

01-18-2019 LETTING ITEM 150

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

TRAFFIC DATA

ADT: 2016 TRAFFIC
THREE OAKS ROAD 9,545 VPD

ROADWAY SPEED POSTED DESIGN SPEED
THREE OAKS ROAD 30 MPH 30 MPH

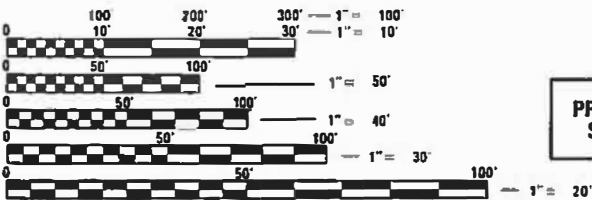
DESIGN DESIGNATION

FAU 4051 (THREE OAKS ROAD) - MINOR ARTERIAL
FAU 4052 (SILVER LAKE TRAIL) - MINOR ARTERIAL
FAU 3702 (SOUTH RAWSON BRIDGE ROAD) - MINOR ARTERIAL

J.U.L.I.E.
JOINT
UTILITY
LOCATION
INFORMATION FOR
EXCAVATION
CALL 811



Know what's below.
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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.

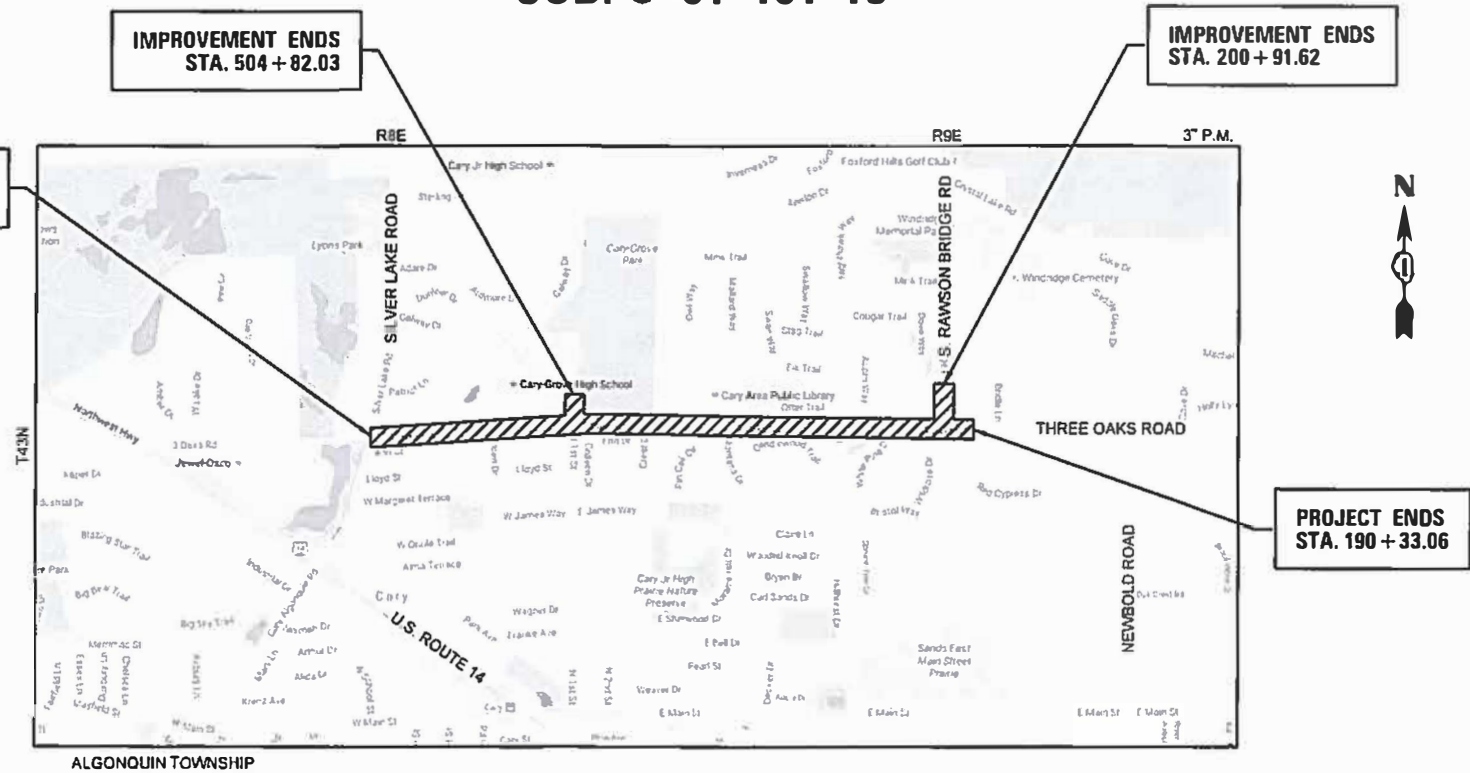
PROJECT LOCATED IN THE
VILLAGE OF CARY



420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL-AID HIGHWAY
FAU 4051 (THREE OAKS ROAD)
THREE OAKS ROAD IMPROVEMENTS
FROM SILVER LAKE TRAIL (FAU 4052) TO SOUTH RAWSON
BRIDGE ROAD (FAU 3702)
BICYCLE PATH FACILITIES, TRAFFIC SIGNALS, SIDEWALK
AND ROADWAY RESURFACING
SECTION: 15-00065-00-RS
PROJECT: 2CCI (757)
VILLAGE OF CARY
MCHENRY COUNTY
JOB: C-91-191-18



PROJECT LOCATION MAP
N.T.S.

PROJECT LENGTH

NET AND GROSS LENGTH OF PROJECT = 8,442 FT. = 1.60 MILES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	1
FED. ROAD DIST. NO 1	ILLINOIS	CONTRACT NO. 61F42		



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED October 26, 2018
Eric D. Mainella
VILLAGE OF CARY

PASSED October 31, 2018
Anthony J. Rungtzy
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW NOVEMBER 8, 2018
Anthony J. Rungtzy
REGIONAL ENGINEER



Jeffrey J. Strzalka
JEFFREY J. STRZALKA, P.E.
EXPIRES: 11-30-19

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FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAMBOURG, IL

CONTRACT NO. 61F42

COMPANY NAME: \$COMPANY_NAME\$
PROJECT CONTACT: \$PROJECT_CONTACT\$
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS, DISTRICT ONE DETAILS
AND GENERAL NOTES

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	2
CONTRACT NO.			61F42	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INDEX OF SHEETS

1		COVER SHEET
2		INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS AND DISTRICT ONE DETAILS
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DISTRICT ONE DETAILS

STANDARD NO.	LIST OF DESCRIPTION
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (7 SHEETS)

HIGHWAY STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. ADJWITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN TYPE A
602301-04	INLETS TYPE A
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604036-03	GRATE TYPE 8
604051-04	FRAME AND GRATE 11
606001-07	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-07	STEEL MAST ARM ASSEMBLY & POLE, 16' THRU 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	3
CONTRACT NO.			61F42	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2019.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE NAVD88 DATUM.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN CONSENT FROM THE VILLAGE.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES, PROVIDED BY THE VILLAGE TO RESIDENTS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES (I.E., KNOCK ON DOORS WHEN DRIVEWAY IS ABOUT TO BE CLOSED). THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE A DRIVEWAY FOR MORE THAN 48 HOURS UNDER ANY CIRCUMSTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BARRICADES TO PREVENT TRAFFIC FROM USING THE DRIVEWAYS DURING THIS PERIOD.
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.

STORM SEWERS, WATER MAINS, AND UTILITIES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL COOPERATE WITH THE VILLAGE IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE VILLAGE WITHIN THE DURATION OF THE CONTRACT.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 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.
- THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF THE WATER.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.

SIGNING AND STRIPING

- SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
- ANY SIGNS THAT ARE GOING TO BE DISTURBED DURING CONSTRUCTION MUST BE APPROPRIATELY STORED AND PROTECTED OR RETURNED TO THE OWNERS OF THE SIGN FOR STORAGE. THE SIGNS WILL BE RE-ERECTED UPON COMPLETION.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED.
- SEE IDOT STANDARD DETAIL 780001. DISTRICT ONE DETAILS AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS.
- ALL SIGNS SHALL BE INSTALLED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED.

EARTHWORK

- PRIOR TO ANY EMBANKMENT PLACEMENT, ALL VEGETATION AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL AS APPROVED BY THE ENGINEER.
- AGGREGATE SUBGRADE IMPROVEMENT IN CU YD (ASI) HAS BEEN PROVIDED FOR GENERAL USE. THE ACTUAL NEED FOR REMOVAL OF UNSUITABLE AND UNSTABLE SOILS AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED FROM THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE DUE TOWARDS THE CONTRACTOR.
- SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.

SEDIMENTATION AND EROSION CONTROL

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY AND PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET SHALL BE APPLIED ON ALL DISTURBED AREAS IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDDED SHALL BE DETERMINED BY THE ENGINEER.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF THE ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE IN ACCORDANCE WITH SECTIONS 250 AND 280 OF THE STANDARD SPECIFICATIONS.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED AS DIRECTED BY THE ENGINEER.
- ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY, OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES. IF DE-WATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- THE EROSION CONTROL MEASURES INDICATED IN THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

TRAFFIC CONTROL

- SEE TRAFFIC CONTROL PLANS FOR GENERAL NOTES CONCERNING TRAFFIC CONTROL AND PROTECTION.

PAVING

- THE CONTRACTOR WILL COMPLETE PAVING OPERATIONS OF THE HOT-MIX ASPHALT SURFACE IN A MANNER SO THAT NO LONGITUDINAL CONSTRUCTION JOINTS ARE LEFT UNCOVERED AT THE END OF EACH DAY.
- TRANSVERSE CONSTRUCTION JOINTS WILL BE ALLOWED DURING PAVING PROVIDED THE CONTRACTOR COMPLETE A SAWCUT AT LEAST SIX INCHES INTO THE ADJACENT MAT AT THE START OF PAVING THE FOLLOWING DAY.

LANDSCAPING

- MULCH SHALL BE SPREAD AROUND TREES AND SHRUBS IN ACCORDANCE WITH ARTICLE 253.11 OF THE STANDARD SPECIFICATIONS.
- NEW TREES AND SHRUBS SHALL BE APPROPRIATELY WATERED IN ACCORDANCE WITH ARTICLE 253.15 OF THE STANDARD SPECIFICATIONS.

COMMITMENTS

- NONE.

EARTHWORK SUMMARY

			CROSS SECTION BASED			
ITEM NO.	CODE	DESCRIPTION	PRBIKE1	PRBIKE2	WIDENING / SIDEWALK	TOTAL
1	20200100	EARTH EXCAVATION	120.6	268.0	0.0	389
2	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	365.3	1,256.3	389.0	2,011
3	20400800	FURNISHED EXCAVATION	37.0	374.7	10.0	422
4	30300001	AGGREGATE SUBGRADE IMPROVEMENT	0.0	0.0	0.0	0

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PROJECT CONTACT: \$PROJECT_CONTACT\$
CLIENT: \$CLIENT\$
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 80% FEDERAL 000 5	SIGNALS 80% FEDERAL 0021	SAFETY 90% FEDERAL 0021
+ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	51	51		
+ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	192	192		
20101000	TEMPORARY FENCE	FOOT	510	510		
+ 20101200	TREE ROOT PRUNING	EACH	16	16		
+ 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	7	7		
+ 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	15	15		
20200100	EARTH EXCAVATION	CU YD	389	389		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,186	2,186		
20400800	FURNISHED EXCAVATION	CU YD	422	422		
20800150	TRENCH BACKFILL	CU YD	46	46		
20900110	POROUS GRANULAR BACKFILL	CU YD	133	133		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	7,845	7,845		
+ 25000110	SEEDING, CLASS 1A	ACRE	1.70	1.70		
+ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	153	153		
+ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	153	153		
+ 25100630	EROSION CONTROL BLANKET	SO YD	7,800	7,800		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	78	78		
28000305	TEMPORARY DITCH CHECKS	FOOT	45	45		
28000400	PERIMETER EROSION BARRIER	FOOT	556	556		
28000510	INLET FILTERS	EACH	42	42		
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	644	644		
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SO YD	3,922	3,922		
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	1,595	1,595		
35400100	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 6"	SO YD	1,018	1,018		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8,382	8,382		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	26,189	26,189		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	56	56		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	188	188		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	5,090	5,090		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	475	475		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3,470	3,470		
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SO FT	5,790	5,790		
42400800	DETECTABLE WARNINGS	SO FT	382	382		
44000100	PAVEMENT REMOVAL	SO YD	10	10		
44000163	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"	SO YD	38,447	38,447		
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	215	215		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,890	1,890		
44000600	SIDEWALK REMOVAL	SO FT	7,913	7,913		
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SO YD	375	375		
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SO YD	375	375		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 80% FEDERAL 000 5	SIGNALS 80% FEDERAL 0021	SAFETY 90% FEDERAL 0021
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SO YD	375	375		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,310	1,310		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	225	225		
50200100	STRUCTURE EXCAVATION	CU YD	175	175		
50300225	CONCRETE STRUCTURES	CU YD	35	35		
50800205	REINFORCEMENT BARS EPOXY COATED	POUND	2,590	2,590		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	220	220		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3	3		
55100500	STORM SEWER REMOVAL 12"	FOOT	164	164		
+ 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	3	3		
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	175	175		
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2		
60202405	CATCH BASINS, TYPE A, 4'-DIAMETER	EACH	1	1		
60205605	CATCH BASINS, TYPE A, 5'-DIAMETER	EACH	1	1		
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1		
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	6	6		
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1		
60255500	MANHOLES TO BE ADJUSTED	EACH	7	7		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2		
60500050	REMOVING CATCH BASINS	EACH	1	1		
60500060	REMOVING INLETS	EACH	10	10		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,795	1,795		
67100100	MOBILIZATION	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	240	240		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	16,824	16,824		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	8,946	8,946		
+ 72000100	SIGN PANEL - TYPE 1	SO FT	184.0			184.0
+ 72000200	SIGN PANEL - TYPE 2	SO FT	50.0			50.0
+ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	232			232
+ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	1,113			1,113
+ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	23,407			23,407
+ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5,202			5,202
+ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,549			2,549
+ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	433			433
+ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	129		129	

* SPECIAL PROVISION X CONSTRUCTION TYPE CODE 0042
+ SPECIALTY ITEM Δ 100% LOCAL

 HRGreen.com Illinois Professional Design Firm # 184-001322 	USER NAME = jstrzel	DESIGNED - JJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 257-sht-sum.01.dgn	DRAWN - DMS	REVISED -						4051	15-000655-00-RS	MCHENRY	72	4
	PLOT SCALE = N.T.S.	CHECKED - AC	REVISED -		CONTRACT NO.		61F42						
	PLOT DATE = 11/20/2018	DATE - 08/10/18	REVISED -		SCALE: N.T.S.		SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					ROADWAY 80% FEDERAL 000 5'	SIGNALS 80% FEDERAL 0021	SAFETY 90% FEDERAL 0021
* +	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44		44	
* +	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	138		138	
* +	81400100	HANDHOLE	EACH	2		2	
* +	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
* +	85100100	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1 △	
* +	85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	2		2	
* +	85100701	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1		1	
* +	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	496		496	
* +	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	801		801	
* +	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	224		224	
* +	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	799		799	
* +	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	520		520	
* +	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	478		478	
* +	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2	
* +	87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1		1	
* +	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12	
* +	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15		15	
* +	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1		1	
* +	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1	
* +	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2	
* +	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1	
* +	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN	EACH	6		6	
* +	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN	EACH	1		1	
* +	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3		3	
* +	88500100	INDUCTIVE LOOP DETECTOR	EACH	1		1	
* +	88600100	DETECTOR LOOP, TYPE 1	FOOT	316		316	
* +	88600600	DETECTOR LOOP REPLACEMENT	FOOT	505		505	
* +	88700200	LIGHT DETECTOR	EACH	6		6	
* +	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2		2	
* +	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8	
* +	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2		2	
+	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	143		143	
+	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	453		453	
* +	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
+	89502380	REMOVE EXISTING HANDHOLE	EACH	2		2	
+	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3		3	
* +	X0322463	CONNECTION TO EXISTING SEWER	EACH	9	9		
* +	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	232		232	
* +	X0326806	WASHOUT BASIN	L SUM	1	1		
* +	X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	1			1

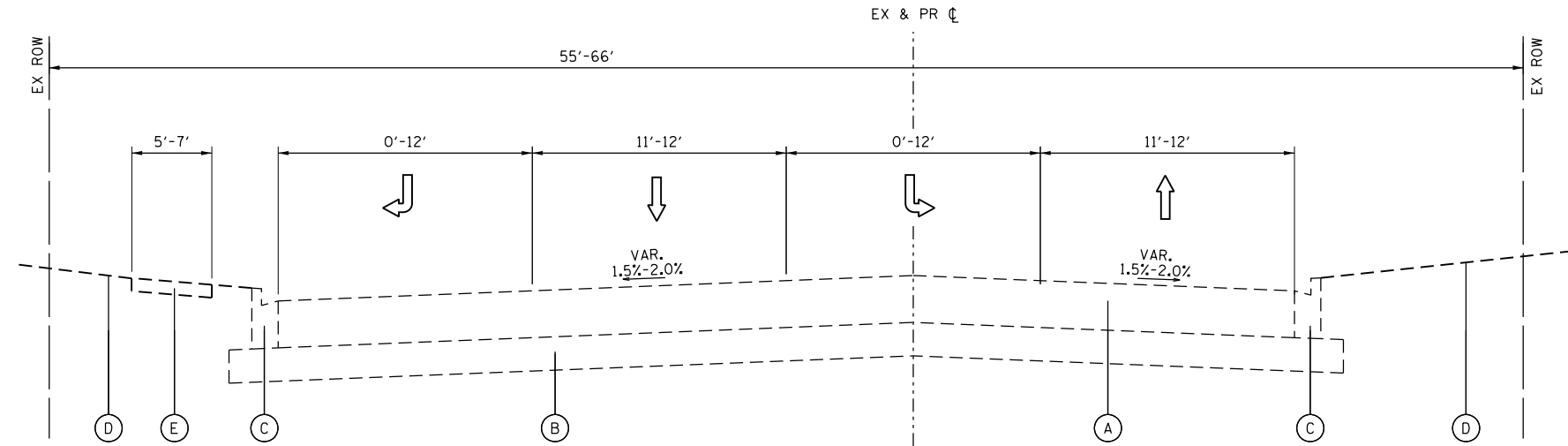
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					ROADWAY 80% FEDERAL 000 3	SIGNALS 80% FEDERAL 0021	SAFETY 90% FEDERAL 0021
•	X1700034	FORM LINER TEXTURED SURFACE	SO FT	233	233		
•	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100		
•	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2		
•	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2		
•	X6026624	VALVE BOXES TO BE ADJUSTED (SPECIAL)	EACH	2	2		
•	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	16	16		
•	X6640200	TEMPORARY CHAIN LINK FENCE	FOOT	390	390		
• +	X7240505	RELOCATE SIGN PANEL AND POST	EACH	4	4		
• +	X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SO FT	1,040			1,040
• +	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	23,407			23,407
• +	X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	5,202			5,202
• +	X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	2,239			2,239
• +	X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	433			433
• +	X8100105	CONDUIT SPLICE	EACH	1		1	
• +	X8140115	HANDHOLE TO BE ADJUSTED	EACH	1	1		
• +	X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	1	1		
• +	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2		2	
• +	X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	6		6	
• +	X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	7		7	
• +	X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	6		6	
• +	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
•	Z0022800	FENCE REMOVAL	FOOT	425	425		
•	Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	78.0	78.0		
•	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	19,390	19,390		
•	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	90	90		
• +	Z0077900	WOOD POST AND RAIL FENCE	FOOT	420	420		
• +	A2000192	TREE, ACER X FREEMANII AUTUMN FANTASY (AUTUMN FANTASY FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
• +	A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
• +	A2008470	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		

- * SPECIAL PROVISION
- + SPECIALTY ITEM
- X CONSTRUCTION TYPE CODE 0042
- △ 100% LOCAL FUNDED

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PROJECT CONTACT: \$PROJECT_CONTACT\$
CLIENT: \$CLIENT\$
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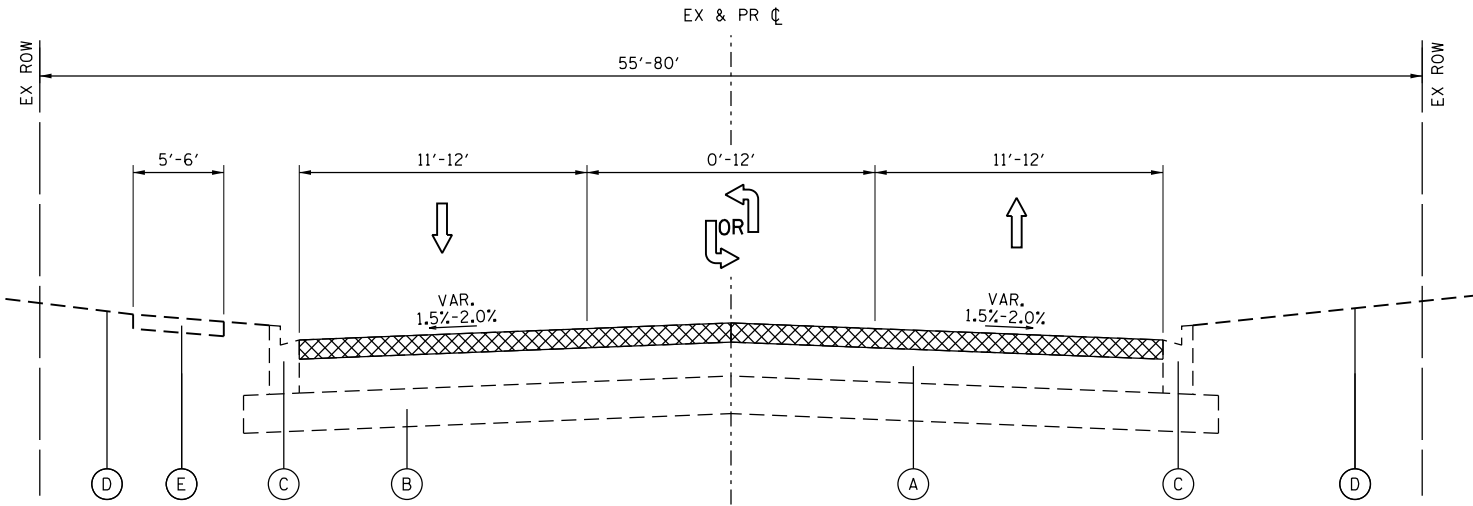
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	PLOT DATE = 11/20/2018	DATE = 08/10/18	REVISED =											
					SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

COMPANY NAME: HRGreen.com
PROJECT CONTACT: JSTRZEL
DATE PLOTTED: 11/12/2018 3:10:00 PM
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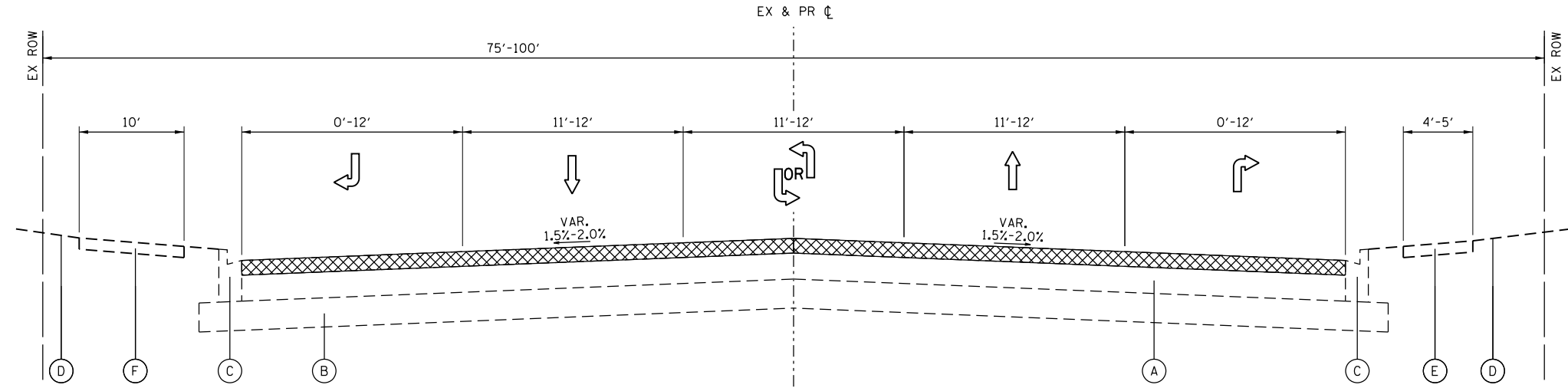
EXISTING TYPICAL SECTION

THREE OAKS ROAD
STA. 103+67 (SILVER LAKE ROAD) TO STA. 110+71 (WEST OF WALNUT RIDGE CT)



EXISTING TYPICAL SECTION

THREE OAKS ROAD
STA. 110+71 (WEST OF WALNUT RIDGE CT) TO STA. 132+00 (FIRST STREET)



EXISTING TYPICAL SECTION

THREE OAKS ROAD
STA. 132+00 (FIRST STREET) TO STA. 171+75 (EAST OF NIGHAWK WAY)

EXISTING TYPICAL SECTION

- (A) HOT-MIX ASPHALT PAVEMENT; 8" TO 14"
- (B) AGGREGATE BASE COURSE; 3" TO 14"
- (C) COMBINATION CONCRETE CURB & GUTTER (SPOT REMOVAL AND REPLACEMENT)
- (D) EXISTING GROUND
- (E) EXISTING PCC SIDEWALK (SPOT REMOVAL AND REPLACEMENT)
- (F) EXISTING BIKE PATH
- (G) AGGREGATE SHOULDERS

- HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"
- REMOVAL ITEM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
THREE OAKS ROAD

SCALE: N.T.S. SHEET NO. 1 OF 4 SHEETS STA. 103+66.74 TO STA. 171+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	6
CONTRACT NO.			61F42	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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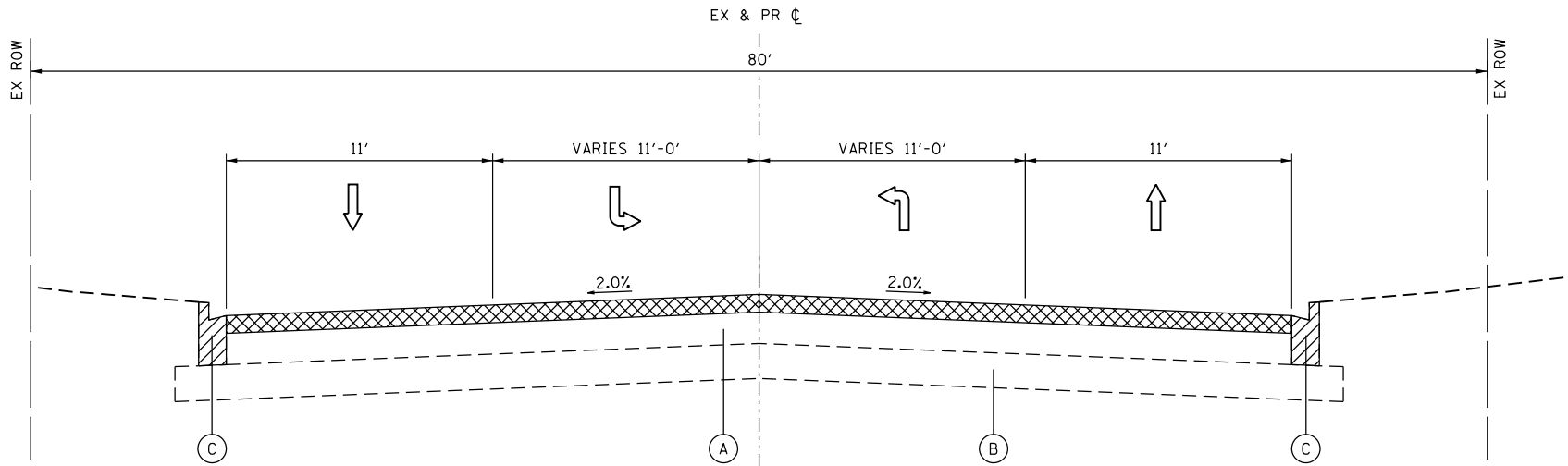


HRGreen.com
Illinois Professional Design Firm
184-001322

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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

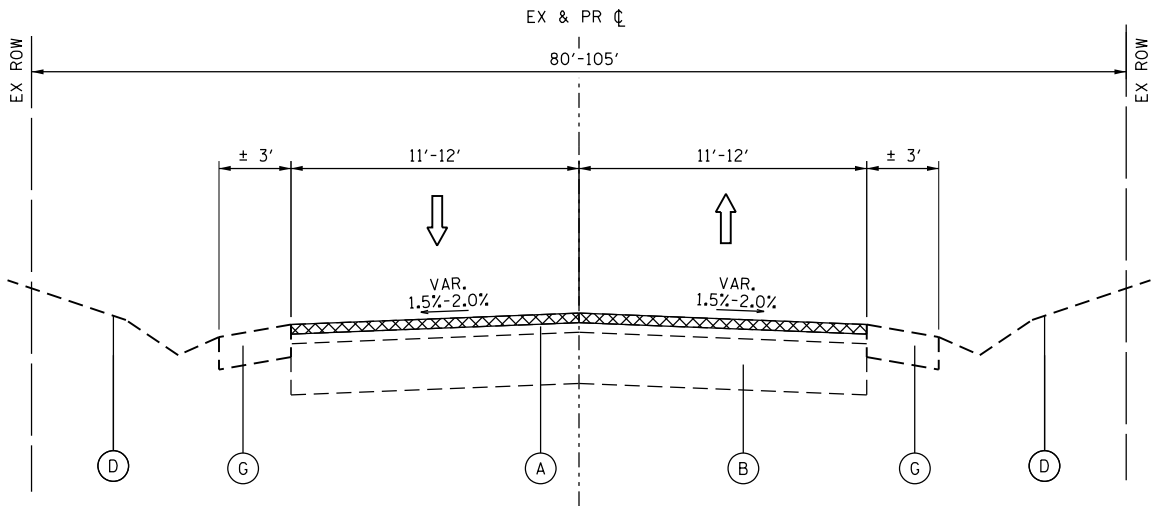
NORTH FIRST STREET
STA. 500+00.00 TO STA. 504+82.03

EXISTING TYPICAL SECTION



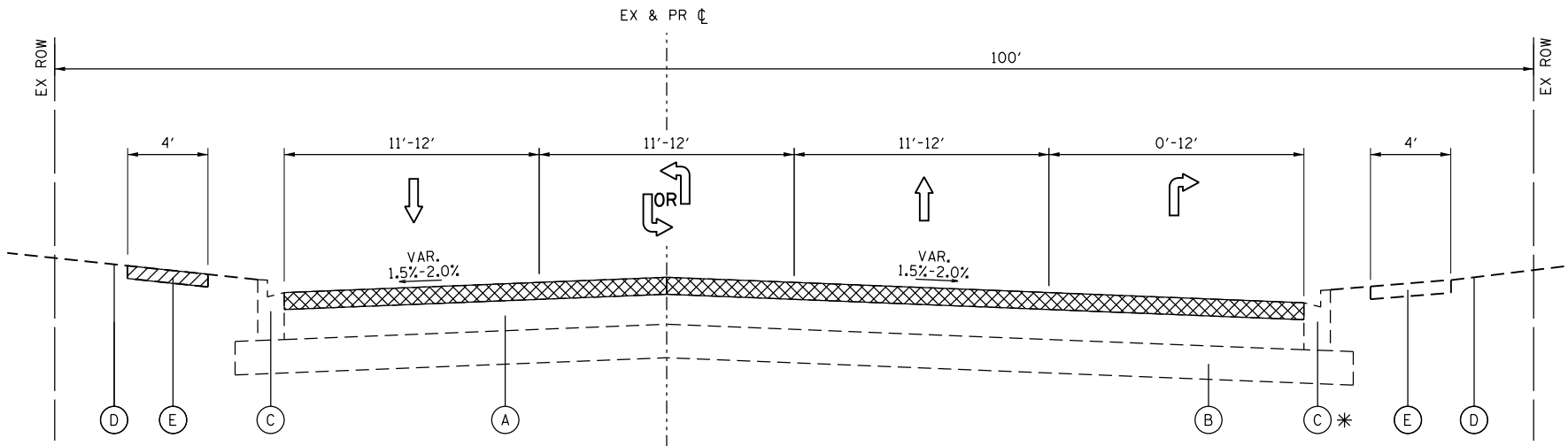
EXISTING TYPICAL SECTION

SOUTH RAWSON BRIDGE ROAD
STA. 190+33.06 TO STA. 203+93.50



EXISTING TYPICAL SECTION

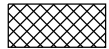
THREE OAKS ROAD
STA. 171+75 (EAST OF NIGHTHAWK WAY) TO STA. 188+00 (SOUTH RAWSON BRIDGE ROAD)



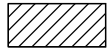
* NOTE: AGGREGATE SHOULDER FROM STA. 177+36 TO STA. 183+54

EXISTING TYPICAL SECTION

- (A) HOT-MIX ASPHALT PAVEMENT; 8" TO 14"
- (B) AGGREGATE BASE COURSE; 3" TO 14"
- (C) COMBINATION CONCRETE CURB & GUTTER (SPOT REMOVAL AND REPLACEMENT)
- (D) EXISTING GROUND
- (E) EXISTING PCC SIDEWALK (SPOT REMOVAL AND REPLACEMENT)
- (F) EXISTING BIKE PATH
- (G) AGGREGATE SHOULDERS



HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"



REMOVAL ITEM

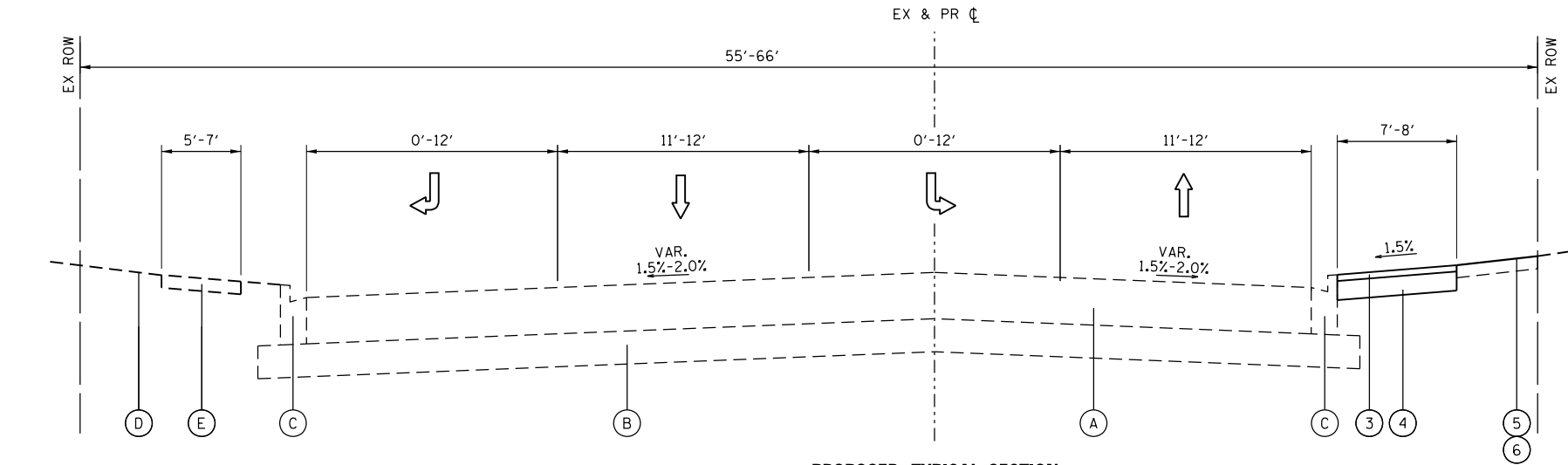
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
THREE OAKS ROAD & SOUTH RAWSON BRIDGE ROAD

SCALE: N.T.S. SHEET NO. 2 OF 4 SHEETS STA. 171+75.00 TO STA. 187+00.00

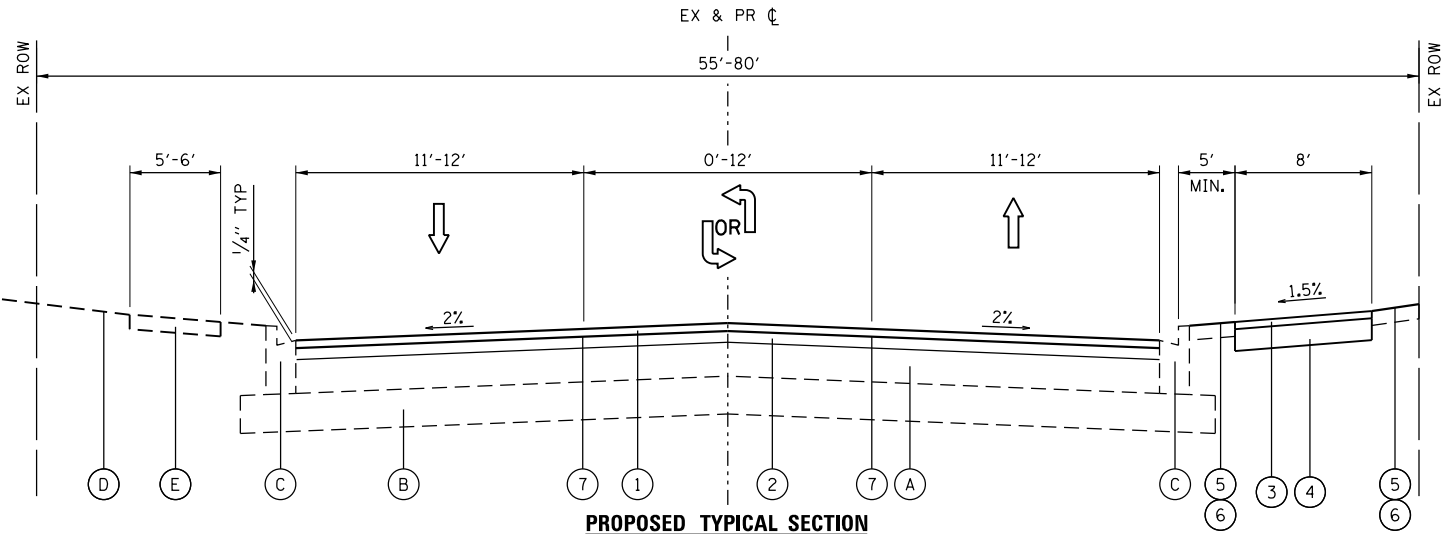
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	7
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

COMPANY NAME: HRGreen.com
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:20:06 PM
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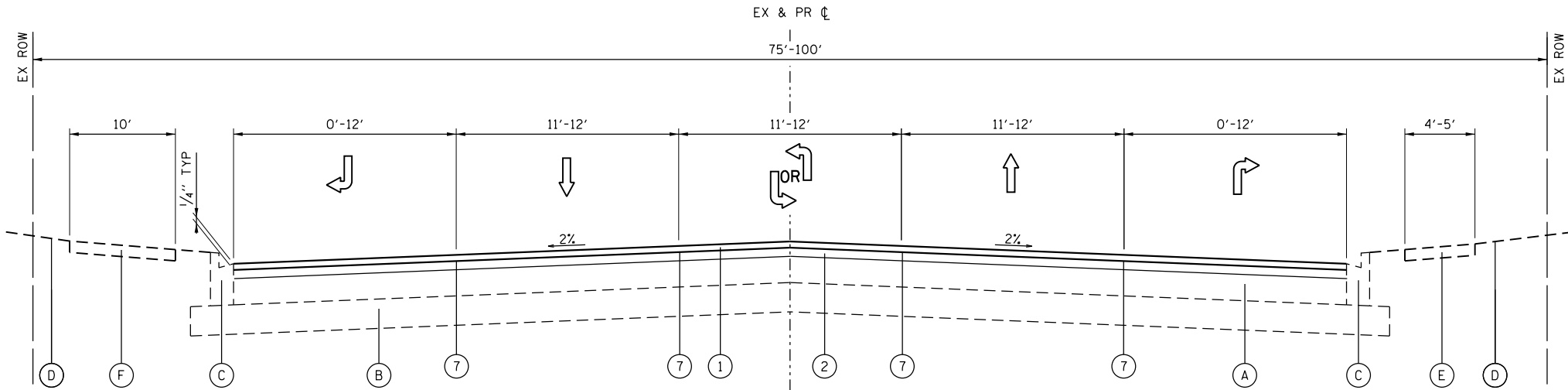
PROPOSED TYPICAL SECTION

THREE OAKS ROAD
STA. 103+67 (SILVER LAKE ROAD) TO STA. 110+71 (WEST OF WALNUT RIDGE CT)



PROPOSED TYPICAL SECTION

THREE OAKS ROAD
STA. 110+71 (WEST OF WALNUT RIDGE CT) TO STA. 132+00 (FIRST STREET)



PROPOSED TYPICAL SECTION

THREE OAKS ROAD
STA. 132+00 (FIRST STREET) TO STA. 171+75 (EAST OF NIGHTHAWK WAY)

EXISTING TYPICAL SECTION

- (A) HOT-MIX ASPHALT PAVEMENT; 8" TO 14"
- (B) AGGREGATE BASE COURSE; 3" TO 14"
- (C) COMBINATION CONCRETE CURB & GUTTER (SPOT REMOVAL AND REPLACEMENT)
- (D) EXISTING GROUND
- (E) EXISTING PCC SIDEWALK (SPOT REMOVAL AND REPLACEMENT)
- (F) EXISTING BIKE PATH
- (G) AGGREGATE SHOULDERS

- HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"
- REMOVAL ITEM

PROPOSED TYPICAL SECTION

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 2"
- (4) SUBBASE GRANULAR MATERIAL, TYPE B; 6"
- (5) SEEDING, CLASS 1A EROSION CONTROL BLANKET
- (6) FURNISH AND PLACE TOPSOIL, 4"
- (7) LONGITUDINAL JOINT SEALANT
- (8) OMITTED
- (9) AGGREGATE SHOULDERS, TYPE B (CA-6 CRUSHED STONE OR CRUSHED AGGREGATE)
- (10) COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- (11) PCC BASE COURSE WIDENING; 6"
- (12) AGGREGATE BASE, TYPE B; 6" (CA-7 WASHED CRUSHED STONE OR AGGREGATE)



USER NAME = jstrzel	DESIGNED - JJS	REVISED -
FILE NAME = 257-shr-tyr_03.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AC	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
THREE OAKS ROAD

SCALE: N.T.S. SHEET NO. 3 OF 4 SHEETS STA. 103+67.00 TO STA. 171+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	8
CONTRACT NO.			61F42	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:12:09 PM
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HRGreen.com
Illinois Professional Design Firm
#184-001322

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PLOT DATE = 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
THREE OAKS ROAD & SOUTH RAWSON BRIDGE ROAD

SCALE: N.T.S. SHEET NO. 4 OF 4 SHEETS STA. 171+75.00 TO STA. 187+00.00

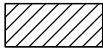
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4051	15-00065-00-RS	MCHENRY	72	9
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EXISTING TYPICAL SECTION

- (A) HOT-MIX ASPHALT PAVEMENT; 8" TO 14"
- (B) AGGREGATE BASE COURSE; 3" TO 14"
- (C) COMBINATION CONCRETE CURB & GUTTER (SPOT REMOVAL AND REPLACEMENT)
- (D) EXISTING GROUND
- (E) EXISTING PCC SIDEWALK (SPOT REMOVAL AND REPLACEMENT)
- (F) EXISTING BIKE PATH
- (G) AGGREGATE SHOULDERS



HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"



REMOVAL ITEM

PROPOSED TYPICAL SECTION

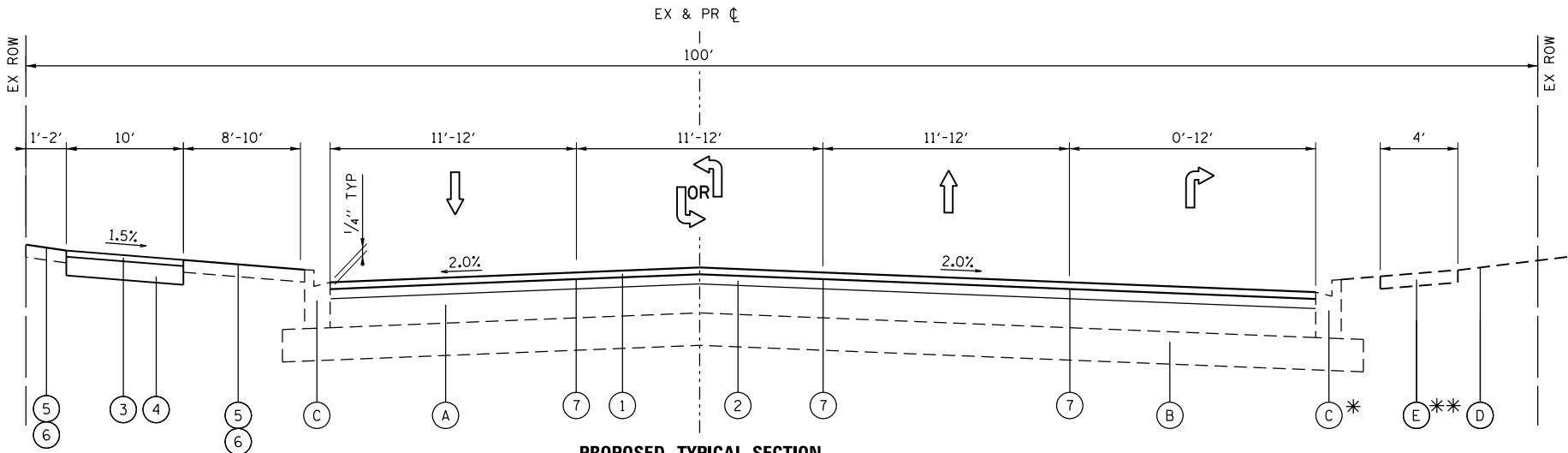
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 2"
- (4) SUBBASE GRANULAR MATERIAL, TYPE B; 6"
- (5) SEEDING, CLASS 1A EROSION CONTROL BLANKET
- (6) FURNISH AND PLACE TOPSOIL, 4"
- (7) LONGITUDINAL JOINT SEALANT
- (8) OMITTED
- (9) AGGREGATE SHOULDERS, TYPE B (CA-6 CRUSHED STONE OR CRUSHED AGGREGATE)
- (10) PCC BASE COURSE WIDENING; 6"
- (11) COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- (12) AGGREGATE BASE, TYPE B; 6" (CA-7 WASHED CRUSHED STONE OR AGGREGATE)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
MULTI USE PATH & DRIVEWAYS	
HMA SURFACE COURSE, MIX "D", N50; (IL-9.5mm); 2"	4% @ 50 GYR.
RESURFACING	
HMA SURFACE COURSE, MIX "D", N70; (IL-9.5mm); 1 1/2"	4% @ 70 GYR.
HMA BINDER COURSE, N70 (IL-19.0mm); 2 1/4"	4% @ 70 GYR.
PATCHING	
HMA BINDER COURSE, N70 (IL-19.0mm); 6"	4% @ 70 GYR.

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/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 SPECIAL PROVISIONS.

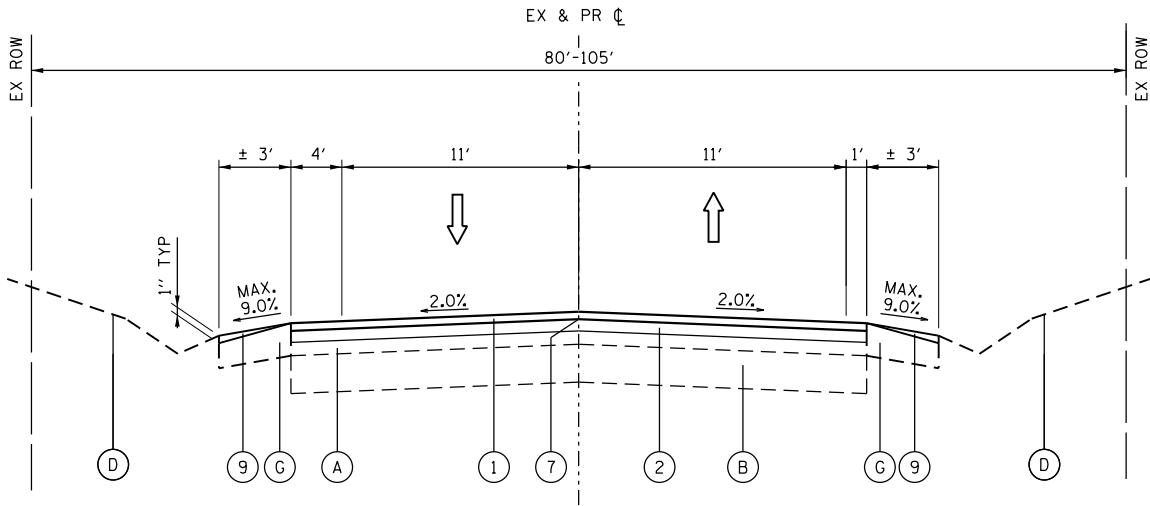


PROPOSED TYPICAL SECTION

THREE OAKS ROAD
STA. 171+75 (EAST OF NIGHTHAWK WAY) TO STA. 189+33.06 (SOUTH RAWSON BRIDGE ROAD)

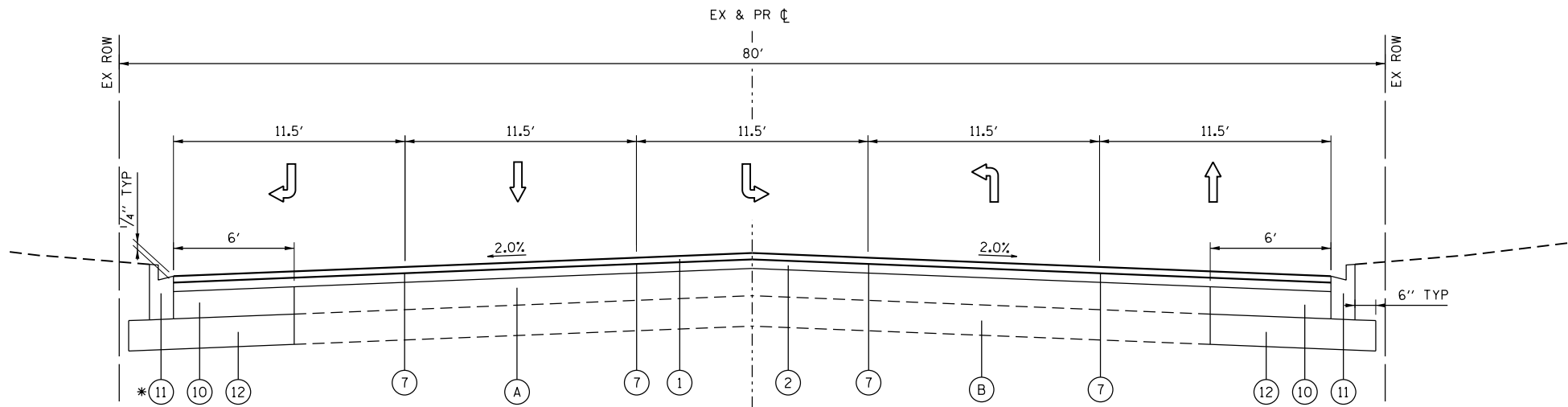
* NOTE: AGGREGATE SHOULDER FROM STA. 177+36 TO STA. 183+54

** NOTE: PROPOSED SIDEWALK EXTENSION FROM STA. 188+15 TO STA. 190+33.06



PROPOSED TYPICAL SECTION

SOUTH RAWSON BRIDGE ROAD
STA. 190+33.06 TO STA. 203+93.50



PROPOSED TYPICAL SECTION

FIRST STREET
STA. 500+00.00 TO STA. 504+82.03

PROP. CURVE PROAKS-1
Δ = 1° 24' 16" (LT)
D = 0° 33' 20"
R = 10,315.74'
T = 126.44'
L = 252.86'
E = 0.77'
e = _____
P.C. STA. = 109+47.05
N: 2022564.28
E: 1007717.06
PI STA. = 110+73.49
N: 2022570.29
E: 1007843.35
P.T. STA. = 111+99.91
N: 2022579.40
E: 1007969.46

PROP. CURVE PROAKS-2
Δ = 4° 31' 17" (RT)
D = 1° 22' 14"
R = 4,180.46'
T = 165.04'
L = 329.90'
E = 3.26'
e = _____
P.C. STA. = 130+49.53
N: 2022712.66
E: 1009814.27
PI STA. = 132+14.57
N: 2022724.55
E: 1009978.88
P.T. STA. = 133+79.43
N: 2022723.43
E: 1010143.91

PROP. CURVE PR1STST-1
Δ = 23° 49' 41" (RT)
D = 20° 50' 05"
R = 275.00'
T = 58.02'
L = 114.37'
E = 6.05'
e = _____
P.C. STA. = 504+96.79
N: 2023218.63
E: 1010037.30
PI STA. = 505+54.81
N: 2023276.59
E: 1010039.92
P.T. STA. = 506+11.15
N: 2023328.56
E: 1010065.73

BENCHMARK "1"

BM1: TAG BOLT ON TOP FLANGE OF HYDRANT LOCATED APPROXIMATELY 200 FEET WEST OF RAWSON BRIDGE ROAD AND ON THE SOUTH SIDE OF THREE OAKS ROAD.
ELEVATION: 876.59 (NAVD 88).

BENCHMARK "3"

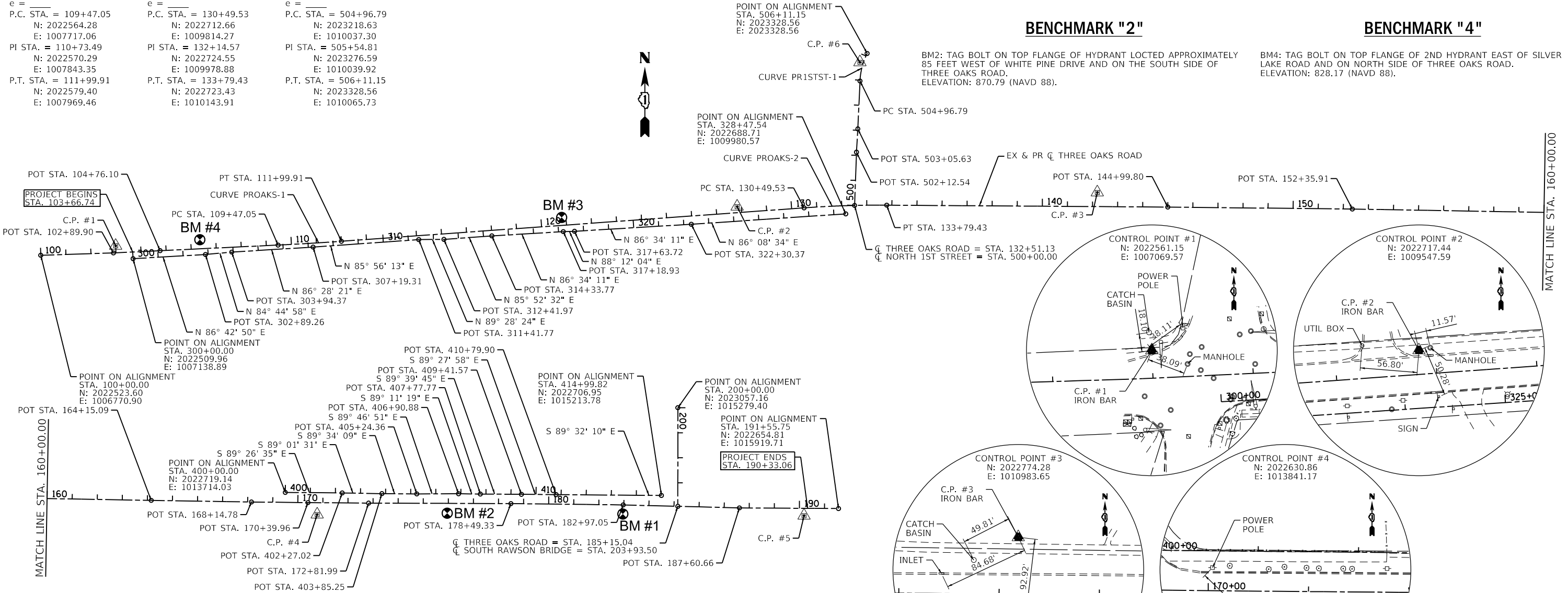
BM3: MUELLER BOLT ON TOP FLANGE OF HYDRANT LOCATED AT THE NORTHWEST CORNER OF THREE OAKS ROAD AND ELDEN DRIVE.
ELEVATION: 863.44 (NAVD 88).

BENCHMARK "2"

BM2: TAG BOLT ON TOP FLANGE OF HYDRANT LOCTED APPROXIMATELY 85 FEET WEST OF WHITE PINE DRIVE AND ON THE SOUTH SIDE OF THREE OAKS ROAD.
ELEVATION: 870.79 (NAVD 88).

BENCHMARK "4"

BM4: TAG BOLT ON TOP FLANGE OF 2ND HYDRANT EAST OF SILVER LAKE ROAD AND ON NORTH SIDE OF THREE OAKS ROAD.
ELEVATION: 828.17 (NAVD 88).



ALIGNMENT COORDINATES - THREE OAKS ROAD			
	STATION	N	E
POB	100+00.00	2,022,523.60	1,006,770.90
PI	102+89.90	2,022,532.89	1,007,060.66
PI	104+76.10	2,022,541.87	1,007,246.63
PC	109+47.05	2,022,564.28	1,007,717.06
PI	110+73.49	2,022,570.29	1,007,843.35
PT	111+99.91	2,022,579.40	1,007,969.46
PC	130+49.53	2,022,712.66	1,009,814.27
PI	132+14.57	2,022,724.55	1,009,978.88
PT	133+79.43	2,022,723.43	1,010,143.91
PI	144+99.80	2,022,715.80	1,011,264.25
PI	152+35.91	2,022,707.95	1,012,000.32
PI	164+15.09	2,022,687.39	1,013,179.32
PI	168+14.78	2,022,680.94	1,013,578.96
PI	170+39.96	2,022,678.44	1,013,804.12
PI	172+81.99	2,022,676.47	1,014,046.15
PI	178+49.33	2,022,674.49	1,014,613.48
PI	182+97.05	2,022,669.26	1,015,061.17
PI	187+60.66	2,022,657.34	1,015,524.63
POT	191+55.75	2,022,654.81	1,015,919.71

ALIGNMENT COORDINATES - BIKE PATH SOUTH			
	STATION	N	E
POB	300+00.00	2,022,509.96	1,007,138.89
PI	302+89.26	2,022,526.54	1,007,427.68
PI	303+94.37	2,022,536.16	1,007,532.35
PI	307+19.31	2,022,556.15	1,007,856.67
PI	311+41.77	2,022,586.08	1,008,278.07
PI	312+41.97	2,022,587.01	1,008,378.26
PI	314+33.77	2,022,600.80	1,008,569.56
PI	317+18.93	2,022,617.86	1,008,854.22
PI	317+63.72	2,022,619.27	1,008,898.99
PI	322+30.37	2,022,647.19	1,009,364.80
POT	328+47.54	2,022,688.71	1,009,980.57

ALIGNMENT COORDINATES - RAWSON BRIDGE ROAD			
	STATION	N	E
POB	200+00.00	2,023,057.16	1,015,279.40
POT	203+93.50	2,022,663.65	1,015,279.09

ALIGNMENT COORDINATES - BIKE PATH NORTH			
	STATION	N	E
POB	400+00.00	2,022,719.14	1,013,714.03
PI	402+27.02	2,022,716.94	1,013,941.04
PI	403+85.25	2,022,714.25	1,014,099.24
PI	405+24.36	2,022,713.20	1,014,238.35
PI	406+90.88	2,022,713.84	1,014,404.87
PI	407+77.77	2,022,712.61	1,014,491.75
PI	409+41.57	2,022,711.64	1,014,655.55
PI	410+79.90	2,022,710.35	1,014,793.88
POT	414+99.82	2,022,706.95	1,015,213.78

ALIGNMENT COORDINATES - 1ST STREET			
	STATION	N	E
POB	500+00.00	2,022,722.33	1,010,015.62
PI	502+12.54	2,022,934.73	1,010,023.26
PI	503+05.63	2,023,027.66	1,010,028.68
PC	506+11.15	2,023,218.63	1,010,037.30
PI	505+54.81	2,023,276.59	1,010,039.92
POT/PT	506+11.15	2,023,328.56	1,010,065.73

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
THREE OAKS ROAD & SOUTH RAWSON BRIDGE ROAD

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	10
CONTRACT NO.				61F42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

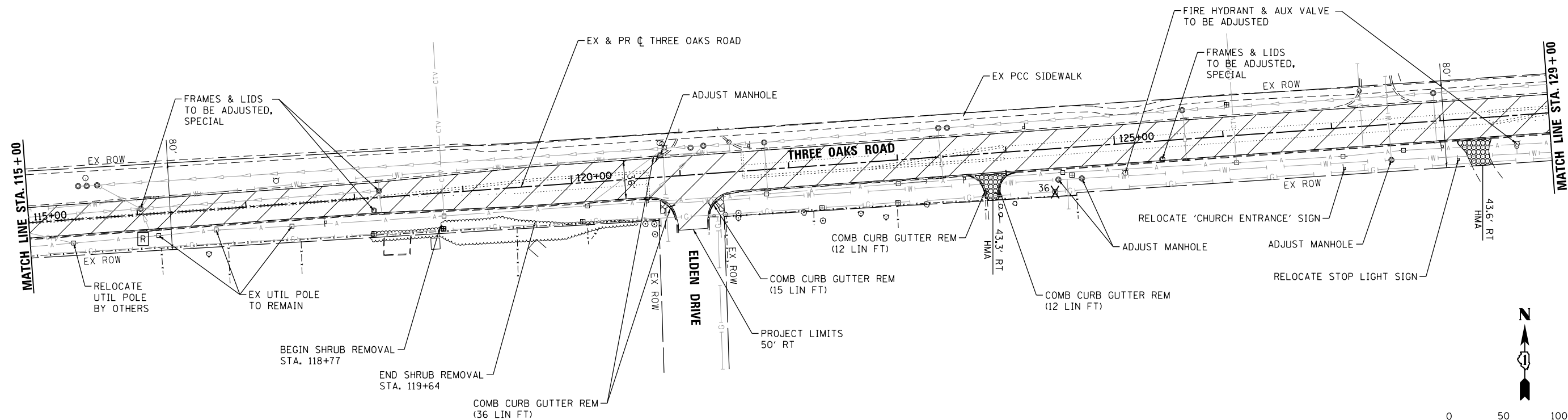
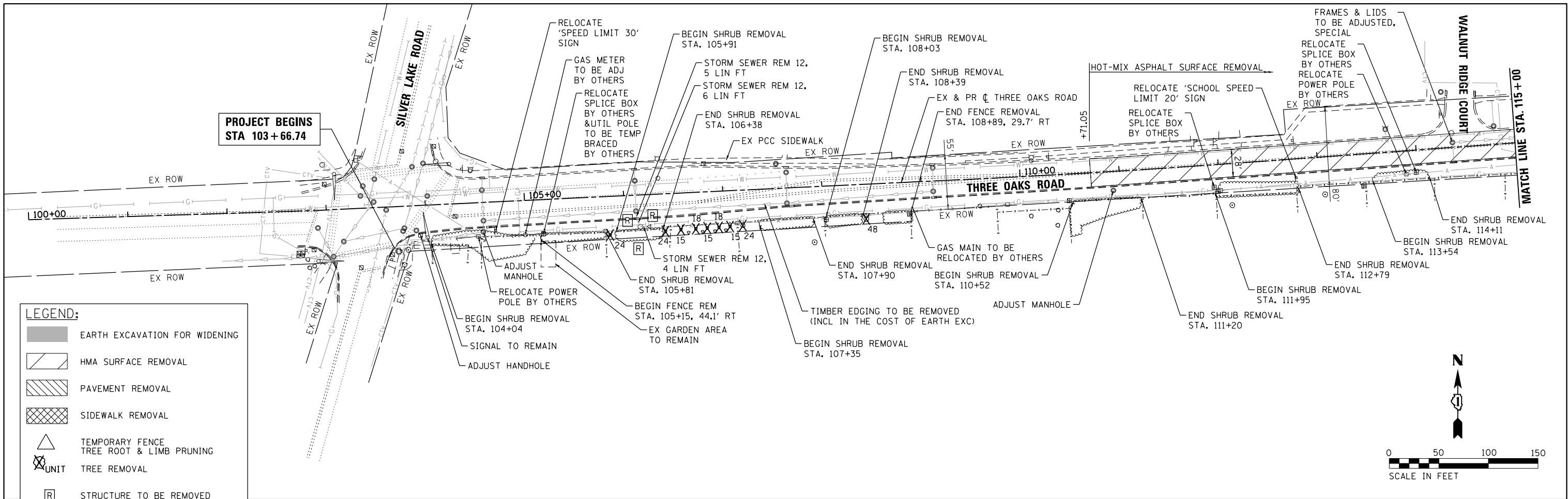
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PROJECT CONTACT: J. J. J. J.
DATE PLOTTED: 11/12/2018 3:10:13 PM
FILE NAME: 257-shr-ATB.dgn
PLOT DRIVER: ILpdf.dwt
PEN TABLE: plot.tbl



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FILE NAME = 257-shr-ATB.dgn
PLOT SCALE = N.T.S.
PLOT DATE = 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

REVISED -
REVISED -
REVISED -
REVISED -



COMPANY NAME: HRGreen.com
PROJECT CONTACT: J. J. S.
DATE PLOTTED: 11/12/2018 3:12:17 PM
FILE NAME: 257-str-rem.01.dgn
PLOT DRIVER: ILpdf.dwg
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

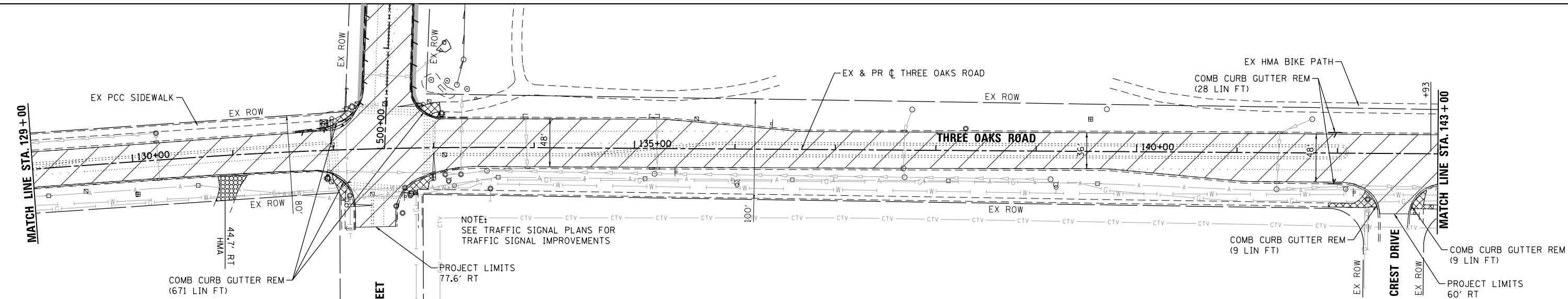
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PLOT SCALE = 1" = 50'	CHECKED - AC	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
THREE OAKS ROAD

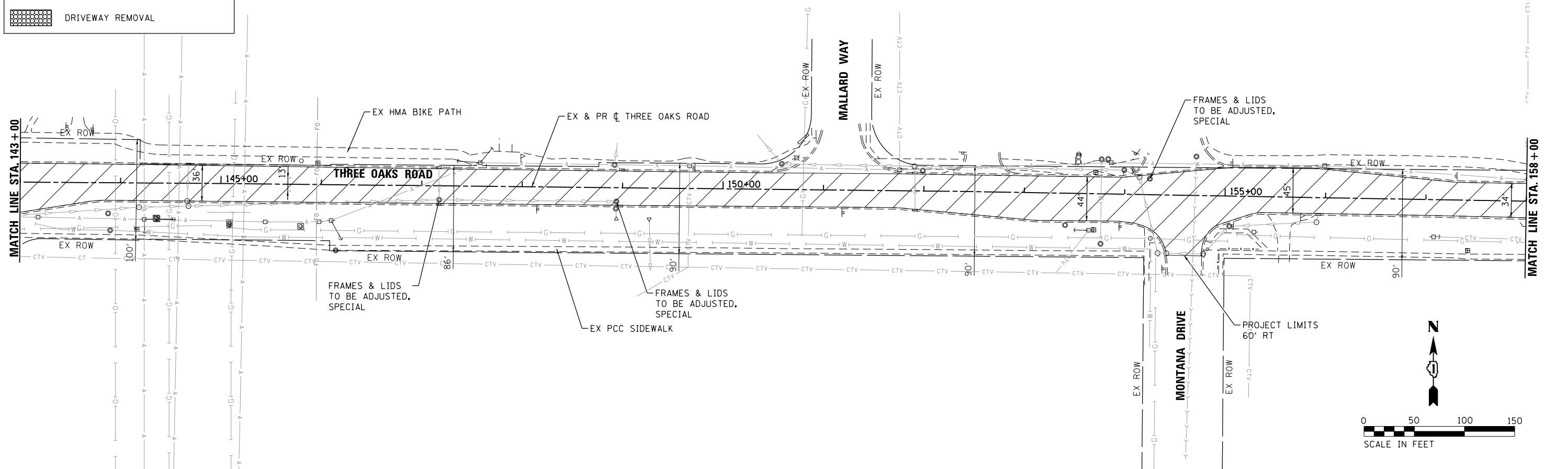
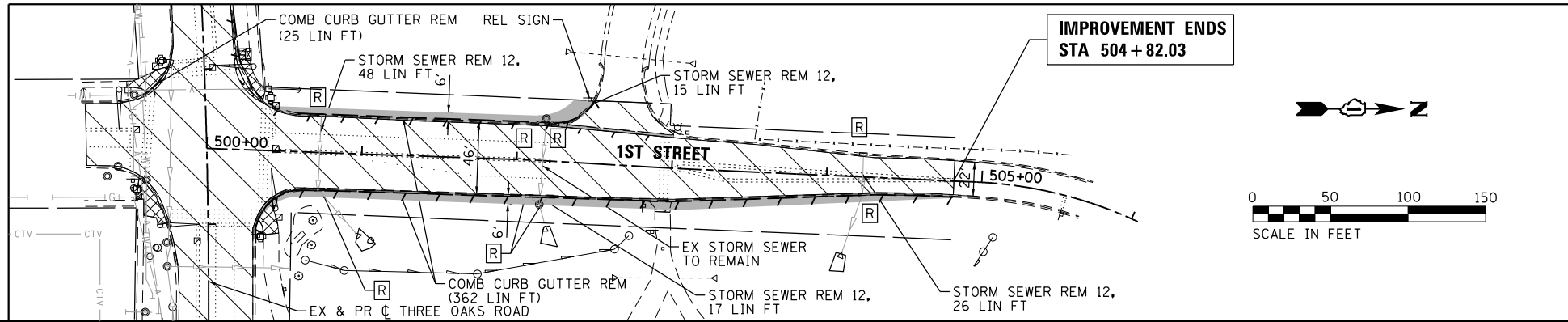
SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. 103+66.74 TO STA. 129+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	11
CONTRACT NO.				61F42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND:

- EARTH EXCAVATION FOR WIDENING
- HMA SURFACE REMOVAL
- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- TEMPORARY FENCE
- TREE ROOT & LIMB PRUNING
- TREE REMOVAL
- STRUCTURE TO BE REMOVED
- COMB CURB & GUTTER REMOVAL
- DRIVEWAY REMOVAL



COMPANY NAME: HRGreen
PROJECT CONTACT: J. J. S. J. S.
DATE PLOTTED: 11/12/2018 3:10:20 PM
FILE NAME: 257-sht-rem-02.dgn
PLOT DRIVER: ILpdf.dwg
PEN TABLE: plotlabel.tbl



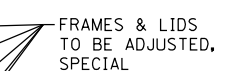
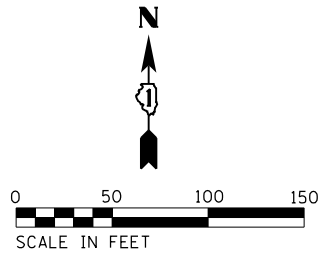
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PLOT SCALE = 1" = 50'	CHECKED - AC	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
THREE OAKS ROAD

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. 129+00.00 TO STA. 157+00.00

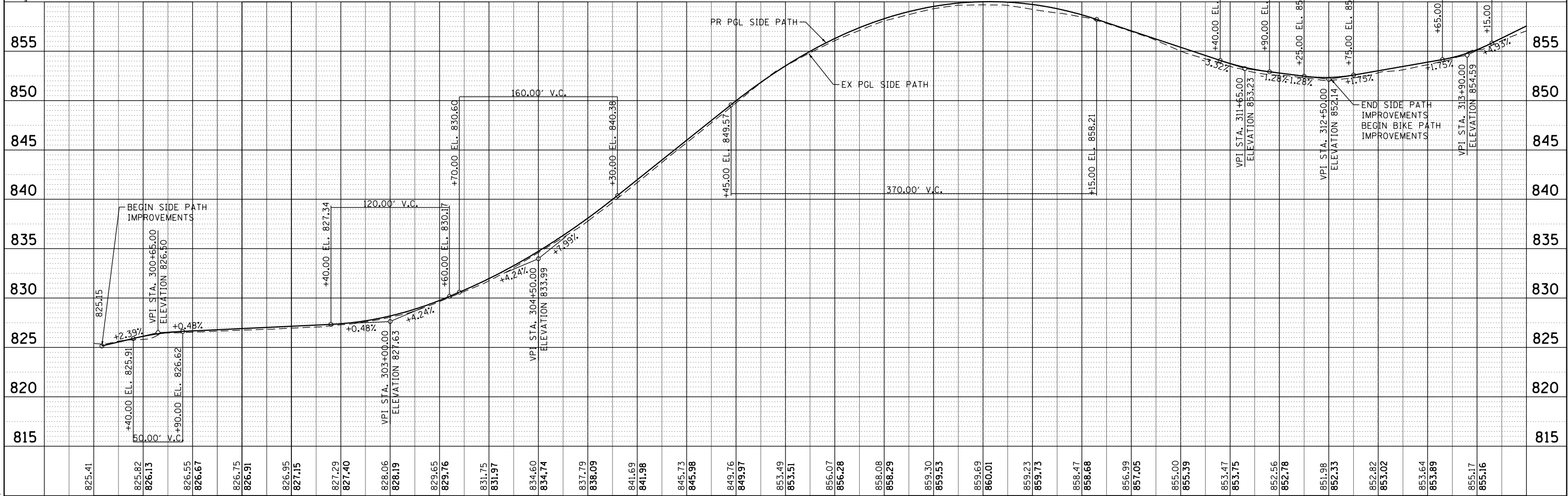
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4051	15-00065-00-R5	MCHENRY	72	12
CONTRACT NO.				61F42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	13
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROFILE		SURVEYED _____		BY _____		DATE _____	
		PLOTTED _____					
NOTE BOOK _____		GRADES CHECKED _____					
NO. _____		B.M. NOTED _____					
		STRUCTURE NOTATIONS CHECKED _____					

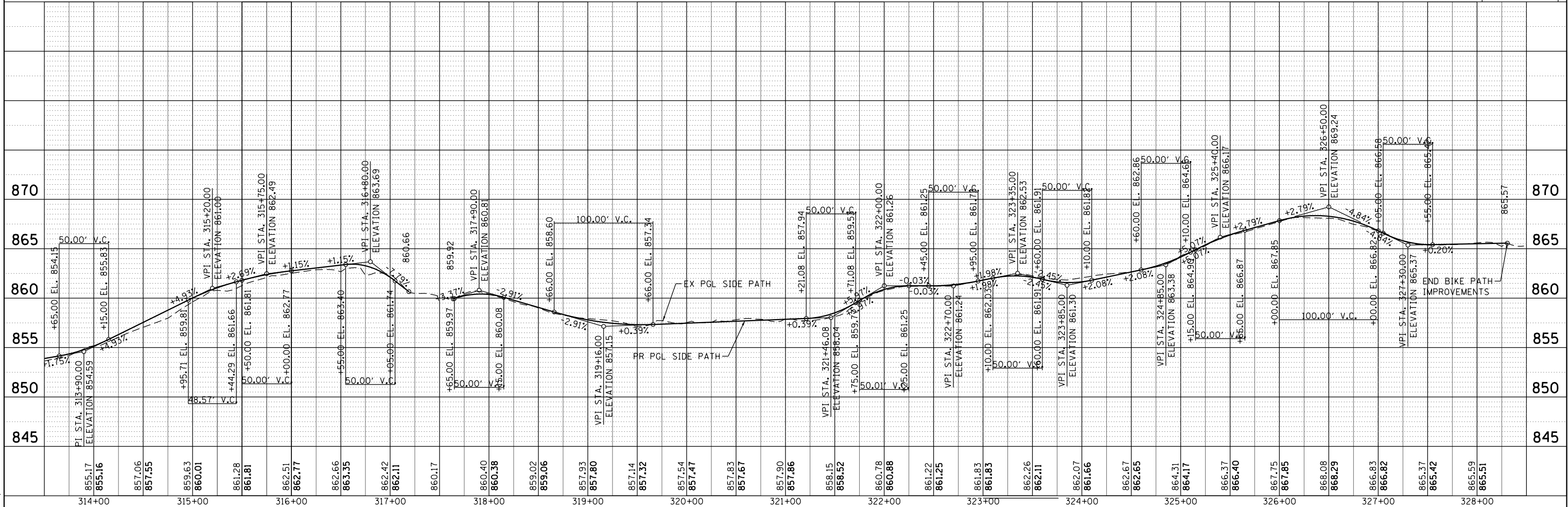
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PROJECT CONTACT: \$PROJECT_CONTACT\$
CLIENT: \$CLIENT\$
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PLOT DRIVER: IL_Pdf.bw.pltcf
PEN TABLE: plotlabel.tbl



300+00		301+00		302+00		303+00		304+00		305+00		306+00		307+00		308+00		309+00		310+00		311+00		312+00		313+00		314+00			
 HRGreen.com Illinois Professional Design Firm # 184-001322 HRGreen	USER NAME = jstrzel			DESIGNED - JJS			REVISED -			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										PLAN AND PROFILE – SOUTH SIDE PATH THREE OAKS ROAD						F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 11/12/2018			DATE - 08/10/18			REVISED -																								

PROFILE		BY	DATE
SURVEYED _____			
PLOTTED _____			
GRADES CHECKED _____			
B.M. NOTED _____			
STRUCTURE NOTATIONS CHECKED _____			

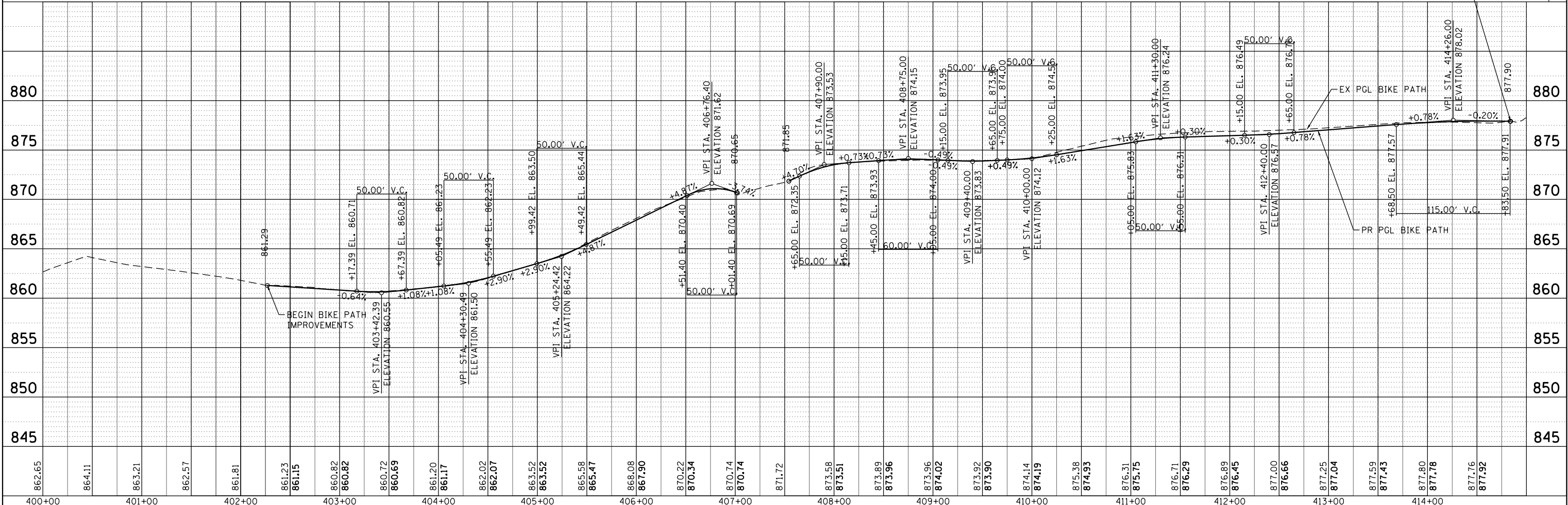
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 PROJECT CONTACT: _____
 CLIENT: _____
 DATE PLOTTED: _____
 FILE NAME: _____
 PLOT DRIVER: _____
 PEN TABLE: _____



 HRGreen HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = jstrzel	DESIGNED - JJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE – SOUTH SIDE PATH THREE OAKS ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 1" = 50'	CHECKED - AC	REVISED -		CONTRACT NO. 61F42							
	PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -		SCALE: 1" = 50'	SHEET NO. 2 OF 3 SHEETS	STA. 314+00.00 TO STA. 328+47.54		ILLINOIS FED. AID PROJECT			

PROFILE		BY	DATE
SURVEYED _____			
PLOTTED _____			
GRADES CHECKED _____			
B.M. NOTED _____			
STRUCTURE NOTATIONS CHECKED _____			

COMPANY NAME: _____
 PROJECT CONTACT: _____
 CLIENT: _____
 DATE PLOTTED: _____
 FILE NAME: _____
 PLOT DRIVER: _____
 PEN TABLE: _____



DESIGNED - JJS	REVISED -
DRAWN - DMS	REVISED -
CHECKED - AC	REVISED -
DATE - 08/10/18	REVISED -

PLAN AND PROFILE – NORTH BIKE PATH THREE OAKS ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	16
		CONTRACT NO. 61F42		
ILLINOIS		FED. AID PROJECT		

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:10:38 PM
FILE NAME: 257-str-eros.01.dgn
PLOT DRIVER: ILpdf.bwpltefg
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
184-001322

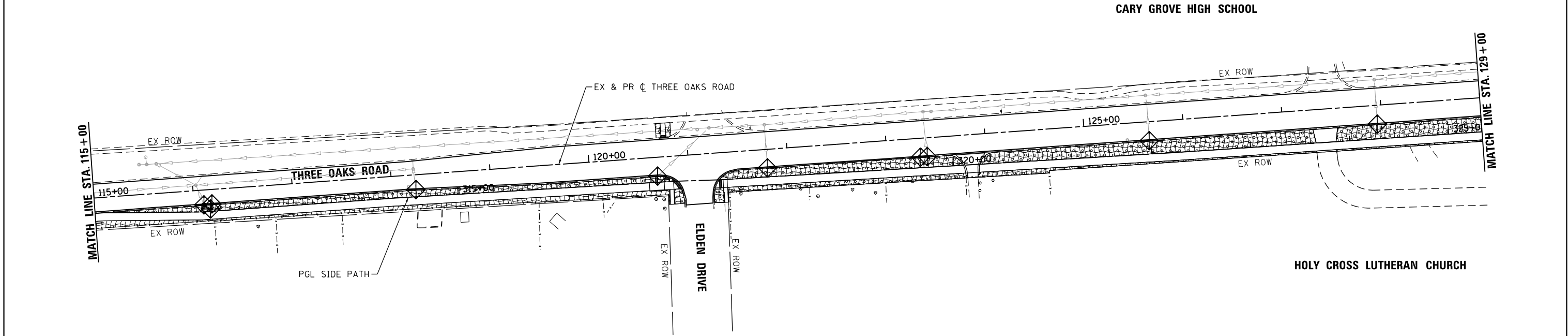
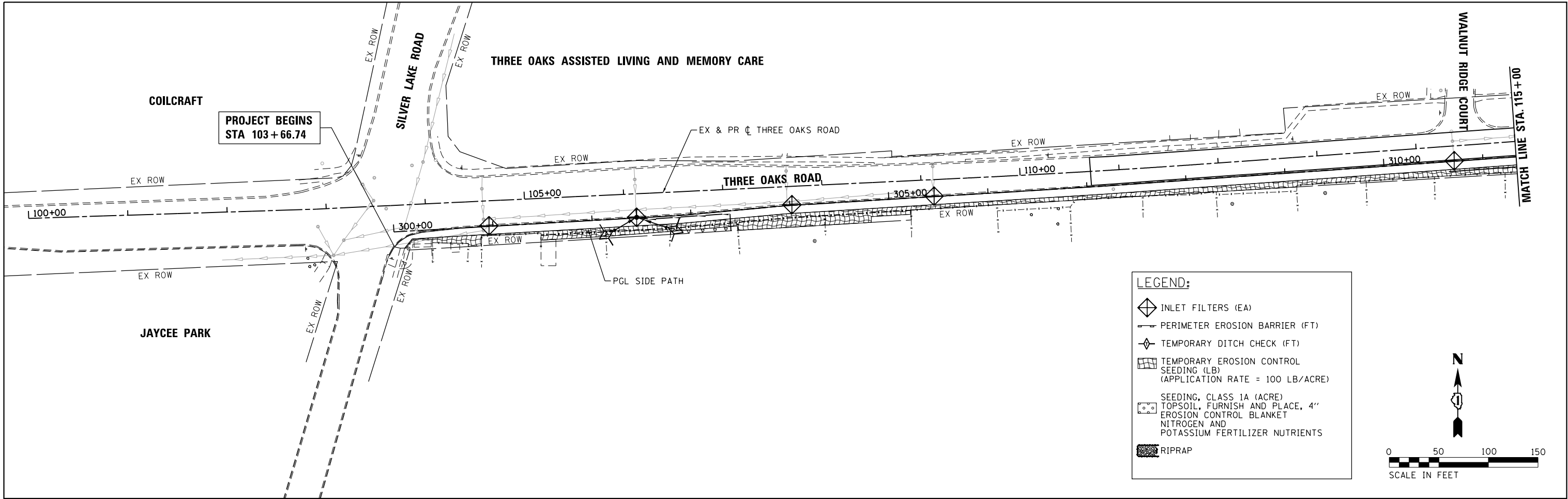
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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND LANDSCAPING PLAN
THREE OAKS ROAD

SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. 103+66.74 TO STA. 129+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	17
CONTRACT NO.				61F42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 11/12/2018 3:19:42 PM
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PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = jstrzel
FILE NAME = 257-sht-eros.02.dgn
PLOT SCALE = 1" = 50'
PLOT DATE = 11/12/2018

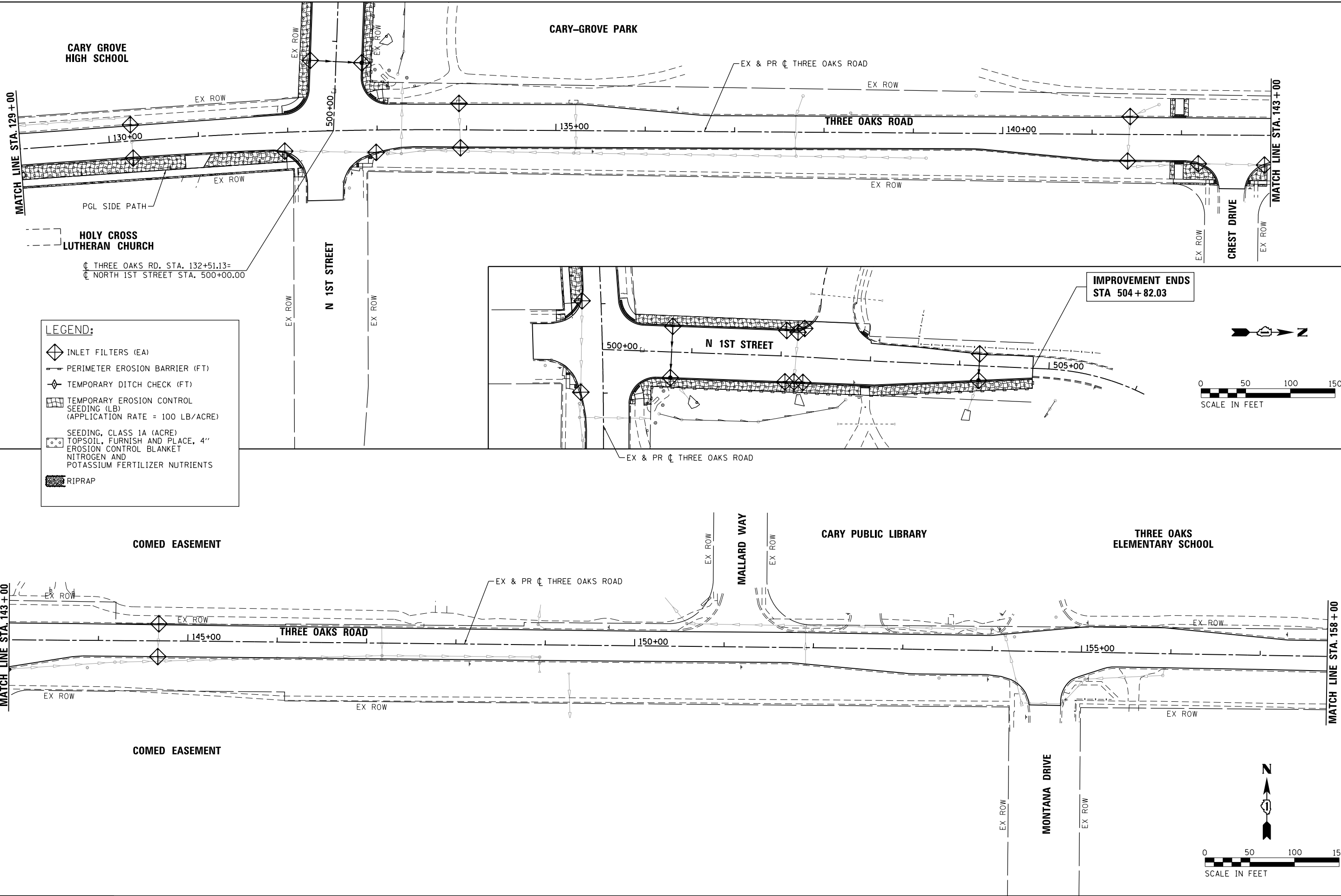
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DRAWN - DMS	REVISED -
CHECKED - AC	REVISED -
DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND LANDSCAPING PLAN
THREE OAKS ROAD

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. 129+00.00 TO STA. 157+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	18
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:24:46 PM
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PLOT DRIVER: ILpdf.dwt
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

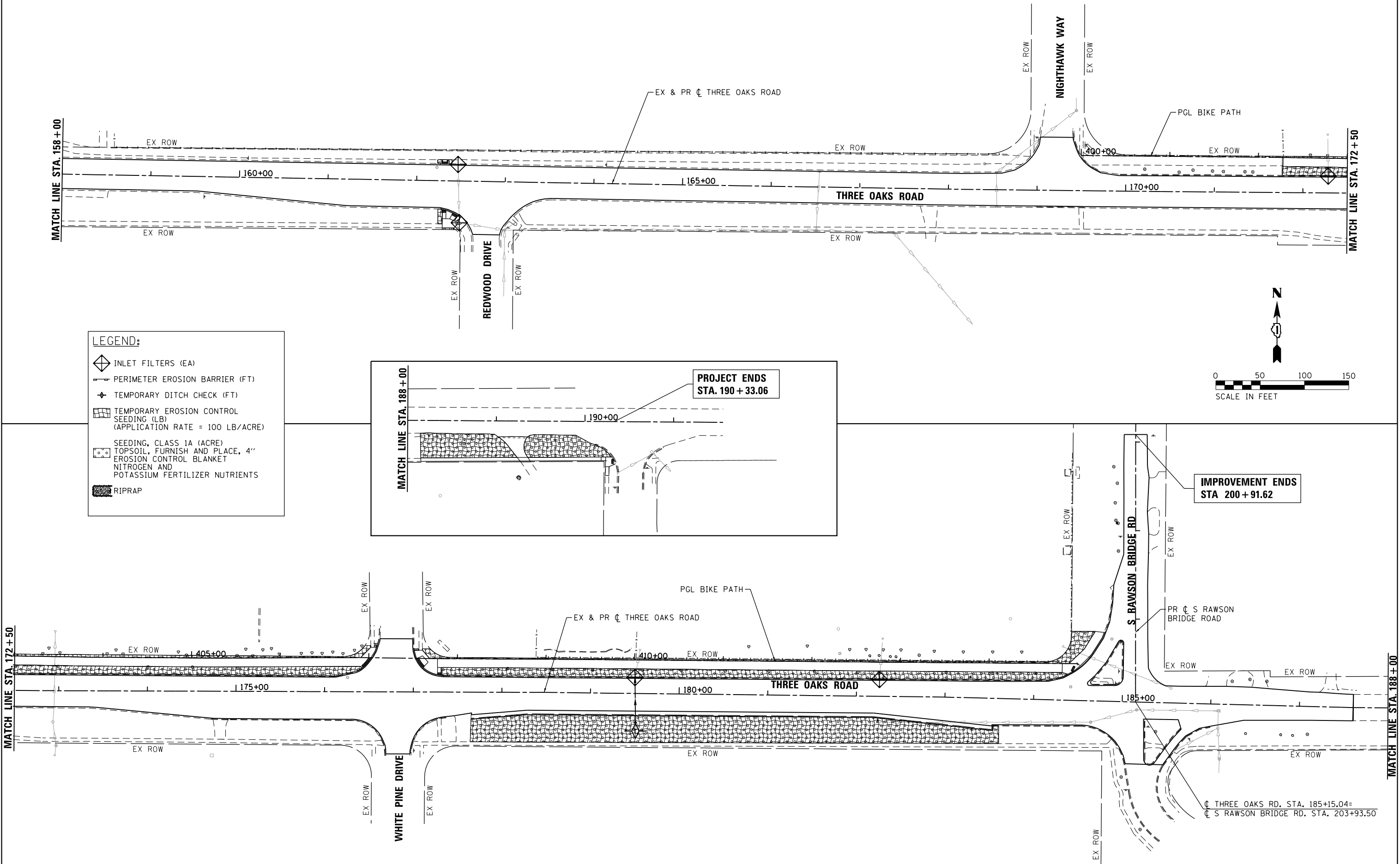
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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

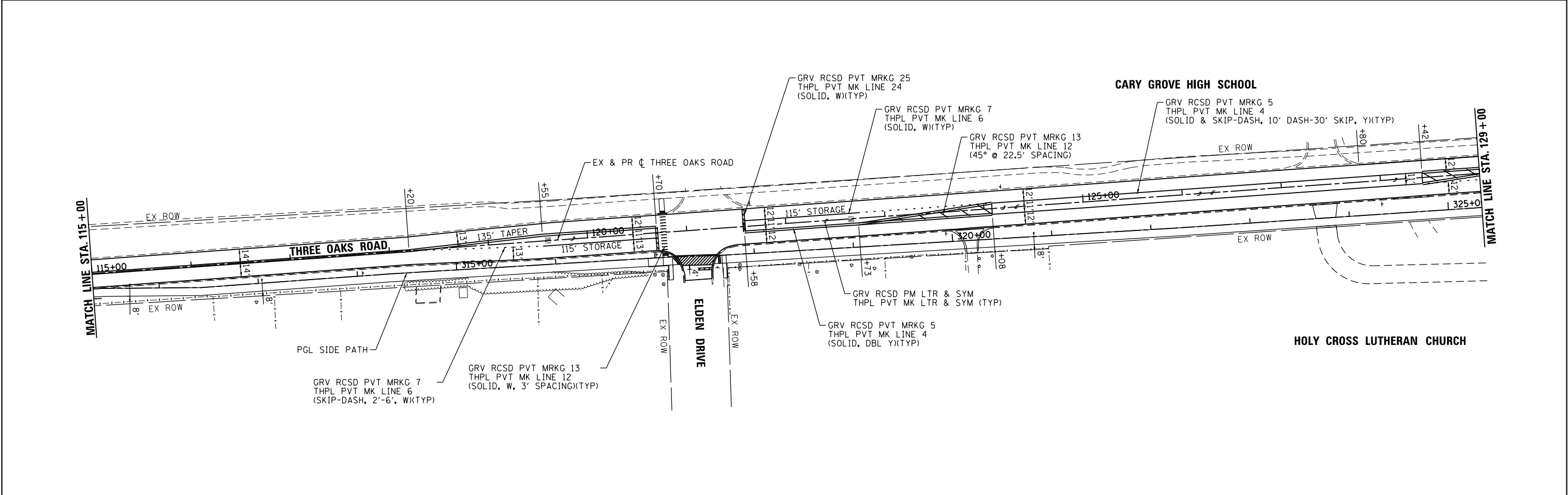
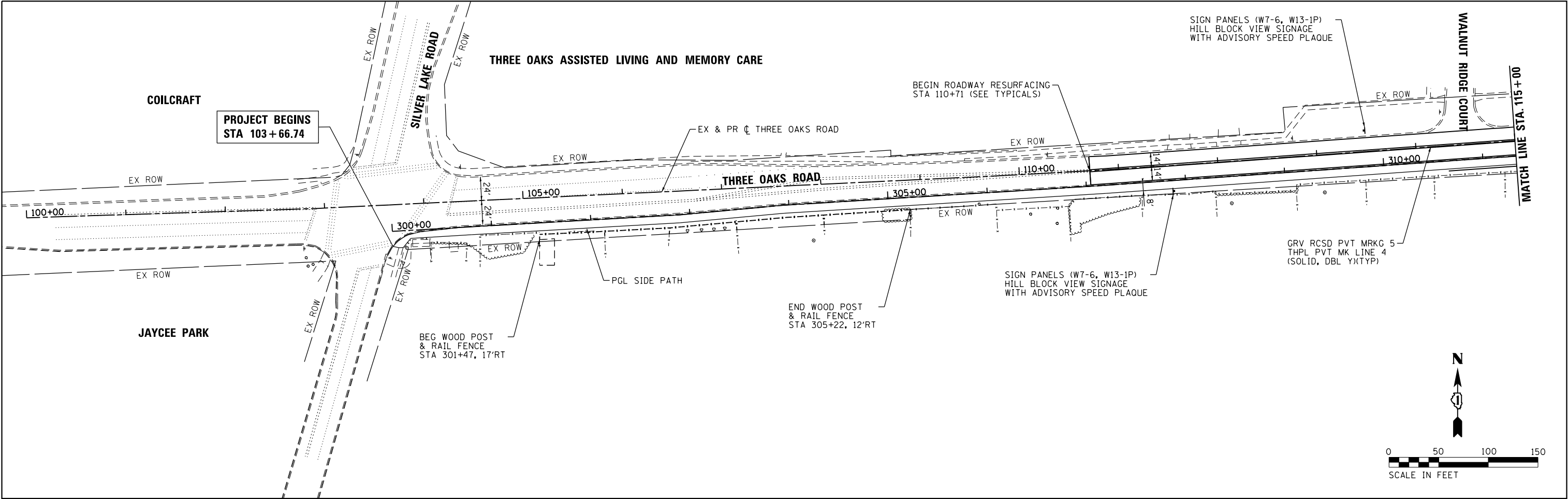
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND LANDSCAPING PLAN
THREE OAKS ROAD

SCALE: 1" = 50' SHEET NO. 3 OF 3 SHEETS STA. 157+00.00 TO STA. 190+33.06

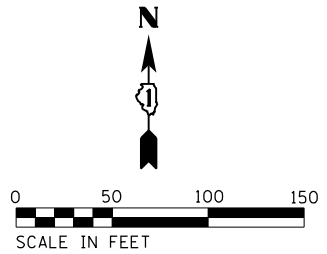
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CONTRACT NO.			61F42	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:05:11 PM
FILE NAME: 257-str-pmk_01.dgn
PLOT DRIVER: ILpdf.bwpltefg
PEN TABLE: plotlabel.tbl

	HRGreen.com		USER NAME = jstrzel	DESIGNED - JJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN THREE OAKS ROAD				RTE.	SECTION	COUNTY	SHEETS	NO.
	Illinois Professional Design Firm #184-001322		FILE NAME = 257-sht-pmk_01.dgn	DRAWN - DMS	REVISED -		4051	15-00065-00-R5	MCHENRY	72	20				
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	PLOT DATE = 11/12/2018		DATE - 08/10/18	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										
		SCALE: 1" = 50'			SHEET NO. 1 OF 3 SHEETS		STA. 103+66.74 TO STA. 129+00.00								



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	22
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

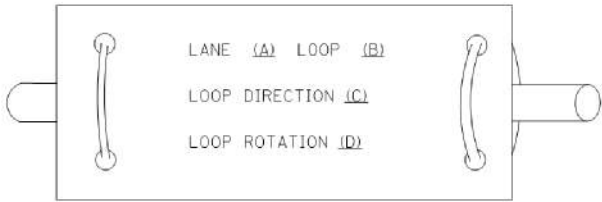
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 61F42		
ILLINOIS FED. AID PROJECT				

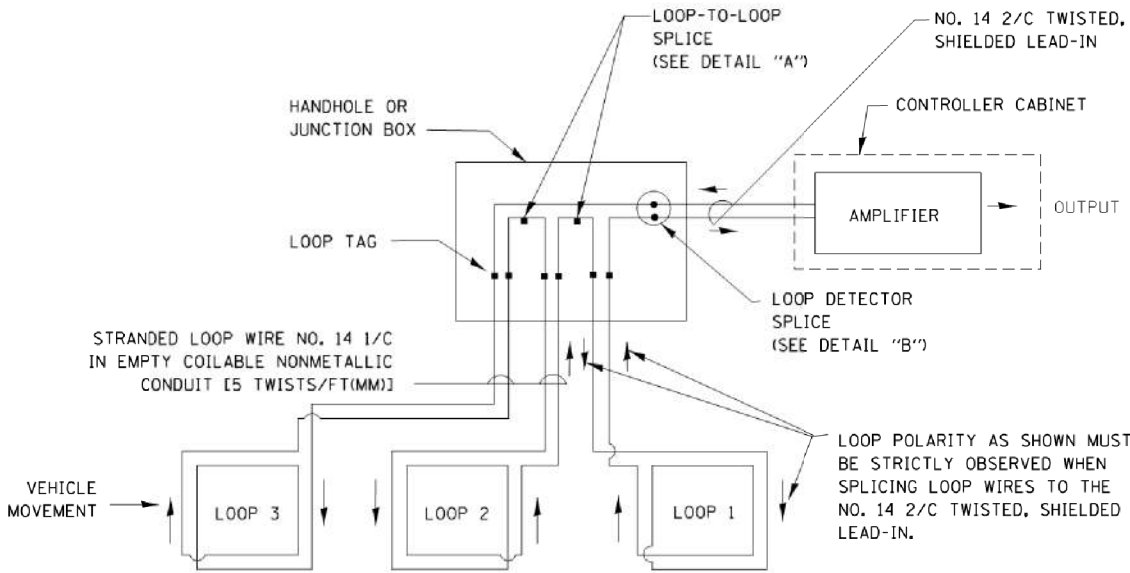
LOOP DETECTOR NOTES

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

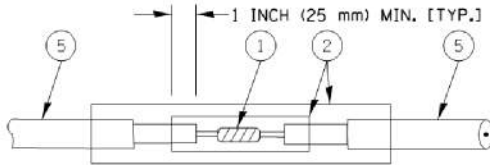


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

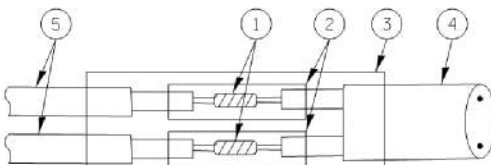


DETECTOR LOOP WIRING SCHEMATIC

- 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.

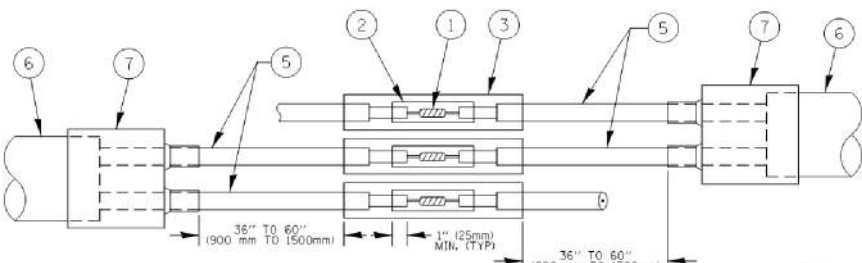


DETAIL "A"
LOOP-TO-LOOP SPLICE

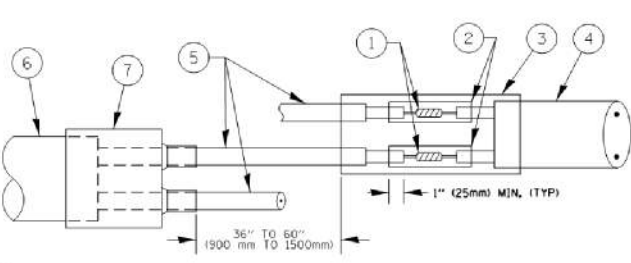


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

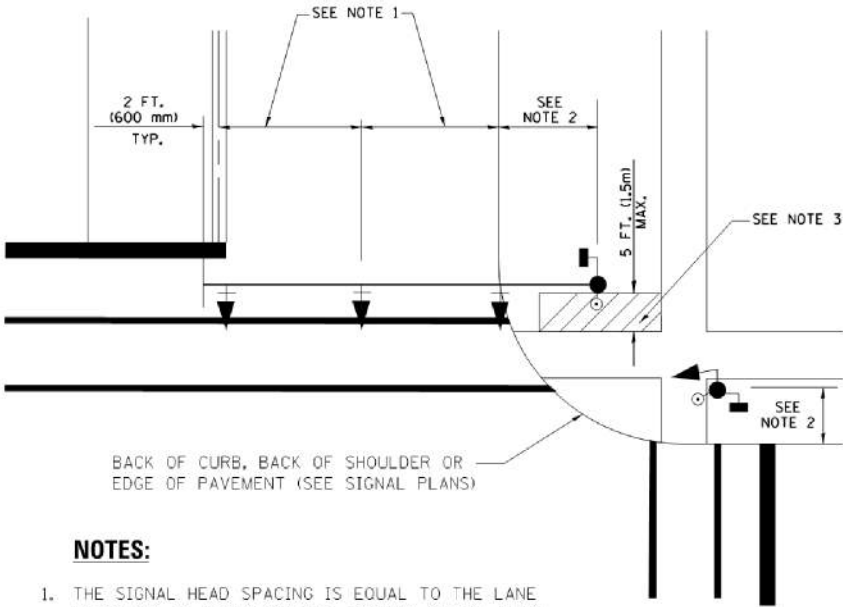
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TS-05		CONTRACT NO.	61F42	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

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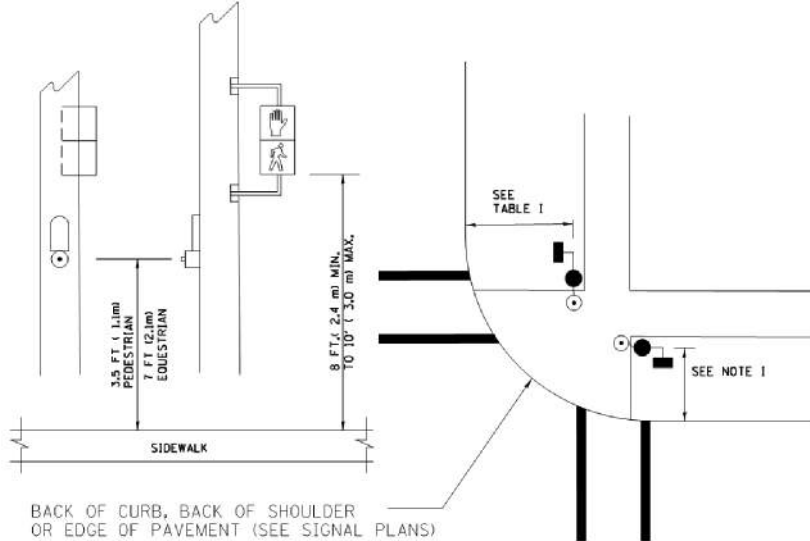
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

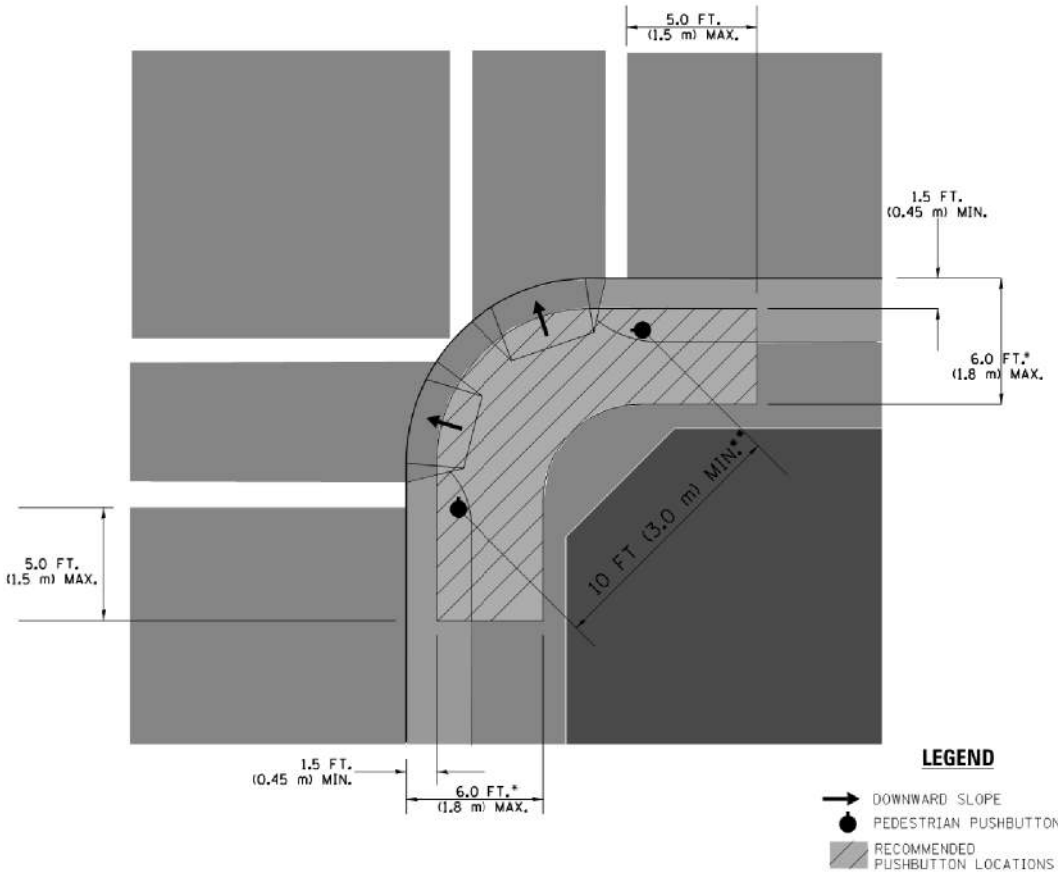
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



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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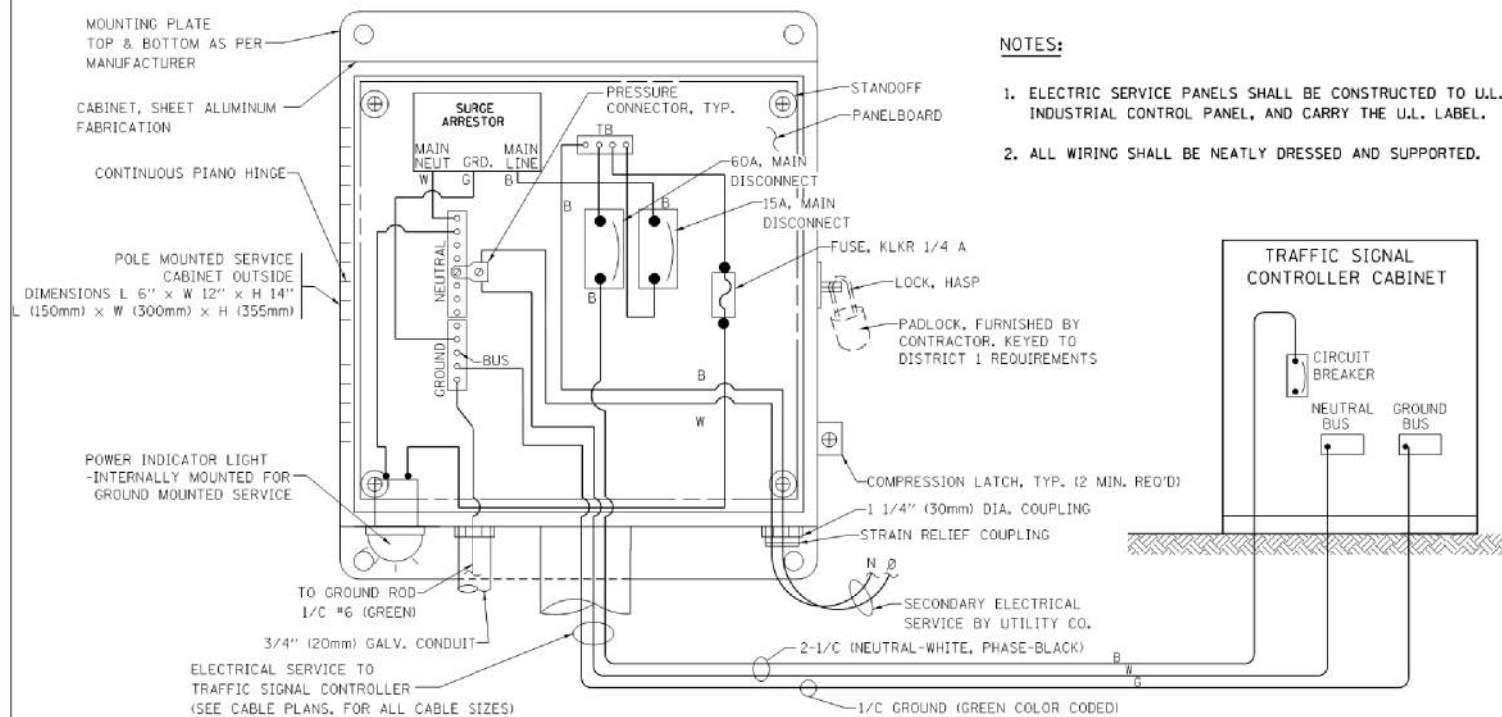
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

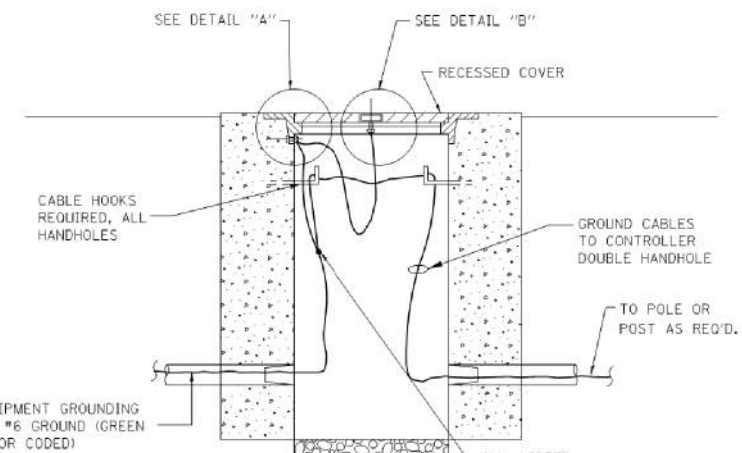
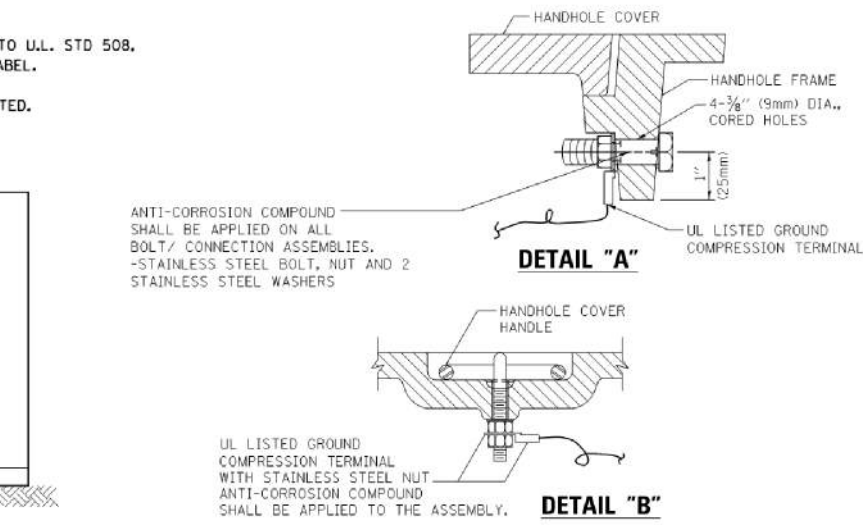
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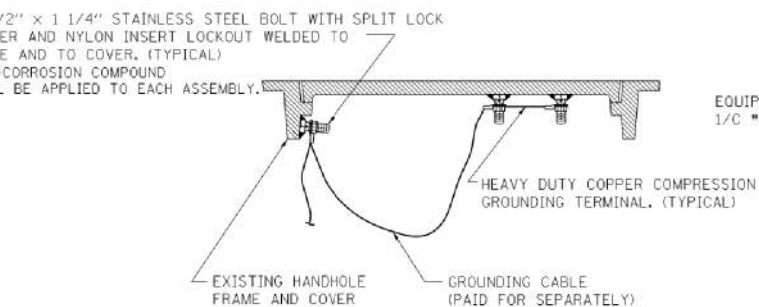
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4051	15-00065-00-RS	MCHENRY	72	25
TS-05		CONTRACT NO. 61F42		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



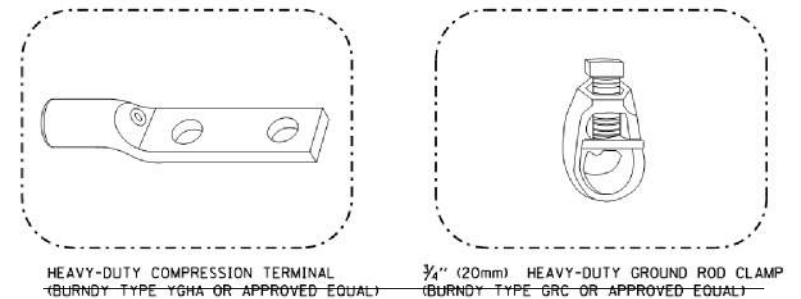
HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)



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

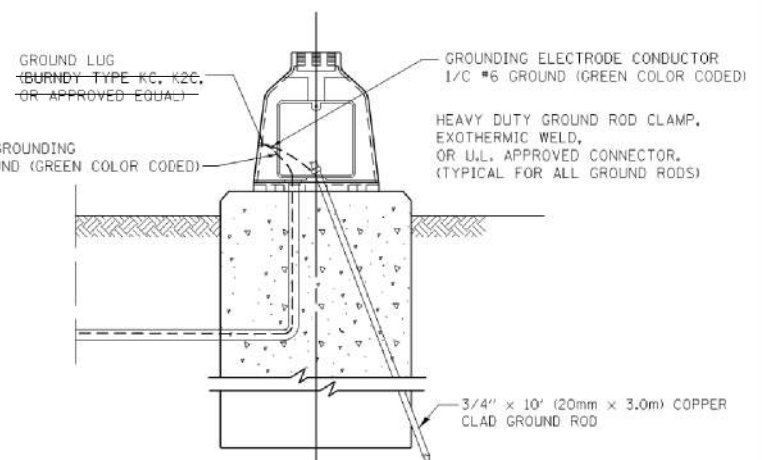
NOTES:
GROUNDING SYSTEM

- 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.

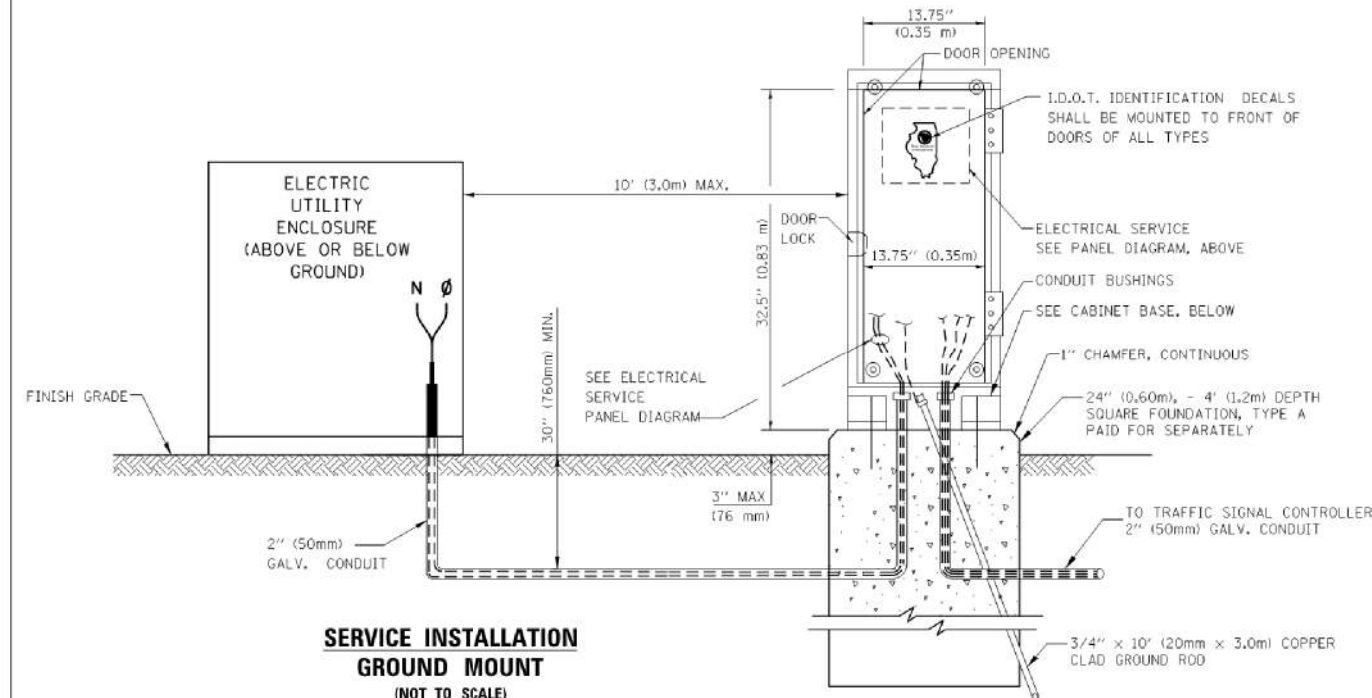


NOTES:

- 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.



MAST ARM POLE / POST-GROUNDING DETAIL
(NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

CABINET - BASE BOLT PATTERN
(NOT TO SCALE)

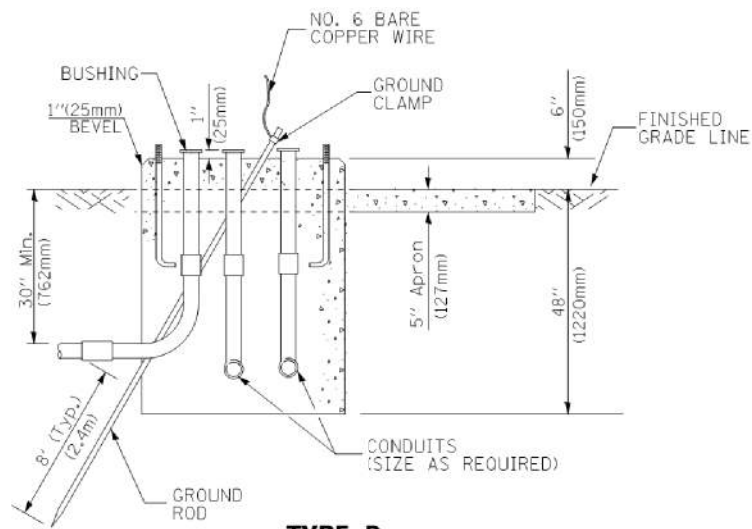
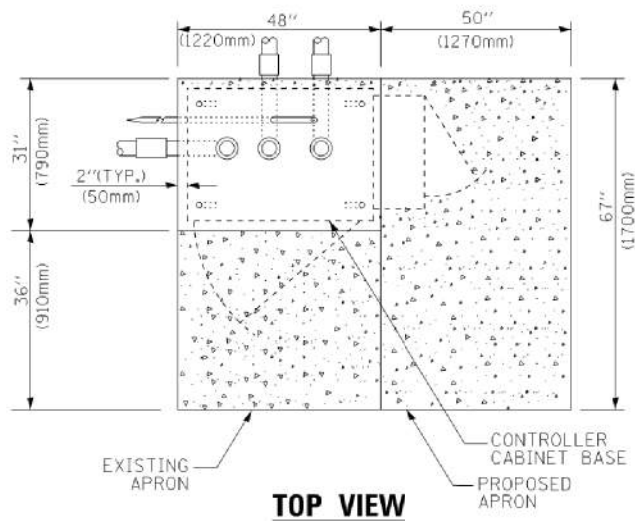
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

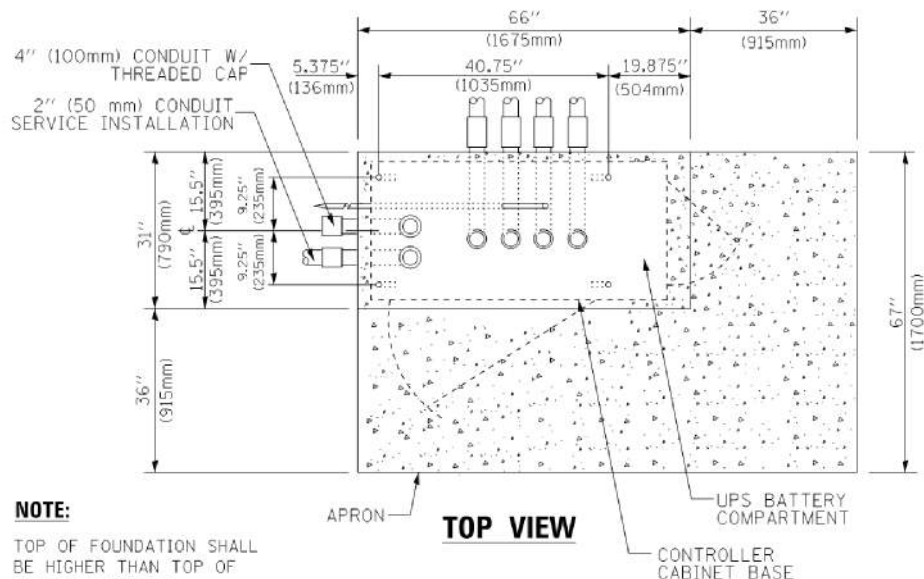
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 61F42		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

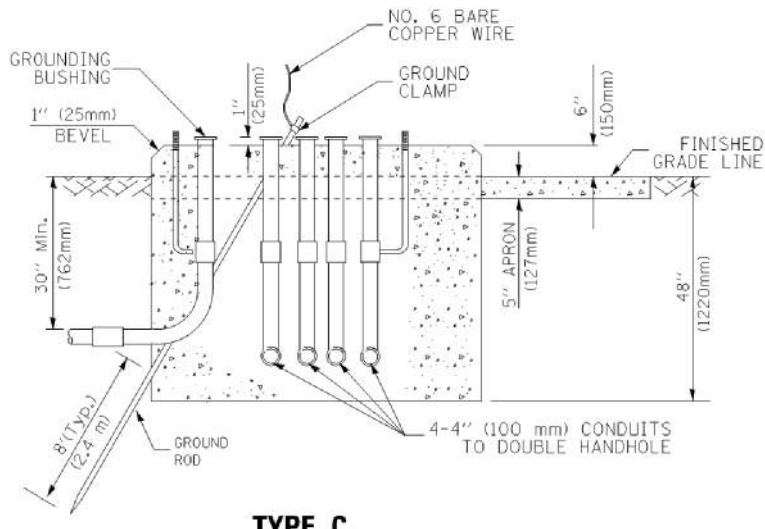
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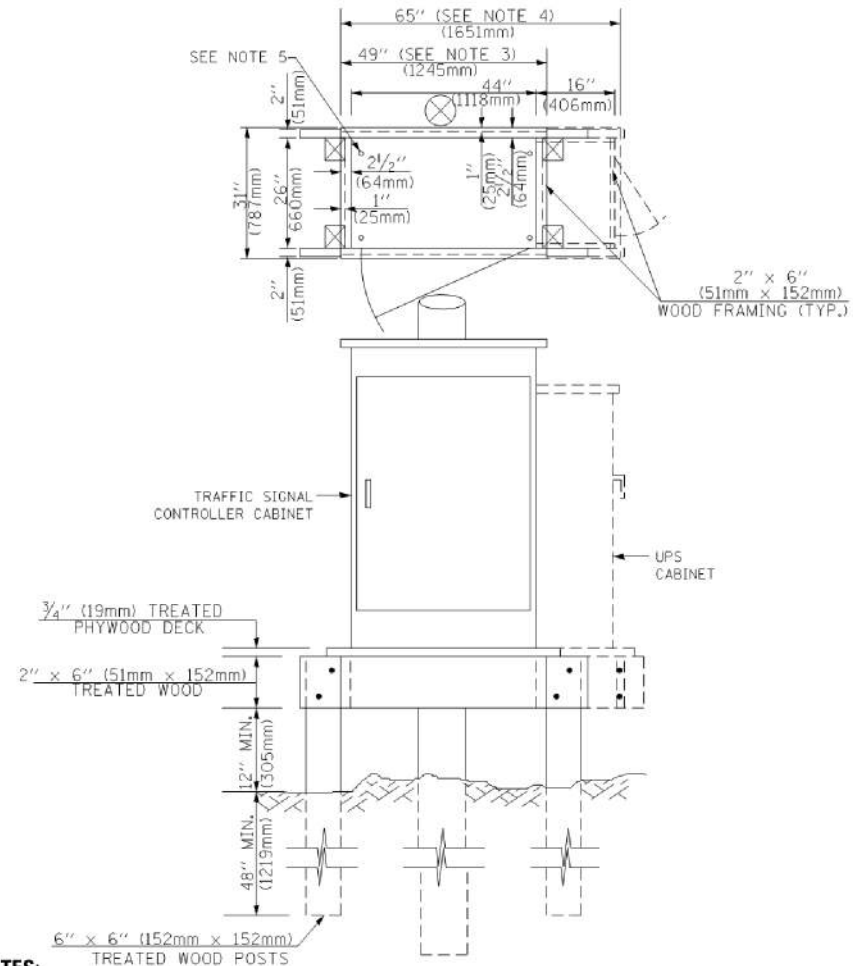
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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 up to 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)

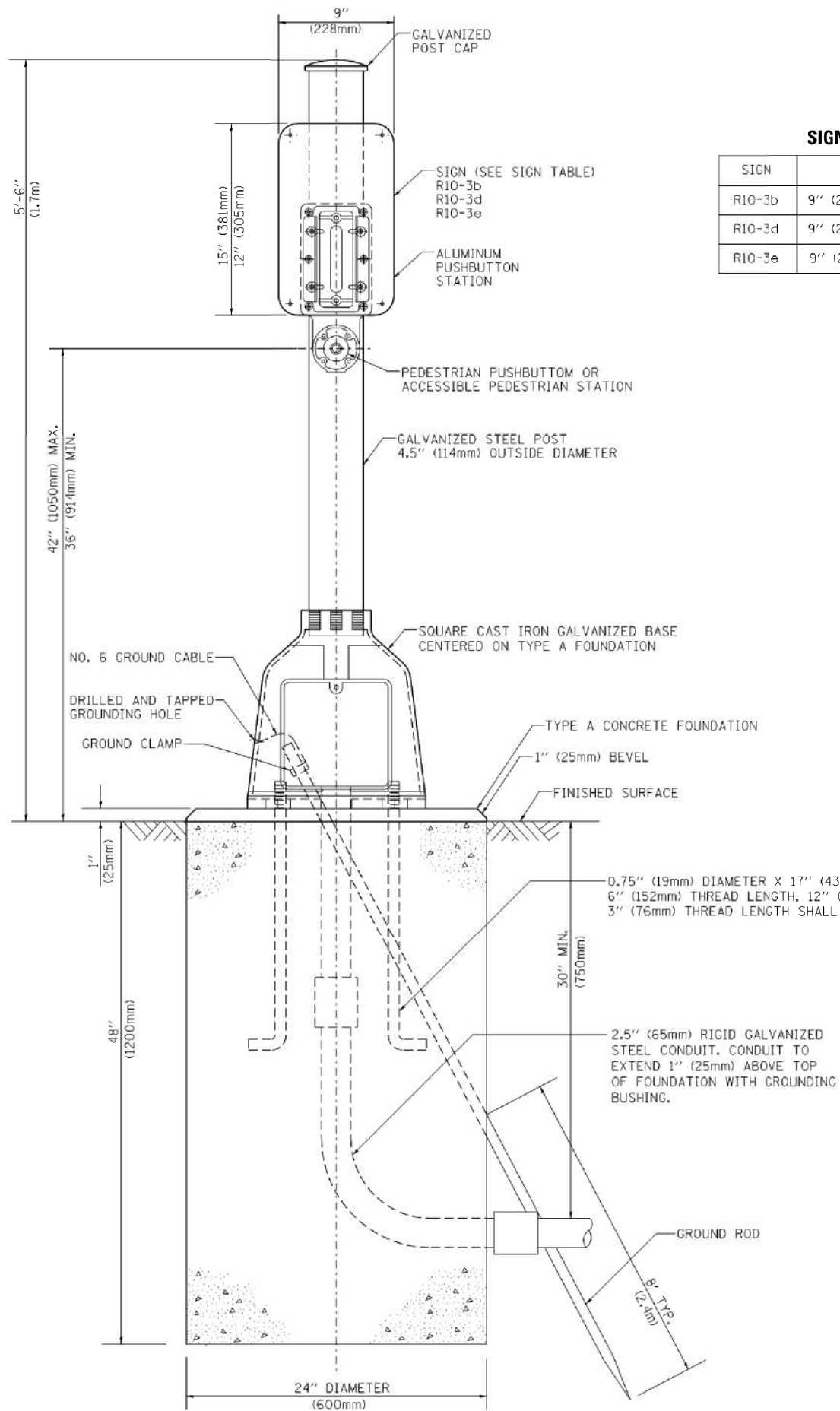
NOTES:

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

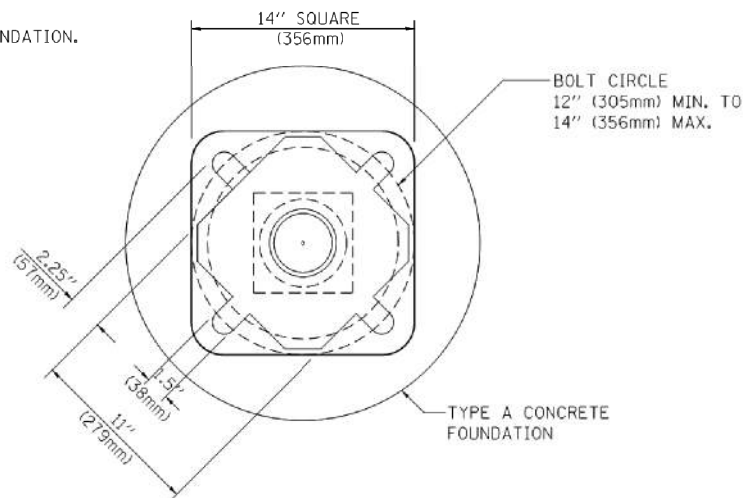
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cs:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	4051	15-00065-00-R5	MCHENRY	72	27
	PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISED -				TS-05		CONTRACT NO.	61F42
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT

COMPANY NAME: MCHENRY
PROJECT CONTACT: 15-00065-00-R5
DATE PLOTTED: 1/13/2014 3:15:51 PM
FILE NAME: 257-str-det ts05.dgn
PLOT DRIVER: lload.bw@hrcfg
PEN TABLE: pla-table.tbl



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

COMPANY NAME: MCHENRY
PROJECT CONTACT: 15-00065-00-RS
DATE PLOTTED: 11/12/2014 3:46:15 PM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

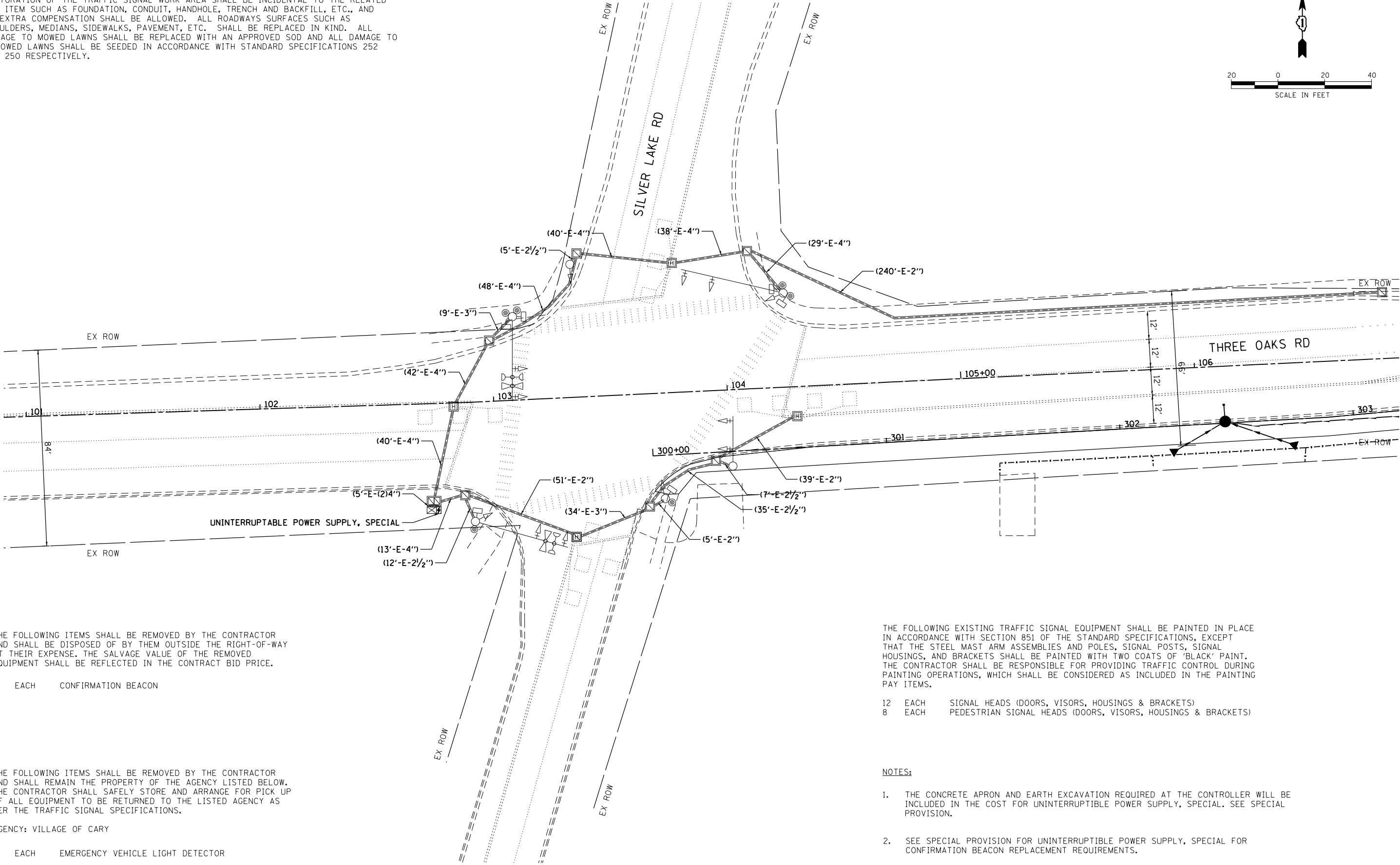
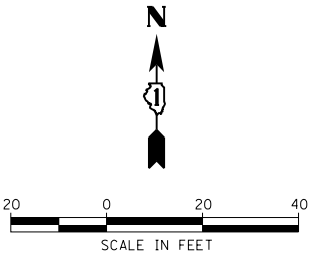
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	29
TS-05		CONTRACT NO.	61F42	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS 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 LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH CONFIRMATION BEACON

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF CARY

- 4 EACH EMERGENCY VEHICLE LIGHT DETECTOR

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED IN PLACE IN ACCORDANCE WITH SECTION 851 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE STEEL MAST ARM ASSEMBLIES AND POLES, SIGNAL POSTS, SIGNAL HOUSINGS, AND BRACKETS SHALL BE PAINTED WITH TWO COATS OF 'BLACK' PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING PAINTING OPERATIONS, WHICH SHALL BE CONSIDERED AS INCLUDED IN THE PAINTING PAY ITEMS.

- 12 EACH SIGNAL HEADS (DOORS, VISORS, HOUSINGS & BRACKETS)
8 EACH PEDESTRIAN SIGNAL HEADS (DOORS, VISORS, HOUSINGS & BRACKETS)

NOTES:

- THE CONCRETE APRON AND EARTH EXCAVATION REQUIRED AT THE CONTROLLER WILL BE INCLUDED IN THE COST FOR UNINTERRUPTIBLE POWER SUPPLY, SPECIAL. SEE SPECIAL PROVISION.
- SEE SPECIAL PROVISION FOR UNINTERRUPTIBLE POWER SUPPLY, SPECIAL FOR CONFIRMATION BEACON REPLACEMENT REQUIREMENTS.

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:42:28 PM
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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
THREE OAKS ROAD AT SILVER LAKE ROAD

SCALE: 1" = 20' SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	30
		CONTRACT NO.		61F42
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

COMPANY NAME: HRGreen.com
PROJECT CONTACT: 11/12/2018 3:43:31 PM
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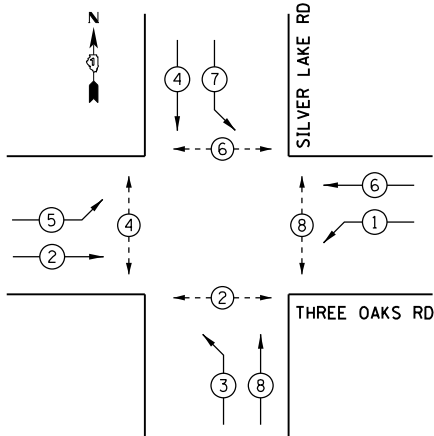
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	443.8
ENERGY COSTS TO:				
VILLAGE OF CARY				
655 VILLAGE HALL DRIVE				
CARY, IL 60013				
ENERGY SUPPLY: CONTACT: MICHAEL PERRON				
PHONE: (815) 477-5204				
COMPANY: COMMONWEALTH EDISON				
ACCOUNT NUMBER: ---				



USER NAME = jstrzel
FILE NAME = 257-sht-sigcab.01.dgn
PLOT SCALE = 1" = 20'
PLOT DATE = 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

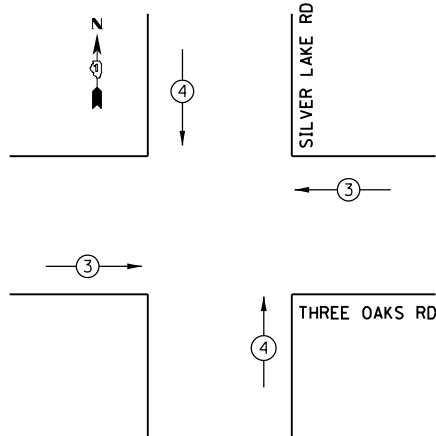
EXISTING & PROPOSED CONTROLLER SEQUENCE



LEGEND:
* DUAL ENTRY PHASE
* OVERLAP
* PEDESTRIAN PHASE
• NUMBER REFERRING TO ASSOCIATED PHASE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

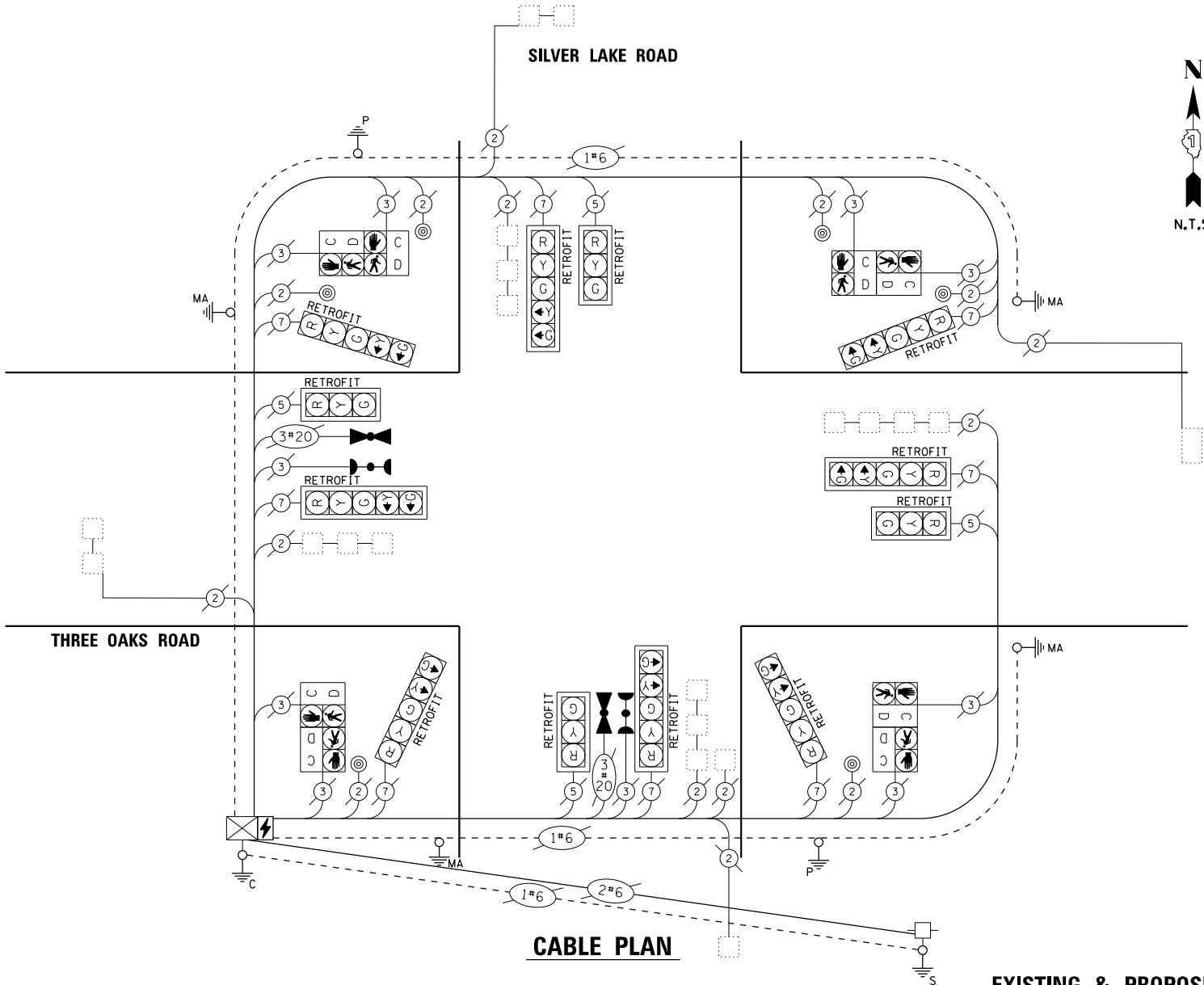
EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
THREE OAKS ROAD AT SILVER LAKE ROAD

SCALE: 1" = 20' SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	31
			CONTRACT NO.	61F42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

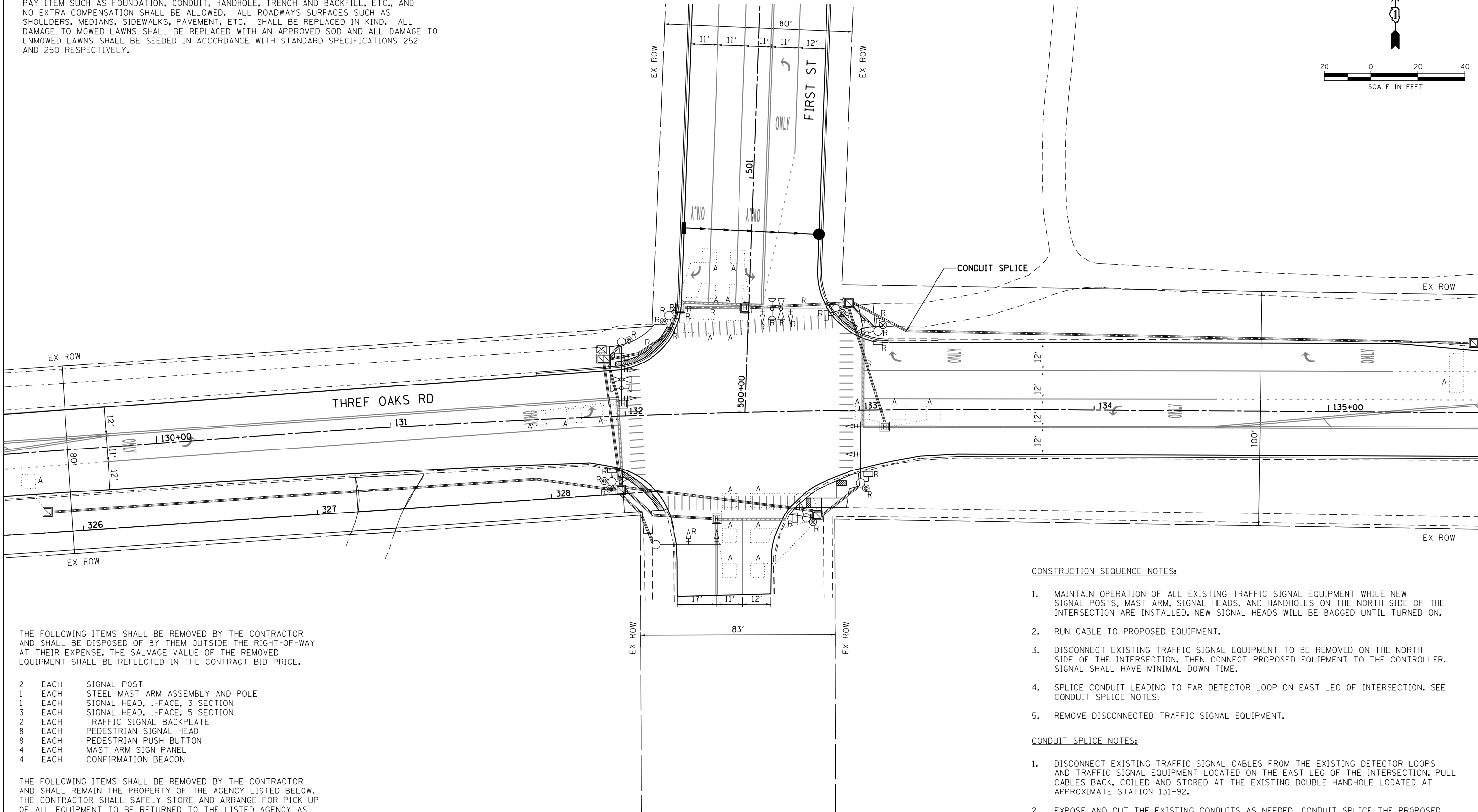
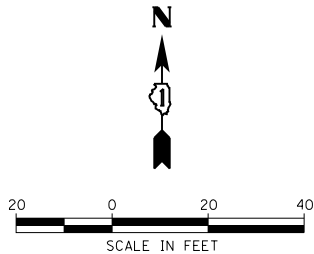


SCHEDULE OF QUANTITIES

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS 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 LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH SIGNAL POST
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 1 EACH SIGNAL HEAD, 1-FACE, 3 SECTION
- 3 EACH SIGNAL HEAD, 1-FACE, 5 SECTION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH BUTTON
- 4 EACH MAST ARM SIGN PANEL
- 4 EACH CONFIRMATION BEACON

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF CARY

- 4 EACH EMERGENCY VEHICLE LIGHT DETECTOR

CONSTRUCTION SEQUENCE NOTES:

1. MAINTAIN OPERATION OF ALL EXISTING TRAFFIC SIGNAL EQUIPMENT WHILE NEW SIGNAL POSTS, MAST ARM, SIGNAL HEADS, AND HANDHOLES ON THE NORTH SIDE OF THE INTERSECTION ARE INSTALLED. NEW SIGNAL HEADS WILL BE BAGGED UNTIL TURNED ON.
2. RUN CABLE TO PROPOSED EQUIPMENT.
3. DISCONNECT EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED ON THE NORTH SIDE OF THE INTERSECTION, THEN CONNECT PROPOSED EQUIPMENT TO THE CONTROLLER. SIGNAL SHALL HAVE MINIMAL DOWN TIME.
4. SPLICE CONDUIT LEADING TO FAR DETECTOR LOOP ON EAST LEG OF INTERSECTION. SEE CONDUIT SPLICE NOTES.
5. REMOVE DISCONNECTED TRAFFIC SIGNAL EQUIPMENT.

CONDUIT SPLICE NOTES:

1. DISCONNECT EXISTING TRAFFIC SIGNAL CABLES FROM THE EXISTING DETECTOR LOOPS AND TRAFFIC SIGNAL EQUIPMENT LOCATED ON THE EAST LEG OF THE INTERSECTION. PULL CABLES BACK, COILED AND STORED AT THE EXISTING DOUBLE HANDHOLE LOCATED AT APPROXIMATE STATION 131+92.
2. EXPOSE AND CUT THE EXISTING CONDUITS AS NEEDED. CONDUIT SPLICE THE PROPOSED 2" CONDUIT TO THE EXISTING CONDUITS.

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
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PLOT SCALE = 1" = 20'	CHECKED - AC	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVE EXISTING TRAFFIC SIGNALS PLAN
THREE OAKS ROAD AT FIRST STREET

SCALE: 1" = 20' SHEET NO. 3 OF 6 SHEETS STA. TO STA.

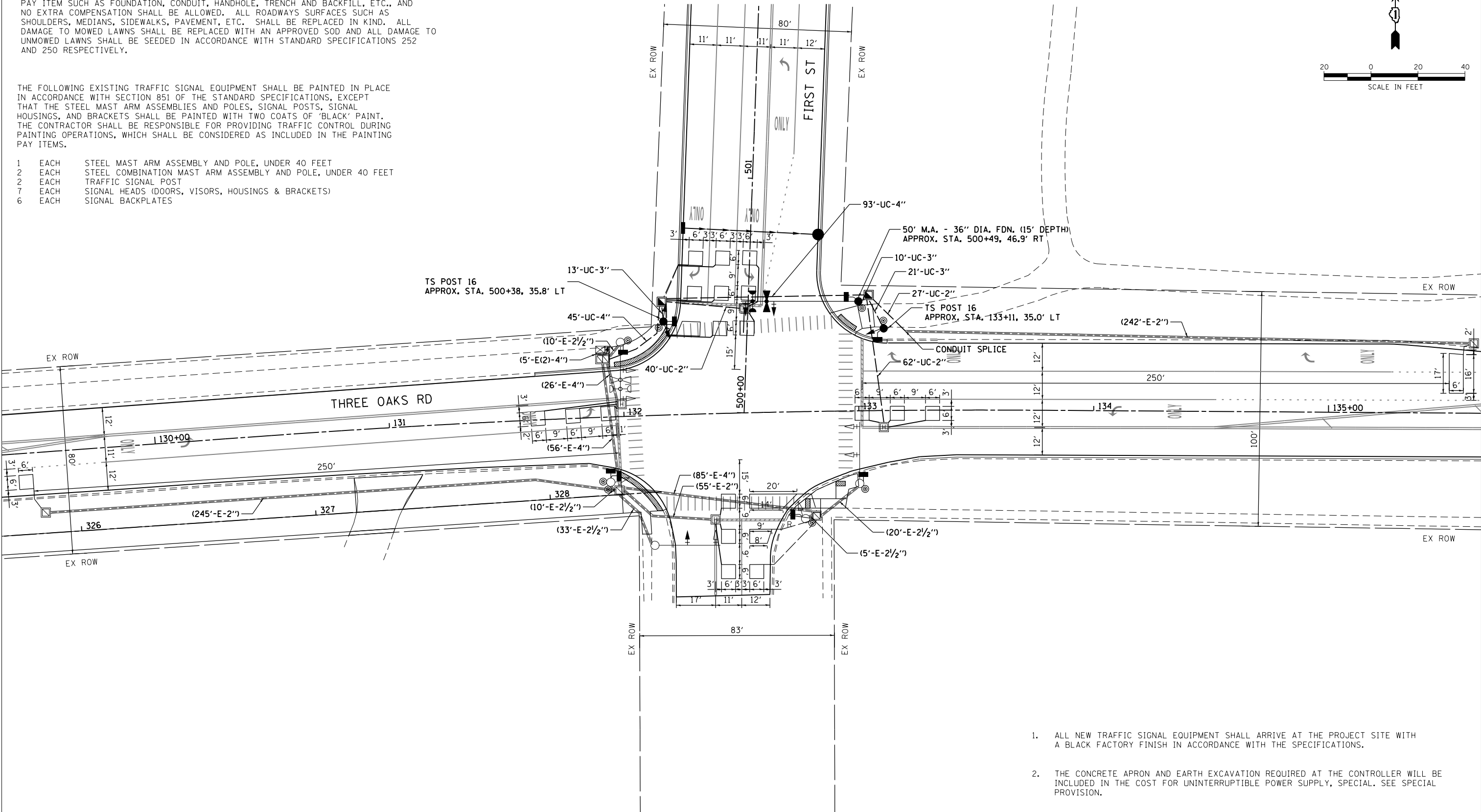
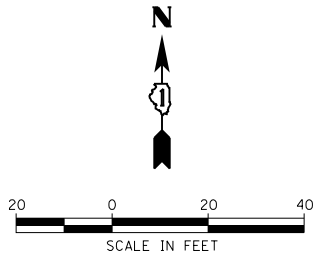
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	32
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS 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 LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED IN PLACE IN ACCORDANCE WITH SECTION 851 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE STEEL MAST ARM ASSEMBLIES AND POLES, SIGNAL POSTS, SIGNAL HOUSINGS, AND BRACKETS SHALL BE PAINTED WITH TWO COATS OF 'BLACK' PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING PAINTING OPERATIONS, WHICH SHALL BE CONSIDERED AS INCLUDED IN THE PAINTING PAY ITEMS.

- | | | |
|---|------|---|
| 1 | EACH | STEEL MAST ARM ASSEMBLY AND POLE, UNDER 40 FEET |
| 2 | EACH | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, UNDER 40 FEET |
| 2 | EACH | TRAFFIC SIGNAL POST |
| 7 | EACH | SIGNAL HEADS (DOORS, VISORS, HOUSINGS & BRACKETS) |
| 6 | EACH | SIGNAL BACKPLATES |



- ALL NEW TRAFFIC SIGNAL EQUIPMENT SHALL ARRIVE AT THE PROJECT SITE WITH A BLACK FACTORY FINISH IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONCRETE APRON AND EARTH EXCAVATION REQUIRED AT THE CONTROLLER WILL BE INCLUDED IN THE COST FOR UNINTERRUPTIBLE POWER SUPPLY, SPECIAL. SEE SPECIAL PROVISION.
- SEE SPECIAL PROVISION FOR UNINTERRUPTIBLE POWER SUPPLY, SPECIAL FOR CONFIRMATION BEACON REPLACEMENT REQUIREMENTS.
- EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:43:38 PM
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HRGreen.com
Illinois Professional Design Firm
184-001322

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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
THREE OAKS ROAD AT FIRST STREET

SCALE: 1" = 20' SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	33
		CONTRACT NO.	61F42	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMPANY NAME: HRGreen.com
PROJECT CONTACT: 11/12/2018 3:44:41 PM
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FILE NAME: 257-str-sigcab.02.dgn
PLOT DRIVER: ILpdf.dwt
PEN TABLE: plotlabel.tbl

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	459.7
ENERGY COSTS TO:				
VILLAGE OF CARY				
655 VILLAGE HALL DRIVE				
CARY, IL 60013				
ENERGY SUPPLY: CONTACT: MICHAEL PERRON				
PHONE: (815) 477-5204				
COMPANY: COMMONWEALTH EDISON				
ACCOUNT NUMBER: ---				



USER NAME = jstrzal	DESIGNED - JJS	REVISED -
FILE NAME = 257-str-sigcab.02.dgn	DRAWN - DMS	REVISED -
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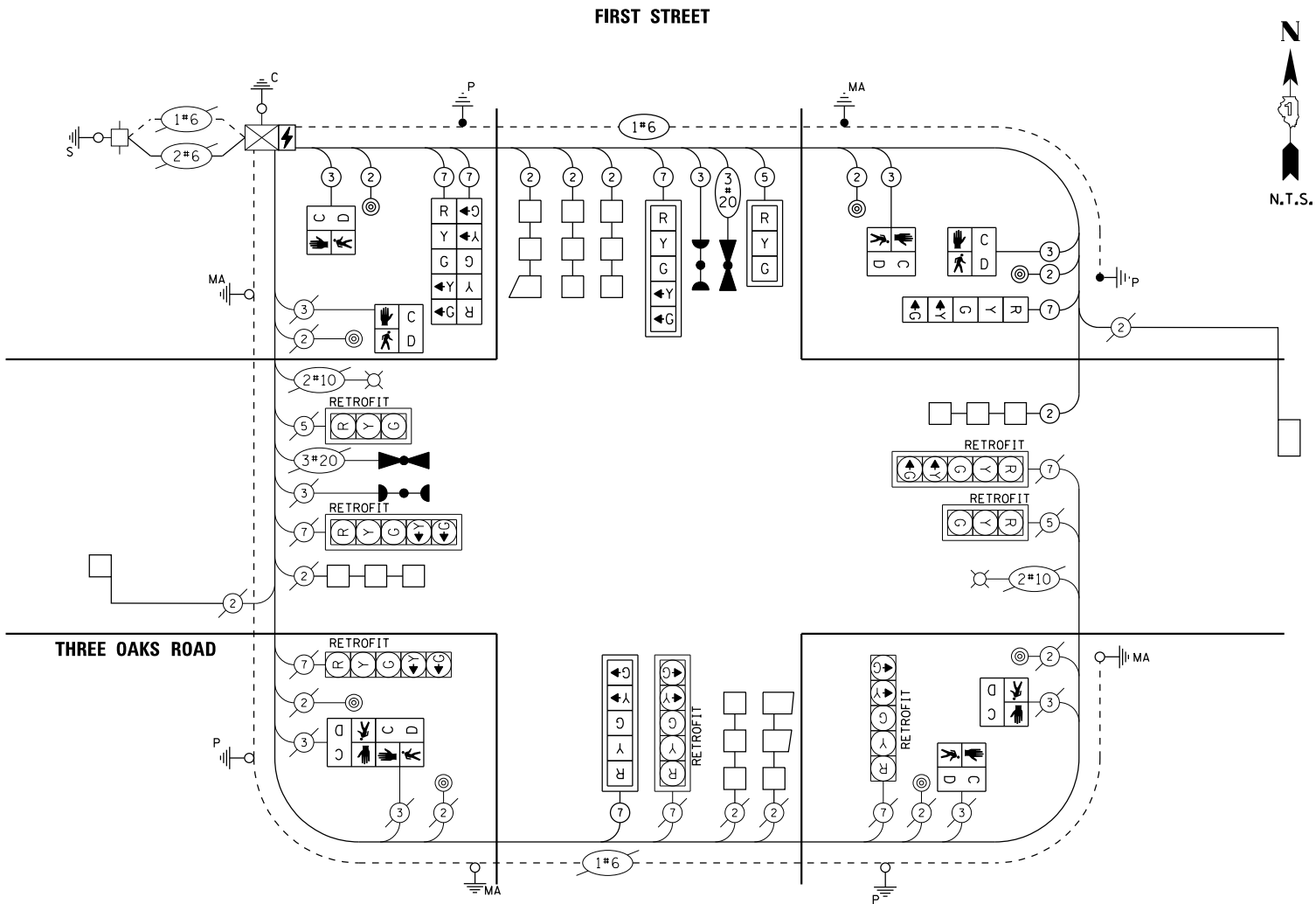
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DRAWN - DMS	REVISED -
CHECKED - AC	REVISED -
DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
THREE OAKS ROAD AT FIRST STREET

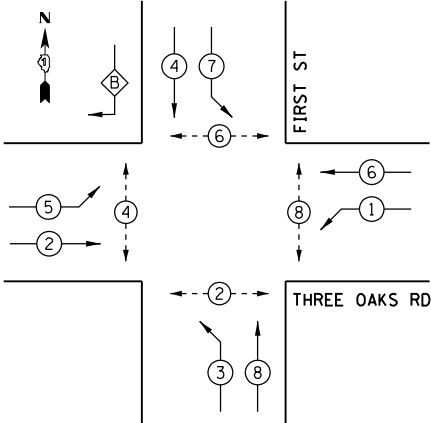
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	34
CONTRACT NO.				61F42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



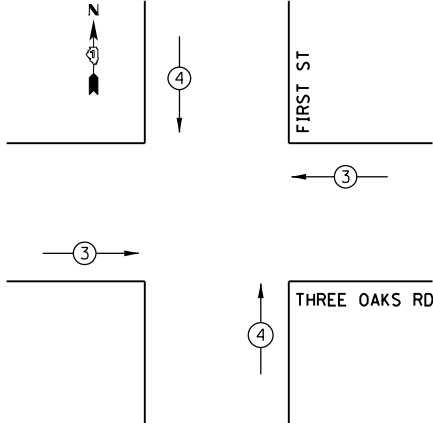
CABLE PLAN

EXISTING & PROPOSED
CONTROLLER SEQUENCE



- LEGEND:
- DUAL ENTRY PHASE
 - OVERLAP
 - PEDESTRIAN PHASE
- NUMBER REFERRING TO ASSOCIATED PHASE

EXISTING & PROPOSED
EMERGENCY VEHICLE
PREEMPTION SEQUENCE



COMPANY NAME: \$COMPANY_NAME\$
PROJECT CONTACT: \$PROJECT_CONTACT\$
DATE PLOTTED: 11/12/2018 3:46:44 PM
FILE NAME: 257-str-sigsch.02.dgn
PLOT DRIVER: ilpdf.bwpltrcfrg
PEN TABLE: plotlabel.tbl



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FILE NAME = 257-sht-sigsch.02.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = 1" = 20'	CHECKED - AC	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

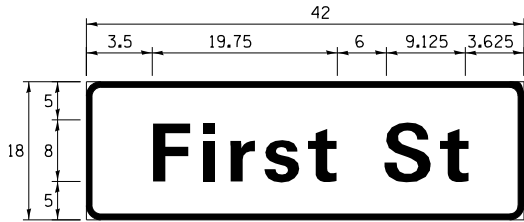
MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
THREE OAKS ROAD AT FIRST STREET

SCALE: 1" = 20' SHEET NO. 6 OF 6 SHEETS STA. TO STA.

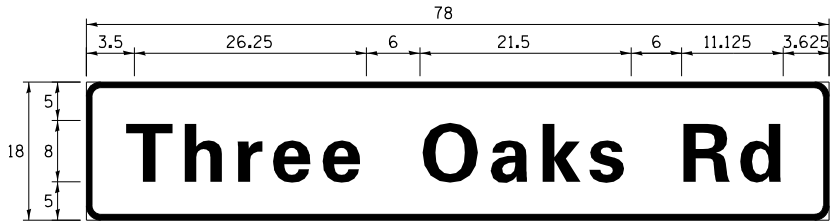
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	35
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	5. 25	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9. 75	2	ZZ	2

SCHEDULE OF QUANTITIES

72000100	SIGN PANEL - TYPE 1	SQ FT	10.5
72000200	SIGN PANEL - TYPE 2	SQ FT	19.5
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	129
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	138
81400100	HANDHOLE	EACH	2
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85100100	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	2
85100701	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	496
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	801
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	224
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	799
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	520
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	478
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3
88500100	INDUCTIVE LOOP DETECTOR	EACH	1
88600100	DETECTOR LOOP, TYPE 1	FOOT	316
88600600	DETECTOR LOOP REPLACEMENT	FOOT	505
88700200	LIGHT DETECTOR	EACH	2
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	143
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	453
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	232
X8100105	CONDUIT SPLICE	EACH	1
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	3
X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2

COMPANY NAME: HRGreen
PROJECT CONTACT: JSTRAZEL
DATE PLOTTED: 11/12/2018 3:44:47 PM
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PLOT DRIVER: ILpdf.bwplotter
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

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FILE NAME = 257-str-det-swramps.01.dgn
PLOT SCALE = 1"=10'
PLOT DATE = 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

REVISED -
REVISED -
REVISED -
REVISED -

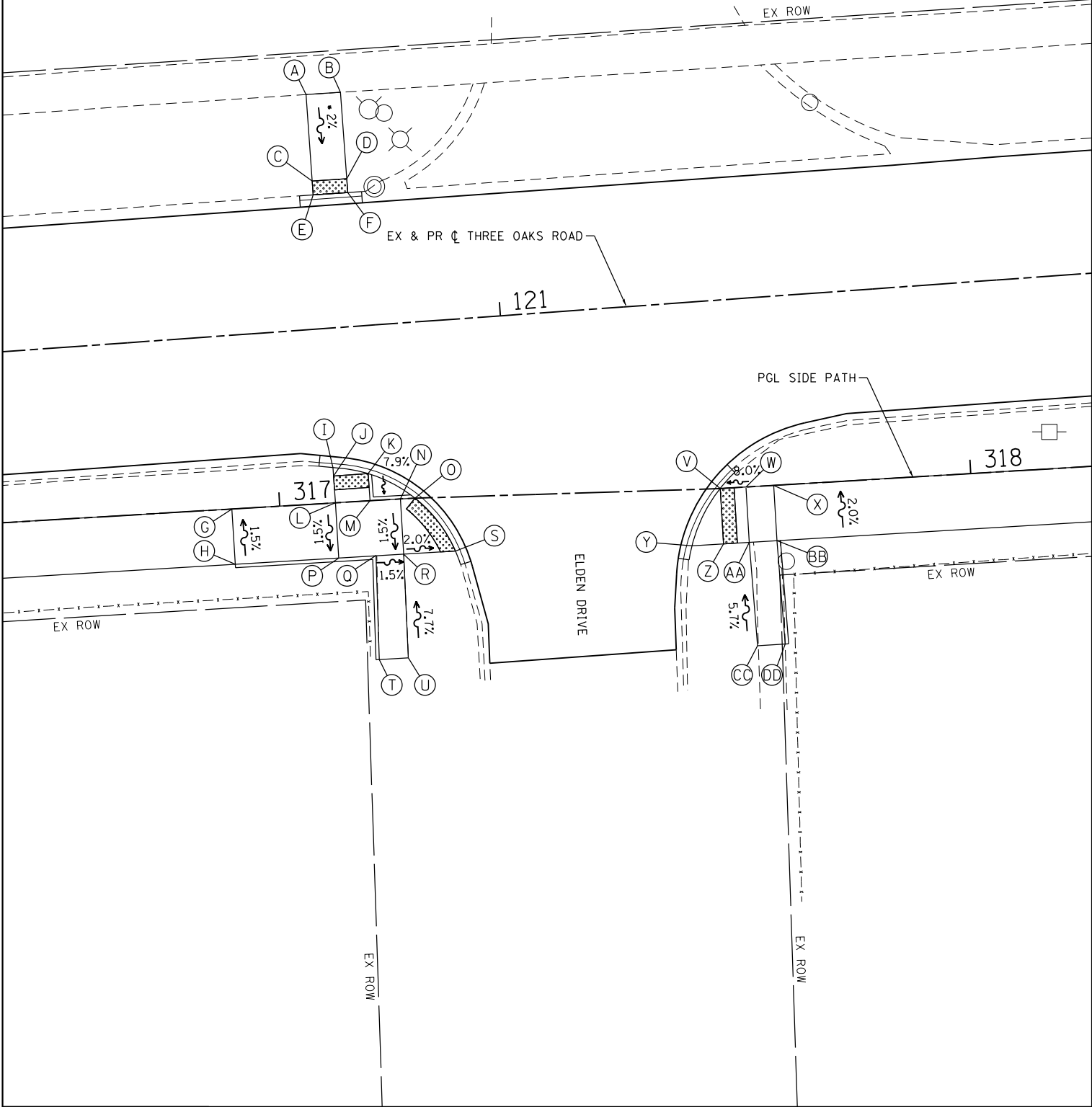
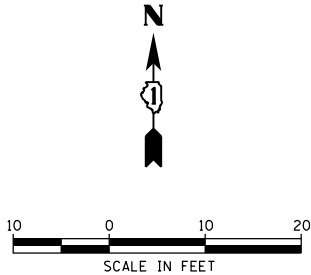
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
THREE OAKS ROAD

SCALE: 1"=10' SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	36
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F42

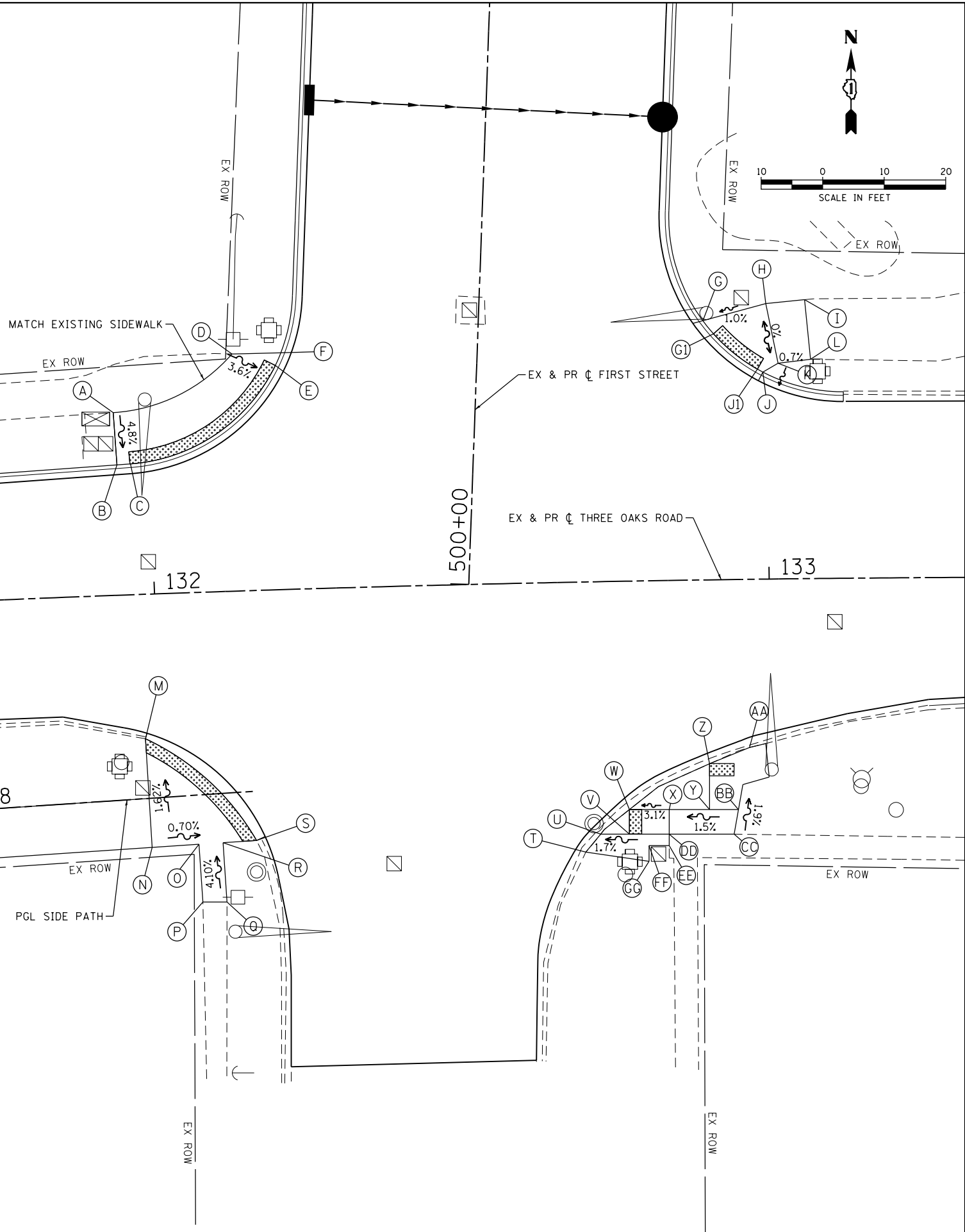
• SLOPE SHALL NOT BE MORE THAN 1:12. REMOVE ADDITIONAL SIDEWALK IF REQUIRED TO ACHIEVE ACCEPTABLE SLOPE.



POINT DESCRIPTION THREE OAKS ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	120+74.3	33.9' LT				
B	120+79.3	33.9' LT				
C	120+74.3	21.4' LT				DT WARN
D	120+79.3	21.4' LT				DT WARN
E	120+74.3	19.4' LT				DT WARN
F	120+79.3	19.4' LT				DT WARN
G	316+93.1	0.0' RT			862.01	
H	316+93.1	8.0' RT	862.27		862.27	
I	317+08.0	5.1' RT	861.15	861.11	861.15	
J	317+08.0	3.9' RT			861.09	DT WARN
K	317+13.0	4.0' RT	860.99	860.95	860.99	DT WARN
L	317+08.1	0.0' RT			860.77	
M	317+13.1	0.0' RT	861.18		860.68	
N	317+17.5	0.0' RT			860.66	
O	317+19.6	0.0' RT	860.66	860.62	860.66	DT WARN
P	317+08.1	8.0' RT			860.60	
Q	317+13.5	7.9' RT	861.02		860.52	
R	317+17.5	8.0' RT			860.46	
S	317+25.2	7.8' RT		860.27	860.31	DT WARN
T	317+13.0	23.0' RT	861.84		861.84	
U	317+17.2	23.0' RT	861.62		861.62	
V	317+63.7	0.0' RT		859.79	859.83	DT WARN
W	317+67.5	0.0' RT			860.13	
X	317+71.5	0.0' RT			860.21	
Y	317+59.4	8.1' RT		859.93	859.97	
Z	317+63.7	8.0' RT			859.99	DT WARN
AA	317+67.5	8.0' RT			860.29	
BB	317+71.5	8.0' RT	860.89		860.37	
CC	317+67.8	23.0' RT			861.14	
DD	317+71.8	23.0' RT	861.24		861.24	

- LEGEND
- (A) POINT
 - [Pattern] DETECTABLE WARNINGS
 - [Pattern] CURB DEPRESSION

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 11/12/2018 3:45:50 PM
FILE NAME: 257-sht-det-swamps.02.dgn
PLOT DRIVER: ILpdf.bwplotter
PEN TABLE: plotlabel.tbl



POINT DESCRIPTION THREE OAKS ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	131+94.4	29.7' LT			864.77	
B	131+94.7	21.2' LT		865.14	865.18	
C	131+96.9	21.3' LT		865.15	865.19	DT WARN
D	132+13.9	38.6' LT			865.07	
E	132+20.8	36.5' LT		864.77	864.81	DT WARN
F	132+21.7	38.5' LT		864.74	864.78	
G	132+89.8	42.1' LT			864.85	
G1	132+91.5	40.0' LT		864.84	864.88	DT WARN
H	133+00.0	44.8' LT			864.97	
I	133+06.2	45.3' LT			864.94	
J	132+99.4	33.7' LT			864.95	
J1	132+98.5	34.2' LT		864.86	864.90	
K	133+01.9	35.1' LT			864.97	
L	133+07.1	35.7' LT			865.01	DT WARN
M	328+30.6	9.7' RT			865.11	DT WARN
N	328+30.5	8.0' RT			865.38	
O	328+38.2	8.0' RT			865.33	DT WARN
P	328+38.2	17.4' RT			865.71	DT WARN
Q	328+42.1	50.5' RT			865.71	
R	328+42.1	8.0' RT			865.30	
S	328+47.5	8.0' RT			865.26	
T	132+69.3	43.9' RT		865.69	865.73	
U	132+71.8	41.0' RT		865.41	865.45	
V	132+76.5	41.1' RT			865.37	DT WARN
W	132+76.6	37.1' RT		865.27	865.31	DT WARN
X	132+83.1	37.2' RT			865.51	
Y	132+89.7	37.3' RT			865.61	
Z	132+89.8	29.9' RT		865.08	865.12	DT WARN
AA	132+96.4	27.3' RT		865.32	865.36	
BB	132+94.5	37.4' RT			865.56	
CC	132+93.7	41.4' RT			865.70	
DD	132+83.1	41.2' RT			865.54	
EE	132+83.0	43.1' RT			865.57	
FF	132+79.7	43.0' RT			865.48	
GG	132+79.7	45.6' RT			865.51	

- LEGEND
- (A) POINT
 - [Pattern] DETECTABLE WARNINGS
 - [Pattern] CURB DEPRESSION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
THREE OAKS ROAD

SCALE: 1"=10' SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	37
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:45:51 PM
FILE NAME: 257-sht-det-sw-ramps.03.dgn
PLOT DRIVER: ILpdf.bwplotter
PEN TABLE: plotlabel.tbl



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Illinois Professional Design Firm
#184-001322

USER NAME : jstrzel
FILE NAME : 257-sht-det-sw-ramps.03.dgn
PLOT SCALE : 1"=10'
PLOT DATE : 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

REVISED -
REVISED -
REVISED -
REVISED -

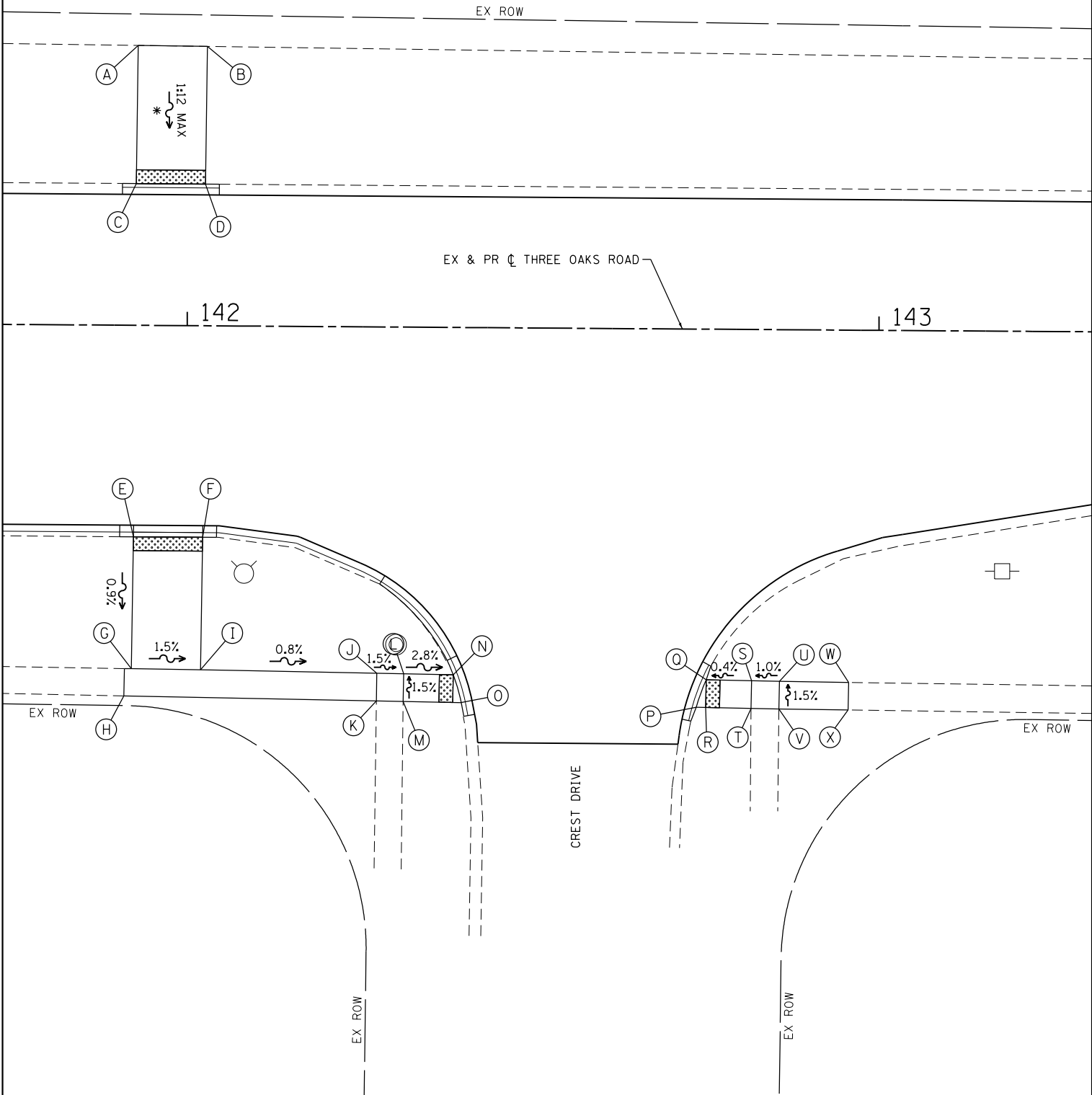
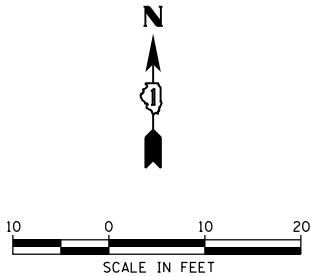
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
THREE OAKS ROAD

SCALE: 1"=10' SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	38
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

*SLOPE SHALL NOT BE MORE THAN 1:12. REMOVE
ADDITIONAL SIDEWALK IF REQUIRED TO ACHIEVE ACCEPTABLE SLOPE.



POINT DESCRIPTION THREE OAKS ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	141+92.7	40.5' LT				
B	142+02.7	40.4' LT				
C	141+92.51	20.5' LT				DT WARN
D	142+02.5	20.5' LT				DT WARN
E	141+92.4	30.6' RT		867.24	867.28	DT WARN
F	141+02.4	30.6' RT		867.22	867.26	DT WARN
G	141+92.3	49.6' RT			867.10	
H	141+92.2	53.6' RT			XXX.XX	
I	142+02.3	49.7' RT			866.95	
J	142+27.8	50.1' RT			866.75	
K	142+27.7	54.1' RT			866.74	
L	142+31.6	50.1' RT			866.69	
M	142+31.6	54.1' RT			866.63	
N	142+38.8	50.2' RT		866.45	866.49	DT WARN
O	142+39.9	54.2' RT		866.43	866.47	
P	142+74.0	54.7' RT		866.90	866.94	
Q	142+75.4	50.7' RT		866.93	866.97	DT WARN
R	142+75.3	54.7' RT			866.91	DT WARN
S	142+81.9	50.8' RT			866.74	
T	142+81.9	54.8' RT			866.80	
U	142+86.0	50.8' RT			866.78	
V	142+85.9	54.8' RT			866.72	
W	142+96.0	50.9' RT				MATCH EX
X	142+95.9	54.9' RT				MATCH EX

LEGEND

- (A) POINT
- [Cross-hatch] DETECTABLE WARNINGS
- [Diagonal-hatch] CURB DEPRESSION

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 11/12/2018 3:45:55 PM
FILE NAME: 257-sht-det-swamps.04.dgn
PLOT DRIVER: ILpdf.dwt
PEN TABLE: plotlabel.tbl



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#184-001322

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FILE NAME	= 257-sht-det-swamps.04.dgn
PLOT SCALE	= 1"=10'
PLOT DATE	= 11/12/2018

DESIGNED	-	JJS	REVISED	-
DRAWN	-	DMS	REVISED	-
CHECKED	-	AC	REVISED	-
DATE	-	08/10/18	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
THREE OAKS ROAD

SCALE: 1"=10' SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	39
CONTRACT NO.			61F42	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

POINT DESCRIPTION NORTH FIRST STREET						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	502+97.4	31.6' LT			864.30	
B	502+91.5	34.6' LT			864.31	
C	502+89.5	31.2' LT		864.21	864.25	DT WARN
D	502+94.8	27.1' LT		864.19	864.23	DT WARN
E	503+00.7	28.4' RT		864.04	864.08	DT WARN
F	502+90.8	28.6' RT		864.05	864.09	DT WARN
G	503+01.5	38.6' RT			864.94	
H	502+91.4	38.8' RT			864.94	

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:46:58 PM
FILE NAME: 257-str-det-sw-ramps_05.dgn
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Illinois Professional Design Firm
184-001322

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PLOT DATE = 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

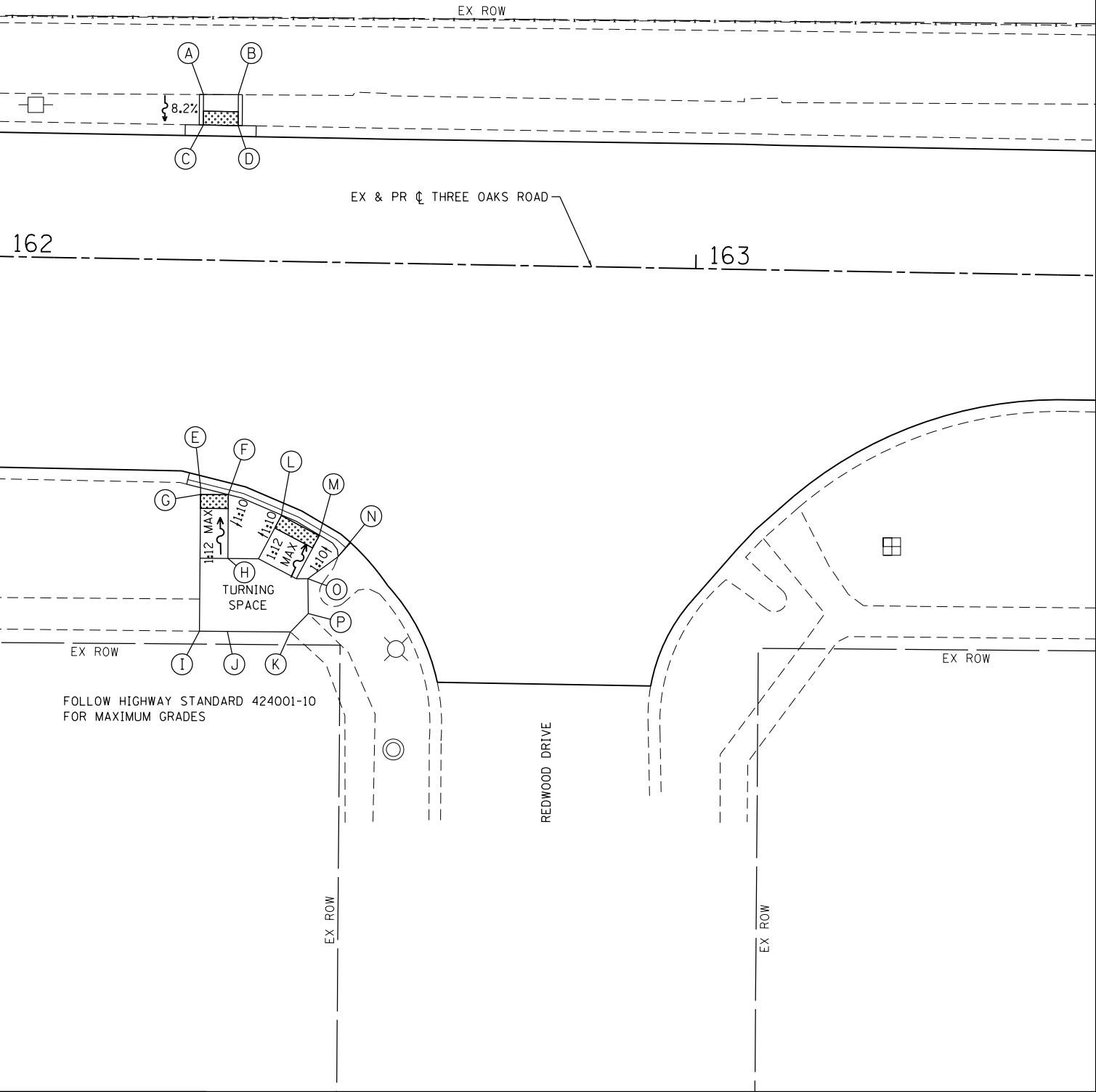
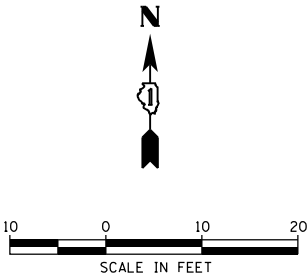
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
THREE OAKS ROAD

SCALE: 1"=10' SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	40
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



POINT DESCRIPTION THREE OAKS ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	162+28.9	23.8' LT	863.02		863.02	
B	162+33.9	23.8' LT	862.97		862.97	
C	162+29.0	19.4' LT	863.12	862.62	862.66	DT WARN
D	162+34.0	19.4' LT	863.07	862.57	862.61	DT WARN
E	162+29.5	32.7' RT				
F	162+33.5	33.6' RT				DT WARN
G	162+29.5	33.6' RT				DT WARN
H	162+33.6	42.8' RT				
I	162+29.7	53.3' RT				MATCH EX
J	162+33.7	53.2' RT				
K	162+42.8	53.1' RT			862.83	MATCH EX
L	162+41.2	36.4' RT				DT WARN
M	162+46.6	39.3' RT				DT WARN
N	162+49.4	42.2' RT				
O	162+45.1	45.5' RT				
P	162+45.3	50.5' RT			862.73	MATCH EX

LEGEND

- (A) POINT
- [Pattern] DETECTABLE WARNINGS
- [Pattern] CURB DEPRESSION

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:15:01 PM
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PLOT DRIVER: ILpdf.bwplotterq
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

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FILE NAME = 257-str-det-sw-ramps_06.dgn
PLOT SCALE = 1"=10'
PLOT DATE = 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

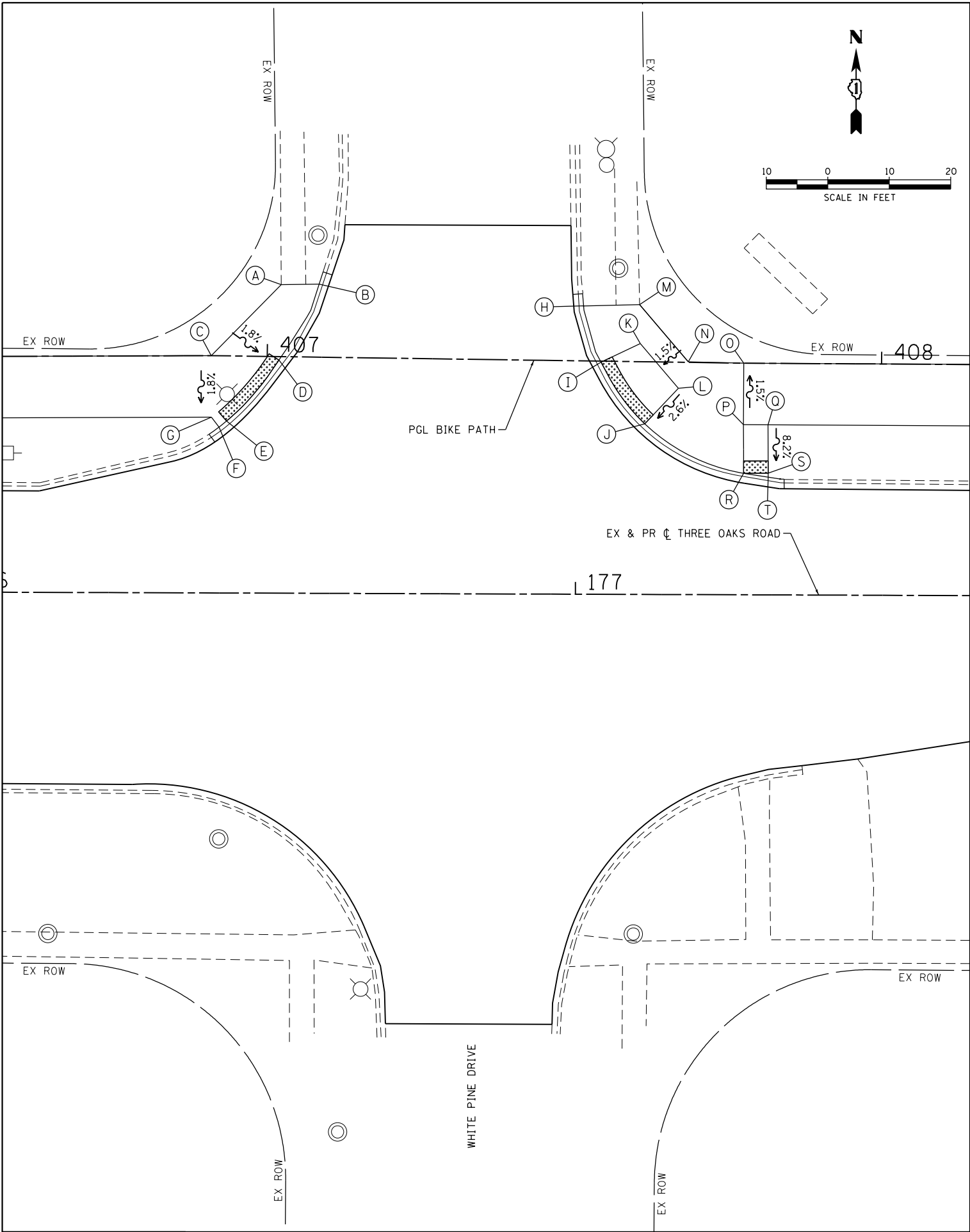
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
THREE OAKS ROAD

SCALE: 1"=10' SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	41
CONTRACT NO.			61F42	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



POINT DESCRIPTION THREE OAKS ROAD

POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	407+02.1	11.7' LT			870.62	
B	407+08.3	11.9' LT		870.04	870.54	
C	406+90.9	0.0' LT			870.73	
D	407+01.9	0.6' LT			870.58	DT WARN
E	406+93.5	10.6' LT		870.51	870.55	DT WARN
F	406+92.3	11.6' LT		870.48	870.52	
G	406+91.1	10.0' LT			870.55	
H	407+51.4	9.0' LT			871.47	
I	407+54.3	0.2' LT		871.88	871.92	DT WARN
J	407+61.6	10.1' RT		872.60	872.64	DT WARN
K	407+60.7	3.0' LT			872.28	
L	407+67.0	4.2' RT			872.43	
M	407+60.5	9.3' LT			871.90	
N	407+68.5	0.1' LT			872.46	
O	407+77.6	0.0' LT			872.82	
P	407+77.7	10.0' RT			872.97	
Q	407+81.6	10.0' RT			873.04	
R	407+77.8	18.0' RT		873.56	873.60	DT WARN
S	407+81.7	17.9' RT			873.69	DT WARN
T	407+81.7	18.5' RT		873.68	873.72	

LEGEND



POINT



DETECTABLE WARNINGS



CURB DEPRESSION

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 11/12/2018 3:15:05 PM
FILE NAME: 257-sht-det-swamps.01.dgn
PLOT DRIVER: ILpdf.dwt
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME : jstrzel
FILE NAME : 257-sht-det-swamps.07.dgn
PLOT SCALE : 1"=10'
PLOT DATE : 11/12/2018

DESIGNED - JJS
DRAWN - DMS
CHECKED - AC
DATE - 08/10/18

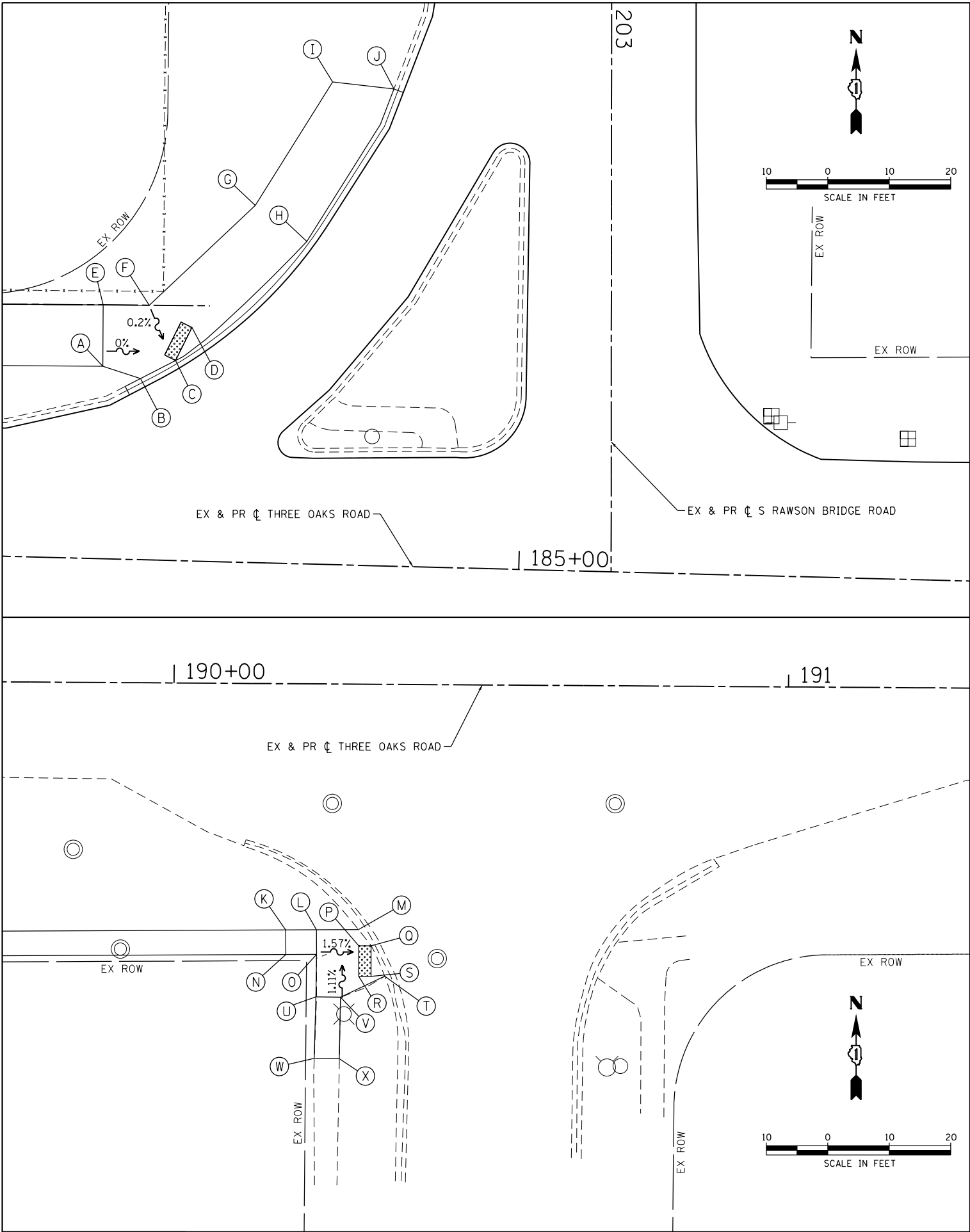
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
THREE OAKS ROAD

SCALE: 1"=10' SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	42
CONTRACT NO.			61F42	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



POINT DESCRIPTION THREE OAKS ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	414+82.5	10.0' LT			877.79	
B	414+88.6	11.9' LT			877.63	
C	414+94.3	9.0' LT		877.76	877.80	DT WARN
D	414+96.9	3.6' LT			877.89	DT WARN
E	414+82.5	0.0' LT			877.71	
F	414+90.0	0.0' LT			877.82	
G	414+99.8	16.4' LT			879.03	
H	414+99.8	10.6' LT		878.32	879.18	
I	414+99.8	36.6' LT			879.51	
J	414+99.8	35.5' LT		879.16	879.66	

POINT DESCRIPTION THREE OAKS ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
K	190+18.4	40.1' RT			886.81	
L	190+23.4	40.0' RT			886.61	
M	190+30.3	40.0' RT			886.51	
N	190+18.5	44.1' RT			886.87	
O	190+23.5	44.0' RT		877.76	886.67	DT WARN
P	190+30.3	42.6' RT			886.56	DT WARN
Q	190+32.3	42.6' RT			886.53	
R	190+30.4	47.6' RT			886.64	
S	190+32.4	47.6' RT			886.61	
T	190+34.6	47.5' RT		878.32	886.57	
U	190+23.4	50.9' RT			886.75	
V	190+27.4	51.0' RT		879.16	886.69	
W	190+23.2	60.9' RT			887.70	
X	190+27.3	61.0' RT		879.16	887.60	

LEGEND

- (A) POINT
- [Pattern] DETECTABLE WARNINGS
- [Pattern] CURB DEPRESSION

COMPANY NAME: HRGreen.com
PROJECT CONTACT: J. J. J. J.
DATE PLOTTED: 11/12/2018 3:15:08 PM
FILE NAME: 257-stt-GradingPlan_01.dgn
PLOT DRIVER: ILpdf.bwplfctg
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME	= jstrzel
FILE NAME	= 257-stt-GradingPlan_01.dgn
PLOT SCALE	= 1" = 20'
PLOT DATE	= 11/12/2018

DESIGNED	- JJS
DRAWN	- DMS
CHECKED	- AC
DATE	- 08/10/18

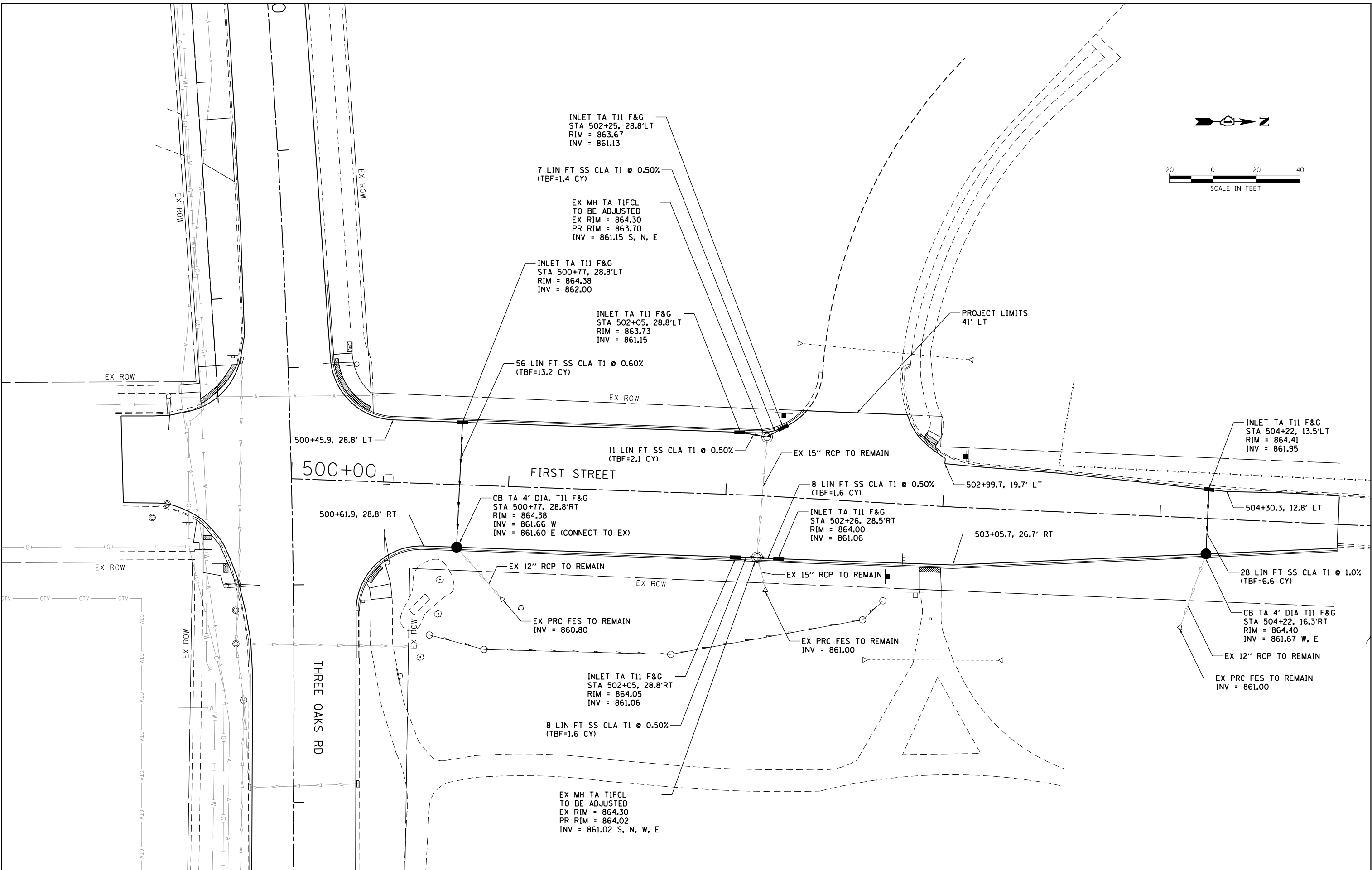
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND GRADING PLAN
FIRST STREET

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	43
CONTRACT NO.				61F42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



S-1 GENERAL PLAN AND ELEVATION
S-2 BILL OF MATERIALS AND DETAILS
S-3 SOIL BORING LOGS

2014 AASHTO LRFD BRIDGE
DESIGN SPECIFICATIONS, 7TH EDITION
AND INTERIM REVISIONS

FIELD UNITS (CONCRETE)

f'c = 3,500 PSI
fy = 60,000 PSI (REINFORCEMENT)

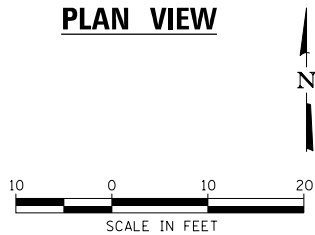
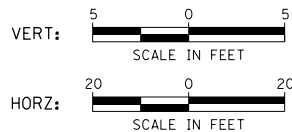
	=	WATER MAIN
	=	STORM SEWER
	=	GAS MAIN
	=	AERIAL (OVERHEAD) UTILITIES

NOTES:

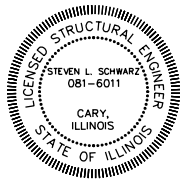
1. WALL STATION AND OFFSETS ARE
TAKEN AT FRONT FACE OF WALL
FROM PATH ALIGNMENT



LOOKING AT BACK FACE
WITH PROP. PATH OVERLAYED



TO THE BEST OF MY KNOWLEDGE, INFORMATION
AND BELIEF, THIS WALL DESIGN IS STRUCTURALLY
ADEQUATE FOR THE DESIGN LOADING SHOWN ON
THE PLANS. THE DESIGN IS AN ECONOMIC ONE
FOR THE STYLE OF STRUCTURE AND COMPLIES WITH
REQUIREMENTS OF THE CURRENT "AASHTO LRFD
BRIDGE DESIGN SPECIFICATIONS."



STRUCTURAL ENGINEER
HR GREEN, INC.

EXPIRES: 11/30/2020

RETAINING WALL

THREE OAKS ROAD

(F.A.U. 4051)

SECTION NO. 15-00065-00-RS

McHENRY COUNTY

STA. 310+30 TO STA. 311+10

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	44
		CONTRACT NO. 61F42		
ILLINOIS FED. AID PROJECT				

HRG PROJECT NO.: 86150257
 HRG PROJ. CONTACT:
 FILE NAME: 257-Str-GPE02.dgn
 PLOT DRIVER: IL-pdf-bw.pltcfg
 PEN TABLE: plotlabel.tbl



HRGreen.com
 ■ Inols Professional Design Firm
 # 184-001322

USER NAME = whood	DESIGNED - JMW	REVISED -
	CHECKED - AC	REVISED -
PLOT SCALE =	DRAWN - WJH	REVISED -
PLOT DATE = 11/28/2018	CHECKED - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S1 OF S3 SHEETS

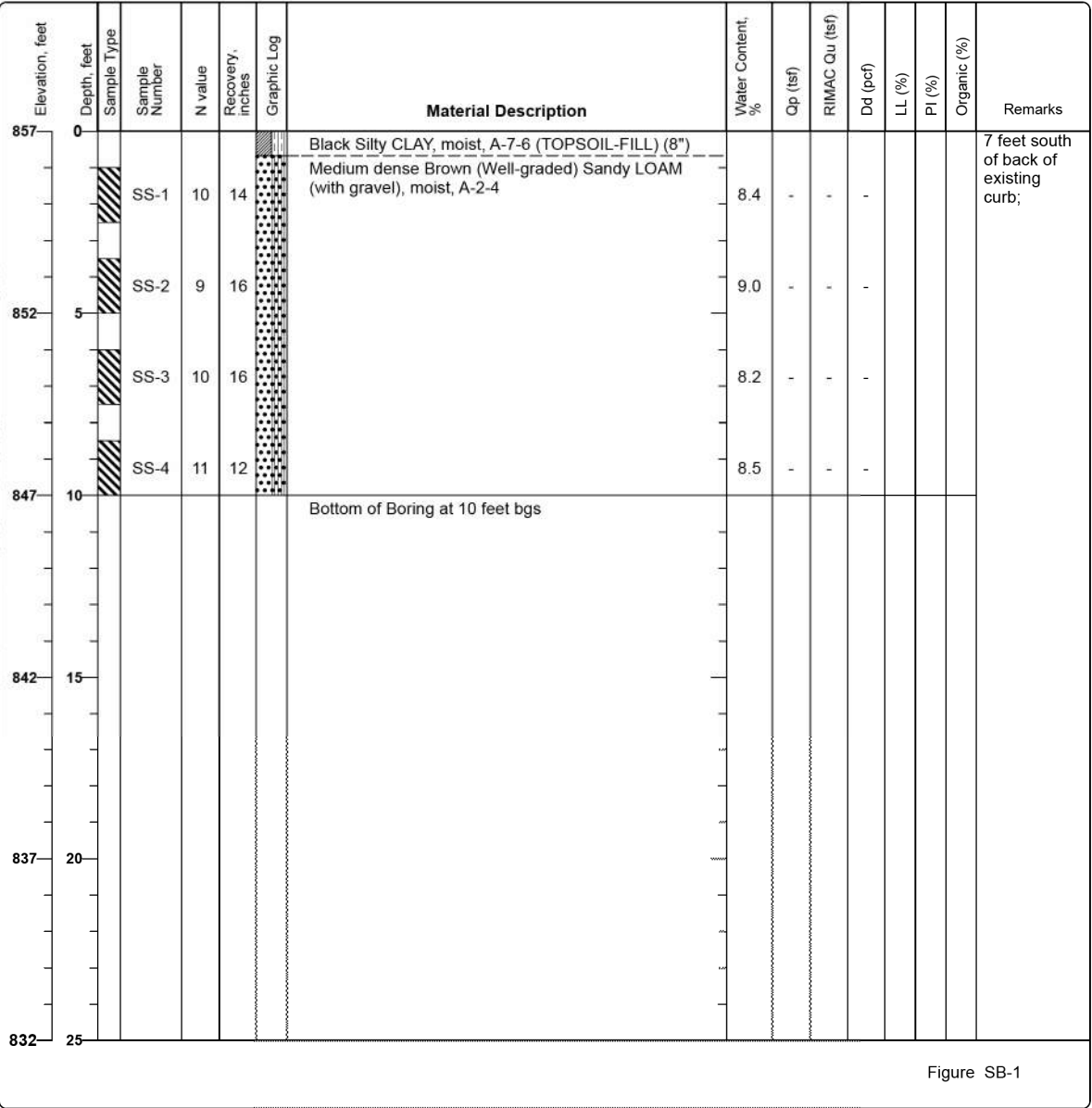
Project: Three Oaks Road Improvements
Project Location: Cary, IL
Project Number: 17EG217



Boring Log SB-1

Sheet 1 of 1

Date(s) Drilled December 4, 2017	Logged By Steve Eucker	Checked By Donald K. Sisson
Drilling Method Continuous Flight Auger	Drill Bit Size/Type 3 inch inch soil bit	Total Depth of Borehole 10 feet bgs
Drill Rig Type CME 45b (Marooka Track Mount)	Drilling Contractor i. e. xploration, llc	Approximate Surface Elevation 857 feet MSL
Groundwater Level and Date Measured Not Encountered ATD	Sampling Method(s) SPT	Hammer Data 140 lb, 30 in drop, auto trip
Borehole Backfill Soil	Location Three Oaks Road Station 114+75 // Proposed Wall 2 - Station 311+07, Offset 5 feet Left of CL of Wall;	



HRG PROJECT NO.: 8650257
HRG PROJ CONTACT: 257-Str-Bor-Log-04-Oldgn
FILE NAME: IL.pdf-bw-01c1c9
PLOT DRIVER: plot-label.tbl
PEN TABLE:



HRGreen.com
Professional Design Firm
#184-001322

USER NAME : jstrzal	DESIGNED - JMW	REVISED -
	CHECKED - AC	REVISED -
PLOT SCALE :	DRAWN - WJH	REVISED -
PLOT DATE : 11/12/2018	CHECKED - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
THREE OAKS ROAD

SHEET NO. S3 OF S3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	46
CONTRACT NO. 61F42				
ILLINOIS FED. AID PROJECT				

RESTORATION OF WORK AREA

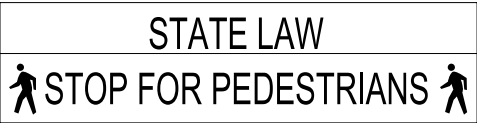
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND.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

1. ALL NEW TRAFFIC SIGNAL EQUIPMENT SHALL ARRIVE AT THE PROJECT SITE WITH A BLACK FACTORY FINISH IN ACCORDANCE WITH THE SPECIFICATIONS.
2. ALL SIGNAGE AND EQUIPMENT FASTENING BANDS SHALL BE BLACK. STAINLESS STEEL WILL NOT BE PERMITTED.

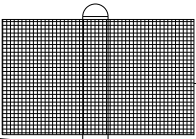
W11-15 (DOUBLE SIDED)
(PED/BIKE SIGN PANEL)



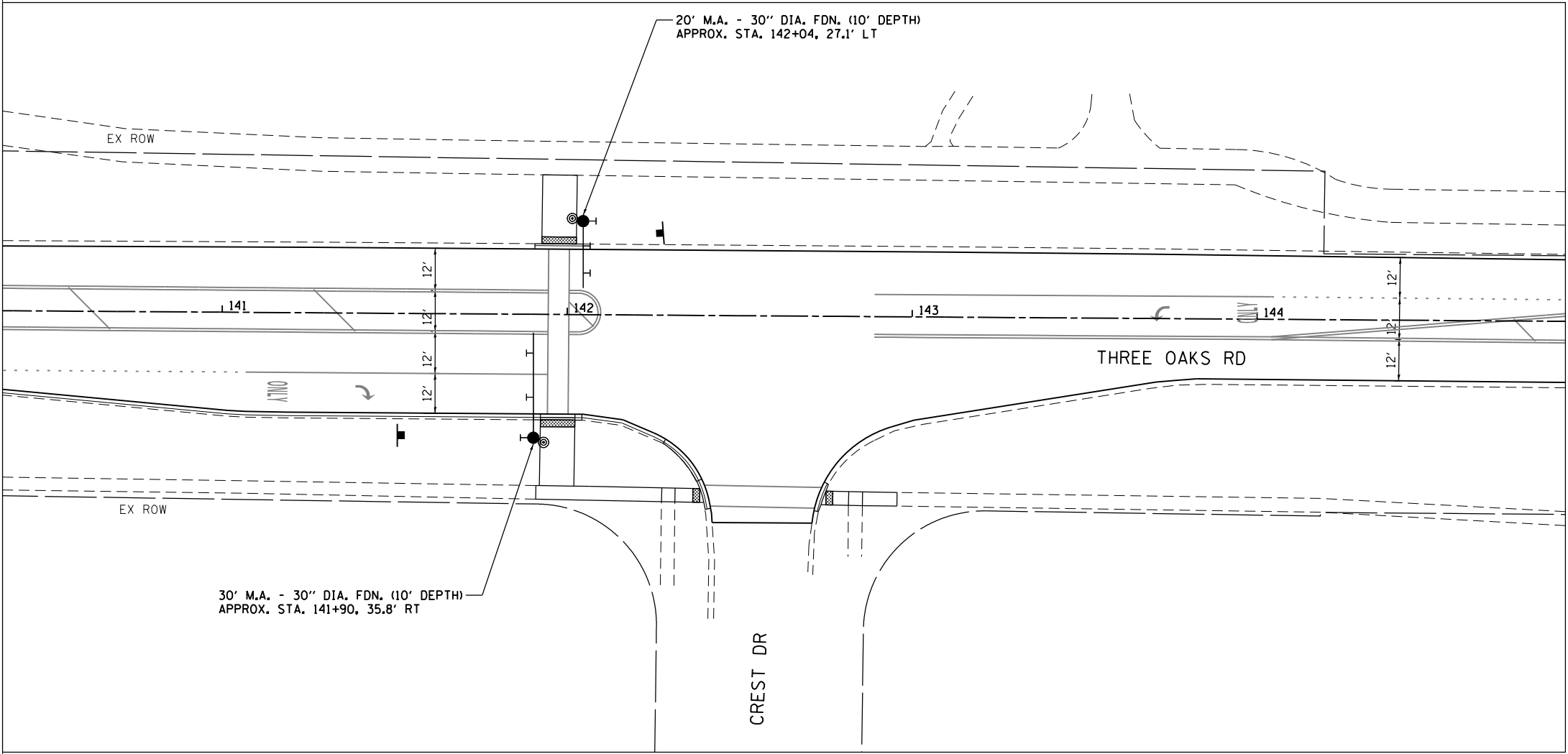
R1-9A



RRFB, SOLAR POWERED
INSTALLATION, BRACKET MOUNTED



20' M.A. - 30" DIA. FDN. (10' DEPTH)
APPROX. STA. 142+04, 27.1' LT



EX ROW

141

142

143

144

THREE OAKS RD

EX ROW

30' M.A. - 30" DIA. FDN. (10' DEPTH)
APPROX. STA. 141+90, 35.8' RT

CREST DR

PLAN VIEW

SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)

DETAIL



W11-15 (2 SIGNS PER POST)
(PED/BIKE SIGN PANEL)



RRFB

W16-7P

6'
36" TO 42"



PED PUSHBUTTON

STEEL MAST ARM ASSEMBLY
PAINTED BLACK



ACCESS DOOR SECURED WITH
STAINLESS STEEL ALLEN
HEAD SCREWS.



CONCRETE FOUNDATION
TYPE E (INCL IN THIS ITEM)

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:15:26 PM
FILE NAME: 257-sht-sig.03.dgn
PLOT DRIVER: ILpdf.bwplotter
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

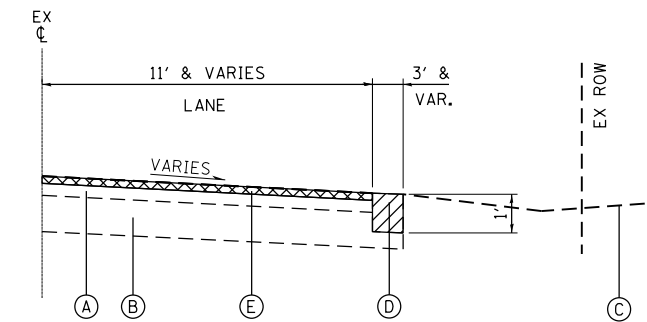
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PLOT SCALE = N.T.S.	CHECKED - AC	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

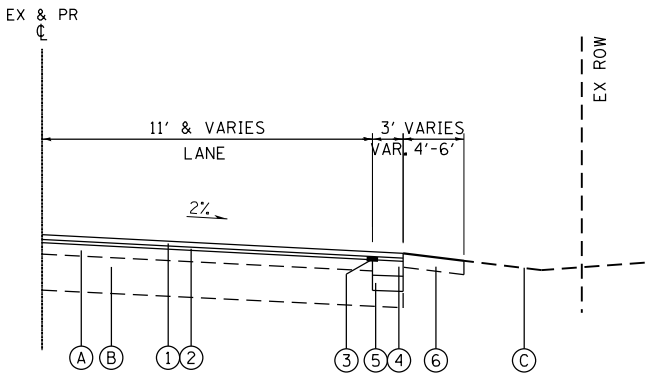
CONSTRUCTION DETAILS
THREE OAKS ROAD

SCALE: N.T.S. SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	47
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



EXISTING



PROPOSED

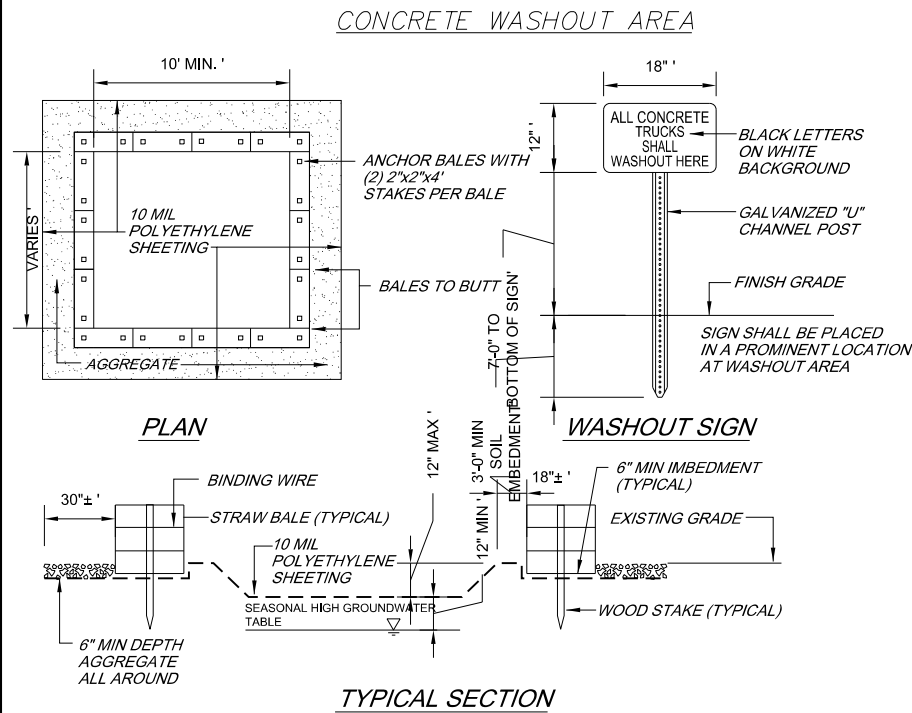
SHOULDERS WIDENING DETAIL

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT; 8'-14"
- (B) EXISTING AGGREGATE BASE COURSE; ±12"
- (C) EXISTING GROUND
- (D) REM & DISP UNS MATERIALS (PER CU YD)
- (E) HOT-MIX ASPHALT SURFACE REMOVAL; 3 1/2"

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 1 1/2" (PER TON)
- (2) HOT-MIX ASPAHLT BINDER COURSE IL-19.0, N70; 2 1/4" (PER TON)
- (3) STRIP REFLECTIVE CRACK CONTROL TREATMENT; 24" WIDTH (PER FOOT)
- (4) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 6" (PER SQ YD)
- (5) AGGREGATE BASE COURSE, TYPE B 6 (PER SQ YD)
- (6) TOPSOIL FURNISH & PLACE, 4" (SQ YD) SEEDING, CLASS 1A (ACRE) EROSION CONTROL BLANKET (SQ YD)



NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.



USER NAME = jstrzel	DESIGNED - JJS	REVISED -
FILE NAME = 257-sht-det.01.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AC	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	48
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

COMPANY NAME: HRGreen
PROJECT CONTACT: J. Strzel
DATE PLOTTED: 11/12/2018 3:15:14 PM
FILE NAME: 257-sht-det.02.dgn
PLOT DRIVER: ILpdf.bwplotcfg
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
184-001322

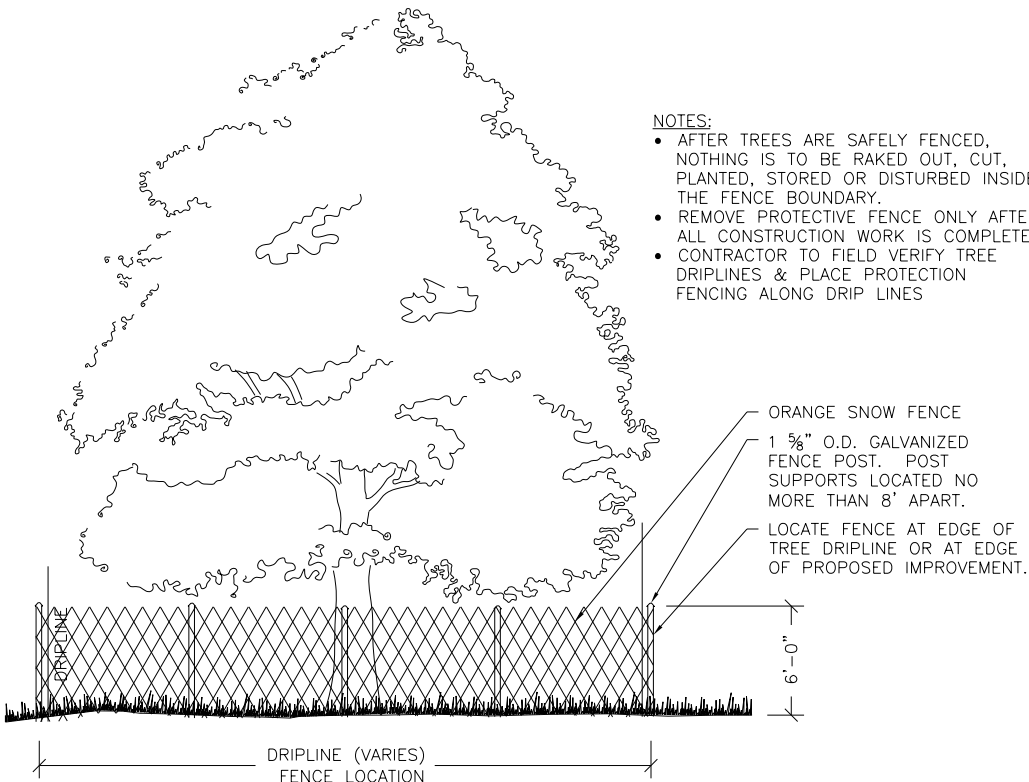
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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

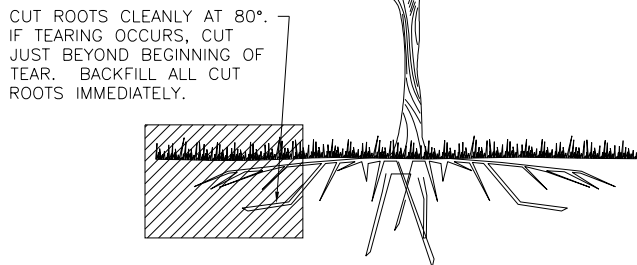
CONSTRUCTION DETAILS
THREE OAKS ROAD

SCALE: N.T.S. SHEET NO. 3 OF 4 SHEETS STA. TO STA.

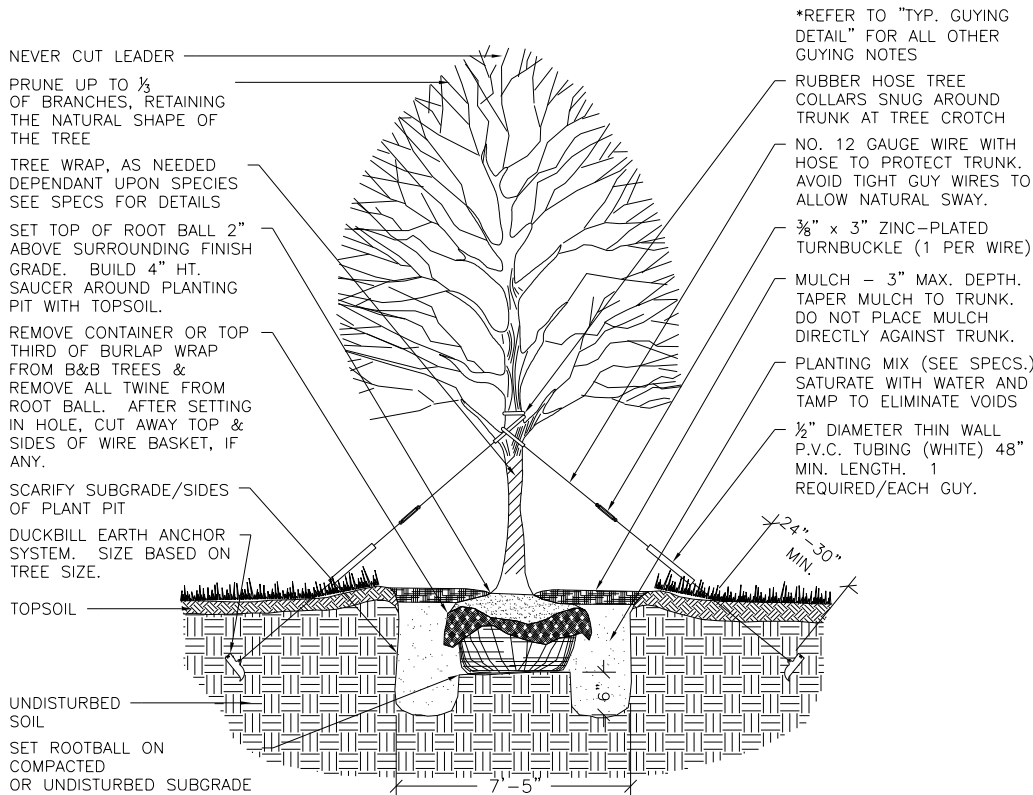
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	49
		CONTRACT NO.		61F42
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



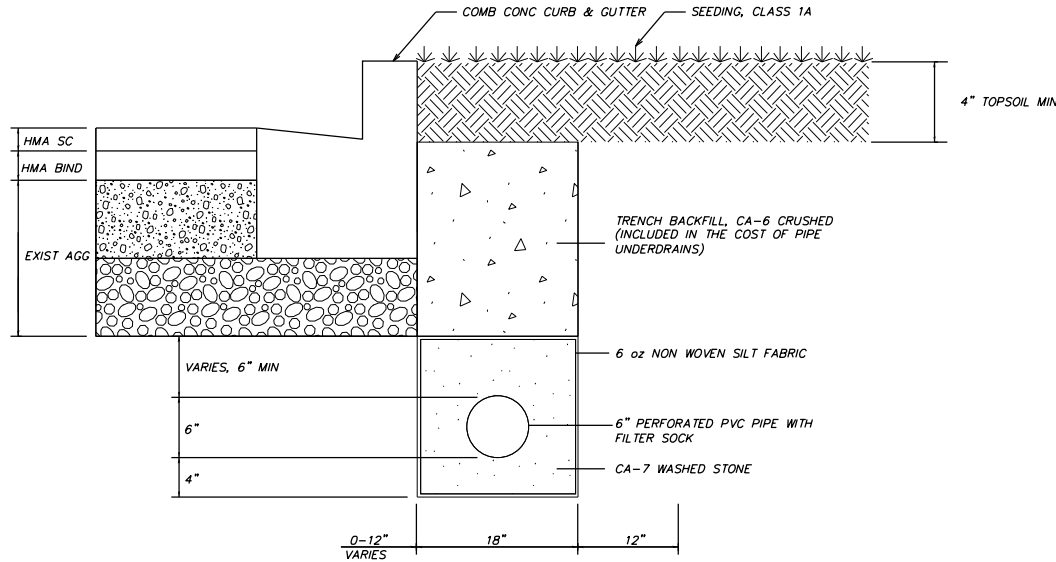
TYP. TREE PROTECTION SNOW FENCE DETAIL
NOT TO SCALE



TYP. ROOT PRUNING DETAIL
NOT TO SCALE



TREE PLANTING DETAIL
NOT TO SCALE



CONSTRUCTION NOTES:
SPRINKLER REPAIR, IF ENCOUNTERED, INCLUDED IN COST OF WORK.
SLOTTED PIPE MAY BE POLYVINYL CHLORIDE (PVC) OR HIGH-DENSITY POLYETHYLENE PIPE (HDPE)
SLOTS WILL BE ON ONE HALF OF THE PIPE ONLY.
THE PIPE UNDERDRAIN SHALL BE PLACED SO THAT SLOTTED HALF FACES UPWARD TOWARDS THE TOP OF THE TRENCH.
THE NON-WOVEN FABRIC SHALL CONTAIN THE AGGREGATE AND PIPE AS DEPICTED ABOVE.

PIPE UNDERDRAINS (SPECIAL)

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 11/12/2018 3:15:38 PM
FILE NAME: 257-str-det.03.dgn
PLOT DRIVER: ILpdf.bwplotcfg
PEN TABLE: plotlabel.tbl



HRGreen.com
Illinois Professional Design Firm
184-001322

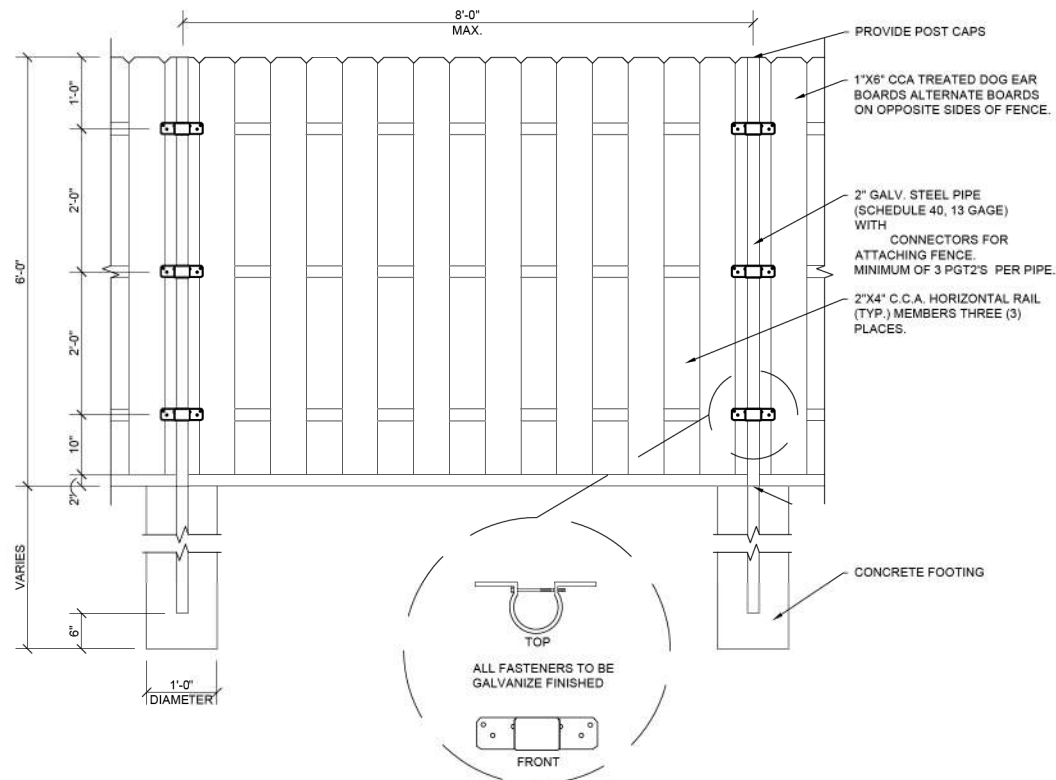
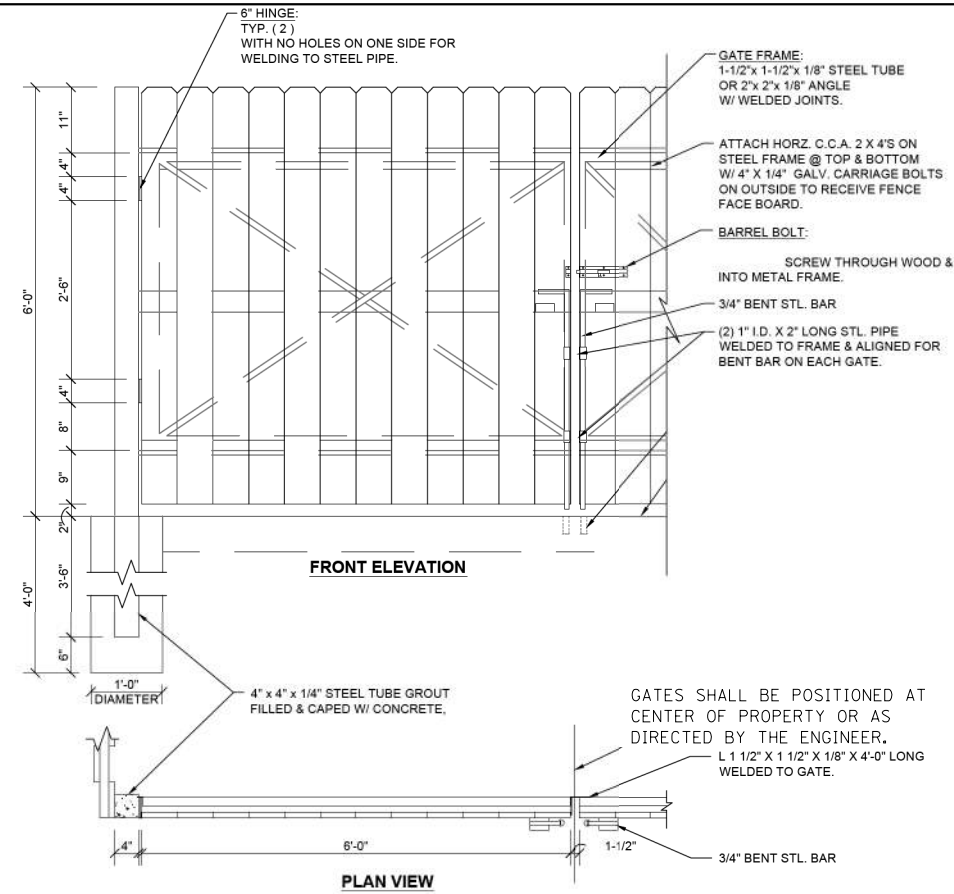
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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

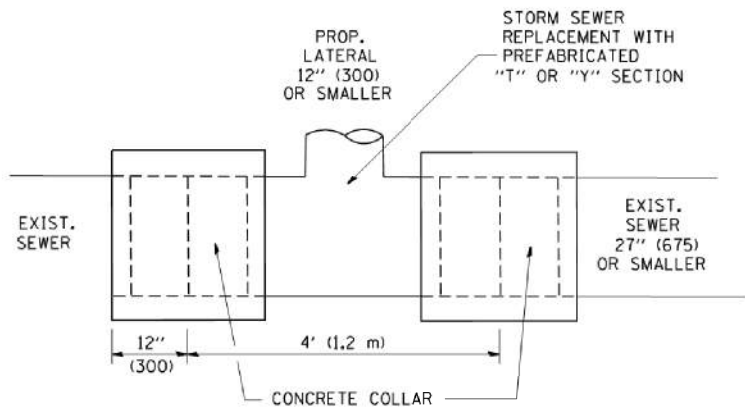
CONSTRUCTION DETAILS
THREE OAKS ROAD

SCALE: N.T.S. SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	50
CONTRACT NO.			61F42	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

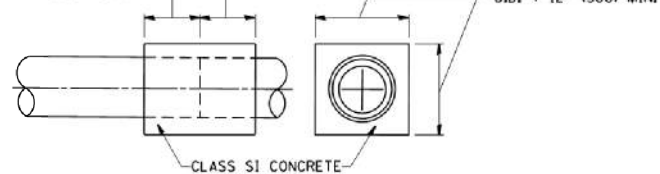
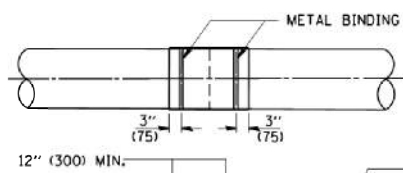
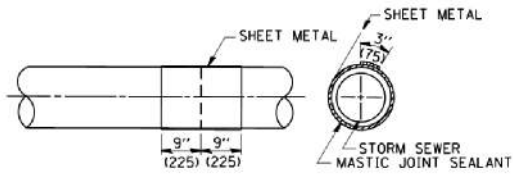
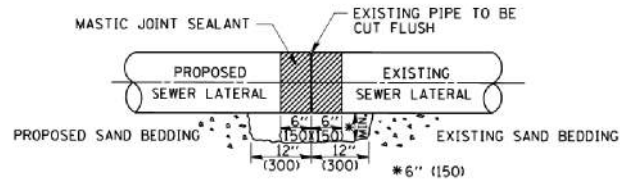


NOTE:
ALL METAL PARTS SHALL BE GALVANIZED.



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

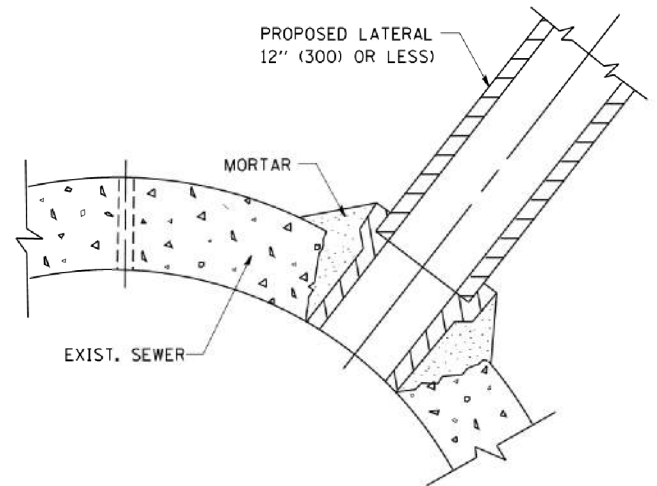


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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PROJECT CONTACT: \$PROJECT_CONTACT\$
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DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 07-25-90

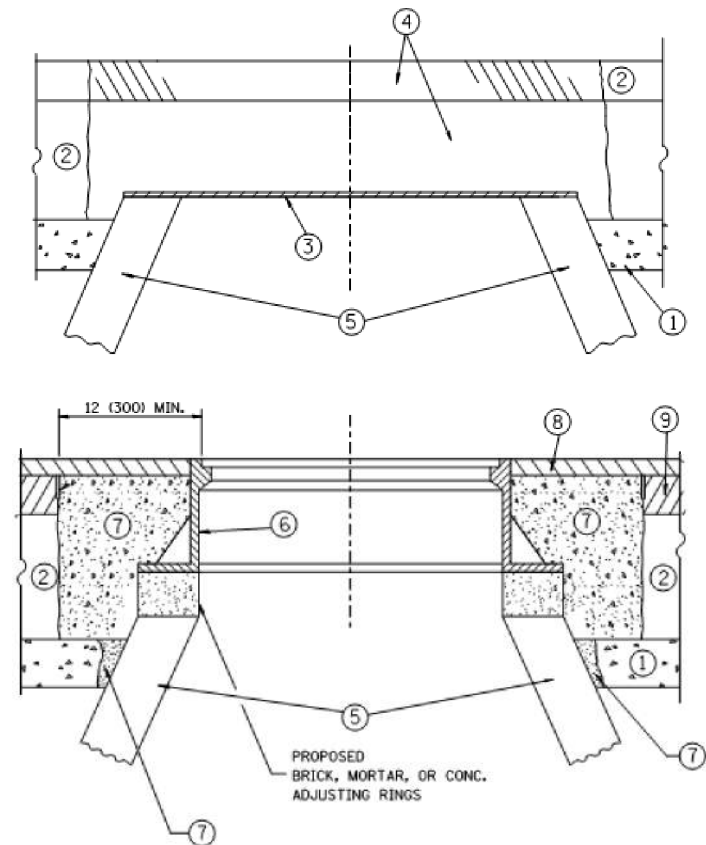
REVISED - M. DE YONG 05-08-92
REVISED - R. SHAH 09-09-94
REVISED - R. SHAH 10-25-94
REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	51
BD500-01 (BD-7)		CONTRACT NO.		61F42
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1# CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-1# CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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		DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-R5	MCHENRY	72	52
BD600-03 (BD-8)		CONTRACT NO. 61F42		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING
DIMENSIONS AND FIELD CONDITIONS
(SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT
IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF
SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL
PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

18" (450)
MAX.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN
SURFACE OR SEEDING, CLASS 1A
WITH TOP SOIL, 4" (100)
SEE NOTE 2 FOR SEED RESTORATION.

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL
(INCLUDED IN THE COST OF CURB OR CURB
AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE
SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST
OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY
THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR
MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE
COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN
ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT
24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY
COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED
BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER
FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR
"COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH
WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL
BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

② RESTORATION BEHIND THE BACK OF CURB WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT.

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING
CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE
PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE
NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED
IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE
INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL
BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606
OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER
SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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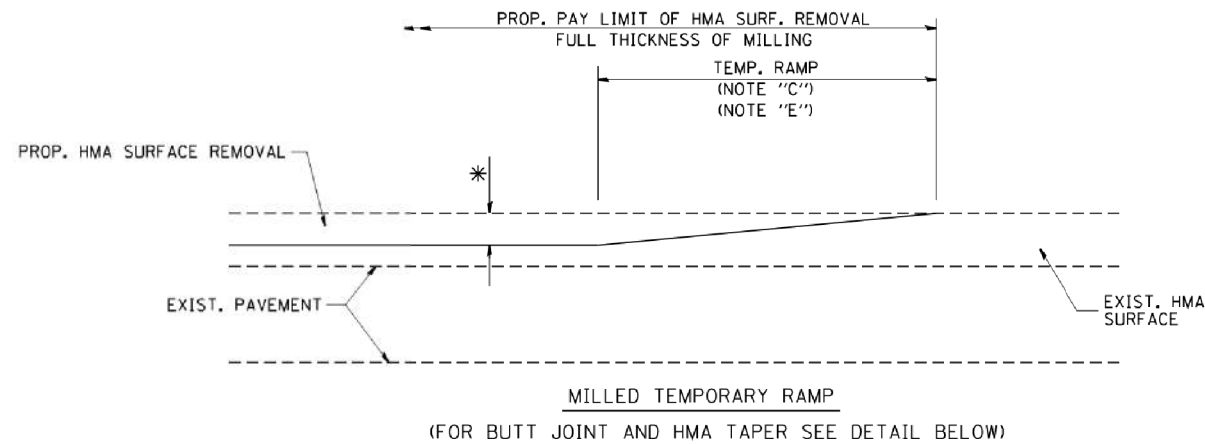
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

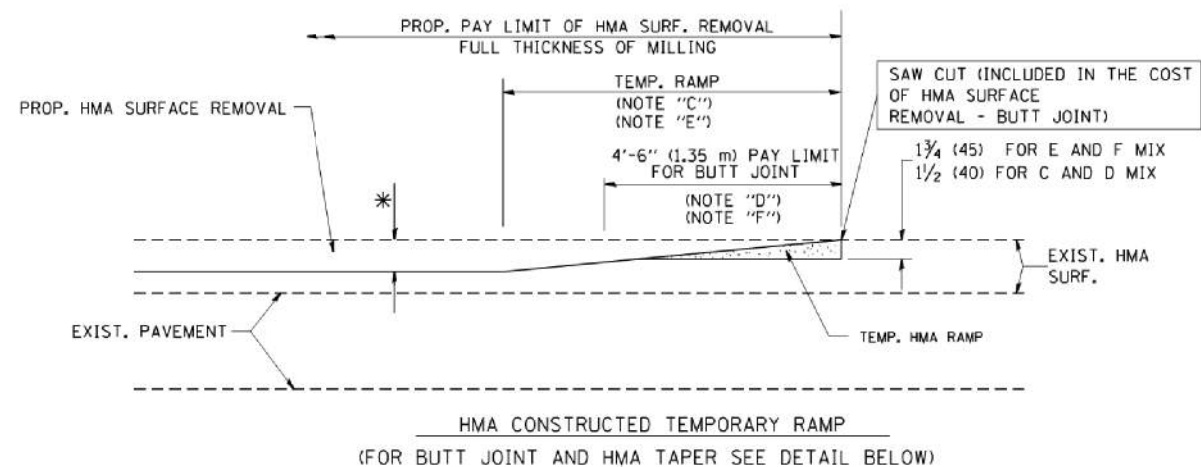
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BD600-06 (BD-24)		CONTRACT NO.		61F42
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

COMPANY NAME: MCHENRY
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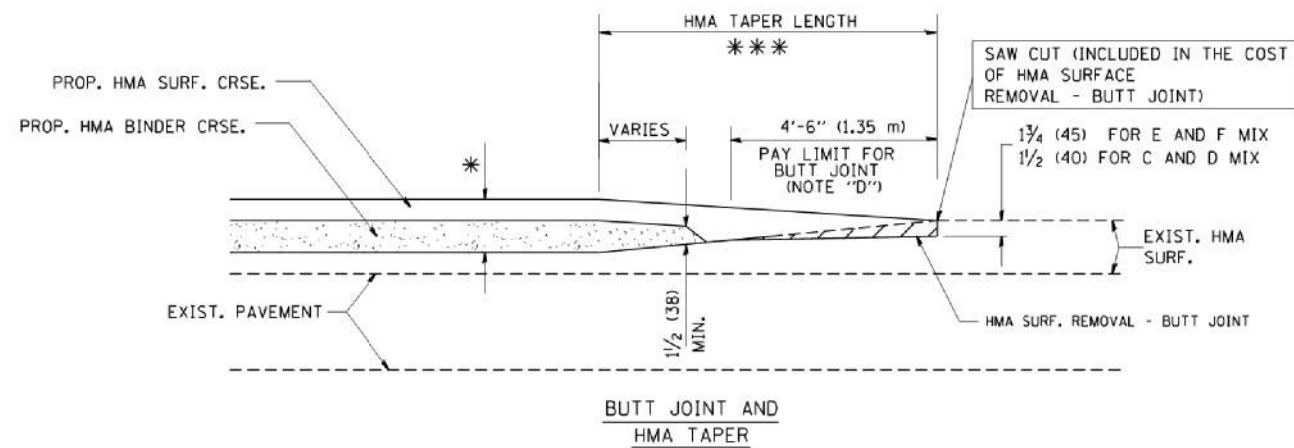


OPTION 1

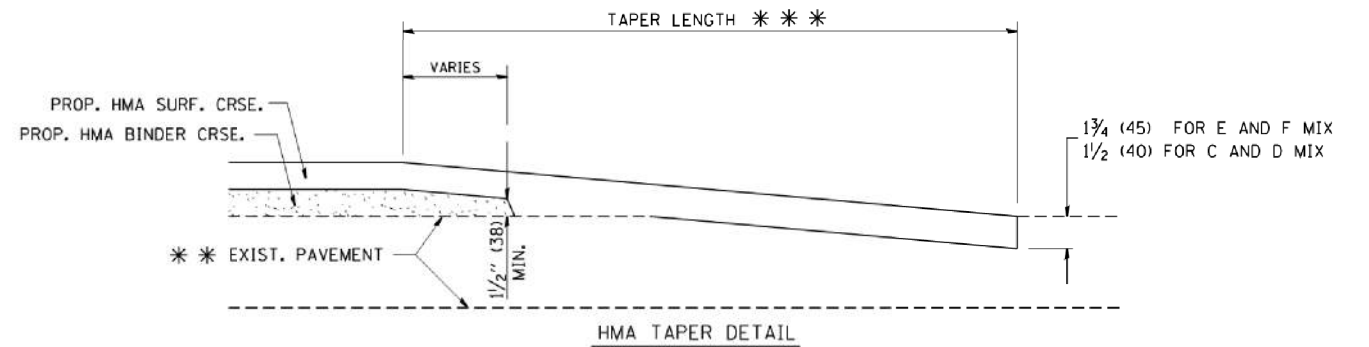
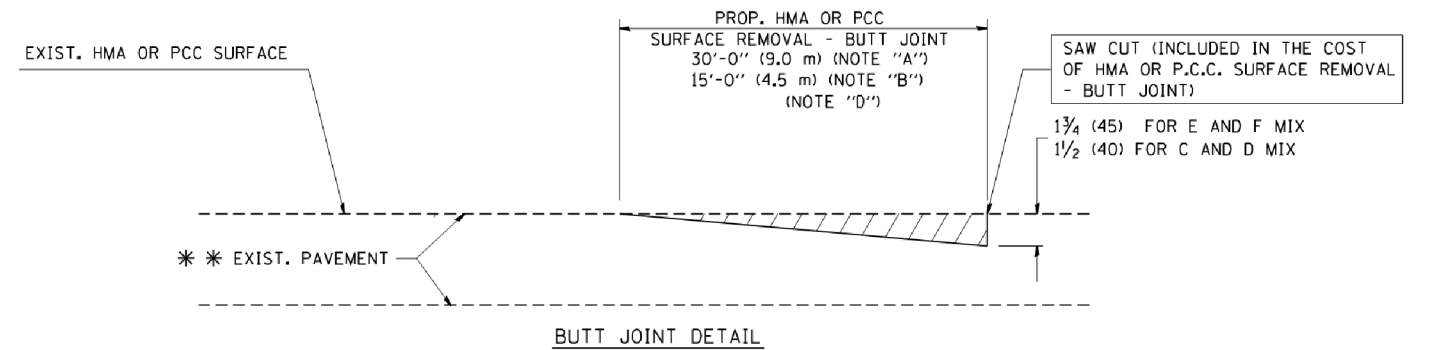


OPTION 2

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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	PLOT DATE = 1/4/2008	DATE = 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	54
BD400-05 BD32		CONTRACT NO.	61F42	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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PROJECT CONTACT: \$PROJECT_CONTACT\$
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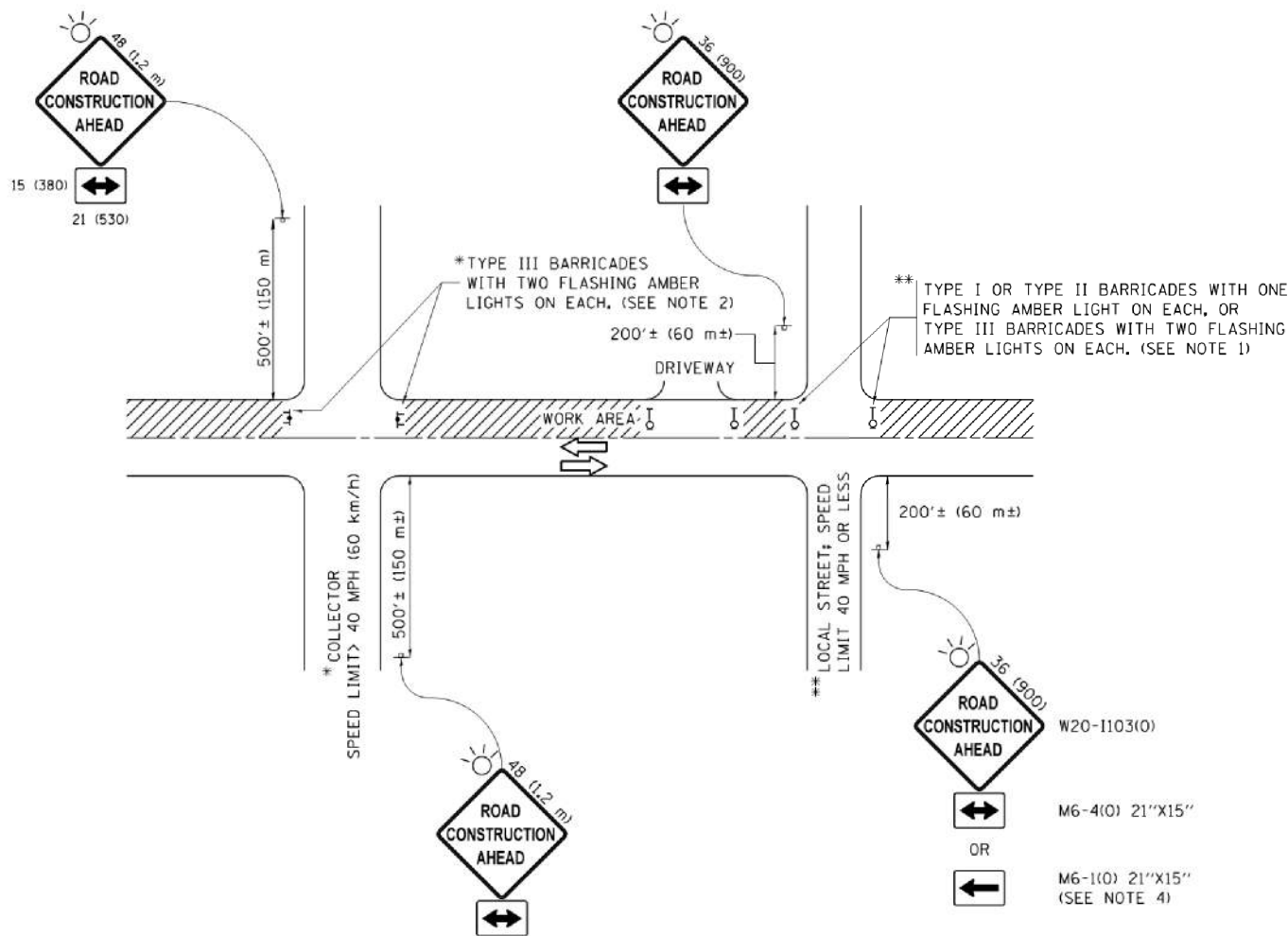
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

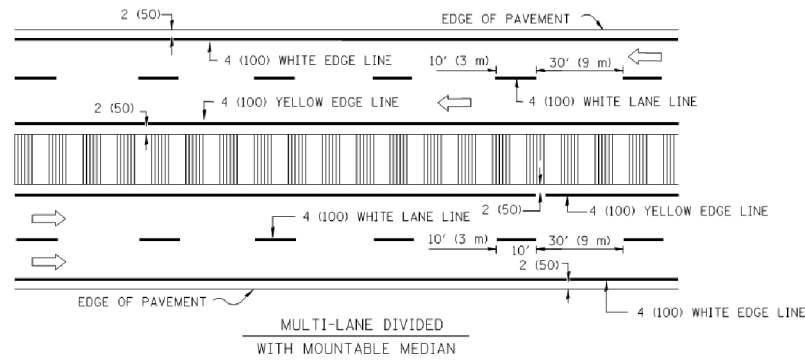
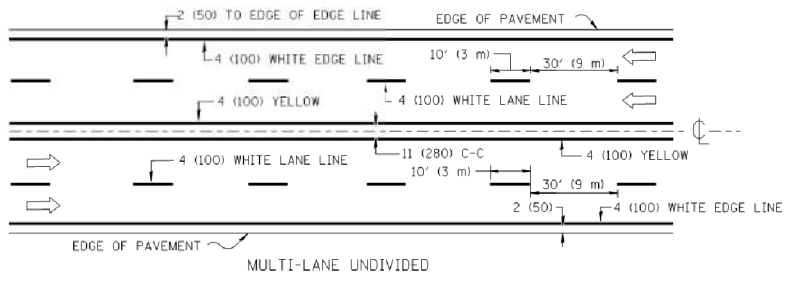
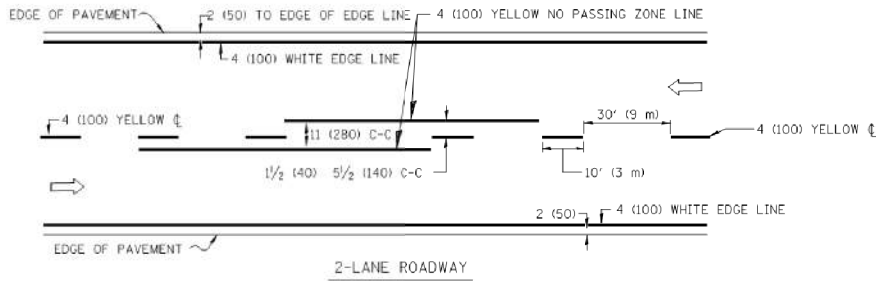
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unless otherwise shown.

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TC-10		CONTRACT NO. 61F42		
ILLINOIS FED. AID PROJECT				



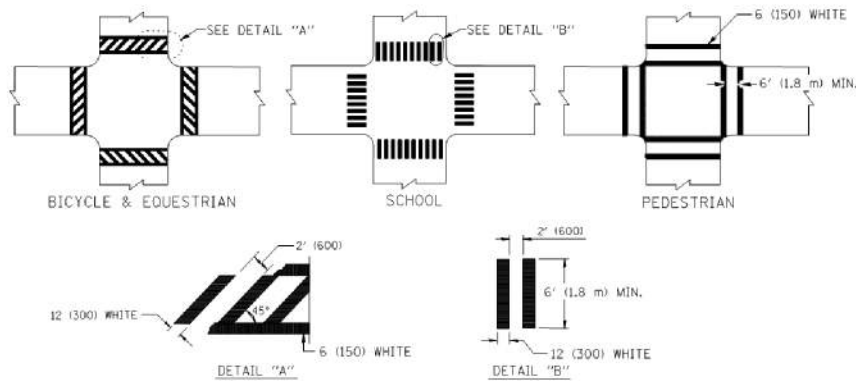
NOTES:

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

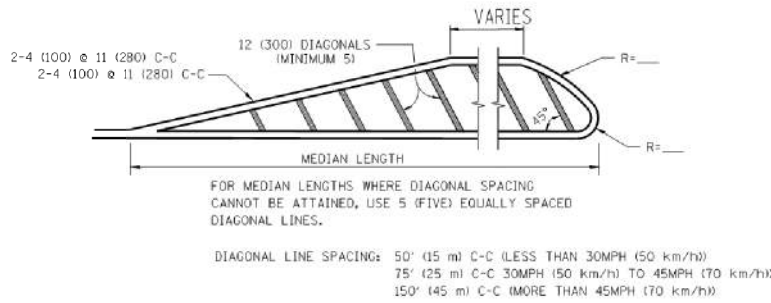
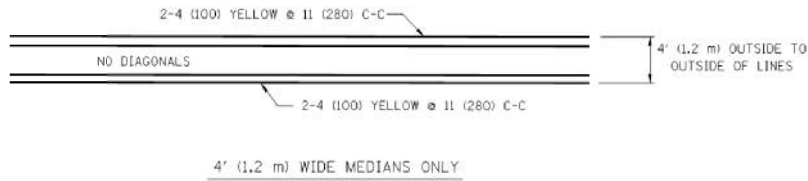


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

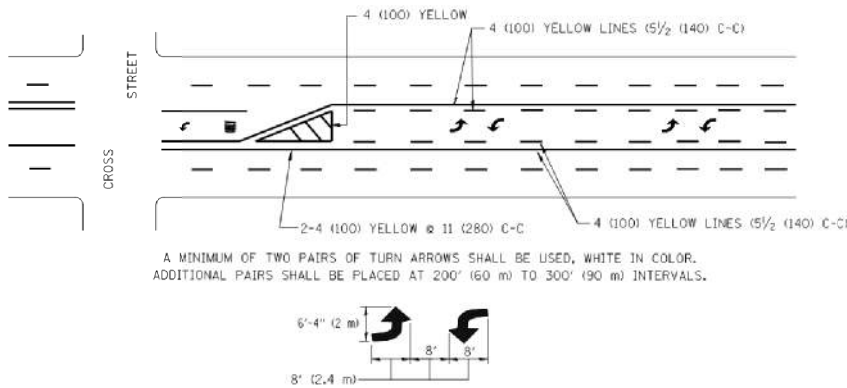
TYPICAL LANE AND EDGE LINE MARKING



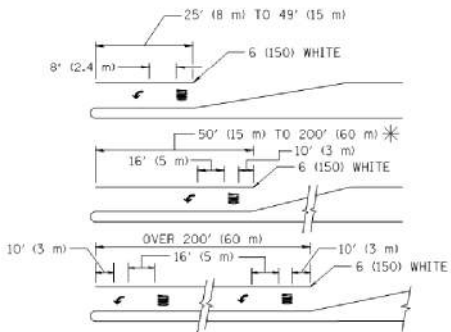
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE



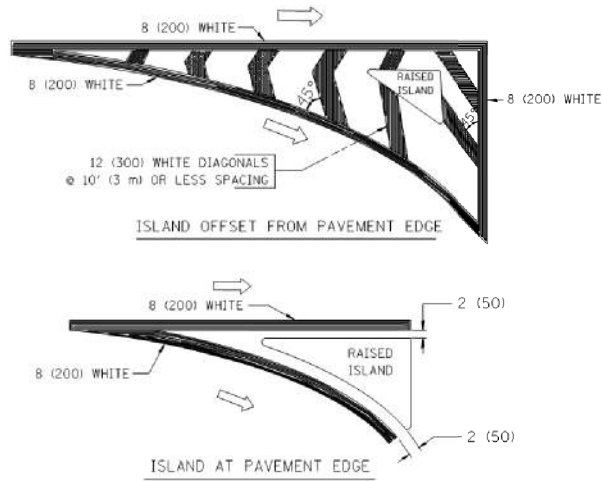
TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

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

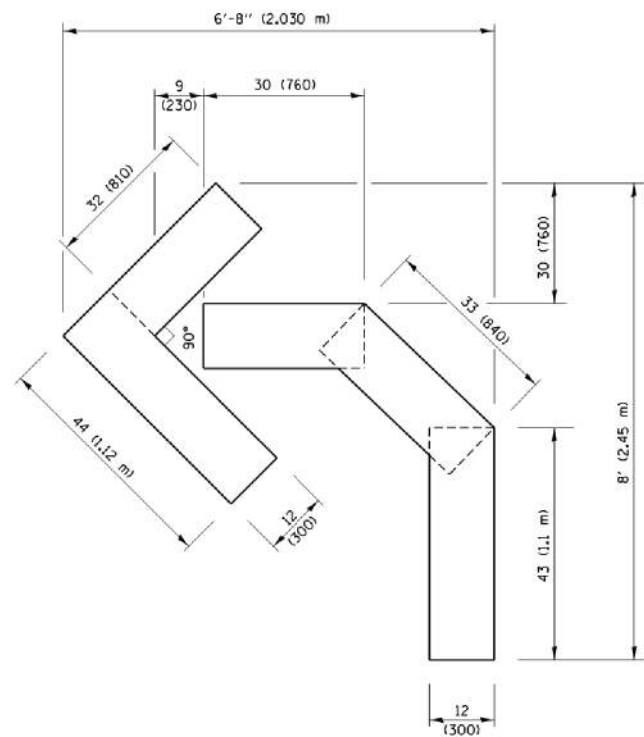
All dimensions are in inches (millimeters) unless otherwise shown.

COMPANY NAME: MCHENRY
PROJECT CONTACT: 15-00065-00-RS
DATE PLOTTED: 11/12/2018 3:17:05 PM
FILE NAME: 257-str-det.tbl
PLOT DRIVER: 11eaf.bwpl
PEN TABLE: plotlabel.tbl

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PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -	

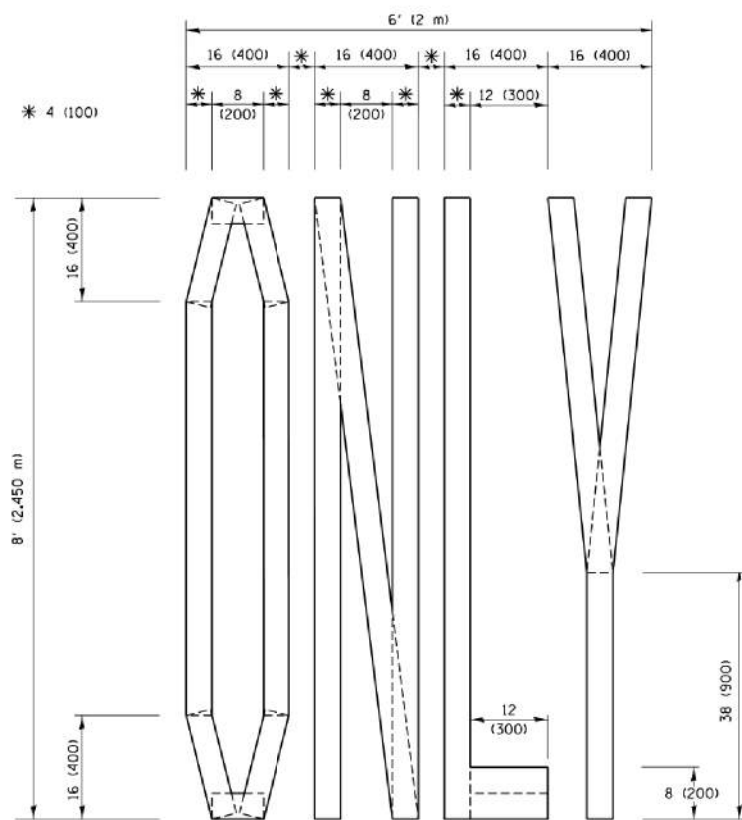
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
TYPICAL PAVEMENT MARKINGS				4051	15-00065-00-R5	MCHENRY	72	56	
				TC-13		CONTRACT NO. 61F42			
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



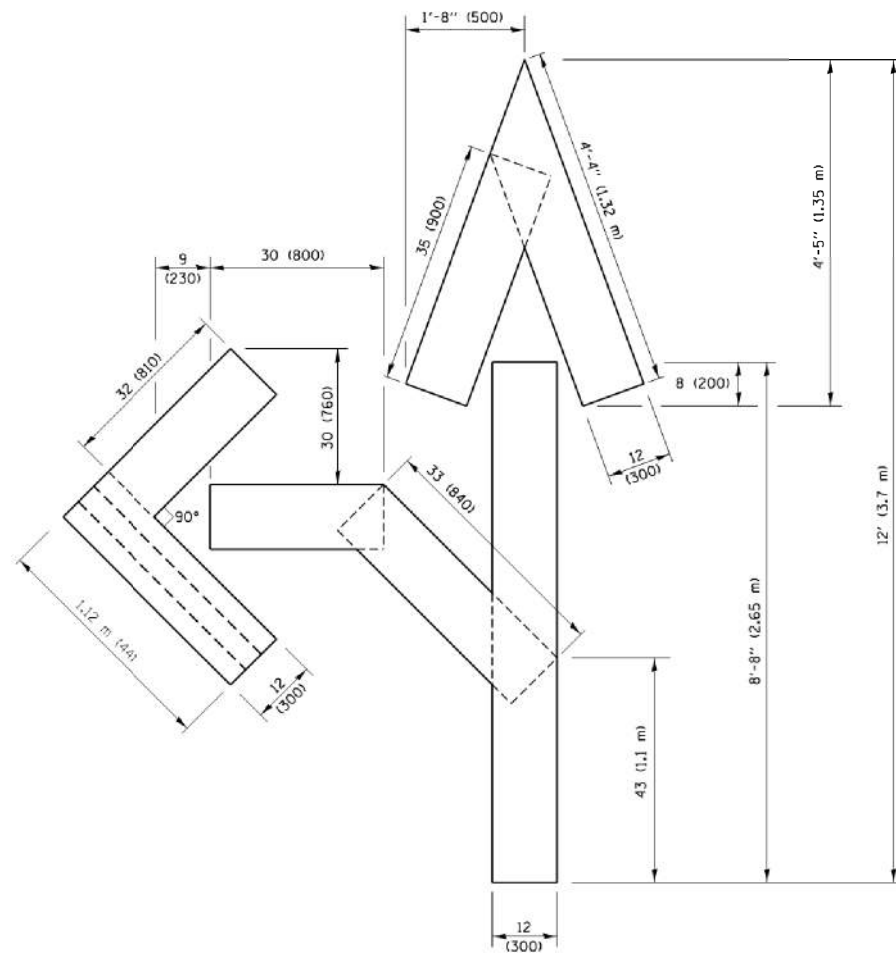
QUANTITY

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



QUANTITY

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

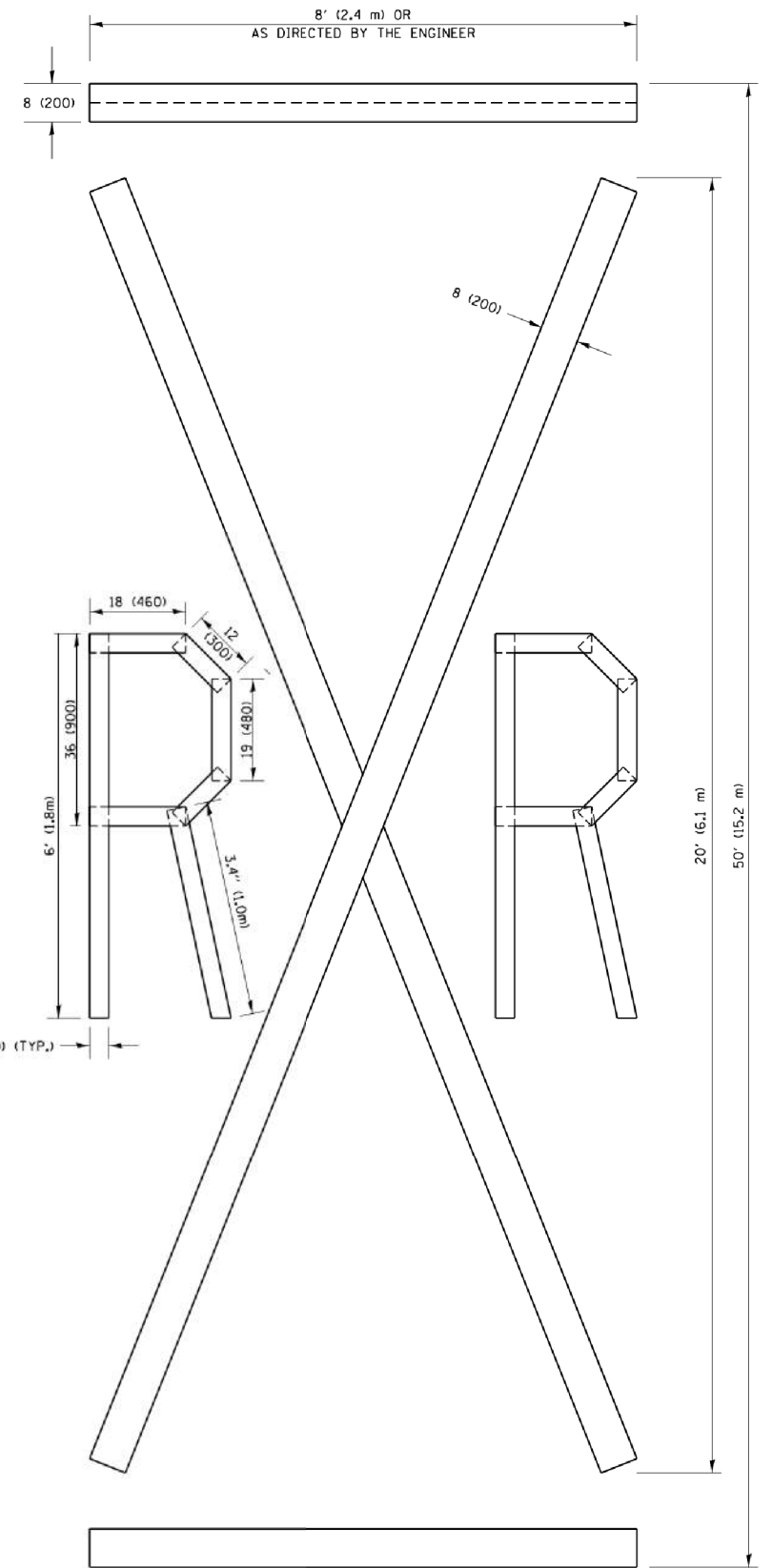


QUANTITY

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

NOTE:

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



QUANTITY

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

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

COMPANY NAME: \$COMPANY_NAME\$
PROJECT CONTACT: \$PROJECT_CONTACT\$
DATE PLOTTED: 11/12/2018 3:12:20 PM
FILE NAME: 257-shr-det-rc16.dgn
PLOT DRIVER: ILpdf.bwpltrf9
PEN TABLE: plotlabel.tbl

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	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -E. GOMEZ 08-28-00
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

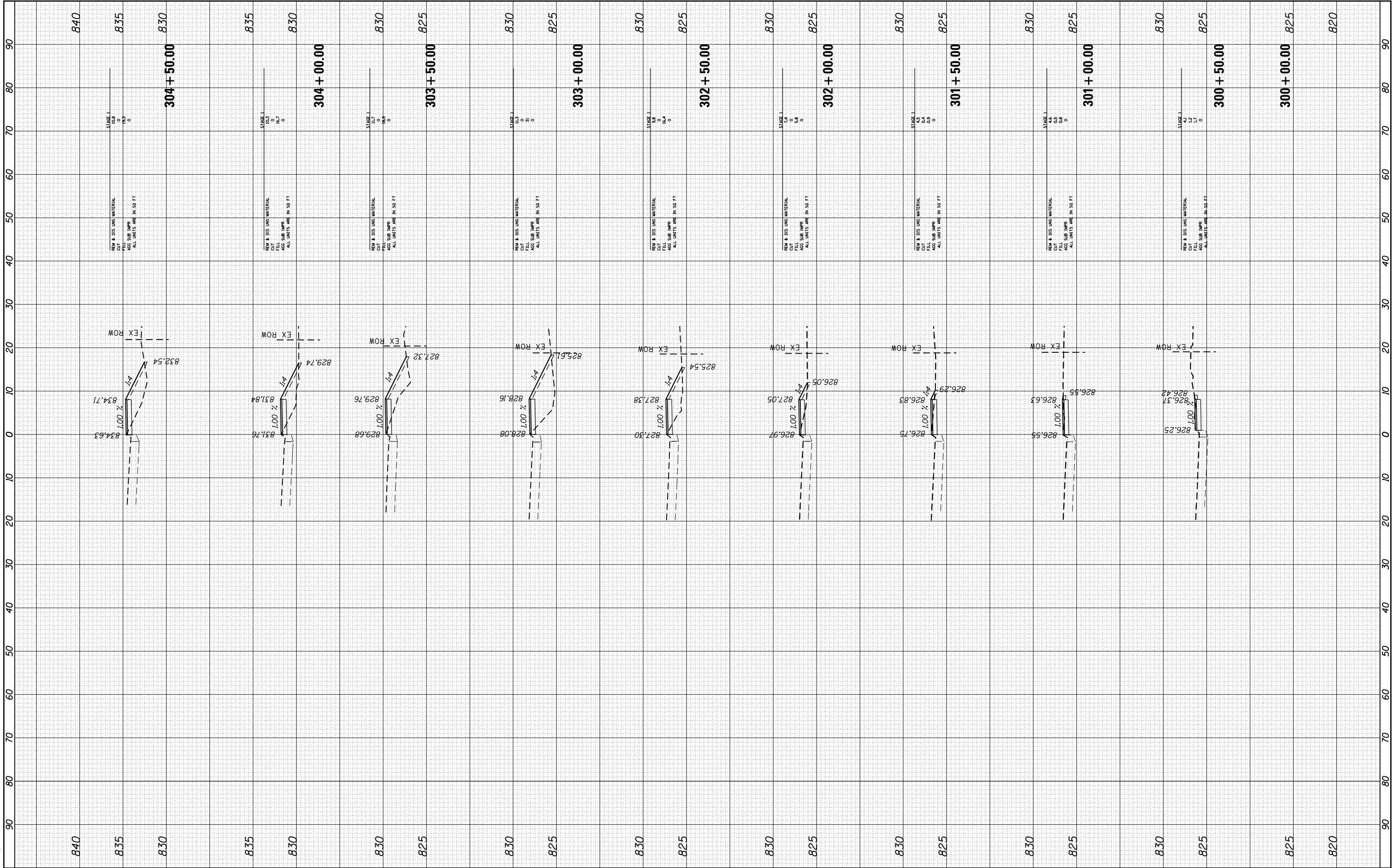
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

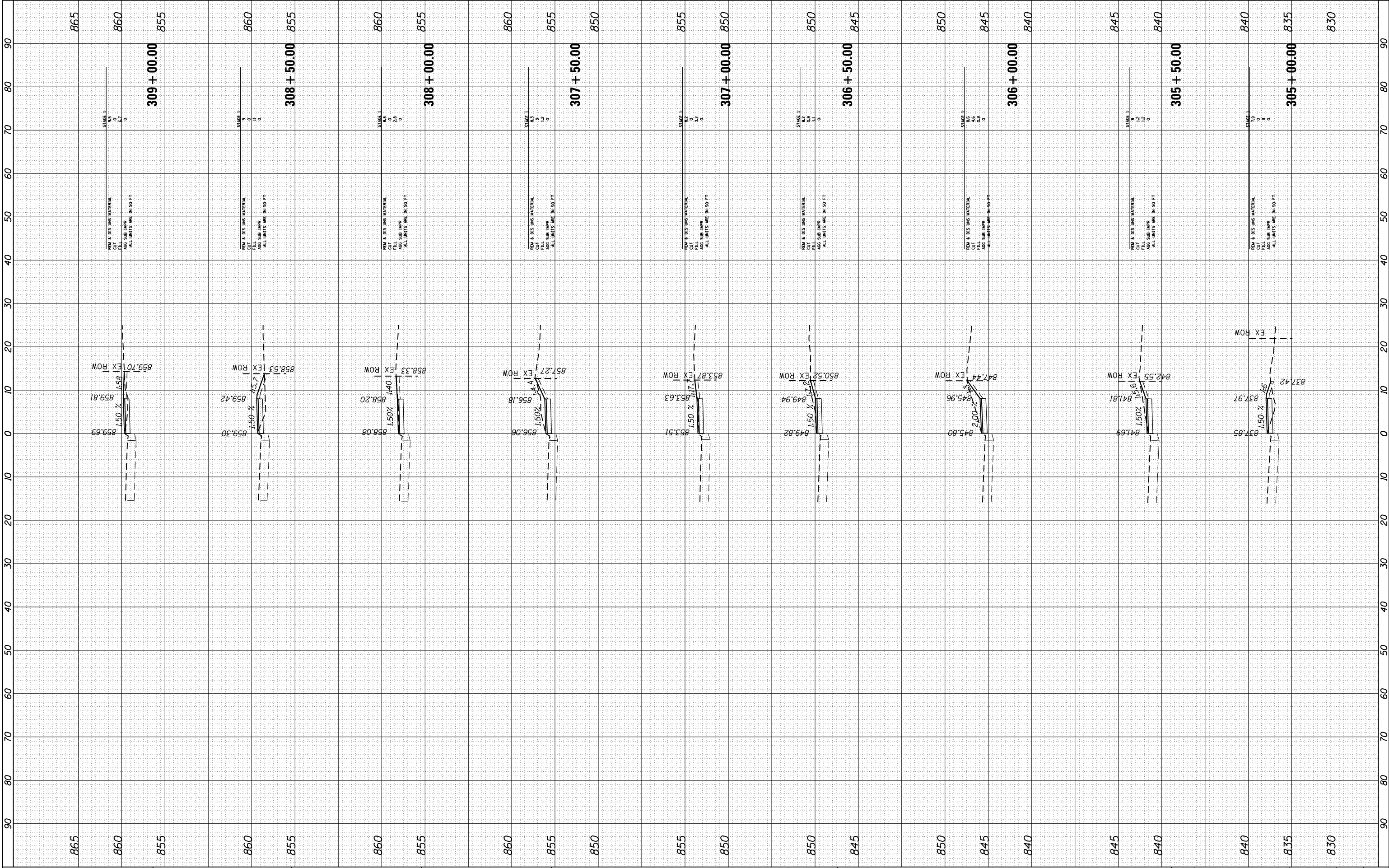
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	57
TC-16		CONTRACT NO.	61F42	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

HRG PROJECT NO.: 8650257
FILE NAME: 257-sht-xs-prbikel.dgn
PLOT DRIVER: ilpdf.plt
PEN TABLE: plottbl.tbl



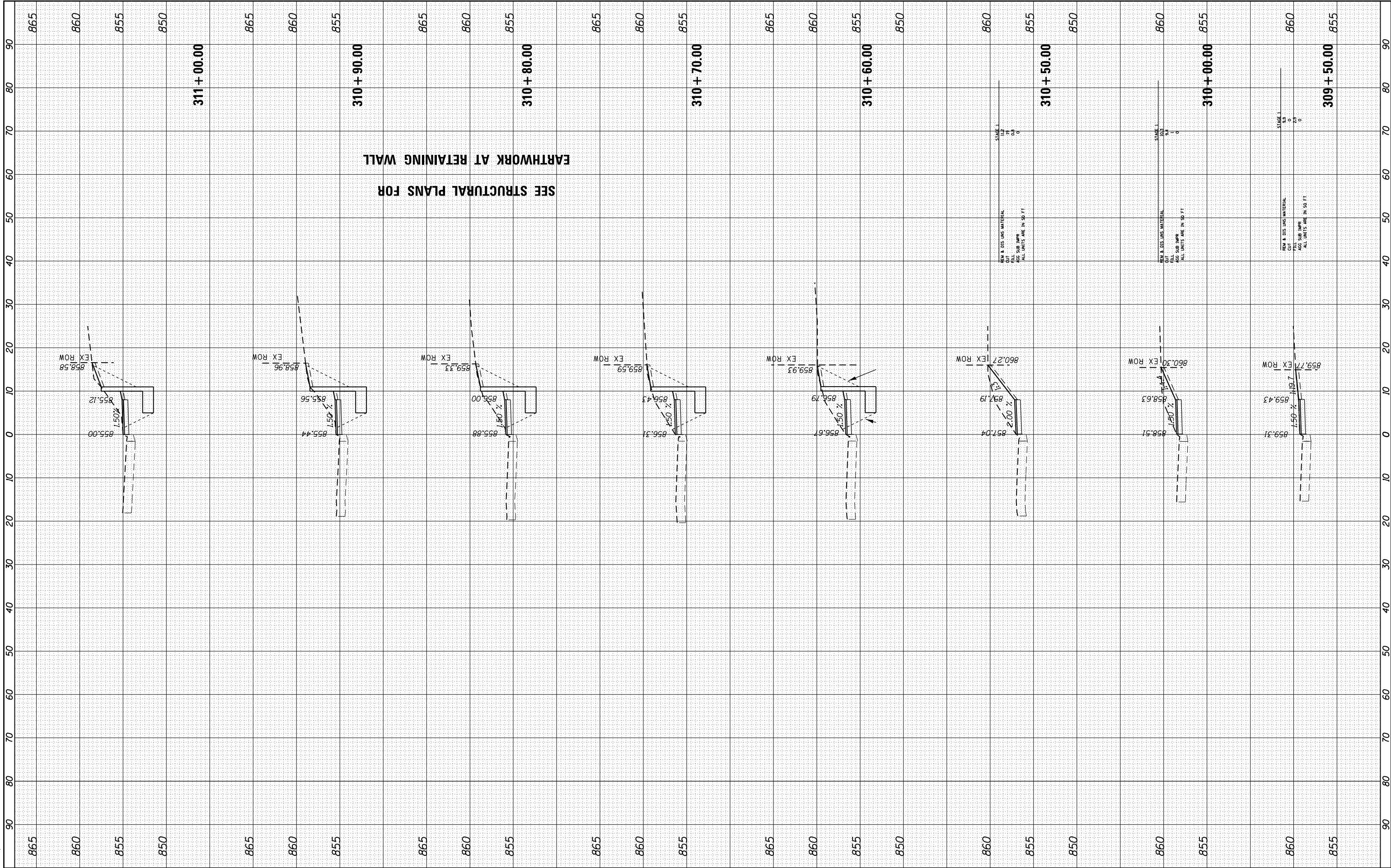
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	PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -		SCALE: 1"=10'	SHEET NO. 1 OF 8 SHEETS	STA. 300+00.00 TO STA. 304+50.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HRG PROJECT NO.: 8650257
FILE NAME: 257-sht-xs-prbikel.dgn
PLOT DRIVER: ilpdf.plw,sh-cfg
PEN TABLE: plottbl.tbl



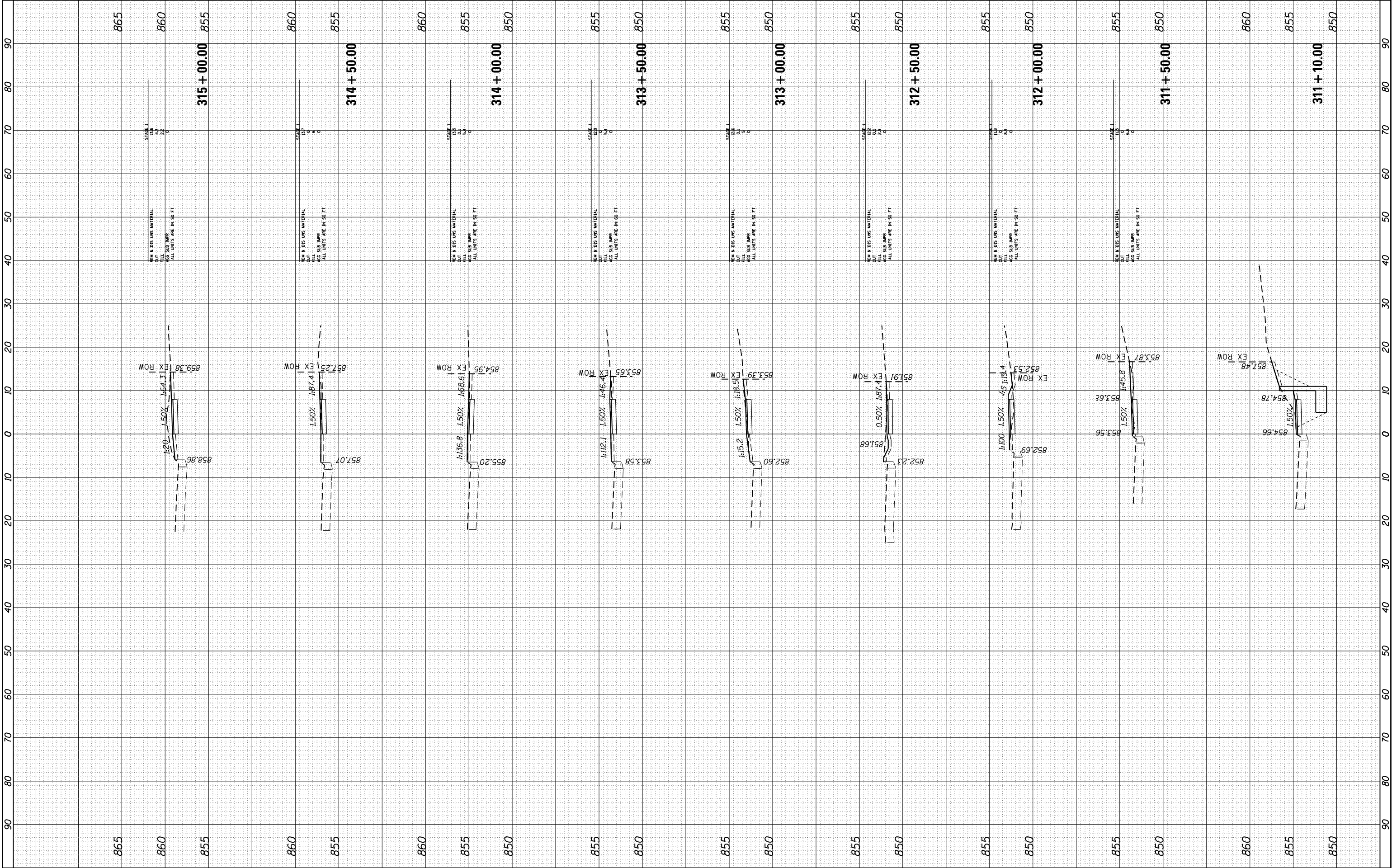
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	PLOT SCALE = 1"=10'	CHECKED - AC	REVISED -					CONTRACT NO. 61F42				
	PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	SCALE: 1"=10'				SHEET NO. 2 OF 8 SHEETS		STA. 305+00.00 TO STA. 309+00.00					

HRG PROJECT NO.: 8650257
DRAWN BY: JST
FILE NAME: 257-sht-xs-prbikel.dgn
PLOT DRIVER: lldrf, lw, sh, ctf, g
PEN TABLE: plot.tbl

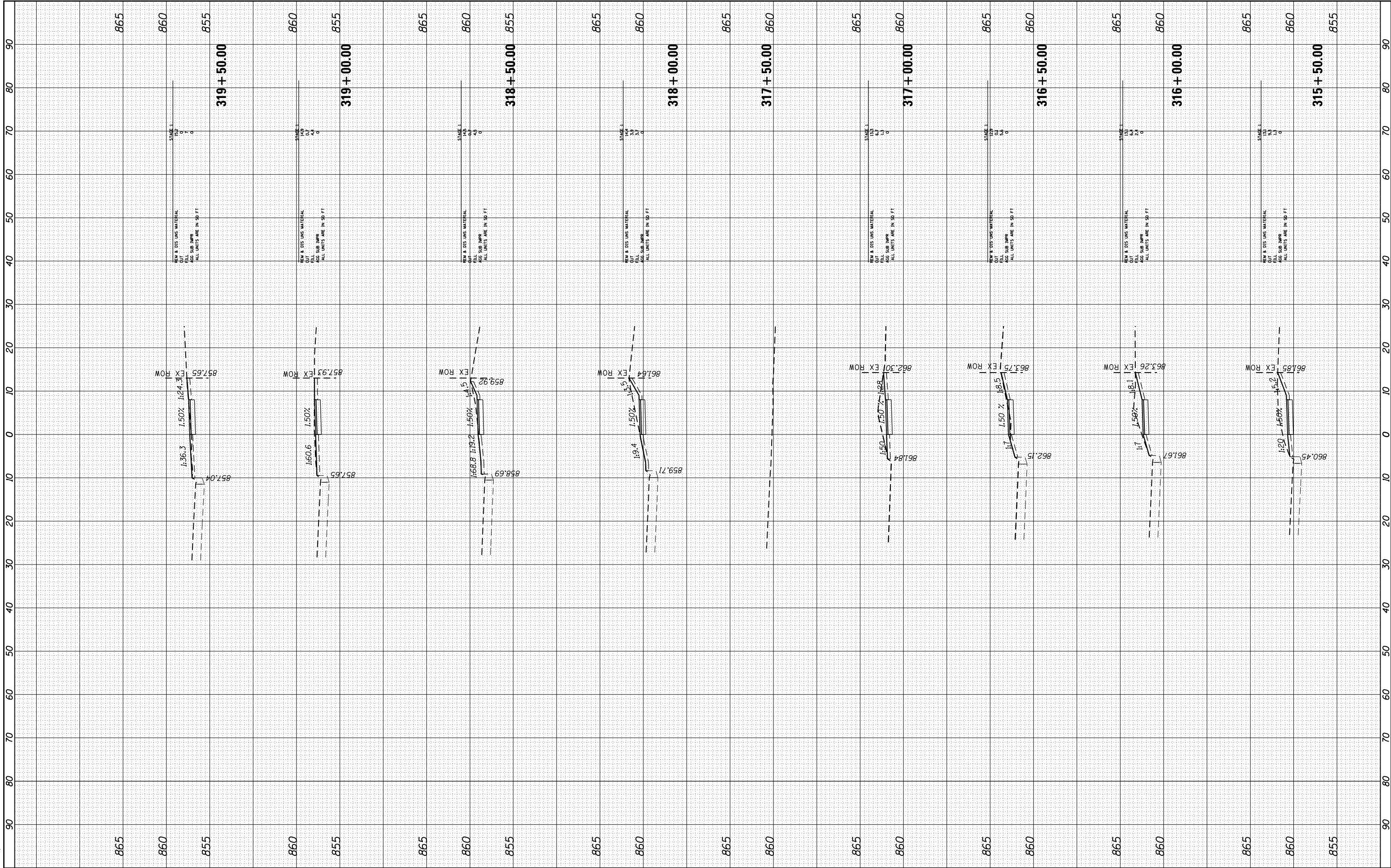


 HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = jstrzel	DESIGNED - JJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS THREE OAKS ROAD SIDEPATH			F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 257-sht-xs-prbikel.dgn	DRAWN - DMS	REVISED -		4051	15-00065-00-RS	MCHENRY	72	61			
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	PLOT DATE = 11/12/2018	DATE = 08/10/18	REVISED -		FED. ROAD DIST. NO.							
	ILLINOIS FED. AID PROJECT											
					SCALE: 1"=10'	SHEET NO. 3 OF 8 SHEETS	STA. 309+50.00 TO STA. 311+00.00					

HRG PROJECT NO.: 8650257
DRAWN BY: JJS
FILE NAME: 257-sht-xs-prbik.dgn
PLOT DRIVER: lwpd, lwplotcf
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HRG PROJECT NO.: 8650257
DRAWN BY: JST
FILE NAME: 257-sht-xs-prbik.dgn
PLOT DRIVER: lwpdf, lwplotcf
PEN TABLE: plottbl.tbl





HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = jst	DESIGNED - JJS	REVISED -
FILE NAME = 257-sht-xs-prbik.dgn	DRAWN - DMS	REVISED -
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PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
THREE OAKS ROAD SIDEPATH

SCALE: 1"=10' SHEET NO. 5 OF 8 SHEETS STA. 315+50.00 TO STA. 319+50.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	63
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 61F42				

HRG PROJECT NO.: 86/50257

HRG PROJ. CONTACT:

PL01 DRIVER:
PFN TARI F.



HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME	= jstrzol
FILE NAME	= 257-sht-xs-prbikel.dgn
PLOT SCALE	= 1'=10'
PLOT DATE	= 11/12/2018

DESIGNED	-	JJS
DRAWN	-	DMS
CHECKED	-	AC
DATE	-	08/10/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
THREE OAKS ROAD SIDEPATH

SCALE: 1"=10'	SHEET NO. 6 OF 8 SHEETS	STA. 320+00.00 TO STA. 323+50.00
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F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	64
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HRG PROJECT NO.: 8650257
DRAWN BY: JJS
FILE NAME: 257-sht-xs-prbikel.dgn
PLOT DRIVER: lwpd, lwplotcf
PEN TABLE: plottbl.tbl



HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = jstrzel
FILE NAME = 257-sht-xs-prbikel.dgn
PLOT SCALE = 1"=10'
PLOT DATE = 11/12/2018

DESIGNED - JJS
DRAWN - DMS
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DATE - 08/10/18

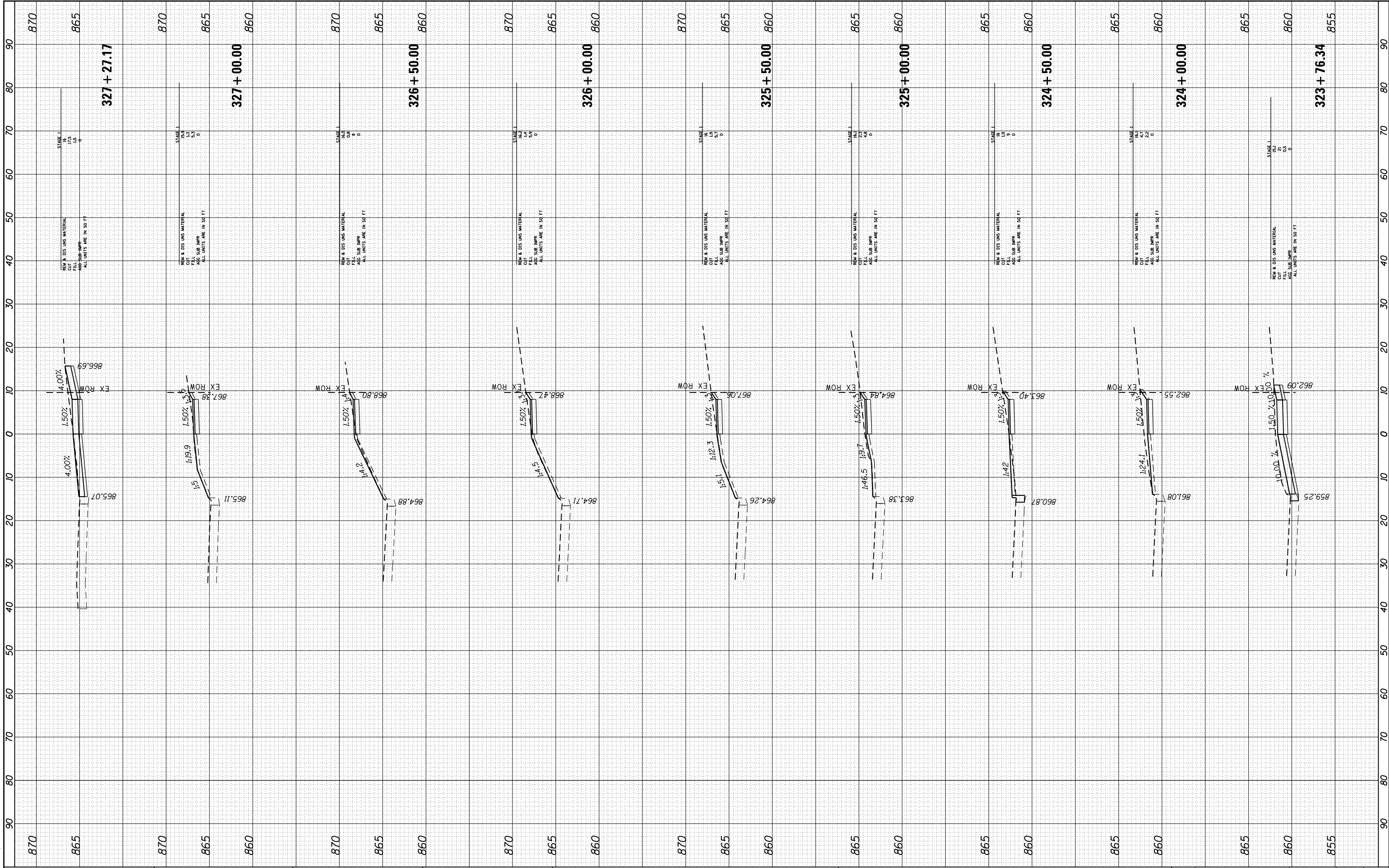
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

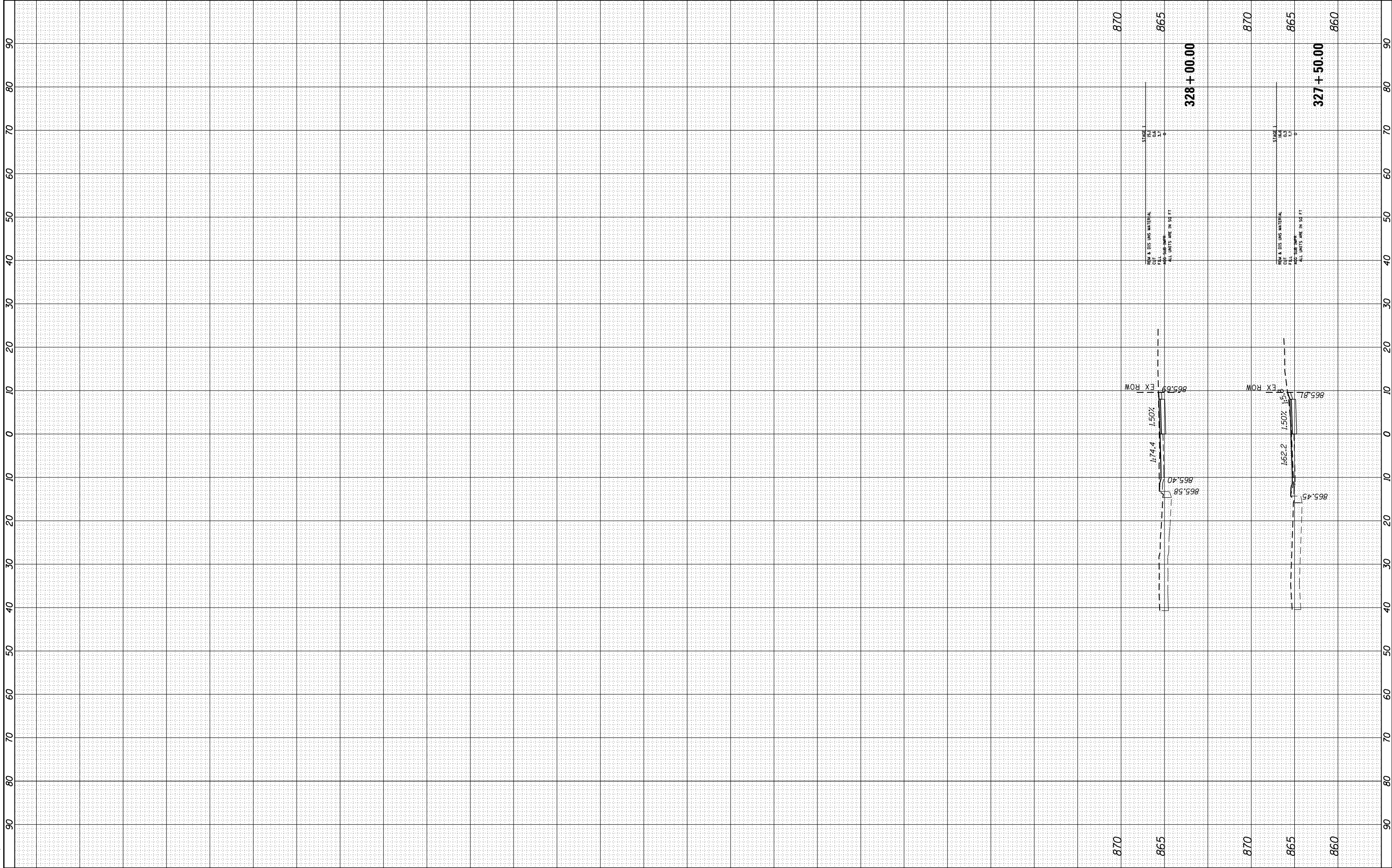
CROSS SECTIONS
THREE OAKS ROAD SIDEPATH

SCALE: 1"=10' SHEET NO. 7 OF 8 SHEETS STA. 323+76.34 TO STA. 327+27.17

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	65
CONTRACT NO. 61F42				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

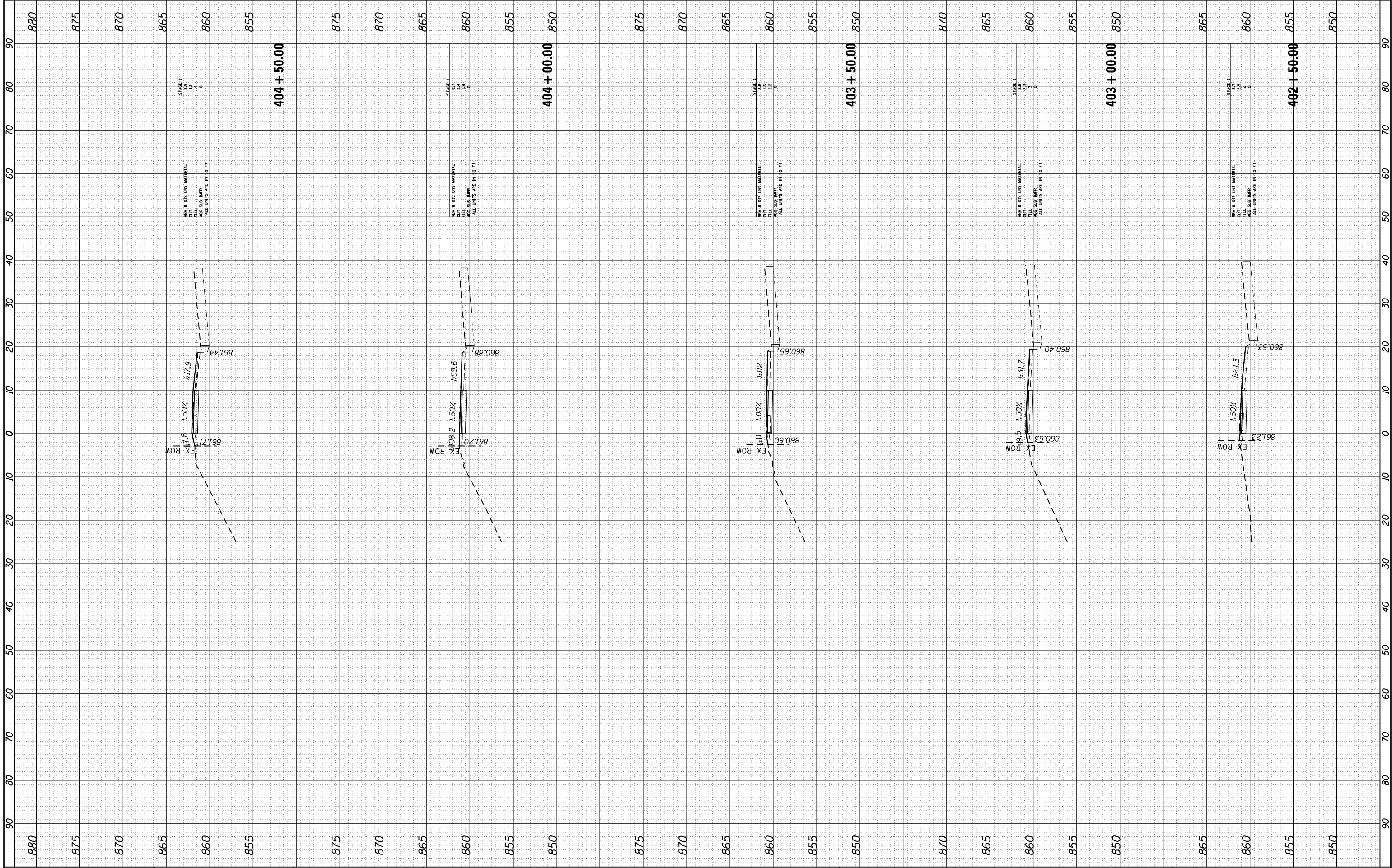


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PLOT DRIVER: hrcdf.plt
PEN TABLE: plot.tbl



 HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = jstrzal	DESIGNED - JJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS THREE OAKS ROAD SIDEPATH			F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 1"=10'	CHECKED - AC	REVISED -		CONTRACT NO. 61F42							
	PLOT DATE = 11/12/2018	DATE - 08/10/18	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
					SCALE: 1"=10'	SHEET NO. 8 OF 8 SHEETS	STA. 327+50.00 TO STA. 328+00.00					

HRG PROJECT NO.: 8650257
FILE NAME: 257-sht-xs-prb2.dgn
PLOT DRIVER: lwpd, lwplotcf
PEN TABLE: plottbl.tbl



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Illinois Professional Design Firm

184-001322

USER NAME = jstrzel

DESIGNED - JJS

REVISED -

FILE NAME = 257-sht-xs-prbike2.dgn

DRAWN - DMS

REVISED -

PLOT SCALE = 1"=10'

CHECKED - AC

REVISED -

PLOT DATE = 11/12/2018

DATE - 08/10/18

REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

THREE OAKS ROAD BIKE PATH

SCALE: 1"=10'

SHEET NO. 1 OF 6 SHEETS

STA. 402+50.00 TO STA. 404+50.00

F.A.U. RTE.

SECTION NO.

COUNTY

TOTAL SHEETS

SHEET NO.

4051

15-00065-00-RS

MCHENRY

72

67

CONTRACT NO. 61F42

FED. ROAD DIST. NO.

ILLINOIS FED. AID PROJECT



REVISED	-
REVISED	-
REVISED	-
REVISED	-

CROSS SECTIONS

OAKS ROAD BIKE PATH

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	68
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISED	-
REVISED	-
REVISED	-
REVISED	-

CROSS SECTIONS

THREE OAKS ROAD BIKE PATH

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
4051	15-00065-00-RS	MCHENRY	72	69
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



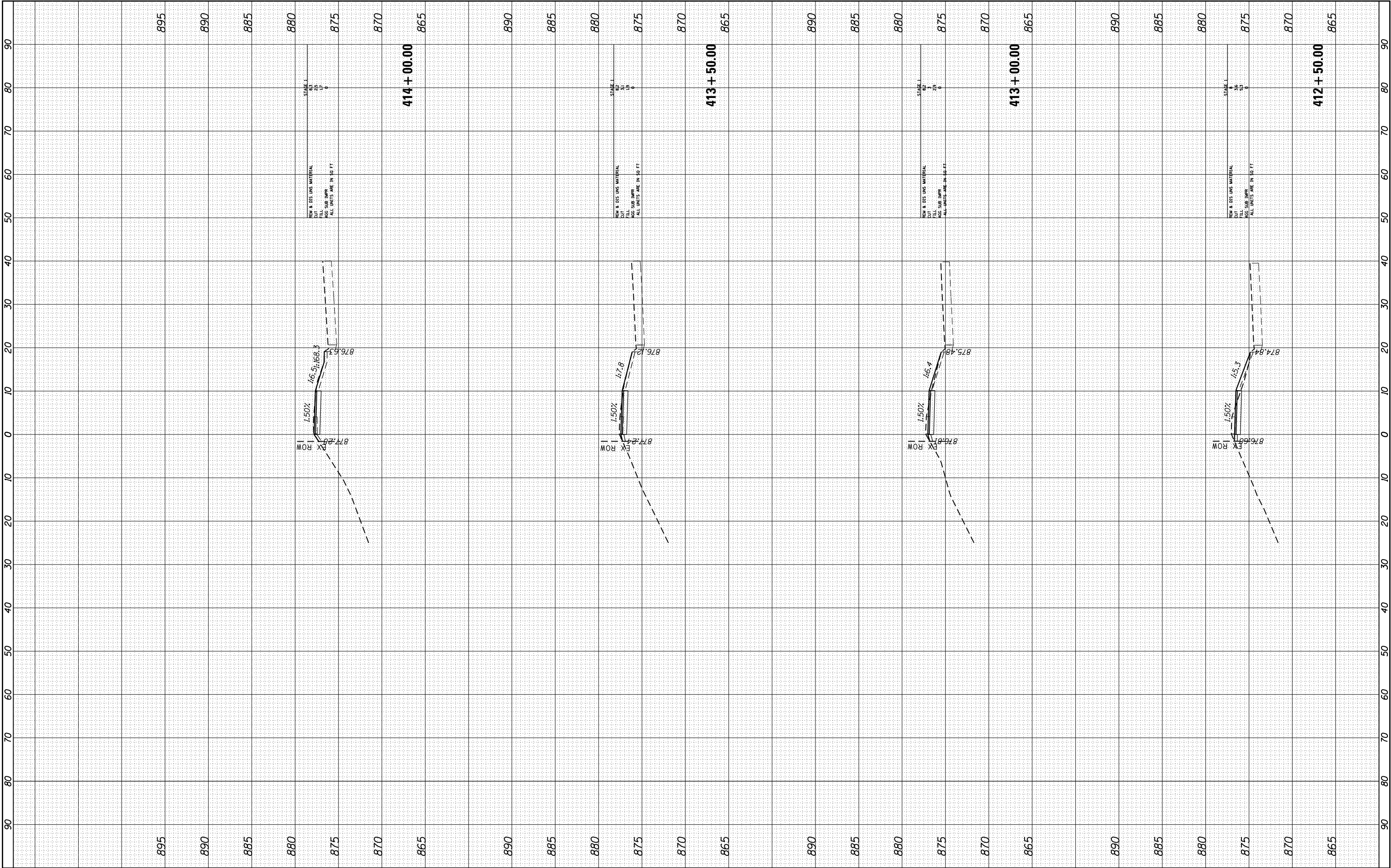
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CROSS SECTIONS

OAKS ROAD BIKE PATH

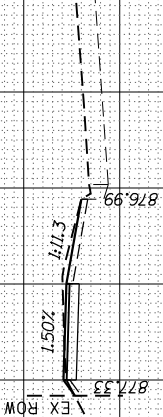
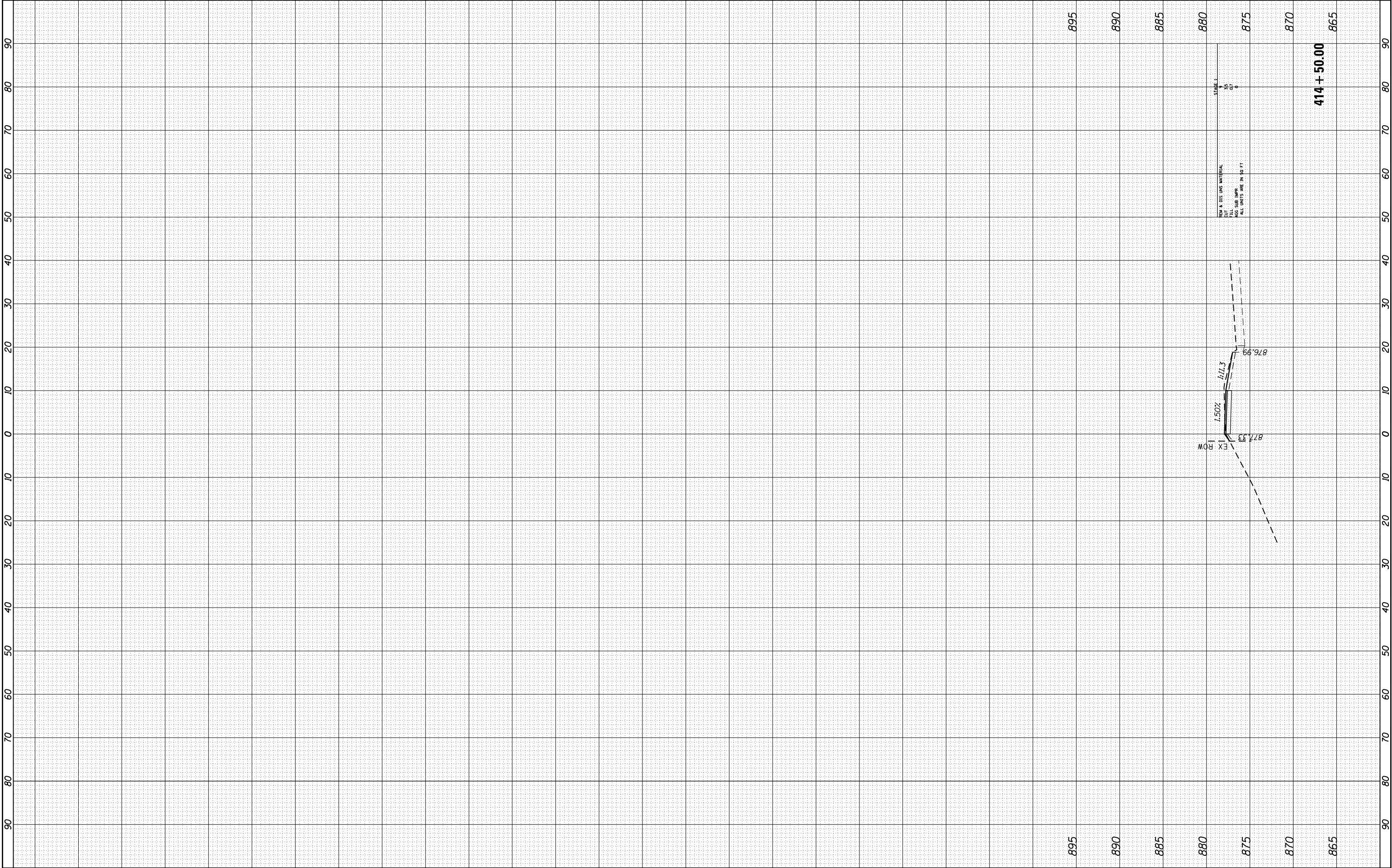
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4051	15-00065-00-RS	MCHENRY	72	70
		CONTRACT NO. 61F42		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HRG PROJECT NO.: 8650257
HRG FILE CONTACT: 257-sht-xs-prbik2.dgn
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PLOT DRIVER: plot.tbl
PEN TABLE: plot.tbl



HRGreen.com Illinois Professional Design Firm #184-001322				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CROSS SECTIONS THREE OAKS ROAD BIKE PATH				F.A.U. RTE. 4051 SECTION NO. 15-00065-00-RS COUNTY MCHENRY TOTAL SHEETS 72 SHEET NO. 71			
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PLOT SCALE = 1"=10'				CHECKED - AC				STA. 412+50.00 TO STA. 414+00.00							
PLOT DATE = 11/12/2018				DATE - 08/10/18											
				REVISED -											
				REVISED -											
				REVISED -											
				REVISED -											

HRG PROJECT NO.: 8650257
FILE NAME: 257-sht-xs-prbik2.dgn
PLOT DRIVER: hrcdf.plt
PEN TABLE: plottbl.tbl



414 + 50.00

	USER NAME = jstrzal		DESIGNED - JJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS THREE OAKS ROAD BIKE PATH			F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 257-sht-xs-prbik2.dgn		DRAWN - DMS	REVISED -					4051	15-00065-00-RS	MCHENRY	72	72
	PLOT SCALE = 1"=10'		CHECKED - AC	REVISED -		SCALE: 1"=10' SHEET NO. 6 OF 6 SHEETS STA. 414+50.00 TO STA. 414+50.00			CONTRACT NO. 61F42				
	PLOT DATE = 11/12/2018		DATE - 08/10/18	REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				