

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

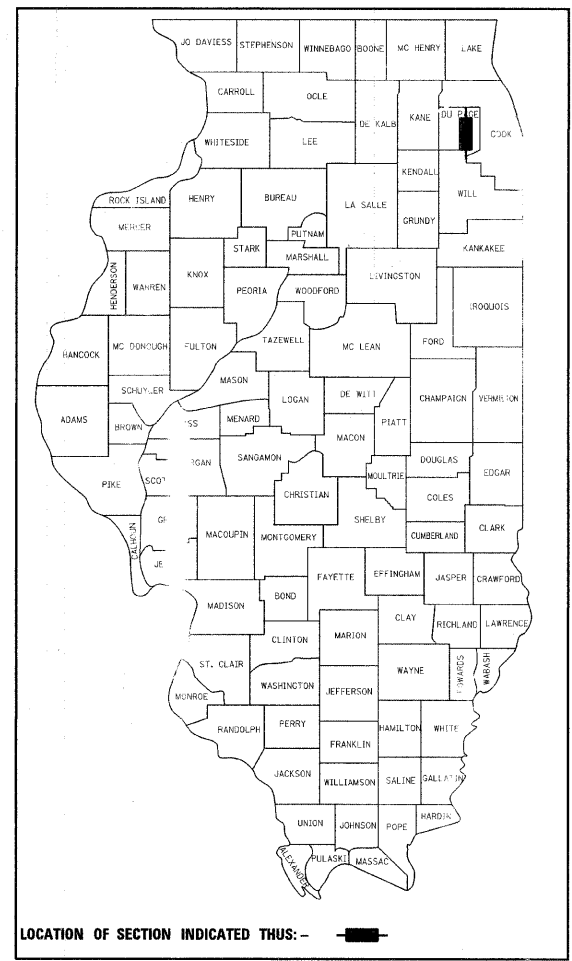
**PROPOSED  
FEDERAL AID PROJECT**

**HERITAGE BIKEWAY  
TIMBER TRAILS ROAD TO WOODWARD AVENUE  
SECTION: 06-00055-00-BT  
PROJECT NO.: M-CMM-9003 (154)  
JOB NO: C-91-171-09  
VILLAGE OF WOODRIDGE  
DuPAGE COUNTY**

**INDEX OF SHEETS**

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**HIGHWAY STANDARDS, SEE SHEET NO. 2**

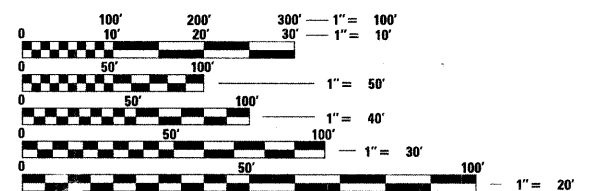


**TRAFFIC DATA**

ADT (2030) = 200 CYCLISTS  
POSTED SPEED = 20 MPH

**PROJECT LENGTH**

SEGMENT A = 241.95 FEET
SEGMENT B = 190.15 FEET
SEGMENT C = 895.47 FEET
TOTAL = 1,327.57 FEET



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

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

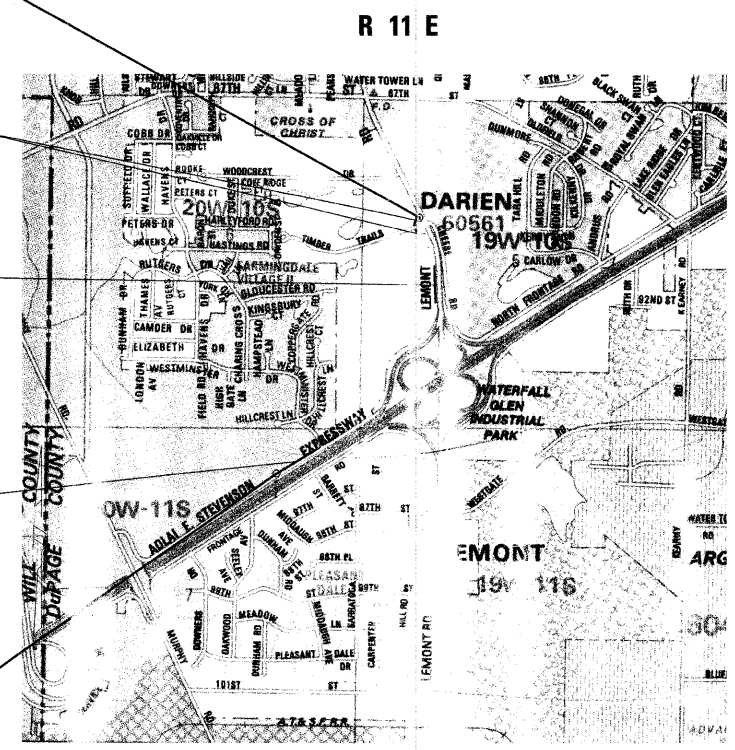
**END PROJECT  
STATION 77+76.38**

SEGMENT A (NORTH)  
BEGIN STA. 75+00  
END STA. 77+76.38

SEGMENT B (MIDDLE)  
BEGIN STA. 50+00  
END STA. 51+90.15

SEGMENT C (SOUTH)  
BEGIN STA. 25+00  
END STA. 33+95.47

**BEGIN PROJECT  
STATION 25+00**



LOCATION MAP  
NOT TO SCALE

**GROSS LENGTH AND NET LENGTH 1,328 FEET (0.25 MILES)**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

Approved 12/22, 2008  
*Lill A. Khan*  
VILLAGE OF WOODRIDGE, VILLAGE ENGINEER

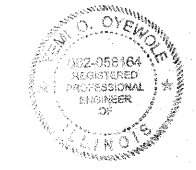
Passed DECEMBER 29 2008  
*CHUCK HOLT*  
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

Released for Bid  
Based on Limited Review DECEMBER 29 2008  
*Diana M. O'Keefe*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1

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

PLANS PREPARED BY:

**URS**  
100 S. WACKER DR., SUITE 500 TEL (312) 339-1000  
CHICAGO IL, 60606 FAX (312) 339-4198



*J. O. O'Keefe*  
DATE: 12/22 2008  
EXPIRES: 12/22 2009

FIELD ENGINEER: MARLIN SOLOMON, (847) 705-4407

**CONTRACT NO. 63113**

## GENERAL NOTES

### SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS:

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007. (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2009; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS; THE "DETAILS" ON THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

### PROJECT COORDINATION:

THE CONTRACTOR SHALL NOTIFY THE VILLAGE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. ATTENTION IS CALLED TO SECTION 701 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION. THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE RIGHT-OF-WAY OF ANY STREET AND/OR ANY PARK PROPERTY SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.

### SAFETY:

ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT ORANGE, FLUORESCENT YELLOW/GREEN, OR A COMBINATION OF FLUORESCENT ORANGE AND FLUORESCENT YELLOW/GREEN SAFETY VESTS MEETING THE REQUIREMENTS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE SPECIFICATION ANSI/ISEA 107-1999 FOR CONSPICUITY CLASS 2 GARMENTS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.

### EXISTING UTILITIES:

EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE VILLAGE OF WOODRIDGE AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS. THE CONTRACTOR SHALL GIVE PRIOR NOTIFICATION TO THE UTILITY COMPANIES AND THE VILLAGE OF WOODRIDGE OF HIS INTENTION TO BEGIN WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS/HER EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING J.U.L.I.E. AT TOLL FREE NUMBER 800-892-0123 AND THE VILLAGE OF WOODRIDGE PUBLIC WORKS DEPARTMENT AT 630-719-4755 REQUESTING UTILITY LOCATION STAKING 48 HOURS PRIOR TO EXCAVATING.

### TRAFFIC CONTROL AND MAINTENANCE:

THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT ONLY ONE TEMPORARY LANE CLOSURE ON ONE STREET IN ONE DIRECTION IS IMPLEMENTED AT A TIME. A LANE CLOSURE WILL ONLY BE PERMITTED DURING CONSTRUCTION OPERATIONS AND IN ACCORDANCE WITH THE APPLICABLE IDOT STANDARDS. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES, INCLUDING FLAGGERS, REQUIRED TO MAINTAIN TRAFFIC FLOW. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT NO HOLES IN THE PAVEMENT WILL REMAIN OPEN OVER NIGHT.

ACCESS TO ABUTTING PROPERTY SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. TIME REQUIRED FOR CONSTRUCTION AT DRIVEWAYS SHALL BE LIMITED TO THE MINIMUM TIME REQUIRED FOR SAID CONSTRUCTION AND, IF REQUIRED, TEMPORARY AGGREGATE SURFACE FOR DRIVEWAY ACCESS SHALL BE PROVIDED.

### UTILITY ADJUSTMENT / RECONSTRUCTION

ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED OUT FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.

### DISPOSAL OF EXCESS MATERIAL:

ALL EXCESS MATERIAL AND ANY OTHER DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN OFF-SITE DISPOSAL AREA.

### PROTECTION OF PUBLIC/PRIVATE PROPERTY:

THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES, SHRUBS, FENCES, DRAIN LINES, POWER LINES, AND OTHER PUBLIC/PRIVATE PROPERTY. ANY ITEM THAT IS DAMAGED SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.

### BIKE PATH SLOPE

AT LOCATIONS OF OVERLAND FLOW ACROSS THE BIKE PATH IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SLOPE THE BIKE PATH A MINIMUM AND MAXIMUM OF 2% IN THE SAME DIRECTION AS THE ADJACENT CROSS SLOPE DRAINAGE TO MAINTAIN OVERLAND FLOW ACROSS THE BIKE PATH.

### EXISTING STREET CLEANLINESS:

THE CONTRACTOR SHALL KEEP EXISTING ADJACENT STREETS CLEAN OF DIRT, MUD, AND OTHER DEBRIS AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS OR WHEN DIRECTED BY THE ENGINEER.

### BASE COURSE CLEANING:

PRIOR TO APPLYING THE BITUMINOUS PRIME COAT, THE BASE SURFACE SHALL BE CLEANED OF ALL LOOSE LEAVES, DUST, DIRT, WEEDS AND OTHER FOREIGN MATERIALS. COST TO BE CONSIDERED INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

### HOT-MIX ASPHALT PAVEMENTS:

FOR DESIGN AND QUANTITY ESTIMATION PURPOSES, THESE PLANS HAVE BEEN DEVELOPED USING 112.0 POUNDS PER SQUARE YARD PER INCH THICKNESS OF HOT-MIX ASPHALT SURFACE PAVEMENTS.

### CLEAN-UP AND DISPOSAL:

THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND ANY SURPLUS MATERIAL SHALL BE REMOVED AND RESTORATION SHALL PROCEED AS THE WORK PROCEEDS. IF THE OWNER OR THE ENGINEER SO DIRECTS, THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP AND RESTORATION. DEBRIS AND SURPLUS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE.

### CONSTRUCTION LIMITS:

THE CONTRACTOR SHALL CONFINE OPERATIONS WITHIN CONSTRUCTION LIMITS AS SHOWN ON PLANS. ANY DAMAGE OUTSIDE OF SAID CONSTRUCTION LIMITS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

### LANDSCAPING RESTORATION:

ALL GRASSED AREAS OUTSIDE THE CONSTRUCTION LIMITS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 4" OF PULVERIZED TOP SOIL AND SEEDING, CLASS 2A. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

### PROPERTY ACCESS

DURING CONSTRUCTION, ALL SIGNS, BARRICADES, AND TEMPORARY PAVEMENT MARKINGS WILL CONFORM TO THE ILLINOIS MUTCD. VEHICULAR ACCESS TO LOCAL PROPERTIES WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, EXCEPT WHEN CONSTRUCTION OPERATIONS OCCUR DIRECTLY ON OR IN FRONT OF DRIVEWAYS. IN THIS CASE, FLAG PERSONS WILL BE USED TO DIRECT AND CONTROL TRAFFIC.

### AS-BUILT RECORD DRAWINGS

A SET OF AS-BUILT RECORD DRAWINGS SHALL BE GIVEN TO THE VILLAGE OF WOODRIDGE UPON COMPLETION OF IMPROVEMENTS SHOWING THE ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, MANHOLES, SEWER LINES, ETC. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.

## CONSTRUCTION ACCESS LOCATIONS

THE CONSTRUCTION ACCESS LOCATIONS SHALL AVOID WETLAND, WETLAND BUFFER AND RIPARIAN AREAS.

## HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
482001-02	HOT-MIX ASPHALT SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542101-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 36" DIA. AT RIGHT ANGLES WITH ROADWAY
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
701006-03	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)

## SEDIMENTATION AND EROSION CONTROL NOTES

- A. 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 OR PERMANENT MEASURES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
- C. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN 14 DAYS AFTER COMPLETION OF FINAL GRADING OF SOIL.
- D. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- E. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- F. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.
- G. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS, ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- H. EROSION CONTROL MEASURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE DUPAGE COUNTY STORMWATER AND FLOODPLAIN ORDINANCE SPECIFICATIONS AT ALL TIMES.

### SAW CUTTING FOR REMOVAL:

THE CONTRACTOR SHALL BE REQUIRED TO MAKE A FULL DEPTH SAW CUT AT THE EDGE OF PAVEMENT ADJACENT TO THE REMOVAL OF ALL CONCRETE CURB OR COMBINATION CONCRETE CURB AND GUTTER. THE CONTRACTOR SHALL MAKE ALL FULL DEPTH SAW CUTS REQUIRED FOR THE REMOVAL OF CONCRETE CURB AND GUTTERS, SIDEWALKS, AND DRIVEWAYS AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER. THE COST SHALL BE CONSIDERED INCLUDED IN THE COST FOR REMOVAL OF THE SPECIFIED ITEM IN THE CONTRACT.

### PAVEMENT REMOVAL:

THE ITEM OF PAVEMENT REMOVAL SHALL INCLUDE ALL SAW CUTS AND MILLING TO PROVIDE A NEAT, STRAIGHT PERPENDICULAR EDGE ADJACENT TO DRIVEWAY TO REMAIN. THE COST SHALL BE CONSIDERED INCLUDED IN THE COST FOR PAVEMENT REMOVAL.

### EXCAVATION SCHEDULE

LOCATION	(CUT) SUITABLE EXCAVATION (EARTH EXCAVATION)	EARTH EX ADJUSTED FOR SHRINKAGE (15%)	(FILL) SUITABLE EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE (-) (FURNISHED EXCAVATION)	UNSUITABLE EXCAVATION (REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL)	(TOPSOIL CUT) UNSUITABLE EXCAVATION (TOPSOIL)
	CY	CY	CY	CY	CY	CY
Mainline Path						
STA. 25+00 - 33+95.47 (South)	137.6	117.0	49.6	67.4	133.0	209.8
STA. 50+00 - 51+90.15 (Middle)	14.1	12.0	19.4	-7.4	28.0	37.0
STA. 75+00 - 77+84.15 (North)	90.8	77.2	56.7	20.5	42.0	96.9
TOTALS	243	206	126	80	203	344

REVISIONS	
NAME	DATE

**URS** 100 S. WACKER DR., SUITE 500 TEL (312) 939-1000  
CHICAGO IL, 60606 FAX (312) 939-4198

VILLAGE OF WOODRIDGE  
HERITAGE BIKEWAY  
  
GENERAL NOTES  
AND STANDARDS

SCALE:  
DATE:

DRAWN BY: YOO  
CHECKED BY: DDL

ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY Y047	SEGMENT A (NORTH)	SEGMENT B (MIDDLE)	SEGMENT C (SOUTH)
20101100	TREE TRUNK PROTECTION	EACH	1	0	1	0
20200100	EARTH EXCAVATION	CU YD	243	91	14	138
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	203	42	28	133
20400800	FURNISHED EXCAVATION	CU YD	80.5	20.5	0	60
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	75	0	0	75
20800150	TRENCH BACKFILL	CU YD	10	0	0	10
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1335	245	190	900
△ 21101625	TOPSOIL, FURNISH AND PLACE, 6 INCH	SQ YD	285	25	10	250
△ 25000210	SEEDING, CLASS 2A	ACRE	0.3	0.05	0.02	0.23
△ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27	5	4	18
△ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27	5	4	18
△ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27	5	4	18
△ 25100115	MULCH METHOD 2	ACRE	0.3	0.05	0.02	0.23
△ 25200200	SUPPLEMENTAL WATERING	UNIT	1200	100	100	1000
28000400	PERIMETER EROSION BARRIER	FOOT	1370	250	195	925
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	52	12	0	40
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	12	0	0	12
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1275	222	178	875
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	325	55	44	226
40600300	AGGREGATE (PRIME COAT)	TON	2.43	0.44	0.36	1.63
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2.13	37	30	146
42001300	PROTECTIVE COAT	SQ YD	91.5	11.5	3	77
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	650	62	0	588
42400800	DETECTABLE WARNINGS	SQ FT	124	52	24	48
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	141	48	0	93
44000600	SIDEWALK REMOVAL	SQ FT	847	0	0	847
50200100	STRUCTURE EXCAVATION	CU YD	7	0	0	7
50300225	CONCRETE STRUCTURES	CU YD	1.6	0	0	1.6
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	90	0	0	90
54202119	PIPE CULVERTS, TYPE 3 RCCP 24"	FOOT	20	0	0	20
△ 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1	0	0	1
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	110	0	0	110
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	24	24	0	0
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0	0	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0	0	1
72000100	SIGN PANEL - TYPE 1	SQ FT	50	25	6.25	18.75
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	0	2	2
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	0	2	0
72900100	METAL POST - TYPE A	FOOT	84	36	24	24
72900200	METAL POST - TYPE B	FOOT	40.5	13.5	13.5	13.5
△ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	249	64	50	135
△ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	412	130	77	205
78300105	PAVEMENT MARKING REMOVAL	FOOT	17	0	0	17
△ D2003860	EVERGREEN, THUJA OCCIDENTALIS TECHN (TECHNY ARBORVITAE), 5' HEIGHT, BALLED & BURLAPPED	EACH	5	5	0	0
X0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	97.5	97.5	0	0
XX006064	SAWCUT CURB	FOOT	30	30	0	0
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	1	1	0	0
Z0019600	DUST CONTROL WATERING	UNIT	18	3	3	12
67100100	MOBILIZATION	L SUM	1	1		

△: INDICATES SPECIALTY ITEMS.

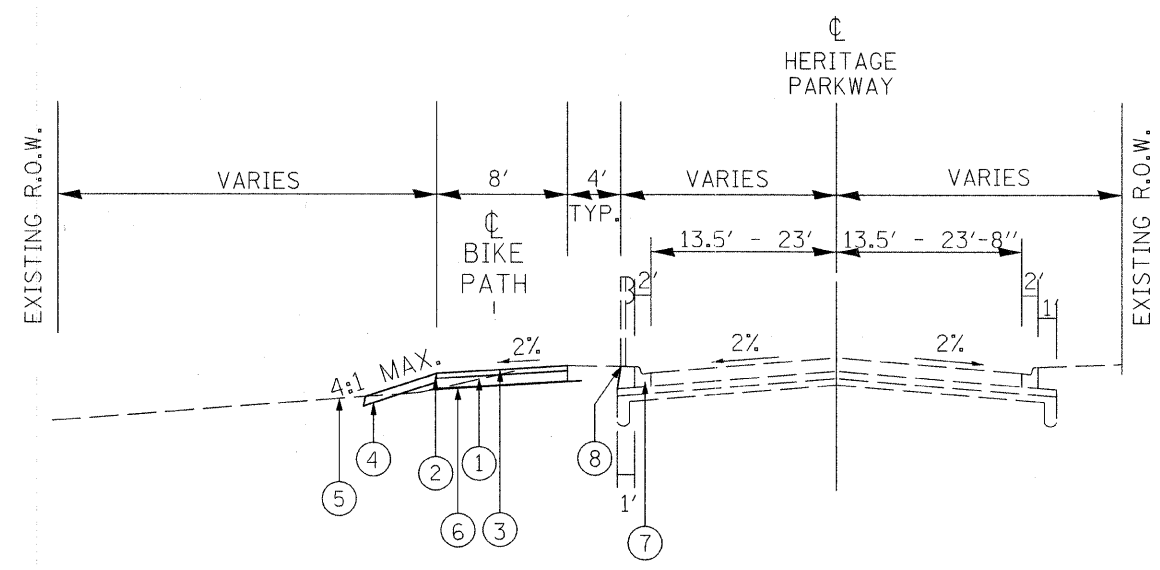
REVISIONS	
NAME	DATE

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CHICAGO IL, 60606 FAX (312)-939-4198

VILLAGE OF WOODRIDGE  
HERITAGE BIKEWAY  
SUMMARY OF QUANTITIES

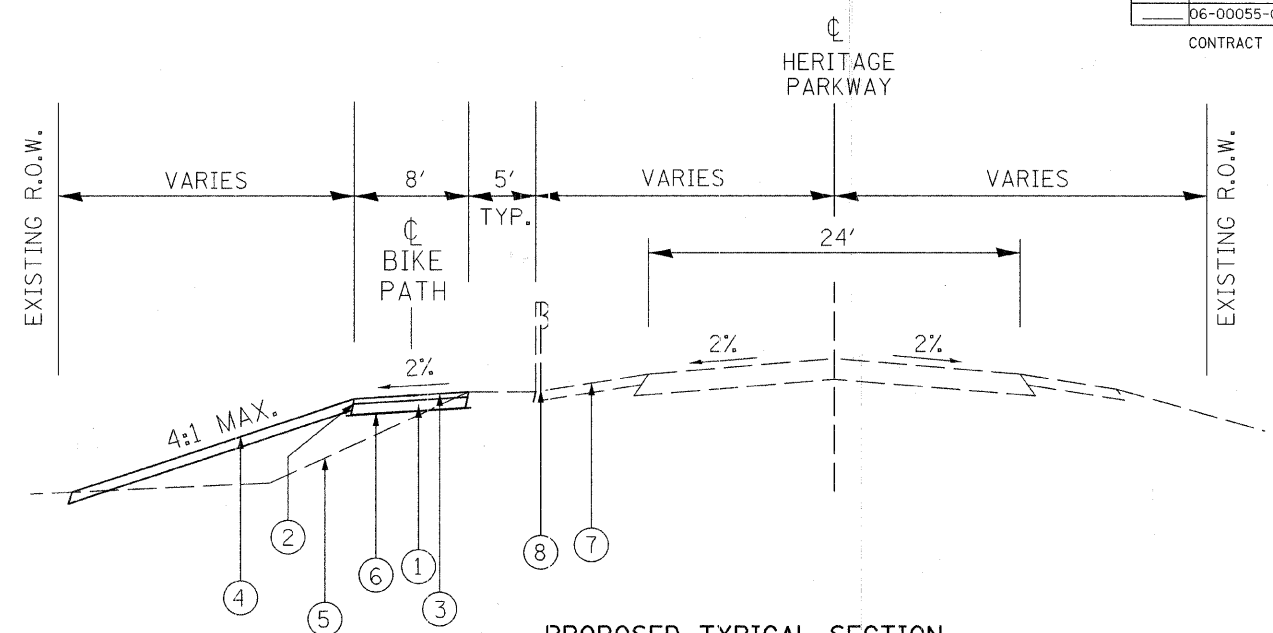
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DRAWN BY: Y00  
CHECKED BY: DDL



**PROPOSED TYPICAL SECTION**

HERITAGE BIKEWAY (CURB SECTION)  
 STA. 50+00 - STA. 51+90.15 (MIDDLE SEGMENT)  
 STA. 75+00 - STA. 76+28.57 (NORTH SEGMENT)

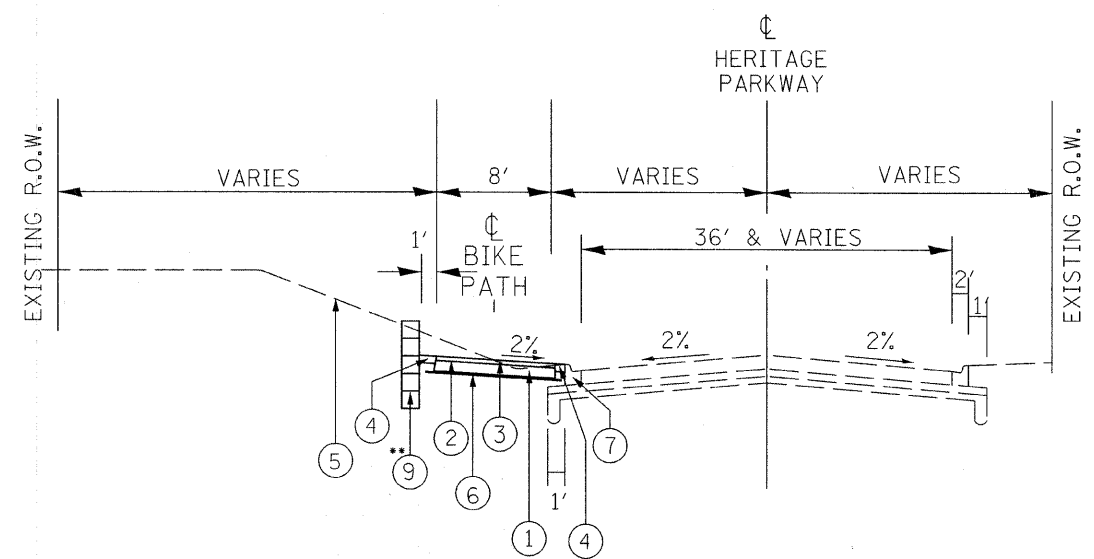


**PROPOSED TYPICAL SECTION**

HERITAGE BIKEWAY (SHOULDER SECTION)  
 STA. 25+00 - STA. 33+95.47 (SOUTH SEGMENT)

**LEGEND**

- ① AGGREGATE BASE COURSE, TYPE B, 6"
- ② BITUMINOUS MATERIALS (PRIME COAT)
- ③ HOT-MIX ASPHALT SURF. CRSE., MIX C, N50, 3 IN
- ④ 6" TOP SOIL AND SEEDING CLASS 2A
- ⑤ EXISTING GROUND
- ⑥ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 10-FT WIDE
- ⑦ EXISTING CURB AND GUTTER/SHOULDER
- ⑧ EXISTING GUARDRAIL TO REMAIN
- ⑨ PROPOSED PRECAST BLOCK RETAINING WALL



**PROPOSED TYPICAL SECTION**

HERITAGE BIKEWAY (CURB SECTION)  
 STA. 76+63 - STA. 77+76.38 (NORTH SEGMENT)

•• APPROX. LIMITS OF PROP. PRECAST BLOCK RETAINING WALL STA. 77+07 - STA. 77+65 (NORTH SEGMENT)

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

BIKE PATH SURFACE	AC TYPE	VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX. C, N50 (IL 9.5 mm)	PG 64-22	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

**NOTE 1:**

WHERE UNSUITABLE MATERIAL UNDERLIES THE BIKE PATH, SHOULDERS AND/OR EMBANKMENT, AS DETERMINED BY THE ENGINEER, THE SUBGRADE TREATMENT WILL CONSIST OF EXCAVATION OF UNSUITABLE MATERIAL TO A DEPTH 1'-0" BELOW AGGREGATE BASE COURSE AND PLACEMENT OF 1'-0" OF POROUS GRANULAR EMBANKMENT SUBGRADE AND A GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

**NOTE 2:**

WHERE THE TYPICAL SECTION INDICATES A CONSTANT CROSS-SLOPE ACROSS THE PATH, THE CONTRACTOR SHALL CONSTRUCT THE PATH SO THAT THE CROSS SLOPE IS IN THE DIRECTION OF THE GROUND SLOPE.

**NOTE 3:**

ADDITIONAL FILL MATERIAL TO BE PLACED ABOVE FABRIC IN CUT SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. MATERIAL SHALL BE SUITABLE EMBANKMENT MATERIAL.

**NOTE 4:**

AT ALL INTERSECTIONS OF BIKE PATH AND STREETS/DRIVEWAYS DEPRESS THE CURB (IF APPLICABLE) AND KEEP EXISTING PAVEMENT ELEVATIONS.

REVISIONS	
NAME	DATE

**URS** 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000  
 CHICAGO IL, 60606 FAX (312)-939-4198

VILLAGE OF WOODRIDGE  
 HERITAGE BIKEWAY  
 TYPICAL CROSS SECTIONS

SCALE: \_\_\_\_\_ DRAWN BY: Y00  
 DATE: \_\_\_\_\_ CHECKED BY: DDL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00055-00-BT	DUPAGE	27	5

CONTRACT No: 63113

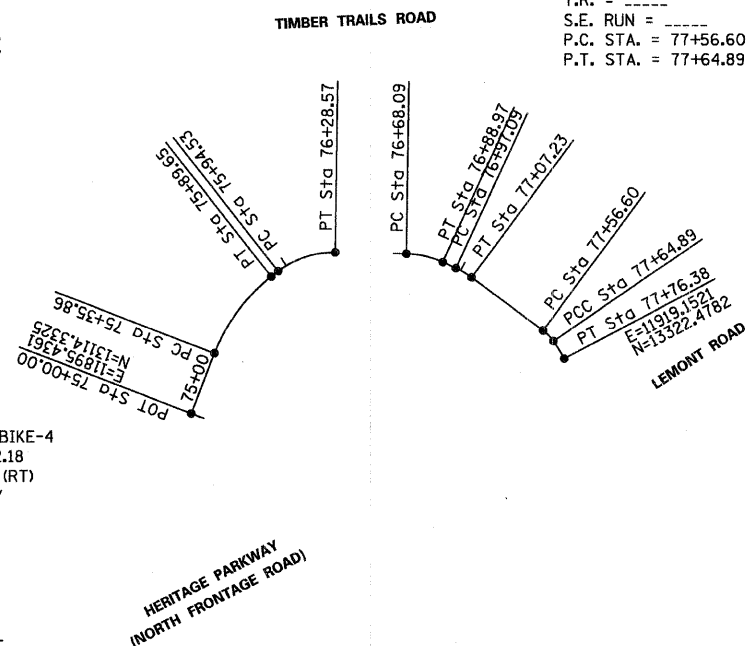
PROP. CURVE NWBIKE-1  
 PI STA. = 75+63.42  
 $\Delta = 30^\circ 49' 15''$  (RT)  
 D = 57' 17' 45"  
 R = 100.00'  
 T = 27.56'  
 L = 53.79'  
 E = 3.73'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 75+35.86  
 P.T. STA. = 75+89.65

PROP. CURVE NWBIKE-2  
 PI STA. = 76+12.24  
 $\Delta = 39^\circ 00' 42''$  (RT)  
 D = 114' 35' 30"  
 R = 50.00'  
 T = 17.71'  
 L = 34.04'  
 E = 3.04'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 75+94.53  
 P.T. STA. = 76+28.57

PROP. CURVE NWBIKE-5  
 PI STA. = 77+60.79  
 $\Delta = 19^\circ 00' 00''$  (RT)  
 D = 229' 10' 59"  
 R = 25.00'  
 T = 4.18'  
 L = 8.29'  
 E = 0.35'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 77+56.60  
 P.T. STA. = 77+64.89

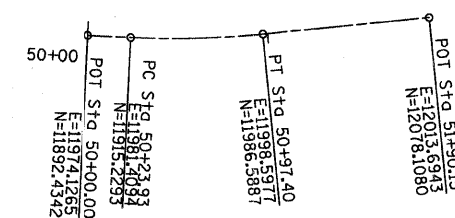
PROP. CURVE NWBIKE-6  
 PI STA. = 77+70.65  
 $\Delta = 6^\circ 35' 02''$  (RT)  
 D = 57' 17' 45"  
 R = 100.00'  
 T = 5.75'  
 L = 11.49'  
 E = 0.17'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 77+64.89  
 P.T. STA. = 77+76.38

PROP. CURVE NBBIKE-1-1  
 PI STA. = 50+60.73  
 $\Delta = 8^\circ 21' 06''$  (LT)  
 D = 11' 22' 06"  
 R = 504.00'  
 T = 36.80'  
 L = 73.47'  
 E = 1.34'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 50+23.93  
 P.T. STA. = 50+97.40



PROP. CURVE NWBIKE-3  
 PI STA. = 76+78.68  
 $\Delta = 23^\circ 55' 02''$  (RT)  
 D = 114' 35' 30"  
 R = 50.00'  
 T = 10.59'  
 L = 20.87'  
 E = 1.11'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 76+68.09  
 P.T. STA. = 76+88.97

PROP. CURVE NWBIKE-4  
 PI STA. = 77+02.18  
 $\Delta = 11^\circ 37' 32''$  (RT)  
 D = 114' 35' 30"  
 R = 50.00'  
 T = 5.09'  
 L = 10.15'  
 E = 0.26'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 76+97.09  
 P.T. STA. = 77+07.23



HERITAGE PARKWAY (NORTH FRONTAGE ROAD)

SEGMENT B (MIDDLE BIKE PATH)

SEGMENT A (NORTH BIKE PATH)

**BENCHMARKS**

**DuPage County Benchmark # DGS08001**

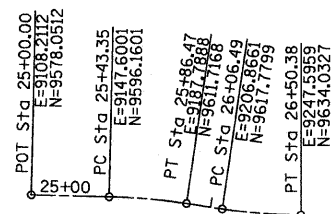
Standard DuPage County Benchmark located at the southeast corner of 97th Street and Westgate Road; 94 feet east of the centerline of Lemont Road and 63 feet south of the centerline of Westgate Road. Benchmark is 49 feet southeast of a traffic control light. Elevation 754.5428 (NGVD 29) Elevation 754.96 (Village of Woodridge Datum)

**Site Benchmark #1**

Chiseled "X" on the northwest flange bolt of the fire hydrant located at the northeast corner of Heritage Parkway and Westminster Drive. Elevation 738.47 (Village of Woodridge Datum)

**Site Benchmark #2**

Chiseled "X" on the northeast flange bolt of the fire hydrant located at the end of the existing bike trail, on the north side of Heritage Parkway, at approximately Sta. 7+98. Elevation 734.36 (Village of Woodridge Datum)



PROP. CURVE SBIKE\_R-1  
 PI STA. = 25+64.94  
 $\Delta = 7^\circ 03' 33''$  (RT)  
 D = 16' 22' 13"  
 R = 350.00'  
 T = 21.59'  
 L = 43.12'  
 E = 0.67'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 25+43.35  
 P.T. STA. = 25+86.47

PROP. CURVE SBIKE\_R-2  
 PI STA. = 26+28.48  
 $\Delta = 8^\circ 14' 42''$  (LT)  
 D = 18' 47' 08"  
 R = 305.00'  
 T = 21.98'  
 L = 43.89'  
 E = 0.79'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 26+06.49  
 P.T. STA. = 26+50.38

PROP. CURVE SBIKE\_R-3  
 PI STA. = 33+18.71  
 $\Delta = 3^\circ 45' 46''$  (LT)  
 D = 11' 22' 06"  
 R = 504.00'  
 T = 16.56'  
 L = 33.10'  
 E = 0.27'  
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 33+02.15  
 P.T. STA. = 33+35.25

HERITAGE PARKWAY (NORTH FRONTAGE ROAD)

SEGMENT C (SOUTH BIKE PATH)



REVISIONS	
NAME	DATE

**URS** 100 S. WACKER DR., SUITE 500 TEL (312) 939-1000  
 CHICAGO IL, 60606 FAX (312) 939-4198

VILLAGE OF WOODRIDGE  
 HERITAGE BIKEWAY

ALIGNMENT AND TIES PLAN

SCALE:  
 DATE:

DRAWN BY: YOO  
 CHECKED BY: DDL

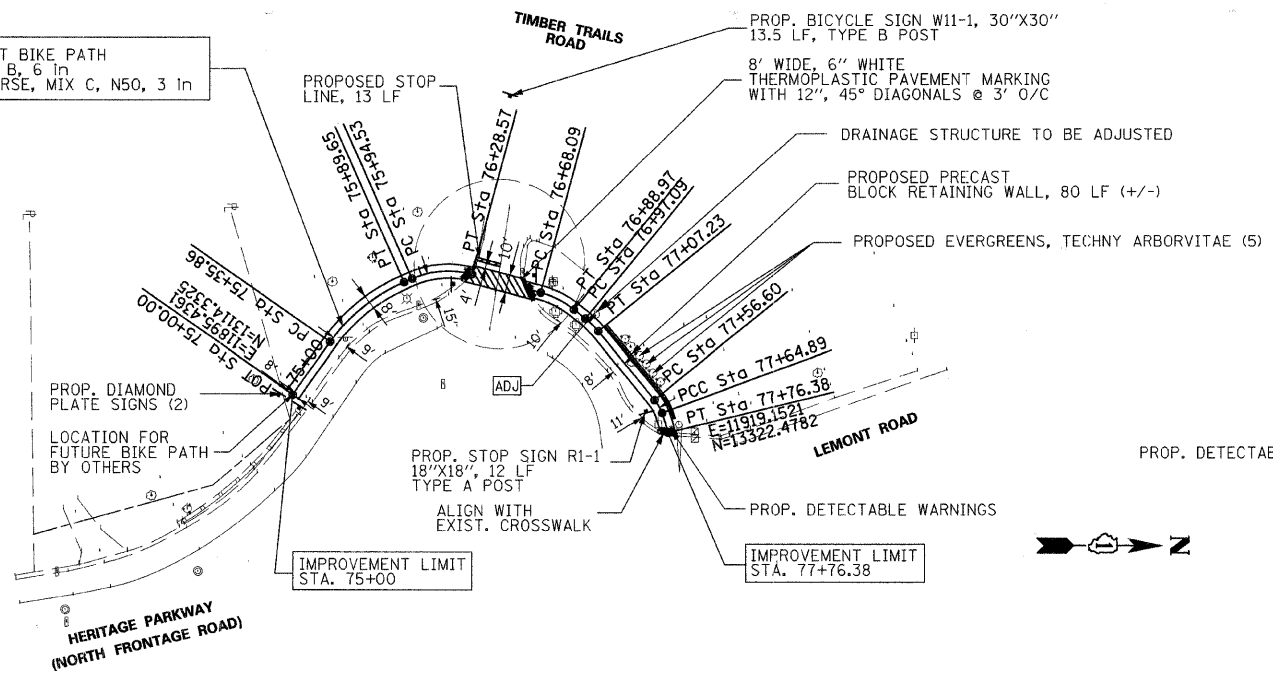
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00055-00-BT	DUPAGE	27	6

CONTRACT NO: 63113

<p>PROP. CURVE NWBIKE-1 PI STA. = 75+63.42 Δ = 30° 49' 15" (RT) D = 57' 17' 45" R = 100.00' T = 27.56' L = 53.79' E = 3.73' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 75+35.86 P.T. STA. = 75+89.65</p>	<p>PROP. CURVE NWBIKE-2 PI STA. = 76+12.24 Δ = 39° 00' 42" (RT) D = 114' 35' 30" R = 50.00' T = 17.71' L = 34.04' E = 3.04' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 75+94.53 P.T. STA. = 76+28.57</p>	<p>PROP. CURVE NWBIKE-3 PI STA. = 76+78.68 Δ = 23° 55' 02" (RT) D = 114' 35' 30" R = 50.00' T = 10.59' L = 20.87' E = 1.11' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 76+68.09 P.T. STA. = 76+88.97</p>
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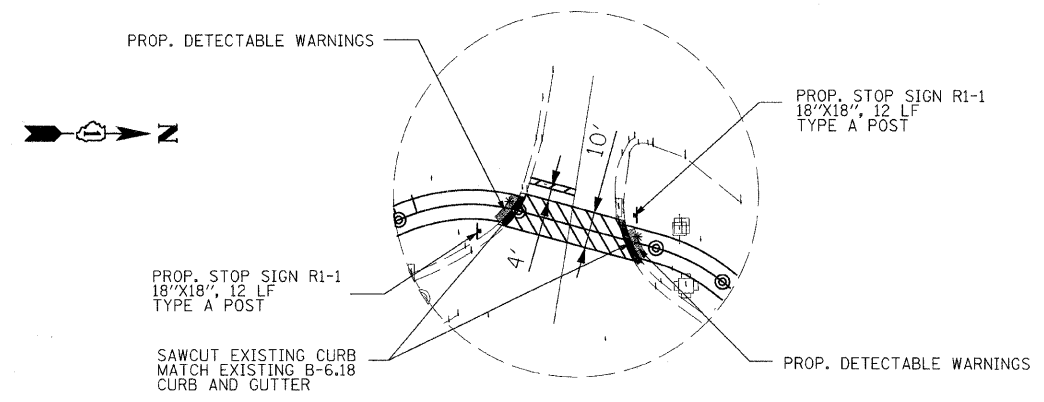
<p>PROP. CURVE NWBIKE-4 PI STA. = 77+02.18 Δ = 11° 37' 32" (RT) D = 114' 35' 30" R = 50.00' T = 5.09' L = 10.15' E = 0.26' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 76+97.09 P.T. STA. = 77+07.23</p>	<p>PROP. CURVE NWBIKE-5 PI STA. = 77+60.79 Δ = 19° 00' 00" (RT) D = 229' 10' 59" R = 25.00' T = 4.18' L = 8.29' E = 0.35' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 77+56.60 P.T. STA. = 77+64.89</p>	<p>PROP. CURVE NWBIKE-6 PI STA. = 77+70.65 Δ = 6° 35' 02" (RT) D = 57' 17' 45" R = 100.00' T = 5.75' L = 11.49' E = 0.17' e = ----- T.R. = ----- S.E. RUN = ----- P.C. STA. = 77+64.89 P.T. STA. = 77+76.38</p>
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PROPOSED 8-FOOT WIDE ASPHALT BIKE PATH  
AGGREGATE BASE COURSE, TYPE B, 6 in  
HOT MIX ASPHALT SURFACE COURSE, MIX C, N50, 3 in

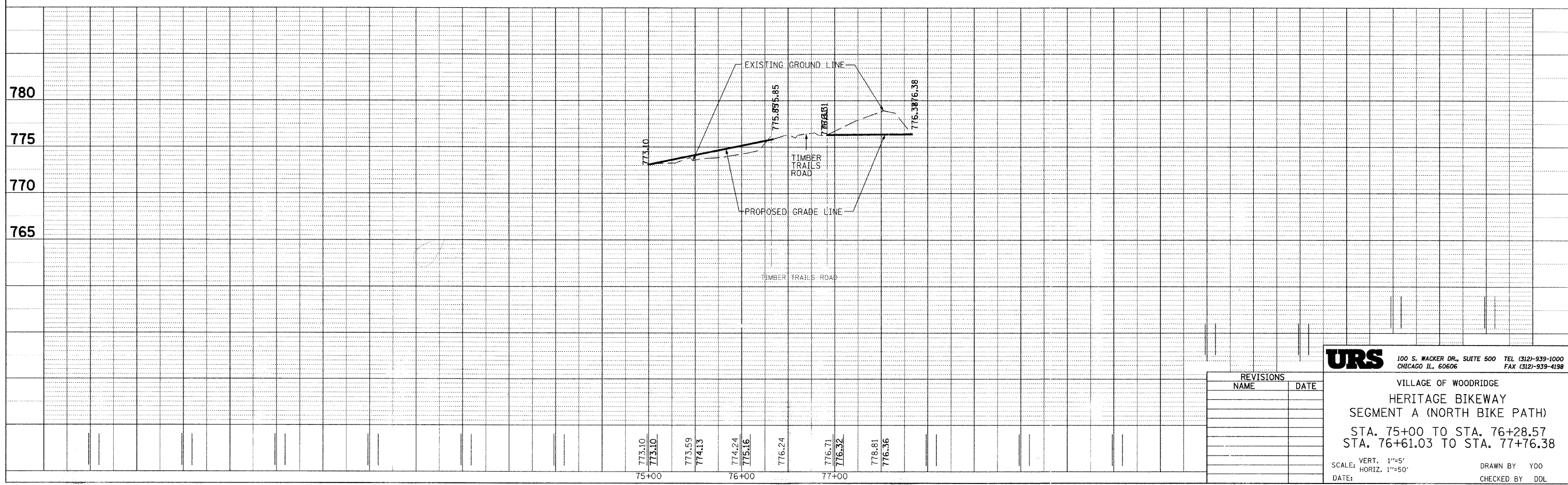
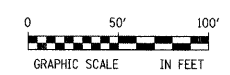


SEGMENT A (NORTH BIKE PATH)

\*NOTE: SAWCUT EXISTING CURB AT LOCATIONS SHOWN AND MATCH EXISTING SURFACE ELEVATION.  
PROPOSED DIAMOND PLATE SIGNS (2) TO BE RELOCATED FROM STA. 50+12, BIKE PATH (SEGMENT B).



INTERSECTION DETAILS



REVISIONS	
NAME	DATE

**URS** 100 S. WACKER DR., SUITE 500 TEL (312) 939-1000  
CHICAGO IL, 60606 FAX (312) 939-4198

VILLAGE OF WOODRIDGE  
HERITAGE BIKEWAY  
SEGMENT A (NORTH BIKE PATH)  
STA. 75+00 TO STA. 76+28.57  
STA. 76+61.03 TO STA. 77+76.38

SCALE: VERT. 1"=5'  
HORIZ. 1"=50'  
DATE: DRAWN BY YOO  
CHECKED BY DDL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00055-00-BT	DUPAGE	27	7

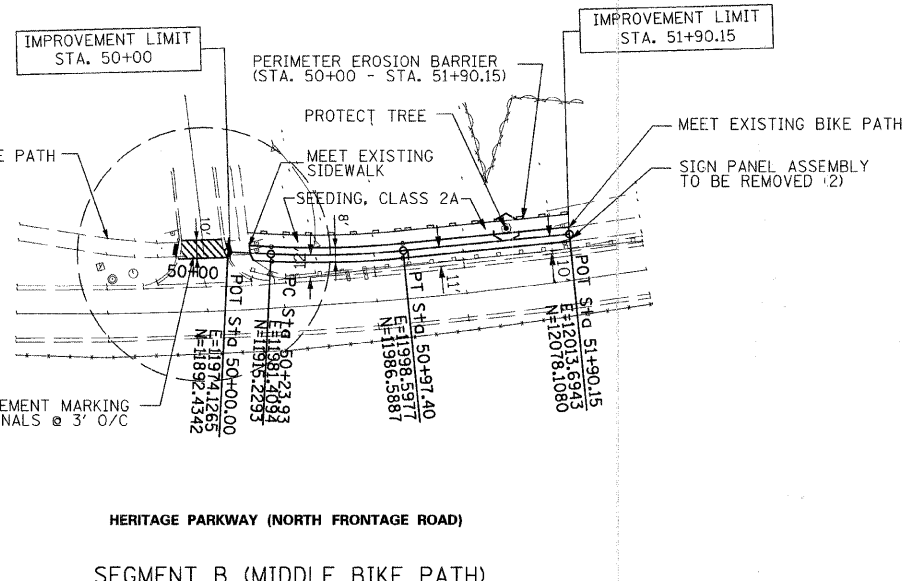
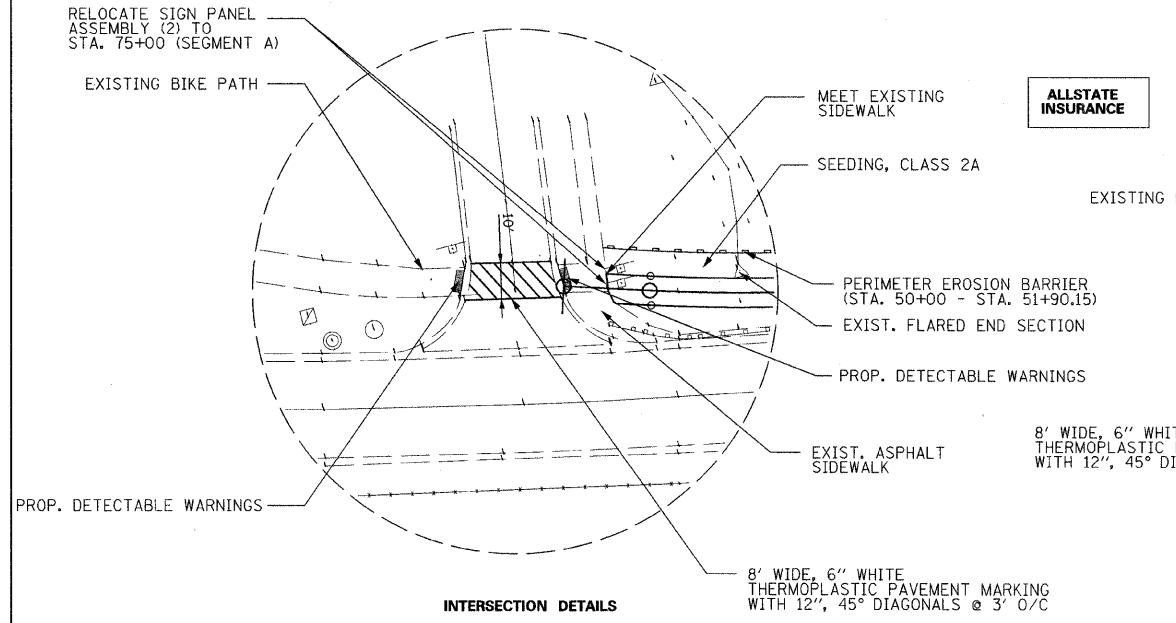
CONTRACT NO: 63113

**PROP. CURVE NBIKE-1-1**  
PI STA. = 50+60.73  
 $\Delta = 8^\circ 21' 06''$  (LT)  
D = 11° 22' 06"  
R = 504.00'  
T = 36.80'  
L = 73.47'  
E = 1.34'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA. = 50+23.93  
P.T. STA. = 50+97.40

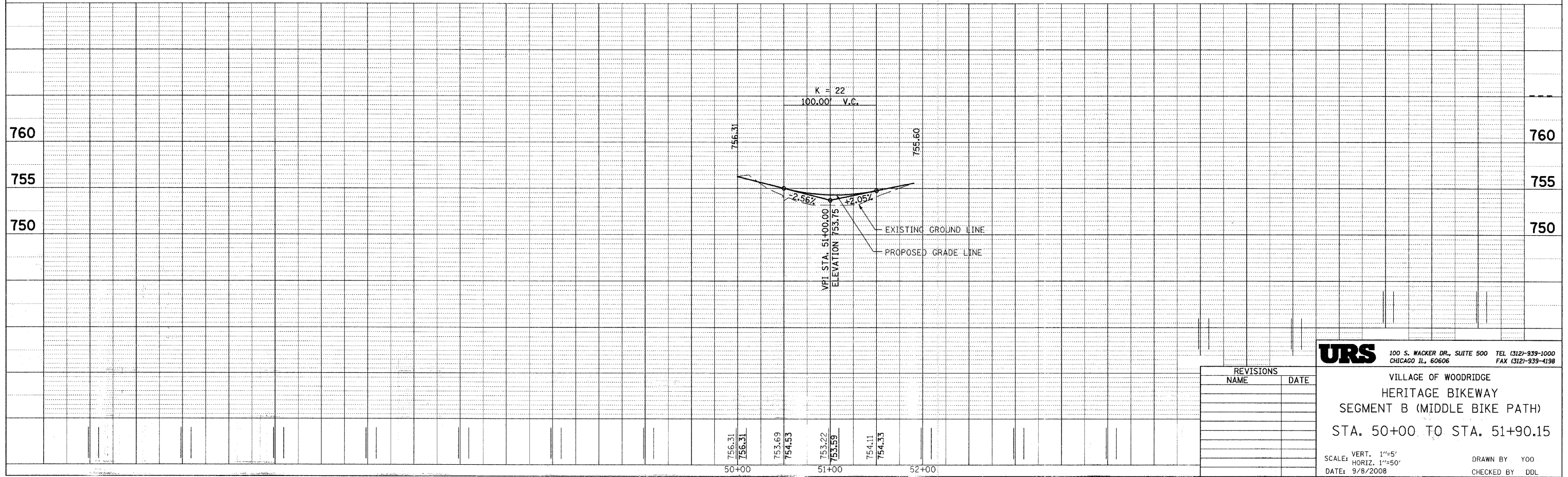
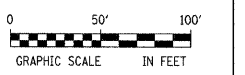
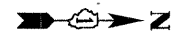
**EXIST. CURVE NROAD-2-1**  
PI STA. = 101+75.83  
 $\Delta = 9^\circ 07' 23''$  (LT)  
D = 2° 35' 59"  
R = 2,203.84'  
T = 175.83'  
L = 350.91'  
E = 7.00'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA. = 100+00.00  
P.T. STA. = 103+50.91

\*NOTE: WHEN PROPOSED BIKE PATH CROSSING IS AN EXISTING SIDE ROAD/DRIVEWAY WITH CURB OR CURB AND GUTTER, USE 8 FEET LONG CONCRETE RAMP (5" PCC SIDEWALK PAVEMENT OVER 4" SUB-BASE GRANULAR MATERIAL, TYPE B) AND ALSO REMOVE AND INSTALL 16 FEET OF EXISTING CURB AND GUTTER (TYPICAL).

MATCH EXISTING SURFACE ELEVATION AT ALL EXIST. DRIVEWAYS/SIDE ROADS (TYP.)



HERITAGE PARKWAY (NORTH FRONTAGE ROAD)  
**SEGMENT B (MIDDLE BIKE PATH)**



REVISIONS	NAME	DATE

**URS** 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000  
CHICAGO IL, 60606 FAX (312)-939-4198

VILLAGE OF WOODRIDGE  
**HERITAGE BIKEWAY**  
**SEGMENT B (MIDDLE BIKE PATH)**  
**STA. 50+00 TO STA. 51+90.15**

SCALE: VERT. 1"=5'  
HORIZ. 1"=50'  
DATE: 9/8/2008

DRAWN BY YOO  
CHECKED BY DDL

PROP. CURVE SBIKE-1-1  
 PI STA. = 25+71.10  
 $\Delta = 8^\circ 53' 06''$  (RT)  
 $D = 18^\circ 43' 27''$   
 $R = 306.00'$   
 $T = 23.77'$   
 $L = 47.45'$   
 $E = 0.92'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 $P.C. STA. = 25+47.33$   
 $P.T. STA. = 25+94.78$

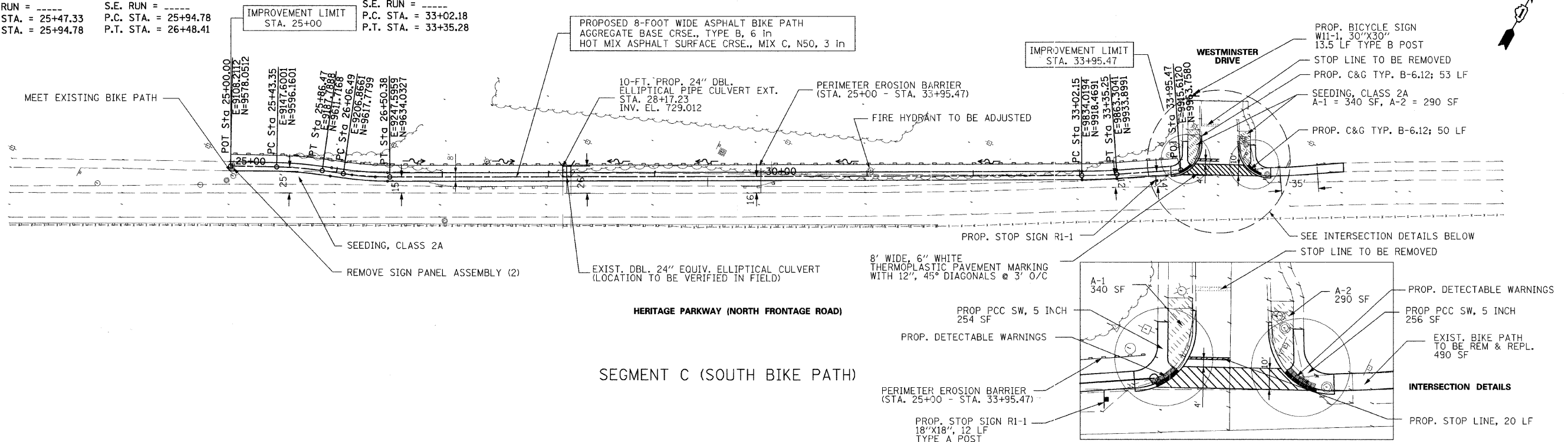
PROP. CURVE SBIKE-1-2  
 PI STA. = 26+21.66  
 $\Delta = 9^\circ 47' 05''$  (LT)  
 $D = 18^\circ 14' 49''$   
 $R = 314.00'$   
 $T = 26.88'$   
 $L = 53.62'$   
 $E = 1.15'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 $P.C. STA. = 25+94.78$   
 $P.T. STA. = 26+48.41$

PROP. CURVE SBIKE-1-3  
 PI STA. = 33+18.74  
 $\Delta = 3^\circ 45' 46''$  (LT)  
 $D = 11^\circ 22' 06''$   
 $R = 504.00'$   
 $T = 16.56'$   
 $L = 33.10'$   
 $E = 0.27'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 $P.C. STA. = 33+02.18$   
 $P.T. STA. = 33+35.28$

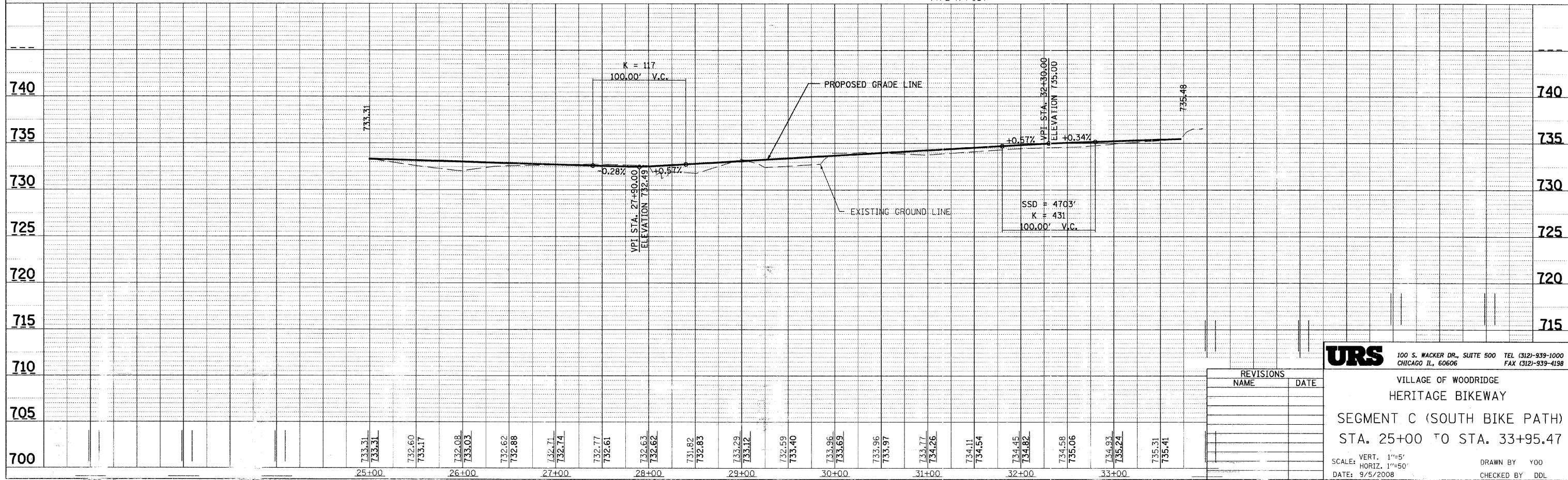
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00055-00-BT	DUPAGE		27	8

CONTRACT NO: 63113

\* NOTE: WHEN PROPOSED BIKE PATH IS CROSSING AN EXISTING SIDE ROAD/DRIVEWAY WITH CURB OR CURB AND GUTTER, USE 8 FEET LONG CONCRETE RAMP (6" PCC SIDEWALK PAVEMENT OVER 4" SUB-BASE GRANULAR MATERIAL, TYPE B) AND ALSO REMOVE AND INSTALL 16 FEET OF EXISTING CURB AND GUTTER (TYPICAL).  
 MATCH EXISTING SURFACE ELEVATION AT ALL EXIST. DRIVEWAYS/SIDE ROADS (TYP.)



HERITAGE PARKWAY (NORTH FRONTAGE ROAD)  
 SEGMENT C (SOUTH BIKE PATH)



PLAN	DATE
BY	
REVISIONS	
NO.	

PROFILE	DATE
BY	
REVISIONS	
NO.	

REVISIONS	
NAME	DATE

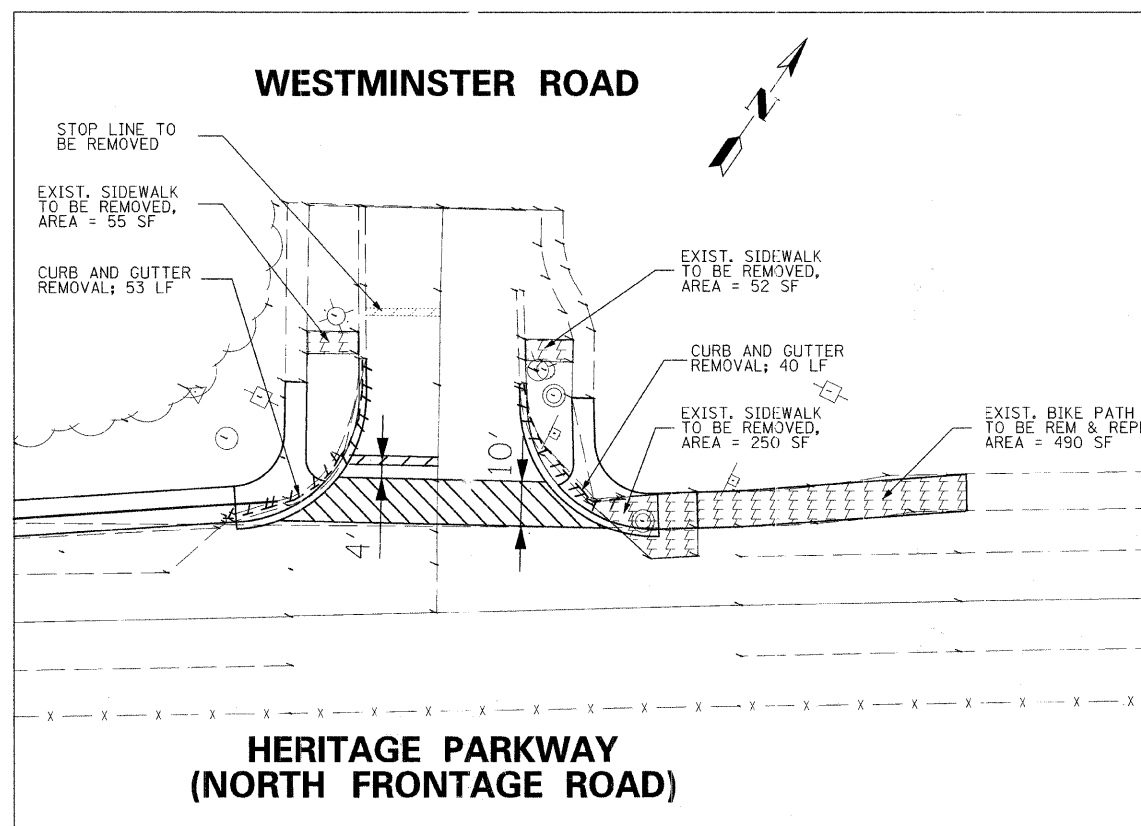
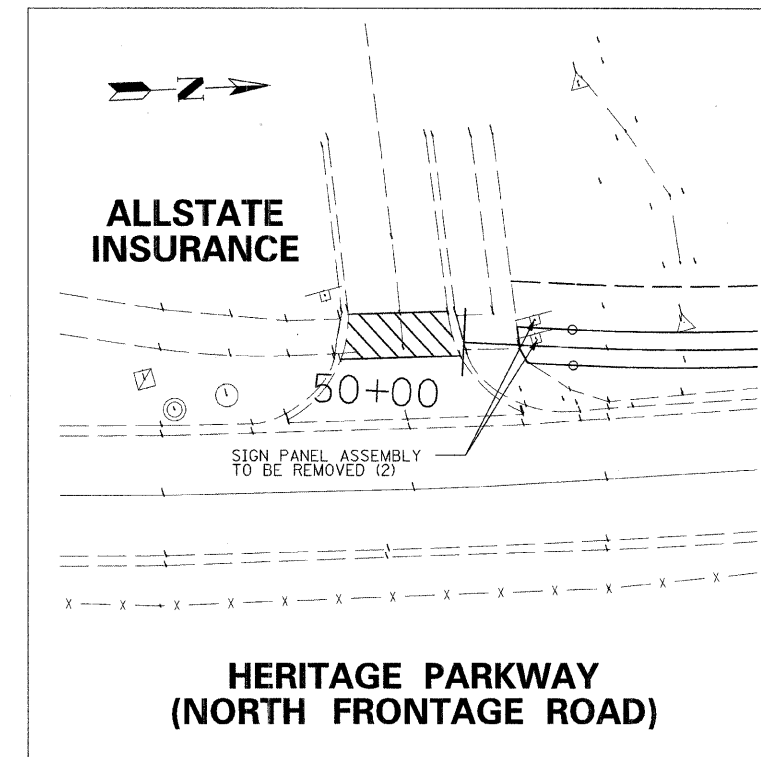
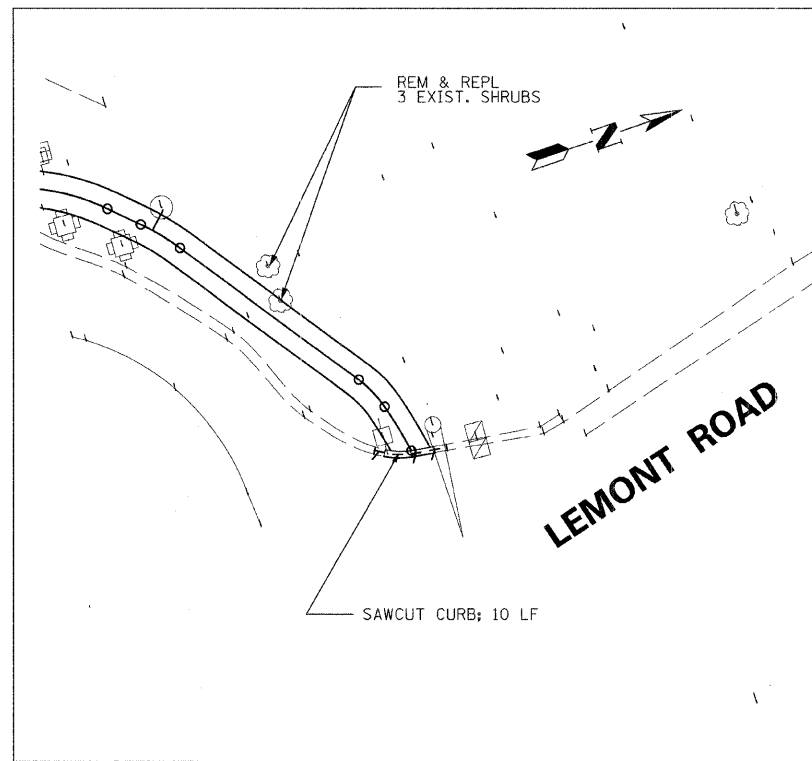
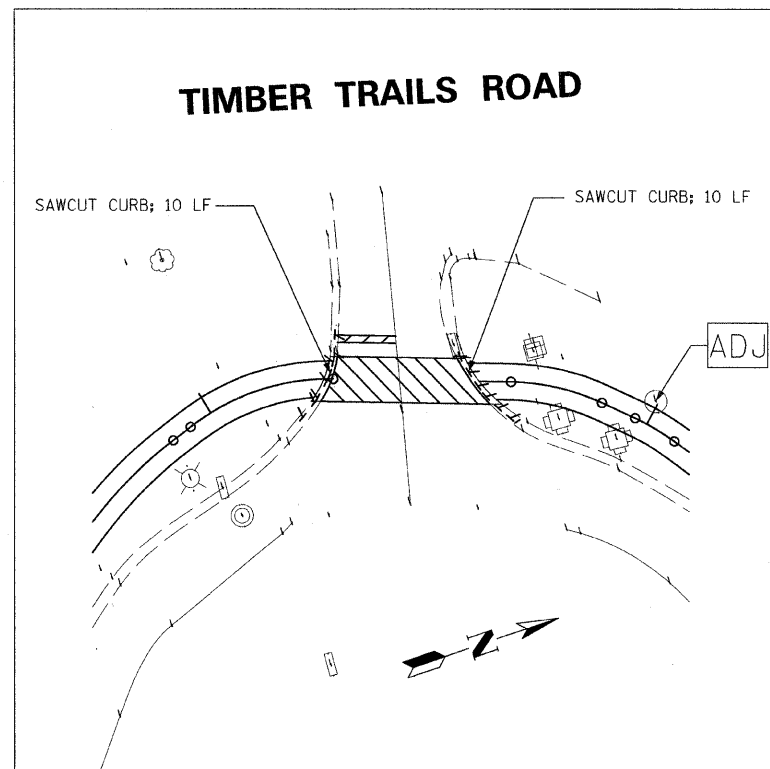
**URS** 100 S. WACKER DR., SUITE 500 TEL (312) 939-1000  
 CHICAGO IL, 60606 FAX (312) 939-4198

VILLAGE OF WOODRIDGE  
 HERITAGE BIKEWAY  
 SEGMENT C (SOUTH BIKE PATH)  
 STA. 25+00 TO STA. 33+95.47

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'  
 DATE: 9/5/2008

DRAWN BY YOO  
 CHECKED BY DDL





**LEGEND**

	CURB AND GUTTER REMOVAL
	SAWCUT CURB
	SIDEWALK REMOVAL



REVISIONS	
NAME	DATE

**URS** 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000  
CHICAGO IL, 60606 FAX (312)-939-4198

VILLAGE OF WOODRIDGE  
HERITAGE BIKEWAY  
REMOVAL PLAN

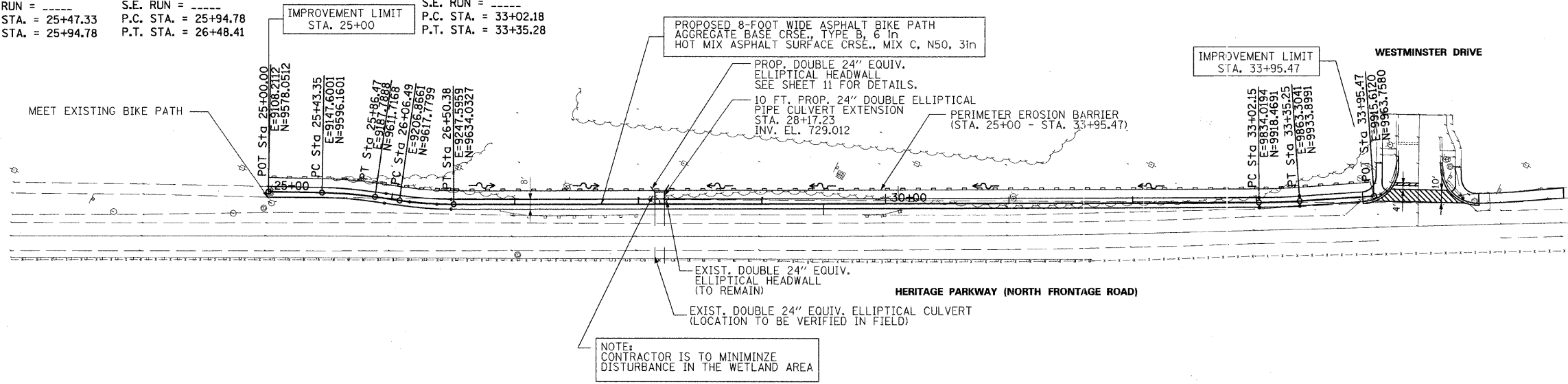
SCALE:  
DATE: 9/17/2008

DRAWN BY: YOO  
CHECKED BY: DDL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00055-00-B1	DUPAGE		27	10
STA. 25+00		TO STA. 33+95.47		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO: 63113

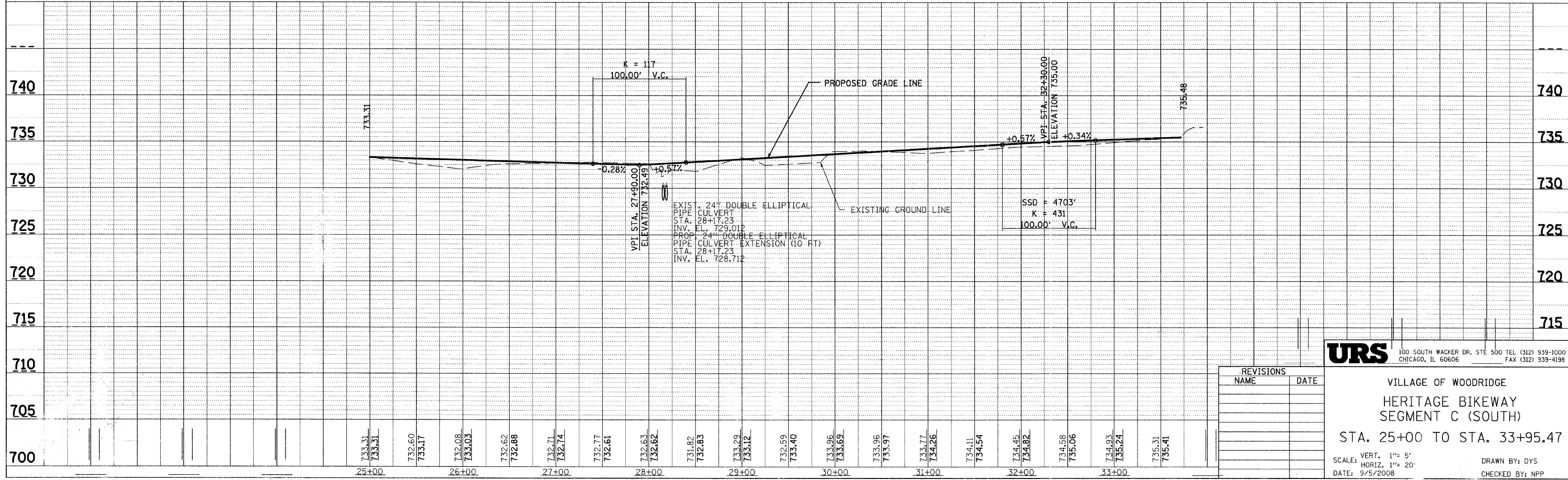
PROP. CURVE SBIKE-1-1 PI STA. = 25+71.10 $\Delta = 8^\circ 53' 06''$ (RT) $D = 18^\circ 43' 27''$ $R = 306.00'$ $T = 23.77'$ $L = 47.45'$ $E = 0.92'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ $P.C. STA. = 25+47.33$ $P.T. STA. = 25+94.78$	PROP. CURVE SBIKE-1-2 PI STA. = 26+21.66 $\Delta = 9^\circ 47' 05''$ (LT) $D = 18^\circ 14' 49''$ $R = 314.00'$ $T = 26.88'$ $L = 53.62'$ $E = 1.15'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ $P.C. STA. = 25+94.78$ $P.T. STA. = 26+48.41$	PROP. CURVE SBIKE-1-3 PI STA. = 33+18.74 $\Delta = 3^\circ 45' 46''$ (LT) $D = 11^\circ 22' 06''$ $R = 504.00'$ $T = 16.56'$ $L = 33.10'$ $E = 0.27'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ $P.C. STA. = 33+02.18$ $P.T. STA. = 33+35.28$
--	--	--



NOTES:  
CONTRACTOR IS TO MINIMIZE DISTURBANCE IN THE WETLAND AREA

PLAN	DATE
BY	
REVISIONS	
NO.	

PROFILE	DATE
BY	
REVISIONS	
NO.	



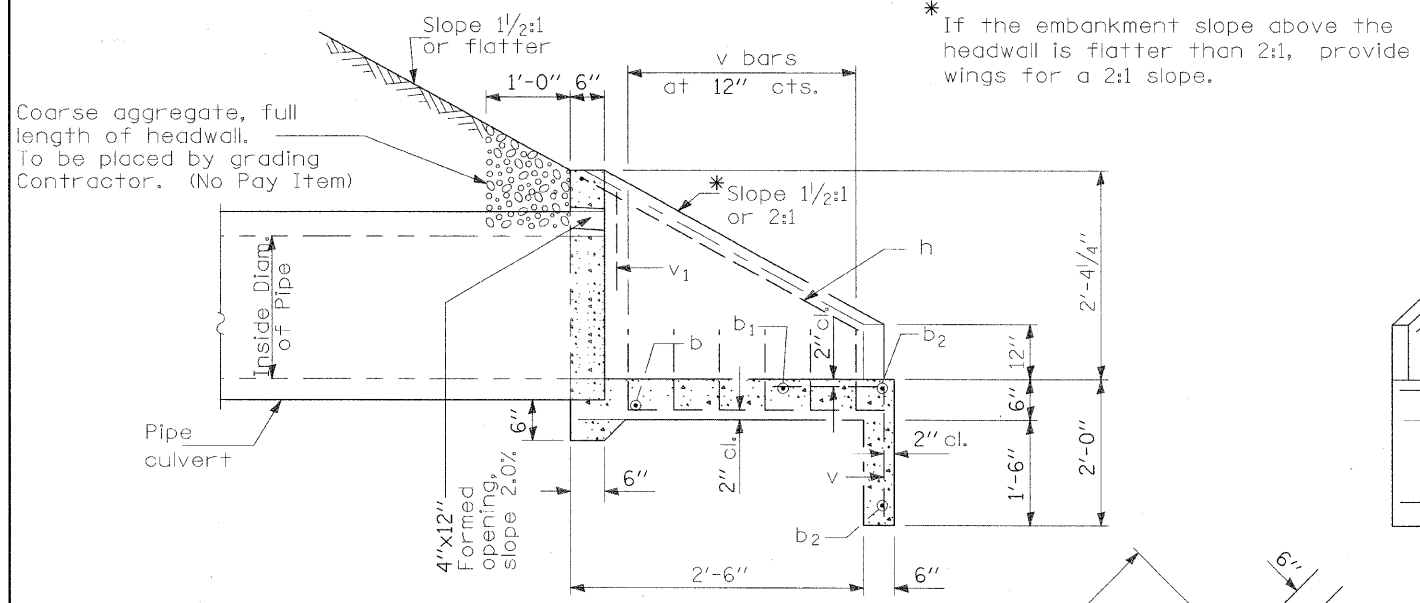
REVISIONS	
NAME	DATE

**URS** 100 SOUTH WACKER DR. STE 500 TEL (312) 939-1000  
CHICAGO, IL 60606 FAX (312) 939-4198

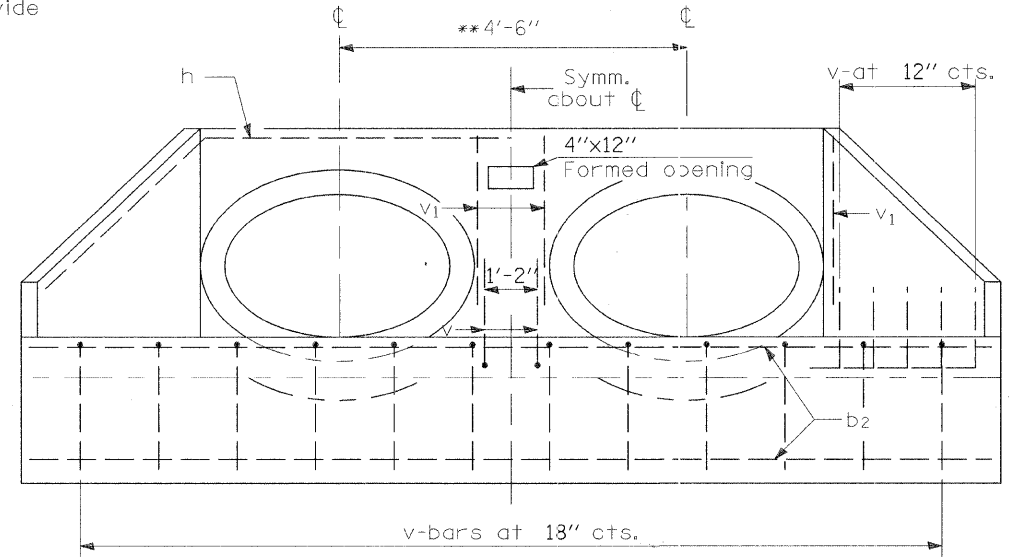
VILLAGE OF WOODRIDGE  
HERITAGE BIKEWAY  
SEGMENT C (SOUTH)  
STA. 25+00 TO STA. 33+95.47

SCALE: VERT. 1" = 5'  
HORIZ. 1" = 20'  
DATE: 9/5/2008

DRAWN BY: DYS  
CHECKED BY: NPP



\* If the embankment slope above the headwall is flatter than 2:1, provide wings for a 2:1 slope.

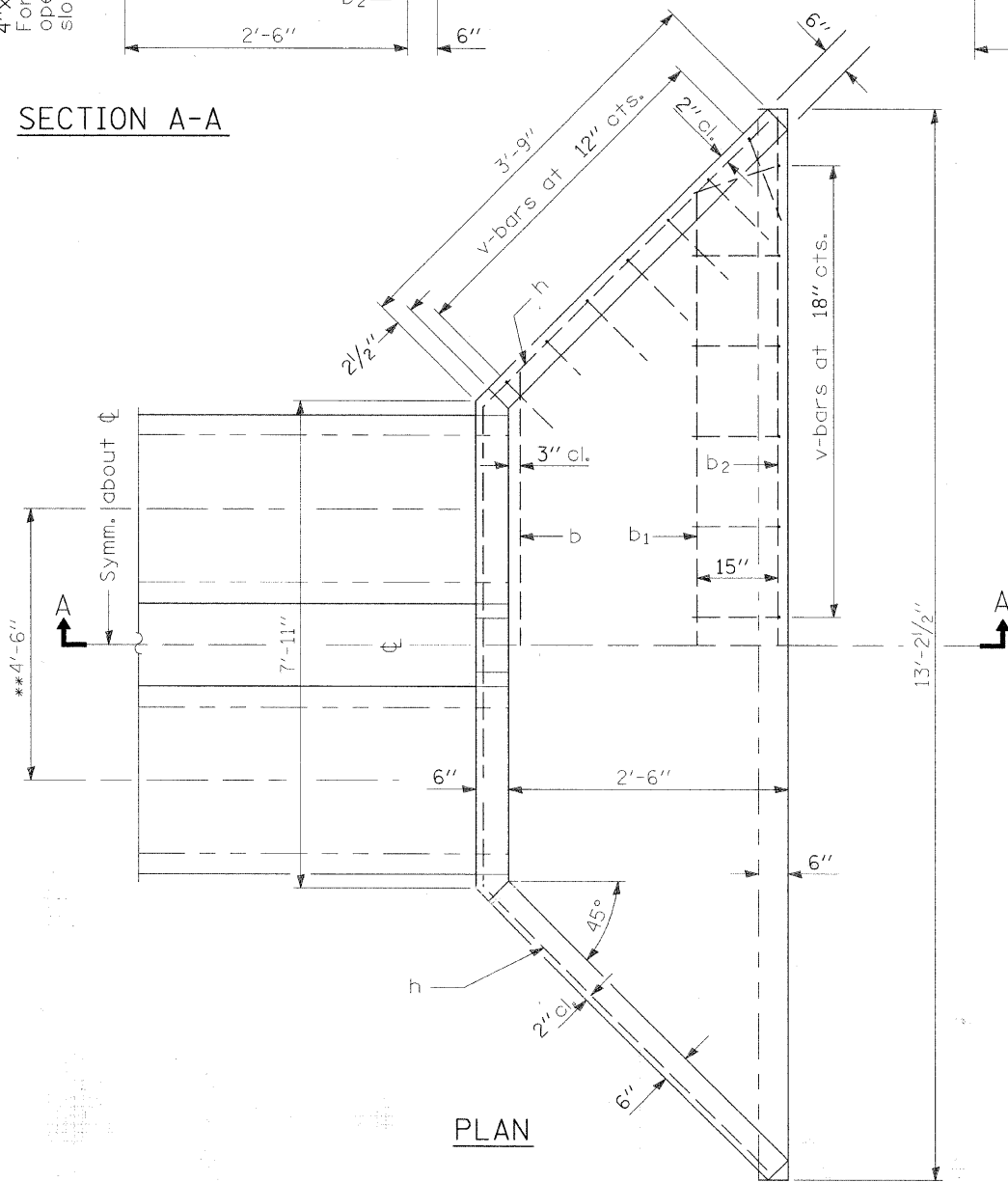
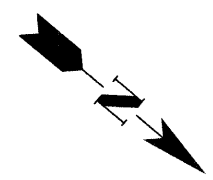


\*\* The Contractor shall verify this dimension in the field.

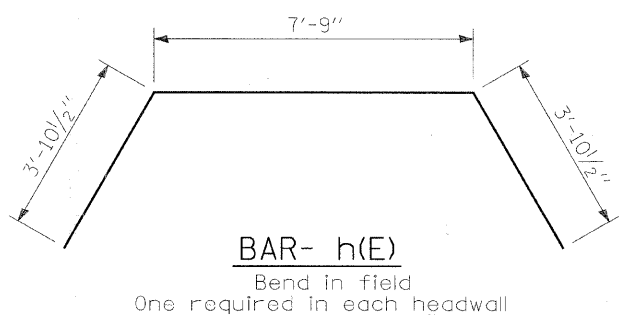
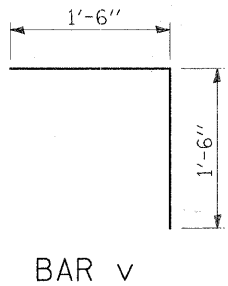
The Contractor shall also verify the condition of the existing end of pipe culvert end section to extend it with compatible new pipe culvert end section without the use of collar.

SECTION A-A

END ELEVATION



PLAN



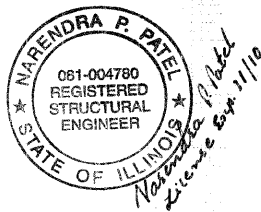
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b(E)	1	#4	8'-3"	—
b <sub>1</sub> (E)	1	#4	10'-3"	—
b <sub>2</sub> (E)	2	#4	12'-9"	—
h(E)	1	#4	15'-6"	⌒
v(E)	19	#4	3'-0"	⌋
v <sub>1</sub> (E)	4	#4	2'-2"	—
Reinforcement Bars, Epoxy Coated		Pound	90	
Concrete Structures		Cu. Yd.	1.6	
End Sections		Each	1	

GENERAL NOTES

All slope ratios are expressed as units of horizontal displacement to units of vertical displacement (H:V).

See Sheet 10 for location of existing culvert.



DRAWN BY . . . DYS . . . . .	DATE . 10/15/08 . . .	URS 100 S. WACKER DR. SUITE 500 CHICAGO IL, 60606 TEL (312)-939-1000 FAX (312)-939-4198	REVISIONS		VILLAGE OF WOODRIDGE HERITAGE BIKEWAY	DRAWING NO. 11 OF 27
			CHECKED BY . . . NPP . . . . .	SCALE NONE . . . . .		



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00055-00-BT		DUPAGE	27	13
STA. 26+00		TO STA. 26+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

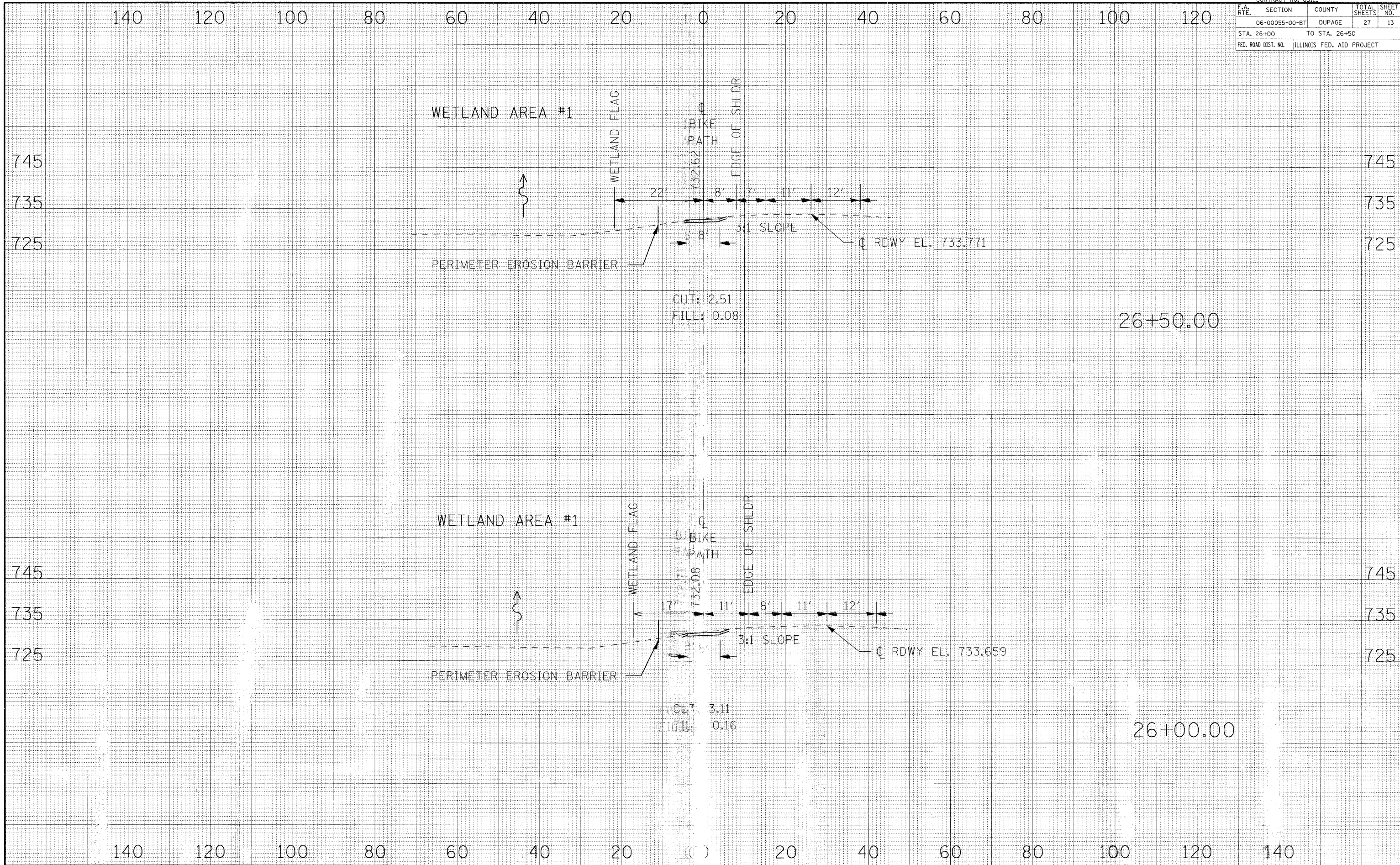
  

NO.	AREAS CHECKED

DATE	BY

NO.	AREAS CHECKED

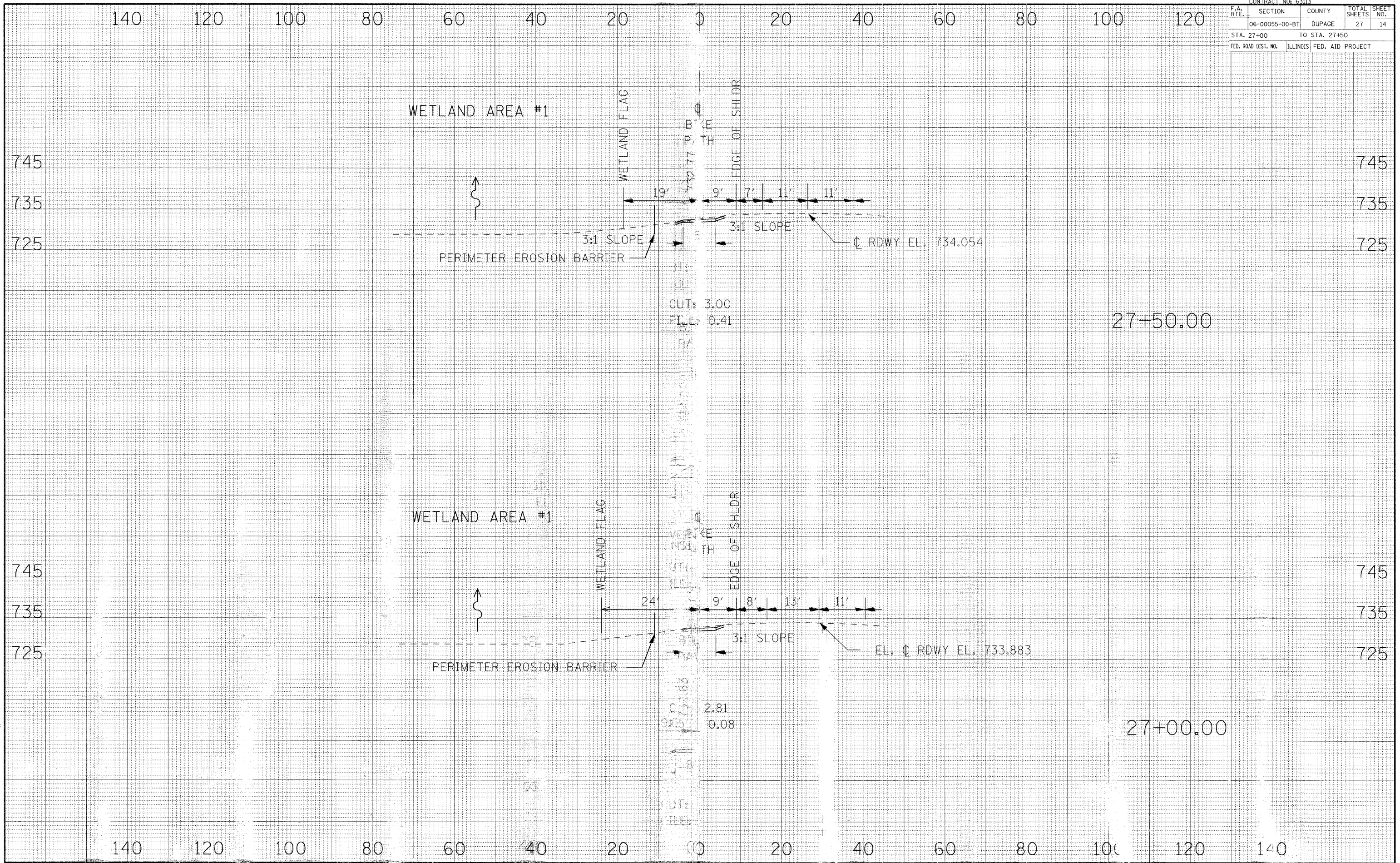


CROSS SECTIONS - HERITAGE BIKEWAY

CONTRACT NO. 63113				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00055-00-BT	DUPAGE	27	14
STA. 27+00		TO STA. 27+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

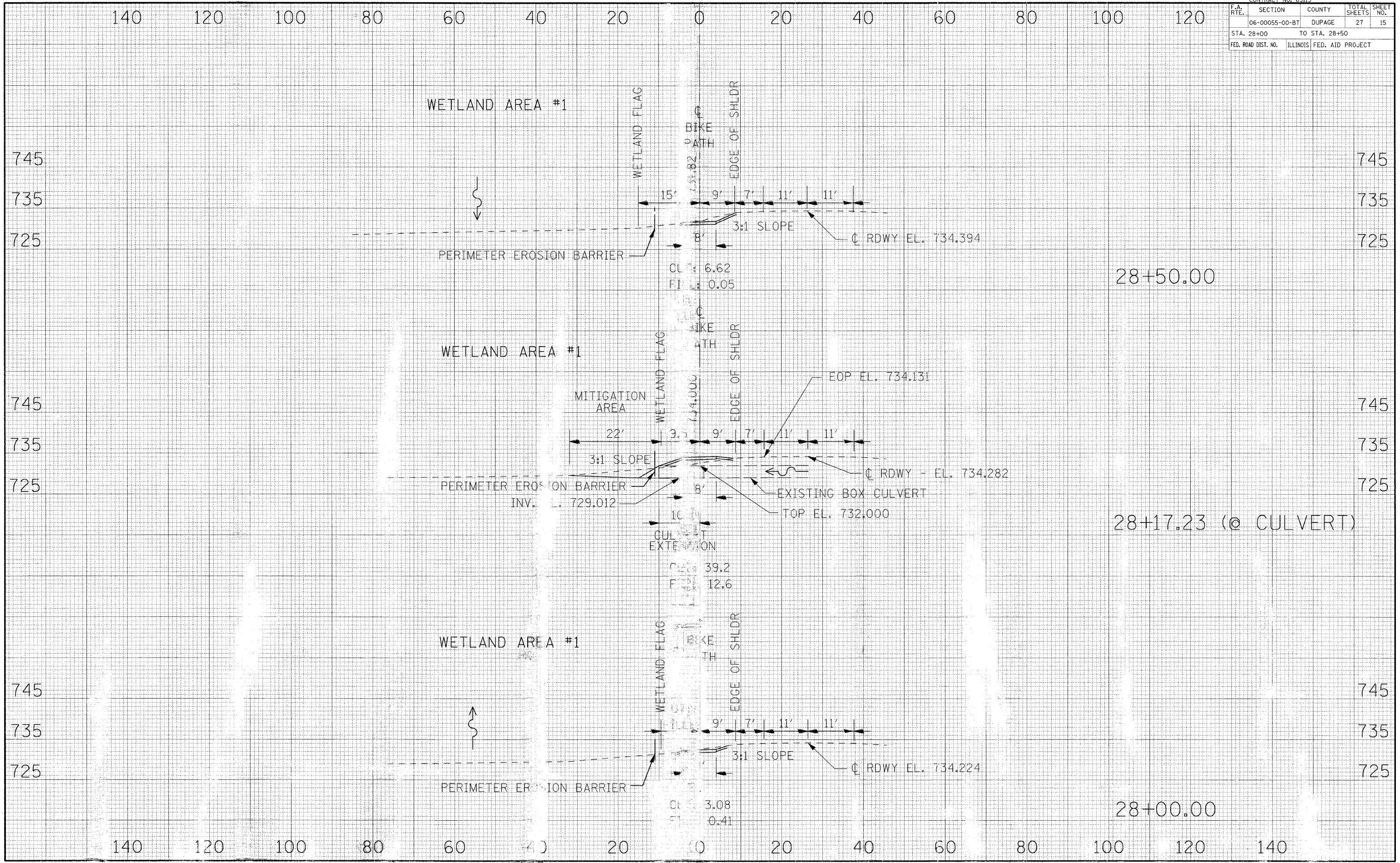


CROSS SECTIONS - HERITAGE BIKEWAY

CONTRACT NO. 63113				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06	00055-00-BT	DUPAGE	27	15
STA. 28+00		TO STA. 28+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



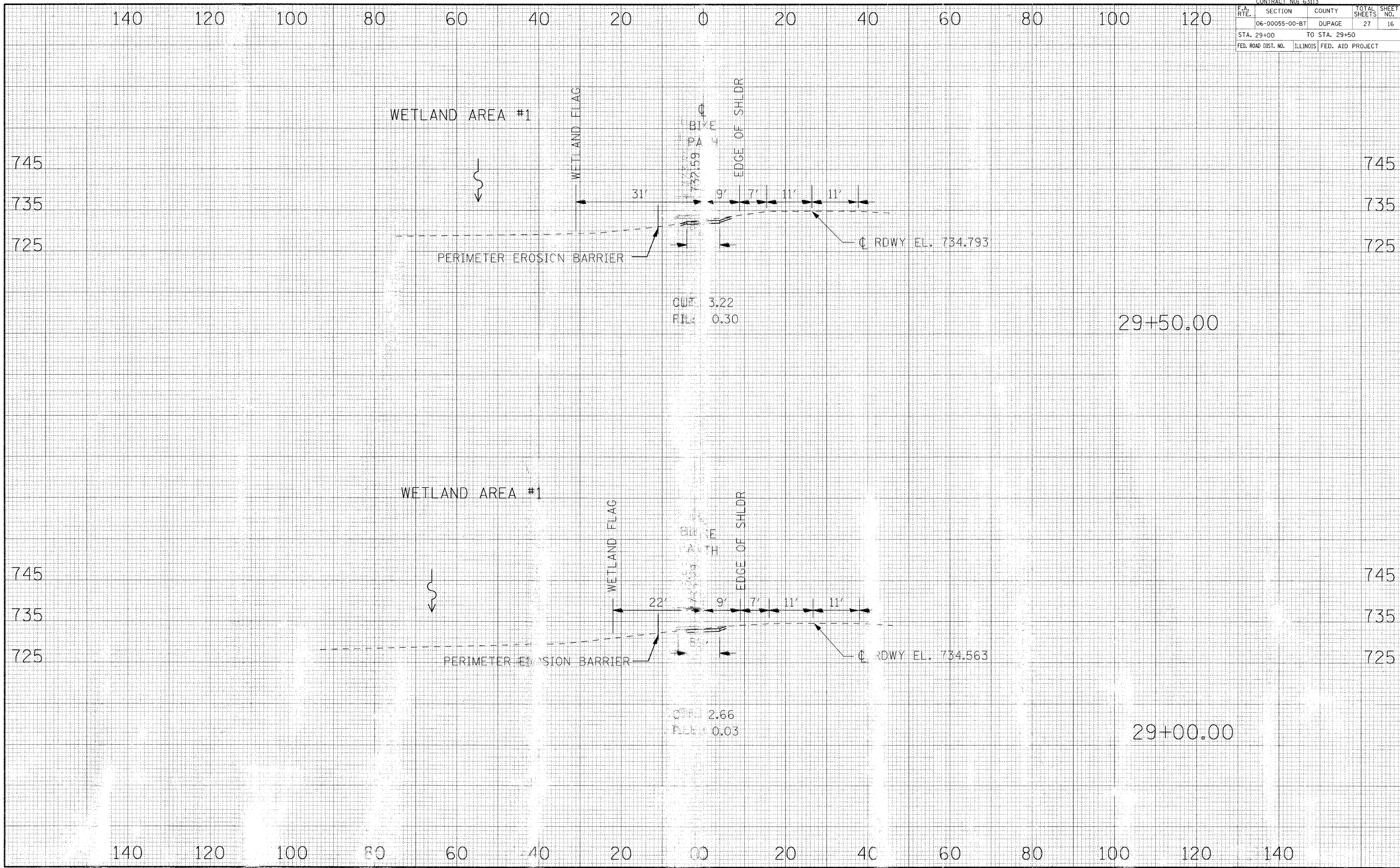
CROSS SECTIONS - HERITAGE BIKEWAY

35-south\_v8.dgn 12/23/2008 12:19:01 PM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00055-00-BT	DUPAGE		27	16
STA. 29+00		TO STA. 29+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY

DATE	BY

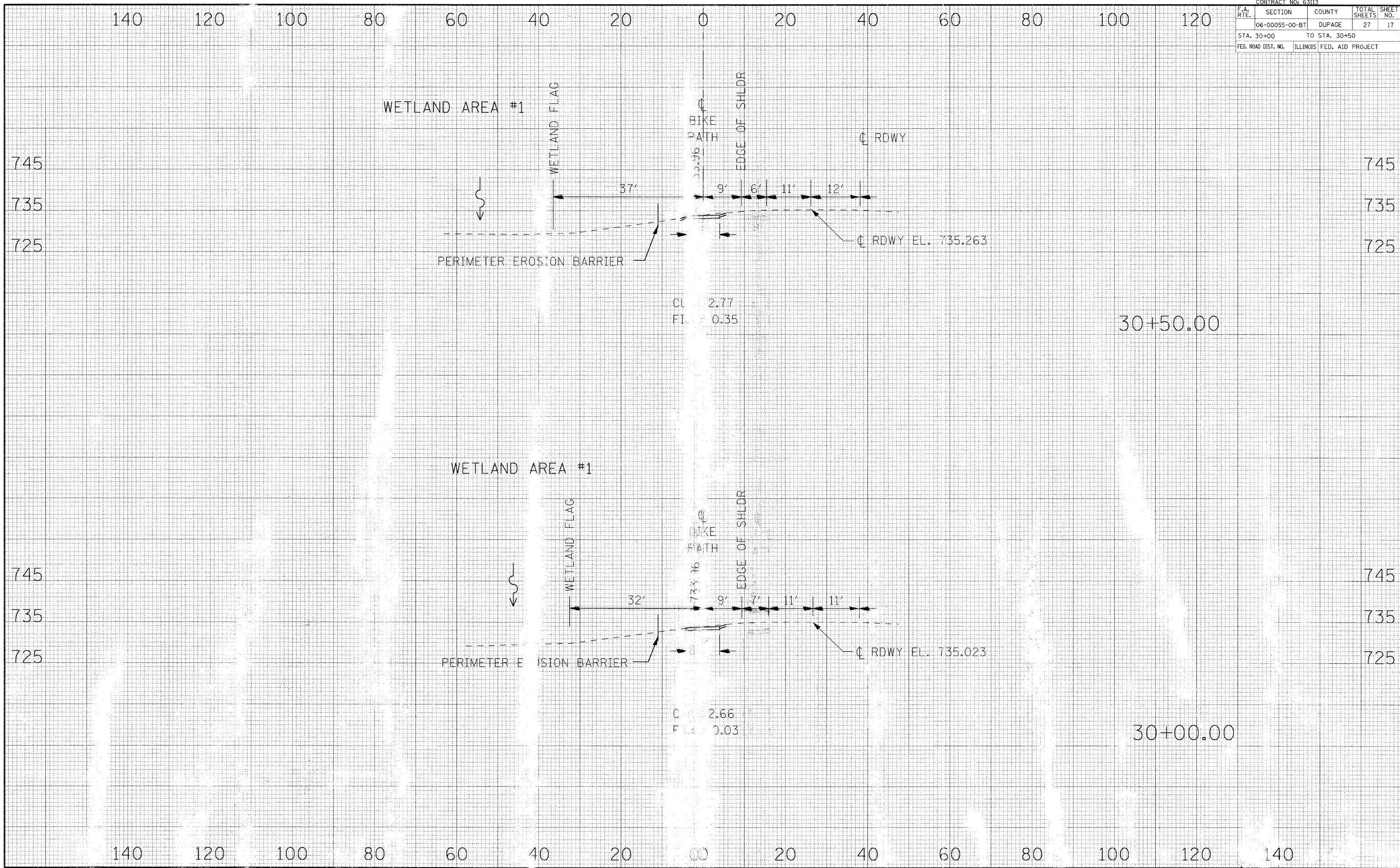




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00055-00-BT	DUPAGE		27	17
STA. 30+00		TO STA. 30+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
SUPPLIED PLOTTED	
NOTE BOOK	
NO. OF SHEETS	
AREAS CHECKED	

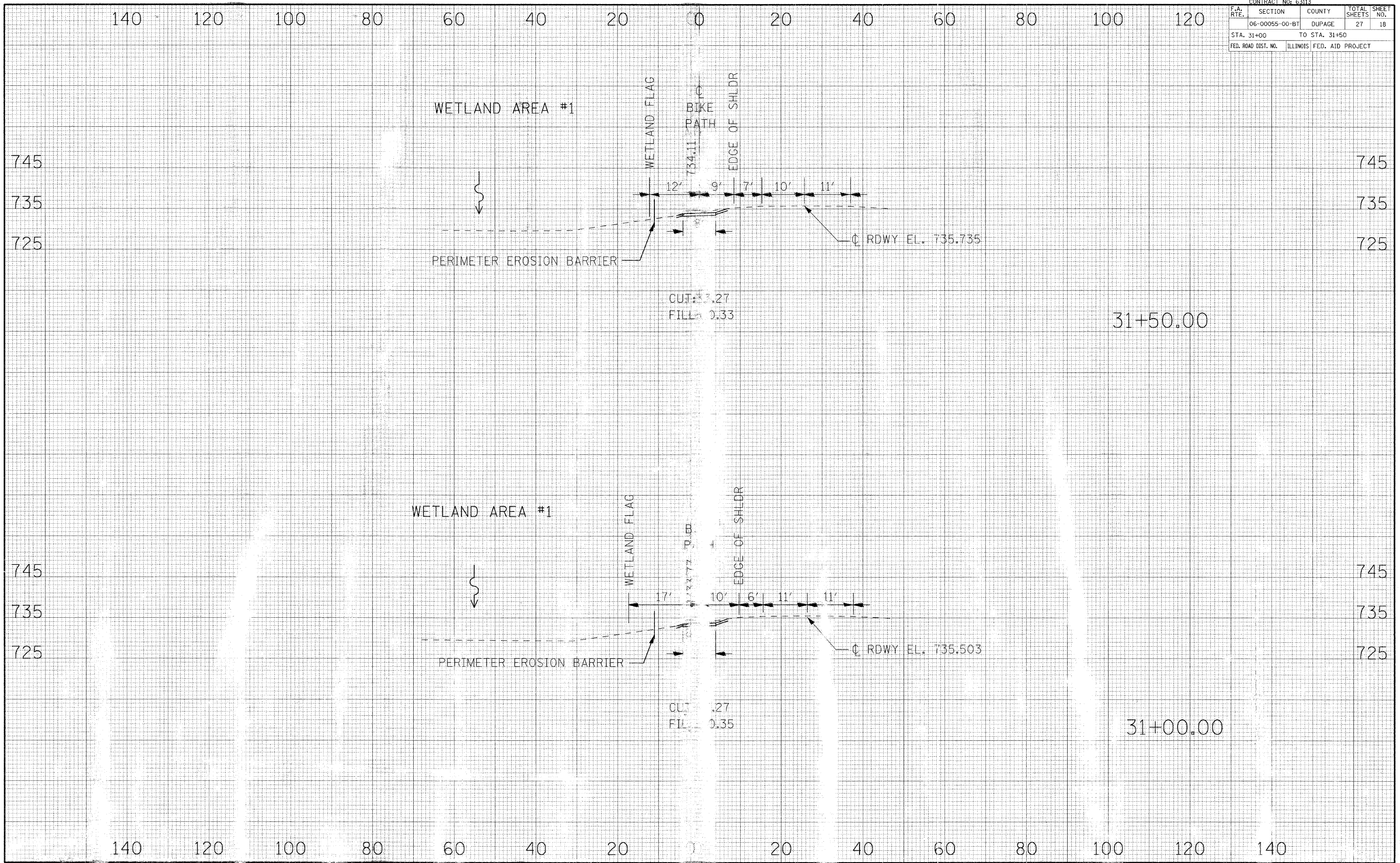
DATE	
BY	
ORIGINAL SURVEY	
SUPPLIED PLOTTED	
NOTE BOOK	
NO. OF SHEETS	
AREAS CHECKED	



CONTRACT NO. 63113			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
	06-00055-00-BT	DUPAGE	27
STA. 31+00		TO STA. 31+50	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

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

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

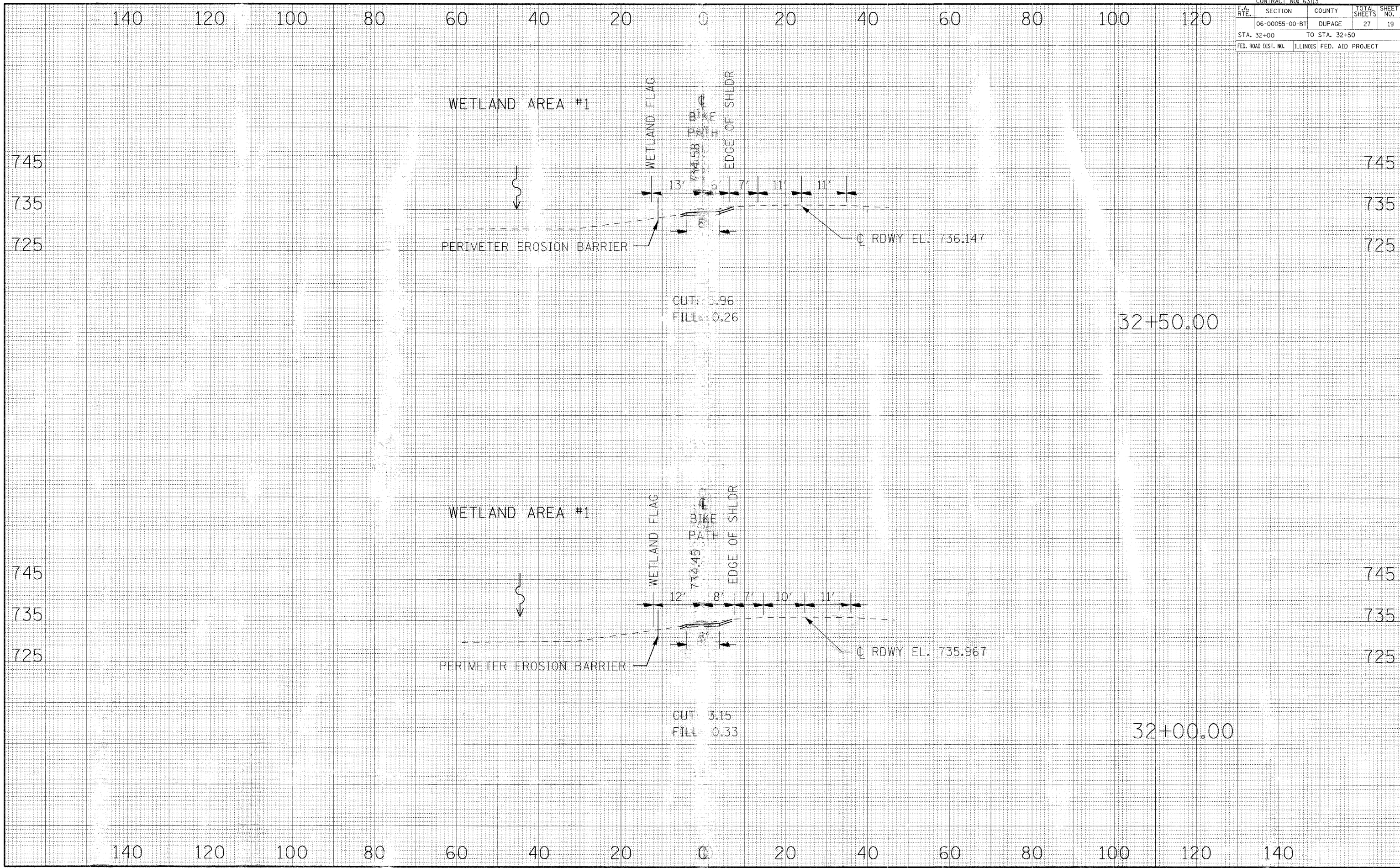


CROSS SECTIONS - HERITAGE BIKEWAY

CONTRACT NO. 63113				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00055-00-BT	DUPAGE		27	19
STA. 32+00		TO STA. 32+50		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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

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



CROSS SECTIONS - HERITAGE BIKEWAY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00055-00-BT	DUPAGE	27	20
STA. 33+00		TO STA. 33+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

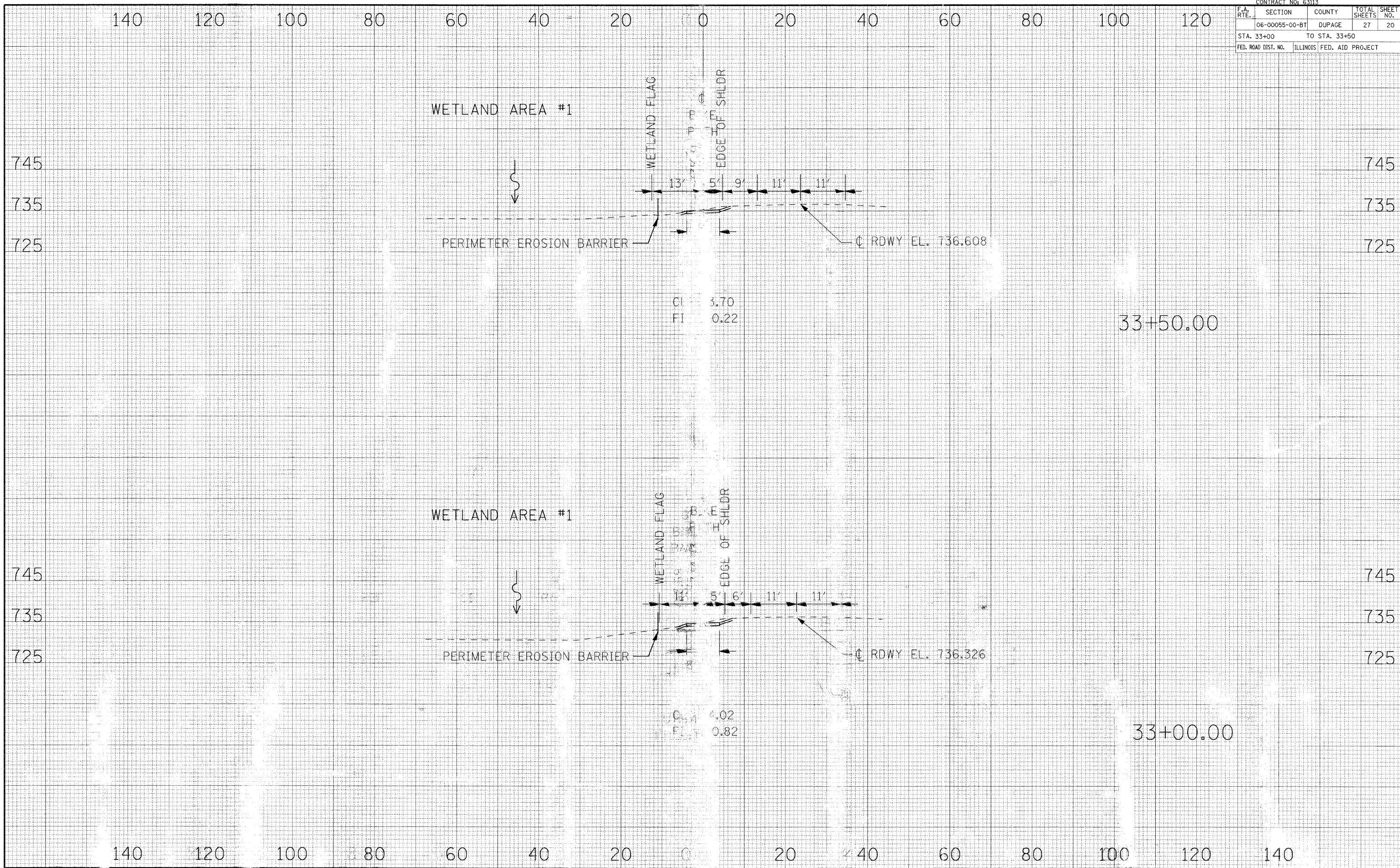
  

NO.	AREAS CHECKED

DATE	BY

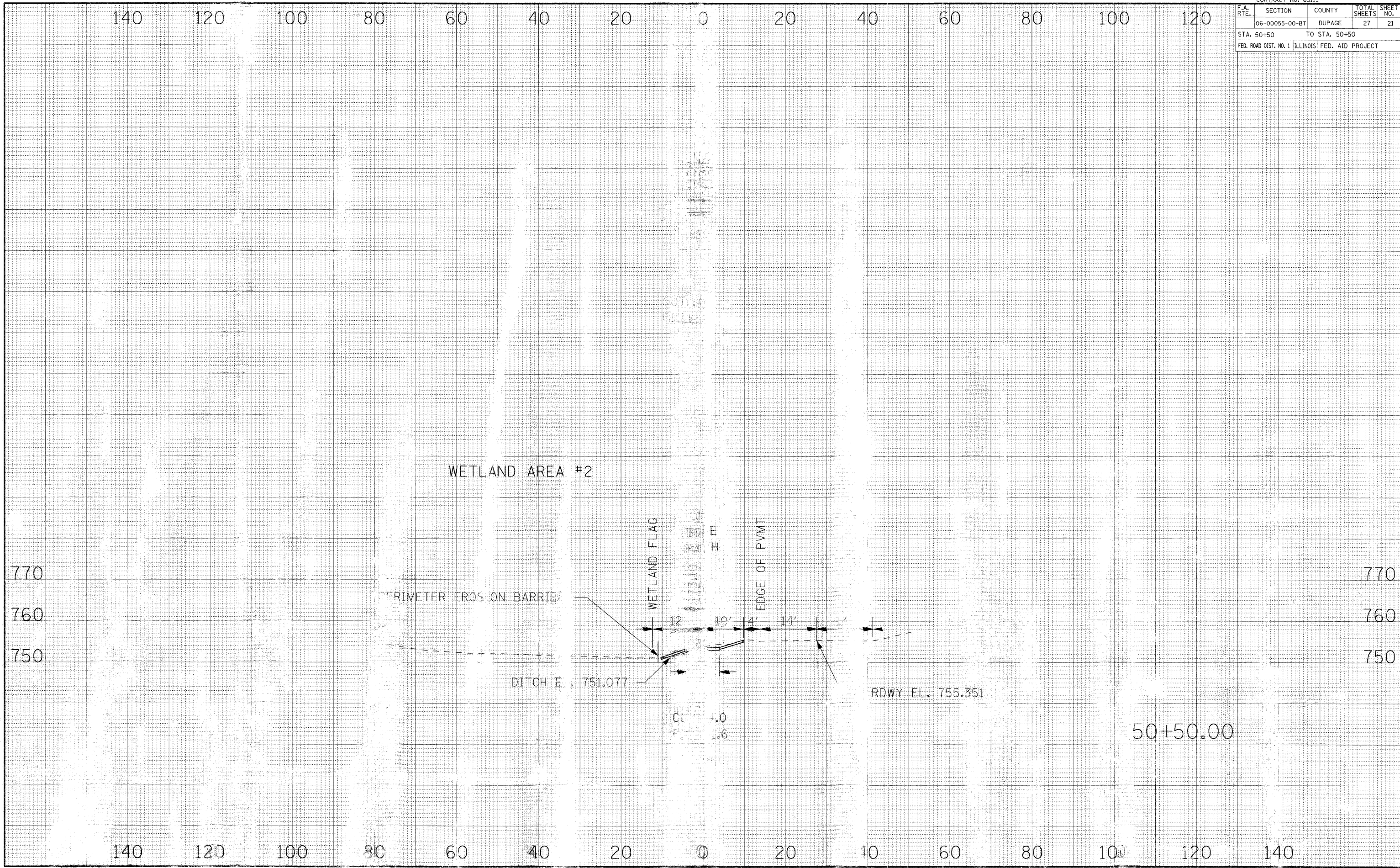
NO.	AREAS CHECKED



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00055-00-BT	DUPAGE	27	21
STA. 50+50		TO STA. 50+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTED	
NO. OF SHEETS	
AREAS CHECKED	

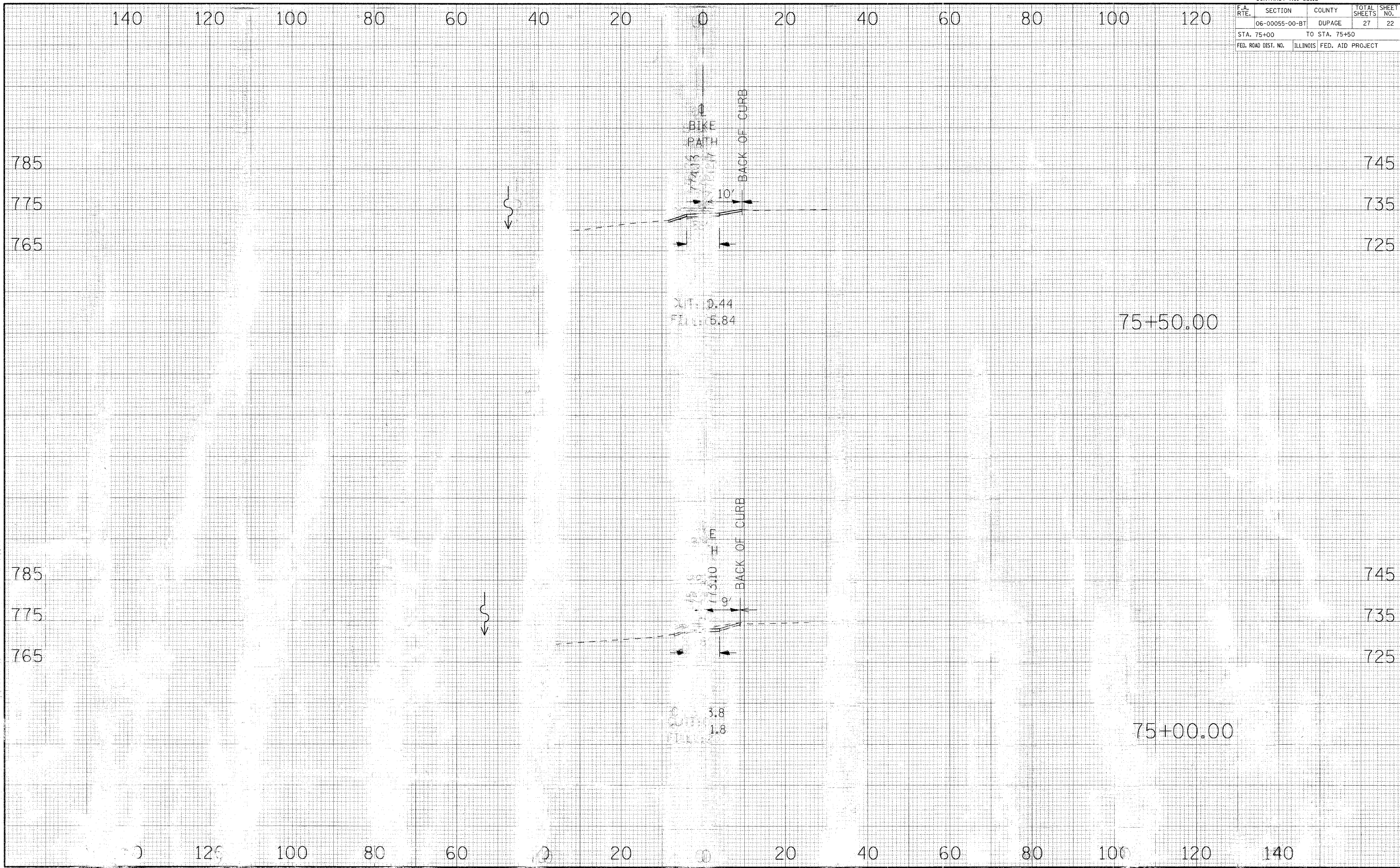
DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NO. OF SHEETS	
AREAS CHECKED	



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00055-00-BT	DUPAGE	27	22
STA. 75+00		TO STA. 75+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
NOTED	
NO. OF AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NO. OF AREAS CHECKED	



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00055-00-BT	DUPAGE		27	23
STA. 76+00		TO STA. 76+50		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	BY

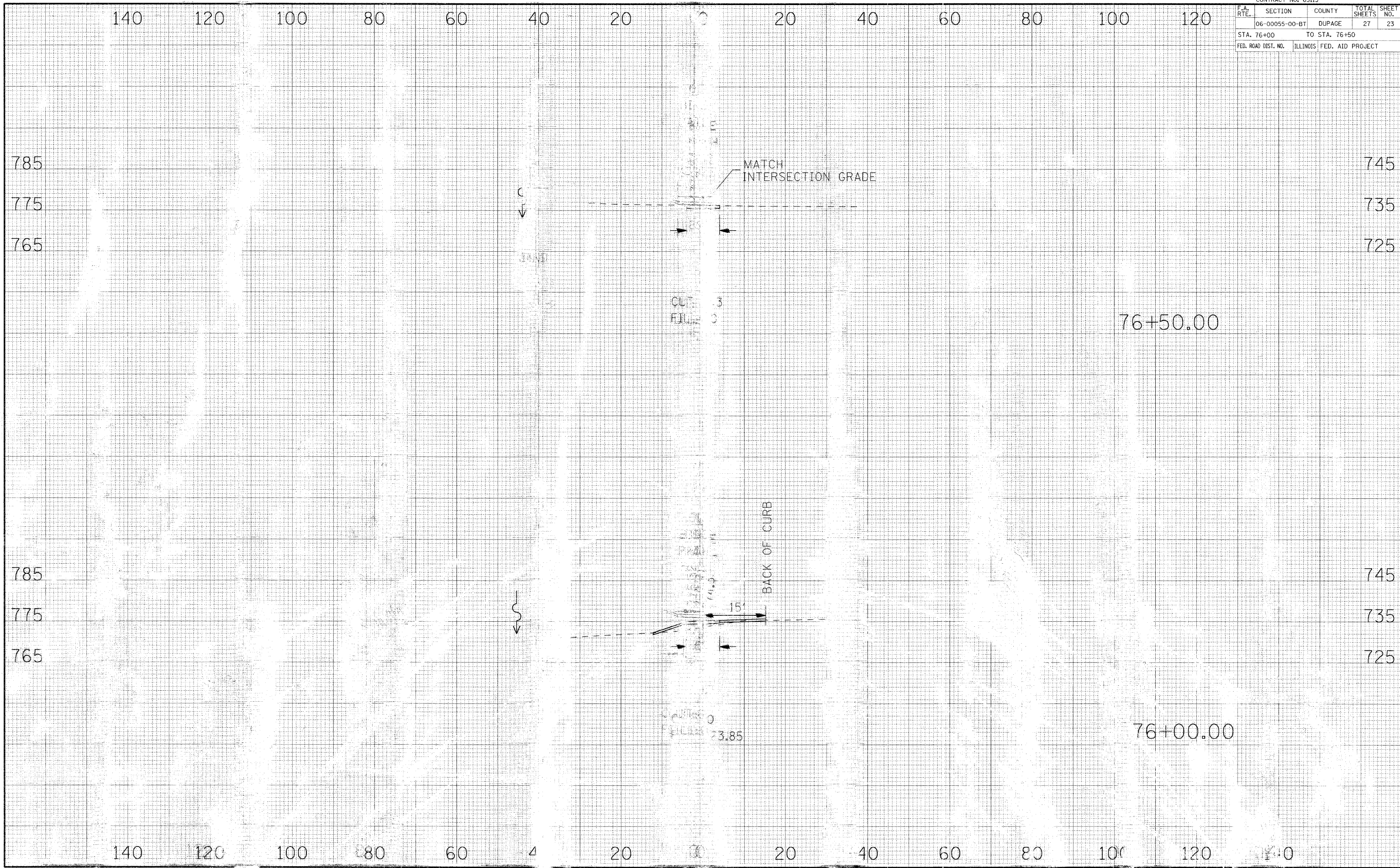
  

FINAL SURVEY	SURVEYED	PLOTTED	TEMP. 'E	AREAS CHECKED

DATE	BY

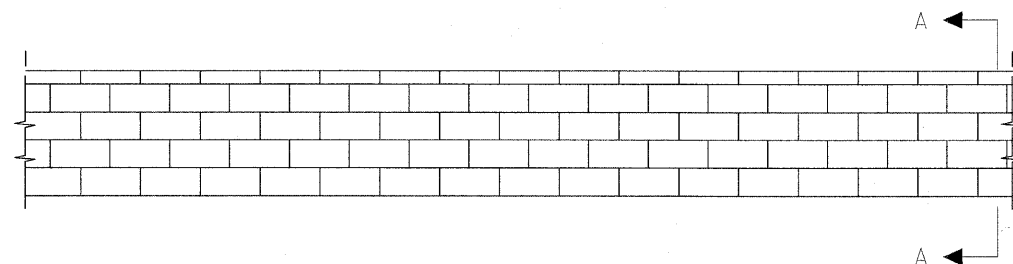
  

ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMP. 'E	AREAS CHECKED

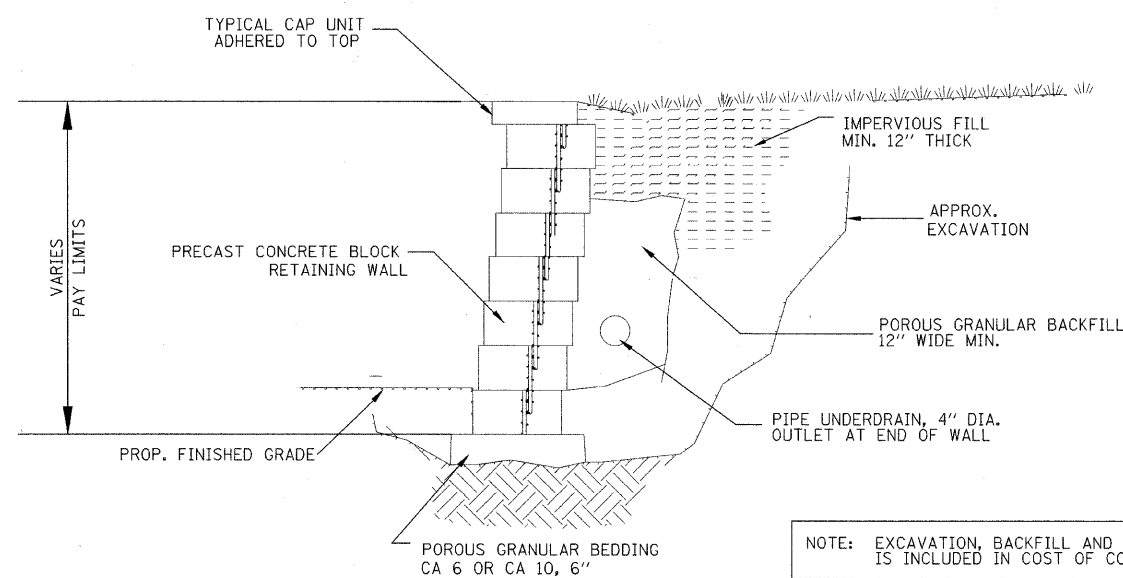








**BLOCK RETAINING WALL DETAIL**



NOTE: EXCAVATION, BACKFILL AND PIPE UNDERDRAIN IS INCLUDED IN COST OF CONCRETE BLOCK RETAINING WALL.

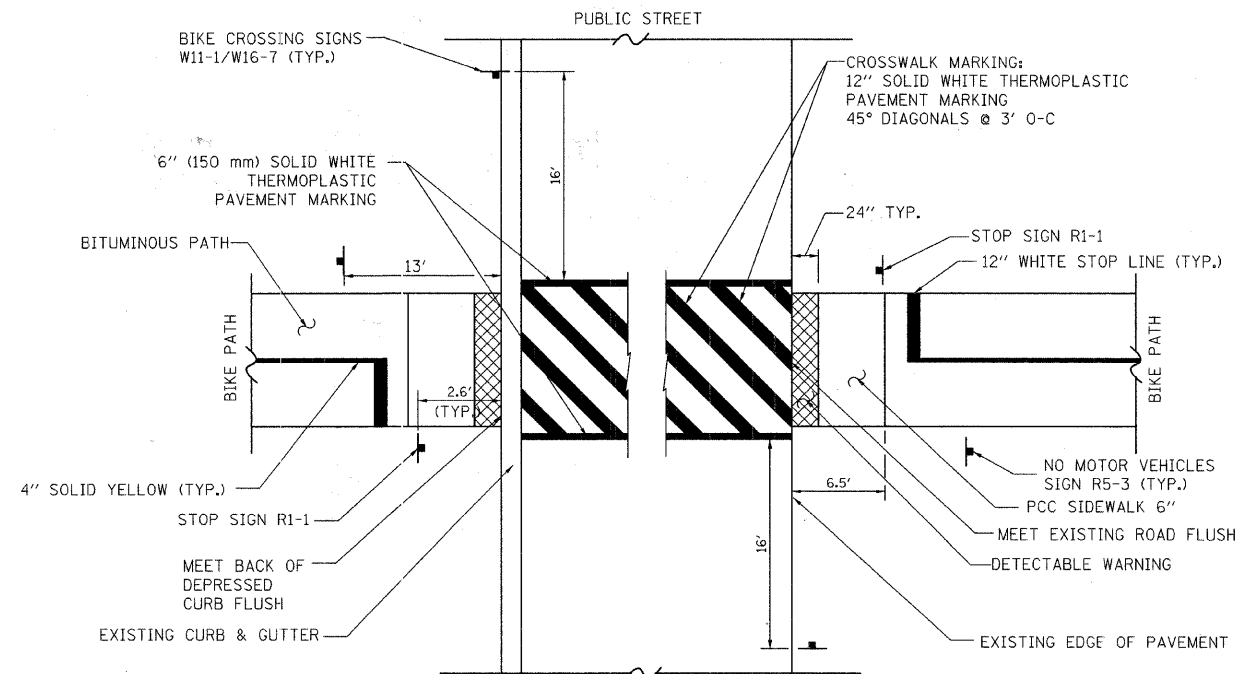
PRECAST CONCRETE BLOCK RETAINING WALL SECTION A-A

**NOTES**

1. THE CONTRACTOR SHALL SUBMIT DESIGN, CONSTRUCTION PLANS WITH MATERIAL INFORMATION & SHOP DRAWINGS SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS TO THE ENGINEER FOR APPROVAL BEFORE ORDERING MATERIALS.
2. RETAINING WALL EQUIVALENT FLUID PRESSURE = 50 (PCF)

**BLOCK RETAINING WALL DETAIL**

NOT TO SCALE



**STREET INTERSECTION SIGN AND PAVEMENT MARKING DETAIL**

NOT TO SCALE

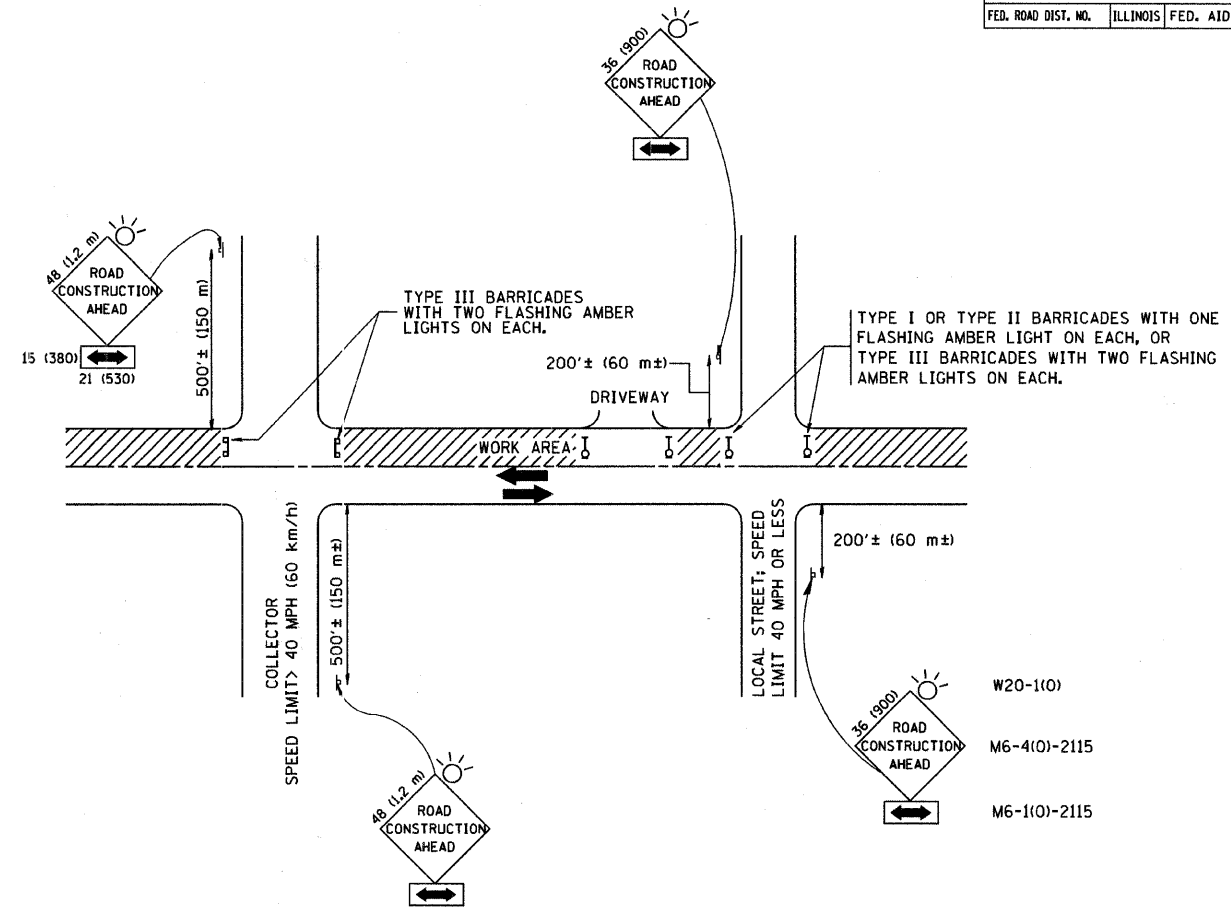
REVISIONS	
NAME	DATE

**URS** 100 S. WACKER DR., SUITE 500 TEL (312) 939-1000  
CHICAGO IL, 60606 FAX (312) 939-4198

VILLAGE OF WOODRIDGE  
HERITAGE BIKEWAY  
MISCELLANEOUS  
DETAILS

SCALE: DRAWN BY: YOO  
DATE: CHECKED BY: DDL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			27	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

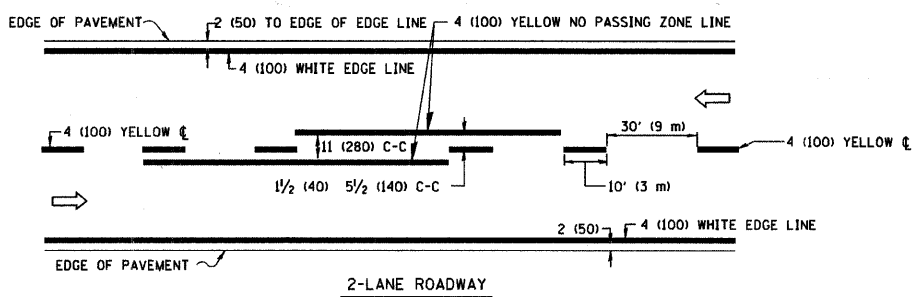
SCALE: NONE

DRAWN BY

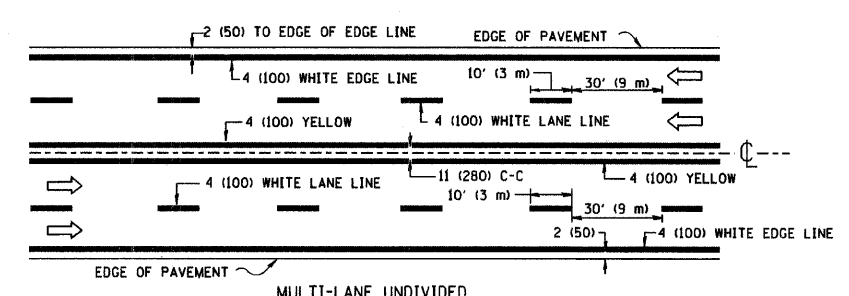
CHECKED BY

TC-10

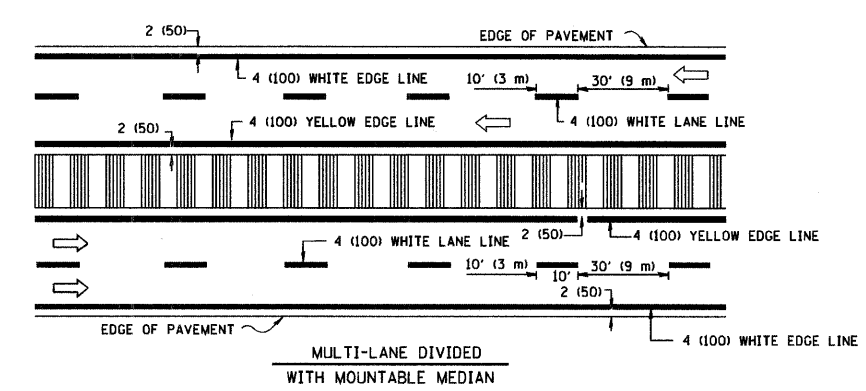
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DePue	27	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



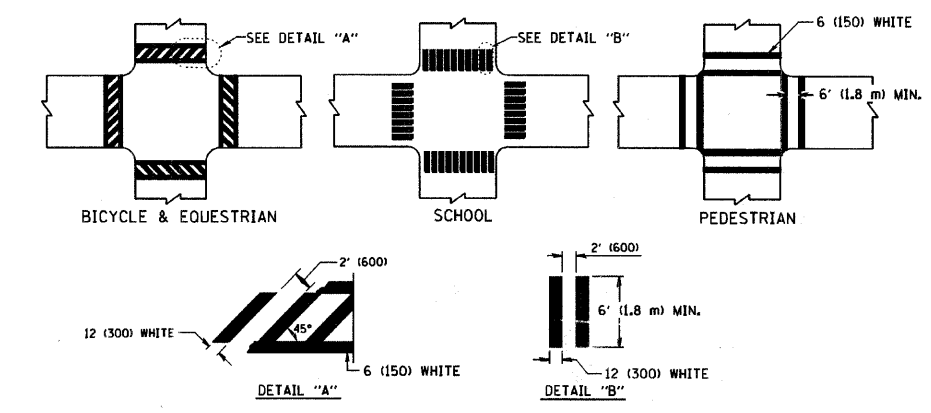
MULTI-LANE UNDIVIDED



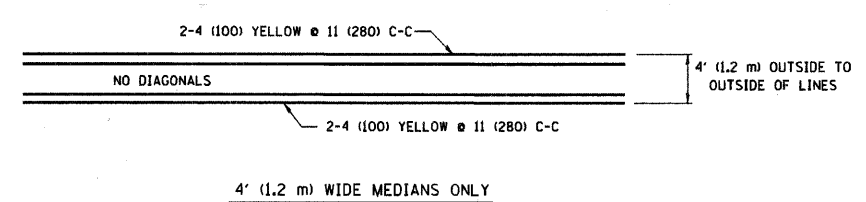
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

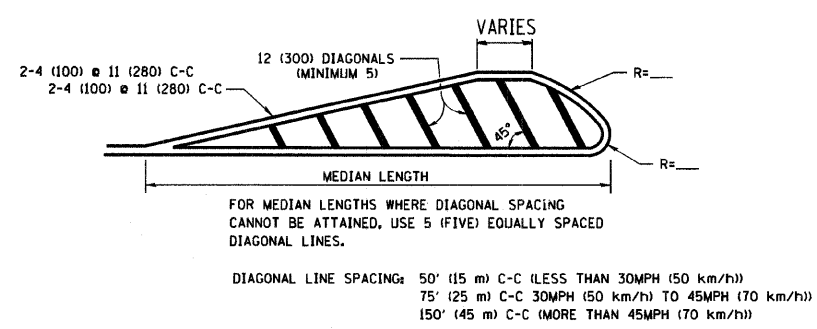
TYPICAL LANE AND EDGE LINE MARKING



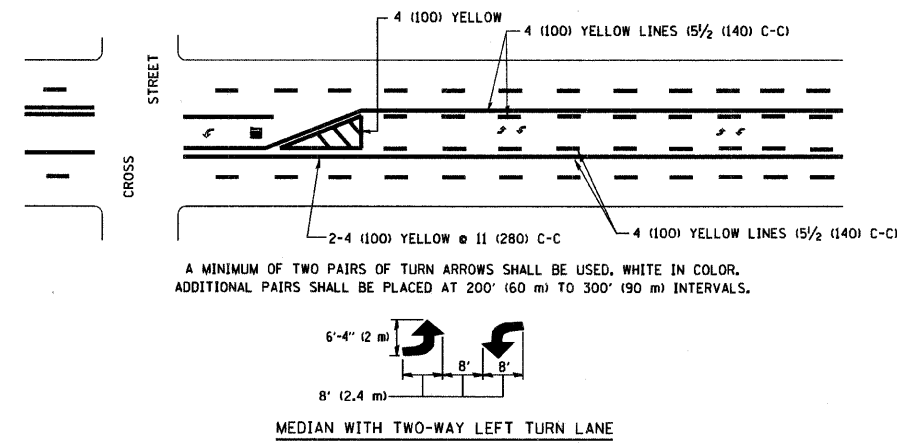
TYPICAL CROSSWALK MARKING



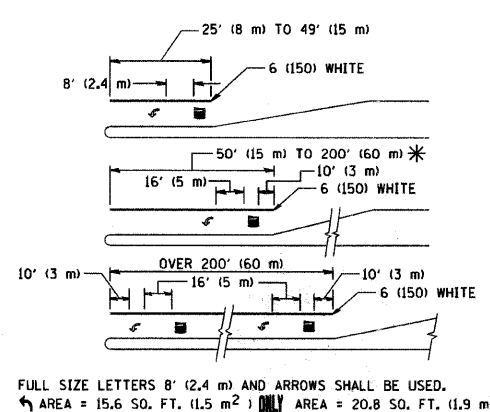
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



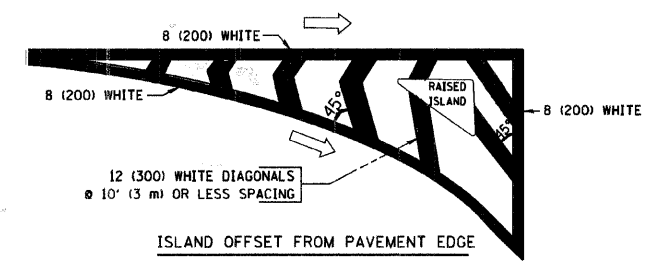
TYPICAL PAINTED MEDIAN MARKING



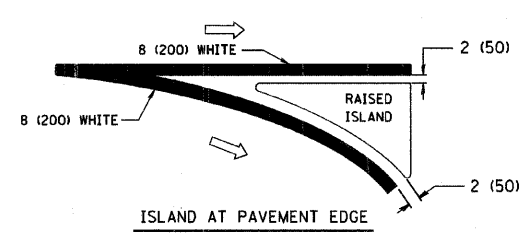
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT; PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT ONE  
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE  
 DRAWN BY CADD  
 CHECKED BY  
 TC-13

PLOT DATE = 2/16/2007  
 FILE NAME = K:\Projects\13.dgn  
 PLOT SCALE = 80/800 / IN.  
 USER NAME = bawnd