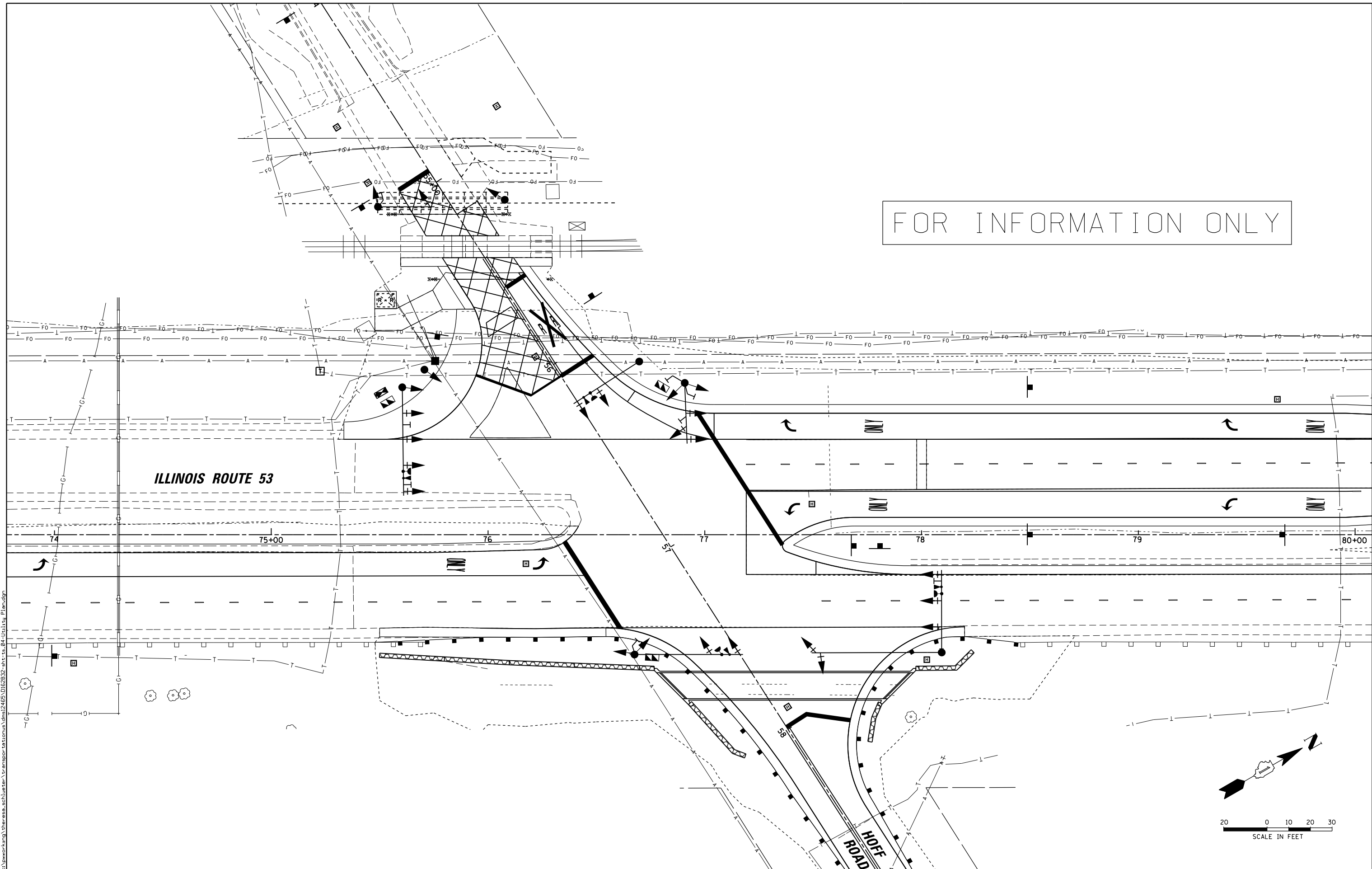
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES /MAST ARM MOUNTED STREET NAME SIGNS
IL ROUTE 53 AND HOFF ROAD

SCALE: NTS SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	71
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



FILE NAME = c:\working\theresa.schlueter\transportation\12465\DI62B32-sh-ts_04-Utility_Plan.dgn



USER NAME = Theresa.Schlueter	DESIGNED - MJL	REVISED -
	DRAWN - MJL	REVISED -
PLOT SCALE = 40.0000 ft / in.	CHECKED - ZGJ	REVISED -
PLOT DATE = 4/15/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UTILITY PLAN
IL ROUTE 53 AND HOFF ROAD

SCALE: 1"=20' SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	72
				CONTRACT NO. 62B32
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

						FLASH																						
MOVEMENT																												
PHASE	1 + 5						1 + 6			2 + 5			2 + 6						3			4						
INTERVAL	1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8A	8B	9	10A	10B	11A	11B	12A	12B	13	14A	14B	15	16A	16B	16C	16D
CHANGE TO	1 + 6						2 + 5			2 + 6			1 + 6						2 + 5			1 + 5, 1 + 6, 2 + 5, 2 + 6						
ILLINOIS ROUTE 53 FAR LEFT AND LEFT MAST ARM SIGNALS S/B	←G	←G	←G	←Y	←R	←Y	←R	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
ILLINOIS ROUTE 53 CENTER LEFT AND CENTER RIGHT MAST ARM AND LEFT NEAR REVERSE MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	G	G	G	R	R	R	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 53 RIGHT MAST ARM, FAR RIGHT, RIGHT NEAR REVERSE MAST ARM, AND NEAR RIGHT SIGNALS S/B	→R	→R	→R	→R	→R	→R	→R	→G	→G	→G	→R	→R	→R	→G	→Y	→R	→G	→G	→Y	→R	→R	→R	→R	→R	→R	→R	→R	→R
ILLINOIS ROUTE 53 FAR LEFT, FAR LEFT REVERSE MAST ARM, AND LEFT MAST ARM SIGNALS N/B	←G	←Y	←R	←G	←G	←Y	←R	←R	←R	←R	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
ILLINOIS ROUTE 53 CENTER AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	Y	R	G	G	R	R	R	R	R	R	R	R
HOFF ROAD FAR LEFT AND LEFT MAST ARM SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	←G	Y	R	R	R	R	R	R
HOFF ROAD RIGHT MAST ARM AND NEAR RIGHT SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R
HOFF ROAD (PRE-SIGNAL) ALL SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R
HOFF ROAD (EAST OF TRACKS) FAR LEFT AND LEFT MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	←G	←G	←G	Y	R			R
HOFF ROAD (EAST OF TRACKS) RIGHT MAST ARM SIGNAL E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R

PHASES 2 + 6 SHALL BE PLACED ON RECALL.

FILE NAME = c:\neworking\draw_brouk\transportation\1265\1265-05-Sequence of Operation.dgn



USER NAME = drew_brouk	DESIGNED - MJL	REVISED -
DRAWN - MJL	REVISED -	
PLOT SCALE = 48.0000 ft / in.	CHECKED - JAL	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

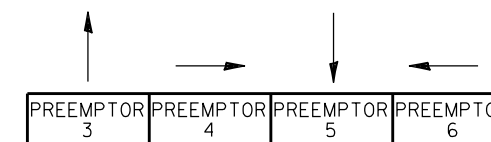
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL SEQUENCE OF OPERATION
IL ROUTE 53 AND HOFF ROAD**

SCALE: NTS SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	73
CONTRACT NO.			62B32	
ILLINOIS FED. AID PROJECT				

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION



CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1		1		5		5		7		7		9		9		9		13		13		15				15		PREEMPTOR 3	PREEMPTOR 4	PREEMPTOR 5	PREEMPTOR 6	CLEAR TO NORMAL SEQUENCE
	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	2	3	4	5					
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3 OR 5	1F	4	1H	2, 3 OR 5	4	2	1M	3, 4 OR 5	1P	2	1R	3 OR 5	1T	4	1V	2, 3 OR 4	5	1Y	1Z	1AA	2, 4 OR 5	3									
ILLINOIS ROUTE 53 FAR LEFT AND LEFT MAST ARM SIGNALS S/B	<u>Y</u>	<u>R</u>	<u>Y</u>	<u>R</u>	<u>G</u>	<u>G</u>	<u>Y</u>	<u>R</u>	<u>G</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	◇	
ILLINOIS ROUTE 53 CENTER LEFT AND CENTER RIGHT MAST ARM AND LEFT NEAR REVERSE MAST ARM SIGNALS S/B	R	R	R	R	R	R	Y	R	G	R	R	R	Y	R	Y	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
ILLINOIS ROUTE 53 RIGHT MAST ARM, FAR RIGHT, RIGHT NEAR REVERSE MAST ARM, AND NEAR RIGHT SIGNALS S/B	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>Y</u>	<u>R</u>	<u>G</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>Y</u>	<u>R</u>	<u>Y</u>	<u>R</u>	<u>G</u>	<u>G</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	◇	
ILLINOIS ROUTE 53 FAR LEFT, FAR LEFT REVERSE MAST ARM, AND LEFT MAST ARM SIGNALS N/B	<u>G</u>	<u>G</u>	<u>Y</u>	<u>R</u>	<u>Y</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>G</u>	<u>Y</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	◇	
ILLINOIS ROUTE 53 CENTER AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS N/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
HOFF ROAD FAR LEFT AND LEFT MAST ARM SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	<u>G</u>	R	R	R	R	R	R	R	R	R	R	R	R	<u>G</u>	◇
HOFF ROAD RIGHT MAST ARM AND NEAR RIGHT SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	G	◇
HOFF ROAD (PRE-SIGNAL) ALL SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	R	R	R	R	R	R	R	R	◇
HOFF ROAD (EAST OF TRACKS) FAR LEFT AND LEFT MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	<u>G</u>	<u>G</u>	Y	R	<u>G</u>	R	<u>G</u>	R	R	R	R	R	R	◇	
HOFF ROAD (EAST OF TRACKS) RIGHT MAST ARM SIGNAL E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	G	R	R	R	R	R	◇	

◇ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4, OR 5 IS TERMINATED.

FILE NAME: c:\ywork\hunting\matthew.libera\transportation\dm12465\0162832-ah-11-16-EVP-Sequence.dgn

RAILROAD PREEMPTION SEQUENCE OF OPERATION

													PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 5		PREEMPTOR NUMBER 6		PREEMPTOR NUMBER 2						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER																											
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER													2		3		4		5								
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1O	1R	1S	1T	1U	1V	2	3	4	5	CLEAR TO NORMAL SEQUENCE		
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	1V	2	3	4	5				
ILLINOIS ROUTE 53 FAR LEFT AND LEFT MAST ARM SIGNALS S/B	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	△		
ILLINOIS ROUTE 53 CENTER LEFT AND CENTER RIGHT MAST ARM AND LEFT NEAR REVERSE MAST ARM SIGNALS S/B	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△		
ILLINOIS ROUTE 53 RIGHT MAST ARM, FAR RIGHT, RIGHT NEAR REVERSE MAST ARM, AND NEAR RIGHT SIGNALS S/B	→R	→R	→Y	→R	→R	→R	→Y	→R	→R	→R	→R	→R	→R	→R	→R	→R	→Y	→R	→R	→R	→R	→R	→R	→R	△		
ILLINOIS ROUTE 53 FAR LEFT, FAR LEFT REVERSE MAST ARM, AND LEFT MAST ARM SIGNALS N/B	←Y	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	△		
ILLINOIS ROUTE 53 CENTER AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS N/B	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	G	△		
HOFF ROAD FAR LEFT AND LEFT MAST ARM SIGNALS W/B	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	△		
HOFF ROAD RIGHT MAST ARM AND NEAR RIGHT SIGNALS W/B	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	△		
HOFF ROAD (PRE-SIGNAL) ALL SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	△		
HOFF ROAD (EAST OF TRACKS) FAR LEFT AND LEFT MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	←G	←G	R	R	←G	←G	R	R	R	R	←G	Y	R	R	△		
HOFF ROAD (EAST OF TRACKS) RIGHT MAST ARM SIGNAL E/B	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	R	R	R	R	G	Y	R	R	△		

HOLD

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD INTERVAL 5 IS TERMINATED.

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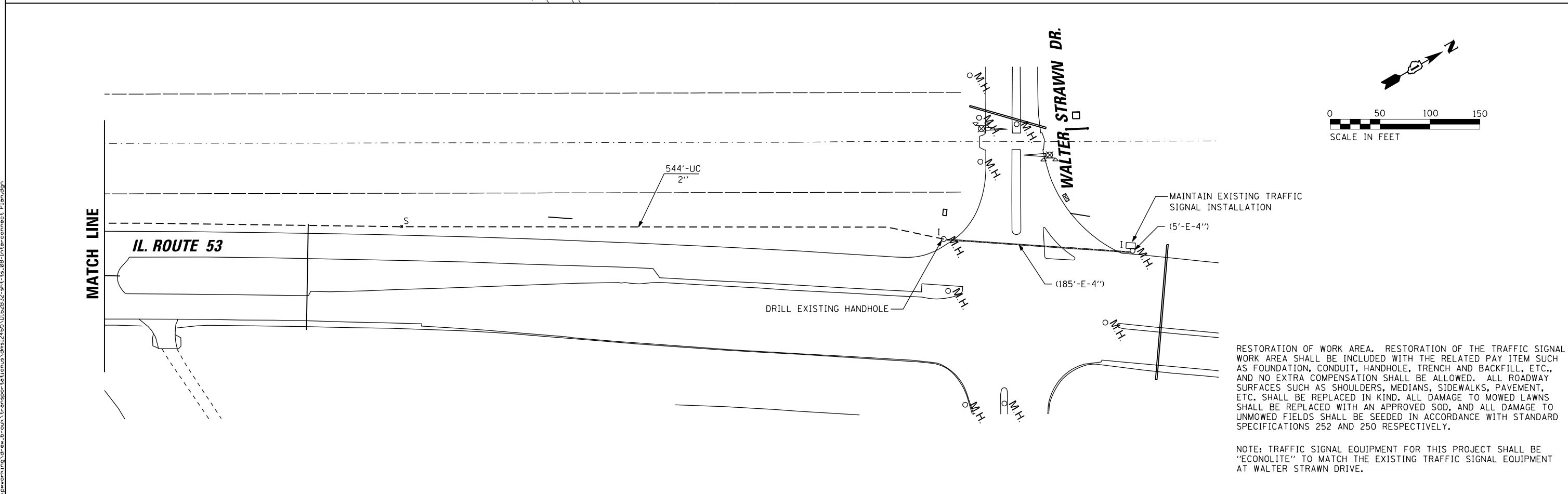
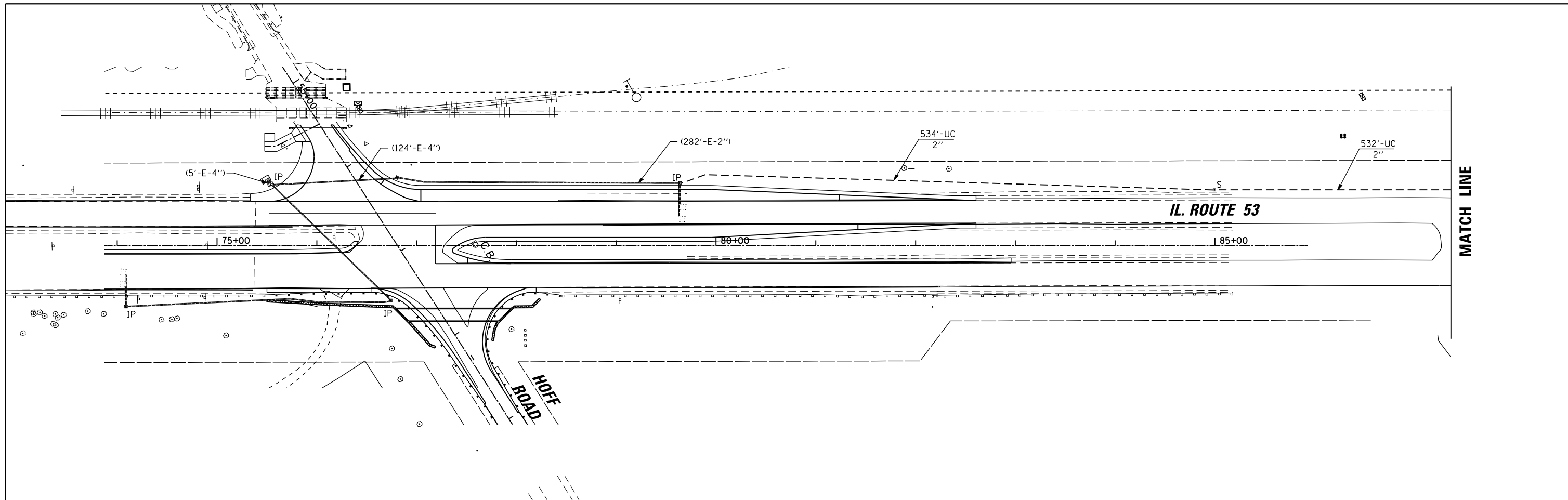
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	DRAWN - MJL	REVISED -
PLOT SCALE = 40.0000 ft / in.	CHECKED - JAL	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAILROAD PREEMPTION SEQUENCE OF OPERATION
ILLINOIS ROUTE 53 AND HOFF ROAD**

SCALE: NTS SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	75
CONTRACT NO.			62B32	
ILLINOIS FED. AID PROJECT				



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

NOTE: TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING TRAFFIC SIGNAL EQUIPMENT AT WALTER STRAWN DRIVE.



USER NAME = drew.brouk	DESIGNED - MJL	REVISED -
	DRAWN - MJL	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - ZGJ	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

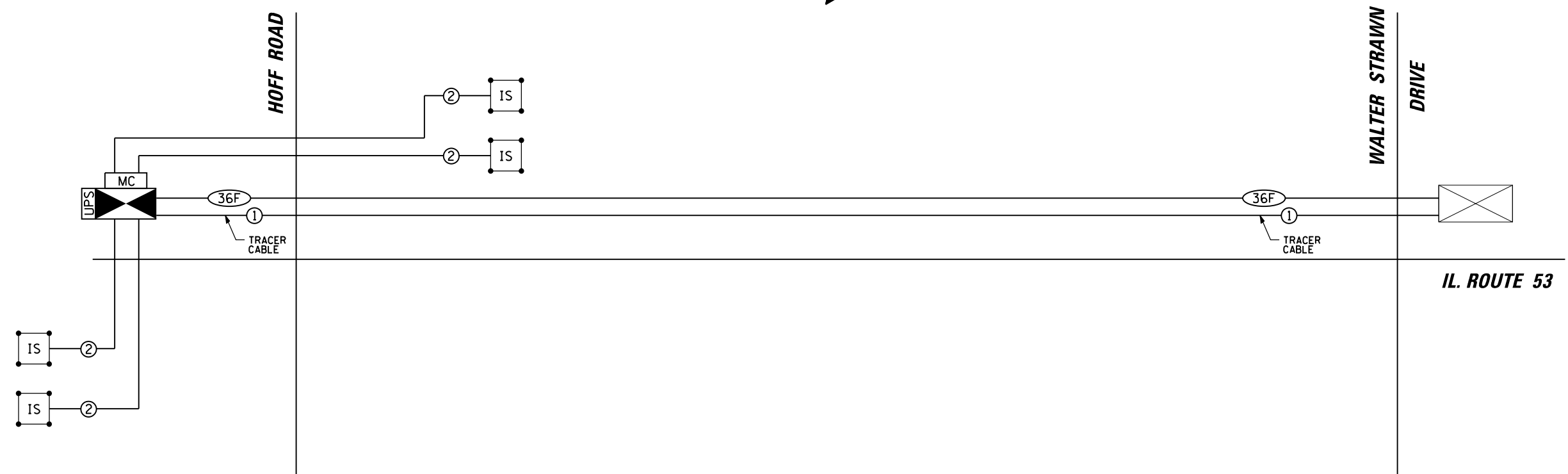
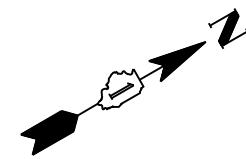
**INTERCONNECT PLAN
IL ROUTE 53, HOFF ROAD TO WALTER STRAWN DRIVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	76
CONTRACT NO. 62B32				

SCALE: 1" = 50' SHEET 8 OF 9 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

FILE NAME = c:\ywork\hwy\drw\brb\transport\connect\plan\dgn



SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,610
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,279
DRILL EXISTING HANDHOLE	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,305
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

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

NOTE: TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING TRAFFIC SIGNAL EQUIPMENT AT WALTER STRAWN DRIVE.

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USER NAME = drew.brouk	DESIGNED - MJL	REVISED -
	DRAWN - MJL	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - ZGJ	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC
IL ROUTE 53, HOFF ROAD TO WALTER STRAWN DRIVE**

SCALE: NTS SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	77
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PERFORMED QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PERFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PERFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT							
DETECTOR LOOP, TYPE I				RADIO REPEATER							
PERFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

FILE NAME: c:\pwworking\draw\res_brouk\transportation\dm12465\062832-sht-1.dwg



USER NAME = drew_brouk	DESIGNED - DAG/BCK	REVISED - DAG 1-1-14
PLOT SCALE = 40.0000 ft / in.	DRAWN - BCK	REVISED -
PLOT DATE = 3/21/2016	CHECKED - DAD	REVISED -
	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

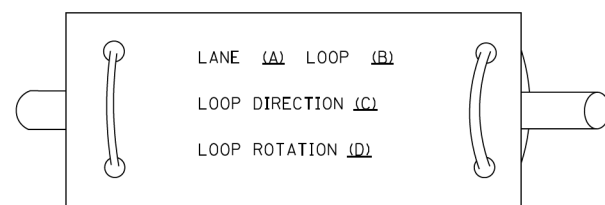
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 78
TS-05			CONTRACT NO. 62B32	
SCALE: NONE SHEET 1 OF 7 SHEETS STA. N/A TO STA. N/A				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

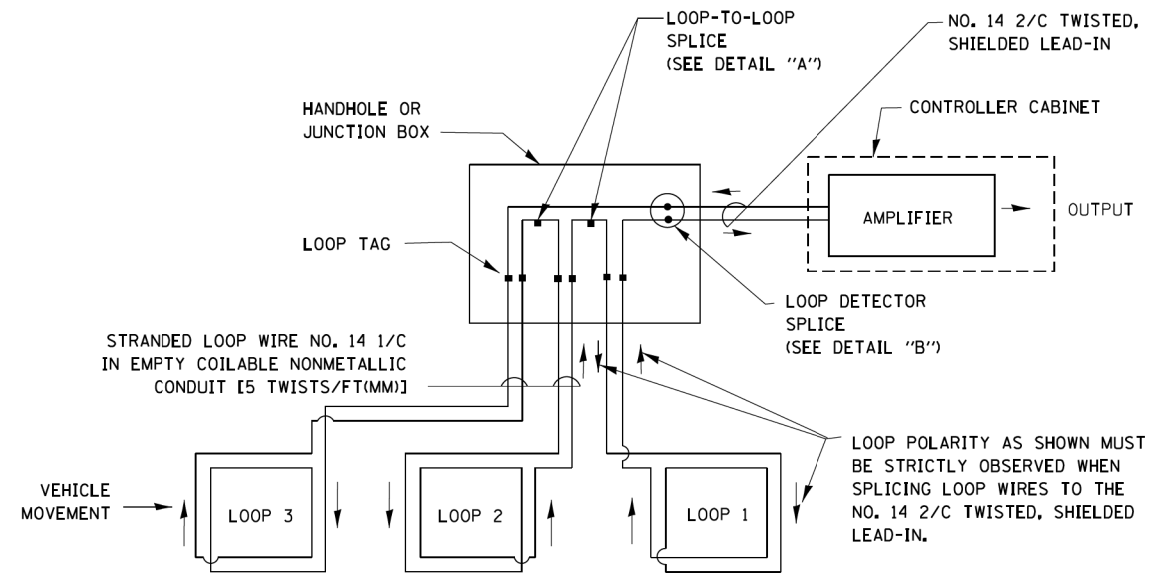
LOOP DETECTOR NOTES

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

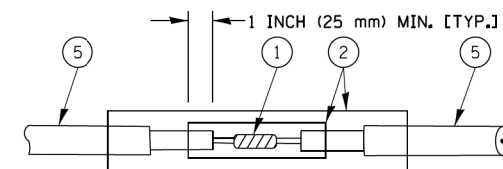


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

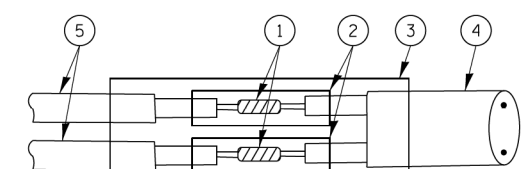


DETECTOR LOOP WIRING SCHEMATIC

- 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.

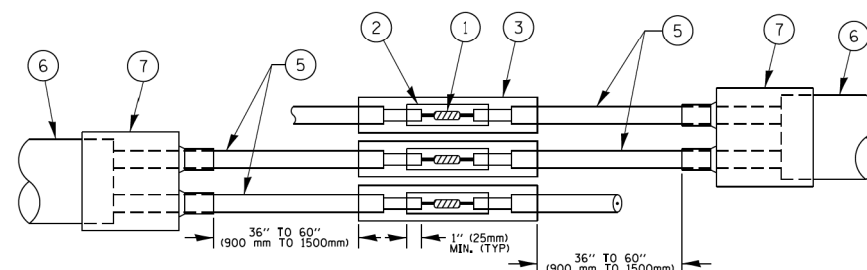


DETAIL "A"
LOOP-TO-LOOP SPLICE

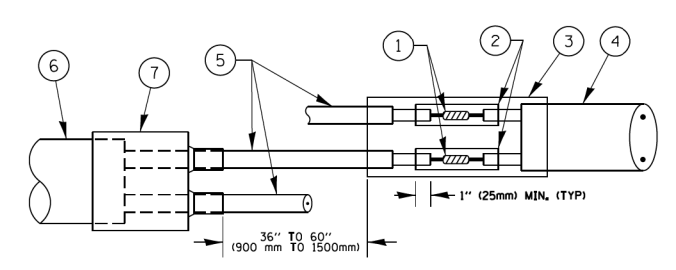


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED 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 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME: c:\pwworking\drawings\transportation\dm1265\0162832-111-df-01.dwg



USER NAME = drew.brouk	DESIGNED - DAD	REVISED - DAG 1-1-14
	DRAWN - BCK	REVISED -
PLOT SCALE = 48.0000 Ft / in.	CHECKED - DAD	REVISED -
PLOT DATE = 3/21/2016	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

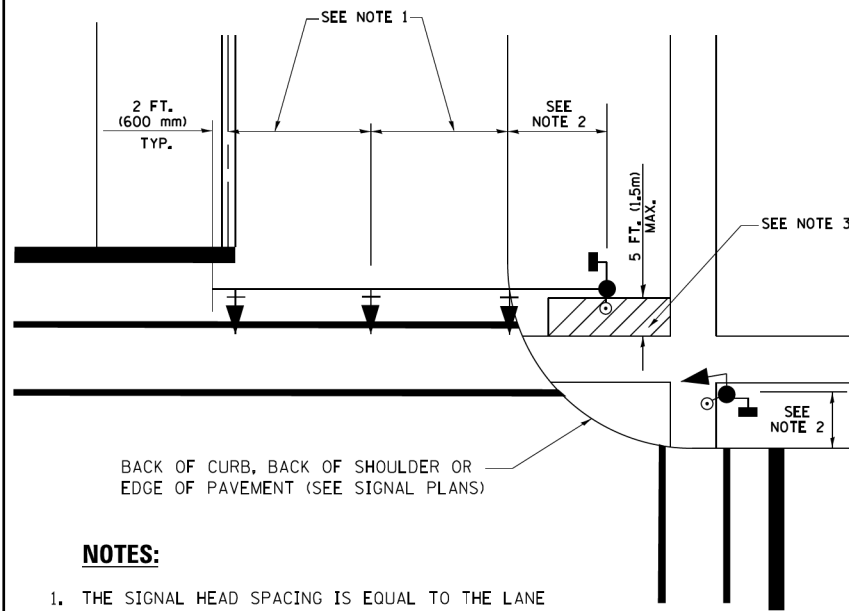
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	79
TS-05			CONTRACT NO. 62B32	

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

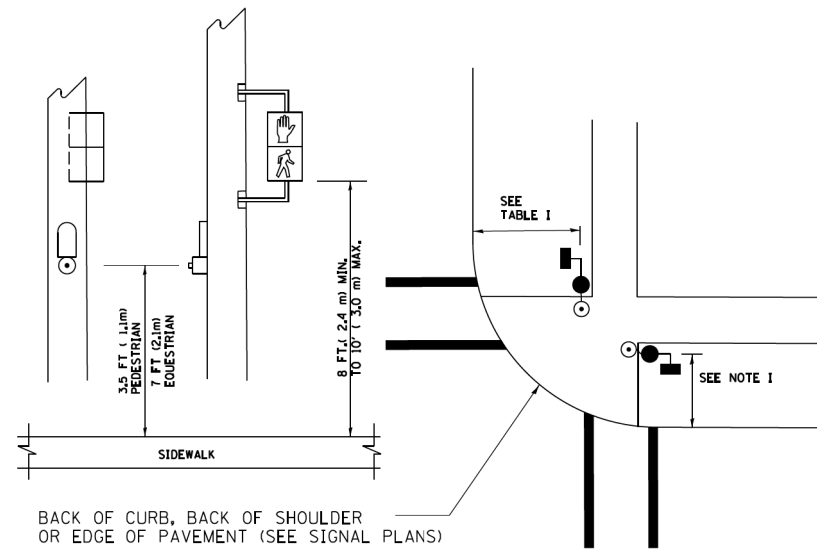
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

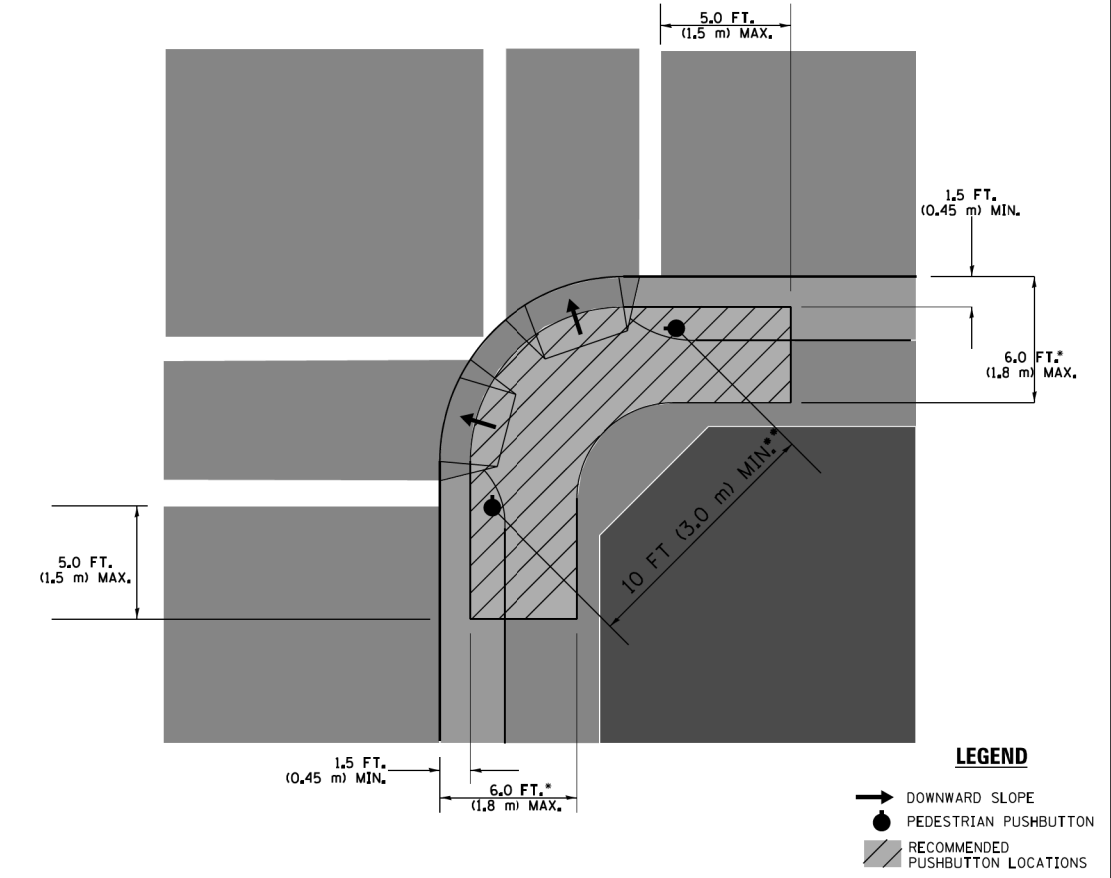
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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



- 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.

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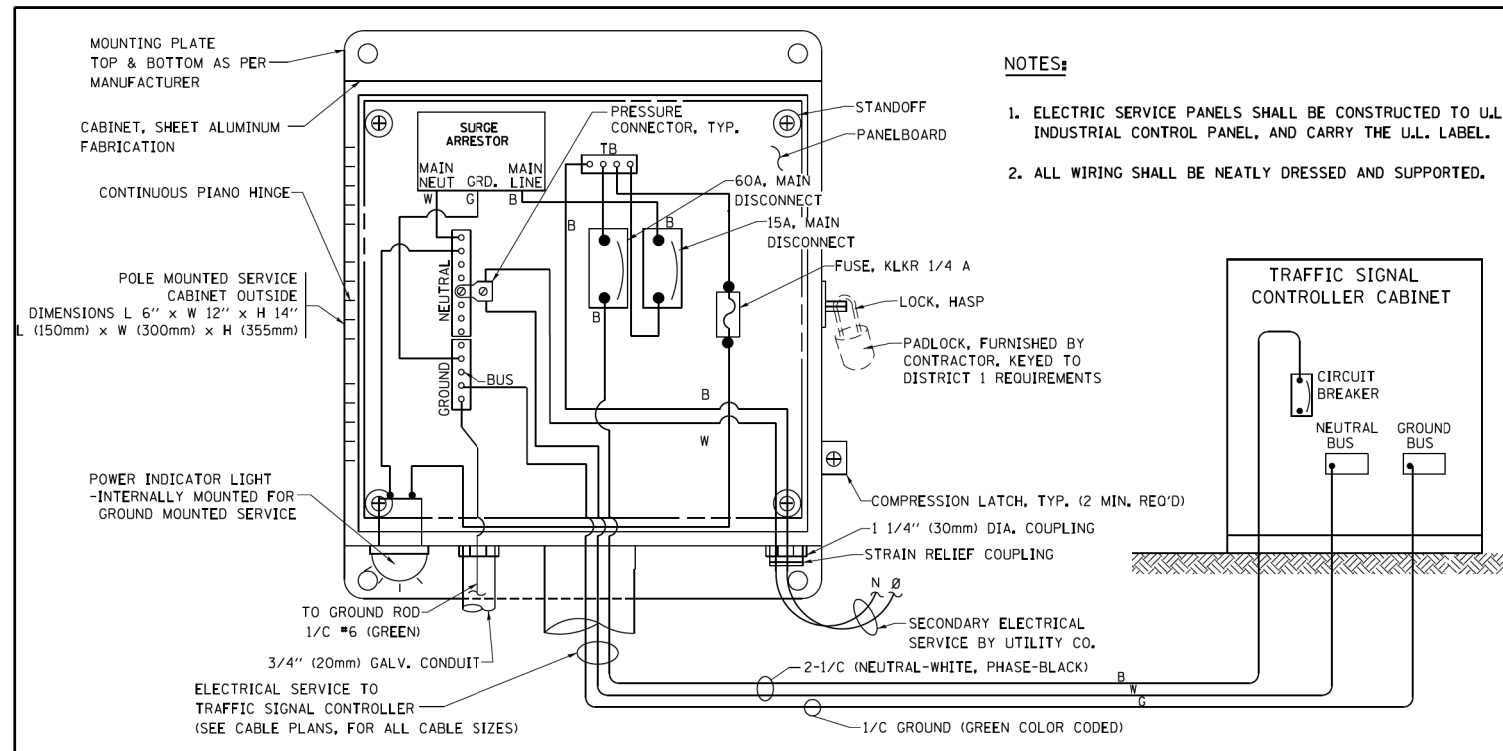
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	DRAWN - BCK	REVISED -
PLOT SCALE = 40.0000 ft / in.	CHECKED - DAD	REVISED -
PLOT DATE = 3/21/2016	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

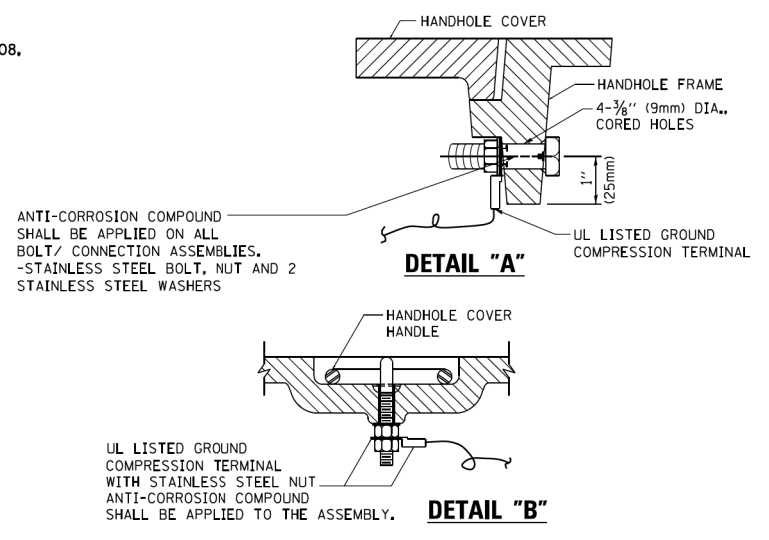
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 80
TS-05		CONTRACT NO. 62B32		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

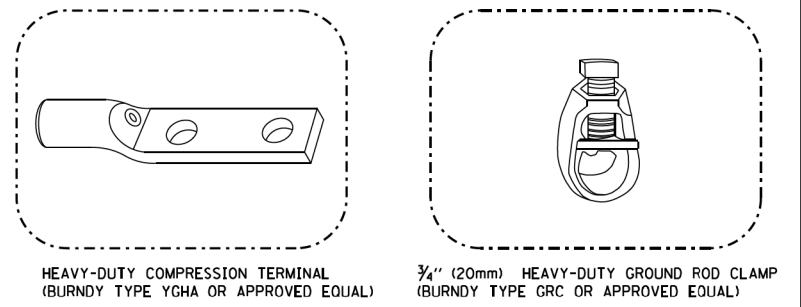
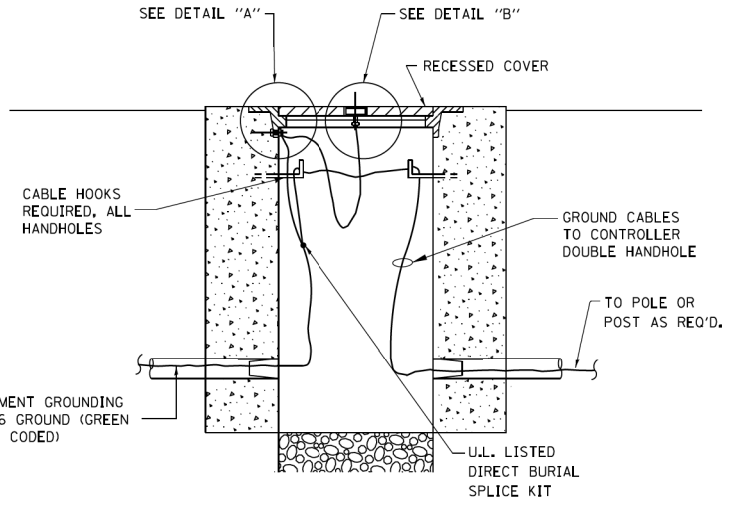


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



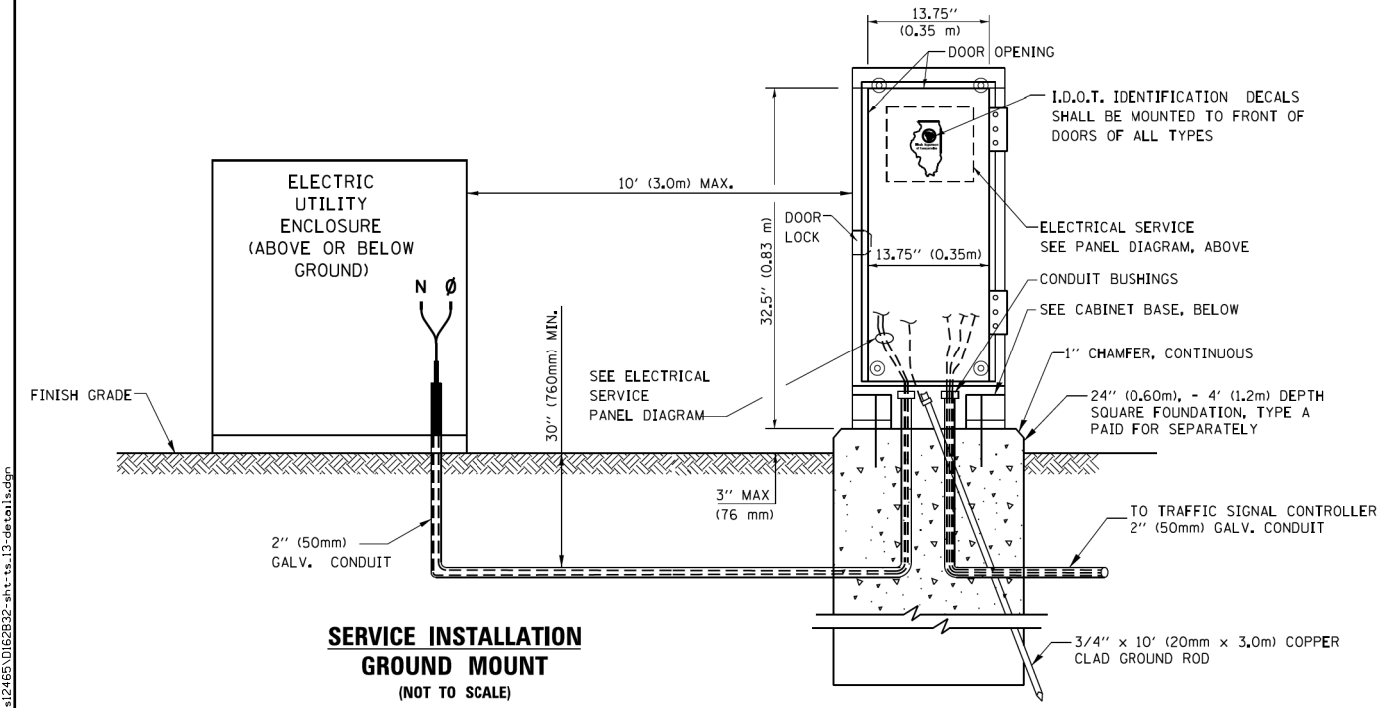
NOTES:
GROUNDING SYSTEM

- 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.

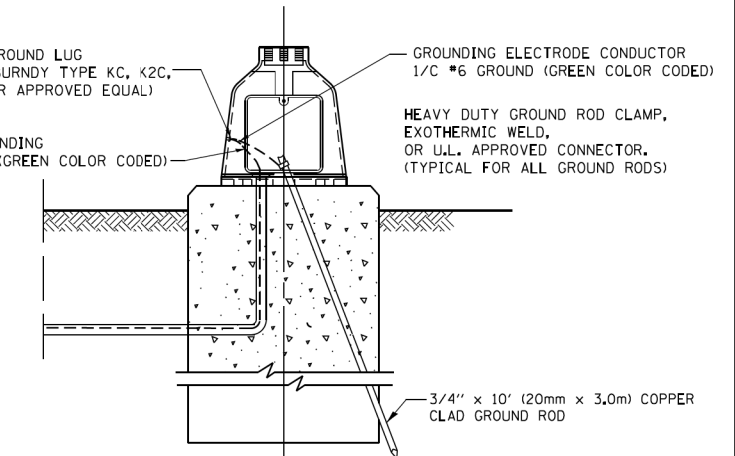
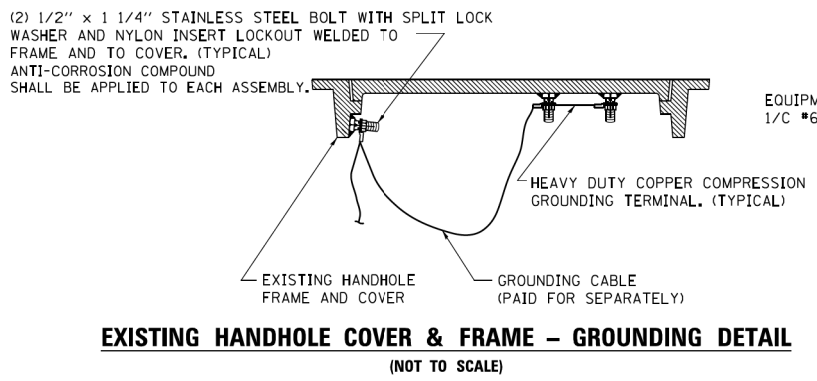


NOTES:

- 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.

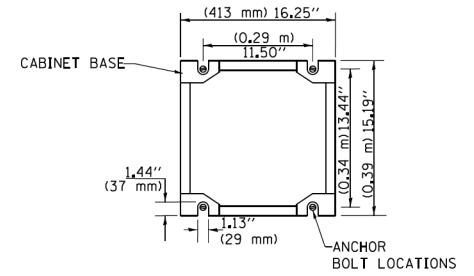


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

CABINET – BASE BOLT PATTERN (NOT TO SCALE)

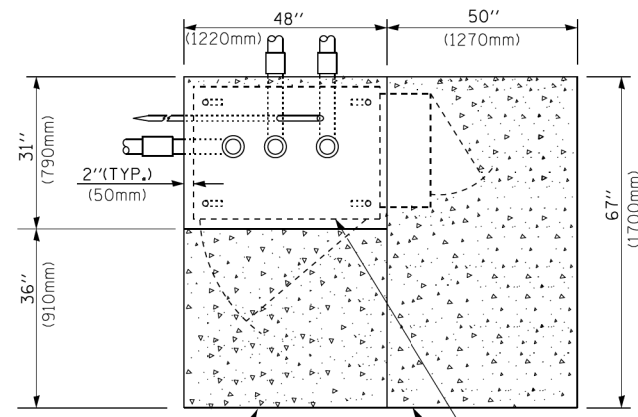


USER NAME = drew.brouk	DESIGNED - DAD	REVISED - DAG 1-1-14
PLOT SCALE = 40.0000 ft / in.	DRAWN - BCK	REVISED -
PLOT DATE = 3/21/2016	CHECKED - DAD	REVISED -
	DATE - 10-28-09	REVISED -

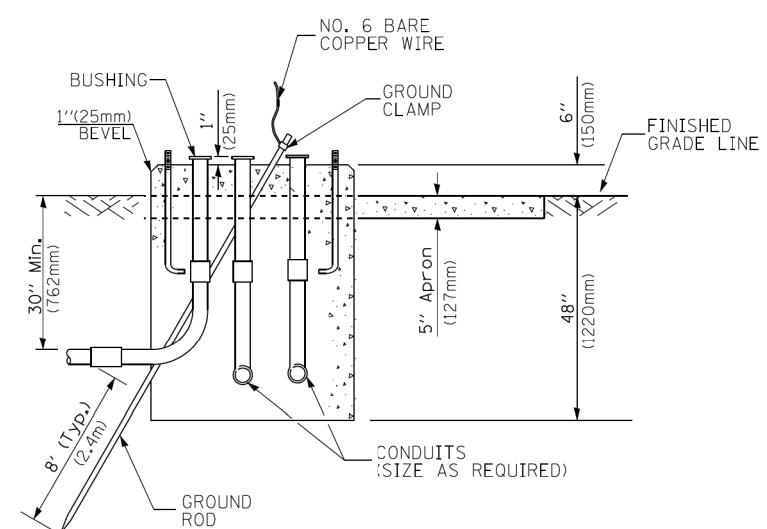
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 4 OF 7 SHEETS	STA. N/A	TO STA. N/A

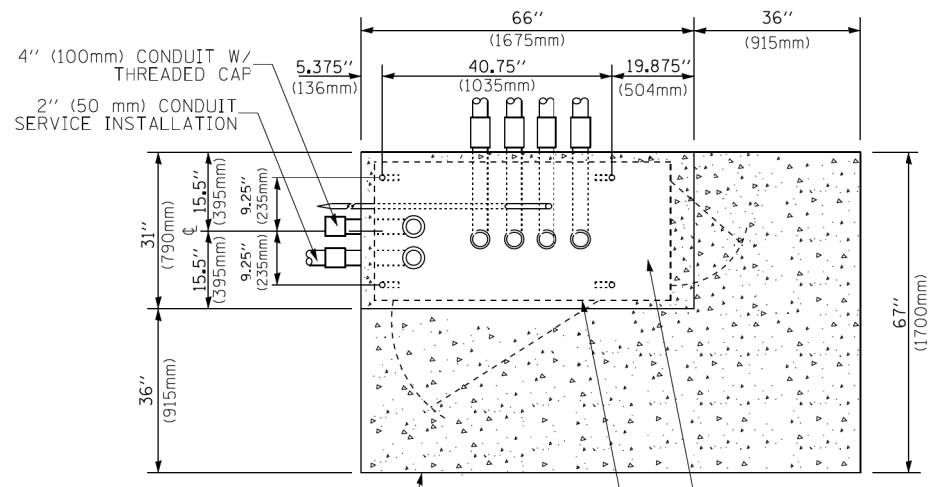
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TS-05		CONTRACT NO. 62B32		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TOP VIEW

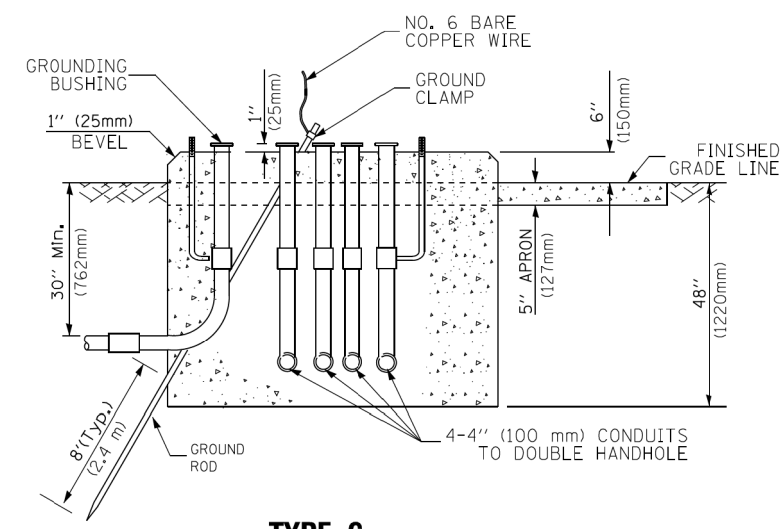


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

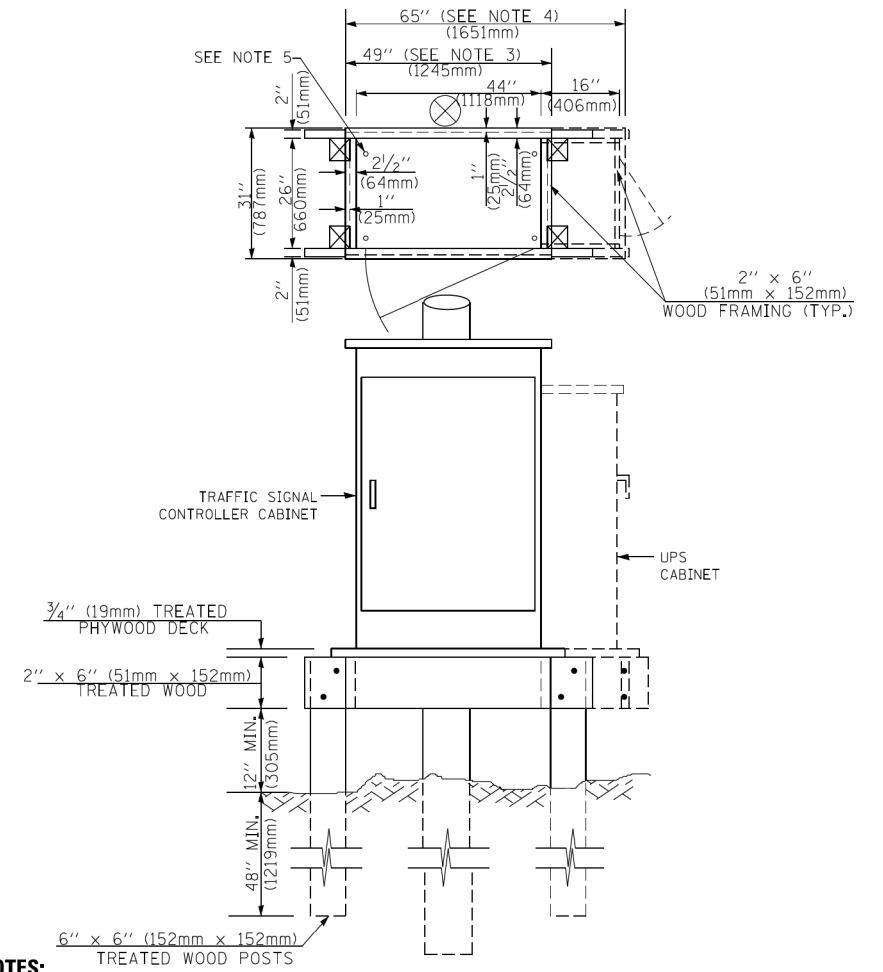


TOP VIEW

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 55' (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)	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

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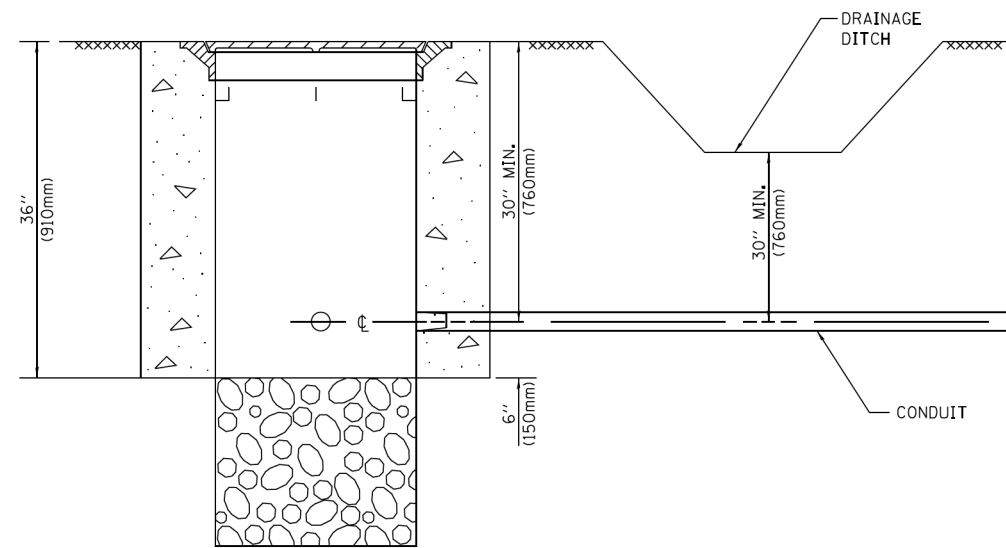
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PLOT SCALE = 48.0000 ft / in.	DRAWN - BCK	REVISED -
PLOT DATE = 3/21/2016	CHECKED - DAD	REVISED -
	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	82
TS-05		CONTRACT NO. 62B32		

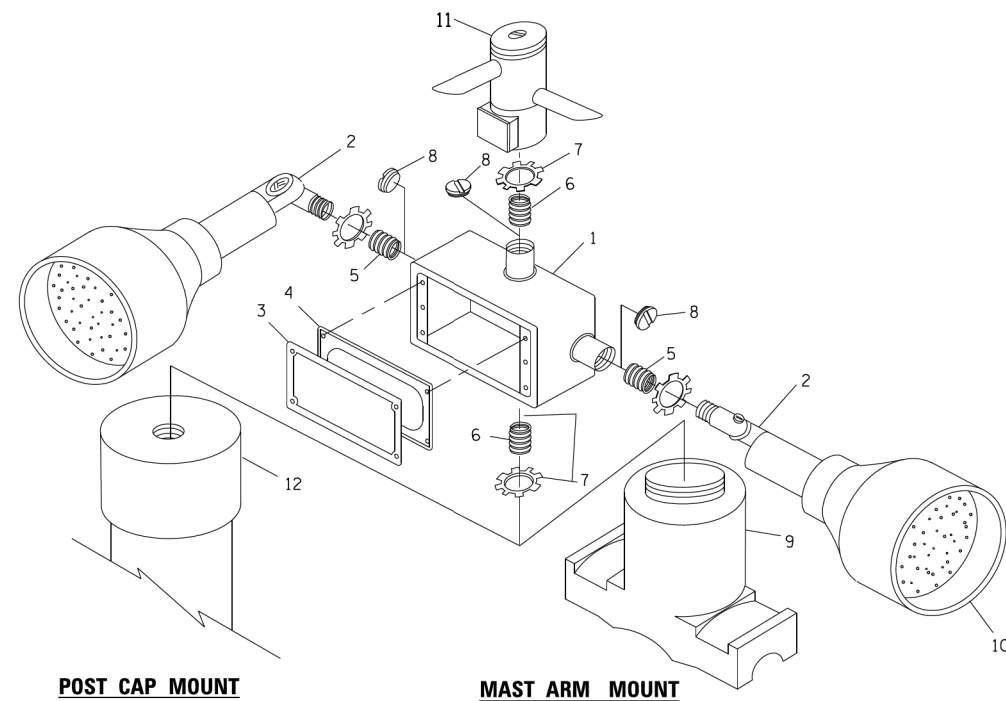
SCALE: NONE SHEET 5 OF 7 SHEETS STA. N/A TO STA. N/A FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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.

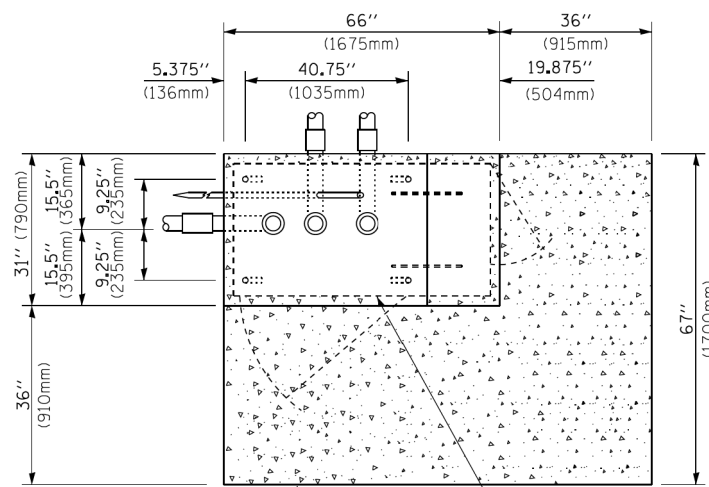
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



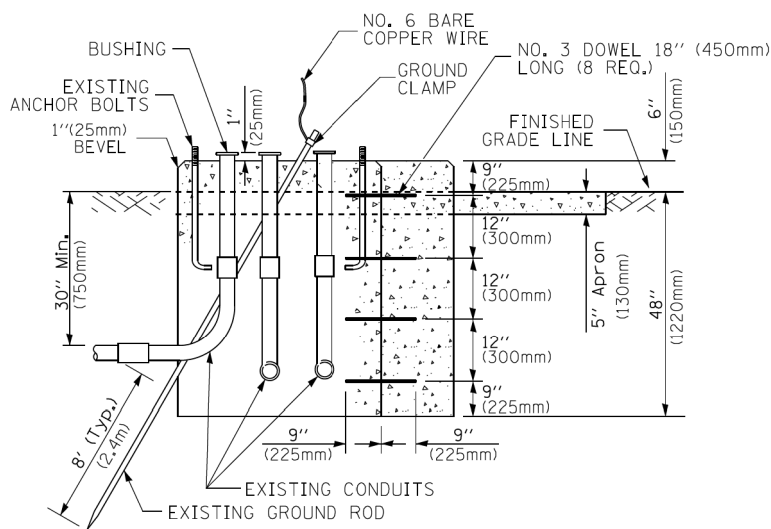
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

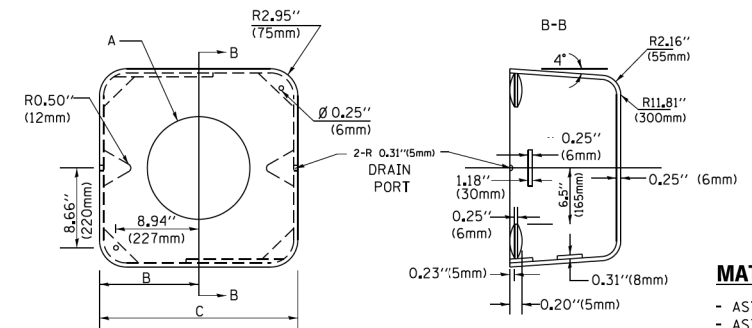


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. 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)

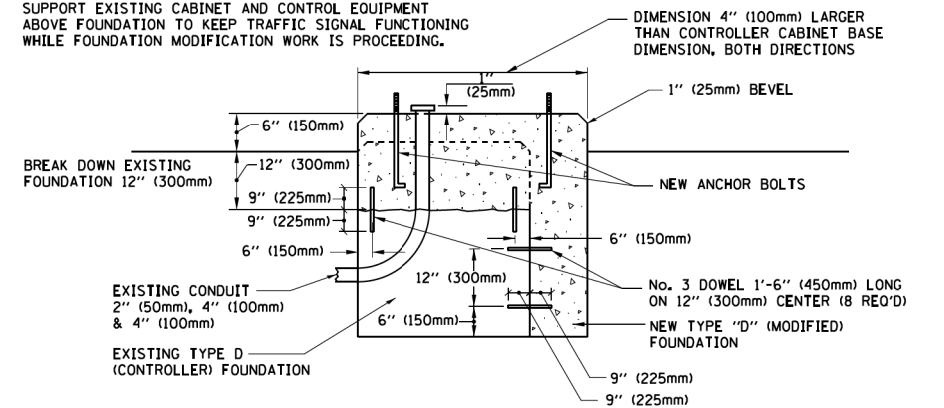
SHROUD

NOTES:

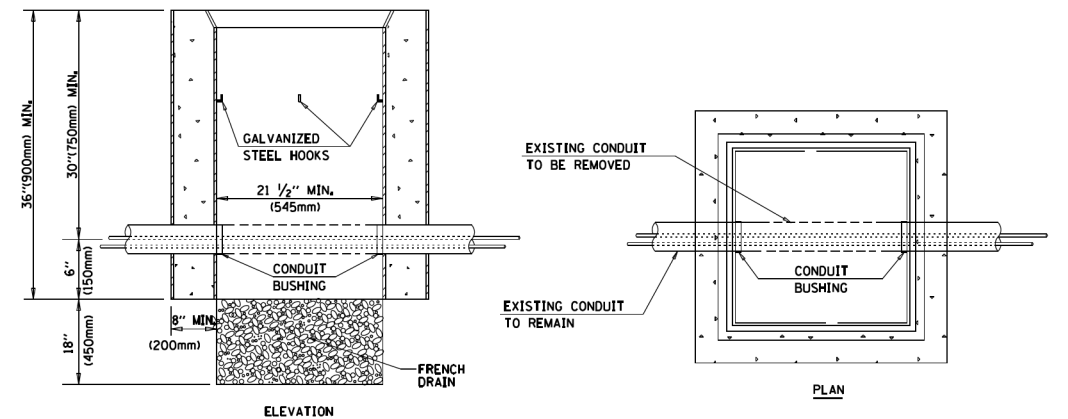
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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

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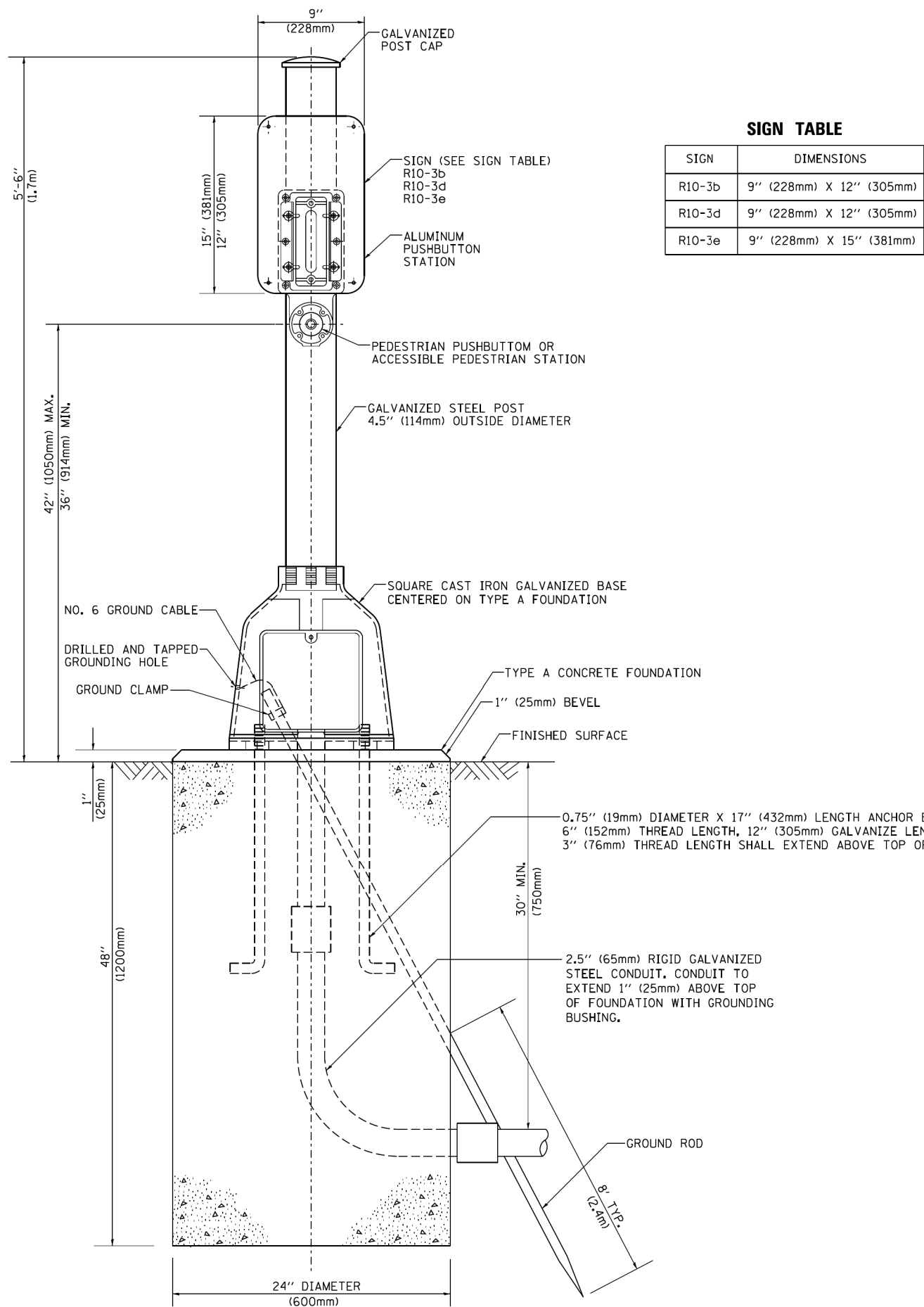
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PLOT DATE = 3/21/2016	CHECKED - DAD	REVISED -
	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

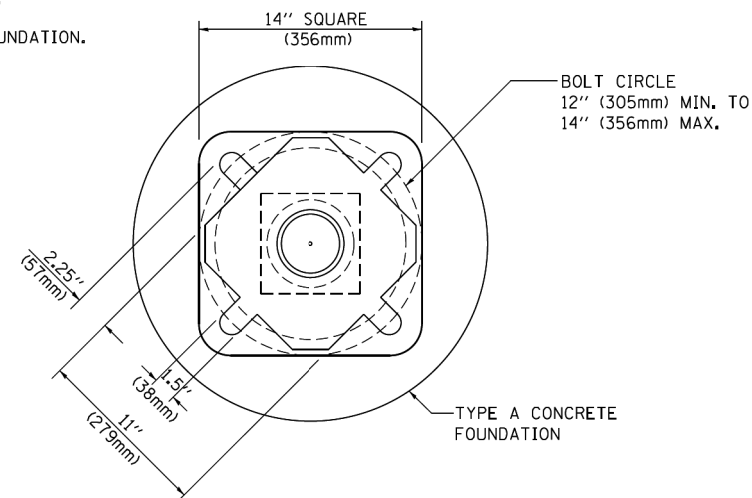
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	83
	TS-05			
		CONTRACT NO.	62B32	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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USER NAME = draw_brouk	DESIGNED - DAG	REVISED - DAG 1-1-14
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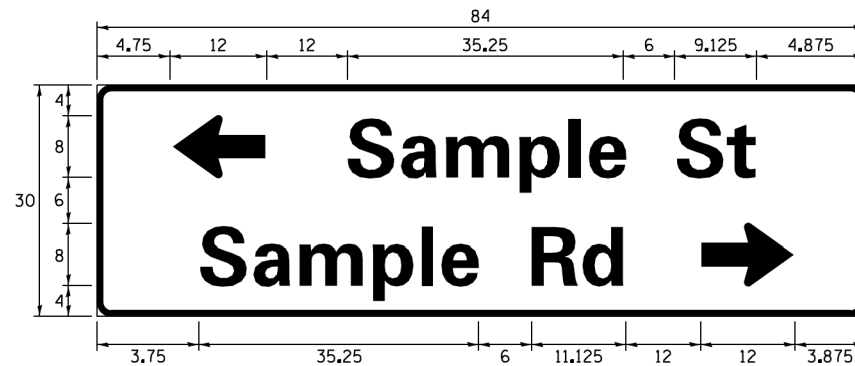
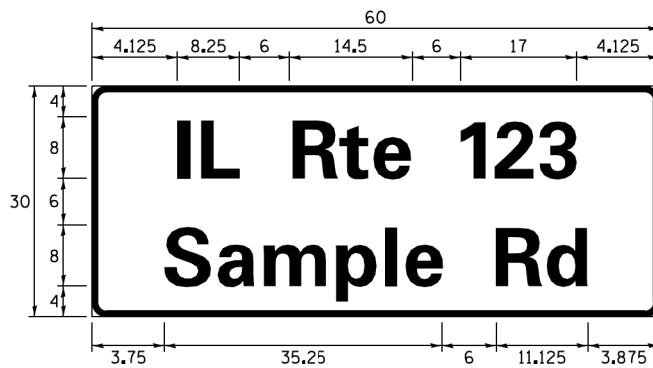
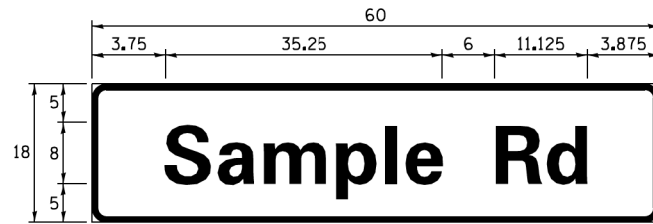
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 7 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	84
TS-05		CONTRACT NO. 62B32		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



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

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	Cir	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

GENERAL NOTES

- 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 THERE IS SPACE AVAILABLE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

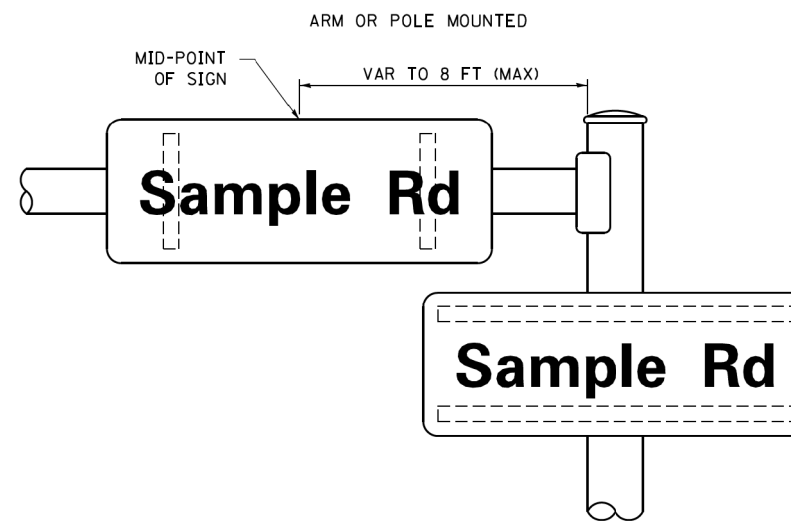
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

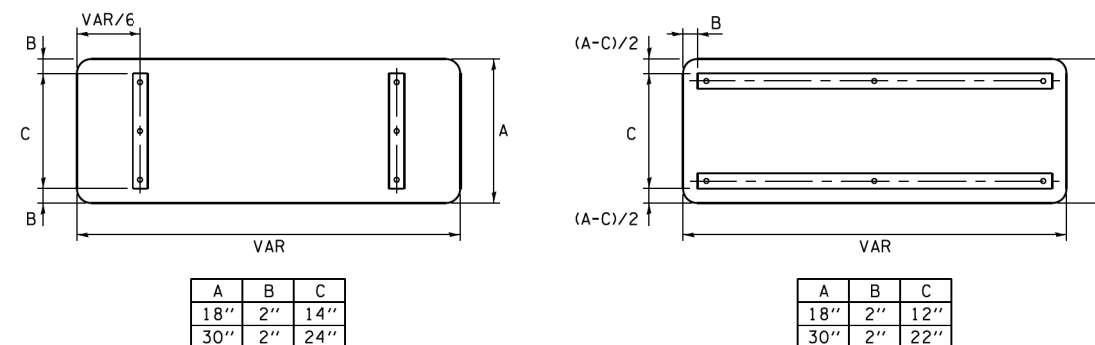
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

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

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

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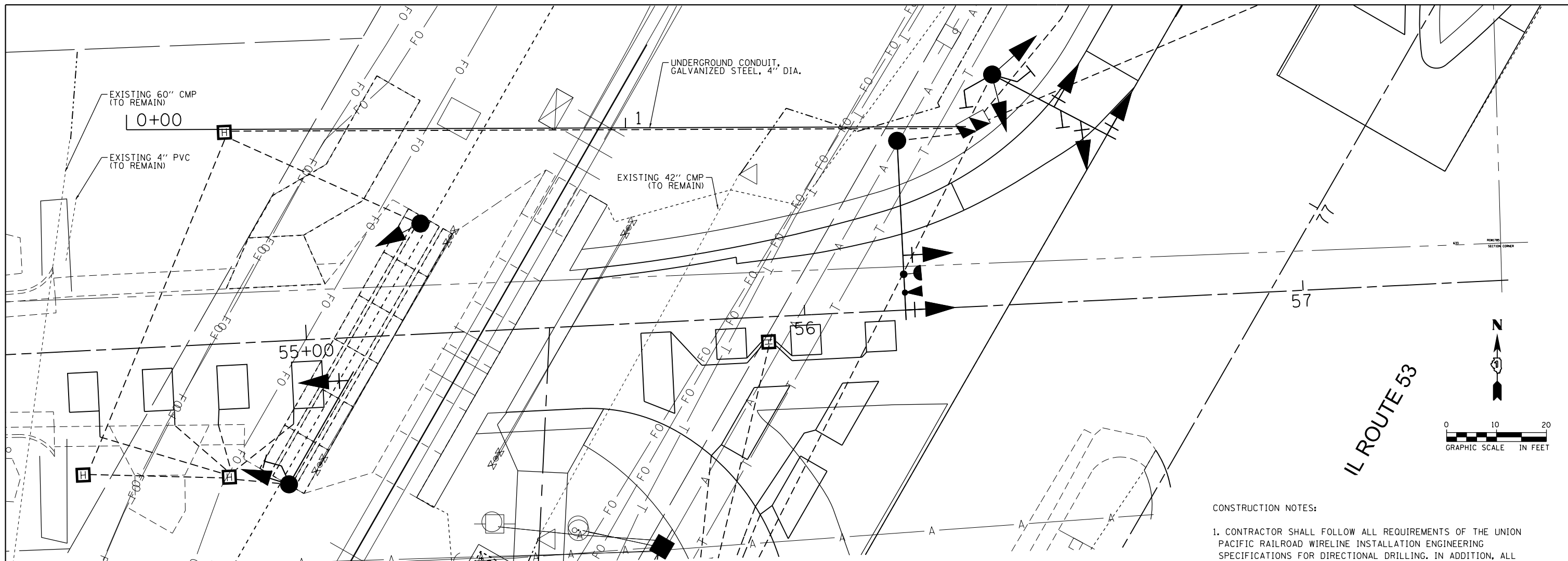
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PLOT DATE = 3/21/2016	DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

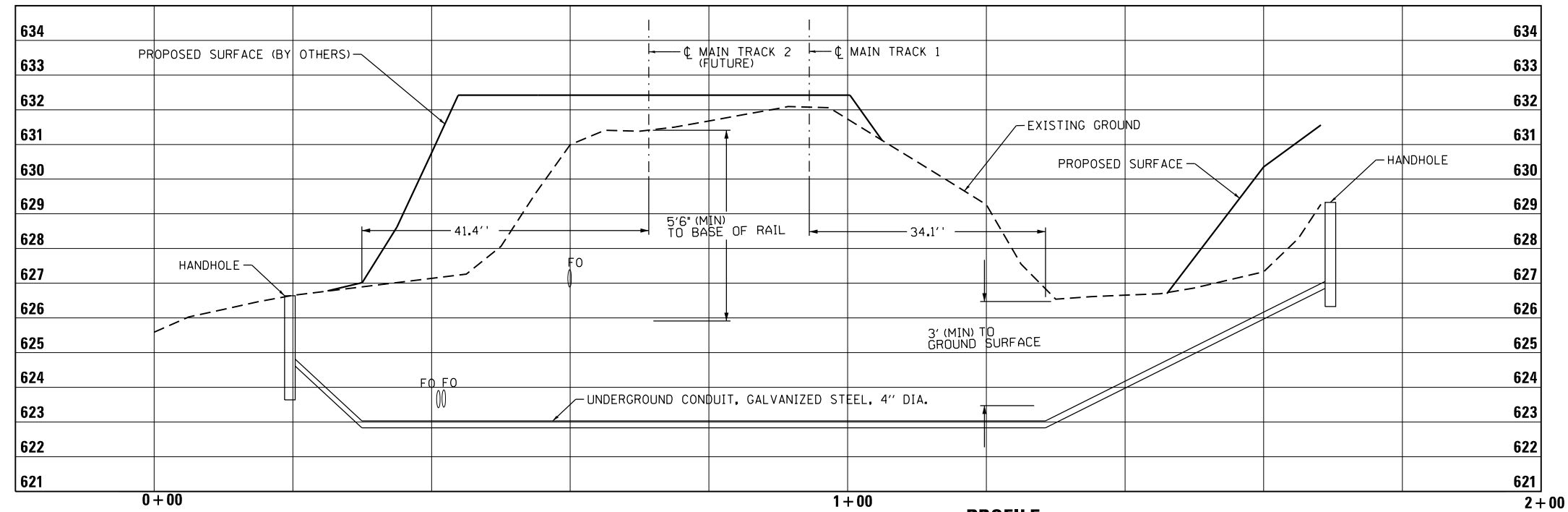
F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 85
TS-02		CONTRACT NO. 62B32		
ILLINOIS FED. AID PROJECT				



PLAN
1" = 10'

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE UNION PACIFIC RAILROAD WIRELINE INSTALLATION ENGINEERING SPECIFICATIONS FOR DIRECTIONAL DRILLING. IN ADDITION, ALL OTHER APPLICABLE UNION PACIFIC RAILROAD REQUIREMENTS SHALL BE MET.
2. REFER TO THE UNION PACIFIC GENERAL NOTES ON THE CONTRACT GENERAL NOTES SHEET FOR INFORMATION REGARDING WORK ON AND NEAR UNION PACIFIC RAILROAD RIGHT OF WAY.
3. RAILROAD COORDINATION SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS.
5. REFER TO THE UNION PACIFIC GENERAL NOTES ON THE CONTRACT GENERAL NOTES SHEET FOR CONTACT INFORMATION REGARDING THE LOCATION OF FIBER OPTIC CABLES WITHIN THE UNION PACIFIC RIGHT OF WAY.
6. RESTORATION OF DISTURBED AREAS SHALL BE INCLUDED IN THE PAY ITEM UNDERGROUND CONDUIT, GALVANIZED STEEL, (SIZE SPECIFIED). DISTURBED AREAS SHALL BE RETURNED TO EXISTING GRADE. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250, RESPECTIVELY.



PROFILE

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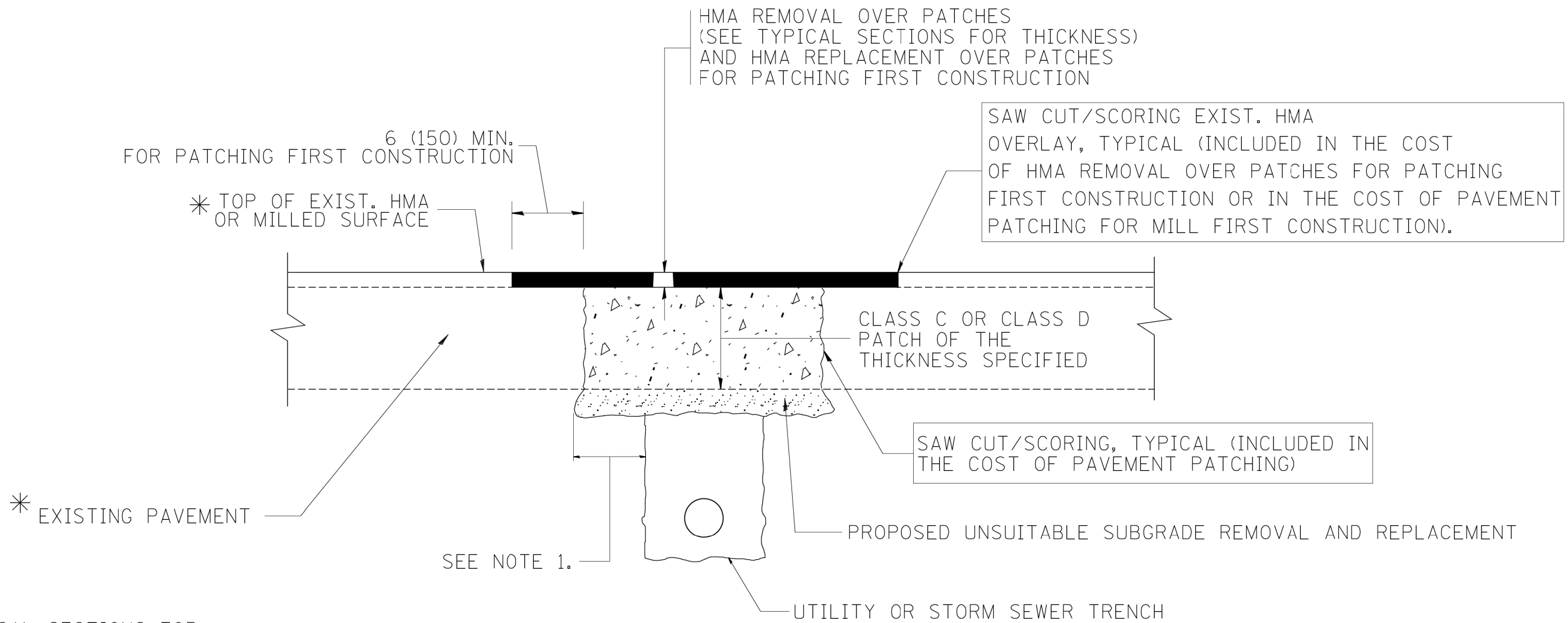
USER NAME - Theresa.Schluter	DESIGNED - MTL	REVISED -
DRAWN - MTL	REVISED -	
CHECKED - MJL	REVISED -	
DATE - 03/21/2016	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONDUIT INSTALLATION UNDER RAILROAD TRACKS DETAIL

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

F.A.P. RTE. 846	SECTION DIHSRR2016-01	COUNTY WILL	TOTAL SHEETS 146	SHEET NO. 86
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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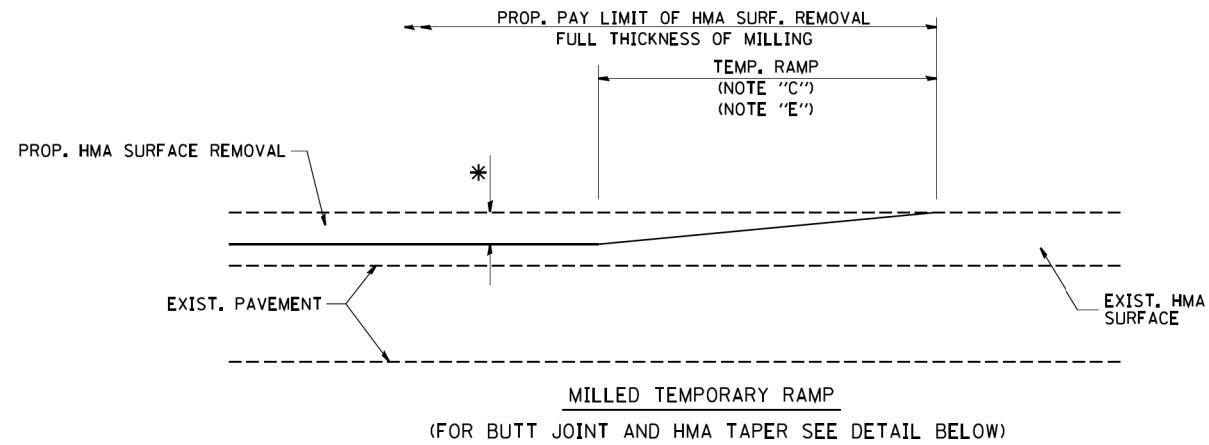
USER NAME = drew.brouk	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 3/21/2016	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

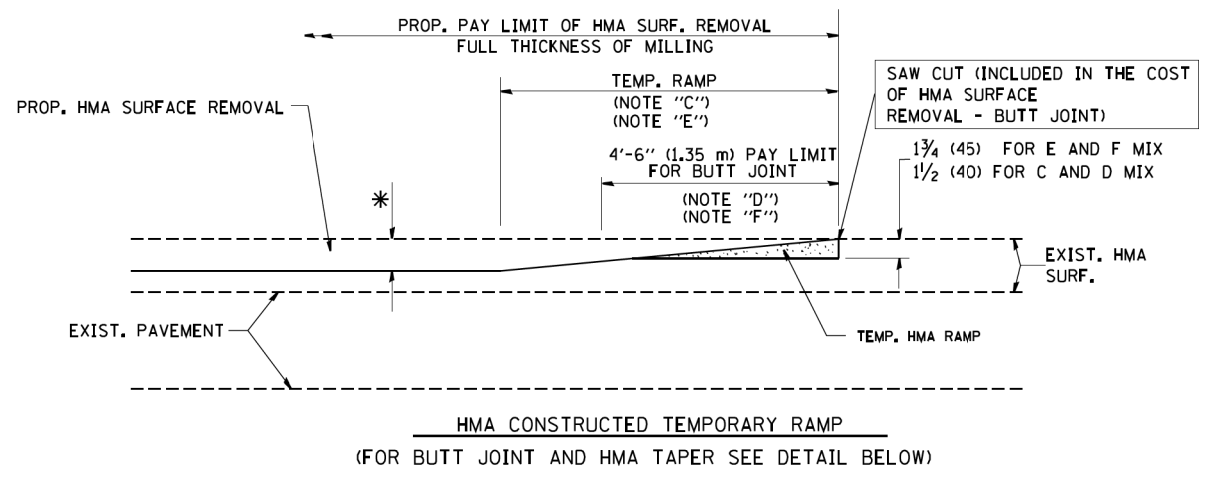
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

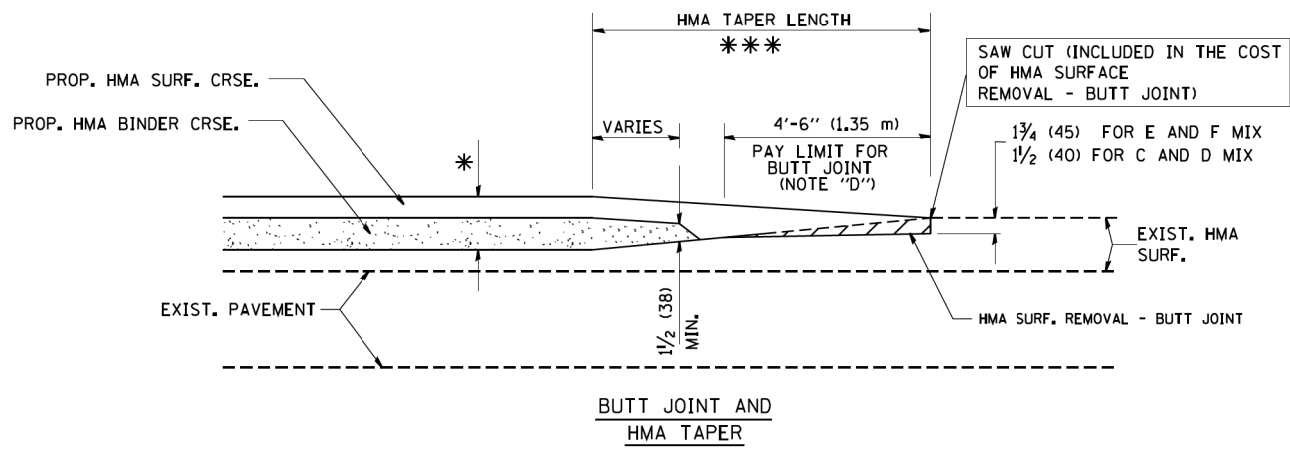
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	87
BD400-04 (BD-22)		CONTRACT NO. 62B32		
ILLINOIS FED. AID PROJECT				



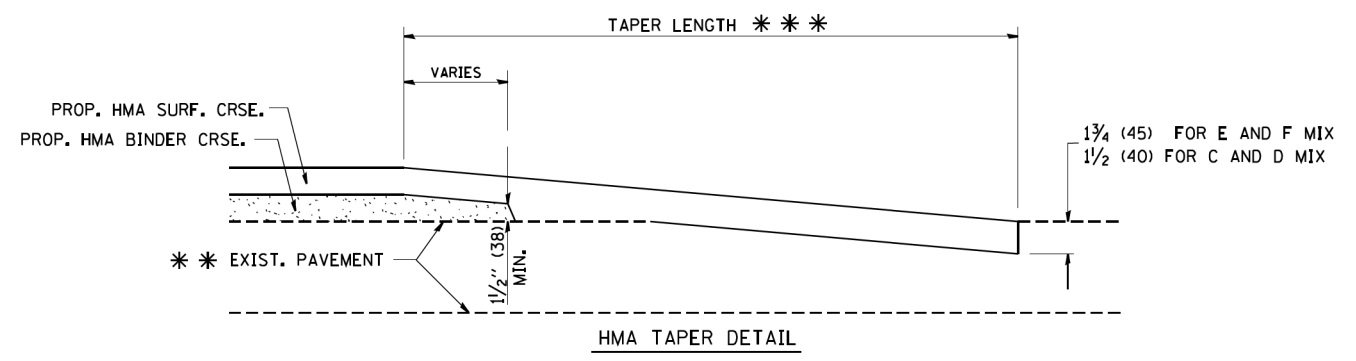
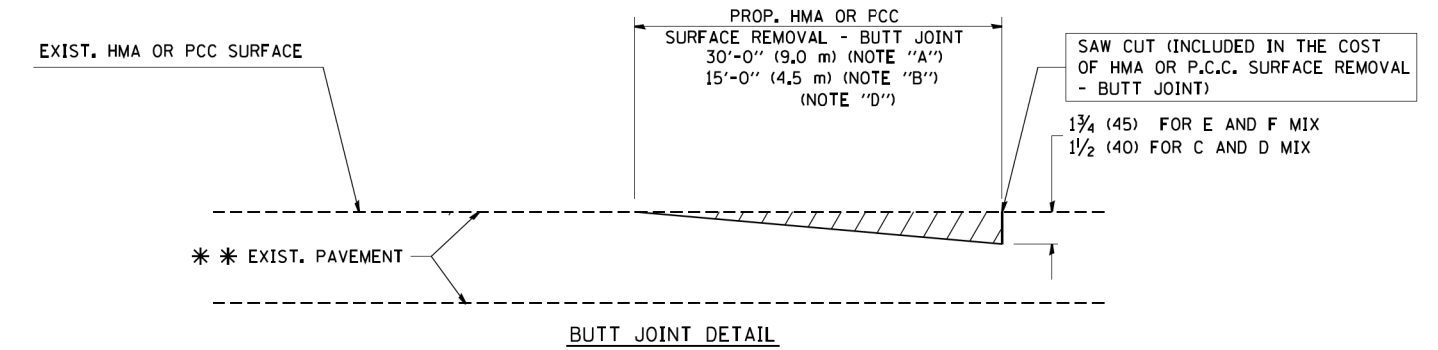
OPTION 1



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

- 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.

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	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 3/21/2016	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	88
BD400-05 (BD-32)		CONTRACT NO. 62B32		
ILLINOIS FED. AID PROJECT				

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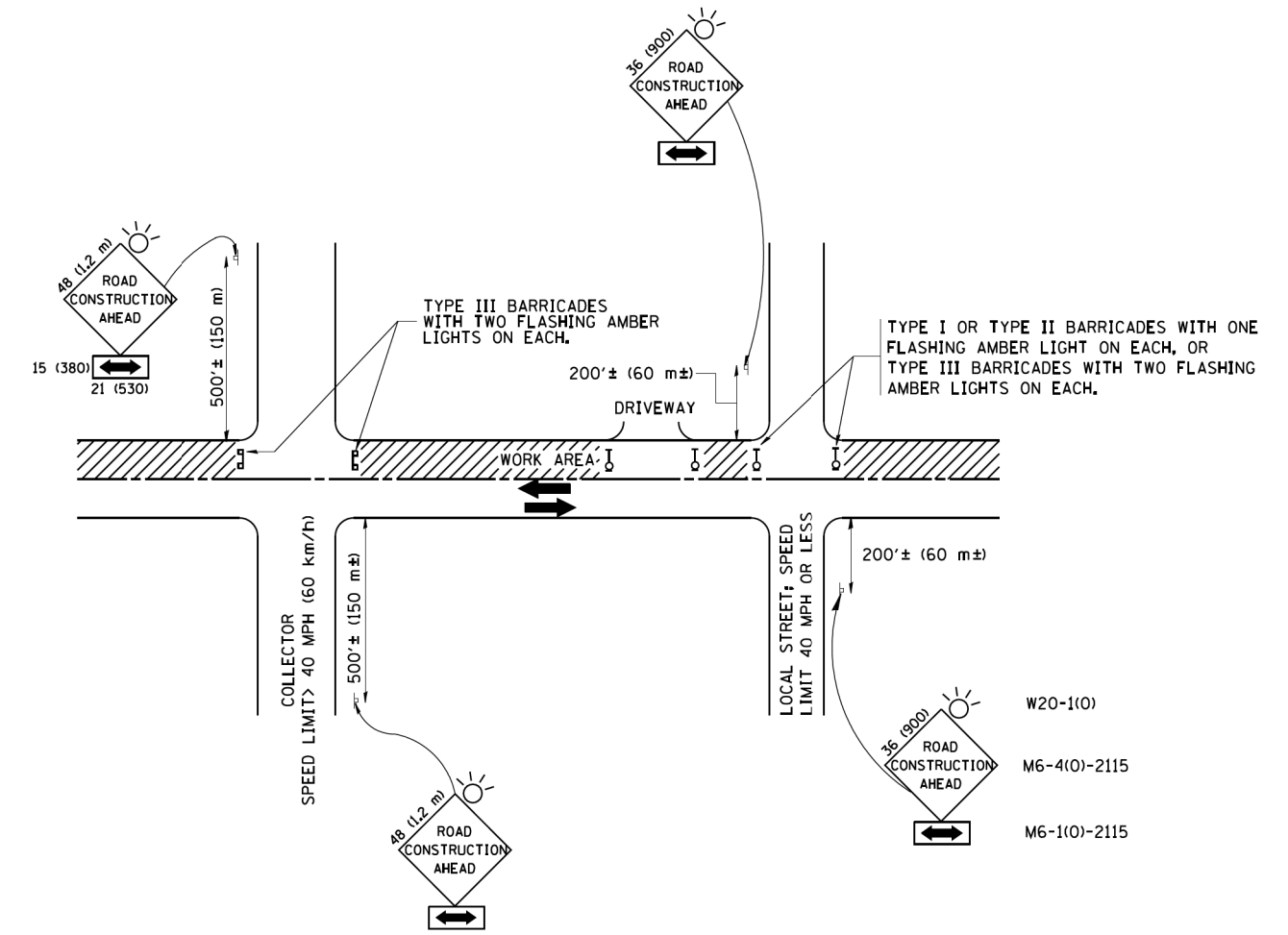


USER NAME = drew_brouk	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
	DRAWN -	REVISED - A. HOUSEH 03-06-96
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
PLOT DATE = 3/21/2016	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. N/A	TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	89
TC-10			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				



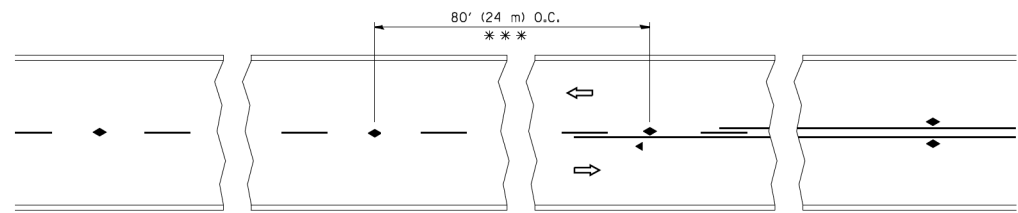
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. 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:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) 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.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) 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.
 - b) 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.
 3. 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).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

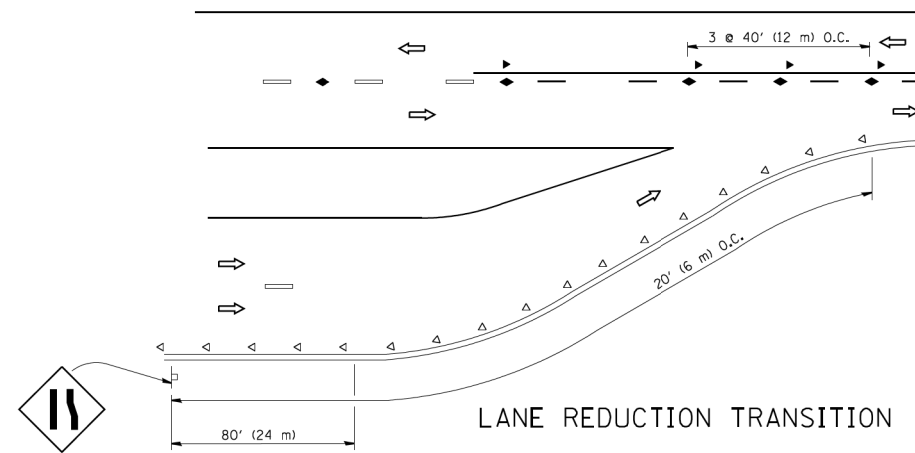
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

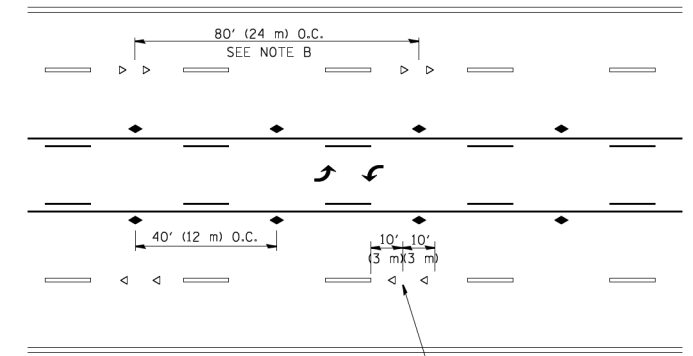


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

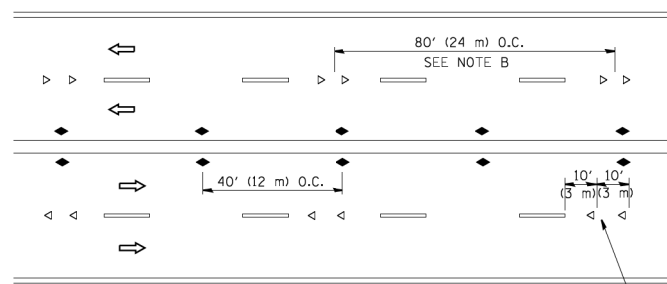
TWO-LANE/TWO-WAY



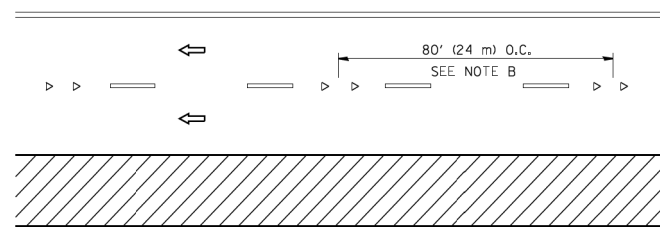
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

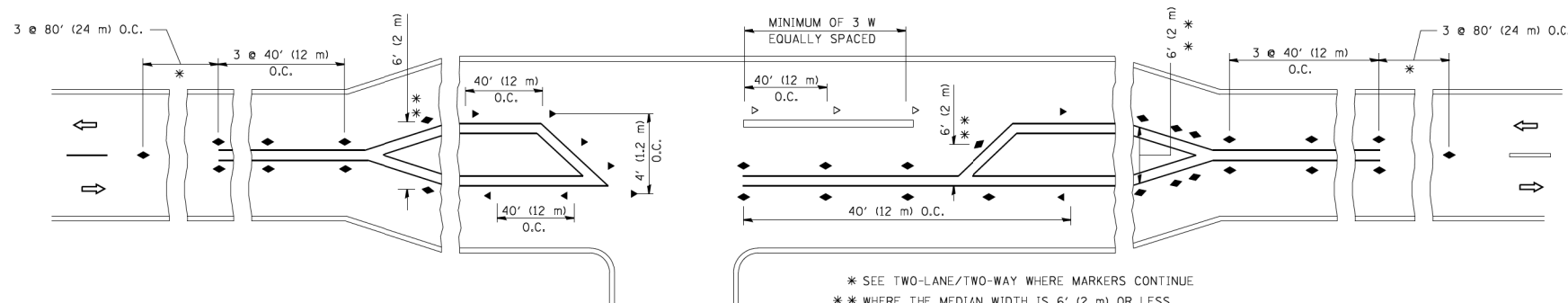
- YELLOW STRIPE
- WHITE STRIPE
- ◄ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



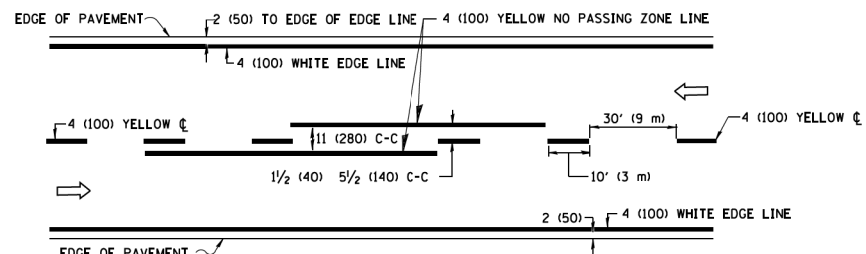
LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

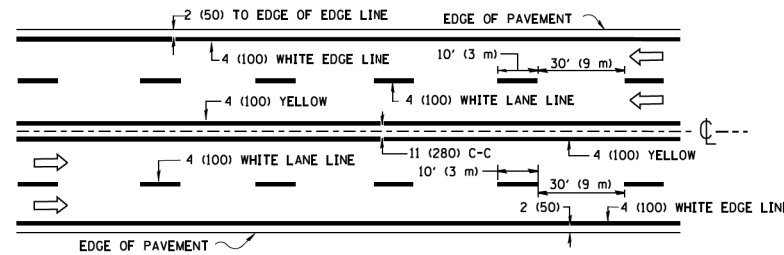
All dimensions are in inches (millimeters) unless otherwise shown.

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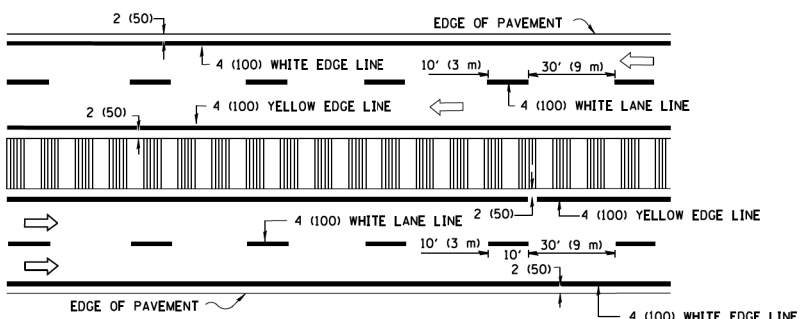
AECOM	USER NAME = drew.bruck	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1" / 100.0000'	DRAWN -	REVISED - T. RAMMACHER 03-12-99					846	DIHSRR2016-01	WILL	146	90
	PLOT DATE = 3/21/2016	CHECKED -	REVISED - T. RAMMACHER 01-06-00					TC-11		CONTRACT NO. 62B32		ILLINOIS FED. AID PROJECT
				SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. N/A	TO STA. N/A					



2-LANE ROADWAY

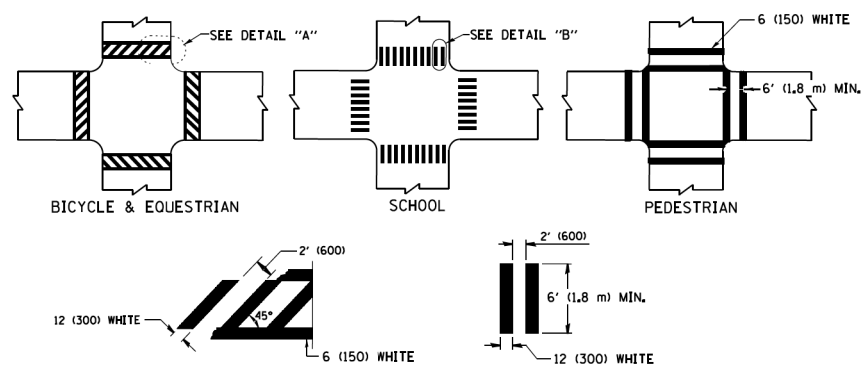


MULTI-LANE UNDIVIDED



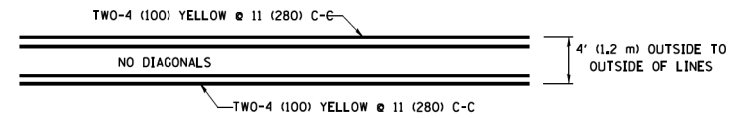
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

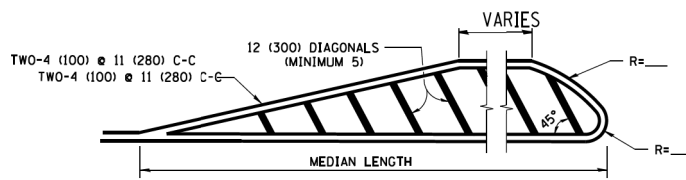


TYPICAL CROSSWALK MARKING

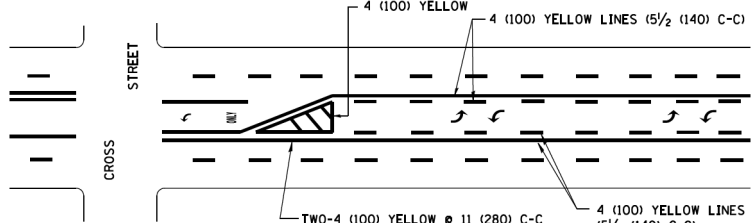
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



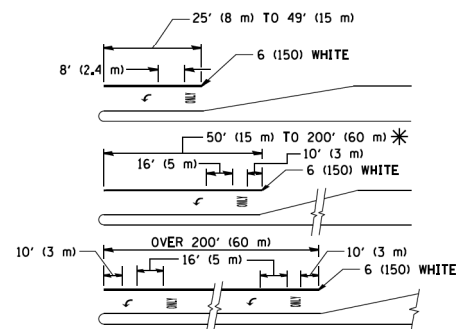
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



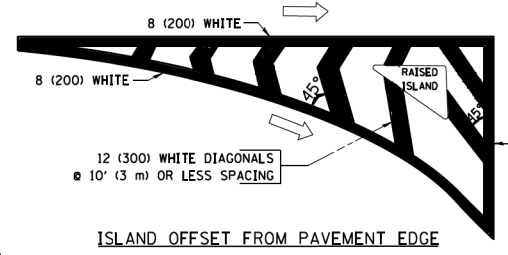
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



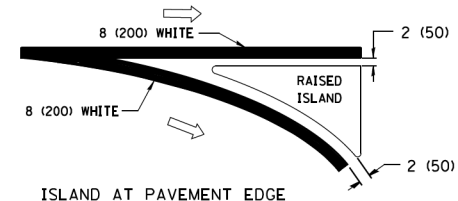
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING

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)

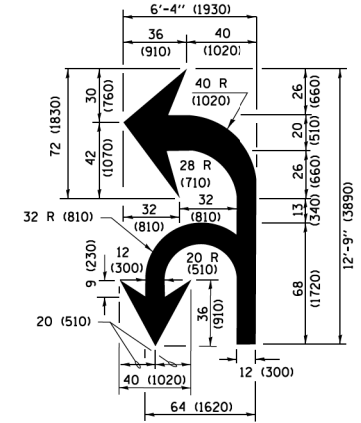
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



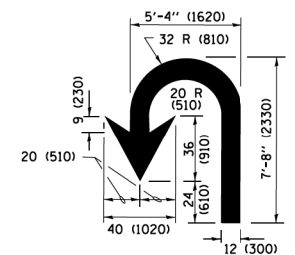
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (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; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO 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" 15 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' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

FILE NAME: c:\nework\h\g\dr\res_brouk\transportation\mkt\62B32\sh1-dp-01.tbl.dwg



USER NAME = drew.brouk	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED - C. JUCTUS 09-09-09
PLOT DATE = 3/21/2016	CHECKED -	REVISED - C. JUCTUS 07-01-13
	DATE - 03-19-90	REVISED - C. JUCTUS 12-21-15

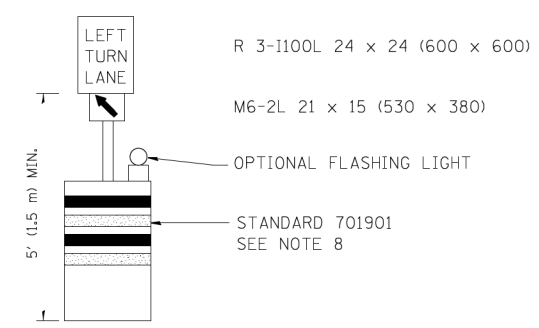
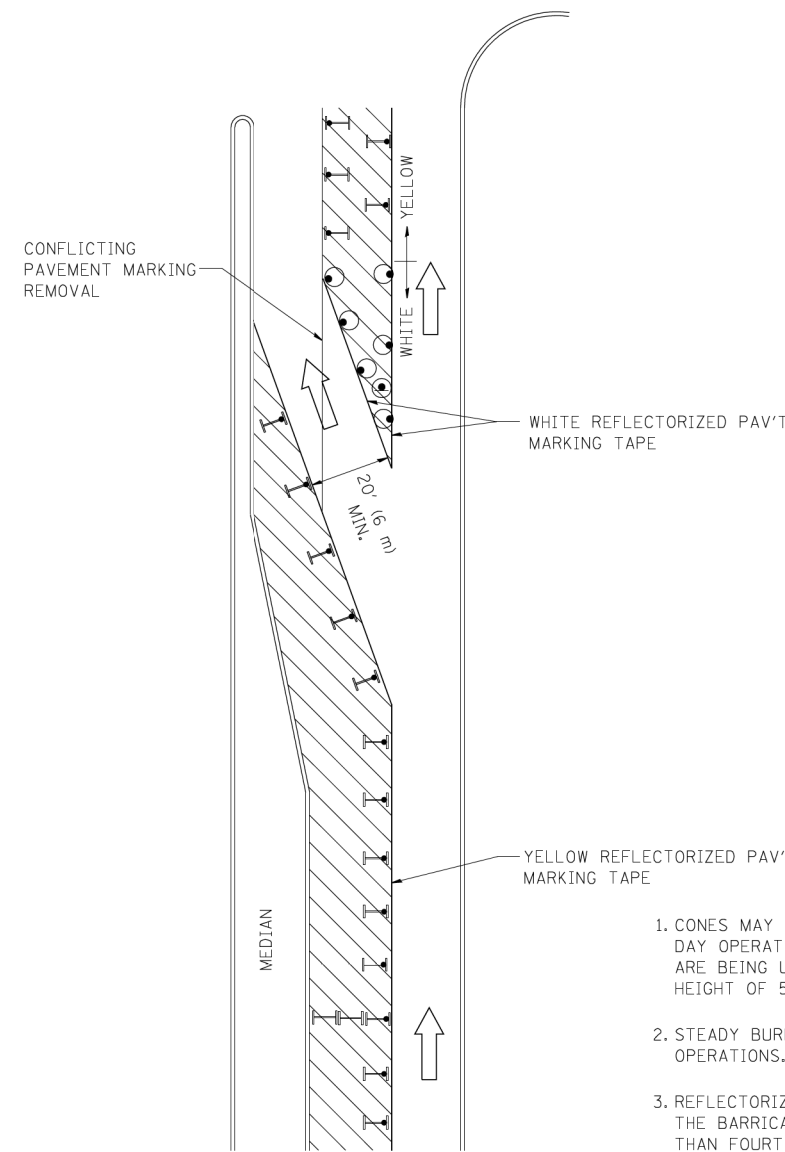
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	91
TC-13		CONTRACT NO.	62B32	
ILLINOIS FED. AID PROJECT				

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






GENERAL NOTES

1. 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 CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT



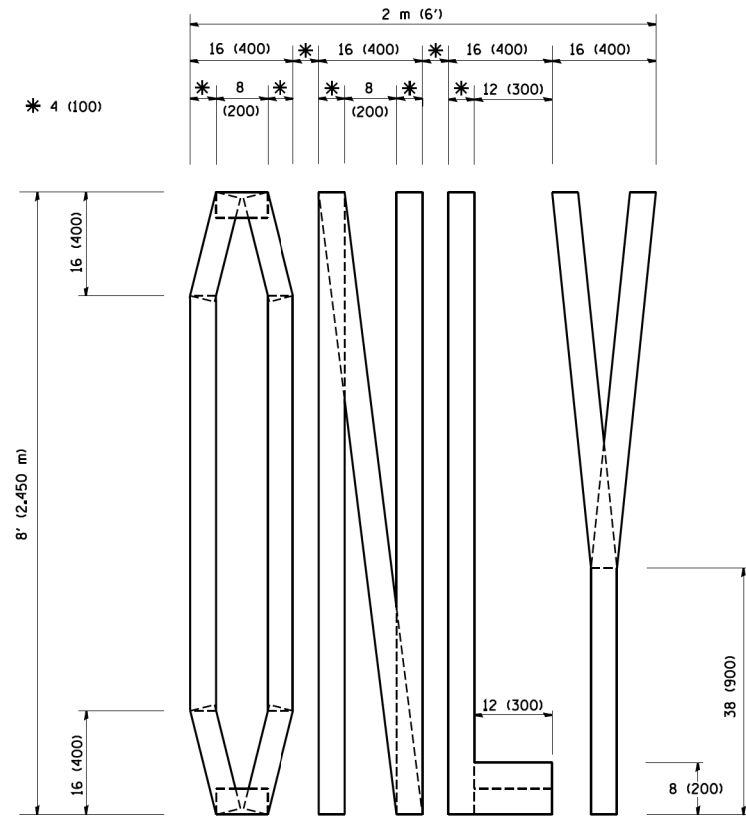
USER NAME = drew.brouk	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	REVISED - A. HOUSEH 11-07-95	REVISED -
PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED -
PLOT DATE = 3/21/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

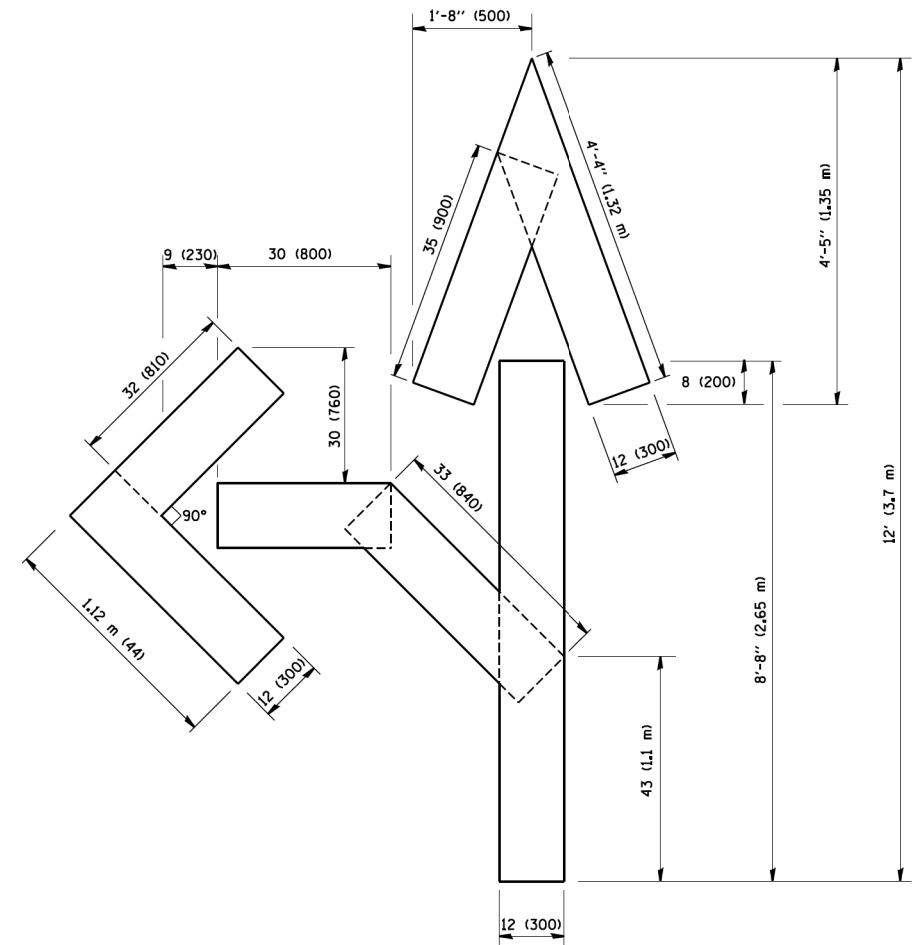
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

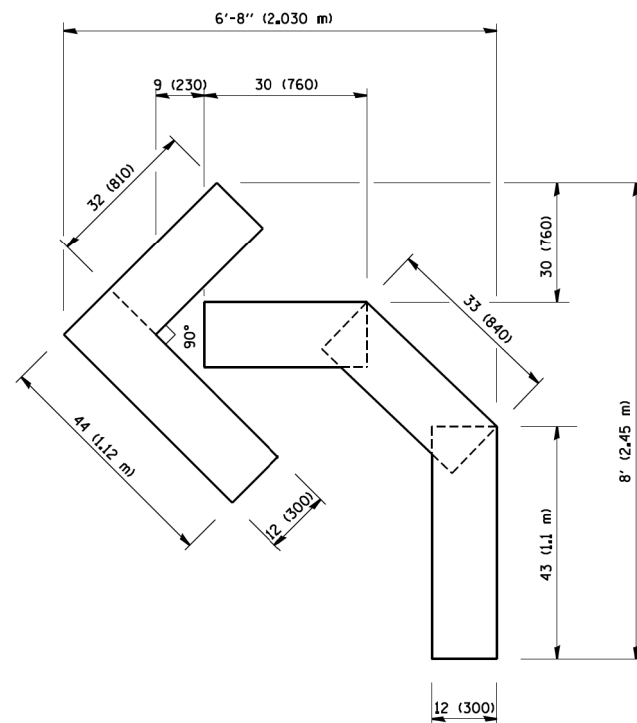
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	92
TC-14		CONTRACT NO. 62B32		
ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = c:\neworking\draw_brouk\transportation\1265\1265\062832-11t-df-01.dgn



USER NAME = drew_brouk	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
	DRAWN -	REVISED -T. RAMMACHER 11-04-97
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
PLOT DATE = 3/21/2016	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION




PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A






F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	93
TC-16			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				

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




ROUTE MARKERS

-  FOR U.S. ROUTES
M1-40-2424
-  FOR ILLINOIS ROUTES
M1-50-2424
-  R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

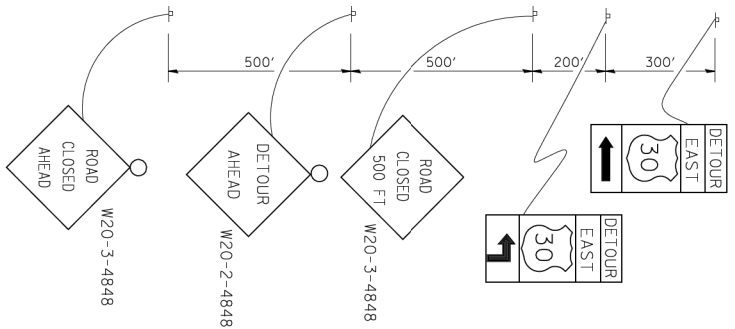
ARROWS SIGNS

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-2-2115
-  M6-3-2115

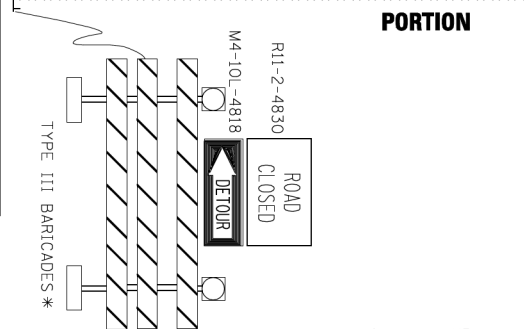
CARDINAL DIRECTION & DETOUR SIGNS

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412

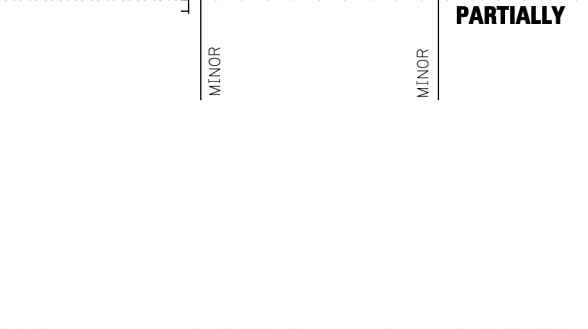
STATE ROUTE



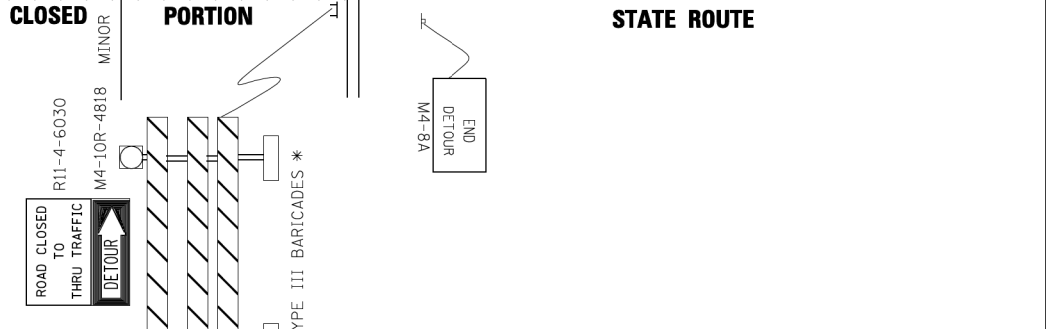
COMPLETELY CLOSED PORTION



PARTIALLY CLOSED PORTION



STATE ROUTE



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



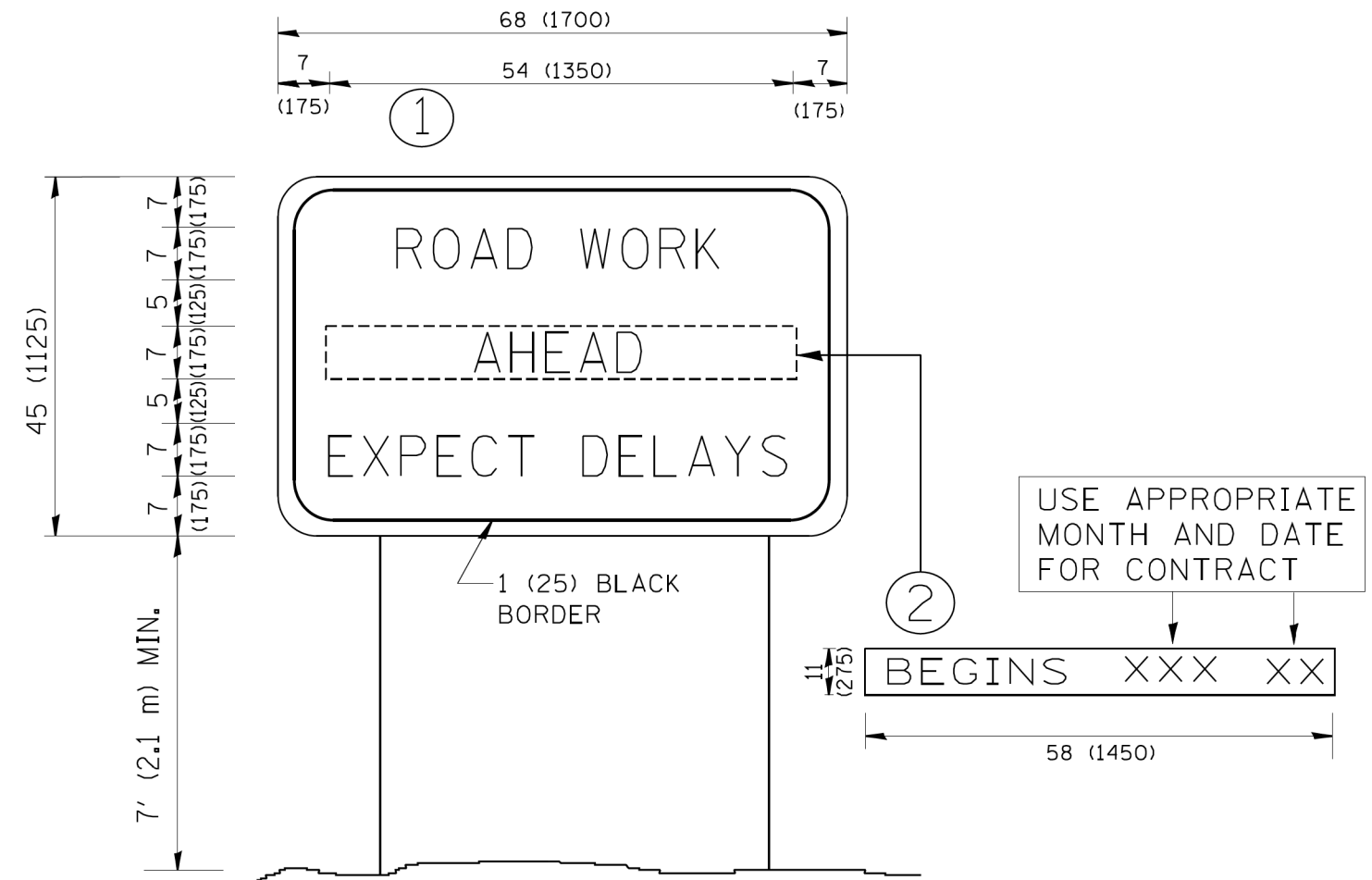
USER NAME = drew_brouk	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	94
TC-21		CONTRACT NO. 62B32		
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: c:\neworking\draw_brouk\transportation\1265\0162832-111-df-011.dgn



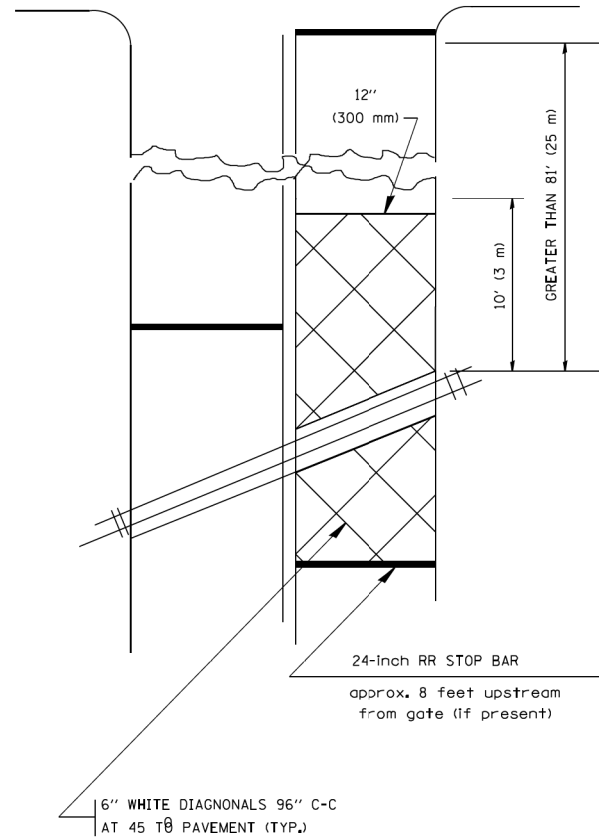
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/21/2016	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

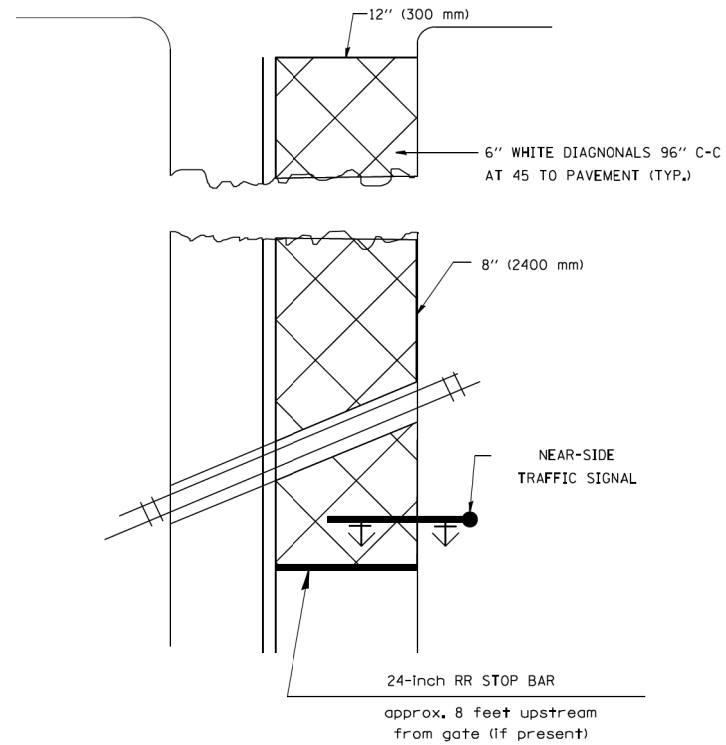
ARTERIAL ROAD INFORMATION SIGN			
SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. N/A	TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	95
TC-22		CONTRACT NO. 62B32		
ILLINOIS FED. AID PROJECT				

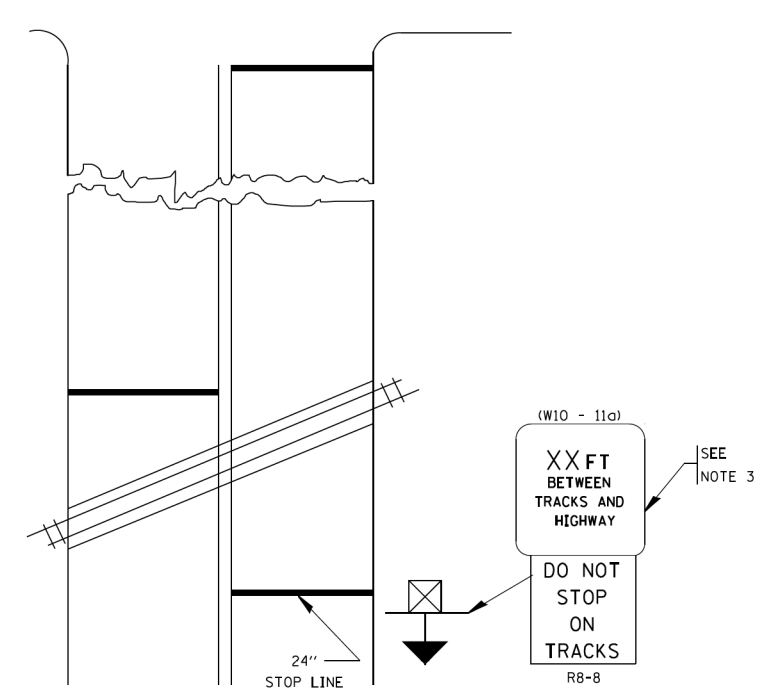
WITH INTERSECTION TRAFFIC SIGNALS
(SEE NOTE 1)



WITH NEAR-SIDE TRAFFIC SIGNALS
(SEE NOTE 1 & 2)



WITH NONSIGNALIZED INTERSECTION
81' (25 m) OR LESS TO CLOSEST RAIL



PLAN
N. T. S.

PLAN
N. T. S.

NOTES:

- PAVEMENT MARKINGS TO BE INSTALLED ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
- DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

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

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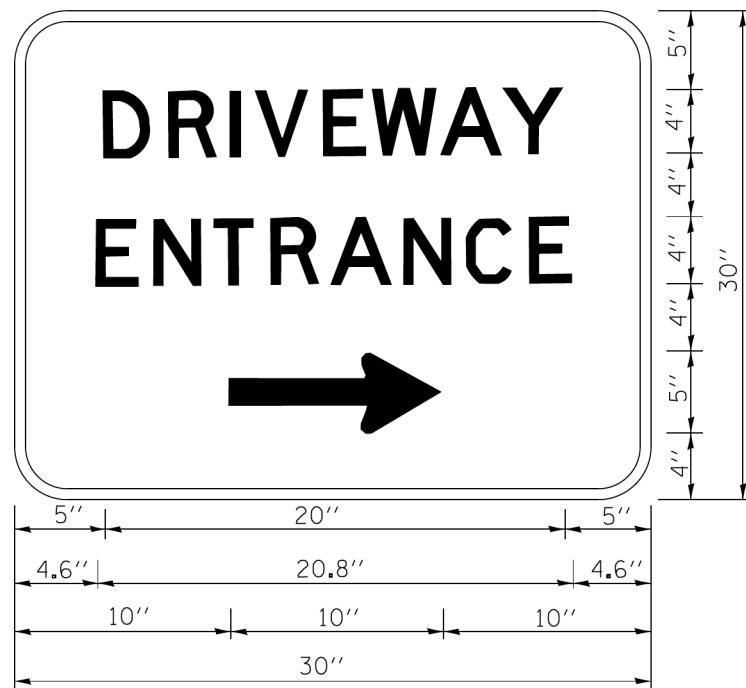
USER NAME = drew.brouk	DESIGNED -	REVISED - 02-25-11
	DRAWN -	REVISED - 04-26-12
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	96
TC-23			CONTRACT NO. 62B32	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = c:\nework\hug\draw\brouk\transportation\1265\0162832-111-df-01.dgn



USER NAME = drew.brouk	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2016	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

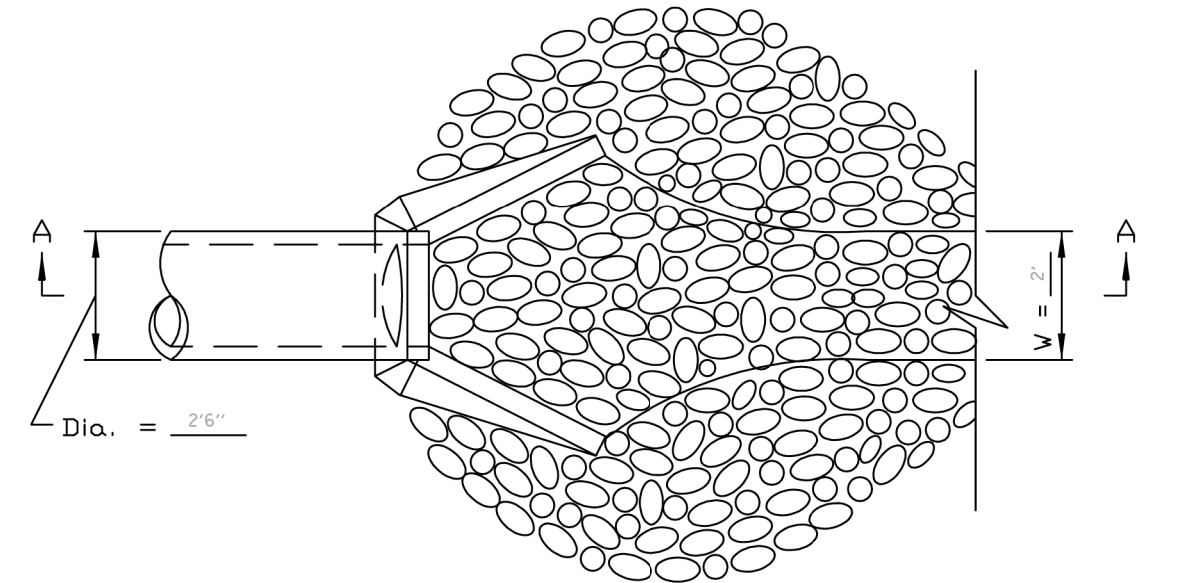
DRIVEWAY ENTRANCE SIGNING

SCALE: NTS SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

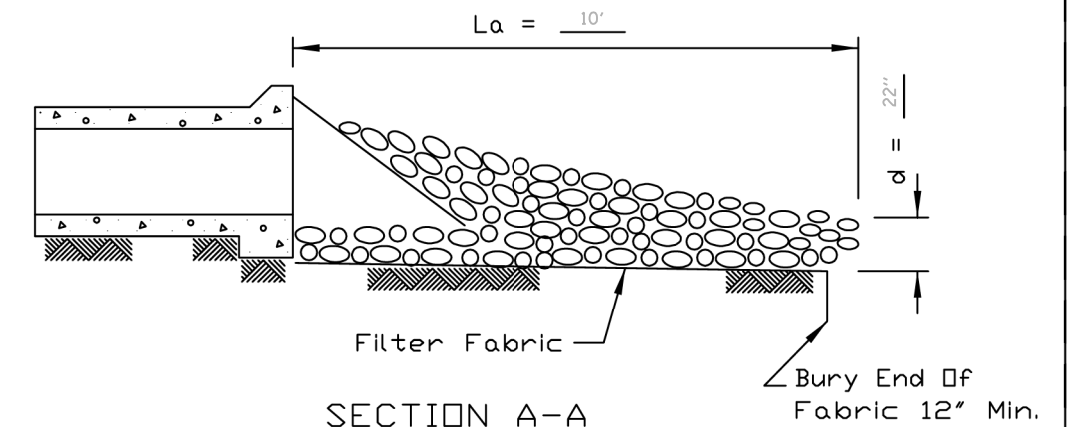
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	97
TC-26		CONTRACT NO. 62B32		
ILLINOIS FED. AID PROJECT				

PIPE OUTLET TO CHANNEL

Pipe Outlet To Well-Defined Channel



PLAN



SECTION A-A

NOTES:

1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III.
2. The rock riprap shall meet the IDOT requirements for the following gradation RIPRAP, CLASS A4.
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IL-611
SHEET	1 OF 1
DATE	8-18-94

FILE NAME = c:\neworking\drw\br\br\transportation\12465\0162832-111-df-011.dgn



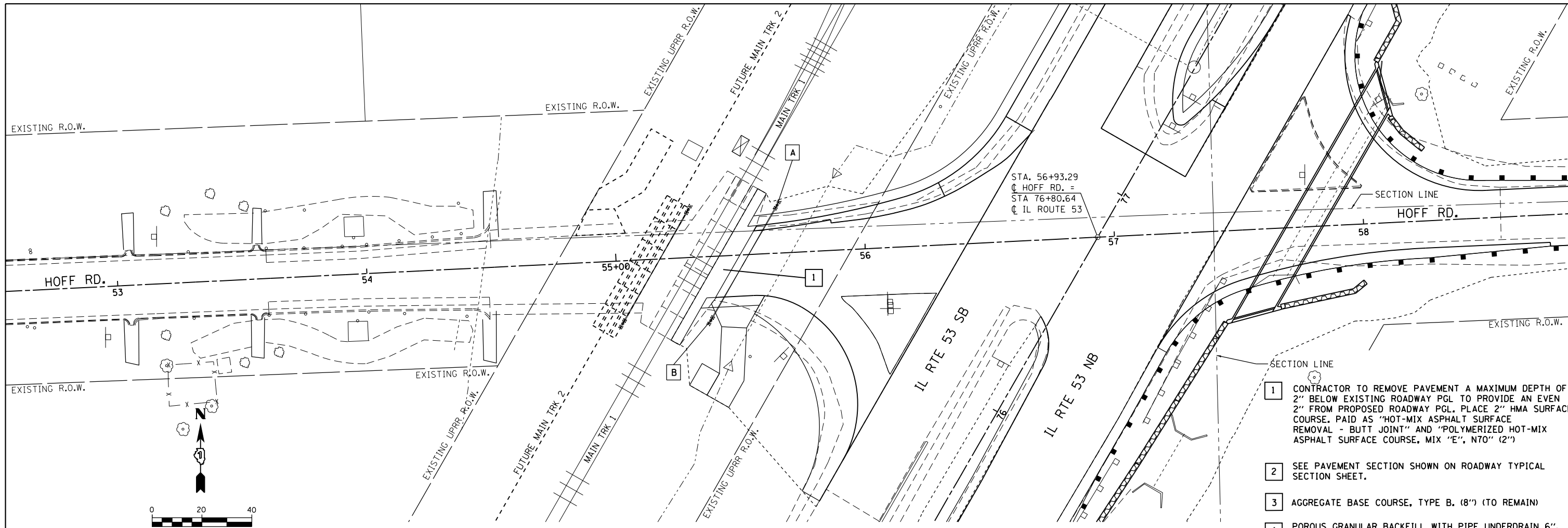
USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIPE OUTLET TO CHANNEL DETAIL

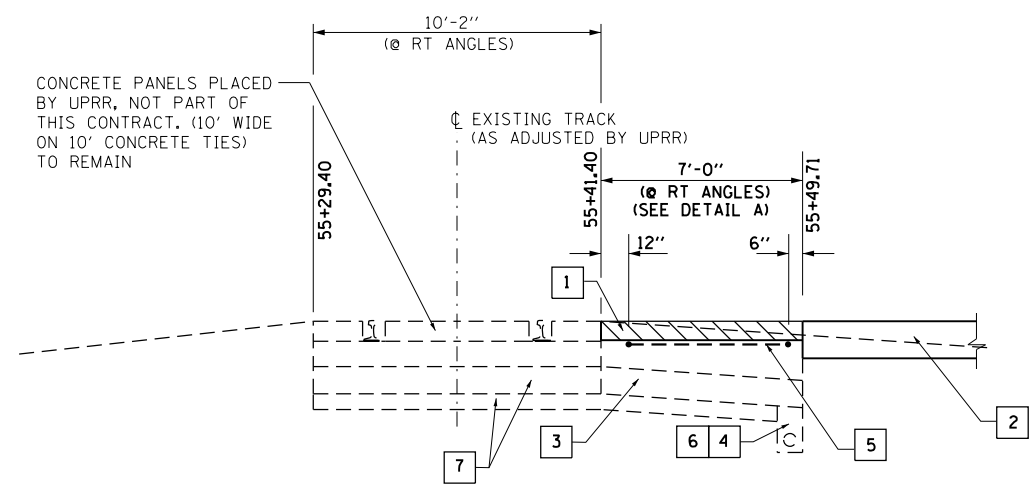
SCALE: SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	98
CONTRACT NO.			62B32	
ILLINOIS FED. AID PROJECT				

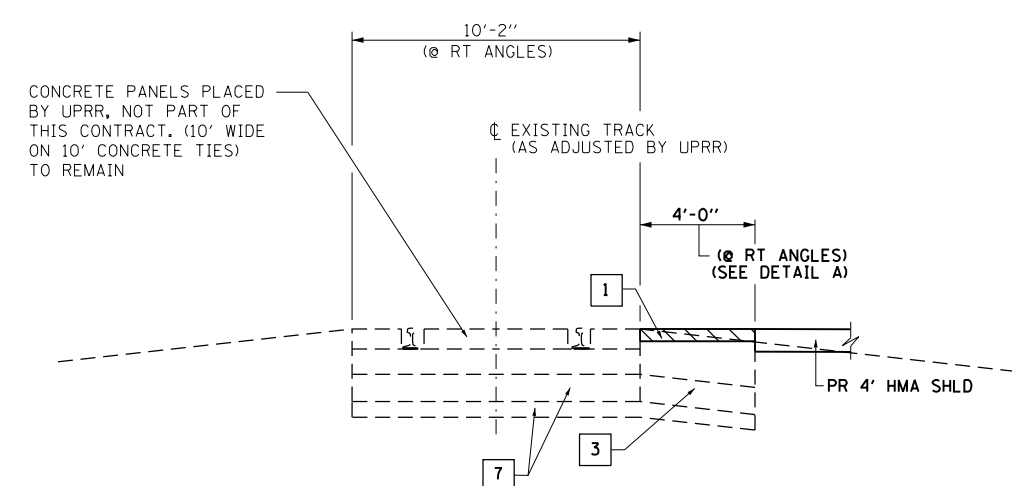


- A STA. 55+65.62, 19.25' LT.
- B STA. 55+36.73, 25.70' RT.

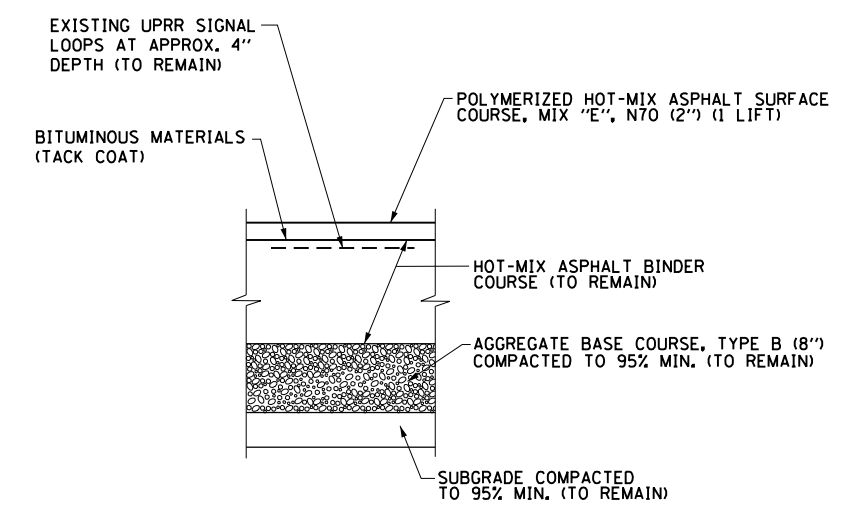
- 1 CONTRACTOR TO REMOVE PAVEMENT A MAXIMUM DEPTH OF 2" BELOW EXISTING ROADWAY PGL TO PROVIDE AN EVEN 2" FROM PROPOSED ROADWAY PGL. PLACE 2" HMA SURFACE COURSE. PAID AS "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" AND "POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70" (2")
- 2 SEE PAVEMENT SECTION SHOWN ON ROADWAY TYPICAL SECTION SHEET.
- 3 AGGREGATE BASE COURSE, TYPE B. (8") (TO REMAIN)
- 4 POROUS GRANULAR BACKFILL WITH PIPE UNDERDRAIN 6". (TO REMAIN)
- 5 EXISTING DETECTOR LOOPS LOCATED APPROXIMATELY 4" FROM SURFACE (TO REMAIN). CONTRACTOR TO COORDINATE WITH UPRR FOR LOCATION.
- 6 GEOTECHNICAL FABRIC AND UNDERDRAIN. (TO REMAIN)
- 7 BALLAST AND SUBBALLAST. (TO REMAIN)



PAVEMENT AT RAIL CROSSING DETAIL



SHOULDER AT RAIL CROSSING DETAIL



DETAIL A
TYPICAL PAVEMENT STRUCTURE AT RAIL CROSSING
STA 55+41.40 TO STA 55+49.71

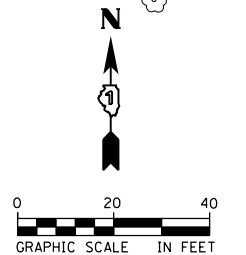
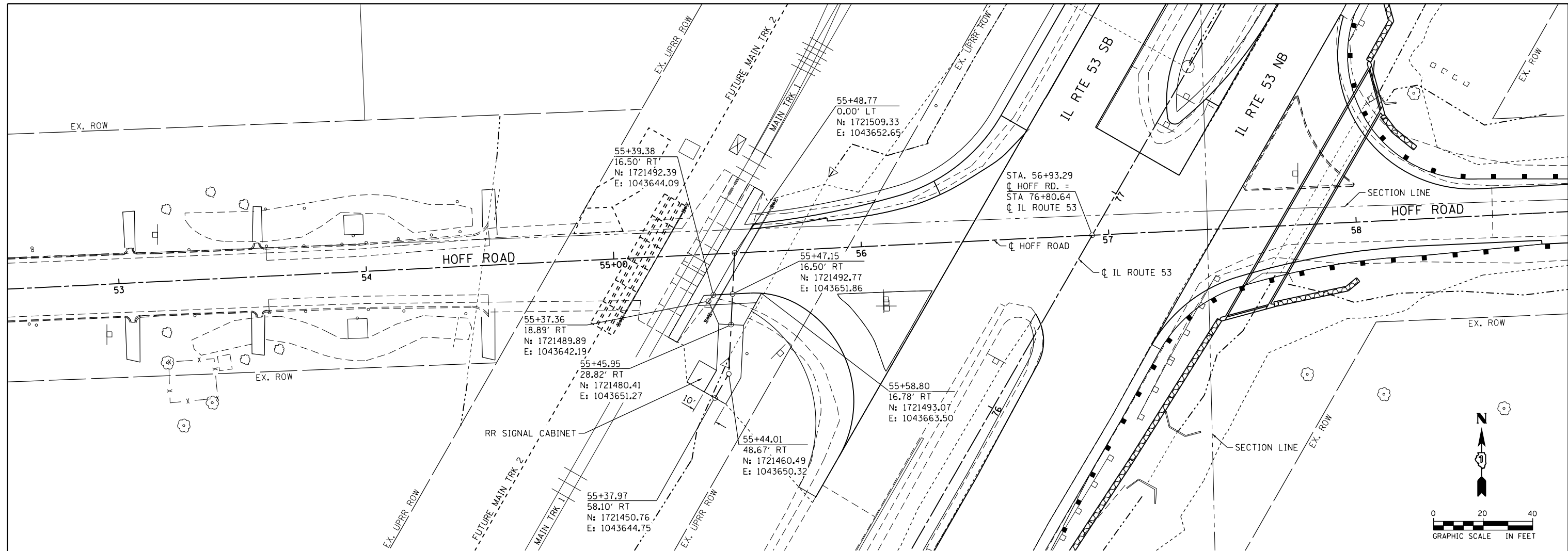


USER NAME = drew.brouk	DESIGNED - MTL	REVISED -
PLOT SCALE = 40.0000 Ft / in.	DRAWN - DAB	REVISED -
PLOT DATE = 3/21/2016	CHECKED - JCM	REVISED -
	DATE - 03/21/2016	REVISED -

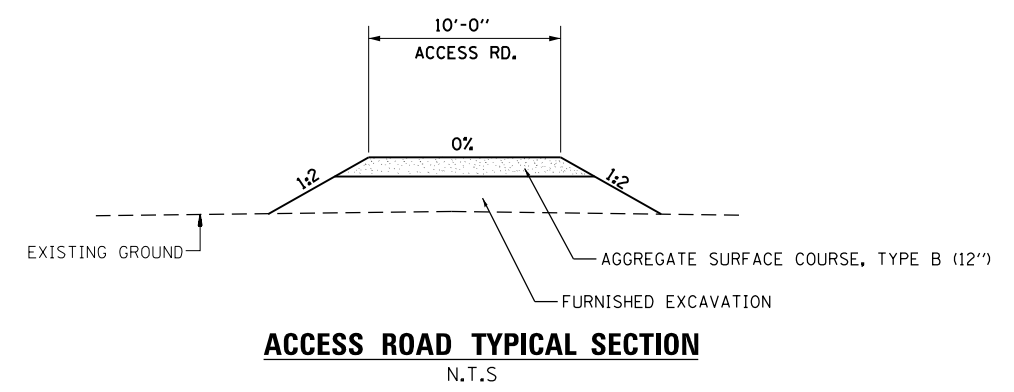
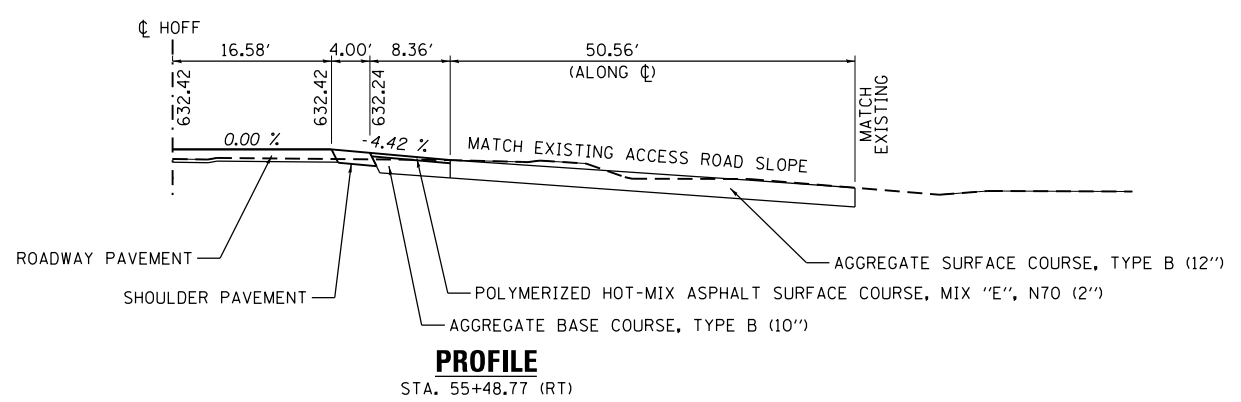
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS			
RAILROAD CROSSING DETAILS - HOFF ROAD			
SCALE: 1" = 20'	SHEET 1 OF 2 SHEETS	STA. N/A TO STA. N/A	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	99
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	



DETAIL OF ACCESS ROAD
(RT. STA. 55+48.77 - HOFF ROAD)



FILE NAME = c:\nework\hwy\drw\br\br\transportation\mtd\65\0162B32-111-miss-accessroad.dgn



USER NAME = drew.bruck	DESIGNED - MTL	REVISED -
	DRAWN - DAB	REVISED -
PLOT SCALE = 48.0000 ft / in.	CHECKED - JCM	REVISED -
PLOT DATE = 3/21/2016	DATE - 03/21/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS			
ACCESS ROAD DETAILS - HOFF ROAD			
SCALE: 1" = 20'	SHEET 2 OF 2 SHEETS	STA. N/A TO STA. N/A	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	DIHSRR2016-01	WILL	146	100
CONTRACT NO. 62B32			ILLINOIS FED. AID PROJECT	