

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	1
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A40	

CONSULTANT ENGINEER: REID T. MAGNER, P.E. CIVILTECH ENGINEERING, INC.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**  
FAU RTE 1223 (WASHINGTON STREET)  
ATKINSON ROAD TO LANцер LANE  
BIKE PATH  
SECTION 09-00135-11-BT  
PROJECT NO. CMM-9003 (561)  
LAKE COUNTY  
C-91-326-10



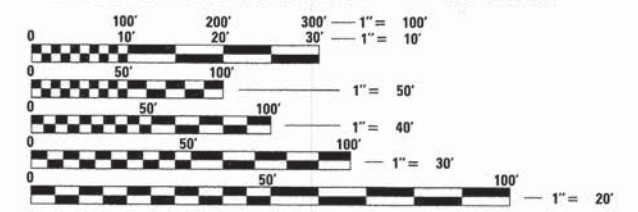
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\*See General Notes Sheet for list of HIGHWAY STANDARDS

**WASHINGTON STREET DESIGN DESIGNATION = MINOR ARTERIAL URBAN**  
**WASHINGTON STREET POSTED SPEED = 45 MPH**  
**WASHINGTON STREET ADT = 18,300 VPD**

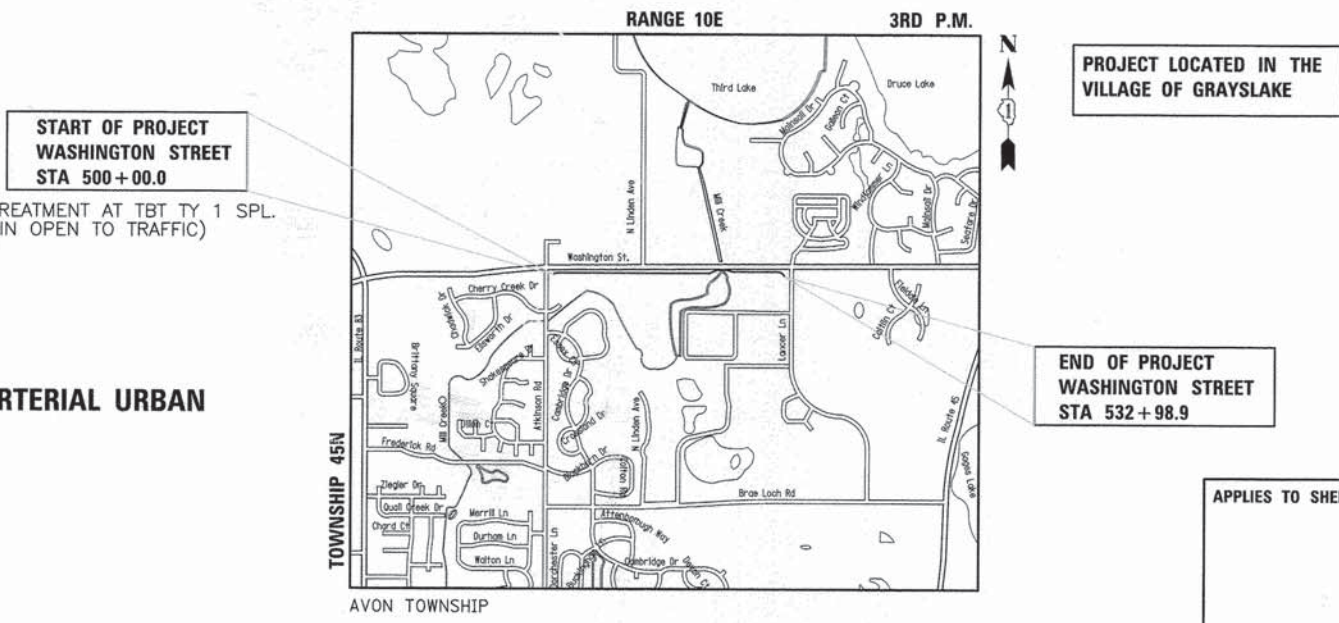
**BIKEPATH DESIGN SPEED = 20 MPH**



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.

**J.U.L.I.E.**  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1.800.892.0123 OR 811

**CONTRACT NO. 61A40**



PROJECT LOCATED IN THE VILLAGE OF GRAYSLAKE

END OF PROJECT WASHINGTON STREET STA 532+98.9

**PROJECT LENGTH:**

WASHINGTON STREET (STA 500+00.0 TO STA 532+98.9) - 3,298.9 FT (0.62 MILE) (GROSS & NET)  
 PROJECT TOTAL - 3,298.9 FT (0.62 MILE) (GROSS & NET)

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

Approved: March 21, 2014  
*Paul Wittig*  
 Lake County Div. of Transportation, County Engineer

Passed: April 3, 2014  
*Christopher Hart*  
 District One Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: April 4, 2014  
*John F. Williams Jr.*  
 Deputy Director of Highways, Region One Engineer

APPLIES TO SHEETS 1-32, 51-69

*Reid T. Magner*  
 REGISTERED P.E., STATE OF ILLINOIS EXPIRES 11/30/2015

APPLIES TO SHEETS 42-50

*G. Battersby*  
 REGISTERED S.E., STATE OF ILLINOIS EXPIRES 11/30/2016

APPLIES TO SHEETS 33-41

*Joseph J. Emry*  
 REGISTERED P.E., STATE OF ILLINOIS EXPIRES 11/30/2015



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# GENERAL NOTES

## STORM SEWERS, STRUCTURES, AND UTILITIES (CONTINUED)

25. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING EXCAVATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A DEWATERING PLAN IF NECESSARY IN COMPLIANCE WITH NPDES REGULATIONS THAT SHALL BE SUBMITTED TO THE ENGINEER, AND THE STORMWATER MANAGEMENT COMMISSION, FOR APPROVAL. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID FOR DEWATERING.
26. REMOVAL OF FLARED END SECTION TO BE INCLUDED IN THE COST OF STORM SEWER REMOVAL.

## TREE REMOVAL, CLEARING AND HEDGE REMOVAL

27. ALL TREES ARE DESIGNATED TO BE SAVED UNLESS OTHERWISE NOTED ON THE PLANS, AND SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 201 OF THE STANDARD SPECIFICATIONS.
28. ALL CLEARING AND REMOVAL OF BUSHES, HEDGES AND TREES UNDER 6" IN DIAMETER SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION".
29. TEMPORARY FENCE SHALL BE PLACED AROUND ALL TREES THAT ARE TO BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR MORE DETAIL.

## SIGNING, STRIPING & LANDSCAPING

30. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET OR STORE ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. THIS WORK WILL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT'S TRAFFIC CONTROL ITEMS.
31. WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS.
32. THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
33. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR PERIODS OF SHORT DURATION.
34. THE CONTRACTOR SHALL PROVIDE AS-BUILT DATA TO DOCUMENT THE FLOOD PLAIN FILL. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER TO COLLECT DATA AND DOCUMENT WITH PLANS AND CROSS -SECTIONS THE RELATED FLOODPLAIN IMPACTS (FILL) TO THE LAKE COUNTY STORMWATER MANAGEMENT COMMISSION. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF MOBILIZATION.
35. ALL SIGNS WILL BE INSTALLED BY LCDOT FORCES. EXISTING SIGNS TO BE REMOVED SHOULD BE TAKEN DOWN BY THE CONTRACTOR AND SET ASIDE FOR LCDOT TO PICKUP.

## SURVEY

36. VERTICAL CONTROL REFERENCED TO NGVD 1929. ELEVATIONS ARE BASED ON THE FOUND LAKE COUNTY DIVISION OF TRANSPORTATION BENCH MARK 1-41A, PUBLISHED NGVD '29 ELEVATION 782.03

BENCHMARK TABLE (BASED ON BIKE PATH ALIGNMENT)			
NUMBER	STA & OFFSET	DESCRIPTION	ELEVATION
T.B.M. #1	500+00.00 125.25' LT	RAILROAD SPIKE (SET) IN SECOND POWER POLE SOUTH OF WASHINGTON STREET ON THE WEST SIDE OF ATKINSON ROAD	778.39
T.B.M. #2	517+32.32 16.00' RT	RAILROAD SPIKE (SET) IN THE LAST POWER POLE WEST OF LANCER LANE ON SOUTH SIDE OF WASHINGTON STREET.	774.62
T.B.M. #3	532+30.79 6.29' RT	RAILROAD SPIKE (SET) IN POWER POLE WITH LIGHT IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF WASHINGTON STREET & LANCER LANE.	775.49

37. BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM NAD 83(2007) EAST ZONE.
38. SURFACE COORDINATES ARE SHOWN.

## POINTS OF CONTACT:

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VILLAGE OF GRAYSLAKE  
PUBLIC WORKS DEPARTMENT  
585 BERRY AVENUE  
GRAYSLAKE, IL 60030  
(847) 223.8515

DATE	BY
PLAN	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	

DATE	BY
PROFILE	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	
NO. _____	

PLAN SURVEYED BY DATE  
 CHECKED BY DATE  
 ALIGNED CHECKED BY DATE  
 PT. OF WAY CHECKED BY DATE  
 NO. 4500 FILE NAME

PROFILE SURVEYED BY DATE  
 CHECKED BY DATE  
 GRADES CHECKED BY DATE  
 B.M. NOTED BY DATE  
 STRUCTURE NOTED BY DATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	50	50
20101000	TEMPORARY FENCE	FOOT	200	200
20101200	TREE ROOT PRUNING	EACH	12	12
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10	10
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	2	2
20200100	EARTH EXCAVATION	CU YD	131	131
20400800	FURNISHED EXCAVATION	CU YD	2,873	2,873
20700220	POROUS GRANULAR EMBANKMENT	CU YD	75	75
20800150	TRENCH BACKFILL	CU YD	9	9
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,829	1,829
25000210	SEEDING, CLASS 2A	ACRE	1.75	1.75
25000310	SEEDING, CLASS 4	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	158	158
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	158	158
25100630	EROSION CONTROL BLANKET	SQ YD	7,547	7,547
25200200	SUPPLEMENTAL WATERING	UNIT	10	10
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	40	40
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	175	175
28000305	TEMPORARY DITCH CHECKS	FOOT	140	140
28000400	PERIMETER EROSION BARRIER	FOOT	3,226	3,226
28000510	INLET FILTERS	EACH	19	19
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	172	172
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	68	68
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	3,833	3,833
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	648	648

^ DENOTES SPECIALTY ITEM  
 ▲ DENOTES CONSTRUCTION TYPE CODE 0042  
 \* DENOTES SPECIAL PROVISION

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
42001300	PROTECTIVE COAT	SQ YD	484	484
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	610	610
42400800	DETECTABLE WARNINGS	SQ FT	24	24
44000100	PAVEMENT REMOVAL	SQ YD	226	226
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	409	409
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SQ YD	20	20
50102400	CONCRETE REMOVAL	CU YD	11.5	11.5
50200100	STRUCTURE EXCAVATION	CU YD	333	333
50300225	CONCRETE STRUCTURES	CU YD	89.9	89.9
50300300	PROTECTIVE COAT	SQ YD	172	172
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8,050	8,050
50901750	PARAPET RAILING	FOOT	260	260
54261324	CONCRETE END SECTION, STANDARD 542001, 24", 1:3	EACH	2	2
54260311	TRAVERSABLE PIPE GRATE	FOOT	20	20
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	155	155
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	56	56
55100500	STORM SEWER REMOVAL 12"	FOOT	23	23
55100900	STORM SEWER REMOVAL 18"	FOOT	12	12
55101200	STORM SEWER REMOVAL 24"	FOOT	14	14
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	109	109
60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	1
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1
60264140	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1



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 www.civiltechinc.com

DESIGNED - JRR REVISIONS -  
 DRAWN - JRR REVISIONS -  
 CHECKED - RTM REVISIONS -  
 DATE - 03/24/2014 REVISIONS -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	4
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN SURVEYED \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 ALIGNED CHECKED \_\_\_\_\_  
 PT. OF WAY CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_  
 SURVEYOR'S NAME \_\_\_\_\_

PROFILE SURVEYED \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 GRADES CHECKED \_\_\_\_\_  
 B.M. NOTED \_\_\_\_\_  
 NO. \_\_\_\_\_  
 STRUCTURE NOTED \_\_\_\_\_

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
60255500	MANHOLES TO BE ADJUSTED	EACH	5	5
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1
60500050	REMOVING CATCH BASINS	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	523	523
^ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1
^ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1
^ 63200310	GUARDRAIL REMOVAL	FOOT	288	288
67100100	MOBILIZATION	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3
^ 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	768	768
* ^ 78200420	GUARDRAIL MARKERS, TYPE B	EACH	4	4
* ^ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1
^ 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	16	16
* ^ 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
^ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	5	5
^ 87900200	DRILL EXISTING HANDHOLE	EACH	5	5
^ 89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1	1
^ 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1	1
^ 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2	2
^ 89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1	1
^ 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	362	362
* ^ 89502376	REBUILD EXISTING HANDHOLE	EACH	5	5
* ^ 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	5
^ A2005016	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND	EACH	4	4
^ A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5

^ DENOTES SPECIALTY ITEM  
 Δ DENOTES CONSTRUCTION TYPE CODE 0042  
 \* DENOTES SPECIAL PROVISION

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0028 ROADWAY
^ A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4
* X0426200	DEWATERING	L SUM	1	1
* X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50	50
* ^ X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	100	100
* X2800302	TEMPORARY DITCH CHECKS (SPECIAL)	FOOT	140	140
* X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8,625	8,625
* X6013600	PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	1,262	1,262
* X6370050	CONCRETE BARRIER WALL (SPECIAL)	FOOT	260	260
* X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	6	6
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
* ^ XX001249	ORNAMENTAL FENCE	FOOT	237	237
* ^ XX003668	PRECONSTRUCTION VIDEO TAPING	L SUM	1	1
* XX006658	FLOCCULATION LOGS	EACH	5	5
* XX006659	FLOCCULATION POWDER	POUND	15	15
* ^ XX006698	TREE PROTECTION AND PRESERVATION	EACH	10	10
* ^ XX007023	STAINING CONCRETE STRUCTURES	SQ YD	139	139
* XX008003	FORM LINER TEXTURED SURFACE, SPECIAL	SQ FT	672	672
* Z0022800	FENCE REMOVAL	FOOT	120	120
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
* Z0046306	PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	118	118
Δ * Z0076600	TRAINEES	HOURL	500	500
Δ * Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500	500

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

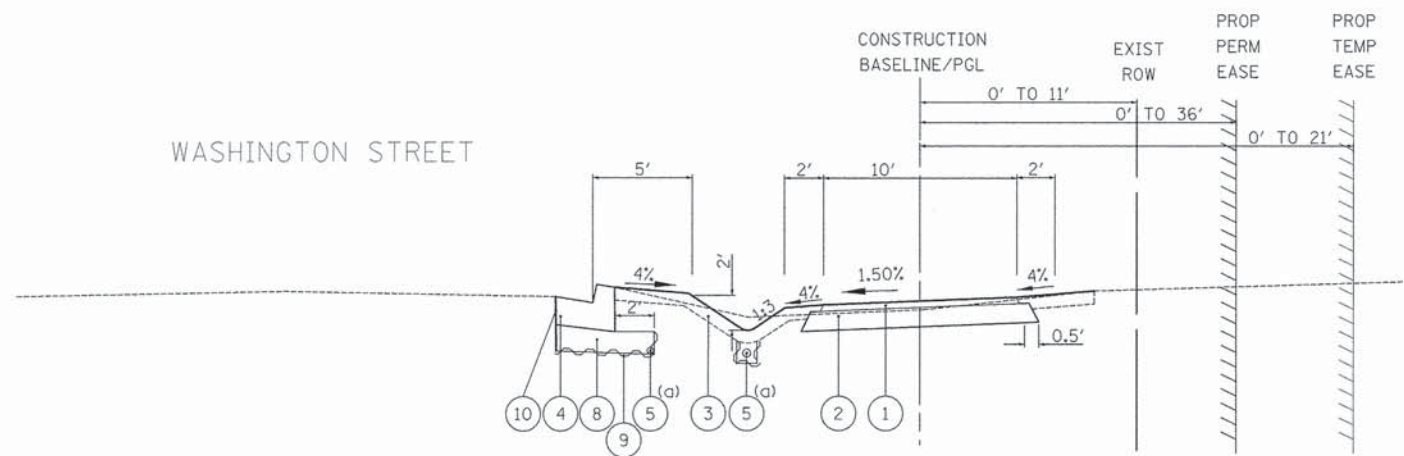
**SUMMARY OF QUANTITIES**

SHEET NO. 2 OF 2 SHEETS

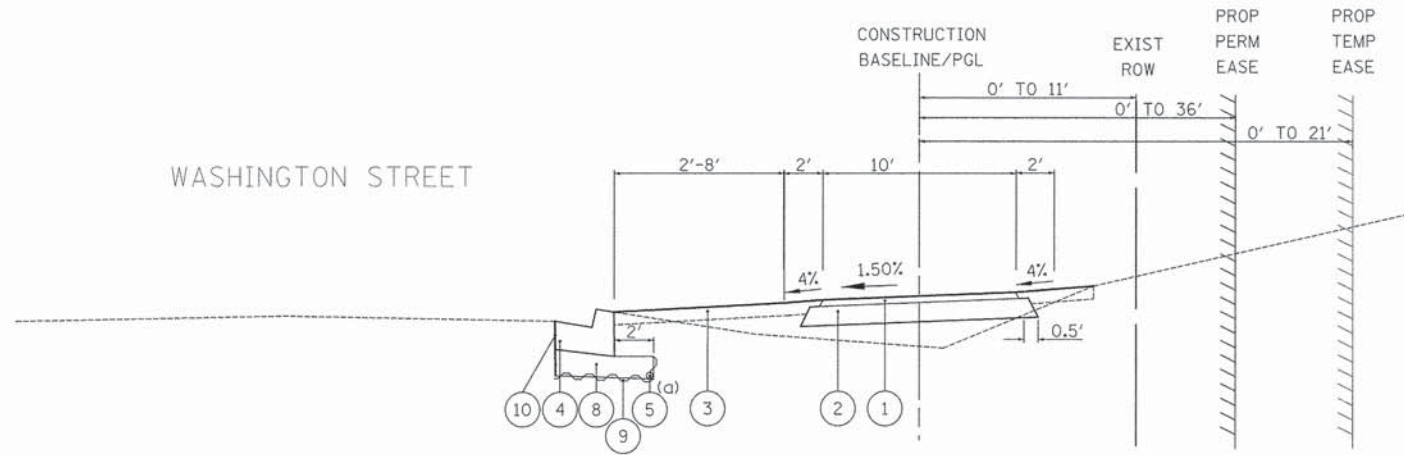
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CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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DATE	
PLAN	
NOTE BOOK	
NO.	

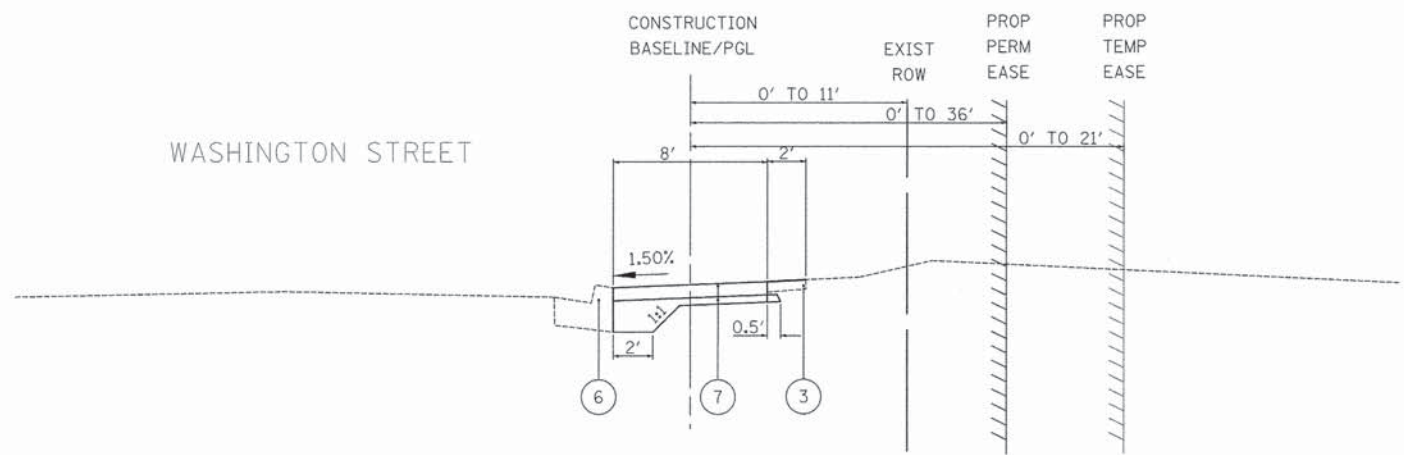
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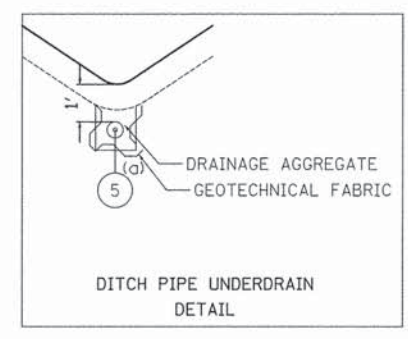
PROPOSED TYPICAL SECTION  
 STA 500+00.0 TO STA 505+50.0, WASHINGTON STREET  
 (a) SEE PLAN AND PROFILE SHEETS FOR UNDERDRAIN LOCATIONS.



PROPOSED TYPICAL SECTION  
 STA 505+50.0 TO STA 531+88.9, WASHINGTON STREET  
 (a) SEE PLAN AND PROFILE SHEETS FOR UNDERDRAIN LOCATIONS.  
 10' TO 8' TRANSITION OCCURS BETWEEN STA 531+20.5 TO STA 531+88.9



PROPOSED TYPICAL SECTION  
 STA 531+88.9 TO STA 532+98.9, WASHINGTON STREET



PROPOSED LEGEND

- ① PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 3"
- ② PROPOSED AGGREGATE BASE COURSE, TYPE B 6"
- ③ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM) AND SEEDING, CLASS 2A
- ④ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SEE PLAN AND PROFILE SHEETS FOR LIMITS)
- ⑤ PROPOSED PIPE UNDERDRAINS, 4" (MODIFIED) (AGGREGATE AND FABRIC FOR THE TRENCH WITHIN THE DITCH SECTION USED FOR UNDERDRAINS WILL NOT BE MEASURED SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF "PIPE UNDERDRAINS, 4" (MODIFIED)")
- ⑥ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑦ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5" WITH AGGREGATE BASE COURSE, TYPE B (4 INCH MIN.)
- ⑧ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑨ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑩ SAW CUT, (TYP) (SEE PLAN AND PROFILE FOR LIMITS)

NOTES:

- REFER TO PLANS FOR WALL DETAILS.
1. SINGLE FACE CONCRETE BARRIER WALL WITH PARAPET RAILING AND CONCRETE BARRIER BASE STA 522+02.5 TO STA 524+63.3
  2. EXISTING CAST-IN-PLACE CANTILEVER T-WALL ON SPREAD FOOTINGS STA 523+02.5 TO STA 524+22.5
  3. PROPOSED CAST-IN-PLACE CANTILEVER T-WALL ON SPREAD FOOTINGS STA 522+02.5 TO STA 523+02.5 AND STA 524+22.5 TO STA 524+63.3

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
<b>BIKE PATH PAVEMENT</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 3" (IN 1 LIFT)	4% @ 50 Gyr.	Qc/Qa
<b>DRIVEWAYS</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2-1/2" (IN 1 LIFT)	4% @ 50 Gyr.	Qc/Qa
QMP Options: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PPP)		

THE UNIT WEIGHT USED 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 HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	6
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 61A40	

PLAN	SURVEYED	DATE
	ALIGNED	
	CHECKED	
	BY	
	NO.	

NO.	DESCRIPTION	SHEET NO.
1	CONTINGENCY AND ESTIMATED ITEMS	7
2	SCHEDULE OF TREE MAINTENANCE	7
3	SCHEDULE OF EARTHWORK	8
4	SCHEDULE OF SEEDING ITEMS	9
5	SCHEDULE OF EROSION CONTROL ITEMS	9
6	SCHEDULE OF AGGREGATE BASE COURSE	9
7	SCHEDULE OF ASPHALT MATERIALS	9
8	SCHEDULE OF CONCRETE ITEMS	9
9	SCHEDULE OF REMOVAL ITEMS	9
10	SCHEDULE OF STORM SEWER PIPES	9
11	SCHEDULE OF STRUCTURES	10
12	SCHEDULE OF GUARD RAIL ITEMS	10
13	SCHEDULE OF TRAFFIC SIGNAL ITEMS	10
14	SCHEDULE OF TREE PLANTINGS	10

1 CONTINGENCY AND ESTIMATED ITEMS			
PAY CODE	DESCRIPTION	UNITS	QUANTITY
20101000	TEMPORARY FENCE	FOOT	200
25200200	SUPPLEMENTAL WATERING	UNIT	10
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	40
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SQ YD	20
67100100	MOBILIZATION	LSUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3
78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	768
X0426200	DEWATERING	LSUM	1
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50
X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	100
X2800302	TEMPORARY DITCH CHECKS (SPECIAL)	FOOT	140
X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	6
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
XX003668	PRECONSTRUCTION VIDEO TAPING	LSUM	1
XX006658	FLOCCULATION LOGS	EACH	5
XX006659	FLOCCULATION POWDER	POUND	15
Z0013798	CONSTRUCTION LAYOUT	LSUM	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52
Z0076600	TRAINEES	HOUR	500
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500

PROFILE	SURVEYED	DATE
	GRADES	
	CHECKED	
	BY	
	NO.	

2 SCHEDULE OF TREE MAINTENANCE							
STREET	STATION		TREE REMOVAL 6 TO 15 UNITS DIAMETER (20100110)	TREE ROOT PRUNING (20101200)	TREE PRUNING (1 TO 10 INCH DIAMETER) (20101300)	TREE PRUNING (OVER 10 INCH DIAMETER) (20101350)	TREE PROTECTION AND PRESERVATION (XX006698)
	FROM	TO	UNITS	EACH	EACH	EACH	EACH
Washington Street	500+00	505+00	0	5	3	2	3
	505+00	510+50	0	0	0	0	0
	510+50	516+00	0	0	0	0	0
	516+00	521+50	44	0	0	0	0
	521+50	527+00	0	1	1	0	1
	527+00	532+98.90	6	6	6	0	6
<b>PROJECT TOTAL</b>			<b>50</b>	<b>12</b>	<b>10</b>	<b>2</b>	<b>10</b>



450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 1 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	7
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				





4						
SCHEDULE OF SEEDING ITEMS						
STREET	STATION		SEEDING, CLASS 2A (25000210)	SEEDING, CLASS (25000310)	NITROGEN FERTILIZER NUTRIENT (25000400)	POTASSIUM FERTILIZER NUTRIENT (25000600)
	FROM	TO	ACRES	ACRE	POUND	POUND
Washington Street	500+00	505+00	0.19	0.00	17	17
	505+00	510+50	0.18	0.25	17	17
	510+50	516+00	0.14	0.00	13	13
	516+00	521+50	0.14	0.00	12	12
	521+50	527+00	0.32	0.00	29	29
	527+00	532+98.90	0.59	0.00	53	53
PROJECT TOTAL			1.75	0.25	158	158

5									
SCHEDULE OF EROSION CONTROL ITEMS									
STREET	STATION		AREA		EROSION CONTROL BLANKET (25100630)	TEMPORARY EROSION CONTROL SEEDING (28000250)	TEMPORARY DITCH CHECKS (28000305)	PERIMETER EROSION BARRIER (28000400)	INLET FILTERS (28000510)
	FROM	TO	SQ FT	SQ YD	SQ YD	POUND	FOOT	FOOT	EACH
Washington Street	500+00	505+00	8310	924	924	21	84	345	1
	505+00	510+50	8011	891	891	21	28	632	6
	510+50	516+00	6092	677	677	16	0	560	2
	516+00	521+50	5908	657	657	16	0	537	2
	521+50	527+00	13801	1534	1534	34	0	563	3
	527+00	532+99	25774	2864	2864	67	28	589	5
PROJECT TOTAL					7547	175	140	3226	19

6					
SCHEDULE OF AGGREGATE BASE COURSE					
STREET	STATION		AGGREGATE BASE COURSE, TYP B 4" (35101600)	AGGREGATE BASE COURSE, TYP B 6" (35101800)	AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
	FROM	TO	SQ YD	SQ YD	SQ YD
Washington street	500+00	504+00	0	493	493
	504+00	509+00	0	556	556
	509+00	514+00	0	556	556
	514+00	519+00	0	556	556
	519+00	524+00	0	751	751
	524+00	529+00	0	585	585
529+00	532+99	68	338	338	
PROJECT TOTAL			68	3,833	3,833

7				
SCHEDULE OF ASPHALT MATERIALS				
STREET	STATION		BITUMINOUS MATERIALS (PRIME COAT) (X4060110)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (40603335)
	FROM	TO	POUND	TON
Washington street	500+00	504+00	1110	83
	504+00	509+00	1250	94
	509+00	514+00	1250	94
	514+00	519+00	1250	94
	519+00	524+00	1689	127
	524+00	529+00	1316	99
	529+00	532+99	760	57
	PROJECT TOTAL			8625

8						
SCHEDULE OF CONCRETE ITEMS						
STREET	STATION		PROTECTIVE COAT (42001300)	PORTLAND CEMENT CONCRETE SIDEWALK 5" (42400200)	DETECTABLE WARNINGS (42400800)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60605000)
	FROM	TO	SQ YD	SQ FT	SQ FT	FOOT
Washington street	500+00	504+00	0	0	0	0
	504+00	509+00	133	0	0	386
	509+00	514+00	0	0	0	0
	514+00	519+00	0	0	0	0
	519+00	524+00	214	0	0	137
	524+00	529+00	69	0	0	0
	529+00	532+99	68	610	24	0
	PROJECT TOTAL			484	610	24

9					
SCHEDULE OF REMOVAL ITEMS					
STREET	STATION		PAVEMENT REMOVAL (44000100)	COMBINATION CURB AND GUTTER REMOVAL (44000500)	GUARD RAIL REMOVAL (63200310)
	FROM	TO	SQ YD	FOOT	FOOT
Washington street	500+00	504+00	62	0	0
	504+00	509+00	0	12	0
	509+00	514+00	0	0	0
	514+00	519+00	0	0	0
	519+00	524+00	126	335	287
	524+00	529+00	0	62	1
529+00	532+99	38	0	0	
PROJECT TOTAL			226	409	288

10											
SCHEDULE OF STORM SEWER PIPES											
STREET	STATION		STORM SEWERS, CLASS A, TYPE 1 12" (550A0050)	STORM SEWERS, CLASS A, TYPE 1 24" (550A0120)	TRENCH BACKFILL (20800150)	CONCRETE END SECTION, STANDARD 542001, 24" 1:3 (54261324)	TRAVERSABLE PIPE GRATE (54260311)	STORM SEWER REMOVAL 12" (55100500)	STORM SEWER REMOVAL 18" (55100900)	STORM SEWER REMOVAL 24" (55101200)	PIPE UNDERDRAIN S 4" (MODIFIED) (X6013600)
	FROM	TO	FOOT	FOOT	CU YD	EACH	FOOT	FOOT	FOOT	FOOT	FOOT
Washington Street	500+00	504+00	0	0	0	0	0	0	0	0	340
	504+00	509+00	155	36	7	0	0	0	0	14	577
	509+00	514+00	0	20	2	0	20	0	12	0	0
	514+00	519+00	0	0	0	2	0	10	0	0	0
	519+00	524+00	0	0	0	0	0	13	0	0	0
	524+00	529+00	0	0	0	0	0	0	0	0	345
	529+00	532+99	0	0	0	0	0	0	0	0	0
	Total:			155	56	9	2	20	23	12	14



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DESIGNED - JRR  
DRAWN - JRR  
CHECKED - RTM  
DATE - 03/24/2014

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 3 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	9
CONTRACT NO. 61A40				

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

PLAN SURVEYED BY DATE  
 NOTE BOOK NO. OF WAY CHECKED  
 NO. ROAD FILE NAME

PROFILE SURVEYED BY DATE  
 NOTE BOOK NO. GRADES CHECKED  
 NO. STRUCTURE NOTES CHECKED

11		SCHEDULE OF STRUCTURES								
STREET	STATION		CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE (60205040)	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLASED LID (60218400)	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8, GRATE (60221700)	INLET TYPE-A TYPE 24 FRAME & GRATE (60237470)	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 24 FRAME & GRATE (60264140)	MANHOLES TO BE ADJUSTED (60255500)	VALVE VAULTS TO BE ADJUSTED (60265700)	REMOVING CATCH BASINS (60500050)
	FROM	TO	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
Washington Street	500+00	504+00	0	0	0	0	0	0	0	0
	504+00	509+00	1	1	1	1	0	0	0	0
	509+00	514+00	0	0	0	0	0	3	0	0
	514+00	519+00	0	0	0	0	0	1	0	0
	519+00	524+00	0	0	0	0	1	0	0	1
	524+00	529+00	0	0	0	0	0	1	1	0
	529+00	532+99	0	0	0	0	0	0	0	0
<b>PROJECT TOTAL</b>			<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>1</b>

12		SCHEDULE OF GUARD RAIL ITEMS				
STREET	STATION		TRAFFIC BARRIER TERMINAL, TYPE 6 (63100085)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (63100167)	GUARDRAIL MARKERS, TYPE B (78200420)	TERMINAL MARKER - DIRECT APPLIED (78201000)
	FROM	TO	EACH	EACH	EACH	EACH
Washington street	500+00	504+00	0	0	0	0
	504+00	509+00	0	0	0	0
	509+00	514+00	0	0	0	0
	514+00	519+00	0	0	0	0
	519+00	524+00	1	1	4	1
	524+00	529+00	0	0	0	0
	529+00	532+99	0	0	0	0
<b>PROJECT TOTAL</b>			<b>1</b>	<b>1</b>	<b>4</b>	<b>1</b>

13		SCHEDULE OF TRAFFIC SIGNALS											
STREET	STATION		UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" (81028210)	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (85000200)	CONCRETE FOUNDATION, TYPE A (87800100)	DRILL EXISTING HANDHOLE (87900200)	RELOCATE EXISTING SIGNAL HEAD (89500100)	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD (89500200)	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON (89500400)	RELOCATE EXISTING TRAFFIC SIGNAL POST (89501150)	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT (89502350)	REBUILD EXISTING HANDHOLE (89502376)	REMOVE EXISTING CONCRETE FOUNDATION (89502385)
	FROM	TO	FOOT	EACH	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	EACH	EACH
Washington street	500+00	504+00	0	0	0	0	0	0	0	0	0	0	0
	504+00	509+00	0	0	1	1	0	0	0	0	0	1	1
	509+00	514+00	0	0	1	1	0	0	0	0	0	1	1
	514+00	519+00	0	0	1	1	0	0	0	0	0	1	1
	519+00	524+00	0	0	0	0	1	0	0	0	0	0	0
	524+00	529+00	0	0	1	1	0	0	0	0	0	1	1
	529+00	532+99	16	1	1	1	0	1	2	1	362	1	1
<b>PROJECT TOTAL</b>			<b>16</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>362</b>	<b>5</b>	<b>5</b>

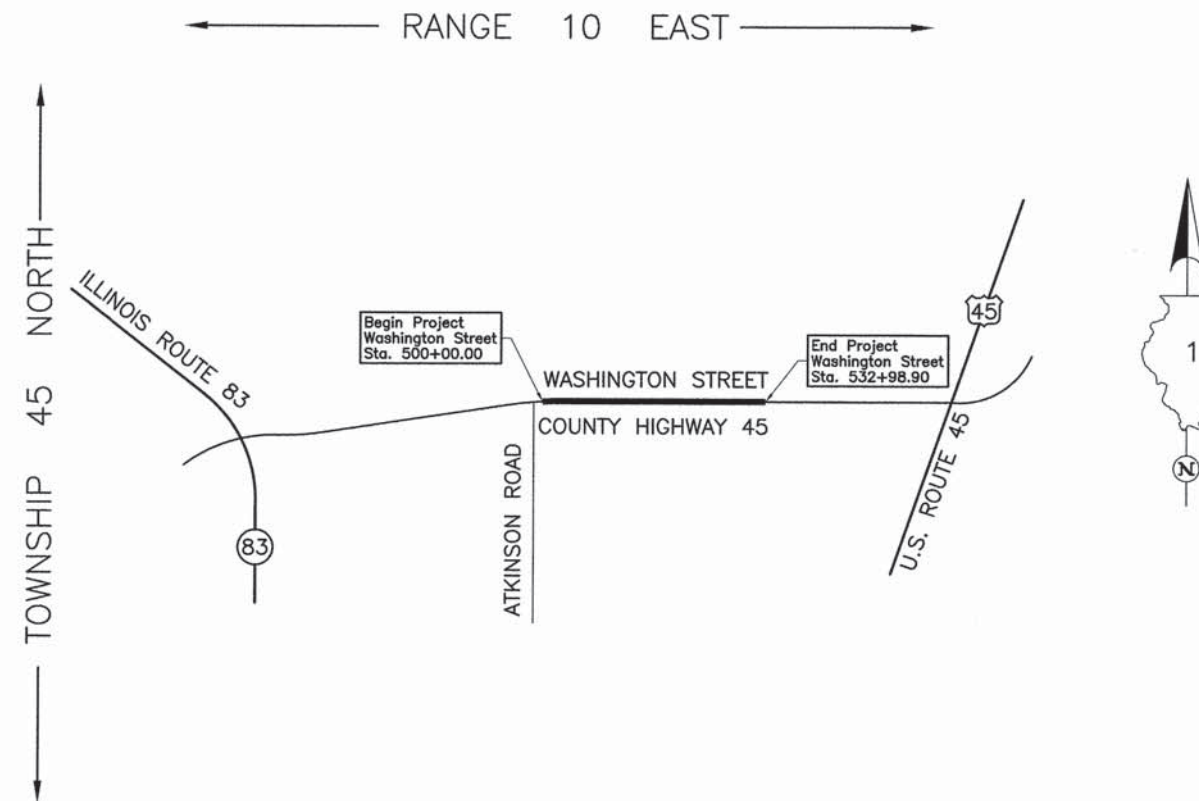
14		SCHEDULE OF TREE PLANTINGS			
STREET	STATION		GYMNOCLAD US DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED (A2005016)	TREE, QUERCUS MACROCARP A (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED (A2006716)	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED (A2007116)
	FROM	TO	EACH	EACH	EACH
Washington Street	500+00	505+00	0	0	0
	505+00	510+50	0	0	0
	510+50	516+00	0	0	0
	516+00	521+50	0	5	0
	521+50	527+00	1	0	0
	527+00	532+99	3	0	4
<b>PROJECT TOTAL</b>			<b>4</b>	<b>5</b>	<b>4</b>

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

# PLAT OF HIGHWAYS

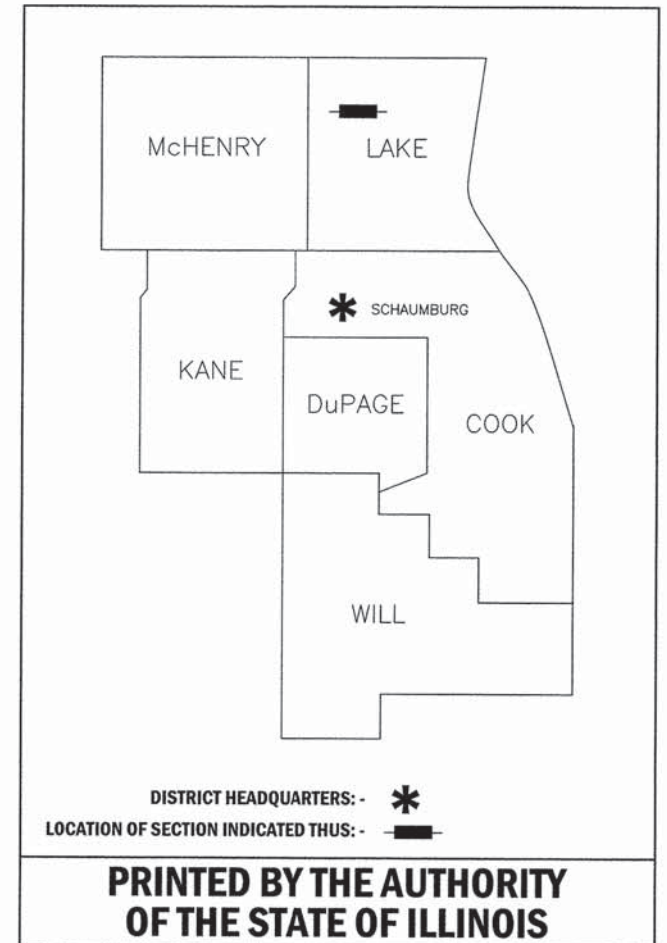
**ROUTE: WASHINGTON STREET  
SECTION: 09-00135-11-BT  
COUNTY: LAKE  
LIMITS: ATKINSON ROAD TO LANCER LANE  
JOB NO.: R-55-001-97**

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0001T.E.	Village of Grayslake	2	
0002P.E.-A 0002P.E.-B 0002T.E.-A 0002T.E.-B	Grayslake Park District	2 & 3	
0003T.E.	Community College District No. 532	4	
0004P.E.	Regional Board of School Trustees of Lake County, Illinois also known as The County Board of School Trustees of Lake County, Illinois	5	
0005P.E. 0005T.E.	The Board of Junior College, District 532, County of Lake, State of Illinois	6	



### LOCATION MAP

PROJECT LENGTH = 3,298.90 LIN. FT. = 0.625 MILE, WASHINGTON STREET



JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

Existing & Proposed Pavement Washington Street Curve #1

P.I. = Sta. 56+15.19  
 $\Delta$  = 1'39"34"  
 R = 3819.83'  
 T = 55.32'  
 L = 110.63'  
 E = 0.40'  
 P.C. = Sta. 55+59.87  
 P.T. = Sta. 56+70.50

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
0001	3113247	February 6, 1992
0001	3232390	October 27, 1992
0002	3232390	October 27, 1992
----	957777	July 16, 1957
----	3187243	July 17, 1992
----	4414780	September 3, 1999
----	5247047	May 27, 2003

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS  
 I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.  
 DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_ A.D.

COUNTY ENGINEER

**LEGEND**

SECTION CORNER 16 15 QUARTER SECTION CORNER

SECTION LINE  
 QUARTER SECTION LINE  
 QUARTER, QUARTER SECTION LINE  
 PLATTED LOT LINE  
 PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE  
 EXISTING CENTER LINE  
 PROPOSED CENTER LINE  
 EXISTING RIGHT OF WAY LINE  
 PROPOSED RIGHT OF WAY LINE  
 EXISTING EASEMENT  
 PROPOSED EASEMENT  
 EXISTING ACCESS CONTROL LINE  
 PROPOSED ACCESS CONTROL LINE  
 MEASURED DIMENSION  
 COMPUTED DIMENSION  
 RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND @ "MAG" NAIL SET  
 CUT CROSS FOUND OR SET • 5/8" REBAR SET

T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
 BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.  
 STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)  
 RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.  
 DATED AT LAKE VILLA, ILLINOIS THIS 10th DAY OF March 2014 A.D.

CHRISTIAN H. JORGENSEN  
 2797 PROFESSIONAL LAND SURVEYOR  
 STATE OF ILLINOIS  
 LAKE VILLA, ILLINOIS

Project Average Combined Scale Factor 0.999951704

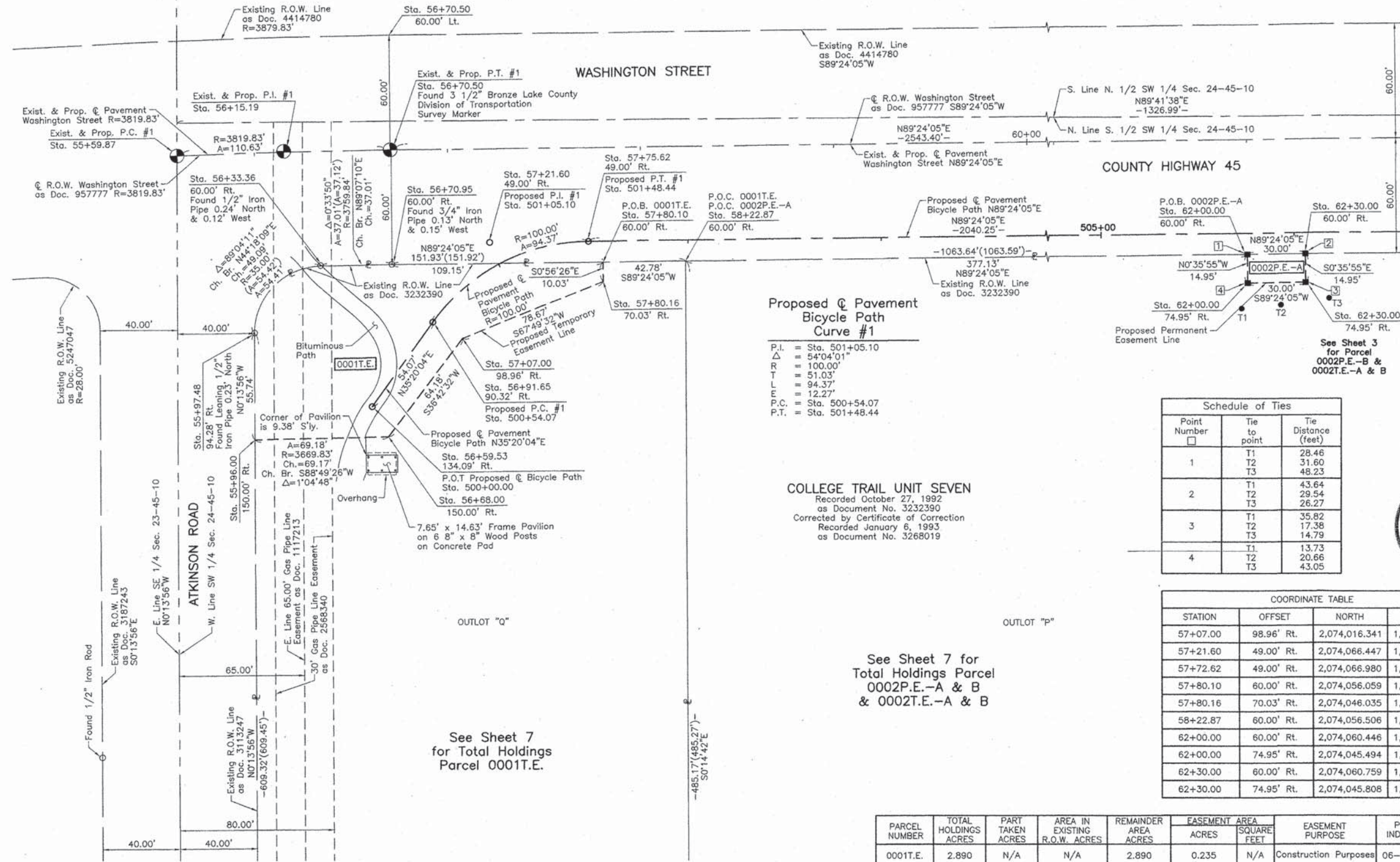
COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
55+96.00	150.00' Rt.	2,073,963.473	1,067,869.755
55+97.48	94.28' Rt.	2,074,019.215	1,067,869.529
56+33.36	60.00' Rt.	2,074,054.350	1,067,903.819
56+59.53	134.09' Rt.	2,073,980.707	1,067,930.567
56+68.00	150.00' Rt.	2,073,964.893	1,067,938.914
56+70.50	60.00' Lt.	2,074,174.907	1,067,939.118
56+70.95	60.00' Rt.	2,074,054.918	1,067,940.820
56+91.65	90.32' Rt.	2,074,024.820	1,067,961.841

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

**PLAT OF HIGHWAYS STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION WASHINGTON STREET**  
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE SECTION: 09-00135-11-BT JOB NO.: R-55-001-97 STATION 55+59.87 TO STATION 63+00 SCALE: 1"=30' SHEET 2 OF 9

**BUREAU OF LAND ACQUISITION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196**



Proposed Pavement Bicycle Path Curve #1

P.I. = Sta. 501+05.10  
 $\Delta$  = 54'04"01"  
 R = 100.00'  
 T = 51.03'  
 L = 94.37'  
 E = 12.27'  
 P.C. = Sta. 500+54.07  
 P.T. = Sta. 501+48.44

COLLEGE TRAIL UNIT SEVEN  
 Recorded October 27, 1992 as Document No. 3232390  
 Corrected by Certificate of Correction Recorded January 6, 1993 as Document No. 3268019

Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	28.46
	T2	31.60
	T3	48.23
2	T1	43.64
	T2	29.54
	T3	26.27
3	T1	35.82
	T2	17.38
	T3	14.79
4	T1	13.73
	T2	20.66
	T3	43.05

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
57+07.00	98.96' Rt.	2,074,016.341	1,067,977.275
57+21.60	49.00' Rt.	2,074,066.447	1,067,991.352
57+72.62	49.00' Rt.	2,074,066.980	1,068,042.376
57+80.10	60.00' Rt.	2,074,056.059	1,068,049.965
57+80.16	70.03' Rt.	2,074,046.035	1,068,050.129
58+22.87	60.00' Rt.	2,074,056.506	1,068,092.739
62+00.00	60.00' Rt.	2,074,060.446	1,068,469.843
62+00.00	74.95' Rt.	2,074,045.494	1,068,469.999
62+30.00	60.00' Rt.	2,074,060.759	1,068,499.643
62+30.00	74.95' Rt.	2,074,045.808	1,068,499.999

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0001T.E.	2.890	N/A	N/A	2.890	0.235	N/A	Construction Purposes	06-24-301-001
0002P.E.-A 0002P.E.-B 0002T.E.-A 0002T.E.-B	17.345	N/A	N/A	17.345	P.E.-A=0.010 P.E.-B=0.007 T.E.-A=0.031 T.E.-B=0.022	449 300 N/A N/A	Drainage Drainage Construction Purposes Construction Purposes	06-24-301-002

REVISION DATE

REVISION

MADE BY

Point Number	Tie to point	Tie Distance (feet)
1	T1	27.45
	T2	27.92
	T3	36.05
2	T1	38.48
	T2	28.40
	T3	25.72
3	T1	30.33
	T2	15.57
	T3	11.66
4	T1	13.88
	T2	14.66
	T3	27.81

Parcel	Document No.	Date Recorded
0002	3232390	October 27, 1992
-----	178314	June 20, 1918
-----	957777	July 16, 1957
-----	4414780	September 3, 1989
-----	5162392	March 21, 2003
-----	5196475	April 22, 2003

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS  
 I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.  
 DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_ A.D.  
 \_\_\_\_\_  
 COUNTY ENGINEER

**LEGEND**

SECTION CORNER: 9/10, 16/15  
 QUARTER SECTION CORNER: 16, 15

SECTION LINE  
 QUARTER SECTION LINE  
 QUARTER, QUARTER SECTION LINE  
 PLATTED LOT LINE  
 PROPERTY (DEED) LINE

APL  
 APPARENT PROPERTY LINE  
 EXISTING CENTER LINE  
 PROPOSED CENTER LINE  
 EXISTING RIGHT OF WAY LINE  
 PROPOSED RIGHT OF WAY LINE  
 EXISTING EASEMENT  
 PROPOSED EASEMENT  
 EXISTING ACCESS CONTROL LINE  
 PROPOSED ACCESS CONTROL LINE  
 MEASURED DIMENSION  
 COMPUTED DIMENSION  
 RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND      ⊕ "MAG" NAIL SET  
 + CUT CROSS FOUND OR SET      ● 5/8" REBAR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
 ● T2  
 ● T3

● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
 ● BT2  
 ● BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

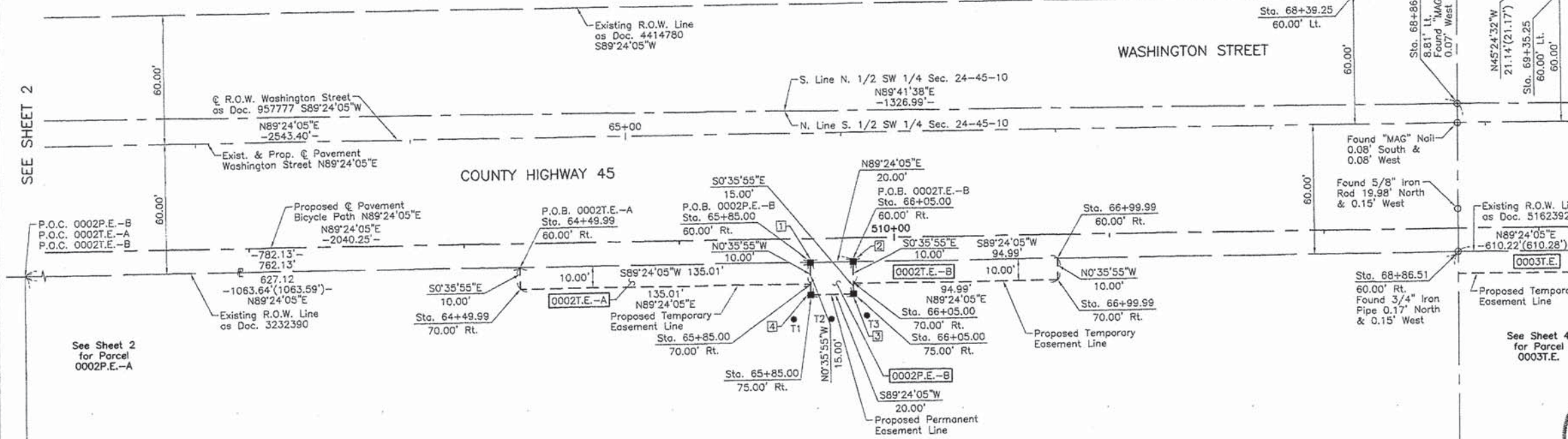
⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.  
 DATED AT LAKE VILLA, ILLINOIS THIS 10<sup>th</sup> DAY OF March 2014 A.D.

CHRISTIAN H. JORGENSEN  
 2787 PROFESSIONAL LAND SURVEYOR  
 STATE OF ILLINOIS  
 LAKE VILLA, ILLINOIS



SEE SHEET 2

SEE SHEET 4

See Sheet 2 for Parcel 0002P.E.-A

See Sheet 4 for Parcel 0003T.E.

COLLEGE TRAIL UNIT SEVEN  
 Recorded October 27, 1992  
 as Document No. 3232390  
 Corrected by Certificate of Correction  
 Recorded January 5, 1993  
 as Document No. 3268019

See Sheet 7 for  
 Total Holdings Parcel  
 0002P.E.-A & B  
 & 0002T.E.-A & B

OUTLOT "P"

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0002P.E.-A 0002P.E.-B 0002T.E.-A 0002T.E.-B	17.345	N/A	N/A	17.345	P.E.-A=0.010 P.E.-B=0.007 T.E.-A=0.031 T.E.-B=0.022	449 300 N/A N/A	Drainage Drainage Construction Purposes Construction Purposes	06-24-301-002

STATION	OFFSET	NORTH	EAST
66+99.99	60.00' Rt.	2,074,065.669	1,068,969.811
66+99.99	70.00' Rt.	2,074,055.670	1,068,969.915
68+39.25	60.00' Lt.	2,074,187.118	1,069,107.806
68+54.35	75.00' Lt.	2,074,202.274	1,069,122.748
68+86.51	60.00' Rt.	2,074,067.618	1,069,156.320
68+86.97	8.81' Lt.	2,074,136.430	1,069,156.057
69+20.35	75.00' Lt.	2,074,202.964	1,069,188.746
69+35.25	60.00' Lt.	2,074,188.121	1,069,203.802

STATION	OFFSET	NORTH	EAST
64+49.99	60.00' Rt.	2,074,063.058	1,068,719.824
64+49.99	70.00' Rt.	2,074,053.058	1,068,719.929
65+85.00	60.00' Rt.	2,074,064.468	1,068,854.823
65+85.00	70.00' Rt.	2,074,054.468	1,068,854.928
65+85.00	75.00' Rt.	2,074,049.474	1,068,854.980
66+05.00	60.00' Rt.	2,074,064.677	1,068,874.823
66+05.00	70.00' Rt.	2,074,054.678	1,068,874.928
66+05.00	75.00' Rt.	2,074,049.683	1,068,874.980

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 WASHINGTON STREET  
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE  
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97  
 STATION 62+00 TO STATION 70+00  
 SCALE: 1"=30' SHEET 3 OF 9

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

REVISION DATE

REVISION

MADE BY

PART OF THE SW 1/4 OF SEC. 24, TWP. 45 N., R. 10 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
0003	5162392	March 21, 2003
0003	5162393	March 21, 2003
----	178314	June 20, 1918
----	957777	July 16, 1957
----	969825	October 24, 1957
----	4414780	September 3, 1999
----	5196475	April 22, 2003
----	5379088	September 24, 2003

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS  
 I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.  
 DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_ A.D.

COUNTY ENGINEER

**LEGEND**

SECTION CORNER: 9/10, 16/15  
 QUARTER SECTION CORNER: 16, 15

SECTION LINE  
 QUARTER SECTION LINE  
 QUARTER, QUARTER SECTION LINE  
 PLATTED LOT LINE  
 PROPERTY (DEED) LINE

APL  
 APPARENT PROPERTY LINE  
 EXISTING CENTER LINE  
 PROPOSED CENTER LINE  
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 PROPOSED RIGHT OF WAY LINE  
 EXISTING EASEMENT  
 PROPOSED EASEMENT  
 EXISTING ACCESS CONTROL LINE  
 PROPOSED ACCESS CONTROL LINE  
 MEASURED DIMENSION  
 COMPUTED DIMENSION  
 RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND: "MAG" NAIL SET  
 CUT CROSS FOUND OR SET: 5/8" REBAR SET

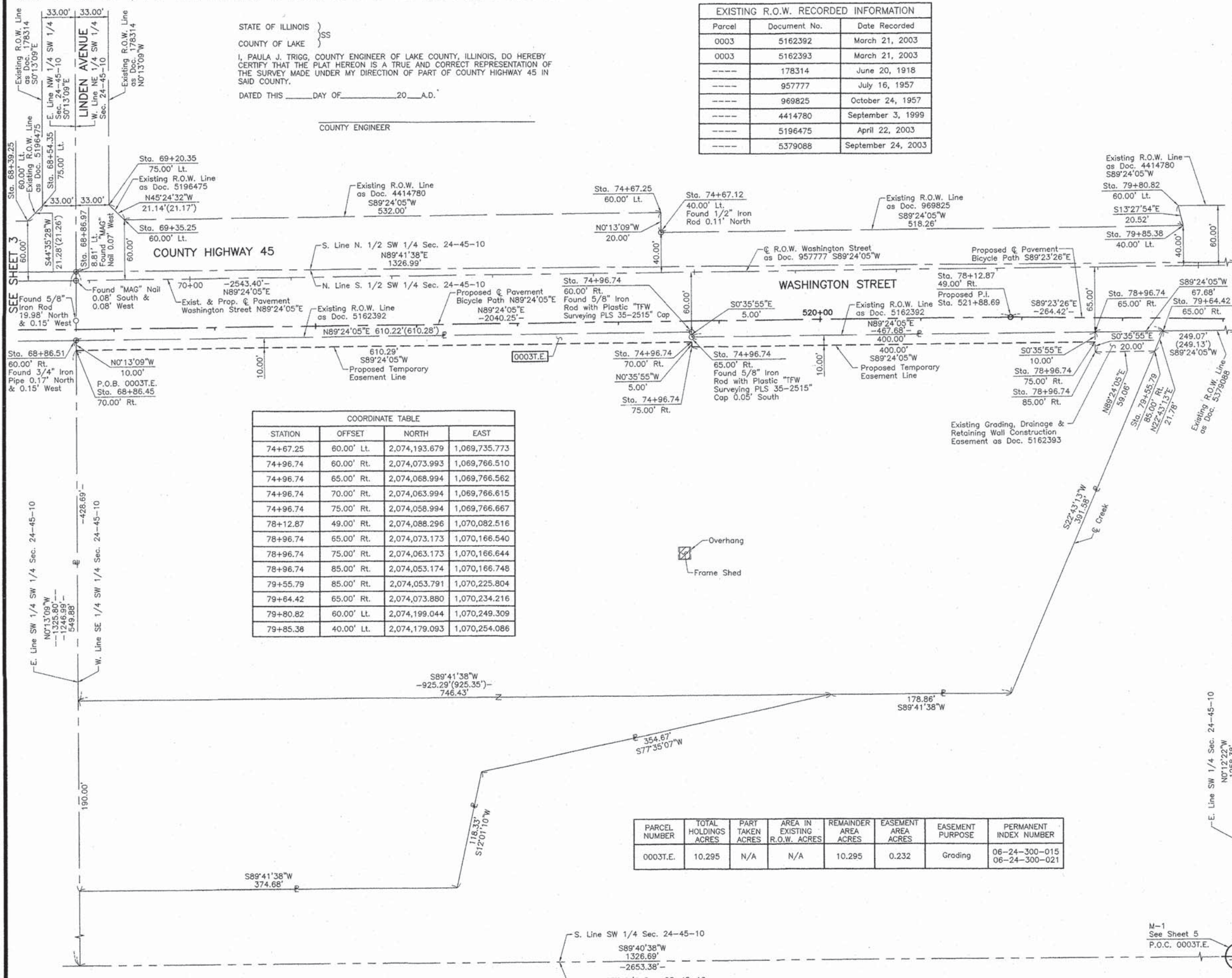
T1, T2, T3: THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8" INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

BT1, BT2, BT3: THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8" INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

M: STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8" INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET.



COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
74+67.25	60.00' Lt.	2,074,193.679	1,069,735.773
74+96.74	60.00' Rt.	2,074,073.993	1,069,766.510
74+96.74	65.00' Rt.	2,074,068.994	1,069,766.562
74+96.74	70.00' Rt.	2,074,063.994	1,069,766.615
74+96.74	75.00' Rt.	2,074,058.994	1,069,766.667
78+12.87	49.00' Rt.	2,074,088.296	1,070,082.516
78+96.74	65.00' Rt.	2,074,073.173	1,070,166.540
78+96.74	75.00' Rt.	2,074,063.173	1,070,166.644
78+96.74	85.00' Rt.	2,074,053.174	1,070,166.748
79+55.79	85.00' Rt.	2,074,053.791	1,070,225.804
79+64.42	65.00' Rt.	2,074,073.880	1,070,234.216
79+80.82	60.00' Lt.	2,074,199.044	1,070,249.309
79+85.38	40.00' Lt.	2,074,179.093	1,070,254.086

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0003T.E.	10.295	N/A	N/A	10.295	0.232	Grading	06-24-300-015 06-24-300-021



CHRISTIAN H. JORGENSEN, PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
 Note: Surface Coordinates are Shown  
 Project Average Combined Scale Factor 0.999951704

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
68+39.25	60.00' Lt.	2,074,187.118	1,069,107.806
68+54.35	75.00' Lt.	2,074,202.274	1,069,122.748
68+86.45	70.00' Rt.	2,074,057.618	1,069,156.358
68+86.51	60.00' Rt.	2,074,067.618	1,069,156.320
68+86.97	8.81' Lt.	2,074,136.430	1,069,156.057
69+20.35	75.00' Lt.	2,074,202.964	1,069,188.746
69+35.25	60.00' Lt.	2,074,188.121	1,069,203.802
74+67.12	40.00' Lt.	2,074,173.678	1,069,735.849

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

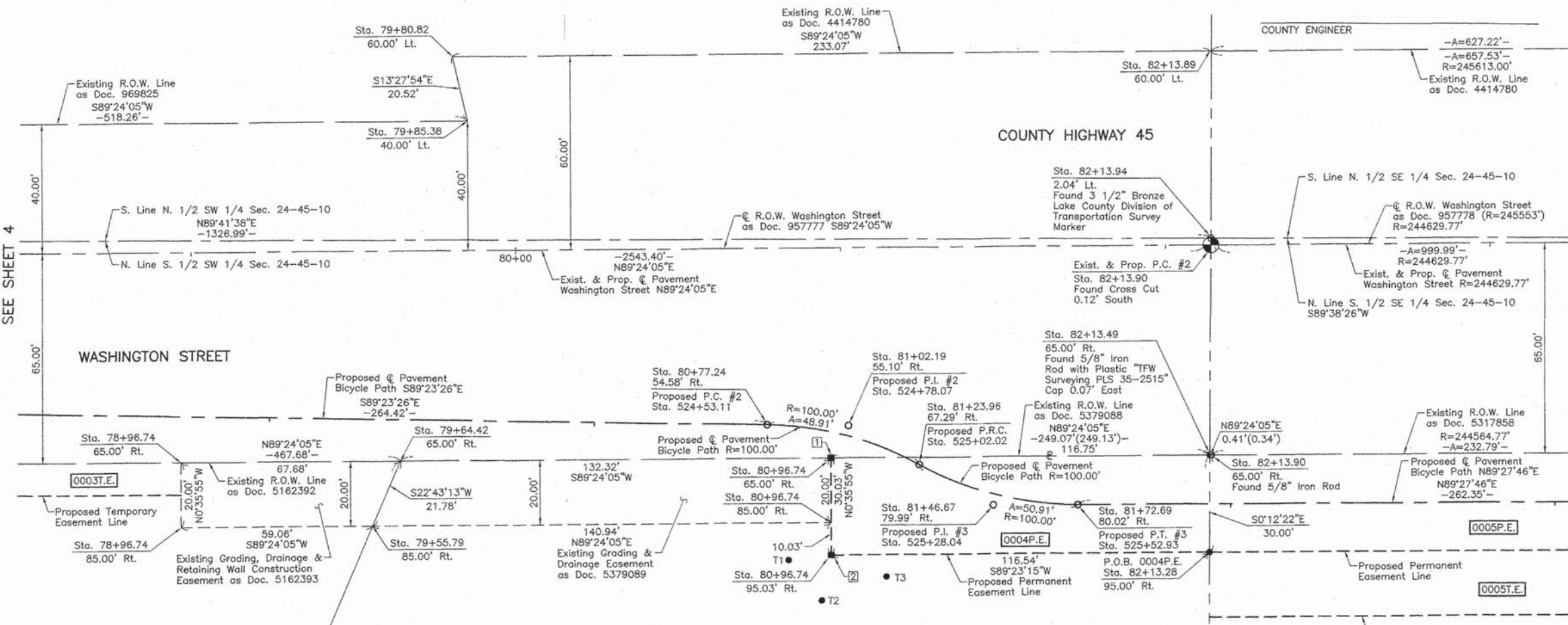
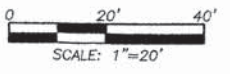
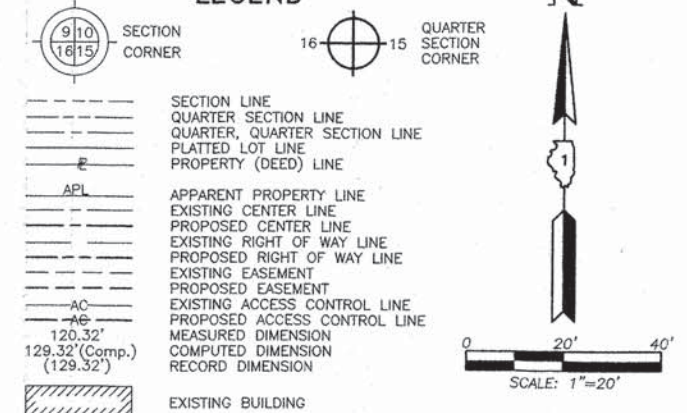
**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 WASHINGTON STREET  
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE  
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97  
 STATION 68+00 TO STATION 80+00  
 SCALE: 1"=50' SHEET 4 OF 9

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAMBURG, ILLINOIS 60196

REVISION DATE REVISION MADE BY

STATE OF ILLINOIS }  
 COUNTY OF LAKE }  
 I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.  
 DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_ A.D.

**LEGEND**



Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND @ "MAG" NAIL SET  
 CUT CROSS FOUND OR SET • 5/8" REBAR SET

T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	T1	34.08
	T2	44.07
	T3	40.60
2	T1	13.12
	T2	14.25
	T3	18.38

Proposed Pavement Bicycle Path Curve #2

P.I.	= Sta. 524+78.07
Δ	= 28°01'25"
R	= 100.00'
T	= 24.96'
L	= 48.91'
E	= 3.07'
P.C.	= Sta. 524+53.11
P.R.C.	= Sta. 525+02.02

Proposed Pavement Bicycle Path Curve #3

P.I.	= Sta. 525+28.04
Δ	= 29°10'14"
R	= 100.00'
T	= 26.02'
L	= 50.91'
E	= 3.33'
P.R.C.	= Sta. 525+02.02
P.T.	= Sta. 525+52.93

Existing & Proposed Pavement Washington Street Curve #2

P.I.	= Sta. 87+13.90
Δ	= 0°14'03"
R	= 244629.77'
T	= 500.00'
L	= 999.99'
E	= 0.51'
P.C.	= Sta. 82+13.90
P.T.	= Sta. 92+13.89

EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
0004	5379088	September 24, 2003
0004	5379089	September 24, 2003
----	957777	July 16, 1957
----	957778	July 16, 1957
----	969825	October 24, 1957
----	4414780	September 3, 1999
----	5162392	March 21, 2003
----	5162393	March 21, 2003
----	5317858	July 28, 2003

See Sheet 8 for Total Holdings Parcel 0004P.E.

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
80+96.74	85.00' Rt.	2,074,055.263	1,070,366.738
80+96.74	95.03' Rt.	2,074,045.236	1,070,366.842
81+02.19	55.10' Rt.	2,074,085.217	1,070,371.876
81+23.96	67.29' Rt.	2,074,073.259	1,070,393.779
81+46.67	79.99' Rt.	2,074,060.790	1,070,416.617
81+72.69	80.02' Rt.	2,074,061.034	1,070,442.637
82+13.28	95.00' Rt.	2,074,046.481	1,070,483.380
82+13.49	65.00' Rt.	2,074,076.482	1,070,483.272
82+13.89	60.00' Lt.	2,074,201.479	1,070,482.366
82+13.90	65.00' Rt.	2,074,076.486	1,070,483.687
82+13.94	2.04' Lt.	2,074,143.523	1,070,483.031

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0004P.E.	28.008	N/A	N/A	28.008	0.080	Bikeway Purposes	06-24-300-022

REVISION DATE

REVISION

MADE BY

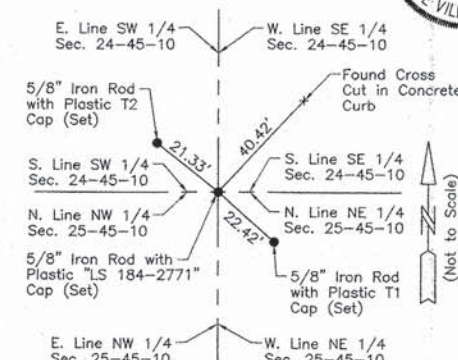
See Sheet 6 for Parcel 0005P.E. & 0005T.E.



*Christian H. Jorgensen* PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
 Note: Surface Coordinates are Shown  
 Project Average Combined Scale Factor 0.999951704

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
78+96.74	65.00' Rt.	2,074,073.173	1,070,166.540
78+96.74	85.00' Rt.	2,074,053.174	1,070,166.748
79+55.79	85.00' Rt.	2,074,053.791	1,070,225.804
79+64.42	65.00' Rt.	2,074,073.880	1,070,234.216
79+80.82	60.00' Lt.	2,074,199.044	1,070,249.309
79+85.38	40.00' Lt.	2,074,179.093	1,070,254.086
80+77.24	54.58' Rt.	2,074,085.483	1,070,346.923
80+96.74	65.00' Rt.	2,074,075.262	1,070,366.529



M-1 "Monument Record"

South 1/4 Corner of Section 24-45-10  
 N.2,072,818.112-E.1,070,487.799  
 Recorded March 20, 2014  
 Document No. 7085466

**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
 WASHINGTON STREET  
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE  
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97  
 STATION 78+00 TO STATION 83+00  
 SCALE: 1"=20' SHEET 5 OF 9

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196





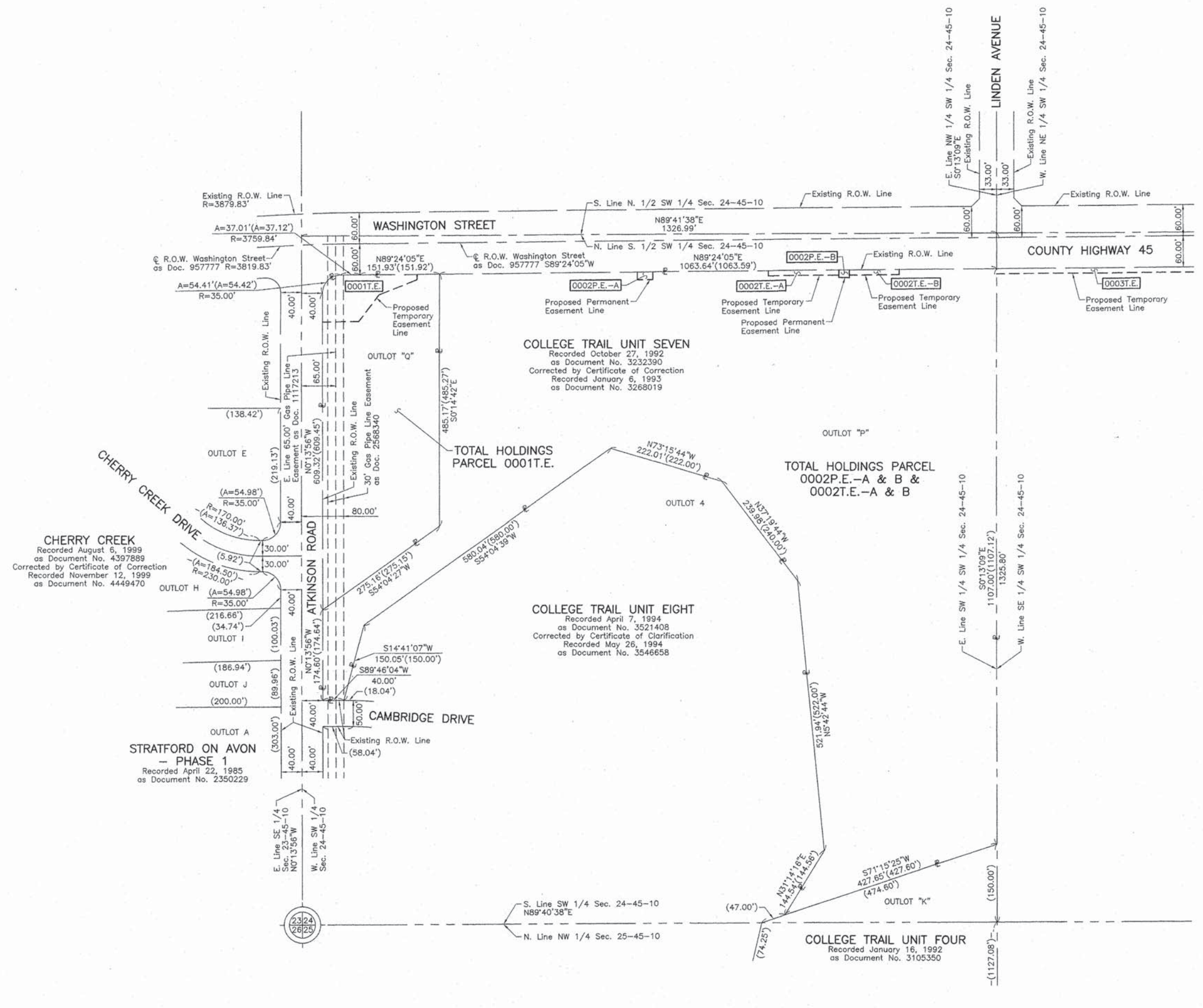
**LEGEND**

	SECTION CORNER		QUARTER SECTION CORNER
	SECTION LINE		QUARTER SECTION LINE
	PLATTED LOT LINE		PROPERTY (DEED) LINE
	APPARENT PROPERTY LINE		EXISTING CENTER LINE
	PROPOSED CENTER LINE		EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE		EXISTING EASEMENT
	PROPOSED EASEMENT		EXISTING ACCESS CONTROL LINE
	PROPOSED ACCESS CONTROL LINE		MEASURED DIMENSION
	COMPUTED DIMENSION		RECORD DIMENSION
	EXISTING BUILDING		

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

0 100' 200'

SCALE: 1"=100'



- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 22<sup>nd</sup> DAY OF March 2014 A.D.



*Christian H. Jorgensen* PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_ A.D.

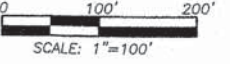
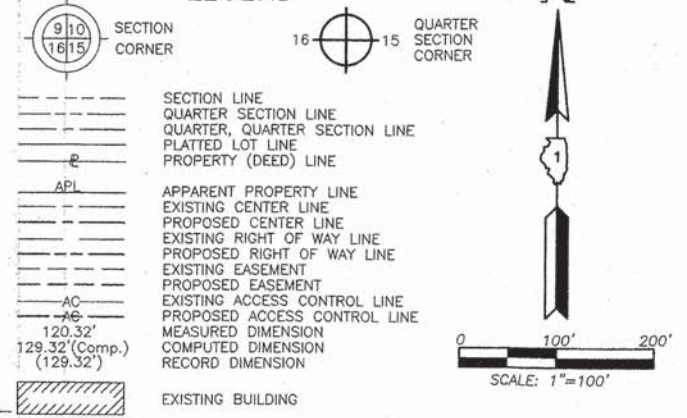
COUNTY ENGINEER \_\_\_\_\_

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
 WASHINGTON STREET  
 LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE  
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97  
 STATION NONE TO STATION  
 SCALE: 1"=100' SHEET 7 OF 9

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

**LEGEND**



Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

IRON PIPE OR ROD FOUND    ⊕    "MAG" NAIL SET  
 CUT CROSS FOUND OR SET    ●    5/8" REBAR SET

T1, T2, T3: THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

BT1, BT2, BT3: THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 12<sup>TH</sup> DAY OF March 2014 A.D.

*Christian H. Jorgensen* PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_ A.D.

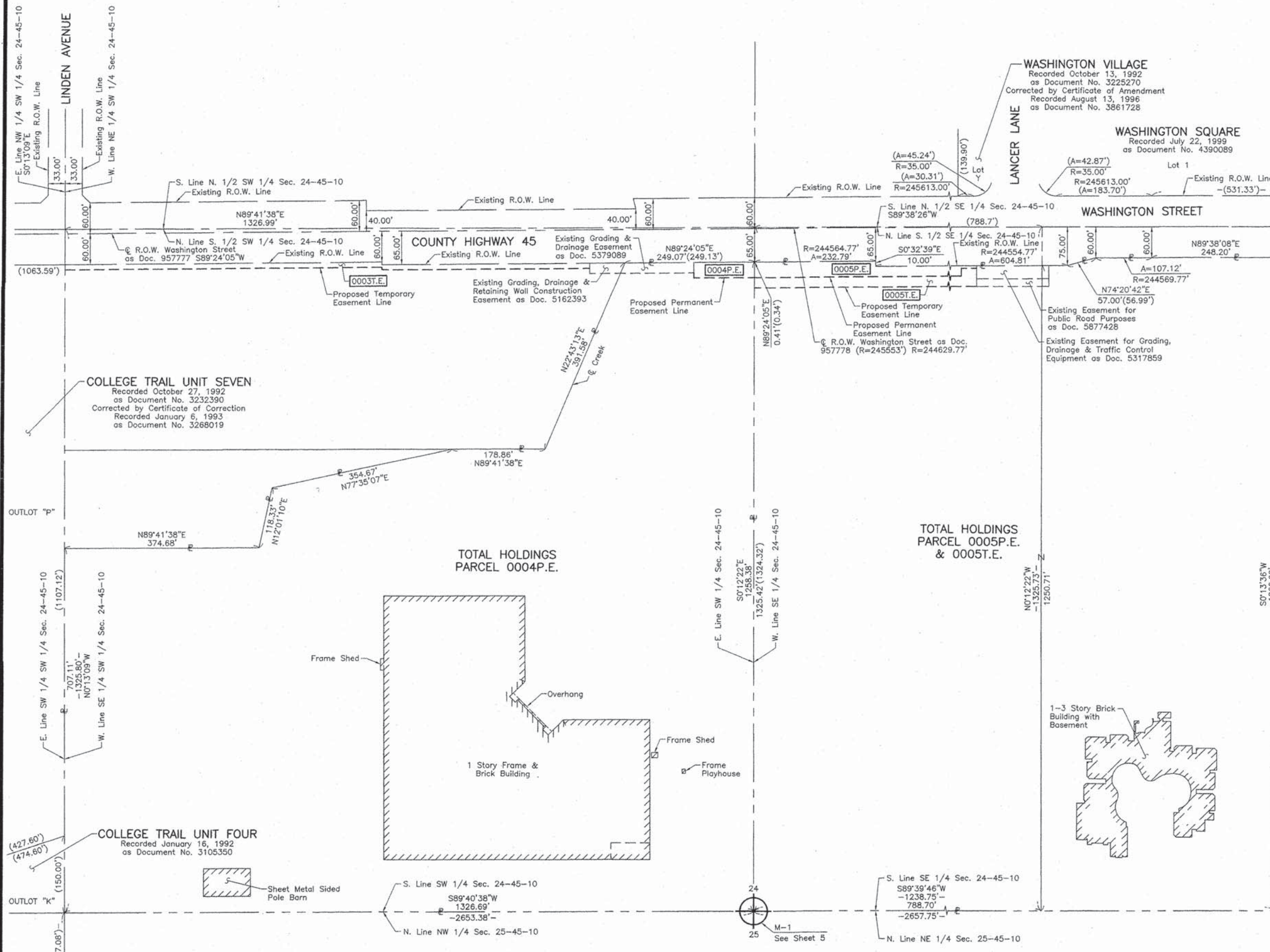
COUNTY ENGINEER

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 WASHINGTON STREET

LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE  
 SECTION: 09-00135-11-BT JOB NO.: R-55-001-97  
 STATION NONE TO STATION  
 SCALE: 1"=100' SHEET 8 OF 9

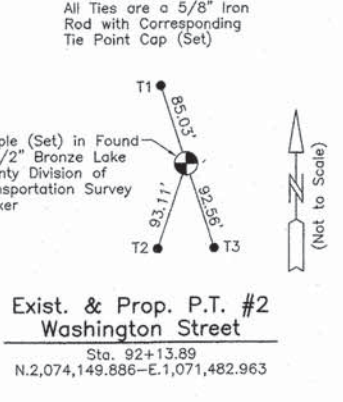
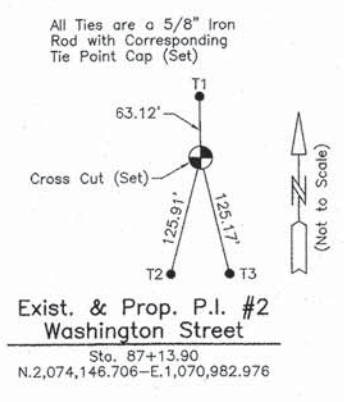
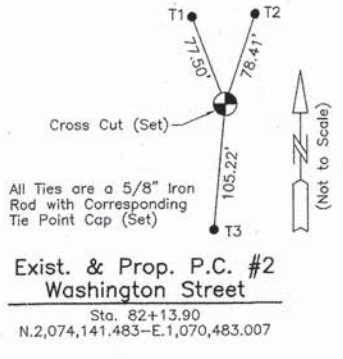
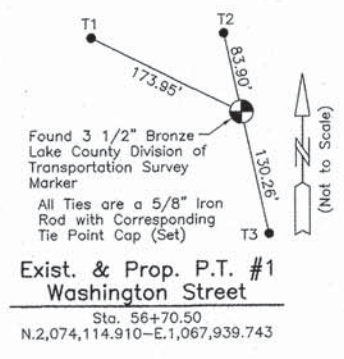
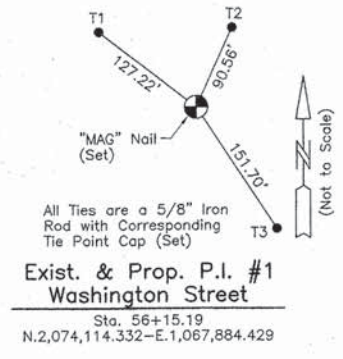
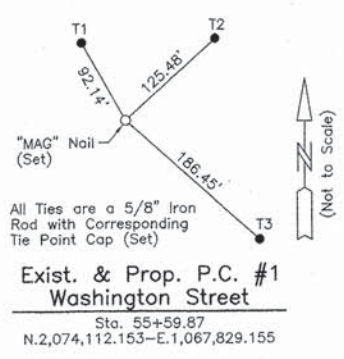
**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAMBURG, ILLINOIS 60196



REVISION DATE

REVISION

MADE BY



**LEGEND**

SECTION CORNER  
QUARTER SECTION CORNER

SECTION LINE  
QUARTER SECTION LINE  
QUARTER, QUARTER SECTION LINE  
PLATTED LOT LINE  
PROPERTY (DEED) LINE

APL

APPARENT PROPERTY LINE  
EXISTING CENTER LINE  
PROPOSED CENTER LINE  
EXISTING RIGHT OF WAY LINE  
PROPOSED RIGHT OF WAY LINE  
EXISTING EASEMENT  
PROPOSED EASEMENT  
EXISTING ACCESS CONTROL LINE  
PROPOSED ACCESS CONTROL LINE  
MEASURED DIMENSION  
COMPUTED DIMENSION  
RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND      ⊕ "MAG" NAIL SET  
+ CUT CROSS FOUND OR SET      ● 5/8" REBAR SET

● T1  
● T2  
● T3

● BT1  
● BT2  
● BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 24, TOWNSHIP 45N., RANGE 10E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT LAKE VILLA, ILLINOIS THIS 12th DAY OF March 2014 A.D.

CHRISTIAN H. JORGENSEN  
2787 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS  
LAKE VILLA, ILLINOIS

CHRISTIAN H. JORGENSEN PRESIDENT  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
Note: Surface Coordinates are Shown  
Project Average Combined Scale Factor 0.999951704

STATE OF ILLINOIS }  
COUNTY OF LAKE }SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF LAKE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF COUNTY HIGHWAY 45 IN SAID COUNTY.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_ A.D.

COUNTY ENGINEER

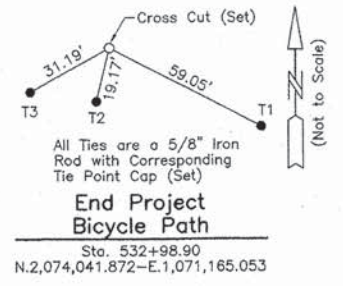
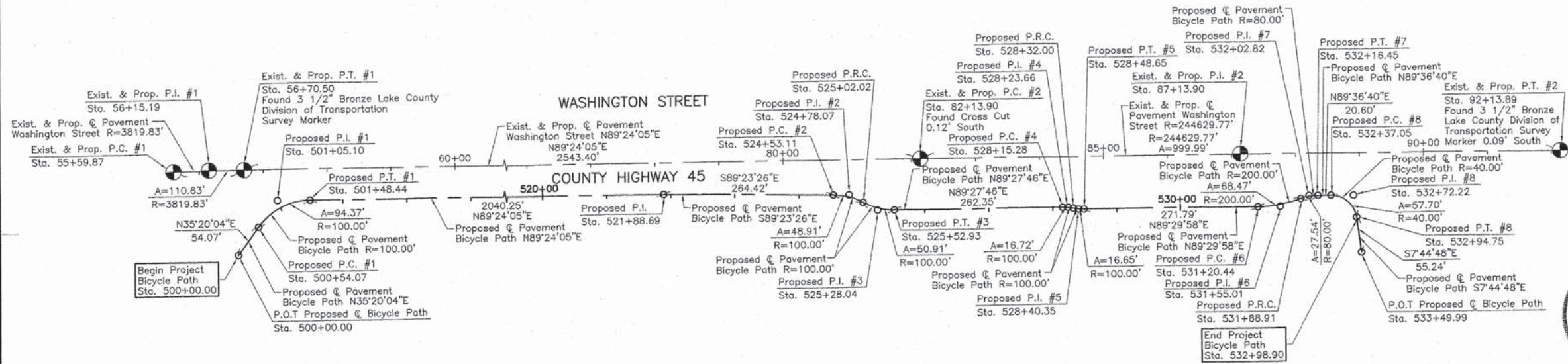
JORGENSEN & ASSOCIATES, INC.  
120 PARK AVENUE  
LAKE VILLA, ILLINOIS 60046  
(847) 356-3371

**Existing & Proposed Pavement Washington Street Curve #1**

P.I.	= Sta. 56+15.19
Δ	= 1'39"34"
R	= 3819.83'
T	= 55.32'
L	= 110.63'
E	= 0.40'
P.C.	= Sta. 55+59.87
P.T.	= Sta. 56+70.50

**Existing & Proposed Pavement Washington Street Curve #2**

P.I.	= Sta. 87+13.90
Δ	= 0'14"03"
R	= 244629.77'
T	= 500.00'
L	= 999.99'
E	= 0.51'
P.C.	= Sta. 82+13.90
P.T.	= Sta. 92+13.89



**Proposed Pavement Bicycle Path Curve #1**

P.I.	= Sta. 501+05.10
Δ	= 54°04'01"
R	= 100.00'
T	= 51.03'
L	= 94.37'
E	= 12.27'
P.C.	= Sta. 500+54.07
P.T.	= Sta. 501+48.44

**Proposed Pavement Bicycle Path Curve #2**

P.I.	= Sta. 524+78.07
Δ	= 28°01'25"
R	= 100.00'
T	= 24.96'
L	= 48.91'
E	= 3.07'
P.C.	= Sta. 524+53.11
P.R.C.	= Sta. 525+02.02

**Proposed Pavement Bicycle Path Curve #3**

P.I.	= Sta. 525+28.04
Δ	= 29°10'14"
R	= 100.00'
T	= 26.02'
L	= 50.91'
E	= 3.33'
P.R.C.	= Sta. 525+02.02
P.T.	= Sta. 525+52.93

**Proposed Pavement Bicycle Path Curve #4**

P.I.	= Sta. 528+23.66
Δ	= 9°34'44"
R	= 100.00'
T	= 8.38'
L	= 16.72'
E	= 0.35'
P.R.C.	= Sta. 528+15.28
P.T.	= Sta. 528+32.00

**Proposed Pavement Bicycle Path Curve #5**

P.I.	= Sta. 528+40.35
Δ	= 9°32'32"
R	= 100.00'
T	= 8.35'
L	= 16.65'
E	= 0.35'
P.R.C.	= Sta. 528+32.00
P.T.	= Sta. 528+48.65

**Proposed Pavement Bicycle Path Curve #6**

P.I.	= Sta. 531+55.01
Δ	= 19°36'52"
R	= 200.00'
T	= 34.57'
L	= 68.47'
E	= 2.97'
P.C.	= Sta. 531+20.44
P.R.C.	= Sta. 531+88.91

**Proposed Pavement Bicycle Path Curve #7**

P.I.	= Sta. 532+02.82
Δ	= 19°43'34"
R	= 80.00'
T	= 13.91'
L	= 27.54'
E	= 1.20'
P.R.C.	= Sta. 531+88.91
P.T.	= Sta. 532+16.45

**Proposed Pavement Bicycle Path Curve #8**

P.I.	= Sta. 532+72.22
Δ	= 82°38'32"
R	= 40.00'
T	= 35.17'
L	= 57.70'
E	= 13.26'
P.C.	= Sta. 532+37.05
P.T.	= Sta. 532+94.75

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
WASHINGTON STREET

LIMITS: ATKINSON ROAD TO LANCER LANE COUNTY: LAKE  
SECTION: 09-00135-11-BT JOB NO.: R-55-001-97  
STATION 55+59.87 TO STATION 92+13.89  
SCALE: 1"=100' SHEET 9 OF 9

**BUREAU OF LAND ACQUISITION**  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

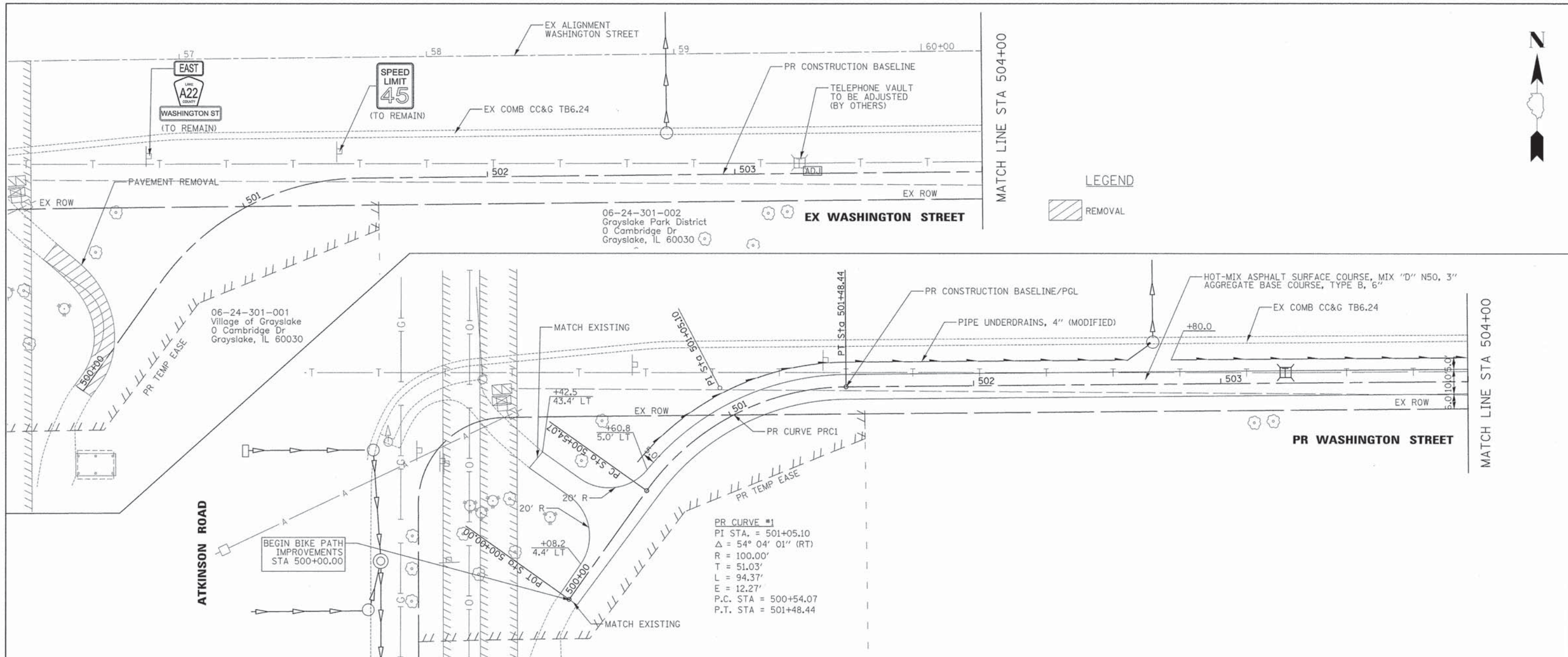
REVISION DATE REVISION

MADE BY



DATE	
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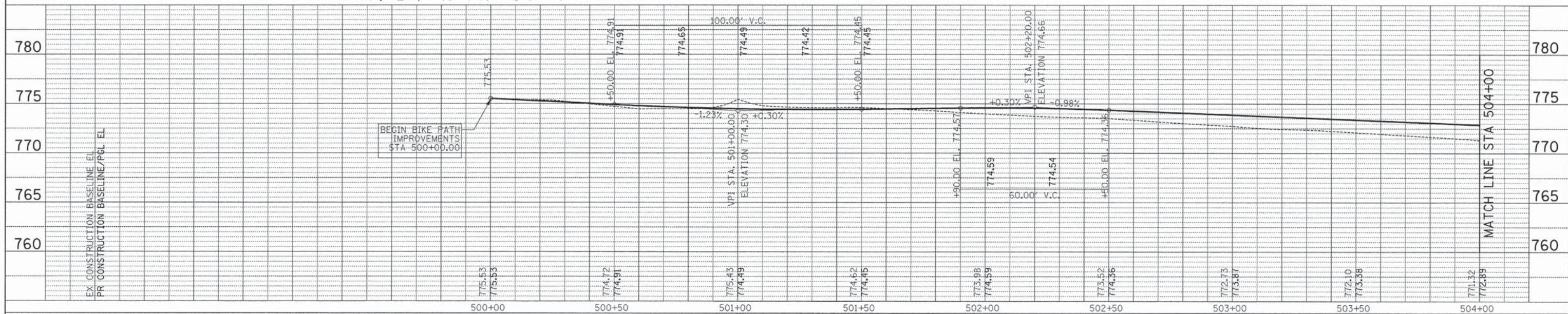
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DATE	
BY	
REVISIONS	
NO.	



06-24-301-002  
Grayslake Park District  
0 Cambridge Dr  
Grayslake, IL 60030

06-24-301-001  
Village of Grayslake  
0 Cambridge Dr  
Grayslake, IL 60030

PR CURVE #1  
PI STA. = 501+05.10  
 $\Delta = 54^\circ 04' 01''$  (RT)  
R = 100.00'  
T = 51.03'  
L = 94.37'  
E = 12.27'  
P.C. STA = 500+54.07  
P.T. STA = 501+48.44



**CIVILTECH**  
450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



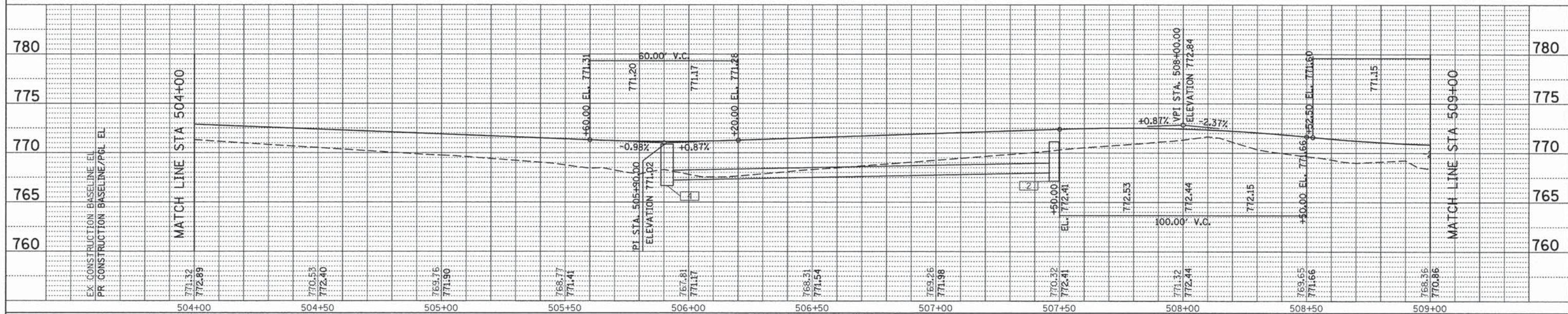
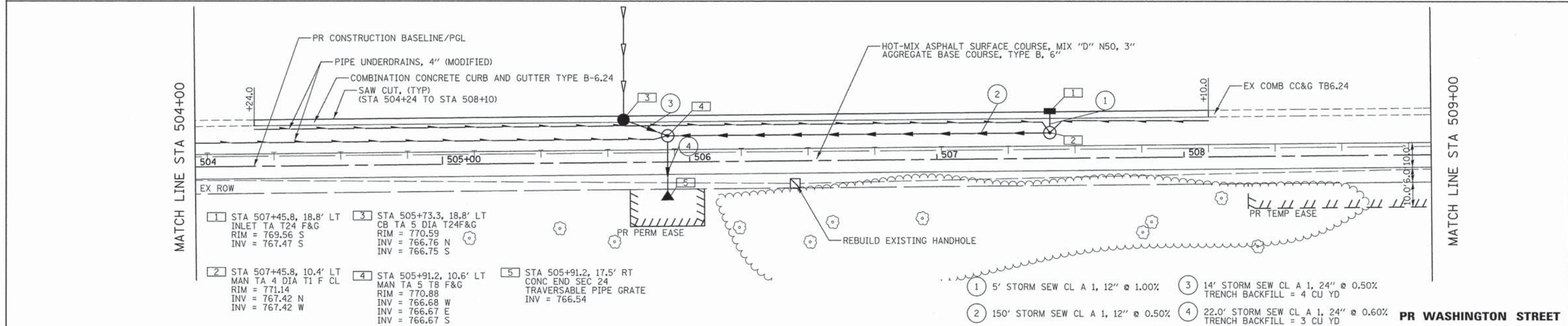
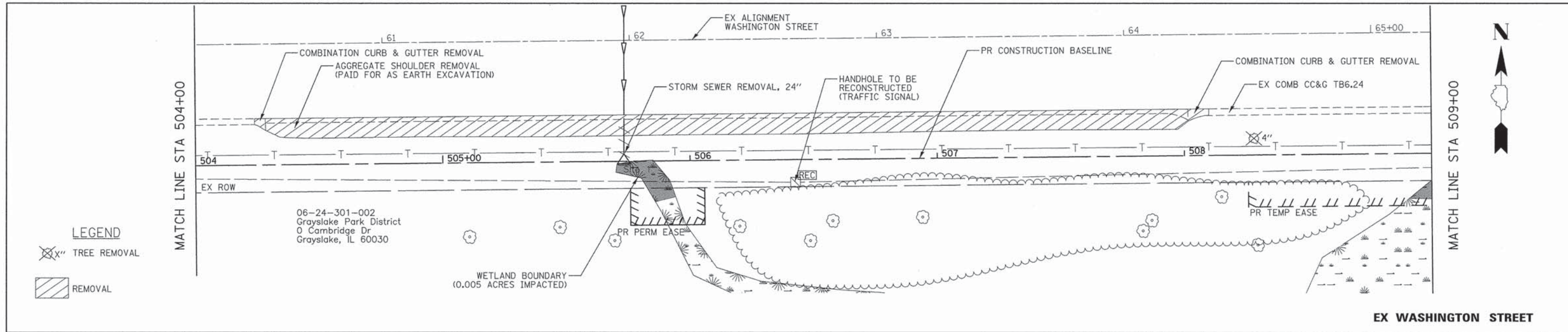
**PLAN AND PROFILE**

SHEET NO. 1 OF 7 SHEETS STA. 500+00 TO STA. 504+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	20
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
NO.	

DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
NO.	



DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



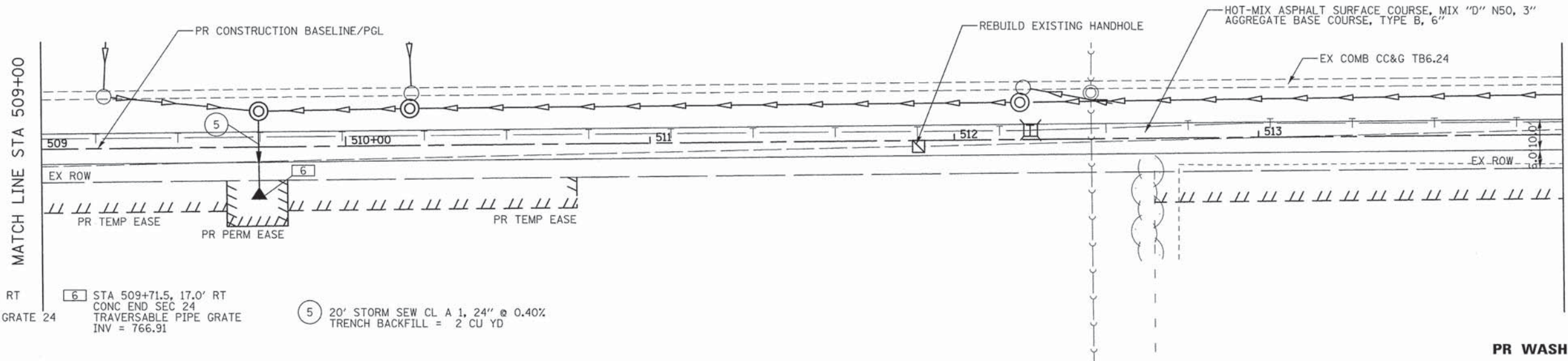
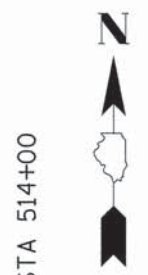
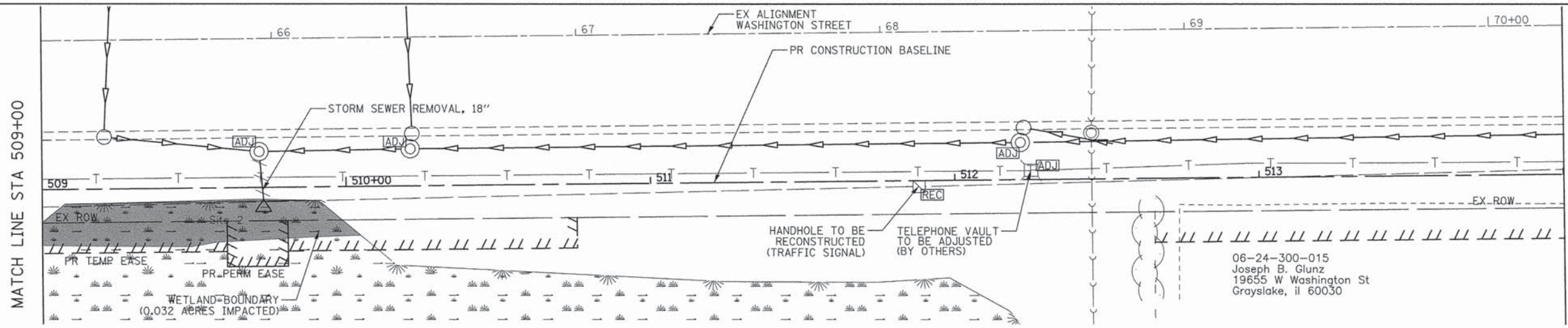
PLAN AND PROFILE

SHEET NO. 2 OF 7 SHEETS STA. 504+00 TO STA. 509+00

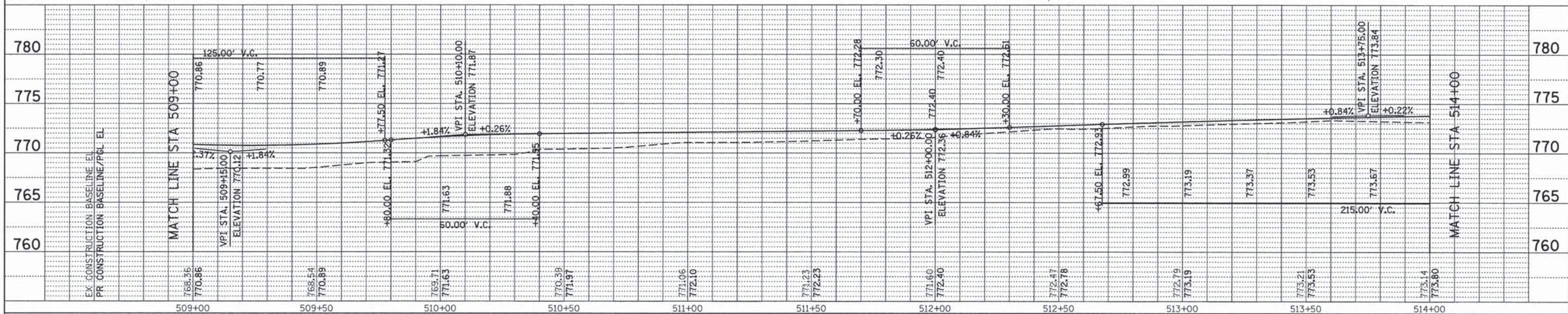
F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 21
CONTRACT NO. 61A40				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT

DATE	
BY	
REVISIONS	
NO.	
PLANNING	
DESIGN	
CHECKED	
DATE	
NO.	

DATE	
BY	
REVISIONS	
NO.	
PROFILE	
GRADES	
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DATE	
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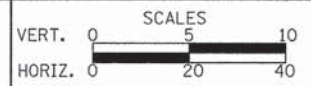
- 5 STA 505+91.2, 17.5' RT CONC END SEC 24 TRAVERSABLE PIPE GRATE 24 INV = 766.54
- 6 STA 509+71.5, 17.0' RT CONC END SEC 24 TRAVERSABLE PIPE GRATE 24 INV = 766.91
- 5 20' STORM SEW CL A 1, 24" @ 0.40% TRENCH BACKFILL = 2 CU YD



**CIVILTECH**  
 450 E Devon Ave, Suite 300  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



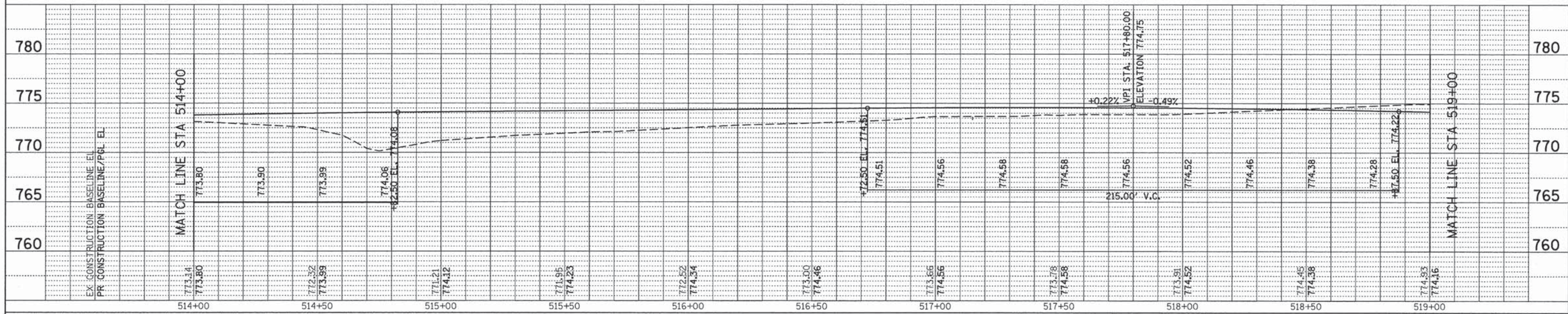
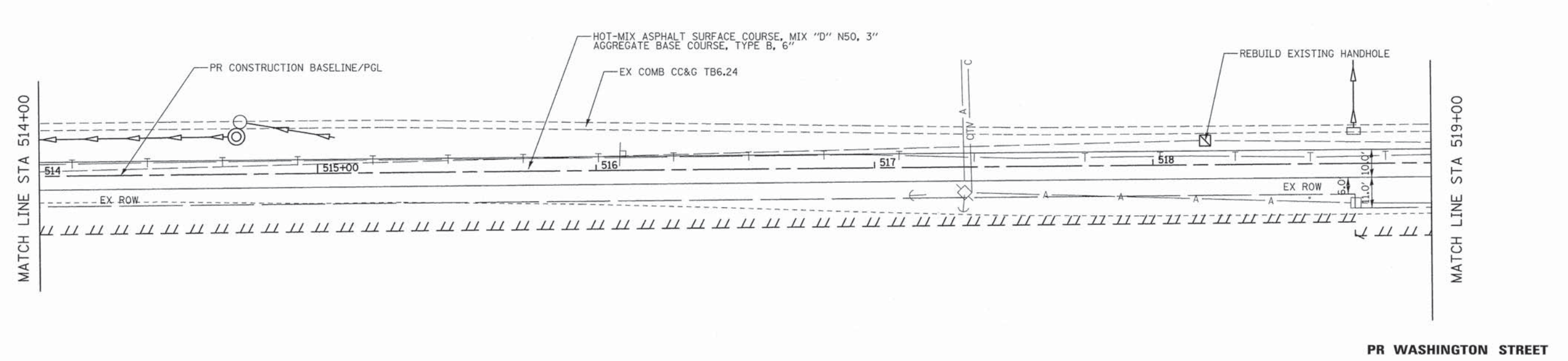
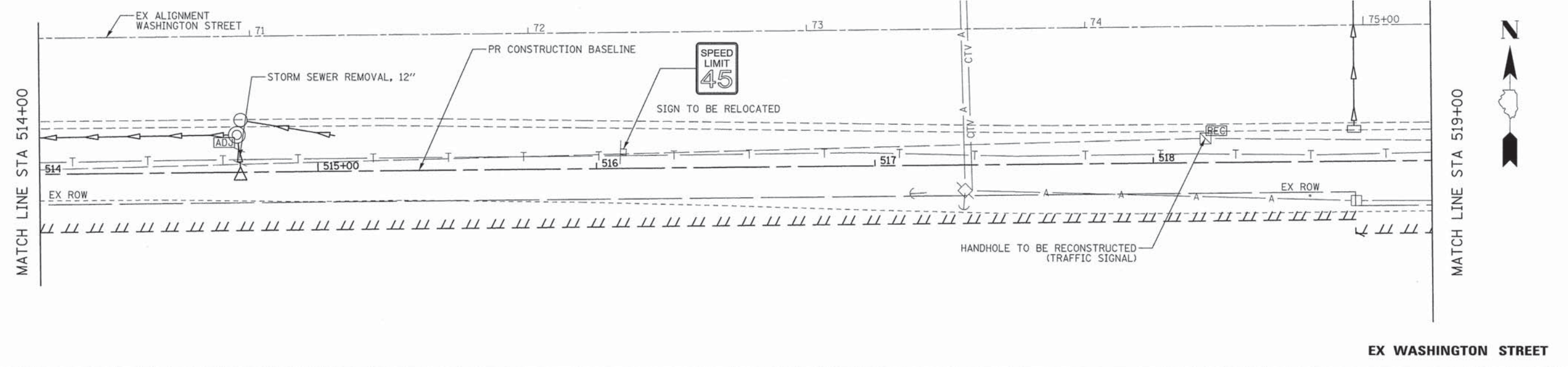
**PLAN AND PROFILE**

SHEET NO. 3 OF 7 SHEETS STA. 509+00 TO STA. 514+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	22
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVIEWED	
DESIGNED	
PLANNED	
NOTED	
CHECKED	
NO. OF WAY CHECKED	
NO. OF TIE SHEETS	
NO.	

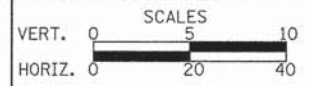
DATE	
BY	
REVIEWED	
DESIGNED	
PLANNED	
NOTED	
CHECKED	
NO. OF WAY CHECKED	
NO. OF TIE SHEETS	
NO.	



**CIVILTECH**  
 450 E Devon Ave, Suite 300  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

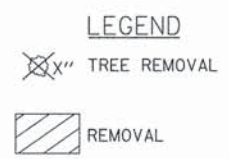
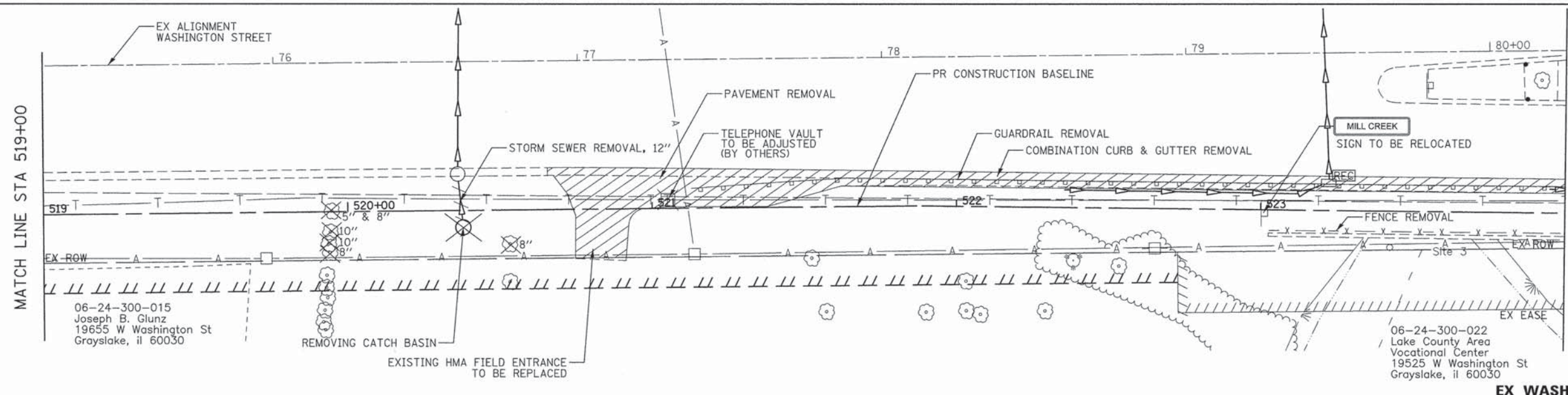
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**PLAN AND PROFILE**

SHEET NO. 4 OF 7 SHEETS STA. 514+00 TO STA. 519+00

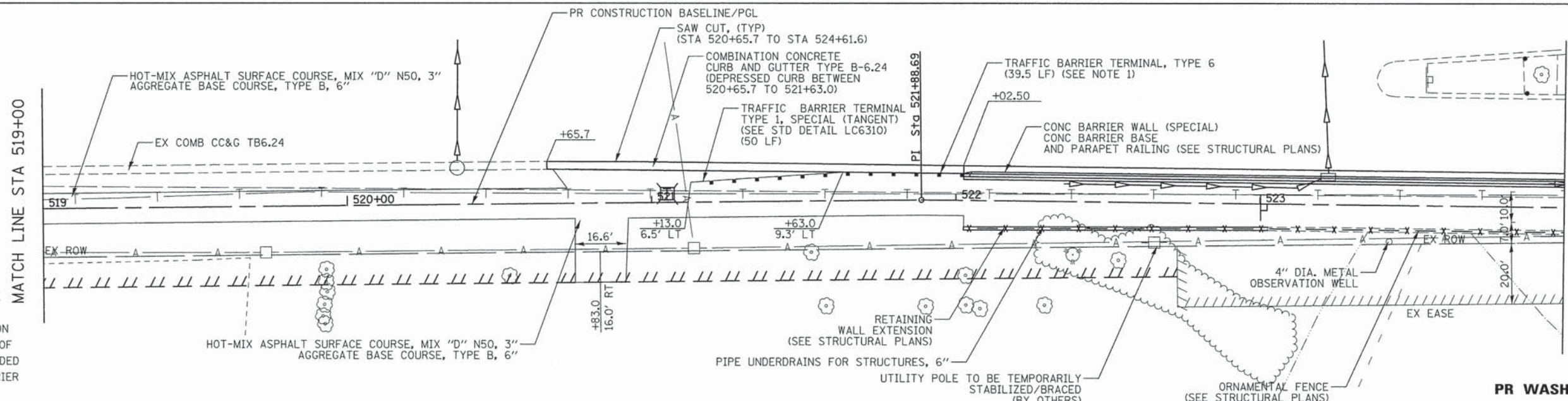
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	23
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



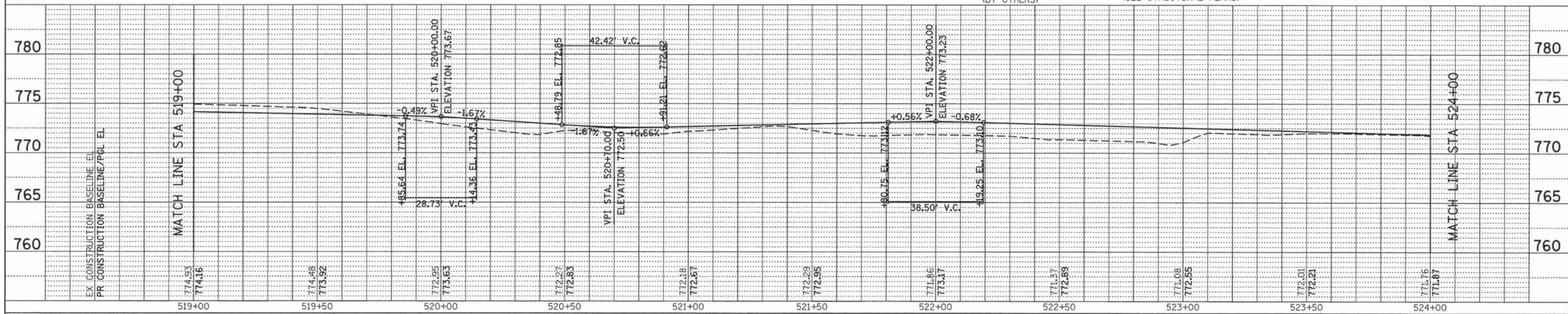
06-24-300-015  
Joseph B. Glunz  
19655 W Washington St  
Grayslake, IL 60030

06-24-300-022  
Lake County Area  
Vocational Center  
19525 W Washington St  
Grayslake, IL 60030

EX WASHINGTON STREET



NOTE 1:  
A RUB RAIL ON THE PATH SIDE  
OF THE GUARD RAIL SHALL BE  
CONSTRUCTED AT THE DIRECTION  
OF THE ENGINEER. THE COST OF  
THE RUB RAIL SHALL BE INCLUDED  
IN THE COST OF TRAFFIC BARRIER  
TERMINAL, TYPE 6.



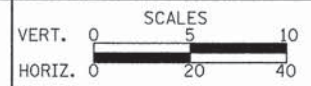
REVISION NO.	DATE	BY

REVISION NO.	DATE	BY

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CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN AND PROFILE

SHEET NO. 5 OF 7 SHEETS STA. 519+00 TO STA. 524+00

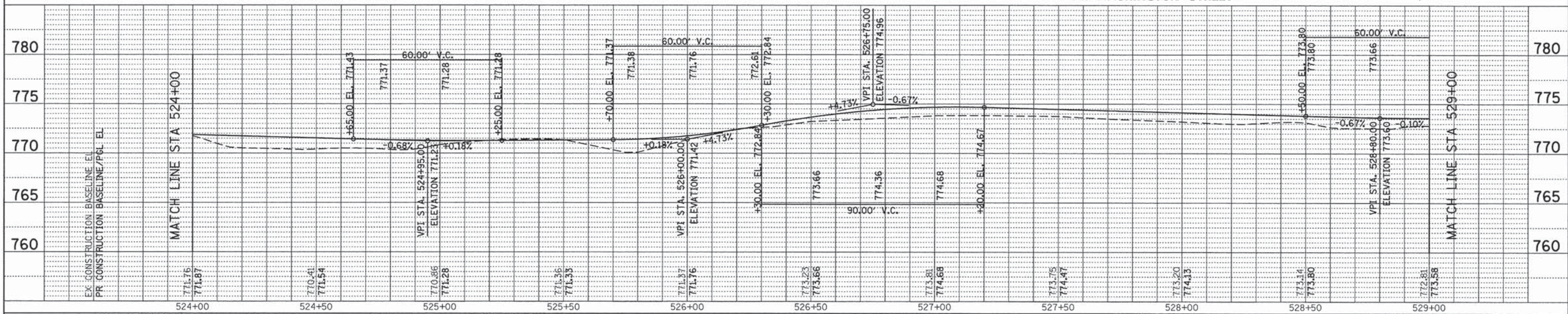
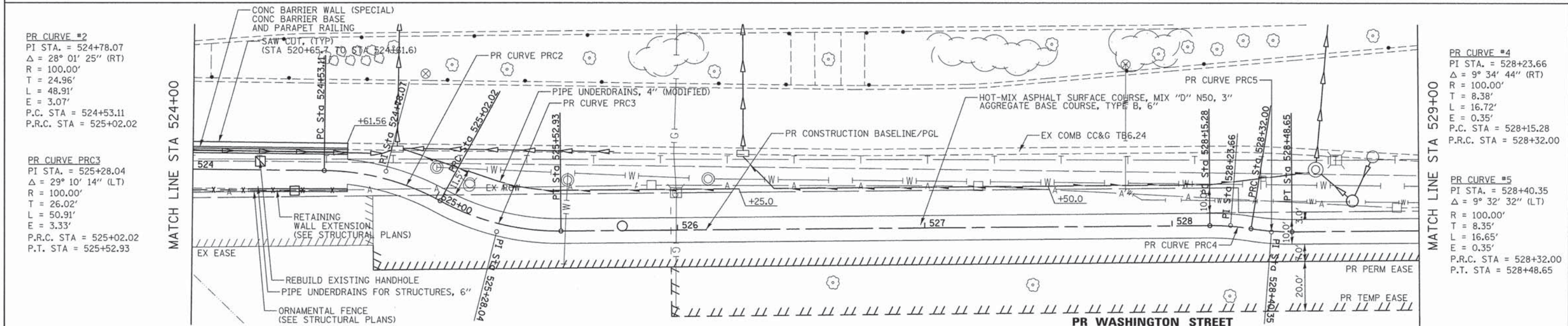
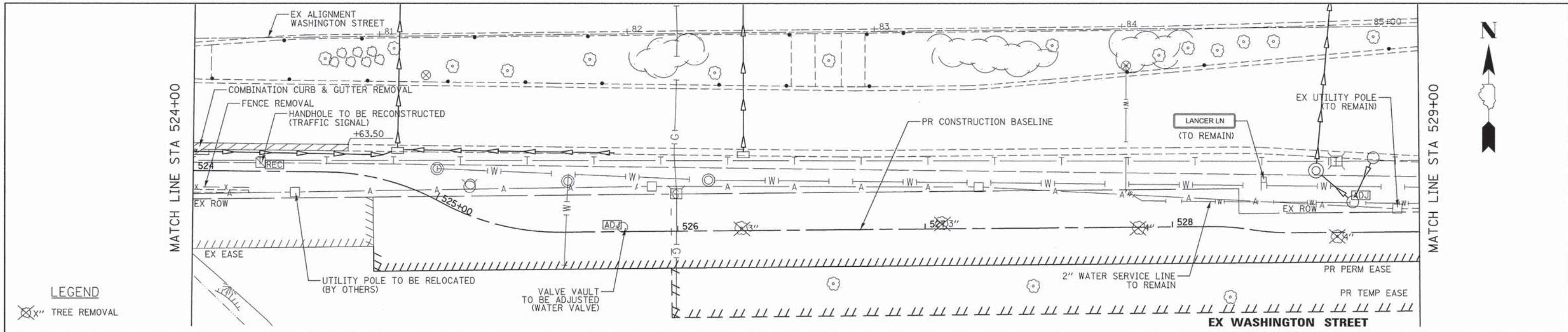
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	24

CONTRACT NO. 61A40  
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT



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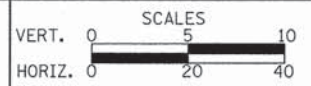
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DESCRIPTION	



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DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



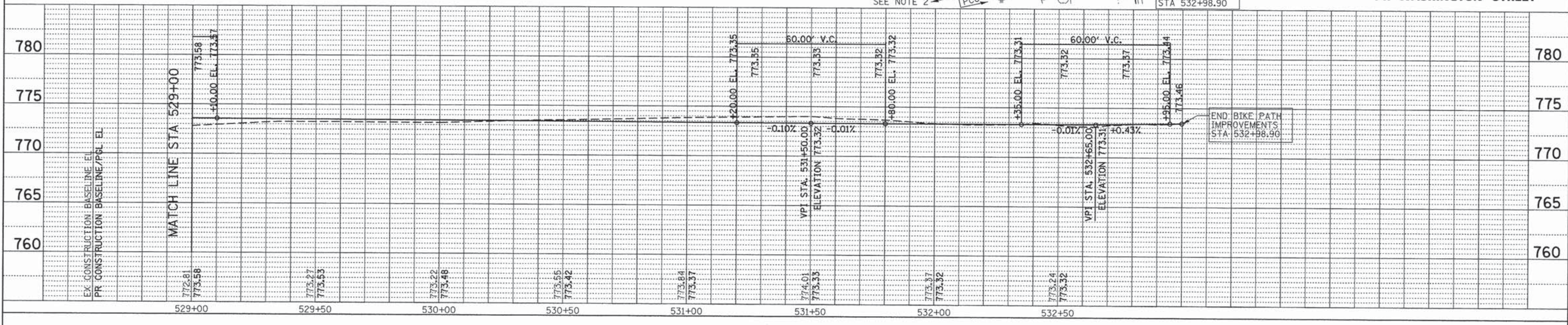
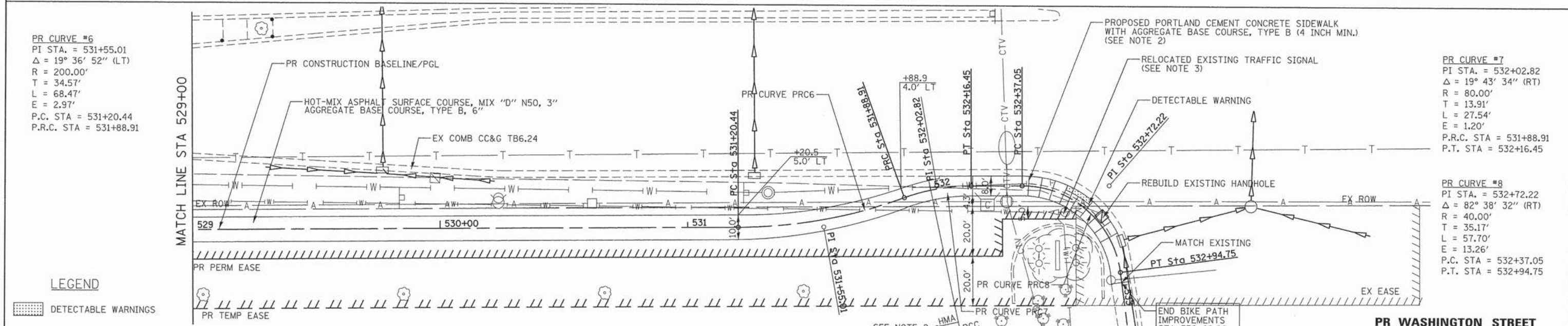
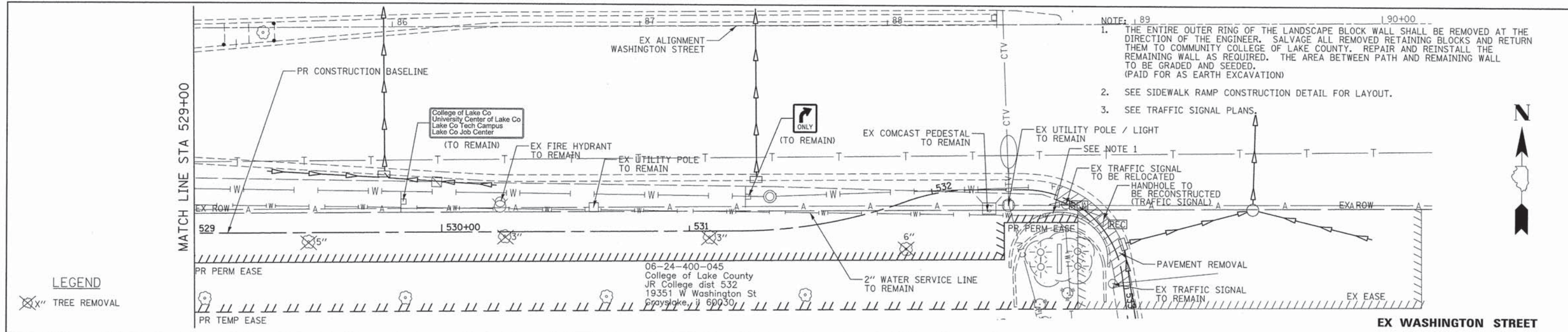
**PLAN AND PROFILE**

SHEET NO. 6 OF 7 SHEETS STA. 524+00 TO STA. 529+00

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 25
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

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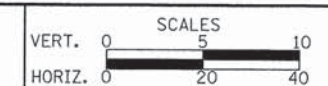
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DESCRIPTION	



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CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

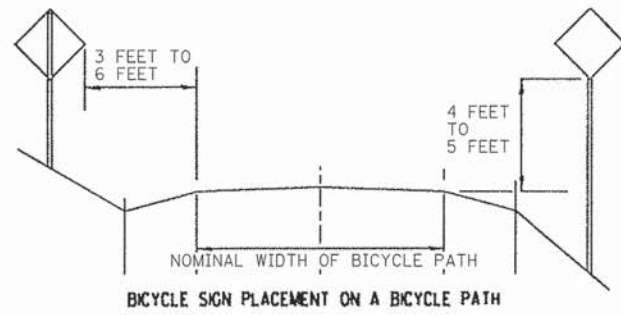


**PLAN AND PROFILE**

SHEET NO. 7 OF 7 SHEETS STA. 529+00 TO STA. 533+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	26
CONTRACT NO. 61A40			ILLINOIS FED. AID PROJECT	

# BICYCLE PATH CONSTRUCTION SIGNING

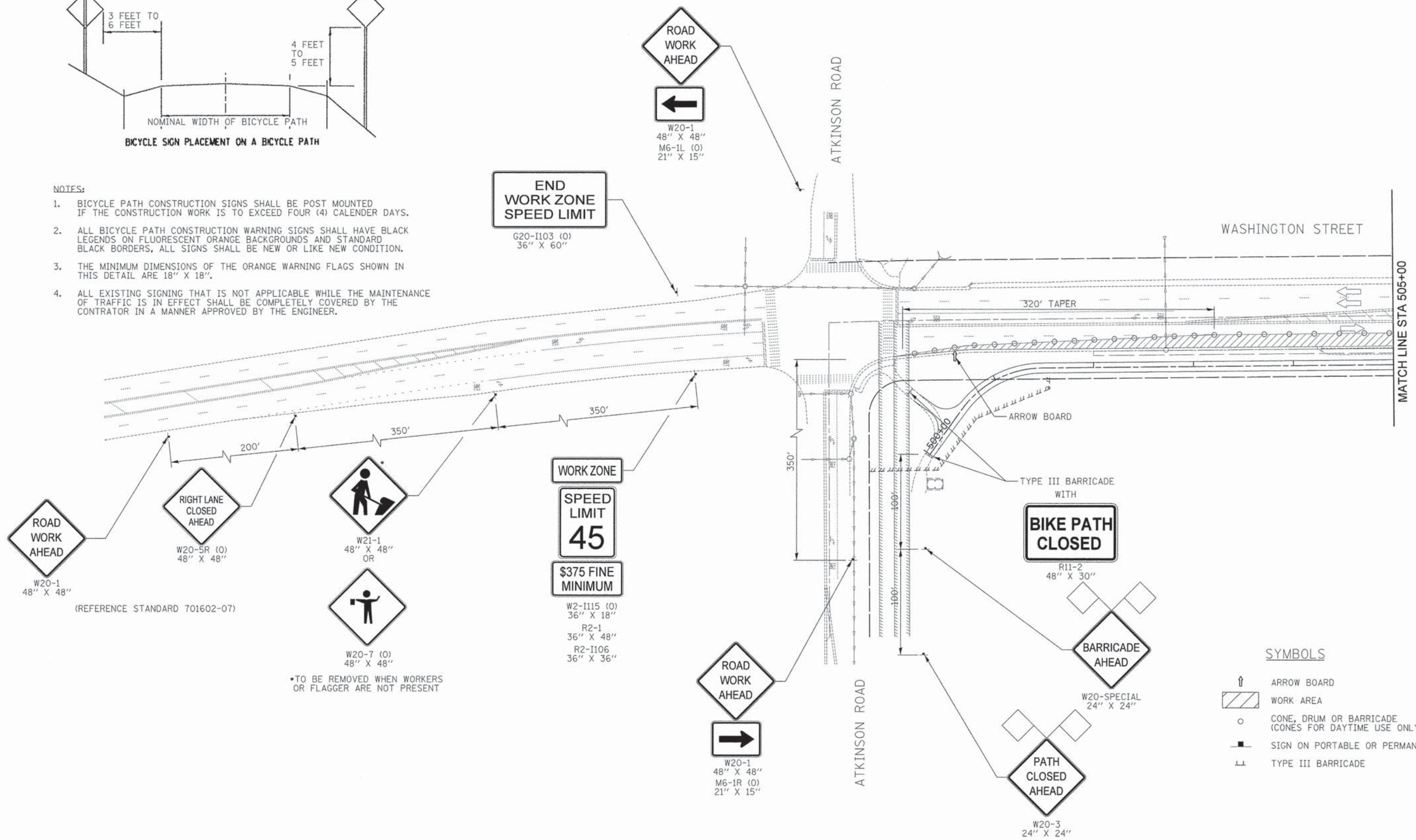


**NOTES:**

1. BICYCLE PATH CONSTRUCTION SIGNS SHALL BE POST MOUNTED IF THE CONSTRUCTION WORK IS TO EXCEED FOUR (4) CALENDER DAYS.
2. ALL BICYCLE PATH CONSTRUCTION WARNING SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS, ALL SIGNS SHALL BE NEW OR LIKE NEW CONDITION.
3. THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THIS DETAIL ARE 18" X 18".
4. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE MAINTENANCE OF TRAFFIC IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRATOR IN A MANNER APPROVED BY THE ENGINEER.

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PROFILE	
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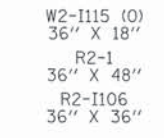
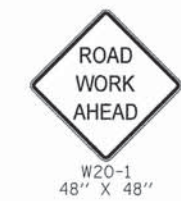


**SYMBOLS**

	ARROW BOARD
	WORK AREA
	CONE, DRUM OR BARRICADE (CONES FOR DAYTIME USE ONLY)
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE III BARRICADE

\*TO BE REMOVED WHEN WORKERS OR FLAGGER ARE NOT PRESENT

(REFERENCE STANDARD 701602-07)

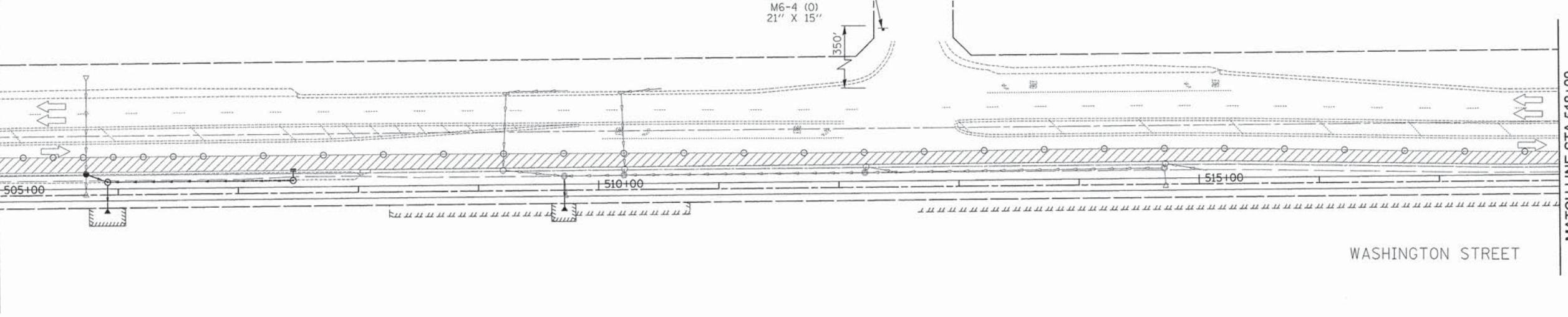




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	CHECKED		
	ALIGNED		
	NOTE BOOK		
	NO. OF WAY CHECKED		
	NO.		

PROFILE	DESIGNED	BY	DATE
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	GRADES CHECKED		
	NO. NOTED		
	NO.		

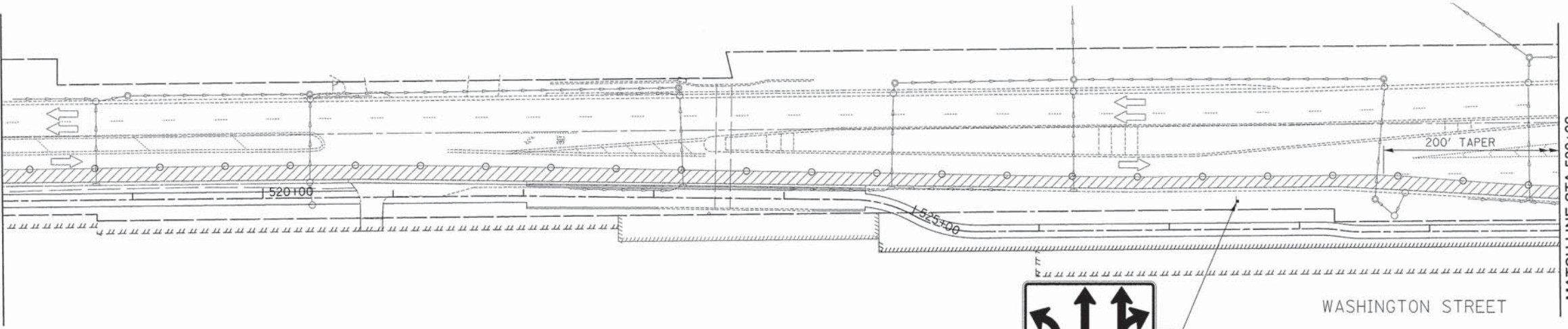
MATCH LINE STA 505+00



MATCH LINE STA 518+00

WASHINGTON STREET

MATCH LINE STA 518+50



MATCH LINE STA 530+00

WASHINGTON STREET



R3-8  
48" X 36"  
(CONSIDER ADDING IF LANE CLOSURES LAST MORE THAN TWO WEEKS)

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**MAINTENANCE OF TRAFFIC**

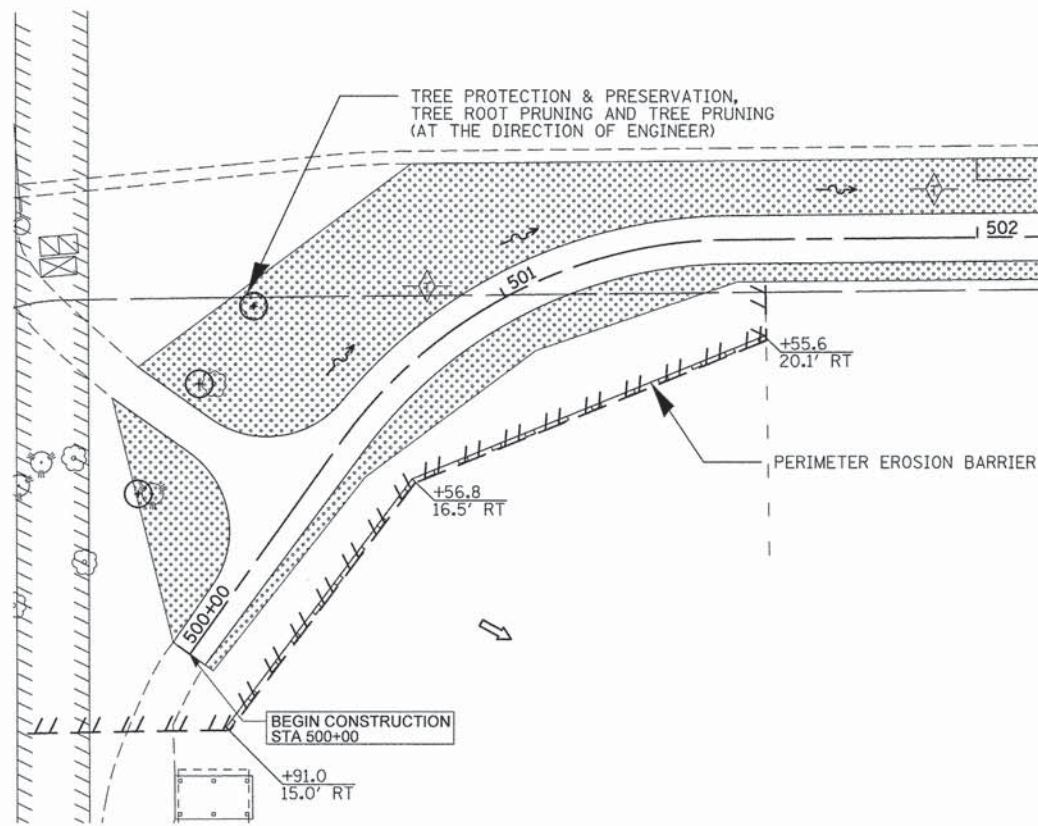
SHEET NO. 2 OF 3 SHEETS STA. 505+00 TO STA. 530+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	28
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



**SEDIMENTATION AND EROSION CONTROL NOTES**

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
  - UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
  - AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. 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 AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. INTENTIONALLY LEFT BLANK.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.



**SMC TYPICAL CONSTRUCTION SEQUENCE**

1. Installation of soil erosion and sediment control SE/SC measures
    - a.) Selective vegetation removal for silt fence installation
    - b.) Silt fence installation
    - c.) Construction fencing around areas not to be disturbed
  2. Tree removal where necessary (clear & grub)
  3. Construct sediment trapping devices (sediment traps, basins...)
  4. Intentionally blank
  5. Strip topsoil, stockpile topsoil and grade site
  6. Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
  7. Install storm sewer, sanitary sewer, water and associated inlet & outlet protection
  8. Permanently stabilize detention basins with seed and erosion control blanket
  9. Temporarily stabilize all areas including lots that have reached temporary grade
  10. Install roadways
  11. Permanently stabilize all outlet areas
  12. Install structures and grade individual lots
  13. Permanently stabilize lots
  14. Remove all temporary SE/SC measures after the site is stabilized with vegetation
- Soil erosion and sediment control maintenance must occur every two weeks and after every 1/2" or greater rainfall event

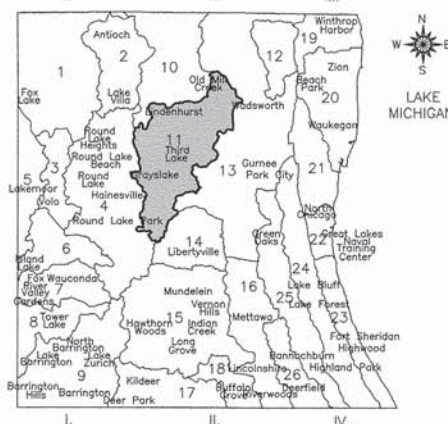
NOTE:  
EROSION CONTROL SHEETS REFLECT FINAL LANDSCAPING.

1. PERIMETER EROSION BARRIER SHALL BE INSTALLED 1 FOOT FROM RIGHT-OF-WAY OR EASEMENT. REFERENCE THE PLAT OF HIGHWAY SHEETS FOR STATIONS AND OFFSETS.
- 2.

**NPDES STATEMENT:**  
THIS PROJECT DISTURBS 2.6 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1.0 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT IS REQUIRED FOR THIS PROJECT.

**DRAINAGE BASINS OF LAKE COUNTY**

- I. FOX RIVER WATERSHED
  1. Upper Fox River
  2. Sequoit Creek
  3. Fish Lake Drain
  4. Squaw Creek
  5. Lower Fox River
  6. Mutton Creek
  7. Slocum Lake Drain
  8. Tower Lake Drain
  9. Flint Creek
- II. DES PLAINES RIVER WATERSHED
  10. North Mill Creek
  11. Mill Creek
  12. Newport Drainage Ditch
  13. Upper Des Plaines River
  14. Bull Creek
  15. Indian Creek
  16. Lower Des Plaines River
  17. Buffalo Creek
  18. Aptakisic Creek
- III. LAKE MICHIGAN WATERSHED
  19. Kellogg Creek
  20. Dead River
  21. Waukegan River
  22. Pettibone Creek
  23. Bluff/Ravine
- IV. CHICAGO RIVER WATERSHED
  24. Skokie River
  25. Middle Fork
  26. West Fork



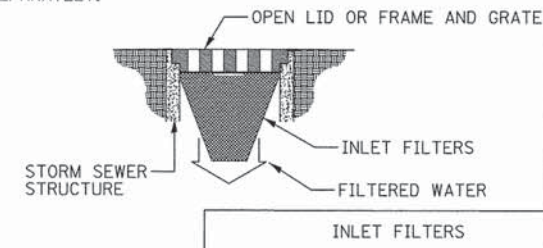
**ESTIMATED QUANTITIES:**

- 3,178 FEET - PERIMETER EROSION BARRIER
- 2 EACH - INLET AND PIPE PROTECTION
- 16 EACH - INLET FILTERS
- 1.75 ACRE - SEEDING, CLASS 2A
- 0.25 ACRE - SEEDING, CLASS 4
- 8,470 SQ YD - EROSION CONTROL BLANKET
- 5 EACH - FLOCCULATION LOGS
- 15 POUND - FLOCCULATION POWDER
- 10 EACH - TREE PROTECTION & PRESERVATION
- 140 FEET - TEMPORARY DITCH CHECKS

**LEGEND**

- ROADWAY DITCH FLOW
- OVERLAND FLOW DIRECTION
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION (PAID FOR AS 1 INLET FILTER AND 16 LF OF PERIMETER EROSION BARRIER PER IDOT STANDARD 280001-07)
- INLET FILTERS
- PERIMETER EROSION BARRIER
- EXISTING TREES
- TREE PROTECTION & PRESERVATION, TREE ROOT PRUNING AND TREE PRUNING (AT THE DIRECTION OF ENGINEER)
- TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM SEEDING, CLASS 2A EROSION CONTROL BLANKET)

NOTE:  
ALL OPEN LID MANHOLES, INLETS AND CATCH BASINS REGARDLESS OF WHETHER THEY ARE DESIGNATED TO BE PROTECTED WITH INLET AND PIPE PROTECTION, ARE TO USE A DRAINAGE STRUCTURE INLET FILTER ASSEMBLY, CONSISTING OF A FRAME AND FILTER BAG, TO COLLECT SEDIMENT IN THE SURFACE STORMWATER RUNOFF AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR SEPARATELY.

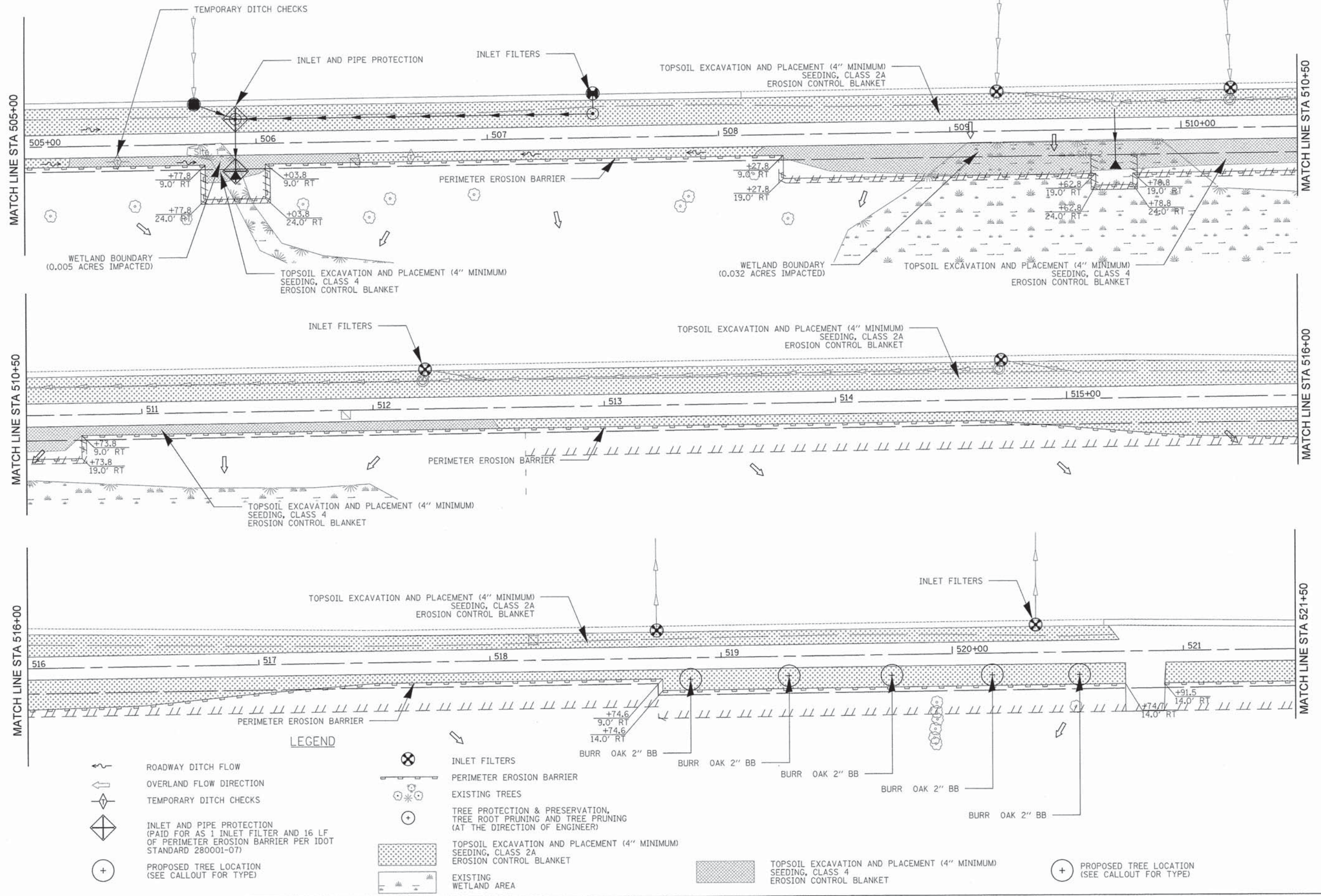


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LEGEND	
	ROADWAY DITCH FLOW
	OVERLAND FLOW DIRECTION
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION (PAID FOR AS 1 INLET FILTER AND 16 LF OF PERIMETER EROSION BARRIER PER IDOT STANDARD 280001-07)
	PROPOSED TREE LOCATION (SEE CALLOUT FOR TYPE)
	INLET FILTERS
	PERIMETER EROSION BARRIER
	EXISTING TREES
	TREE PROTECTION & PRESERVATION, TREE ROOT PRUNING AND TREE PRUNING (AT THE DIRECTION OF ENGINEER)
	TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM) SEEDING, CLASS 2A EROSION CONTROL BLANKET
	TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM) SEEDING, CLASS 4 EROSION CONTROL BLANKET
	EXISTING WETLAND AREA
	PROPOSED TREE LOCATION (SEE CALLOUT FOR TYPE)

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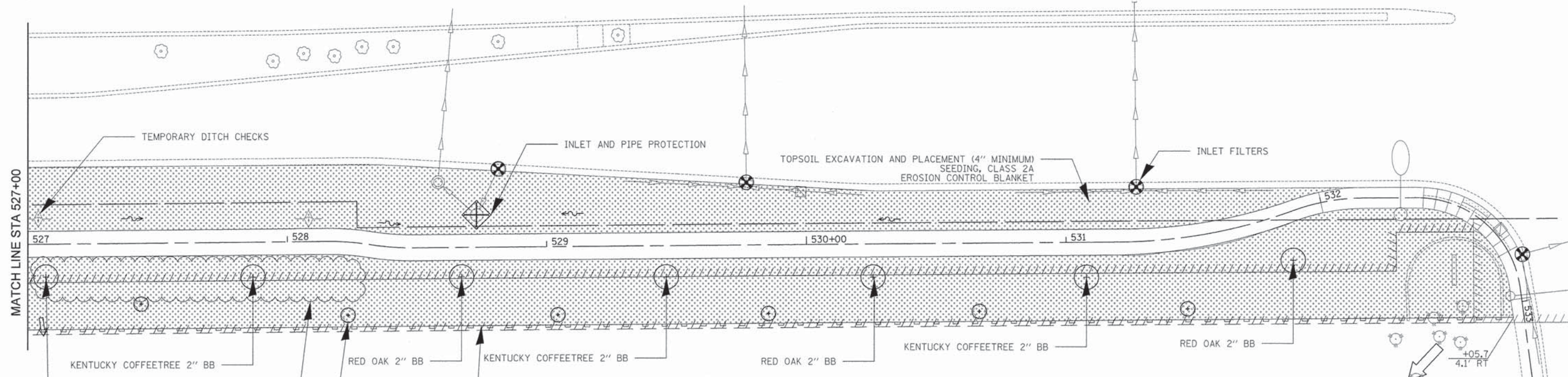
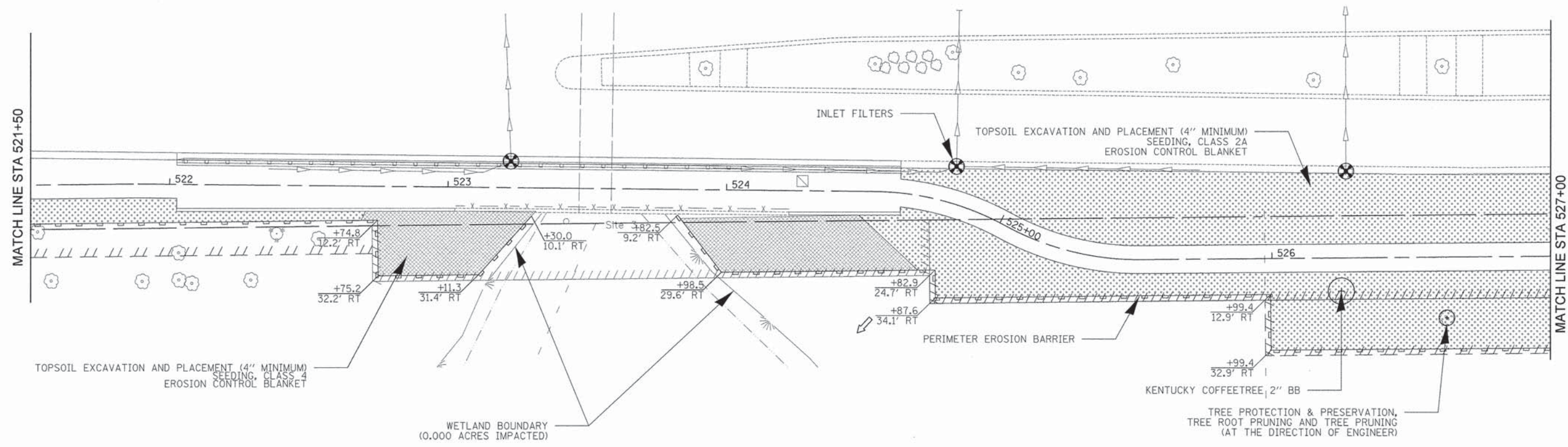
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DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**EROSION CONTROL AND LANDSCAPING**  
 SHEET NO. 2 OF 3 SHEETS STA. 507+00 TO STA. 521+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	31
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



**LEGEND**

- ROADWAY DITCH FLOW
- OVERLAND FLOW DIRECTION
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION (PAID FOR AS 1 INLET FILTER AND 16 LF OF PERIMETER EROSION BARRIER PER IDOT STANDARD 280001-07)
- PROPOSED TREE LOCATION (SEE CALLOUT FOR TYPE)
- INLET FILTERS
- PERIMETER EROSION BARRIER
- EXISTING TREES
- TREE PROTECTION & PRESERVATION, TREE ROOT PRUNING AND TREE PRUNING (AT THE DIRECTION OF ENGINEER)
- TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM) SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM) SEEDING, CLASS 4 EROSION CONTROL BLANKET

PLAN	REVISIONS	DATE
NO.	BY	
1	JRR	
2	JRR	
3	RTM	
4	JRR	
5	JRR	
6	JRR	
7	JRR	
8	JRR	
9	JRR	
10	JRR	

PROFILE	REVISIONS	DATE
NO.	BY	
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2	JRR	
3	JRR	
4	JRR	
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6	JRR	
7	JRR	
8	JRR	
9	JRR	
10	JRR	

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DRAWN -	JRR	REVISED -	
CHECKED -	RTM	REVISED -	
DATE -	03/24/2014	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**EROSION CONTROL AND LANDSCAPING**

SHEET NO. 3 OF 3 SHEETS STA. 521+00 TO STA. 533+00

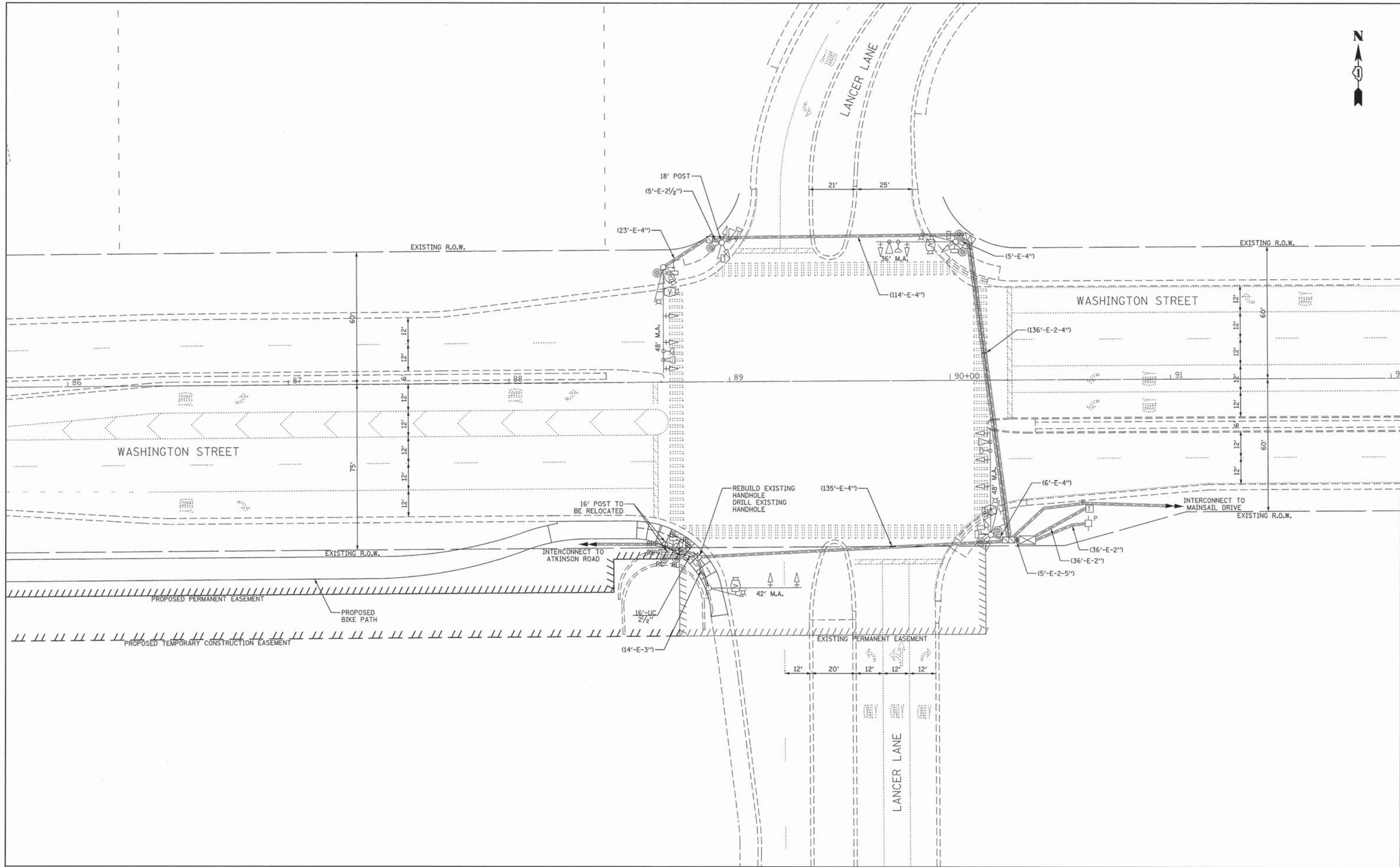
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	32
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				





PLAN	SURVEYED	BY	DATE
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	PT. OF WAY CHECKED		
	NO.		

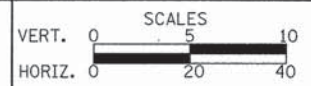
PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATED		
	CHEKED		
	NO.		



**CIVILTECH**  
 450 E Devon Ave, Suite 300  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DESIGNED - OJT	REVISED -
DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



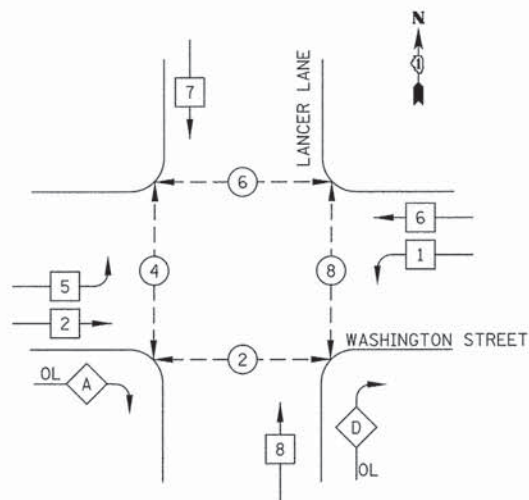
**TRAFFIC SIGNAL MODIFICATION PLAN  
 WASHINGTON STREET AT LANCER LANE**

SHEET NO. OF SHEETS STA. TO STA.

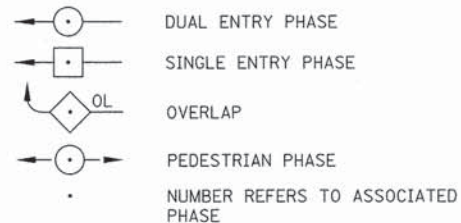
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	33
CONTRACT NO. 61A40				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND

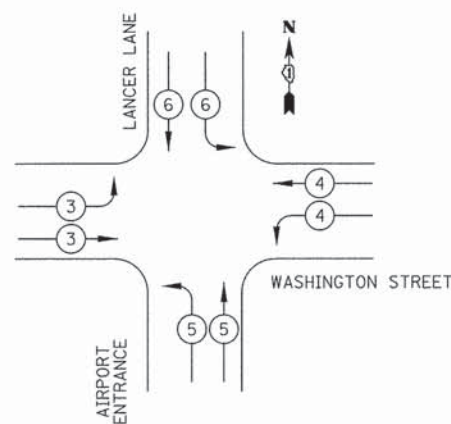


PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

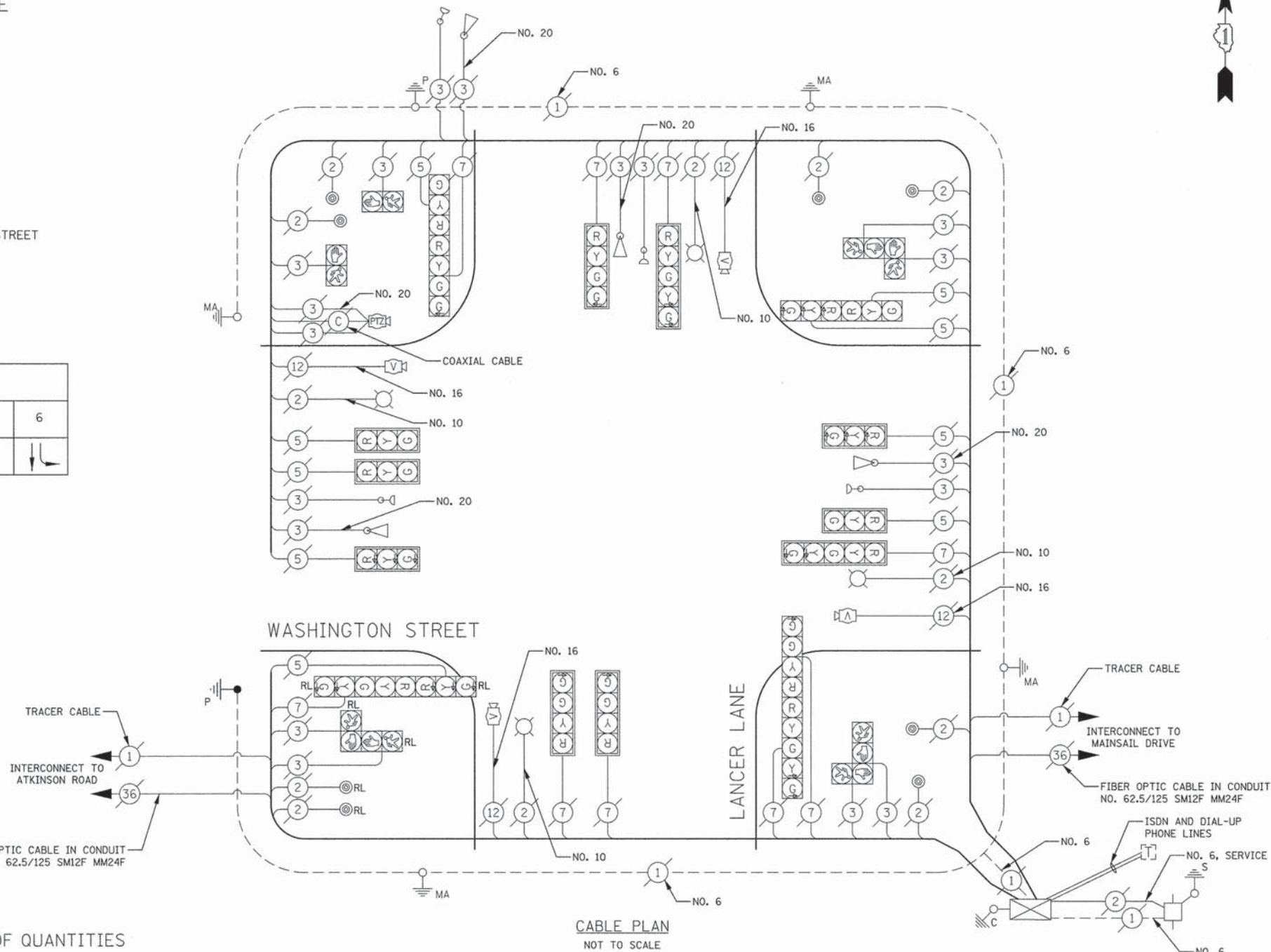
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
D	= 8	+ 1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				



CABLE PLAN  
NOT TO SCALE

NOTE:  
THE END OF TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	16
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
DRILL EXISTING HANDHOLE	FOOT	4
CONCRETE FOUNDATION, TYPE A	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	362
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	18	135	17	50	153
(YELLOW)	14	135	25	25	88
(GREEN)	19	135	15	25	71
ARROW	16	135	12	10	19
CONTROLLER	1	100	100	100	100
VIDEO SYSTEMS	1	150	150	100	150
PED. SIGNAL	8	90	25	100	200
LUMINAIRE	4	250		50	500
TOTAL =					1281

ENERGY COSTS TO: LAKE COUNTY DIVISION OF TRANSPORTATION  
600 W. WINCHESTER ROAD  
LIBERTYVILLE, IL 60048

ENERGY SUPPLY: CONTACT: JULIE SNOW  
PHONE: 847-816-5329  
COMPANY: COMMONWEALTH EDISON

PLAN SURVEYED BY DATE  
DRAWN BY DATE  
CHECKED BY DATE  
NOTE BOOK NO. OF WAY CHECKED  
F.A.U. FILE NO.

PROFILE SURVEYED BY DATE  
DRAWN BY DATE  
CHECKED BY DATE  
NOTE BOOK NO. OF WAY CHECKED  
F.A.U. FILE NO.



DESIGNED - OJT  
DRAWN - OJT  
CHECKED - JJE  
DATE - 03/24/2014

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



TRAFFIC SIGNAL CABLE PLAN

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	34

CONTRACT NO. 61A40  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

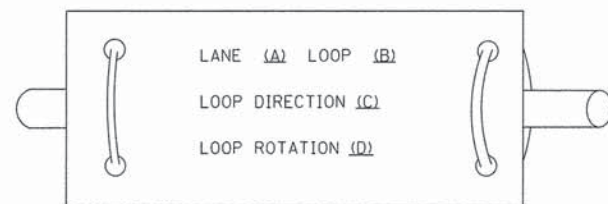
# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED												
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE															
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE															
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA															
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED															
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F															
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F															
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE															
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED															
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED															
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED															
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR															
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR															
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR															
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">EXISTING</th> <th style="width: 50%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED										
EXISTING	PROPOSED																						
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																			
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																			
DETECTOR LOOP, TYPE I				RADIO REPEATER																			
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																			
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																			
VIDEO DETECTION CAMERA																							
VIDEO DETECTION ZONE																							
PAN, TILT, ZOOM CAMERA																							
WIRELESS DETECTOR SENSOR																							
WIRELESS ACCESS POINT																							

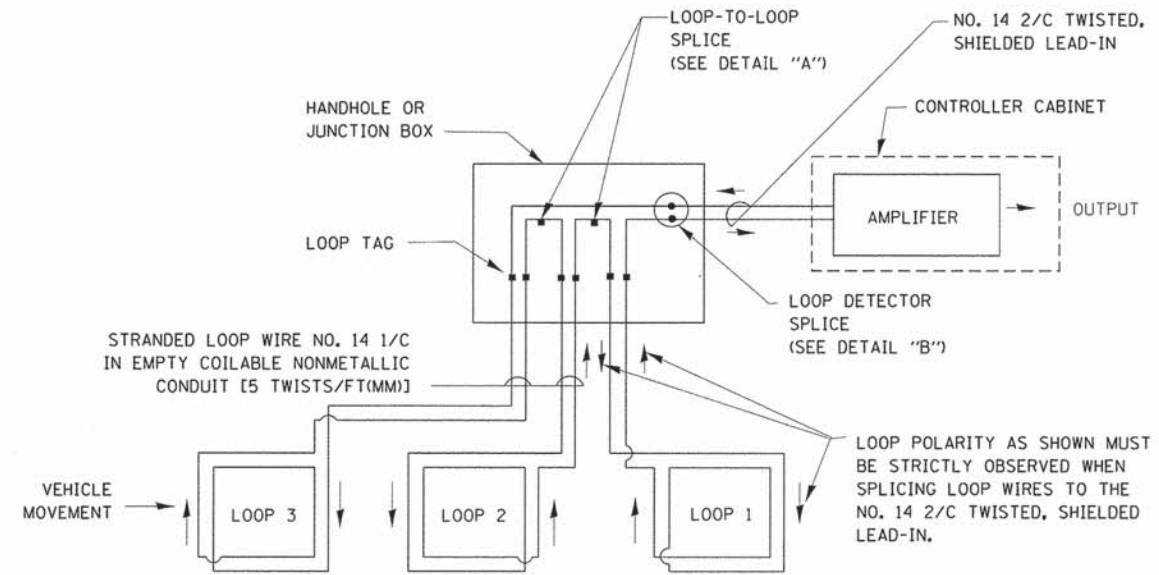
**LOOP DETECTOR NOTES**

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

**LOOP LEAD-IN CABLE TAG**

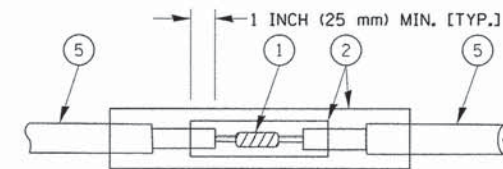


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

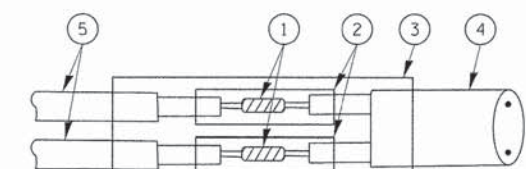


**DETECTOR LOOP WIRING SCHEMATIC**

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

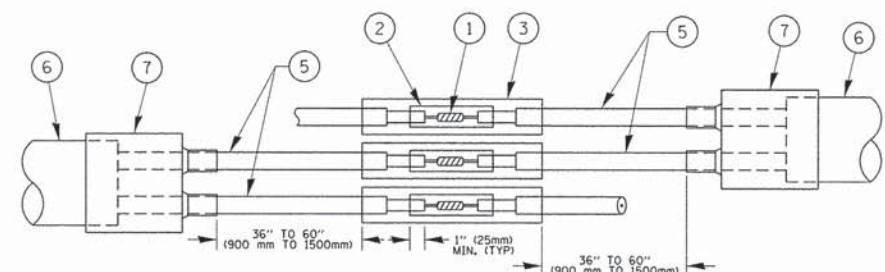


DETAIL "A"  
LOOP-TO-LOOP SPLICE

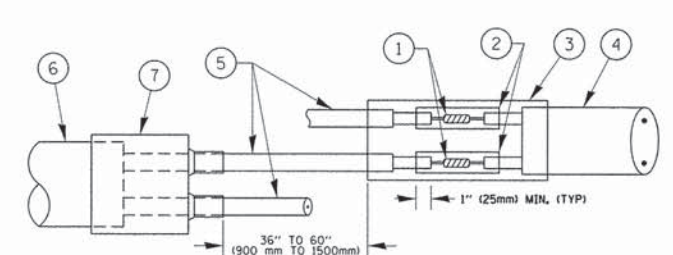


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

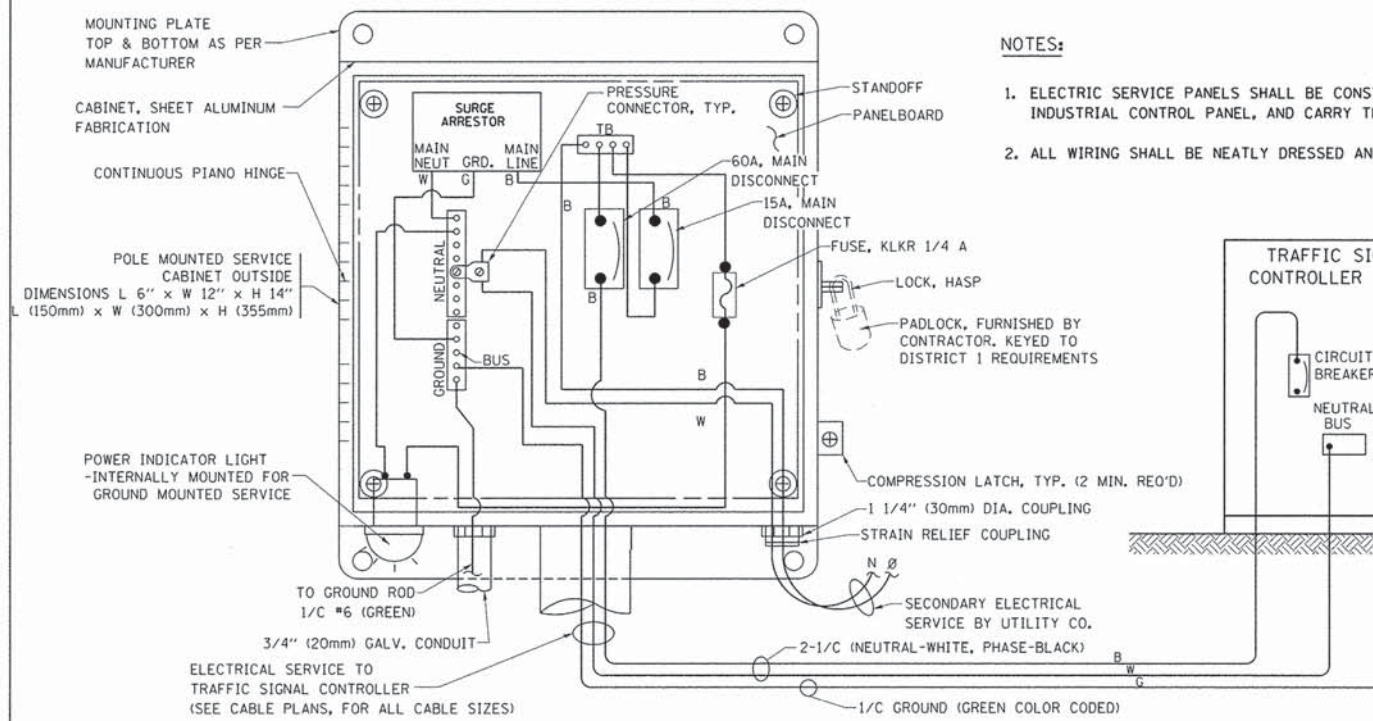
**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

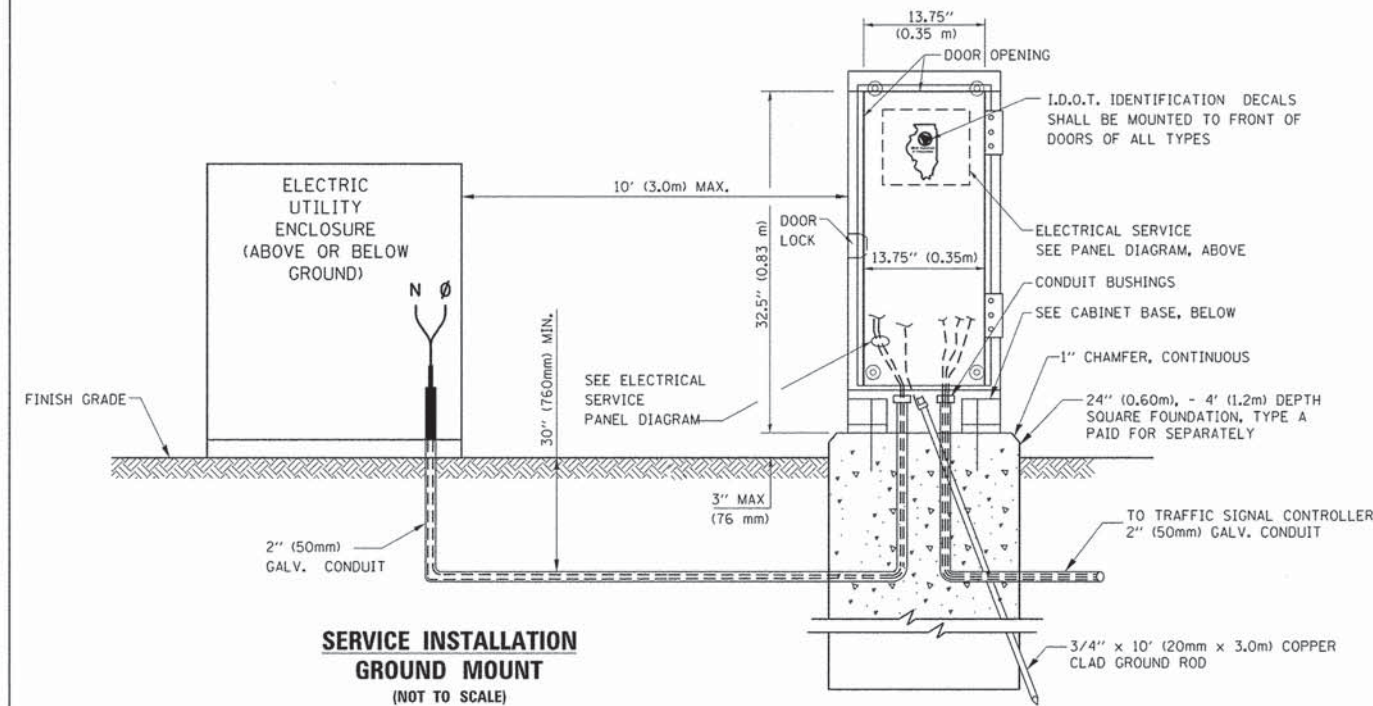
- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER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

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>		F.A. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 36
CONTRACT NO. 61A40	SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.		<b>TS-05</b>		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLOT SCALE = 50,0000' / in.	CHECKED - DAD	REVISIED -	REVISIED -		<b>CONTRACT NO. 61A40</b>						
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISIED -	REVISIED -		<b>CONTRACT NO. 61A40</b>						



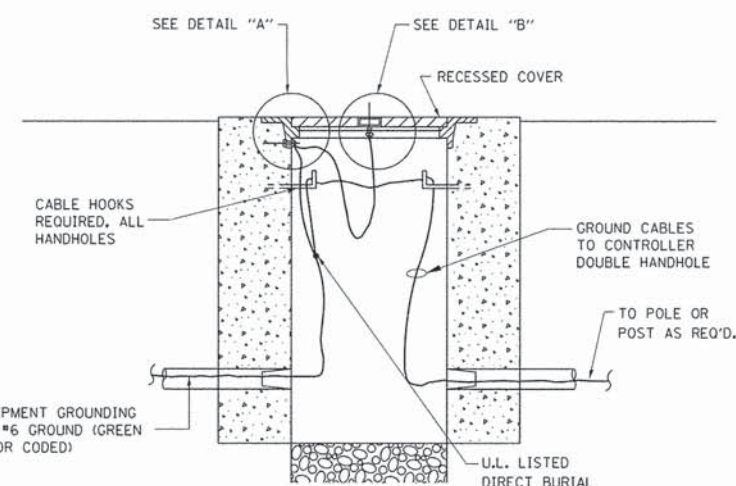
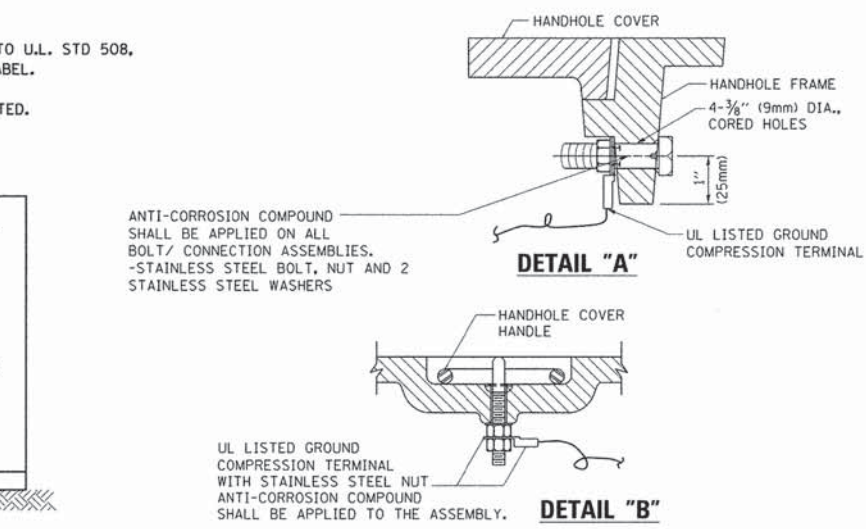
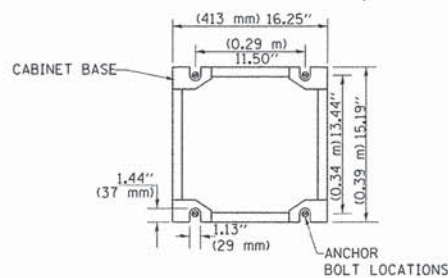


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**

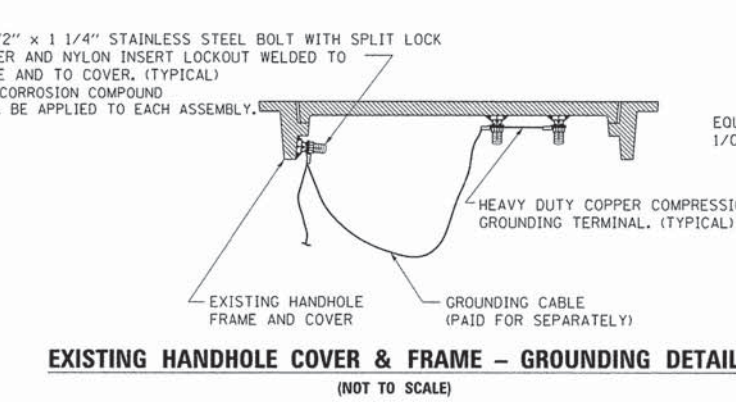


**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**

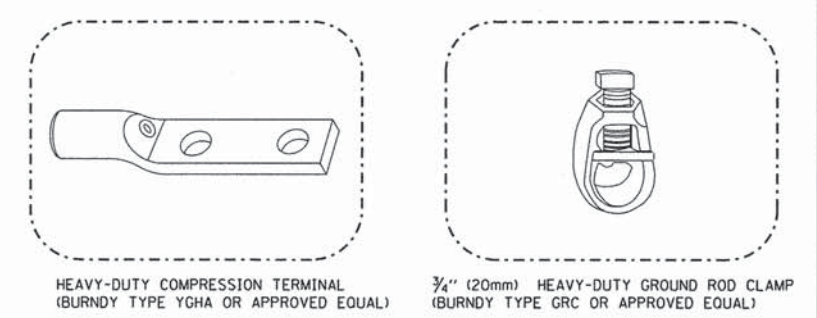
**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**



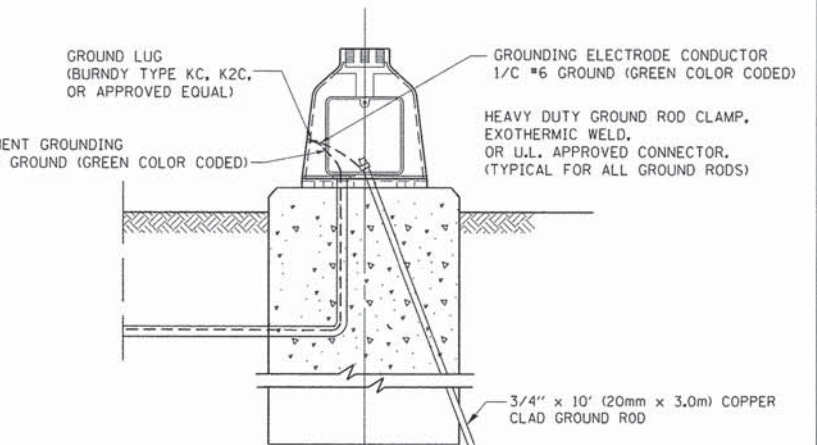
**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**



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



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



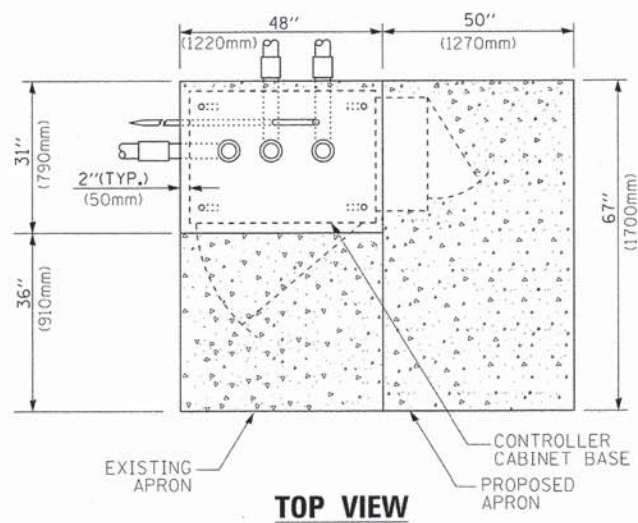
**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**

FILE NAME =	USER NAME = footamj	DESIGNED - DAD	REVISED - DAG 1-1-14
62:\pw_work\pwsdot\footamj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 58.0000' / in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

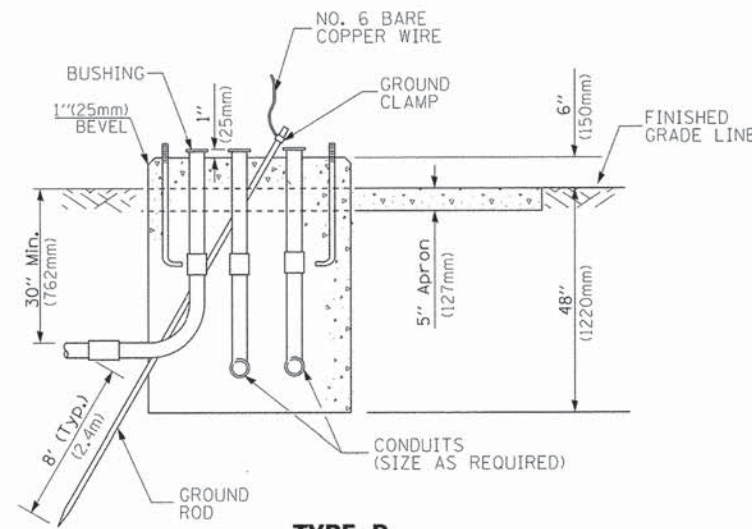
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>	
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

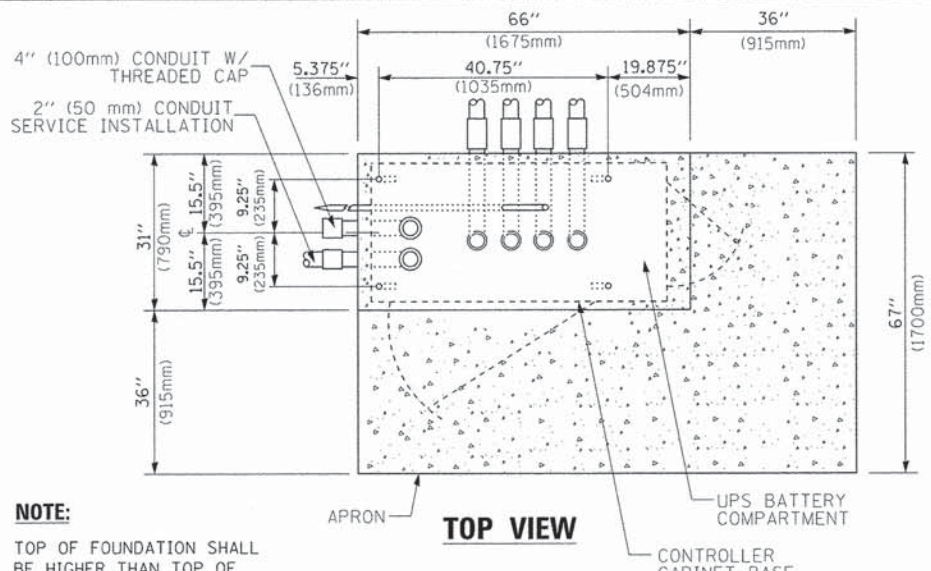
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	38
<b>TS-05</b>		CONTRACT NO.	61A40	
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



**TOP VIEW**

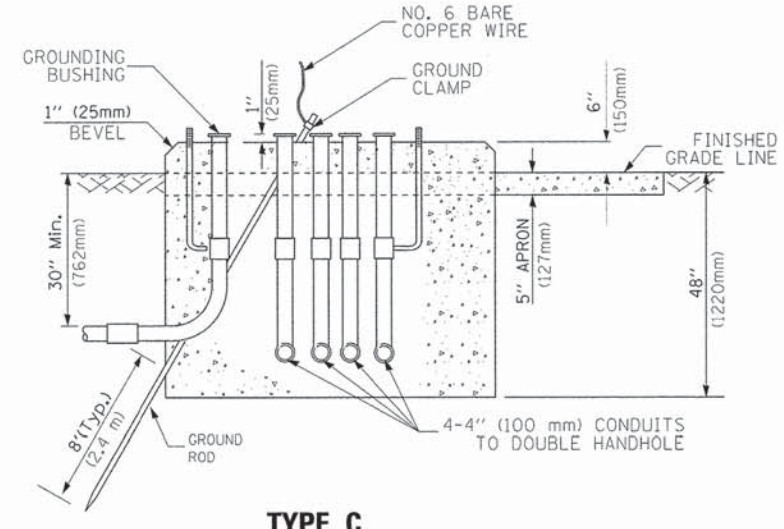


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

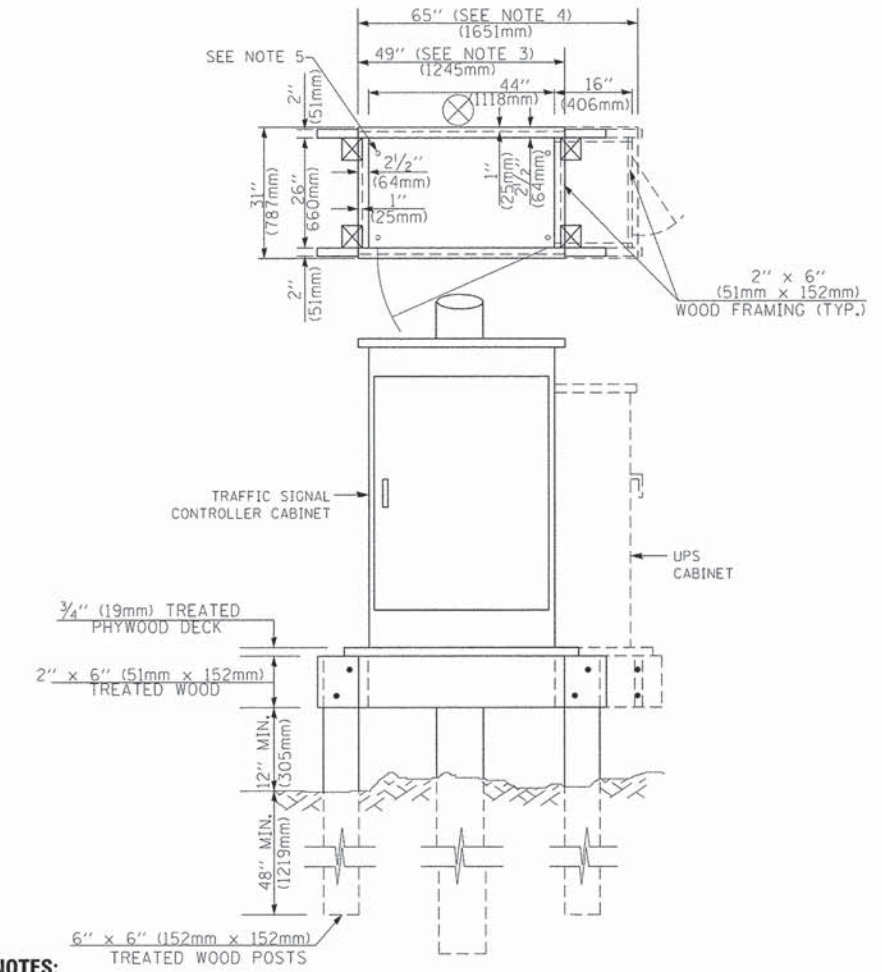


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



**NOTES:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

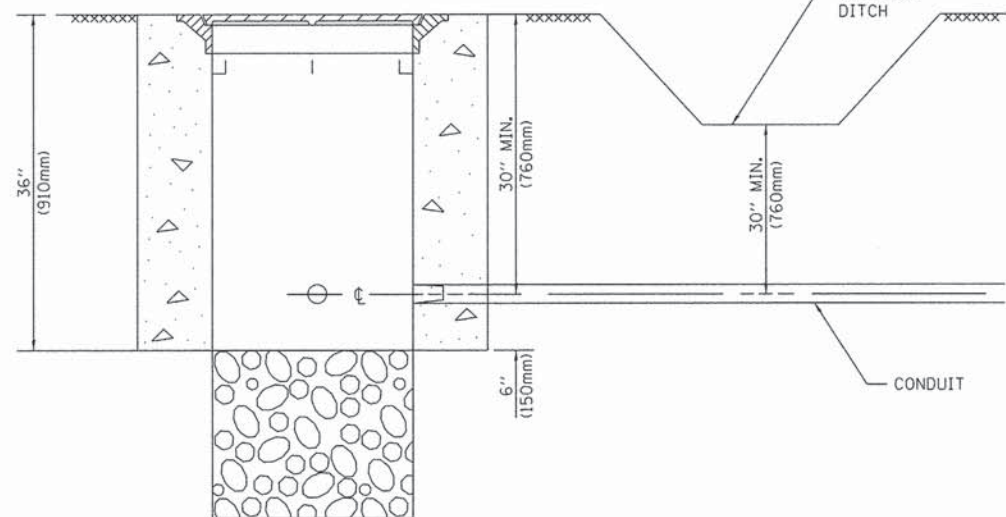
**DEPTH OF FOUNDATION**

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

**NOTES:**

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

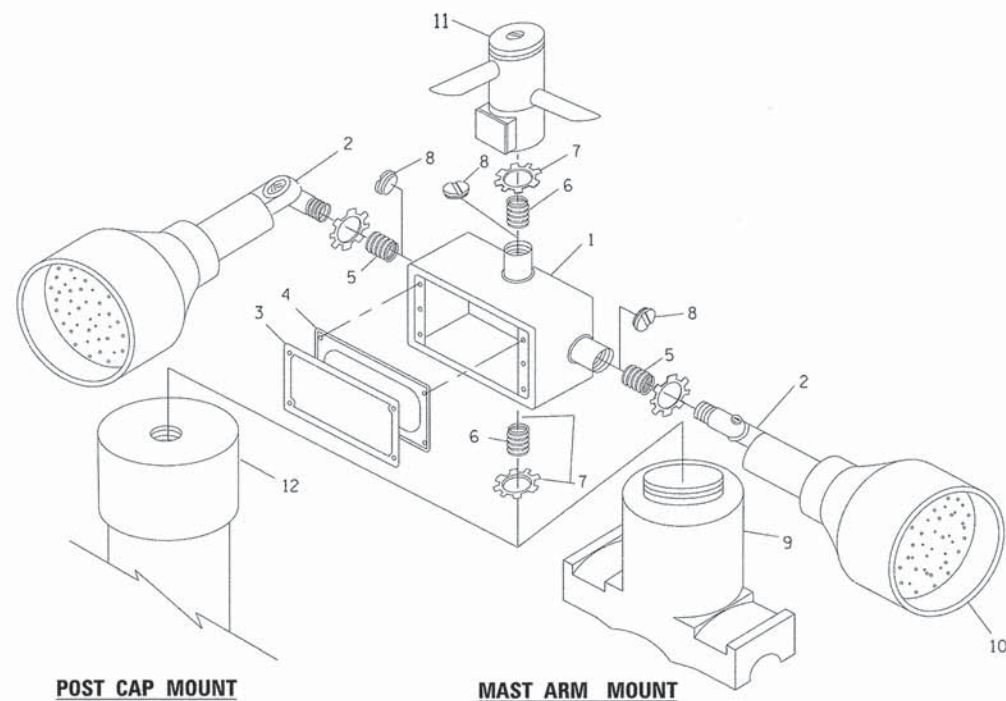
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



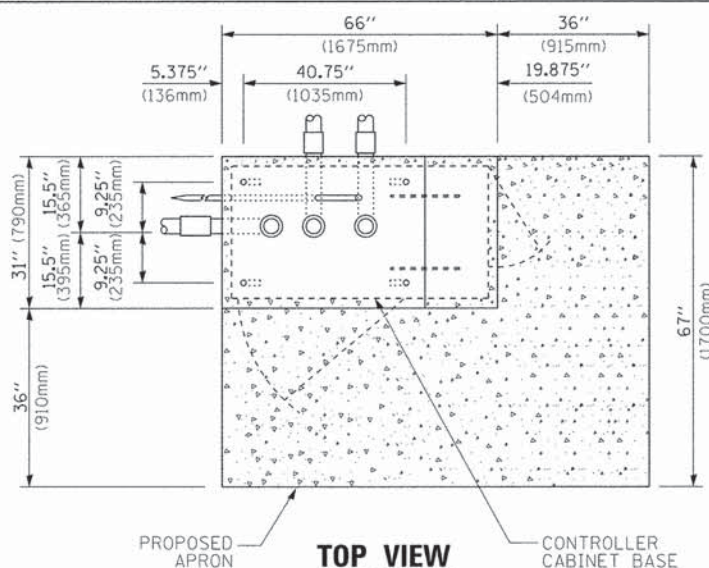
**NOTES:**

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

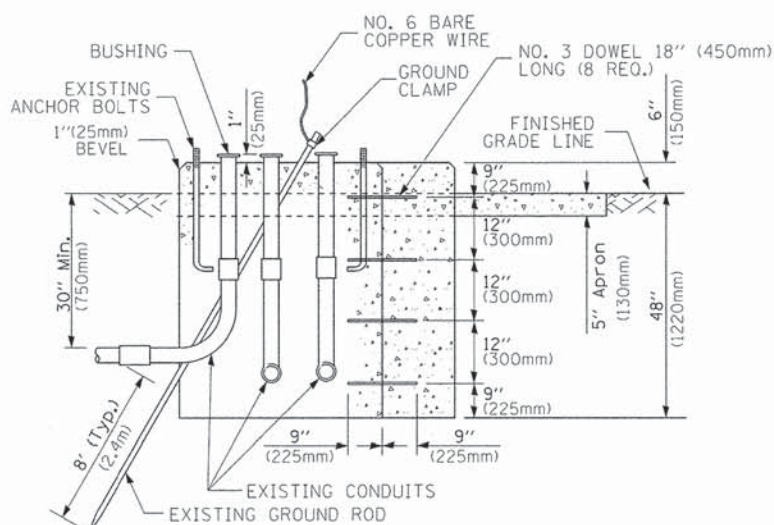
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

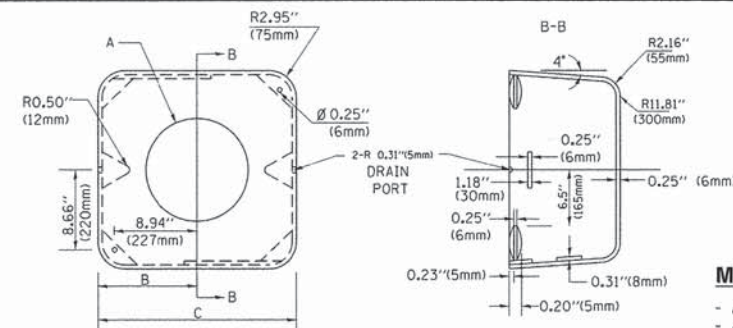


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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

**NOTES:**

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**

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

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

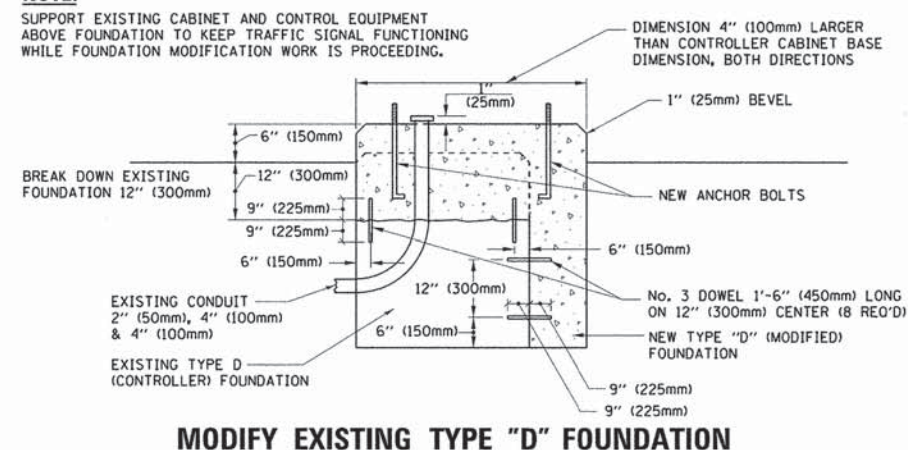
**SHROUD**

**NOTES:**

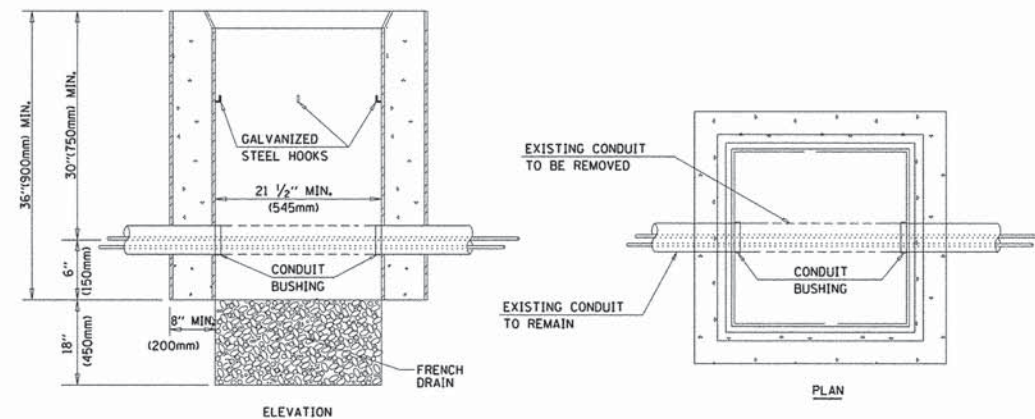
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

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



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

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

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

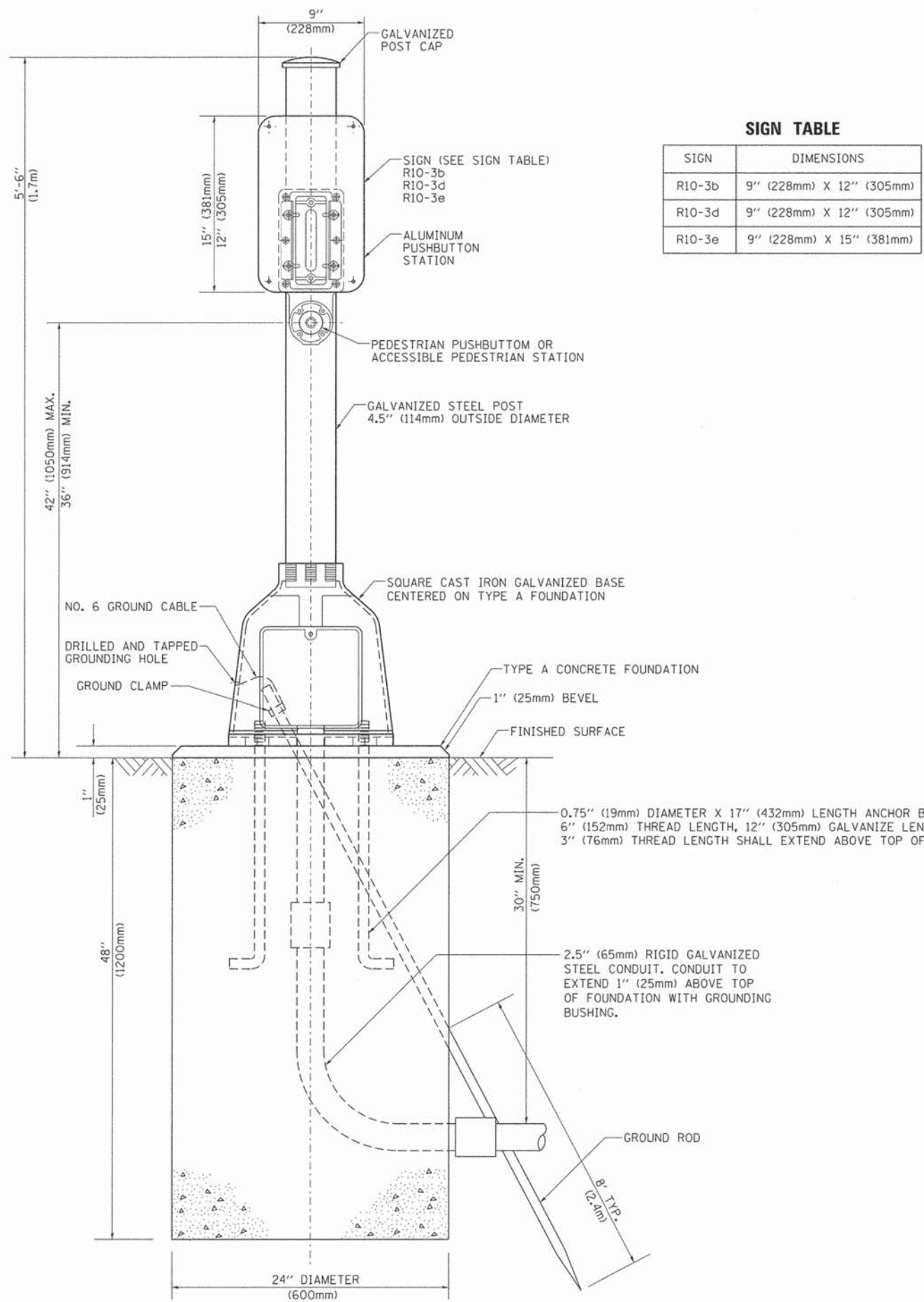
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

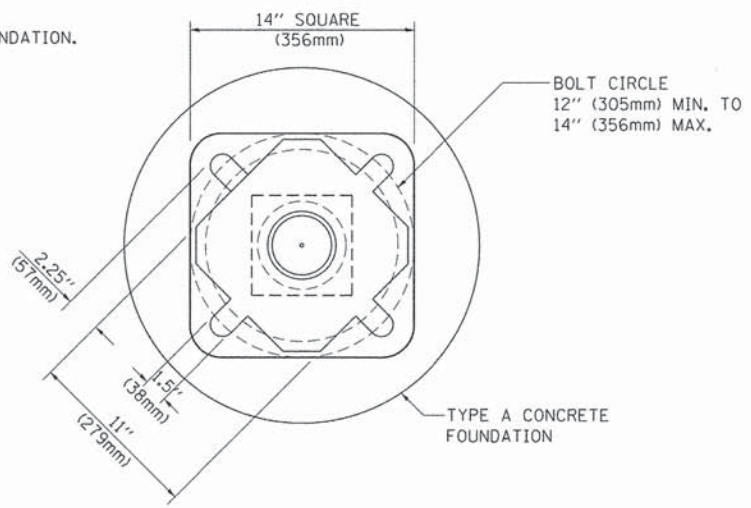
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			TS-05		CONTRACT NO. 61A40	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	





**SIGN TABLE**

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



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

Benchmark (TBM #2): Railroad spike in power pole west of Lancer Rd, South of Washington St.  
Sta. 517+32.44, Offset 9.17' Rt. elev. 774.62

Existing Structure: 120'-0" Cast-in-place cantilever T-wall on spread footings

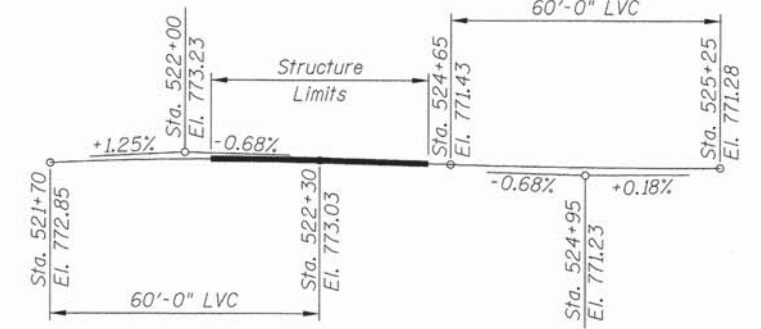
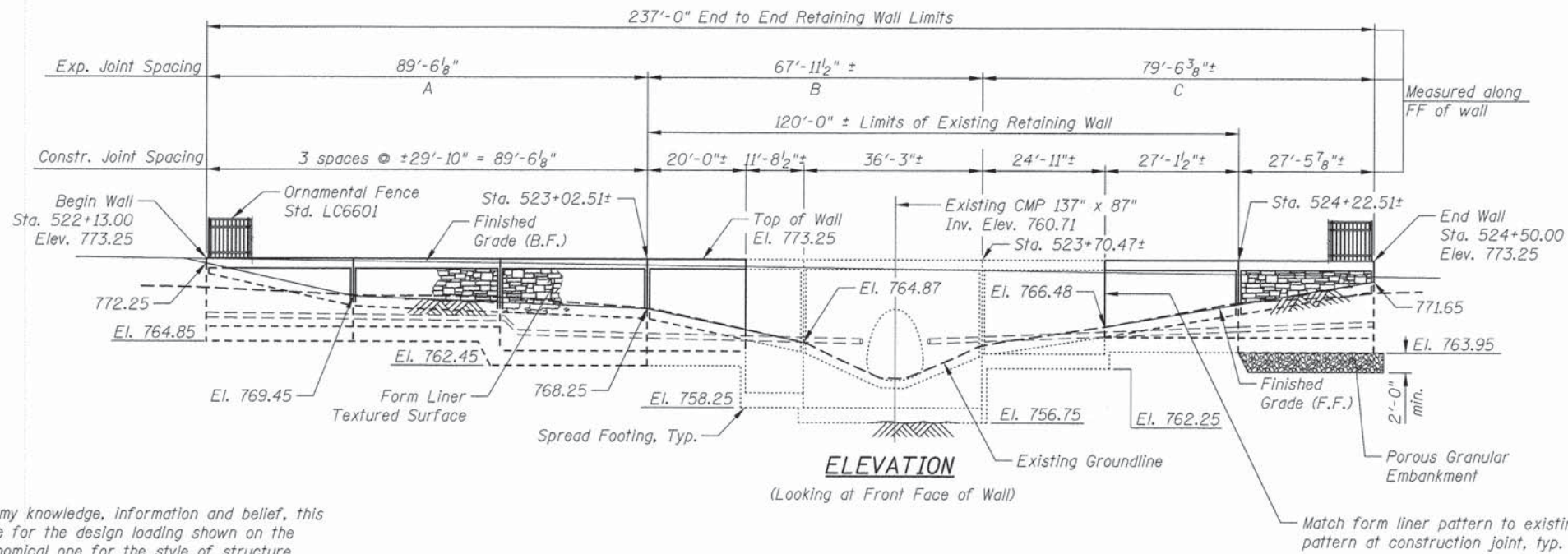
CIVILTECH ENGINEERING, INC.  
GREGORY J. HATLESTAD, S.E.



GREGORY J. HATLESTAD, S.E.  
# 081-005562

EXP 11/30/2016  
DATE 3/24/2014

I certify that to the best of my knowledge, information and belief, this 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 requirements of the current AASHTO Standard Specifications for Highway Bridges.



**DESIGN LOADING**  
Equivalent Fluid Pressure for Lateral Pressure = 40 pcf  
Design Live Load Surcharge = 2 feet

**CURVE DATA**  
(along C of Bike Path)  
Δ = 28° 01' 24.61" (Rt)  
D = 57'  
T = 24.95'  
L = 48.91'  
E = 3.07'  
R = 100'  
P.C. = Sta. 524+53.11  
P.T. = Sta. 525+02.02  
P.I. = Sta. 524+78.07

**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

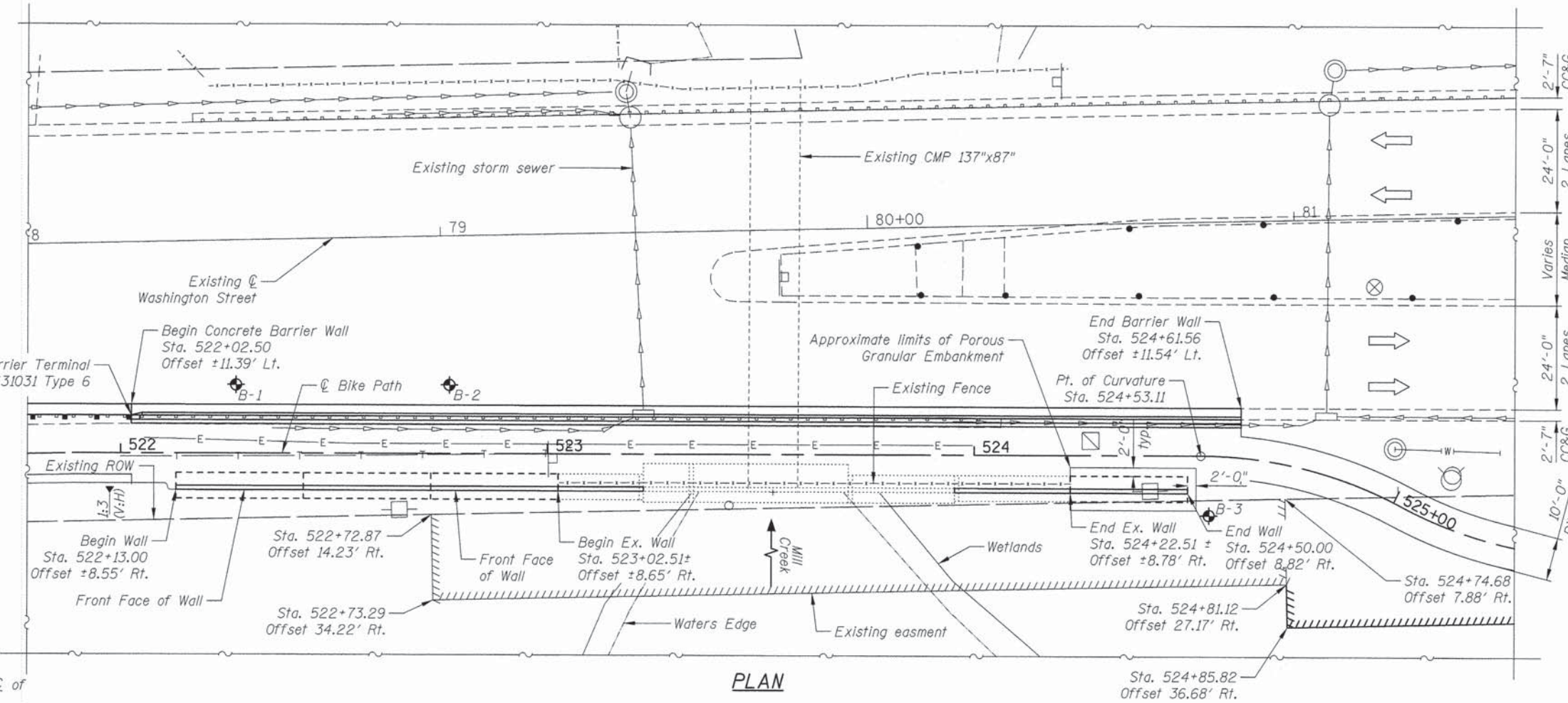
**DESIGN STRESSES**

**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**EXISTING UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)



**GENERAL PLAN & ELEVATION**  
**WALL A: WASHINGTON STREET**  
**LAKE COUNTY**  
**STA. 522+13 TO STA 524+50**



**LEGEND**

- Creek Flow
- ⊙ Soil Borings
- Electric
- Ex. storm sewer
- Ex. Water main

Notes:  
1. Offsets are measured from C of Bike path to front face of wall

CIVILTECH  
450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DRAWN	- M. LANGE	REVISED	-
DESIGNED	- M. LANGE	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- MARCH 24, 2014	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
WALL A, WASHINGTON STREET

SHEET NO. S1 OF S9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	42
CONTRACT NO. 61A40			ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

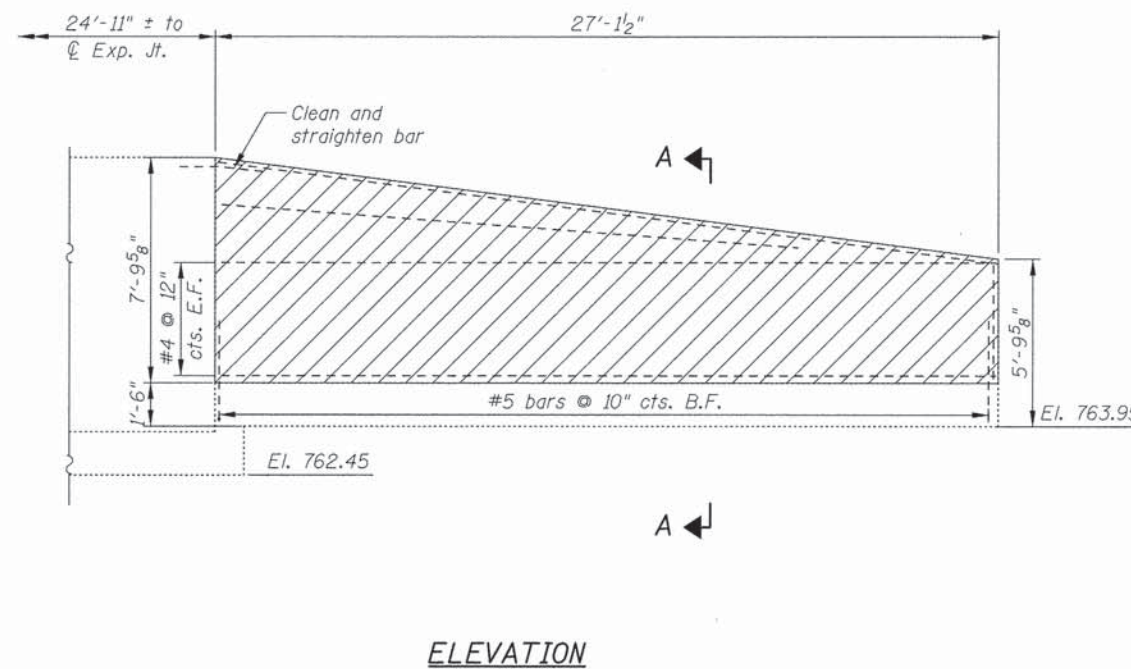
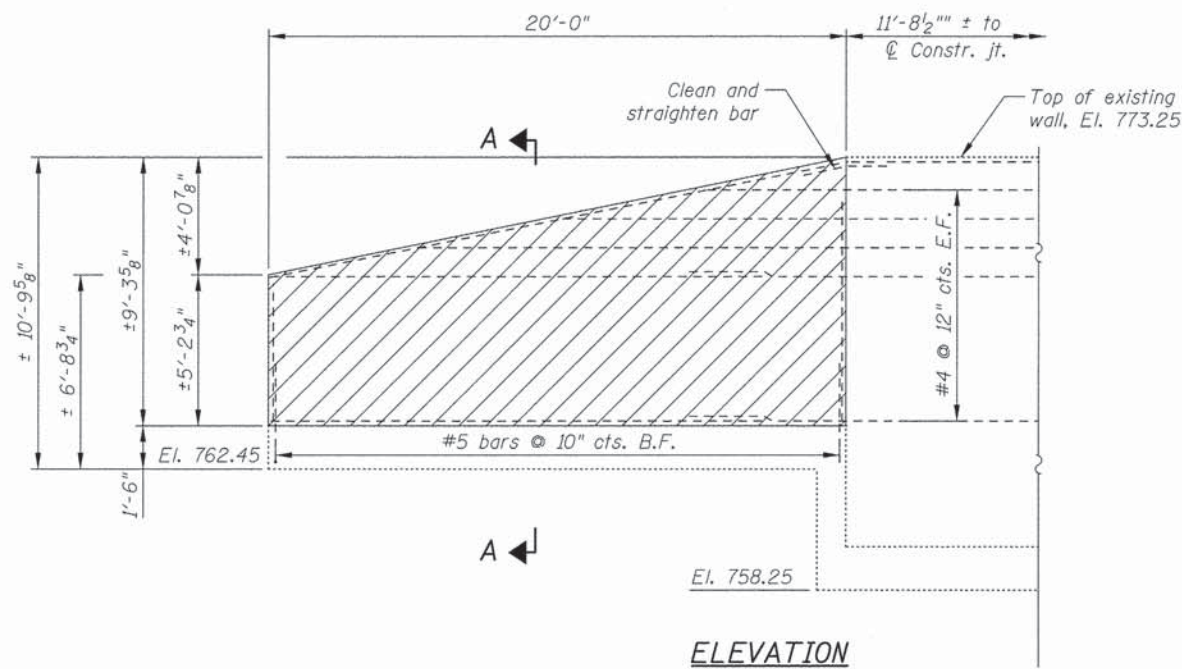
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**INDEX OF SHEETS**

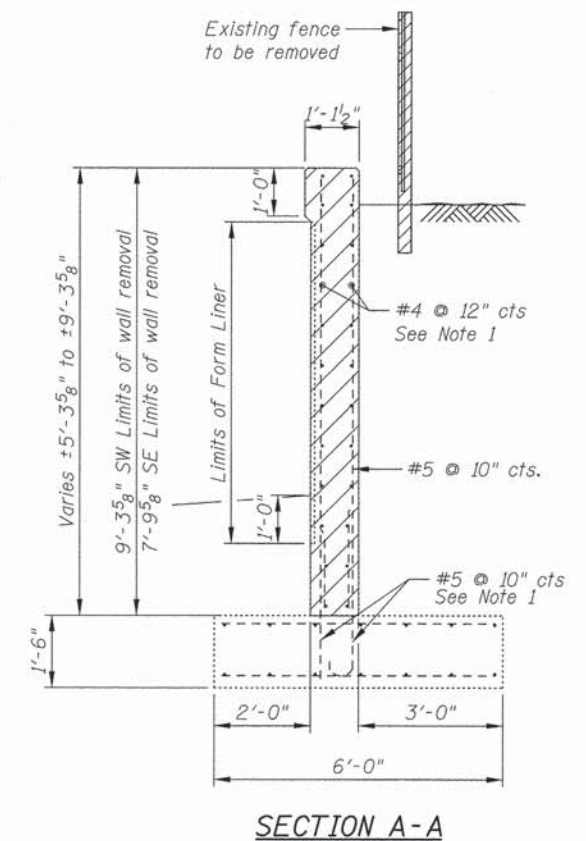
- S1 General Plan & Elevation
- S2 General Data
- S3 Retaining Wall I
- S4 Retaining Wall II
- S5 Retaining Wall III
- S6 Retaining Wall Details
- S7 Concrete Barrier Wall, Special
- S8 Parapet Railing Details
- S9 Boring Logs

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	75
Concrete Removal	Cu. Yd.	11.5
Structure Excavation	Cu. Yd.	333
Concrete Structures	Cu. Yd.	89.9
Protective Coat	Sq. Yd.	172
Reinforcement Bars Epoxy Coated	Pound	8,050
Parapet Railing	Foot	260
Geocomposite Wall Drain	Sq. Yd.	109
Concrete Barrier Wall (Special)	Foot	260
Ornamental Fence	Foot	237
Staining Concrete Structures	Sq. Yd.	139
Form Liner Textured Surface, Special	Sq. Ft.	672
Fence Removal	Foot	120
Pipe Underdrains for Structures 6"	Foot	118



Note:  
 1. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal. Provide a min. lap of 2'-7 for #4 Horizontal bar. Provide full length of dowel bars into footing.



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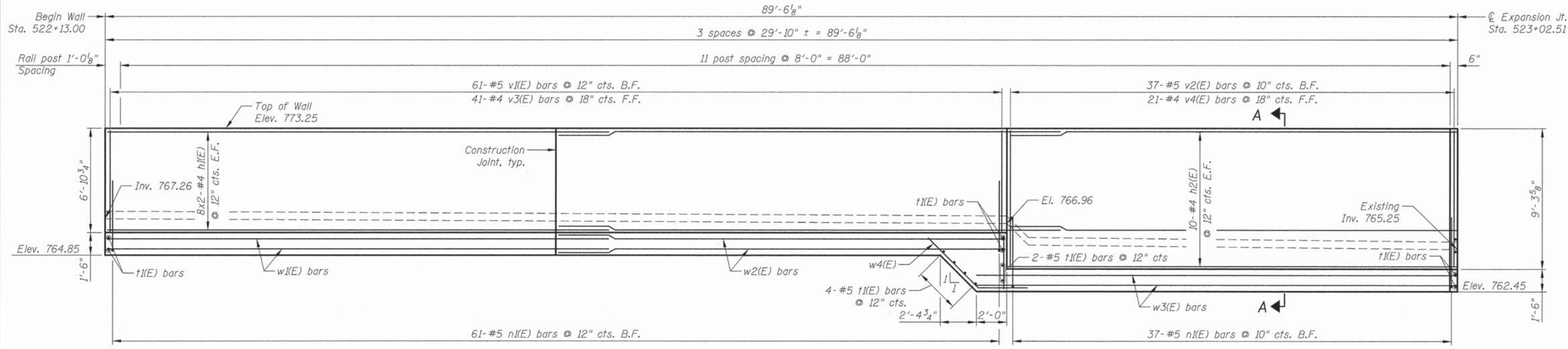
DRAWN	- M. LANGE	REVISED	-
DESIGNED	- M. LANGE	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- MARCH 24, 2014	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

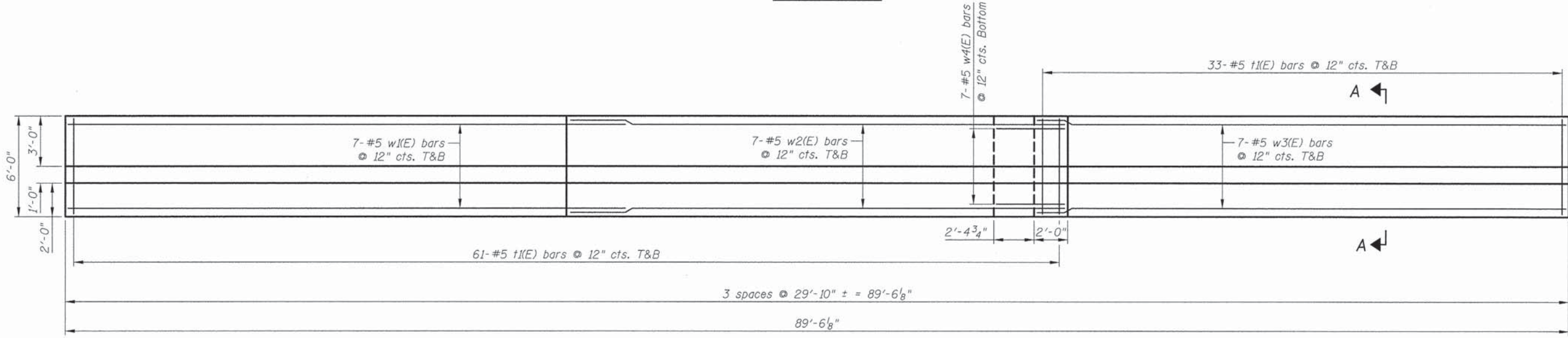
**GENERAL DATA  
 WALL A, WASHINGTON STREET**

SHEET NO. 52 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	43
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				



ELEVATION A



PLAN A



MINIMUM BAR LAP

Bar Size	Class C
#4	2'-7"
#5	3'-3"

Notes:  
 1. See Sheet S6 for Wingwalls Details, Bill of Material, Sections A-A thru D-D.

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DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

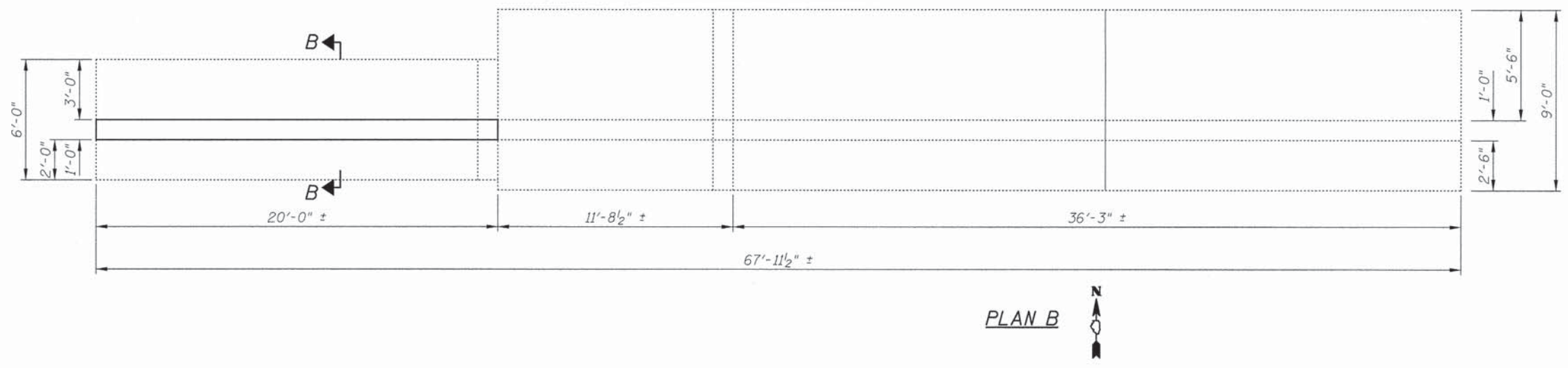
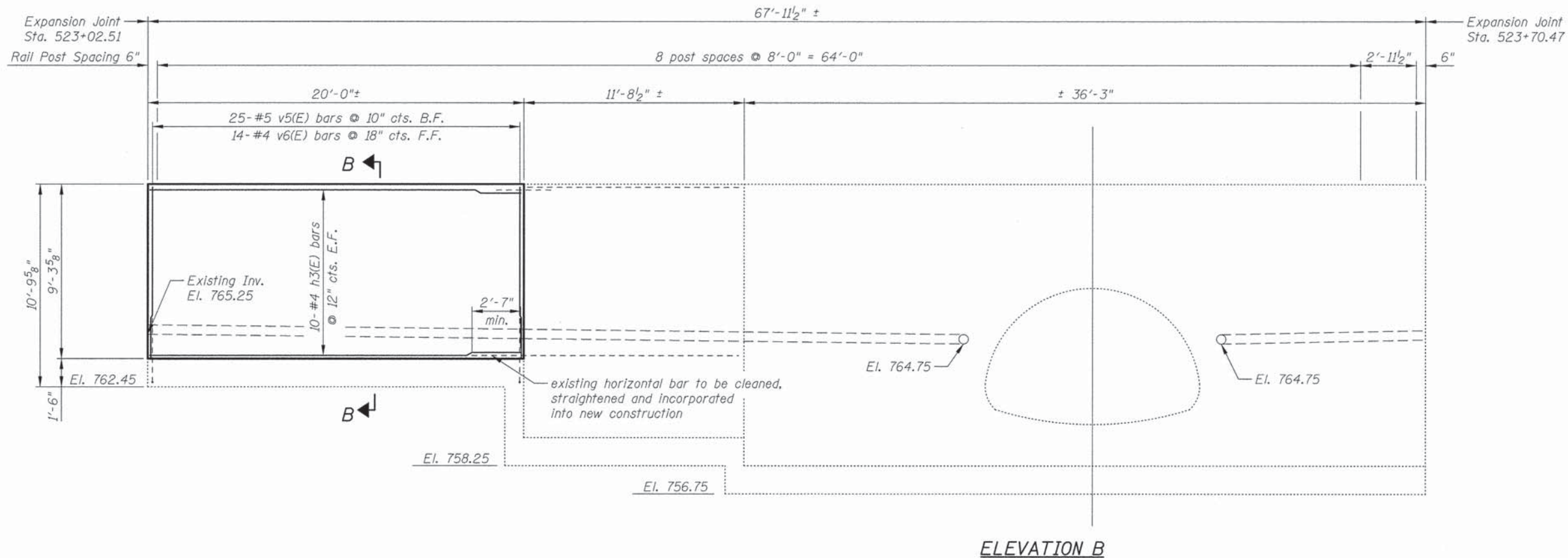
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL I  
 WALL A, WASHINGTON STREET

SHEET NO. 53 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	44
CONTRACT NO. 61A40				

ILLINOIS FED. AID PROJECT



PLAN B  
N

**MINIMUM BAR LAP**

Bar Size	Class C
#4	2'-7"
#5	3'-3"

- Notes:
- See Sheet S6 for Wingwall details, Bill of Material, Sections A-A thru and D-D.
  - Existing dimensions shall be field verified prior to ordering ornamental fence.

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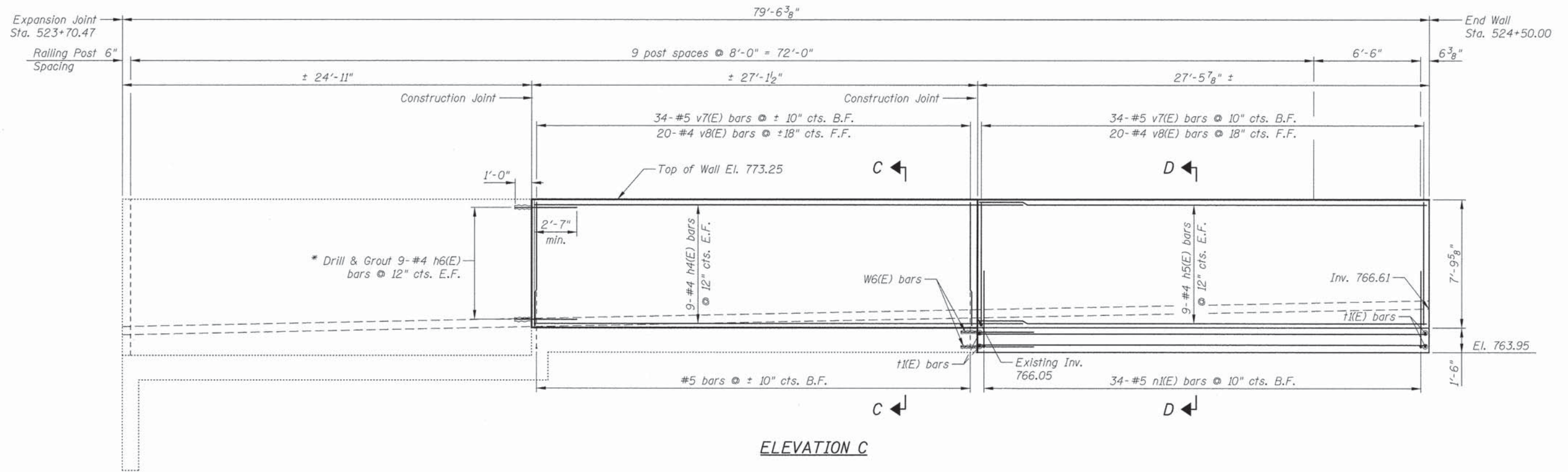
DRAWN - M. LANGE	REVISED -
DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL II  
WALL A, WASHINGTON STREET**

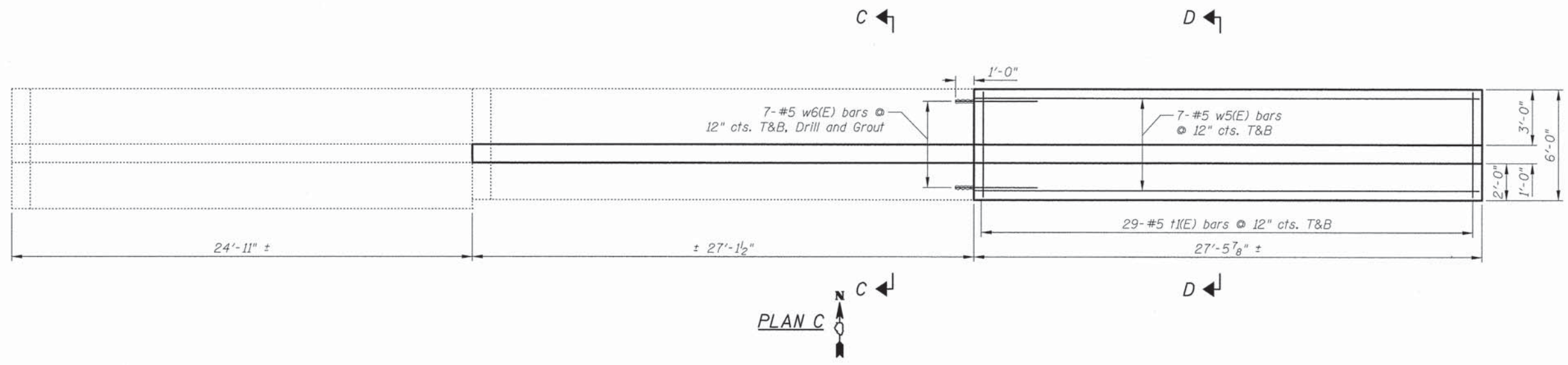
SHEET NO. 54 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	45
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				



ELEVATION C

Notes:  
 \* Drill and Grout h6(E) bars only if the existing horizontal bars do not extend into the new wall.



PLAN C

MINIMUM BAR LAP

Bar Size	Class C
#4	2'-7"
#5	3'-3"

- Notes:
- See Sheet S6 for Wingwall Details, Bill of Material, Sections A-A thru D-D.
  - Existing dimensions shall be field verified prior to ordering ornamental fence.

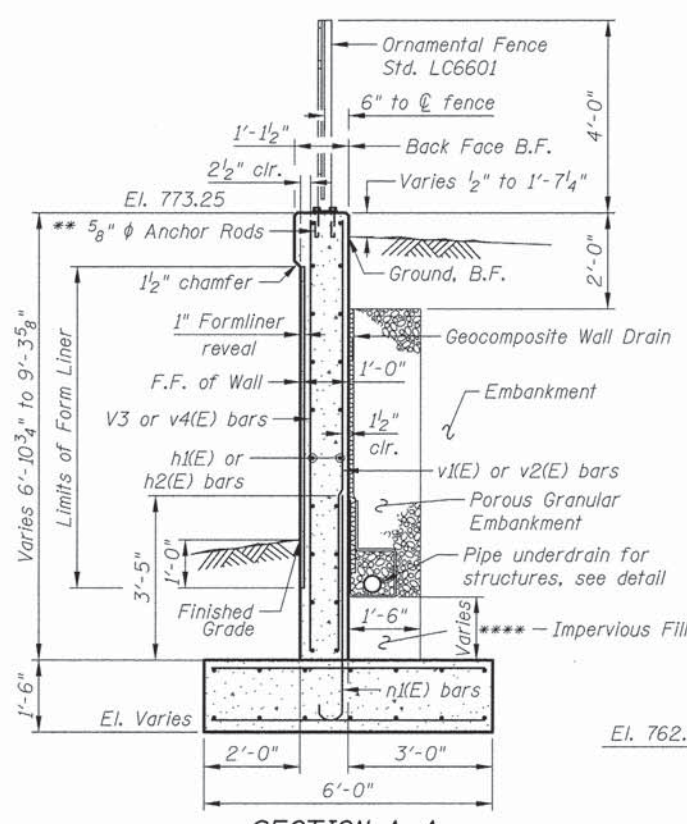
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**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	32	#4	32'-5"	
h2(E)	20	#4	29'-6"	
h3(E)	20	#4	19'-8"	
h4(E)	18	#4	7'-6"	
h5(E)	18	#4	27'-2"	
h6(E)	18	#4	3'-9"	
n1(E)	132	#5	5'-3"	
t1(E)	252	#5	5'-8"	
v1(E)	61	#5	6'-7"	
v2(E)	37	#5	9'-0"	
v3(E)	41	#4	6'-7"	
v4(E)	21	#4	9'-0"	
v5(E)	25	#5	9'-0"	
v6(E)	14	#4	9'-0"	
v7(E)	68	#5	7'-6"	
v8(E)	40	#4	7'-6"	
w1(E)	14	#5	33'-1"	
w2(E)	14	#5	29'-6"	
w3(E)	14	#5	31'-6"	
w4(E)	7	#5	7'-11"	
w5(E)	14	#5	27'-2"	
w6(E)	14	#5	4'-5"	

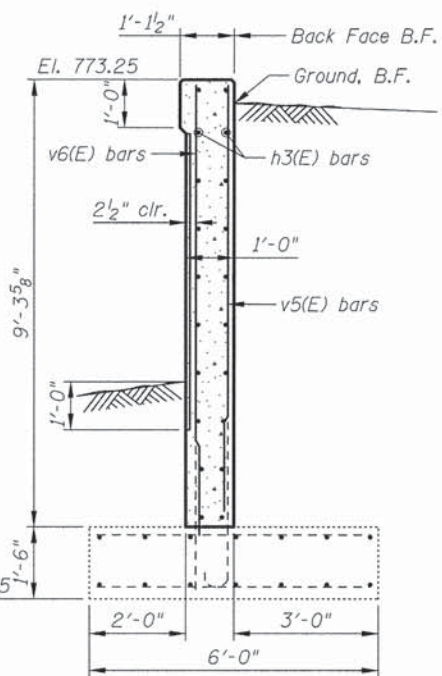
Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	75
Structure Excavation	Cu. Yd.	333
Concrete Structures	Cu. Yd.	89.9
Reinforcement Bars, Epoxy Coated	Pound	8,050
Geocomposite Wall Drain	Sq. Yd.	109
Ornamental Fence	Foot	237
Staining Concrete Structures	Sq. Yd.	139
Form Liner Textured Surface, Special	Sq. Ft.	672
Pipe Underdrains for Structures 6"	Foot	118

See Sheet S3 for Section A-A; Sheet S4 for Section B-B; and Sheet S5 for Section C-C and Section D-D.



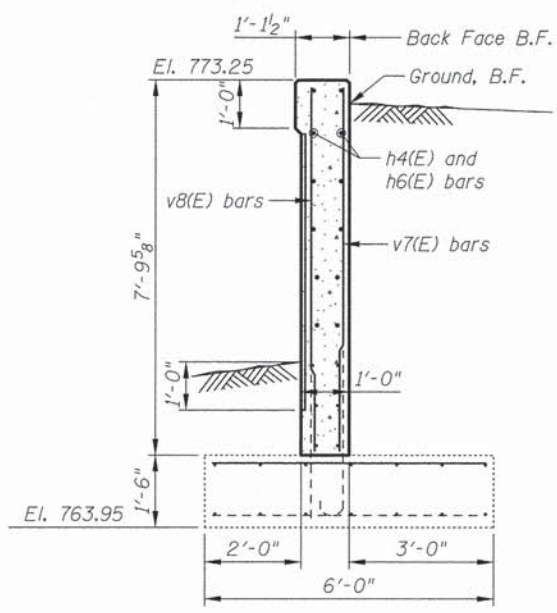
**SECTION A-A**

Maximum Applied Bearing Pressure = 3,173 psf  
 Maximum Allowed Bearing Pressure = 4,000 psf  
 \*\*\*\* See wall elevations for pipe underdrain locations  
 \*\* Drill and set 5/8" φ anchor rods according to Article 509.06 of Standards Specifications. Embedment shall be according to the Manufacturer's specifications.



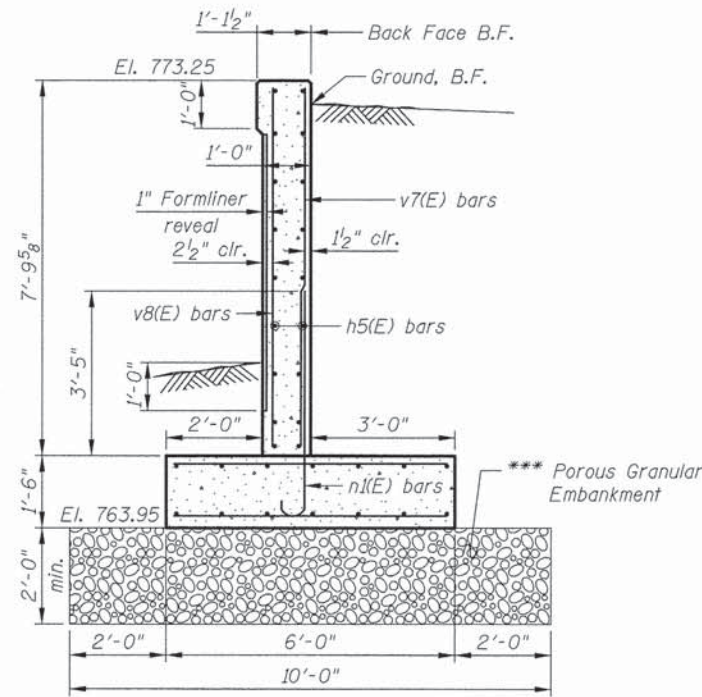
**SECTION B-B**

See Section A-A for balance of information  
 Maximum Applied Bearing Pressure = 3,173 psf  
 Maximum Allowed Bearing Pressure = 4,000 psf



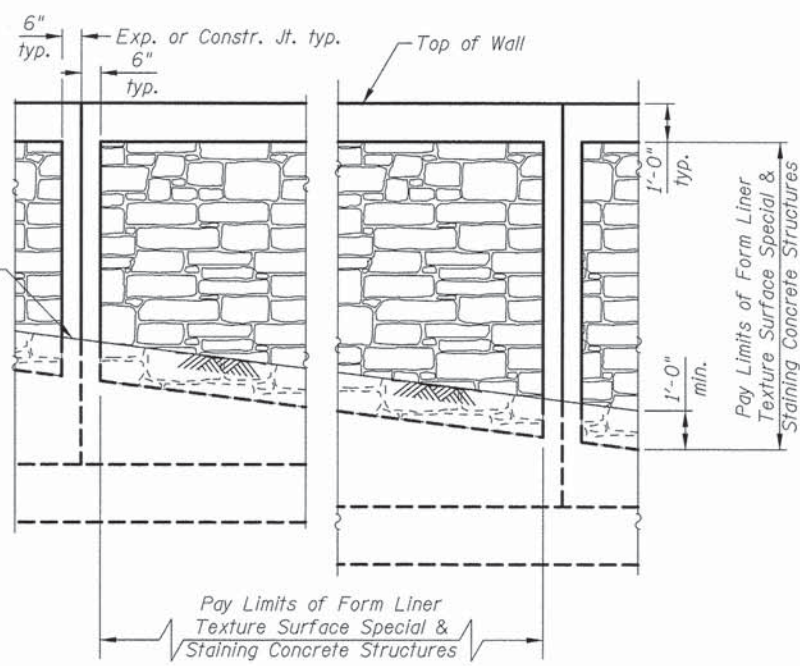
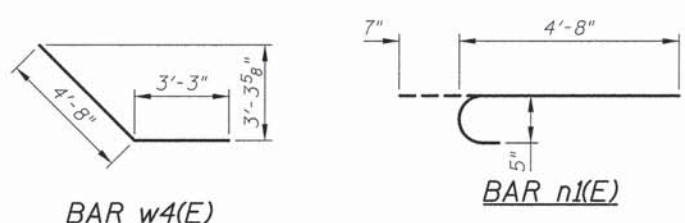
**SECTION C-C**

See Section A-A for balance of information  
 Maximum Applied Bearing Pressure = 2,333 psf  
 Maximum Allowed Bearing Pressure = 3,500 psf



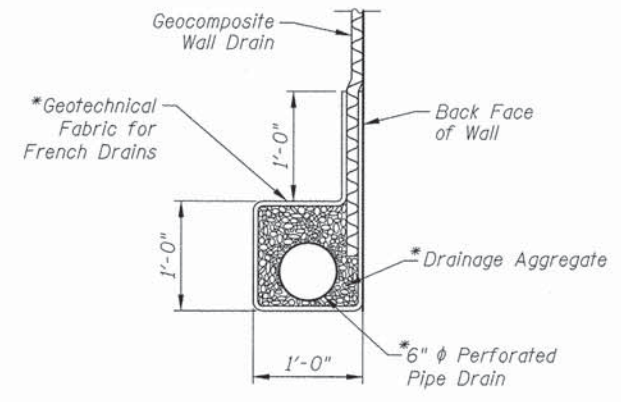
**SECTION D-D**

See Section A-A for balance of information  
 Maximum Applied Bearing Pressure = 2,333 psf  
 Maximum Allowed Bearing Pressure = 3,500 psf  
 \*\*\* Undercut of soil below footing is included in the cost of Structure Excavation



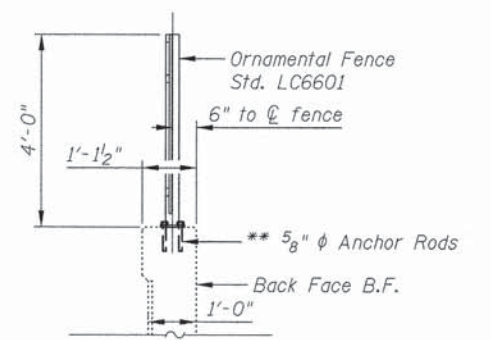
**FORM LINER TEXTURE SURFACE DETAIL**

At existing CMP location, Staining Concrete Structures limits are to the top of water line.



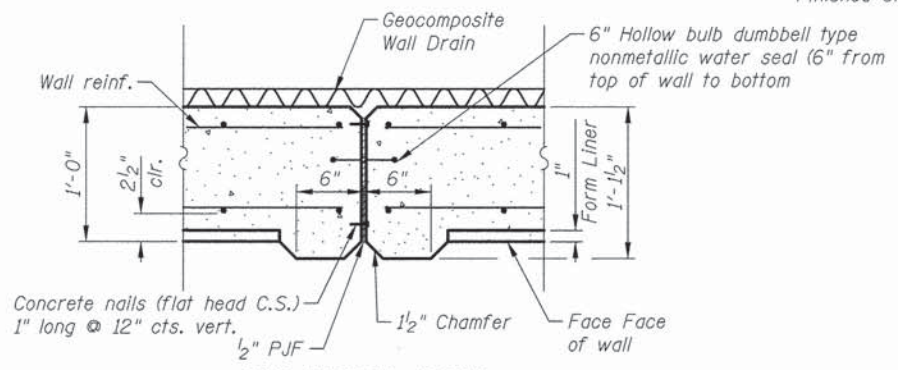
**PIPE UNDERDRAIN DETAIL**

\* Included in the cost of Pipe Underdrains for Structures, 6"



**FENCE DETAIL**

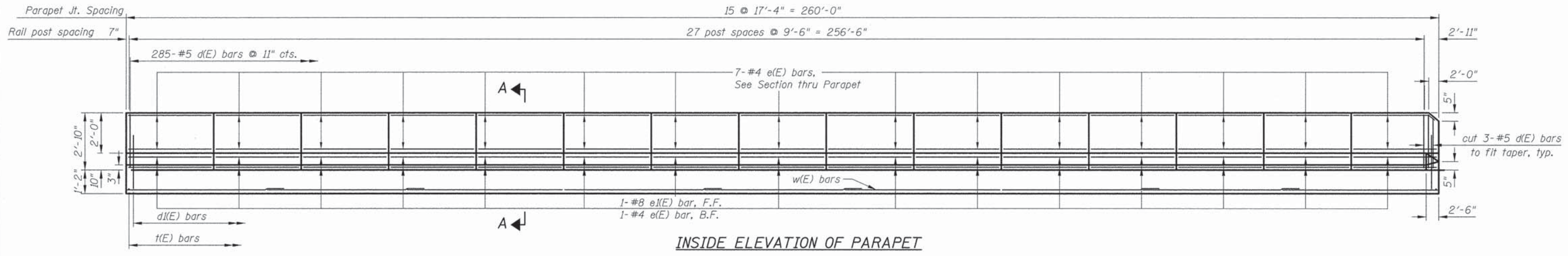
\*\* Drill and set 5/8" φ anchor rods according to Article 509.06 of Standards Specifications. Embedment shall be according to the Manufacturer's specifications.



**EXPANSION JOINT**

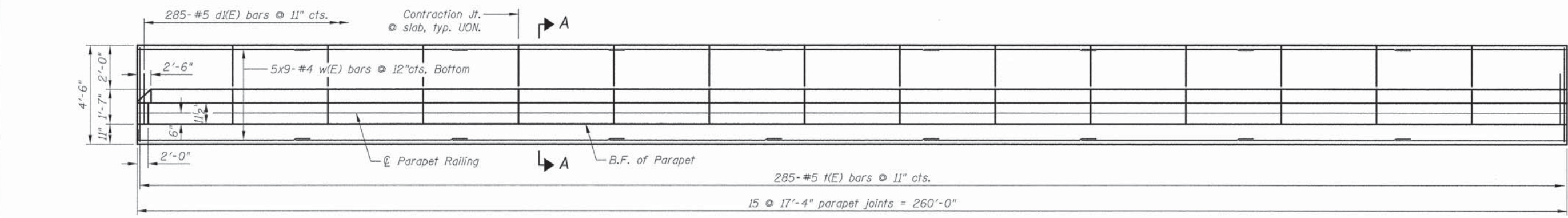
Dimensions, coping, chamfers and form liner is to match the existing condition. All items need to be field verified prior to construction.

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**INSIDE ELEVATION OF PARAPET**

**MINIMUM BAR LAP**  
 (Parapet)  
 #4 bar = 2'-0"  
 #8 bar = 5'-2"  
 (Slab)  
 #4 bar = 2'-7"



**PLAN**

**INFORMATION ONLY**

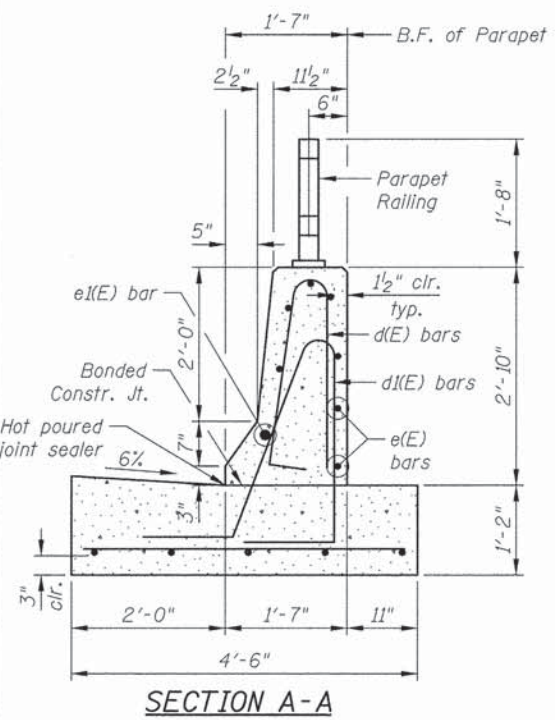
Bar	No.	Size	Length	Shape
d(E)	285	#5	5'-7"	
d(E)	285	#5	7'-11"	
e(E)	120	#4	17'-0"	—
e(E)	15	#8	17'-0"	—
t(E)	285	#5	4'-2"	—
w(E)	45	#4	31'-2"	—
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	83.2	
Reinforcement bars, Epoxy coated		Pound	8,240	

Bars indicated thus 1 x 3-#8 etc. Indicates 1 line of bars with 3 lengths per line.

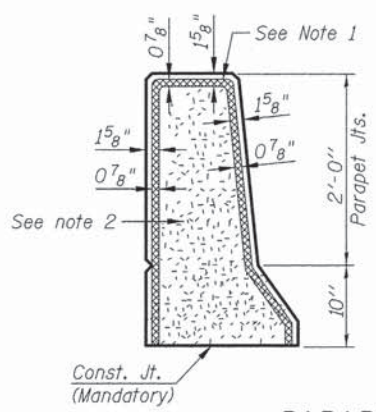
**BILL OF MATERIAL**

Item	Unit	Quantity
Protective Coat	Sq. Yd.	172
Concrete Barrier, Special	Foot	260

Reinforcement and concrete structures is for information only. The cost is included in Concrete Barrier Wall, Special

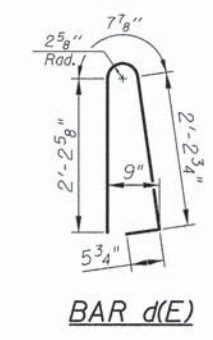
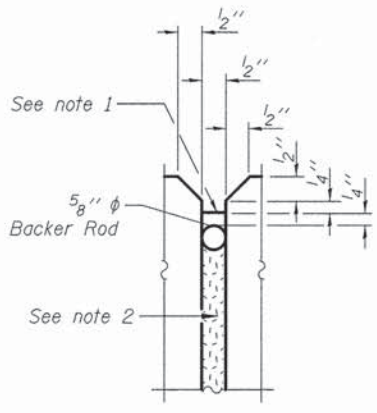


**SECTION A-A**

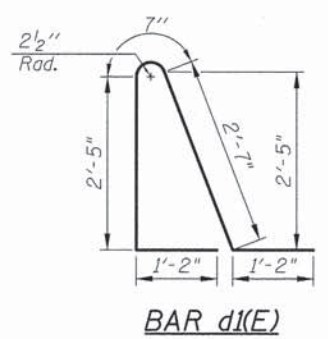


**PARAPET JOINT DETAILS**

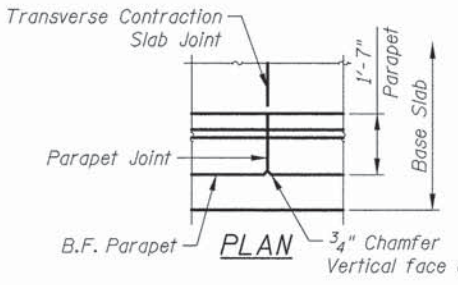
- Parapet Joint notes:
1. Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
  2. 1#2" Preformed Self-Expanding Cork Joint Filler according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.



**BAR d(E)**

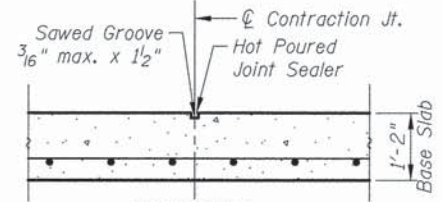


**BAR d(E)**



**TRANSVERSE CONTRACTION JOINT**

See Art. 420.05(c) of Standard Specifications



**SECTION**

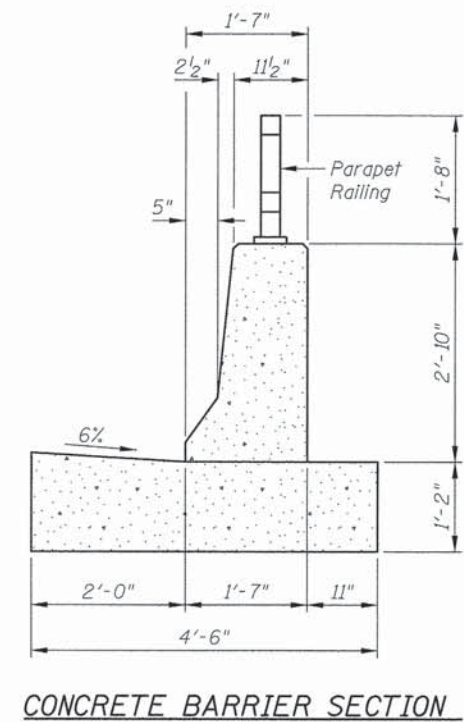
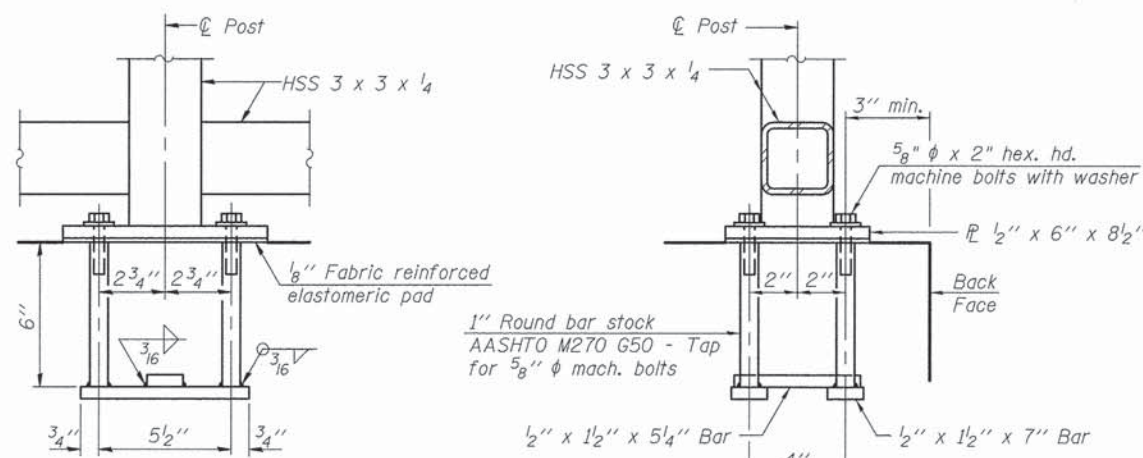
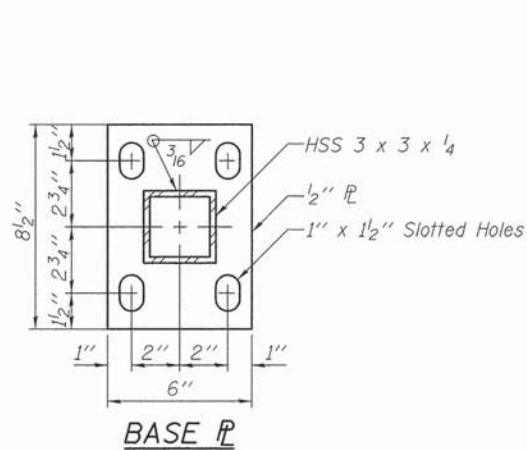
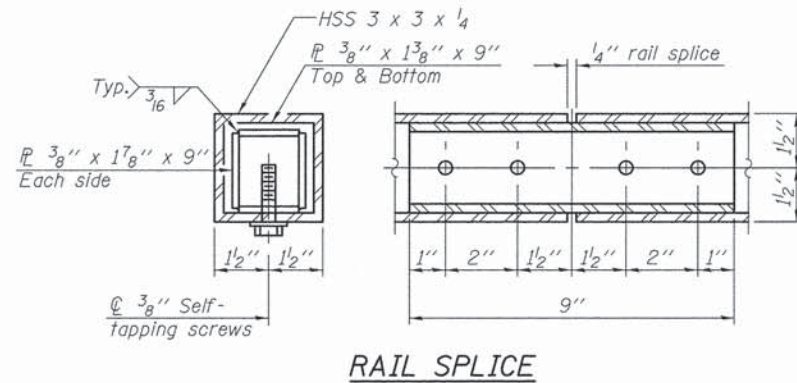
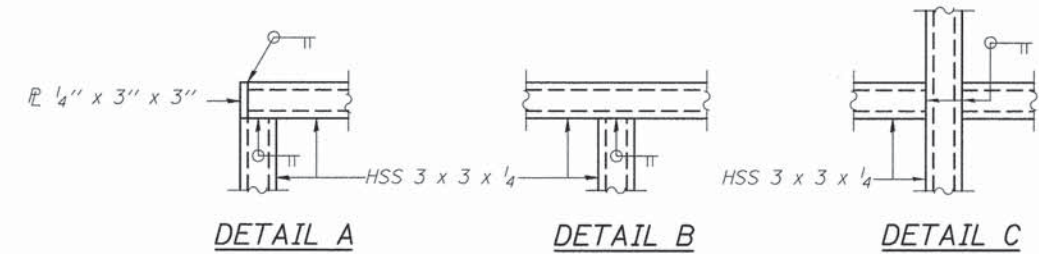
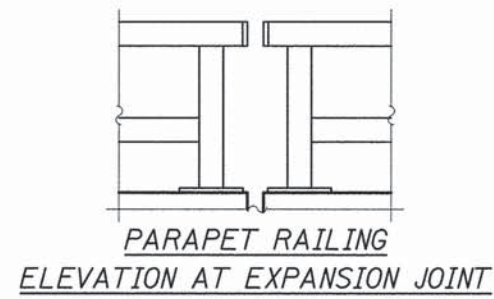
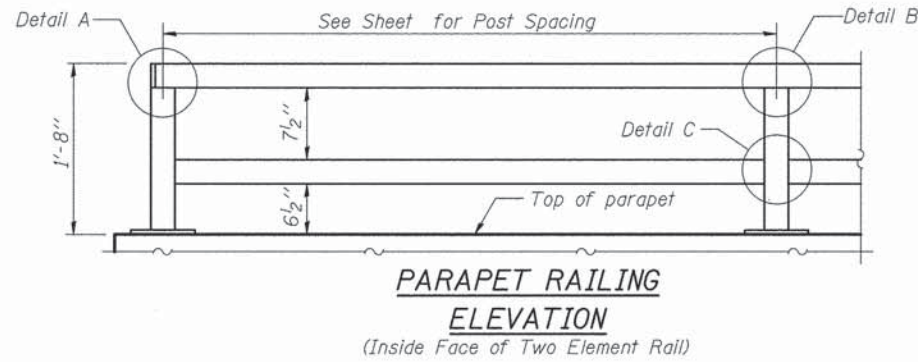
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DRAWN - M. LANGE	REVISED -
DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 48
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				



All post, railing, splices, anchor devices, and bent plates shall be painted using the color Traffic Black (RAL 9017).  
 All posts shall be normal to the parapet.  
 All joints in rail shall be spliced per the detail.  
 All exposed rail ends shall be capped per the detail.  
 Provide (1) 1/8" and (2) 1/16" aluminum shims for 25% of the posts.  
 Rail elements shall be parallel to grade - High spots shall be ground and low spots shimmed. Cost included in Parapet Railing.



**ANCHOR BOLT DETAILS**  
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" phi anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

**BILL OF MATERIAL**

Item	Unit	Quantity
Parapet Railing	Foot	260

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450 E Devon Ave, Suite 300  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

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DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PARAPET RAILING DETAILS  
 WALL A, WASHINGTON STREET**

SHEET NO. 58 OF 59 SHEETS

F.A.U. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 49
CONTRACT NO. 61A40				
ILLINOIS FED. AID PROJECT				

MIDLAND STANDARD ENGINEERING & TESTING, INC.  
STRUCTURE FOUNDATION BORING LOG

Page 1 of 1

ROUTE 1223 DESCRIPTION Washington Street/Bike Path LOGGED BY MP  
SECTION 09-00135-11-BT LOCATION West End of Extension  
COUNTY Lake STRUCTURE NO. (Exist) (Prop.)  
BORING NO. B-1 DRILLING METHOD CFA HAMMER TYPE Automatic

SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION									
						(ft.)	(ft.)	/6"	(tsf)	(%)					
Pavement Materials, 12.5" Bit. Concrete over 16" Granular Base Course															
770.6		5	6-6	3.08	BS	8									
Brown, Grey, & Black Sandy Clay LOAM, A-6 FILL very stiff		4	4	2.31	BS	15									
766.5		4	4	2.62	S	23									
Black to Dark Grey CLAY, A-7-6 firm		5	5-6	1.55	BS	23									
8		2	2	1.16	B	20									
Grey CLAY, A-6 stiff to very stiff		2	2	1.27	BS	18									
763.5		12	2	2.17	B	17									
16		5	7-8	3.38	B	16									
16		3	4-4	2.21	B	18									
753.5		10	8	0.50	B	17									
753		20	5-5			8									
Grey SAND & GRAVEL, A-1 medium dense															
End of Boring at 20 Feet															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MIDLAND STANDARD ENGINEERING & TESTING, INC.  
STRUCTURE FOUNDATION BORING LOG

Page 1 of 1

ROUTE 1223 DESCRIPTION Washington Street/Bike Path LOGGED BY MP  
SECTION 09-00135-11-BT LOCATION West Extension  
COUNTY Lake STRUCTURE NO. (Exist) (Prop.)  
BORING NO. B-2 DRILLING METHOD CFA HAMMER TYPE Automatic

SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION									
						(ft.)	(ft.)	/6"	(tsf)	(%)					
Pavement Materials, 10.5" Bit. Concrete over 17" Sand & Gravel Base Course															
769.7		8	5-6	1.55	BS	14									
Brown & Grey Sandy Clay LOAM, A-6 FILL stiff		4	4	1.94	BS	18									
742		4	4	1.27	BS	18									
to Dark Grey & Brown		8	2	2.10	B	26									
762.5		2	2-5	2.52	B	23									
to Black, very stiff Orangish Brown & Grey Silty CLAY, A- 6 very stiff		2	2-5	2.52	B	23									
761.5		12	4	5-8	-	18									
Grey CLAY, A-6 stiff		4	4	1.13	B	19									
756.5		16	1	2-4	-	16									
Grey SAND & GRAVEL, A-1 saturated, slightly dense															
754		3	5-4	-	-	25									
Grey Sandy LOAM, A-2-4 slightly dense		20	3	4-5	1.16	B	18								
751.5		24	1	3-7	1.20	B	16								
Grey CLAY, A-6 stiff		10	1	1.37											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MIDLAND STANDARD ENGINEERING & TESTING, INC.  
STRUCTURE FOUNDATION BORING LOG

Page 1 of 1

ROUTE 1223 DESCRIPTION Washington Street/Bike Path LOGGED BY MP  
SECTION 09-00135-11-BT LOCATION East Extension of Wall  
COUNTY Lake STRUCTURE NO. (Exist) (Prop.)  
BORING NO. B-3 DRILLING METHOD CFA HAMMER TYPE Automatic

SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION									
						(ft.)	(ft.)	/6"	(tsf)	(%)					
Pavement Materials, 12.5" Bit. Concrete over 16" Granular Base Course															
524+55		6	6-7	3.0	Op	14									
Black Silty CLAY Topsoil over dark Brown & black Clay LOAM, A-6 FILL, very stiff		4	3	1.73	BS	14									
765.5		4	4	1.27	BS	18									
Dark Grey, Brown, & Black CLAY A-6 FILL stiff		8	2	2-4	S	18									
764.5		2	2	0.78	S	18									
Dark Grey Silty CLAY, A-6, little organics		2	2-6	1.75	Op	16									
Brown and Grey Silty Clay LOAM, A-6 firm to stiff		12	4	3.30	B	14									
760		4	7-9	3.10	B	16									
Grey CLAY, A-6 very stiff to stiff		16	4	0.97	B	18									
4		4	5-6	1.36	B	19									
20		3	4-5	1.16	B	18									
24		1	3-7	1.20	B	16									
10		10	1	1.37											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

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www.civiltechinc.com

DRAWN - M. LANGE	REVISED -
DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - MARCH 24, 2014	REVISED -

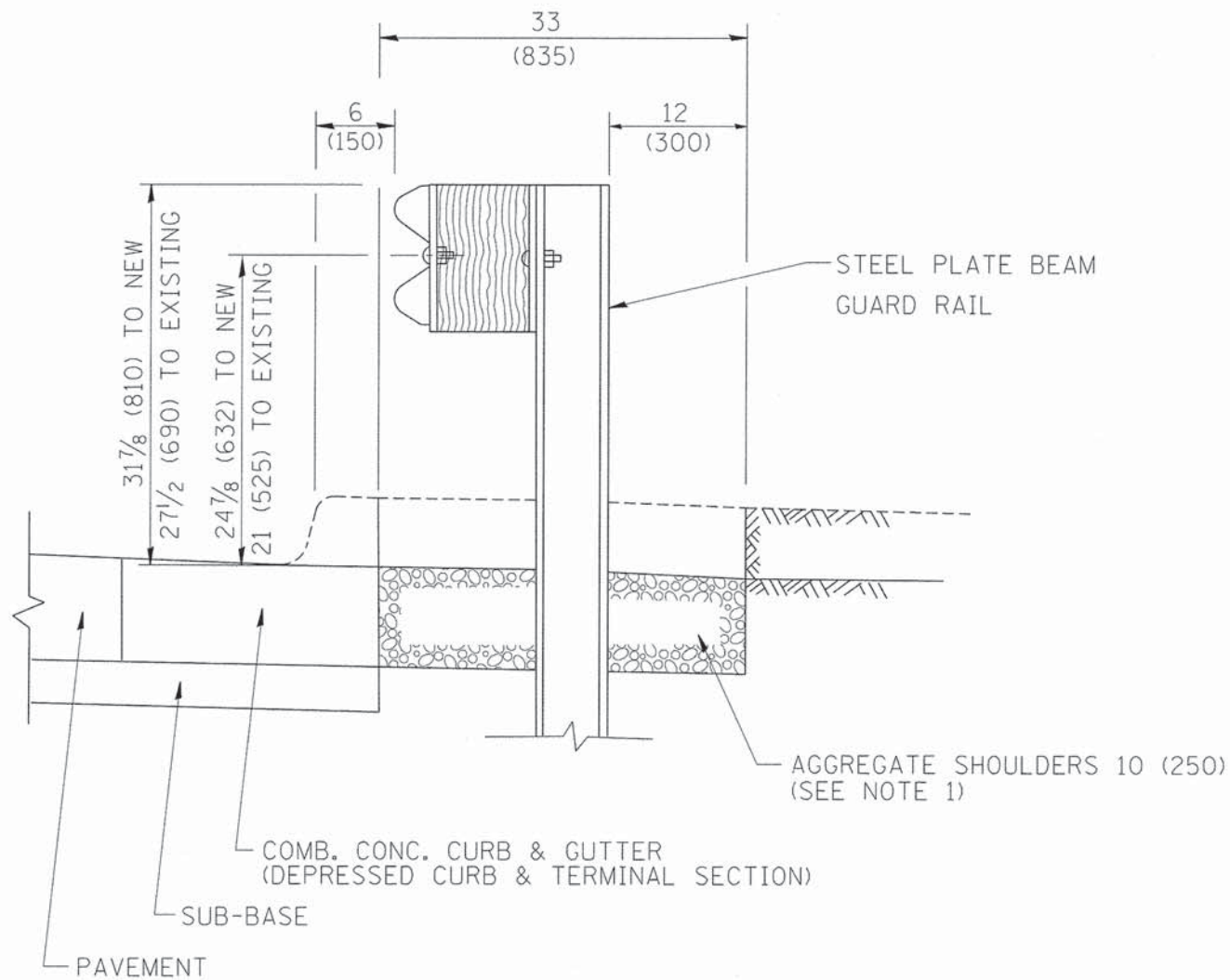
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
WALL A, WASHINGTON STREET

SHEET NO. 59 OF 59 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	50
CONTRACT NO. 61A40				

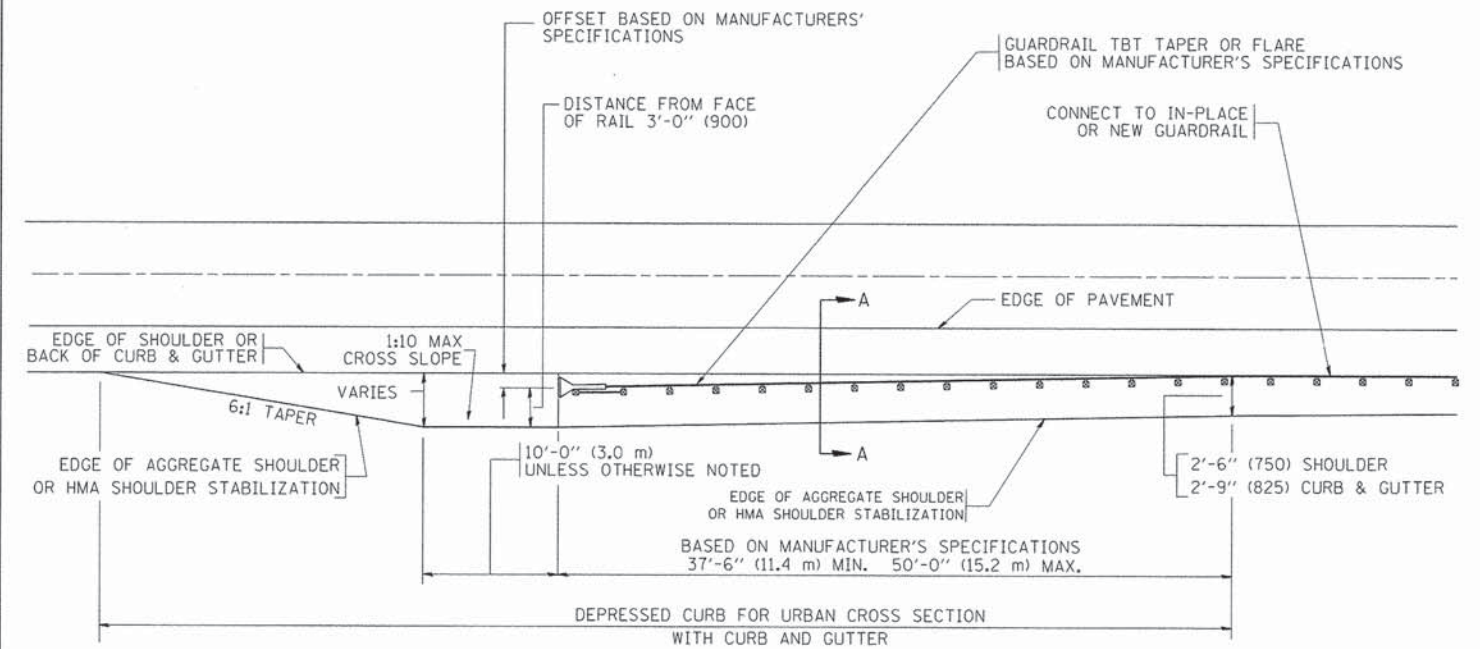
ILLINOIS FED. AID PROJECT



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
  2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
  3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM  
GUARD RAIL ADJACENT TO CURB AND GUTTER  
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

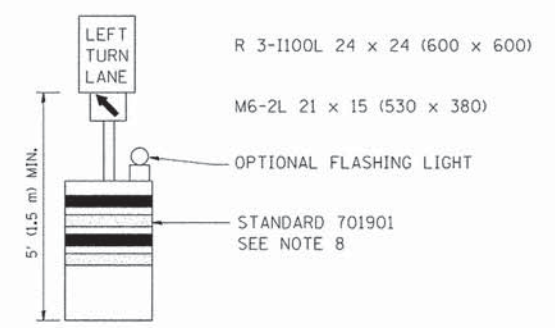
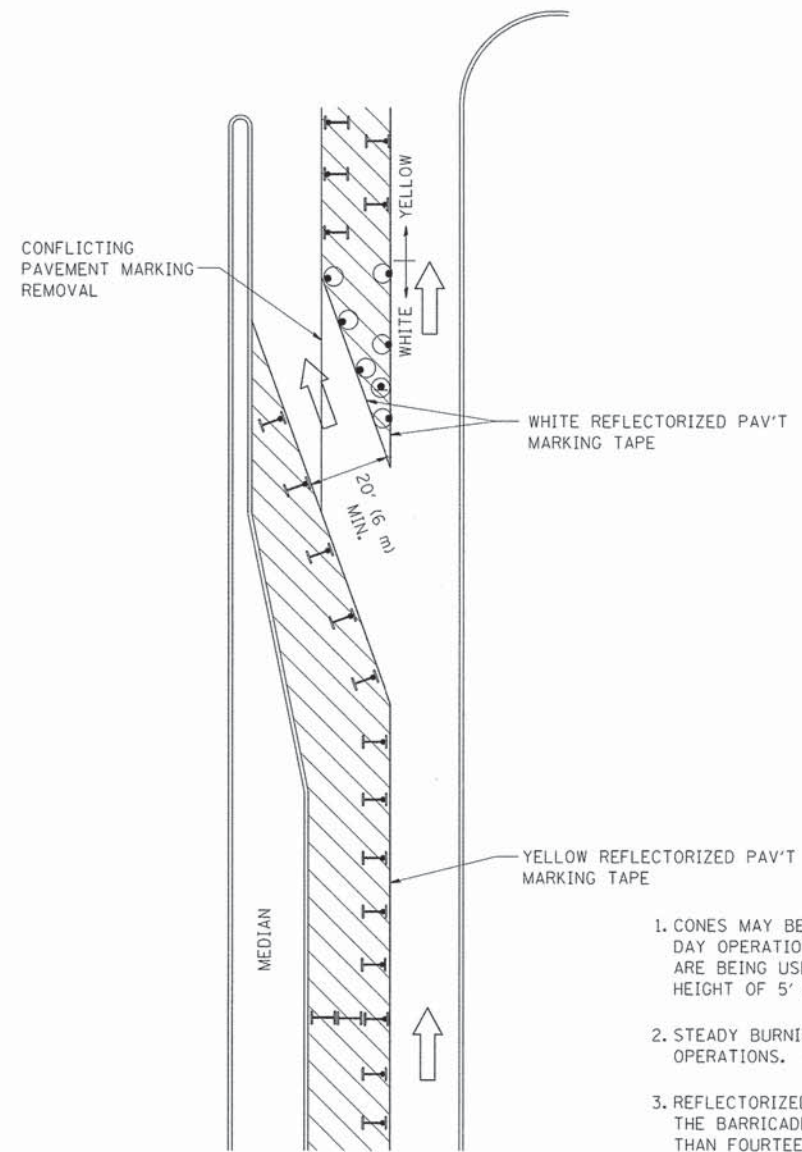
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	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND  
SHOULDER TREATMENT AT TBT TY 1 SPL.**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	51
BD600-10 (BD 34)			CONTRACT NO. 61A40	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

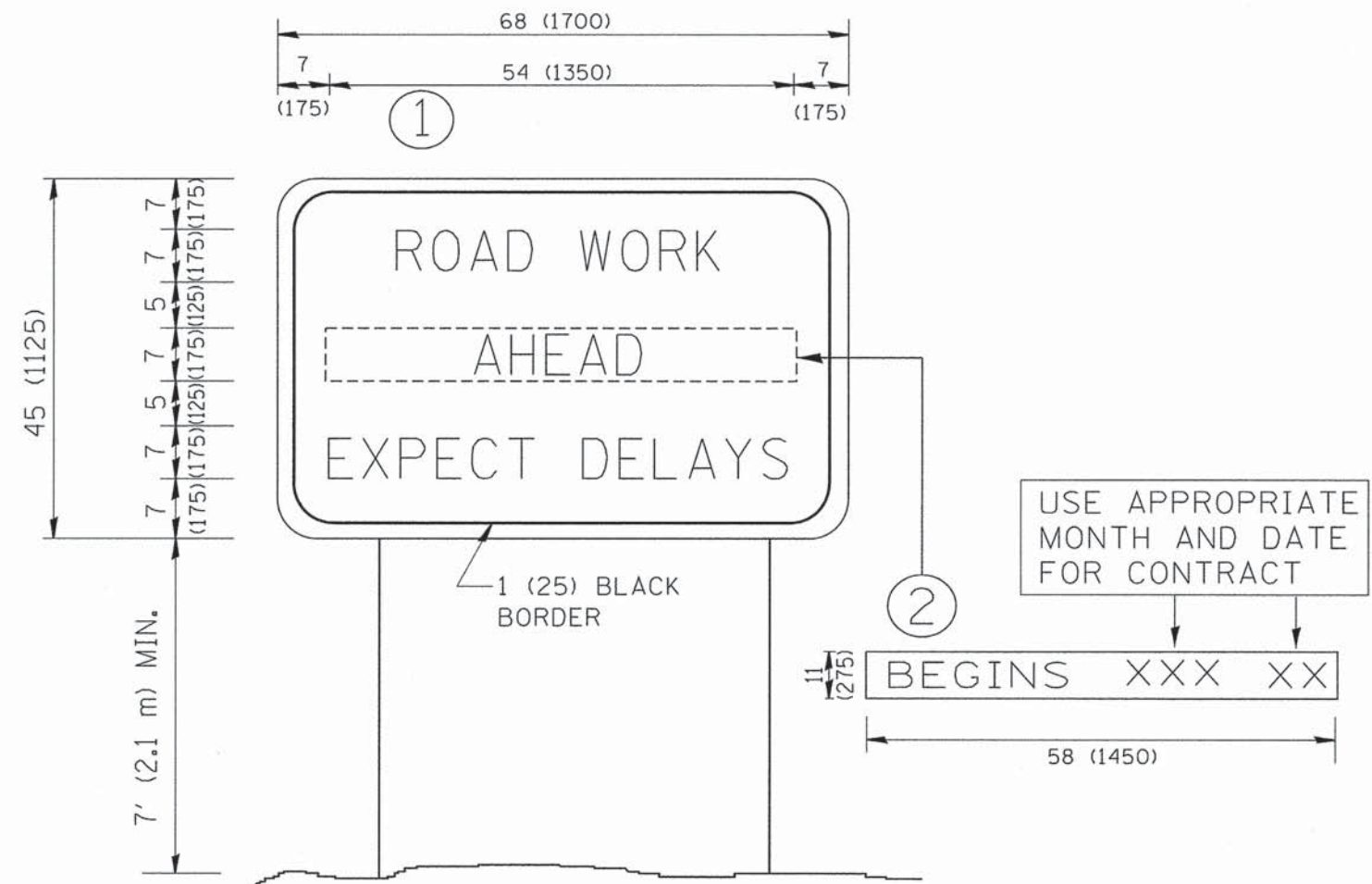
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = drivakosgn	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
es:\pw_work\PWIDOT\DRIVAKOSGN\d0100315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
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	PLOT DATE = 9/14/2009	REVISED -T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	52
TC-14			CONTRACT NO. 61A40	
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



**NOTES:**

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

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

FILE NAME = W:\dietsd\22x34\to22.dgn	USER NAME = geglianobt	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97
PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	
PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

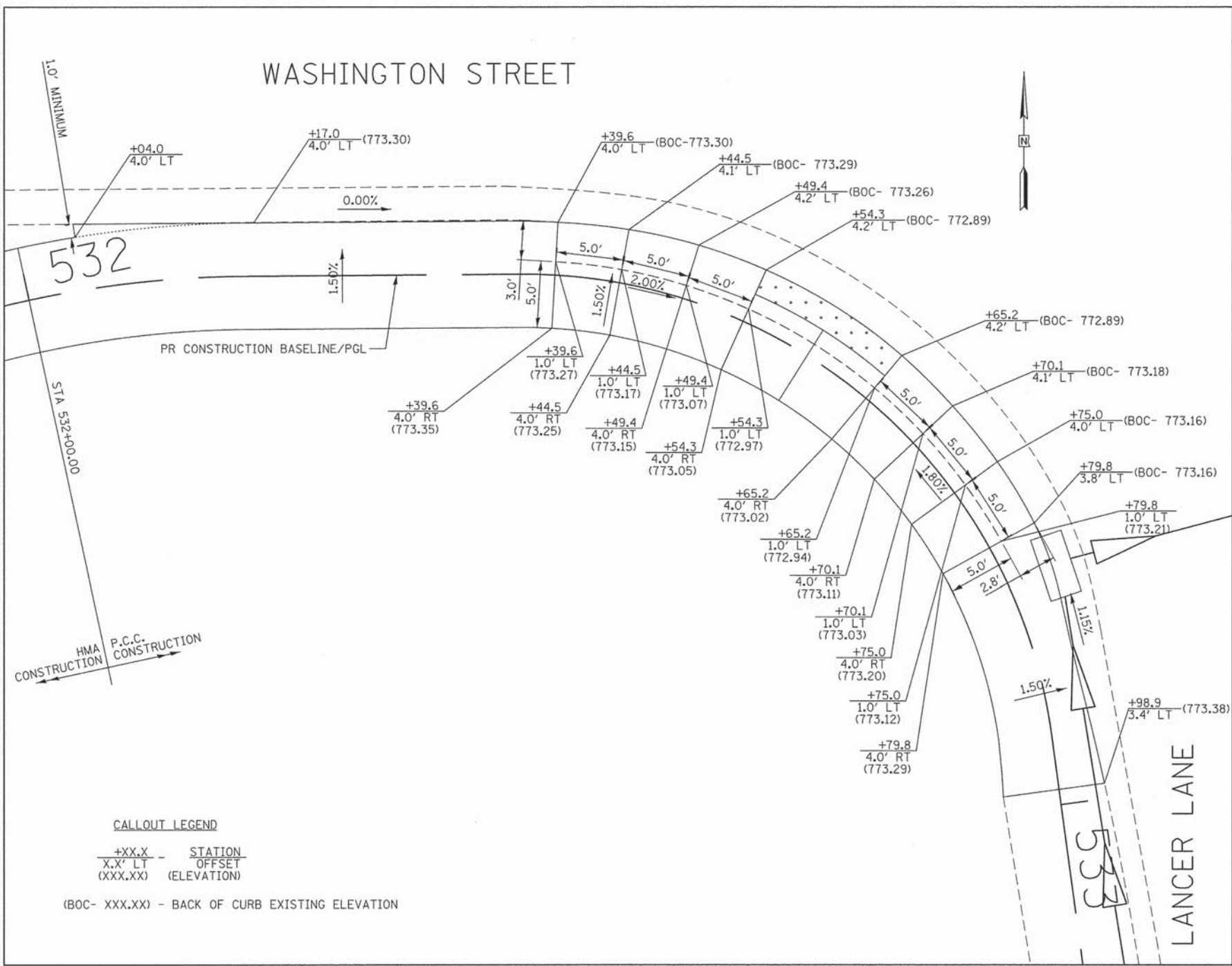
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INFORMATION SIGN

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

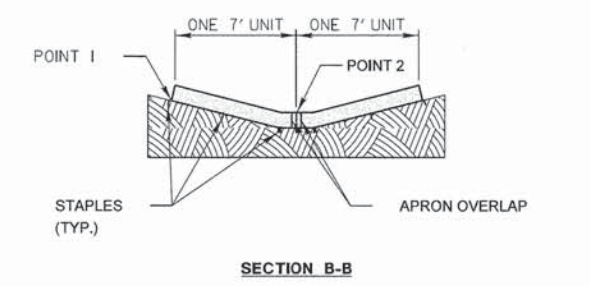
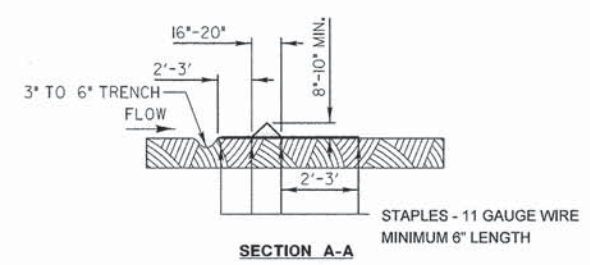
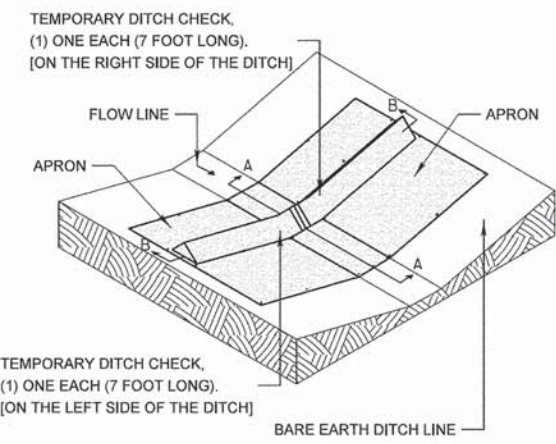
F.A. RTE. 1223	SECTION 09-00135-11-BT	COUNTY LAKE	TOTAL SHEETS 69	SHEET NO. 53
TC-22			CONTRACT NO. 61A40	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

DATE	
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NO.	
DATE	
BY	
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**FOR BARE EARTH APPLICATION ONLY**



**NOTES:**  
THE TEMPORARY DITCH CHECK SHALL BE USED IN BARE EARTH DITCH LINES AND SHALL BE REMOVED JUST PRIOR TO THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A TEMPORARY DITCH CHECK 14 FEET IN LENGTH.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAM.

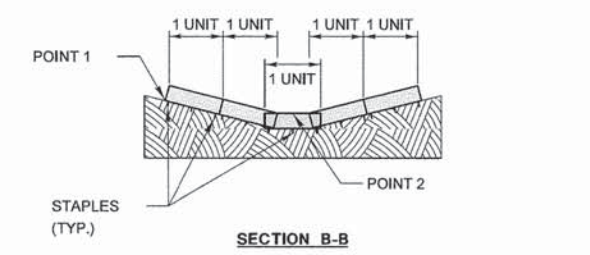
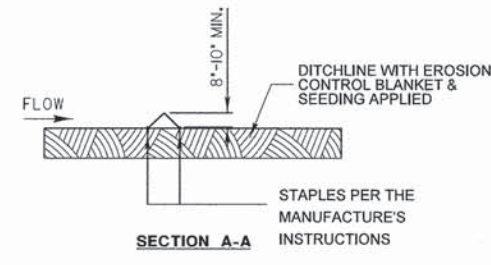
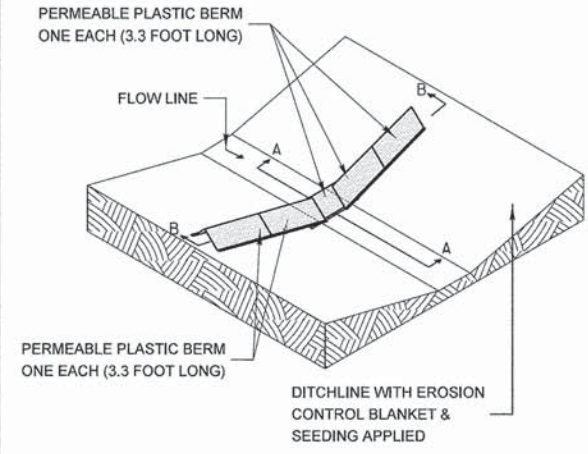
POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ADDED DIMENSIONS	04/18/08	DATE: APRIL 1, 2007
REVISED PAY ITEM	04/15/10	
ADDED PLASTIC BERM (pg2)	10/10/12	

**TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH**

(SHEET 1 OF 2)

**FOR USE WHILE ESTABLISHING FINAL LANDSCAPING**



**NOTES:**  
THE PERMEABLE PLASTIC BERM SHALL REPLACE THE TEMPORARY DITCH CHECK AFTER THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

EACH PERMEABLE PLASTIC BERM IS 3.3 FEET IN LENGTH. THE MINIMUM INSTALLATION IN A DITCH SHALL BE THREE UNITS. THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A PERMEABLE PLASTIC BERM 16.5 FEET IN LENGTH (5 UNITS).

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND ACCORDING TO THE MANUFACTURE'S INSTALLATION INSTRUCTIONS.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS THROUGH OR OVER THE BERM AND NOT AROUND THE ENDS.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ADDED DIMENSIONS	04/18/08	DATE: APRIL 1, 2007
REVISED PAY ITEM	04/15/10	
ADDED PLASTIC BERM (pg2)	10/10/12	

**TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH**

(SHEET 2 OF 2)

DATE	
BY	
REVIEWED	
BY	
DATE	
NO.	
NOTE BOOK	
NO.	
NO.	
NO.	

1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS

2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH

3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS

POSTS - CHOICE OF:  
1.2" X 1.2" NOMINAL HARDWOOD POSTS  
2.6" X 2.6" NOMINAL NO.2 SOUTHERN PINE OR  
U, T, L OR C-SHAPE STEEL POSTS WITH MIN. WEIGHT 1.33 LBS/FT

FASTENERS (TYP.)  
GEOTEXTILE FABRIC  
COMPACTED SPOIL MATERIAL  
FABRIC EXTENSION INTO TRENCH

30" MIN. ABOVE GROUND  
BURIED DEPTH = 20" MIN.  
24" MIN. IF SLOPE > 3:1

\* NOTE: OPTIONAL WIRE SUPPORT  
- MIN. 30" HEIGHT  
- MIN. 14 GAUGE WIRE  
- MIN. 6 HORIZ. WIRES  
- MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

Requirements	Test Methods	Wire Backed Supported Silt Fence *	Unsupported Silt Fence	
			Geotextile Elongation >=50% <sup>b</sup>	Geotextile Elongation <50% <sup>b</sup>
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100lbs
Permeability <sup>c</sup>	ASTM D 4491	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

REVISIONS	DATE
ORIG. by LCSMC	4/21/08
Update Text	7/15/11

LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: JUNE 20, 2008

**PERIMETER EROSION BARRIER INSTALLATION**

LC2051

DESIGN NOTE:  
If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

(A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50  
(B) AGGREGATE BASE COURSE, TYPE B 6"  
(C) FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

SCALE:  
VERTICAL 1" = 2'  
HORIZONTAL 1" = 4'

REVISIONS	DATE
Changed BP to 3" Surface	5/1/2008
Modified Agg. Base Course	3/1/2008
CHANGE TO MIX "D"	2/20/2008
Revised Type A to Type B Aggregate	12/20/12

LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

**TYPICAL SECTION 10' HOT-MIX ASPHALT BIKEPATH**

LC4003

DATE	
BY	
REVIEWED	
BY	
DATE	
NO.	
NOTE BOOK	
NO.	
NO.	
NO.	

CROSS-HATCHED AREA TO BE KEPT CLEAR OF BRUSH AND TREE BRANCHES.

SCALE:  
VERTICAL 1" = 2'  
HORIZONTAL 1" = 4'

REVISIONS	DATE

LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: 04/10/13

**VEGETATION MAINTENANCE REQUIRED CLEARANCE FOR 10' BIKEPATH**

LC2200

DESIGN NOTE:  
•Slope away from road in fill sections  
•Slope toward road in cut sections  
If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

(A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50  
(B) AGGREGATE BASE COURSE, TYPE B 6"  
(C) FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

SCALE:  
VERTICAL 1" = 2'  
HORIZONTAL 1" = 4'

REVISIONS	DATE
Changed BP to 3" Surface	5/1/2008
Modified Agg. Base Course	3/1/2008
CHANGE TO MIX "D"	2/20/2008
Revised Type A to Type B Aggregate	12/20/12

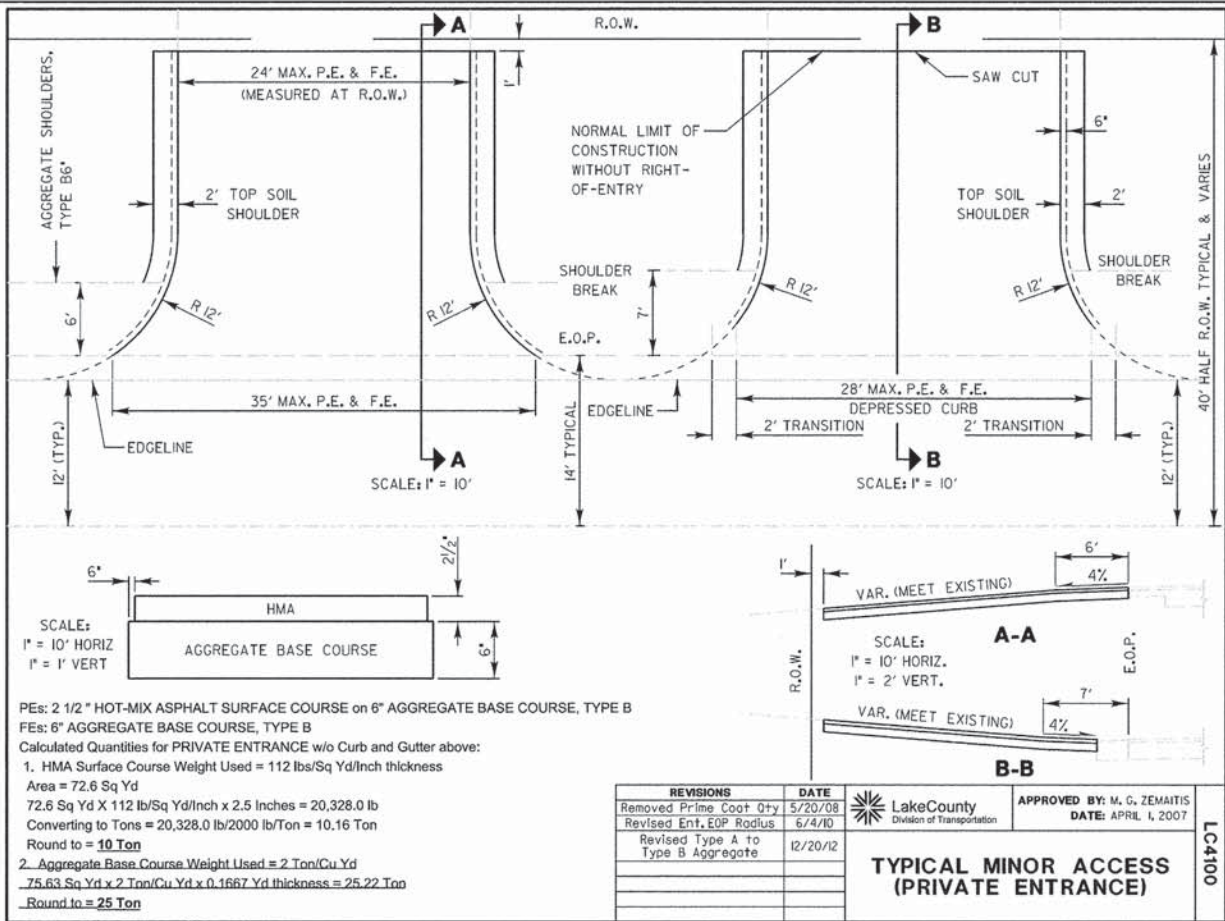
LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

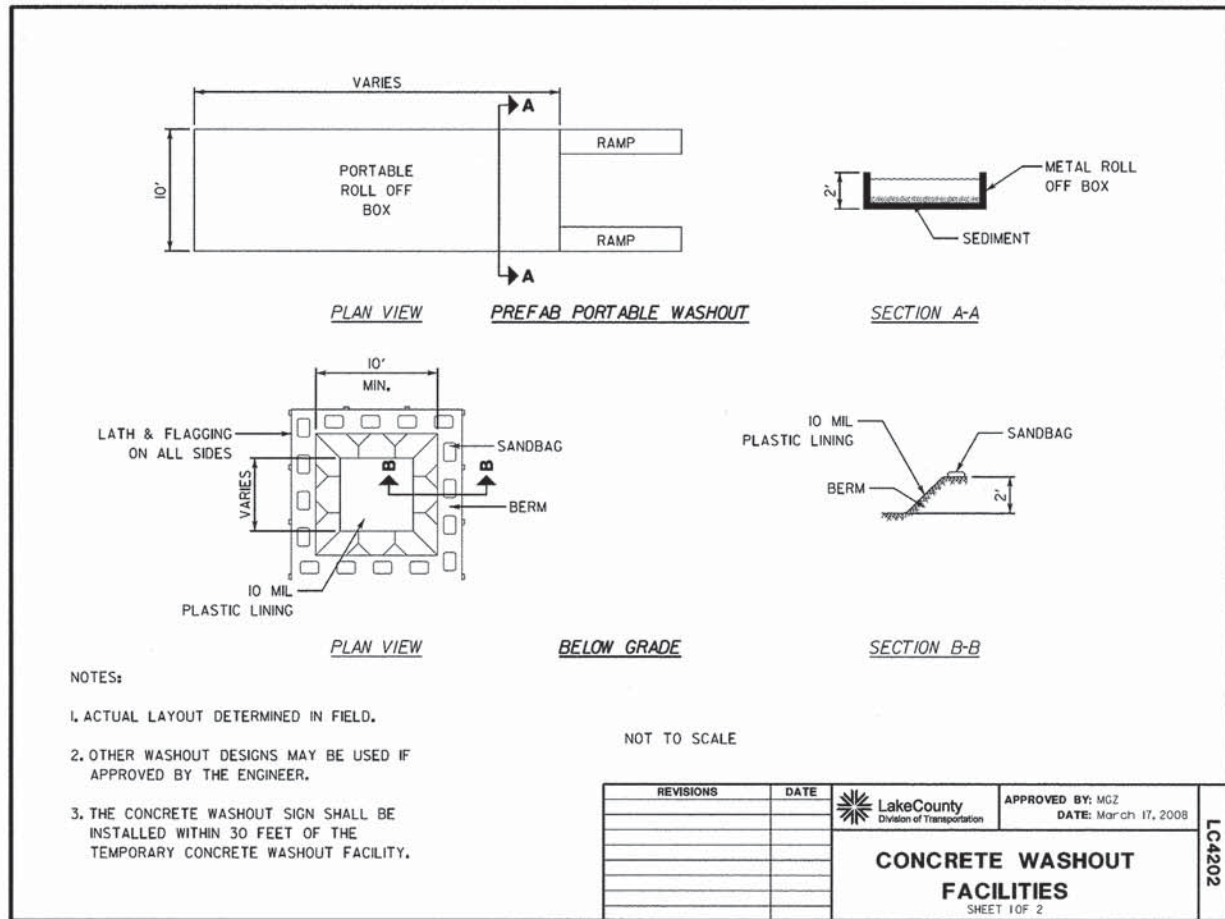
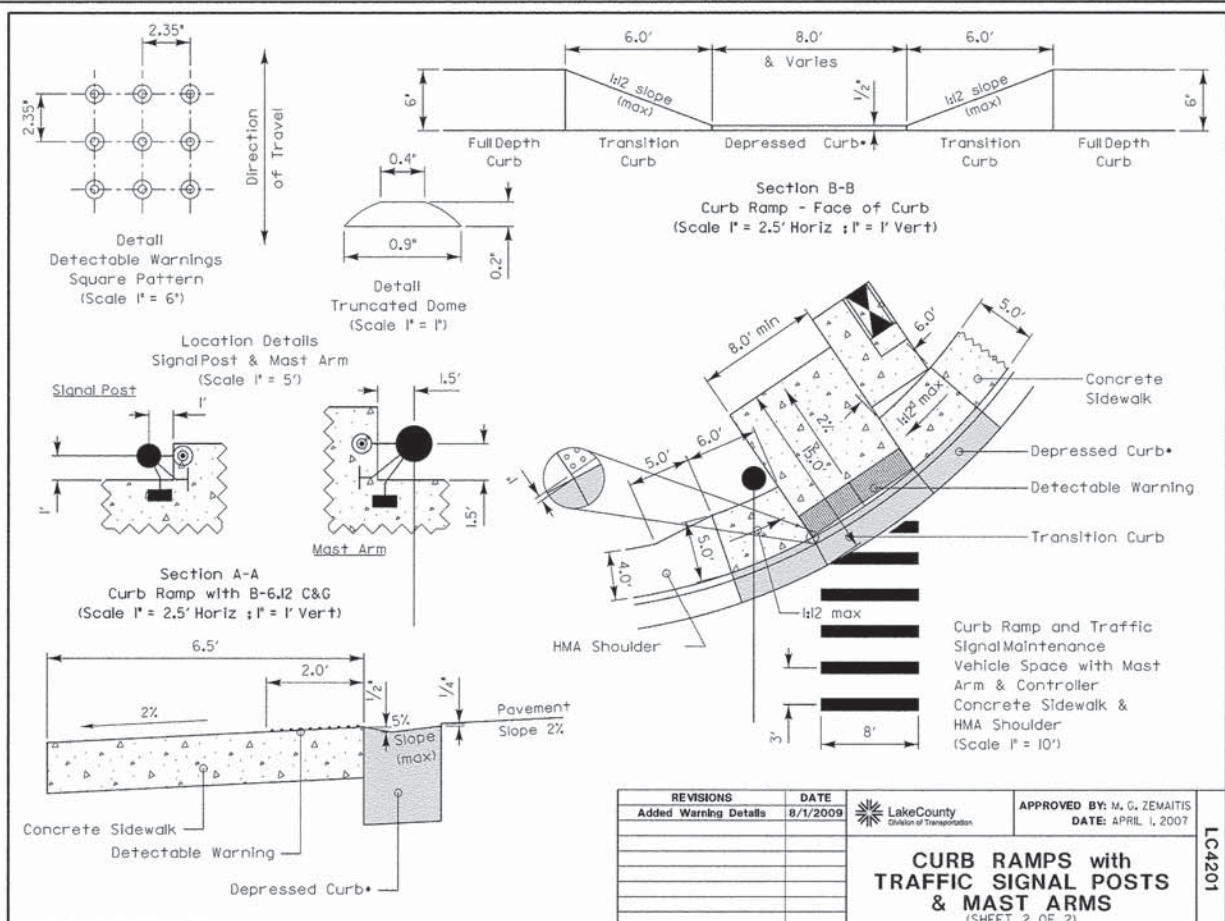
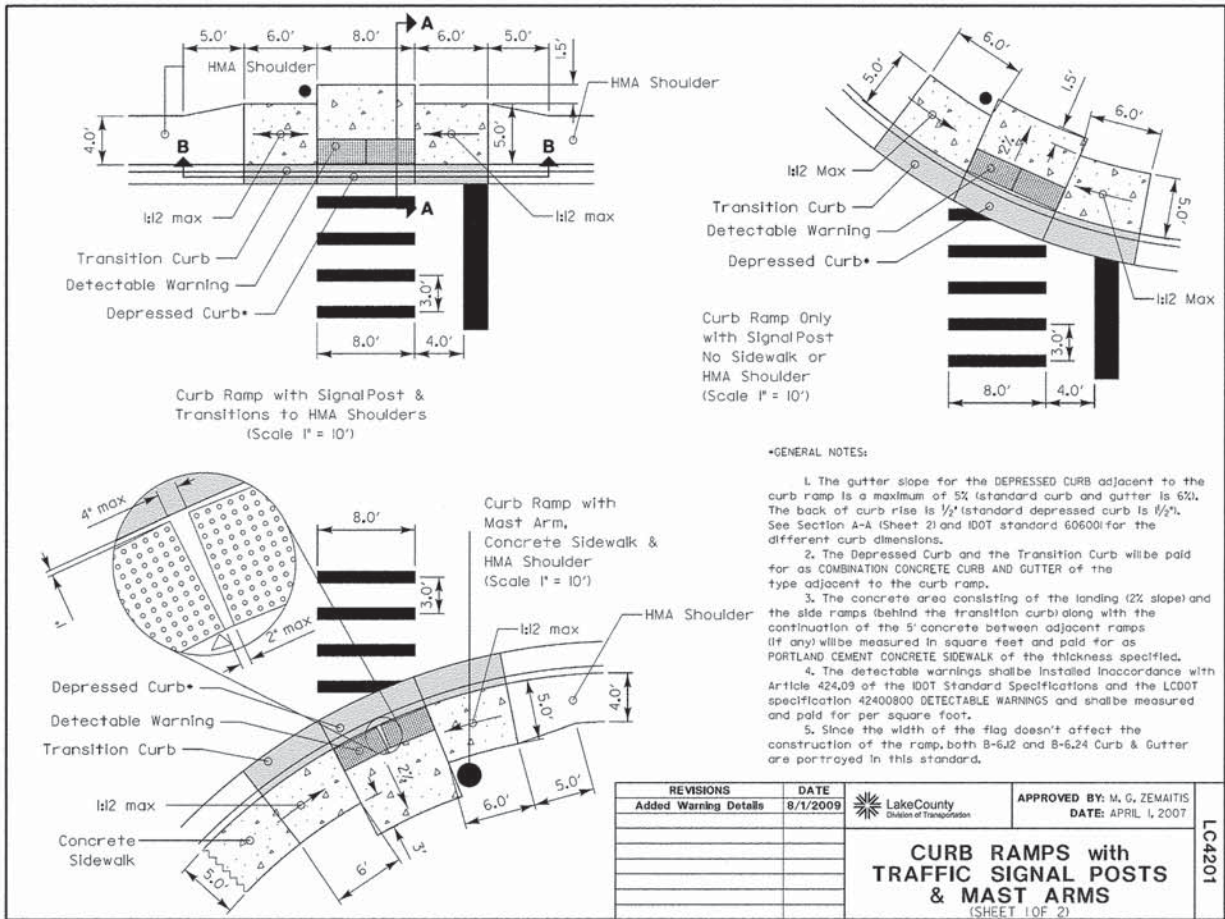
**TYPICAL SECTION 10' HOT-MIX ASPHALT BIKEPATH IN VICINITY OF CURB & GUTTER**

LC4004

DATE	
BY	
SURVEYED	
NOTE BOOK	
ALIGNED	
CHECKED	
PT. OF WAY	
NO.	
FILE NAME	



DATE	
BY	
SURVEYED	
NOTE BOOK	
GRADES CHECKED	
NO.	
STRUCTURE	
NOTATION	
CHKD	





DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

**CONCRETE WASHOUT FACILITIES**  
SHEET 2 OF 2

APPROVED BY: MGZ  
DATE: March 17, 2008

REVISIONS: [Table with 2 columns: REVISIONS, DATE]

**DRAINAGE STRUCTURES RIM ELEVATIONS AND OFFSETS**

APPROVED BY: MGZ  
DATE: 03/09/2012

REVISIONS: [Table with 2 columns: REVISIONS, DATE]

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

**EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)**

**EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)**

**ADJUSTABLE TIE ROD (ALTERNATE NO. 3)**

**JOINT TIES FOR CONCRETE PIPE**

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

REVISIONS: [Table with 2 columns: REVISIONS, DATE]

**TYPICAL PIPE DRAIN/PIPE UNDERDRAIN OUTLET**

**DESIGN NOTES:**

**RODENT SHIELDS DETAIL (ALTERNATES)**

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

REVISIONS: [Table with 2 columns: REVISIONS, DATE]

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 ALIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 PART OF WAY CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 RAM NOTED: \_\_\_\_\_  
 STRUCTURE: \_\_\_\_\_  
 NOTATIONS: \_\_\_\_\_  
 NO. \_\_\_\_\_

ASSEMBLY CABLE PC 3000G  
 PC 998A OFFSET STRUT  
 PC 782G BEARING PLATE  
 PC 704G CABLE ANCHOR  
 GUARDRAIL EXIT SLOT AWAY FROM TRAFFIC  
 PC 985A GUARDRAIL EXTRUDER  
 PC 62G DEEP BEAM GUARDRAIL  
 STANDARD LINE POSTS  
 5/8" x 11/4" LG H.G.R. SPLICE BOLTS & NUTS  
 3/8" x 5" LG LAG SCREWS  
 DO NOT ATTACH RAIL TO BLOCK AT THIS LOCATION  
 LENGTH OF NEED  
 TRAFFIC

SCALE: 1" = 6'

SECTION "B-B" (TYP @ POSTS \*3, 4, 6, 7 & 8)  
 SECTION "A-A" (@ POST \*2)  
 PARTIAL VIEW (@ POST \*1)

SCALE: 1" = 3'

NOTES:  
 1. THE 3/4" FLAT WASHER IS USED UNDER THE NUT, BEHIND THE POST ONLY. NO WASHER IS USED AT THE RAIL.  
 2. THE BREAKAWAY POSTS @ LOCATIONS \*5, 6, 7 & 8 MAY BE AS SHOWN OR MAY UTILIZE POSTS AS SHOWN IN OPTION "B" WITHOUT FOUNDATION TUBES. (SEE DRAWING NO. SS 241) POSTS @ LOCATIONS \*1, 2, 3 & 4 MUST USE FOUNDATION TUBES.  
 3. THE ER-2000 WAS TESTED ON FLAT & LEVEL TERRAIN. IT IS NOT RECOMMENDED ON SLOPES.  
 4. MANUFACTURER SUGGESTS CUSTOMER TO PROVIDE REFLECTORIZATION OF TERMINAL.

PC	QTY	DESCRIPTION
600	1	DEEP BEAM GUARD RAIL (12GA)
620	1	DEEP BEAM GUARD RAIL (12GA)
782G	1	PIPE SLEEVE
782G	8	SOIL PLATE
4148B	7	WOOD BLOCK
4147B	8	WOOD POST
740G	8	STEEL TUBE
782G	1	BEARING PLATE
704A	1	CABLE ANCHOR
3000G	1	CABLE ASSEMBLY
998A	1	OFFSET STRUT
985A	1	GUARDRAIL EXTRUDER
54912C	8	5/8" x 3 1/2" HEX HD BOLT
5580C	7	5/8" x 18" H.G.R. POST BOLT
3380C	16	5/8" x 1 1/4" H.G.R. SPLICE BOLT
3479C	16	5/8" x 7 1/2" HEX HD BOLT
1340C	47	5/8" H.G.R. NUT
1300C	11	5/8" WASHER
3264C	2	3/8" x 5" LAG SCREW
3910C	2	1" HEX NUT
3900C	2	1" WASHER

ET-2000  
 PLAN, ELEVATION & SECTION  
 1994 EDITION  
 SYRO, INC. SS 240

REVISIONS	DATE

LakeCounty  
 Division of Transportation  
 APPROVED BY: A. KHAWAJA  
 DATE: APRIL 1, 2007

TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)

LC6810

ELEVATION, 3-RAIL, 8' NOM. LENGTH  
 96"  
 (PANELS ALSO AVAILABLE FOR 6' O.C. POST SPACING)

CROSS SECTION OF HORIZONTAL RAIL  
 1 1/2"  
 1"  
 1 1/4"

ISOMETRIC, 3 RAIL

LCDDOT PREFERS PYRAMID CAP BALL POST CAP AVAILABLE  
 HORIZONTAL RAIL 1 1/2" x 14 GA.  
 1" x 16 GA. PICKET  
 2 1/2" x 12 GA. POST (FOR 4' FENCE HEIGHT)  
 3" x 12 GA. POST ALSO AVAILABLE  
 UNIFORM ZINC COATING (HOT DIP GALVANIZED)  
 BASE MATERIAL  
 UNIFORM ZINC COATING (HOT DIP GALVANIZED)  
 ZINC PHOSPHATE & CONVERSION COATING  
 POLYESTER POWDER COATING  
 PANEL BRACKET TWO-POINT RAIL END CONNECTION  
 INTERNAL RETAINING ROD, CONTINUOUS VARIABLE PITCH CONNECTION SYSTEM ELIMINATES EXTERNAL FASTENERS  
 HORIZONTAL RAIL DOUBLE-WALLED "U" CHANNEL SPECIALLY FORMED HIGH STRENGTH ARCHITECTURAL SHAPE.  
 CONCRETE FOOTING  
 LCDDOT PREFERS THE COLOR BLACK ALSO AVAILABLE IN BRONZE, WHITE & DESERT SAND.  
 GATES: SPECIFY OPENING WIDTHS  
 SINGLE \_\_\_\_\_ QUANTITY \_\_\_\_\_  
 DOUBLE \_\_\_\_\_ QUANTITY \_\_\_\_\_

Post Selection for Fence Height 6' - 10'				
Wind Loading				
Fence Height (FT)	Rail Length (FT)	Post Size	Wind Load Capacity Factor (PSF)	Typical Wind Load Capacity (mph)
6	6	2 1/2" x 12 GA.	45.5	133.0
	8	3" x 12 GA.	54.6	146.0
	10	2 1/2" x 12 GA.	34.2	116.0
7	6	3" x 12 GA.	41.0	127.0
	8	2 1/2" x 12 GA.	33.4	114.0
	10	3" x 12 GA.	40.0	125.0
8	6	2 1/2" x 12 GA.	25.0	99.0
	8	3" x 12 GA.	30.0	108.0
	10	2 1/2" x 12 GA.	25.6	100.0
9	6	3" x 12 GA.	30.7	110.0
	8	2 1/2" x 12 GA.	18.2	87.0
	10	3" x 12 GA.	23.0	95.0
10	6	4" x 12 GA.	30.6	110.0
	8	4" x 12 GA.	32.0	113.0
	10	4" x 12 GA.	28.7	107.0

LakeCounty  
 Division of Transportation  
 APPROVED BY: M. G. ZEMAITIS  
 DATE: APRIL 1, 2007

ORNAMENTAL FENCE THREE RAIL (ONE MFG'S DETAILS)

LC6621

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE and UTILITY OPERATIONS

CONES AT 25' CENTERS FOR 250'. ADDITIONAL CONES MAY BE PLACED AT 50' CENTERS. WHEN BARRICADES ARE USED, THE DISTANCE BETWEEN DEVICES MAY BE DOUBLED.

SHOULDER OPERATIONS  
 \*TYPE II BARRICADE  
 W20-7a or W20-7  
 W21-1a or W21-1  
 W20-1

LEFT TURN LANE OR CENTER MEDIAN OPERATIONS  
 W20-1  
 W20-5  
 W21-1

CORNER/CORNER ISLAND OPERATIONS  
 W4-2  
 W20-5  
 W20-1

ADVANCE WARNING SIGN SPACING TABLE

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS		
	"A"	"B"	"C"
40 MPH or less	400 FEET	200 FEET	200 FEET
45-50 MPH	400 FEET	350 FEET	350 FEET
55 MPH	500 FEET	500 FEET	500 FEET

SYMBOLS  
 WORK AREA  
 CONE, BARRICADE, OR DRUM  
 SIGN ON PORTABLE OR PERMANENT SUPPORT  
 ARROW BOARD  
 TYPE II BARRICADE W/TYPE A FLASHING LIGHT  
 HIGH LEVEL WARNING DEVICE \*\*  
 FLAGGER WITH TRAFFIC CONTROL SIGN

MODIFIED IDOT STANDARD 701701-08

REVISIONS	DATE

LakeCounty  
 Division of Transportation  
 APPROVED BY: ANTHONY KHAWAJA  
 DATE: APRIL 1, 2007

URBAN LANE CLOSURE MULTILANE INTERSECTION

LC7003

6" x 6 3/8" WOOD BLOCK-OUT  
 1/2" GAP BETWEEN BUT ENDS OF COMPOSITE TIMBER  
 (4) M16-2 BUTTON HEAD BOLTS WITH STD. HEX NUTS  
 GALVANIZED STEEL ANGLE  
 6" x 6 3/8" WOOD BLOCK-OUT  
 (1) M16-2 POST BOLT WITH STD. HEX NUT  
 (4) M16-2 BUTTON HEAD BOLTS WITH STD. HEX NUTS  
 L2"x2"x0.25"  
 2"x6" GREY COMPOSITE TIMBER (SEE SPECIAL PROVISIONS)  
 L2"x2"x0.25" GALVANIZED STEEL ANGLE  
 1/2" GAP BETWEEN BUT ENDS OF COMPOSITE TIMBER  
 BITUMINOUS SURFACE  
 W6x9 OR W6x8.5 STEEL POST  
 2 7/8"

BOLT HOLE DETAIL  
 1 1/8"  
 3/4"

DUE TO EXPANSION AND CONTRACTION OF THE COMPOSITE TIMBER, THE LOCATION OF THE BOLTS WITH RESPECT TO THE SLOTTED BOLT HOLES IN THE COMPOSITE TIMBER WILL BE DEPENDANT ON THE AMBIENT TEMPERATURE AT PLACEMENT. CONSULT THE MANUFACTURER FOR BOLT HOLE LOCATION IN THE COMPOSITE TIMBER AND BOLT LOCATION IN THE SLOTTED BOLT HOLE.

REVISIONS	DATE

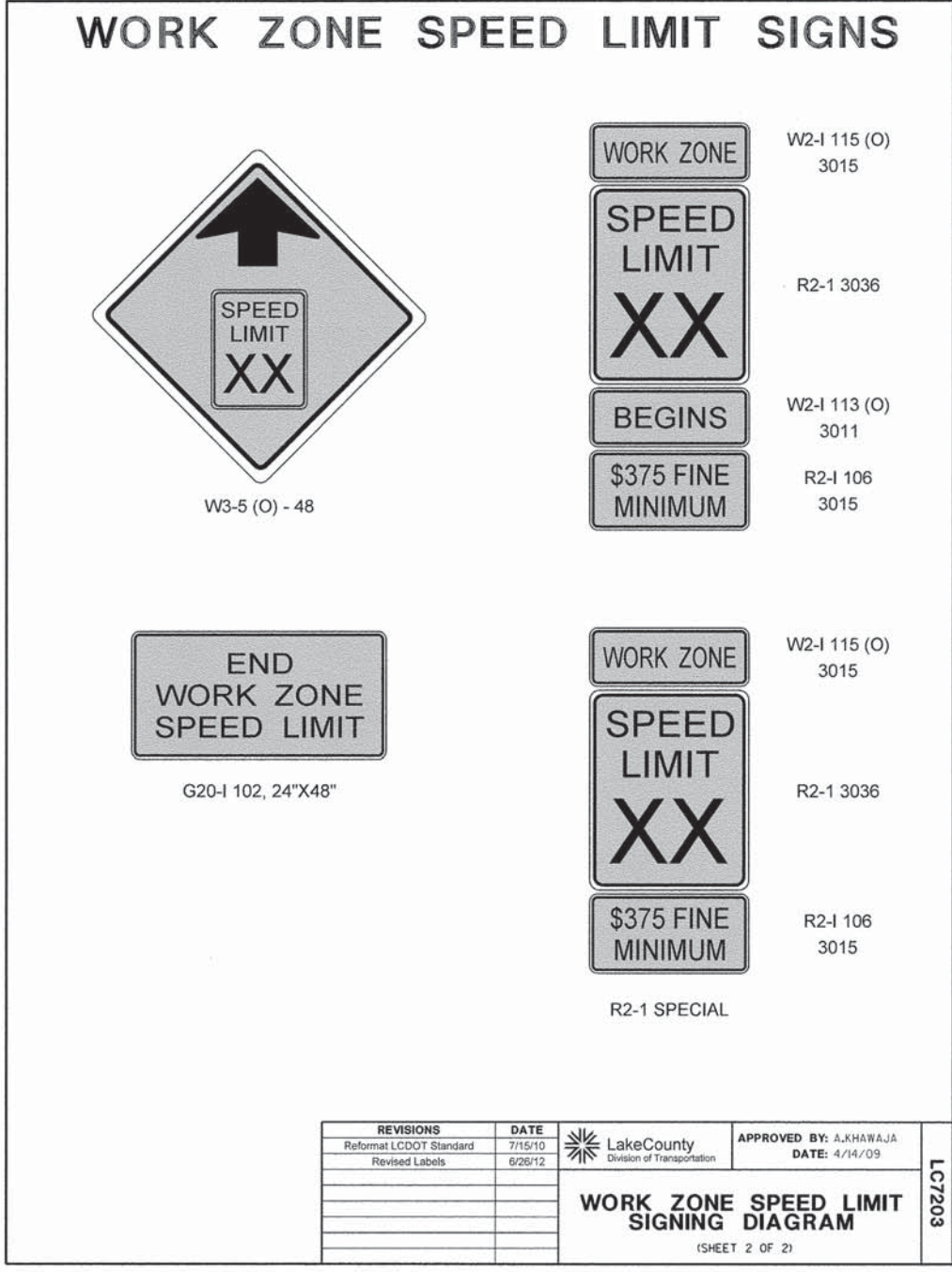
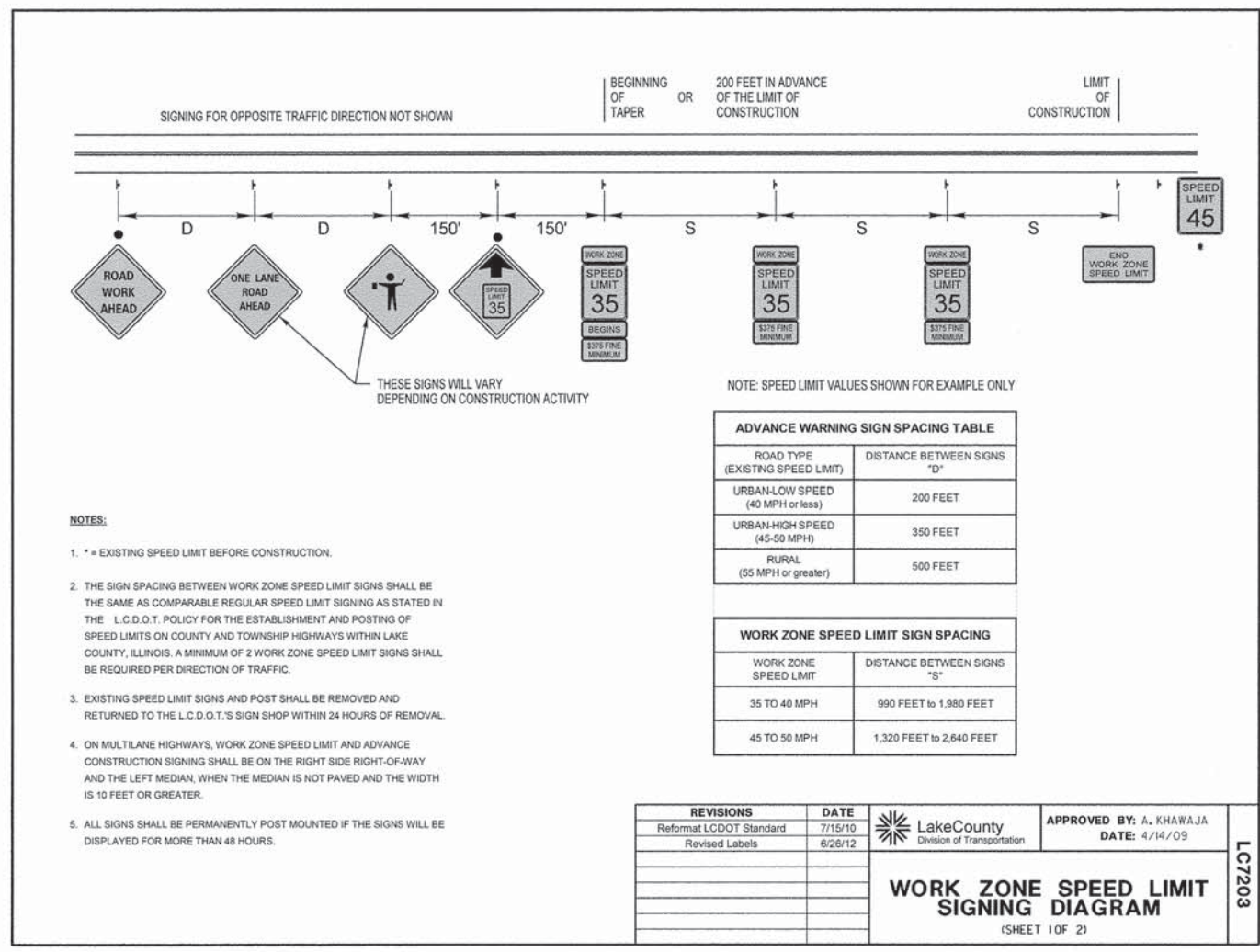
LakeCounty  
 Division of Transportation  
 APPROVED BY: M. G. ZEMAITIS  
 DATE: APRIL 1, 2007

BIKE PATH APPROACH GUARDRAIL ADJUSTMENT

LC6621

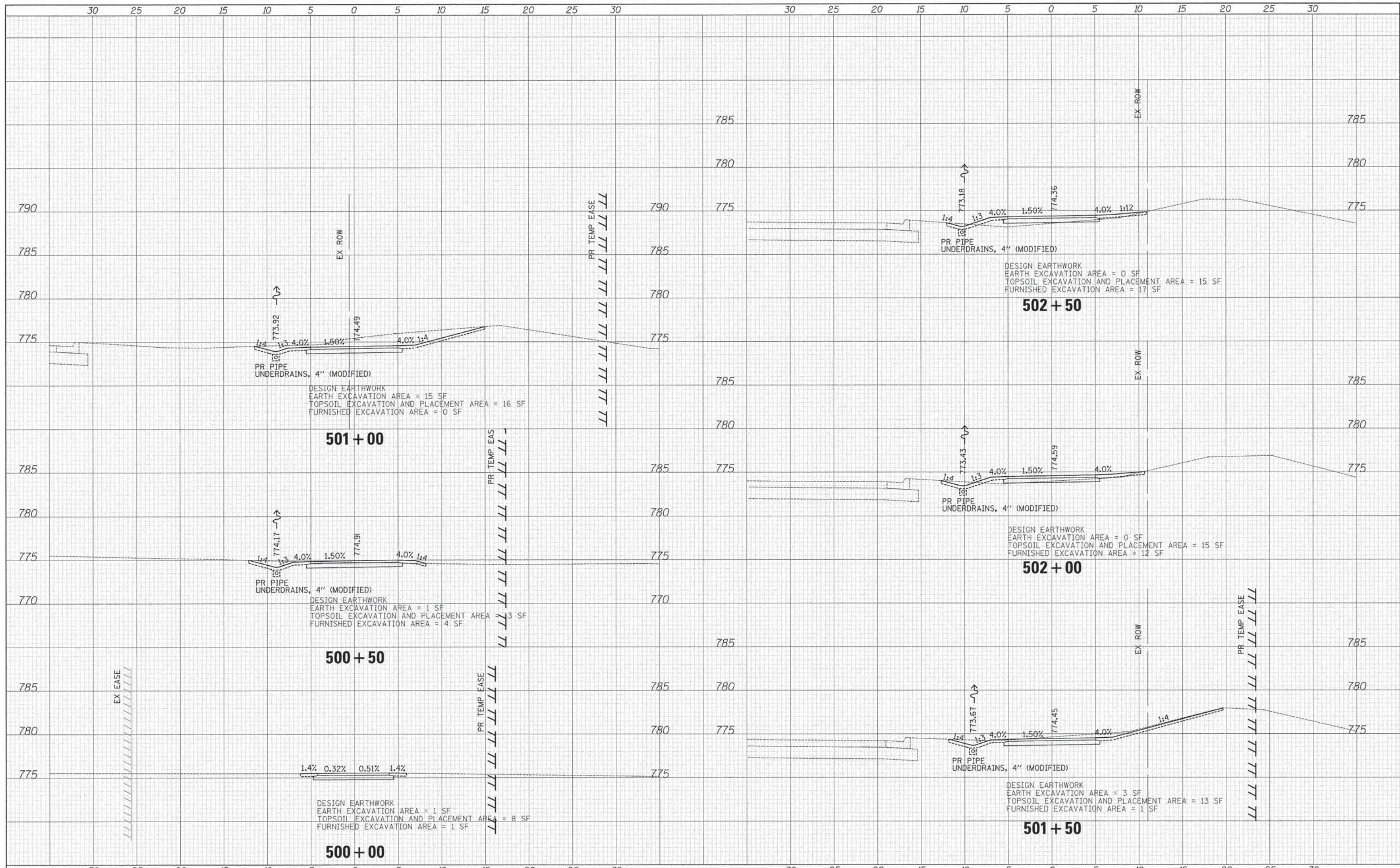
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 PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO.: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO.: \_\_\_\_\_



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



**CIVILTECH**  
 450 E Devon Ave, Suite 300  
 Itasca, Illinois 60143  
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 www.civiltechinc.com

DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



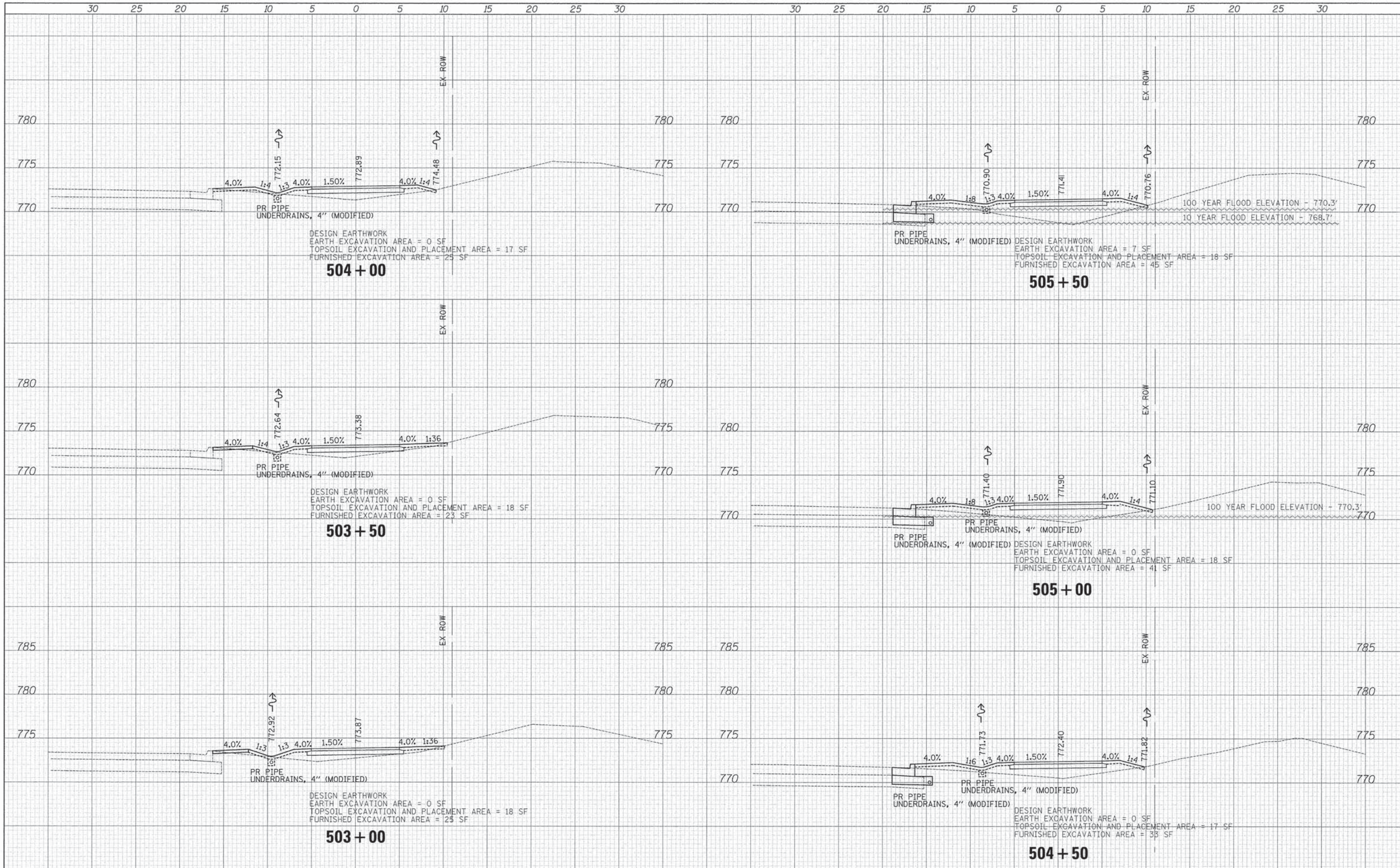
**CROSS SECTIONS- WASHINGTON STREET**

SHEET NO. 1 OF 11 SHEETS STA. 500+00 TO STA. 502+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	59
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS- WASHINGTON STREET**

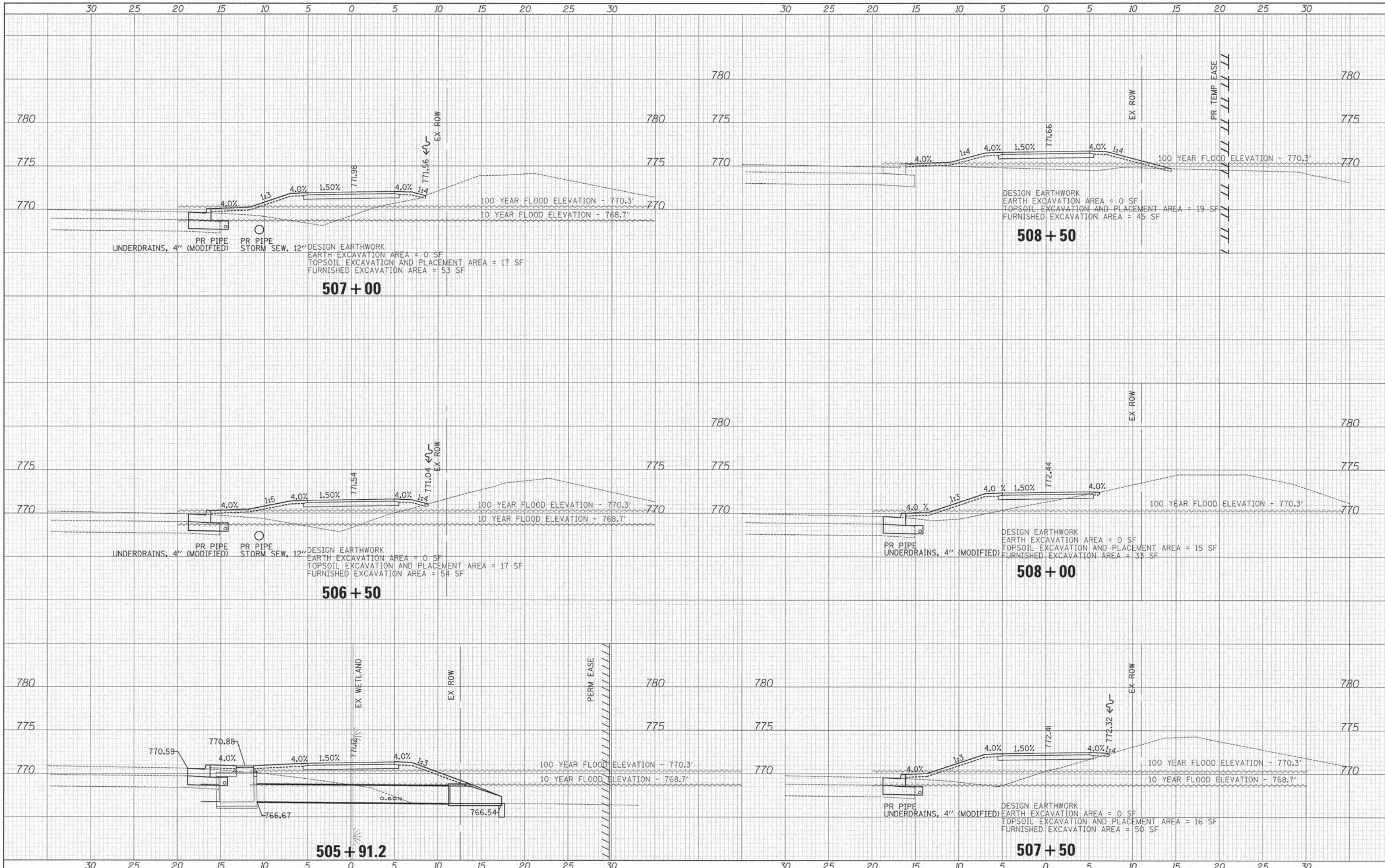
SHEET NO. 2 OF 11 SHEETS STA. 503+00 TO STA. 505+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	60
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

CONTRACT # 61A40

DATE	
BY	
FINAL SURVEY	
PLOTTED	
DATE	
NO. OF PLATE	
AREAS CHECKED	

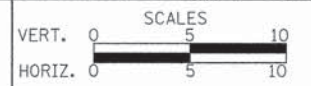
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
DATE	
NO. OF PLATE	
AREAS CHECKED	



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DESIGNED -	JRR	REVISED -
DRAWN -	JRR	REVISED -
CHECKED -	RTM	REVISED -
DATE -	03/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



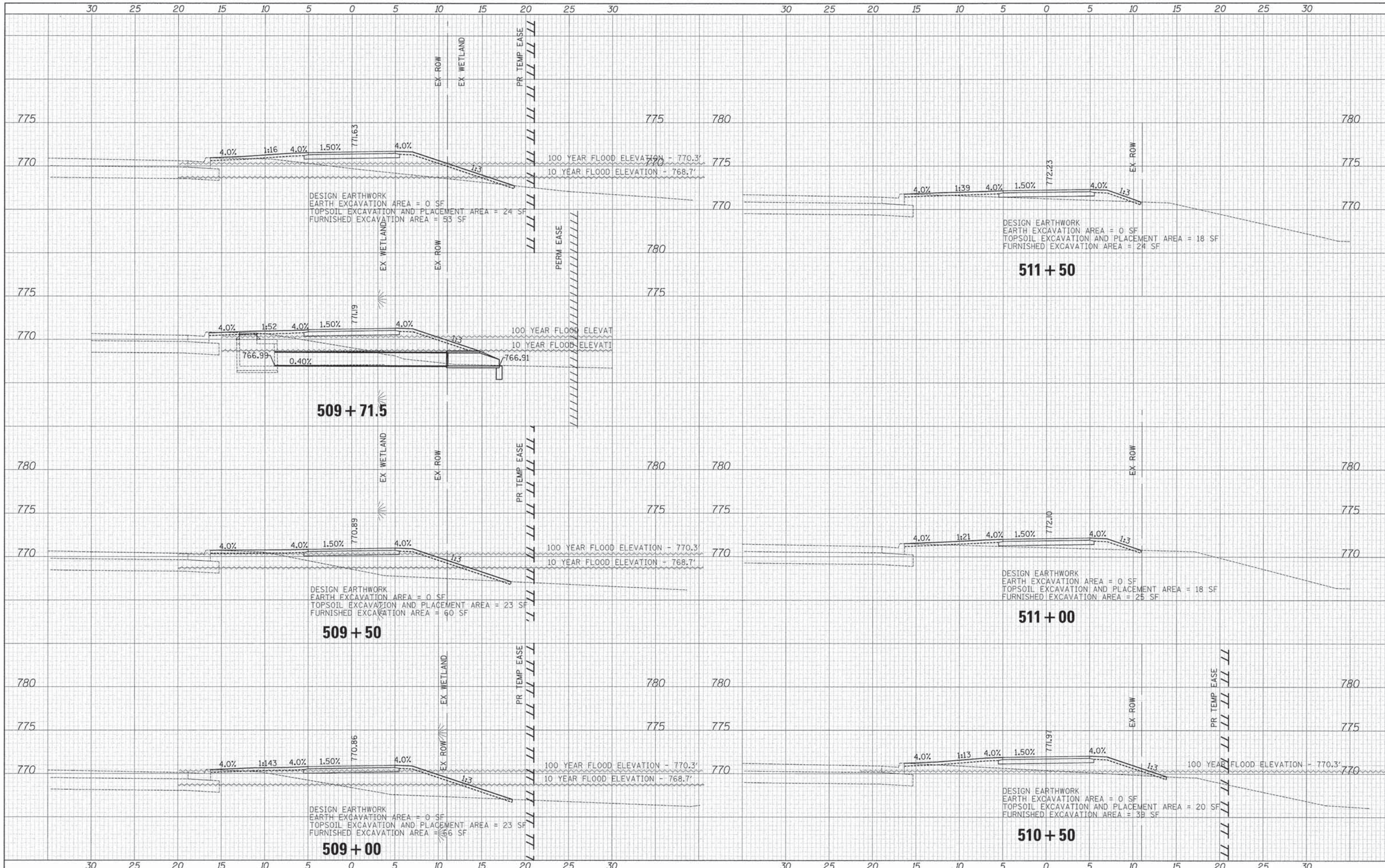
**CROSS SECTIONS- WASHINGTON STREET**

SHEET NO. 3 OF 11 SHEETS STA. 505+80.15 TO STA. 508+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	61
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NO. AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NO. AREAS CHECKED	



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DESIGNED -	JRR	REVISED -
DRAWN -	JRR	REVISED -
CHECKED -	RTM	REVISED -
DATE -	03/24/2014	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



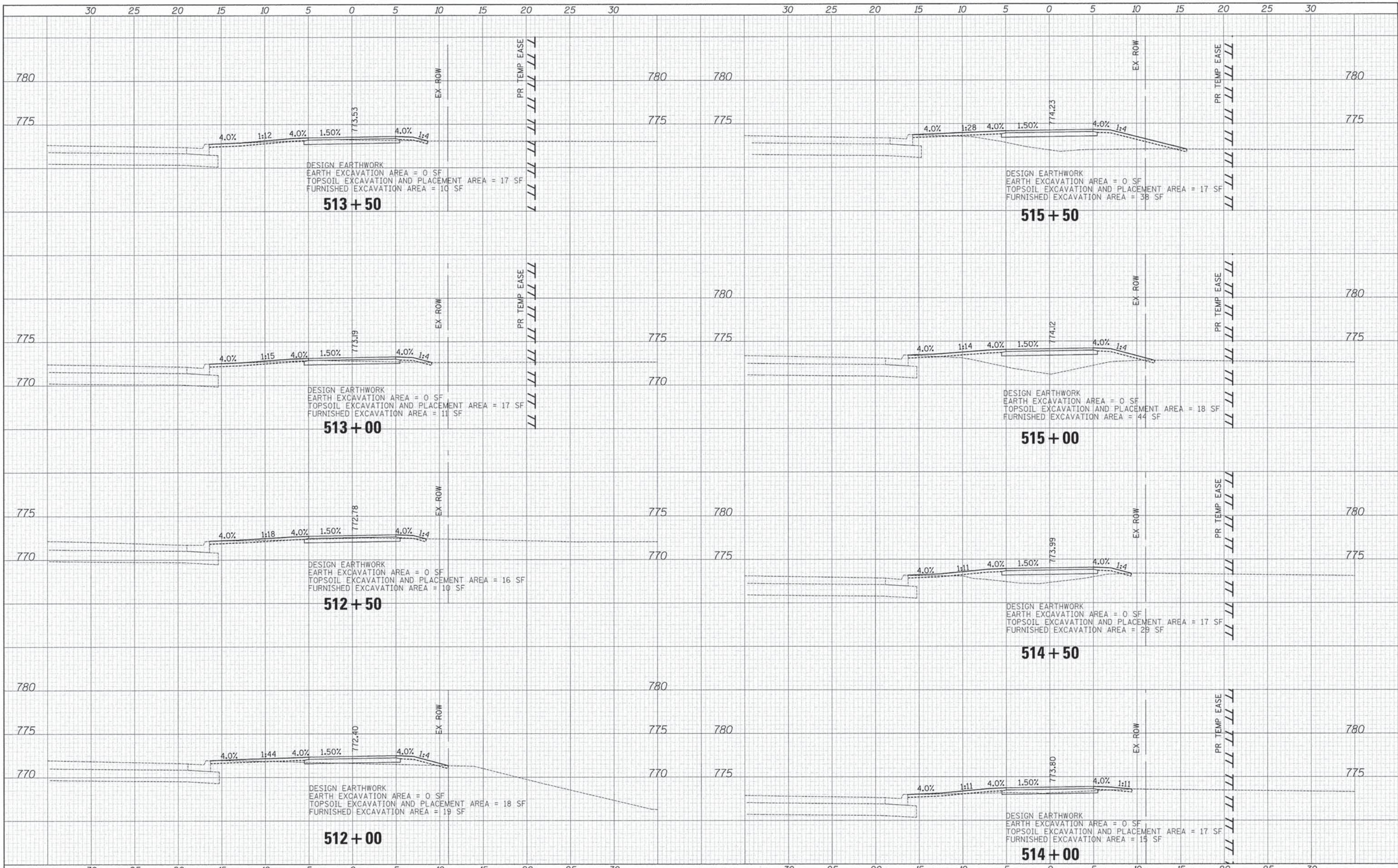
**CROSS SECTIONS- WASHINGTON STREET**

SHEET NO. 4 OF 11 SHEETS STA. 509+00 TO STA. 511+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	62
CONTRACT # 61440				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**CIVILTECH**  
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DESIGNED - JRR	REVISED -
DRAWN - JRR	REVISED -
CHECKED - RTM	REVISED -
DATE - 03/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS- WASHINGTON STREET**

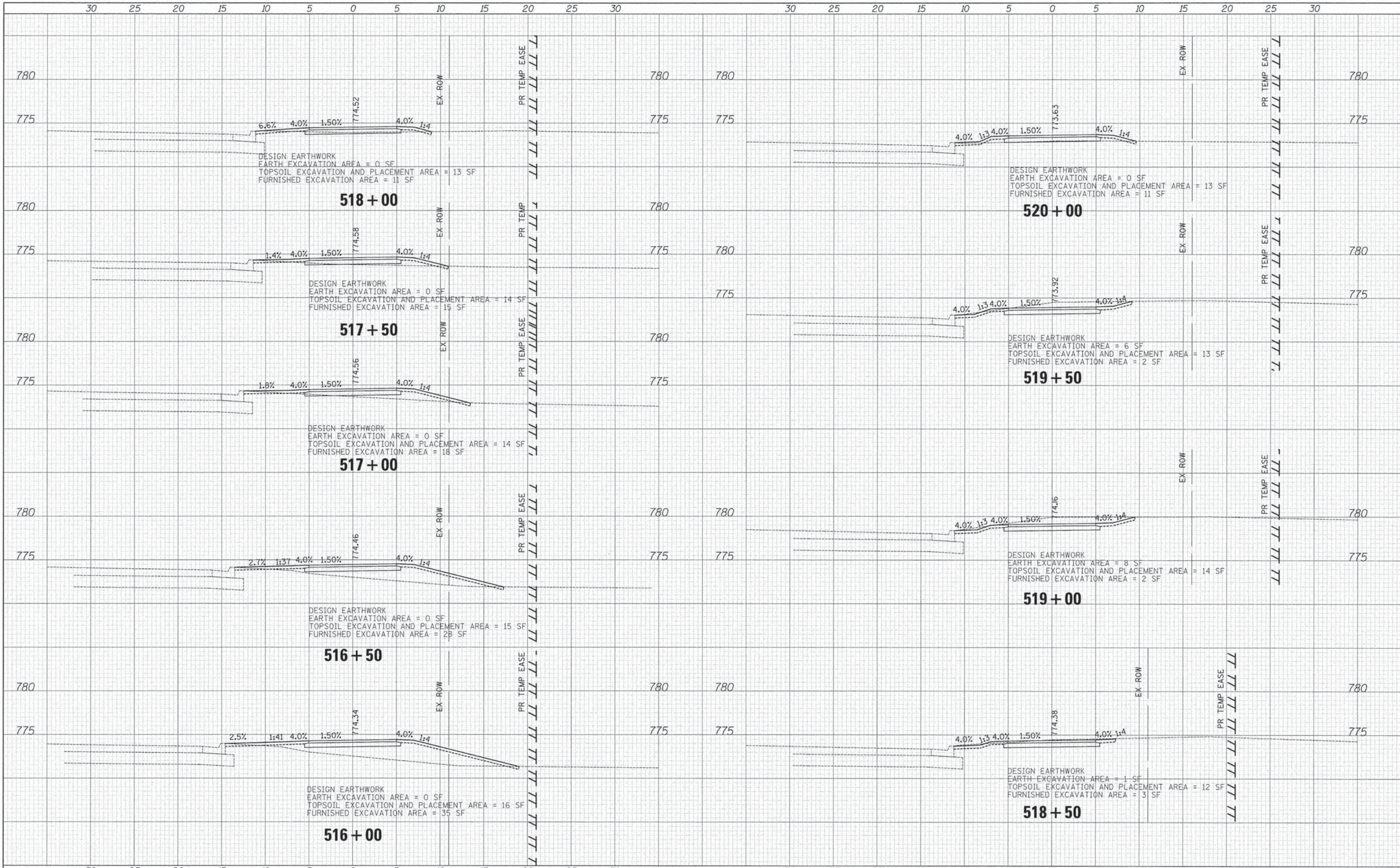
SHEET NO. 5 OF 11 SHEETS STA. 511+50 TO STA. 515+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	63
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
INTEGRATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
INTEGRATE	
AREAS CHECKED	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS- WASHINGTON STREET**

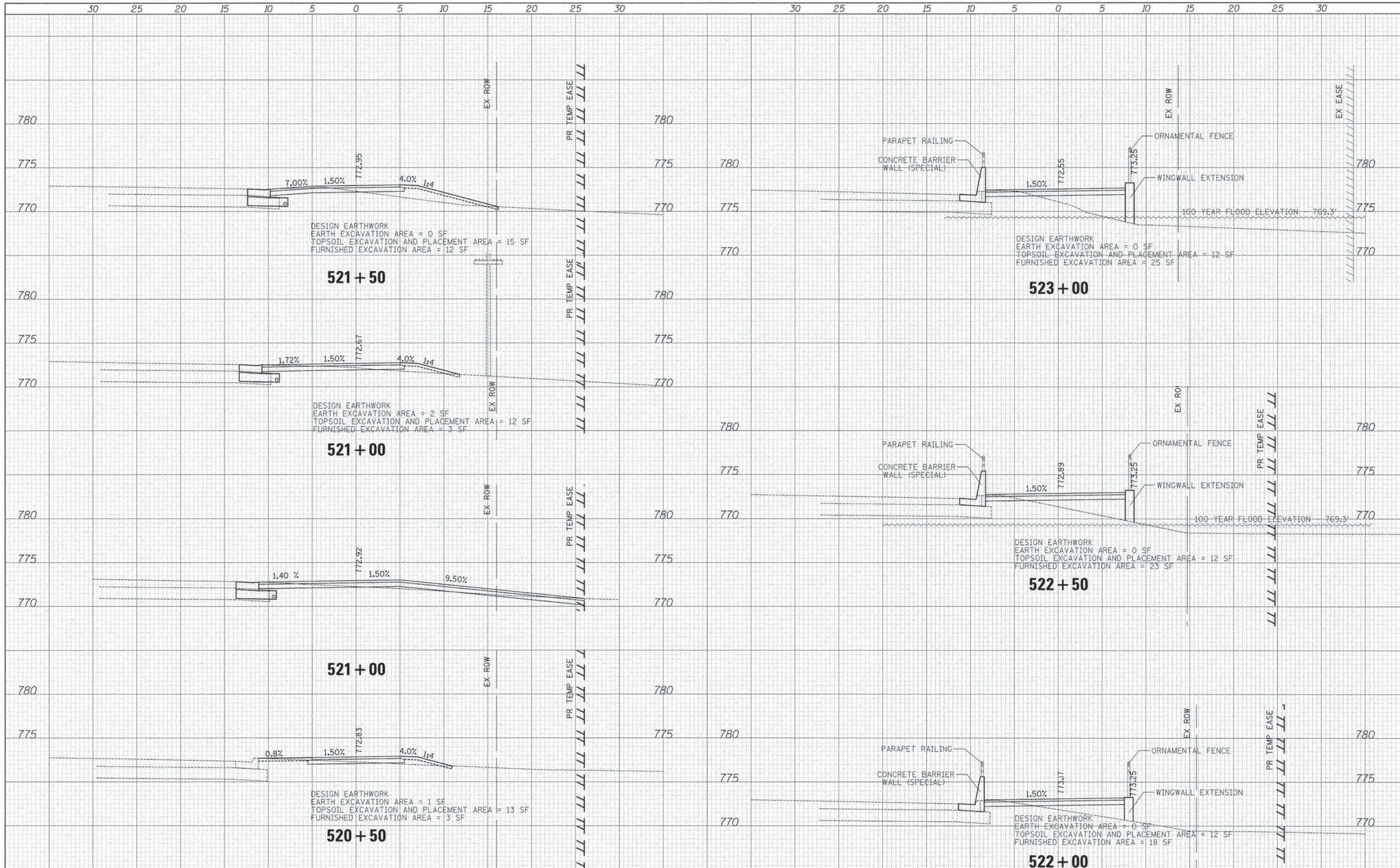
SHEET NO. 6 OF 11 SHEETS STA. 516+00 TO STA. 520+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	64
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

CONTRACT # 61A40

DATE	
BY	
FINN SURVEY	
NO. 1	
NO. 2	
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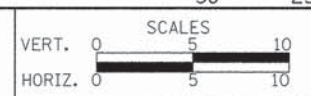
DATE	
BY	
ORIGINAL SURVEY	
NO. 1	
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NO. 49	
NO. 50	



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

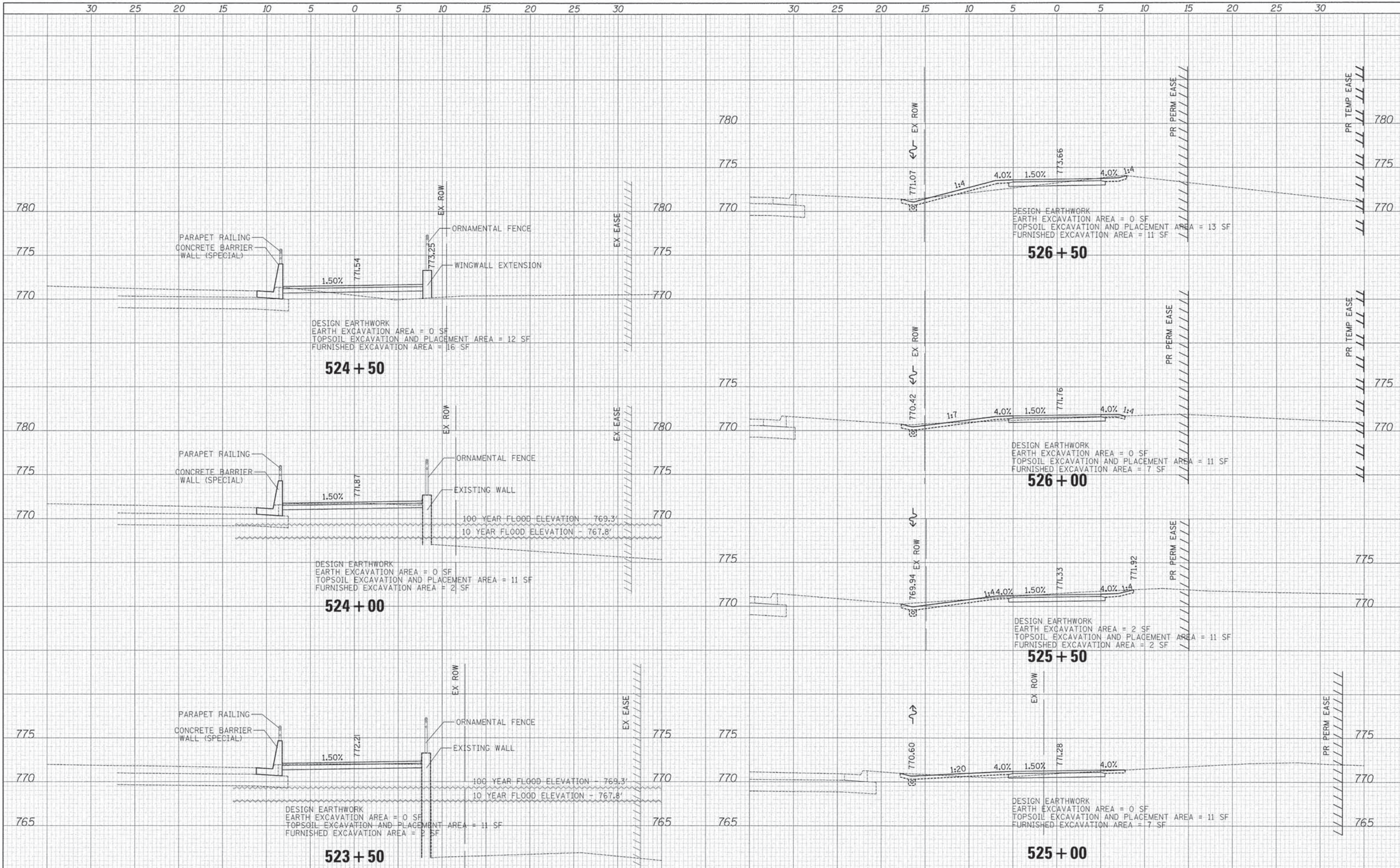


**CROSS SECTIONS- WASHINGTON STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	65
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
DATE	
NO. OF SHEETS	
AREAS CHECKED	

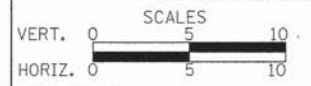
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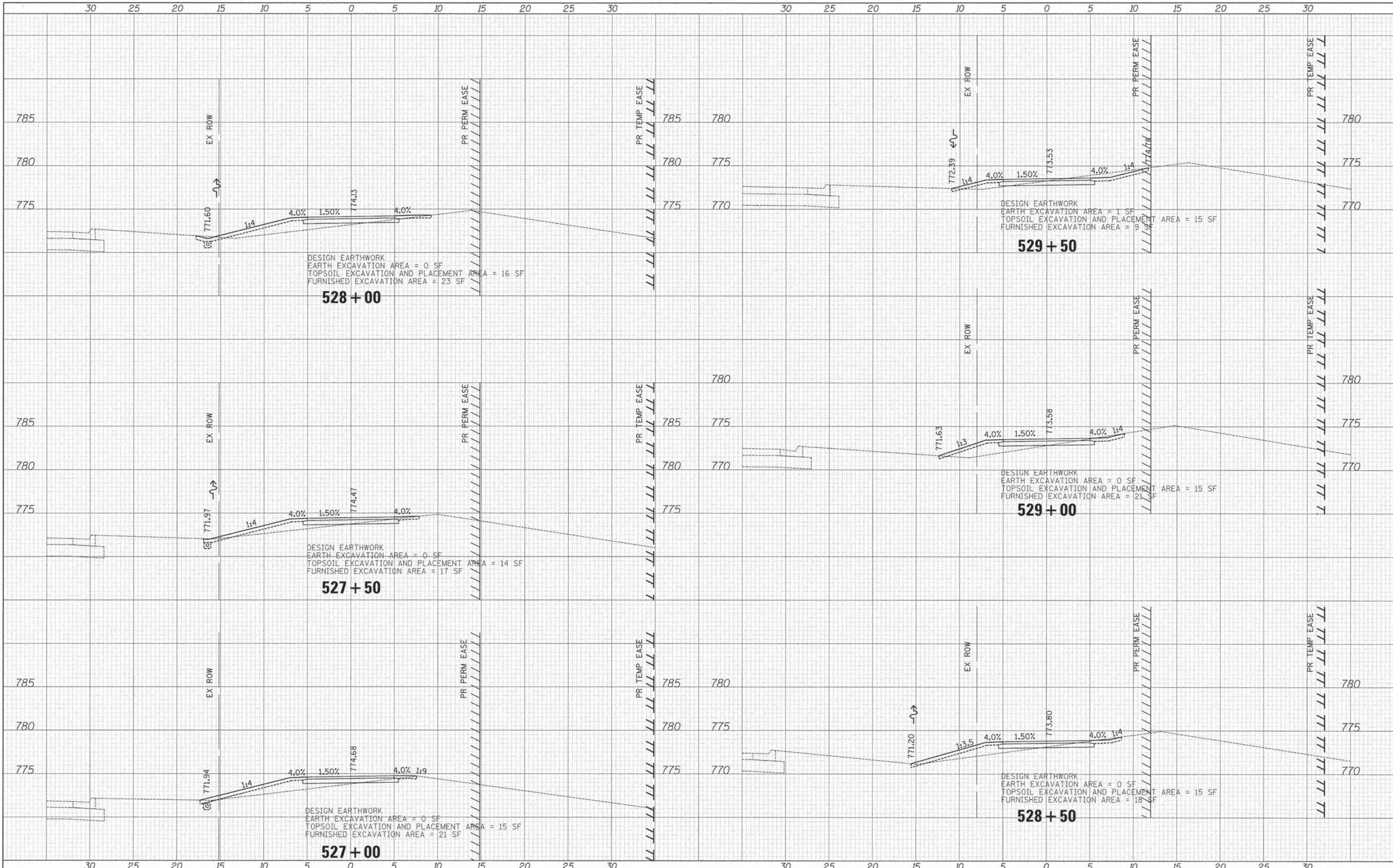
**CROSS SECTIONS- WASHINGTON STREET**

SHEET NO. 8 OF 11 SHEETS STA. 523+50 TO STA. 526+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	66
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
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NOTE BOOK	
AREAS CHECKED	

DATE	
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**STATE OF ILLINOIS  
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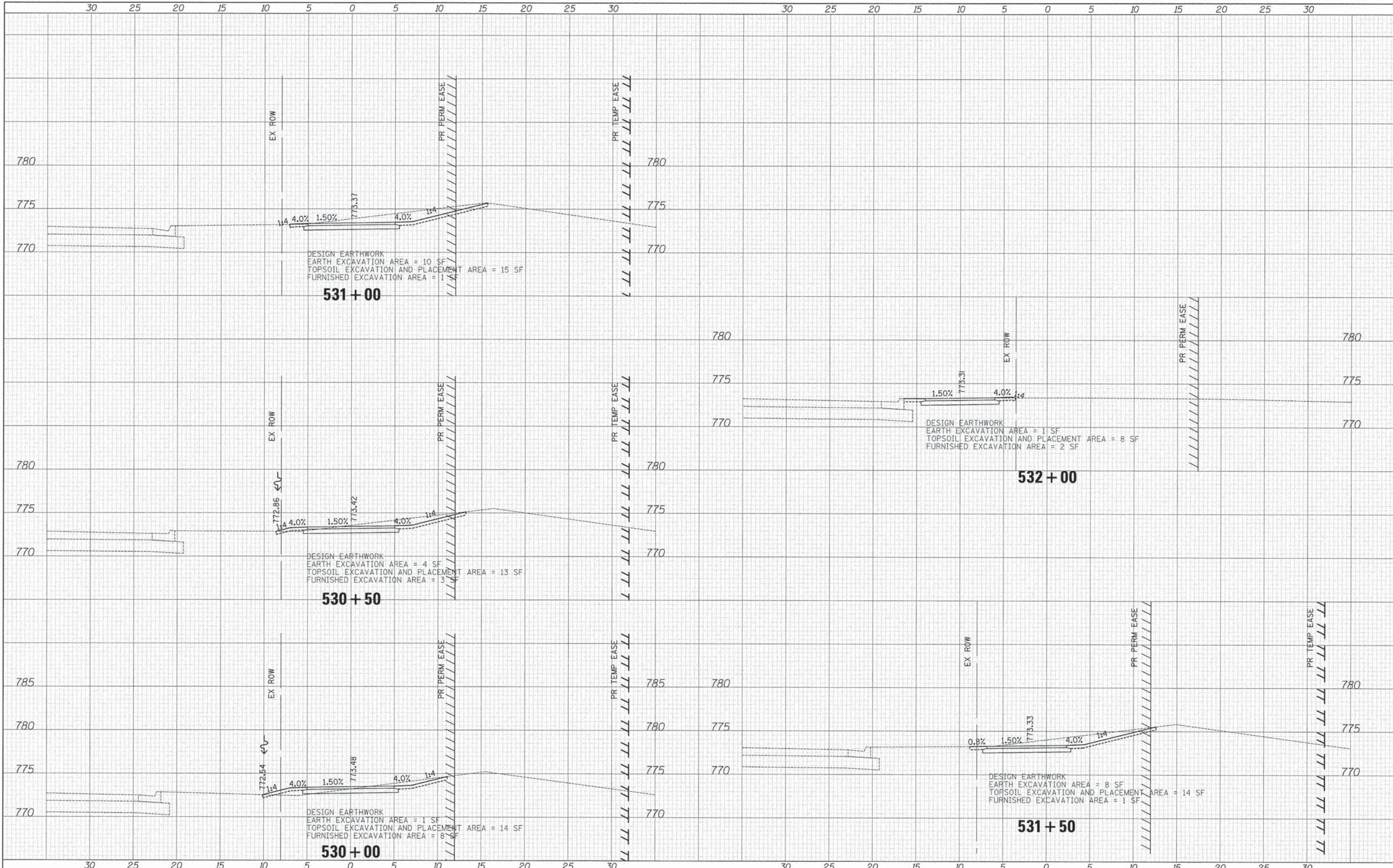
**CROSS SECTIONS- WASHINGTON STREET**

SHEET NO. 9 OF 11 SHEETS STA. 527+00 TO STA. 529+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	67
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
NOTED	
AREAS CHECKED	
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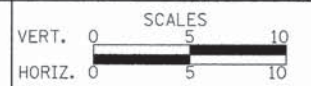
DATE	
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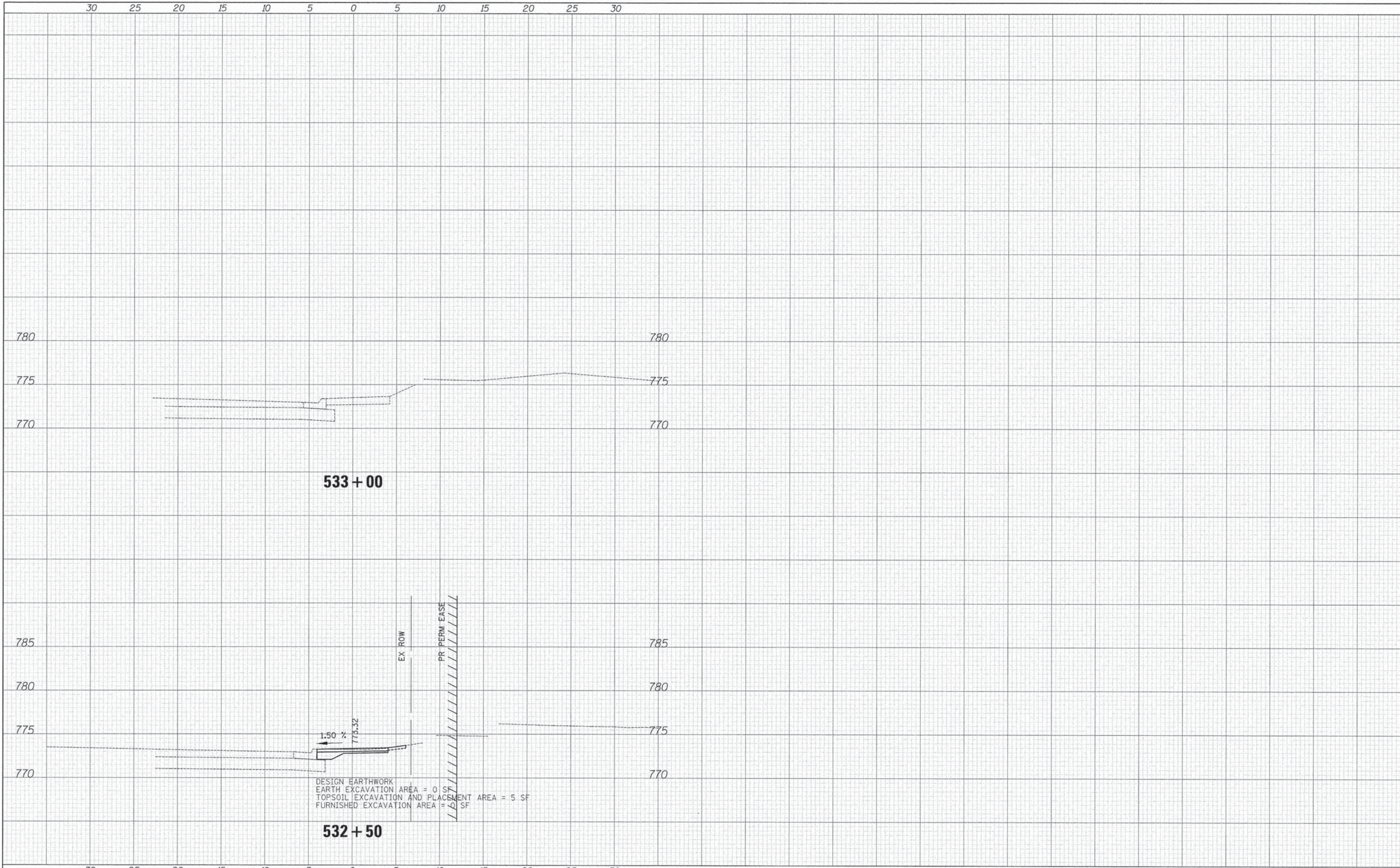
**CROSS SECTIONS- WASHINGTON STREET**

SHEET NO. 10 OF 11 SHEETS STA. 530+00 TO STA. 532+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	68
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
DATE	
AREAS CHECKED	
NO.	



**533 + 00**

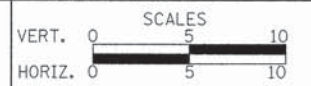
**532 + 50**

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 0 SF  
 TOPSOIL EXCAVATION AND PLACEMENT AREA = 5 SF  
 FURNISHED EXCAVATION AREA = 0 SF

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**CROSS SECTIONS- WASHINGTON STREET**

SHEET NO. 11 OF 11 SHEETS STA. 532+50 TO STA. 533+52.92

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	09-00135-11-BT	LAKE	69	69
CONTRACT # 61A40				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				