

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	1
FED. ROAD DIST. NO 1 ILLINOIS		CONTRACT NO. 61E17		

08-03-2018 LETTING ITEM 005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

**PLANS FOR PROPOSED
FEDERAL-AID HIGHWAY**
FAU 1238 (ILLINOIS ROUTE 176 - W. MAPLE AVENUE)
FROM MIDLOTHIAN ROAD TO US ROUTE 45 (LAKE STREET)
BICYCLE PATH /DRAINAGE /WATER MAIN
SECTION: 15-00101-00-BT
PROJECT: H5LE(048)
VILLAGE OF MUNDELEIN
LAKE COUNTY
JOB: C-91-183-16



ROADWAY CLASSIFICATION

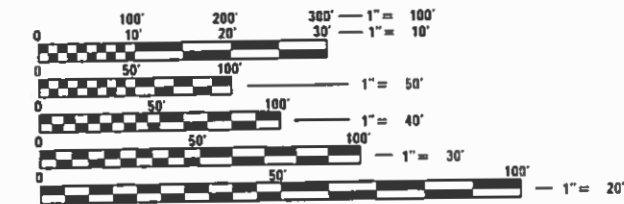
W. MAPLE AVENUE - MINOR ARTERIAL

TRAFFIC DATA

ADT 2016
W. MAPLE AVENUE - 15,800

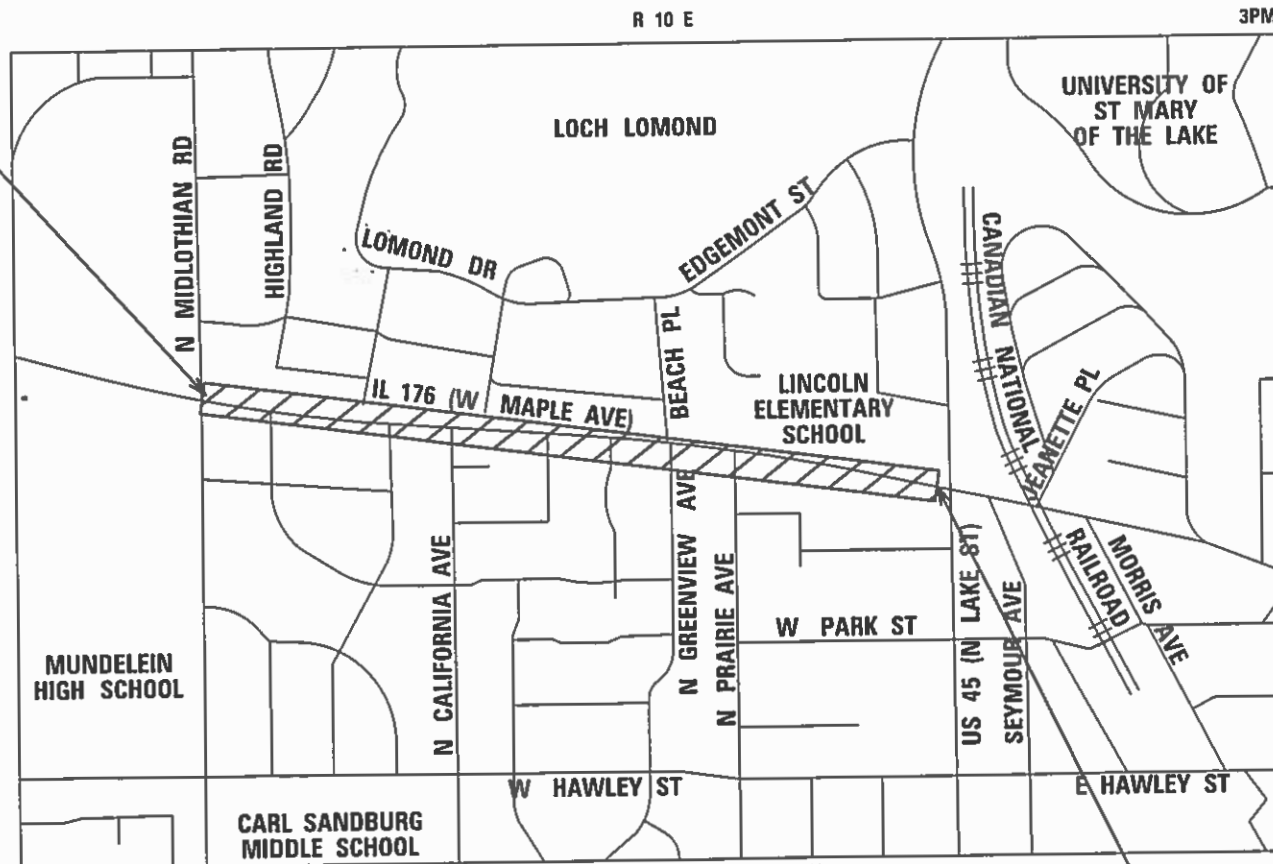
TRUCK VOLUME 2016
W. MAPLE AVENUE - 535

POSTED SPEED LIMIT
WEST OF CALIFORNIA AVENUE = 45 MPH
WEST OF PRAIRIE AVENUE = 35 MPH
WEST OF US ROUTE 45 = 30 MPH



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 LOCATION MAP
N.T.S.**



FREMONT TOWNSHIP
PROJECT LENGTH
NET AND GROSS LENGTH OF PROJECT = 3,939 FT. = 0.75 MILE

PROJECT ENDS
STA. 139 + 83.7



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

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

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

APPROVED January 11 20 18
[Signature]
VILLAGE OF MUNDELEIN

PASSED MAY 22 20 18
[Signature]
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW May 22 20 18
[Signature]
REGIONAL ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL
EXCLUDING SHEET(S):

[Signature]
JEFFREY J. STRZALKA, P.E.
EXPIRES: 11-30-19

CONTRACT NO. 61E17

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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DISTRICT ONE DETAILS

STANDARD NO.	LIST OF DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15'(4.5m)
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN

STATE STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-10	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602401-04	PRECAST MANHOLE TYPE A 4' DIAMETER
602402	PRECAST MANHOLE TYPE A 5' DIAMETER
602406-08	PRECAST MANHOLE TYPE A 6' DIAMETER
602506	PRECAST VALVE VAULT TYPE A 5' DIAMETER
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAMES AND LIDS TYPE 1
604051-04	FRAMES AND GRATES TYPE 11
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD 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
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT

GENERAL NOTES

- ALL REFERENCES TO bSTANDARD SPECIFICATIONSb IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTIONb ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL REFERENCES TO bENGINEER(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 bJULIEb (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.
- ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- DRIVEWAYS ARE TO BE CONSTRUCTED TO THE R.O.W. UNLESS OTHERWISE NOTED.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE OR STATE PROPERTY WITHOUT WRITTEN CONSENT FROM THE VILLAGE OF MUNDELEIN OR THE DEPARTMENT.
- CONSTRUCTION WORK MAY BE PERFORMED MONDAY THRU FRIDAY DURING THE HOURS OF 7:00 A.M. TO 9:00 P.M. AND ON WEEKENDS FROM 8:00 A.M. TO 6:00 P.M. NO WORK MAY BE PERFORMED PRIOR OR BEYOND THIS PERIOD WITHOUT PRIOR WRITTEN APPROVAL FROM THE VILLAGE. NO COMPENSATION WILL BE PAID FOR ANY INCONVENIENCE, DELAY, OR LOSS EXPERIENCE BY THE CONTRACTOR BECAUSE OF ADJUSTMENTS TO THEIR NORMAL SCHEDULE.

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 AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COOPERATE WITH THE VILLAGE OF MUNDELEIN IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE VILLAGE WITHIN THE DURATION OF THE CONTRACT.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE BIKE PATH BASE LINE.
- UNLESS OTHERWISE NOTED, OFFSETS FOR DRAINAGE STRUCTURES LOCATED IN CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT AND OFFSETS FOR DRAINAGE STRUCTURES NOT LOCATED IN THE CURB AND GUTTER ARE TO THE CENTER OF THE STRUCTURE.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE VILLAGE OF MUNDELEIN AND BE DELIVERED TO THE PUBLIC WORKS FACILITY AT 440 E. CRYSTAL STREET, AS APPLICABLE.
- 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.
- USE OF VILLAGE WATER WILL BE AVAILABLE AT THE PUBLIC WORKS FACILITY AT 440 E. CRYSTAL STREET TO USE WATER FOR DUST CONTROL, MIXING MORTAR, LANDSCAPE WATERING, CLEANING SEWERS, ETC. THE CONTRACTOR WILL PAY FOR THE QUANTITY OF WATER USED AT THE CURRENT RATE OF BILLING AND WILL NOT BE REIMBURSED FOR THE USE OF VILLAGE WATER. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO THE NEED OF WATER. THE VILLAGE OF MUNDELEIN WILL REQUIRE A CERTIFICATE OF INSURANCE TO USE THE WATER FILLING STATION AND THE CONTRACTOR WILL BE REQUIRED TO SETUP AN ACCOUNT.
- WATER STOP GASKETS SHALL BE PROVIDED AT ALL SANITARY SEWER MANHOLE/PIPE CONNECTIONS AS APPROVED BY THE ENGINEER.
- CONCRETE ADJUSTING RINGS WILL NOT BE PERMITTED. THE CONTRACTOR SHALL USE HDEP OR EPP IN ACCORDANCE WITH THE BDE SPECIAL PROVISION FOR ADJUSTING FRAMES AND GRATES.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS, AND DISTRICT ONE DETAILS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	2
CONTRACT NO.			61E17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

EARTHWORK

1. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSUITABLE MATERIAL.
2. 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.
3. 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.

SIGNING

1. SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
2. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH THEIR 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.

SEDIMENTATION AND EROSION CONTROL

1. 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.
2. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
3. 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 SEEDED SHALL BE DETERMINED BY THE ENGINEER.
4. 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.
5. EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING ANY STORM HAVING A RAINFALL EQUAL TO ONE-HALF INCH OR GREATER. ANY REQUIRED REPAIRS TO THE EROSION CONTROL SYSTEMS SHALL BE MADE IMMEDIATELY. ANY SILTATION OF CULVERTS, STRUCTURES, OR DITCHES SHALL BE CLEANED AND MAINTAINED BY THE CONTRACTOR UNTIL SEEDING HAS TAKEN HOLD. ALL WASHOUTS, GULLIES, ETC. WILL BE REGRADED AND RESEDED BY THE CONTRACTOR.
6. 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.
7. 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.
8. 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).
9. 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.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AIR AND HANDWORK WITH SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC. IF STREET SWEEPING IS NOT COMPLETED AS REQUESTED BY THE ENGINEER OR VILLAGE, LIQUIDATED DAMAGES IN THE AMOUNT OF \$500.00 PER DAY WILL BE ASSESSED.

LANDSCAPING

1. TREES TO BE PROTECTED DURING CONSTRUCTION WILL BE IDENTIFIED BY THE ENGINEER AND RECEIVE PROTECTION IN ACCORDANCE WITH THE DETAILS PROVIDED IN THE PLANS.
2. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND UTILITIES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL STAKE ALL TREE AND SHRUB LOCATIONS AND THE PERIMETER OF LANDSCAPING BEDS PRIOR TO INSTALLATION AND CONTACT THE RESIDENT ENGINEER FOR APPROVAL. FINAL LOCATION AND STAKING OF ALL PLANT MATERIALS SHALL BE APPROVED BY THE RESIDENT ENGINEER IN ADVANCE OF PLANTING. IF CONFLICTS ARISE BETWEEN THE SIZE OF AREAS AND PLANS, THE CONTRACTOR IS REQUIRED TO CONTACT THE RESIDENT ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.

GENERAL NOTES

4. ALL PLANTS SHALL BE NURSERY GROWN PLANTS MEETING AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) STANDARDS SET FORTH IN THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004). PLANTS ARE TO BE TYPICAL IN SHAPE AND SIZE FOR SPECIES. PLANTS PLANTED IN ROWS OR GROUPS SHALL BE MATCHED IN FORM. PLANTS SHALL NOT BE ROOT-BOUND OR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE.

SEQUENCE OF CONSTRUCTION

1. THE CONTRACTOR SHALL PERFORM HIS WORK IN A MANNER CAUSING MINIMAL INCONVENIENCE TO THE RESIDENTS AND MOTORING PUBLIC.
2. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO BIKE PATH CONSTRUCTION, PIPE CULVERT INSTALLATION OR STORM SEWER IS TO BE INSTALLED ACROSS A DRIVEWAY. THE CONTRACTOR SHALL CONTACT THE HOMEOWNER 48 HOURS PRIOR TO REMOVING THE PAVEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES (KNOCK ON DOORS WHEN A DRIVEWAY IS ABOUT TO BE CLOSED).
3. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE A DRIVEWAY FOR MORE THAN 48 HOURS UNDER ANY CIRCUMSTANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BARRICADES TO PREVENT TRAFFIC FROM USING DRIVEWAYS DURING THIS PERIOD. STREET PARKING WILL BE RESTRICTED TO THE ADJACENT SIDE STREETS DURING CONSTRUCTION OPERATIONS.
4. THE CONTRACTOR SHALL FILL HOLES CREATED BY THE REMOVAL OF DRIVEWAY PAVEMENT WHERE NEW GUTTER OR UTILITY HAS BEEN CONSTRUCTED WITH AGGREGATE BASE COURSE (CA-6 CRUSHED), IN ACCORDANCE WITH THE SPECIFICATION FOR TEMPORARY ACCESS, SO THAT RESIDENTS CAN USE THEIR DRIVEWAYS UNTIL THE START OF INSTALLATION OF THE CONCRETE GUTTER AND/OR DRIVEWAY PAVEMENT.
5. THE CONTRACTOR'S SUPERINTENDENT AND THE RESIDENT ENGINEER WILL BE REQUIRED TO WORK TOGETHER WITH THE AFFECTED RESIDENTS IN PLANNING THEIR CONSTRUCTION SCHEDULE SO AS TO MINIMIZE THE INCONVENIENCE AND MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES	
IL 176 (W MAPLE AVE) BICYCLE PATH	
SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	3
CONTRACT NO.			61E17	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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HRGreen.com
 Illinois Professional Design Firm
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
IL 176 (W MAPLE AVE) BICYCLE PATH			
SCALE:	SHEET NO.	STA.	TO STA.
N.T.S.	1 OF 6 SHEETS		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	4
CONTRACT NO.				61E17
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BIKE PATH CMAO 80% FEDERAL 0028	WATER MAIN VILLAGE 100% LOCAL
+ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1, 277	1, 277	
+ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	266	266	
+ 20101100	TREE TRUNK PROTECTION	EACH	3	3	
* + 20101200	TREE ROOT PRUNING	EACH	2	2	
+ 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	6	6	
+ 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	9	9	
20200100	EARTH EXCAVATION	CU YD	1, 115	1, 115	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1, 230	1, 230	
20400800	FURNISHED EXCAVATION	CU YD	1, 244	1, 244	
20800150	TRENCH BACKFILL	CU YD	2, 345	255	2, 090
20900110	POROUS GRANULAR BACKFILL	CU YD	447	447	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	9, 690	9, 690	
+ 25000110	SEEDING, CLASS 1A	ACRE	2. 00	2. 00	
+ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180	180	
+ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180	180	
+ 25100630	EROSION CONTROL BLANKET	SO YD	9, 690	9, 690	
25200200	SUPPLEMENTAL WATERING	UNIT	25	25	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	200	
28000305	TEMPORARY DITCH CHECKS	FOOT	60. 0	60. 0	
28000400	PERIMETER EROSION BARRIER	FOOT	2, 615. 0	2, 615. 0	
28000500	INLET AND PIPE PROTECTION	EACH	9	9	
28000510	INLET FILTERS	EACH	40	40	
28100207	STONE RIPRAP, CLASS A4	TON	142	142	
28200200	FILTER FABRIC	SO YD	66	66	
31101180	SUBBASE GRANULAR MATERIAL, TYPE B 2"	SO YD	1, 145	1, 145	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SO YD	1, 620	1, 620	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	4, 250	4, 250	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	1, 475	1, 475	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9, 272	9, 272	

* SPECIAL PROVISION
 + SPECIALTY ITEM

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BIKE PATH CMAO 80% FEDERAL 0028	WATER MAIN VILLAGE 100% LOCAL
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	330	330	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	705	705	
* 42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	407	407	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SO FT	10,070	2,000	8,070.0
* 42400800	DETECTABLE WARNINGS	SO FT	220	220	
44000100	PAVEMENT REMOVAL	SO YD	1,020	330	690
* 44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	1,755	1,755	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,066.0	1,066.0	
44000600	SIDEWALK REMOVAL	SO FT	14,950	6,800	8,150
48101200	AGGREGATE SHOULDERS, TYPE B	TON	210	210	
* 50105220	PIPE CULVERT REMOVAL	FOOT	118.0	118.0	
50200100	STRUCTURE EXCAVATION	CU YD	1,844	1,844	
50300225	CONCRETE STRUCTURES	CU YD	316	316	
* 50300285	FORM LINER TEXTURED SURFACE	SO FT	2,785	2,785	
50800105	REINFORCEMENT BARS	POUND	26,900	26,900	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,831	5,831	
+ 50901720	BICYCLE RAILING	FOOT	444.0	444.0	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	2,340	2,340	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	14.0	14.0	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	478.5	478.5	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	480.5	480.5	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	452.0	452.0	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	7	7	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	
54248510	CONCRETE COLLAR	CU YD	6	6	
* 55100200	STORM SEWER REMOVAL 6"	FOOT	16.0	16.0	
* 55100500	STORM SEWER REMOVAL 12"	FOOT	8.0	8.0	
* 55101200	STORM SEWER REMOVAL 24"	FOOT	176.0	176.0	
* + 56100045	DUCTILE IRON WATER MAIN TEE, 12" X 4"	EACH	2		2

* SPECIAL PROVISION
+ SPECIALTY ITEM

COMPANY NAME: HRGreen.com
PROJECT CONTACT: jst@hrgreen.com
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
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PLOT DATE = 6/13/2018

DESIGNED - JCH
DRAWN - DMS
CHECKED - JJS
DATE - 6/13/18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 176 (W MAPLE AVE) BICYCLE PATH
SCALE: N.T.S. SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. 1238	SECTION 15-00101-00-BT	COUNTY LAKE	TOTAL SHEETS 87	SHEET NO. 5
CONTRACT NO. 61E17			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BIKE PATH CMAO 80% FEDERAL 0028	WATER MAIN VILLAGE 100% LOCAL
* + 56100050	DUCTILE IRON WATER MAIN TEE, 12" X 6"	EACH	3		3
* + 56100055	DUCTILE IRON WATER MAIN TEE, 12" X 8"	EACH	4		4
* + 56100065	DUCTILE IRON WATER MAIN TEE, 12" X 12"	EACH	3		3
* + 56100600	WATER MAIN 6"	FOOT	8.0		8.0
* + 56100700	WATER MAIN 8"	FOOT	70.0		70.0
* + 56100900	WATER MAIN 12"	FOOT	2,778.0		2,778.0
* + 56101160	DUCTILE IRON WATER MAIN REDUCER, 12" X 8"	EACH	3		3
* + 56104800	WATER VALVES 4"	EACH	1		1
* + 56105000	WATER VALVES 8"	EACH	4		4
* + 56105200	WATER VALVES 12"	EACH	8		8
* + 56109400	DUCTILE IRON WATER MAIN FITTINGS 8" 11.25 DEGREE BEND	EACH	4		4
* + 56109404	DUCTILE IRON WATER MAIN FITTINGS 12" 11.25 DEGREE BEND	EACH	7		7
* + 56109420	DUCTILE IRON WATER MAIN FITTINGS 8" 45.00 DEGREE BEND	EACH	3		3
* + 56109424	DUCTILE IRON WATER MAIN FITTINGS 12" 45.00 DEGREE BEND	EACH	17		17
* + 56109438	DUCTILE IRON WATER MAIN FITTINGS 12" 90.00 DEGREE BEND	EACH	4		4
* + 56201120	WATER SERVICE LINE 4"	FOOT	21.0		21.0
* + 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2		2
* + 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	3		3
* + 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	1		1
59100100	GEOCOMPOSITE WALL DRAIN	50 YD	260	260	
* 60200805	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 8 GRATE	EACH	11	11	
* 60201105	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1	
* 60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1	
* 60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	1	1	
* 60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
* 60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
* 60223800	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
* + 60248900	VALVE VAULTS, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	13		13
60250200	CATCH BASINS TO BE ADJUSTED	EACH	5	5	

* SPECIAL PROVISION
+ SPECIALTY ITEM

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
CLIENT: HRGreen
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PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 176 (W MAPLE AVE) BICYCLE PATH		1238	15-00101-00-BT	LAKE	87	6
SCALE: N.T.S.	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.	CONTRACT NO. 61E17		

F.A.U. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238		15-00101-00-BT	LAKE	87	6
CONTRACT NO. 61E17					

FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BIKE PATH CMAO 80% FEDERAL 0028	WATER MAIN VILLAGE 100% LOCAL
60253100	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60254100	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	4	4	
60260100	INLETS TO BE ADJUSTED	EACH	3	3	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2		2
60404800	FRAMES AND GRATES, TYPE 11	EACH	2	2	
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2	2	
60500040	REMOVING MANHOLES	EACH	2	2	
60500050	REMOVING CATCH BASINS	EACH	1	1	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	1	1	
60600605	CONCRETE CURB, TYPE B	FOOT	181.0	181.0	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,580.0	1,580.0	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	64.0	64.0	
63200310	GUARDRAIL REMOVAL	FOOT	378.0	378.0	
* + 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	480	480	
* + 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	
* + 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6	
67100100	MOBILIZATION	L SUM	1	1	
* 70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1	
* 70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1	
* 70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	214	214	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5	
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	
+ 72000100	SIGN PANEL - TYPE 1	SO FT	10	10	
+ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	30.0	30.0	
+ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	79.0	79.0	
+ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	130.0	130.0	
+ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	17.0	17.0	

* SPECIAL PROVISION
+ SPECIALTY ITEM

COMPANY NAME: HRGreen.com
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DRAWN - DMS
CHECKED - JJS
DATE - 6/13/18

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 176 (W MAPLE AVE) BICYCLE PATH
SCALE: N.T.S. SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	7
CONTRACT NO.			61E17	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BIKE PATH CMAO 80% FEDERAL 0028	WATER MAIN VILLAGE 100% LOCAL
* + 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		
* + 89502376	REBUILD EXISTING HANDHOLE	EACH	1	1	
* + A2000192	TREE, ACER X FREEMANII AUTUMN FANTASY (AUTUMN FANTASY FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11	
* + A2004820	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11	
* + A2005960	TREE, PLATANUS X ACERIFOLIA MORTON CIRCLE (EXCLAMATIONΔ LONDON PLANETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12	
* + A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11	
* + A2008470	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11	
* + D2003848	EVERGREEN, THUJA OCCIDENTALIS TECHNY (TECHNY ARBORVITAE), 4' HEIGHT, BALLED AND BURLAPPED	EACH	7	7	
* + K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	12	12	
* X0322463	CONNECTION TO EXISTING SEWER	EACH	11	11	
* + X0323449	REMOVE EXISTING WATER VALVE	EACH	14		14
* X0326806	WASHOUT BASIN	L SUM	1	1	
* + X0327367	STEEL CASING PIPE, BORED AND JACKED, 24"	FOOT	179.0		179.0
* + X0327747	WATER MAIN ENCASEMENT	FOOT	74.0		74.0
* + X0327808	PLANTING SOIL MIX FURNISH AND PLACE, 18"	SO YD	390	390	
* X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100.0		100.0
* X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	29	15	14
* X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	4	4	
* + X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	2,499.0		2,499.0
* + X5610704	WATER MAIN REMOVAL, 4"	FOOT	33.0		33.0
* + X5610706	WATER MAIN REMOVAL, 6"	FOOT	7.5		7.5
* + X5610708	WATER MAIN REMOVAL, 8"	FOOT	234.0		234.0
* + X5610712	WATER MAIN REMOVAL, 12"	FOOT	130.0		130.0
* + X5620116	WATER SERVICE CONNECTION (SHORT)	EACH	15		15
* + X5620118	WATER SERVICE CONNECTION (LONG)	EACH	5		5
* + X5630004	CUT AND CAP EXISTING 4" WATER MAIN	EACH	2		2
* + X5630008	CUT AND CAP EXISTING 8" WATER MAIN	EACH	8		8
* + X5630012	CUT AND CAP EXISTING 12" WATER MAIN	EACH	2		2
* + X5630704	CONNECTION TO EXISTING WATER MAIN 4"	EACH	2		2

* SPECIAL PROVISION
+ SPECIALTY ITEM

COMPANY NAME: HRGreen
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CLIENT: #CLIENT#
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PLOT DATE = 6/13/2018

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DRAWN - DMS
CHECKED - JJS
DATE - 6/13/18

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 176 (W MAPLE AVE) BICYCLE PATH
SCALE: N.T.S. SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	8
CONTRACT NO. 61E17				

FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	BIKE PATH CMAO 80% FEDERAL 0028	WATER MAIN VILLAGE 100% LOCAL
* + X5630708	CONNECTION TO EXISTING WATER MAIN 8"	EACH	7		7
* + X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	2		2
* X7240505	RELOCATE SIGN PANEL AND POST	EACH	18	18	
* + XX004360	SANITARY SEWER BYPASS PUMPING	L SUM	1	1	
* + XX007248	WATER CONNECTION SPECIAL	EACH	1		1
* + Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* + Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	52	52	
* Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	304.0		304.0
* Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	118.0		118.0
* Z0062456	TEMPORARY PAVEMENT	SO YD	185	185	
Δ * Z0076600	TRAINEES	HOUR	500	500	
Δ * Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
* + Z0077700	WOOD FENCE TO BE REMOVED AND RE-ERECTED	FOOT	75.0	75.0	
* + XX009239	ADJUSTING SANITARY FORCE MAIN, 10"	FOOT	340.0	340.0	
* + D2000288	EVERGREEN, JUNIPER CHINENSIS (GOLD LACE), 2' WIDTH, BALLED AND BURLAPPED	EACH	41	41	

Δ 0042

- * SPECIAL PROVISION
- + SPECIALTY ITEM

COMPANY NAME: HRGreen
 PROJECT CONTACT: #PROJECT CONTACT#
 CLIENT: 5/25/2018 12:52:17 PM
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 HRGreen.com
 Illinois Professional Design Firm
 # 164-001322

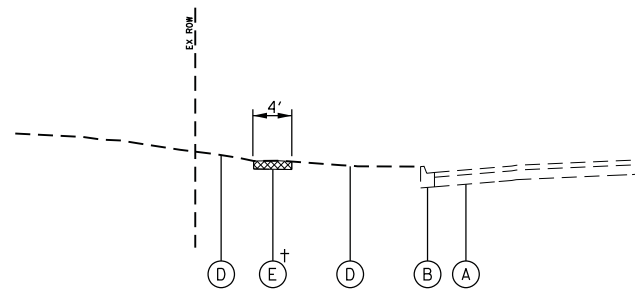
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

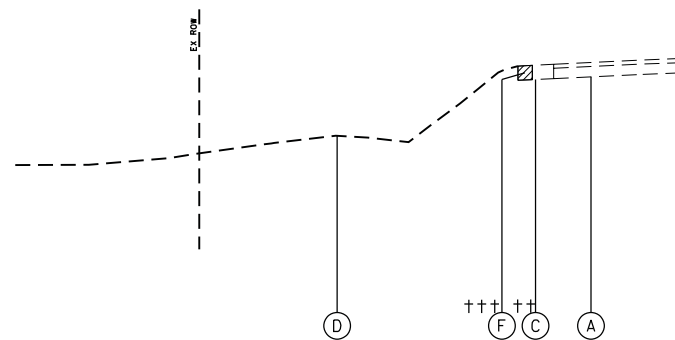
SUMMARY OF QUANTITIES	
IL 176 (W MAPLE AVE) BICYCLE PATH	
SCALE: N.T.S.	SHEET NO. 6 OF 6 SHEETS
STA. _____	TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	9
CONTRACT NO. 61E17				

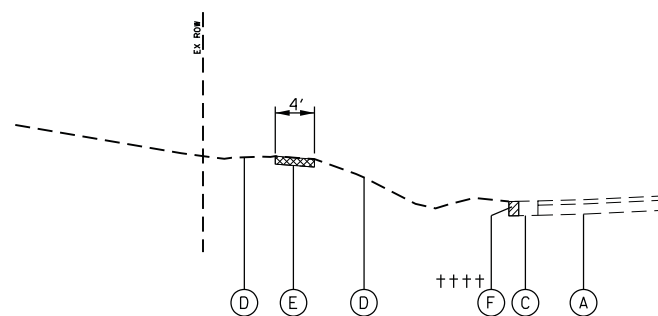
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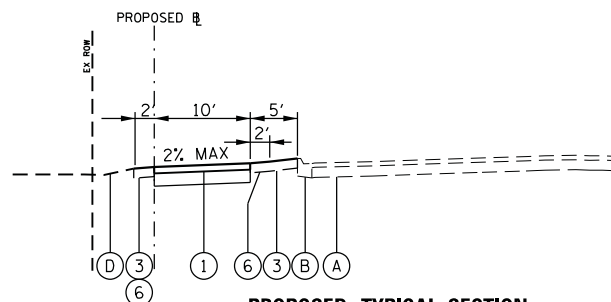
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MAPLE AVENUE MULTI USE PATH**
STA. 100+44.8 TO STA. 105+21
STA. 125+00 TO STA. 129+64.1
STA. 138+71 TO STA. 139+83.7
† STA. 100+44.8 TO STA. 102+47.7



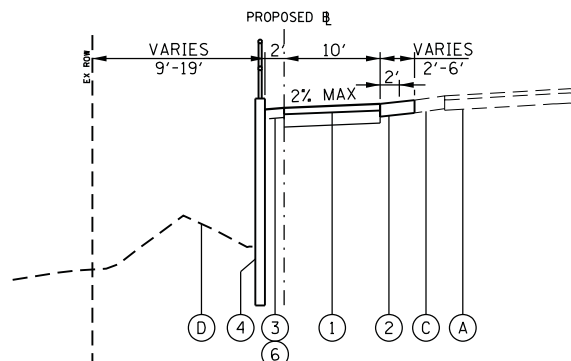
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MAPLE AVENUE MULTI USE PATH**
STA. 105+21 TO STA. 125+00
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†† STA. 114+25.3 TO STA. 125+00
††† STA. 116+50.2 TO STA. 122+00



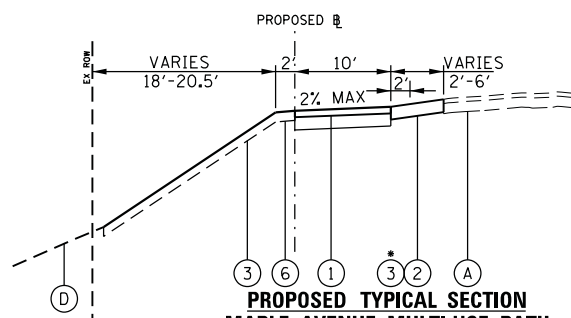
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MAPLE AVENUE MULTI USE PATH**
STA. 129+64.1 TO STA. 138+71
†††† STA. 133+23.4 TO STA. 138+71



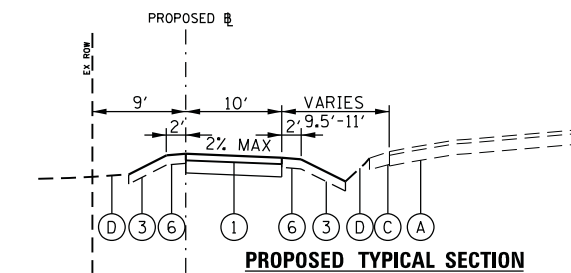
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MAPLE AVENUE MULTI USE PATH**
STA. 100+44.8 TO STA. 104+00



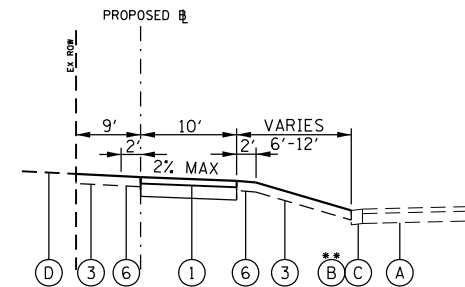
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MAPLE AVENUE MULTI USE PATH**
STA. 104+00 TO STA. 108+00



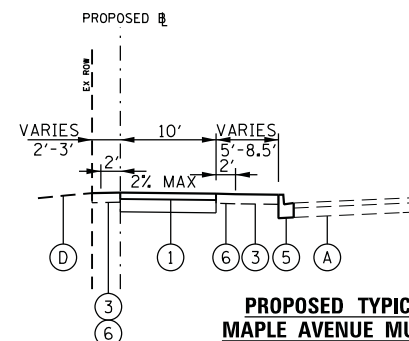
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MAPLE AVENUE MULTI USE PATH**
STA. 108+00 TO STA. 109+00
STA. 115+00 TO STA. 125+00
* STA. 115+00 TO STA. 117+00



**PROPOSED TYPICAL SECTION
MAPLE AVENUE MULTI USE PATH**
STA. 109+00 TO STA. 115+00



**PROPOSED TYPICAL SECTION
MAPLE AVENUE MULTI USE PATH**
STA. 125+00 TO STA. 135+00
** STA. 125+00 TO STA. 130+00



**PROPOSED TYPICAL SECTION
MAPLE AVENUE MULTI USE PATH**
STA. 135+00 TO STA. 139+83.7

EXISTING LEGEND

- (A) EXISTING PAVEMENT TO REMAIN
- (B) EXISTING CONCRETE CURB AND GUTTER; TYPE B6.12
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING GROUND
- (E) SIDEWALK REMOVAL
- (F) AGGREGATE SHOULDER REMOVAL (INCLUDED IN THE COST OF EARTH EXCAVATION)

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50; 2" AGGREGATE BASE COURSE, TYPE B; 6"
- (2) AGGREGATE SHOULDERS, TYPE B
- (3) SEEDING, CLASS 1A, EROSION CONTROL BLANKET, AND TOPSOIL FURNISH AND PLACE, 4"
- (4) RETAINING WALL AND BICYCLE RAILING (SEE STRUCTURAL PLANS)
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) TURF GRADED SHOULDERS (PAID FOR AS SEEDING CLASS 1A, EROSION CONTROL BLANKET AND TOPSOIL FURNISH AND PLACE, 4")

NOTE:

AGGREGATE BASE COURSE, TYPE B WILL BE CA-6 CRUSHED GRAVEL OR STONE.

EARTHWORK SUMMARY

ITEM NO.	CODE	DESCRIPTION	CROSS SECTION BASED	STRUCTURE QUAN OVERLAP	ADJUSTED
			MAPLE AVENUE PATH (CUYD)	MAPLE AVENUE PATH (CUYD)	MAPLE AVENUE PATH (CUYD)
1	20200100	EARTH EXCAVATION	1,294.5	180.0	1,115.0
2	20400800	FURNISHED EXCAVATION	1,580.3	337.0	1,244.0
3	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (TOTAL)	1,229.0		
		CROSS SECTION BASED	1,128.6		
		STRUCTURAL QUANTITY	100.0		

NOTE: CROSS SECTION BASED EARTHWORK QUANTITIES INCLUDE SOME OVERLAP WITH THE STRUCTURE EARTHWORK QUANTITIES. 180 CU YD OF EARTH EXCAVATION IS ALREADY INCLUDED IN STRUCTURE EXCAVATION. THE EARTH EXCAVATION QUANTITY HAS BEEN REDUCED ACCORDINGLY IN THE ADJUSTED COLUMN. 337 CU YD OF FURNISHED EXCAVATION IS ALREADY INCLUDED IN THE QUANTITY FOR POROUS GRANULAR BACKFILL. THE FURNISHED EXCAVATION QUANTITY HAS BEEN REDUCED ACCORDINGLY IN THE ADJUSTED COLUMN.

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.
HMA BASE COURSE (HMA BINDER IL-19mm); 6"	4% @ 50 GYR.
TEMPORARY PAVEMENT	
HMA SURFACE COURSE, MIX "D", N70; (IL-9.5mm); 2"	4% @ 70 GYR.
HMA BINDER COURSE, N70 (IL-19.0mm); 8"	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.

IF THE CONTRACTOR CHOOSES TO USE CONCRETE FOR TEMPORARY PAVEMENT, THE THICKNESS OF PCC SHALL BE EIGHT INCHES (8").

PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ARTICLE 1020 OF THE STANDARD SPECIFICATIONS.

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 6/11/2018 12:48:47 PM
FILE NAME: 033-sht-tyr.dgn
PLOT DRIVER: ILpdf.plt
PEN TABLE: plot.tbl



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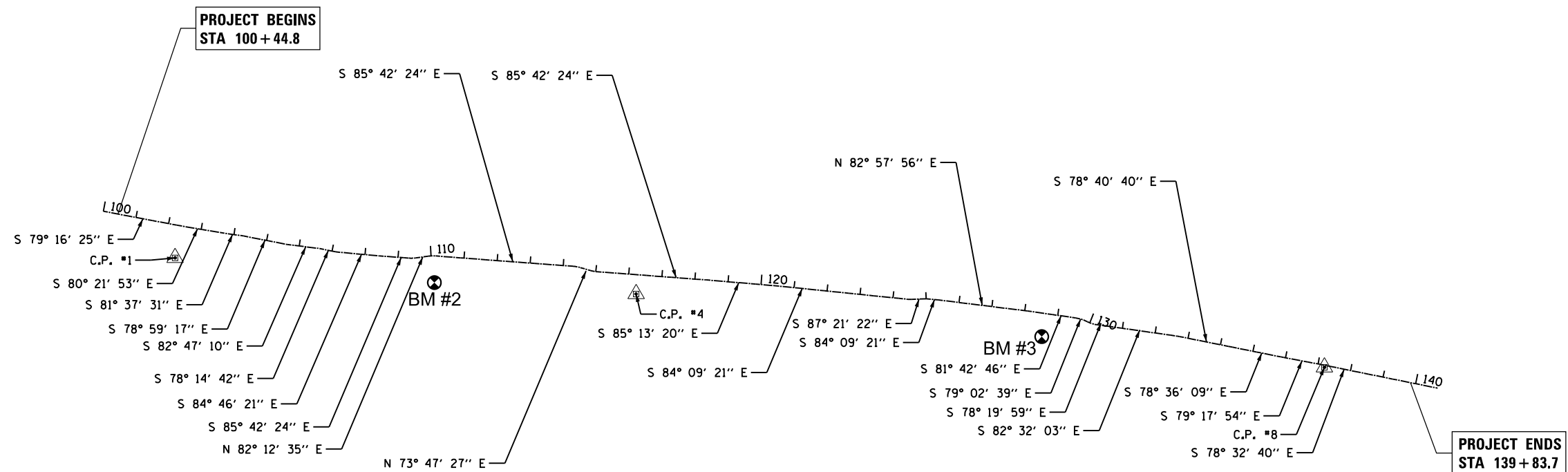
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 176 (W MAPLE AVE) BICYCLE PATH
SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	10
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



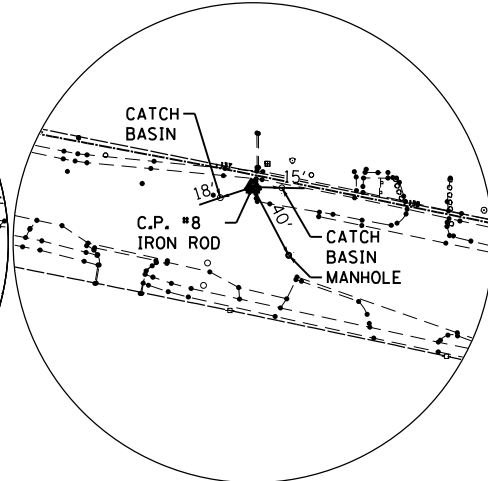
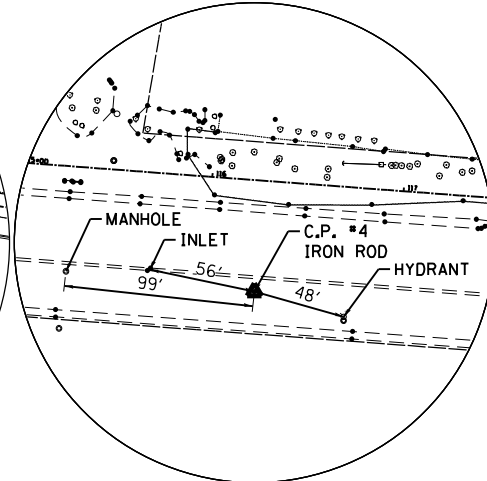
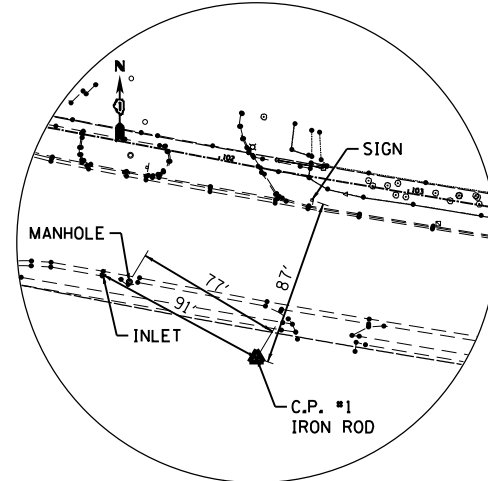
⊗ BM #1



CONTROL POINT #1
N: 2042946.17
E: 1069569.96

CONTROL POINT #4
N: 2042837.28
E: 1070960.07

CONTROL POINT #8
N: 2042615.99
E: 1073035.87



BENCHMARKS

BM1: SOURCE BENCHMARK - NGS MONUMENT KNOWN AS MUND 1 WHICH IS AT 1000 MIDLOTHIAN ROAD (MUNDELEIN FIRE STATION NO. 1) AND IS LOCATED IN GRASSY AREA EAST OF THE THREE FLAG POLES ON EAST SIDE OF BUILDING. ELEVATION: 786.286 (NAVD 88).

BM2: ARROW BOLT ON HYDRANT LOCATED AT THE SOUTHWEST CORNER OF ROUTE 176 AND RIDGEMOOR AVENUE. ELEVATION: 765.817 (NAVD 88).

BM3: ARROW BOLT ON HYDRANT LOCATED AT THE SOUTHWEST CORNER OF ROUTE 176 AND PRAIRIE AVENUE. ELEVATION: 760.45 (NAVD 88).

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/25/2018 12:02:07 PM
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PLOT DRIVER: IL.pdf.plt
PEN TABLE: plotlabel.tbl



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PLOT SCALE = N.T.S.
PLOT DATE = 5/25/2018

DESIGNED - JCH
DRAWN - DMS
CHECKED - JJS
DATE - 5/25/18

REVISED -
REVISED -
REVISED -
REVISED -

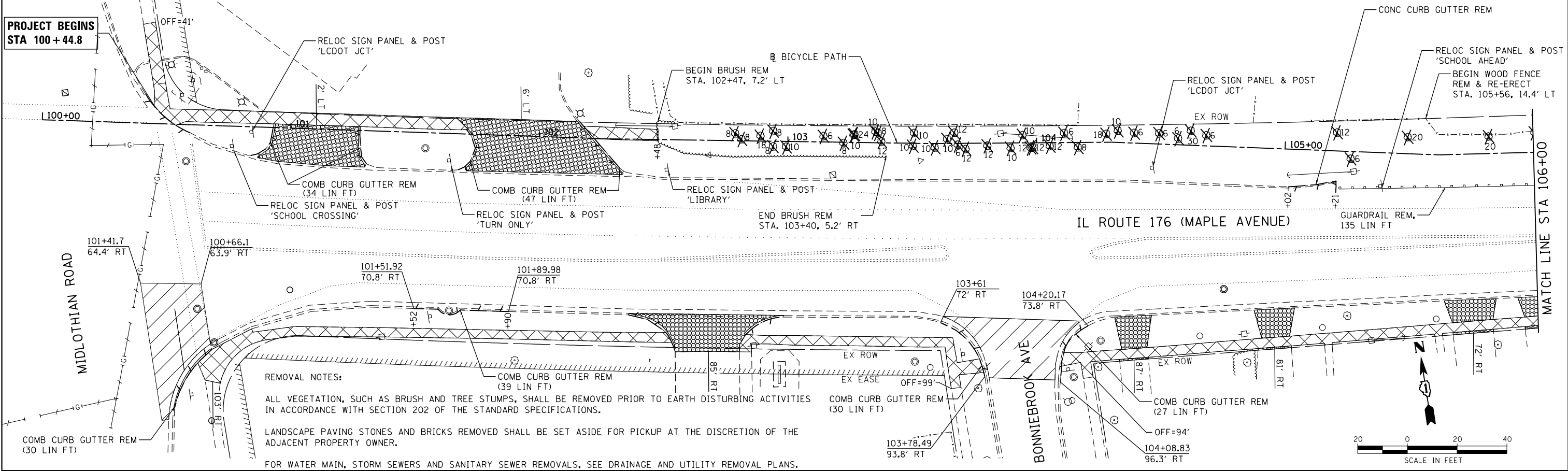
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
IL 176 (W MAPLE AVE) BICYCLE PATH

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

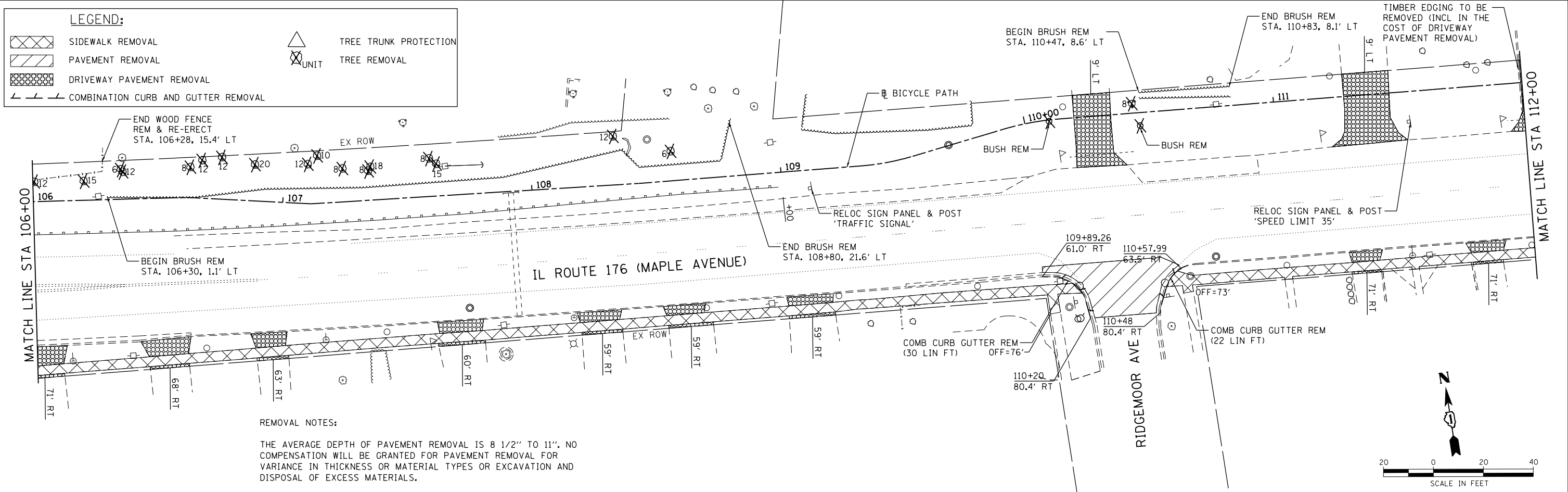
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	11
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**PROJECT BEGINS
STA 100+44.8**



LEGEND:

- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE TRUNK PROTECTION
- TREE REMOVAL



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
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 PLOT DRIVER: IL.pdf.plt
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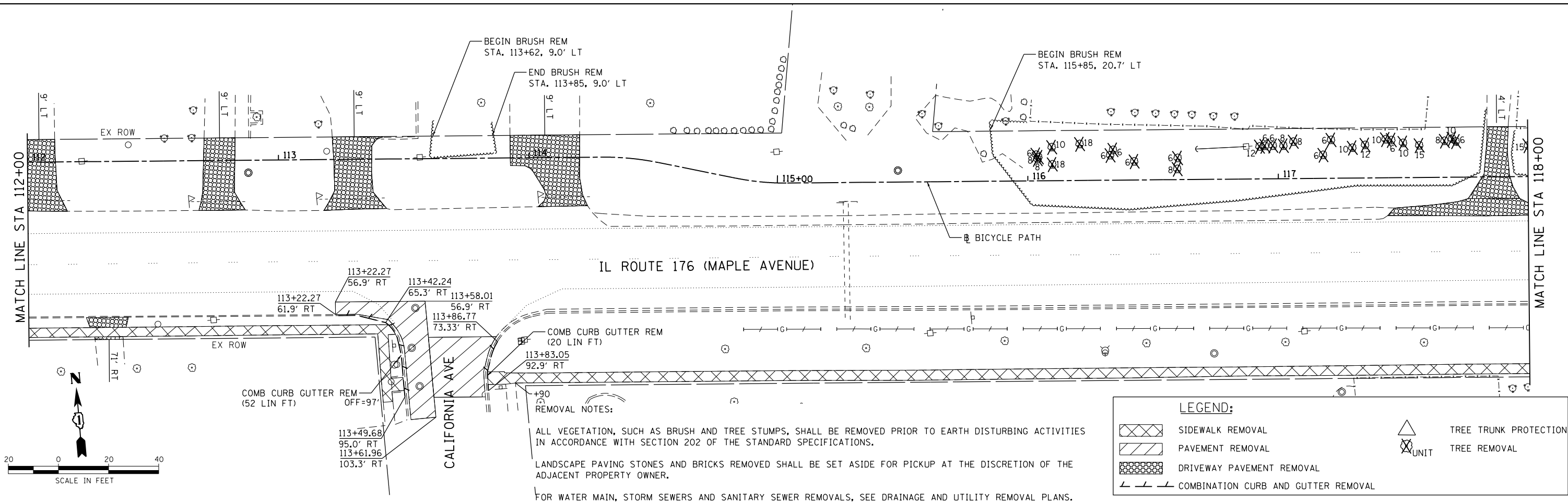


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PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

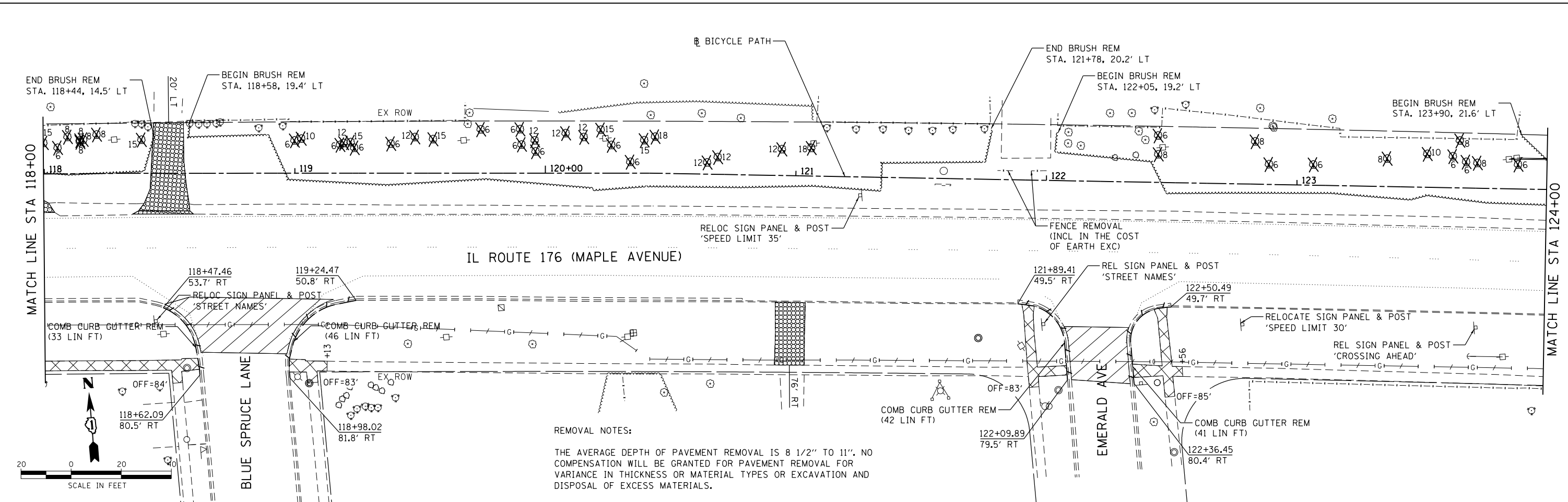
**REMOVAL PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH**
 SCALE: 1"=20' SHEET NO. 1 OF 4 SHEETS STA. 100+44.80 TO STA. 112+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	12
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND:

- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE TRUNK PROTECTION
- TREE REMOVAL



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT#
 DATE PLOTTED: 5/25/2018 12:02:20 PM
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 PLOT DRIVER: IL.pdf, bw, a1, r, f, q
 PEN TABLE: plot.tbl

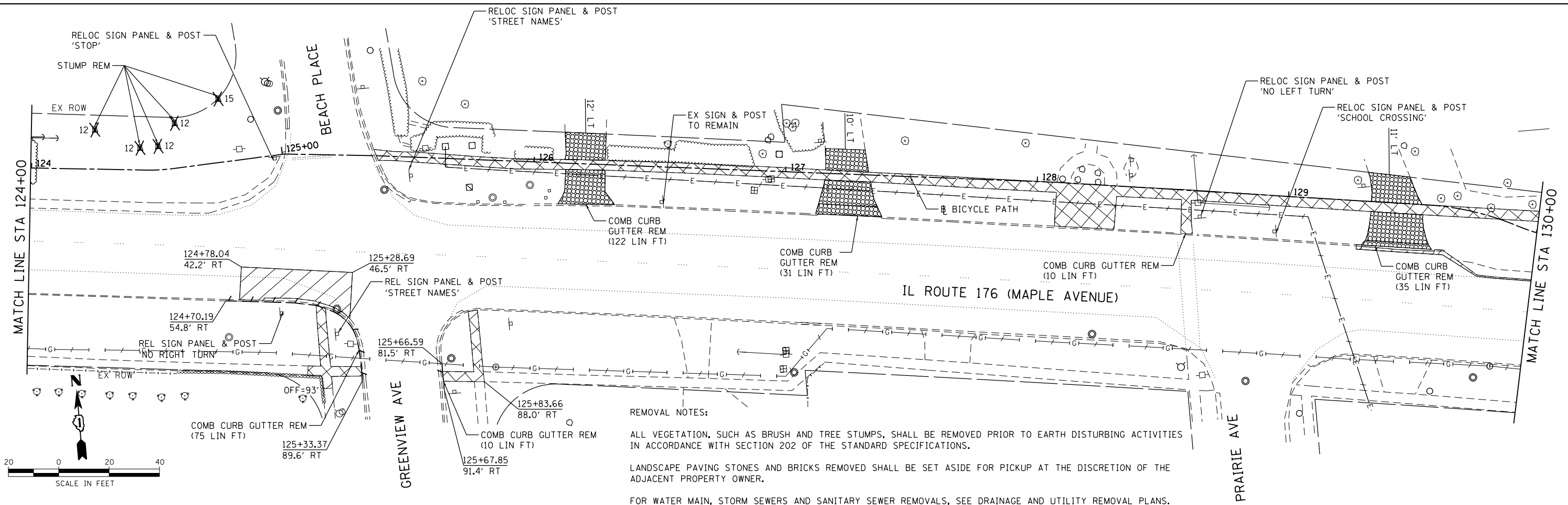
HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = dstencz	DESIGNED - JCH	REVISED -
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PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 IL 176 (W MAPLE AVE) BICYCLE PATH**
 SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA. 112+00.00 TO STA. 124+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	13
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

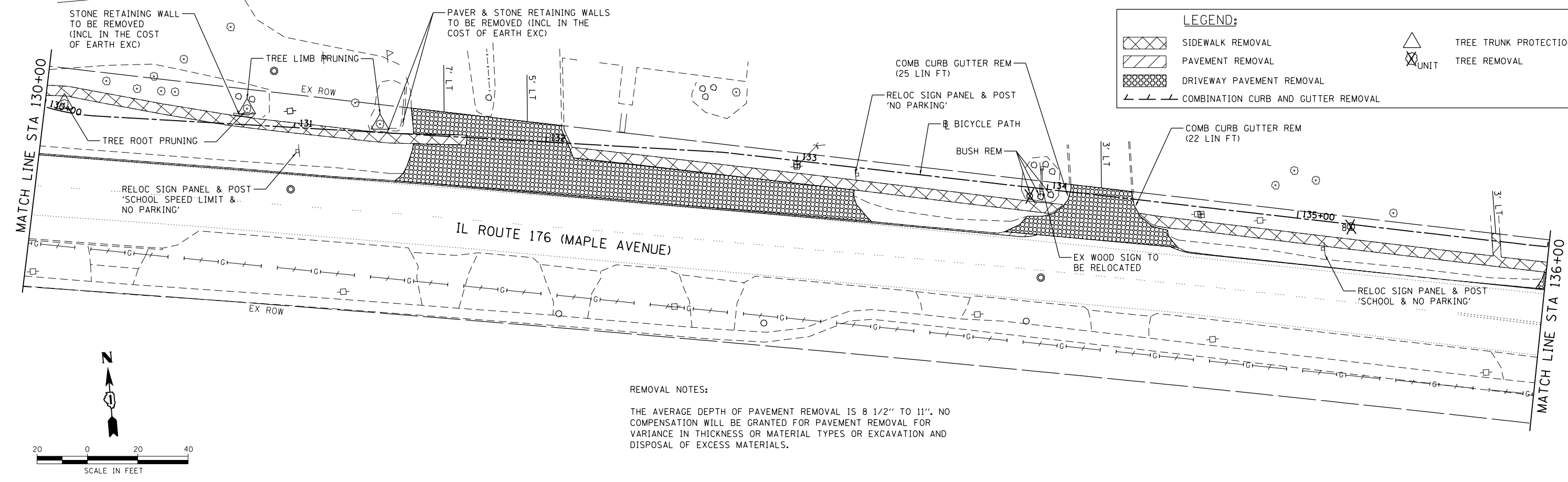


REMOVAL NOTES:

ALL VEGETATION, SUCH AS BRUSH AND TREE STUMPS, SHALL BE REMOVED PRIOR TO EARTH DISTURBING ACTIVITIES IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

LANDSCAPE PAVING STONES AND BRICKS REMOVED SHALL BE SET ASIDE FOR PICKUP AT THE DISCRETION OF THE ADJACENT PROPERTY OWNER.

FOR WATER MAIN, STORM SEWERS AND SANITARY SEWER REMOVALS, SEE DRAINAGE AND UTILITY REMOVAL PLANS.



LEGEND:

- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE TRUNK PROTECTION UNIT
- TREE REMOVAL

REMOVAL NOTES:

THE AVERAGE DEPTH OF PAVEMENT REMOVAL IS 8 1/2" TO 11". NO COMPENSATION WILL BE GRANTED FOR PAVEMENT REMOVAL FOR VARIANCE IN THICKNESS OR MATERIAL TYPES OR EXCAVATION AND DISPOSAL OF EXCESS MATERIALS.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT#
 DATE PLOTTED: 5/25/2018 12:02:25 PM
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 PEN TABLE: plot.tbl

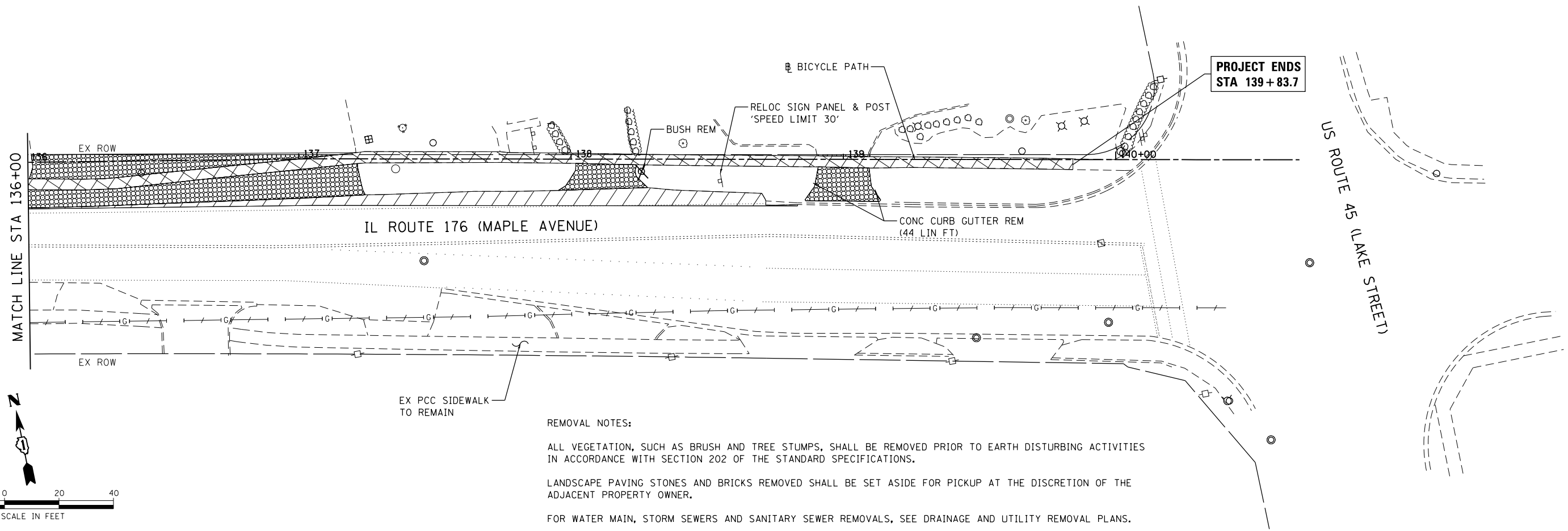


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PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN	
IL 176 (W MAPLE AVE) BICYCLE PATH	
SCALE: 1"=20'	SHEET NO. 3 OF 4 SHEETS
STA. 124+00.00 TO STA. 136+00.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	14
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



REMOVAL NOTES:

ALL VEGETATION, SUCH AS BRUSH AND TREE STUMPS, SHALL BE REMOVED PRIOR TO EARTH DISTURBING ACTIVITIES IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.






LANDSCAPE PAVING STONES AND BRICKS REMOVED SHALL BE SET ASIDE FOR PICKUP AT THE DISCRETION OF THE ADJACENT PROPERTY OWNER.

FOR WATER MAIN, STORM SEWERS AND SANITARY SEWER REMOVALS, SEE DRAINAGE AND UTILITY REMOVAL PLANS.

REMOVAL NOTES:

THE AVERAGE DEPTH OF PAVEMENT REMOVAL IS 8 1/2" TO 11". NO COMPENSATION WILL BE GRANTED FOR PAVEMENT REMOVAL FOR VARIANCE IN THICKNESS OR MATERIAL TYPES OR EXCAVATION AND DISPOSAL OF EXCESS MATERIALS.

LEGEND:

-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE TRUNK PROTECTION
-  TREE REMOVAL

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 5/25/2018 12:02:29 PM
 FILE NAME: 033-sht-rem04.dgn
 PLOT DRIVER: IL.pdf.hwtrfcfg
 PEN TABLE: plotlabel.tbl

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 #184-001322

USER NAME = dstencz	DESIGNED - JCH	REVISED -
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PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 IL 176 (W MAPLE AVE) BICYCLE PATH**

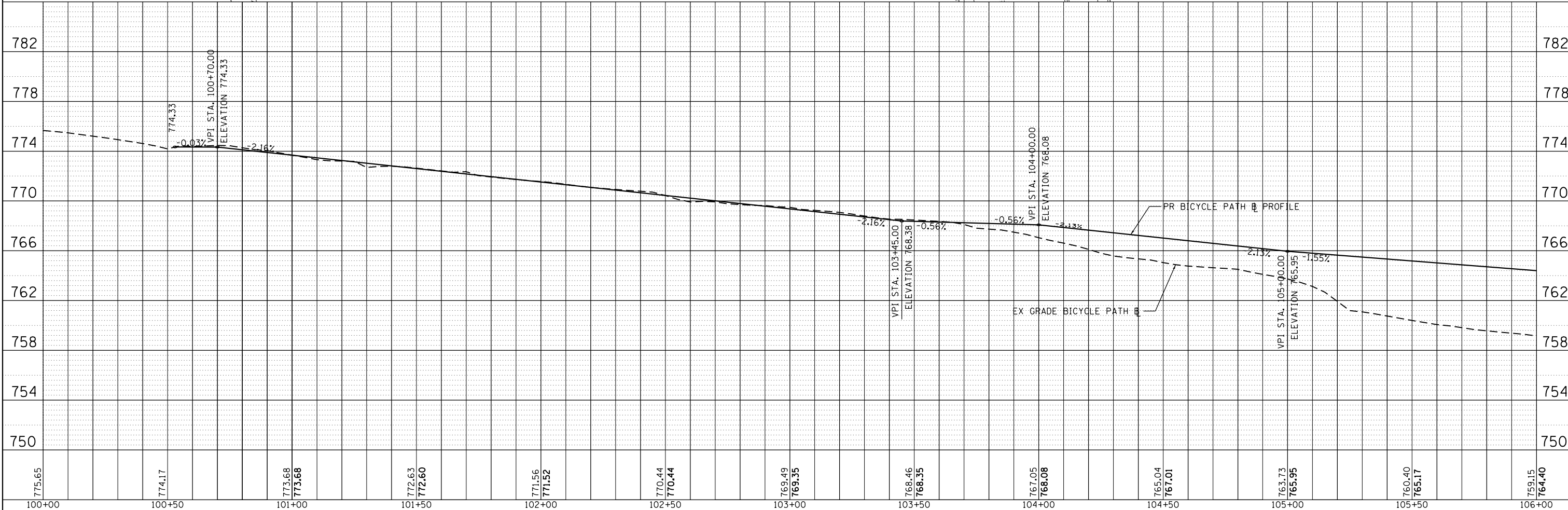
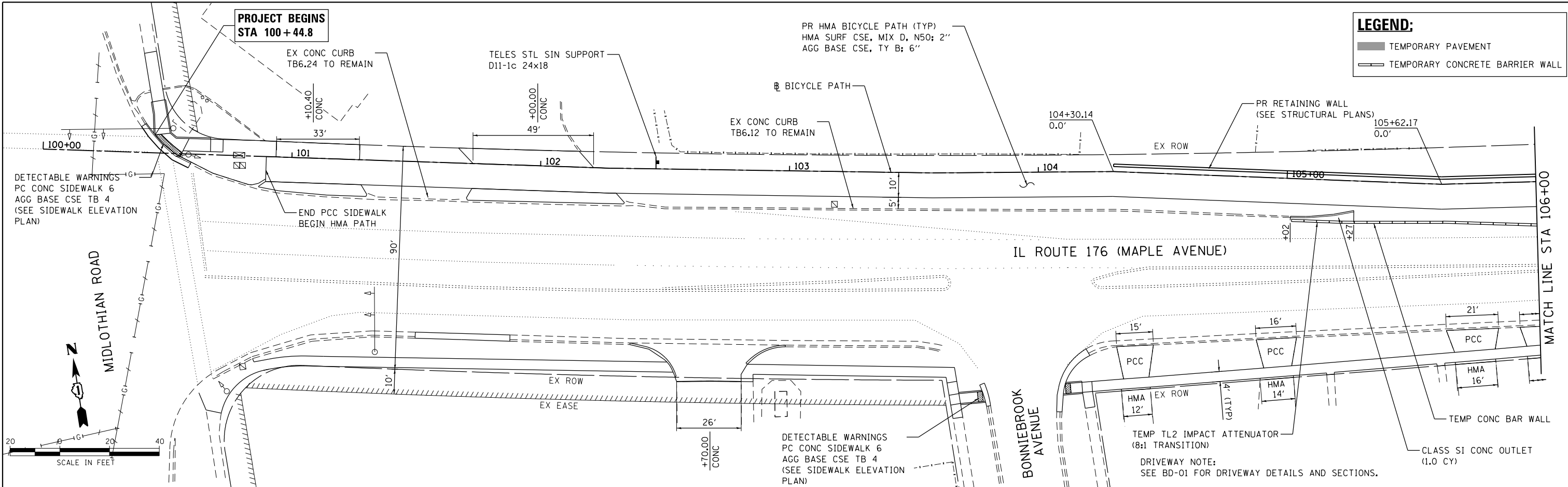
SCALE: 1"=20' SHEET NO. 4 OF 4 SHEETS STA. 136+00.00 TO STA. 140+05.20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	15
CONTRACT NO.			61E17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	FILED	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	FILED	
	NO. _____	

HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 023-srt-ppp01.dgn
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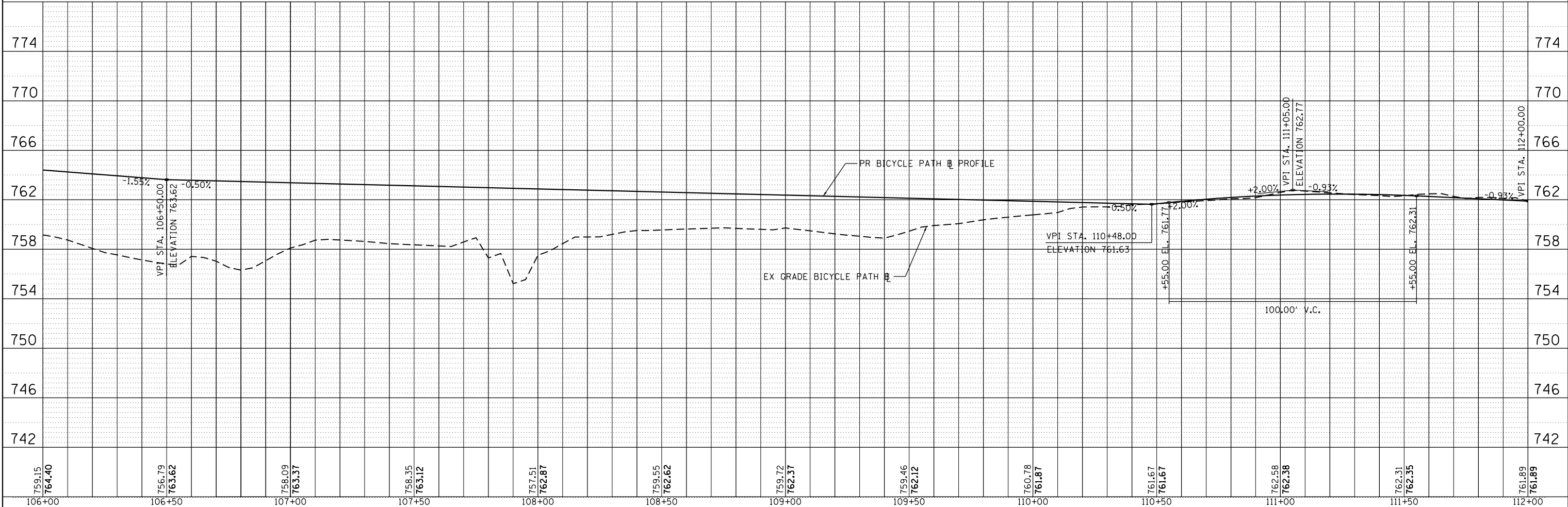
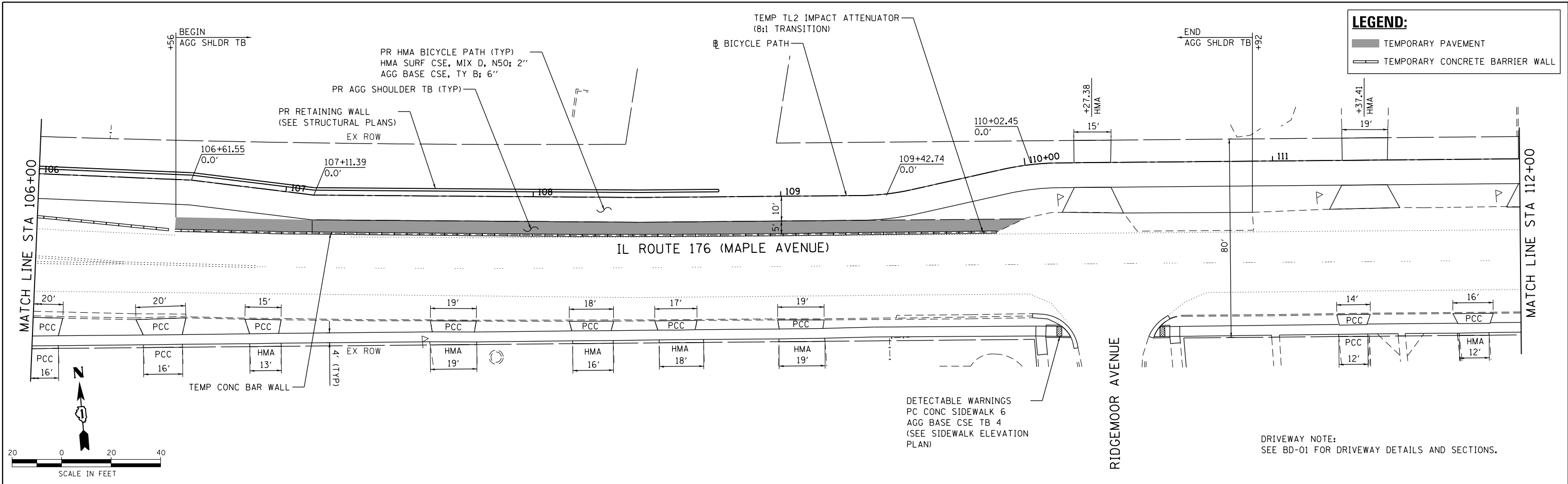


	HRGreen.com Micro Professional Design Firm #184-001322	USER NAME = dstencz DESIGNED - JCH DRAWN - DMS CHECKED - JJS DATE - 5/25/2018	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE IL 176 (W MAPLE AVE) BICYCLE PATH	F.A.U. RTE. 1238 SECTION NO. 15-00101-00-BT COUNTY LAKE CONTRACT NO. 61E17	TOTAL SHEETS 87 SHEET NO. 16
	SCALE: 1"=20' SHEET NO. 1 OF 7 SHEETS STA. 100+44.80 TO STA. 106+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
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HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 023-srt-pp02.dgn
 FILE NAME: 170033.ctb
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106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00

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USER NAME = dstencz	DESIGNED - JCH	REVISED -
DRAWN - DMS	REVISOR -	
CHECKED - JJS	REVISOR -	
DATE - 5/25/18	REVISOR -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN AND PROFILE
 IL 176 (W MAPLE AVE) BICYCLE PATH**

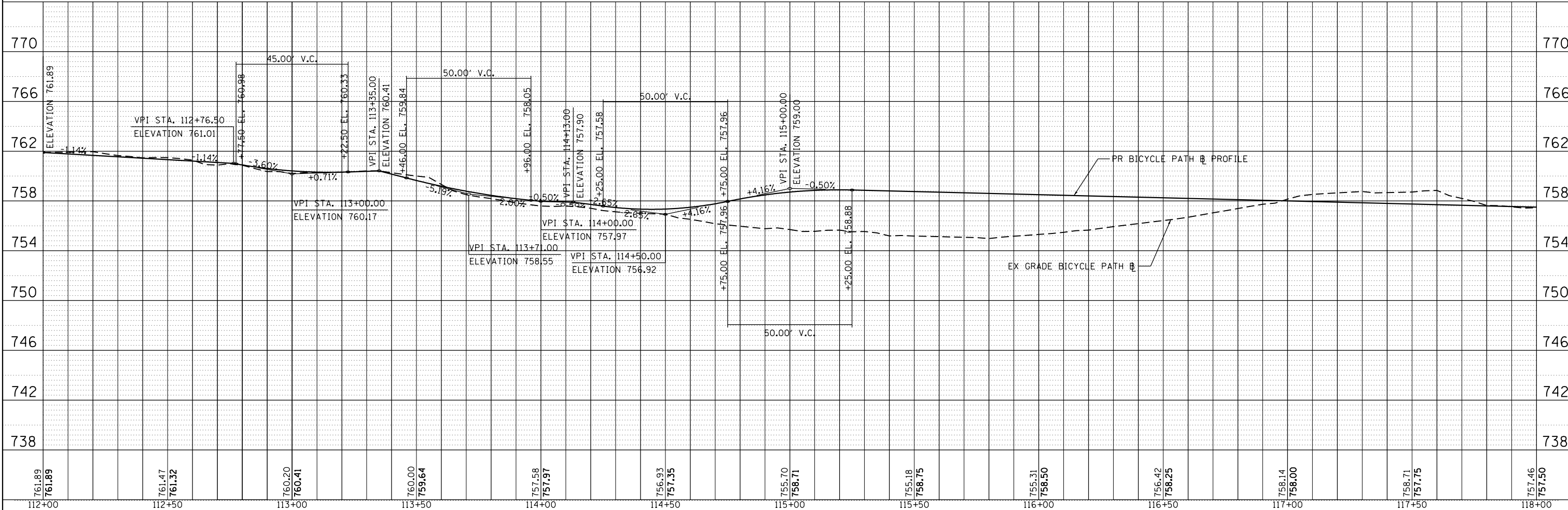
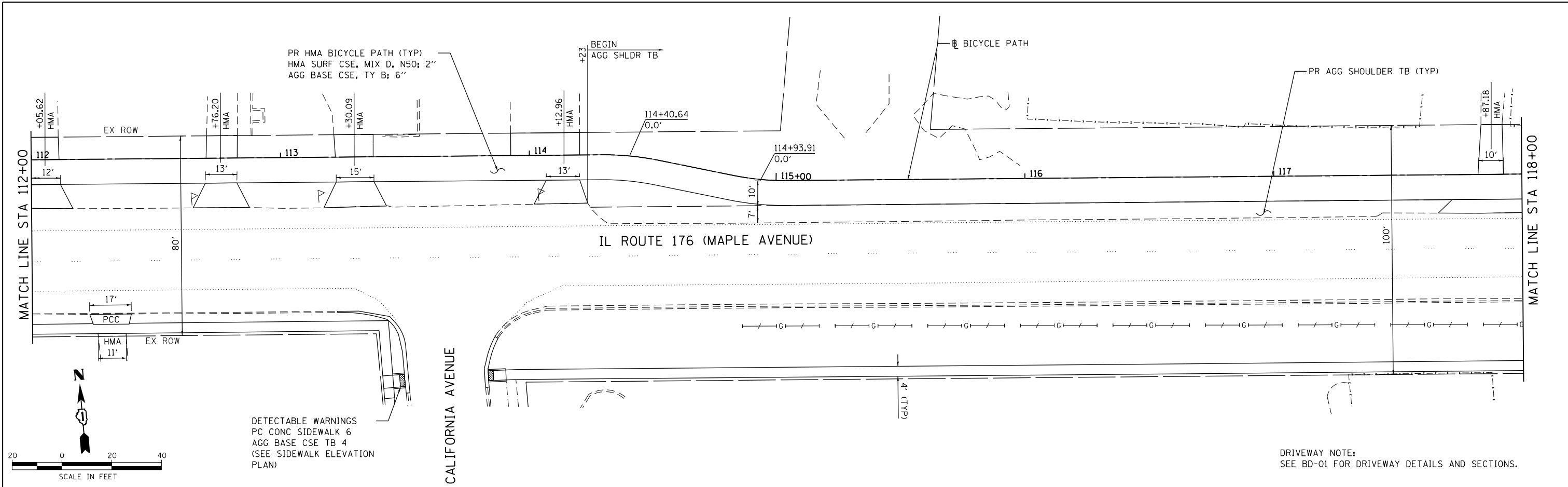
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	17
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
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HRG PROJECT NO.: 170033
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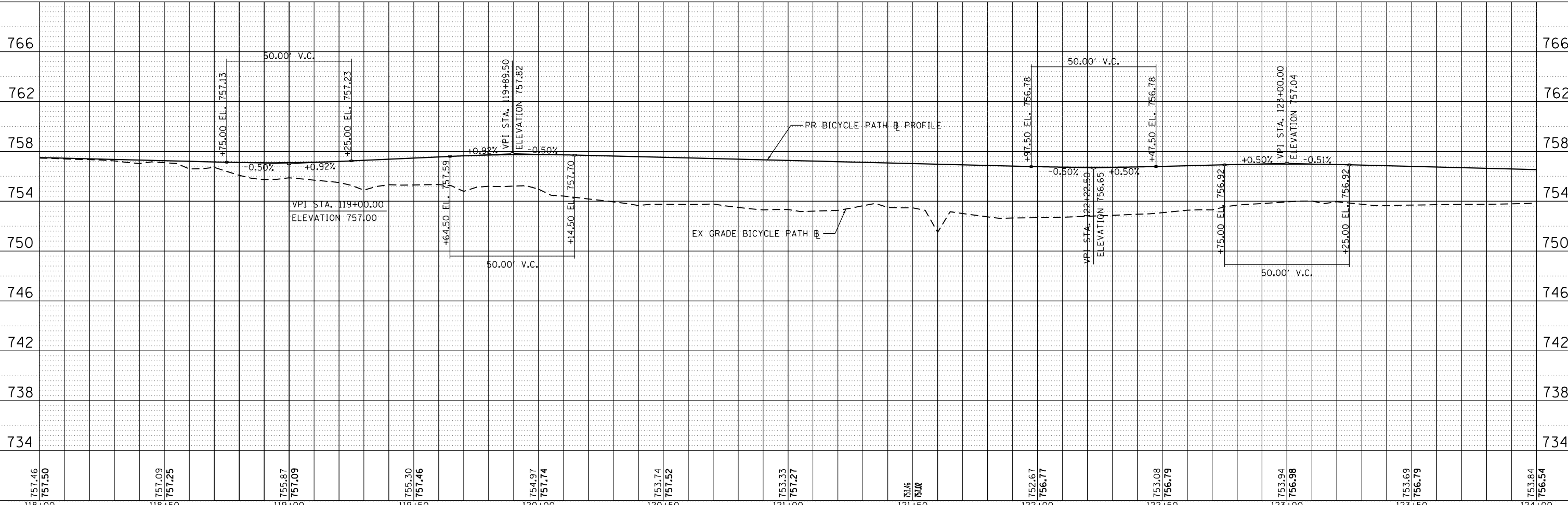
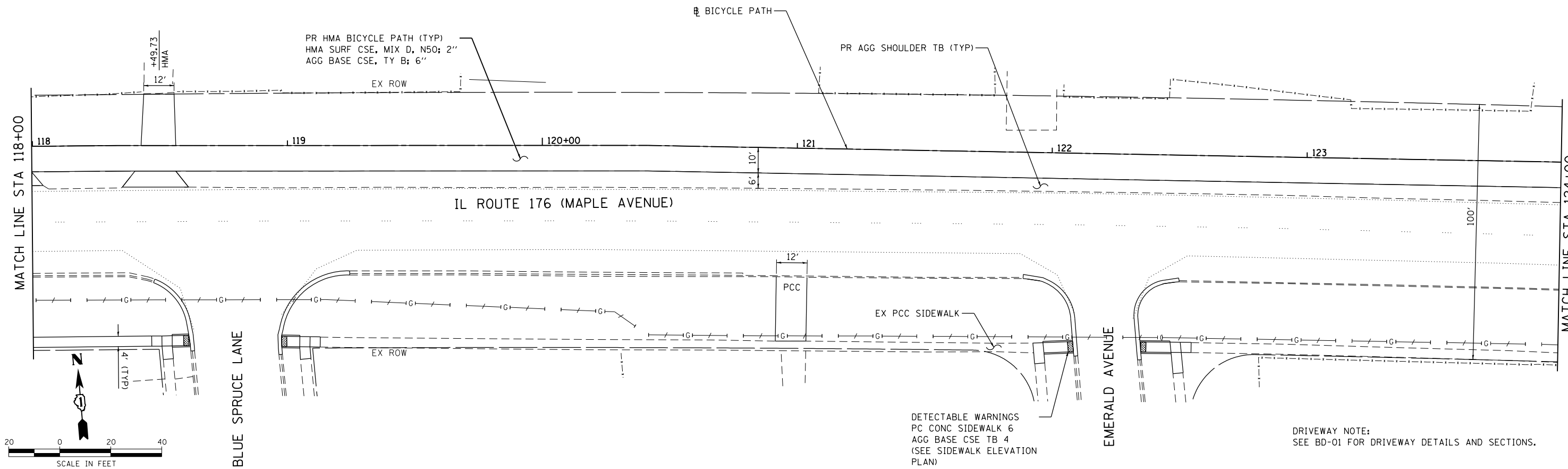


USER NAME = dstencz	DESIGNED - JCH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE		F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1"=20'	DRAWN - DMS	REVISED -		IL 176 (W MAPLE AVE) BICYCLE PATH		1238	15-00101-00-BT	LAKE	87	18
PLOT DATE = 5/25/2018	CHECKED - JJS	REVISED -		SCALE: 1"=20'		SHEET NO. 3 OF 7 SHEETS		CONTRACT NO. 61E17		
	DATE - 5/25/18	REVISED -		STA. 112+00.00 TO STA. 118+00.00		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
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HRG PROJECT NO.: 170033
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118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00

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 Illinois Professional Design Firm
 #184-001322

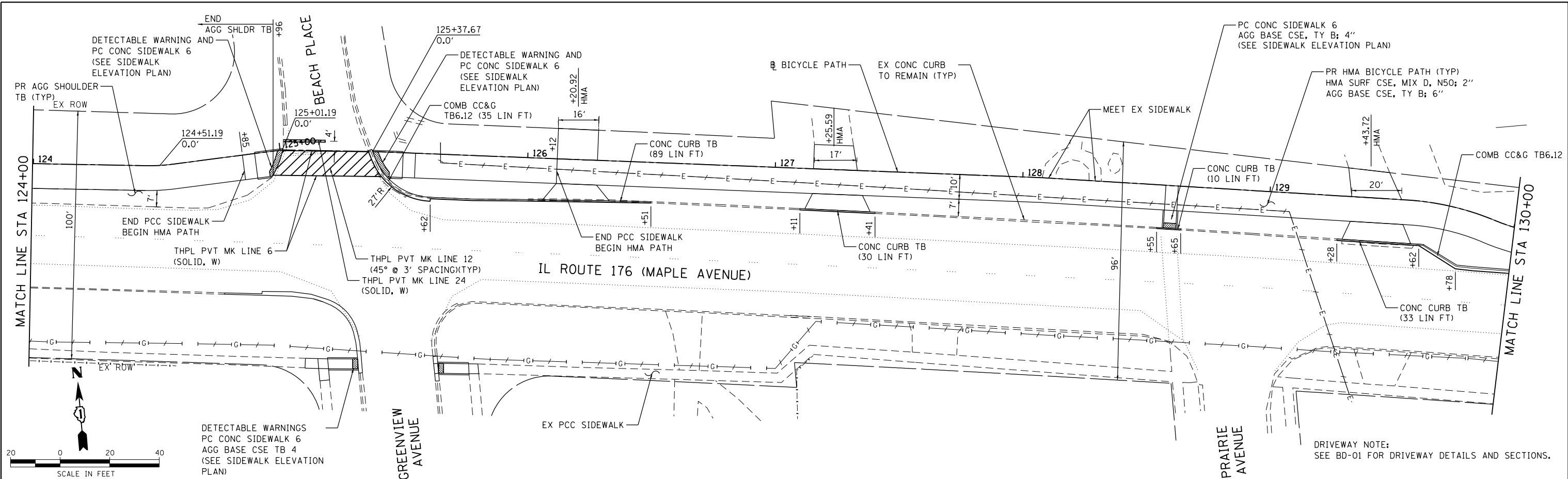
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PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

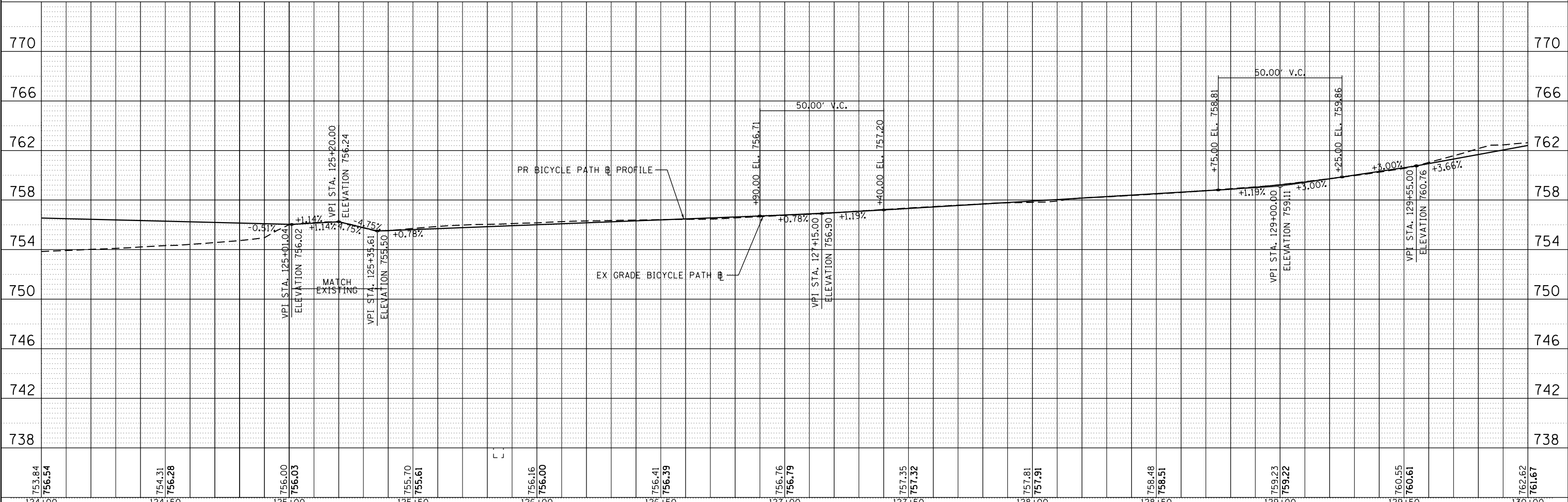
**ROADWAY PLAN AND PROFILE
 IL 176 (W MAPLE AVE) BICYCLE PATH**
 SCALE: 1"=20' SHEET NO. 4 OF 7 SHEETS STA. 118+00.00 TO STA. 124+00.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	19
CONTRACT NO. 61E17			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	CHECKED	
	APPROVED	
	FILED	
	NO. _____	



PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	CHECKED	
	APPROVED	
	FILED	
	NO. _____	



HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 023-srt-pp05.dgn
 FILE NAME: 170033.dwg
 PEN TABLE: p01tbl.tbl

HRGreen
 HRGreen.com
 Micro Professional Design Firm
 #184-001322

USER NAME = dstencz	DESIGNED - JCH	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN AND PROFILE
 IL 176 (W MAPLE AVE) BICYCLE PATH**

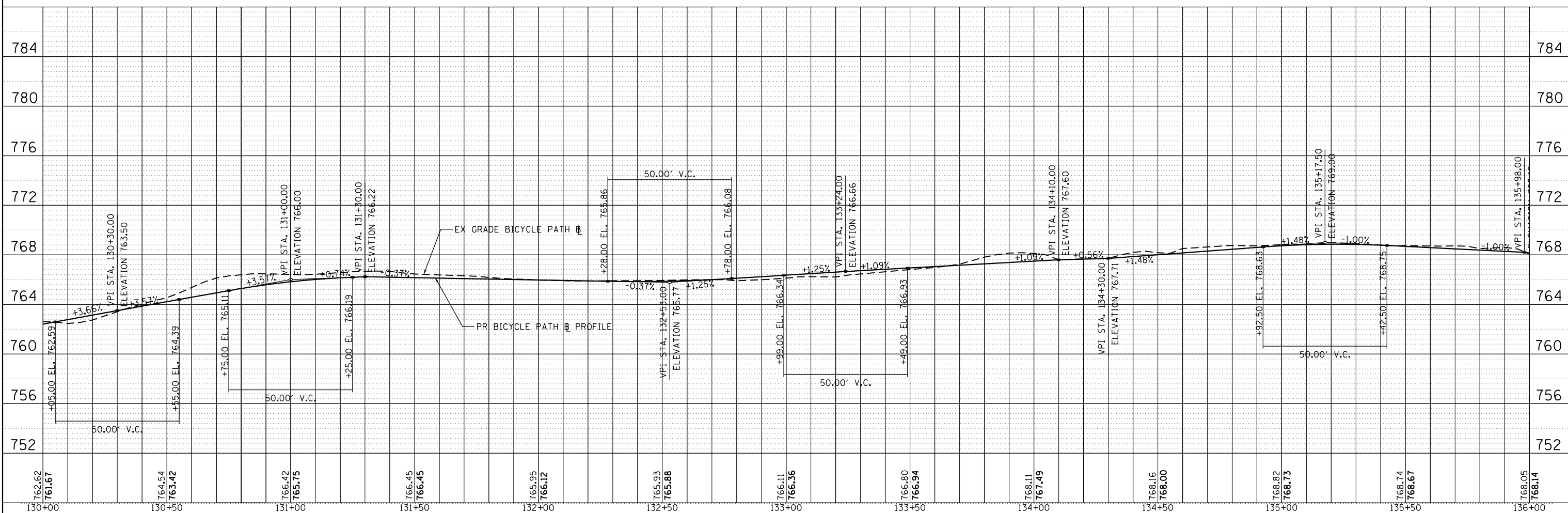
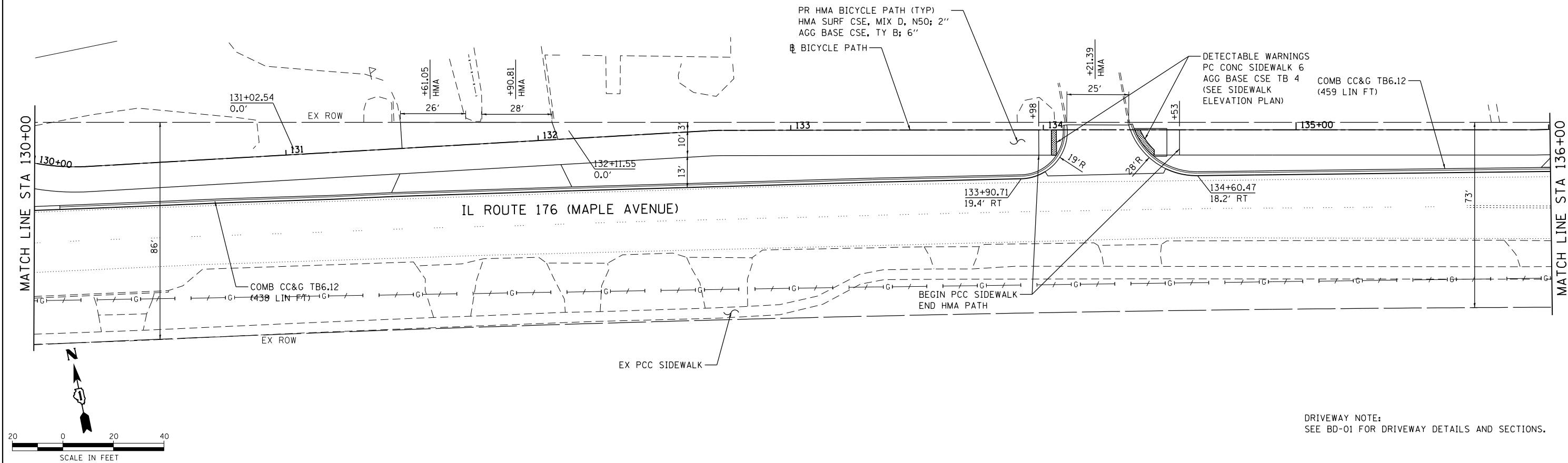
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	20
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 023-srt-ppp06.dgn
 FILE NAME: 170033-01-001-001-001.dwg
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130+00	130+50	131+00	131+50	132+00	132+50	133+00	133+50	134+00	134+50	135+00	135+50	136+00

HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = dstancz
DESIGNED - JCH
DRAWN - DMS
CHECKED - JJS
DATE - 5/25/18

REVISIED -
REVISIED -
REVISIED -
REVISIED -

PLOT SCALE = 1"=20'
PLOT DATE = 5/25/2018

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN AND PROFILE
 IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: 1"=20' SHEET NO. 6 OF 7 SHEETS STA. 130+00.00 TO STA. 136+00.00

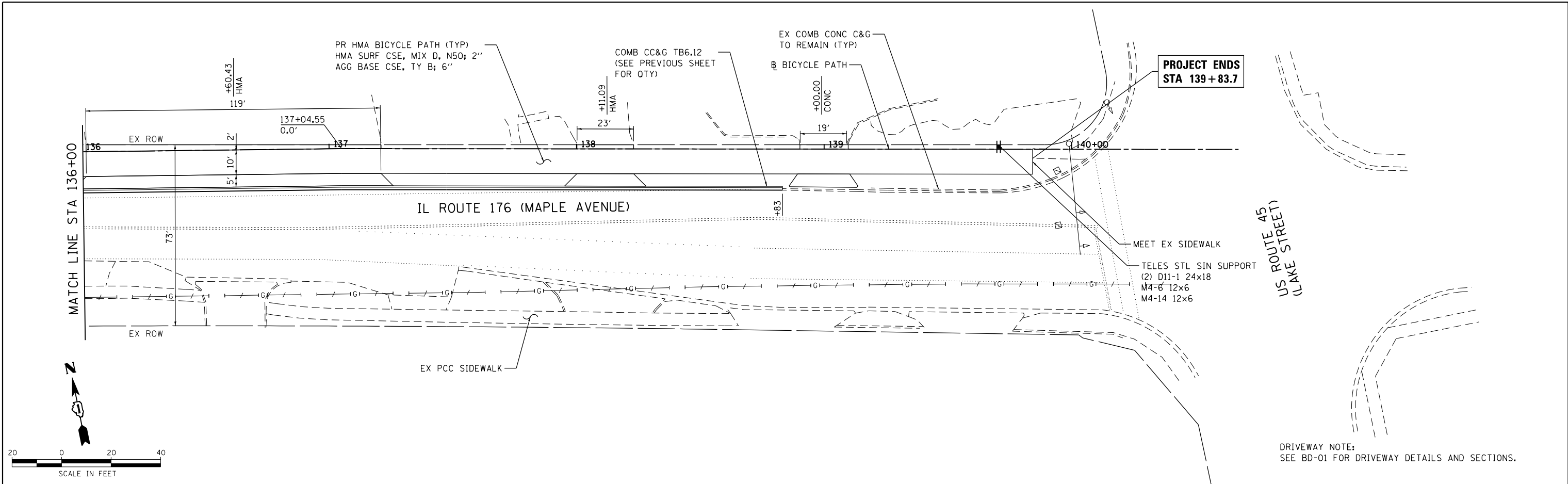
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	21
CONTRACT NO. 61E17			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

DRIVEWAY NOTE:
 SEE BD-01 FOR DRIVEWAY DETAILS AND SECTIONS.

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	CARD FILE NAME	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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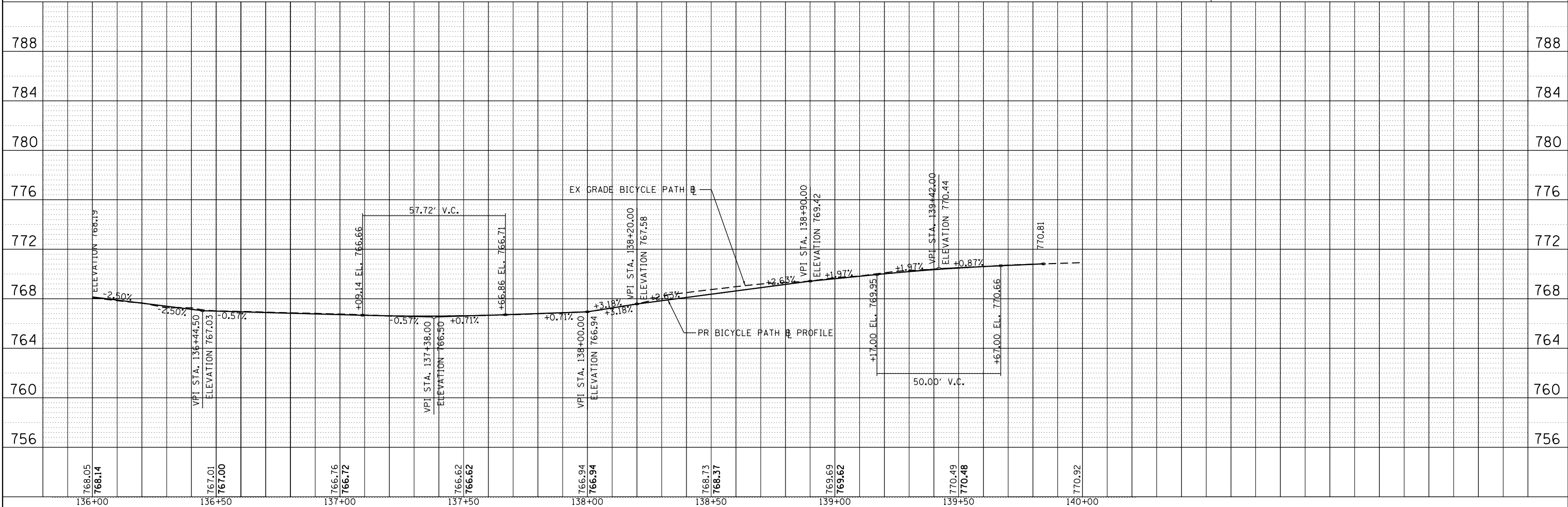
HRG PROJECT NO.: 170033
 HRG PROJ CONTACT: 023-srt-ppp07.dgn
 FILE NAME: 15-00101-00-BT.dwg
 PEN TABLE: pcc.tbl



**PROJECT ENDS
 STA 139+83.7**

US ROUTE 45
 (LAKE STREET)

DRIVEWAY NOTE:
 SEE BD-01 FOR DRIVEWAY DETAILS AND SECTIONS.



768.05 768.14	767.01 767.00	766.76 766.72	766.62 766.62	766.94 766.94	768.73 768.37	769.69 769.62	770.49 770.48	770.92
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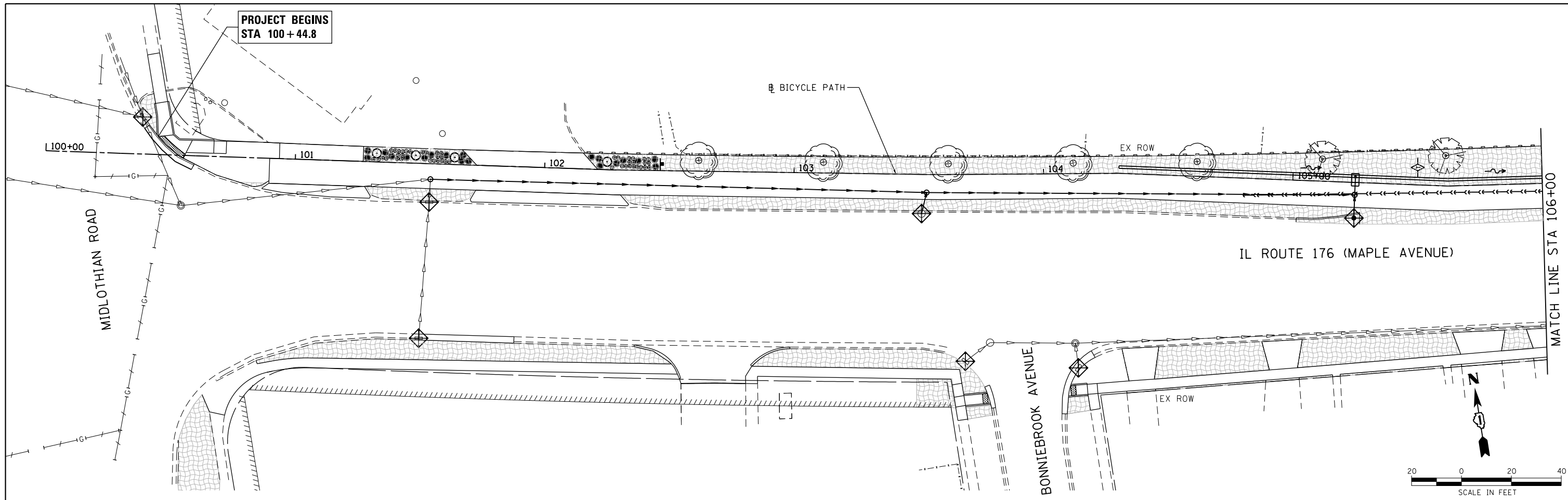
HRGreen
 HRGreen.com
 Micro Professional Design Firm
 #184-001322

USER NAME = dstancz	DESIGNED - JCH	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

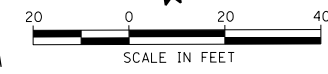
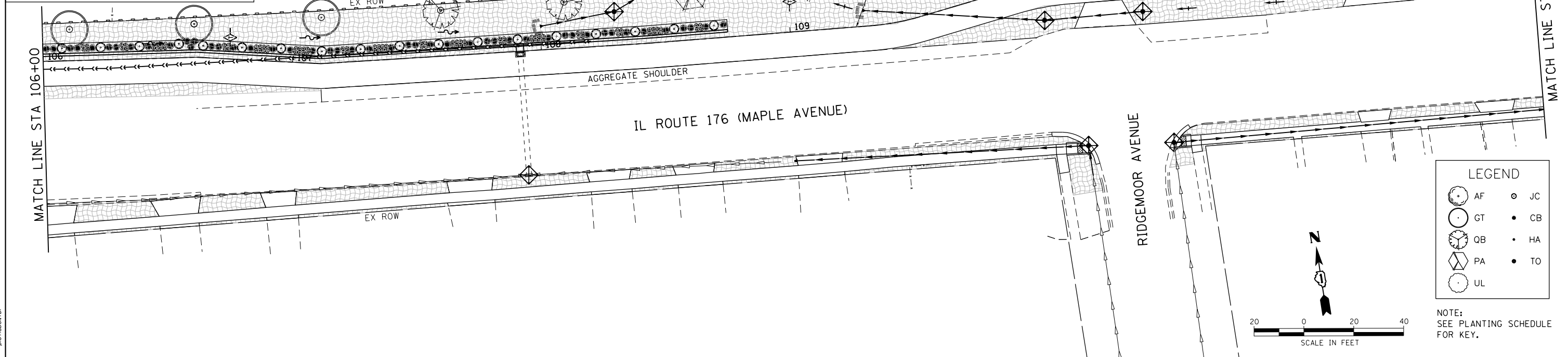
**ROADWAY PLAN AND PROFILE
 IL 176 (W MAPLE AVE) BICYCLE PATH**
 SCALE: 1"=20' SHEET NO. 7 OF 7 SHEETS STA. 136+00.00 TO STA. 140+05.20

F.A.U R.T.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	22
CONTRACT NO. 61E17			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



- LEGEND:**
- INLET FILTERS (EA)
 - PERIMETER EROSION BARRIER (FT)
 - TEMPORARY DITCH CHECK (FT)
 - INLET AND PIPE PROTECTION (EA)
 - SEEDING, CLASS 1A (AC)
TOPSOIL, FURNISH AND PLACE, 4" (SQ YD)
EROSION CONTROL BLANKET (SQ YD)
TEMPORARY EROSION CONTROL SEEDING (LB)
(APPLICATION RATE = 100 LB/ACRE)

EROSION CONTROL NOTE:
IN ACCORDANCE WITH DISTRICT 1 POLICY
STRAW/HAY BALES WILL NOT BE ALLOWED
FOR INLET AND PIPE PROTECTION.



- LEGEND**
- AF
 - GT
 - QB
 - PA
 - UL
 - JC
 - CB
 - HA
 - TO

NOTE:
SEE PLANTING SCHEDULE
FOR KEY.

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/25/2018 12:03:09 PM
FILE NAME: 033-err-eros01.dgn
PLOT DRIVER: IL.pdf.bw.dwt
PEN TABLE: plot.tbl



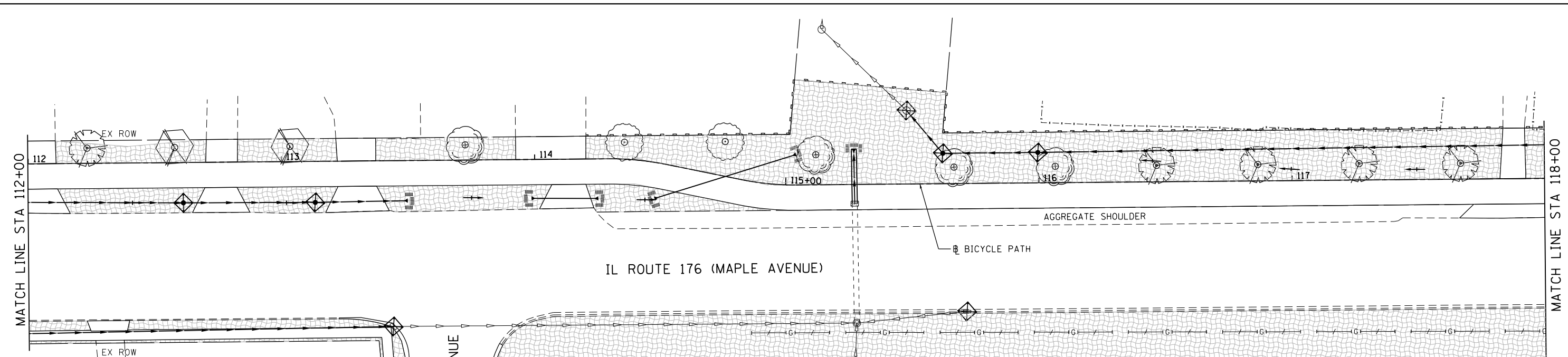
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PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH**

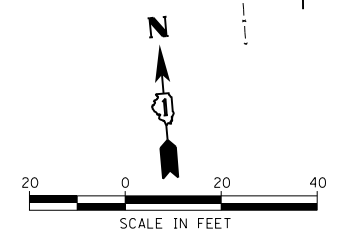
SCALE: 1"=20' SHEET NO. 1 OF 4 SHEETS STA. 100+44.80 TO STA. 112+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	23
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

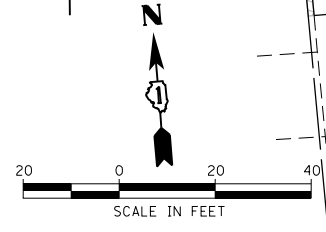
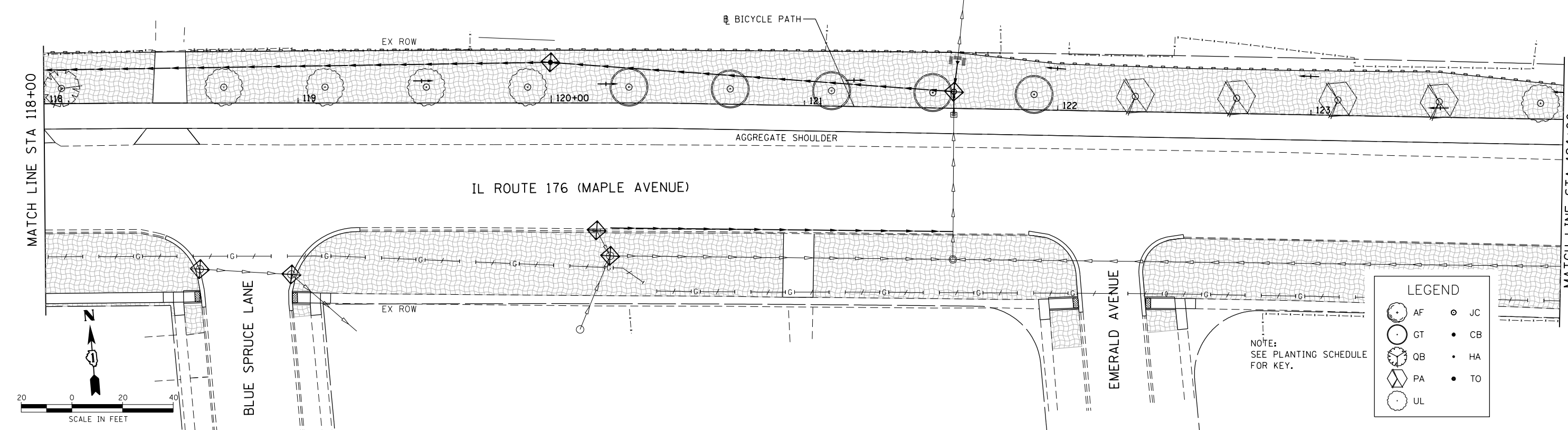


LEGEND:

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- INLET AND PIPE PROTECTION (EA)
- SEEDING, CLASS 1A (AC)
TOPSOIL, FURNISH AND PLACE, 4" (SO YD)
EROSION CONTROL BLANKET (SO YD)
TEMPORARY EROSION CONTROL SEEDING (LB)
(APPLICATION RATE = 100 LB/ACRE)



EROSION CONTROL NOTE:
IN ACCORDANCE WITH DISTRICT 1 POLICY
STRAW/HAY BALES WILL NOT BE ALLOWED
FOR INLET AND PIPE PROTECTION.



LEGEND

- AF
- GT
- QB
- PA
- UL
- JC
- CB
- HA
- TO

NOTE:
SEE PLANTING SCHEDULE
FOR KEY.

COMPANY NAME: HRGreen.com
PROJECT CONTACT: PROJECT CONTACTS
DATE PLOTTED: 5/25/2018 12:03:14 PM
FILE NAME: 033-err-eros02.dgn
PLOT DRIVER: IL.pdf.plt
PEN TABLE: plot.tbl



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PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

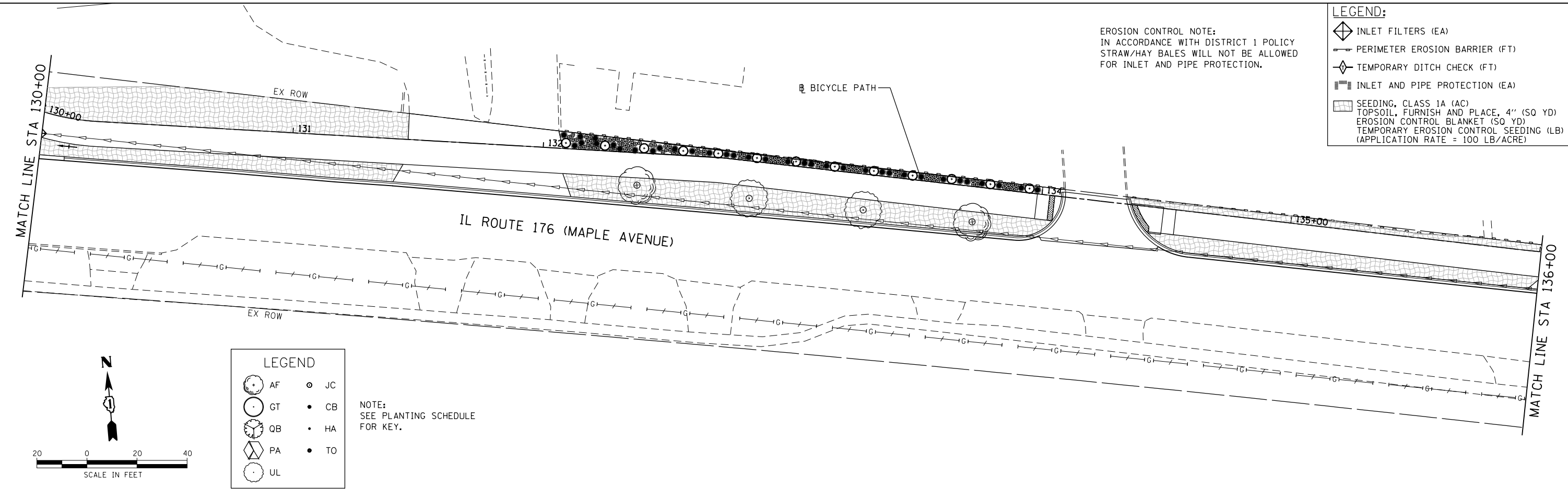
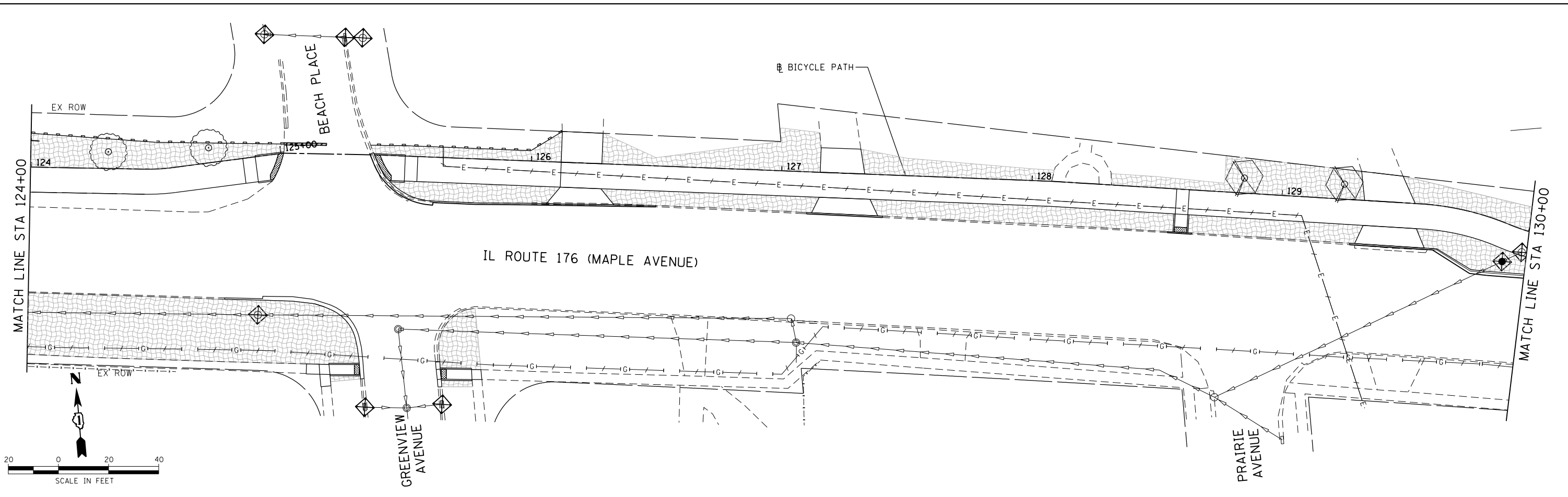
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA. 112+00.00 TO STA. 124+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	24
CONTRACT NO. 61E17				

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



EROSION CONTROL NOTE:
 IN ACCORDANCE WITH DISTRICT 1 POLICY
 STRAW/HAY BALES WILL NOT BE ALLOWED
 FOR INLET AND PIPE PROTECTION.

- LEGEND:**
- INLET FILTERS (EA)
 - PERIMETER EROSION BARRIER (FT)
 - TEMPORARY DITCH CHECK (FT)
 - INLET AND PIPE PROTECTION (EA)
 - SEEDING, CLASS 1A (AC)
 - TOPSOIL, FURNISH AND PLACE, 4" (50 YD)
 - EROSION CONTROL BLANKET (50 YD)
 - TEMPORARY EROSION CONTROL SEEDING (LB)
(APPLICATION RATE = 100 LB/ACRE)

- LEGEND**
- AF
 - GT
 - QB
 - PA
 - UL
 - JC
 - CB
 - HA
 - TO

NOTE:
 SEE PLANTING SCHEDULE
 FOR KEY.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECTCONTACT#
 DATE PLOTTED: 5/25/2018 12:03:21 PM
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 PEN TABLE: plot.tbl



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 PLOT DATE = 5/25/2018

DESIGNED - JCH
 DRAWN - DMS
 CHECKED - JJS
 DATE - 5/25/18

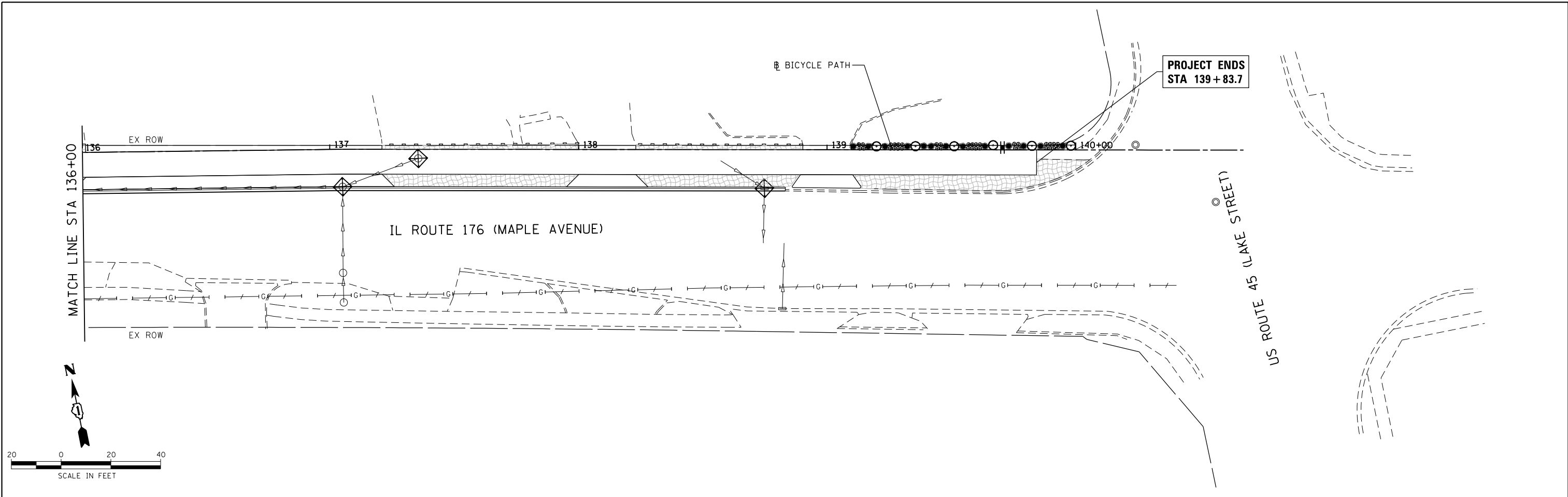
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING PLAN
 IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: 1"=20' SHEET NO. 3 OF 4 SHEETS STA. 124+00.00 TO STA. 136+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	25
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- LEGEND:**
- INLET FILTERS (EA)
 - PERIMETER EROSION BARRIER (FT)
 - TEMPORARY DITCH CHECK (FT)
 - INLET AND PIPE PROTECTION (EA)
 - SEEDING, CLASS 1A (AC)
TOPSOIL, FURNISH AND PLACE, 4" (SQ YD)
EROSION CONTROL BLANKET (SQ YD)
TEMPORARY EROSION CONTROL SEEDING (LB)
(APPLICATION RATE = 100 LB/ACRE)

EROSION CONTROL NOTE:
IN ACCORDANCE WITH DISTRICT 1 POLICY
STRAW/HAY BALES WILL NOT BE ALLOWED
FOR INLET AND PIPE PROTECTION.

- LEGEND**
- AF
 - GT
 - QB
 - PA
 - UL
 - JC
 - CB
 - HA
 - TO

NOTE:
SEE PLANTING SCHEDULE
FOR KEY.

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 5/25/2018 12:03:27 PM
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PLOT DRIVER: ILpdf.plt
PEN TABLE: plotlabel.tbl



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PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: 1"=20' SHEET NO. 4 OF 4 SHEETS STA. 136+00.00 TO STA. 140+05.20

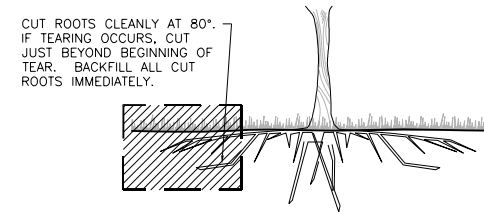
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	26
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLANTING KEY

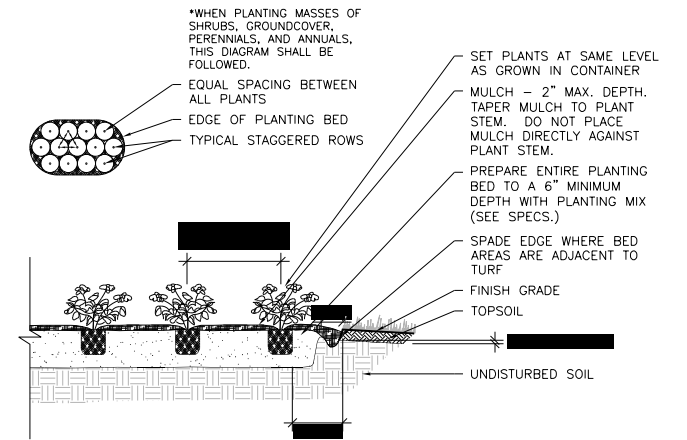
QTY	KEY	BOTANICAL NAME/ITEM	COMMON NAME	SIZE	COND	REMARKS
DECIDUOUS TREES						
11	AF	ACER X FREEMANII AUTUMN FANTASY	AUTUMN FANTASY MAPLE	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
10	GT	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SKYCOLE'	SKYLINE HONEYLOCUST	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
10	PA	PLATANUS X ACERIFOLIA 'MORTON CIRCLE'	EXCLAMATION LONDON PLANETREE	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
10	OB	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
10	UJ	ULMUS AMERICANA PRINCETON	AMERICAN ELM	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
EVERGREEN SHRUBS						
41	JC	JUNIPER CHINENSIS 'GOLD LACE'	JUNIPER	#5	CONT.	SPACING PER PLAN; MATCHED
7	TO	THUJA OCCIDENTALLIS 'BAILJOHN'	TECHNITO ARBORVITAE	#5	CONT.	3' O.C.; MATCHED
PERENNIALS, GRASSES & GROUNDCOVER						
900	HA	HEMEROCALLIS 'APRICOT SPARKLES'	DAYLILY	#1	CONT.	18" O.C.; MATCHED
300	CB	CALAMAGROSTIS BRACHYTRICHA	KOREAN FEATHER REED GRASS	#1	CONT.	3' O.C. (SPACING PER PLAN); MATCHED

PLANTING NOTE:

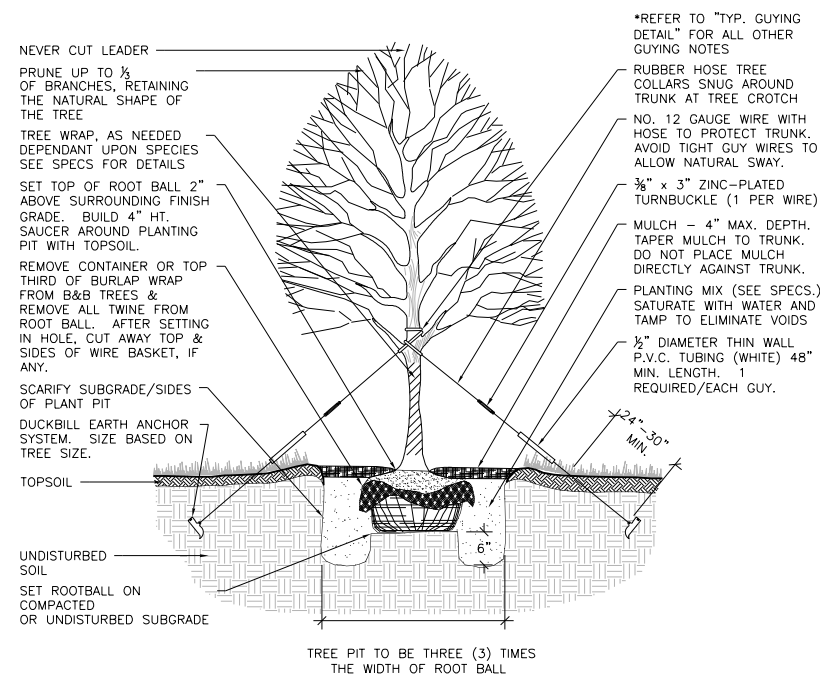
THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ON THE FINAL PLACEMENTS OF THE PLANT MATERIALS TO AVOID ANY CONFLICTS BETWEEN TREES AND UNDERGROUND UTILITY LINES.



TYP. ROOT PRUNING DETAIL
SCALE: NTS

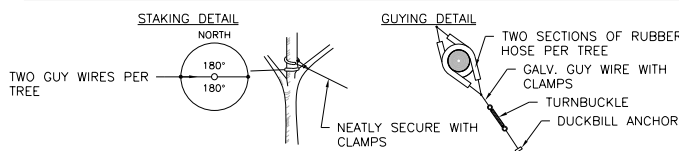


TYP. PERENNIAL PLANTING DETAIL
SCALE: NTS



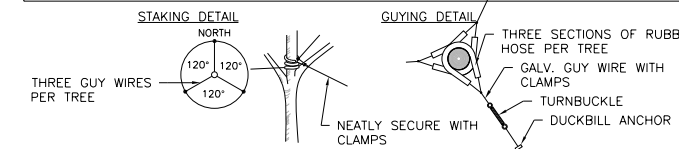
TYP. DECIDUOUS TREE PLANTING DETAIL
SCALE: NTS

GUYING STANDARDS	
•	TWO (2) ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
•	13" OF 1/2" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
•	1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
•	TWO (2) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
•	FOUR (4) 1/4" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
•	TWO (2) RUBBER HOSE TREE COLLARS, 21" LONG, EA.



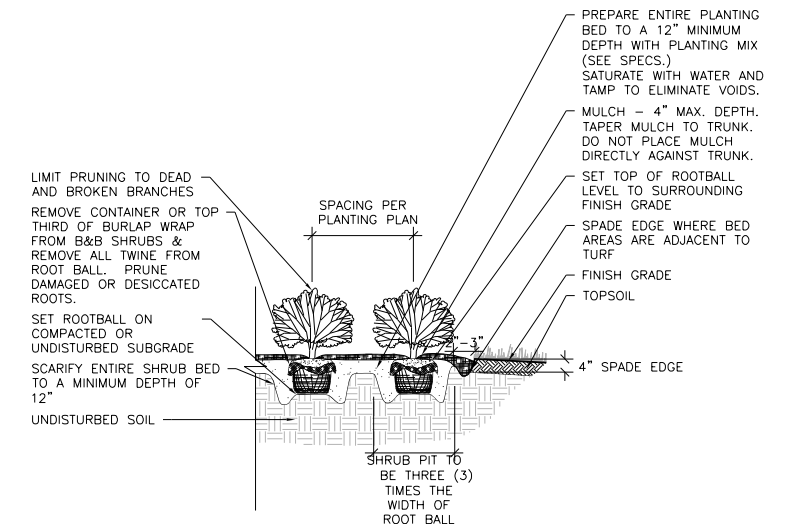
*APPLIES TO SINGLE TRUNK DECIDUOUS TREES 3" CAL. AND LESS & EVERGREEN TREES 8' HT. AND LESS

GUYING STANDARDS	
•	THREE (3) ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
•	13" OF 1/2" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
•	1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
•	THREE (3) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
•	SIX (6) 1/4" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
•	THREE (3) RUBBER HOSE TREE COLLARS, 21" LONG, EA.



*APPLIES TO SINGLE TRUNK DECIDUOUS TREES GREATER THAN 3" CAL. & EVERGREEN TREES GREATER THAN 8' HT.

TYP. GUYING DETAIL
SCALE: NTS



TYP. SHRUB PLANTING DETAIL
SCALE: NTS

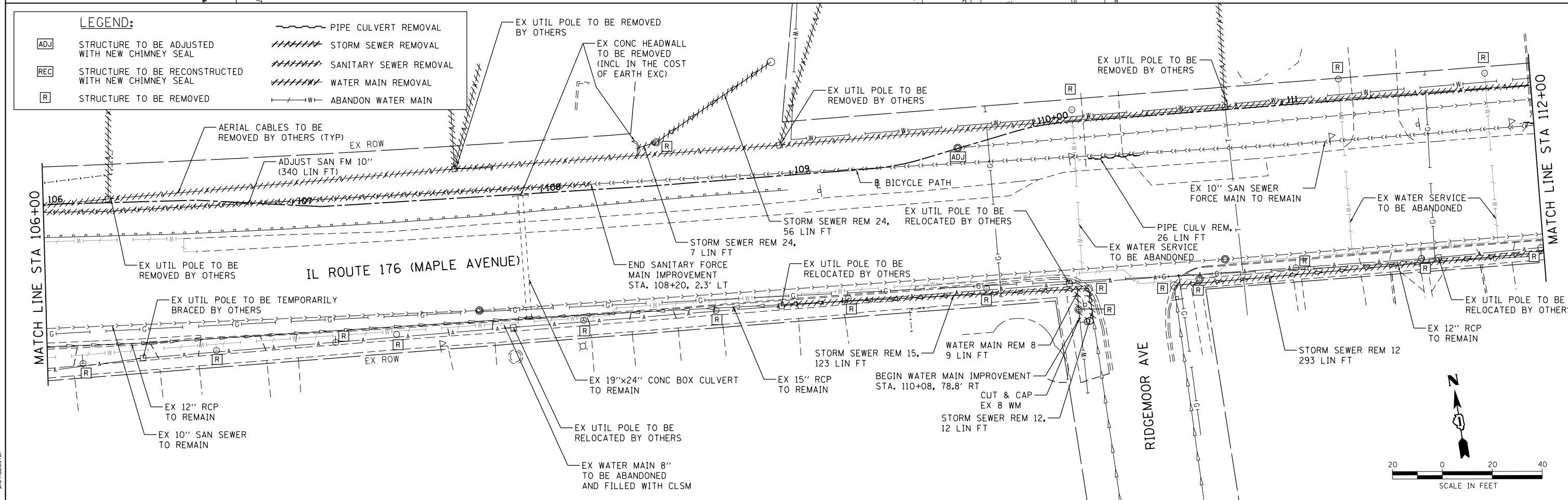
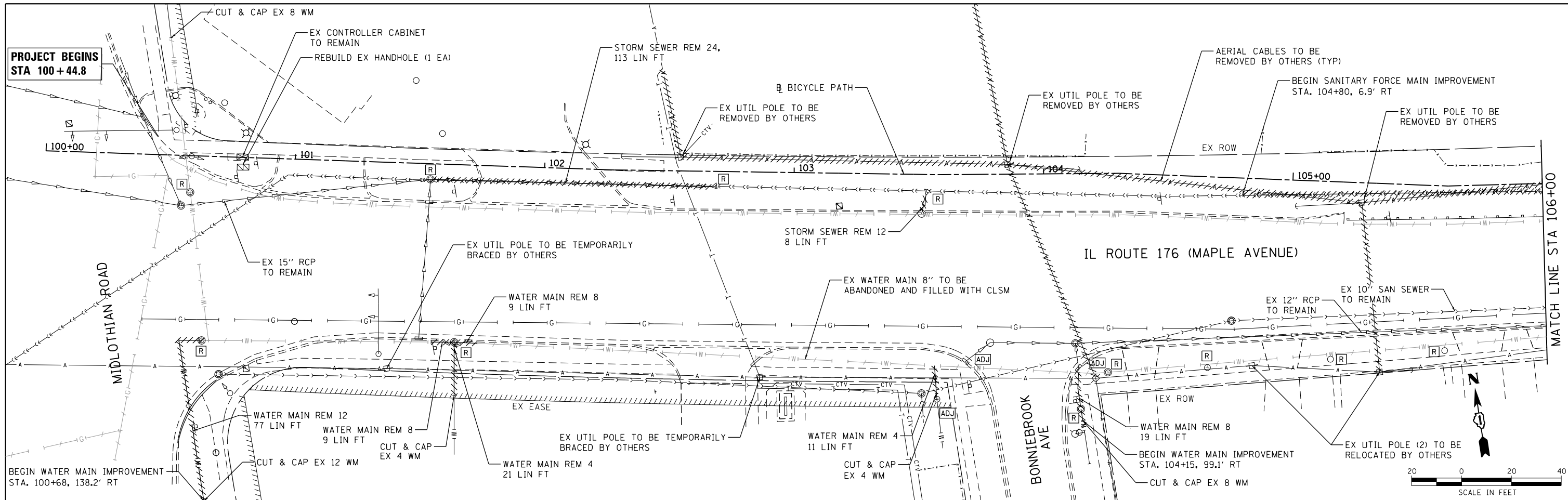
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PROJECT CONTACT: dstancez
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PLOT DRIVER: ILpdf.plt
PEN TABLE: plot.tbl



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PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING SCHEDULE & DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 176 (W MAPLE AVE) BICYCLE PATH		1238	15-00101-00-BT	LAKE	87	27
SCALE: N.T.S.		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	CONTRACT NO. 61E17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				



LEGEND:

[ADJ]	STRUCTURE TO BE ADJUSTED WITH NEW CHIMNEY SEAL	~~~~~	PIPE CULVERT REMOVAL
[REC]	STRUCTURE TO BE RECONSTRUCTED WITH NEW CHIMNEY SEAL		STORM SEWER REMOVAL
[R]	STRUCTURE TO BE REMOVED		SANITARY SEWER REMOVAL
			WATER MAIN REMOVAL
		—W—	ABANDON WATER MAIN

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/25/2018 12:03:38 PM
 FILE NAME: 033-sht-drainrem01.dgn
 PLOT DRIVER: IL.pdf, bw, hfefg
 PEN TABLE: plot.tbl

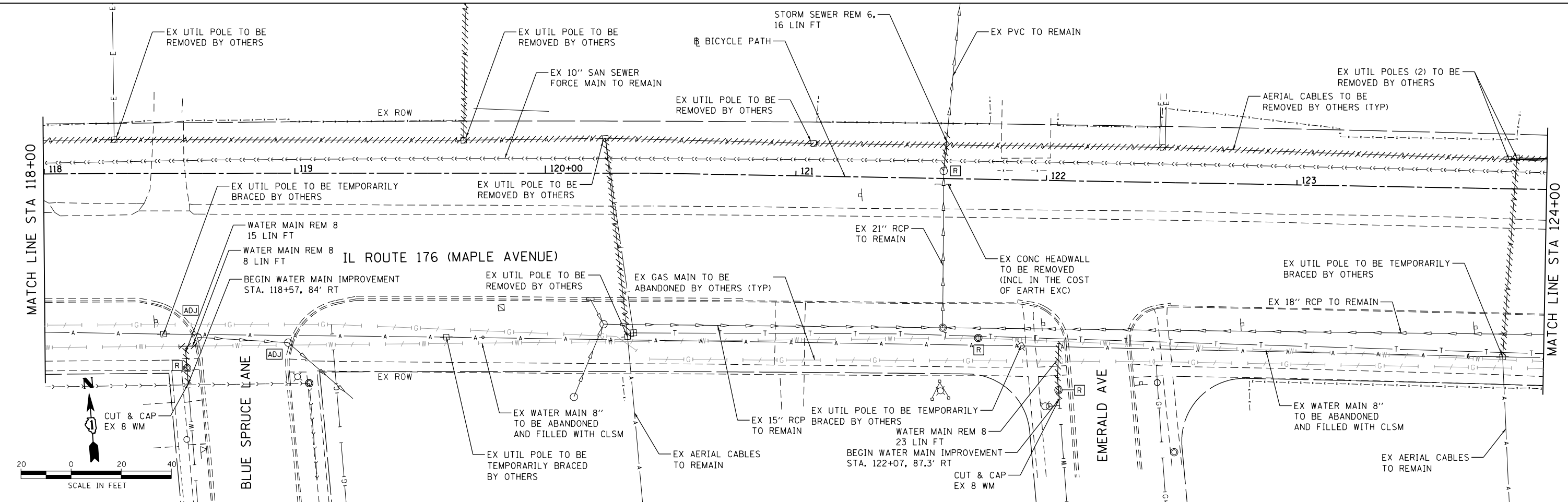
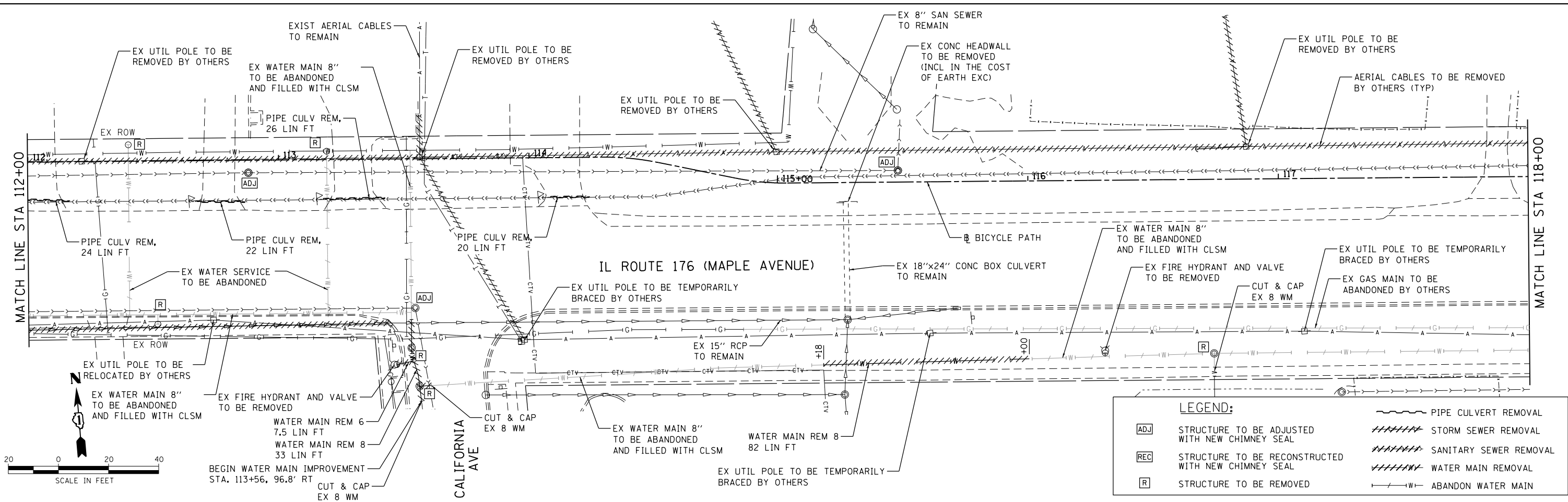
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Illinois Professional Design Firm #184-001322	FILE NAME = 033-sht-drainrem01.dgn	DRAWN - DMS	REVISED -
	PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
	PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE & UTILITY REMOVAL PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: 1"=20' SHEET NO. 1 OF 4 SHEETS STA. 100+44.80 TO STA. 112+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	28
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/25/2018 12:03:43 PM
 FILE NAME: 033-sht-drainrem02.dgn
 PLOT DRIVER: IL.pdf, bw, a1, r1, f1, q
 PEN TABLE: plot.tbl

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

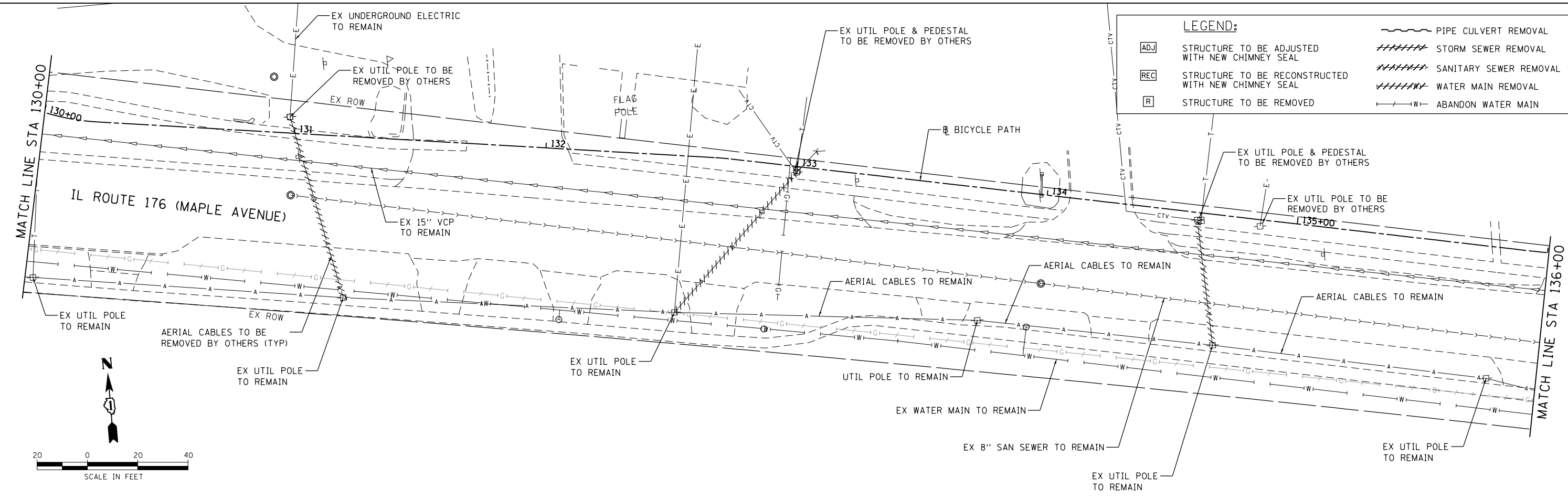
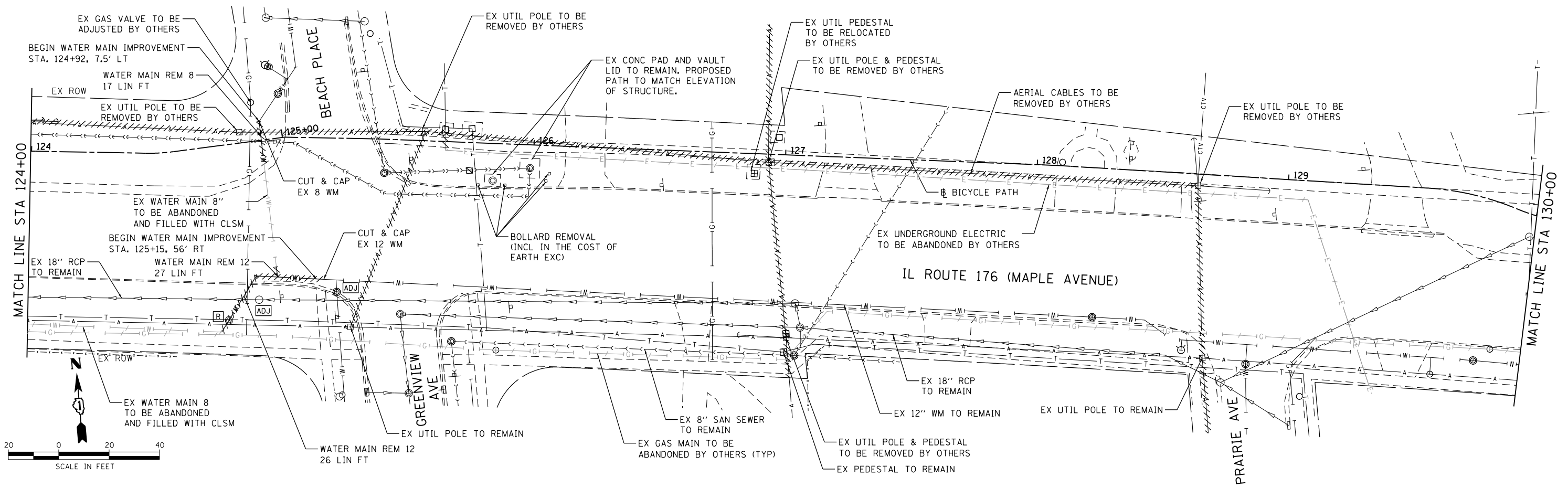
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PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY REMOVAL PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH

SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA. 112+00.00 TO STA. 124+00.00

F.A.U. RTE. 1238	SECTION 15-00101-00-BT	COUNTY LAKE	TOTAL SHEETS 87	SHEET NO. 29
CONTRACT NO. 61E17			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/25/2018 12:03:49 PM
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 PEN TABLE: plotabel.tbl



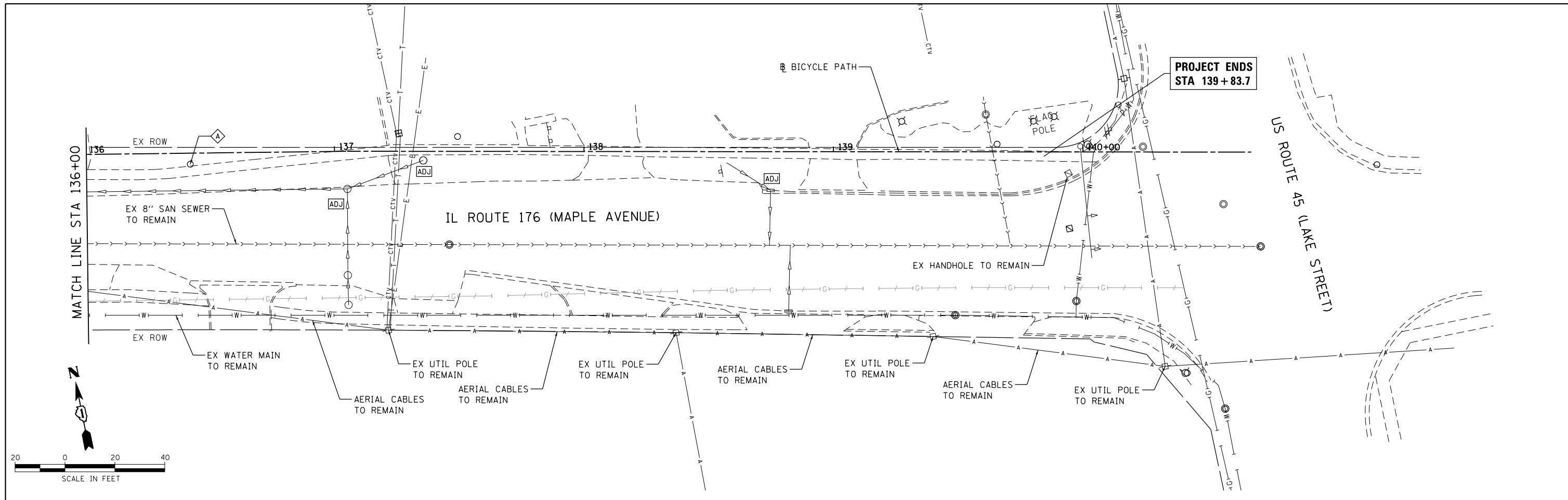
USER NAME = dstencz	DESIGNED - JCH	REVISED -
FILE NAME = 033-sht-drainrem03.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY REMOVAL PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH

SCALE: 1"=20' SHEET NO. 3 OF 4 SHEETS STA. 124+00.00 TO STA. 136+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	30
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

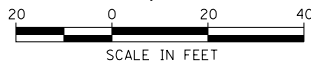


**PROJECT ENDS
STA 139 + 83.7**

US ROUTE 45 (LAKE STREET)

IL ROUTE 176 (MAPLE AVENUE)

MATCH LINE STA 136+00



LEGEND:

[ADJ]	STRUCTURE TO BE ADJUSTED WITH NEW CHIMNEY SEAL	~~~~~	PIPE CULVERT REMOVAL
[REC]	STRUCTURE TO BE RECONSTRUCTED WITH NEW CHIMNEY SEAL		STORM SEWER REMOVAL
[R]	STRUCTURE TO BE REMOVED		SANITARY SEWER REMOVAL
			WATER MAIN REMOVAL
		— W —	ABANDON WATER MAIN

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECTCONTACT#
 DATE PLOTTED: 5/25/2018 12:03:54 PM
 FILE NAME: 033-sht-drainrem04.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plotlabel.tbl



USER NAME = dstencz	DESIGNED - JCH	REVISED -
FILE NAME = 033-sht-drainrem04.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=20'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE & UTILITY REMOVAL PLAN
IL 176 (W MAPLE AVE) BICYCLE PATH**

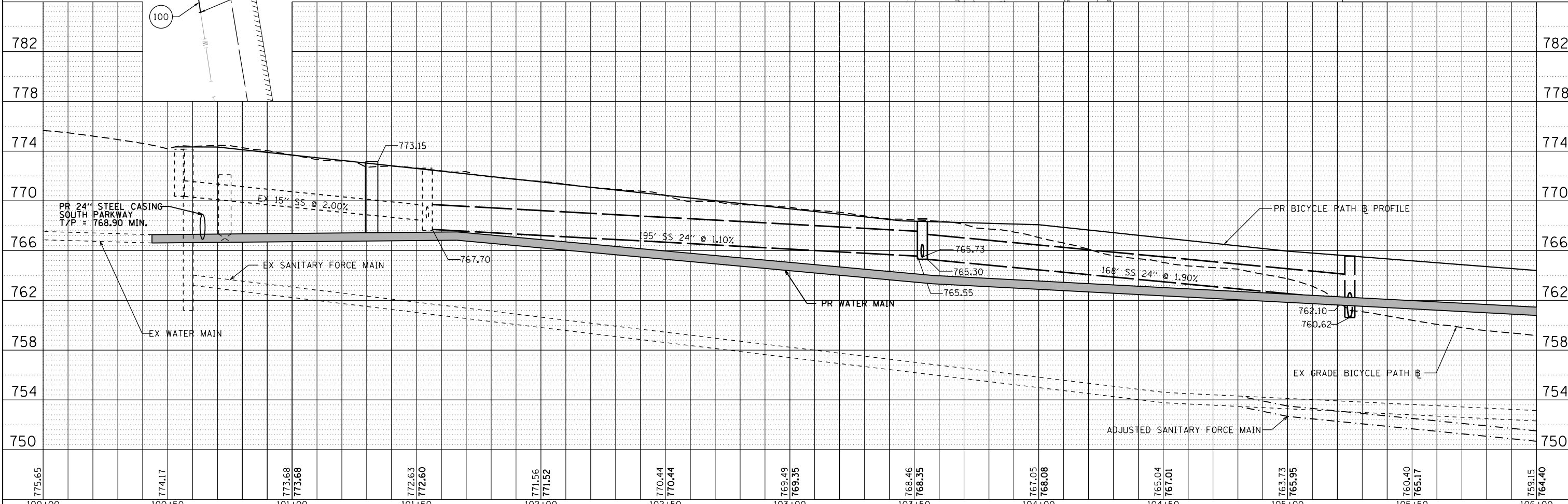
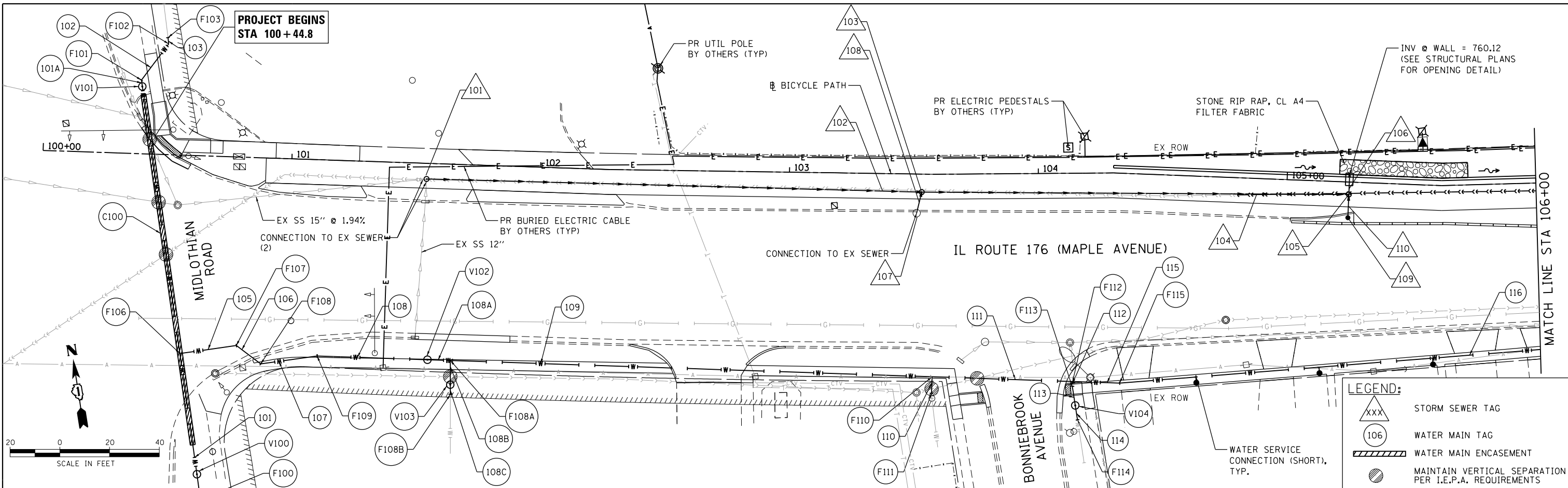
SCALE: 1"=20' SHEET NO. 4 OF 4 SHEETS STA. 136+00.00 TO STA. 140+05.20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	31
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E17	

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	NOTE BOOK
	NO. _____
	CARD FILE NAME
	NO. _____

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

HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 023-srt-arad@hradep.com
 FILE NAME: 170033-15-00101-00-BT.dwg
 PEN TABLE: pen.tbl



LEGEND:

XXX	STORM SEWER TAG
106	WATER MAIN TAG
▨	WATER MAIN ENCASUREMENT
●	MAINTAIN VERTICAL SEPARATION PER I.E.P.A. REQUIREMENTS

775.65	774.17	773.68	773.68	772.63	772.60	771.56	771.52	770.44	770.44	769.49	769.35	768.46	768.35	767.05	768.08	765.04	767.01	763.73	765.95	760.40	765.17	759.15	764.40	
100+00	100+50	101+00	101+50	102+00	102+50	103+00	103+50	104+00	104+50	105+00	105+50	106+00												

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USER NAME = dstencz	DESIGNED - JCH	REVISED -
	DRAWN - DMS	REVISED -
	CHECKED - JJS	REVISED -
	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

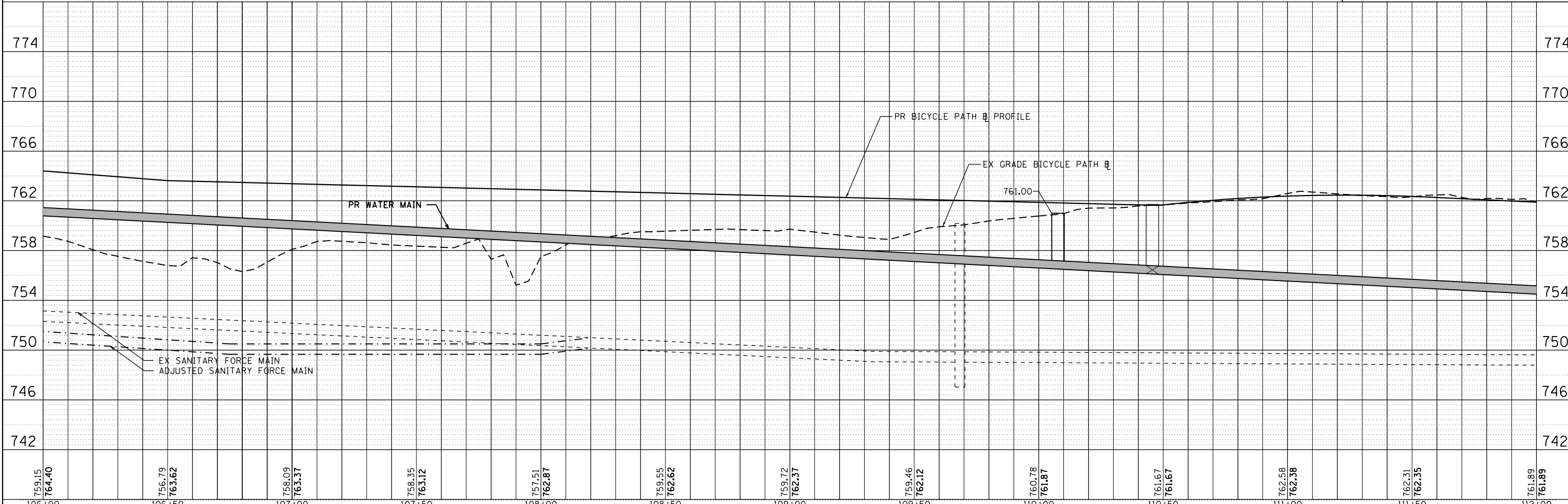
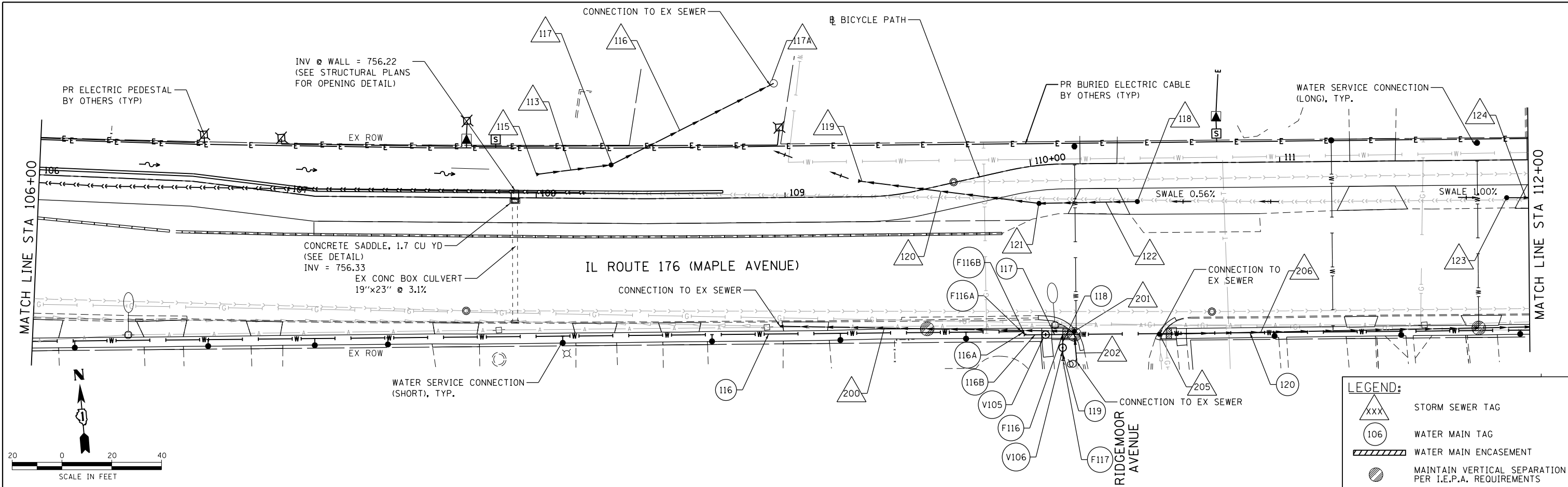
DRAINAGE & UTILITY PLAN AND PROFILE
IL 176 (W MAPLE AVE) BICYCLE PATH
 SCALE: 1"=20' SHEET NO. 1 OF 7 SHEETS STA. 100+44.80 TO STA. 106+00.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	32
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61E17		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO.	

HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 023-srt-dra/02.dgn
 FILE NAME: 170033.dwg
 PEN TABLE: pen.tbl



759.15 764.40	756.79 763.62	758.09 763.37	758.35 763.12	757.51 762.87	759.55 762.62	759.72 762.37	759.46 762.12	760.78 761.87	761.67 761.67	762.58 762.38	762.31 762.35	761.89 761.89
106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00

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USER NAME = dstencz	DESIGNED - JCH	REVISED -
	DRAWN - DMS	REVISED -
	CHECKED - JJS	REVISED -
	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

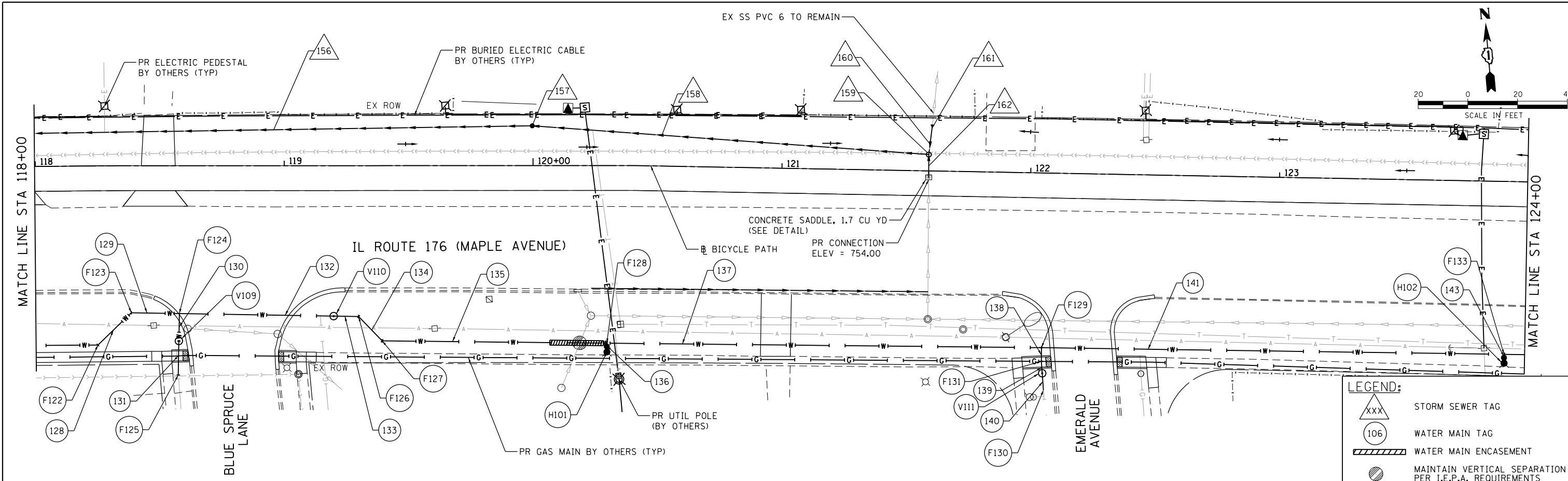
DRAINAGE & UTILITY PLAN AND PROFILE		
IL 176 (W MAPLE AVE) BICYCLE PATH		
SCALE: 1"=20'	SHEET NO. 2 OF 7 SHEETS	STA. 106+00.00 TO STA. 112+00.00

F.A.U. R.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	33
CONTRACT NO. 61E17			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

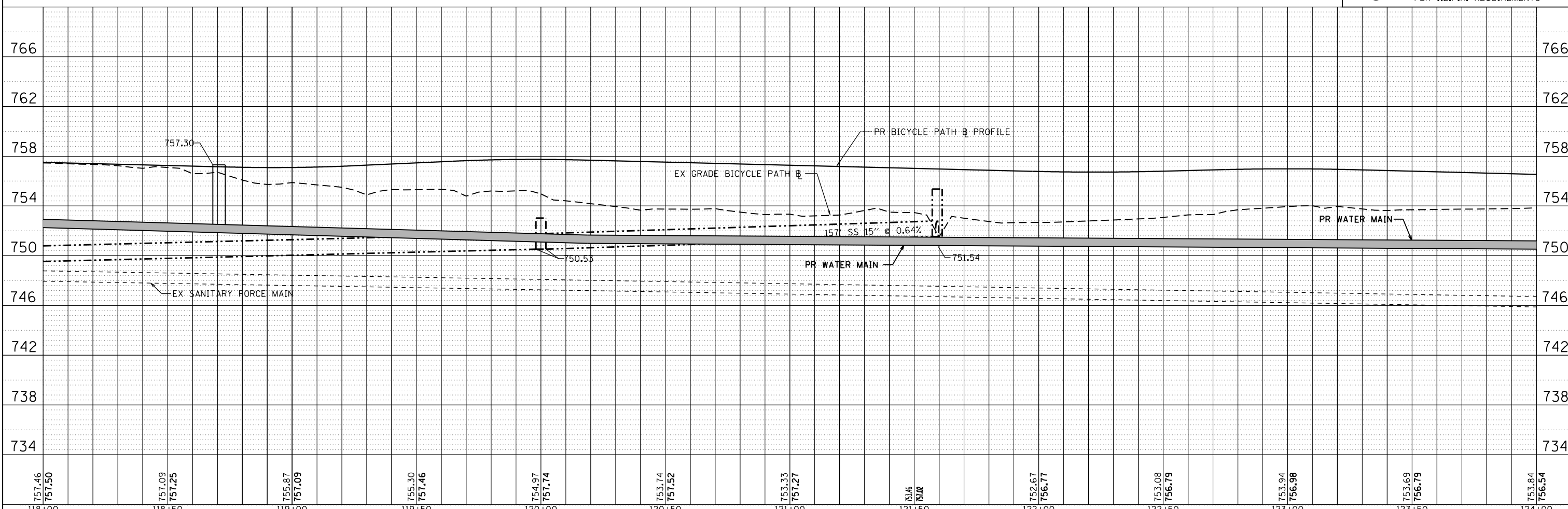
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHORD	
	NO.	

HRG PROJECT NO.: 170033
 HRG PROJ CONTACT: 023-srt-drain04.dgn
 FILE NAME: 170033.dwg
 PEN TABLE: p04tbl04.tbl



LEGEND:

△xxx	STORM SEWER TAG
○106	WATER MAIN TAG
▨	WATER MAIN ENCASUREMENT
⊙	MAINTAIN VERTICAL SEPARATION PER I.E.P.A. REQUIREMENTS



757.46	757.50	757.09	757.25	755.87	757.09	755.30	757.46	754.97	757.74	753.74	757.52	753.33	757.27	753.46	757.02	752.67	756.77	753.08	756.79	753.94	756.98	753.69	756.79	753.84	756.54	
118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00														

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 Illinois Professional Design Firm
 #184-001322

USER NAME = dstencz	DESIGNED - JCH	REVISED -
DRAWN - DMS	REVISOR -	
CHECKED - JJS	REVISOR -	
DATE - 5/25/18	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

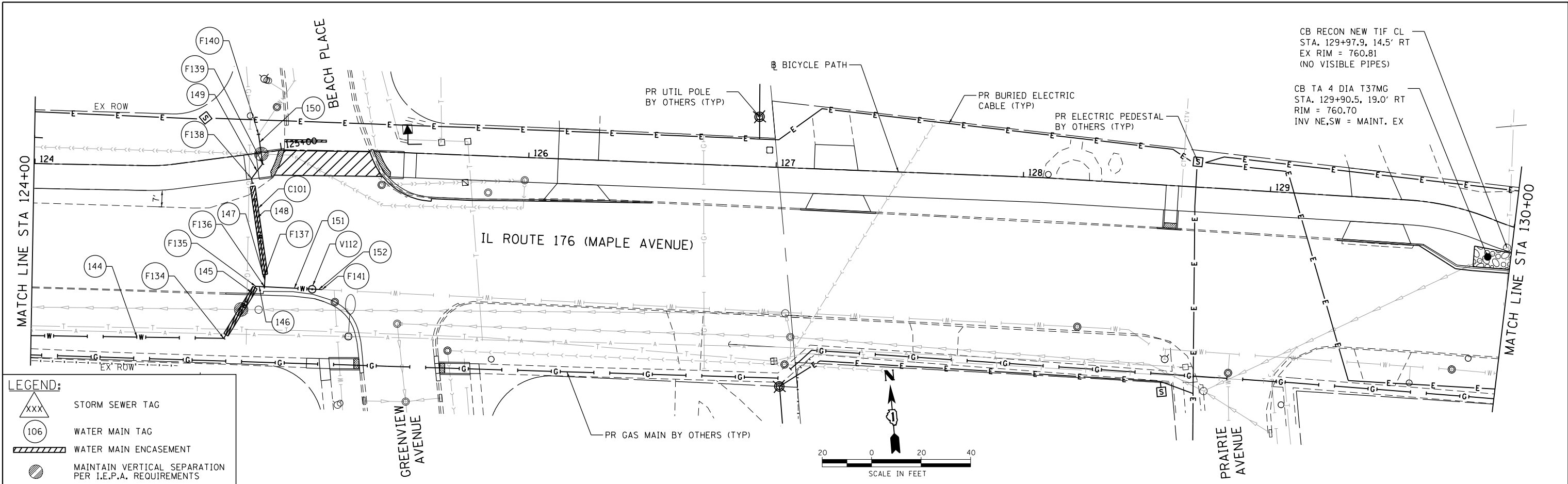
DRAINAGE & UTILITY PLAN AND PROFILE
IL 176 (W MAPLE AVE) BICYCLE PATH
 SCALE: 1"=20' SHEET NO. 4 OF 7 SHEETS STA. 118+00.00 TO STA. 124+00.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	35
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO. 1	

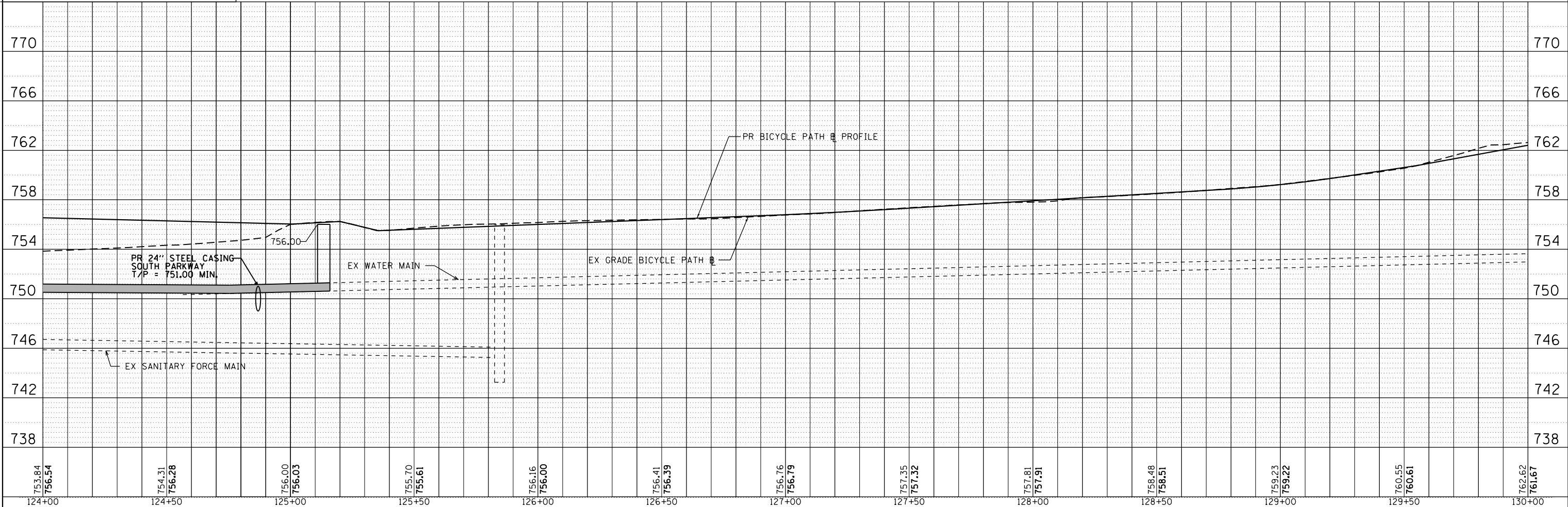
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. 1	

HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 023-srt-arajm05.dgn
 FILE NAME: 170033.dwg
 PEN TABLE: ptable.tbl



LEGEND:

- △xxx STORM SEWER TAG
- 106 WATER MAIN TAG
- ▨ WATER MAIN ENCASMENT
- MAINTAIN VERTICAL SEPARATION PER I.E.P.A. REQUIREMENTS



124+00	124+50	125+00	125+50	126+00	126+50	127+00	127+50	128+00	128+50	129+00	129+50	130+00
753.84 756.54	754.31 756.28	756.00 756.03	755.70 755.61	756.16 756.00	756.41 756.39	756.76 756.79	757.35 757.32	757.81 757.91	758.48 758.51	759.23 759.22	760.55 760.61	762.62 761.67

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USER NAME = dstencz	DESIGNED - JCH	REVISED -
	DRAWN - DMS	REVISED -
	CHECKED - JJS	REVISED -
	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRAINAGE & UTILITY PLAN AND PROFILE
IL 176 (W MAPLE AVE) BICYCLE PATH
 SCALE: 1"=20' SHEET NO. 5 OF 7 SHEETS STA. 124+00.00 TO STA. 130+00.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	36
CONTRACT NO. 61E17			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

WATER MAIN REMOVAL AND ADJUSTMENT SCHEDULE

LOCATION					FIRE HYDRANTS TO BE REMOVED	VALVE VAULTS TO BE ADJUSTED	REMOVE EXISTING WATER VALVE	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	CUT AND CAP EXISTING 4" WATER MAIN	CUT AND CAP EXISTING 8" WATER MAIN	CUT AND CAP EXISTING 12" WATER MAIN	WATER MAIN REMOVAL	WATER MAIN REMOVAL	WATER MAIN REMOVAL	WATER MAIN REMOVAL	WATER SERVICE CONNECTION (SHORT)	WATER SERVICE CONNECTION (LONG)
BEGIN STATION	BEGIN OFFSET (LT "RT "+") (FOOT)	END STATION	END OFFSET (LT "RT "+") (FOOT)	STREET ADDRESS	56400500 (EACH)	60265700 (EACH)	X0323449 (EACH)	X5610651 (FOOT)	X5630004 (EACH)	X5630008 (EACH)	X5630012 (EACH)	4" X5610704 (FOOT)	6" X5610706 (FOOT)	8" X5610708 (FOOT)	12" X5610712 (FOOT)	X5620116 (EACH)	X5620118 (EACH)
MAPLE AVE																	
100+67.9	138.20	100+64.9	73.90												77.0		
101+56.9	71.50	101+75.3	71.30											18.5			
101+66.1	71.20	101+66.8	92.55									21.5					
103+57.4	76.60	103+57.6	88.00									11.0					
104+13.4	79.80	104+15.0	99.10											19.5			
110+09.8	66.00	110+08.0	78.80											13.0			
113+55.6	90.84	113+60.3	90.60											5.0			
113+52.5	64.21	113+56.3	96.80											33.0			
113+46.6	82.10	113+53.6	80.70										7.5				
115+17.9	72.70	116+00.0	71.00											82.0			
118+53.7	69.10	118+61.7	69.00											8.0			
118+56.3	69.00	118+57.4	84.10											15.0			
122+06.1	64.20	122+06.7	87.30											23.0			
124+66.1	73.50	125+17.5	56.20												53.0		
124+91.6	-7.50	124+91.5	9.60											17.0			
100+48.6	-47.00	101+56.9	71.50					212.0									
101+75.3	71.30	113+52.5	61.30					1193.0									
110+10.4	60.80	110+09.7	66.50					6.0									
113+52.5	64.20	113+52.6	-3.40					65.0									
113+60.3	90.60	115+17.9	72.70					157.0									
116+01.1	71.00	118+53.7	69.10					252.0									
118+61.7	69.00	124+66.1	73.50					614.0									
100+48.6	-47.00								1								
100+68.0	138.20									1							
101+66.8	92.60							1									
103+57.6	87.98							1									
104+15.0	99.10								1								
110+08.0	78.80								1								
113+56.3	96.80								1								
113+60.3	90.60								1								
118+57.4	84.10								1								
122+06.7	87.30								1								
124+91.6	7.50								1								
125+17.5	56.20									1							
125+22.7	61.00					1											
100+58.3	14.70						1										
100+64.9	73.90						1										
101+66.1	71.20						1										
103+57.6	90.00					1											
104+14.3	94.30						1										
104+25.2	79.70						1										
110+08.2	75.30						1										
110+61.4	66.80						1										
113+52.5	75.50						1										
113+55.6	90.80						1										
116+73.8	69.50						1										
118+56.9	77.80						1										
121+73.9	63.40						1										
122+06.4	83.70						1										
124+69.6	69.30						1										
104+66.7	83.00			933												1	
105+16.0	77.19			927												1	
105+61.5	71.93			921												1	
106+17.1	68.75			915												1	
106+75.8	64.94			869												1	
107+11.5	59.82			863												1	
107+40.9	59.24			857												1	
108+11.1	58.09			851												1	
108+70.2	57.49			845												1	
109+21.7	57.44			839												1	
109+59.5	62.22			666												1	
110+17.6	-7.00			792													1
110+97.3	69.84			667												1	
111+20.8	-8.52			776													1
111+48.2	69.85			751												1	
111+79.3	-7.00			764													1
111+96.0	69.90			745												1	
112+37.7	-7.00			742													1
112+53.6	69.69			739												1	
113+16.4	-7.00			728													1
113+45.7	82.20						1										

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm
 DATE PLOTTED: 5/25/2018 12:04:37 PM
 FILE NAME: 033-sht-drain-sched01.dgn
 PLOT DRIVER: ILpdf.bwafire9
 PEN TABLE: plotlabel.tbl

 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = dstencz	DESIGNED - JCH	REVISED -
FILE NAME = 033-sht-drain-sched01.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WATER MAIN REMOVAL & ADJUSTMENT SCHEDULE
 IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: N.T.S. SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE. 1238	SECTION 15-00101-00-BT	COUNTY LAKE	TOTAL SHEETS 87	SHEET NO. 39
CONTRACT NO. 61E17			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

WATER MAIN REMOVAL AND ADJUSTMENT SCHEDULE CONTINUED

LOCATION					FIRE HYDRANTS TO BE REMOVED	VALVE VAULTS TO BE ADJUSTED	REMOVE EXISTING WATER VALVE	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	CUT AND CAP EXISTING 4" WATER MAIN	CUT AND CAP EXISTING 8" WATER MAIN	CUT AND CAP EXISTING 12" WATER MAIN	WATER MAIN REMOVAL	WATER MAIN REMOVAL	WATER MAIN REMOVAL	WATER MAIN REMOVAL	WATER SERVICE CONNECTION (SHORT)	WATER SERVICE CONNECTION (LONG)
BEGIN STATION	BEGIN OFFSET (LT "-" RT "+") (FOOT)	END STATION	END OFFSET (LT "-" RT "+") (FOOT)	STREET ADDRESS	56400500 (EACH)	60265700 (EACH)	X0323449 (EACH)	X5610651 (FOOT)	X5630004 (EACH)	X5630008 (EACH)	X5630012 (EACH)	4" X5610704 (FOOT)	6" X5610706 (FOOT)	8" X5610708 (FOOT)	12" X5610712 (FOOT)	X5620116 (EACH)	X5620118 (EACH)
MAPLE AVE																	
116+30.4	68.00				1												
TOTAL					2	2	14	2,499.0	2	8	2	32.5	7.5	234.0	130.0	15	5

WATER MAIN CONFLICT SCHEDULE

LOCATION			CONFLICT TYPE	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	CLEARANCE (FOOT)	MITIGATION
WM PIPE NUMBER	STATION	OFFSET (+ RT, - LT)					
101	100+50.7	40.10	HORIZONTAL CROSSING	763.85	766.73	2.88	WATER MAIN ENCASEMENT FOR ROADWAY CROSSING. WM ABOVE SAN FM.
101	100+47.0	19.20	HORIZONTAL CROSSING	768.90	770.25	1.35	WATER MAIN ENCASEMENT FOR ROADWAY CROSSING. WM BELOW STORM SEWER.
101	100+42.7	-5.90	HORIZONTAL CROSSING	768.90	770.62	1.72	WATER MAIN ENCASEMENT FOR ROADWAY CROSSING. WM BELOW STORM SEWER.
108B	101+66.5	85.30	HORIZONTAL CROSSING	763.72	767.00	3.28	NONE. WATER MAIN CROSSES OVER SANITARY SEWER BY 3.28'.
110	103+57.6	86.30	HORIZONTAL CROSSING	760.15	763.00	2.85	NONE. WATER MAIN CROSSES OVER SANITARY SEWER BY 2.85'.
111	103+74.8	82.10	HORIZONTAL CROSSING	759.79	762.30	2.51	NONE. WATER MAIN CROSSES OVER SANITARY SEWER BY 2.51'.
116	109+48.0	55.20	LESS THAN 10' HORIZONTAL SEPERATION	757.30	758.58	1.28	STORM SEWER ABOVE WATER MAIN. STORM SEWER (WATER MAIN REQUIREMENTS).
120	110+16.9	68.40	HORIZONTAL CROSSING	756.60	759.00	2.40	STORM SEWER ABOVE WATER MAIN. STORM SEWER (WATER MAIN REQUIREMENTS).
120	111+80.0	68.40	LESS THAN 10' HORIZONTAL SEPERATION	756.10	757.53	1.43	STORM SEWER ABOVE WATER MAIN. STORM SEWER (WATER MAIN REQUIREMENTS).
121	113+56.2	72.20	HORIZONTAL CROSSING	753.50	754.00	0.50	SANITARY SEWER ABOVE WATER MAIN. WATER MAIN ENCASEMENT.
124	113+58.1	83.40	HORIZONTAL CROSSING	753.50	753.83	0.33	SANITARY SEWER ABOVE WATER MAIN. WATER MAIN ENCASEMENT.
127	115+26.8	72.20	HORIZONTAL CROSSING	754.50	755.49	0.99	NONE. WATER MAIN CROSSES OVER GASKETED DUCTILE IRON 6" STORM SEWER.
135	120+18.8	71.30	HORIZONTAL CROSSING	751.65	753.60	1.95	STORM SEWER ABOVE WATER MAIN. WATER MAIN ENCASEMENT.
145	124+75.7	61.70	HORIZONTAL CROSSING	750.80	752.33	1.53	STORM SEWER ABOVE WATER MAIN. WATER MAIN ENCASEMENT.
150	124+91.7	0.50	HORIZONTAL CROSSING	747.90	749.54	1.64	NONE. WATER MAIN CROSSES OVER SANITARY SEWER BY 1.64'.

PROPOSED WATER MAIN SCHEDULE

LOCATION						TRENCH BACKFILL	WATER SERVICE LINE	WATER MAIN (PVC SDR 18)				WATER MAIN ENCASEMENT	STEEL CASINGS BORED & JACKED ENCASEMENT	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	CONNECTION TO EXISTING WATER MAIN	CONNECTION TO EXISTING WATER MAIN	CONNECTION TO EXISTING WATER MAIN
WATER MAIN TAG	BEGIN STATION	BEGIN OFFSET (LT "-" RT "+") (FOOT)	END STATION	END OFFSET (LT "-" RT "+") (FOOT)	RIM / BURY LINE ELEVATION	20800150 (CU YD)	4" 56201120 (FOOT)	6" 56100600 (FOOT)	8" 56100700 (FOOT)	12" 56100900 (FOOT)	X0327747 (FOOT)	24" X0327367 (FOOT)	56400820 (EACH)	4" X5630704 (EACH)	8" X5630708 (EACH)	12" X5630712 (EACH)	
MAPLE AVE																	
100	100+67.9	138.20	100+66.1	127.90		8.6				10.0							
101	100+66.1	127.90	100+38.9	-27.00		36.0				157.5							
101A	100+38.9	-27.00	100+38.5	-29.50		3.5				4.0							
102	100+38.5	-29.50	100+49.0	-44.50		15.5				18.0							
103	100+49.0	-44.50	100+48.6	-47.00		2.5				3.0							
105	100+57.67	79.70	100+80.22	75.75		22.0				23.0							
106	100+80.22	75.75	100+90.27	82.80		12.0				12.5							
107	100+90.27	82.80	101+12.82	78.85		19.7				23.0							
108	101+12.82	78.85	101+57.14	78.85		38.1				44.5							
108A	101+57.14	78.85	101+66.32	78.85		7.8				9.0							
108B	101+66.32	78.85	101+66.65	88.55		8.6	10.0										
108C	101+66.65	88.55	101+66.78	92.55		3.5	4.0										
109	101+66.3	78.85	103+57.56	81.40		166.1				194.0							
110	103+57.56	81.38	103+57.56	87.98		6.0	7.0										
111	103+57.56	81.38	104+13.17	83.70		53.9				56.5							
112	104+13.17	83.70	104+13.07	86.08		2.5		3.0									
113	104+13.07	86.08	104+14.14	93.31		6.2		7.5									

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/25/2018 12:04:41 PM
 FILE NAME: 033-sht-drain-sched01.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plot.tbl

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

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FILE NAME = 033-sht-drain-sched01.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WATER MAIN REM & ADJ, CONFLICT & WATER MAIN SCHEDULE
 IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: N.T.S. SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	40
CONTRACT NO.			61E17	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROPOSED WATER MAIN SCHEDULE CONTINUED

WATER MAIN TAG	BEGIN STATION	LOCATION				RIM / BURY LINE ELEVATION	TRENCH BACKFILL	WATER SERVICE LINE 4" 56201120 (FOOT)	WATER MAIN (PVC SDR 18)			WATER MAIN ENCASEMENT X0327747 (FOOT)	STEEL CASINGS BORED & JACKED ENCASEMENT 24" X0327367 (FOOT)	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX 56400820 (EACH)	CONNECTION TO EXISTING WATER MAIN 4" X5630704 (EACH)	CONNECTION TO EXISTING WATER MAIN 8" X5630708 (EACH)	CONNECTION TO EXISTING WATER MAIN 12" X5630712 (EACH)
		BEGIN OFFSET (LT "-" RT "+") (FOOT)	END STATION	END OFFSET (LT "-" RT "+") (FOOT)					6" 56100600 (FOOT)	8" 56100700 (FOOT)	12" 56100900 (FOOT)						
MAPLE AVE																	
114	104+14.14	93.31	104+14.98	99.06		4.9			6.0								
115	104+13.17	83.70	104+35.90	84.30		16.3				19.0							
116	104+35.9	84.30	109+81.9	64.30		485.4				567.0							
116A	109+81.90	64.29	109+82.93	65.88		2.6				3.0							
116B	109+82.93	65.88	109+91.51	67.60		7.3				8.5							
117	109+91.51	67.60	110+09.43	68.44		6.0				7.0							
118	110+09.43	68.44	110+08.55	73.71		4.5			5.5								
119	110+08.55	73.71	110+07.98	78.77		4.1			5.0								
120	110+09.43	68.44	113+56.26	68.21		294.5				344.0		14.0					
121	113+56.26	68.21	113+56.27	83.35		14.3				15.0							
122	113+56.27	83.35	113+56.28	86.77		3.9				4.0							
123	113+56.28	86.77	113+56.29	96.83		9.6				10.0							
124	113+56.27	83.35	113+94.58	83.32		36.7				38.5	15.0						
125	113+94.58	83.32	115+17.89	72.23		104.9				122.5							
126	115+17.89	72.23	115+17.89	69.34		2.6		3.0									
127	115+17.89	72.23	118+24.55	71.99		262.8				307.0							
128	118+24.55	71.99	118+38.57	59.10		16.3				19.0							
129	118+38.57	59.10	118+57.86	59.43		16.7				19.5							
130	118+57.86	59.43	118+57.67	70.45		9.0			11.0								
131	118+57.67	70.45	118+57.44	84.13		11.5			14.0								
132	118+57.86	59.43	119+19.87	60.48		59.1				62.0							
133	119+19.87	60.48	119+29.87	60.65		8.6				10.0							
134	119+29.87	60.65	119+39.33	70.44		12.0				14.0							
135	119+39.33	70.44	120+29.60	71.41		77.1				90.0	22.0						
136	120+29.60	71.41	120+29.60	73.00		2.6		3.0									
137	120+29.60	71.41	122+05.57	70.23		149.8				175.0							
138	122+05.57	70.23	122+05.6	75.70		4.5			5.5								
139	122+05.62	75.70	122+06.06	80.51		4.1			5.0								
140	122+06.06	80.51	122+06.68	87.30		5.8			7.0								
141	122+05.57	70.23	123+91.44	69.51		159.3				186.0							
143	123+91.44	69.51	123+91.4	70.90		1.8		2.0									
144	123+91.44	69.51	124+67.05	72.35		73.7				86.0							
145	124+67.05	72.35	124+82.60	53.22		21.4				25.0	23.0						
146	124+82.60	53.22	124+86.03	53.84		3.4				3.5							
147	124+86.03	53.84	124+86.95	48.95		4.8				5.0							
148	124+86.95	48.95	124+86.56	9.77		0.0				39.0							
149	124+86.56	9.77	124+91.76	4.46		7.7				7.5							
150	124+91.76	4.46	124+91.64	-7.54		7.7				12.0							
151	124+86.03	53.84	125+13.46	56.08		7.5				19.5							
152	125+13.46	56.08	125+17.46	56.16		4.0				4.0							
C100	100+64.1	116.22	100+39.5	-23.80								143.0					
C101	124+86.95	48.95	124+86.59	12.97								36.0					
F100	100+67.9	138.20														1	
F103	100+48.6	-47.00															
F108B	101+66.78	92.55												1			
F111	103+57.56	87.98												1			
F114	104+14.98	99.06													1		
F117	110+07.98	78.77													1		
F120	113+56.3	96.80													1		
F125	118+57.44	84.13													1		
F130	122+06.68	87.30													1		
F140	124+91.6	-7.50													1		
F141	125+17.46	56.16														1	
H100	115+17.85	67.16				760.05							1				
H101	120+29.64	74.91				757.05							1				
H102	123+91.52	73.06				756.25							1				
TOTAL						2,341.3	21.0	8.0	69.5	2,777.5	74.0	179.0	3	2	7	2	

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT #
 DATE PLOTTED: 5/25/2018 12:04:45 PM
 FILE NAME: 033-sht-drain-sched01.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plot.tbl

 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = dstancez	DESIGNED - JCH	REVISED -
FILE NAME = 033-sht-drain-sched01.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED WATER MAIN SCHEDULE
 IL 176 (W MAPLE AVE) BICYCLE PATH**

SCALE: N.T.S. SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	41
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 61E17

PROPOSED WATER MAIN FITTING SCHEDULE

LOCATION						WATER VALVES	WATER VALVES	WATER VALVES	VALVE VAULTS TYPE 1 FRAME, CLOSED LID	D.I. WATER MAIN TEE	D.I. WATER MAIN TEE	D.I. WATER MAIN TEE	D.I. WATER MAIN TEE	WATER MAIN FITTINGS 8"	WATER MAIN FITTINGS 8"	WATER MAIN FITTINGS 12"	WATER MAIN FITTINGS 12"	WATER MAIN FITTINGS 12"	WATER MAIN REDUCER	NOTES
WATER MAIN TAG	BEGIN STATION	BEGIN OFFSET (LT "-" RT "+") (FOOT)	END STATION	END OFFSET (LT "-" RT "+") (FOOT)	RIM / BURY LINE ELEVATION	4" 56104800 (EACH)	8" 56105000 (EACH)	12" 56105200 (EACH)	5' DIAMETER 60248900 (EACH)	12" X 4" 56100045 (EACH)	12" X 6" 56100050 (EACH)	12" X 8" 56100055 (EACH)	12" X 12" 56100065 (EACH)	11.25 DEG BEND 56109400 (EACH)	45 DEG BEND 56109420 (EACH)	11.25 DEG FITTINGS 12" 56109404 (EACH)	45 DEG BEND 56109424 (EACH)	90 DEG BEND 56109438 (EACH)	12" X 8" 56101160 (EACH)	
MAPLE AVE																				
F101	100+38.5	-29.56																		
F102	100+49.0	-44.51																		
F103	100+48.6	-47.01																		
F106	100+57.67	79.70											1							
F107	100+80.22	75.75																		
F108	100+90.27	82.80																		
F108A	101+66.32	78.85								1										
F109	101+12.82	78.85																		
F110	103+57.56	81.38								1										
F112	104+13.17	83.70																		
F113	104+13.07	86.08												1						
F115	104+35.90	84.30																		
F116	110+09.43	68.44																		
F116A	109+81.90	64.29																		
F116B	109+82.93	65.88																		
F118	113+56.26	68.21																		
F119	113+56.27	83.35																		
F120	113+56.29	96.83																		
F121	115+17.89	72.23																		
F122	118+24.55	71.99																		
F123	118+38.57	59.10																		
F124	118+57.86	59.43																		
F126	119+29.87	60.65																		
F127	119+39.33	70.44																		
F128	120+29.60	71.41																		
F129	122+05.57	70.23																		
F131	122+05.62	75.73																		
F133	123+91.44	69.51																		
F134	124+67.05	72.35																		
F135	124+82.60	53.22																		
F136	124+86.03	53.84																		
F137	124+86.95	48.95																		
F138	124+86.56	9.77																		
F139	124+91.76	4.46																		
F140	124+91.64	-7.54																		
V100	100+66.1	127.97			774.40			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
V101	100+38.95	-27.00			775.50			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
V102	101+57.14	78.85			772.50			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
V103	101+66.65	88.55			773.25	1			1											RIM ELEV. TO MATCH ADJACENT GRADE
V104	104+14.14	93.31			769.25		1		1											RIM ELEV. TO MATCH ADJACENT GRADE
V105	109+91.51	67.60			762.70			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
V106	110+08.55	73.71			763.02		1		1											RIM ELEV. TO MATCH ADJACENT GRADE
V107	113+56.28	86.77			760.05			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
V108	113+94.58	83.32			760.50			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
V109	118+57.67	70.45			757.72		1		1											RIM ELEV. TO MATCH ADJACENT GRADE
V110	119+19.87	60.48			758.00			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
V111	122+06.06	80.51			755.80		1		1											RIM ELEV. TO MATCH ADJACENT GRADE
V112	125+13.46	56.08			755.95			1	1											RIM ELEV. TO MATCH ADJACENT GRADE
VERTICAL FITTING														3	3	3	3	3		
TOTAL						1	4	8	13	2	3	4	3	4	3	7	17	4	3	

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT #
 DATE PLOTTED: 5/25/2018 12:04:48 PM
 FILE NAME: 033-sht-drain-sched01.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plotlabel.tbl



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FILE NAME = 033-sht-drain-sched01.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED WATER MAIN FITTING SCHEDULE			
IL 176 (W MAPLE AVE) BICYCLE PATH			
SCALE: N.T.S.	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	42
CONTRACT NO.			61E17	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURES SCHEDULE

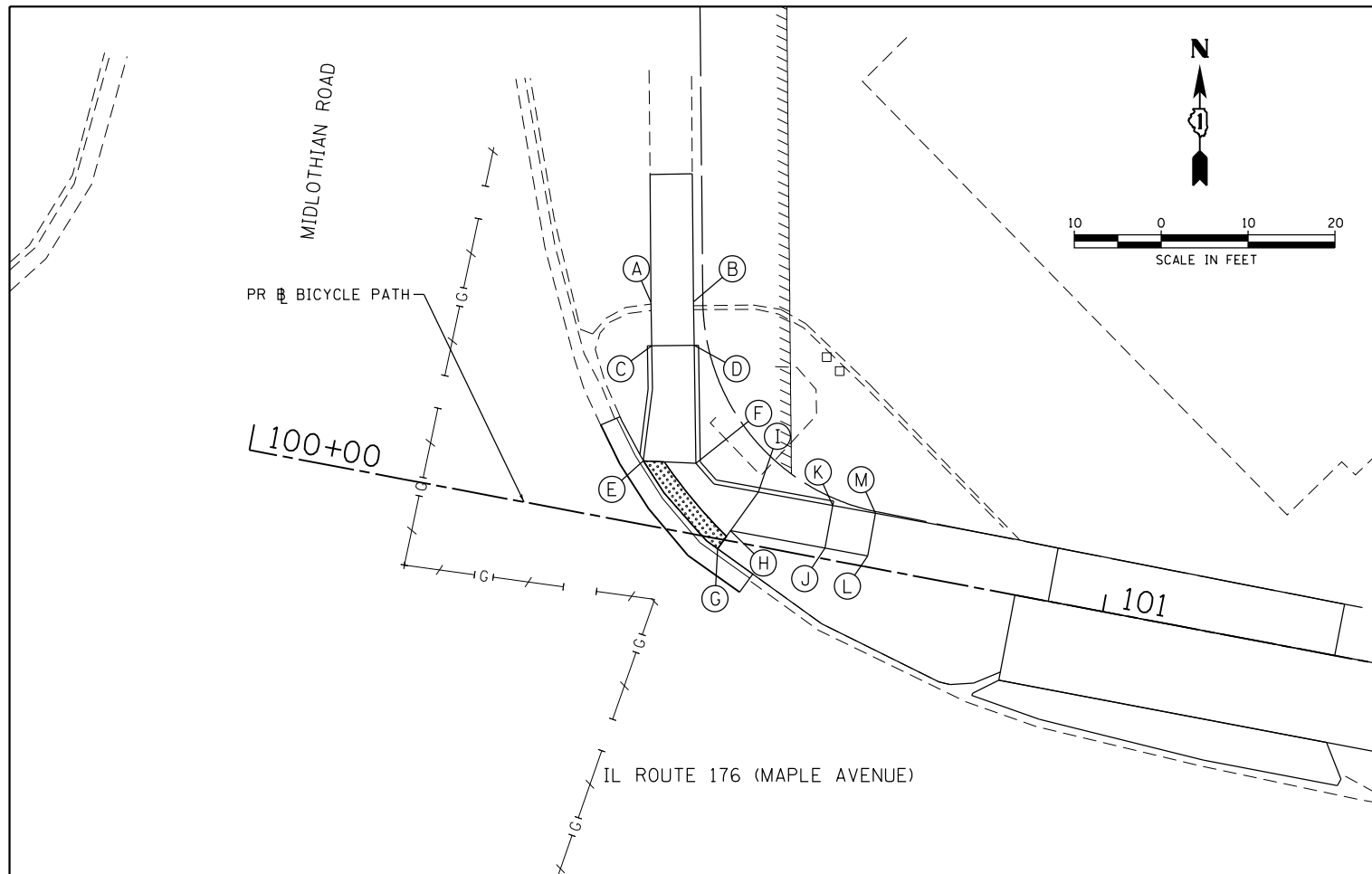
STR. ID	STATION	OFFSET	STRUCTURE TYPE	MANHOLES, CB & INLETS RIM EL.	STORM SEWER INVERTS				PAY ITEM NO.	NOTES
					NORTH	WEST	SOUTH	EAST		
MAPLE AVENUE										
101	101+54.0	6.30	MAN TA 6 DIA T1F CL	772.62		EX 768.42	EX 768.52	767.70	60223800	
103	103+53.0	7.20	MAN TA 4 DIA T1F CL	768.55		765.55	765.73	765.30	60218400	
105	105+25.0	5.00	MAN TA 5 DIA T1F CL	765.56	760.62	762.10	762.25		60221100	
107	103+51.0	15.70	EX CB	768.56	EX 766.06					NORTH INVERT ELEVATION TO MATCH EXISTING
109	105+25.0	14.30	CB TC T1F OL	765.00	762.50				60206905	
115	108+00.0	-9.40	PRC FLAR END SEC 24					754.00	54213669	
117	108+30.0	-13.50	CB TA 4 DIA T8G	756.75	753.75	753.75			60200805	STOOL TYPE 37M GRATE
117A	108+47.0	-17.30	EX MH	757.15	EX 750.05	EX 753.15				WEST INVERT ELEVATION TO MATCH EXISTING
118	110+43.0	15.40	CB TA 4 DIA T8G	760.86		758.60			60200805	STOOL TYPE 37M GRATE
119	109+32.0	-5.80	PRC FLAR END SEC 15			757.50			54213660	
121	110+00.0	15.50	CB TA 4 DIA T8G	760.44		757.82		757.82	60200805	STOOL TYPE 37M GRATE
123	111+91.0	15.10	CB TA 4 DIA T8G	760.54				758.54	60200805	STOOL TYPE 37M GRATE
127	112+61.2	15.90	CB TA 4 DIA T8G	759.50		757.78			60200805	STOOL TYPE 37M GRATE
129	113+13.0	16.20	CB TA 4 DIA T8G	759.40		757.54		757.54	60200805	STOOL TYPE 37M GRATE
131	113+49.7	15.90	PRC FLAR END SEC 15	757.42					54213660	
133	113+99.0	15.40	PRC FLAR END SEC 15	756.87					54213660	
135	114+25.0	15.60	PRC FLAR END SEC 15	756.13					54213660	
137	114+50.0	14.10	PRC FLAR END SEC 15	756.02					54213660	
139	115+04.2	-12.00	PRC FLAR END SEC 15	755.50					54213660	
141	115+27.0	-14.00	PRC FLAR END SEC 24	755.58					54213669	
151	115+48.0	-29.00	EX CB	753.08	EX 747.73			747.73		
153	115+62.0	-12.00	CB TA 4 DIA T8G	755.00		748.38		748.38	60200805	STOOL TYPE 37M GRATE
155	116+00.0	-12.00	CB TA 4 DIA T8G	755.28		748.55		748.55	60200805	STOOL TYPE 37M GRATE
157	120+00.0	-16.00	CB TA 4 DIA T8G	753.03		750.53		750.53	60200805	STOOL TYPE 37M GRATE
159	121+59.2	-6.60	MAN TA 4 DIA T1F CL	755.36	751.54	751.54	752.36		60218400	
161	121+60.5	-18.70	PRC FLAR END SEC 15	751.66					54213660	
170	129+90.5	19.00	CB TA 4 DIA T8G	706.62	MEET EX		MEET EX		60200805	STOOL TYPE 37M GRATE
171	129+97.9	14.50	CB RECON T1F CL						60253100	EX RIM = 760.81
201	110+16.8	67.30	CB TC T11F&G	762.09		EX 759.04	EX 759.14		60207905	WEST INVERT ELEVATION TO MATCH EXISTING
205	110+51.0	68.70	CB TA 4 DIA T11F&G	761.86		EX 758.46	EX 758.26		60201105	EAST INVERT ELEVATION TO MATCH EXISTING
207	113+43.7	65.50	CB RECON T11 F&G	759.58		EX 757.08	EX 756.98		60254100	WEST INVERT ELEVATION TO MATCH EXISTING

DRAINAGE PIPES SCHEDULE

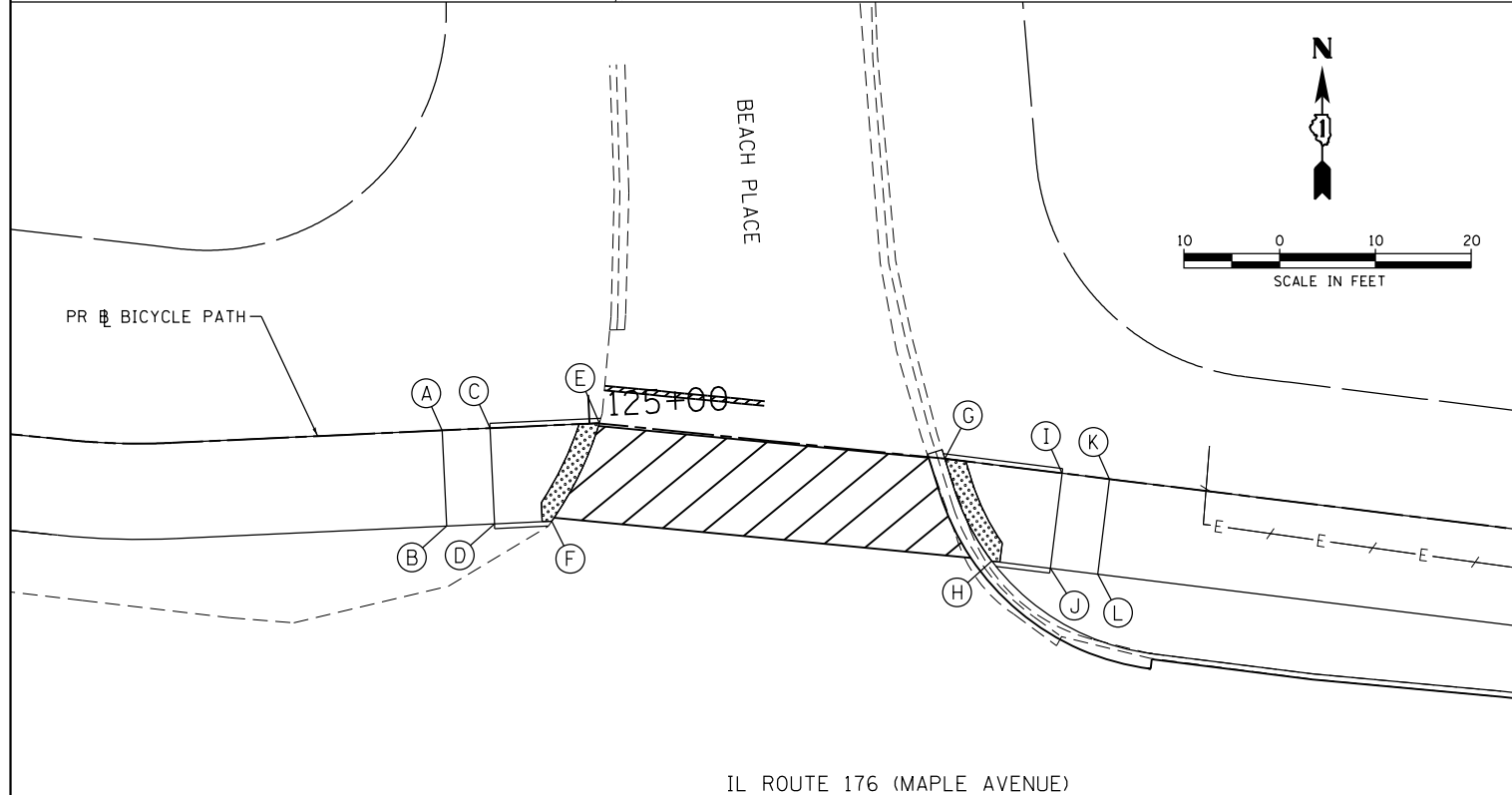
LOCATION			SLOPE (%)	TRENCH BACKFILL (CU YD)	STORM SEWERS CLASS A, TYPE 1			STORM SEWERS CLASS A, TYPE 2	STORM SEWERS WATER MAIN REQUIREMENTS	
ID NUMBER	UPSTREAM STRUCTURE ID NUMBER	DOWNSTREAM STRUCTURE ID NUMBER			12" (FOOT)	15" (FOOT)	24" (FOOT)	15" (FOOT)	12" (FOOT)	15" (FOOT)
MAPLE AVENUE				20800150	550A0050	550A0070	550A0120	550A0360	Z0056608	Z0056610
102	101	103	1.10%	51.5			195.0			
104	103	105	1.90%	29.4			168.0			
106	105	WALL	16.67%	1.3			3.0			
108	107	103	2.50%	1.1	6.0					
110	109	105	3.13%	1.4	8.0					
113	115	117	0.11%				23.0			
116	117	117A	0.87%				66.0			
120	121	119	0.49%	8.0		63.0				
122	118	121	2.17%	4.4		36.0				
124	123	127	1.15%	8.0		66.0				
128	127	129	0.50%	5.9		48.0				
130	129	131	0.37%	4.0		32.5				
134	133	135	3.29%	2.3		19.0				
138	137	139	1.02%	5.4		51.0				
140	EX	141	0.69%	3.1			17.5			
152	153	151	3.25%					20.0		
154	155	153	0.50%					35.0		
156	157	155	0.50%	10.4				397.0		
158	159	157	0.64%			157.0				
160	161	159	2.00%			6.0				
162	EX	159	20.50%	1.0			8.0			
200	201	EX	0.54%	42.0						118.0
202	EX	201	0.50%	3.0						12.0
206	205	207	0.40%	69.0						292.0
TOTAL				251.2	14.0	478.5	480.5	452.0	304.0	118.0

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/25/2018 12:04:52 PM
 FILE NAME: 033-sht-drain-sched01.dgn
 PLOT DRIVER: ilpdfwrt64
 PEN TABLE: plotlabel.tbl

	HRGreen.com <small>Illinois Professional Design Firm #184-001322</small>	USER NAME = dstencz FILE NAME = 033-sht-drain-sched01.dgn PLOT SCALE = N.T.S. PLOT DATE = 5/25/2018	DESIGNED - JCH DRAWN - DMS CHECKED - JJS DATE - 5/25/18	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE STRUCTURES & PIPES SCHEDULES IL 176 (W MAPLE AVE) BICYCLE PATH	SCALE: N.T.S. SHEET NO. 5 OF 5 SHEETS STA. TO STA.	F.A.U. RTE. 1238 SECTION 15-00101-00-BT COUNTY LAKE TOTAL SHEETS 87 SHEET NO. 43 CONTRACT NO. 61E17 <small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>
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POINT DESCRIPTION MIDLOTHIAN ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	100+42.3	25.3' LT			775.66	MEET EX
B	100+42.1	26.3' LT			775.67	MEET EX
C	100+43.3	20.4' LT	775.71		775.71	
D	100+48.1	21.4' LT	775.58		775.58	
E	100+44.8	7.2' LT		774.59	774.63	DT WARN
F	100+50.8	8.1' LT	775.00		774.86	
G	100+55.1	1.1' RT		774.27	774.31	DT WARN
H	100+56.2	1.2' LT			774.44	
I	100+58.5	6.2' LT	774.90		774.53	
J	100+67.2	1.3' LT			774.50	
K	100+67.2	6.2' LT	774.80		774.58	
L	100+72.2	1.3' LT			774.53	
M	100+72.2	6.3' LT			774.61	



POINT DESCRIPTION BEACH PLACE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	124+85.0	0.0' RT			756.12	
B	124+85.0	10.0' RT			756.30	
C	124+90.0	0.0' RT	756.37		756.12	
D	124+90.0	10.0' RT	756.50		756.30	
E	125+01.4	0.0' RT	756.30		756.05	DT WARN
F	124+96.0	10.0' RT	756.50		756.21	DT WARN
G	125+37.7	0.0' RT	755.60	755.56	755.44	DT WARN
H	125+43.8	10.0' RT	755.90	755.58	755.62	DT WARN
I	125+50.0	0.0' RT	755.64		755.64	
J	125+50.0	10.0' RT	755.72		755.72	
K	125+55.0	0.0' RT			755.72	
L	125+55.0	10.0' RT			755.81	

LEGEND

- (A) POINT
- [Hatched Box] DETECTABLE WARNINGS
- [Diagonal Lines Box] CURB DEPRESSION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: PROJECT CONTACTS
 DATE PLOTTED: 5/25/2018 12:04:57 PM
 FILE NAME: 033-sht-det-swamps-01.dgn
 PLOT DRIVER: IL.pdf, bw, a1, e, f, g
 PEN TABLE: plotlabel.tbl



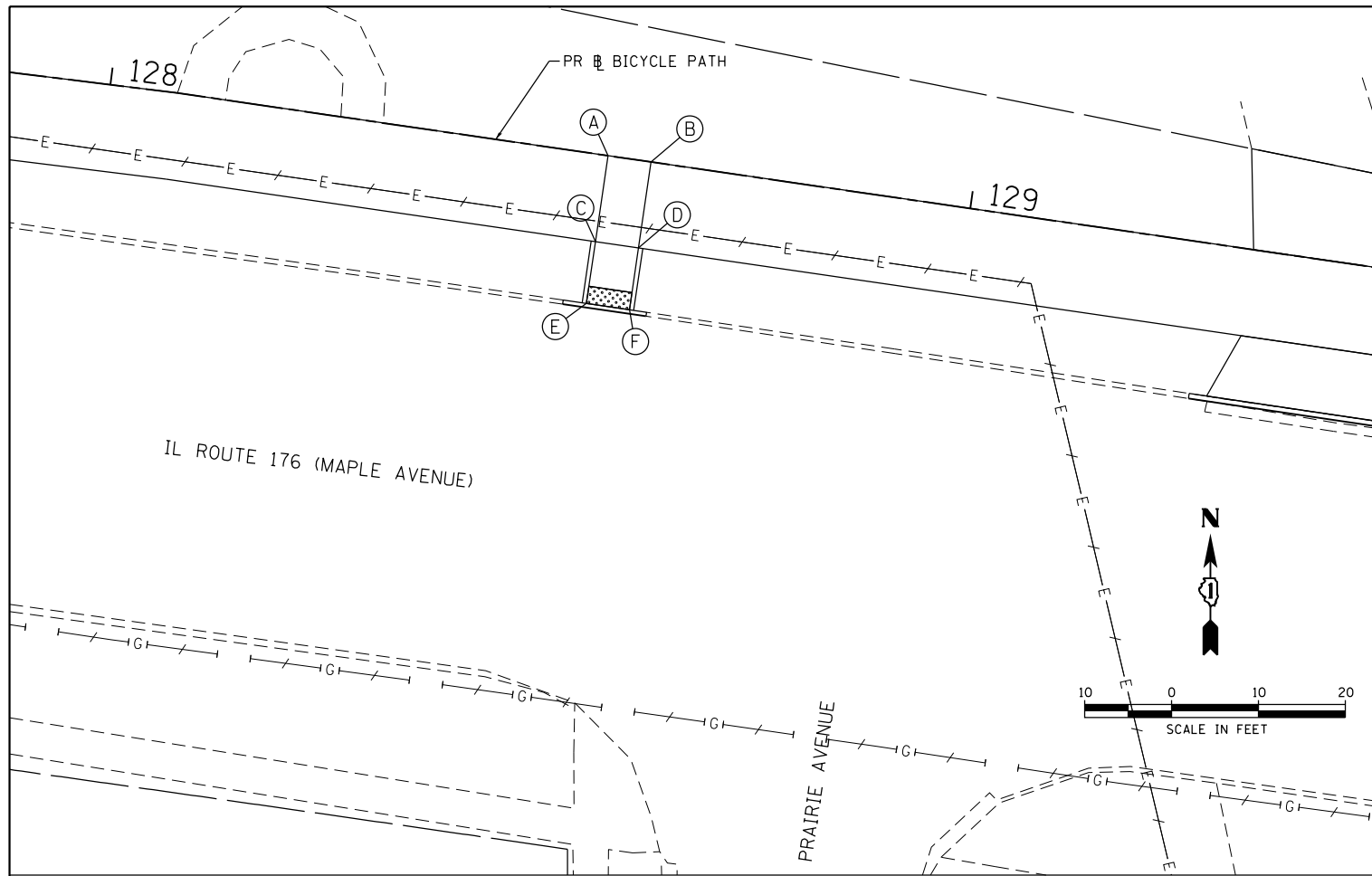
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FILE NAME = 033-sht-det-swamps-01.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=10'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

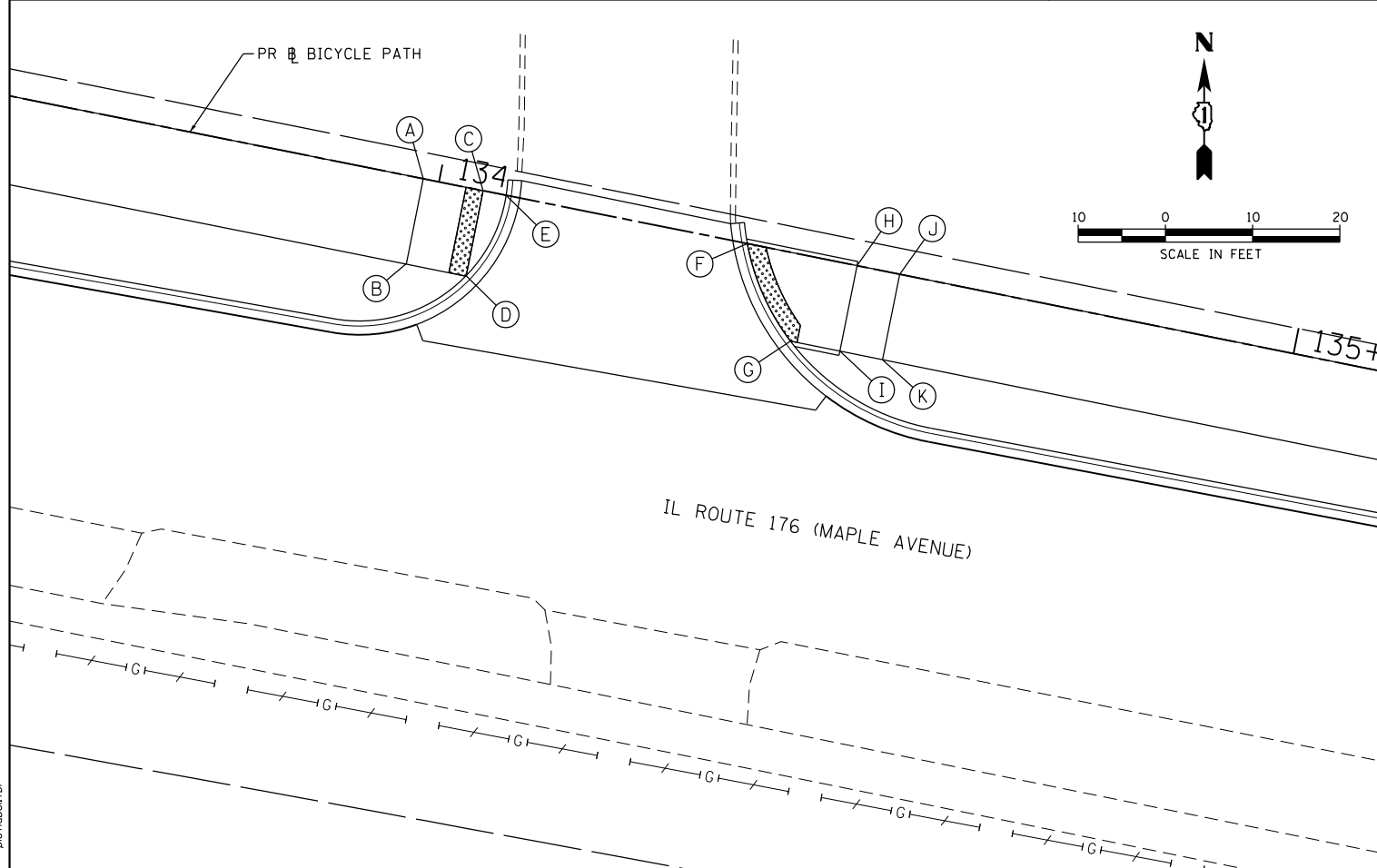
SCALE: 1"=10' SHEET NO. 1 OF 5 SHEETS STA. TO STA.

**SIDEWALK RAMP DETAILS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	44
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



POINT DESCRIPTION PRAIRIE AVENUE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	128+58.2	0.0' RT			758.67	HMA
B	128+63.2	0.0' RT			758.76	HMA
C	128+58.2	10.0' RT	758.48		758.48	
D	128+63.2	10.0' RT	758.57		758.57	
E	128+58.2	17.2' RT	758.41	756.86	757.90	DT WARN
F	128+63.2	17.2' RT	758.50	757.95	757.99	DT WARN



POINT DESCRIPTION ENTRANCE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	133+97.6	0.0' RT			767.48	
B	133+97.6	10.0' RT			767.66	
C	134+04.6	0.0' RT			767.55	DT WARN
D	134+04.6	10.0' RT		767.66	767.70	DT WARN
E	134+07.3	0.0' RT		767.50	767.54	
F	134+35.6	0.0' RT	767.90	767.60	767.64	DT WARN
G	134+42.6	10.0' RT	768.30	767.79	767.83	DT WARN
H	134+48.4	0.0' RT	768.20		768.01	
I	134+48.4	10.0' RT	768.40		768.16	
J	134+53.4	0.0' RT			768.04	
K	134+53.4	10.0' RT			768.22	

LEGEND

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

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: PROJECT CONTACTS
 DATE PLOTTED: 5/25/2018 12:05:02 PM
 FILE NAME: 033-sht-det-swamps-02.dgn
 PLOT DRIVER: IL.pdf, bw, a1, e1, f9
 PEN TABLE: plotabel.tbl



USER NAME = dstencz	DESIGNED - JCH	REVISED -
FILE NAME = 033-sht-det-swamps-02.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=10'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

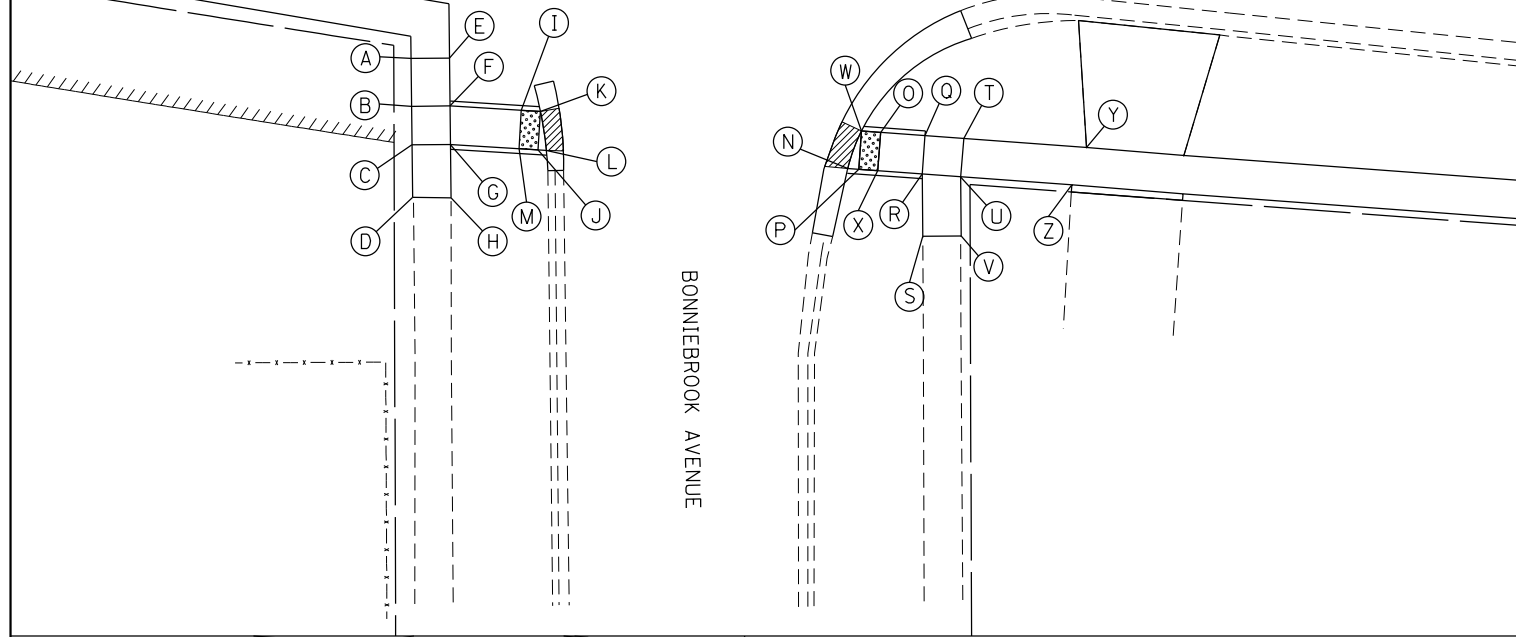
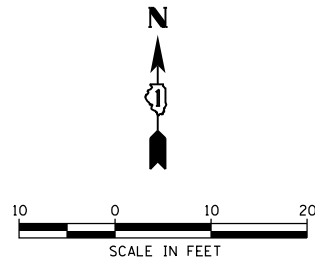
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'		SHEET NO. 2 OF 5 SHEETS		STA. TO STA.	
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SIDEWALK RAMP DETAILS
 IL 176 (W MAPLE AVE) BICYCLE PATH

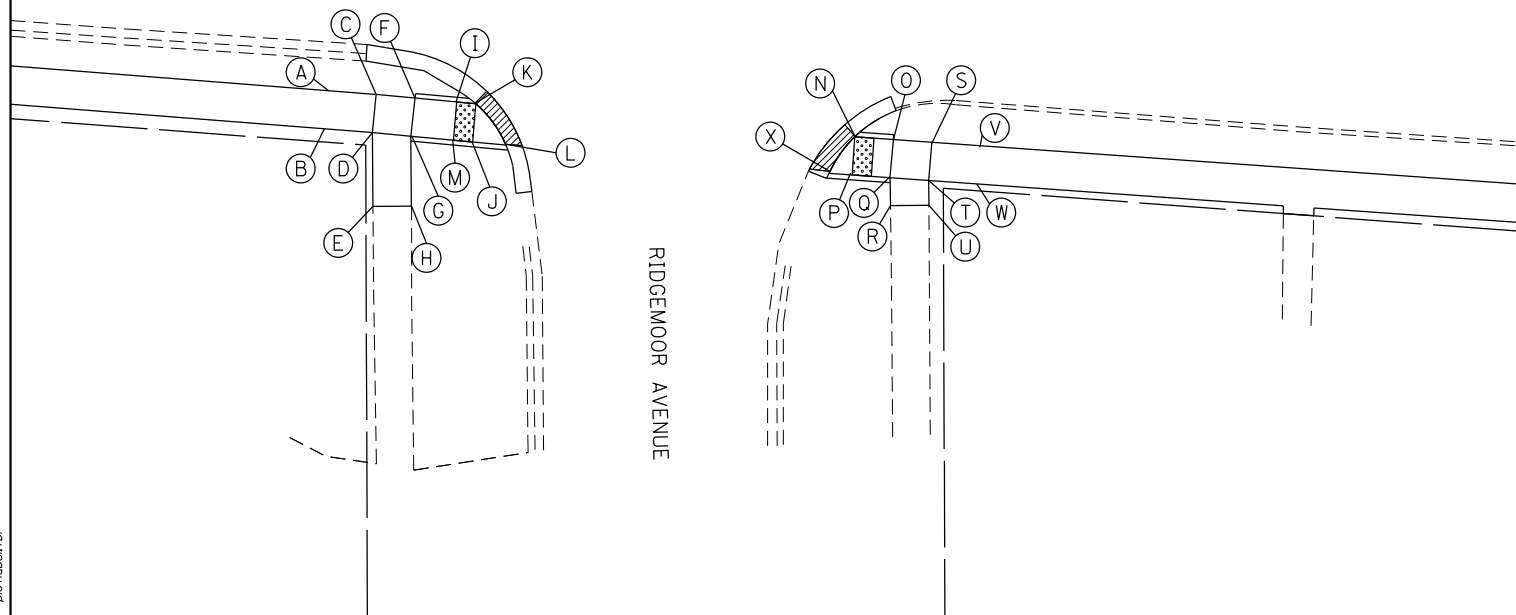
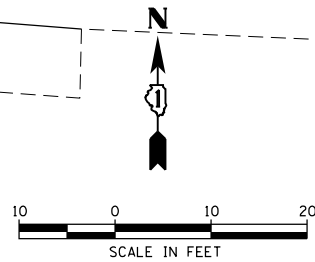
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	45
CONTRACT NO. 61E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

IL ROUTE 176 (MAPLE AVENUE)



POINT DESCRIPTION BONNIEBROOK AVENUE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	103+62.7	84.4' RT			769.04	
B	103+63.5	89.3' RT			769.36	
C	103+64.1	93.3' RT			769.42	
D	103+64.9	98.7' RT			769.79	
E	103+66.6	83.7' RT			768.98	
F	103+67.4	88.7' RT	769.30		769.30	
G	103+68.0	92.6' RT	769.36		769.36	
H	103+68.9	98.1' RT			769.73	
I	103+74.8	88.0' RT			768.75	DT WARN
J	103+77.2	91.8' RT			768.80	DT WARN
K	103+76.8	87.9' RT	769.10	768.56	768.60	DT WARN
L	103+78.0	91.8' RT	769.32	768.78	768.82	
M	103+75.2	92.0' RT			768.81	DT WARN
N	104+09.4	89.1' RT	768.7	768.61	768.65	DT WARN
O	104+12.2	84.9' RT			768.55	DT WARN
P	104+10.5	89.0' RT			768.62	DT WARN
Q	104+16.8	84.5' RT	768.80		768.80	
R	104+17.1	88.5' RT	768.86		768.86	
S	104+18.1	94.9' RT			769.26	
T	104+20.9	84.2' RT			768.86	
U	104+21.1	88.2' RT			768.92	
V	104+22.1	94.3' RT			769.34	
W	104+10.2	85.0' RT		768.04	768.44	DT WARN
X	104+12.9	88.9' RT			768.66	DT WARN
Y	104+37.5	83.0' RT			768.57	
Z	104+36.7	87.2' RT			768.63	

IL ROUTE 176 (MAPLE AVENUE)



POINT DESCRIPTION RIDGEMOOR AVENUE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	109+85.23	63.7' RT			762.82	
B	109+84.3	67.5' RT			762.88	
C	109+90.1	64.7' RT			762.75	
D	109+89.2	68.6' RT			762.81	
E	109+88.2	76.2' RT			763.73	
F	109+99.1	65.5' RT	762.69		762.69	
G	109+97.4	69.4' RT	767.75		762.75	
H	109+95.5	76.7' RT			763.52	
I	110+09.6	65.9' RT			762.34	
J	110+14.2	70.0' RT			762.27	DT WARN
K	110+14.2	66.0' RT	762.67	762.15	762.17	DT WARN
L	110+17.7	70.0' RT	762.76	762.22	762.26	
M	110+09.1	69.9' RT			762.40	DT WARN
N	110+53.9	66.5' RT		761.89	761.93	DT WARN
O	110+57.9	66.5' RT			762.26	
P	110+58.8	65.3' RT	762.58		762.08	DT WARN
Q	110+57.9	70.4' RT	762.06		762.06	
R	110+62	66.6' RT			762.52	
S	110+62.4	66.6' RT	762.32		762.32	
T	110+61.9	70.5' RT			762.38	
U	110+62.1	73.1' RT			762.58	
V	110+67	66.6' RT			762.20	
W	110+66.9	70.5' RT			762.26	
X	110+51.6	70.3' RT		761.94	761.98	

LEGEND

- (A) POINT
- [Cross-hatched pattern] DETECTABLE WARNINGS
- [Diagonal line pattern] CURB DEPRESSION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECTCONTACT#
 DATE PLOTTED: 5/25/2018 12:05:07 PM
 FILE NAME: 033-sht-det-sw-ramps-03.dgn
 PLOT DRIVER: IL.pdf,bw,dwf,efg
 PEN TABLE: plotlabel.tbl



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FILE NAME = 033-sht-det-sw-ramps-03.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=10'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'

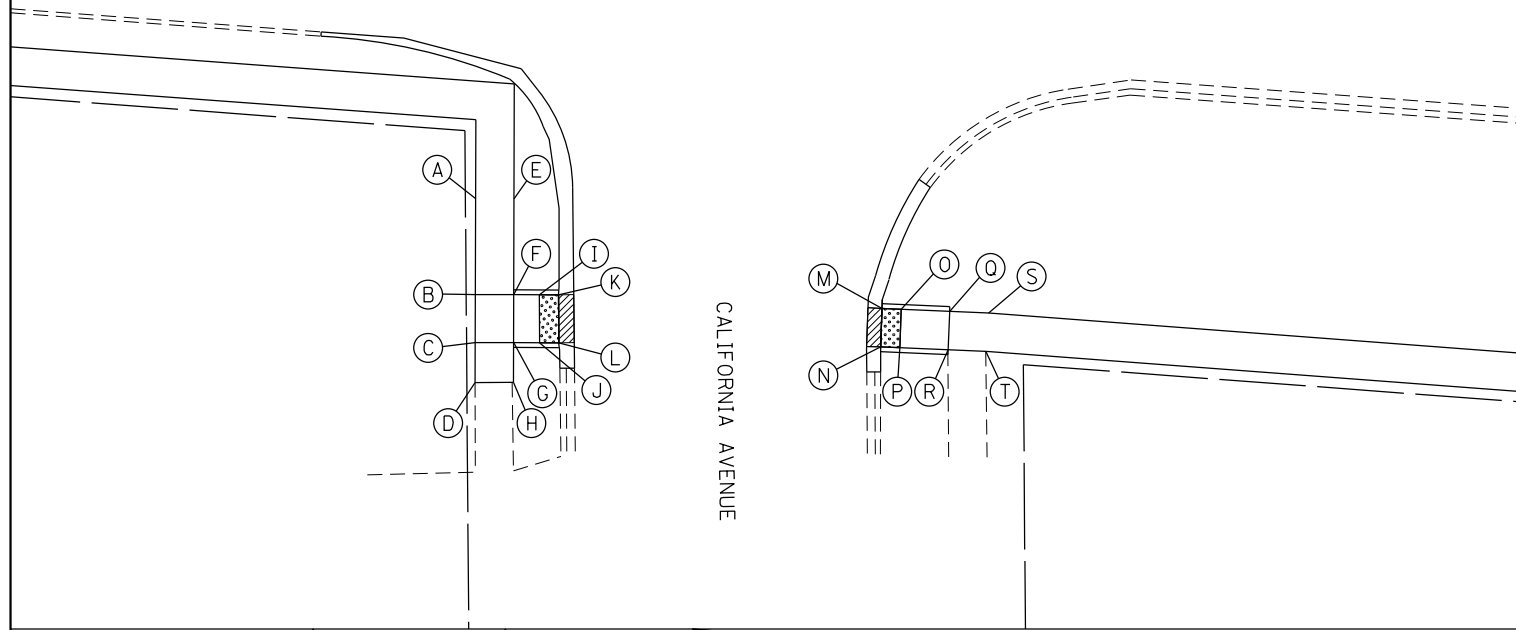
SHEET NO. 3 OF 5 SHEETS

STA. TO STA.

SIDEWALK RAMP DETAILS
 IL 176 (W MAPLE AVE) BICYCLE PATH

F.A.U. RTE. 1238	SECTION 15-00101-00-BT	COUNTY LAKE	TOTAL SHEETS 87	SHEET NO. 46
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 61E17				

IL ROUTE 176 (MAPLE AVENUE)

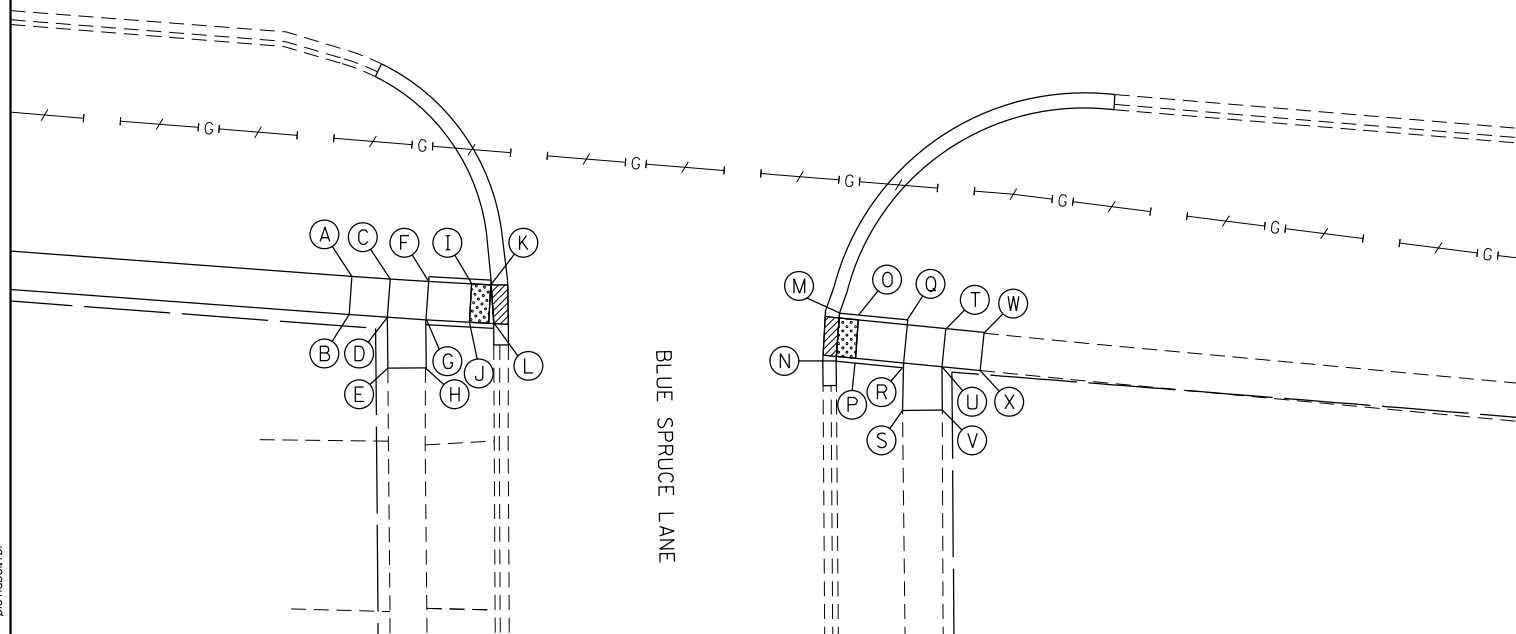
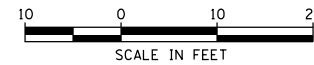


CALIFORNIA AVENUE

A
B
C
D
E
F
G
H
I
J
K
L

M
N
O
P
Q
R
S
T

IL ROUTE 176 (MAPLE AVENUE)



BLUE SPRUCE LANE

A
B
C
D
E
F
G
H
I
J
K
L

M
N
O
P
Q
R
S
T
U
V
W
X

POINT DESCRIPTION CALIFORNIA AVENUE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	113+39.6	78.0' RT			760.24	
B	113+40.3	88.0' RT			760.44	
C	113+40.7	93.0' RT			760.51	
D	113+41.0	97.1' RT			760.57	
E	113+43.6	77.4' RT			760.18	
F	113+44.3	87.7' RT	760.37		760.37	
G	113+44.7	92.7' RT	760.44		760.44	
H	113+45.0	96.8' RT			760.43	
I	113+47.0	87.5' RT			760.16	DT WARN
J	113+47.4	92.5' RT			760.24	DT WARN
K	113+49.0	87.4' RT	760.50	759.96	760.00	DT WARN
L	113+49.4	92.4' RT	760.58	760.04	760.08	DT WARN
M	113+82.7	86.3' RT	760.54	760.00	760.04	DT WARN
N	113+82.9	90.3' RT	760.55	760.01	760.05	DT WARN
O	113+84.7	86.2' RT			760.16	DT WARN
P	113+84.9	90.2' RT			760.19	DT WARN
Q	113+89.8	86.1' RT	760.47		760.47	
R	113+89.9	90.4' RT	760.53		760.53	
S	113+93.8	85.9' RT			760.53	
T	113+93.8	89.9' RT			760.61	

POINT DESCRIPTION BLUE SPRUCE LANE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	118+46.8	74.7' RT			758.42	
B	118+46.8	78.7' RT			758.51	
C	118+50.8	74.6' RT			758.23	
D	118+50.8	78.6' RT			758.29	
E	118+51.3	83.9' RT			758.38	
F	118+54.8	74.5' RT	758.16		758.16	
G	118+54.8	78.5' RT	758.23		758.23	
H	118+55.3	83.5' RT			758.24	
I	118+59.3	74.4' RT			757.79	DT WARN
J	118+59.4	78.4' RT			757.85	DT WARN
K	118+61.3	74.4' RT	758.13	757.59	757.63	DT WARN
L	118+61.9	78.27' RT	758.18	757.64	757.68	
M	118+97.7	74.8' RT	759.18	757.64	757.68	DT WARN
N	118+97.8	78.8' RT	759.02	757.68	757.72	DT WARN
O	118+99.7	74.8' RT			757.71	DT WARN
P	118+99.8	78.8' RT			757.77	DT WARN
Q	119+04.9	74.9' RT	757.80		757.80	
R	119+04.8	78.9' RT	758.00		758.00	
S	119+05.1	83.8' RT			758.16	
T	119+08.9	75.0' RT			758.00	
U	119+08.8	78.9' RT			758.06	
V	119+09.2	83.4' RT			758.10	
W	119+12.9	75.1' RT			758.10	
X	119+12.9	75.0' RT			758.09	

LEGEND

- (A) POINT
- [Patterned Box] DETECTABLE WARNINGS
- [Hatched Box] CURB DEPRESSION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECTCONTACT#
 DATE PLOTTED: 5/25/2018 12:05:12 PM
 FILE NAME: 033-sht-det-sw-ramps-04.dgn
 PLOT DRIVER: IL.pdf,bw,dh,ef,g
 PEN TABLE: plotlabel.tbl



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 PLOT SCALE = 1"=10'
 PLOT DATE = 5/25/2018

DESIGNED - JCH
 DRAWN - DMS
 CHECKED - JJS
 DATE - 5/25/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'

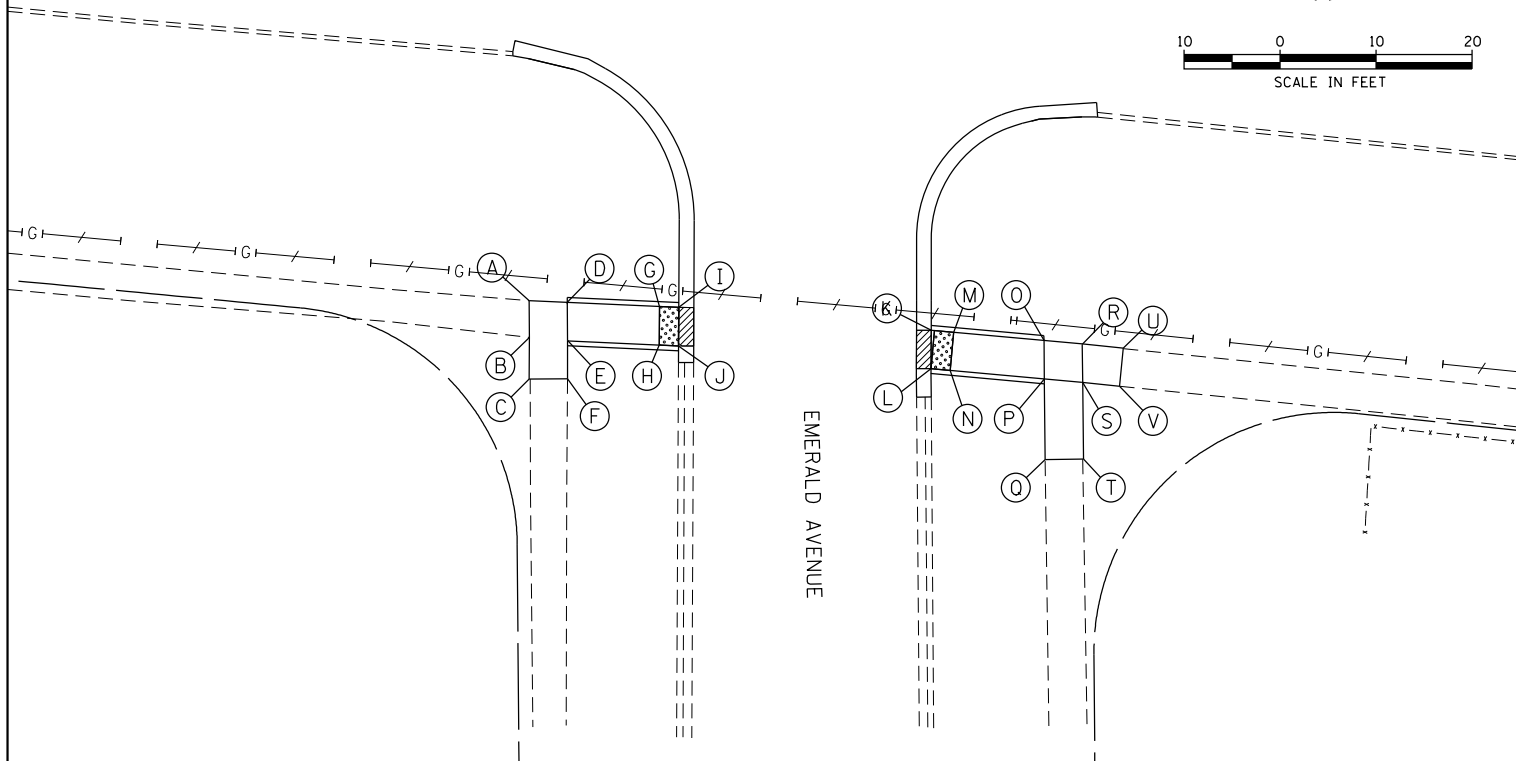
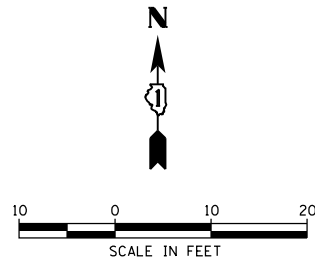
SHEET NO. 4 OF 5 SHEETS

STA. TO STA.

SIDEWALK RAMP DETAILS
 IL 176 (W MAPLE AVE) BICYCLE PATH

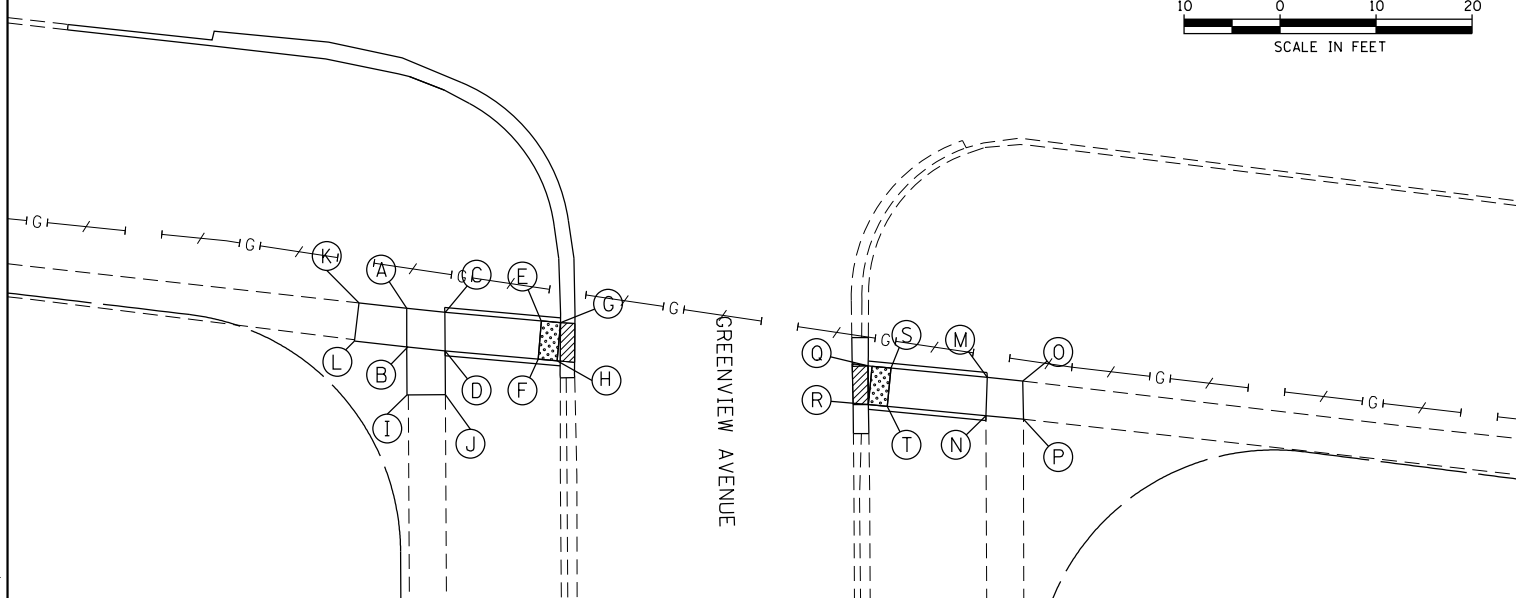
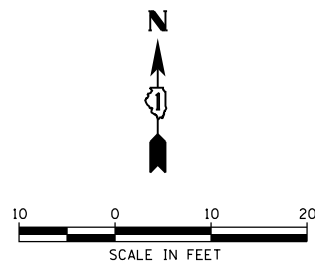
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	47
CONTRACT NO.			61E17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

IL ROUTE 176 (MAPLE AVENUE)



EMERALD AVENUE

IL ROUTE 176 (MAPLE AVENUE)



GREENVIEW AVENUE

POINT DESCRIPTION EMERALD AVENUE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	121+93.8	74.7' RT			756.26	
B	121+94.2	78.5' RT			756.18	
C	121+94.6	82.8' RT			755.99	
D	121+97.7	74.5' RT	756.20		756.20	
E	121+98.2	78.4' RT	756.14		756.14	
F	121+98.6	82.4' RT			755.86	
G	122+07.3	73.9' RT			755.64	DT WARN
H	122+07.7	77.9' RT			755.58	DT WARN
I	122+09.3	73.8' RT		755.48	755.52	DT WARN
J	122+09.7	77.8' RT		755.36	755.40	DT WARN
K	122+35.8	73.6' RT	755.58	755.34	755.38	DT WARN
L	122+36.1	77.5' RT	755.77	755.23	755.27	DT WARN
M	122+37.8	73.4' RT			755.55	
N	122+38.1	77.5' RT			755.44	
O	122+47.5	73.4' RT	756.28		756.28	
P	122+48.0	77.4' RT	756.28		756.25	
Q	122+48.9	85.7' RT			756.68	
R	122+51.5	73.3' RT			756.34	
S	122+52.0	77.3' RT			756.31	
T	122+52.9	85.3' RT			756.74	
U	122+55.9	73.3' RT			756.56	
V	122+55.9	77.3' RT			756.67	

POINT DESCRIPTION GREENVIEW AVENUE						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	125+16.7	84.0' RT			756.03	
B	125+17.3	87.9' RT			756.04	
C	125+20.7	84.0' RT	755.98		755.98	
D	125+21.2	88.0' RT	755.98		755.98	
E	125+30.8	83.8' RT			755.63	DT WARN
F	125+30.9	87.8' RT			755.57	DT WARN
G	125+32.8	83.8' RT	756.06	755.52	755.56	DT WARN
H	125+33.3	87.8' RT	756.02	755.48	755.52	DT WARN
I	125+17.7	92.9' RT			755.98	
J	125+21.6	92.5' RT			755.98	
K	125+11.7	83.9' RT			756.05	
L	125+11.6	87.9' RT			756.09	
M	125+79.4	84.1' RT	755.89		755.89	
N	125+79.7	88.1' RT	755.87		755.87	
O	125+83.1	84.0' RT			755.88	
P	125+83.7	88.0' RT			755.89	
Q	125+66.9	84.5' RT	755.84	755.30	755.34	DT WARN
R	125+67.4	88.4' RT	755.79	755.25	755.29	DT WARN
S	125+69.3	84.4' RT			755.45	DT WARN
T	125+69.4	88.4' RT			755.39	DT WARN

LEGEND

- (A) POINT
- [Hatched Box] DETECTABLE WARNINGS
- [Diagonal Lines Box] CURB DEPRESSION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/25/2018 12:05:17 PM
 FILE NAME: 033-sht-det-sw-ramps-05.dgn
 PLOT DRIVER: IL.pdf, bw, dwt, etc.
 PEN TABLE: plot.tbl



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FILE NAME = 033-sht-det-sw-ramps-05.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=10'	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'		SHEET NO. 5 OF 5 SHEETS		STA. TO STA.	
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SIDEWALK RAMP DETAILS
 IL 176 (W MAPLE AVE) BICYCLE PATH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	48
CONTRACT NO.			61E17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Benchmark
 BM2: Arrow bolt on hydrant located at the southwest corner of Route 176 and Ridgemoor Avenue.
 Elevation=765.817 NAVD 88

Existing Structure: None

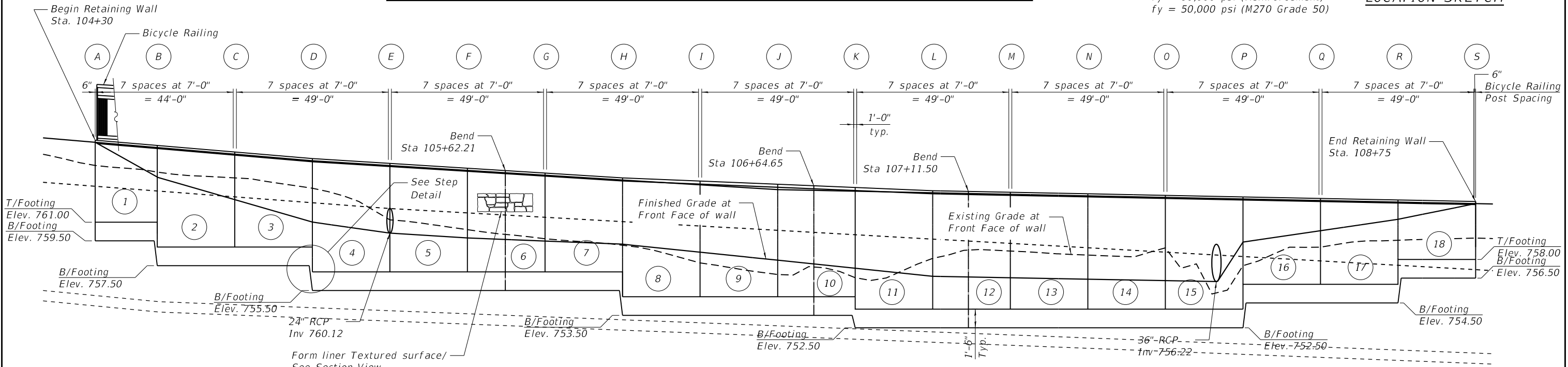
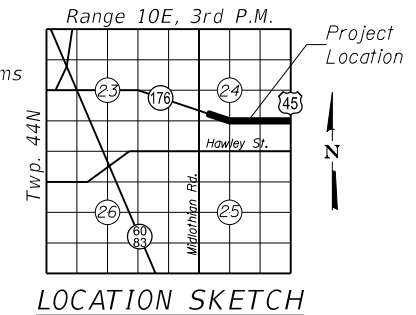
Joint	Station	Type	T/Wall Elev.	Grade at Wall	Joint	Station	Type	T/Wall Elev.	Grade at Wall
A	104+30	-	767.61	767.44	K	106+75	EJ	763.80	757.29
B	104+50	CJ	767.18	764.64	L	107+00	CJ	763.54	765.65
C	104+75	EJ	766.55	762.82	M	107+25	EJ	763.42	756.53
D	105+00	CJ	766.12	761.01	N	107+50	CJ	763.29	756.41
E	105+25	EJ	765.74	760.12	O	107+75	EJ	763.17	756.30
F	105+50	CJ	765.35	759.73	P	108+00	CJ	763.04	759.40
G	105+75	EJ	764.96	759.48	Q	108+25	EJ	762.92	760.32
H	106+00	CJ	764.57	759.23	R	108+50	CJ	762.79	761.24
I	106+25	EJ	764.32	758.58	S	108+75	-	762.67	762.51
J	106+50	CJ	764.06	757.94					

CJ = Construction Joint / EJ = Expansion Joint

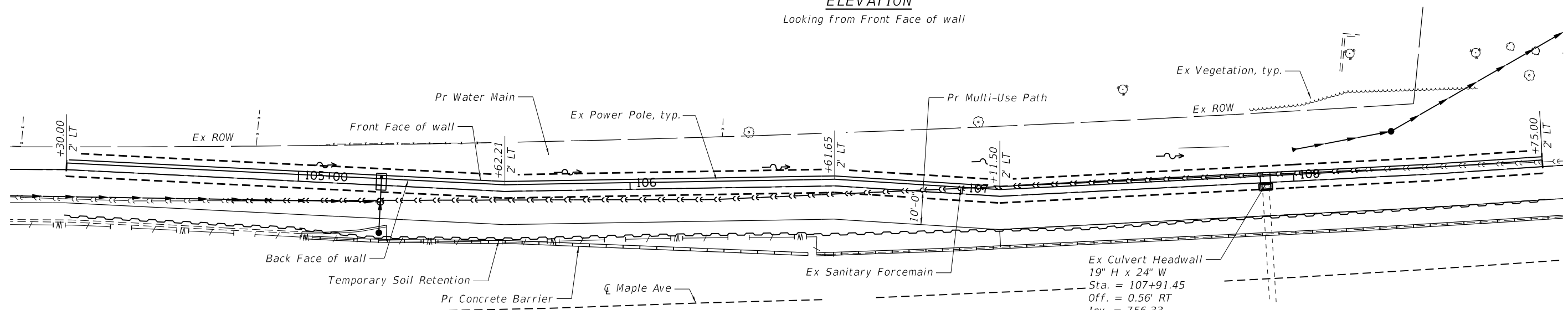
DESIGN SPECIFICATIONS
 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 Interims

LOADING
 100 PSF Live Load

DESIGN STRESSES
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)



ELEVATION
 Looking from Front Face of wall



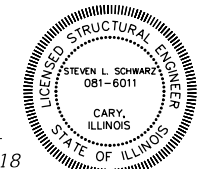
LEGEND

- - - Ex Chain Link Fence
- - - Ex Guardrail
- - - Ex Sanitary Sewer
- - - Ex Storm Sewer
- - - Ex Water
- - - Ex Aerial Utility
- - - Ex Power Pole
- - - Pr Ditch
- - - Ex Force Main
- - - Pr Force Main
- - - Pr Temp Soil Retention
- ⊙ Ex Tree
- # Panel Number
- A Panel Joint

PLAN

To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridges Design Specifications".

Steven L. Schwarz
 Structural Engineer Expires: 11/30/2018
 HR Green, Inc.



GENERAL PLAN AND ELEVATION
PROPOSED RETAINING WALL
 FAU RTE 1238 (MAPLE AVE/IL RTE 176)
 SECTION 15-00101-00-BT
 LAKE COUNTY
 STA. 104+30 TO STA. 108+75

HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 033-str-ope.dgn
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 PLOT DRIVER: il.pdf.bw.difefg
 PEN TABLE: plc-table.tbl



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	CHECKED - JJS	REVISIONS
PLOT SCALE =	DRAWN - WJH	REVISIONS
PLOT DATE = 5/25/2018	CHECKED - 5/25/18	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	49
CONTRACT NO. 61E17				

GENERAL NOTES:

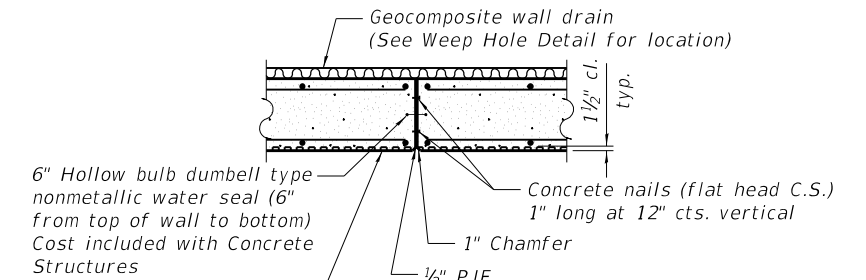
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Over excavation beyond the limits of structure excavation is not measured for payment. Backfill over excavation with same material specified for roadway embankment.
3. "Porous Granular Backfill" and "Removal and Disposal of Unsuitable Material" not included in the Earthwork Schedule have been added for use if Unsuitable Material is encountered in the field as determined by the Engineer. If Unsuitable Material is not encountered, then the quantities shall be deducted and no compensation will be due to the Contractor.

Additional Quantity:

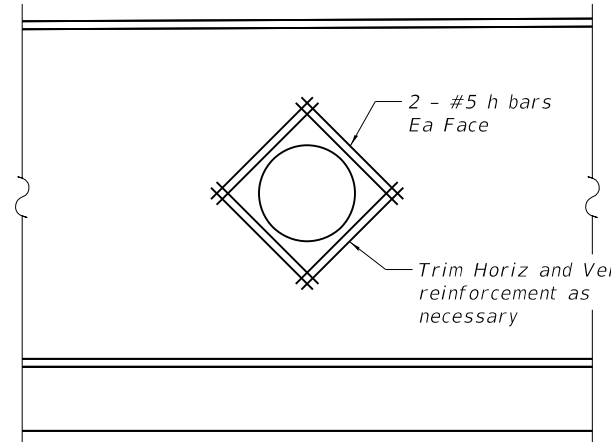
Removal and Disposal of Unsuitable Material = 100 CU YD.
 Porous Granular Backfill = 100 CU YD.

TOTAL BILL OF MATERIAL

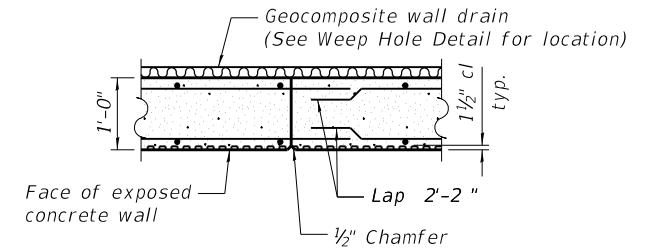
ITEM	UNIT	TOTAL
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
POROUS GRANULAR BACKFILL	CU YD	447
STRUCTURE EXCAVATION	CU YD	1,844
CONCRETE STRUCTURES	CU YD	316
FORM LINER TEXTURED SURFACE	SQ FT	2,785
REINFORCEMENT BARS	POUND	26,900
REINFORCEMENT BARS, EPOXY COATED	POUND	5,831
BICYCLE RAILING	FOOT	444
GEOCOMPOSITE WALL DRAIN	SQ YD	260
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2,340



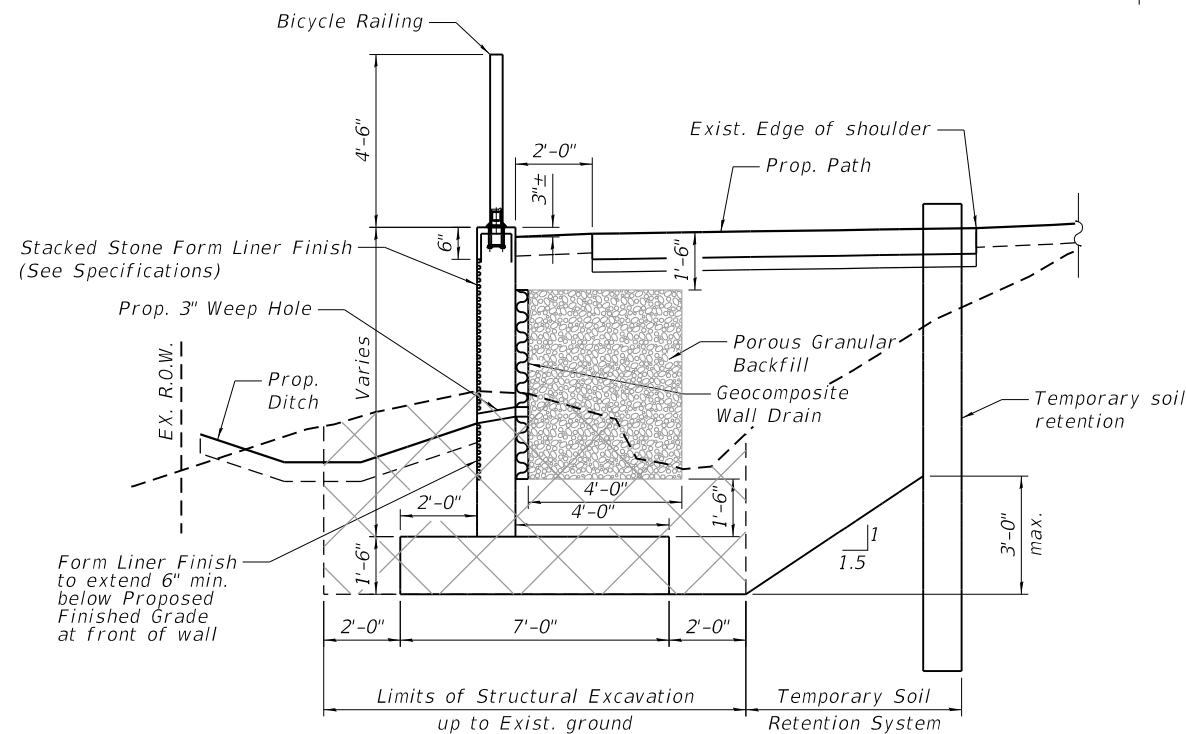
EXPANSION JOINT
 Cost included with Concrete Structures



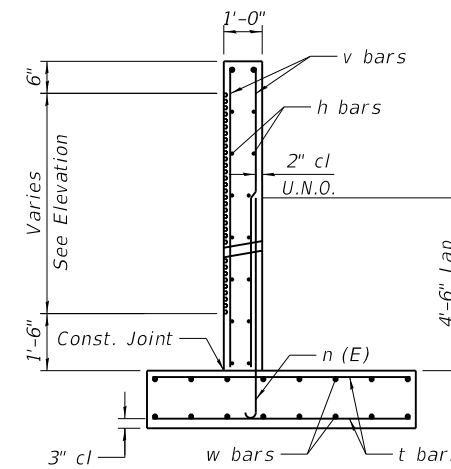
PIPE PENETRATION DETAIL



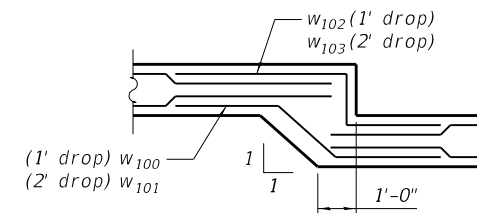
CONSTRUCTION JOINT
 Cost included with Concrete Structures



SECTION THROUGH WALL
 Showing Dimensions



SECTION THROUGH WALL
 Showing Reinforcement



STEP DETAIL

HRG PROJECT NO.: 170033
 HRG PROJ. CONTACT: 033-str-00n.dgn
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 PLOT DRIVER: pld-fabell.tbl
 PEN TABLE:



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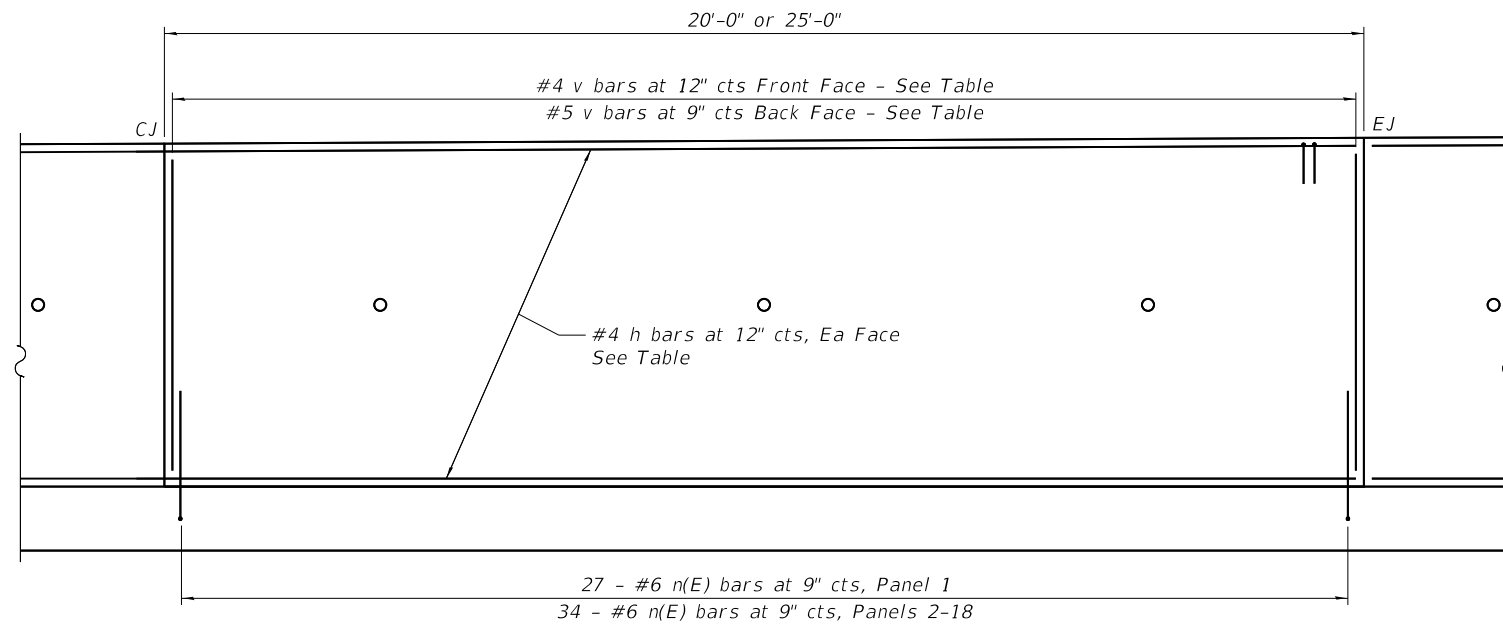
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, BILL OF MATERIALS AND TYPICAL SECTIONS
IL 176 (W MAPLE AVE) BICYCLE PATH

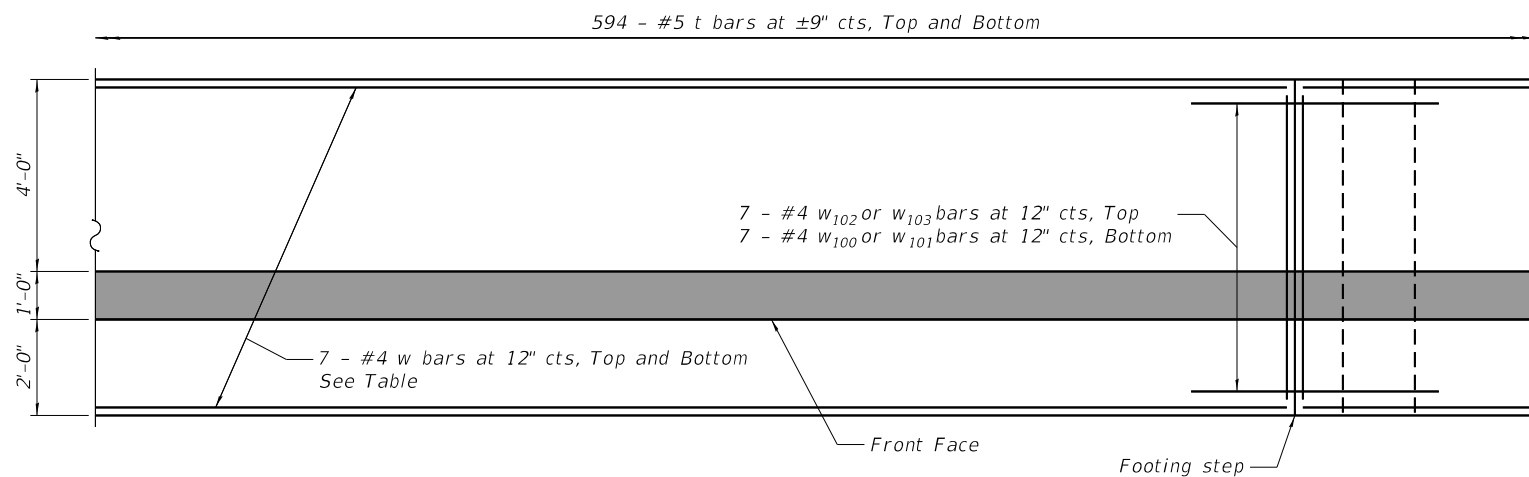
SHEET NO. 2 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	50
CONTRACT NO. 61E17				

ILLINOIS FED. AID PROJECT



TYPICAL WALL SECTION
(Looking at Front Face)

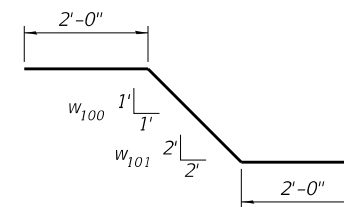


TYPICAL FOOTING PLAN

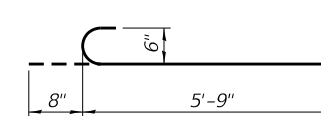
v BAR TABLE

Panel #	Front Face Bars	Back Face Bars	Note
1	V ₁	V ₁₀₁	1
2	V ₂	V ₁₀₂	1
3	V ₃	V ₁₀₃	1
4	V ₄	V ₁₀₄	1
5	V ₅	V ₁₀₅	1
6	V ₆	V ₁₀₆	1
7	V ₇	V ₁₀₇	1
8	V ₈	V ₁₀₈	1
9	V ₉	V ₁₀₉	1
10	V ₁₀	V ₁₁₀	1
11	V ₁₁	V ₁₁₁	1
12	V ₁₂	V ₁₁₂	1
13	V ₁₃	V ₁₁₃	1
14	V ₁₄	V ₁₁₄	1
15	V ₁₅	V ₁₁₅	1
16	V ₁₆	V ₁₁₆	1
17	V ₁₇	V ₁₁₇	1
18	V ₁₈	V ₁₁₈	1

NOTES:
1 TRIM AS REQUIRED.



W_{100,101} BAR



n(E) BAR

MINIMUM BAR LAP

#4 = 2'-0"
#5 = 3'-3"
#6 = 4'-6"

BILL OF MATERIALS

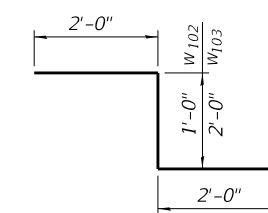
Bar	No.	Size	Length	Shape
h ₁	8	#4	44'- 8"	—
h ₂	20	#4	24'- 8"	—
h ₃	158	#4	49'- 8"	—
n (E)	605	#6	6'- 5"	—
t	1,188	#5	6'- 8"	—
V ₁	20	#4	6'- 3"	—
V ₂	25	#4	7'- 10"	—
V ₃	25	#4	7'- 3"	—
V ₄	25	#4	8'- 9"	—
V ₅	25	#4	8'- 5"	—
V ₆	25	#4	8'- 0"	—
V ₇	25	#4	7'- 7"	—
V ₈	25	#4	9'- 3"	—
V ₉	25	#4	9'- 0"	—
V ₁₀	25	#4	8'- 9"	—
V ₁₁	25	#4	9'- 5"	—
V ₁₂	25	#4	9'- 2"	—
V ₁₃	25	#4	9'- 1"	—
V ₁₄	25	#4	8'- 11"	—
V ₁₅	25	#4	8'- 10"	—
V ₁₆	25	#4	6'- 8"	—
V ₁₇	25	#4	6'- 7"	—
V ₁₈	25	#4	4'- 5"	—
V ₁₀₁	27	#5	6'- 3"	—
V ₁₀₂	34	#5	7'- 10"	—
V ₁₀₃	34	#5	7'- 3"	—
V ₁₀₄	34	#5	8'- 9"	—
V ₁₀₅	34	#5	8'- 5"	—
V ₁₀₆	34	#5	8'- 0"	—
V ₁₀₇	34	#5	7'- 7"	—
V ₁₀₈	34	#5	9'- 3"	—
V ₁₀₉	34	#5	9'- 0"	—
V ₁₁₀	34	#5	8'- 9"	—
V ₁₁₁	34	#5	9'- 5"	—
V ₁₁₂	34	#5	9'- 2"	—
V ₁₁₃	34	#5	9'- 1"	—
V ₁₁₄	34	#5	8'- 11"	—
V ₁₁₅	34	#5	8'- 10"	—
V ₁₁₆	34	#5	6'- 8"	—
V ₁₁₇	34	#5	6'- 7"	—
V ₁₁₈	0	#5	0"	—
W ₁	14	#4	19'- 8"	—
W ₂	56	#4	49'- 8"	—
W ₃	42	#4	34'- 7"	—
W ₄	28	#4	38'- 4"	—
W ₅	42	#4	42'- 11"	—
W ₆	14	#4	24'- 8"	—
W ₁₀₀	7	#4	5'- 5"	—
W ₁₀₁	35	#4	6'- 10"	—
W ₁₀₂	7	#4	5'- 0"	—
W ₁₀₃	35	#4	6'- 0"	—
Porous Granular Backfill		Cu. Yd.	447	
Structure Excavation		Cu. Yd.	0	
Concrete Structures		Cu. Yd.	316	
Reinforcement Bars, Epoxy		Pound	32,720	
Geocomposite Wall Drain		Sq. Yd.	260	

h BAR TABLE

From STA	To STA	Panel #	h bars	Note
104+30.00	104+75.00	1,2	8-h ₁ ,2-h ₂	1,3
104+75.00	105+25.00	3,4	8-h ₃ ,2-h ₂	1,3
105+25.00	105+75.00	5,6	9-h ₃	1,2,3
105+75.00	106+25.00	7,8	9-h ₃ ,2-h ₂	1,3
106+25.00	106+75.00	9,10	10-h ₃	1,2,3
106+75.00	107+25.00	11,12	11-h ₃	1,2,3
107+25.00	107+75.00	13,14	10-h ₃	1,3
107+75.00	108+25.00	15,16	8-h ₃ ,2-h ₂	1,3
108+25.00	108+75.00	17,18	6-h ₃ ,2-h ₂	1,3

w BAR TABLE

From STA	To STA	Panel #	w bars	No Req'd (Top)	No Req'd (Bottom)
104+30.00	104+50.00	1	w ₁	7	7
104+50.00	105+00.00	2,3	w ₂	14	14
105+00.00	106+00.00	4,5,6,7	w ₃	21	21
106+00.00	106+75.00	8,9,10	w ₄	14	14
106+75.00	108+00.00	11,12,13,14,15	w ₅	21	21
108+00.00	108+50.00	16,17	w ₂	14	14
108+50.00	108+75.00	18	w ₆	7	7



W_{102,103} BAR

NOTES:
1 FAN BARS AS REQUIRED.
2 BEND #4 h BARS AT BEND POINTS.
3 QUANTITIES ARE FOR A SINGLE FACE, TWO FACES REQUIRED.

HRG PROJECT NO.: 170033
HRG PROJ. CONTACT: 033-str-def@hrdg.com
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PLOT DRIVER: IL.pdf.dwg
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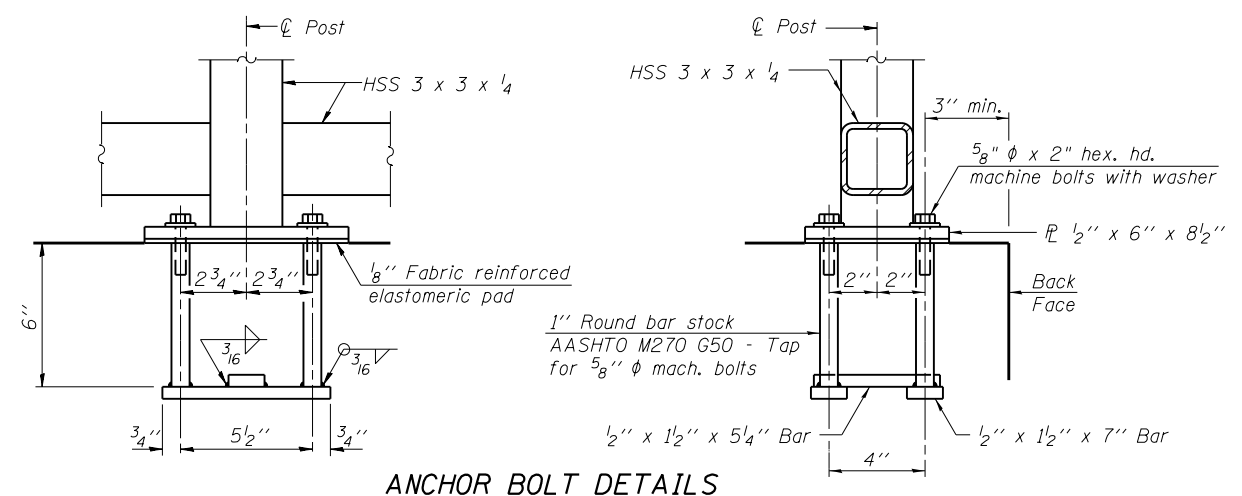
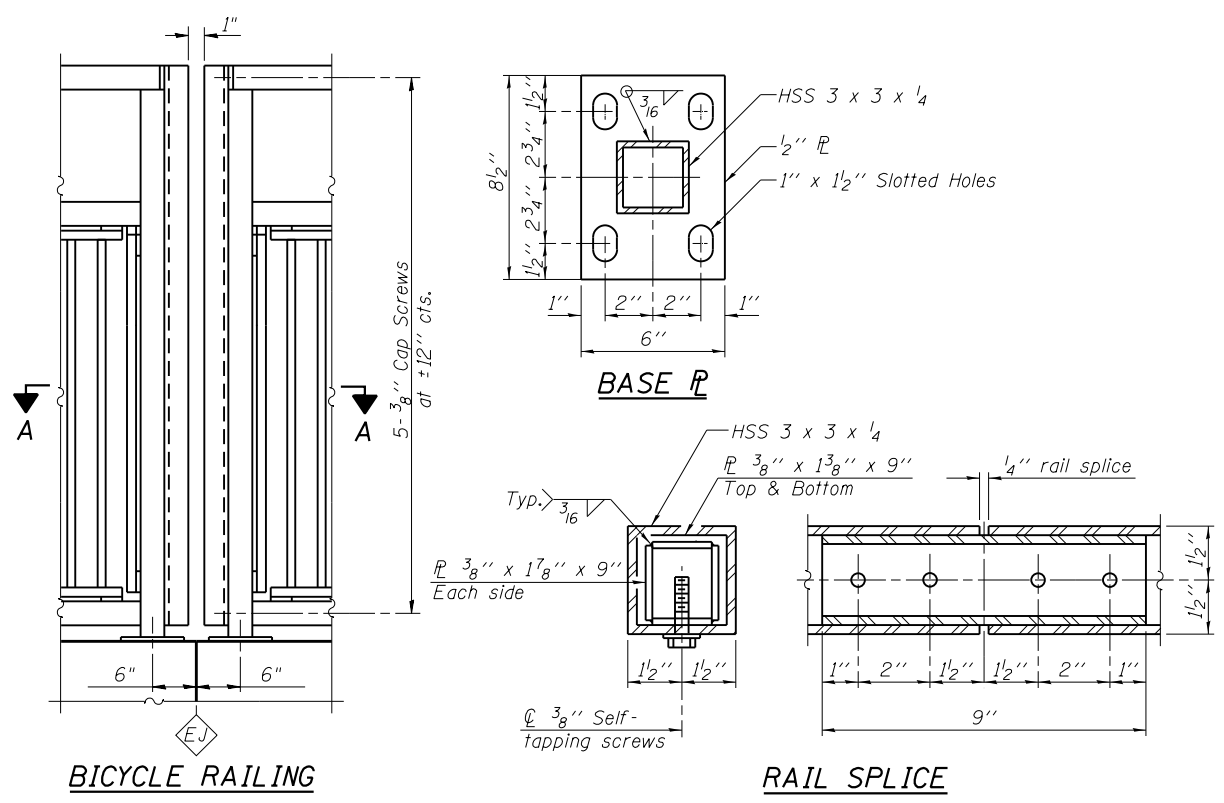
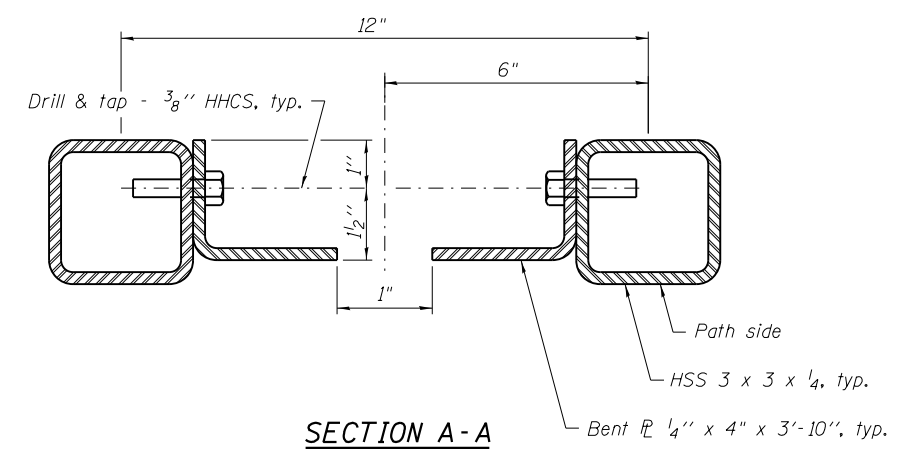
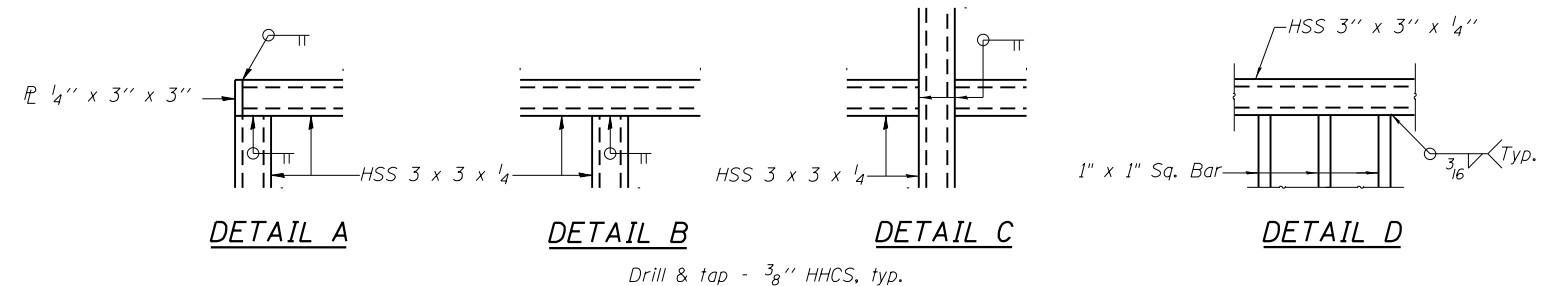
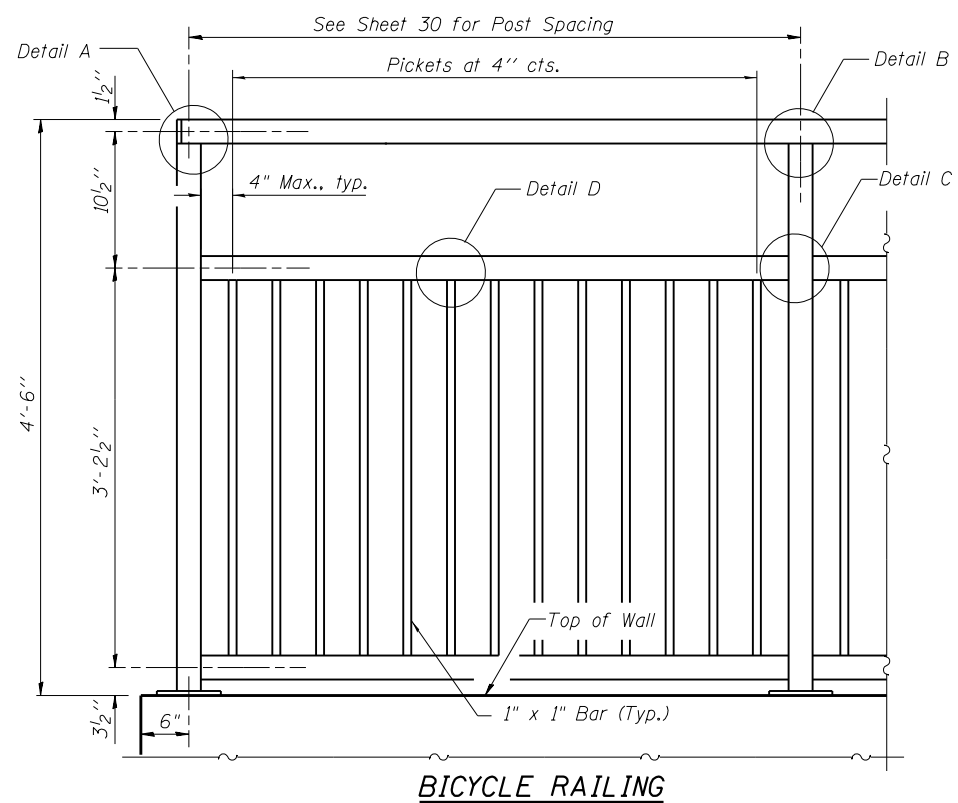
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PLOT DATE = 5/25/2018	CHECKED - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL WALL DETAILS
IL 176 (W MAPLE AVE) BICYCLE PATH

SHEET NO. 3 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	51
				CONTRACT NO. 61E17
ILLINOIS FED. AID PROJECT				



NOTES

All post, railing, pickets, splices, and anchor devices shall be powder coated black. The powder coating system to be used shall be approved by the engineer prior to the coating process.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	444

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 HRG PROJ. CONTACT: 033-str-railing.dgn
 FILE NAME: IL.pdf.bw.pdf
 PLOT DRIVER: IL.pdf.bw.pdf
 PEN TABLE: plc-table.tbl

HRGreen
 HRGreen.com
 Professional Design Firm
 #184-001322

USER NAME = dstencz	DESIGNED - SLS	REVISED -
PLOT SCALE =	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DRAWN - WJH	REVISED -
	CHECKED - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
IL 176 (W MAPLE AVE) BICYCLE PATH

SHEET NO. 4 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	52
CONTRACT NO. 61E17				
ILLINOIS FED. AID PROJECT				

Date(s) Drilled: April 17, 2017	Logged By: Donald K. Sisson	Checked By: Christopher Chan
Drilling Method: Continuous Flight Auger	Drill Bit Size/Type: 3 inch soil bit	Total Depth of Borehole: 25 feet bgs
Drill Rig Type: CME 45	Contractor: i. e. xploation, llc	Approximate Surface Elevation: 767.1 feet MSL
Groundwater Level and Date Measured: 3.5 feet ATD	Sampling Method: SPT	Hammer Data: 140 lb, 30 in drop, auto trip
Borehole Backfill: Soil Cuttings and Asphalt Patch	Location: IL 176 (WB Shoulder) / Station 104+52 / Offset 18 feet RT of centerline;	

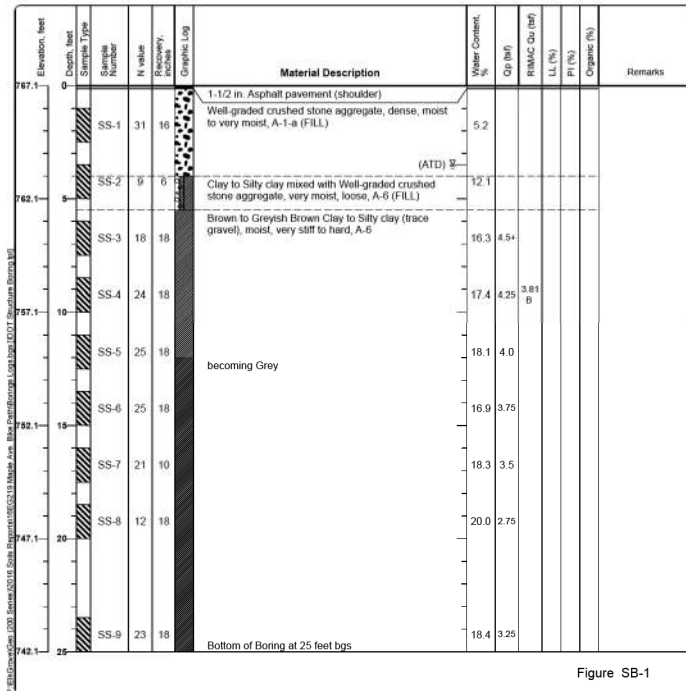


Figure SB-1

Date(s) Drilled: April 17, 2017	Logged By: Donald K. Sisson	Checked By: Christopher Chan
Drilling Method: Continuous Flight Auger	Drill Bit Size/Type: 3 inch soil bit	Total Depth of Borehole: 18.3 feet bgs
Drill Rig Type: CME 45	Contractor: i. e. xploation, llc	Approximate Surface Elevation: 764.5 feet MSL
Groundwater Level and Date Measured: Not Encountered ATD	Sampling Method: SPT	Hammer Data: 140 lb, 30 in drop, auto trip
Borehole Backfill: Soil Cuttings and Asphalt Patch	Location: IL 176 (WB Shoulder) / Station 106+28 / Offset 18 feet RT of centerline;	

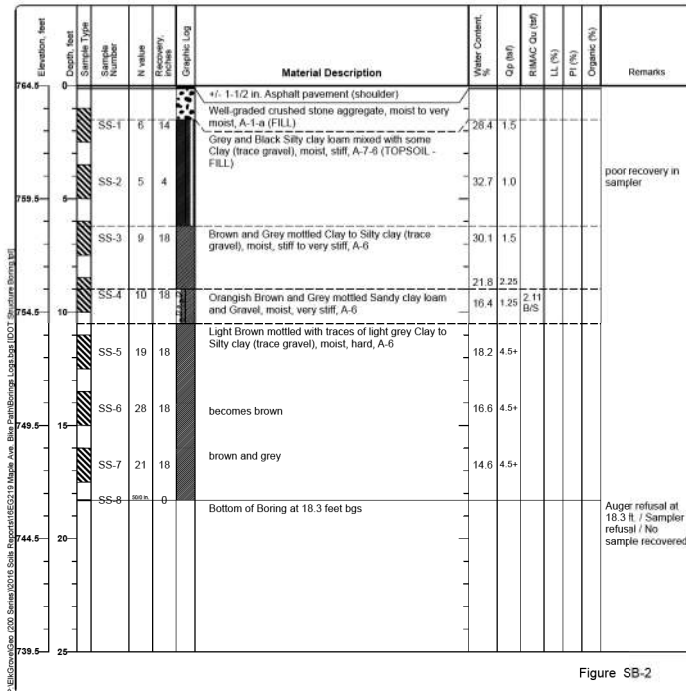


Figure SB-2

Date(s) Drilled: April 17, 2017	Logged By: Donald K. Sisson	Checked By: Christopher Chan
Drilling Method: Continuous Flight Auger	Drill Bit Size/Type: 3 inch soil bit	Total Depth of Borehole: 25 feet bgs
Drill Rig Type: CME 45	Contractor: i. e. xploation, llc	Approximate Surface Elevation: 763.4 feet MSL
Groundwater Level and Date Measured: 23.5 feet ATD	Sampling Method: SPT	Hammer Data: 140 lb, 30 in drop, auto trip
Borehole Backfill: Soil	Location: IL 176 (WB Shoulder) / Station 108+04 / Offset 12 feet RT of centerline;	

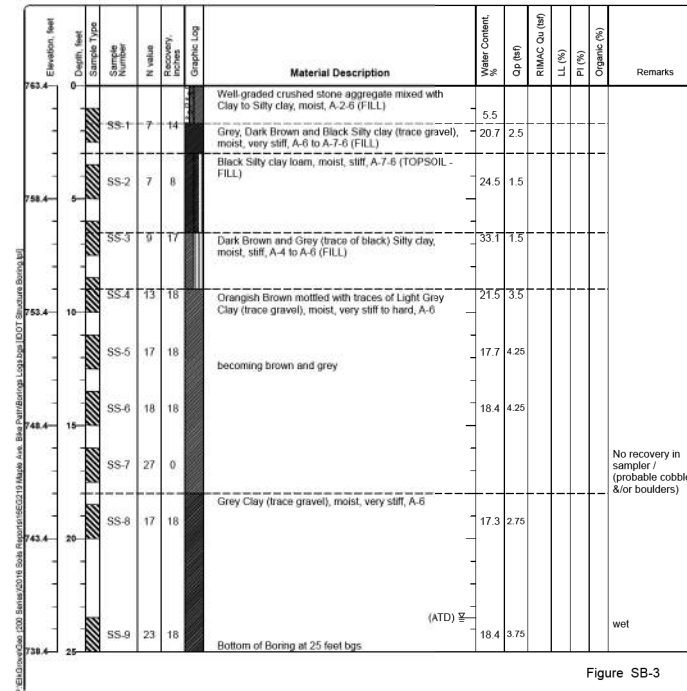
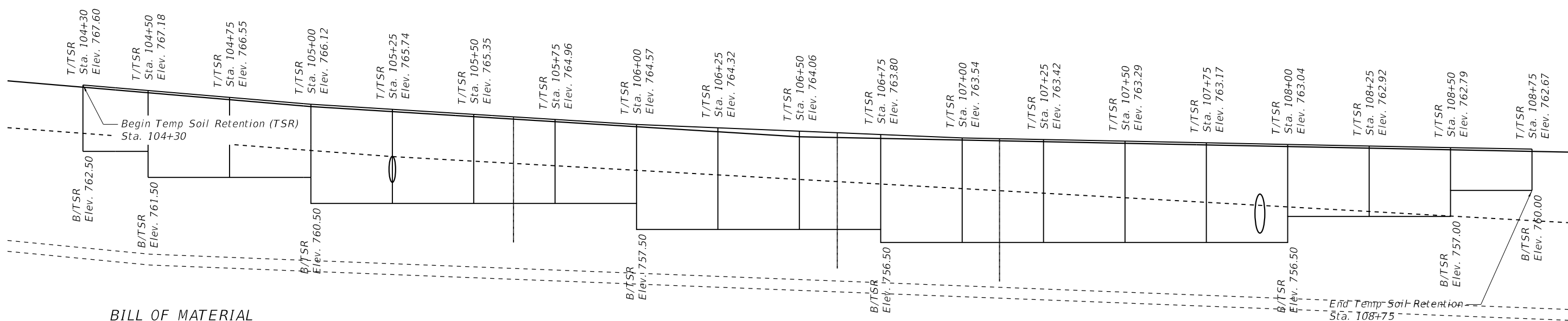


Figure SB-3



BILL OF MATERIAL

Item	Unit	Quantity
Temp. Soil Retention	SQ FT	2,340

TEMPORARY SOIL RETENTION
 Elevation View

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PLOT DATE = 5/25/2018	DRAWN - WJH	REvised -
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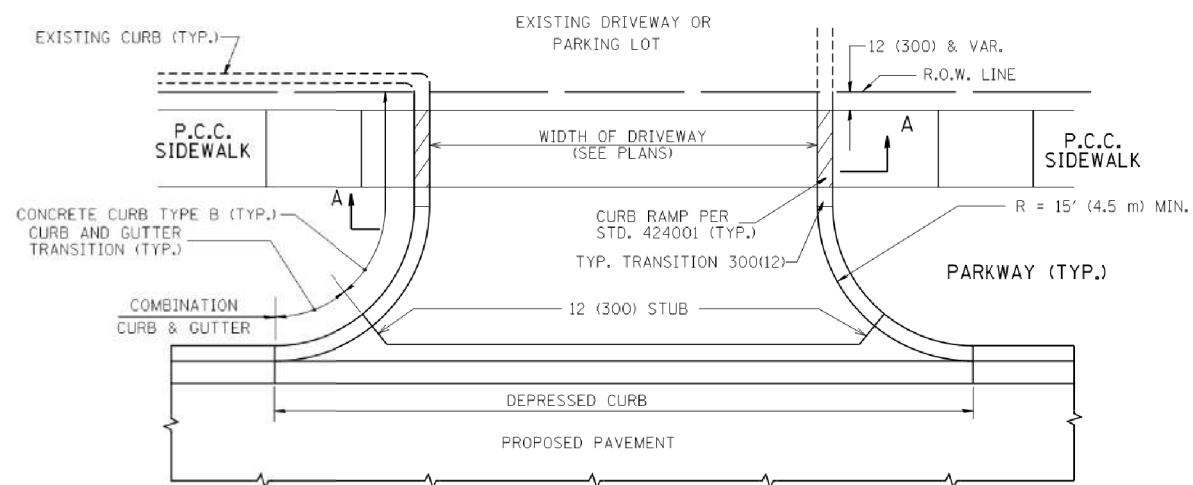
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS AND TEMPORARY SOIL RETENTION
 IL 176 (W MAPLE AVE) BICYCLE PATH

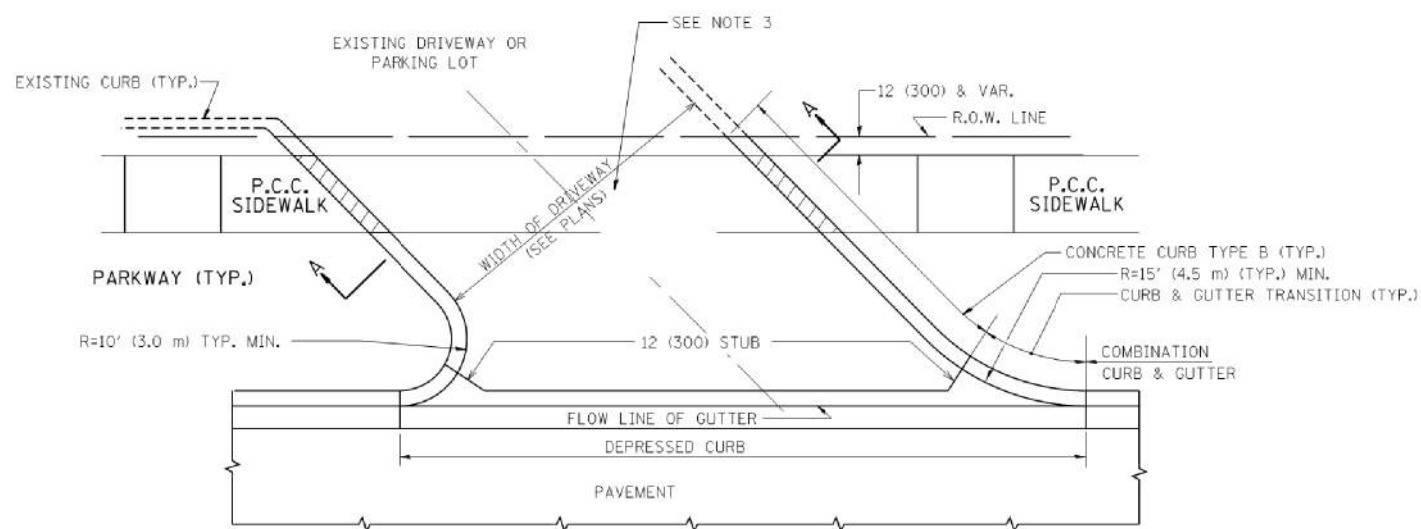
SHEET NO. 5 OF 5 SHEETS

F.A.U. RTE. 1238	SECTION 15-00101-00-BT	COUNTY LAKE	TOTAL SHEETS 87	SHEET NO. 53
CONTRACT NO. 61E17				

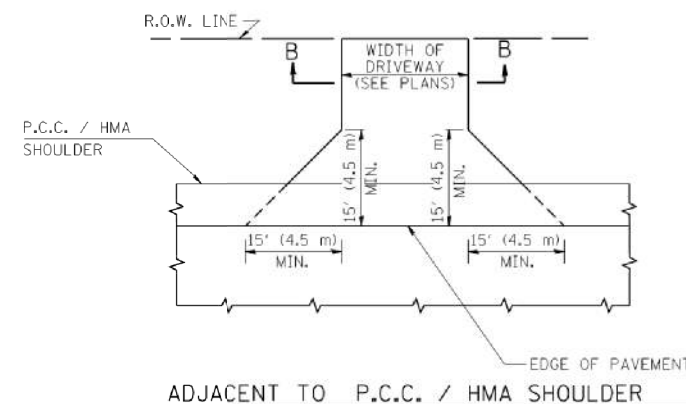
ILLINOIS FED. AID PROJECT



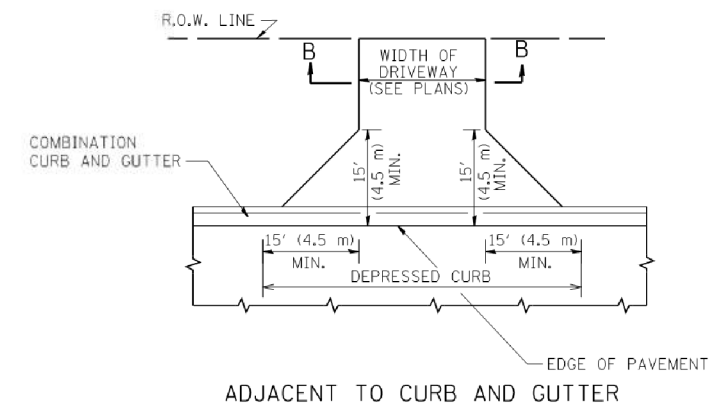
WITH CONCRETE CURB, TYPE B



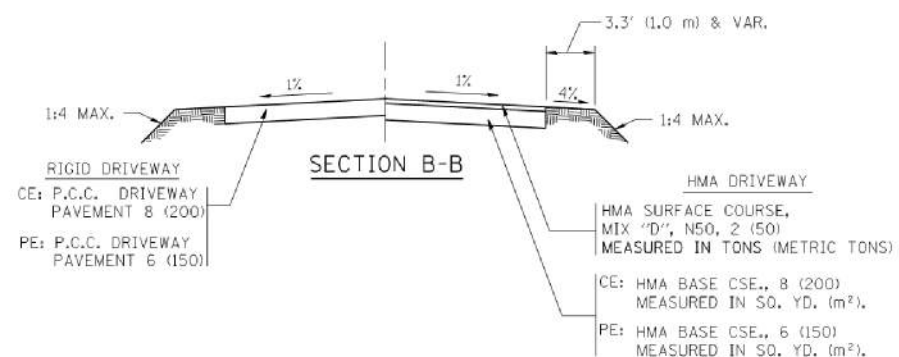
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX 'D', N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

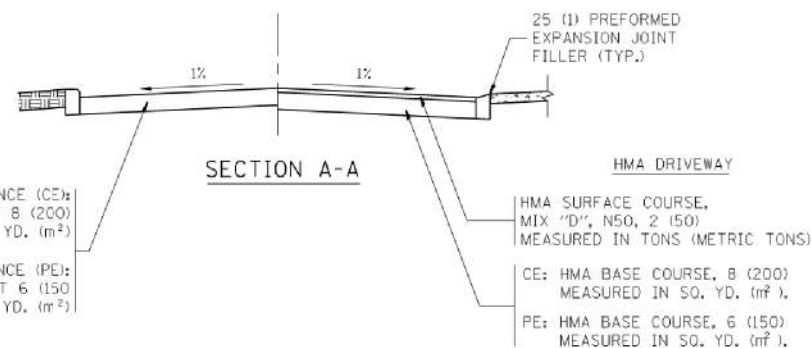
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



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PROJECT CONTACT: \$PROJECT.CONTACT#
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		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	54
BD0156-07 (BD-01)		CONTRACT NO.	61E17	
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)

18" (450) MAX.

1/4" (5) **

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

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

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.)

* 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.

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.

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

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

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.

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 USABLE 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".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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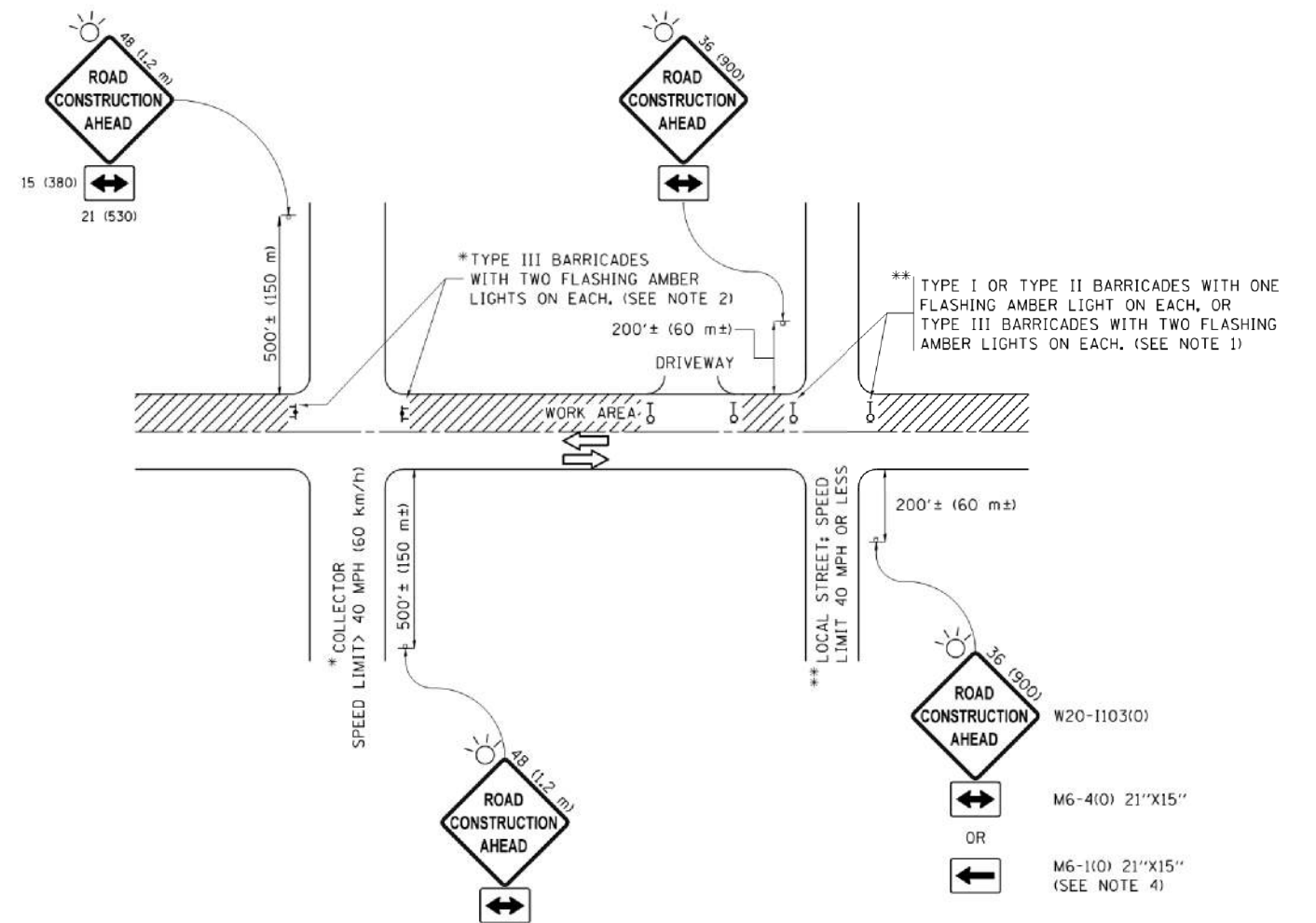
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	55
BD600-06 (BD-24)			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. 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.
4. 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).
5. 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.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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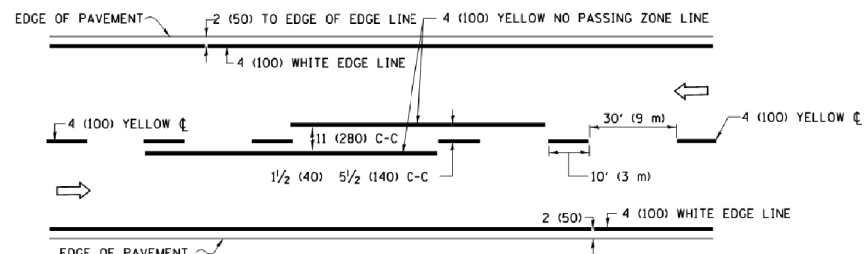
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

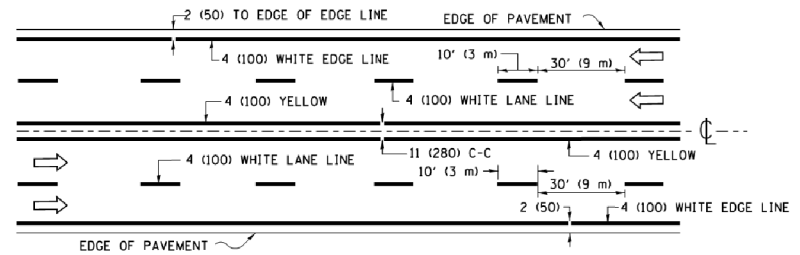
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SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

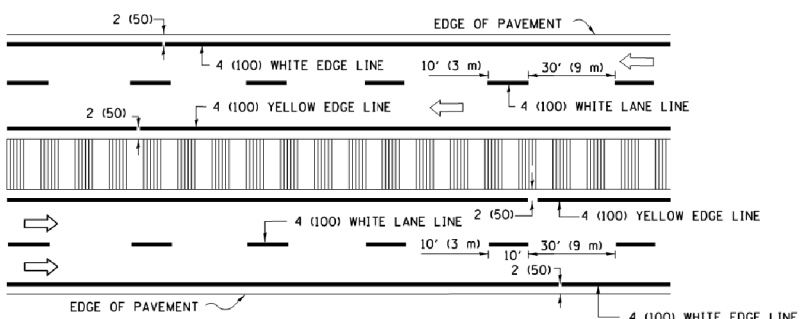
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TC-10			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

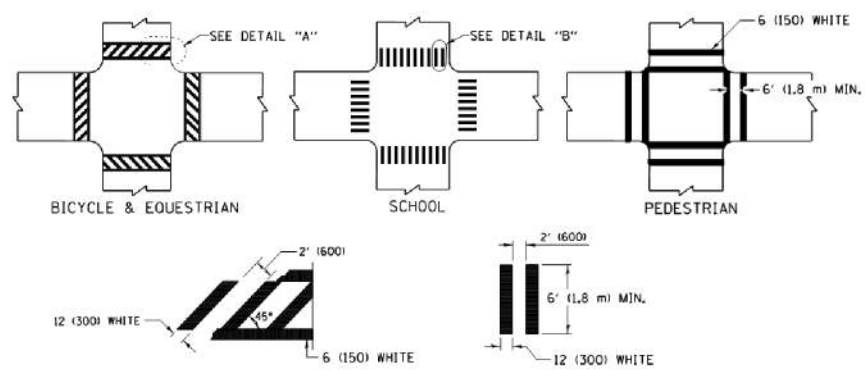


MULTI-LANE UNDIVIDED



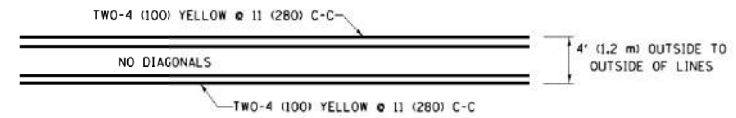
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

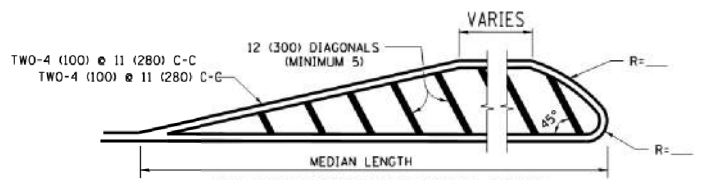


TYPICAL CROSSWALK MARKING

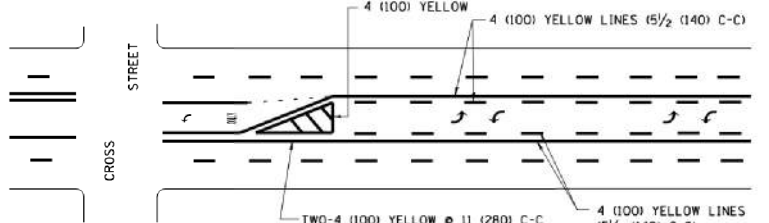
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



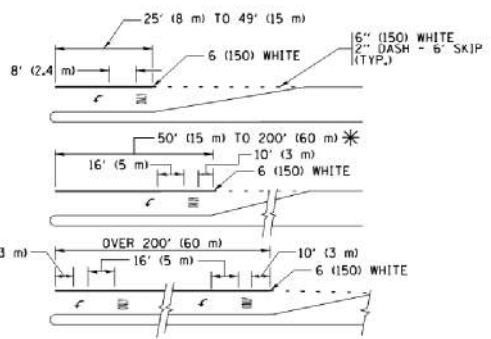
4' (1.2 m) WIDE MEDIANS ONLY



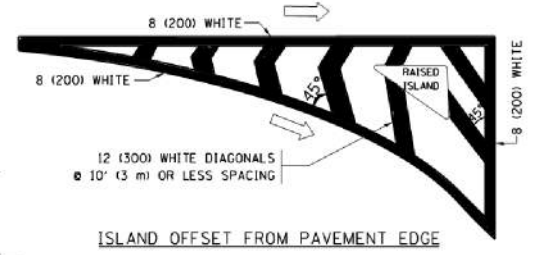
MEDIANS OVER 4' (1.2 m) WIDE



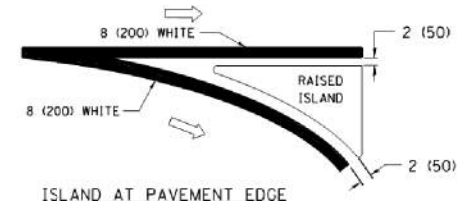
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



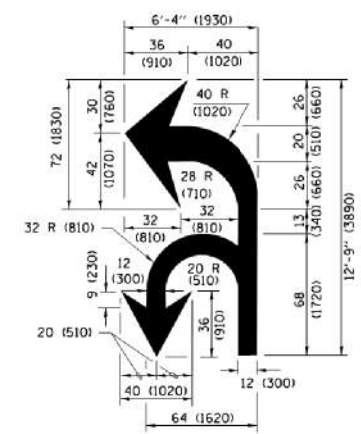
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



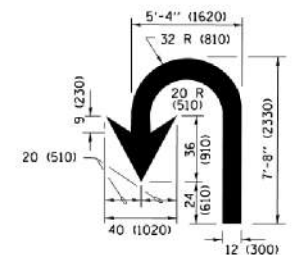
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

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

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

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

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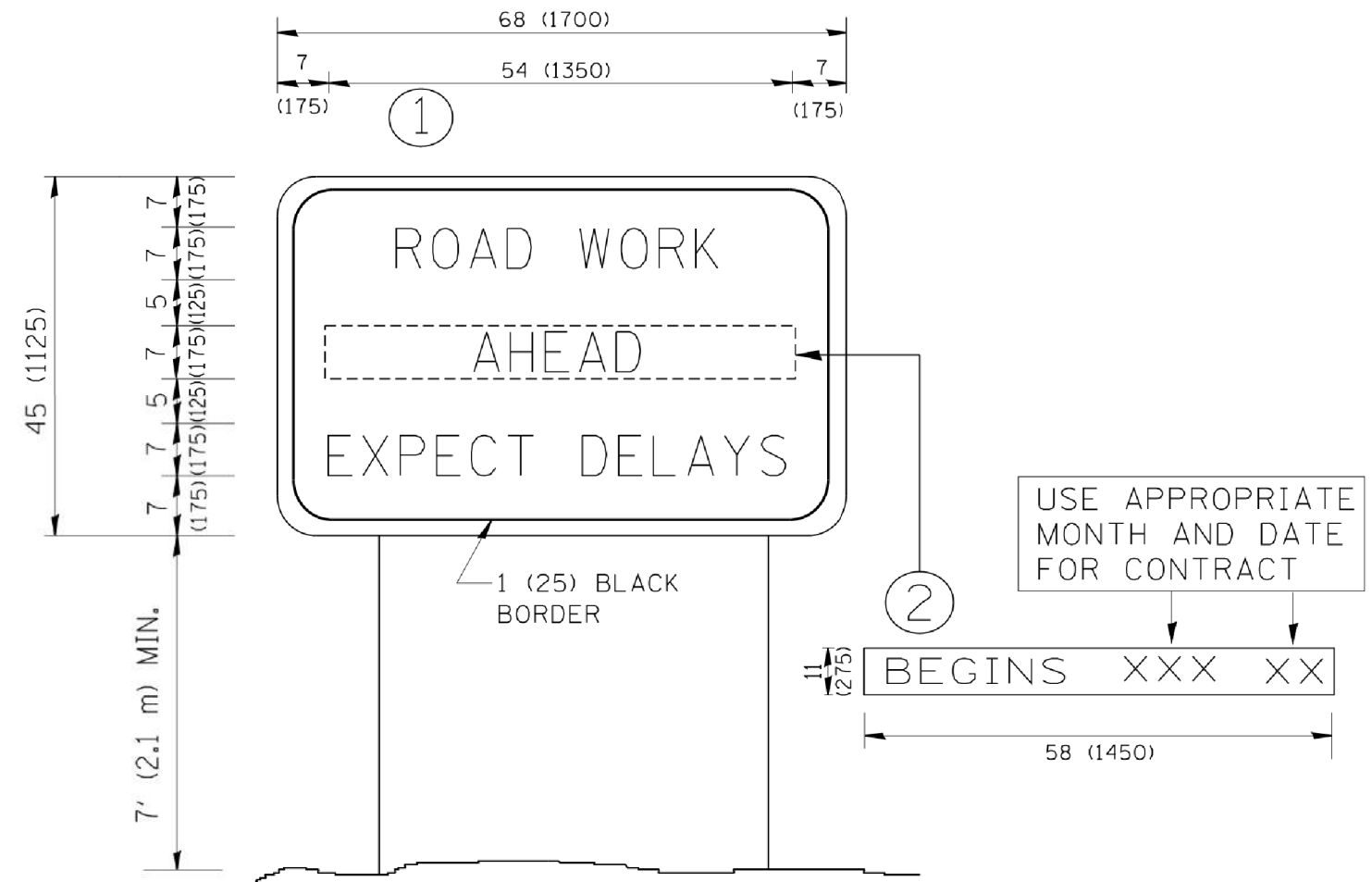
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

F.A.U R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	57
TC-13		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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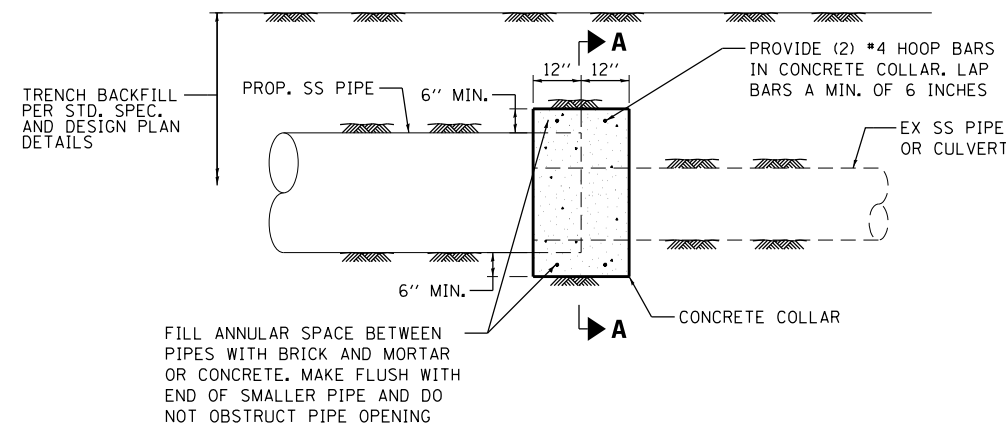
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
 INFORMATION SIGN**

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

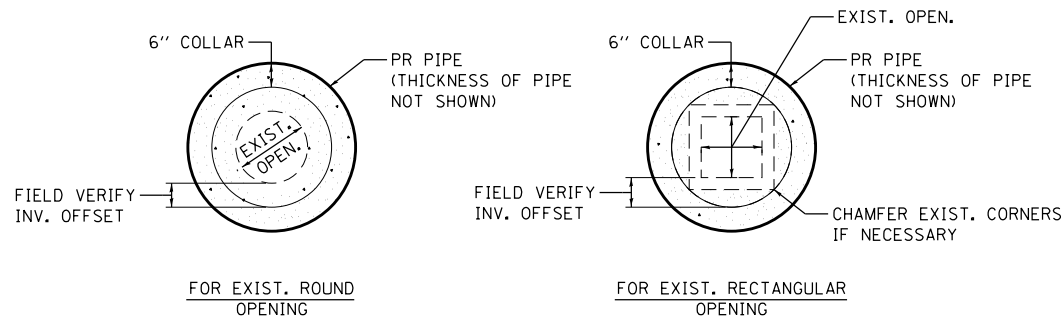
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TC-22			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



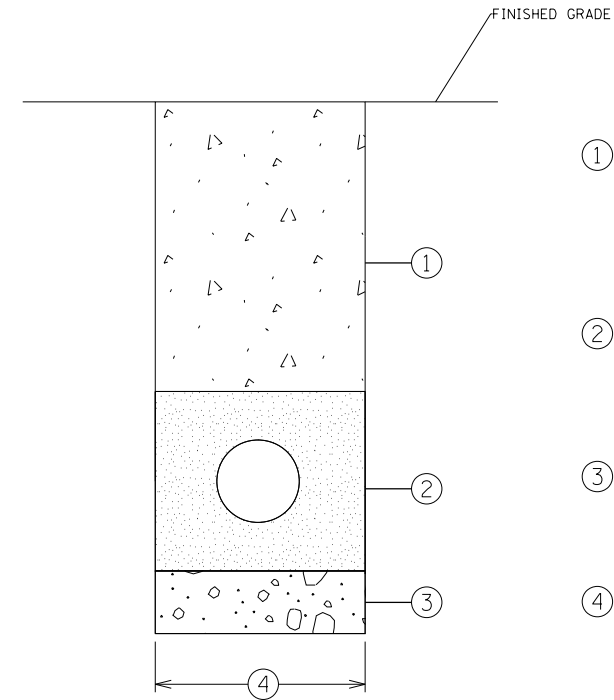
FILL ANNULAR SPACE BETWEEN PIPES WITH BRICK AND MORTAR OR CONCRETE. MAKE FLUSH WITH END OF SMALLER PIPE AND DO NOT OBSTRUCT PIPE OPENING

CONCRETE SADDLE
N.T.S.

- LARGER PIPE SHALL OVERLAP EXIST. BY 12" MIN.
- SADDLE DIA. SHALL EXTEND MIN. OF 6" BEYOND OUTSIDE DIA. OF LARGER PIPE



SECTION A-A
N.T.S.

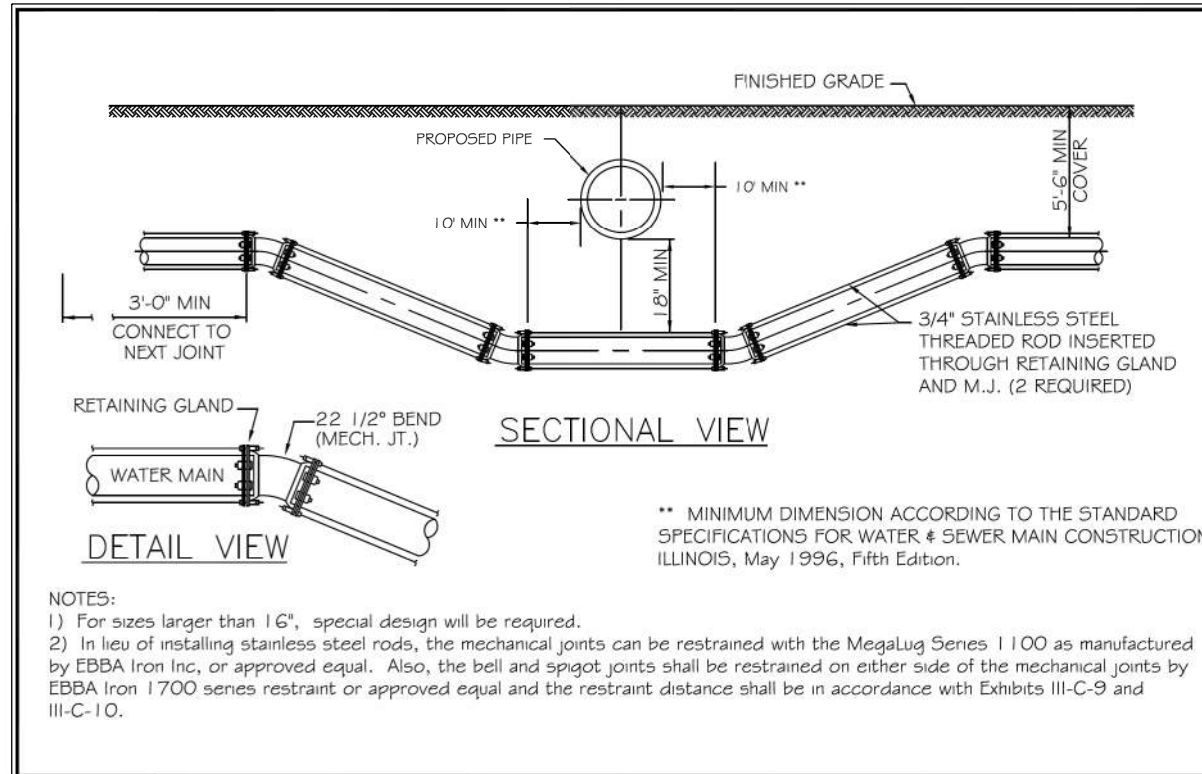


- 1 SELECT TRENCH BACKFILL GRANULAR TRENCH BACKFILL TO BE USED UNDER EXISTING OR PROPOSED PAVEMENT, CURB AND GUTTER, SIDEWALK OR WITHIN 2' OF ANY EXISTING/PROPOSED CURB AND GUTTER OR SIDEWALK, SHALL BE MECHANICALLY COMPACTED CA-6, GRADE #9. PAID FOR PER CU YD AS TRENCH BACKFILL.
- 2 PIPE BEDDING, HAUNCHING STONE & INITIAL TRENCH BACKFILL CA-11 WASHED STONE FROM 6" BELOW TO 12" ABOVE TOP OF PIPE. INCLUDED IN THE COST OF THE WATER MAIN BEING INSTALLED.
- 3 UNSUITABLE MATERIALS IF ENCOUNTERED - SHALL BE REMOVED WHERE DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE AND COMPACTED MATERIAL
- 4 TRENCH WIDTH WIDTH (MAX.) = 9" + O.D. + 9", WHEN TRENCH < 5FT WIDTH (MAX.) = 18" + O.D. + 18", WHEN TRENCH > 5FT
NOTE ALL CA-6 AND CA-11 MATERIAL TO BE IDOT APPROVED. NON-LIMESTONE. CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

WATER MAIN MINIMUM DEPTH OF COVER = 5.5 FT

PROPOSED SIGN PANELS

- D11-1 24x18 BIKE ROUTE
- D11-1c 24x18 TO DOWNTOWN
- M4-6 12x6 END
- M4-14 12x6 BEGIN

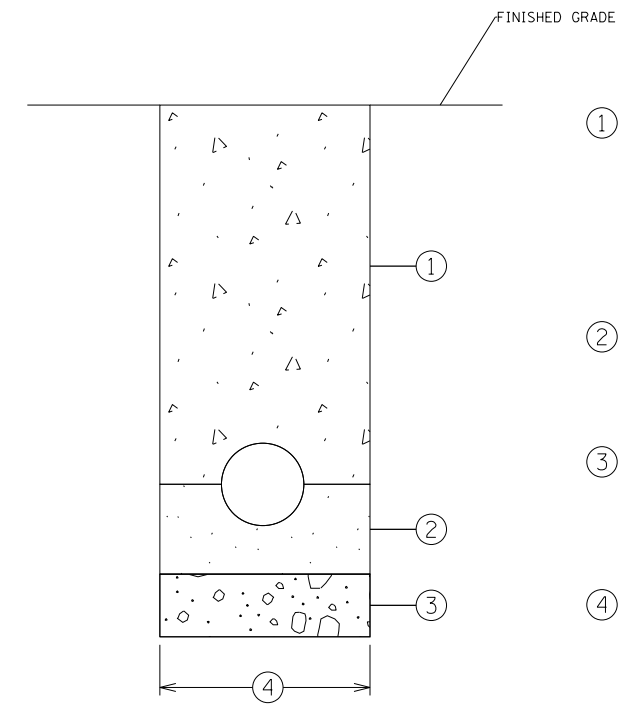


FORCE MAIN LOWERING

- NOTES:
- 1) For sizes larger than 16", special design will be required.
 - 2) In lieu of installing stainless steel rods, the mechanical joints can be restrained with the MegaLug Series 1100 as manufactured by EBBA Iron Inc, or approved equal. Also, the bell and spigot joints shall be restrained on either side of the mechanical joints by EBBA Iron 1700 series restraint or approved equal and the restraint distance shall be in accordance with Exhibits III-C-9 and III-C-10.

** MINIMUM DIMENSION ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION ILLINOIS, May 1996, Fifth Edition.

TYPICAL WATER MAIN TRENCH DETAIL



- 1 SELECT TRENCH BACKFILL GRANULAR TRENCH BACKFILL TO BE USED UNDER EXISTING OR PROPOSED PAVEMENT, CURB AND GUTTER, SIDEWALK OR WITHIN 2' OF ANY EXISTING/PROPOSED CURB AND GUTTER OR SIDEWALK, SHALL BE MECHANICALLY COMPACTED CA-6, GRADE #9. PAID FOR PER CU YD AS TRENCH BACKFILL.
- 2 PIPE BEDDING & INITIAL TRENCH BACKFILL #6 WASHED STONE FROM 6" BELOW TO SPRING LINE OF PIPE. INCLUDED IN THE COST OF THE STORM SEWER BEING INSTALLED.
- 3 UNSUITABLE MATERIALS IF ENCOUNTERED - SHALL BE REMOVED WHERE DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE AND COMPACTED MATERIAL
- 4 TRENCH WIDTH WIDTH (MAX.) = 9" + O.D. + 9", WHEN TRENCH < 5FT WIDTH (MAX.) = 18" + O.D. + 18", WHEN TRENCH > 5FT

NOTE ALL CA-6 MATERIAL TO BE IDOT APPROVED. NON-LIMESTONE. CRUSHED GRAVEL, CRUSHED STONE OR CRUSHED CONCRETE.

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/25/2018 12:07:12 PM
FILE NAME: 033-sht-details01.dgn
PLOT DRIVER: IL.pdf, bw, a1, r1, f1, q
PEN TABLE: plot.tbl

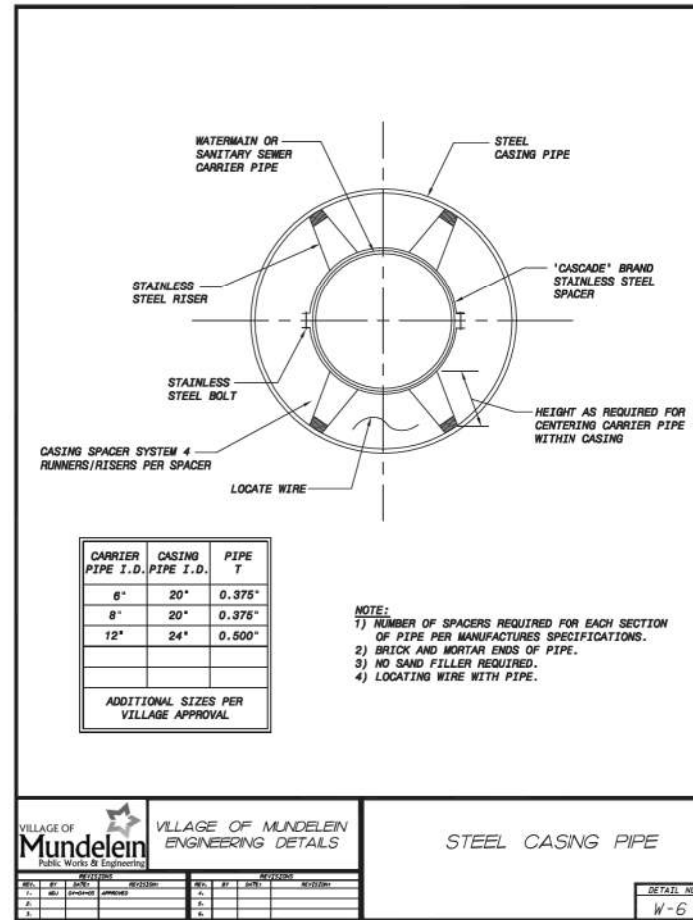
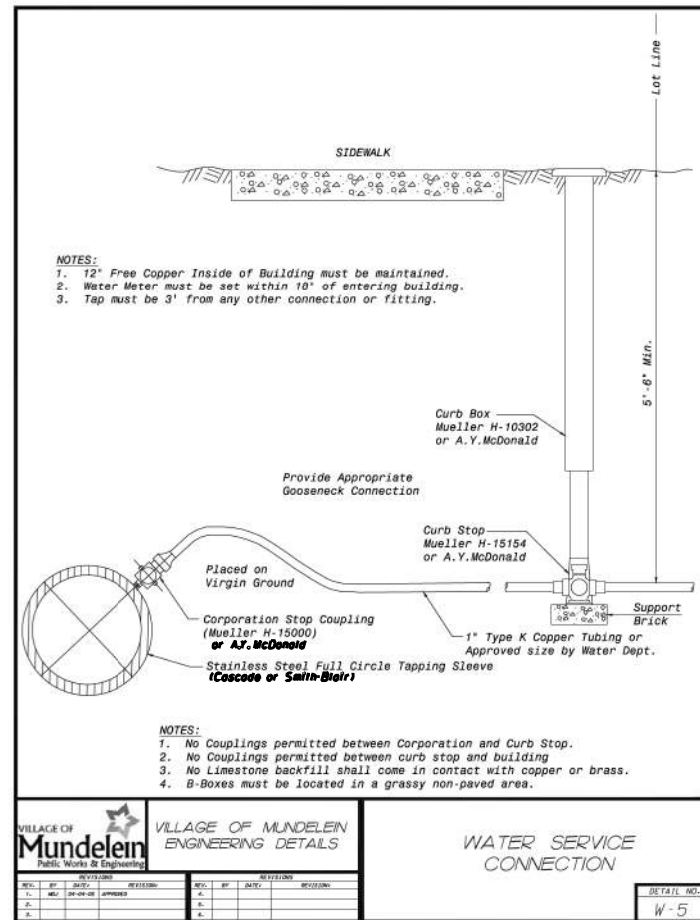
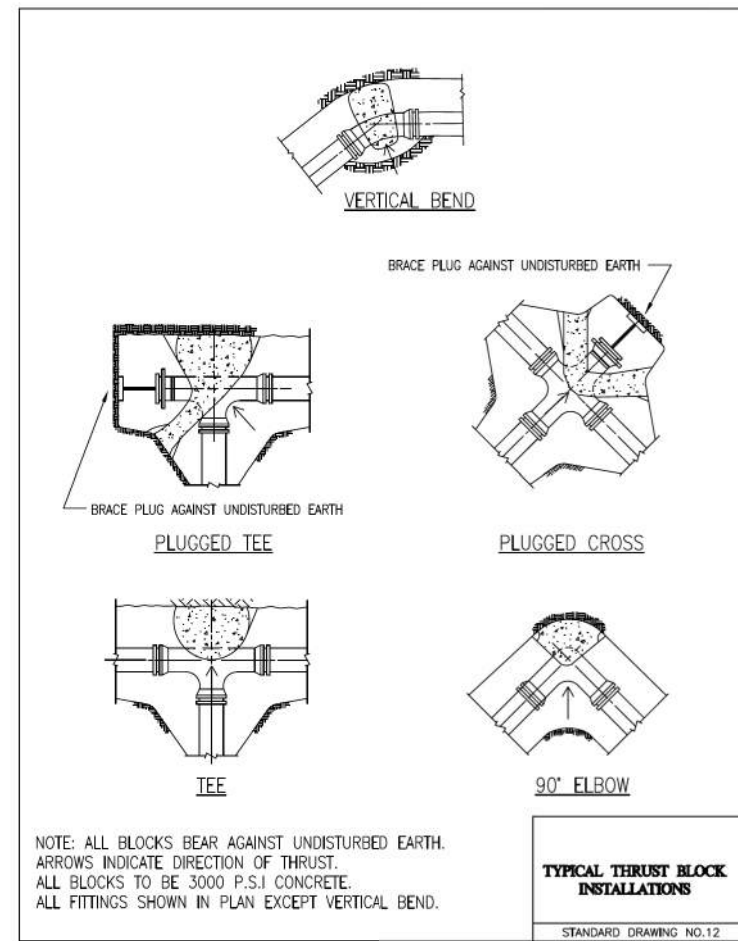
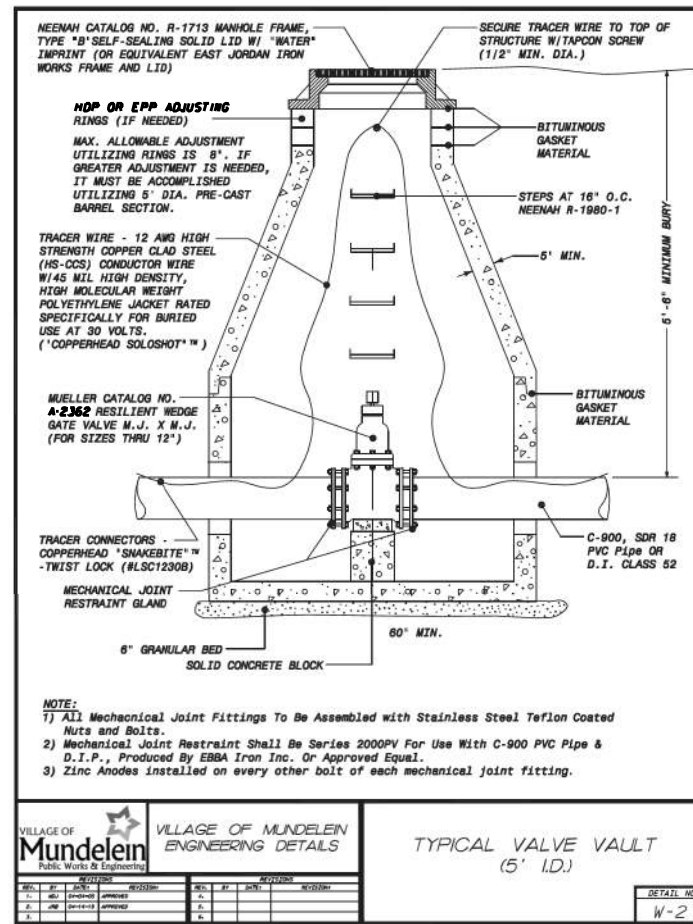
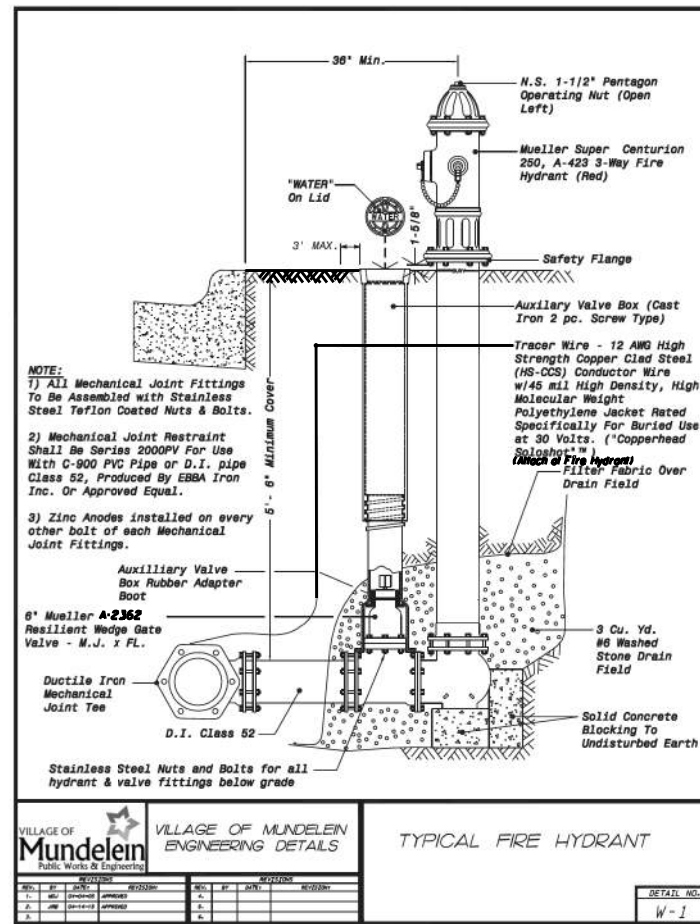


USER NAME = dstencz	DESIGNED - JCH	REVISED -
FILE NAME = 033-sht-details01.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 176 (W MAPLE AVE) BICYCLE PATH		1238	15-00101-00-BT	LAKE	87	59
SCALE: N.T.S.		SHEET NO. 5 OF 6 SHEETS		STA.	TO STA.	

CONTRACT NO. 61E17		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
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COMPANY NAME: HRGreen.com
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/25/2018 12:07:21 PM
FILE NAME: 033-sht-details02.dgn
PLOT DRIVER: IL.pdf.plt
PEN TABLE: plc.tbl

HRGreen
Illinois Professional Design Firm
#184-001322

USER NAME = dstencz	DESIGNED - JCH	REVISED -
FILE NAME = 033-sht-details02.dgn	DRAWN - DMS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JJS	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.	SHEET NO. 6 OF 6 SHEETS	STA. TO STA.
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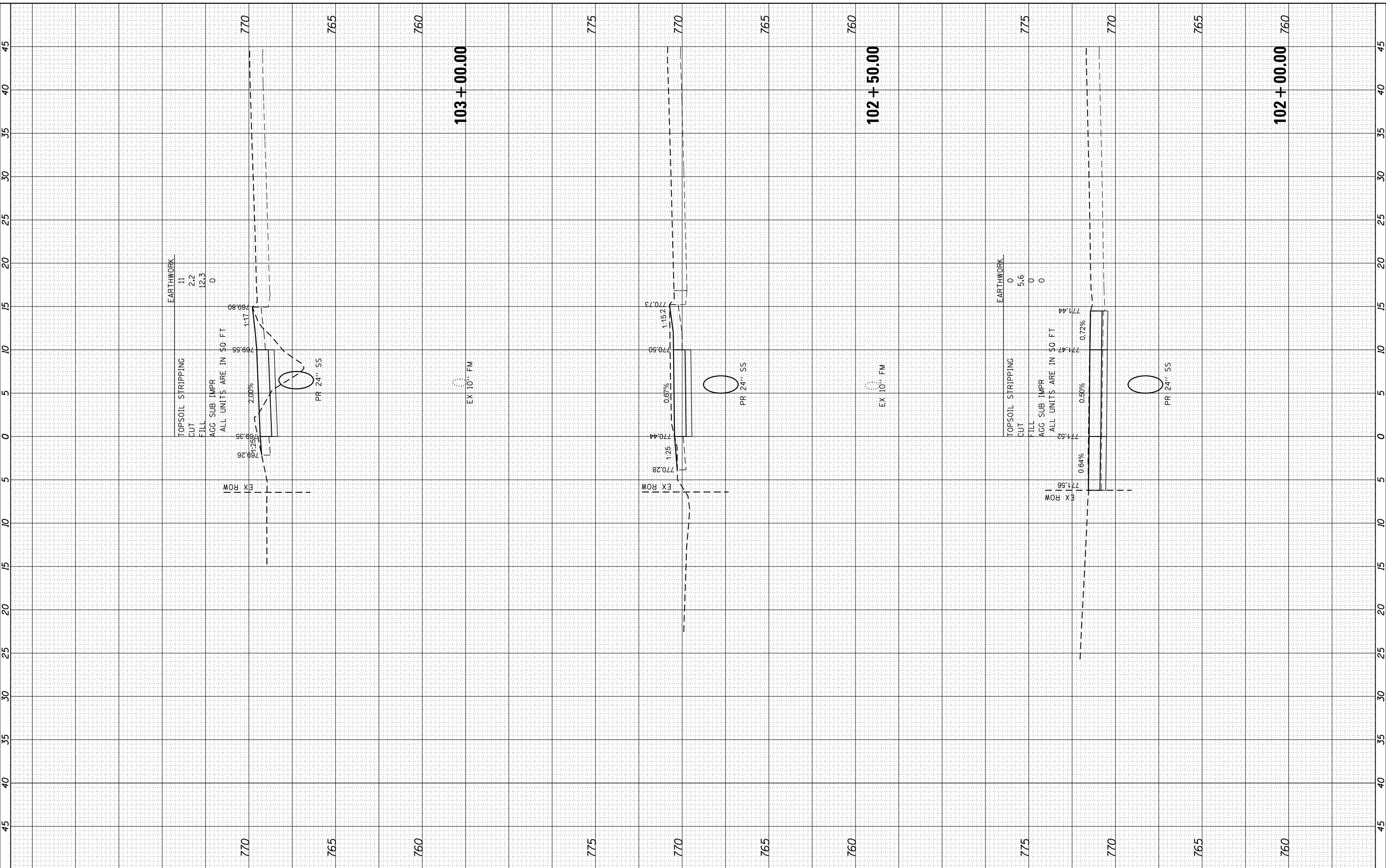
CONSTRUCTION DETAILS
IL 176 (W MAPLE AVE) BICYCLE PATH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	60
CONTRACT NO.			61E17	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

HRG PROJECT NO: 170033
 FILE NAME: 035-011-KSP007.dgn
 PLOT DRIVER: il_caf_wg.plt
 PEN TABLE: p01.tbl



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 #184-001322

USER NAME	- dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

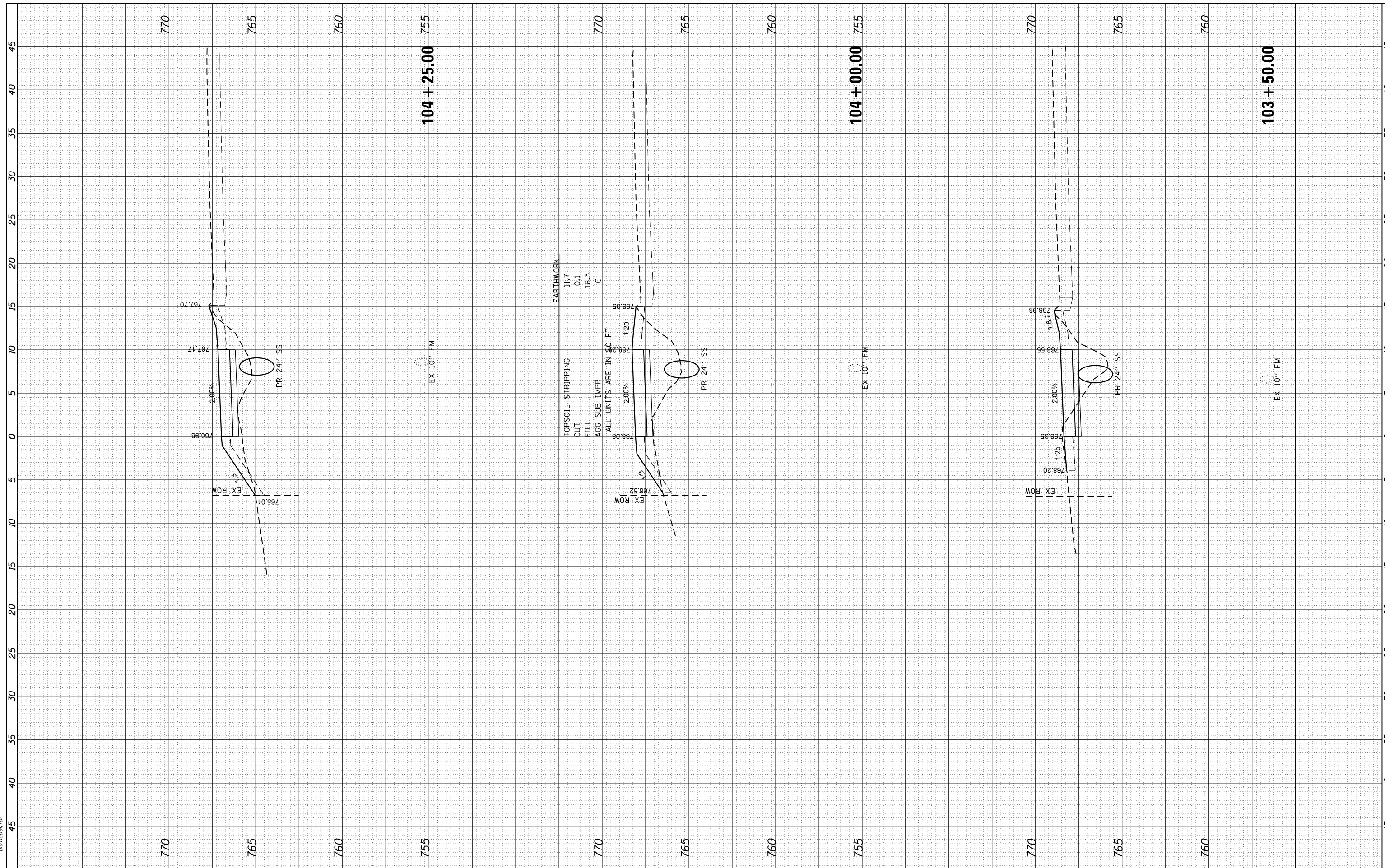
CROSS SECTIONS
IL 176 (W MAPLE AVE) BICYCLE PATH
 SCALE: 5H:2.5V SHEET 2 OF 27 SHEETS STA. 102+00.00 TO STA.103+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	62
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO.: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_dcf.plt
 PEN TABLE: p01.tbl



HRGreen
 Illinois Professional Design Firm
 #184-001322

USER NAME	- dstancz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

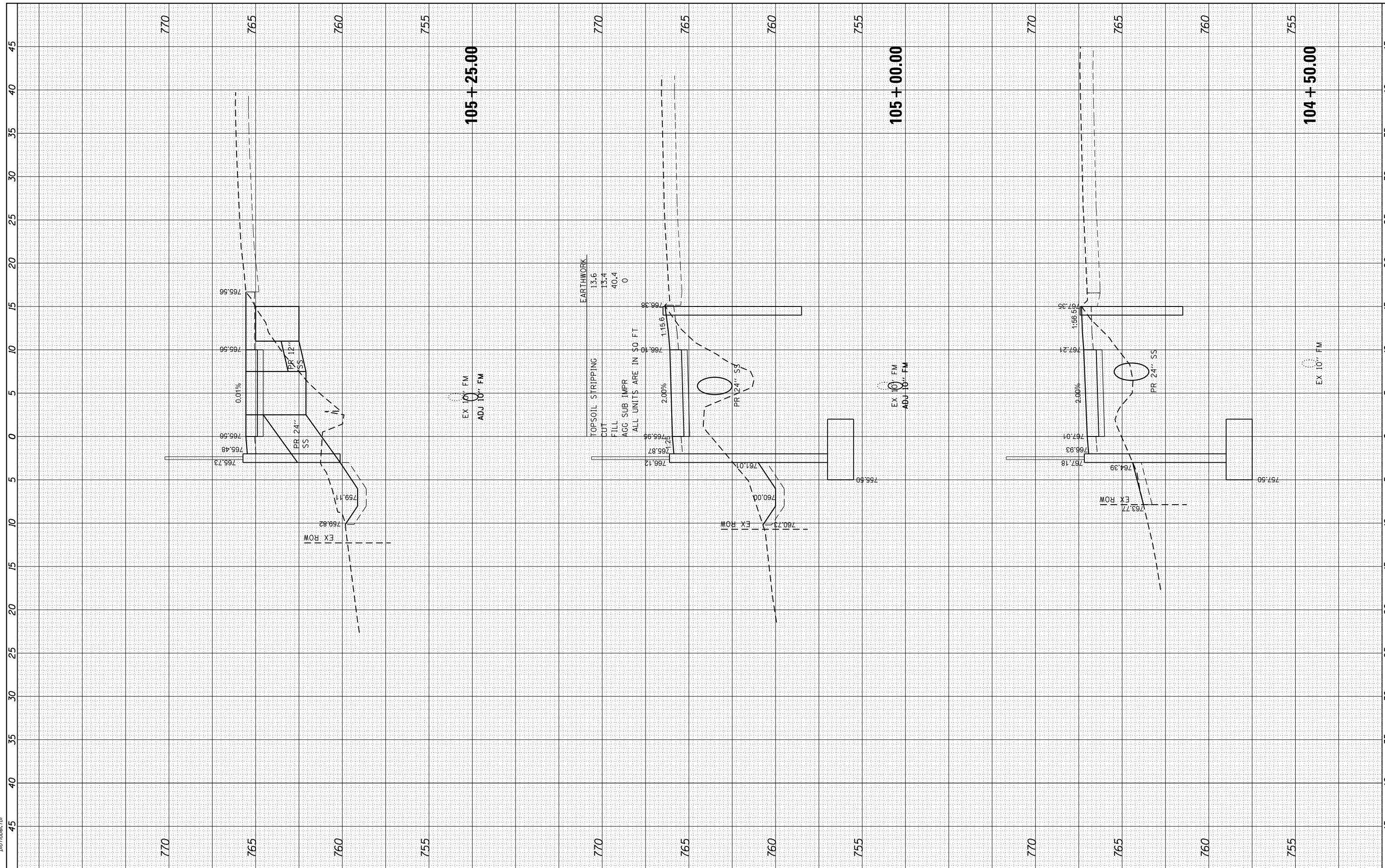
SCALE: 5Hx2.5V SHEET 3 OF 27 SHEETS STA. 103+50.00 TO STA. 104+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	63
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

HRG PROJECT NO.: 170033
 FILE NAME: 0315-011-KSP007h.dgn
 PLOT DRIVER: il_pctf_awr.ctb
 PEN TABLE: p01.tbl.tbl



HRGreen
 Illinois Professional Design Firm
 #184-001322

USER NAME	- dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

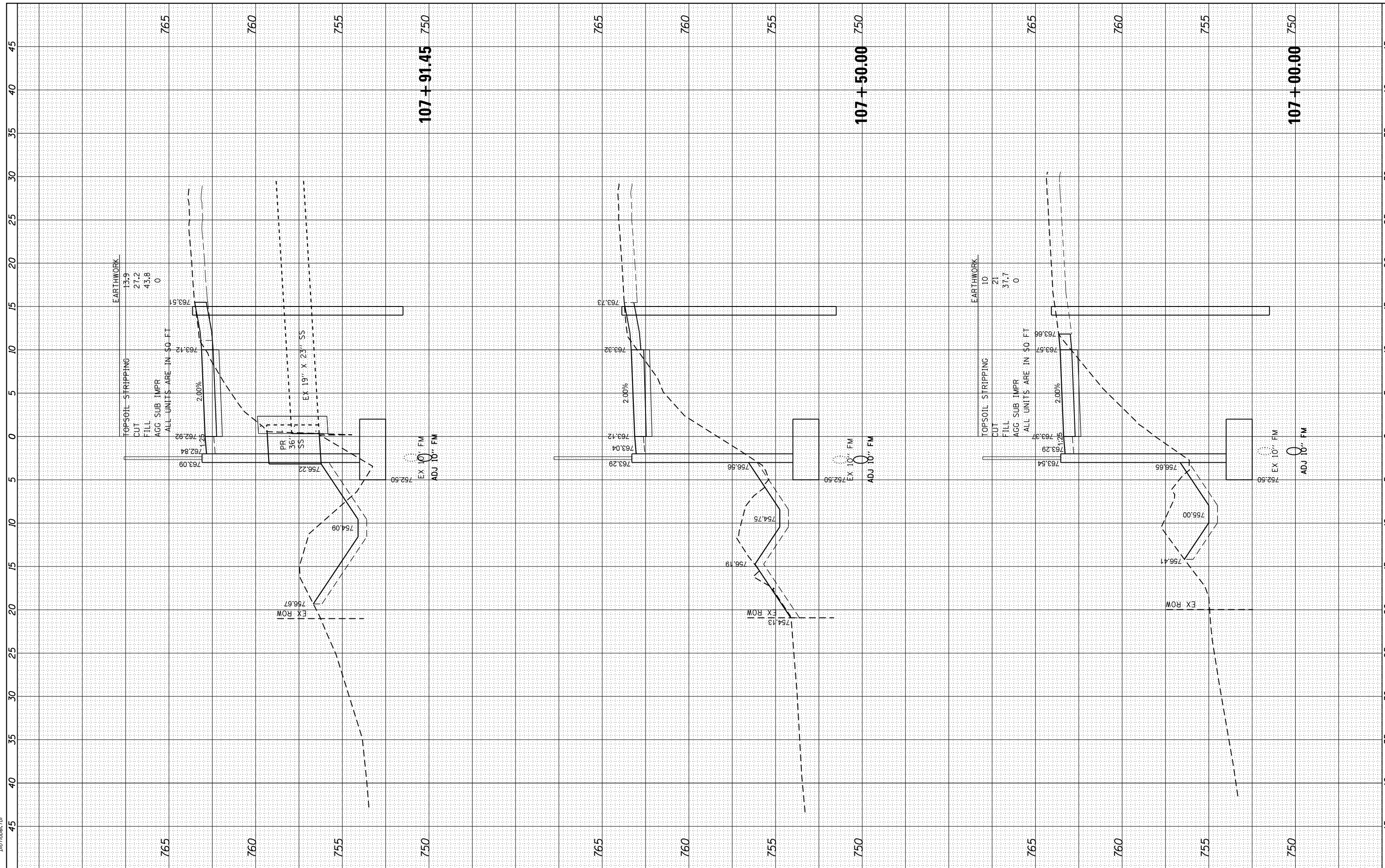
SCALE: 5H:2.5V SHEET 4 OF 27 SHEETS STA. 104+50.00 TO STA. 105+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	64
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO.: 170033
 FILE NAME: 035-011-KSP001.dgn
 PLOT DRIVER: il_plot_driver.ctb
 PEN TABLE: p01.tbl



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USER NAME	- dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

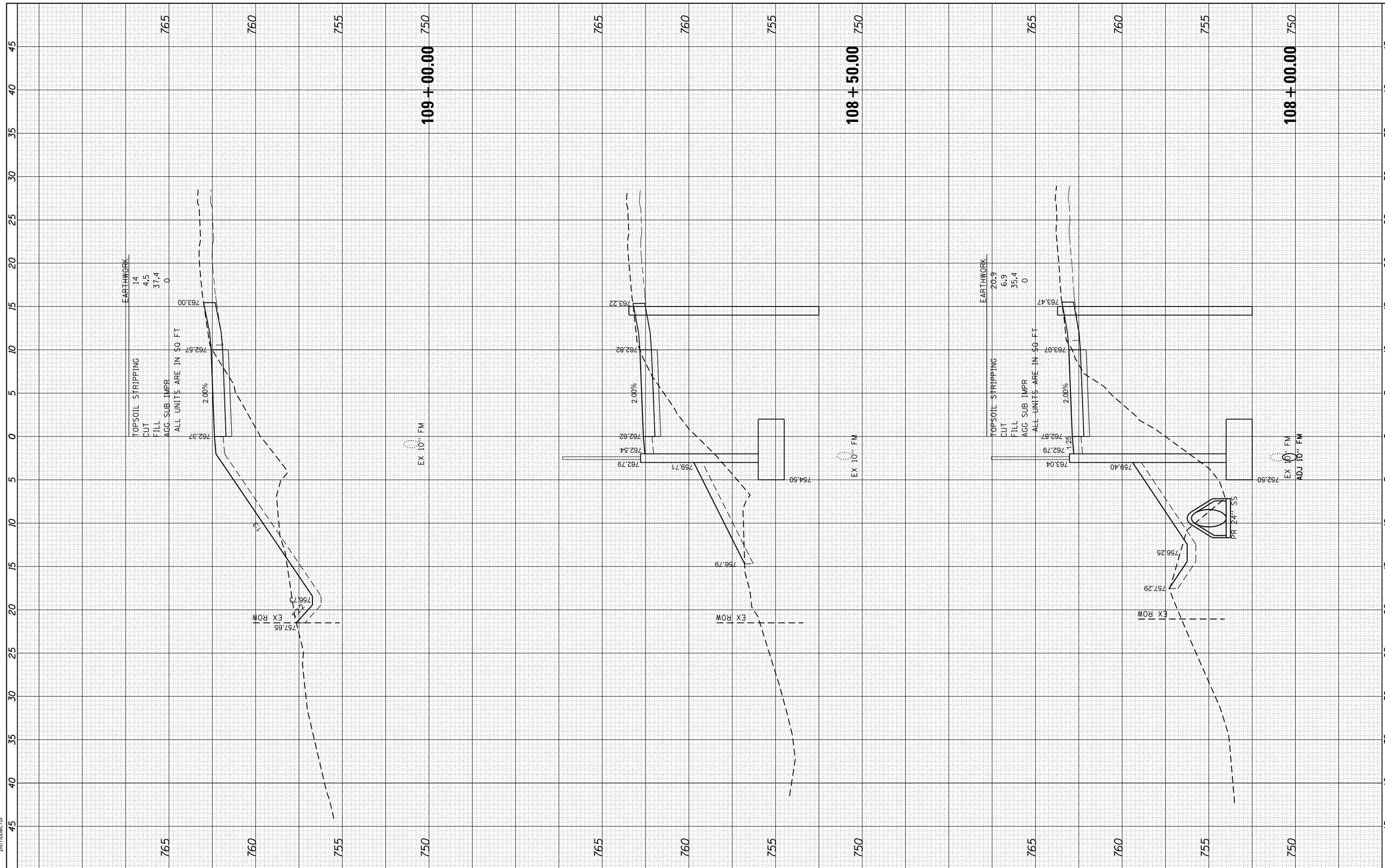
SCALE: 5H:2.5V SHEET 6 OF 27 SHEETS STA. 107+00.00 TO STA. 107+91.45

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	66
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK AREAS CHECKED	
DATE	

ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK AREAS CHECKED	
DATE	

HRG PROJECT NO: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_pctf_aw.ctb
 PEN TABLE: p01.tbl



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USER NAME	- dstancz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

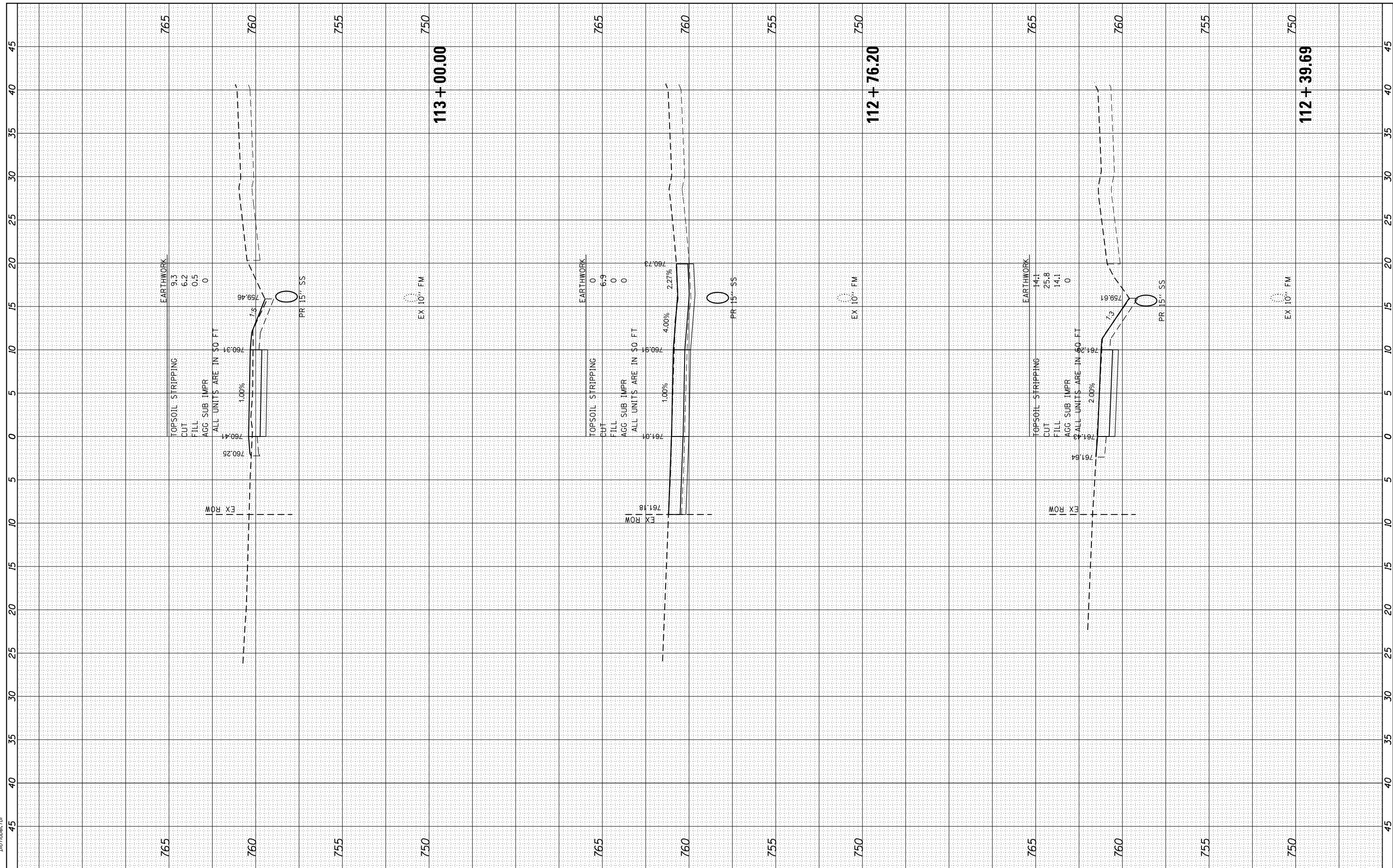
SCALE: 5H:2.5V SHEET 7 OF 27 SHEETS STA. 108+00.00 TO STA. 109+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	67
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO.: 170033
 FILE NAME: 035-rpt-KSP07h.dgn
 PLOT DRIVER: ll_dcf.plt
 PEN TABLE: p01.tbl



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 #184-001322

USER NAME	= dstanz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

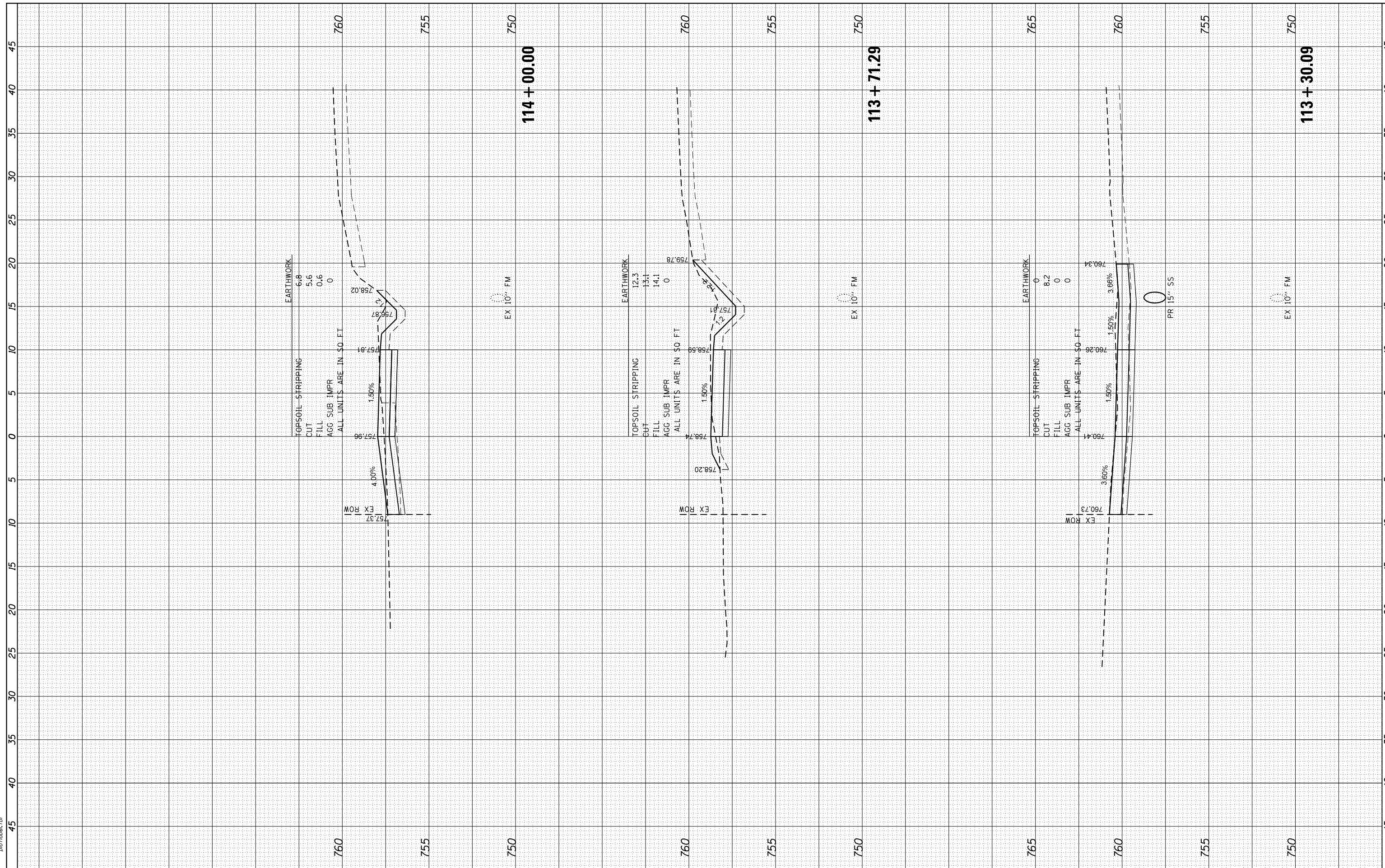
SCALE: 5H:2.5V SHEET 11 OF 27 SHEETS STA. 112+39.69 TO STA. 113+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	71
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		
	CHECKED		

HRG PROJECT NO.: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_cad.ctb
 PEN TABLE: p01.tbl

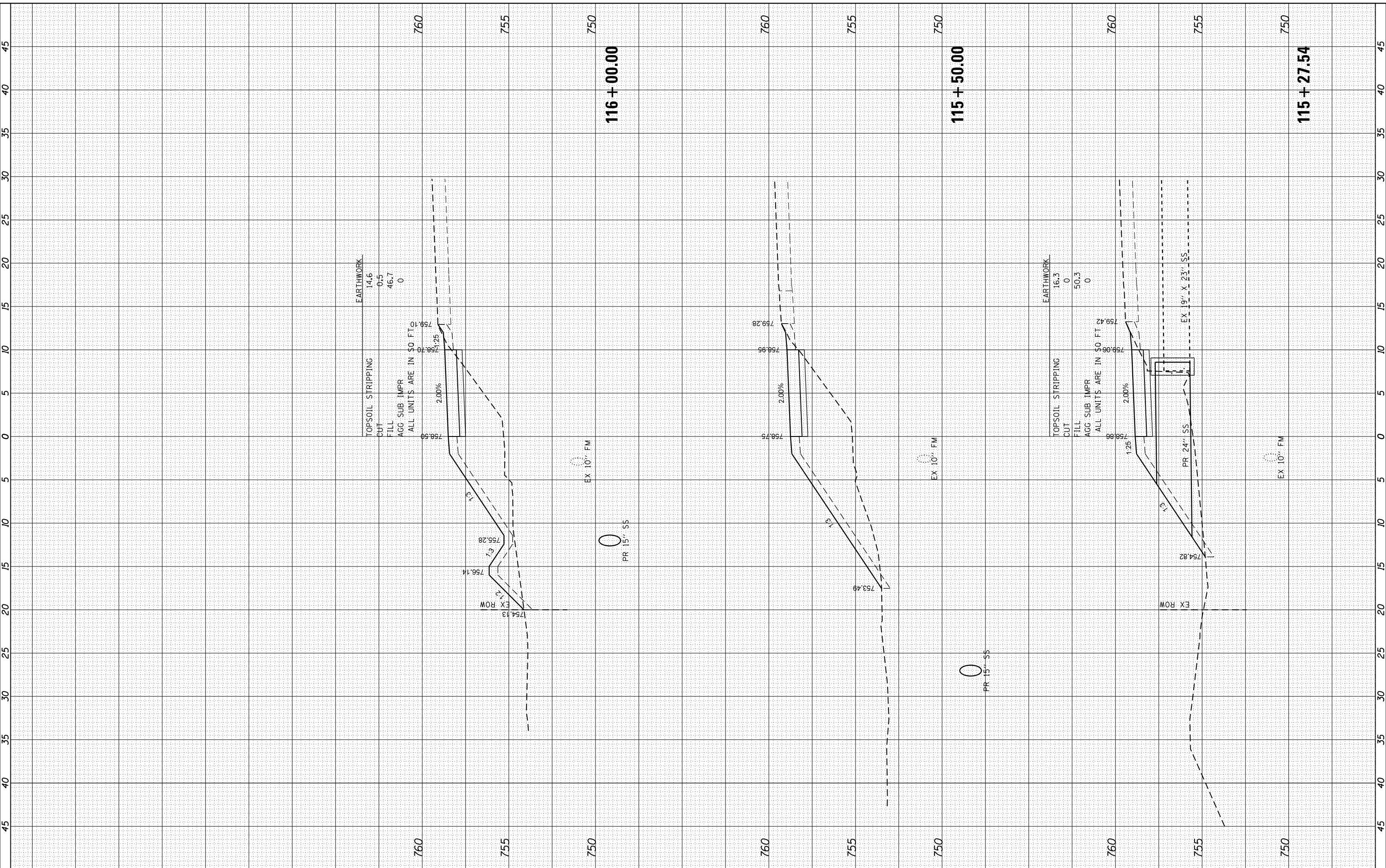


	USER NAME = dstenz PLOT SCALE = 5Hx2.5V PLOT DATE = 5/25/2018	DESIGNED - JCH DRAWN - DMS CHECKED - JJS DATE - 5/25/18	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 176 (W MAPLE AVE) BICYCLE PATH			SCALE: 5Hx2.5V SHEET 12 OF 27 SHEETS STA. 113+30.09 TO STA. 114+00.00	F.A.U. RTE. 1238 SECTION 15-00101-00-BT COUNTY LAKE CONTRACT NO. 61E17	TOTAL SHEETS 87 SHEET NO. 72	ILLINOIS FED. AID PROJECT
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

HRG PROJECT NO.: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_caf_rw.plt
 PEN TABLE: p01.tbl



USER NAME	- dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISIONS	NO.	DESCRIPTION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

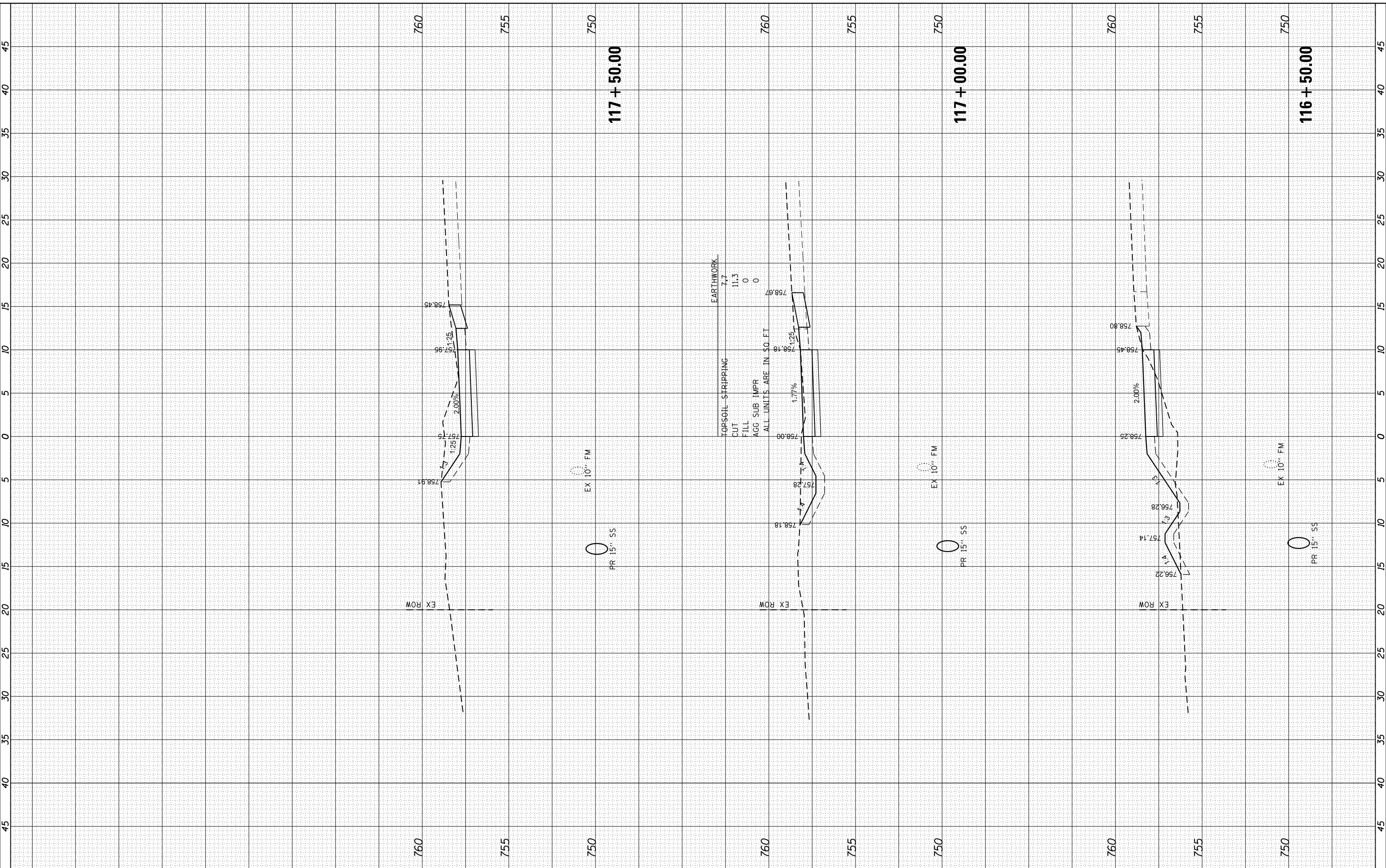
CROSS SECTIONS	
IL 176 (W MAPLE AVE) BICYCLE PATH	
SCALE: 5H:2.5V	SHEET 14 OF 27 SHEETS
STA. 115+27.54 TO STA. 116+00.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	74
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_dcf.plt
 PEN TABLE: p01.tbl



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 Illinois Professional Design Firm
 #184-001322

USER NAME	- dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

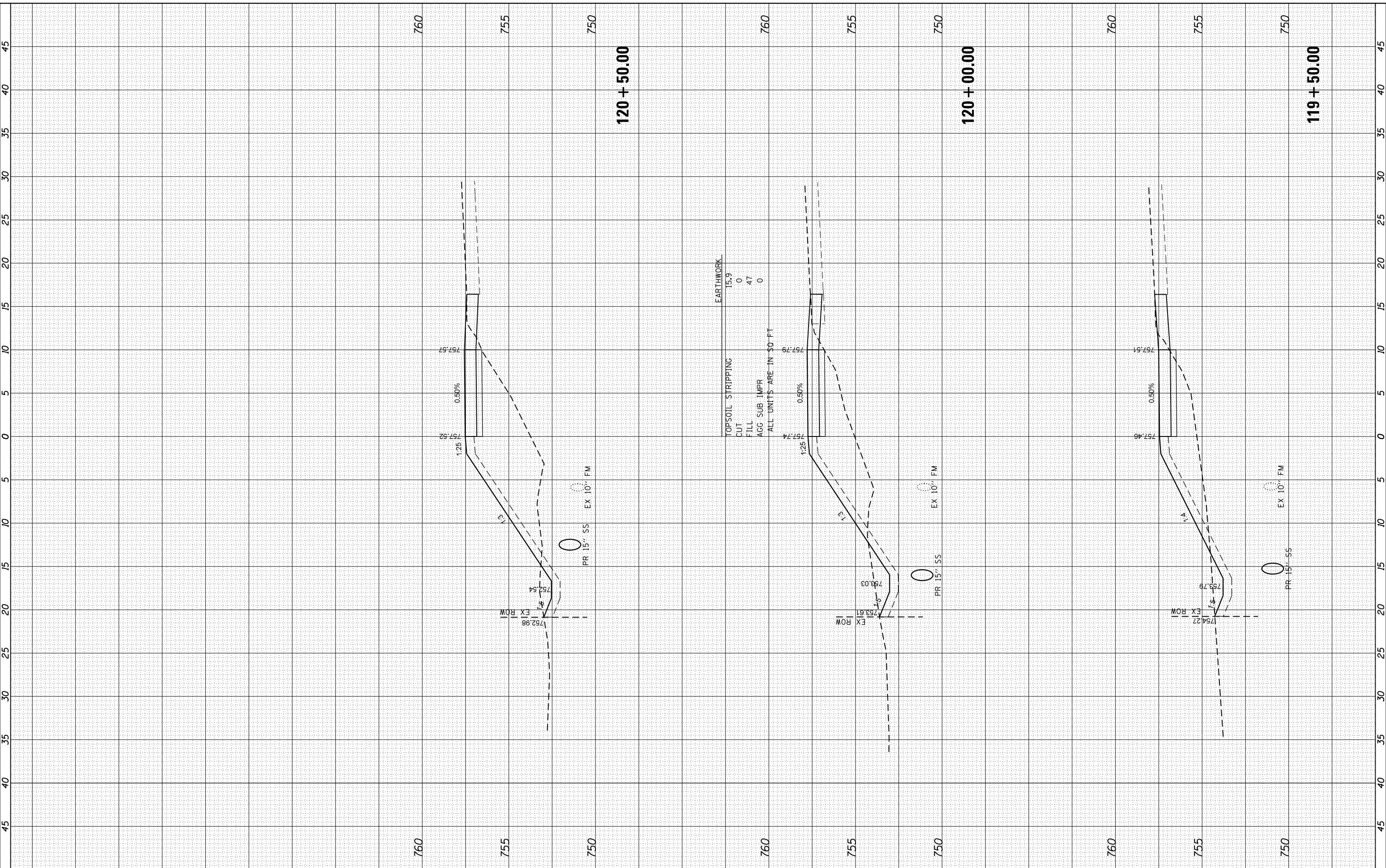
CROSS SECTIONS	
IL 176 (W MAPLE AVE) BICYCLE PATH	
SCALE: 5Hx2.5V	SHEET 15 OF 27 SHEETS
STA. 116+50.00 TO STA. 117+50.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	75
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO: 170033
 FILE NAME: 0315-011-KSP007.dgn
 PLOT DRIVER: il_dcf.plt
 PEN TABLE: p01.tbl



EARTHWORK

TOPSOIL STRIPPING	15.9
CUT	0
FILL	47
AGG SUB IMPR	0

ALL UNITS ARE IN SQ FT

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USER NAME	= dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
IL 176 (W MAPLE AVE) BICYCLE PATH

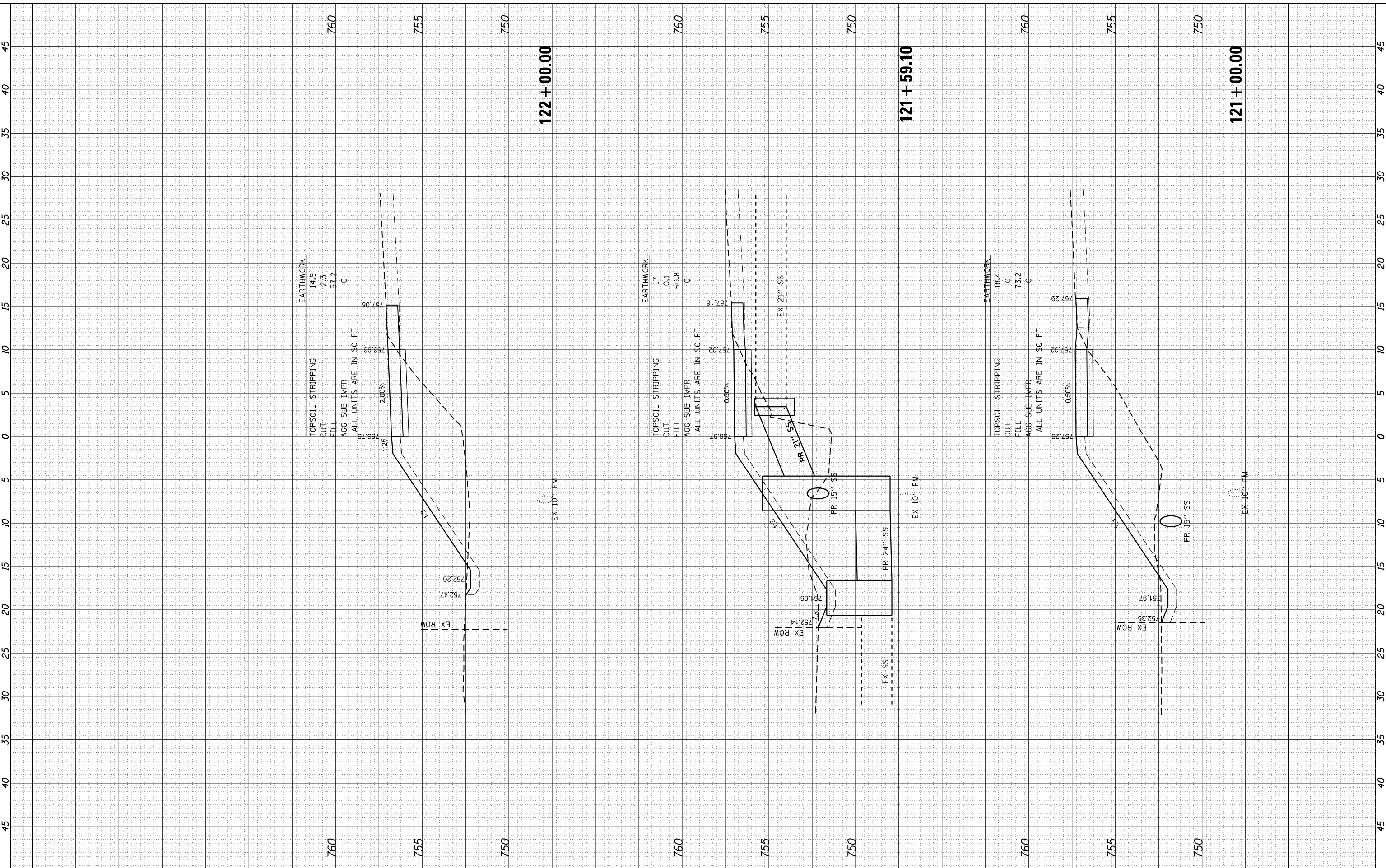
SCALE: 5H:2.5V SHEET 17 OF 27 SHEETS STA. 119+50.00 TO STA. 120+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	77
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO: 170033
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 PLOT DRIVER: ll_dcf.plt
 PEN TABLE: p10.tbl



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 Illinois Professional Design Firm
 #184-001322

USER NAME	- dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

PLOT SCALE	- 5/8"=2.5'
PLOT DATE	- 5/25/2018

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

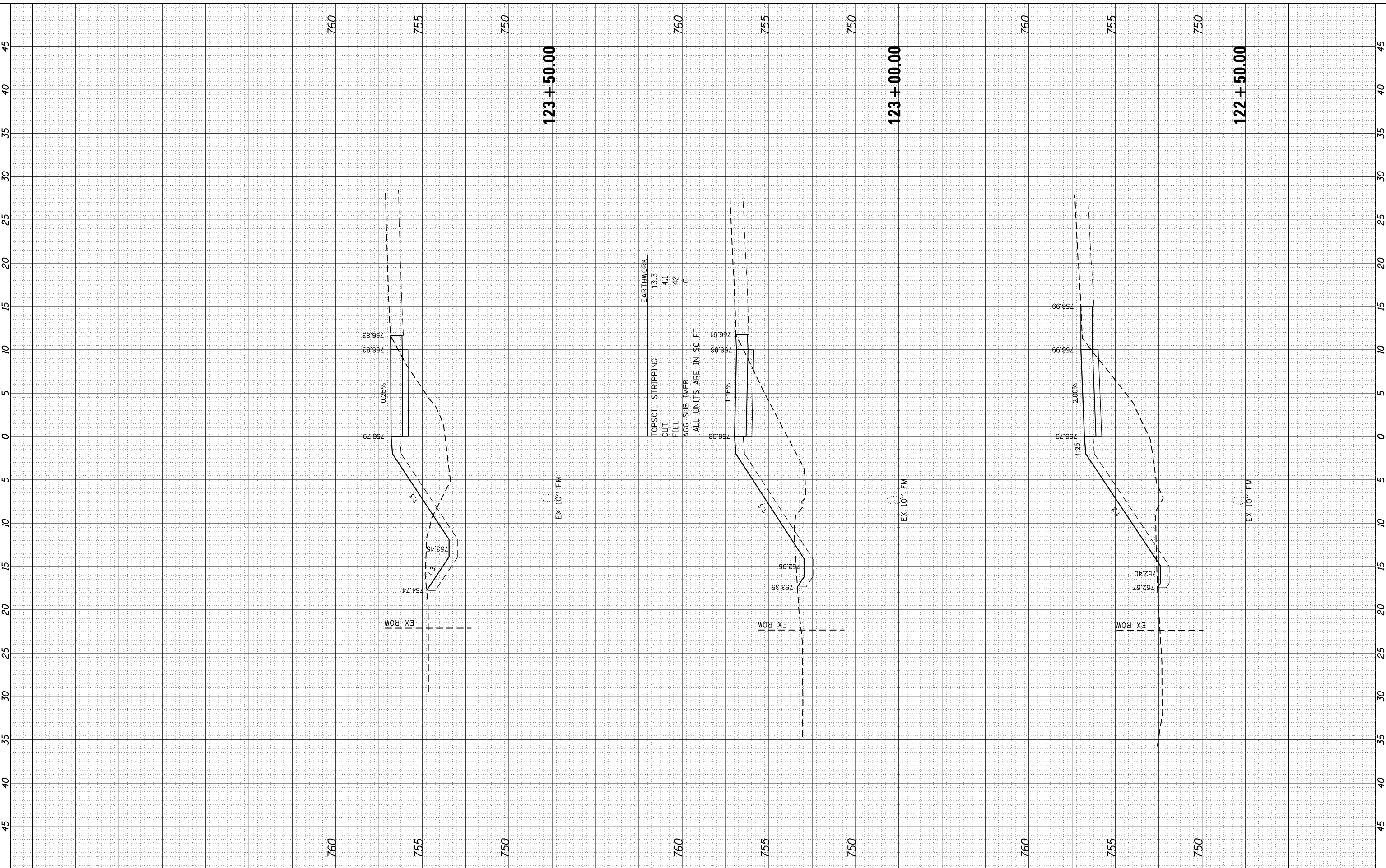
SCALE: 5/8"=2.5' SHEET 18 OF 27 SHEETS STA. 121+00.00 TO STA. 122+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	78
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO.: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_dcf.plt
 PEN TABLE: p01.tbl



HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME	= dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

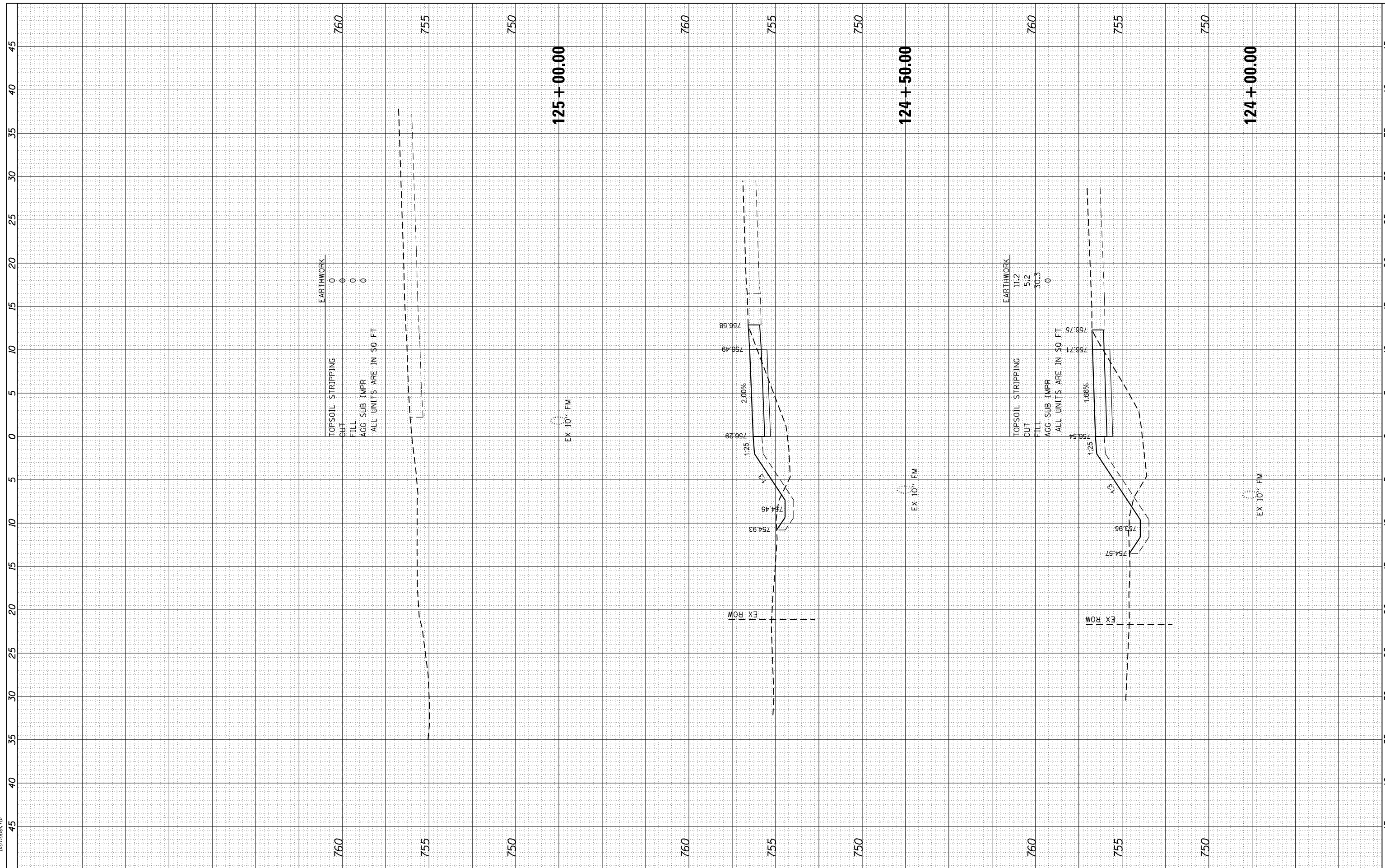
SCALE: 5H:2.5V SHEET 19 OF 27 SHEETS STA. 122+50.00 TO STA. 123+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	79
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO.: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_caf_rw.plt
 PEN TABLE: p01.tbl



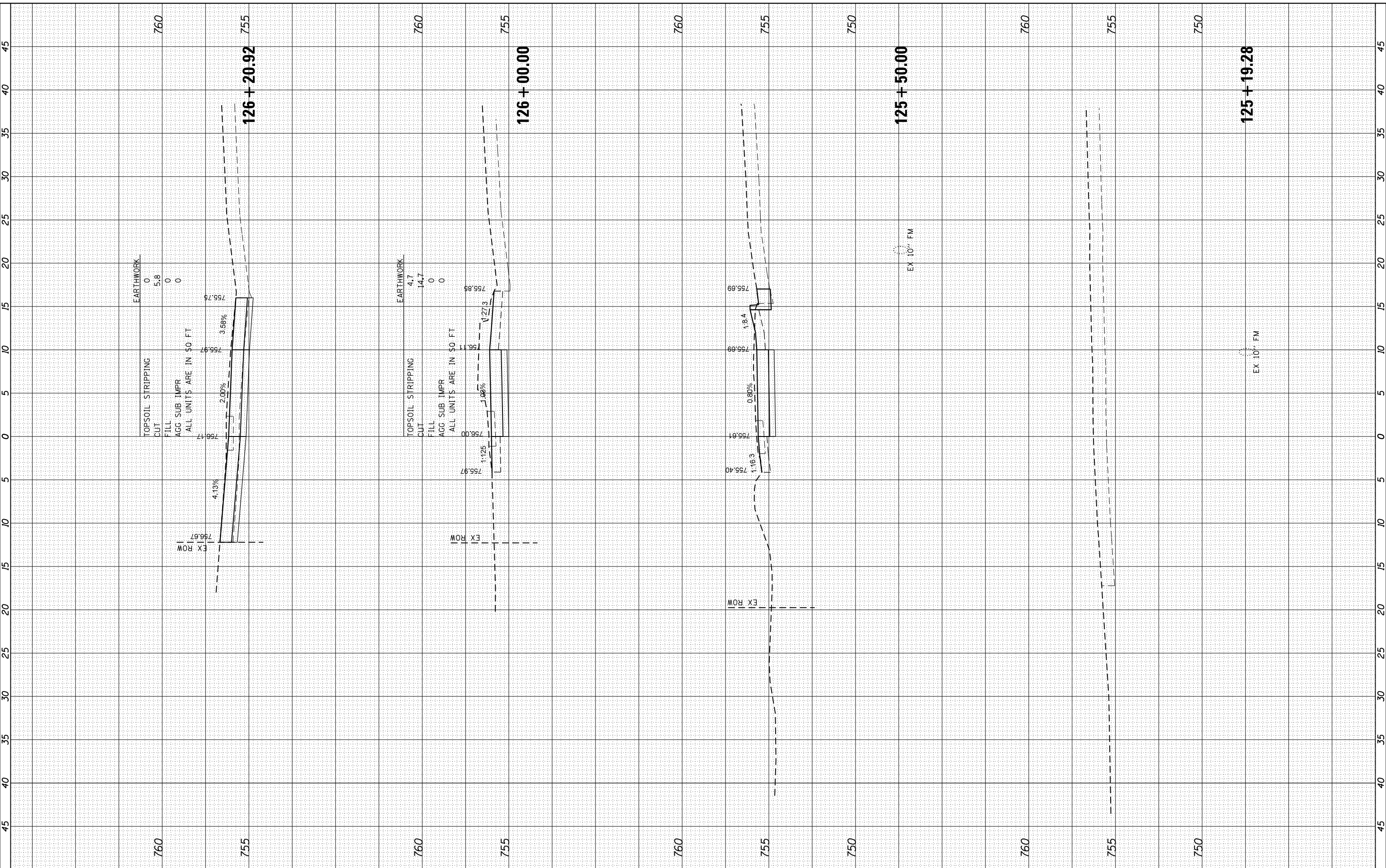
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TOPSOIL STRIPPING												
CUT												
FILL												
AGG SUB IMPR												
ALL UNITS ARE IN SQ FT												
EARTHWORK												
0												
0												
0												
0												

760	760	755	750	125 + 00.00	760	755	750	124 + 50.00	760	755	750	124 + 00.00
TOPSOIL STRIPPING												
CUT												
FILL												
AGG SUB IMPR												
ALL UNITS ARE IN SQ FT												
EARTHWORK												
11.2												
5.2												
30.3												
0												

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

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

HRG PROJECT NO.: 170033
 FILE NAME: 035-rpt-KSP007.dgn
 PLOT DRIVER: ll_caf_fm.plt
 PEN TABLE: p01.tbl



HRGreen
 Illinois Professional Design Firm
 #184-001322

USER NAME - dstencz	DESIGNED - JCH	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE - 5Hx2.5V	CHECKED - JJS	REVISED -
PLOT DATE - 5/25/2018	DATE - 5/25/18	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

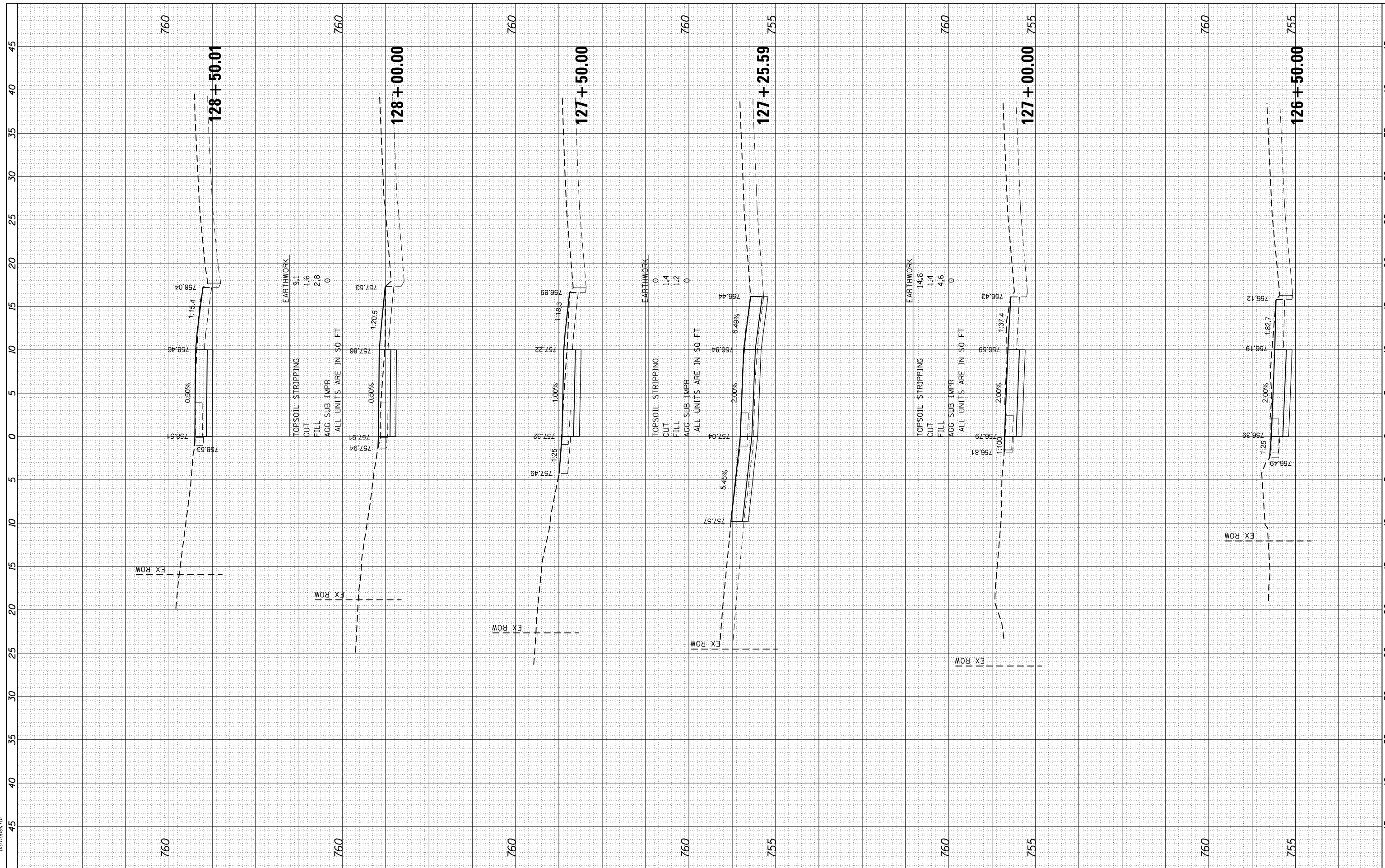
SCALE: 5Hx2.5V SHEET 21 OF 27 SHEETS STA. 125+19.28 TO STA. 126+20.92

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	81
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

HRG PROJECT NO: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_cad.ctb
 PEN TABLE: p01.tbl



HRGreen
 Illinois Professional Design Firm
 #184-001322

USER NAME	= dstancz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 176 (W MAPLE AVE) BICYCLE PATH**

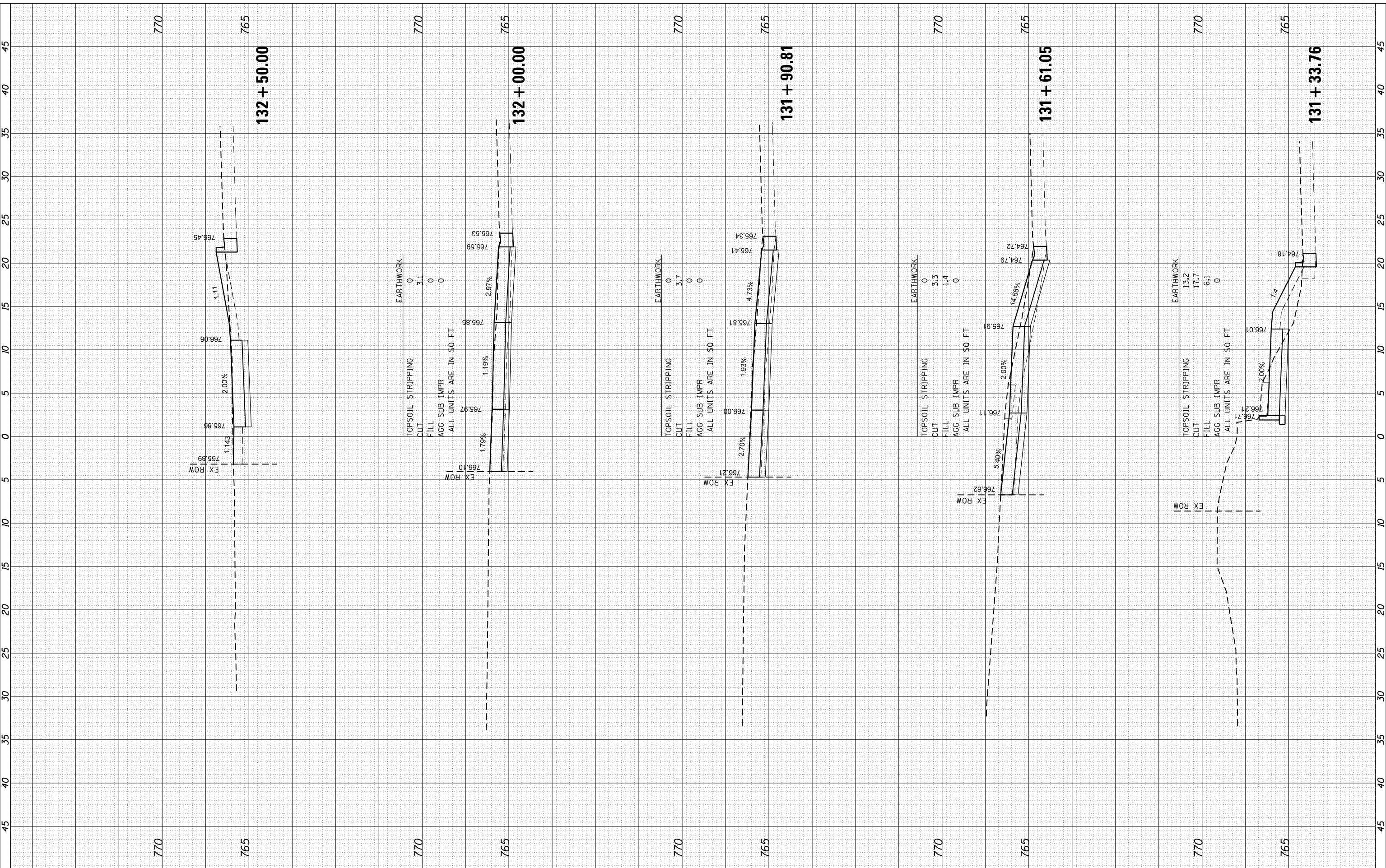
SCALE: 5H:2.5V SHEET 22 OF 27 SHEETS STA. 126+50.00 TO STA. 128+50.01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	82
CONTRACT NO.			61E17	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

HRG PROJECT NO.: 170033
 FILE NAME: 0315-011-KSP001.dgn
 PLOT DRIVER: il_rptf_wk_rptf.ctb
 PEN TABLE: p01.tbl



USER NAME	- dstencz
DESIGNED	- JCH
DRAWN	- DMS
CHECKED	- JJS
DATE	- 5/25/18

REVISIONS	NO.	DESCRIPTION
REVISIONS	NO.	DESCRIPTION
REVISIONS	NO.	DESCRIPTION
REVISIONS	NO.	DESCRIPTION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
IL 176 (W MAPLE AVE) BICYCLE PATH
 SCALE: 5Hx2.5V SHEET 24 OF 27 SHEETS STA. 131+33.76 TO STA. 132+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	15-00101-00-BT	LAKE	87	84
CONTRACT NO.			61E17	

