

**PROPOSED
HIGHWAY PLANS**

F.A.P. 303: IL ROUTE 173

SECTION: 134-N-1

AT TIFFANY ROAD

PROJECT NO.: HSIP-0303(055)

INTERSECTION RECONSTRUCTION

LAKE COUNTY

C-91-664-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60L28	D-91-664-10 #62+3=65	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED WITHIN THE VILLAGE OF ANTIOCH

TRAFFIC DATA

IL ROUTE 173

2009 ADT=14,100

POSTED SPEED LIMIT=40 MPH

DESIGN SPEED LIMIT=45 MPH

TIFFANY ROAD

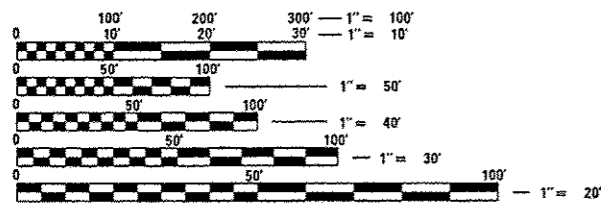
2009 ADT=7,200

POSTED SPEED LIMIT=35 MPH

DESIGN SPEED LIMIT=35 MPH

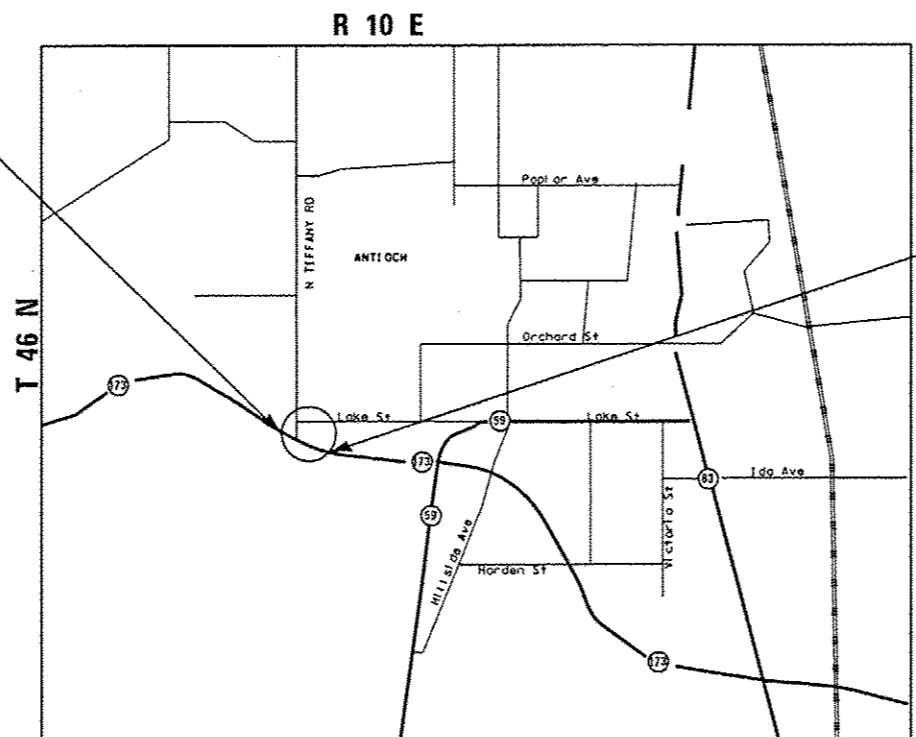
BEGIN PROJECT
IL ROUTE 173
STA. 999 + 08

END PROJECT
IL ROUTE 173
STA. 1009 + 09



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



LOCATION MAP

SCALE: NTS

ANTIOCH TOWNSHIP

GROSS LENGTH OF PROJECT = 1001 FT = 0.19 MILE
NET LENGTH OF PROJECT = 1001 FT = 0.19 MILE



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 1, 2013
John D. Baranzelli
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22, 2013
John D. Baranzelli P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2013
Omer Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

200 22ND Street, Suite 216, Lombard, IL 60148
630.706.0110 voice, 630.839.2566 fax
www.mps-il.com

MILLENNIA PROFESSIONAL SERVICES

Signed *Thomas V. Ngo*
Thomas V. Ngo, P.E. II Lic. No. 062-058379
Expires 11-30-2013
Date 2/1/2013
For Roadway Drawings

Signed *Jillyn K. O'Shea*
Jillyn K. O'Shea, P.E. II Lic. No. 062-054974
Expires 11-30-2013
Date Feb. 1, 2013
For Drainage Drawings

PROJECT MANAGER: ROBERT BORO (847) 705-4237
PROJECT ENGINEER: MICHELLE AQUINO (847) 705-4241

CONTRACT NO. 60L28

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
- 3-8 SUMMARY OF QUANTITIES
- 9-10 TYPICAL SECTIONS
- 11 ALIGNMENT, TIES, AND BENCHMARKS
- 12-13 REMOVAL PLAN
- 14-16 PLAN AND PROFILE SHEETS
- 17-19 SUGGESTED STAGES CONSTRUCTION AND TRAFFIC CONTROL PLAN
- 20-21 EROSION AND SEDIMENT CONTROL PLAN
- 22-23 DRAINAGE AND UTILITY PLAN
- 24 DRAINAGE DETAILS
- 25-26 PAVEMENT MARKING PLAN AND LANDSCAPING PLAN
- 27-30 PLAT OF HIGHWAY
- 31-36 TRAFFIC SIGNAL DISTRICT DETAILS
- 37-38 TRAFFIC SIGNAL PLANS
- 39 SIGN DETAILS
- 40-41 TRAFFIC SIGNAL INTERCONNECTION PLAN
- 42 DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m) (BD01)
- 43 DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15' (4.5m) (BD02)
- 44 OUTLET FOR CONCRETE CURB AND GUTTER (BD03)
- 45 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD22)
- 46 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD24)
- 47 BUTT JOINTS AND HMA TAPER (BD32)
- 47A FIRE HYDRANT TO BE MOVED (BD36)
- 48 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC10)
- 49 RAISED REFLECTIVE PAVEMENT MARKERS, SNOW PLOW RESISTANT (TC11)
- 49A PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC16)
- 50 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)
- 51 ARTERIAL ROAD INFORMATION SIGN (TC22)
- 51A DRIVEWAY ENTRANCE SIGNING (TC26)
- 52-54 POST MOUNTED FLASHING BEACON; POST MOUNTED FLASHING BEACON WITH PRECIPITATION DETECTOR (TS04)
- 55-59 CROSS SECTIONS - IL ROUTE 173
- 60-62 CROSS SECTIONS - TIFFANY ROAD

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES


1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND VILLAGE OF ANTIOCH.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
5. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. DRAINAGE ADJUSTMENTS OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
10. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
11. THE RESIDENT ENGINEER SHALL CONTACT DEBBIE HANLON, AREA TRAFFIC FIELD ENGINEER AT 847-438-2300 AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
13. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
14. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
15. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
16. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.
17. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
18. THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
19. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB & GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.
20. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.
21. THE COST OF MAKING ANY SEWER CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE INCIDENTAL TO THE COST OF THE NEW SEWER OR STRUCTURE.
22. ANY ABANDONED UTILITY OR SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE PLUGGED AS DIRECTED BY THE ENGINEER AND ABANDONED IN PLACE. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE CONTRACT

23. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE OF DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCIDENTAL IN THE COST OF THE CONTRACT.
24. CONTRACTOR SHALL MAINTAIN THE CONVEYANCE OF ALL FLOWS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS, CULVERTS, AND OTHER DRAINAGE FACILITIES. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME THAT THE PERMANENT CONNECTIONS WITH SEWERS OR CULVERTS ARE BUILT AND IN SERVICE. THIS WORK WILL BE INCLUDED IN THE COST OF THE CONTRACT.
25. IF NECESSARY, THE LOCATION AND DEPTH OF THE PROPOSED IMPROVEMENTS SHALL BE ADJUSTED BY THE ENGINEER AFTER THE EXISTING CONDITIONS HAVE BEEN DETERMINED BY FIELD INVESTIGATION.
26. IF CONFLICTS OCCUR AND RELOCATION OF THE NEW FACILITIES IS NOT FEASIBLE, THE CONTRACTOR SHALL WORK WITH THE ENGINEER TO MAKE ARRANGEMENTS WITH THE UTILITY COMPANIES TO HAVE THE AFFECTED UTILITIES PROTECTED OR RELOCATED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AS A RESULT OF ANY ADDITIONAL COSTS.
27. GUTTER OUTLET REMOVAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CURB AND GUTTER REMOVAL.
28. PRIOR TO WORKING IN AREAS APPROVED FOR OFFSITE BORROW AREAS, BY THE 2289 PROCEDURES AND OFFSITE WASTE AND USE AREAS BY THE BDE 2290 PROCEDURES (BWU AREAS), THE CONTRACTOR WILL NEED TO SUBMIT A BWU SITE WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON BWU WORK TECHNIQUES CAN BE FOUND IN SECTION 11.5.a and b. OF THE SWPPP. THE COST OF ALL MATERIAL AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT A BWU SITE WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 442201-03 CLASS C AND D PATCHES
- 482011-03 HMA SHLD, STRIPS/SHLDS, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 602001-02 CATCH BASIN TYPE A
- 602011-02 CATCH BASIN TYPE C
- 602301-03 INLET - TYPE A
- 602306-03 INLET - TYPE B
- 602401-03 MANHOLE TYPE A
- 602406-05 MANHOLE TYPE A 6' DIAMETER
- 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 604001-03 FRAME AND LIDS TYPE 1
- 604016-02 FRAME AND GRATE TYPE 4
- 604036-02 GRATE TYPE 8
- 604091-02 FRAME AND GRATE TYPE 24
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 701001-02 OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
- 701006-04 OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" (600MM) FROM PAVEMENT EDGE
- 701011-03 OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-03 OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
- 701106-02 OFF ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS FOR SPEEDS > OR = 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > OR = 45 MPH
- 701421-05 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > OR = 45 MPH TO 55 MPH
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-02 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-02 HANDHOLES
- 814006-02 DOUDLE HANDHOLES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SOUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877001-05 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-04 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

P:\2281\ME11807_Ver-Vor_Plan\CAD\DWG\03_IL173.at_Tiff_Rd\SHS\02-0160L28-shs-gannote.dgn
 2/28/2013 10:58:17 AM
 USER: jgannone



280 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8110 voice, 630.839.2566 fax
 www.mps-ll.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED	CJD	REVISED	
DRAWN	CJD	REVISED	
CHECKED	TVN	REVISED	
DATE	2/7/2013	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

INDEX OF SHEETS, LIST OF IDOT
HIGHWAY STANDARDS,
GENERAL NOTES & COMMITMENTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	2
CONTRACT NO. 60L28				

90% FED / 10% STATE

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE


CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				ROADWAY	TIFFANY RD TRAFFIC SIGNAL	INTERCONNECT	EMERGENCY VEHICLE PRE-EMPTION 100% VILLAGE
				0004	0021	0021	0021
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	18	18	-	-	-
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25			
20200100	EARTH EXCAVATION	CU YD	882.2	882.2			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	255.8	255.8			
20800150	TRENCH BACKFILL	CU YD	744.5	744.5			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	3430	3430			
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	67.5	67.5			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	67.5	67.5			
25100105	MULCH, METHOD 1	ACRE	0.75	0.75			
25100135	MULCH, METHOD 4	ACRE	0.75	0.75			
25100630	EROSION CONTROL BLANKET	SO YD	3315	3315			
28000305	TEMPORARY DITCH CHECKS	FOOT	36	36			
28000400	PERIMETER EROSION BARRIER	FOOT	1705	1705			
28000510	INLET FILTERS	EACH	27	27			
28100705	STONED DUMPED RIPRAP, CLASS A3	SO YD	6	6			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	2323.3	2323.3			
35501308	HOT-MIX ASPHALT BASE COURSE 6"	SO YD	365	365			
35501316	HOT-MIX ASPHALT BASE COURSE 8"	SO YD	430	430			
35501320	HOT-MIX ASPHALT BASE COURSE 9"	SO YD	1392	1392			
35600706	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"	SO YD	233	233			
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2.9	2.9			
40600300	AGGREGATE (PRIME COAT)	TON	14.5	14.5			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	8.4	8.4			
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	305	305			
40600895	CONSTRUCTING TEST STRIP	EACH	1	1			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SO YD	82	82			
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	32.8	32.8			
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	89	89			

URBAN

FILE NAME : P:\2011\ME11807_VerVar_Phil\CAD\000000.ILL173.ctb; User: Phil; Date: 2/7/2013 2:08:20 PM; Scale: 1/8"=1'-0"; Plot Date: 2/7/2013 2:08:20 PM; User Name: Phil; Millennium Professional Services

* SPECIALTY ITEM

Rev.



200 22ND Street, Suite 216, Lombard, IL 60148
 630.765.8110 voice, 630.839.2560 fax
 www.mps-ll.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TWN	REVISED -
DATE - 2/7/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

F.A.P. RTE. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEETS 62	SHEET NO. 3
CONTRACT NO. 60L28				

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

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

P:\2011\ME11807_VerVar_Phil\CAD\000000.ILL173.ctb; User: Phil; Date: 2/7/2013 2:08:20 PM; Scale: 1/8"=1'-0"; Plot Date: 2/7/2013 2:08:20 PM; User Name: Phil; Millennium Professional Services


90% FED. / 10% STATE

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				ROADWAY	TIFFANY RD TRAFFIC SIGNAL	INTERCONNECT	EMERGENCY VEHICLE PRE-EMPTION 100% VILLAGE
				0004	0021	0021	0021
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	711	711			
42001300	PROTECTIVE COAT	SO YD	1716	1716			
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	42	42			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	9227	9227			
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SO FT	953	953			
42400800	DETECTABLE WARNINGS	SOFT	63	63			
44000100	PAVEMENT REMOVAL	SO YD	220	220			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	5628	5628			
44000200	DRIVEWAY PAVEMENT REMOVAL	SOYD	686	686			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1491.5	1491.5			
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SO YD	195	195			
44004250	PAVED SHOULDER REMOVAL	SO YD	965	965			
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	180	180			
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	75	75			
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	206	206			
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	48	48			
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	330	330			
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	166	166			
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	360	360			
55100300	STORM SEWER REMOVAL 8"	FOOT	45	45			
55100500	STORM SEWER REMOVAL 12"	FOOT	585	585			
55100900	STORM SEWER REMOVAL 18"	FOOT	157	157			
56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	1			
60107600	PIPE UNDERDRAINS 4"	FOOT	508	508			
60200405	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 4 FRAME AND GRATE	EACH	9	9			
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1			
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	5	5			
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2	2			

* SPECIALTY ITEM

FILE NAME : P:\2011\ME11007_Ver.Ver_PNT\CADD\W002_IL173.et.TIFF_Rd\Shets\03-DIG\28-ent-S00.dgn
 PLOT SCALE : 2.0000 / IN.
 USER NAME : Millennia Professional Services



200 225D Street, Suite 216, Lombard, IL 60148
 630.785.8118 voice, 630.839.2566 fax
 www.mps-ill.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED	CJD	REVISED	
DRAWN	CJD	REVISED	
CHECKED	TVN	REVISED	
DATE	2/7/2013	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	4
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60L28	

SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

P:\2011\ME11007_Ver.Ver_PNT\CADD\W002_IL173.et.TIFF_Rd\Shets\03-DIG\28-ent-S00.dgn

SUMMARY OF QUANTITIES

90% FED. / 10% STATE

CONSTRUCTION TYPE CODE

URBAN

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				ROADWAY 0004	TIFFANY RD TRAFFIC SIGNAL 0021	INTERCONNECT 0021	EMERGENCY VEHICLE PRE-EMPTION 100% VILLAGE 0021
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	5	5			
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	2	2			
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	1	1			
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	1	1			
60234200	INLETS, TYPE A, TYPE I FRAME, OPEN LID	EACH	1	1			
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	7	7			
60500040	REMOVING MANHOLES	EACH	1	1			
60500050	REMOVING CATCH BASINS	EACH	1	1			
60500060	REMOVING INLETS	EACH	4	4			
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	1.7	1.7			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1216	1216			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1747	1747			
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	174	174			
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	413	413			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT	EACH	2	2			
63200310	GUARDRAIL REMOVAL	FOOT	536	536			
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	3000	3000			
• 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1			
• 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5			
67100100	MOBILIZATION	L SUM	1	1			
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	5	5			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1664	1664			
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	220	220			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10838	10838			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1832	1832			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	282	282			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	226	226			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	9244	9244			

P:\2011\ME11807_Ver_Ver_Phil\CAD\W003_IL173.ctb, Trf, Rd, Sh, 03-0160L28-sh-500.dgn
 08/08/2011 10:50:00 AM
 User: phil
 Millennia Professional Services

29

• SPECIALTY ITEM

Rev.



200 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8114 voice, 630.839.3566 fax
 www.mps-ill.com

MILLENNIA PROFESSIONAL SERVICES

DESIGNED	CJD	REVISED	
DRAWN	CJD	REVISED	
CHECKED	TYN	REVISED	
DATE	2/7/2013	REVISED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
 AT TIFFANY ROAD**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L28	


P:\2011\ME11807_Ver_Ver_Phil\CAD\W003_IL173.ctb, Trf, Rd, Sh, 03-0160L28-sh-500.dgn

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	TIFFANY RD TRAFFIC SIGNAL	INTERCONNECT	EMERGENCY VEHICLE PRE-EMPTION 100% VILLAGE
				0004	0021	0021	0021
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	72	72			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	277	277			
72000100	SIGN PANEL - TYPE 1	SO FT	25	25			
72000200	SIGN PANEL - TYPE 2	SO FT	57.5		57.5		
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1			
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	3	3			
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1			
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	2	2			
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	27	27			
73000100	WOOD SIGN SUPPORT	FOOT	30	30			
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	364	364			
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6464	6464			
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1307	1307			
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	141	141			
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	113	113			
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	147	147			
78300100	PAVEMENT MARKING REMOVAL	SO FT	1771	1771			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	113	113			
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1572		625	947	
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	41		41		
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	55		55		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	251		251		
81400100	HANDHOLE	EACH	9		6	3	
81400200	HEAVY-DUTY HANDHOLE	EACH	2		2		
81400300	DOUBLE HANDHOLE	EACH	1		1		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1			1	
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1			1	
85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1		1		

FILE NAME = P:\2011\ME11007_Ver_Ver_PN1\CAD\DWG\03_IL173.ctb; Title: 80500020-0180L28.sht; S00.dgn
 PLOT SCALE = 2.0000 / 1 IN.
 User: Millennium Professional Services

29

• SPECIALTY ITEM



249 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8118 voice, 630.839.2566 fax
 www.mps-ill.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/7/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	6
CONTRACT NO. 60L28				

SUMMARY OF QUANTITIES

90% FED. / 10% STATE

URBAN

CONSTRUCTION TYPE CODE

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				ROADWAY 0004	TIFFANY RD TRAFFIC SIGNAL 0021	INTERCONNECT 0021	EMERGENCY VEHICLE PRE-EMPTION 100% VILLAGE 0021
86000100	MASTER CONTROLLER	EACH	1			1	
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1		1		
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1272			1272	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1219		1219		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	388				388
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	972		972		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	569		569		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	441		441		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110		110		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	229		229		
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1		1		
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2		
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1		1		
87702208	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 26 FT.	EACH	1		1		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12		
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4		
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10		10		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	12		12		
87900200	DRILL EXISTING HANDHOLE	EACH	1			1	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3		3		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2		
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2		
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6		6		
88500100	INDUCTIVE LOOP DETECTOR	EACH	5		5		
88600100	DETECTOR LOOP, TYPE 1	FOOT	425		425		
88700200	LIGHT DETECTOR	EACH	3				3

• SPECIALTY ITEM

FILE NAME: P:\2011\ME11007_VerVer_P\11\CA00\W003_IL173.ctb; USER: JLT; PLOT SCALE: 1/8"=1'-0"; PLOT DATE: 2/7/2013 10:50:49 AM; MILLENNIA PROFESSIONAL SERVICES



260 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8116 voice, 630.839.2566 fax
 www.mpsr-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/7/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEETS 62	SHEET NO. 7
CONTRACT NO. 60L28			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

90% FED. / 10% STATE


SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN			
				ROADWAY	TIFFANY RD TRAFFIC SIGNAL	INTERCONNECT	EMERGENCY VEHICLE PRE-EMPTION 100% VILLAGE
				0004	0021	0021	0021
• 88700300	LIGHT DETECTOR AMPLIFIER	EACH	3				3
• 89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	3	3			
• X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	388				388
• X0326865	POST MOUNTED FLASHING BEACON INSTALLATION	EACH	2	2			
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	6	6			
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	5	5			
X4023000	TEMPORARY ACCESS (ROAD)	EACH	1	1			
Δ X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	220	220			
Δ X5538800	STORM SEWERS TO BE CLEANED 48"	FOOT	23	23			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1272			1272	
XX005463	ADJUST FIRE HYDRANT WITH AUXILIARY VALVE	EACH	1	1			
Δ Z0005300	BOX CULVERTS TO BE CLEANED	EACH	1	1			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Δ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	1			
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	78	78			
* Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	2		1	1	
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	111	111			
Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	508	508			
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	118	118			
Z0062450	SAWING PAVEMENT (FULL DEPTH)	FOOT	2438	2438			

FILE NAME: P:\2011\ME11007_Ver_Ver_P\11\CAD\DWG\03_IL173.ctb; PLOT SCALE: 20000 / 1" = 1000' (Professional Services); USER NAME: N:\millsie Professional Services

166
 Δ NON PART (100% STATE)

Δ 100% STATE (NP)

• SPECIALTY ITEM



200 22ND Street, Suite 216, Lombard, IL 60148
 630.795.8118 voice, 630.839.2566 fax
 www.mps-ill.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED	CJD	REVISED	
DRAWN	CJD	REVISED	
CHECKED	TVN	REVISED	
DATE	2/7/2013	REVISED	

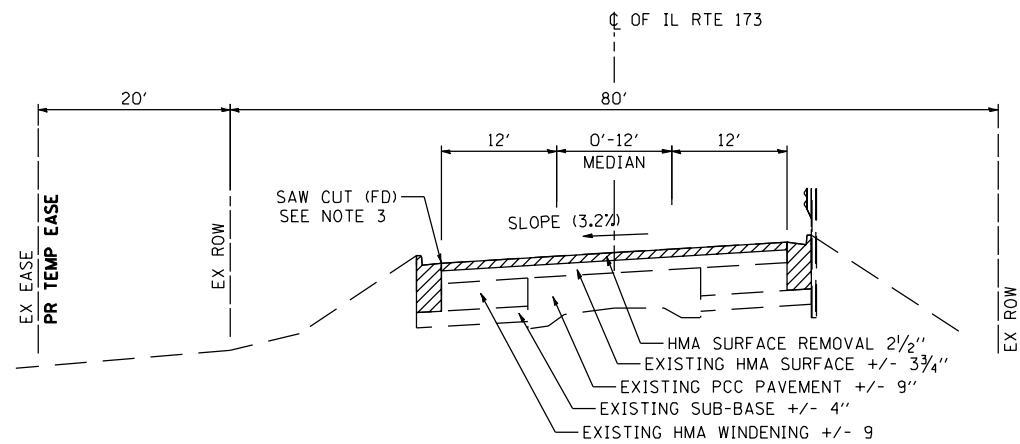
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

SUMMARY OF QUANTITIES

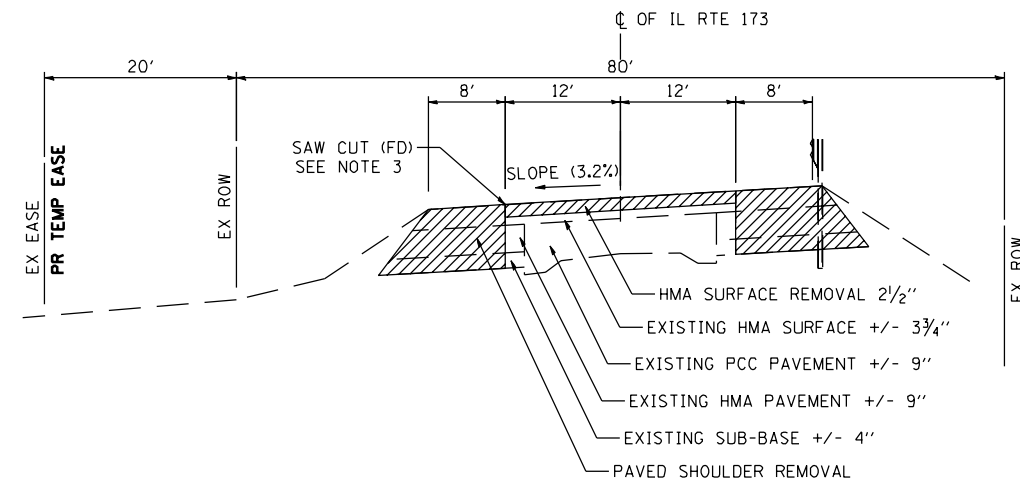
SCALE: SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	8
CONTRACT NO. 60L28				



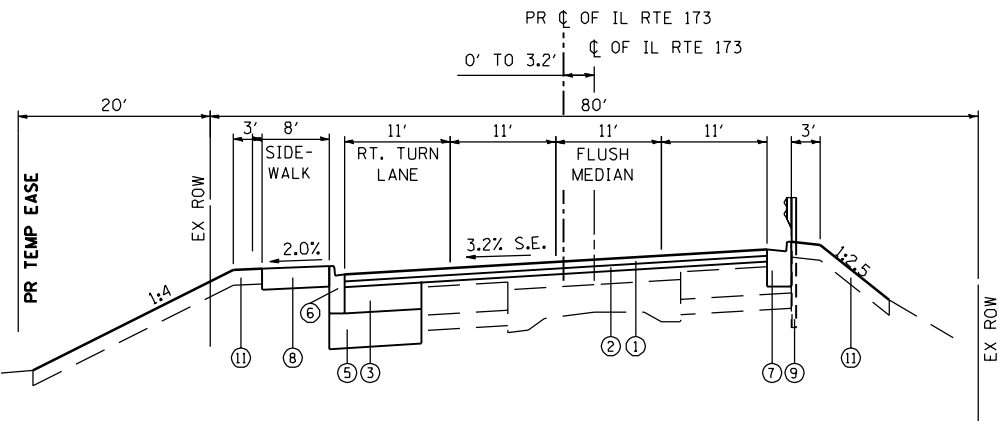
EXISTING TYPICAL SECTION ILL. ROUTE 173

STA 999+08 TO STA 1002+48
• SUPERELEVATED SECTIONS



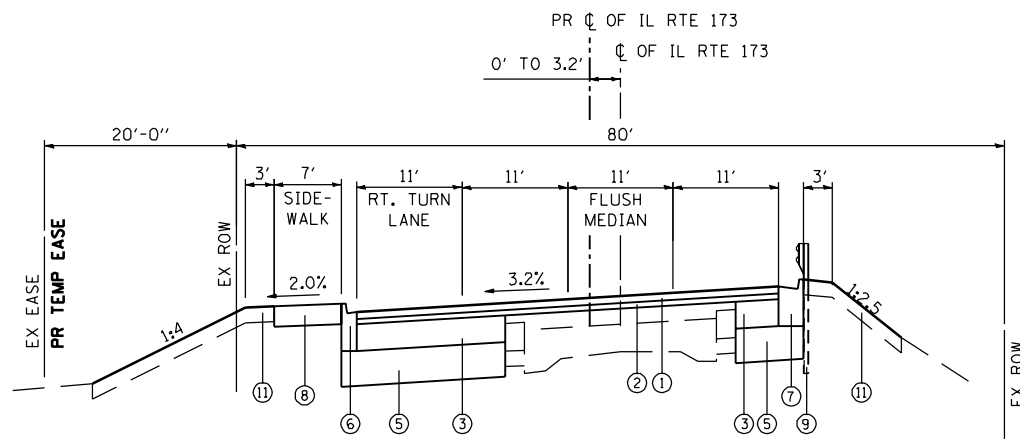
EXISTING TYPICAL SECTION ILL. ROUTE 173

STA 1002+48 TO STA 1007+04
• SUPERELEVATED SECTION



PROPOSED TYPICAL SECTION ILL. ROUTE 173

STA 999+08 TO STA 1002+48
• SUPERELEVATED SECTIONS



PROPOSED TYPICAL SECTION ILL. ROUTE 173

STA 1002+48 TO STA 1007+04
• SUPERELEVATED SECTION

LEGEND

- ① PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ② PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ③ PROPOSED HOT-MIX ASPHALT BASE COURSE, 9"
- ④ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- ⑤ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑥ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑦ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑧ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SEE NOTE 2)
- ⑨ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- ⑪ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

REMOVAL

NOTES

1. CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.
2. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 8" ON TIFFANY ROAD FROM STA 12+29.1 RT TO STA 13+66.9 RT.
3. SAW CUT FULL DEPTH ALONG EDGE OF WIDENING AREAS
4. 4" LONGITUDINAL PIPE UNDERDRAINS SHALL BE INSTALLED UNDERNEATH THE OUT SIDE EDGE OF PROPOSED RIGHT TURN LANE ON IL RTE 173 STA. 1000+50 TO 1002+00 AND STA. 1004+00 TO 1006+00.

HMA MIXTURES REQUIREMENT	
MIXTURE USES	AIR VOIDS @ Ndes
PAVEMENT WIDENING/RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5 mm)	4% @ 90 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (IL 9.5mm)	3.5% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, N90 (IL-19 mm)	4% @ 90 GYR.
DRIVEWAYS	
HMA SURFACE COURSE, MIX C, N50 (IL 9.5mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm); PE-6", CE-8"	4% @ 50 GYR.
PATCHING	
CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.

MIXTURE NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD/IN.
2. 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 "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME : P:\2011\ME11007_VerVar-Ph1\CADD\W003_IL173.et.Tiff_Rd\Shs\0160L28-sht-typical.dgn
 USER : JIN
 MILLENNIA PROFESSIONAL SERVICES



200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

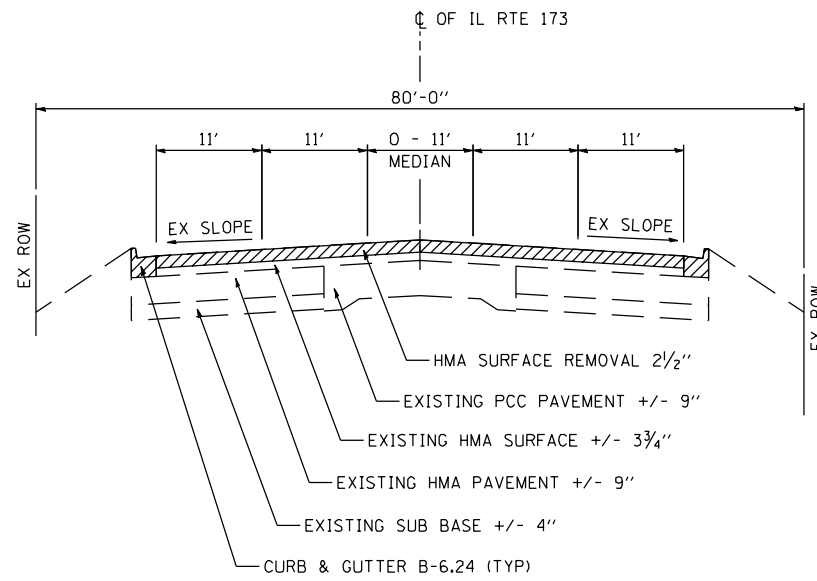
DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/4/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

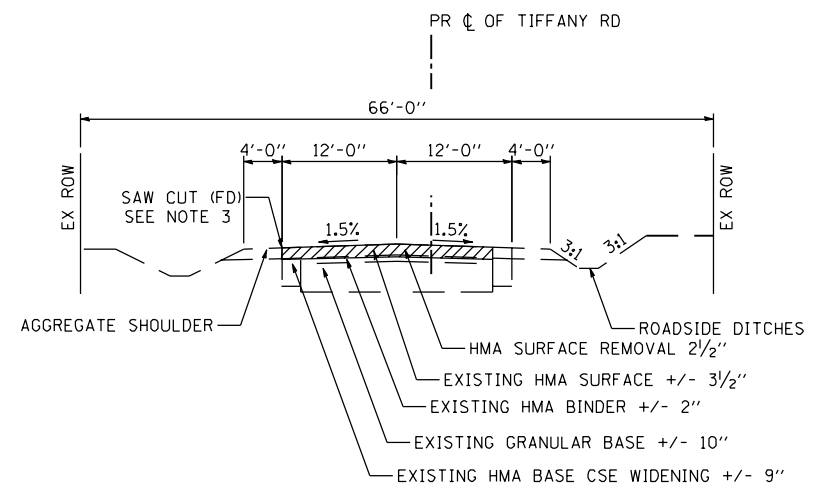
**IL ROUTE 173
AT TIFFANY ROAD**
 SCALE: NTS SHEET NO. 1 OF 2 SHEETS

**TYPICAL SECTIONS
IL RTE 173**
 STA. TO STA.

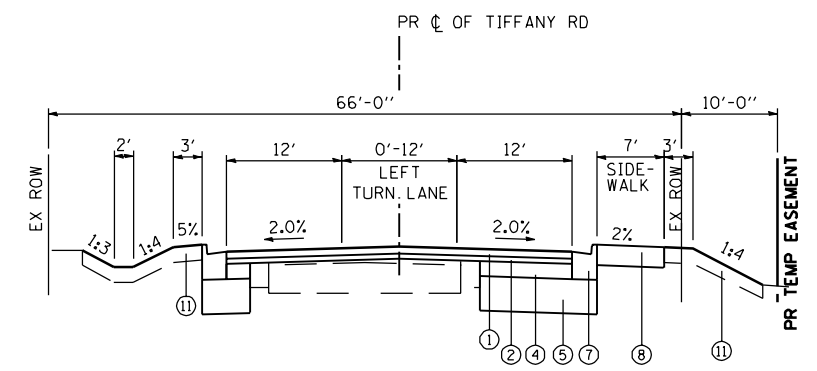
F.A.P. RTE. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEETS 62	SHEET NO. 9
CONTRACT NO. 60L28				



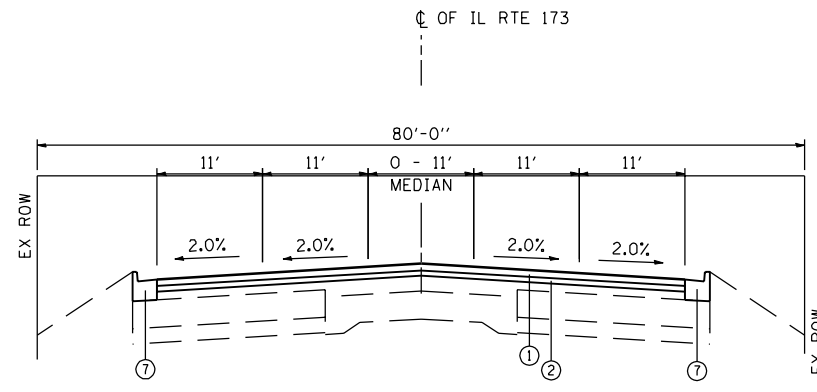
**EXISTING TYPICAL SECTION
ILL. ROUTE 173**
STA 1007+04 TO STA 1009+09



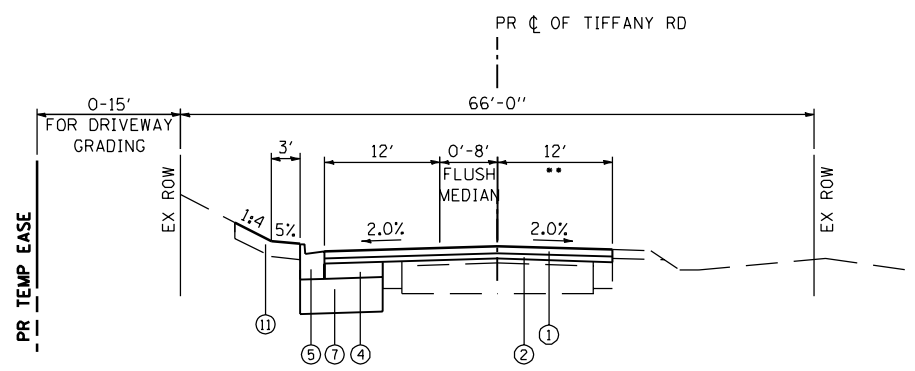
**EXISTING TYPICAL SECTION
TIFFANY ROAD**
STA 10+00 TO STA 16+34



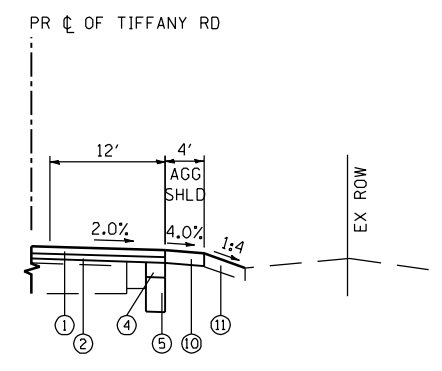
**PROPOSED TYPICAL SECTION
TIFFANY ROAD**
STA 10+00 TO STA 14+00



**PROPOSED TYPICAL SECTION
ILL. ROUTE 173**
STA 1007+04 TO STA 1009+09



**PROPOSED TYPICAL SECTION
TIFFANY ROAD**
STA 14+00 TO STA 16+34



•• STA 14+00 TO STA 15+16

LEGEND

- ① PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ② PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ③ PROPOSED HOT-MIX ASPHALT BASE COURSE, 9"
- ④ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- ⑤ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑥ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑦ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑧ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SEE NOTE 2)
- ⑨ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- ⑪ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

▨ REMOVAL

NOTES

- 1. CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.
- 2. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 8" ON TIFFANY ROAD FROM STA 12+29.1 RT TO STA 13+66.9 RT.
- 3. SAW CUT FULL DEPTH ALONG EDGE OF WIDENING AREAS

FILE NAME : P:\2011\ME11007_VerVar-Ph1\CADD\W003_IL173.et.Tiff.Rd\Shs\DI60L28-sht-typical.dgn
 USER : JIN
 MILLENNIA PROFESSIONAL SERVICES



200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/4/2013	REVISED -	

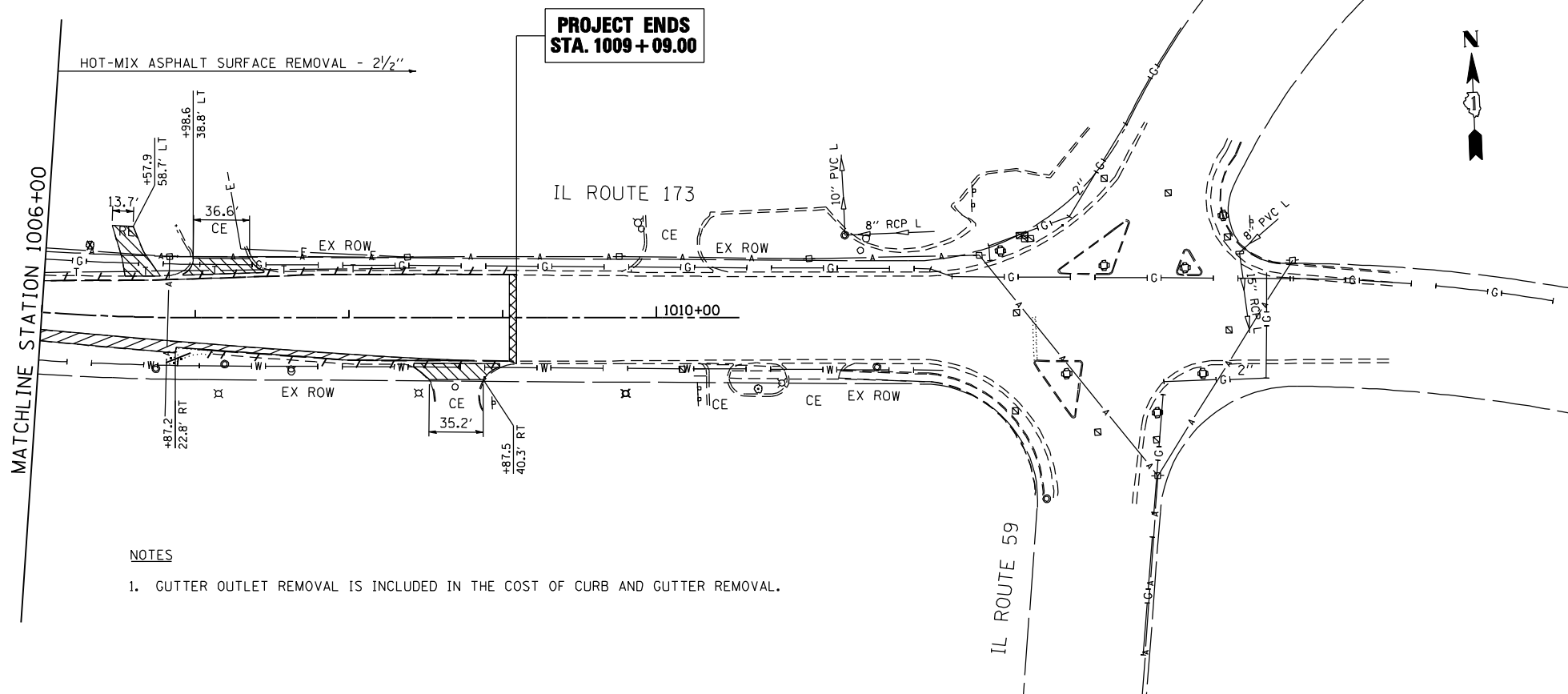
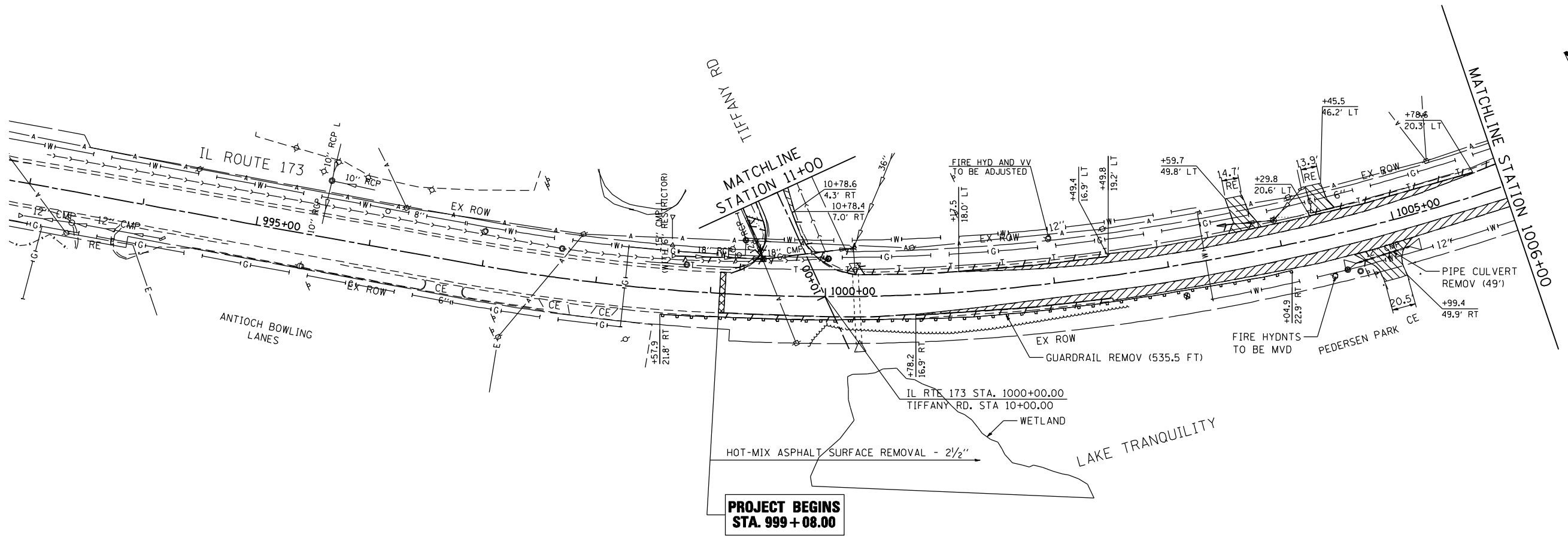
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
AT TIFFANY ROAD**

**TYPICAL SECTIONS
IL RTE 173**

SCALE: NTS SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	10
CONTRACT NO.			60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

- PAVED SHOULDER REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- CURB AND GUTTER REMOVAL
- PROPOSED SURFACE REMOVAL BUTT JOINT SEE BUTT JOINT AND HMA TAPER DETAILS (BD32)
- TREE REMOVAL 6-15
- INLET REMOVAL
- STORM SEWER REMOVAL
- MANHOLE REMOVAL

NOTES
 1. GUTTER OUTLET REMOVAL IS INCLUDED IN THE COST OF CURB AND GUTTER REMOVAL.

P:\2011\ME11007_VerVar_Phil\CADD\W003_IL173.et.Tiff.Rd'Shts\DI60L28-sht-rem-IL173.dgn
 FILE NAME : P:\2011\ME11007_VerVar_Phil\CADD\W003_IL173.et.Tiff.Rd'Shts\DI60L28-sht-rem-IL173.dgn
 USER : Phil
 MILLENNIA PROFESSIONAL SERVICES

200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/4/2013	REVISED -

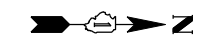
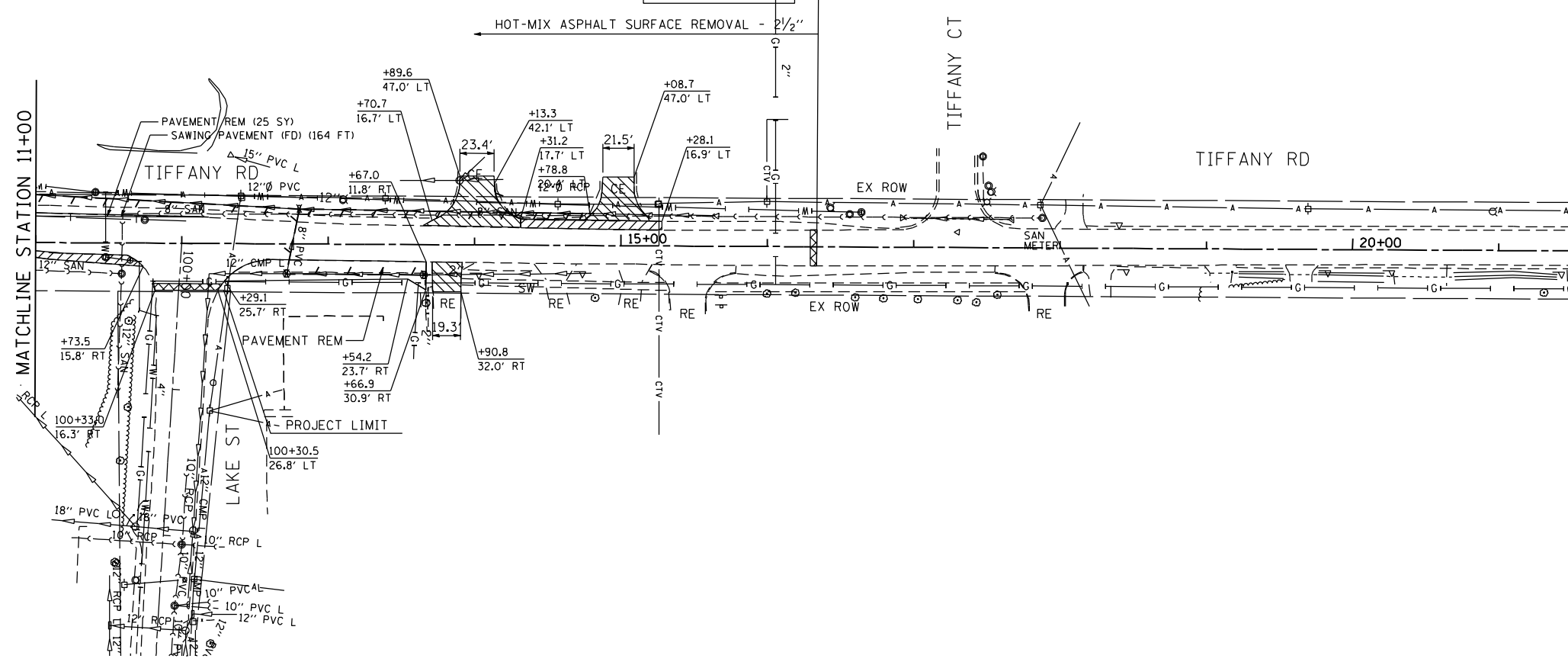
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 173 AT TIFFANY ROAD	REMOVAL PLANS IL ROUTE 173
SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS
STA. 999+08.00	TO STA. 1009+09.00

F.A.P. RTE. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEETS 62	SHEET NO. 12
CONTRACT NO. 60L28			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

P:\2011\ME11007_VerVar_Phil\CADD\W003_IL173.et.Tiff.Rd'Shts\DI60L28-sht-rem-IL173.dgn



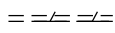



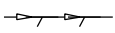

**PROJECT LIMIT
STA. 16 + 34.00**



NOTES

1. GUTTER OUTLET REMOVAL IS INCLUDED IN THE COST OF CURB AND GUTTER REMOVAL.

REMOVAL LEGEND

-  PAVED SHOULDER REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  CURB AND GUTTER REMOVAL
-  PROPOSED SURFACE REMOVAL BUTT JOINT
SEE BUTT JOINT AND HMA TAPER DETAILS (BD32)
-  TREE REMOVAL 6-15
-  INLET REMOVAL
-  STORM SEWER REMOVAL
-  MANHOLE REMOVAL

FILE NAME : P:\2011\ME11007_Ver-Ver-Phit\CADD\W003_IL173.st.Tiff_Rd\Shs\16L28-shr-rem.Tiff.dgn
 USER : ME11007
 MILLENNIA PROFESSIONAL SERVICES



200 22ND Street, Suite 214, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/4/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
AT TIFFANY ROAD**

**REMOVAL PLANS
TIFFANY ROAD**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 10+00.00 TO STA. 16+06.64

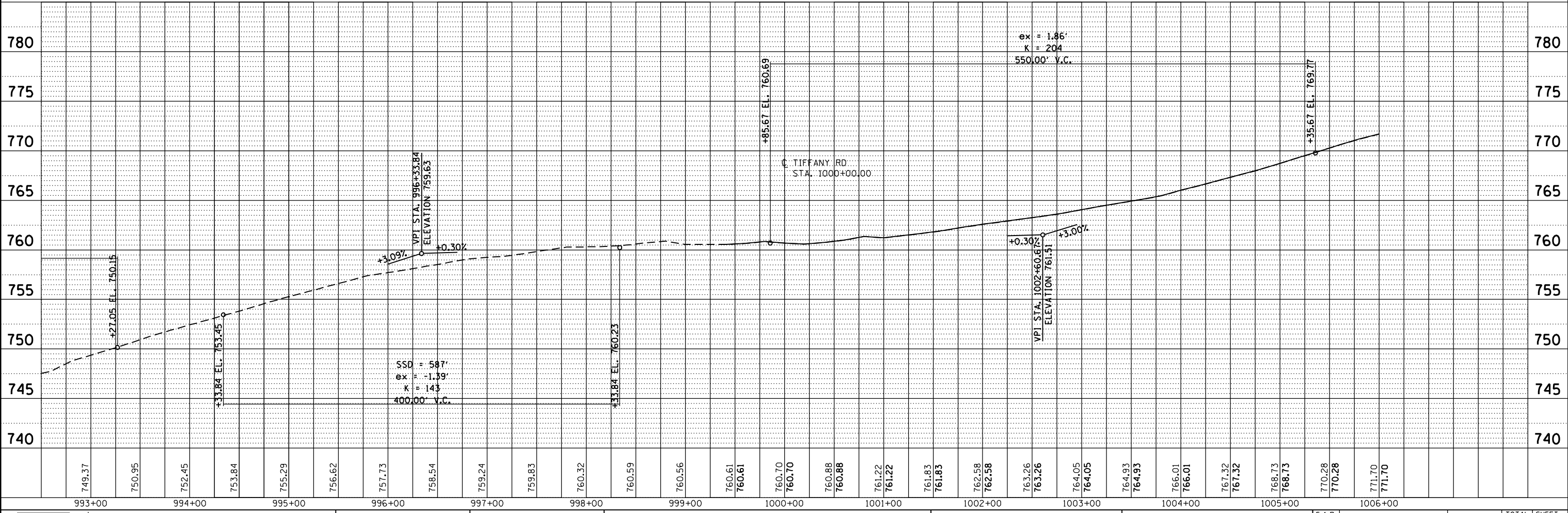
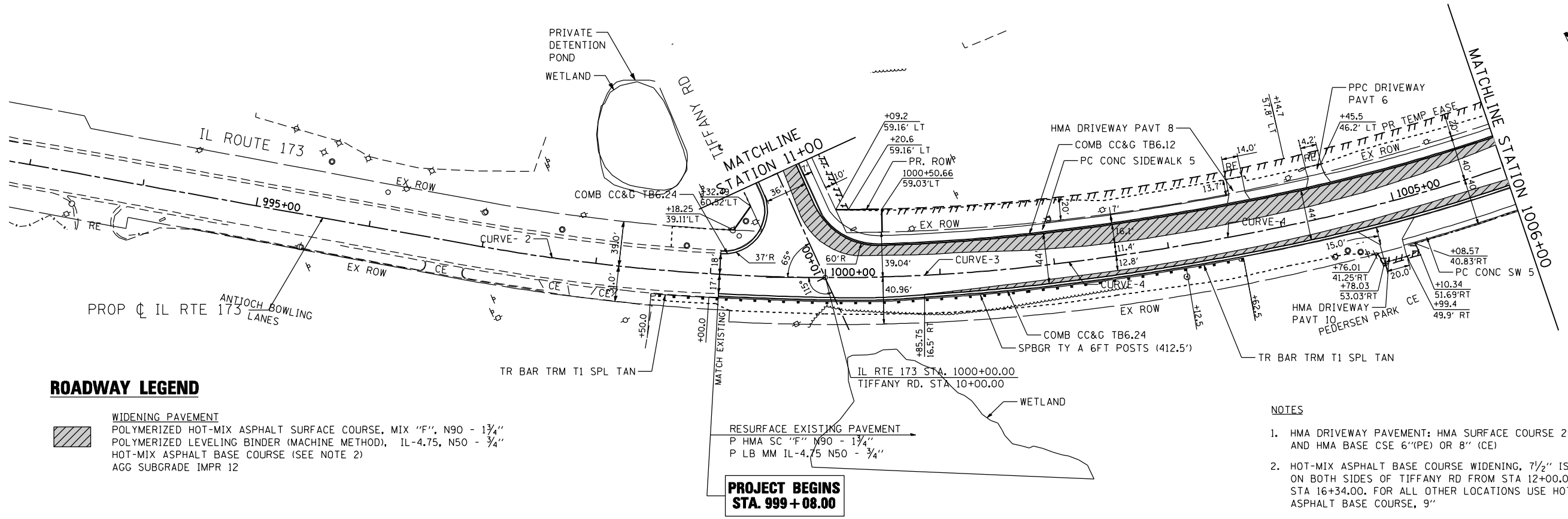
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	13
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60L28	

P:\2011\ME11007_Ver-Ver-Phit\CADD\W003_IL173.st.Tiff_Rd\Shs\16L28-shr-rem.Tiff.dgn

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNED	
	CARD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNED	
	CARD FILE NAME	
	NO.	

P:\2011\ME11007_Ver_Ver_Plan\CADD\W003_IL173.ctb Tiffany_Rd\Shots\PROFILES\607338.dgn
 FILE NAME = 1000000 / IN.
 PLOT SCALE = 1/4" = 100'
 USER NAME = Millennium Professional Services



MILLENNIA PROFESSIONAL SERVICES
 200 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8110 voice, 630.839.2566 fax
 WWW.MPS-IL.COM

DESIGNED	CJD	REVISED	-
DRAWN	CJD	REVISED	-
CHECKED	TVN	REVISED	-
DATE	2/4/2013	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
 AT TIFFANY ROAD**

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 993+00.00 TO STA. 1006+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	14
CONTRACT NO. 60L28				


P:\2011\ME11007_Ver_Ver_Plan\CADD\W003_IL173.ctb Tiffany_Rd\Shots\PROFILES\607338.dgn

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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

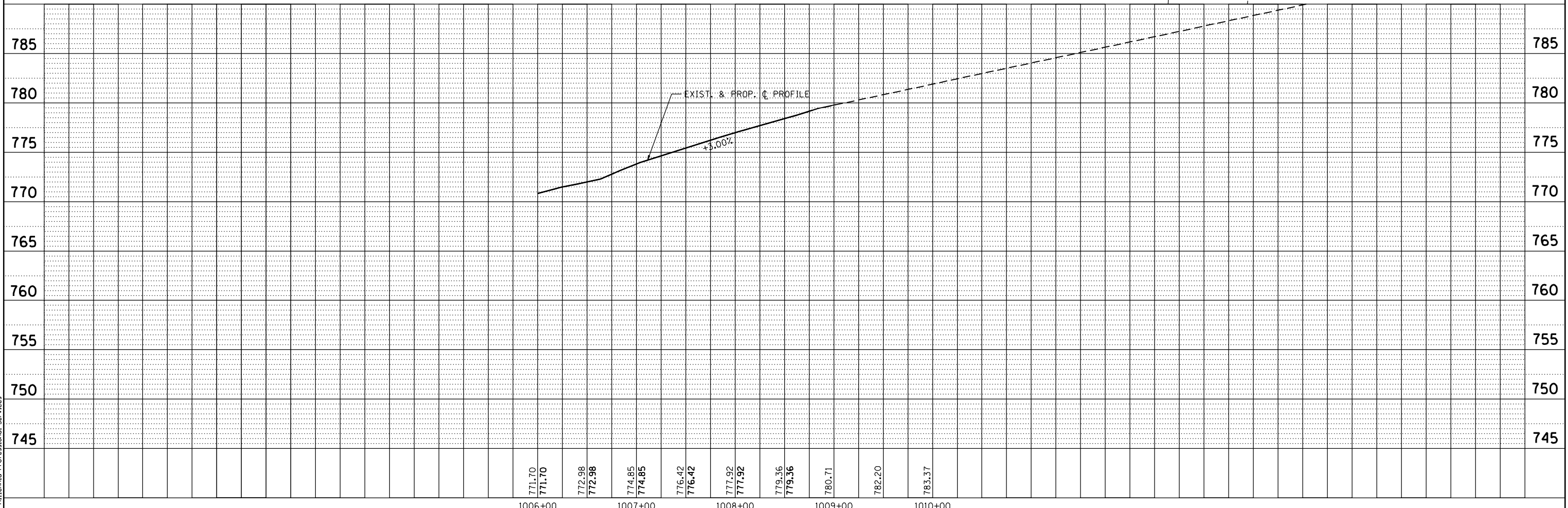
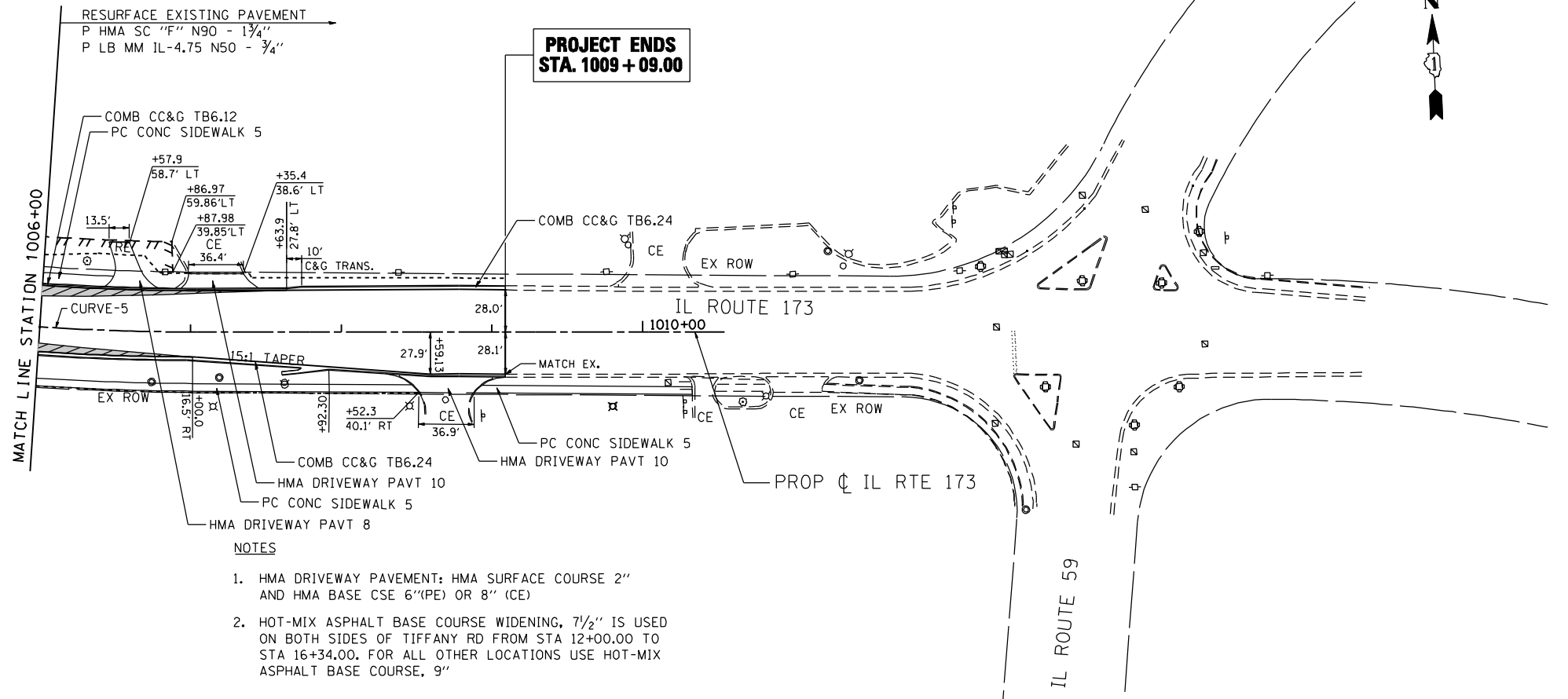
FILE NAME = P:\2011\ME11007_Ver-Var-Plan\CADD\W003_IL173.ctb; Tiff_Rd\Sh...
 PLOT SCALE = 1/8"=1'-0" / IN.
 USER NAME = Millennium Professional Services

ROADWAY LEGEND

- WIDENING PAVEMENT**
-  POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 1 3/4"
 - POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
 - HOT-MIX ASPHALT BASE COURSE (SEE NOTE 2)
 - AGG SUBGRADE IMPR 12

NOTES

1. HMA DRIVEWAY PAVEMENT: HMA SURFACE COURSE 2" AND HMA BASE CSE 6"(PE) OR 8" (CE)
2. HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" IS USED ON BOTH SIDES OF TIFFANY RD FROM STA 12+00.00 TO STA 16+34.00. FOR ALL OTHER LOCATIONS USE HOT-MIX ASPHALT BASE COURSE, 9"



771.70	771.70	772.98	772.98	774.85	774.85	776.42	776.42	777.92	777.92	779.36	779.36	780.71	780.71	782.20	782.20	783.37	783.37
1006+00	1007+00	1008+00	1009+00	1010+00													



MILLENNIA PROFESSIONAL SERVICES
 200 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8110 voice, 630.839.2566 fax
 WWW.MPS-IL.COM

DESIGNED	-	CJD	REVISED	-
DRAWN	-	CJD	REVISED	-
CHECKED	-	TVN	REVISED	-
DATE	-	2/4/2013	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
 AT TIFFANY ROAD**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 1006+00.00 TO STA. 1009+09.00

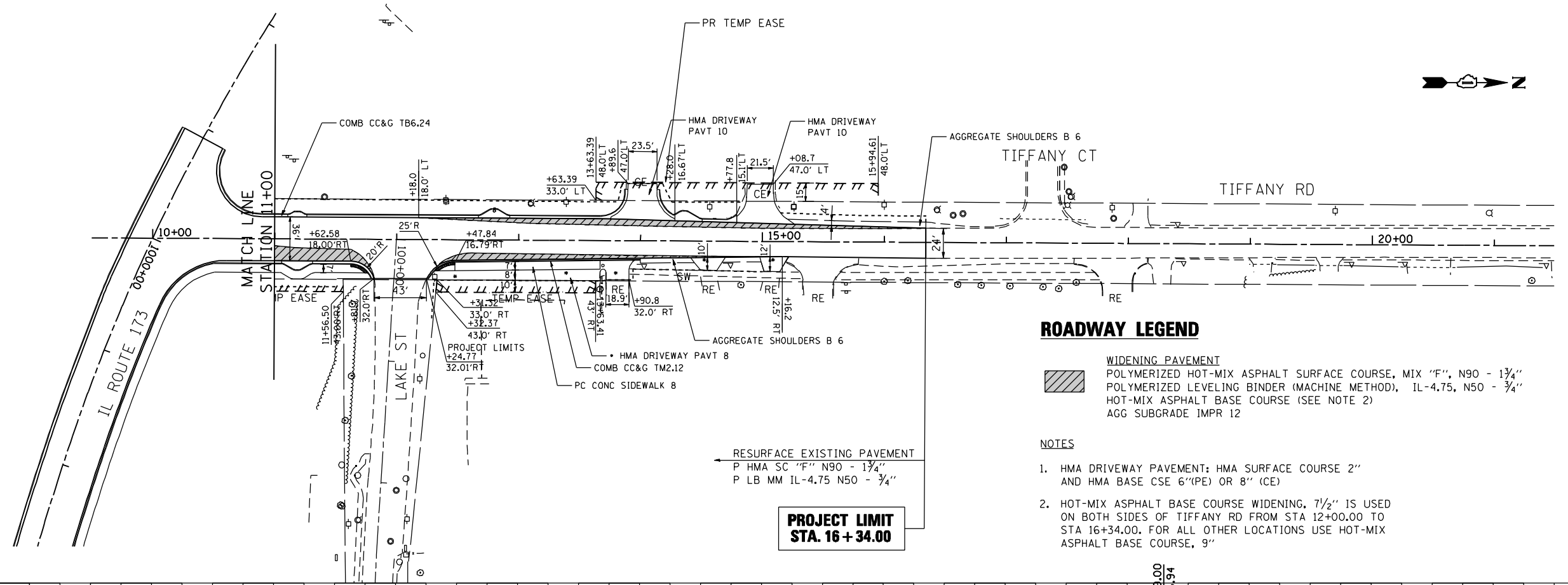
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	15
CONTRACT NO.			60L28	

FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT
 P:\2011\ME11007_Ver-Var-Plan\CADD\W003_IL173.ctb; Tiff_Rd\Shots\0160L28-shr-plnprf_IL173-02.dgn

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

FILE NAME = P:\2011\ME11007_Ver-Var-Plan\CADD\W003_IL173.ctb
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = Millennium Professional Services

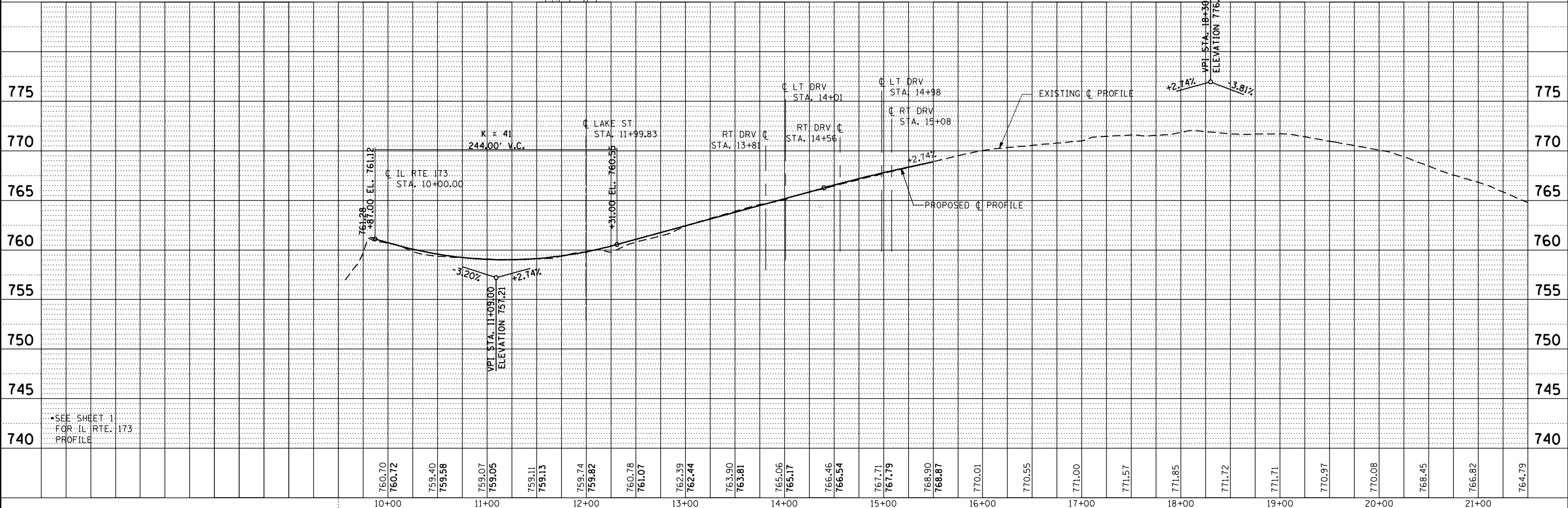


ROADWAY LEGEND

- WIDENING PAVEMENT
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 - 1 3/4"
- POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- HOT-MIX ASPHALT BASE COURSE (SEE NOTE 2)
- AGG SUBGRADE IMPR 12

NOTES

1. HMA DRIVEWAY PAVEMENT: HMA SURFACE COURSE 2" AND HMA BASE CSE 6"(PE) OR 8" (CE)
2. HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" IS USED ON BOTH SIDES OF TIFFANY RD FROM STA 12+00.00 TO STA 16+34.00. FOR ALL OTHER LOCATIONS USE HOT-MIX ASPHALT BASE COURSE, 9"



DESIGNED	CJD	REVISED	-
DRAWN	CJD	REVISED	-
CHECKED	TVN	REVISED	-
DATE	2/4/2013	REVISED	-

10+00	760.70	760.72	759.40	759.58	759.07	759.05	759.11	759.13	759.74	759.82	760.78	761.07	762.39	762.44	763.90	763.81	765.06	765.17	766.46	766.54	767.71	767.79	768.90	768.87	770.01	770.55	771.00	771.57	771.85	771.72	771.71	770.97	770.08	768.45	766.82	764.79
-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

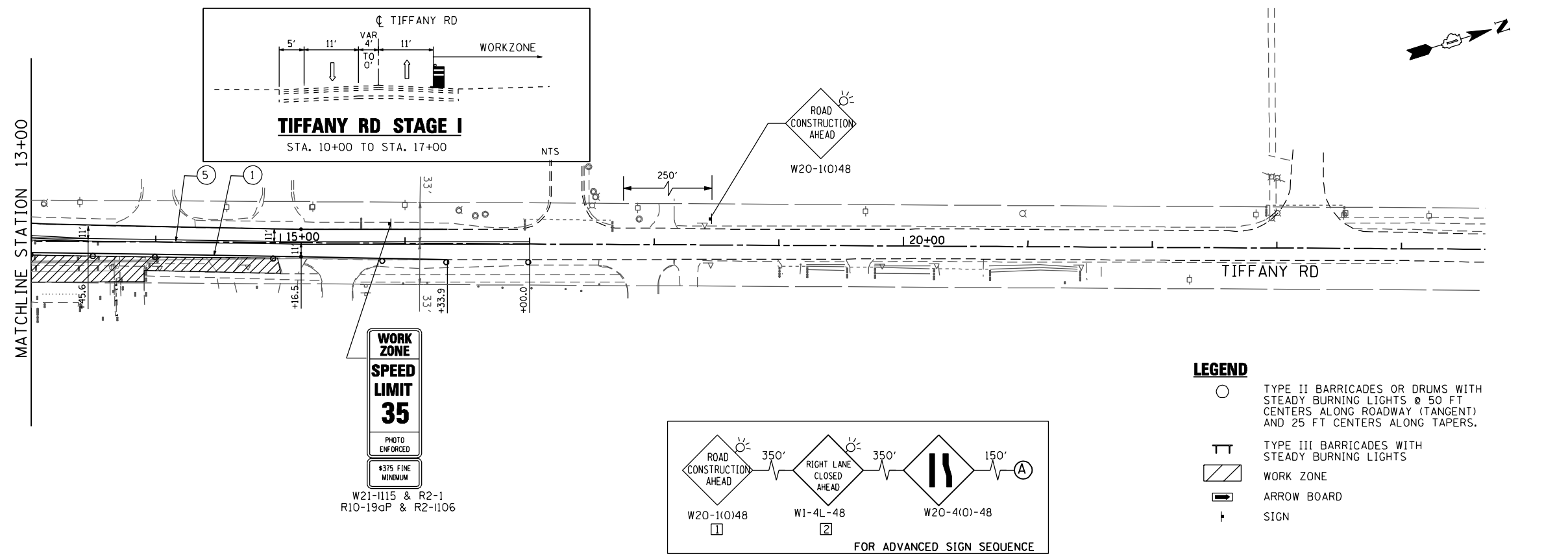
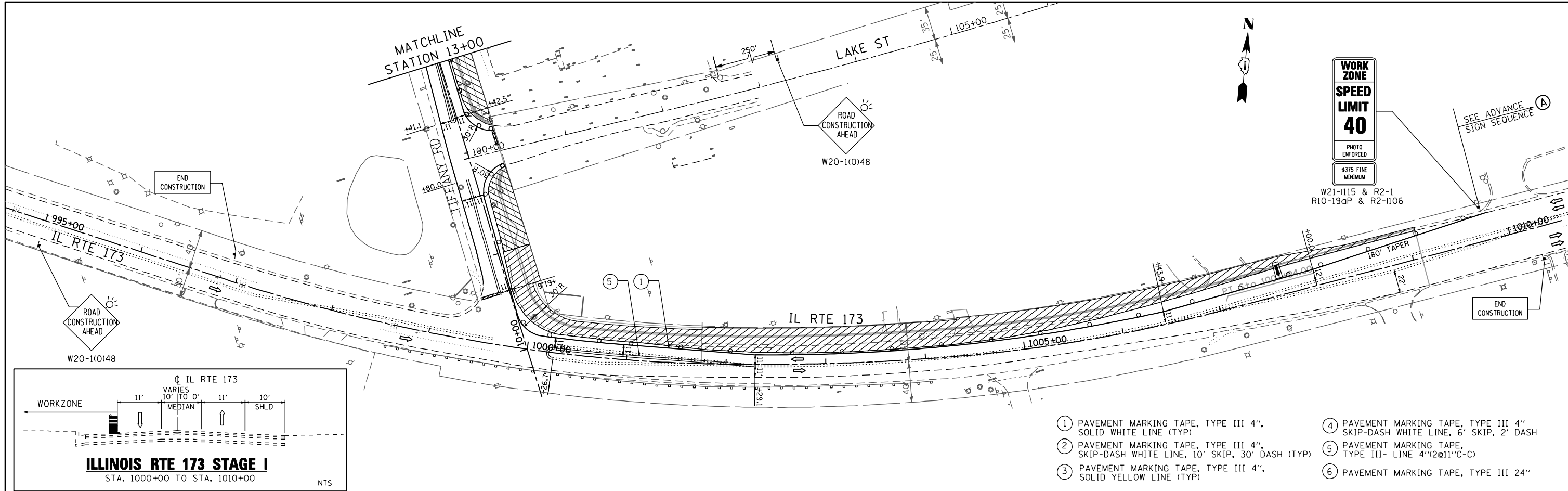
**IL ROUTE 173
AT TIFFANY ROAD**

**PLAN & PROFILE
TIFFANY ROAD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	16
CONTRACT NO. 60L28				



MILLENNIA PROFESSIONAL SERVICES
 200 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8110 voice, 630.839.2566 fax
 WWW.MPS-IL.COM



P:\2011\ME11007_Ver-Ver-Ph1\CAD\W003_IL173.et.Tiff_Rd\Shs\DI60L28-sht-Stg1_IL173.dgn
 USER: NAME
 MILLENNIA PROFESSIONAL SERVICES


MILLENNIA PROFESSIONAL SERVICES
 200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/6/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS

SUGGESTED STAGES CONSTRUCTION & TRAFFIC CONTROL PLAN
STAGE I

STA. 995+00 TO STA. 1010+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	18
CONTRACT NO. 60L28				

STG11

FILE NAME : P:\2011\ME11007_Var\Var-Ph1\CA000\W003_IL173.et.Tiff_Rd\Shs\DI60L28-shr-Stg21_IL173.dgn
 USER NAME : Millennium Professional Services



200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com

MILLENNIA PROFESSIONAL SERVICES

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/6/2013	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
 AT TIFFANY ROAD**

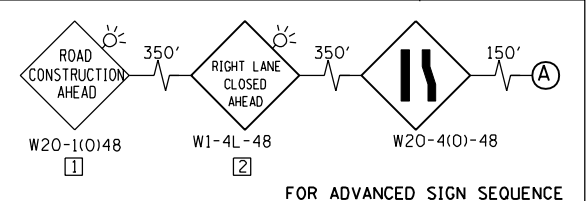
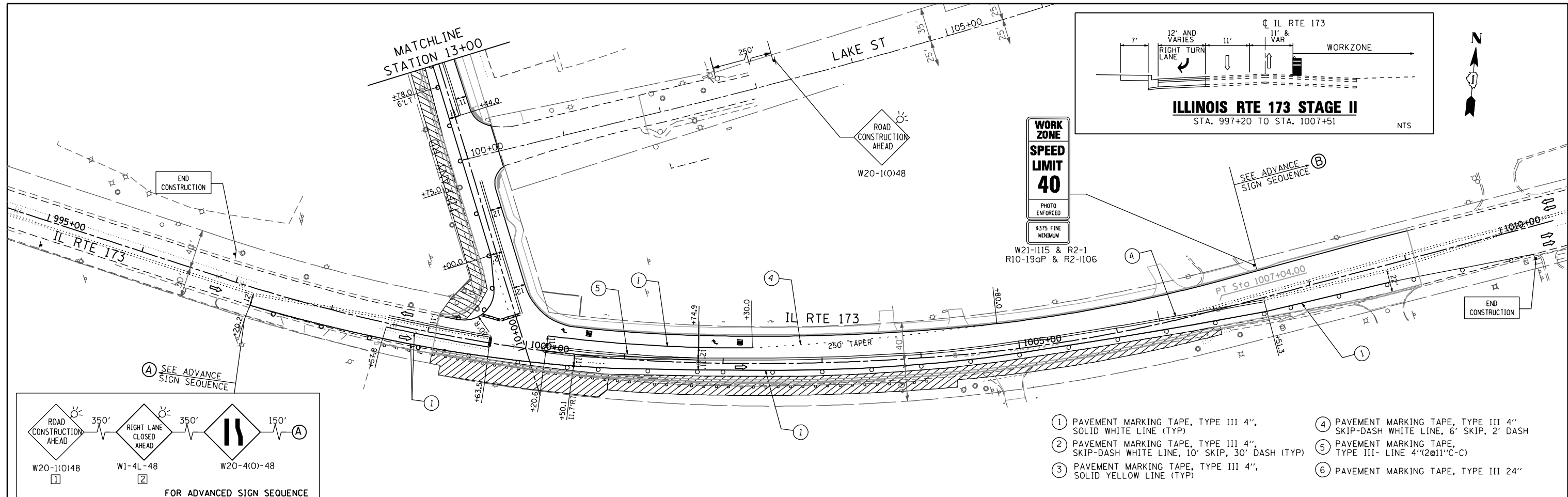
**SUGGESTED STAGES CONSTRUCTION &
 TRAFFIC CONTROL PLAN
 STAGE II**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 995+00 TO STA. 1010+00

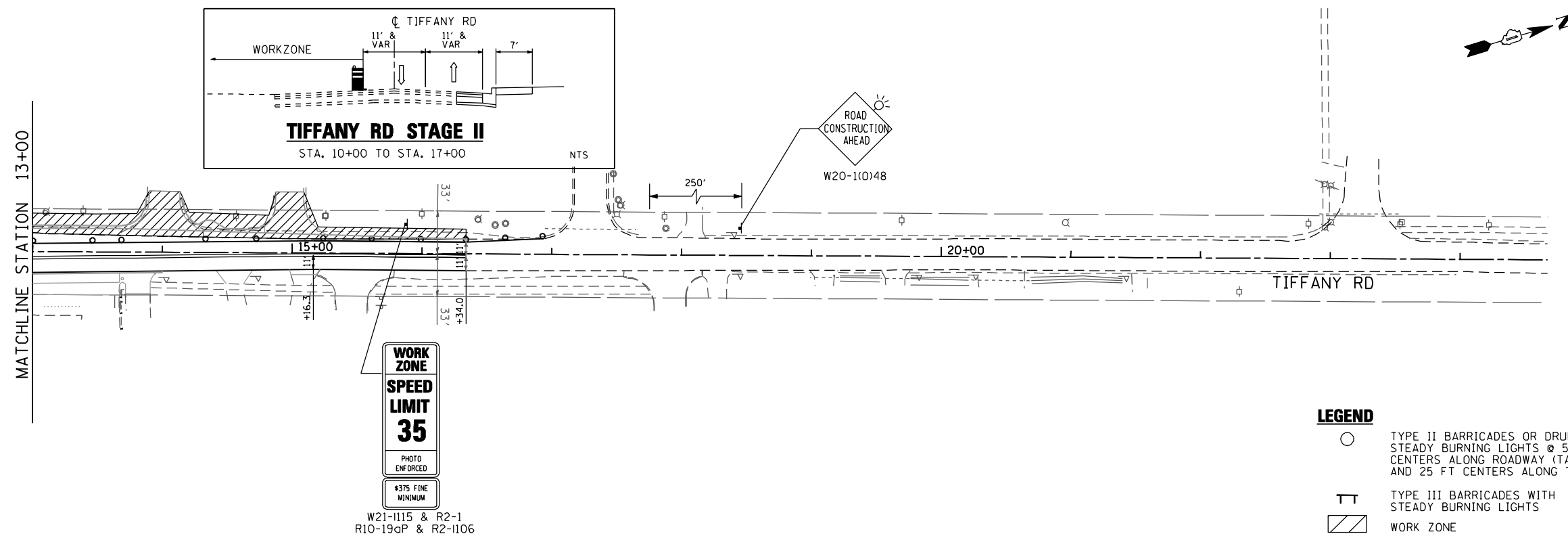
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	19
CONTRACT NO.			60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
- TT TYPE III BARRICADES WITH STEADY BURNING LIGHTS
- ▨ WORK ZONE
- ➡ ARROW BOARD
- † SIGN

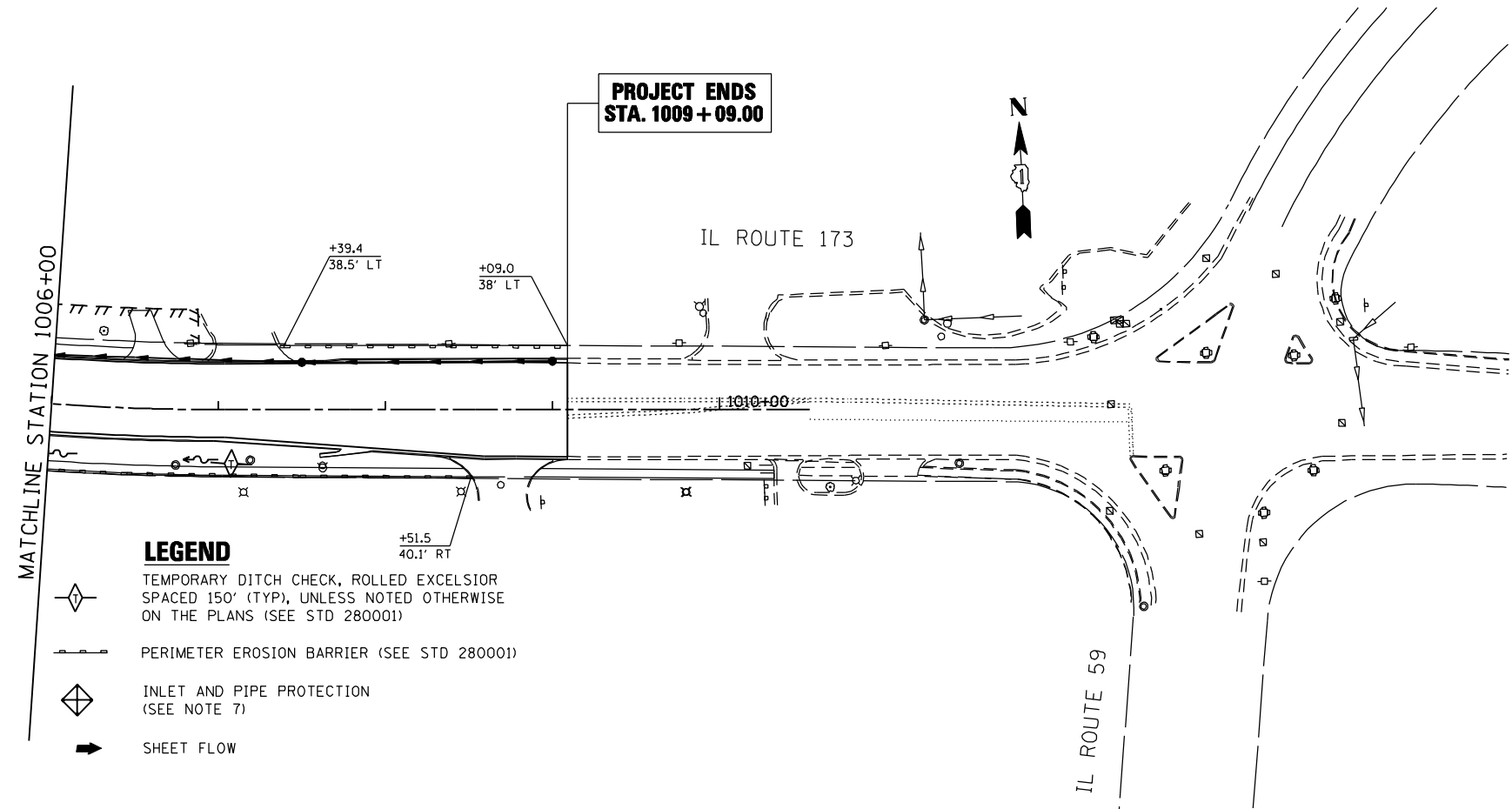
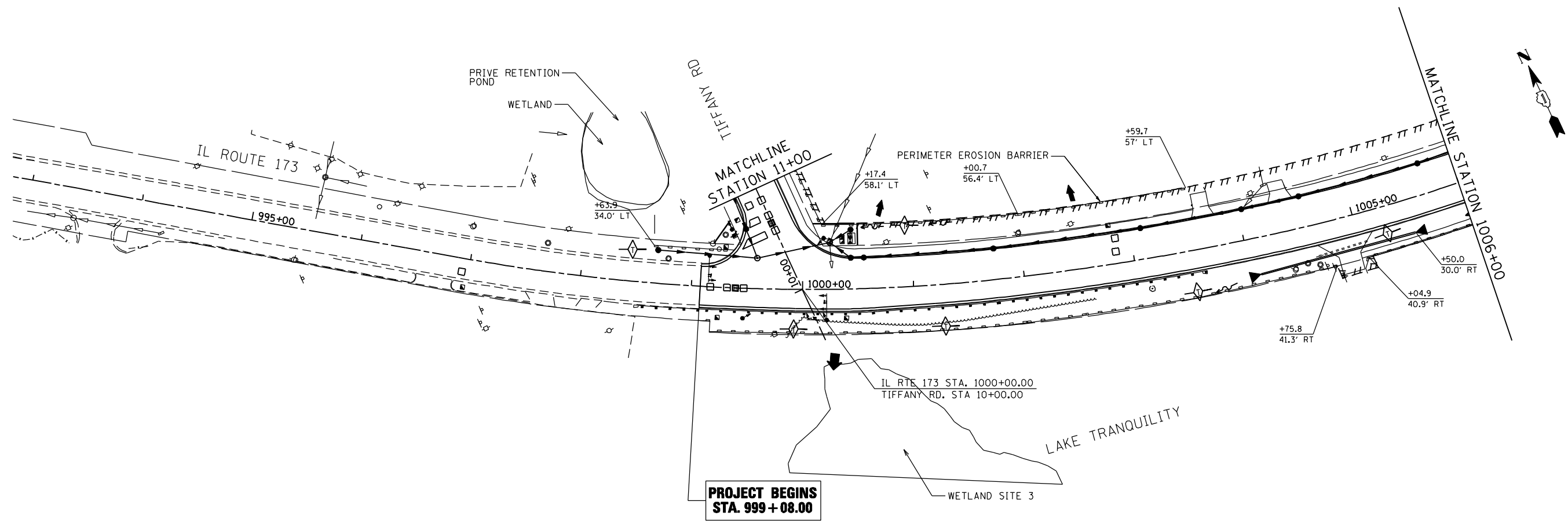


- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP)
- ② PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 10' SKIP, 30' DASH (TYP)
- ③ PAVEMENT MARKING TAPE, TYPE III 4", SOLID YELLOW LINE (TYP)
- ④ PAVEMENT MARKING TAPE, TYPE III 4" SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH
- ⑤ PAVEMENT MARKING TAPE, TYPE III- LINE 4"(2@11"C-C)
- ⑥ PAVEMENT MARKING TAPE, TYPE III 24"



STG21

P:\2011\ME11007_Var\Var-Ph1\CA000\W003_IL173.et.Tiff_Rd\Shs\DI60L28-shr-Stg21_IL173.dgn



- LEGEND**
- TEMPORARY DITCH CHECK, ROLLED EXCELSIOR SPACED 150' (TYP), UNLESS NOTED OTHERWISE ON THE PLANS (SEE STD 280001)
 - PERIMETER EROSION BARRIER (SEE STD 280001)
 - INLET AND PIPE PROTECTION (SEE NOTE 7)
 - SHEET FLOW

- TEMPORARY EROSION CONTROL NOTES**
1. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR THE START OF CONSTRUCTION OPERATIONS WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION LIMITS.
 2. TEMPORARY EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280-TEMPORARY EROSION CONTROL OF THE STANDARD SPECIFICATIONS, CONTRACT SPECIAL PROVISIONS AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
 3. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN HIGHWAY STANDARD 280001.
 4. WEEKLY SITE INSPECTIONS AND APPROPRIATE MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES SHALL BE CONDUCTED AND DOCUMENTED AT ALL TIMES DURING CONSTRUCTION AND ESPECIALLY PRIOR TO, DURING, AND AFTER RAINFALL 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. THE CONTRACTOR SHALL IMMEDIATELY PLACE AND MAINTAIN TEMPORARY EROSION CONTROL SEEDING AT ALL ERODIBLE/BARE AREAS IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.
 5. THE CONTRACTOR SHALL PLACE PERIMETER EROSION BARRIER AROUND ALL EARTH STOCKPILES.
 6. EROSION CONTROL MEASURES PLACED DURING STAGE 1 AND STAGE 2 SHALL REMAIN IN PLACE AND MAINTAINED UNTIL NO LONGER REQUIRED.
 7. INLET FILTERS SHALL BE PLACED AT ALL INLETS WITHIN PROJECT LIMITS DURING CONSTRUCTION.
 8. THE CONTRACTOR SHALL PREPARE DEWATERING PLANS TO BE REVIEWED AND ACCEPTED BY IDOT'S RE PRIOR TO CONTRACTOR CONDUCTING ANY DEWATERING WORK. LACK OF AN ACCEPTED PLAN OR FAILURE TO COMPLY WITH IT WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
 9. THE CONTRACTOR SHALL PREPARE A PLAN FOR MAINTAINING A STABILIZED FLOW LINE DURING STORM SEWER COSTRUCTION, TO BE REVIEWED AND ACCEPTED BY IDOT'S RE PRIOR TO CONSTRUCTOR CONDUCTING ANY STORM WORK. LACK OF AN ACCEPTED PLAN OR FAILURE TO COMPLY WITH IT WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

FILE NAME : P:\2011\ME11007_Ver-Ver-Phil\CADD\W003_IL173.et.Tiff_Re\Shs\0160L28-sht-eros_IL173.DGN
 USER : Phil
 MILLENNIA PROFESSIONAL SERVICES

200 22ND Street, Suite 214, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/4/2013	REVISED -	

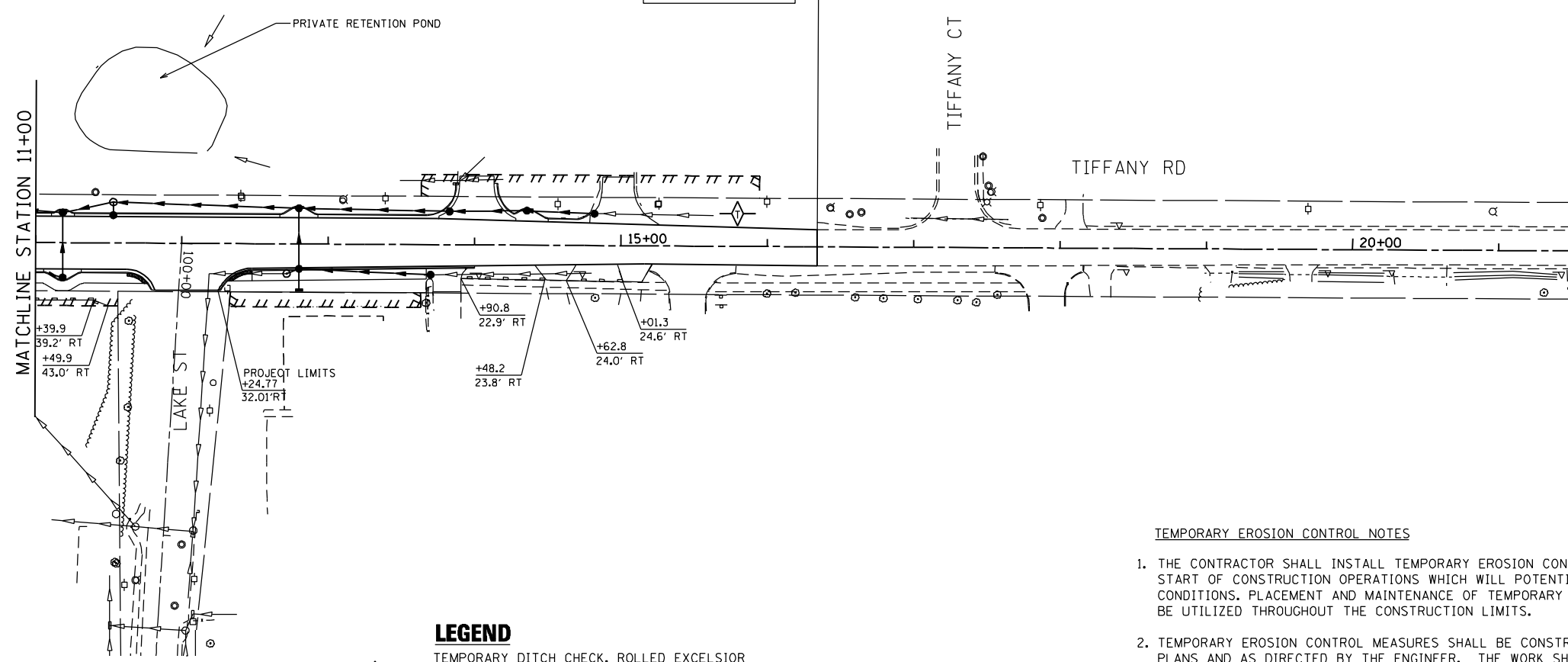
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173 AT TIFFANY ROAD		EROSION AND SEDIMENT CONTROL PLAN IL ROUTE 173	
SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS	STA. 999+08.00 TO STA. 1009+09.00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	20
CONTRACT NO.			60L28	

P:\2011\ME11007_Ver-Ver-Phil\CADD\W003_IL173.et.Tiff_Re\Shs\0160L28-sht-eros_IL173.DGN

**PROJECT LIMIT
STA. 16 + 34.00**



LEGEND

-  TEMPORARY DITCH CHECK, ROLLED EXCELSIOR SPACED 150' (TYP), UNLESS NOTED OTHERWISE ON THE PLANS (SEE STD 280001)
-  PERIMETER EROSION BARRIER (SEE STD 280001)
-  INLET AND PIPE PROTECTION (SEE NOTE 7)

TEMPORARY EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION OPERATIONS WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION LIMITS.
2. TEMPORARY EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280-TEMPORARY EROSION CONTROL OF THE STANDARD SPECIFICATIONS, CONTRACT SPECIAL PROVISIONS AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
3. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN HIGHWAY STANDARD 280001.
4. WEEKLY SITE INSPECTIONS AND APPROPRIATE MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES SHALL BE CONDUCTED AND DOCUMENTED AT ALL TIMES DURING CONSTRUCTION AND ESPECIALLY PRIOR TO, DURING, AND AFTER RAINFALL 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. THE CONTRACTOR SHALL IMMEDIATELY PLACE AND MAINTAIN TEMPORARY EROSION CONTROL SEEDING AT ALL ERODIBLE/BARE AREAS IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR SHALL PLACE PERIMETER EROSION BARRIER AROUND ALL EARTH STOCKPILES.
6. EROSION CONTROL MEASURES PLACED DURING STAGE 1 AND STAGE 2 SHALL REMAIN IN PLACE AND MAINTAINED UNTIL NO LONGER REQUIRED.
7. INLET FILTERS SHALL BE PLACED AT ALL INLETS WITHIN PROJECT LIMITS DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL PREPARE DEWATERING PLANS TO BE REVIEWED AND ACCEPTED BY IDOT'S RE PRIOR TO CONTRACTOR CONDUCTING ANY DEWATERING WORK. LACK OF AN ACCEPTED PLAN OR FAILURE TO COMPLY WITH IT WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
9. THE CONTRACTOR SHALL PREPARE A PLAN FOR MAINTAINING A STABILIZED FLOW LINE DURING STORM SEWER COSTRUCTION, TO BE REVIEWED AND ACCEPTED BY IDOT'S RE PRIOR TO CONTRACTOR CONDUCTING ANY STORM WORK. LACK OF AN ACCEPTED PLAN OR FAILURE TO COMPLY WITH IT WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

FILE NAME : P:\2011\ME11007_VerVar-Phl\CADD\W003_IL173.et.Tiff_Rd\Shs\DI60L28-sht-eros.Tiff.dgn
 USER : ME110000
 MILLENNIA PROFESSIONAL SERVICES



200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/4/2013	REVISED -	

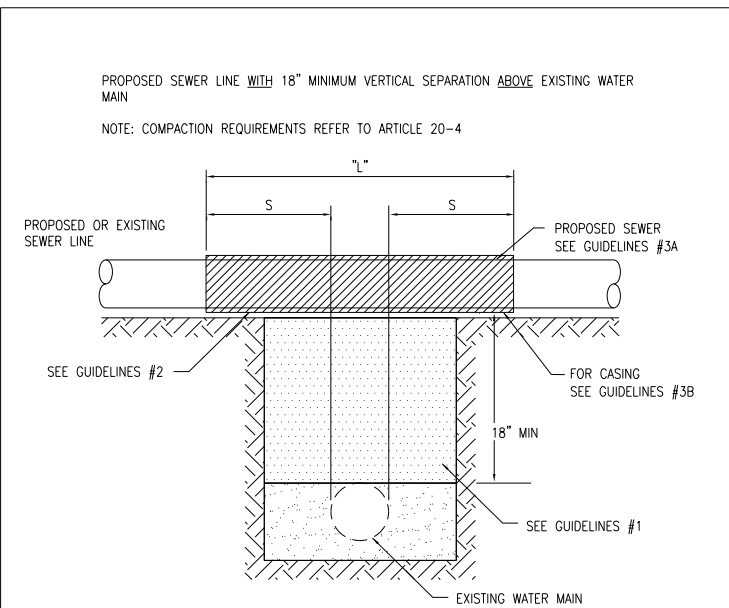
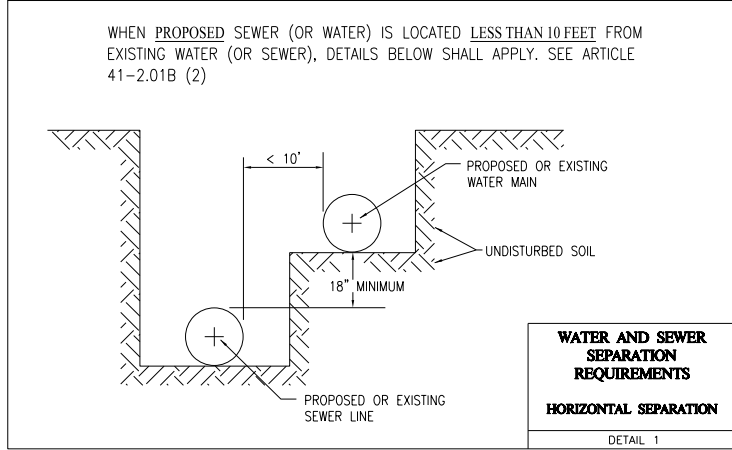
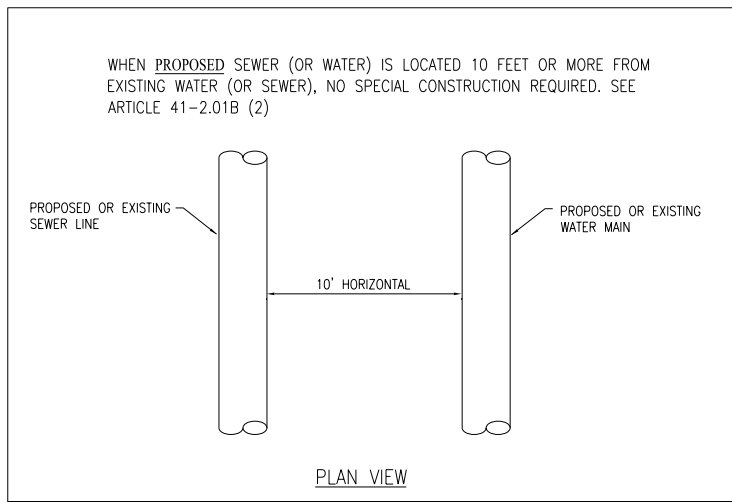
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
AT TIFFANY ROAD**
 SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS

**EROSION AND SEDIMENT
CONTROL PLAN
TIFFANY ROAD**
 STA. 11+00.00 TO STA. 16+34.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	21
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L28	

P:\2011\ME11007_VerVar-Phl\CADD\W003_IL173.et.Tiff_Rd\Shs\DI60L28-sht-eros.Tiff.dgn



NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN

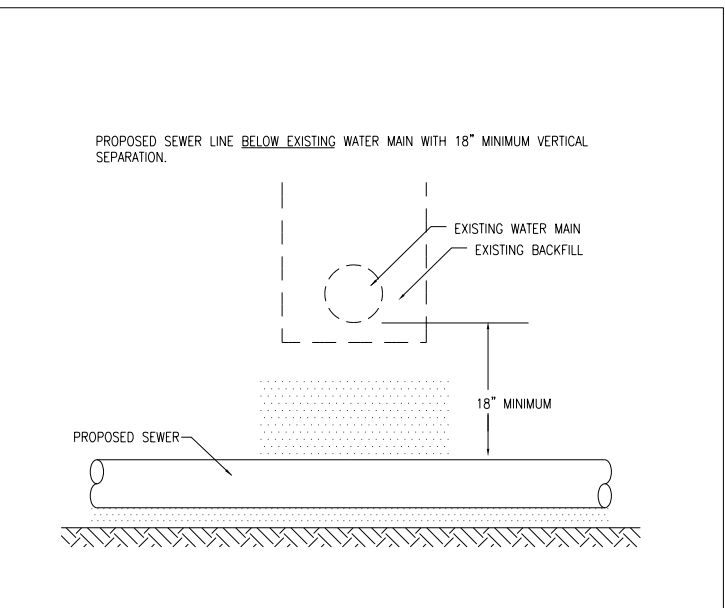
GUIDELINES

- IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
- OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
- A) CONSTRUCT "L" FEET OF PROPOSED SEWER OR WATER MAIN MATERIAL AND PRESSURE TEST, OR;
B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.

WATER AND SEWER SEPARATION REQUIREMENTS

VERTICAL SEPARATION

DETAIL 2



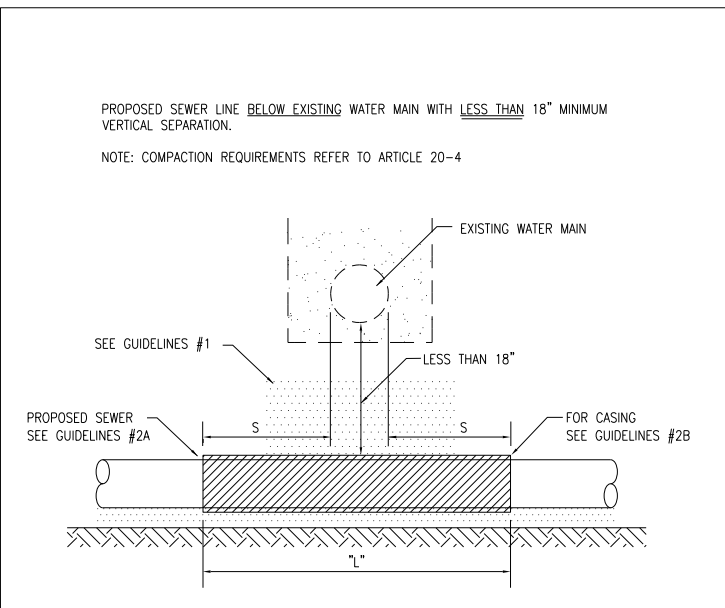
GUIDELINES

- PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

WATER AND SEWER SEPARATION REQUIREMENTS

VERTICAL SEPARATION

DETAIL 3



NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN

GUIDELINES

- OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR "S" FEET ON EACH SIDE OF WATER MAIN.
- A) CONSTRUCT "L" FEET OF PROPOSED SEWER OR WATER MAIN MATERIAL AND PRESSURE TEST, OR;
B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
- PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

WATER AND SEWER SEPARATION REQUIREMENTS

VERTICAL SEPARATION

DETAIL 4

- NOTE:
- IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED IN SECTION 8-003.01 IN THE BDE MANUAL, BOTH THE WATER MAIN AND STORM SEWER MUST BE EITHER:
 - CONSTRUCTED WITH WATER MAIN QUALITY PIPE AND JOINTS THAT COMPLY WITH 35 ILL. ADM. CODE 653.119 AND SHALL BE PRESSURE TESTED IN ACCORDANCE WITH "AWWA STANDARD FOR INSTALLATION OF DUCTILE-IRON WATER MAINS AND THEIR APPURTENANCES" FOR A WORKING PRESSURE EQUAL TO OR GREATER THAN THE MAXIMUM POSSIBLE SURCHARGE HEAD TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
 - ENCASED IN A CARRIER PIPE WITH SEALED ENDS AND JOINTS COMPLYING WITH 35 ILL. ADM. CODE 653.119.
 - THE WATER MAIN QUALITY SEWER OR CARRIER PIPE SHALL EXTEND ON EACH SIDE OF THE CROSSING TO A POINT WHERE THE PERPENDICULAR DISTANCE FROM THE OUTSIDE OF THE WATER MAIN TO THE OUTSIDE OF THE STORM SEWER IS AT LEAST 10 FEET.
 - POINT LOADS BETWEEN THE SEWER OR SEWER CASING AND THE WATER MAIN ARE PROHIBITED.
 - ADEQUATE SUPPORT SHALL BE PROVIDED FOR THE WATER MAIN TO PREVENT DAMAGE RESULTING FROM SETTLING OF THE SEWER TRENCH.
 - FOR THE REQUIRED LENGTH OF THE WATER MAIN QUALITY STORM SEWER OR CARRIER PIPE, OMIT THE SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE FOOT OVER THE CROWN OF THE SEWER AND USE SELECTED EXCAVATED MATERIAL (CLASS IV) COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY. WHERE IT IS NOT POSSIBLE FOR A PROPOSED SEWER TO CROSS UNDER AN EXISTING WATER MAIN, THE SPECIFICATIONS SHALL REQUIRE THE CONSTRUCTION METHODS STIPULATED ABOVE AND THAT ANY SELECT GRANULAR BACKFILL ABOVE THE CROWN OF THE WATER MAIN BE REMOVED WITHIN THE WIDTH OF THE PROPOSED STORM SEWER TRENCH AND BE REPLACED WITH SELECT EXCAVATED MATERIAL (CLASS IV) COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY. WHERE A PROPOSED STORM SEWER MUST CROSS OVER A PROPOSED WATER MAIN, AN 18-INCH VERTICAL SEPARATION SHALL BE MAINTAINED.
 - REFER TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS FOR MORE DETAILS.

FILE NAME : C:\Projects\3006-DS-002\05 CAD\Shets\160L28-sh-t-drain-notes.dgn
 USER : MUltimedia Professional Services

AEG Ltd.
 3100 Dundee Road, Suite 502, Northbrook, IL 60062
 847.753.8020 office 847.753.8023 fax

DESIGNED - JKO	REVISED -
DRAWN - JKO	REVISED -
CHECKED - NH	REVISED -
DATE - 2/6/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

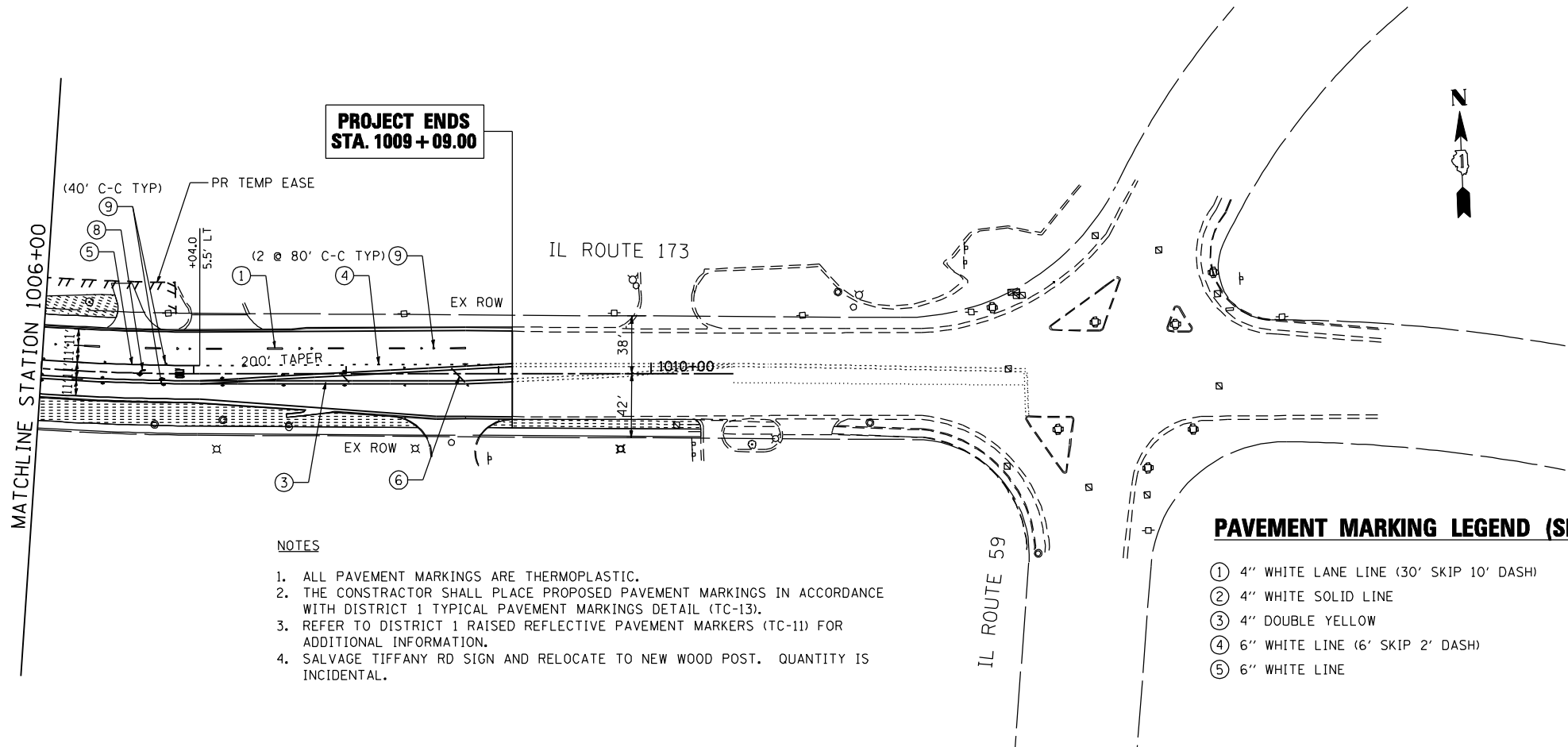
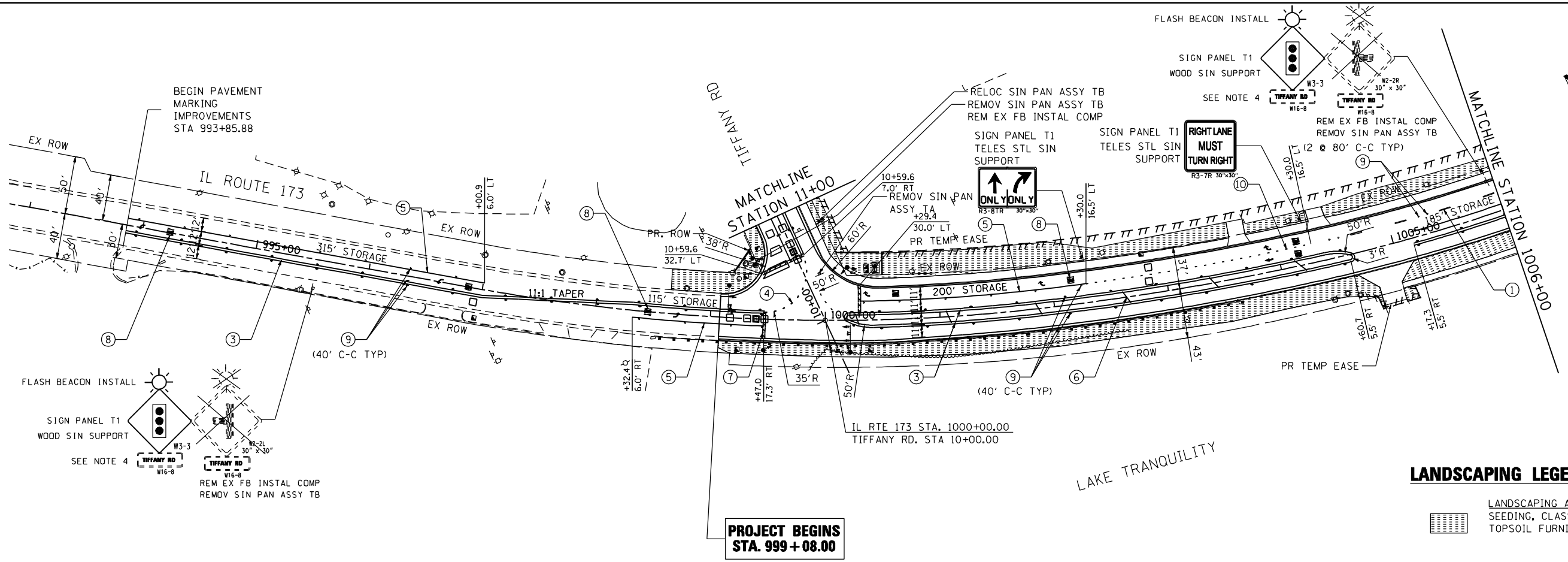
IL 173
AT TIFFANY ROAD

SCALE: NTS SHEET NO. 3 OF 3 SHEETS STA. TO STA.

DRAINAGE DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	24
CONTRACT NO.				60L28

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 C:\Projects\3006-DS-002\05 CAD\Shets\160L28-sh-t-drain-notes.dgn



- NOTES**
1. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC.
 2. THE CONSTRUCTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
 3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.
 4. SALVAGE TIFFANY RD SIGN AND RELOCATE TO NEW WOOD POST. QUANTITY IS INCIDENTAL.

- PAVEMENT MARKING LEGEND (SEE NOTE 1)**
- | | |
|--|--|
| ① 4" WHITE LANE LINE (30' SKIP 10' DASH) | ⑥ 12" YELLOW LINE (75' C-C OR MIN 5 EVENLY SPACED) |
| ② 4" WHITE SOLID LINE | ⑦ 24" WHITE STOP BAR |
| ③ 4" DOUBLE YELLOW | ⑧ LETTERS AND SYMBOLS (TYP) |
| ④ 6" WHITE LINE (6' SKIP 2' DASH) | ⑨ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 3) |
| ⑤ 6" WHITE LINE | ⑩ 6" WHITE LINE (9' SKIP 2' DASH) |

P:\2011\ME11007_Ver-Var-Ph1\CADD\W003_IL173.et.Tiff_Rd\Shs\0160L28-sht.pmk_IL173.dgn
 01/06/2013 10:00:00
 USER: NAME
 MILLENNIA PROFESSIONAL SERVICES

200 22ND Street, Suite 214, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

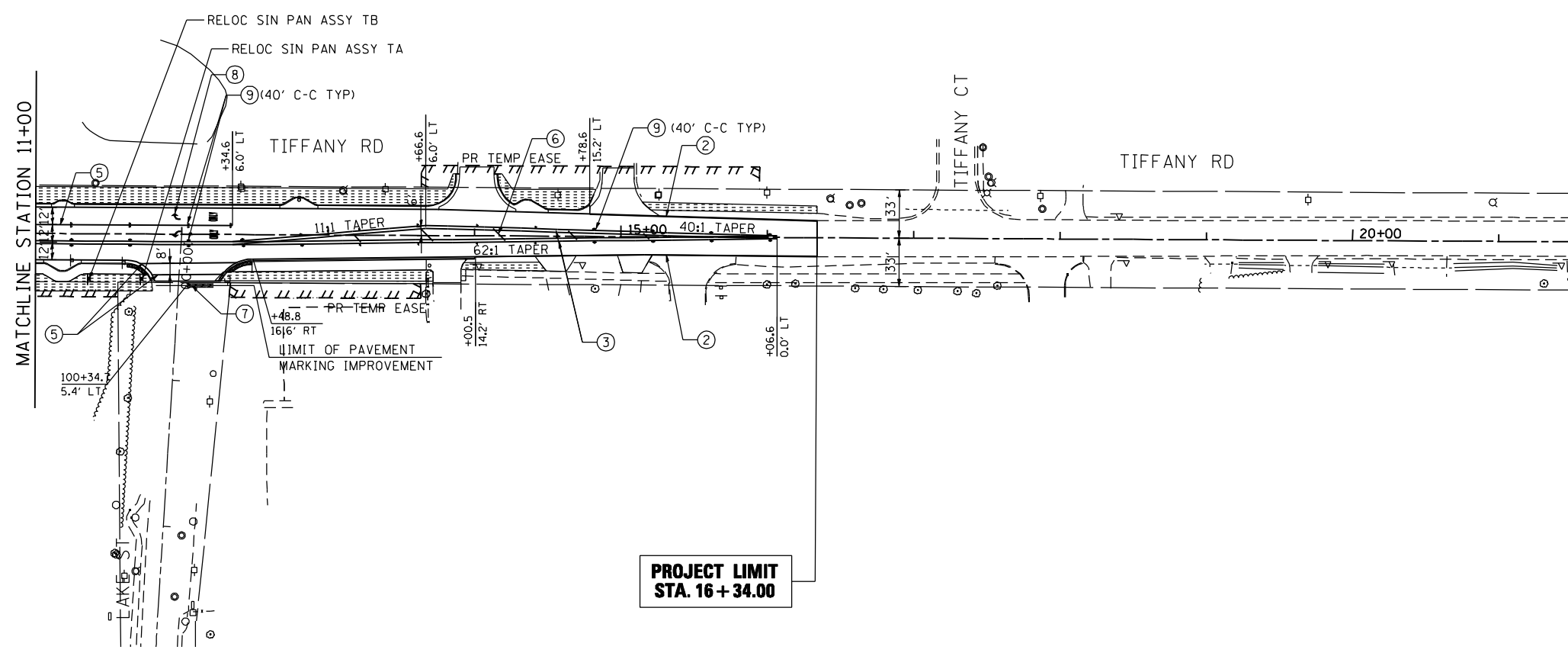
DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/4/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173 AT TIFFANY ROAD	PAVEMENT MARKING PLAN IL ROUTE 173	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		303	134-N-1	LAKE	62	25
SCALE: 1"=50'		SHEET NO. 1 OF 2 SHEETS		STA. 999+08.00 TO STA. 1009+09.00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO. 60L28	
--------------------	--

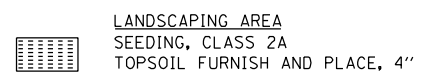
P:\2011\ME11007_Ver-Var-Ph1\CADD\W003_IL173.et.Tiff_Rd\Shs\0160L28-sht.pmk_IL173.dgn



NOTES

1. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC.
2. THE CONSTRUCTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
3. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.
4. SALVAGE TIFFANY RD SIGN AND RELOCATE TO NEW WOOD POST. QUANTITY IS INCIDENTAL.


LANDSCAPING LEGEND



PAVEMENT MARKING LEGEND (SEE NOTE 1)

- | | |
|--|--|
| ① 4" WHITE LANE LINE (30' SKIP 10' DASH) | ⑥ 12" YELLOW LINE (75' C-C OR MIN 5 EVENLY SPACED) |
| ② 4" WHITE SOLID LINE | ⑦ 24" WHITE STOP BAR |
| ③ 4" DOUBLE YELLOW | ⑧ LETTERS AND SYMBOLS (TYP) |
| ④ 6" WHITE LINE (6' SKIP 2' DASH) | ⑨ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 3) |
| ⑤ 6" WHITE LINE | ⑩ 6" WHITE LINE (9' SKIP 2' DASH) |

FILE NAME : P:\2011\ME11007_Ver-Var-PhII\CA00\W003_IL173.st.Tiff.Rd\Shs\DI60L28-shr.pmk.Tiff.dgn
 USER : ME11007
 MILLENNIA PROFESSIONAL SERVICES



200 22ND Street, Suite 214, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/4/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173 AT TIFFANY ROAD	PAVEMENT MARKING PLAN TIFFANY ROAD
SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS
STA. 11+00.00	TO STA. 16+34.00

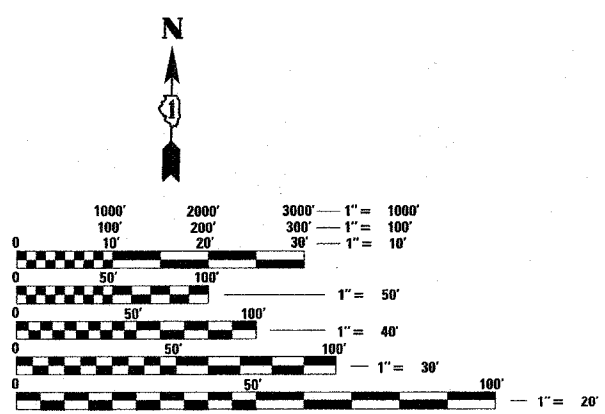
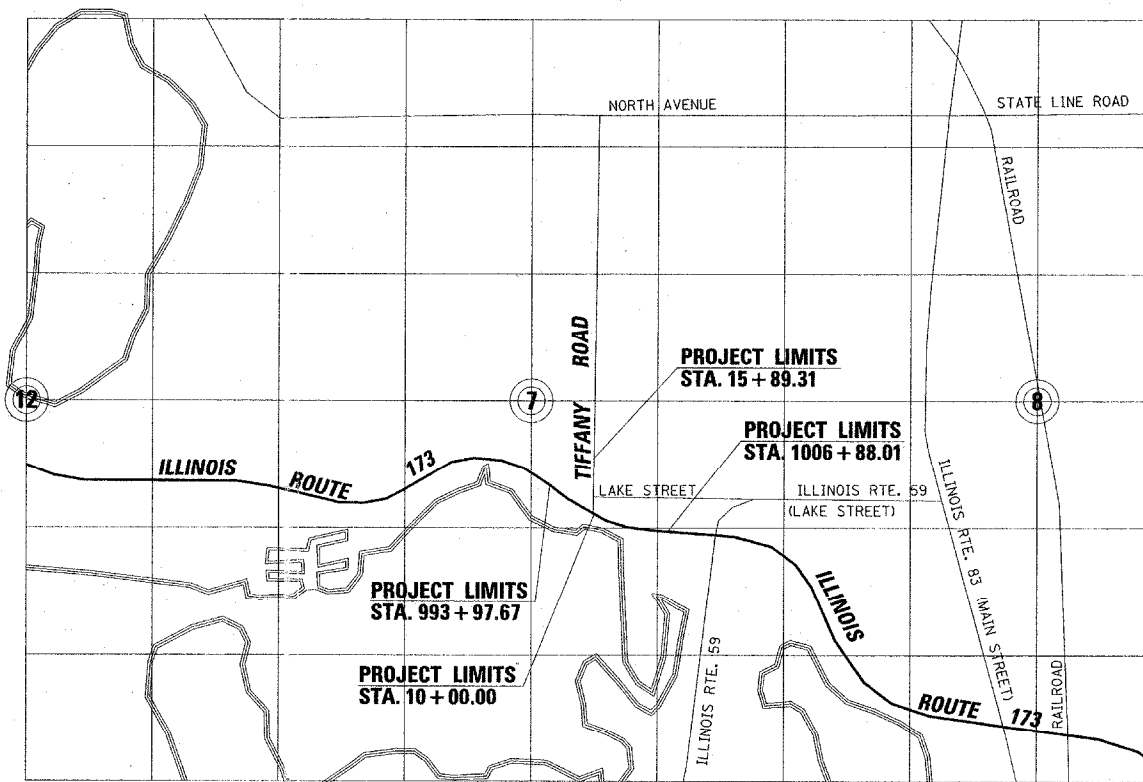
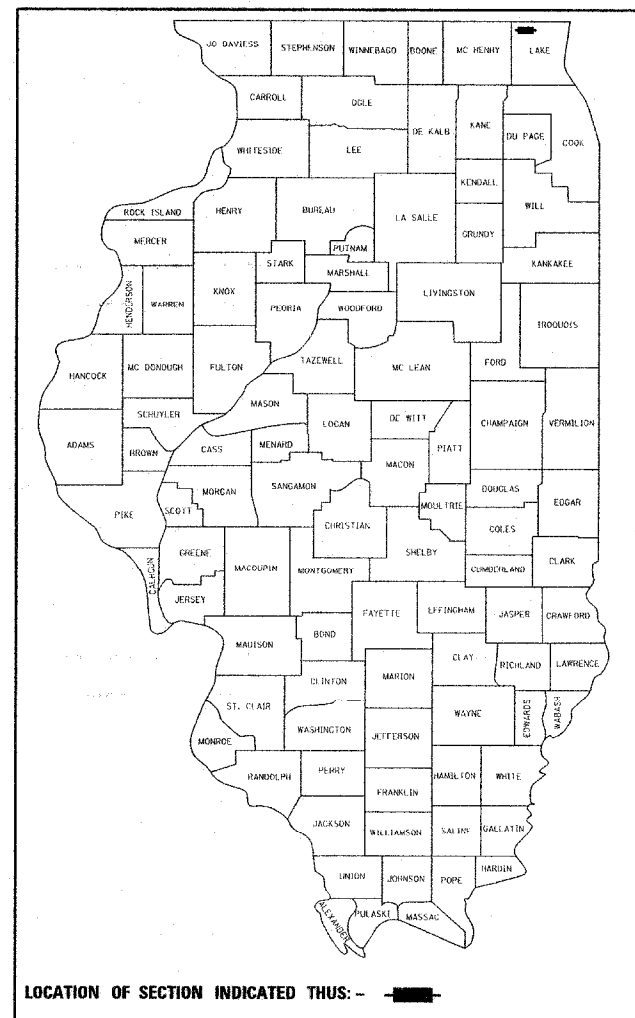
F.A.P. RTE. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEETS 62	SHEET NO. 26
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L28	

P:\2011\ME11007_Ver-Var-PhII\CA00\W003_IL173.st.Tiff.Rd\Shs\DI60L28-shr.pmk.Tiff.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

ROUTE IL. ROUTE 173
SECTION @ TIFFANY ROAD
PROJECT R-91-024-10
LAKE COUNTY
DEED D-91-449-06



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

GROSS LENGTH	IL 173 =	1290.34 FT. =	0.244 MILE
	TIFFANY ROAD =	589.31 FT. =	0.112 MILE
NET LENGTH	IL 173 =	770 FT. =	0.146 MILE
	TIFFANY ROAD =	589.31 FT. =	0.112 MILE

CONTRACT NO.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

_____ 20 _____

 ENGINEER OF DESIGN AND ENVIRONMENT

_____ 20 _____

 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

RECEIVED
 OCT 11 2012
 PLATS & LEGALS

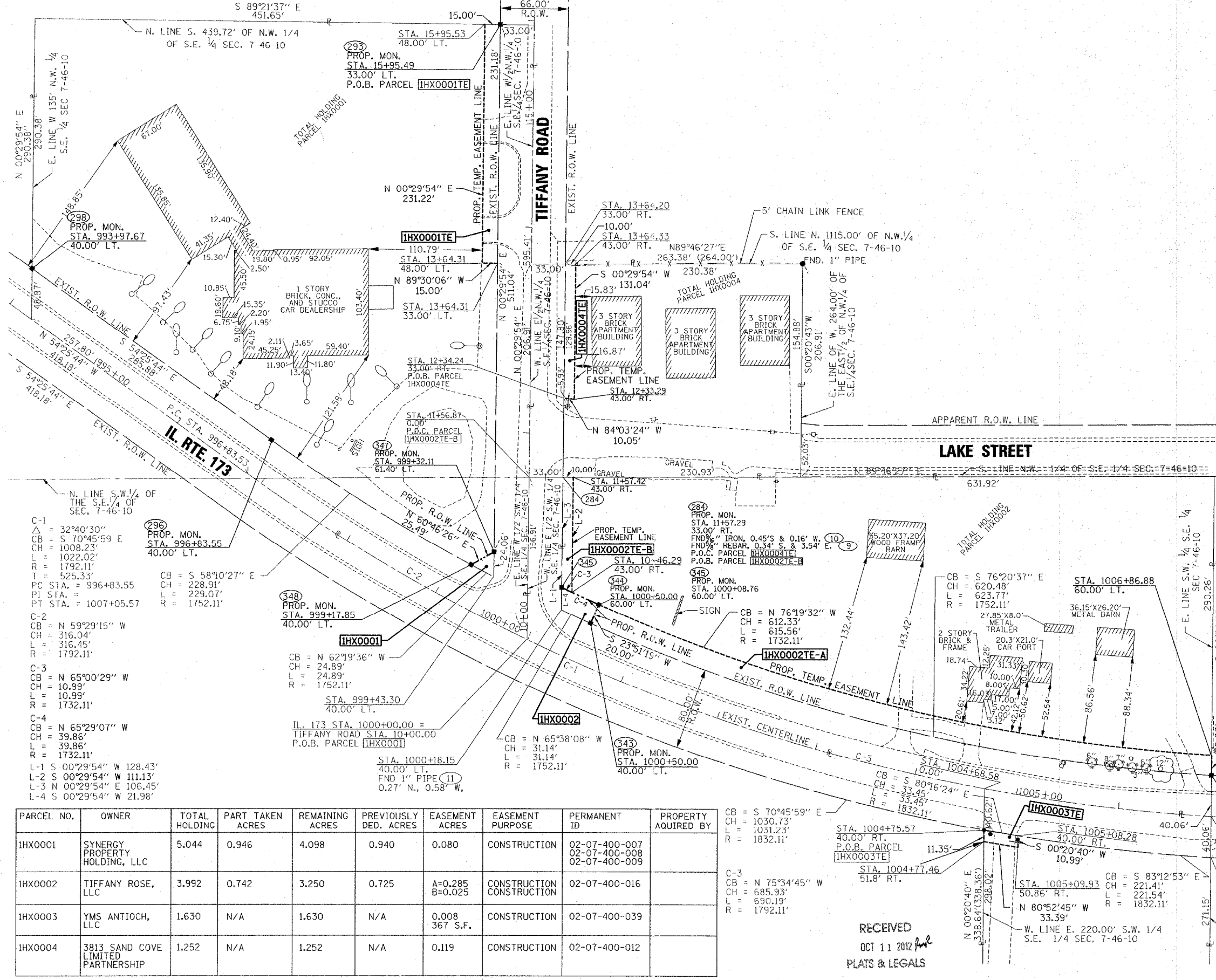
PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PART OF THE SE 1/4 OF SECTION 7, T.46N., R.10E., OF THE 3rd. P.M. LAKE COUNTY, ILLINOIS

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- COORDINATE POSITION NUMBER
- SECTION LINE
- QUARTER SECTION LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED ENGLISH DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- METRIC DIMENSION
- CUT CROSS FOUND OR SET
- EXISTING BUILDING
- IRON OR PIPE FOUND
- IRON SET

SCALE: 1" = 50'



- T1, T2, T3 THESE STAKES REFERENCE FOUND MONUMENTATION. SET 9/16 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1, BT2, BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND MONUMENTATION. BURIED 9/16 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE TP FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- S 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 9/16 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY DISK POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- P PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET. ALL DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

STATE OF ILLINOIS)
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, ROBERT A. ROGINA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HERE ON IN SECTION 7, TOWNSHIP 46 NORTH, AND RANGE 10 EAST 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 JOLIET, ILLINOIS, THIS 11th DAY OF October, 2012 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
 LICENSE EXPIRES 11/30/12

NOTE:
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS STANDARDS FOR A BOUNDARY SURVEY

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83

SHEET ONE IS A COVER SHEET AND IS NOT RECORDED



PARCEL NO.	OWNER	TOTAL HOLDING	PART TAKEN ACRES	REMAINING ACRES	PREVIOUSLY DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT ID	PROPERTY ACQUIRED BY
IHX0001	SYNERGY PROPERTY HOLDING, LLC	5.044	0.946	4.098	0.940	0.080	CONSTRUCTION	02-07-400-007 02-07-400-008 02-07-400-009	
IHX0002	TIFFANY ROSE, LLC	3.992	0.742	3.250	0.725	A=0.285 B=0.025	CONSTRUCTION	02-07-400-016	
IHX0003	YMS ANTIOCH, LLC	1.630	N/A	1.630	N/A	0.008 367 S.F.	CONSTRUCTION	02-07-400-039	
IHX0004	3813 SAND COVE LIMITED PARTNERSHIP	1.252	N/A	1.252	N/A	0.119	CONSTRUCTION	02-07-400-012	

RECEIVED
 OCT 11 2012
 PLATS & LEGALS

REVISION DATE: 06/28/12
 REVISION: PER IDOT REVIEW

PREPARED BY: **ROGINA & ASSOCIATES, LTD.**
 ENGINEERS SURVEYORS PLANNERS
 93 Caterpillar Drive · Joliet, Illinois · 815/729-0777 · FAX 815/729-0782
 PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001106

ILLINOIS DEPT. OF TRANSPORTATION
 PLAT OF HIGHWAYS
 IL. ROUTE 173
 SECTION @ TIFFANY ROAD COUNTY LAKE
 PROJECT# STA 993+97 TO STA 1007+00
 SCALE: 1"=50' SHEET NO. 2 OF 4

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

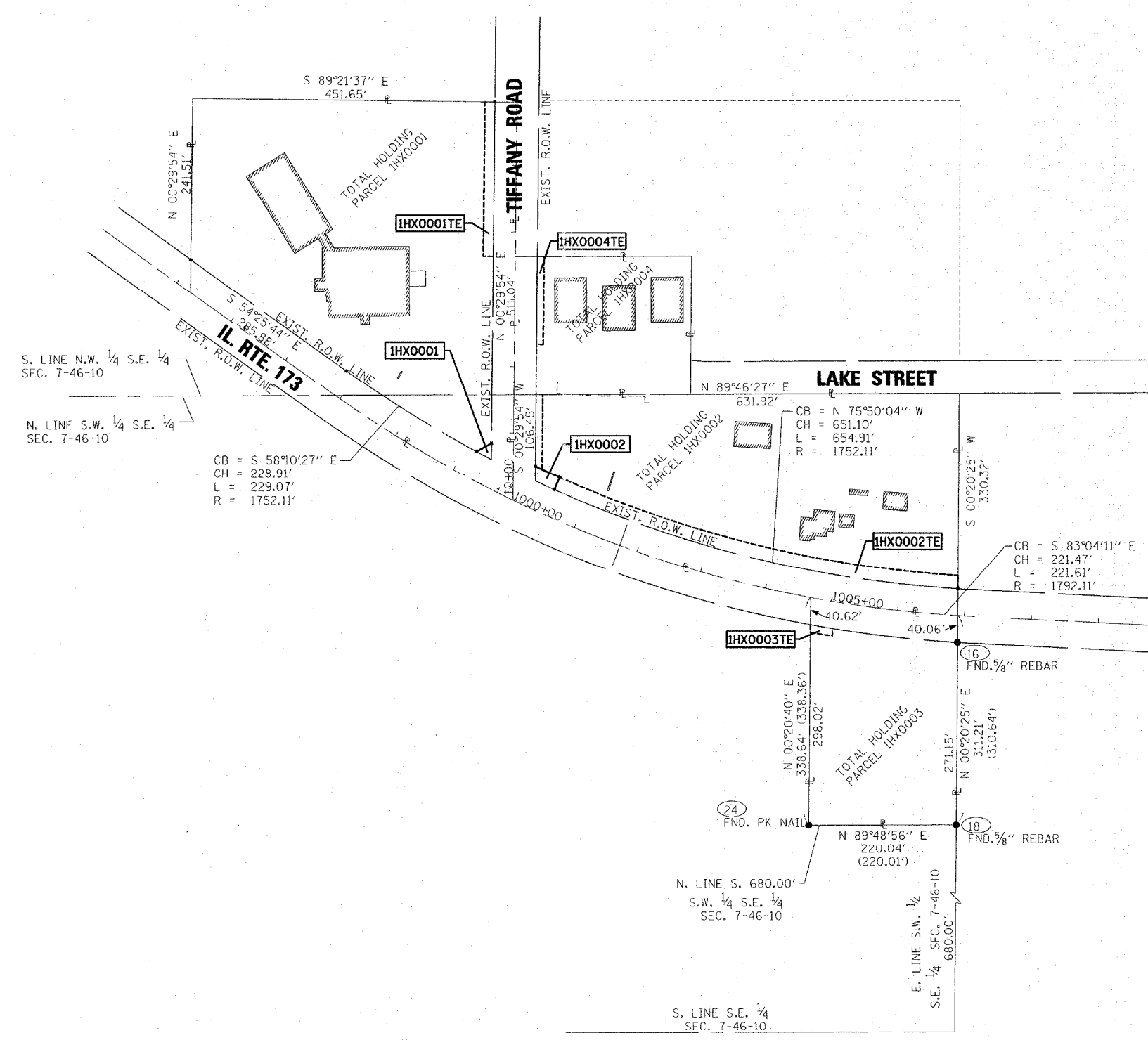
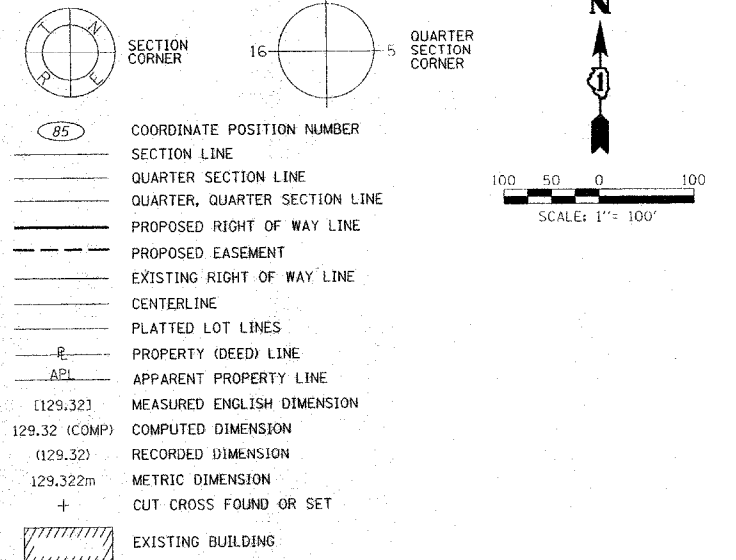
MADE BY: J.P.S./M.R.R.

SCANNED

DATE: 10/11/2012
 FILE: 10000002TE-A.dwg
 USER: J. Rogina

PART OF THE SE 1/4 OF SECTION 7, T.46N., R.10E., OF THE 3rd. P.M. LAKE COUNTY, ILLINOIS

LEGEND



- IRON OR PIPE FOUND ○ IRON SET
- T1 THESE STAKES REFERENCE FOUND MONUMENTATION. SET 9/16 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND MONUMENTATION. BURIED 9/16 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE TP 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 9/16 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY DISK 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. ALL DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.

STATE OF ILLINOIS)
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, ROBERT A. ROGINA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HERE ON IN SECTION 7, TOWNSHIP 46 NORTH, AND RANGE 10 EAST 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 JOLIET, ILLINOIS, THIS 11th DAY OF October, 2012 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
LICENSE EXPIRES 11/30/12



NOTE:
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS STANDARDS FOR A BOUNDARY SURVEY

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83
SHEET ONE IS A COVER SHEET AND IS NOT RECORDED

PREPARED BY: **ROGINA & ASSOCIATES, LTD.**
ENGINEERS SURVEYORS PLANNERS
93 Caterpillar Drive - Joliet, Illinois - 815/729-0777 - FAX 815/729-0782
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001106

RECEIVED
OCT 11 2012
PLATS & LEGALS

ILLINOIS DEPT. OF TRANSPORTATION
PLAT OF HIGHWAYS
IL. ROUTE 173
SECTION @ TIFFANY ROAD COUNTY LAKE
PROJECT# JOB# R-91-024-10
STA TO STA
SCALE: 1"=100' SHEET NO. 3 OF 4
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

MADE BY:

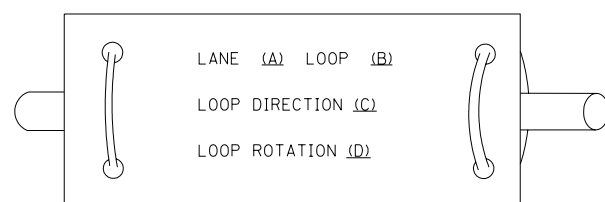
SCANNED

PLOT DATE = 10/11/2012
FILE NAME = I:\PROJECTS\2012\10\11\2012\101112012\101112012.dwg
USER NAME = rrogina

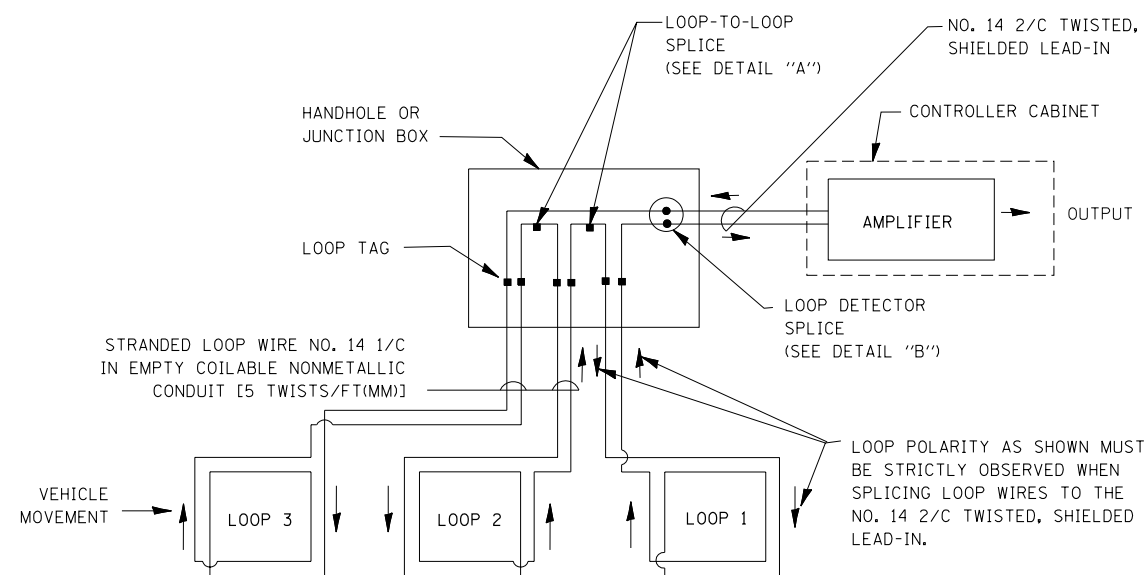
LOOP DETECTOR NOTES

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 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.
- 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.
- 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

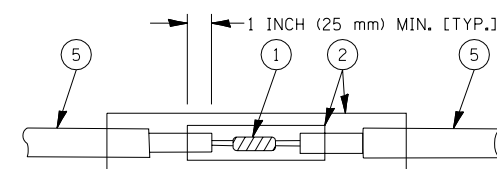


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

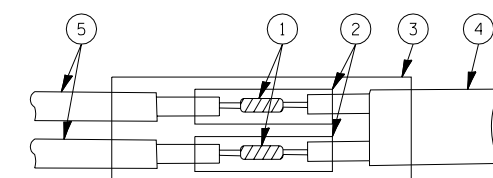


DETECTOR LOOP WIRING SCHEMATIC

- 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.

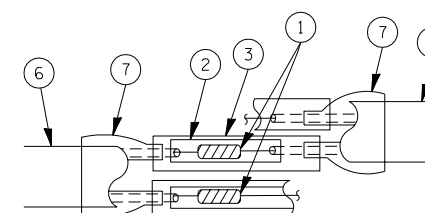


DETAIL "A"
LOOP-TO-LOOP SPLICE

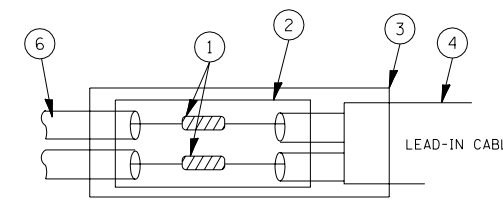


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
ct:\pw\work\PWIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

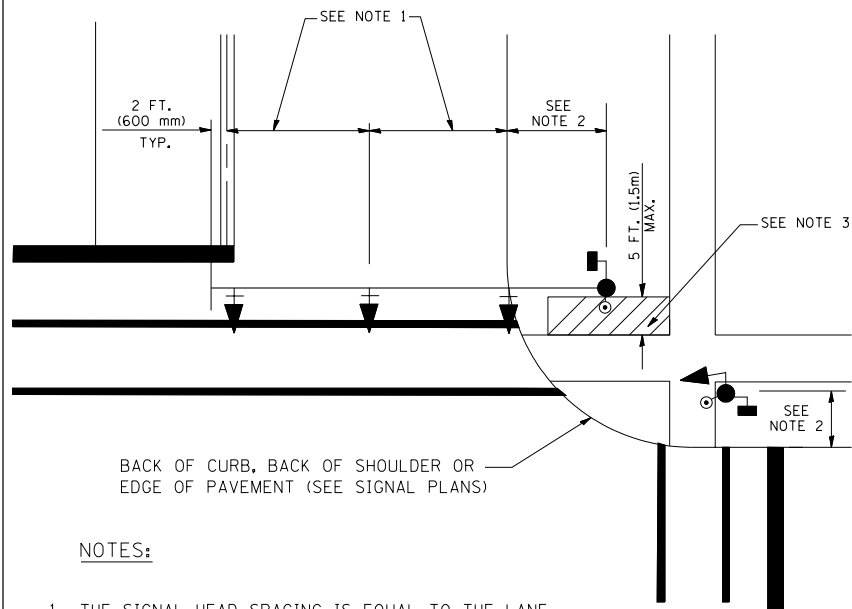
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	31
TS-05			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

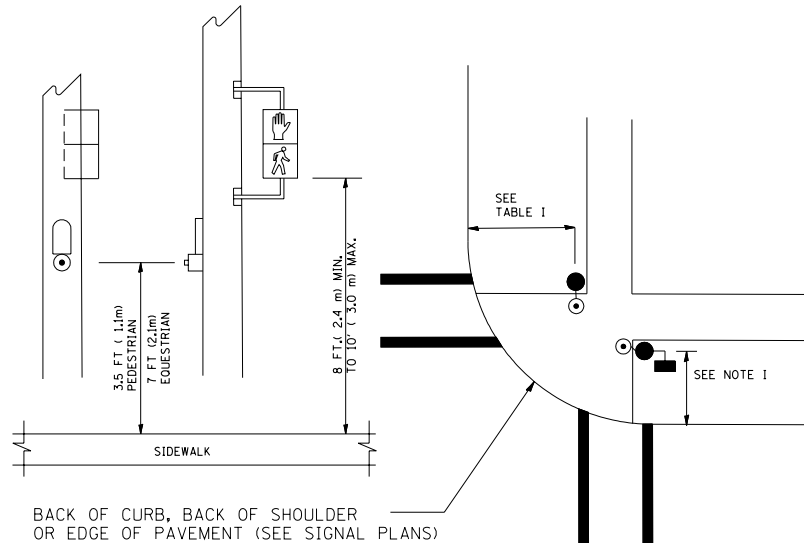
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

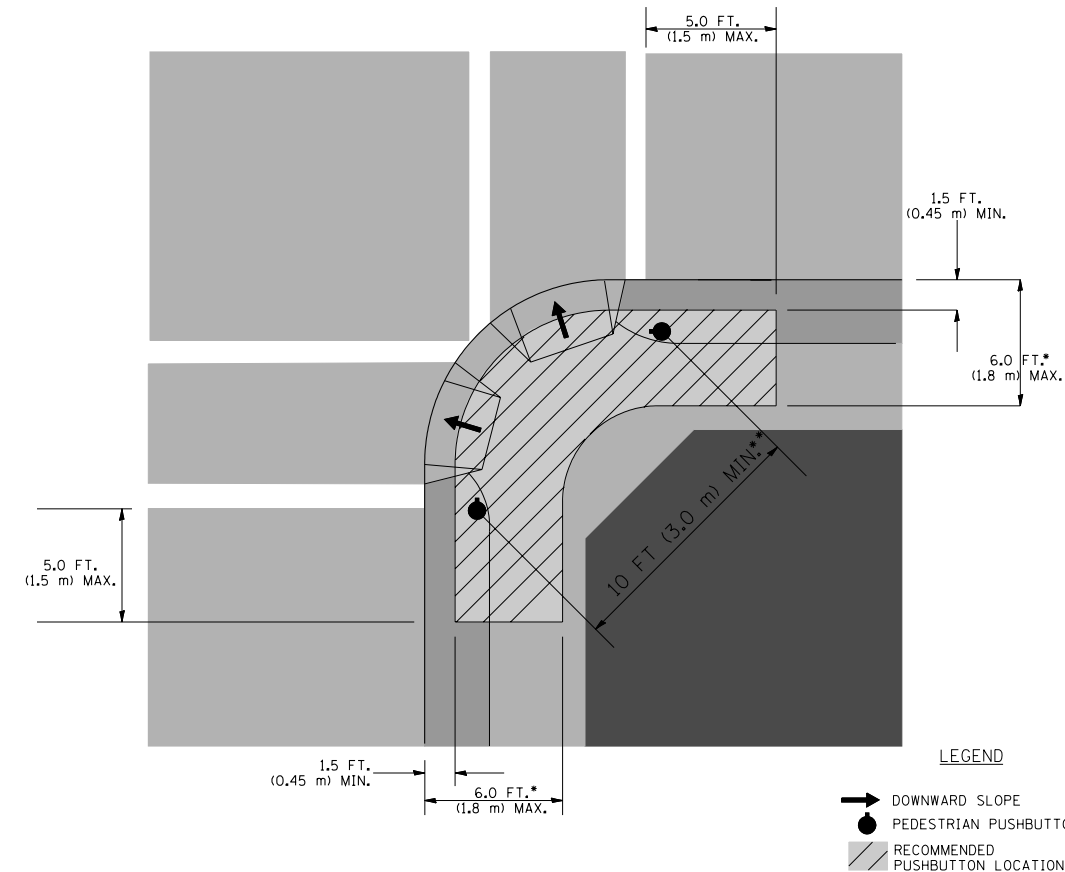
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

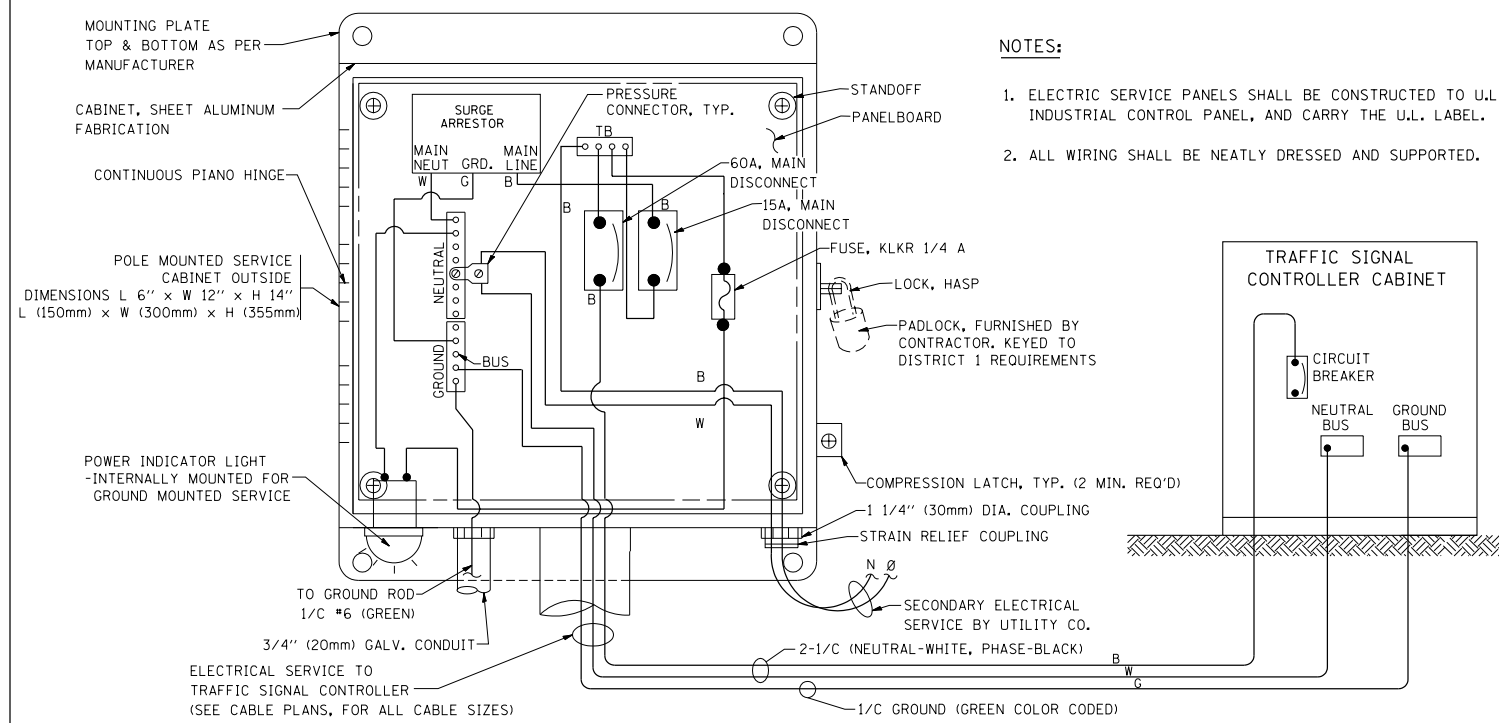
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

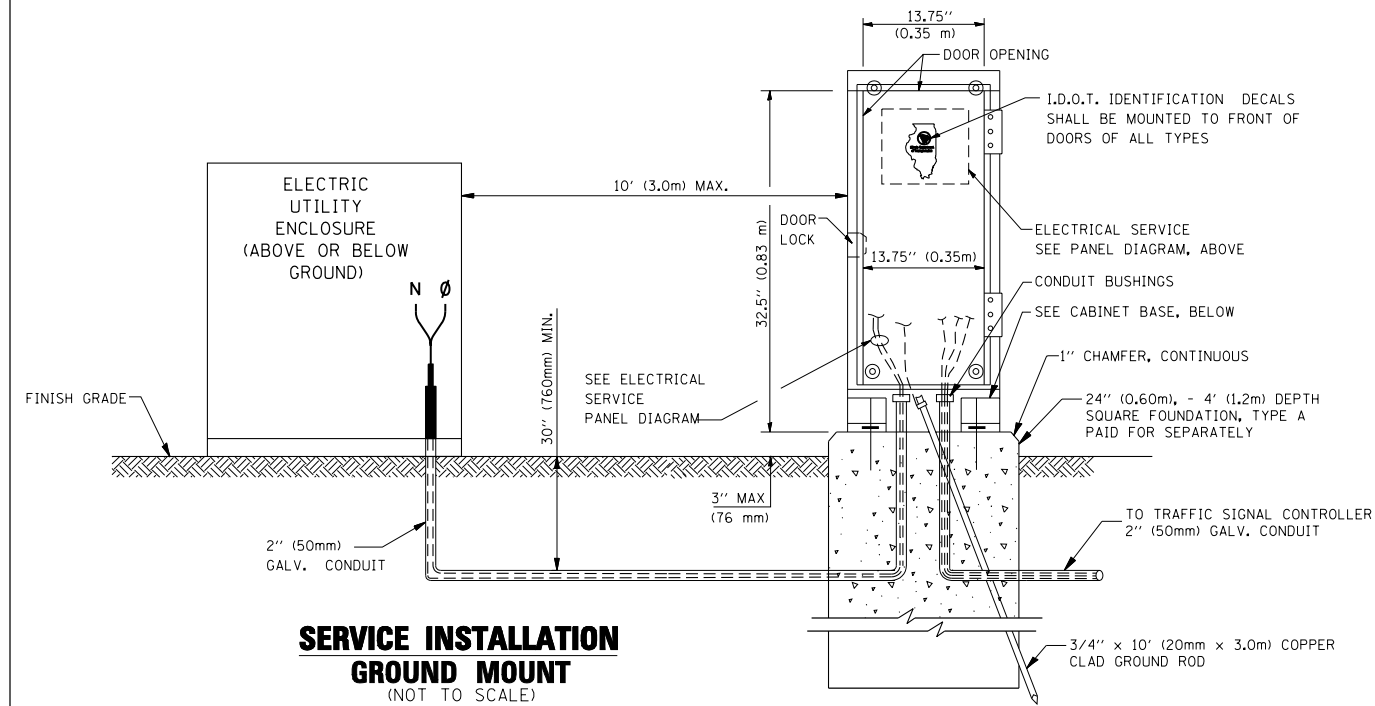
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

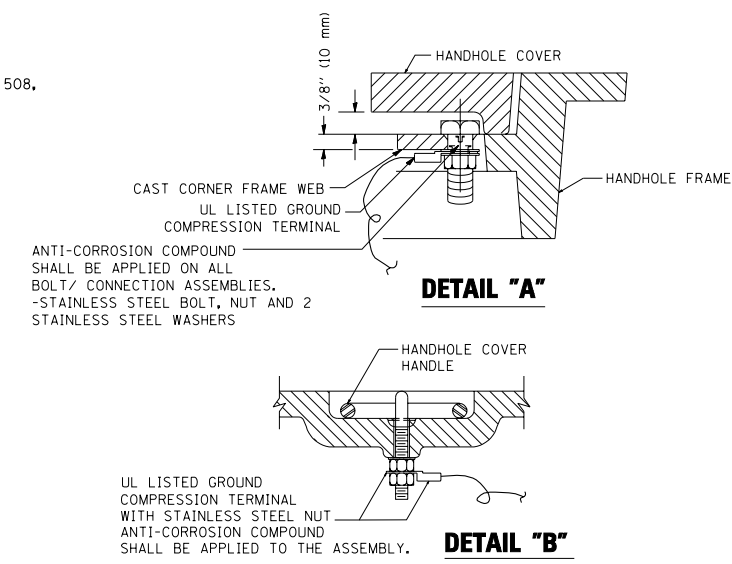
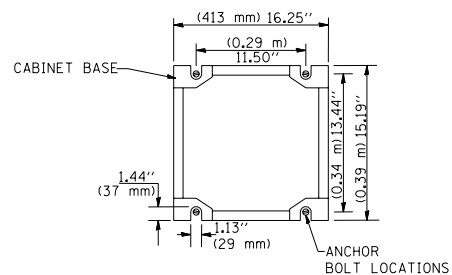


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

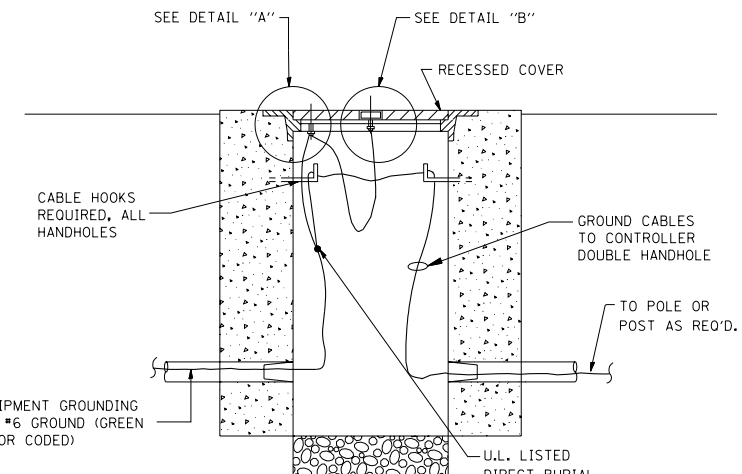
CABINET – BASE BOLT PATTERN
 (NOT TO SCALE)



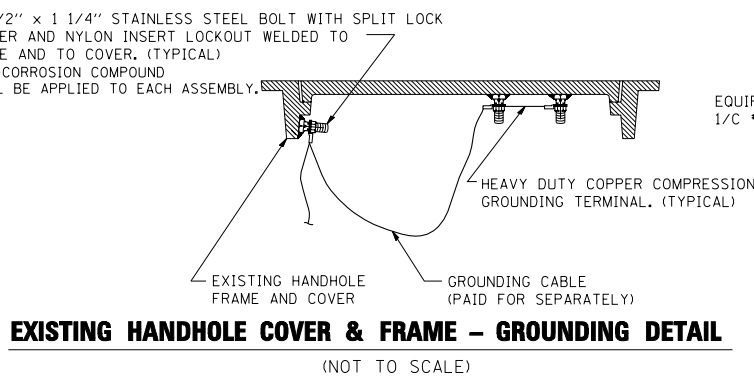
NOTES:

GROUNDING SYSTEM

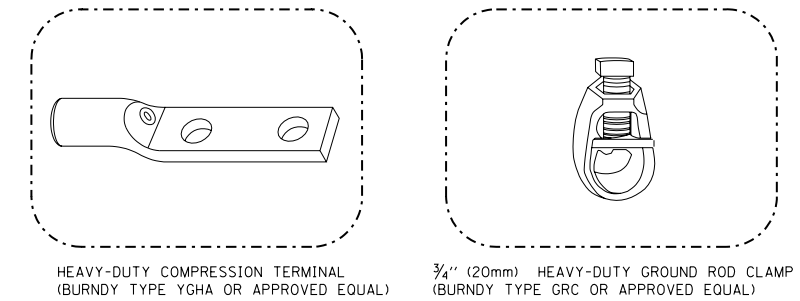
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



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

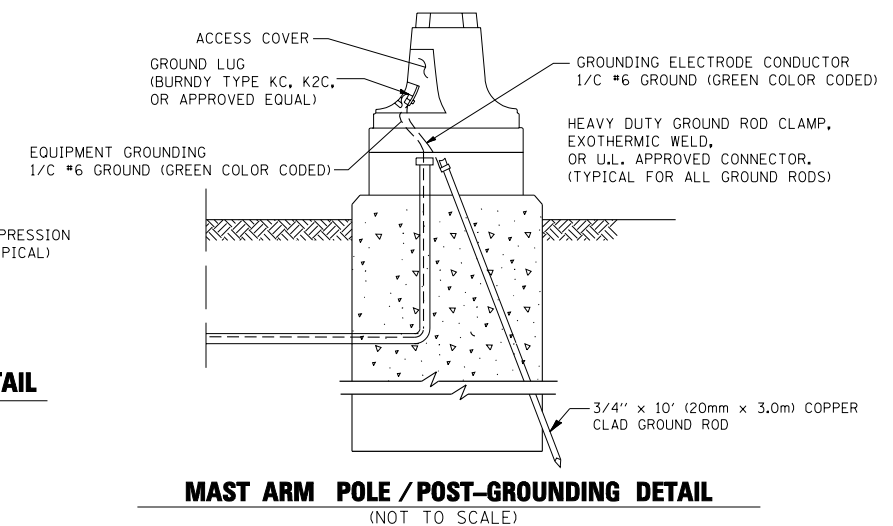


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)



NOTES:

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



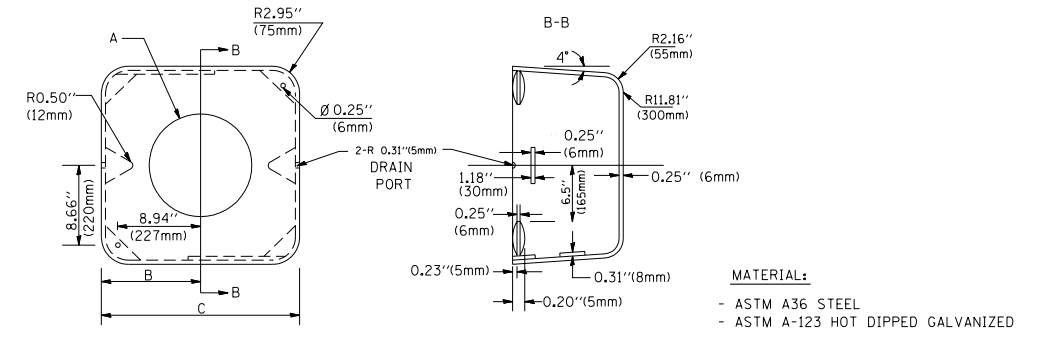
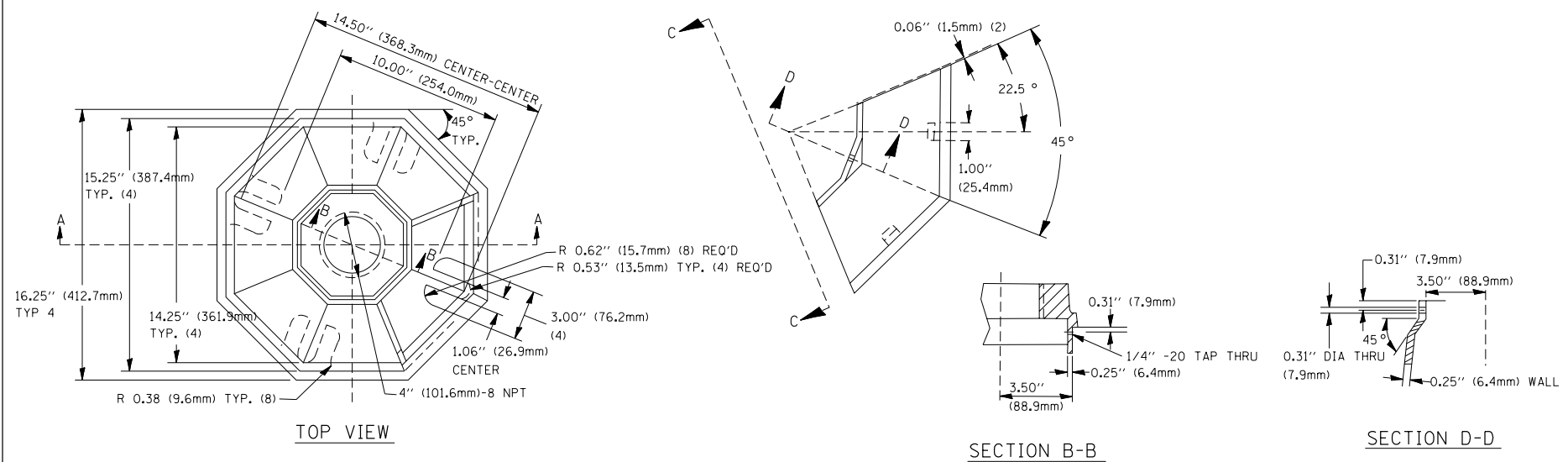
MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
ce:\pwork\pwork\PWIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.

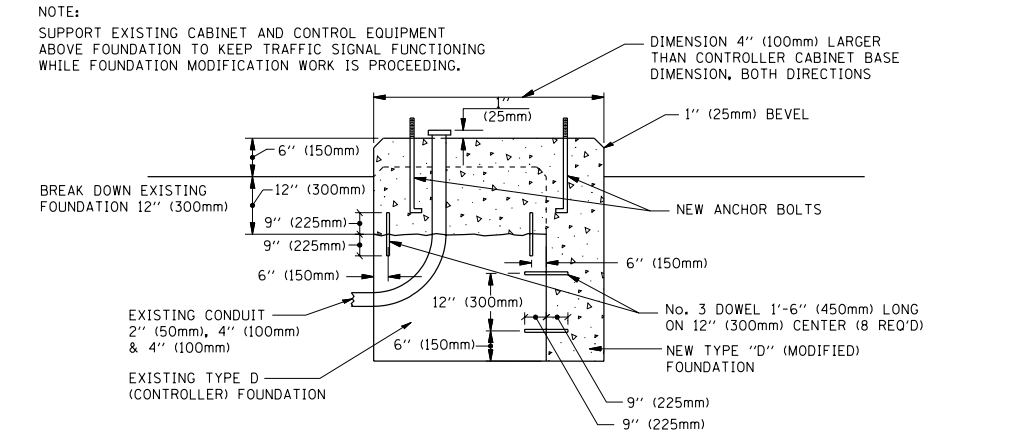
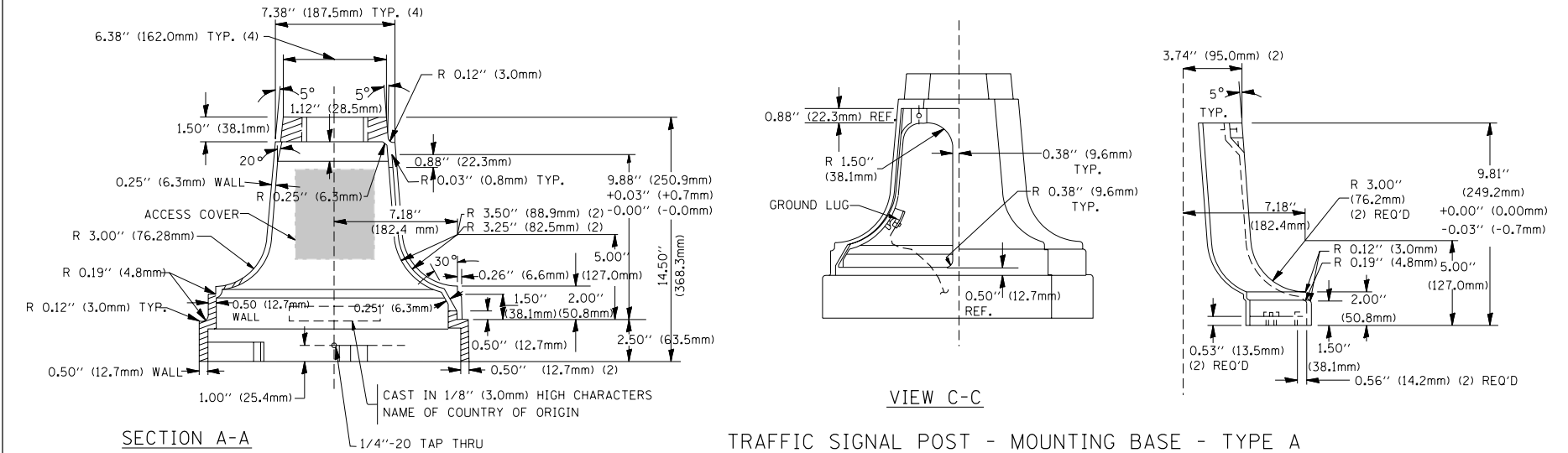
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-A-1	LAKE	62	33
TS-05		CONTRACT NO. 60L28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



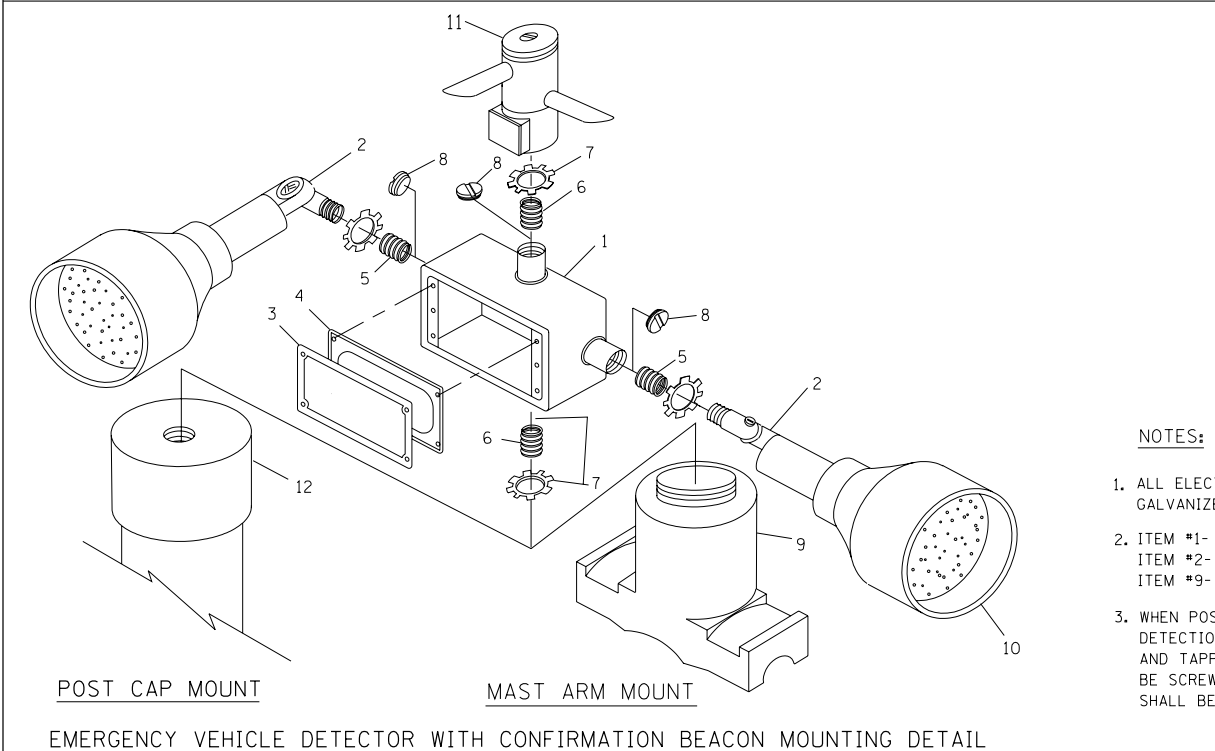
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\"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

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.



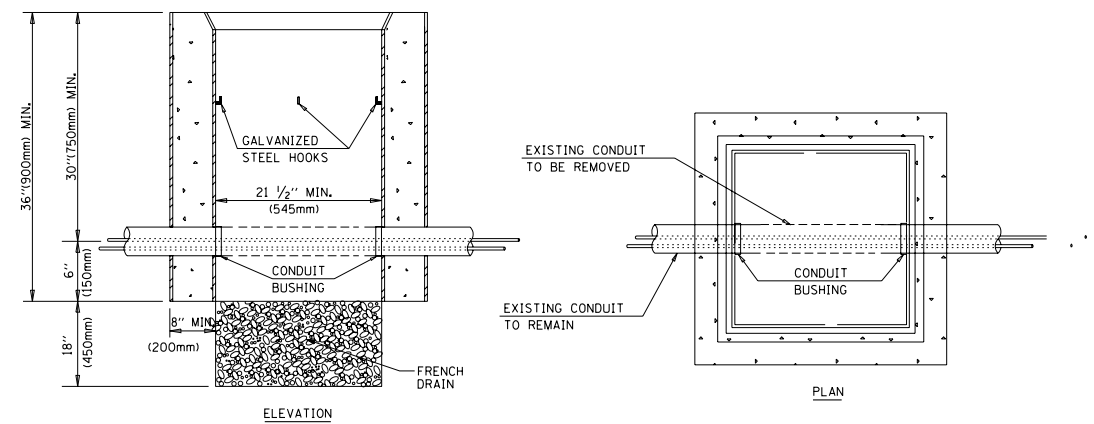
MODIFY EXISTING TYPE "D" FOUNDATION



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-0-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.



NOTES:

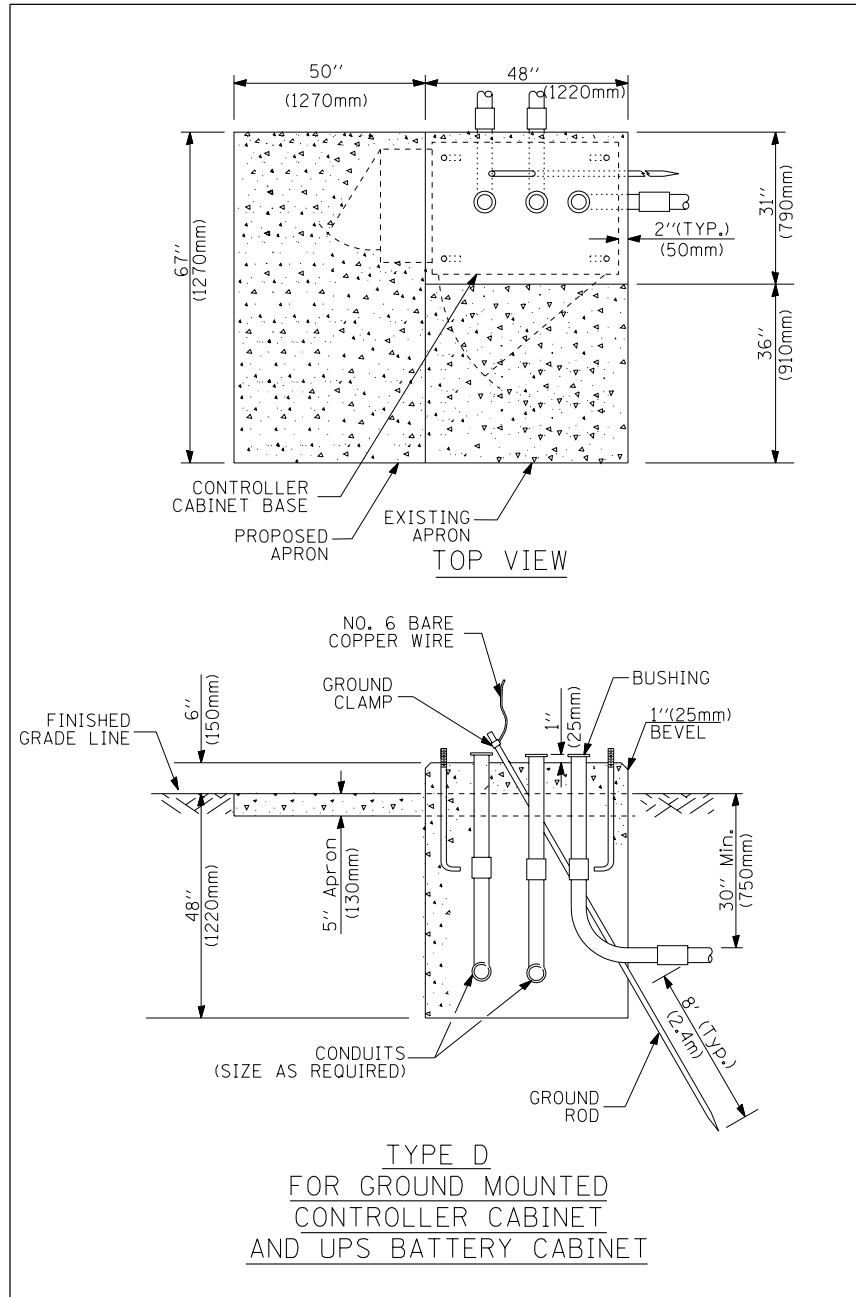
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -
ca:\pwwork\pwwid\bauderdl\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED - DAD	REVISED -
PLOT DATE = 11/4/2009		DATE - 10-28-09	REVISED -

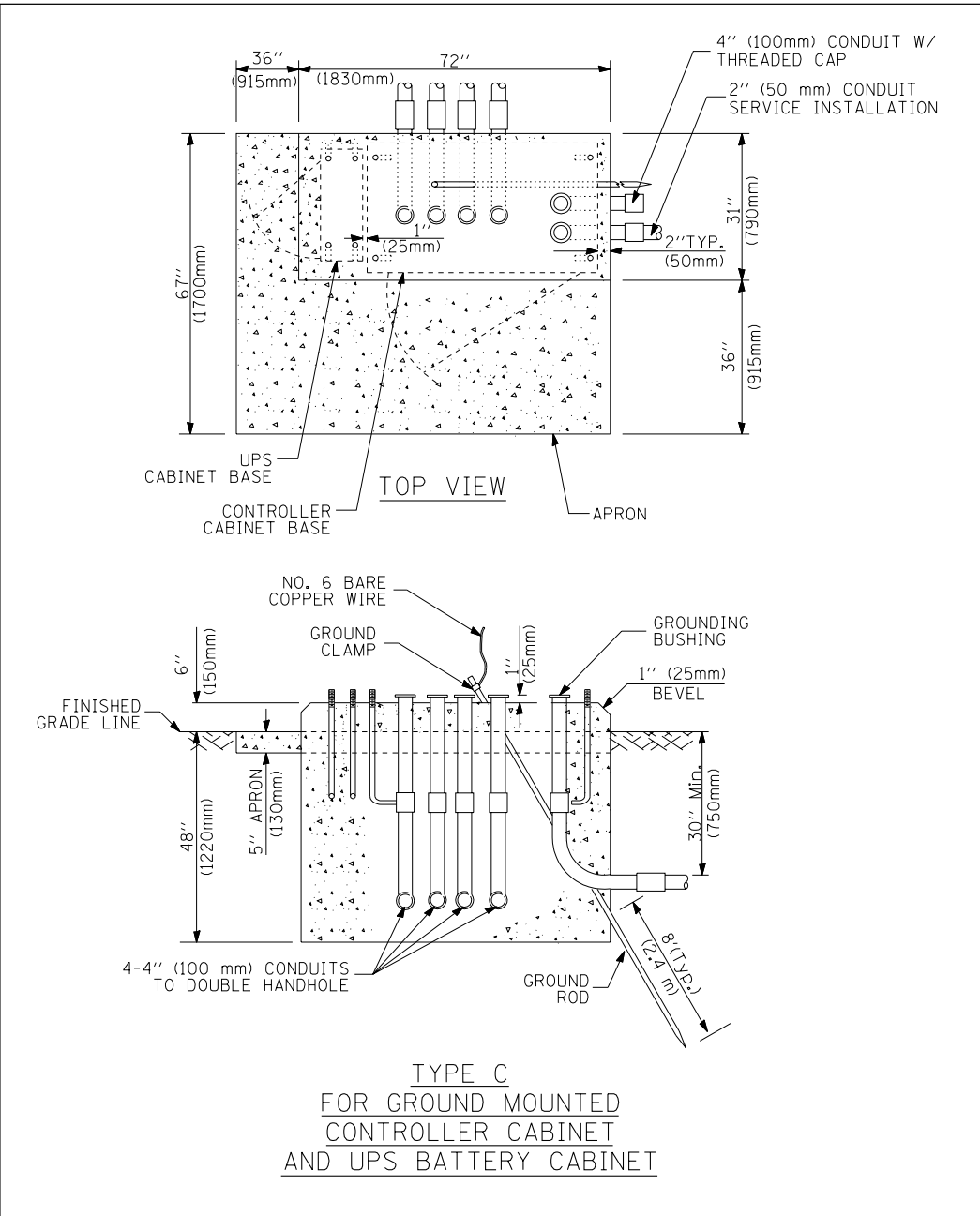
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 4 OF 6 SHEETS	STA.	TO STA.

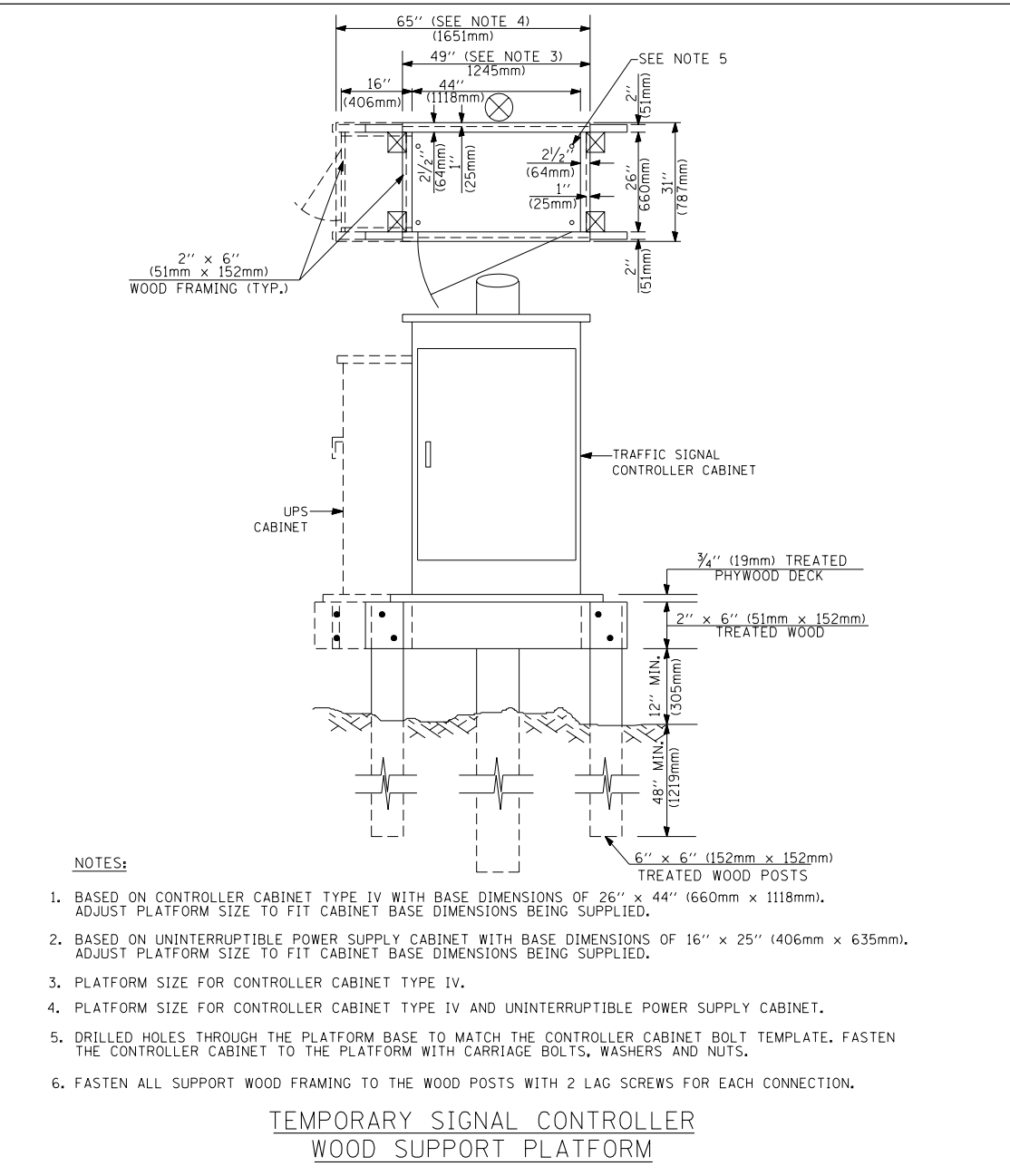
F.A.P. RTE. 303	SECTION 134-A-1	COUNTY LAKE	TOTAL SHEETS 62	SHEET NO. 34
TS-05		CONTRACT NO. 60L28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



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



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)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG	REVISED -
ct:\pwwork\p\WIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134A-1	LAKE	62	35
TS-05			CONTRACT NO. 60L28	
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			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
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				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) 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)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				RAILROAD SYMBOLS			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD CONTROL CABINET			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				FLASHING SIGNAL			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				CROSSING GATE			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSBUCK			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG/BCK	REVISED -
ce:\pwwork\PIWIDOT\BAUERDL\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

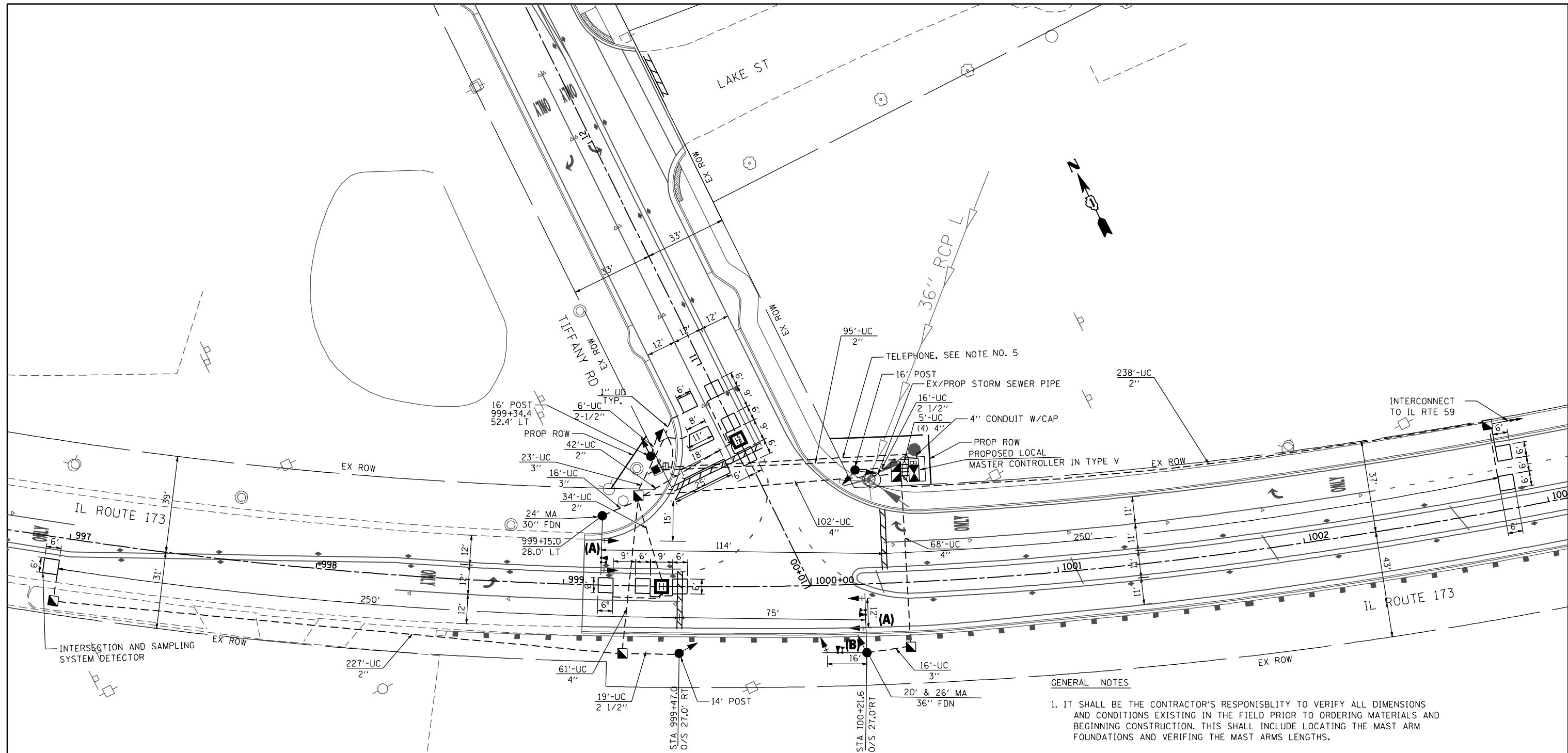
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	36
TS-05		CONTRACT NO. 60L28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

P:\2011\ME11007_Ver-Var-Phil\CADD\W003_IL173.et.Tiff_Ret\Shs\0160L28-sht-TS11.dgn
 FILE NAME : P:\2011\ME11007_Ver-Var-Phil\CADD\W003_IL173.et.Tiff_Ret\Shs\0160L28-sht-TS11.dgn
 USER : JLD
 USER NAME : Millennium Professional Services



GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
5. THE COST OF THE TELEPHONE DROP SHALL BE INCLUDED IN THE COST OF THE MASTER CONTROLLER SEE SPECIFICATION FOR MASTER CONTROLLER.
6. FOR (A) AND (B) SIGN DETAIL SEE SHEET NO. 39



MILLENNIA PROFESSIONAL SERVICES
 200 22ND Street, Suite 214, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/5/2013	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

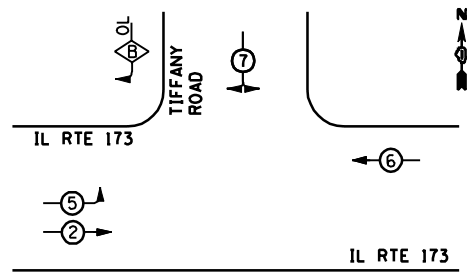
**IL ROUTE 173 AT TIFFANY ROAD
 TRAFFIC SIGNAL INSTALLATION PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	33
CONTRACT NO.			60L28	

TS-11

PROPOSED CONTROLLER SEQUENCE

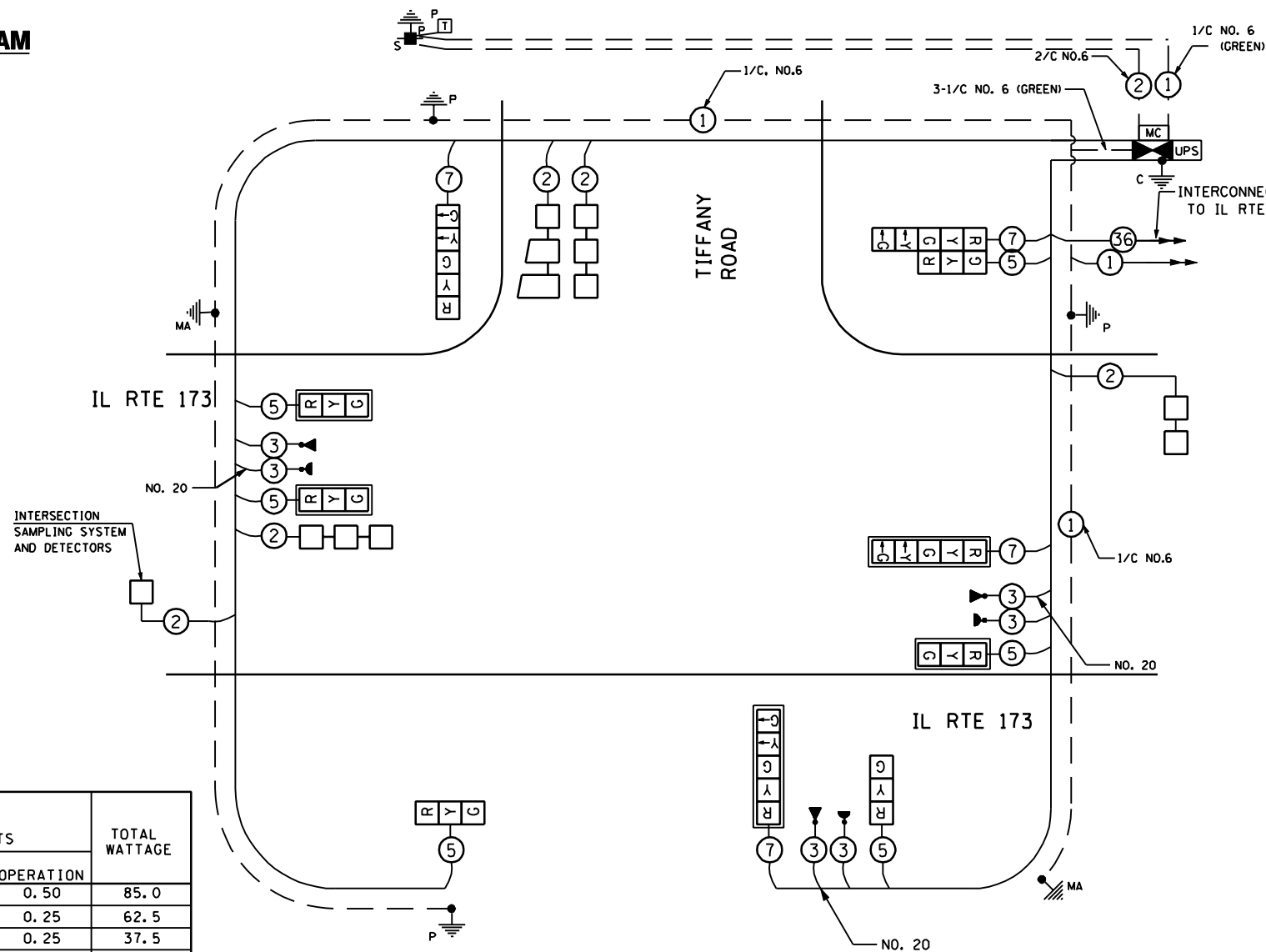


LEGEND

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE
 B = 7 + 5

PHASE DESIGNATION DIAGRAM



CABLE PLAN



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	57.5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	625
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	41
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	55
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	251
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1219
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	388
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	972
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	569
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	441
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	229
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE 1	FOOT	425
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	388
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

* VILLAGE OF ANTIOCH

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE MATCHING WITH PROPOSED ADJACENT SYSTEM AT IL RTE 59

I. D. O. T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE L. E. D.	OPERATION	
SIGNAL (RED)	10	135	17	0.50	85.0
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84	120	0.05	
VIDEO VEH. SENSOR		15	15	1.00	
FLASHER				0.50	
TOTAL					294.6

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 CENTER CT/SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: ROSE PECORARO
 PHONE: (847) 608-2331
 COMPANY: COMMONWEALTH EDISON

200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.2566 fax
 www.mps-ill.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 2/5/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 173 AT TIFFANY ROAD
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND SCHEDULE OF QUANTITIES**

SCALE: N/A SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2011-071-N	COOK/KANE	56	34
CONTRACT NO. 60P90				

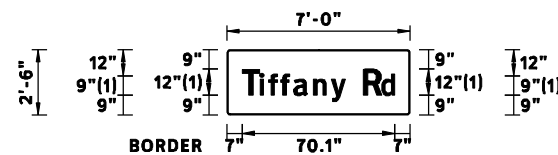
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

FILE NAME : P:\2011\ME11007_Ver-Vor-Ph1\CADD\W083_IL173.etl\Tiff_Rd\Shs\0160L28-sht-TS12.dgn
 USER : M1111111111
 PLOT DATE : 2/5/2013 10:00:00 AM

TS-12

SIGN DETAIL
1:80

SIGN - (A)



BORDER
R=1.5"
TH=0.5"

FONT:
(1) ClearviewHwy-4-W

Panel Style: Street Name 12-9in.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

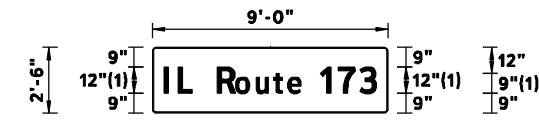
SIGN NUMBER	name
WIDTH x HGHT.	7'-0" x 2'-6"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE		
T	i	f	f	a	n	y								ClearviewHwy-4-W	
7	15	19.2	24.7	30.6	39.7	47.9	54.4							48.1	12,97.3
R	d														ClearviewHwy-4-W
62.6	70.9													14.5	12,97.3

SIGN DETAIL
1:80

SIGN - (B)



BORDER
R=1.5"
TH=0.5"

FONT:
(1) ClearviewHwy-4-W

Panel Style: Street Name 12-9in.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	9'-0" x 2'-6"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE		
I	L		R	o	u	t	e								ClearviewHwy-4-W
5.2	11.6	18.1	29.7	38	47.5	55.6	62	68.3						64.4	12,97.3
1	7	3													ClearviewHwy-4-W
77	85.3	95.1												25.8	12

P:\2011\ME11007_VerVar_Phil\CADD\W003_IL173.et.Tiff_Rd\Shs\DI60L28-sht-sign.dgn
 USER: ME11007_VerVar_Phil
 MILLENNIA PROFESSIONAL SERVICES

MILLENNIA PROFESSIONAL SERVICES
 200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/4/2013	REVISED -	

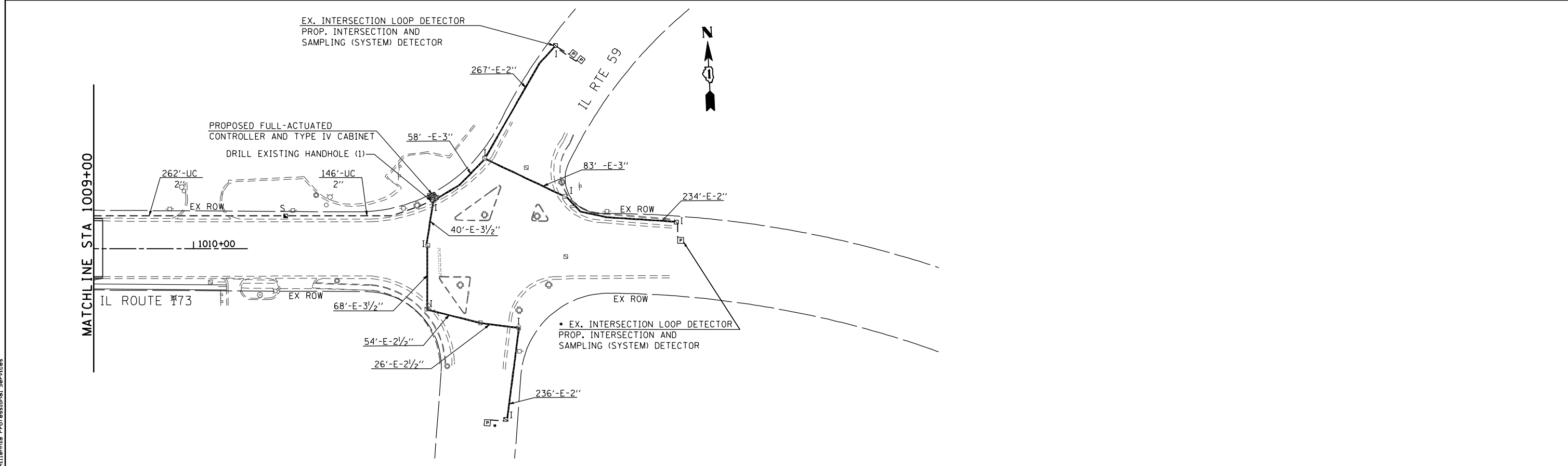
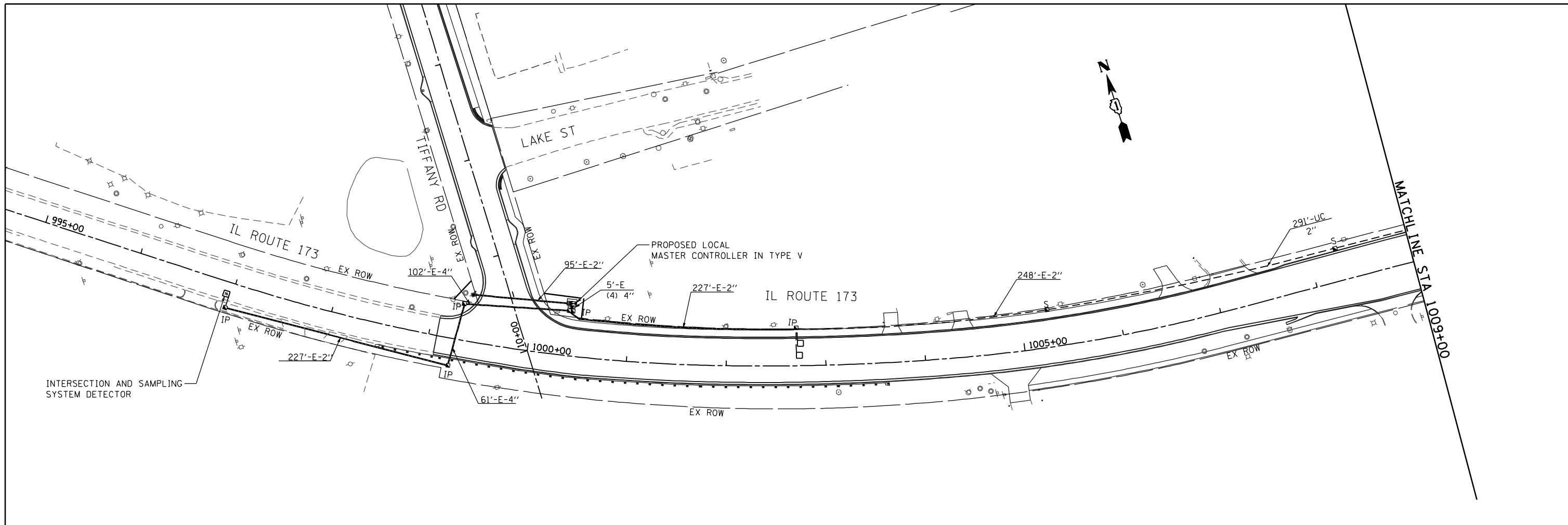
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 173
 AT TIFFANY ROAD**

SIGN DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	39
CONTRACT NO.				60L28

SCALE: SHEET NO. OF SHEETS STA. TO STA.



FILE NAME = P:\2011\ME11007_VerVer_Phi\CADD\W003_IL173.et.Tiff_Rd\Shs\0160L28-sht-1tc01.Interconnect.dgn
 USER NAME = J:\19196
 MILLENNIA PROFESSIONAL SERVICES



200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/5/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 173
AT TIFFANY ROAD

TRAFFIC SIGNAL INTERCONNECT PLAN

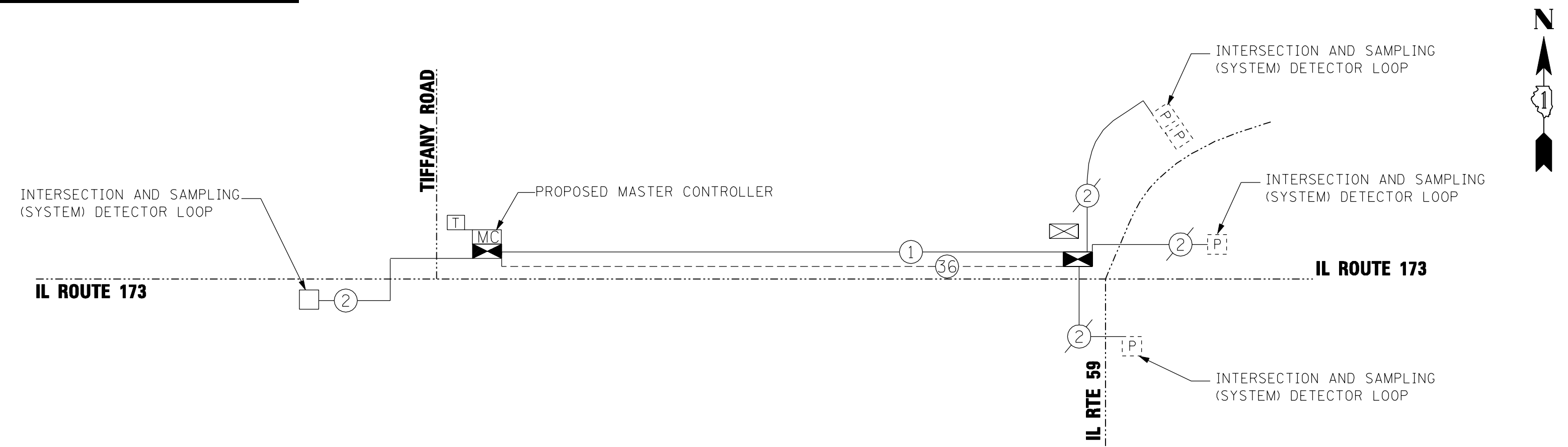
SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 999+08.00 TO STA. 1009+09.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	40
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L28	

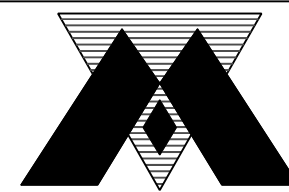
P:\2011\ME11007_VerVer_Phi\CADD\W003_IL173.et.Tiff_Rd\Shs\0160L28-sht-1tc01.Interconnect.dgn

SYSTEM INTERCONNECT SCHEDULE OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	947
81400100	HANDHOLE	EACH	3
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86000100	MASTER CONTROLLER	EACH	1
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1272
87900200	DRILL EXISTING HANDHOLE	EACH	1
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1272
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1



FILE NAME = P:\2011\ME11007_Ver_Ver_Plan\CADD\W003_IL173.et.Tiff_Rd\Shots\DI60L28-sh1-ITC2-Schematics.dgn
 USER NAME = Millennium Professional Services



200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED -	CJD	REVISED -	
DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	2/5/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

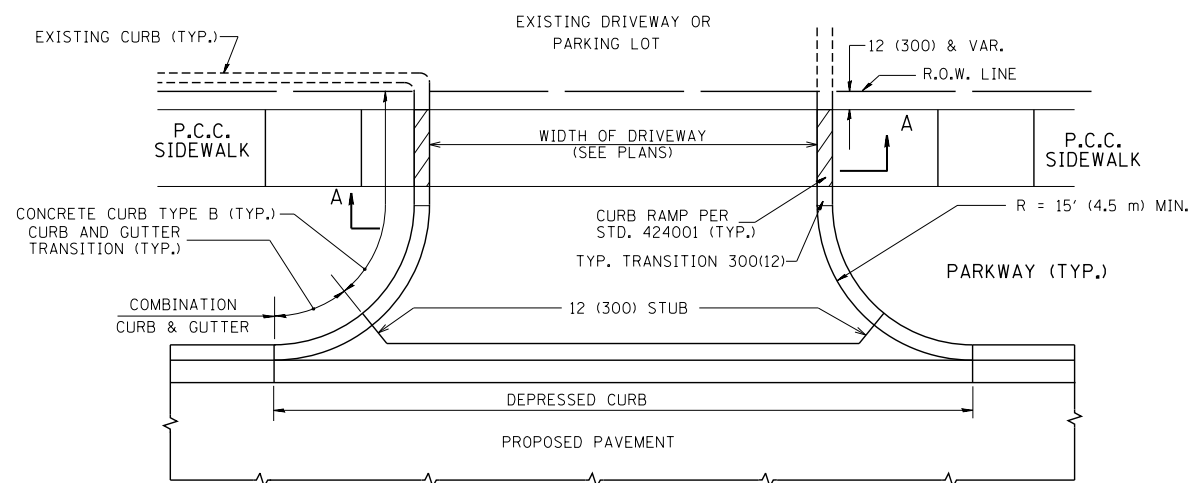
IL ROUTE 173
AT TIFFANY ROAD

INTERCONNECT SCHEMATIC

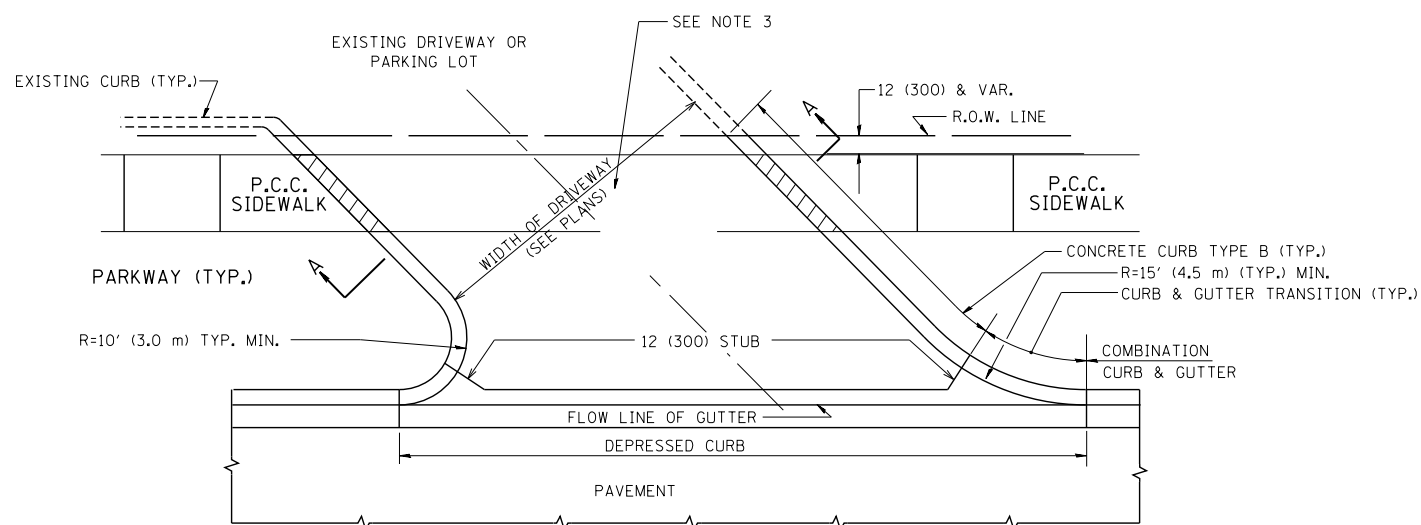
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	41
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L28	

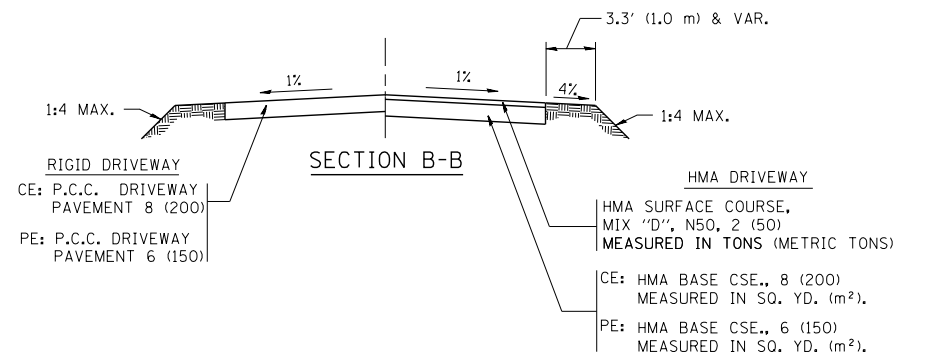
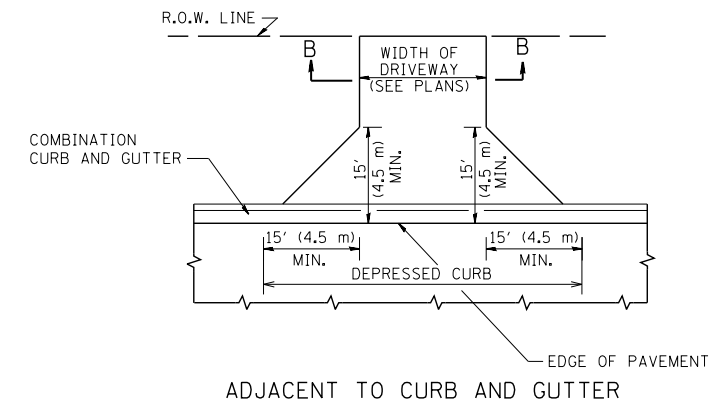
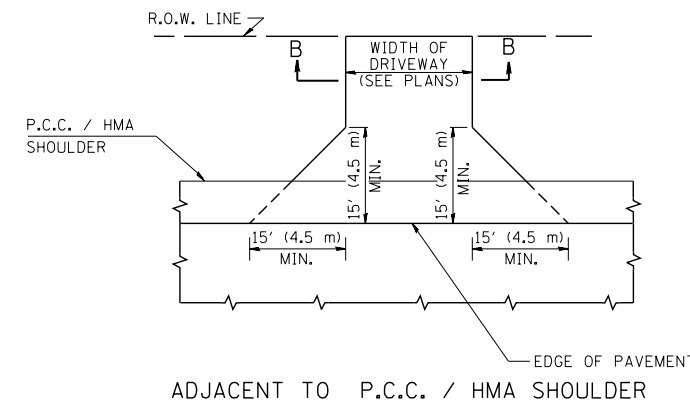
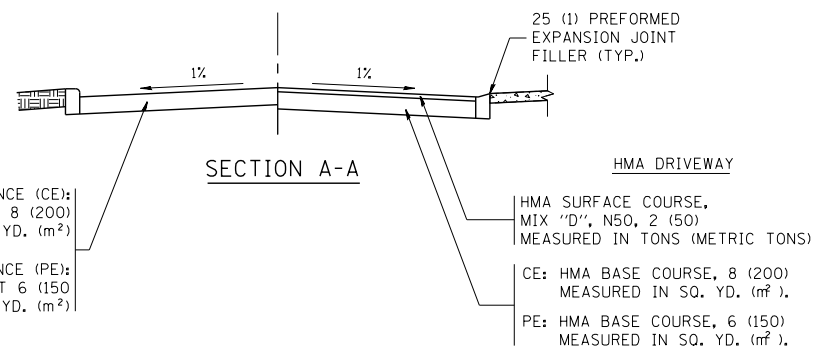
P:\2011\ME11007_Ver_Ver_Plan\CADD\W003_IL173.et.Tiff_Rd\Shots\DI60L28-sh1-ITC2-Schematics.dgn



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

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

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

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

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

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

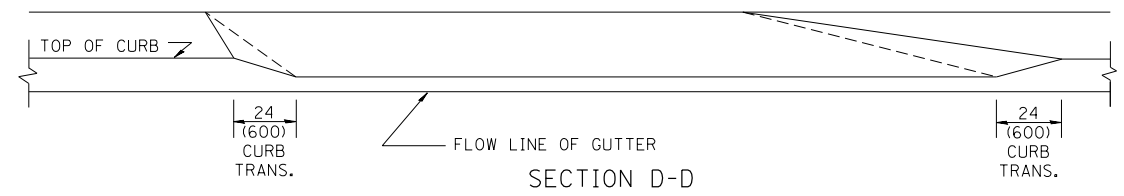
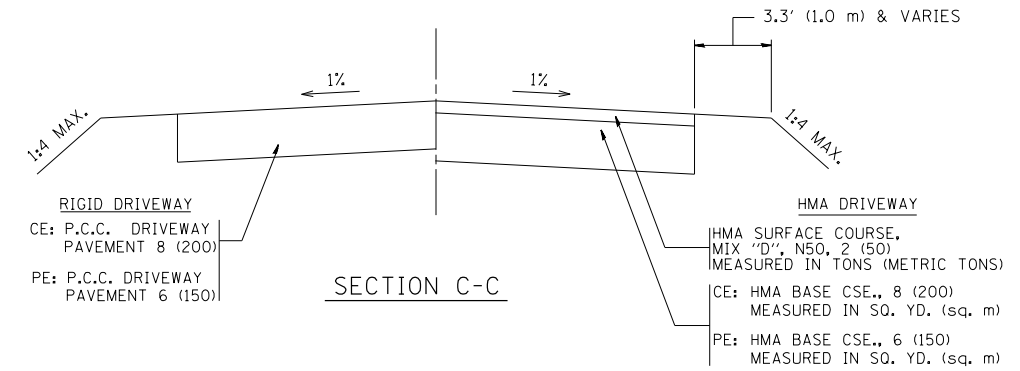
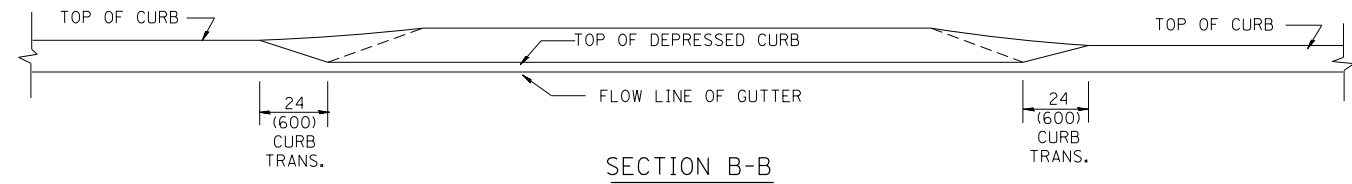
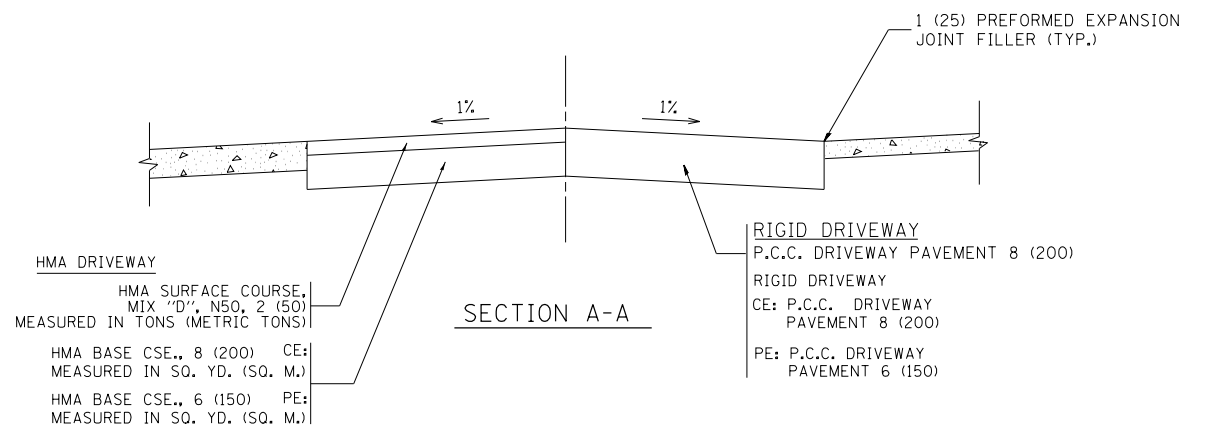
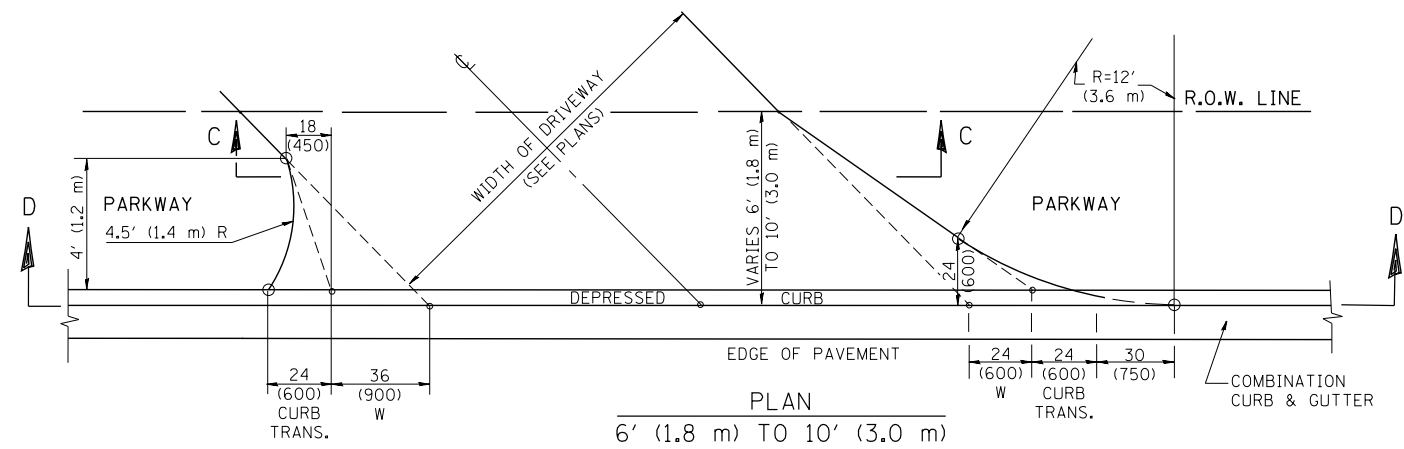
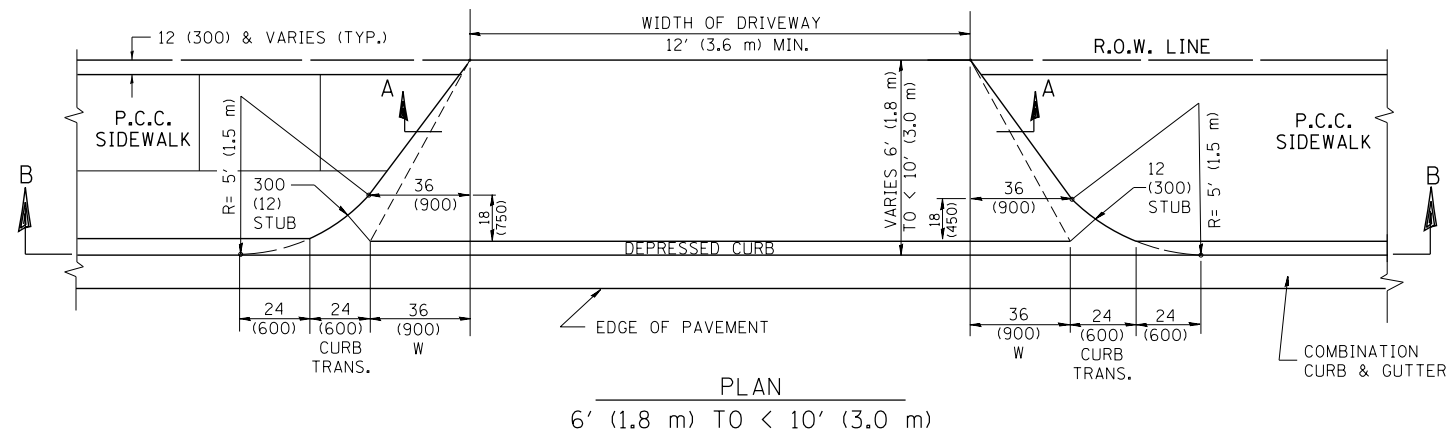
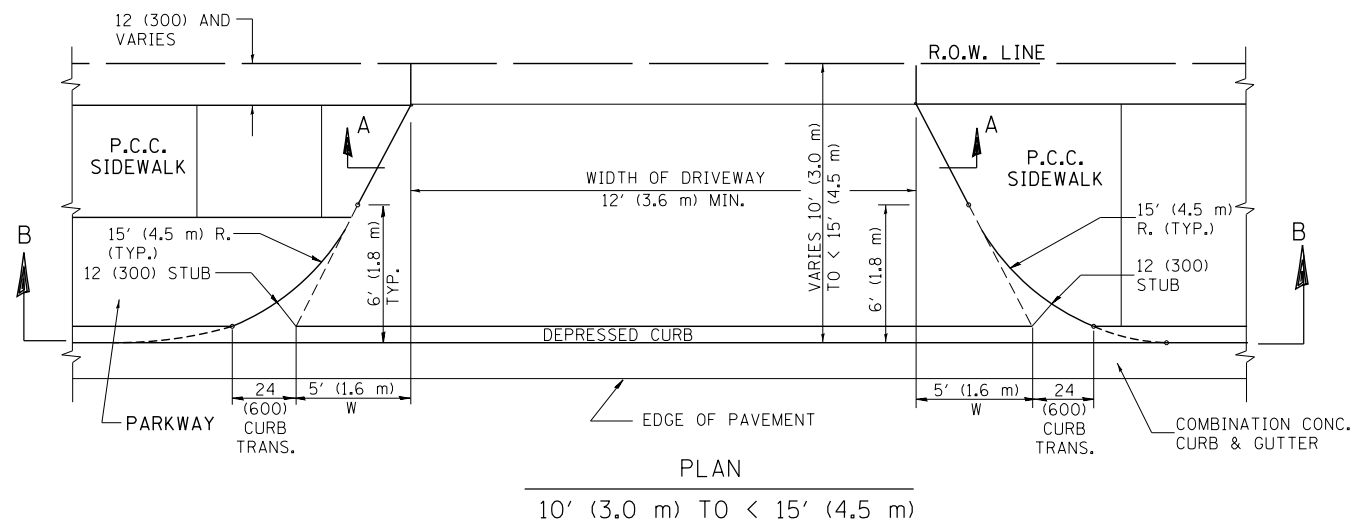
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = lryso	DESIGNED - R. SHAH	REVISED - P. LgFLUER 04-15-03
ct:\pw\work\p\dot\lryso\d0108315\bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	42
BD0156-07 (BD-01)			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

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

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

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

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

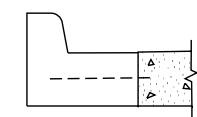
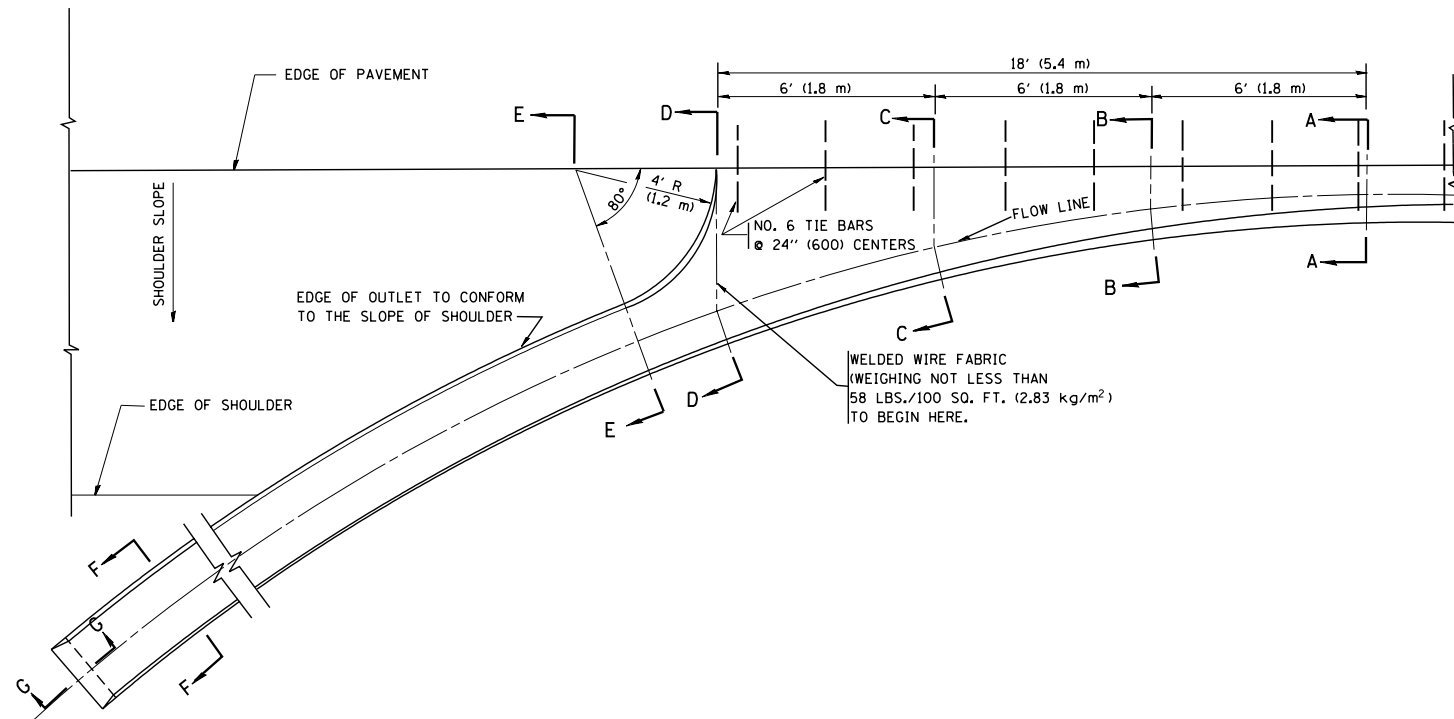
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = l1eyso	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
ct:\pw\work\p1dot\1eyso\d0108315\bd02.dgn		DRAWN -	REVISED - P. LOFLEUR 04-15-03
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 10/28/2011	DATE - 11-06-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

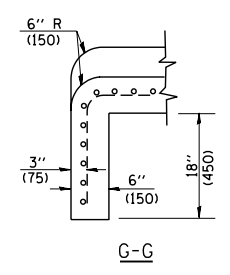
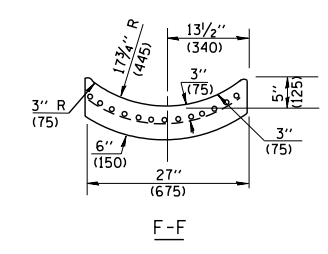
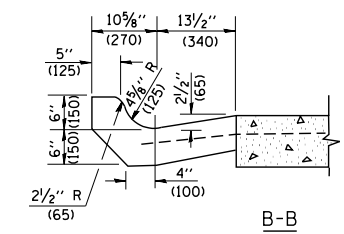
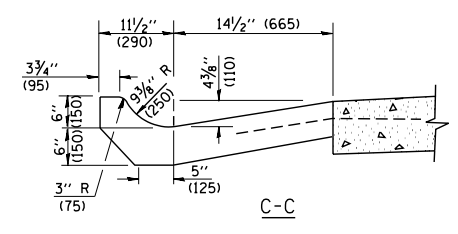
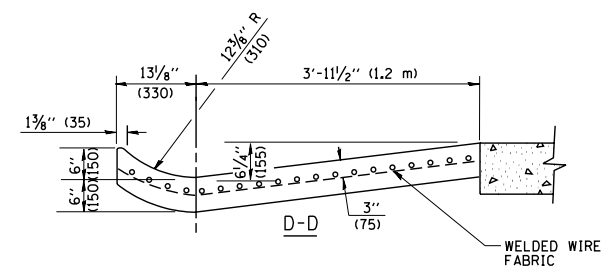
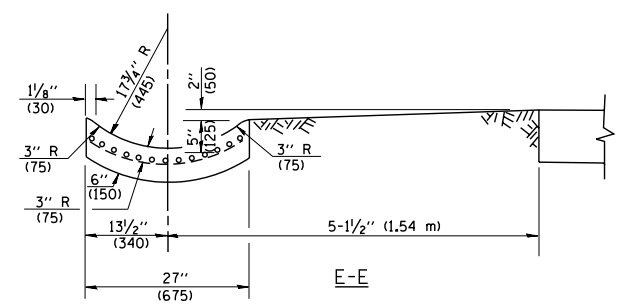
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-A1-1	LAKE	62	43
BD400-02 (BD-02)			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24\"/>

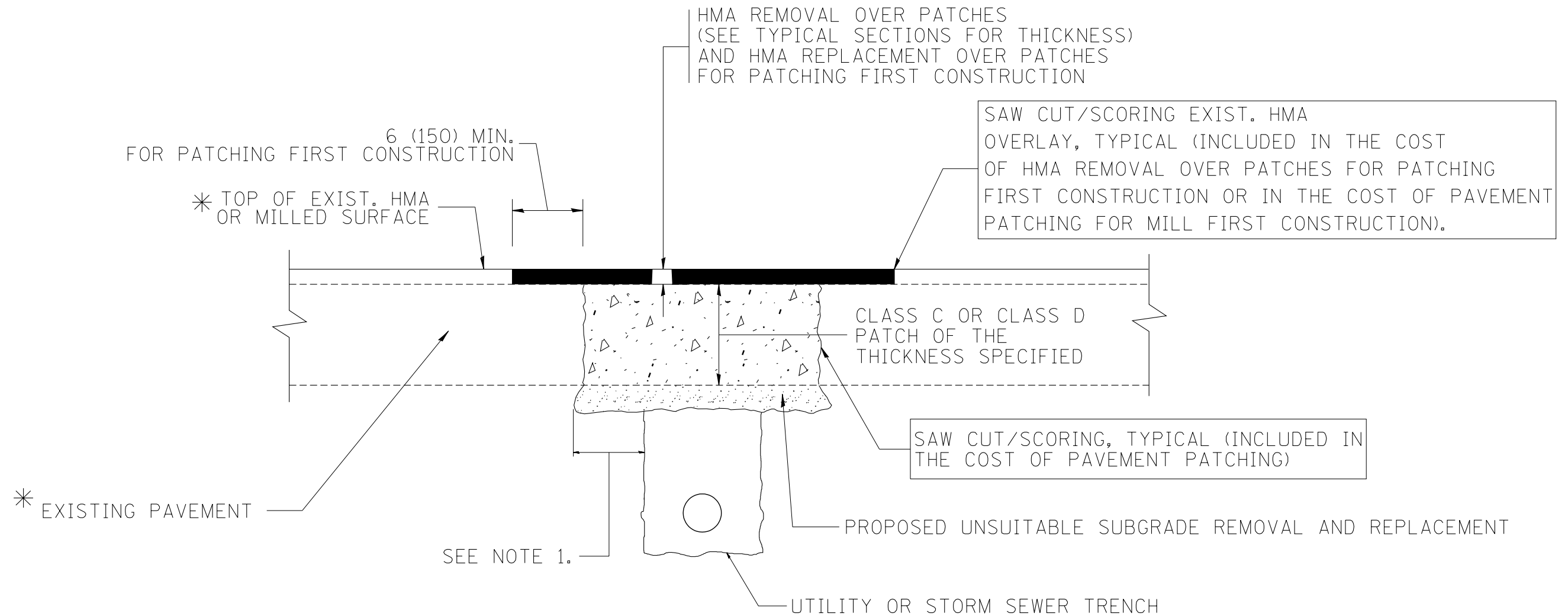
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL =
 1.25 CU. YDS. (0.96 m³) CLASS S1 CONCRETE (OUTLET) FOR 9\"/>

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

FILE NAME = W:\diststd\22x34\bd03.dgn	USER NAME = gaglionobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OUTLET FOR CONCRETE CURB AND GUTTER			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94					303	134-N-1	LAKE	62	44
	PLOT DATE = 1/4/2008	DATE - 08-04-86	REVISED - E. GOMEZ 12-21-00					BD600-01 (BD-03)		CONTRACT NO. 60L28		
				SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	45
BD400-04 (BD-22)			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

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

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

18" (450) MAX.

1/4" (5) **

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

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

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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

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

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

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

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

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

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

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

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

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

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

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

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

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

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

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

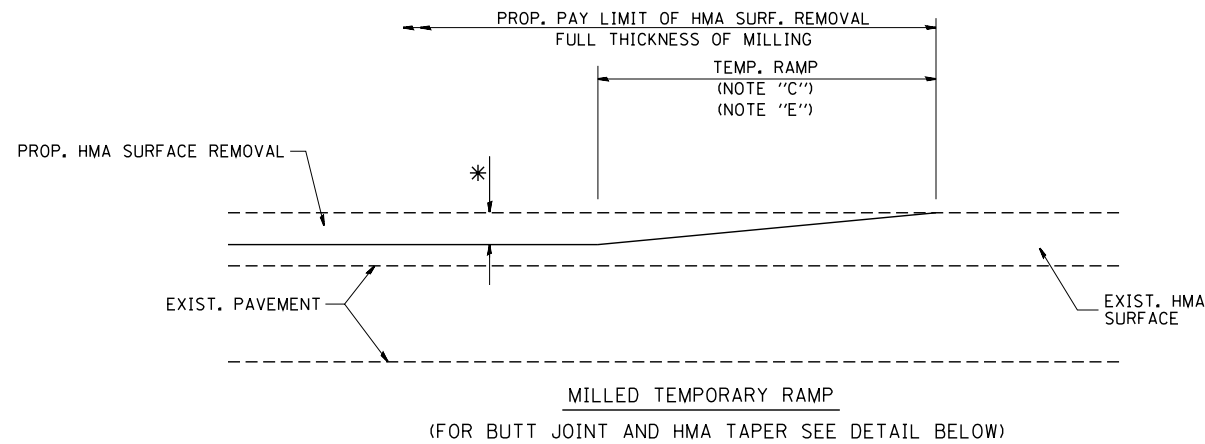
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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

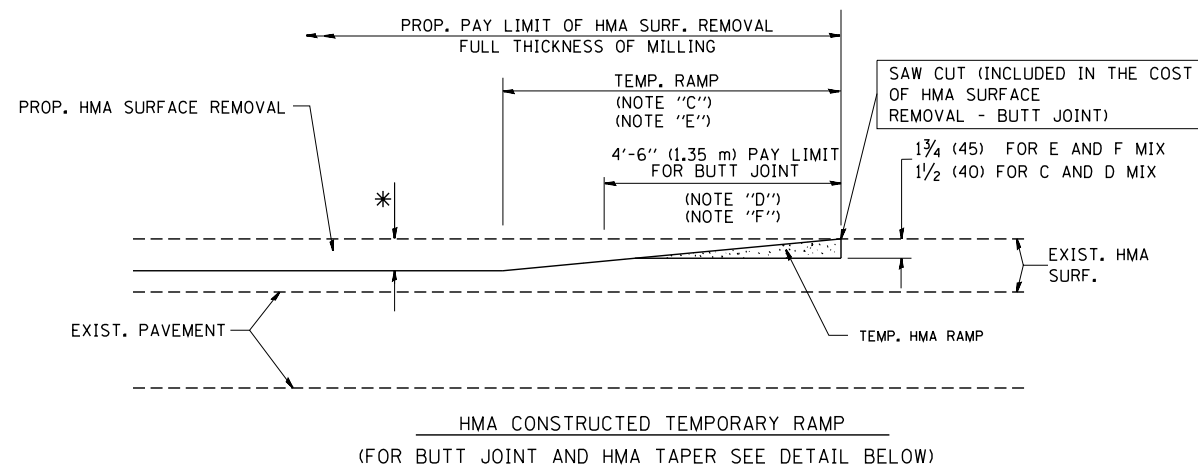
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\drivakosgn\0108315\bd24.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			303	134-AI-1	LAKE	62	46
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 12-15-09				BD600-06 (BD-24)		CONTRACT NO. 60L28		
PLOT DATE = 12/15/2009	DATE - 03-11-94					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

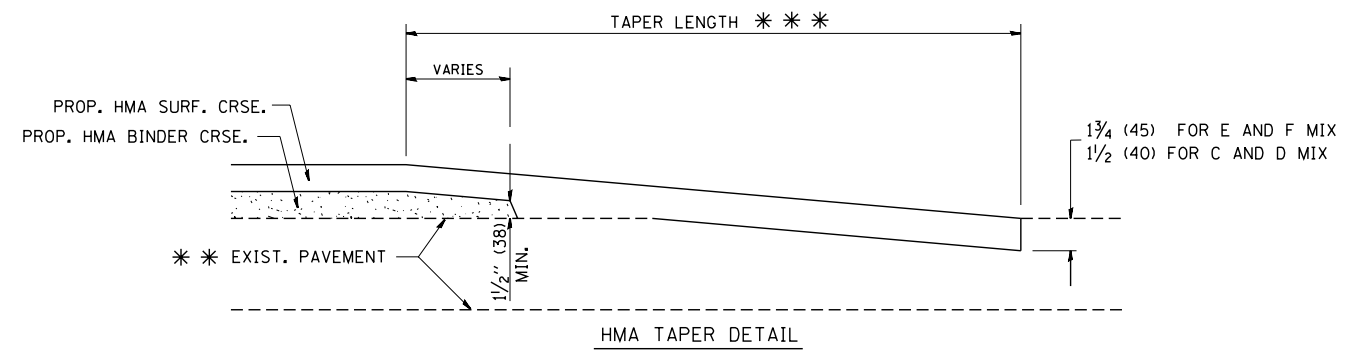
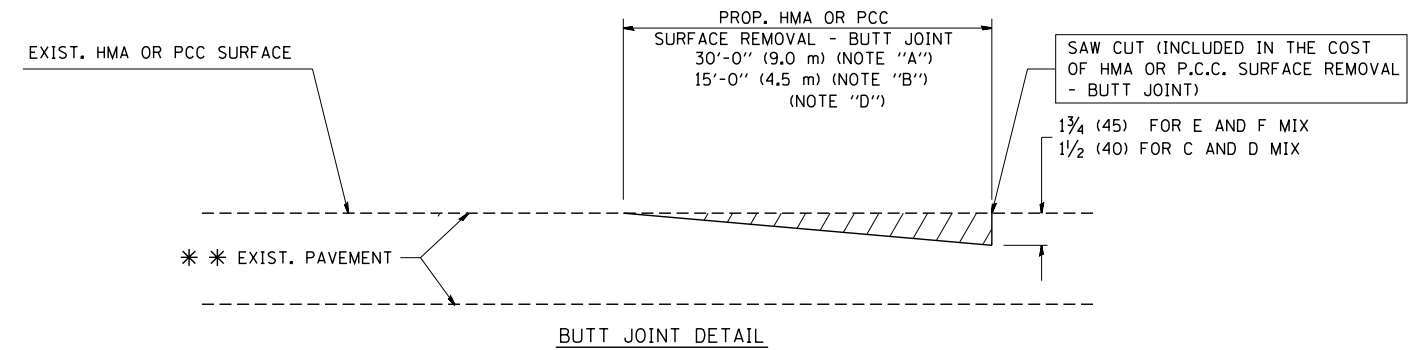


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

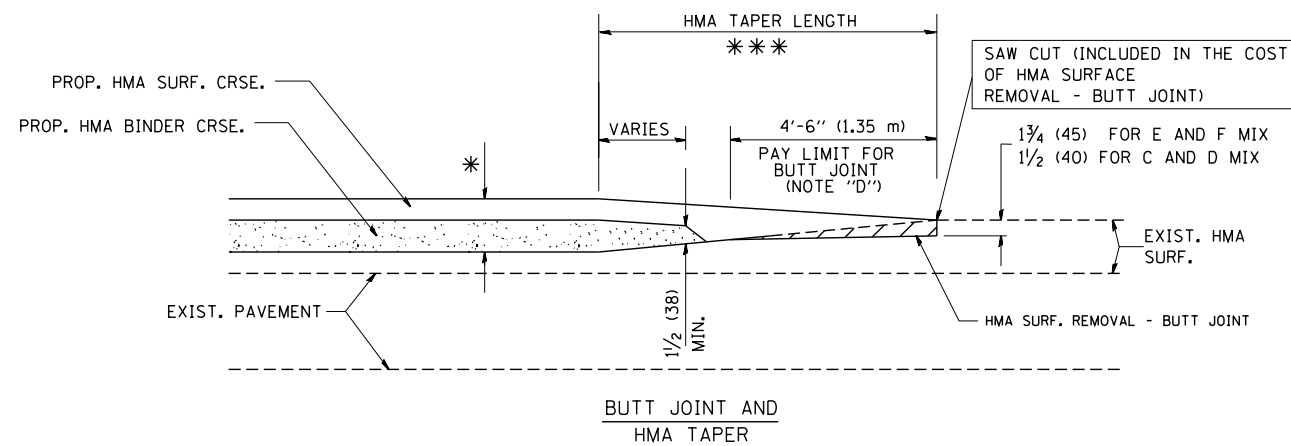
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



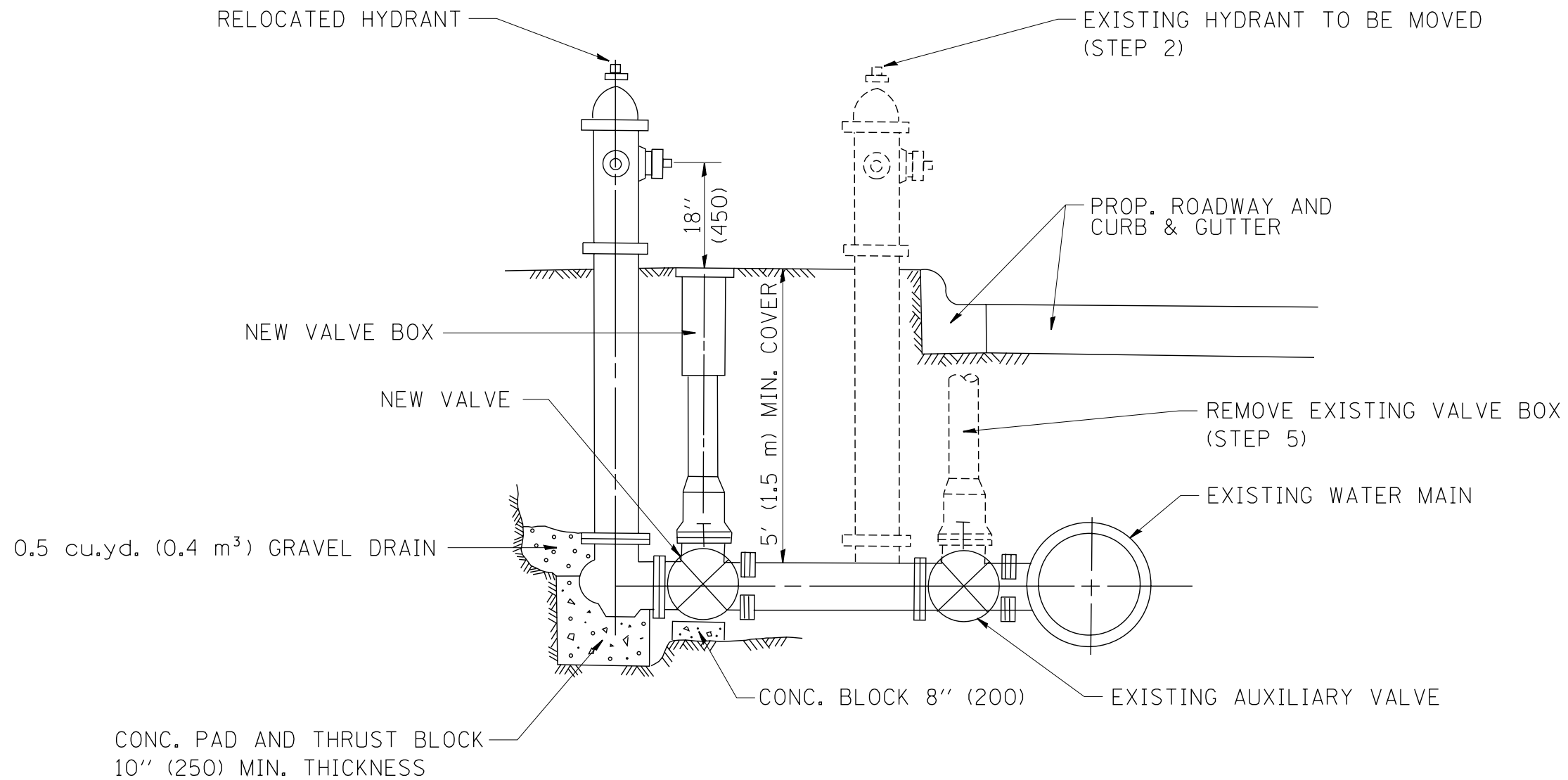
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglionobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	47
BD400-05 BD32		CONTRACT NO. 60L28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SEQUENCE OF CONSTRUCTION:

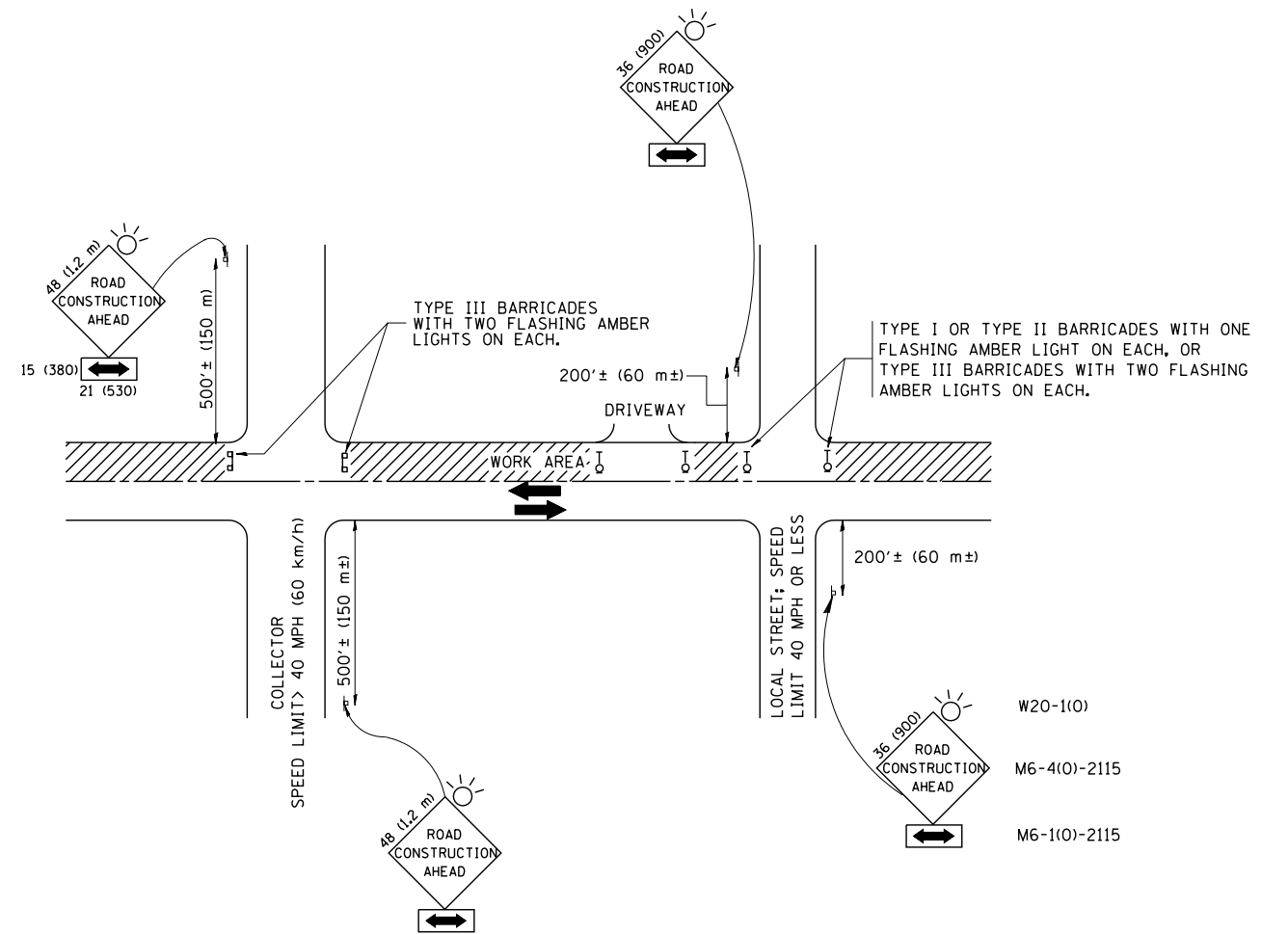
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

FILE NAME = W:\diststd\22x34\bd36.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - R. SHAH 10-25-94					303	134-N-1	LAKE	62	47A
PLOT DATE = 1/4/2008	CHECKED -	DATE -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD-36		CONTRACT NO. 60L28		
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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

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

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

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

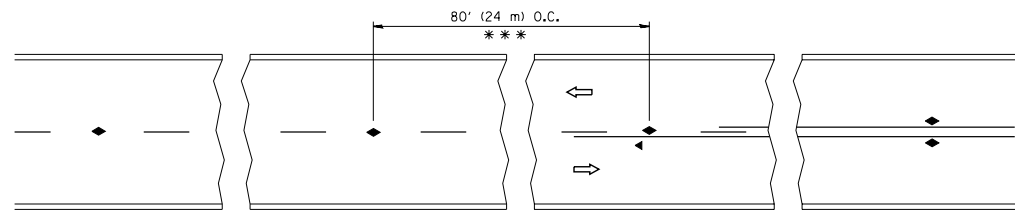
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

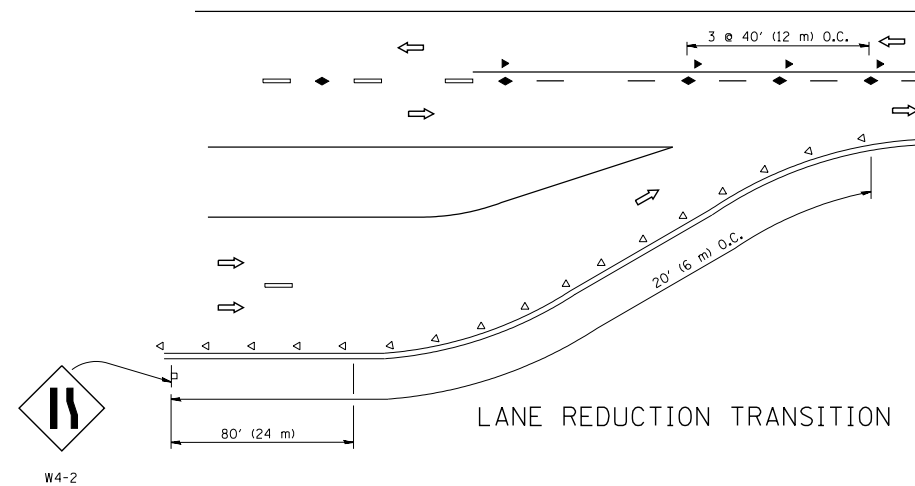
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	48
TC-10			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

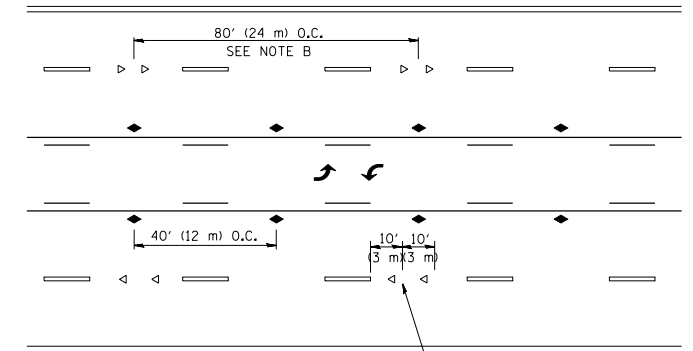


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

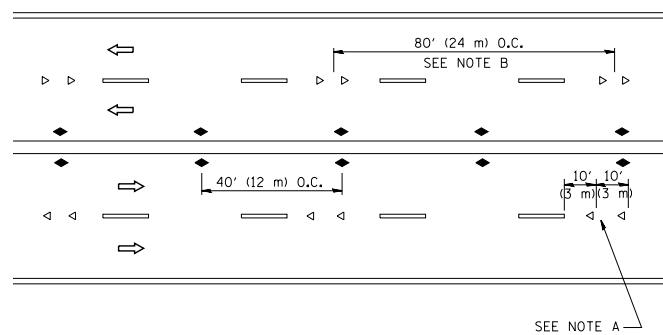
TWO-LANE/TWO-WAY



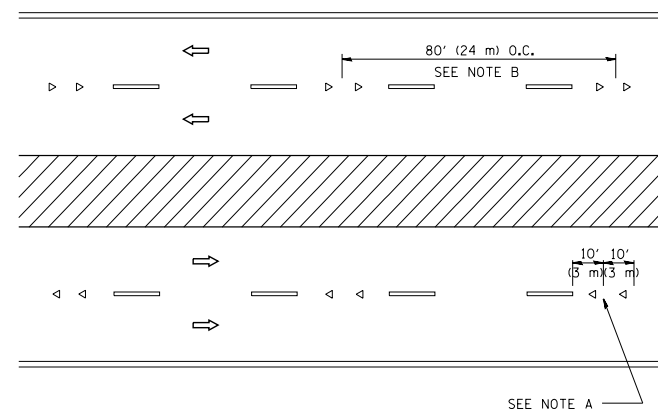
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

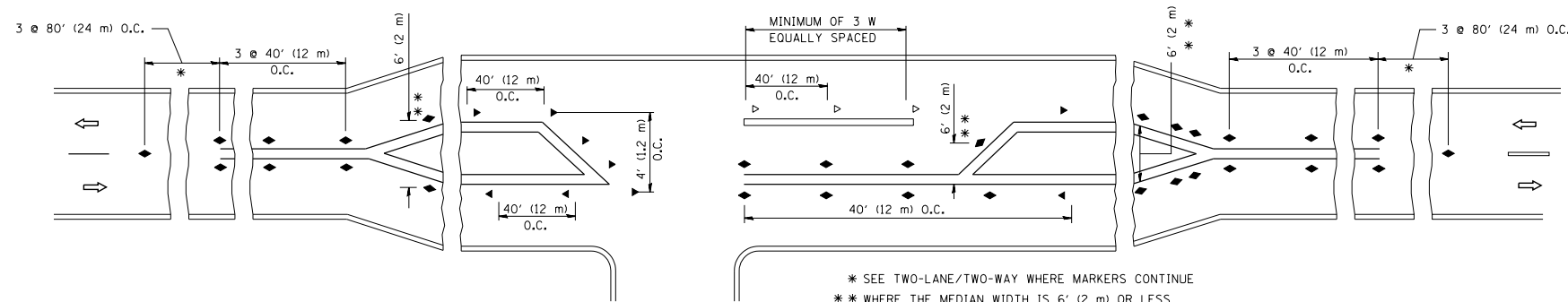
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

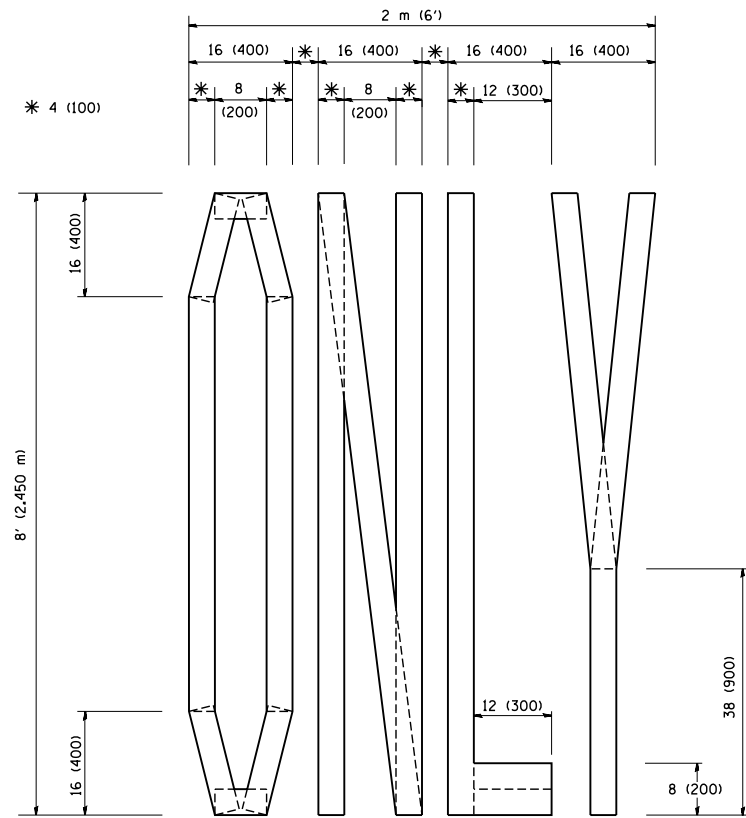
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = lryso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
cr:\pw\work\p\idot\lryso\d0108315\l1.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

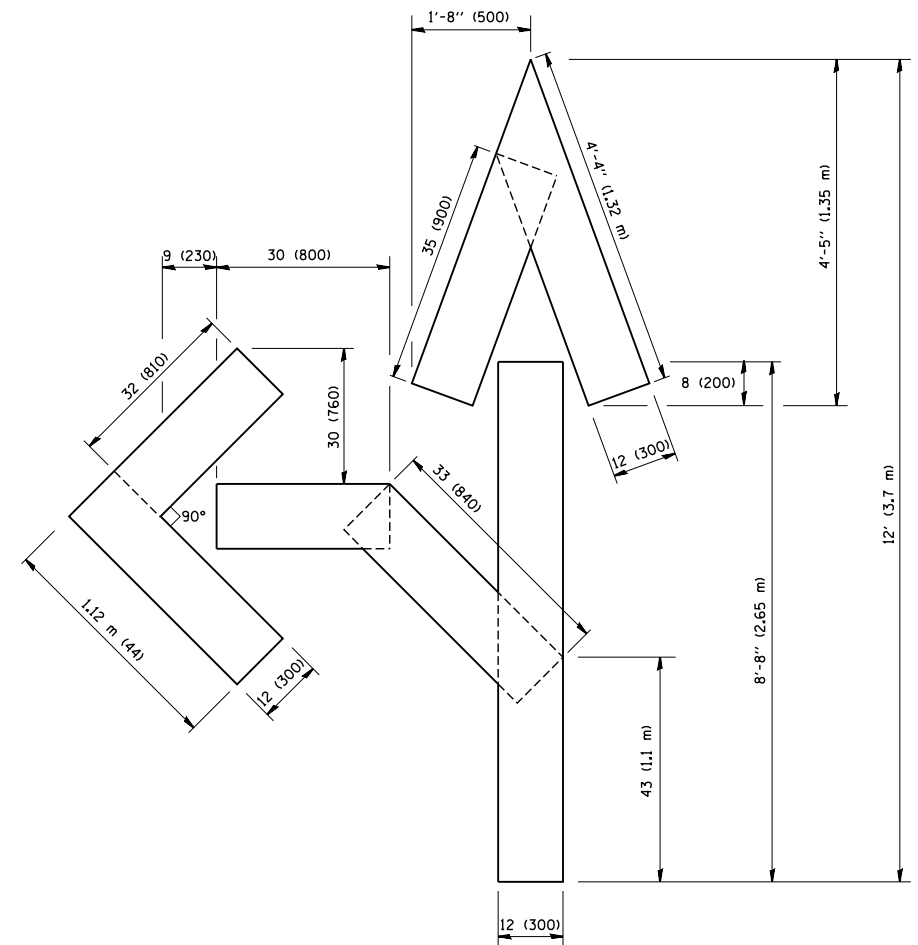
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

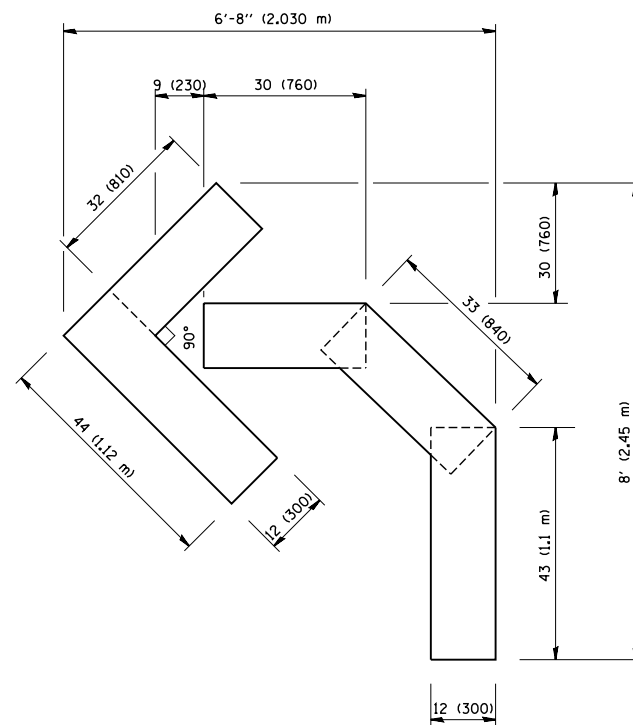
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-A-1	LAKE	62	49
TC-11			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



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



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

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

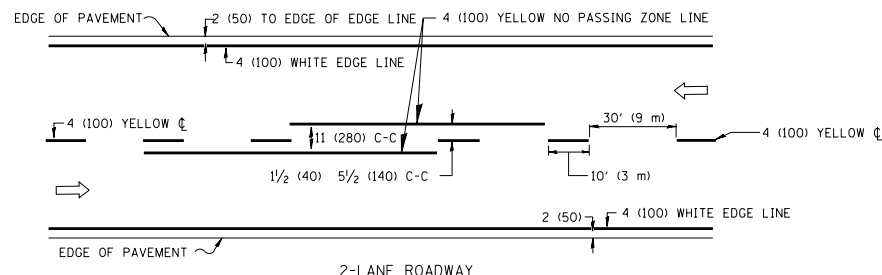
FILE NAME = W:\diststd\22x34\tc16.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 06-05-96 REVISED -T. RAMMACHER 11-04-97
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	
PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

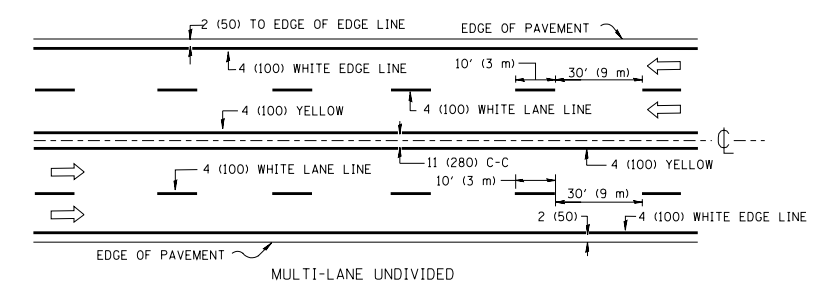
**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

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

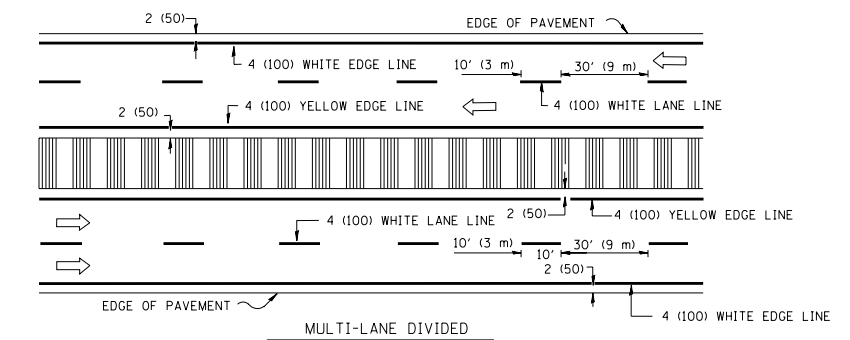
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	49A
TC-16			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



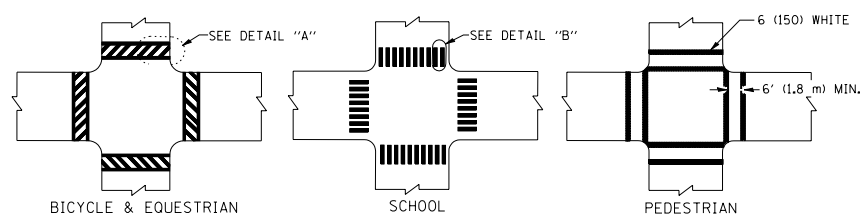
MULTI-LANE UNDIVIDED



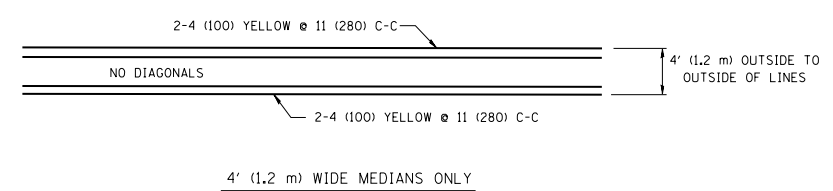
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIUM

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

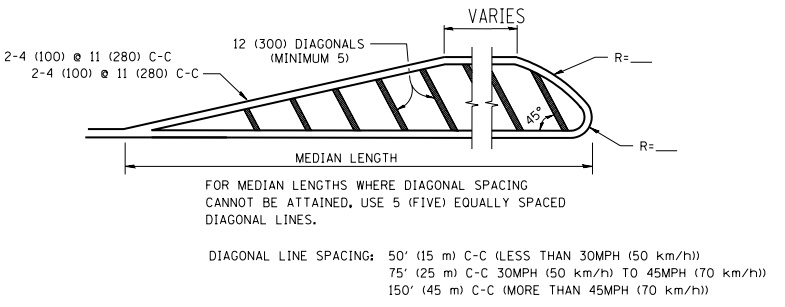
TYPICAL LANE AND EDGE LINE MARKING



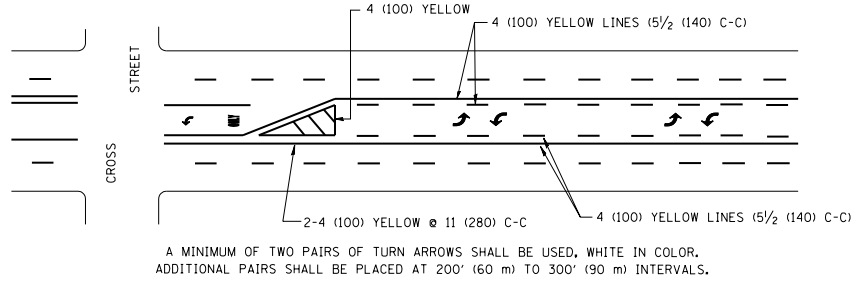
TYPICAL CROSSWALK MARKING



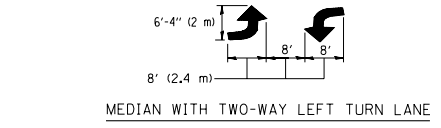
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



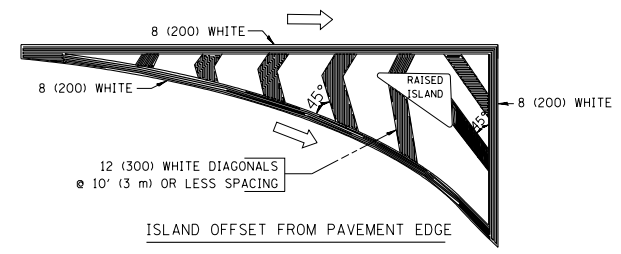
TYPICAL PAINTED MEDIAN MARKING



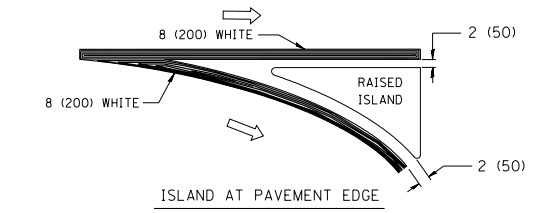
TYPICAL LEFT (OR RIGHT) TURN LANE

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

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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

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

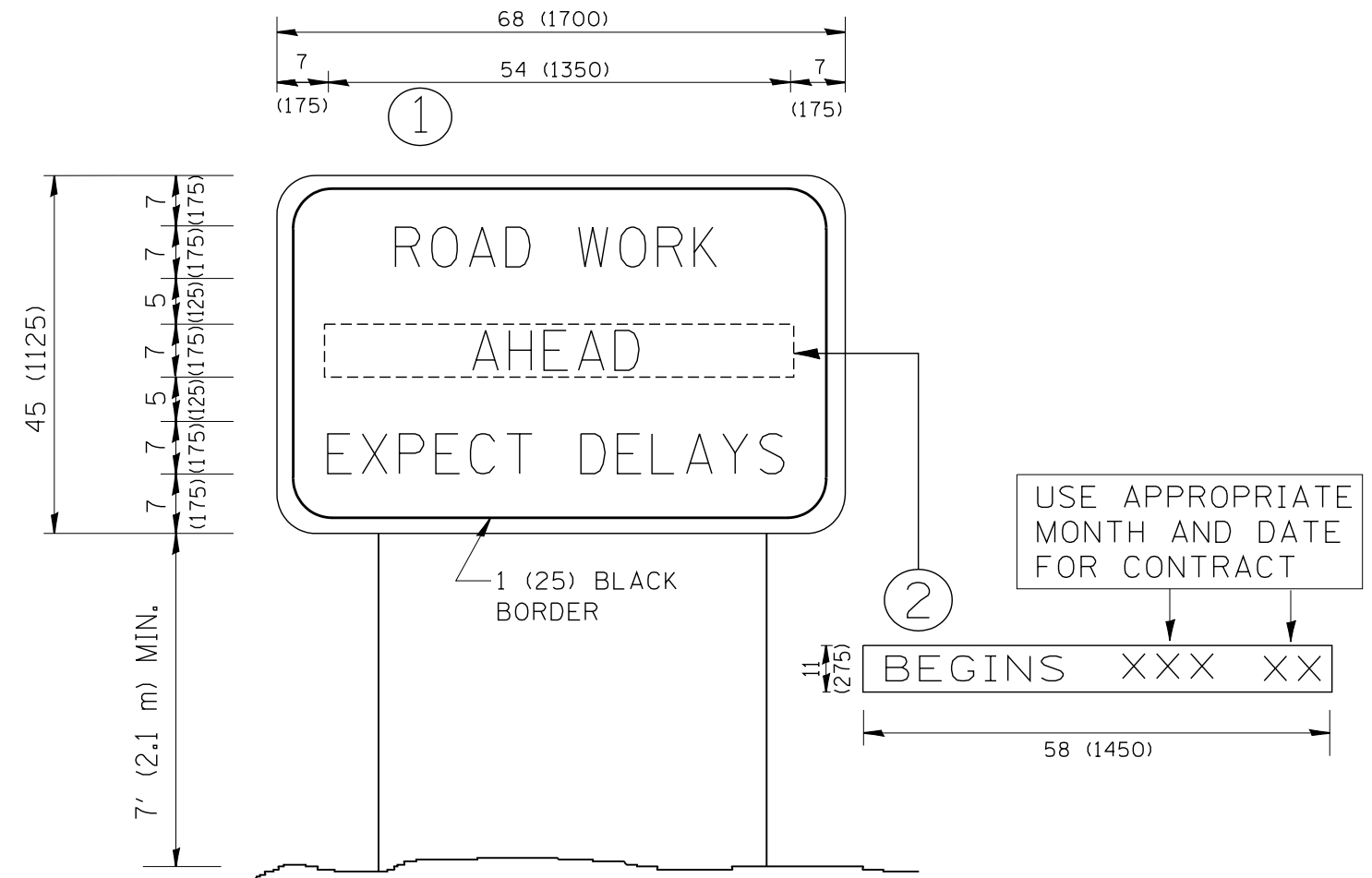
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drvakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
ca:\pw\work\p1dot\drvakosgn\d0108315\to3.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-A-1	LAKE	62	50
TC-13		CONTRACT NO. 60L28		
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.

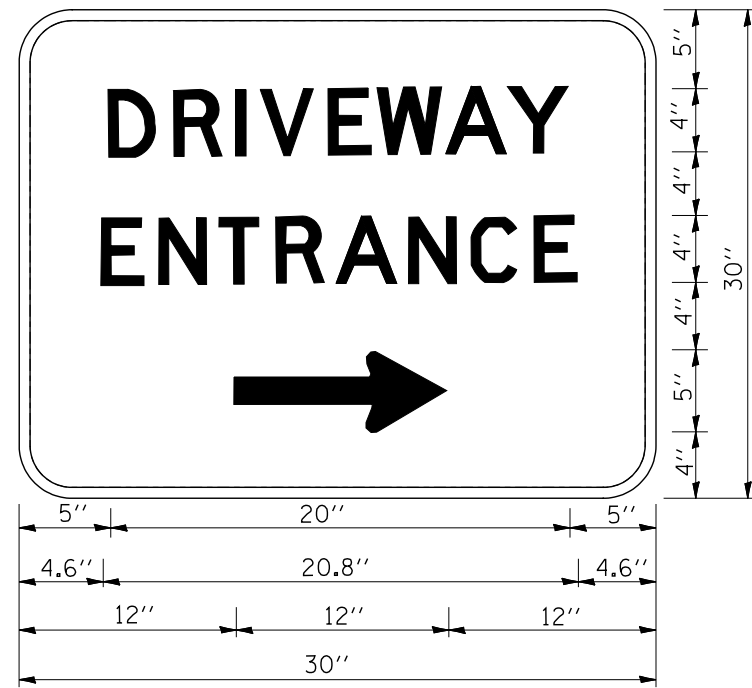
FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-AI-1	LAKE	62	51
TC-22			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

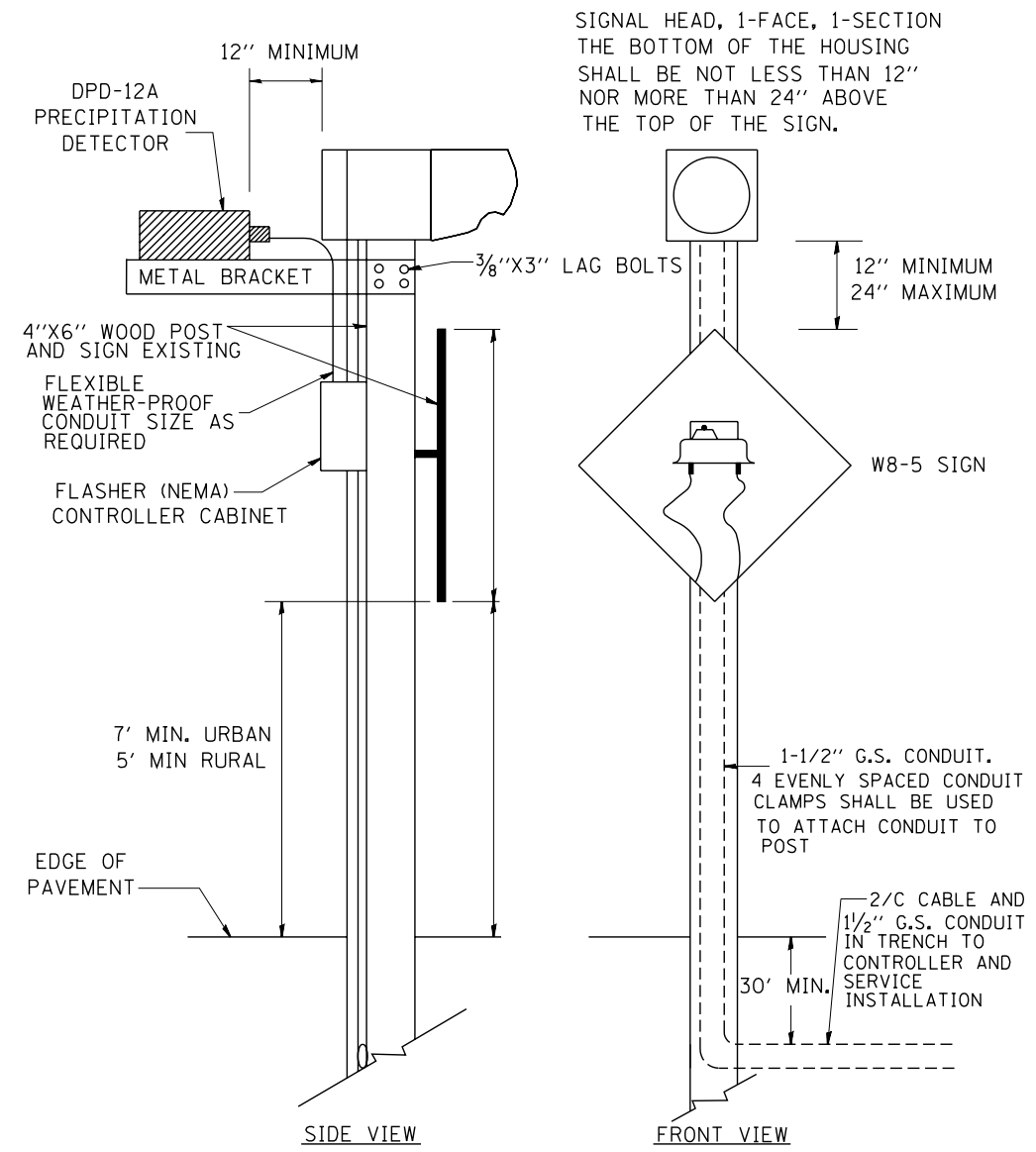
FILE NAME = W:\diststd\22x34\tc26.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	51A
TC-26			CONTRACT NO. 60L28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGNAL HEAD, 1-FACE, 1-SECTION
 THE BOTTOM OF THE HOUSING
 SHALL BE NOT LESS THAN 12"
 NOR MORE THAN 24" ABOVE
 THE TOP OF THE SIGN.

SIDE VIEW FRONT VIEW
**POST MOUNTED FLASHING BEACON
 WITH PRECIPITATION DETECTOR**

(NOT TO SCALE)

FILE NAME = W:\diststd\22x34\ts04.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 01-01-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

POST MOUNTED FLASHING BEACON WITH PRECIPITATION DETECTOR			
SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	52
TS-04		CONTRACT NO. 60L28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNAL HEAD, 1-FACE, 1-SECTION
 THE BOTTOM OF THE HOUSING SHALL
 BE NOT LESS THAN 12" (305mm) NOR
 MORE THAN 24" (610mm) ABOVE THE
 TOP OF THE SIGN.

4" (102 mm) X 6" (152 mm)
 WOOD POST AND SIGN

FLASHER
 CONTROLLER
 AND CABINET

FLASHER
 CONTROLLER
 AND CABINET

CONDUIT CLAMP

7' (2,134m) MIN. URBAN
 5' (1,524m) MIN. RURAL

1/2" (38mm) G.S. CONDUIT. FIVE
 EVENLY SPACED CONDUIT
 CLAMPS SHALL BE USED TO
 ATTACH CONDUIT TO POST

1/2" (38mm) DRILLED HOLE CENTERED
 AT 18" (457mm) FROM GROUND LEVEL

1/2" (38mm) DRILLED HOLE CENTERED
 AT 4" (102mm) FROM GROUND LEVEL

EDGE OF PAVEMENT

30" (76mm) MIN.

POST MOUNTED FLASHING BEACON
 WITH CONTROLLER AND CABINET

FILE NAME = W:\diststd\22x34\ts04.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 01-01-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

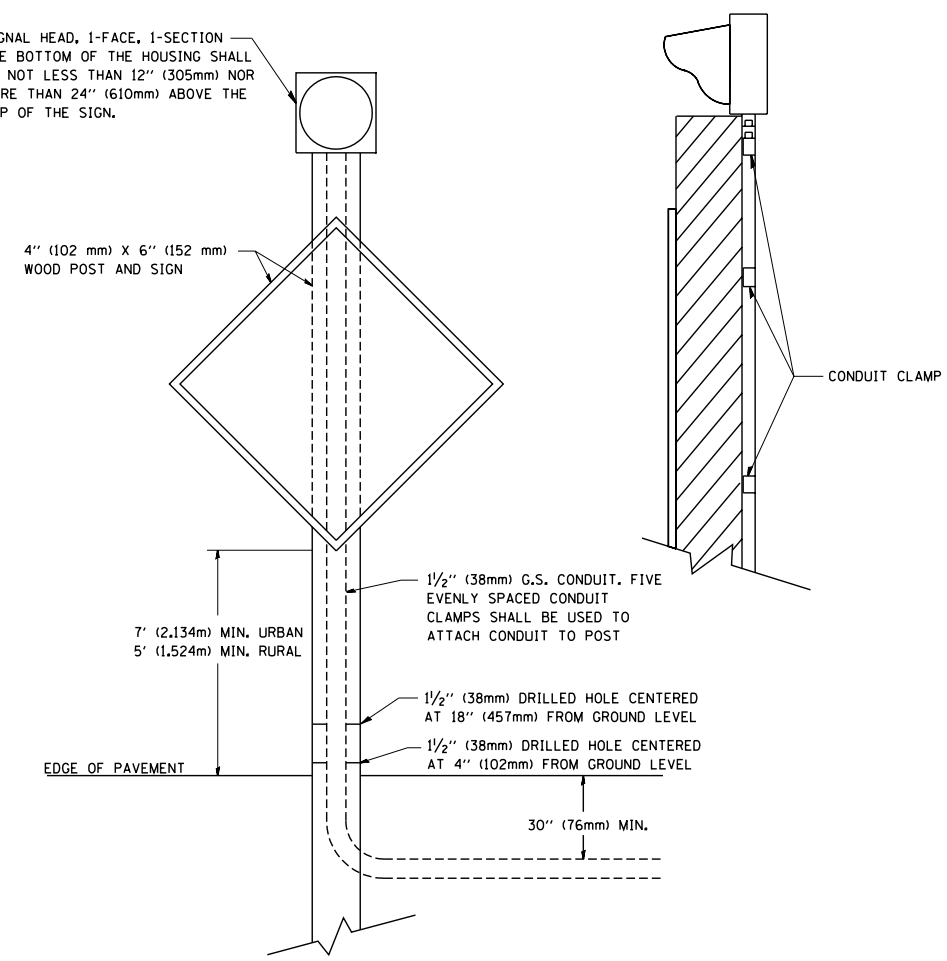
POST MOUNTED FLASHING BEACON
 WITH CONTROLLER AND CABINET

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	53
TS-04		CONTRACT NO. 60L28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNAL HEAD, 1-FACE, 1-SECTION
 THE BOTTOM OF THE HOUSING SHALL
 BE NOT LESS THAN 12" (305mm) NOR
 MORE THAN 24" (610mm) ABOVE THE
 TOP OF THE SIGN.

4" (102 mm) X 6" (152 mm)
 WOOD POST AND SIGN



POST MOUNTED FLASHING BEACON

FILE NAME = W:\diststd\22x34\ts04.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 01-01-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

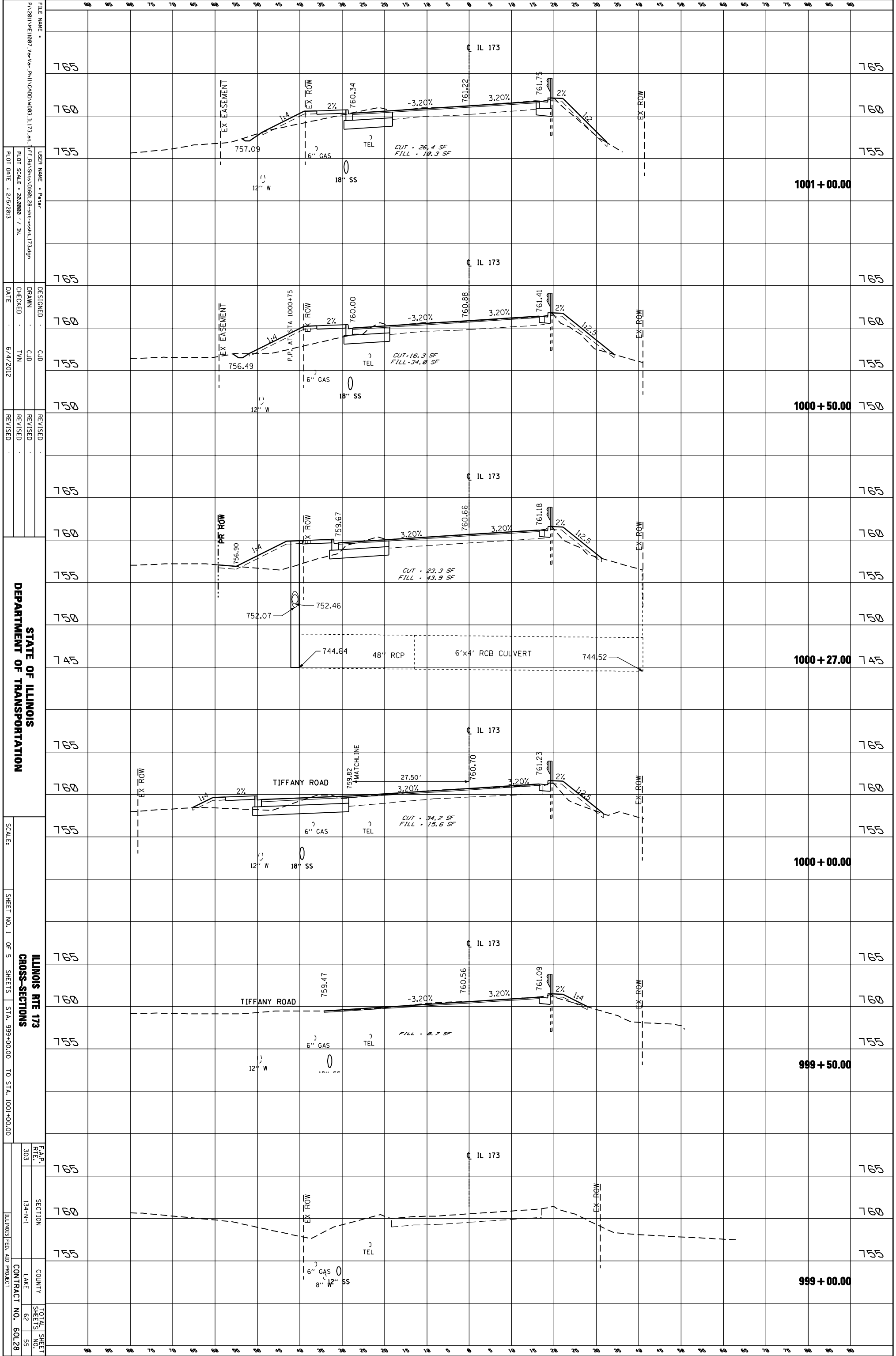
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

POST MOUNTED FLASHING BEACON			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	134-N-1	LAKE	62	54
TS-04		CONTRACT NO. 60L28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME: P:\2011\110807_Via_Ver_Plan\CADD\003_IL173.dwg
 USER NAME: Peter
 PLOT SCALE: 20,000 / IN.
 PLOT DATE: 2/5/2013

DESIGNED: CJD
 DRAWN: CJD
 CHECKED: TVN
 DATE: 6/4/2012

REVISIONS:

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. 1 OF 5 SHEETS STA. 999+00.00 TO STA. 1001+00.00

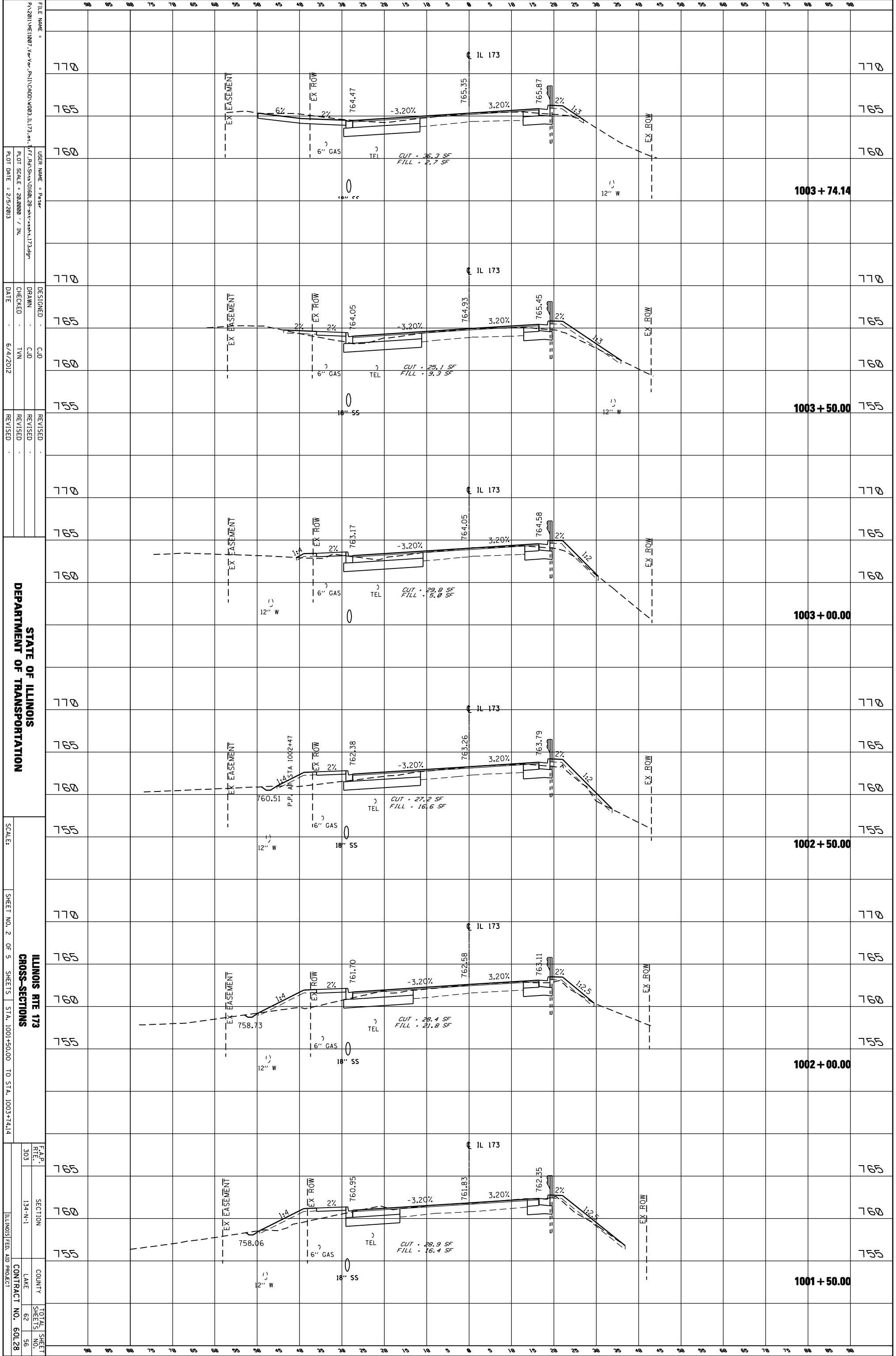
ILLINOIS RTE 173
 CROSS-SECTIONS

F.A.P. 303 SECTION 134-N-1 COUNTY LAKE CONTRACT NO. 60L28

TOTAL SHEET NO. 55

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME: P:\2011\ME1007\1007-Plan\CD00\1003_IL173.dwg
 USER NAME: Peter
 PLOT SCALE: 20,000 / IN.
 PLOT DATE: 2/5/2013

DESIGNED: CJD
 DRAWN: CJD
 CHECKED: TYN
 DATE: 6/4/2012

REVISIONS:
 REVISION NO. 1: [Blank]
 REVISION NO. 2: [Blank]
 REVISION NO. 3: [Blank]

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

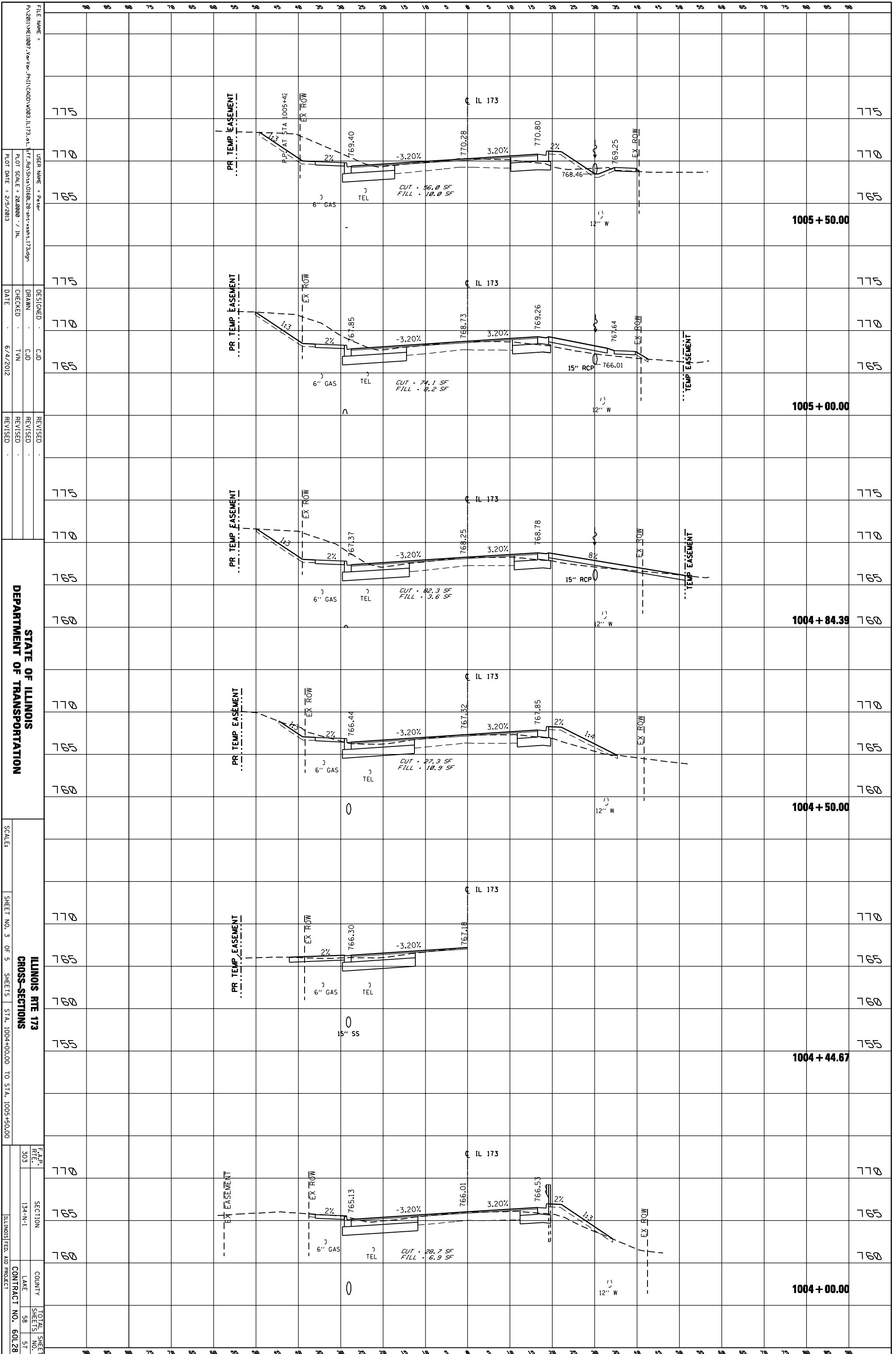
SCALE: SHEET NO. 2 OF 5 SHEETS STA. 1001+50.00 TO STA. 1003+74.14

ILLINOIS RTE 173
 CROSS-SECTIONS

F.A.P. RTE. 303 SECTION 134-N-1 COUNTY LAKE CONTRACT NO. 60L28 TOTAL SHEET NO. 56

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS RTE 173
CROSS-SECTIONS
SHEET NO. 3 OF 5 SHEETS STA. 1004+00.00 TO STA. 1005+50.00

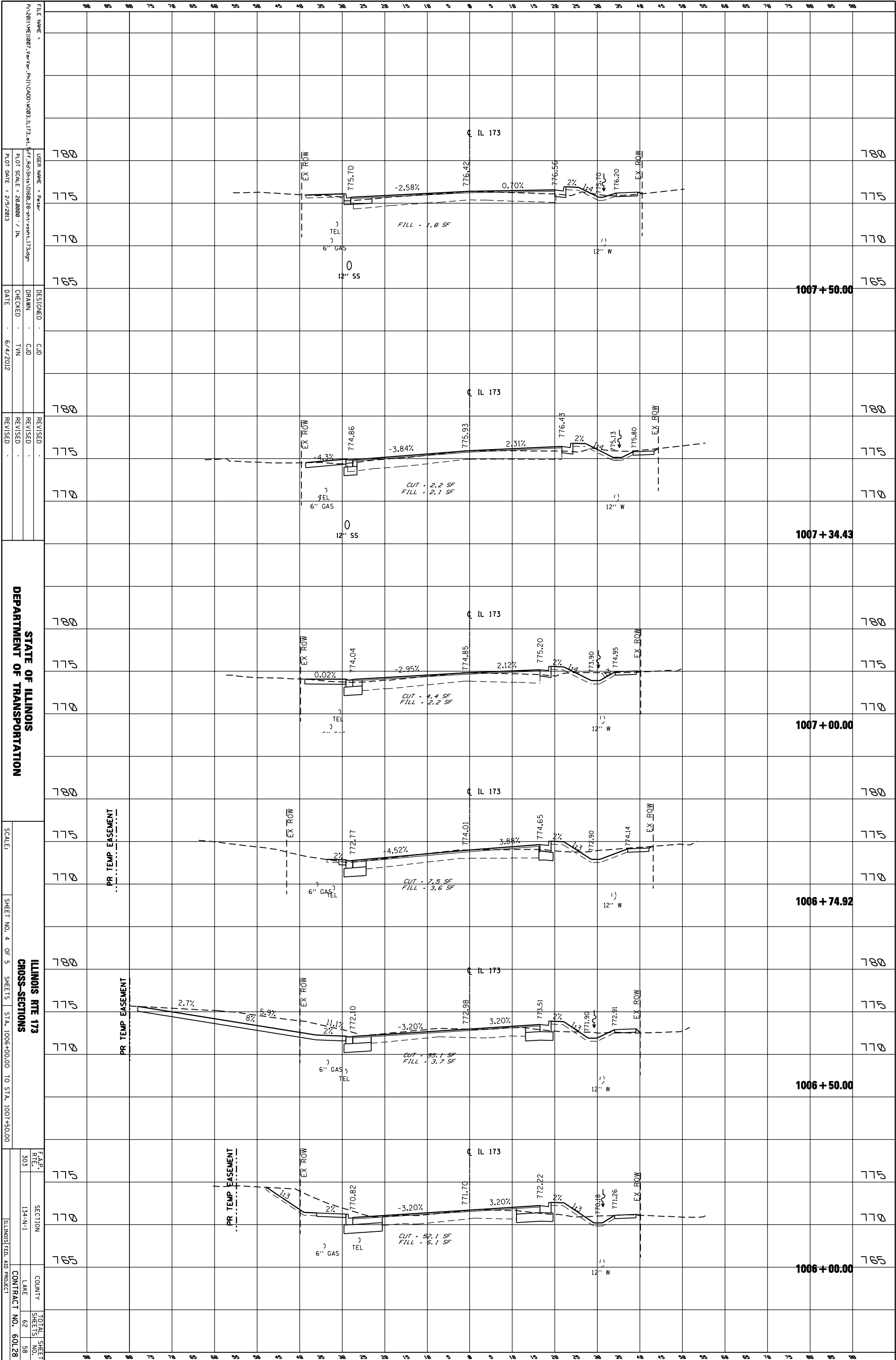
SCALE: 1" = 10'-0"

F.A.P. RFL. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEET NO. 57
CONTRACT NO. 60L28		ILLINOIS FED. AID PROJECT	

FILE NAME: P:\2011\ME1007_Ver-Vor-Plan\CADD\003_IL173.dwg
 USER NAME: Peter
 PLOT SCALE: 20/8000 / IN.
 PLOT DATE: 2/5/2013
 DESIGNED: CJD
 DRAWN: CJD
 CHECKED: TNV
 DATE: 6/4/2012
 REVISIONS:

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME = P:\2011\1007_Ver_Ver_Plan\CADD\1003_IL173.dwg
 USER NAME = Peter
 PLOT SCALE = 200000 / IN
 PLOT DATE = 2/5/2013

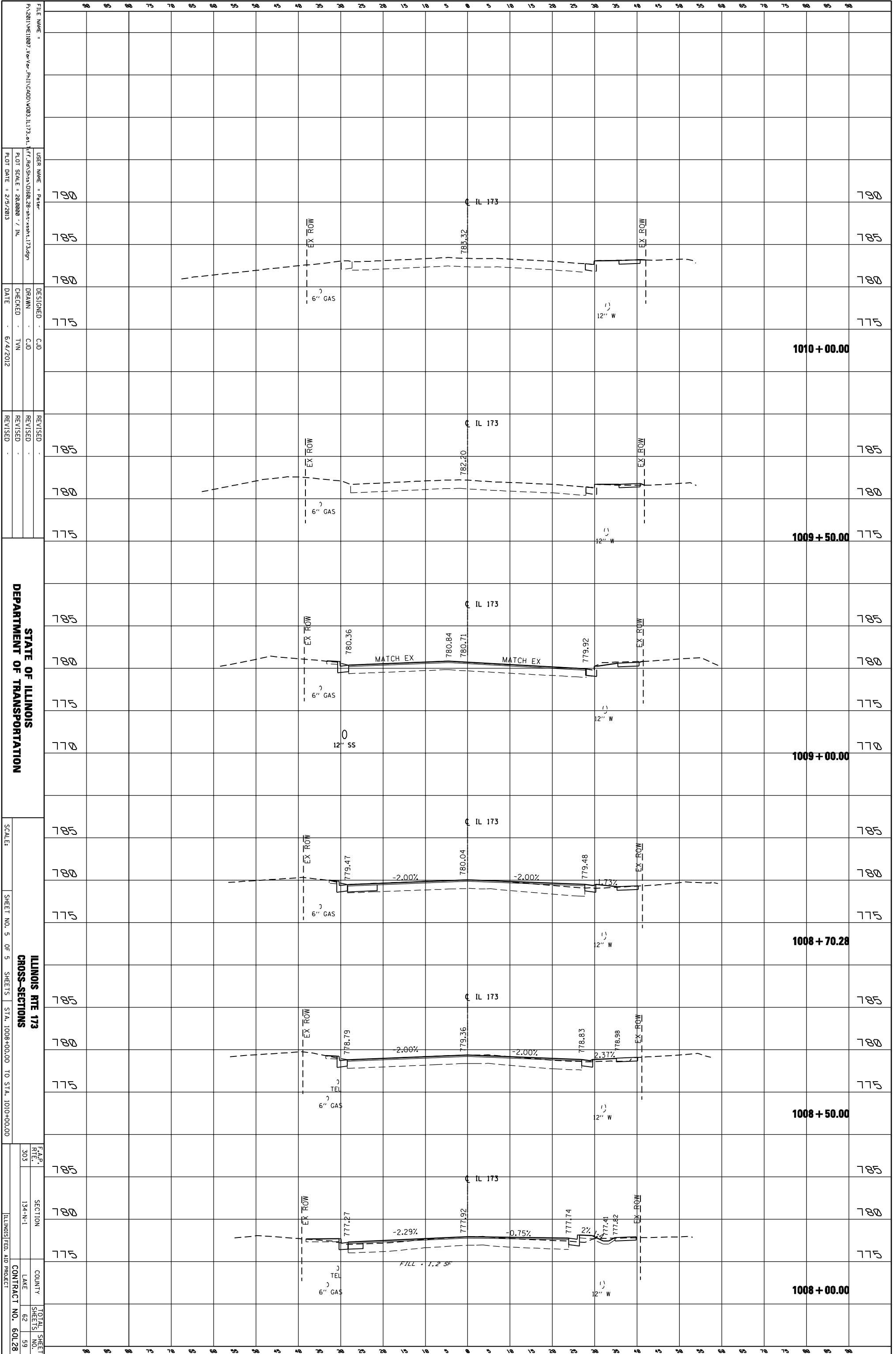
DESIGNED - CJD
 DRAWN - CJD
 CHECKED - TNV
 DATE - 6/4/2012

REVISIONS
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SCALE:
 SHEET NO. 4 OF 5 SHEETS
 ILLINOIS RTE 173
 CROSS-SECTIONS
 STA. 1006+00.00 TO STA. 1007+50.00
 F.A.P. 303
 SECTION 134-N-1
 COUNTY LAKE
 TOTAL SHEET NO. 62
 CONTRACT NO. 60L28
 ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME = P:\2011\VE10807_Ver_Ver_Plan\CADD\0003_IL173.dwg	USER NAME = Peter	DESIGNED = CJD	REVISION
PLT SCALE = 20,000 / 1" IN.	PLT DATE = 2/5/2013	CHECKED = TVN	DATE = 6/4/2012

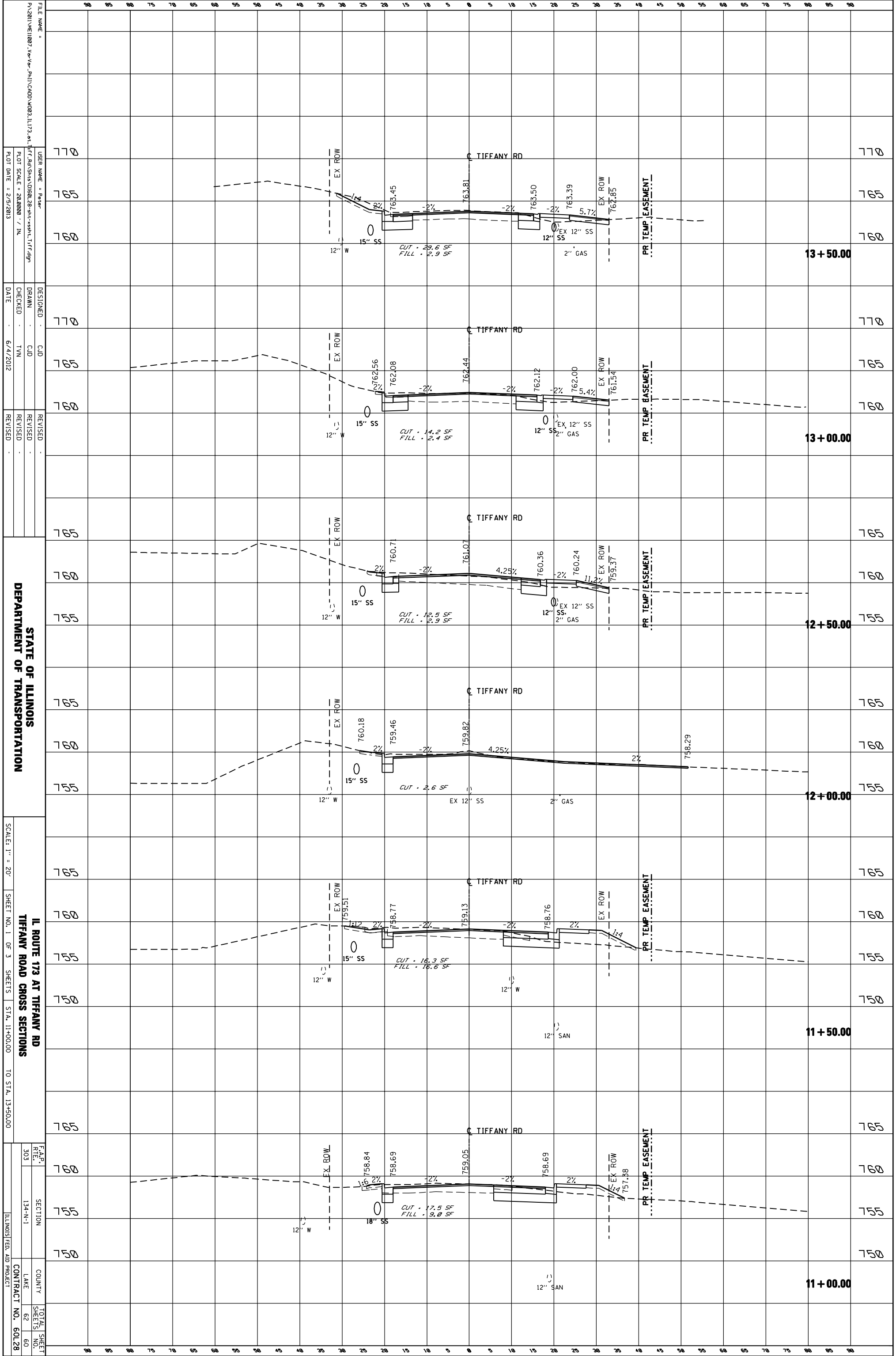
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO. 5 OF 5 SHEETS	STA. 1008+00.00 TO STA. 1010+00.00
--------	-------------------------	------------------------------------

F.A.P. RTE. NO. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEET NO. 62
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L28

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

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



FILE NAME = P:\2011\110807_Ver-Vor_Plan\CADD\110807_1173.dwg
 USER NAME = Peter
 PLOT SCALE = 20/8000 = 1/400
 PLOT DATE = 2/5/2013

DESIGNED BY: CJD
 DRAWN BY: TVN
 CHECKED BY: TVN
 DATE: 6/4/2012

REVISIONS:
 REVISION NO. 1: [Blank]
 REVISION NO. 2: [Blank]
 REVISION NO. 3: [Blank]

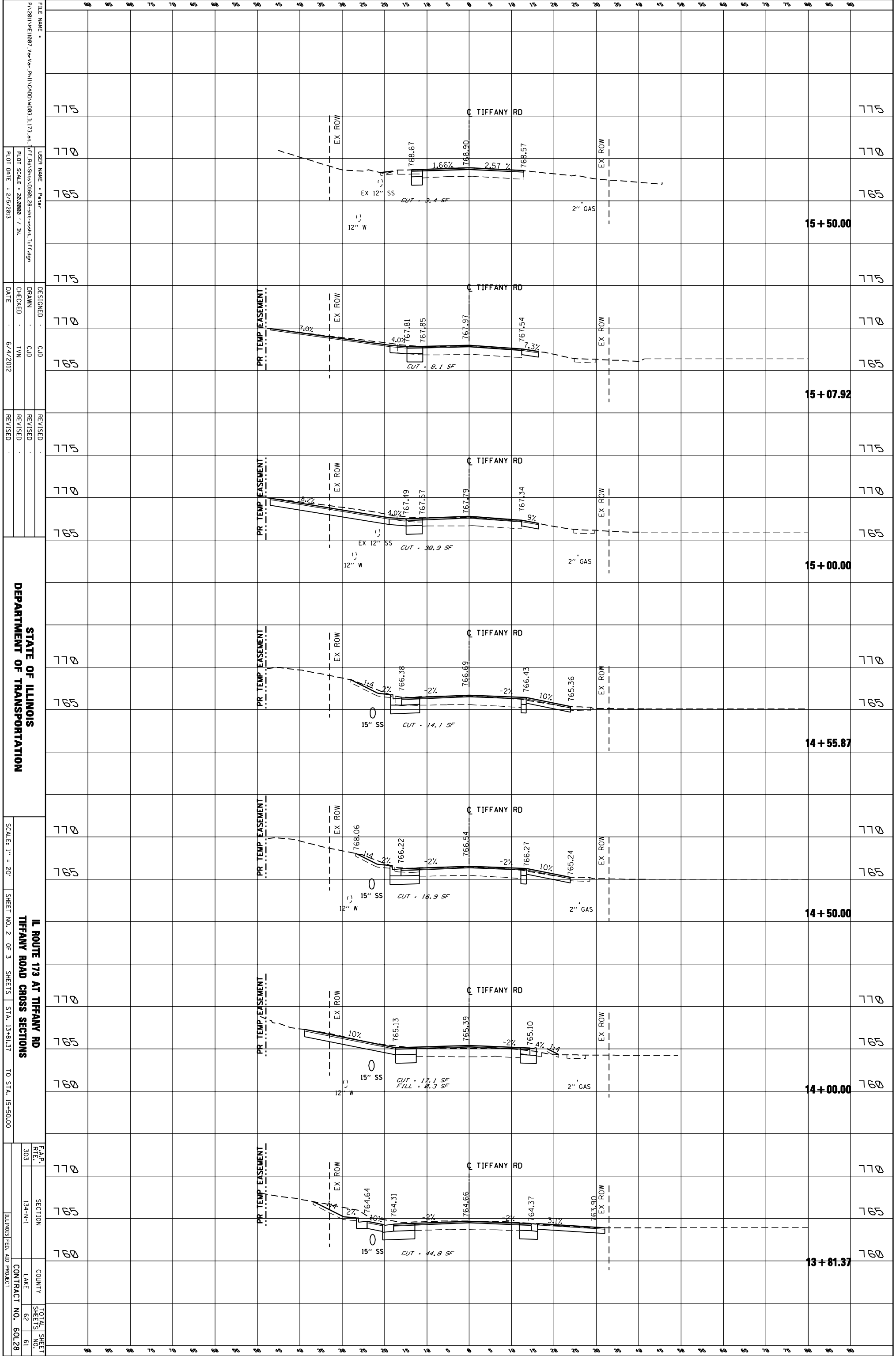
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL ROUTE 173 AT TIFFANY RD
 TIFFANY ROAD CROSS SECTIONS
 SCALE: 1" = 20'
 SHEET NO. 1 OF 3
 STA. 11+00.00 TO STA. 13+50.00

F.A.P. REF.	SECTION	COUNTY	TOTAL SHEET NO.
303	134-N-1	LAKE	62
			60

CONTRACT NO.	60128
--------------	-------

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME = P:\2011\1007_Ver-Ve-Plt\CD00_V003_IL173.dwg
 USER NAME = Peter
 DRWN = CJD
 CHECKED = TNV
 DATE = 6/4/2012

DESIGNED
 REVISIONS

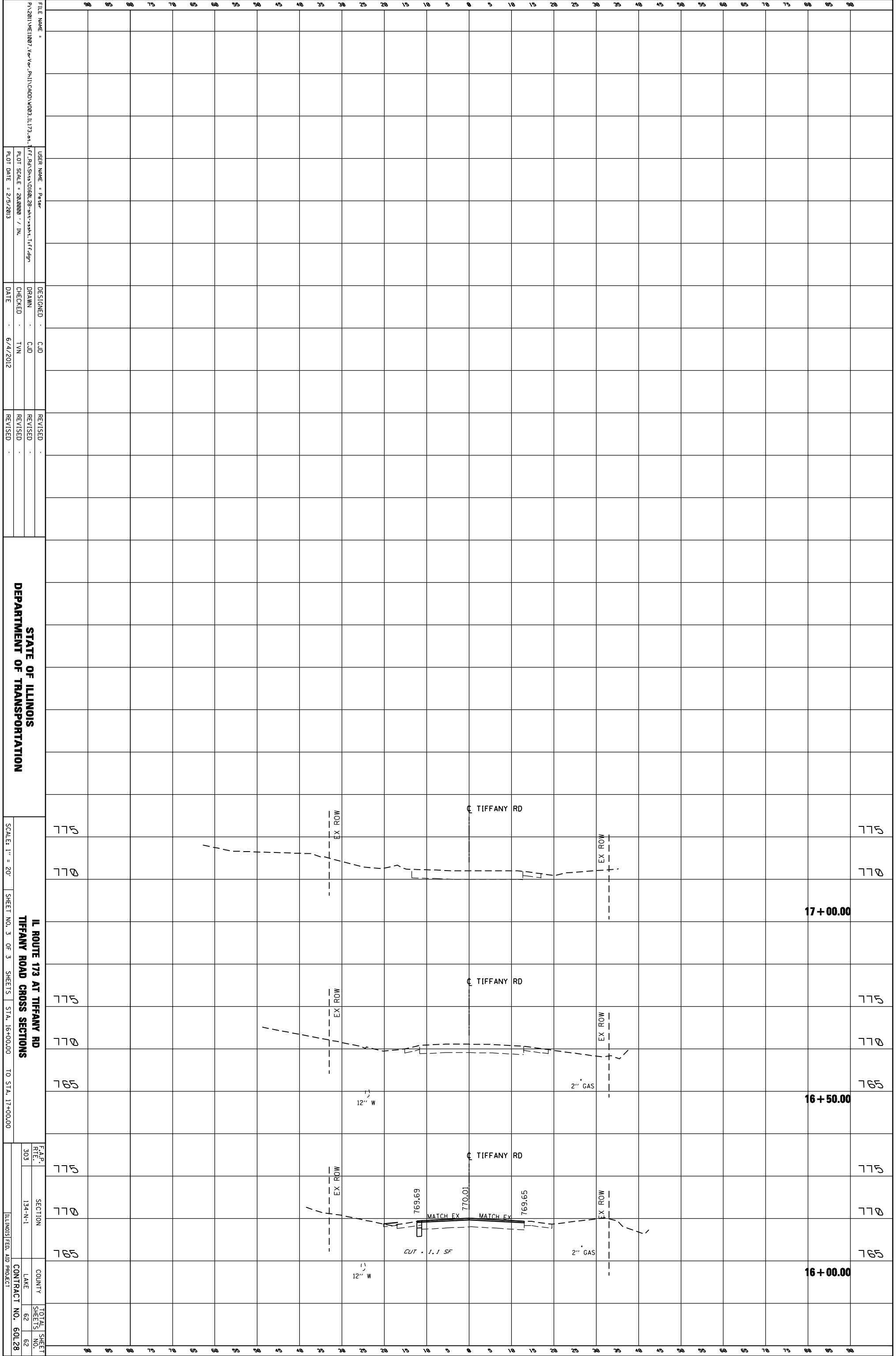
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 173 AT TIFFANY RD
 TIFFANY ROAD CROSS SECTIONS
 SCALE: 1" = 20'
 SHEET NO. 2 OF 3
 SHEETS STA. 13+81.37 TO STA. 15+50.00

F.A.P. REF. 303	SECTION 134-N-1	COUNTY LAKE	TOTAL SHEET NO. 62
			61
			CONTRACT NO. 60L28

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

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



FILE NAME = P:\2011\VE1007\ve-vor-P\1\CD00\0003_IL173.dwg
 USER NAME = Peter
 PLOT SCALE = 20/0000' / IN.
 PLOT DATE = 2/5/2013

DESIGNED - CJD
 DRAWN - CJD
 CHECKED - TVN
 DATE - 6/4/2012

REVISIONS
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SCALE: 1" = 20'
 SHEET NO. 3 OF 3
 STA. 16+00.00 TO STA. 17+00.00
 IL ROUTE 173 AT TIFFANY RD
 TIFFANY ROAD CROSS SECTIONS

F.A.P. REF.	SECTION	COUNTY	TOTAL SHEET NO.
303	134-N-1	LAKE	62
			62

CONTRACT NO. 60L28
 ILLINOIS FED. AID PROJECT