

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
515001-03	NAME PLATE FOR BRIDGES
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-03	MANHOLE TYPE A
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604051-04	FRAME AND GRATE TYPE 11
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

DISTRICT ONE STANDARD DETAILS

BD32	BUTT JOINT AND HMA TAPER DETAILS
TC10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS AND
DISTRICT ONE STANDARD DETAILS

SCALE: NONE STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	2
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-90021743				

GENERAL NOTES

COMMITMENTS

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS REPRESENTS ONLY THE OPINION OF THE VILLAGE AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THE ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY TO VERIFY THAT GRADE CONFLICTS WILL NOT OCCUR WITH ANY PROPOSED UTILITIES PRIOR TO CONSTRUCTION AND ORDERING ANY MATERIALS. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR. THE COST OF THIS EXPLORATION SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF ROUND LAKE DIRECTOR OF PUBLIC WORKS AT 1-847-546-0962 AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.
4. THE CONTRACTOR SHALL SUBMIT PARTIAL WAIVERS OF LIEN FROM ALL SUBCONTRACTORS AND SUPPLIERS WITH EACH PARTIAL PAYMENT ESTIMATE AND CONTRACTOR'S AFFIDAVIT FOR SUBCONTRACTORS AND SUPPLIERS WITH SECOND PAYMENT REQUEST FOR THE PREVIOUS PAYMENT ESTIMATES AND THEN WITH ALL SUBSEQUENT PAYMENT ESTIMATES.
5. THE ENGINEER WILL FURNISH A RESIDENT PROJECT REPRESENTATIVE (RPR) TO ASSIST THE ENGINEER IN PROVIDING JOB-SITE OBSERVATION OF THE CONTRACTOR'S WORK. THE RPR WILL PROVIDE BASE LINES, BENCHMARKS AND REFERENCE POINTS, ASSIST THE CONTRACTOR WITH INTERPRETATION OF THE PLANS AND SPECIFICATIONS, OBSERVE IN GENERAL IF THE CONTRACTOR'S WORK IS IN CONFORMITY WITH THE CONTRACT DOCUMENTS, AND MONITOR THE CONTRACTOR'S PROGRESS AS RELATED TO THE DATE OF COMPLETION. THE LIMITATIONS ON AUTHORITY AND RESPONSIBILITY OF THE ENGINEER SHALL ALSO APPLY TO THE ENGINEER'S CONSULTANTS, RESIDENT PROJECT REPRESENTATIVE AND ASSISTANTS.
6. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY.
7. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE PROVIDED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL.
8. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE VILLAGE WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL.
10. PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE THICKENED TO 6-INCHES AT LOCATIONS WHERE THE SIDEWALK CROSSES DRIVEWAYS. TRANSVERSE EXPANSION JOINTS 3/4" SHALL BE PLACED EVERY 50 FEET OR AS DETERMINED BY THE ENGINEER. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED EVERY 5-FEET.
11. A 1/2-INCH THICK EXPANSION JOINT SHALL BE PROVIDED AT THE JUNCTION OF THE DRIVEWAY APRON AND CURB, AND AT THE JUNCTION OF THE DRIVEWAY APRON AND THE SIDEWALK. THIS WORK WILL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT.
12. THE CONTRACTOR SHALL CONTACT THE LOCAL AGENCY MATERIAL INSPECTOR, SOIL AND MATERIAL CONSULTANTS, INC. AT 1-847-870-0544 AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.
13. ANY ANTI-STRIPPING ADDITIVE REQUIRED SHALL BE INCLUDED IN THE COST OF THE SURFACE COURSE.
14. ALL FRAME AND LID CASTINGS LOCATED WITHIN THE PAVEMENT WHICH REQUIRE RESETTING TO FINISH GRADE SHALL BE BACKFILLED WITH CLASS SI CONCRETE AND ALLOWED TO CURE FOR 72 HOURS PRIOR TO PLACEMENT OF SURFACE COURSE. CLASS PP CONCRETE SHALL BE USED IF PLACEMENT OF SURFACE COURSE IS PLANNED IN LESS THAN 72 HOURS. HMA MATERIALS WILL NOT BE ALLOWED AS BACKFILL AROUND AN ADJUSTED CASTING. THIS WORK SHALL APPLY TO ALL CASTINGS ADJUSTED OR RECONSTRUCTED AS PART OF THIS CONTRACT, WHETHER PAID FOR SEPARATELY OR INCLUDED IN OTHER CONTRACT WORK.
15. THE DAYS PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY OLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
16. PDF'S OF THE LATEST FULL SIZE PLAN SET AND SPECIAL PROVISIONS WILL BE PROVIDED ON A CD WHICH WILL BE GIVEN TO THE GENERAL CONTRACTOR AT THE PRECONSTRUCTION CONFERENCE FOR HIS USE. ADDITIONAL PAPER COPIES WILL NOT BE DISTRIBUTED BY THE ENGINEER.
17. IN AREAS WHERE THE EXISTING DRIVEWAY, SIDEWALK, OR CURB AND GUTTER IS TO BE REMOVED AND REPLACED, THE REMOVAL AND DISPOSAL OF ANY ADDITIONAL MATERIAL REQUIRED TO ESTABLISH THE PROPOSED DRIVEWAY, SIDEWALK, OR CURB AND GUTTER SUBGRADE ELEVATION SHALL BE INCLUDED IN THE APPROPRIATE REMOVAL PAY ITEMS.
18. THE CONTRACTOR WILL BE REQUIRED TO USE A STEEL PLATE OR PLATES TO CLOSE ANY GAPS OCCURRING WHEN A FRAME IS OFFSET FROM THE STRUCTURE. THE STEEL PLATE SHALL BE 1/2-INCH THICK AND APPROXIMATELY 6-INCH WIDE BY 24-INCH LONG. SOME ADJUSTMENT IN SIZE MAY BE NECESSARY TO PREVENT THE STEEL PLATE FROM OVERHANGING THE OUTSIDE OF THE STRUCTURE WALL. THE STEEL PLATE SHALL BE BEDDED IN AND COVERED WITH MORTAR. THIS WORK SHALL BE INCLUDED IN THE COST OF STRUCTURE ADJUSTMENTS OR STRUCTURE RECONSTRUCTIONS.
19. THE CURB SHALL BE TAPERED TO THE GUTTER IN A FIVE (5) FOOT LENGTH WHEREVER THE CURB AND GUTTER TERMINATES, WITH AN EXPANSION JOINT PLACED AT THE START OF THE TAPER.
20. TRENCH BACKFILL FOR THIS PROJECT SHALL CONSIST OF CRUSHED CA-6 AND SHALL BE COMPACTED BY METHOD 1 ONLY.
21. ALL POSTS, RAILROAD TIES, AND DECORATIVE TIMBER IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
22. PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING UTILITIES TO VERIFY THEIR LOCATION, SIZE, AND DEPTH TO INSURE THAT GRADE CONFLICTS WILL NOT OCCUR. THE COST OF THIS EXPLORATION SHALL BE PAID FOR AS EXPLORATION TRENCH, SPECIAL.
23. THE COST OF MAKING ANY SEWER CONNECTIONS TO EXISTING DRAINAGE STRUCTURES OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER OR STRUCTURE. ANY ADDITIONAL STORM SEWER PIPE REQUIRED TO MAKE THE CONNECTION SHALL BE OF THE SAME SIZE AND MATERIAL TYPE AS THE EXISTING STORM SEWER AND SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE.

24. IF ANY STORM SEWER LATERALS ARE FOUND DURING CONSTRUCTION AND ARE NOT IDENTIFIED ON THE PLANS, THEY SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM AND INCLUDED IN THE COST OF THE STORM SEWER CONSTRUCTION.
25. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.
26. ALL TEMPORARY STORM SEWER PLUGS AND TEMPORARY STORM SEWER CONNECTIONS REQUIRED FOR CONSTRUCTION STAGING SHALL BE INCLUDED IN THE COST OF THE STORM SEWER CONSTRUCTION.
27. IN ALL TRENCHES CROSSING DRIVEWAYS, SIDEWALKS, AND ALL PROPOSED AND EXISTING ROADWAYS, THE MATERIAL FOR THE TOP 12 INCHES SHALL BE CA-6 CRUSHED GRAVEL OR CRUSHED STONE AND BE INCLUDED IN THE PAY ITEM FOR TRENCH BACKFILL.
28. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
29. A PORTABLE BATHROOM(S) SHALL BE PLACED ON THE JOB SITE(S) AND RELOCATED WHEN NECESSARY SO IT IS ACCESSIBLE TO WORKERS. IF WORK IS OCCURRING AT SEVERAL LOCATIONS, ONE PORTABLE BATHROOM SHALL BE PLACED AT EACH LOCATION WITHIN A REASONABLE DISTANCE FROM THE WORK AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
30. PIPE UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL ON THE PLANS AND SHALL INCLUDE EXCAVATION; CONNECTIONS TO EXISTING OR PROPOSED STORM PIPES, DRAINAGE STRUCTURES OR PIPE DRAINS; GEOTECHNICAL FABRIC SOCK; AND CA-11 TRENCH BACKFILL TO THE BOTTOM OF THE HOT-MIX ASPHALT BASE COURSE.
31. IF MATERIAL IS TAKEN TO AN IEPA APPROVED FILL SITE, THE CONTRACTOR IS RESPONSIBLE FOR THE TESTING REQUIRED BY THE SITE WHICH INCLUDES: CERTIFYING SOILS ARE UNCONTAMINATED AND WITHIN PH OF 6.25 TO 9.0, COMPLETION OF IEPA FORM LPC-663 BY A LICENSED P.E., AND ADDITIONAL ANALYTICAL TESTING REQUIRED BY THE DISPOSAL SITE AND/OR ENGINEER. THE ENGINEER SHALL BE PROVIDED COPIES OF ALL TEST RESULTS AND CERTIFICATIONS (INCLUDING LPC-663), BASED ON PRELIMINARY SCREENING OF THE AREA. THE PROJECT SITE, TO THE OWNERS KNOWLEDGE, HAS NOT BEEN USED FOR COMMERCIAL OR INDUSTRIAL PURPOSES. PID OR FID READINGS ARE NOT ACCEPTABLE RESULTS FOR CLASSIFYING THE MATERIAL. IF REJECTED, ANALYTICAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 669.08. IF MATERIAL IS UNCONTAMINATED, IT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE PAY ITEM. IF MATERIAL IS UNCONTAMINATED, IT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE PAY ITEM. IF THE MATERIAL IS CLASSIFIED AS NON-SPECIAL WASTE, THE CONTRACTOR SHALL REUSE THE MATERIAL ON SITE AT NO ADDITIONAL COST. IF ON-SITE USE IS NOT FEASIBLE, DISPOSAL SHALL BE PAID FOR AS NON-SPECIAL WASTE DISPOSAL. ALL ADDITIONAL CERTIFICATIONS AND ANALYSIS COMPLETED BY THE CONTRACTOR SHALL BE PAID FOR AS "SOIL DISPOSAL ANALYSIS" AND "SPECIAL WASTE PLANS AND REPORTS".
32. THE CONTRACTOR SHALL REPLACE ALL STREET SIGNS AND MAIL BOXES REMOVED DURING CONSTRUCTION AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLES 107.20 AND 107.25.
33. ALL OPEN HOLE, BROKEN PAVEMENT AND TRENCHES RESULTING FROM STRUCTURE ADJUSTMENTS, OR CURB REPAIRS WORK SHALL BE BACKFILLED TO GRADE BY THE END OF THE DAY.
34. MATERIALS RESULTING FROM THE REMOVAL OF PAVEMENT, DRIVEWAYS, CURB AND GUTTER, HOT-MIX ASPHALT SURFACES, ETC. SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE. IN THE JUDGMENT OF THE ENGINEER, SHOULD IT BE NECESSARY TO REMOVE SUCH MATERIALS, THE ENGINEER WILL HAVE THE MATERIAL REMOVED AND THE CONTRACTOR WILL BE BILLED (CHARGED) ACCORDINGLY.
35. EXISTING PAVEMENT, DRIVEWAY PAVEMENT, CURB AND GUTTER AND SIDEWALK TO REMAIN IN PLACE SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING AND SHALL BE INCLUDED IN THE PRICE OF THE APPROPRIATE REMOVAL PAY ITEM.
36. CURB AND GUTTER SHALL BE DEPRESSED AT DRIVEWAYS AND SIDEWALK RAMPS IN ACCORDANCE WITH THE IDOT HIGHWAY STANDARDS. SIDEWALK RAMPS FOR ACCESS FOR THE DISABLED SHALL BE PROVIDED AT THE PROPOSED CROSSWALKS IN ACCORDANCE WITH THE IDOT HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.
37. IN AREAS WITH CURB & GUTTER REMOVAL AND REPLACEMENT, THE FINISHED HOT-MIX ASPHALT SURFACE SHALL BE CONSTRUCTED 0.25-INCH ABOVE THE GUTTER FLAG.
38. NEW OR REPLACEMENT CLOSED LIDS SHALL BE STAMPED WITH THE WORDS "VILLAGE OF ROUND LAKE" AND INDICATE THE STRUCTURE TYPE. STORM LIDS SHALL BE STAMPED WITH "STORM", SANITARY LIDS SHALL BE STAMPED WITH "SANITARY" AND WATER VALVE VAULT LIDS SHALL BE STAMPED WITH "WATER". STAMPING SHALL BE INCLUDED IN THE COST OF THE NEW LID OR STRUCTURE. ALL NEW TYPE 1 OPEN LIDS SHALL BE BICYCLE SAFE.
39. ANY DAMAGE TO PAVEMENT, SIDEWALK, CURB OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE.
40. CURB AND GUTTER AND DRIVEWAYS PROVIDING ACCESS SHALL BE REMOVED AND REPLACED WITHIN 3 DAYS.
41. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORICAL AS-BUILT OR OTHER RECORD PLANS AND DOCUMENTS MUST CONTACT THE OWNER OF RECORD TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION.
42. FRAMES, LIDS, GRATES, VALVES, FIRE HYDRANTS, ETC WHICH ARE TO BE ABANDONED OR REPLACED IN THIS PROJECT SHALL BE SALVAGED AND REMAIN PROPERTY OF ROUND LAKE. THE CONTRACTOR SHALL COORDINATE DELIVERY OR PICK UP OF THESE ITEMS WITH THE ENGINEER.
43. 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.
44. ONLY PERSONNEL FROM THE VILLAGE OF ROUND LAKE ARE ALLOWED TO OPERATE WATER VALVES.

NONE.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

SCALE: NONE

STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	3
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002(743)				

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	HBP FUNDS	100% LOCAL
				(80% FED/20% LOCAL) CONSTRUCTION TYPE CODE 0017	NON-PARTICIPATING
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	74	74	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	156	156	
20101100	TREE TRUNK PROTECTION	EACH	8	8	
* 20101200	TREE ROOT PRUNING	EACH	8	8	
20200100	EARTH EXCAVATION	CU YD	393	393	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	279	279	
20300100	CHANNEL EXCAVATION	CU YD	430	430	
20800150	TRENCH BACKFILL	CU YD	111	111	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	916	916	
* 21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,026	1,026	
* 25000312	SEEDING, CLASS 4A	ACRE	0.2	0.2	
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1,026	1,026	
* 25200110	SODDING, SALT TOLERANT	SQ YD	1,026	1,026	
* 25200200	SUPPLEMENTAL WATERING	UNIT	25	25	
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25	25	

* DENOTES SPECIALITY ITEM
SP DENOTES ITEMS COVERED BY SPECIAL PROVISIONS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	HBP FUNDS	100% LOCAL
				(80% FED/20% LOCAL) CONSTRUCTION TYPE CODE 0017	NON-PARTICIPATING
28000305	TEMPORARY DITCH CHECKS	FOOT	110	110	
28000400	PERIMETER EROSION BARRIER	FOOT	671	671	
28000510	INLET FILTERS	EACH	2	2	
28100109	STONE RIPRAP, CLASS A5	SQ YD	368	368	
28200200	FILTER FABRIC	SQ YD	368	368	
SP 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	147	147	
SP 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	916	916	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	271	271	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,692	1,692	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	154	154	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	77	77	
42001300	PROTECTIVE COAT	SQ YD	369	369	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	76	76	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	25	25	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,072	2,072	

* DENOTES SPECIALITY ITEM
SP DENOTES ITEMS COVERED BY SPECIAL PROVISIONS

SUMMARY OF QUANTITIES		MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	STA.	1013	11-00034-00-BR	LAKE	52	4
TO STA.	CONTRACT NO. 61B93		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-90021743			

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CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	HBP FUNDS (80% FED/20% LOCAL)	100% LOCAL
				CONSTRUCTION TYPE CODE 0011	NON-PARTICIPATING
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	140	140	
44000100	PAVEMENT REMOVAL	SQ YD	1,002	1,002	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	25	25	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	666	666	
44000600	SIDEWALK REMOVAL	SQ FT	1,359	1,359	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	24	24	
50200100	STRUCTURE EXCAVATION	CU YD	280	280	
50300225	CONCRETE STRUCTURES	CU YD	71.6	71.6	
50300254	RUBBED FINISH	SQ FT	200	200	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	92.4	92.4	
50300260	BRIDGE DECK GROOVING	SQ YD	256	256	
SP 50300285	FORM LINER TEXTURED SURFACE	SQ FT	210		210
50300300	PROTECTIVE COAT	SQ YD	412	412	
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	2,088	2,088	

* DENOTES SPECIALITY ITEM
 SP DENOTES ITEMS COVERED BY SPECIAL PROVISIONS

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	HBP FUNDS (80% FED/20% LOCAL)	100% LOCAL
				CONSTRUCTION TYPE CODE 0011	NON-PARTICIPATING
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	32,050	32,050	
* 50901750	PARAPET RAILING	FOOT	102	102	
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	928	928	
51202305	DRIVING PILES	FOOT	928	928	
51203200	TEST PILE METAL SHELLS	EACH	2	2	
51500100	NAME PLATES	EACH	1	1	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	25	25	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	85	85	
SP * 56100015	DUCTILE IRON WATER MAIN TEE, 8" X 6"	EACH	1	1	
SP * 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	5	5	
SP * 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	148	148	
SP * 56105000	WATER VALVES 8"	EACH	1	1	
SP * 56109400	DUCTILE IRON WATER MAIN FITTINGS 8" 11.25 DEGREE BEND	EACH	1	1	
SP * 56109408	DUCTILE IRON WATER MAIN FITTINGS 8" 22.50 DEGREE BEND	EACH	1	1	
SP * 56109420	DUCTILE IRON WATER MAIN FITTINGS 8" 45.00 DEGREE BEND	EACH	4	4	

* DENOTES SPECIALITY ITEM
 SP DENOTES ITEMS COVERED BY SPECIAL PROVISIONS



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-90021743			CONTRACT NO. 61B93	

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 BRIDGE/CADD-SURVEY/Drawings/DCNS/Phase 2/100730_S003.sht

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	HBP FUNDS (80% FED/20% LOCAL)	
				CONSTRUCTION TYPE CODE 0011	100% LOCAL NON-PARTICIPATING
SP *	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1	1
SP *	56400800	FIRE HYDRANTS	EACH	1	1
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	67	67
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	5	5
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	3	3
SP *	60248700	VALVE VAULT, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
	60251500	CATCH BASINS TO BE ADJUSTED WITH NEWTYPE 11 FRAME AND GRATE GRATE	EACH	1	1
	60261300	INLETS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	1	1
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	546	546
*	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8
	67100100	MOBILIZATION	L SUM	1	1
	72000100	SIGN PANEL - TYPE 1	SQ FT	40	40
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	5	5

* DENOTES SPECIALITY ITEM
 SP DENOTES ITEMS COVERED BY SPECIAL PROVISIONS

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	HBP FUNDS (80% FED/20% LOCAL)	
				CONSTRUCTION TYPE CODE 0011	100% LOCAL NON-PARTICIPATING
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	2	2
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	112	112
*	A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4
*	A2005316	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4
*	B2001616	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	5.0	5.0
SP	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
SP	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	74.6	74.6
SP *	X0324931	DUCTILE IRON SLEEVE 8"	EACH	1	1
SP	X0326671	CONCRETE SURFACE COLOR TREATMENT	SQ FT	210	210
SP	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	35	65
SP	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1
SP	X4023000	TEMPORARY ACCESS (ROAD)	EACH	2	2
SP	X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	232	232
SP *	X5610708	WATER MAIN REMOVAL, 8"	FOOT	150	150

* DENOTES SPECIALITY ITEM
 SP DENOTES ITEMS COVERED BY SPECIAL PROVISIONS



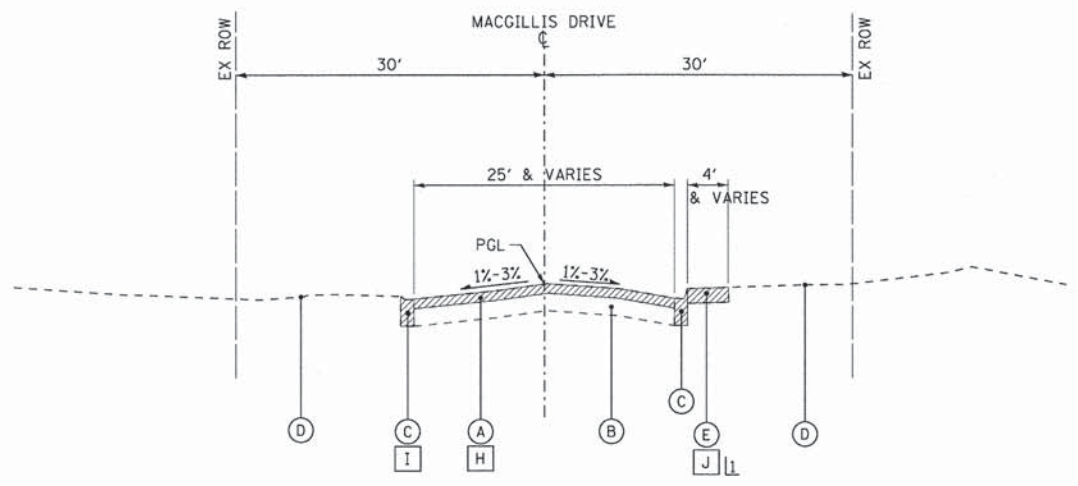
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STATE OF ILLINOIS
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SUMMARY OF QUANTITIES

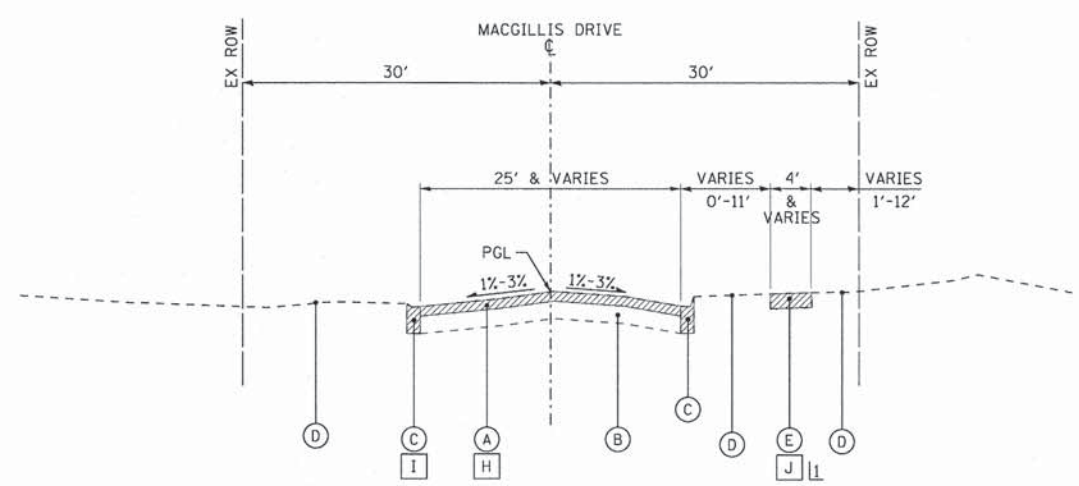
SCALE: NONE STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	6
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-900217431				



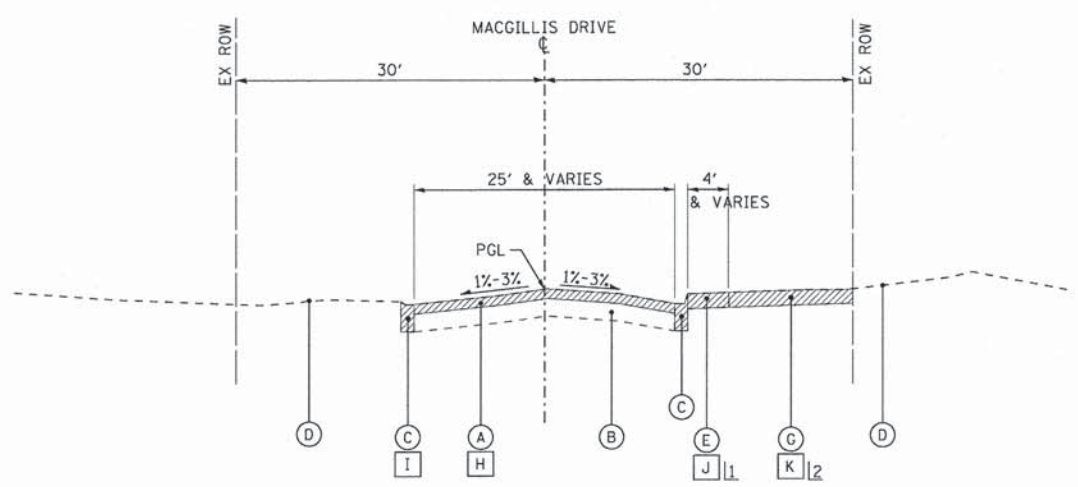
**EXISTING TYPICAL SECTION
MACGILLIS DRIVE**
STA 98+35.00 TO STA 99+30.33

I1 AGGREGATE BASE COURSE REMOVAL INCLUDED IN SIDEWALK REMOVAL



**EXISTING TYPICAL SECTION
MACGILLIS DRIVE**
STA 100+26.10 TO STA 102+00.00

I1 AGGREGATE BASE COURSE REMOVAL INCLUDED IN SIDEWALK REMOVAL



**EXISTING TYPICAL SECTION
MACGILLIS DRIVE**
STA 99+30.33 TO STA 99+73.90
(BRIDGE OMISSION STA 99+73.90 TO STA 100+26.10)

I1 AGGREGATE BASE COURSE REMOVAL INCLUDED IN SIDEWALK REMOVAL
I2 AGGREGATE BASE COURSE REMOVAL INCLUDED IN DRIVEWAY PAVEMENT REMOVAL
K1
K2

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT - (VARIES 4 1/2" - 8")
- (B) AGGREGATE BASE COURSE - (VARIES 7 3/4" - 12")
- (C) EXISTING COMB CONC CURB & GUTTER, TYPE M-2.12
- (D) EXISTING GROUND
- (E) EXISTING SIDEWALK
- (F) EXISTING SHARED USE PATH
- (G) EXISTING PCC DRIVEWAY PAVEMENT
- (H) PAVEMENT REMOVAL
- (I) COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- (J) SIDEWALK REMOVAL
- (K) DRIVEWAY PAVEMENT REMOVAL
- [Hatched Box] ITEM TO BE REMOVED

EXISTING TYPICAL SECTION NOTES:

1. THE PAVEMENT AND BASE COURSE THICKNESS WERE TAKEN FROM THE "STRUCTURAL GEOTECHNICAL REPORT" PREPARED BY SOIL AND MATERIALS CONSULTANTS, INC. (SMC) DATED OCTOBER 20, 2011.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE THICKNESSES OF THE EXISTING PAVEMENT TO BE REMOVED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF VARIATIONS FROM THE ASSUMED THICKNESS SHOWN ON THE PLANS.

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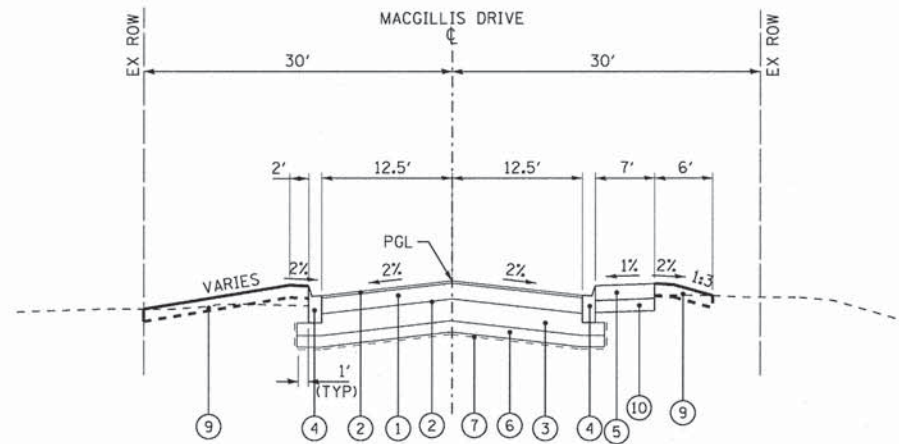
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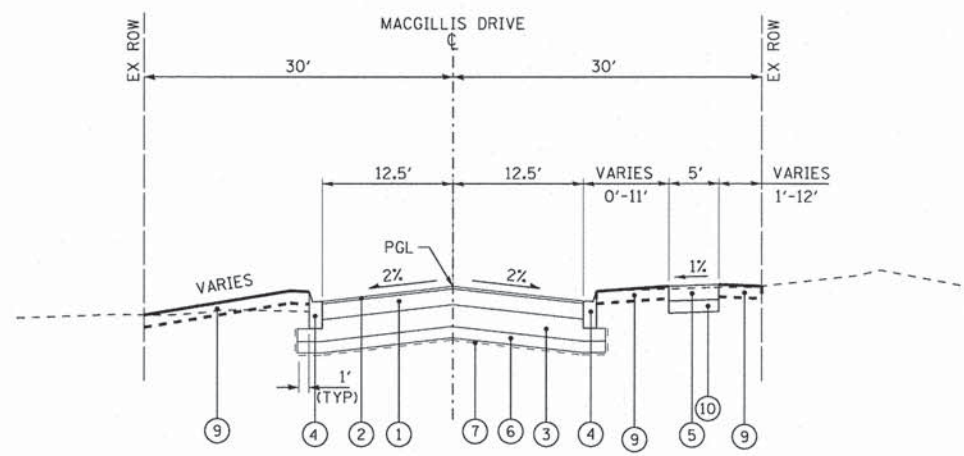
TYPICAL SECTIONS

SCALE: NONE STA. TO STA.

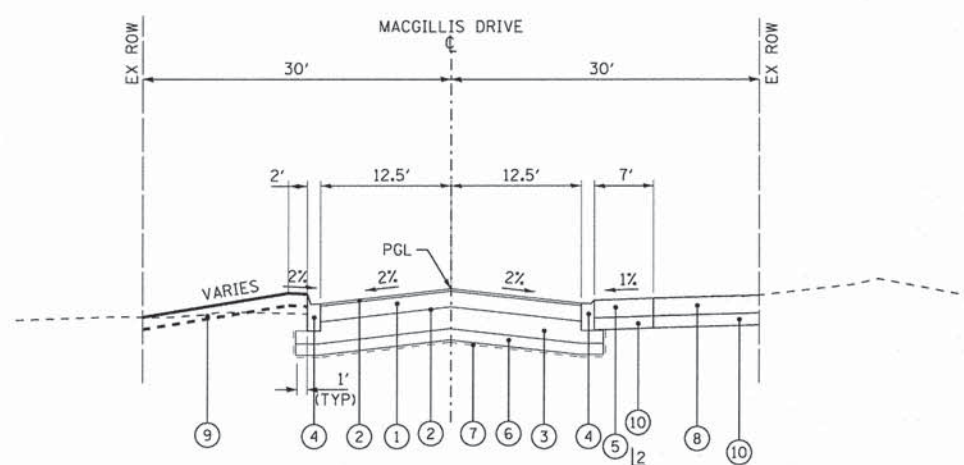
MJN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	8
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-9002(743)				



**PROPOSED TYPICAL SECTION
MACGILLIS DRIVE**
STA 98+35.00 TO STA 99+30.33



**PROPOSED TYPICAL SECTION
MACGILLIS DRIVE**
STA 100+26.10 TO STA 102+00.00



**PROPOSED TYPICAL SECTION
MACGILLIS DRIVE**
STA 99+30.33 TO STA 99+73.90
(BRIDGE OMISSION STA 99+73.90 TO STA 100+26.10)

12 8 INCH IN COMMERCIAL DRIVEWAYS

PROPOSED LEGEND

- 1 FULL DEPTH PAVEMENT, 6" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50-4"
- 2 BITUMINOUS MATERIALS (PRIME COAT)
- 3 AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 4 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (FLAG DEPTH - 9" MIN)
- 5 PCC SIDEWALK, 5-INCH
- 6 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL ** AGGREGATE SUBGRADE IMPROVEMENT (CU YD)
- 7 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 8 PCC DRIVEWAY PAVEMENT - 8"
- 9 TOPSOIL FURNISH AND PLACE, 6" SODDING, SALT TOLERANT
- 10 AGGREGATE BASE COURSE TYPE B - 4"

NOTES:

1. **AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH COARSE AGGREGATE FOR AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY USE OF CONE PENETROMETER OR PROOFROLLING. IF UNSTABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH COARSE AGGREGATE. THE REMOVAL AND REPLACEMENT AREA SHALL EXTEND TO 12 INCHES BEYOND THE BACK OF CURB AND GUTTER AND COME UP AT A 1:1 SLOPE TO AGGREGATE SUBGRADE IMPROVEMENT 12". THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS SO WARRANT. REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL." ANY COARSE AGGREGATE AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR GROUND STABILIZATION NOT NEEDED AT THE TIME OF CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE 'SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NONE STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002(743)				CONTRACT NO. 61B93

EARTHWORK SUMMARY

LOCATION STA TO STA	1 UNDERCUT AND AGG SUBGRADE IMPROVEMENT (CY)	2 UNSUITABLE EXCAVATION (TOPSOIL) (CY)	3 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CY)	4 EARTH EXCAVATION (20200100) (CY)	5 CHANNEL EXCAVATION (CY)	6 STRUCTURE EXCAVATION (CY)	7 TOTAL SUITABLE EXCAVATION (CY)	8 EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CY)	9 EMBANKMENT (CY)	10 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CY)	
MACGILLIS DRIVE											
98+35.00	98+50.00	0.0	7.2	7.2	14.1	0.0	0.0	14.1	12.0	7.9	4.1
98+50.00	99+00.00	27.8	25.8	53.6	43.7	0.0	0.0	43.7	37.1	21.4	15.7
99+00.00	99+40.45	44.9	21.0	65.9	43.2	0.0	0.0	43.2	36.7	6.8	29.9
99+40.45	99+50.00	13.3	5.0	18.2	10.9	0.0	0.0	10.9	9.2	1.6	7.6
99+50.00	99+53.91	3.3	2.0	5.3	3.9	0.0	0.0	3.9	3.3	0.8	2.5
99+53.91	99+62.90	15.0	3.4	18.4	4.5	0.0	0.0	4.5	3.8	1.6	2.2
99+62.90	99+73.90	17.4	2.7	20.1	0.0	0.0	0.0	0.0	0.0	1.7	-1.7
99+73.90	100+26.10	0.0	0.0	0.0	0.0	280.0	0.0	0.0	0.0	0.0	0.0
100+26.10	100+37.10	17.4	3.1	20.5	20.9	0.0	0.0	20.9	17.8	3.6	14.2
100+37.10	100+46.10	7.5	2.6	10.1	17.1	0.0	0.0	17.1	14.5	3.0	11.6
100+46.10	100+50.00	10.7	5.2	16.0	19.2	0.0	0.0	19.2	16.3	2.7	13.6
100+50.00	101+00.00	0.0	22.5	22.5	65.9	0.0	0.0	65.9	56.0	2.5	53.5
101+00.00	101+50.00	0.0	18.5	18.5	72.7	0.0	0.0	72.7	61.8	0.5	61.3
101+50.00	102+00.00	0.0	18.2	18.2	60.3	0.0	0.0	60.3	51.3	2.4	48.9
SQUAW CREEK											
10+41.60	10+50.00	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0
10+50.00	10+75.00	0.0	0.0	0.0	0.0	65.6	0.0	0.0	0.0	0.0	0.0
10+75.00	11+00.00	0.0	0.0	0.0	0.0	93.9	0.0	0.0	0.0	0.0	0.0
11+00.00	11+25.00	0.0	0.0	0.0	0.0	120.3	0.0	0.0	0.0	0.0	0.0
11+25.00	11+50.00	0.0	0.0	0.0	0.0	138.7	0.0	0.0	0.0	0.0	0.0
11+50.00	11+51.28	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0
TOTALS		157	137	294	376	430	280	376	320	56	264

EARTHWORK SUMMARY

	TOTAL	CU YD
(20200100) EARTH EXCAVATION	376	CU YD
(20201200) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	294	CU YD
(30300001) AGGREGATE SUBGRADE IMPROVEMENT	157	CU YD
(20400800) FURNISHED EXCAVATION	0	CU YD
(20300100) CHANNEL EXCAVATION	430	CU YD

- COLUMN 1 = FROM BORING SUBGRADE RECOMMENDATIONS (ESTIMATED)
- COLUMN 2 = 6 INCH TOPSOIL DEPTH
- COLUMN 3 = COLUMN 1 + COLUMN 2
- COLUMN 4 = FROM CROSS SECTION END AREAS OUTSIDE OF STRUCTURE
- COLUMN 5 = EXCAVATION WITHIN STREAM BANKS (OMIT EXISTING BRIDGE AND STRUCTURE EXCAVATION)
- COLUMN 6 = STRUCTURE
- COLUMN 7 = COLUMN 4 + COLUMN 5 + COLUMN 6 (OMIT BRIDGE SECTION)
- COLUMN 8 = COLUMN 7 x (0.85)
- COLUMN 9 = FROM CROSS SECTION END AREAS
- COLUMN 10 = COLUMN 8 - COLUMN 9

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EARTHWORK SCHEDULE	
SCALE: NONE	STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	10
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-9002(743)			CONTRACT NO. 61B93	

DRIVEWAY SCHEDULE							
STATION	LOCATION	EXISTING APRON MATERIAL	DRIVEWAY PAVEMENT REMOVAL (SQ YD)	PCC DRIVEWAY PAVEMENT 8" (SQ YD)	AGG. BASE COURSE TYPE B 4" (SQ YD)	PROTECTIVE COAT (SQ YD)	TEMP. ACCESS (CE) (EACH)
MACGILLIS DRIVE							
99+40.5	RT	PCC	24	20	20	20	1
TOTAL - MACGILLIS DRIVE			24	20	20	20	1

RESTORATION SCHEDULE									
STATION	STATION	LOCATION	AREA (SQ FT)	TOPSOIL FURNISH AND PLACE, 6" (SQ YD)	HEAVY DUTY EROSION CONTROL BLANKET (SQ YD)	TEMPORARY EROSION CONTROL SEEDING (POUND)	SUPPLEMENTAL WATERING (UNIT)	SODDING, SALT TOLERANT (SQ YD)	SEEDING, CLASS 4A (ACRE)
MACGILLIS DRIVE									
98+35	99+66	LT	1803	201	201	5	5	201	
99+47	99+70	LT	189	21	42	1			0.1
99+83	100+16	LT	648	72	144	2			0.1
100+16	102+00	LT	1781	198	198	5	4	198	
98+35	99+33	RT	896	100	100	3	2	100	
99+48	99+78	RT	299	34	34	1	1	34	
99+81	100+21	RT	740	83	166	2			0.1
100+26	100+50	RT	198	22	44	1			0.1
100+50	102+00	RT	1771	197	197	5	4	197	
TOTAL - MACGILLIS DRIVE				928	1126	25	16	730	0.1

NOTE: SEEDING, CLASS 4A TO BE PLACED OUTSIDE OF THE RIGHT-OF-WAY AS SHOWN IN THE PLANS

PERIMETER EROSION BARRIER				
STATION	OFFSET	STATION	OFFSET	LENGTH (FT)
MACGILLIS DRIVE				
98+35	27.5' LT	99+48	28' LT	113
99+48	28' LT	99+55	38' LT	16
99+88	54' LT	100+17	28' LT	49
100+17	28' LT	102+00	20' LT	185
98+35	37' RT	99+33	31' RT	101
99+48	30' RT	99+82	30' RT	34
99+82	30' RT	100+17	52' RT	57
100+36	43' RT	100+49	30' RT	21
100+49	30' RT	100+93	30' RT	44
TOTAL - MACGILLIS DRIVE				620

AGGREGATE SUBGRADE IMPROVEMENT 12"				
STATION	STATION	WIDTH (FT)	AREA (SQ FT)	QTY (SQ YD)
MACGILLIS DRIVE				
98+35	99+40	25	2627	361
99+40	99+53.90	VARIES	261	30
100+46.10	100+60	VARIES	261	30
100+60	102+00	25	3502	478

PAVEMENT REMOVAL					
STATION	STATION	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
MACGILLIS DRIVE					
98+35	99+83	MAINLINE	148	25	417
100+16	102+00	MAINLINE	184	25	516
TOTAL - MACGILLIS DRIVE					933

CONCRETE REMOVAL (SPECIAL)					
STATION	STATION	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
MACGILLIS DRIVE					
99+58	99+73	CONCRETE REMOVAL LT & SOUTH OF BRIDGE			16
99+95	100+13	CONCRETE REMOVAL LT & NORTH OF BRIDGE			10
99+88	100+13	CONCRETE REMOVAL RT & SOUTH OF BRIDGE			37
100+14	100+37	CONCRETE REMOVAL RT & NORTH OF BRIDGE			17
TOTAL - MACGILLIS DRIVE					80

TREE REMOVAL (6-15 UNITS DIAMETER)				
STATION	OFFSET	DESCRIPTION / DIAMETER	UNITS	
MACGILLIS DRIVE				
98+64	22' RT	12"	12	
100+02	36' LT	2 X 14", 1 X 8"	36	
100+07	28' LT	14"	14	
100+39	42' RT	12"	12	
TOTAL - MACGILLIS DRIVE			74	

TREE REMOVAL (OVER 15 UNITS DIAMETER)				
STATION	OFFSET	DESCRIPTION / DIAMETER	UNITS	
MACGILLIS DRIVE				
99+90	37' LT	36"	36	
100+10	48' RT	6 X 20"	120	
TOTAL - MACGILLIS DRIVE			156	

ROADWAY ITEMS								
STATION	STATION	WIDTH (FT)	AREA (SQ FT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-2" (TON)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50-4" (TON)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) (SQ YD)
MACGILLIS DRIVE								
98+35	99+40	25	2627	33	66	723	361	
99+40	99+54	VARIES	348				30	39
100+46	100+60	VARIES	348				30	39
100+60	102+00	25	3502	44	88	963	478	
TOTAL - MACGILLIS DRIVE				77	154	1686	899	78

NOTE: USED 112 LB/SY-IN FOR HMA SURFACE COURSE AND HMA BINDER COURSE
 NOTE: BITUMINOUS MATERIALS = 1 APPLICATION ON AGGREGATE BASE (0.25 LB/SF) + 1 APPLICATION ON BINDER COURSE (0.025 LB/SF)
 NOTE: AGGREGATE SUBGRADE IMPROVEMENT 12" = 1' BEYOND BACK OF CURB

SIDEWALK SCHEDULE										
STATION	STATION	LOCATION	THICKNESS (IN)	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)	PCC SIDEWALK 5 INCH (SQ FT)	PCC SIDEWALK 8 INCH (SQ FT)	PROTECTIVE COAT (SQ YD)	AGGREGATE BASE COURSE, TY B 4" (SQ YD)
MACGILLIS DRIVE										
98+35	99+30	RT	5	95	7	665	665		74	74
99+30	99+50	RT	8	20	7	140		140	16	16
99+50	99+85	RT	5	35	7	232	232		26	26
100+34	102+00	RT	5	166	5	826			92	92
TOTAL - MACGILLIS DRIVE						1723		140	208	208

SIDEWALK REMOVAL						
STATION	STATION	LOCATION	EXISTING MATERIAL	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)
MACGILLIS DRIVE						
98+35	99+93	RT	CONC	158	4 - 4.5	624
100+24	102+00	RT	CONC	176	4 - 4.5	700
TOTAL - MACGILLIS DRIVE						1324

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.1				
STATION	STATION	LOCATION	LENGTH (FT)	
MACGILLIS DRIVE				
98+35	99+62	RT	127	
100+54	102+00	RT	146	
98+35	99+46	LT	111	
100+38	102+00	LT	162	
TOTAL - MACGILLIS DRIVE			546	

COMBINATION CURB AND GUTTER REMOVAL				
STATION	STATION	LOCATION	LENGTH (FT)	
MACGILLIS DRIVE				
98+35	99+91	RT	156	
98+35	99+77	LT	142	
100+24	102+00	RT	176	
100+08	102+00	LT	192	
TOTAL - MACGILLIS DRIVE			666	

SIGNING SCHEDULE									
TYPE	DESCRIPTION	SIZE	STATION	OFFSET	SIGN PANEL - TYPE 1 (SQ FT)	TELESCOPING STEEL SIGN SUPPORT (FT)	REMOVE SIGN PANEL ASSEMBLY TYPE A (EACH)	REMOVE SIGN PANEL ASSEMBLY TYPE B (EACH)	
R2-1	SPEED LIMIT 25	24" X 30"	98+70	LT	5	15	1		
	BRIDGE WEIGHT LIMIT		99+42	LT				1	
	BRIDGE WEIGHT LIMIT		101+14	LT				1	
	NO PARKING	12" X 18"	102+22	LT	1.5	15	1		
R2-1	SPEED LIMIT 25	24" X 30"	103+10	LT	5	15	1		
TOTAL - MACGILLIS DRIVE					12	45	3	2	

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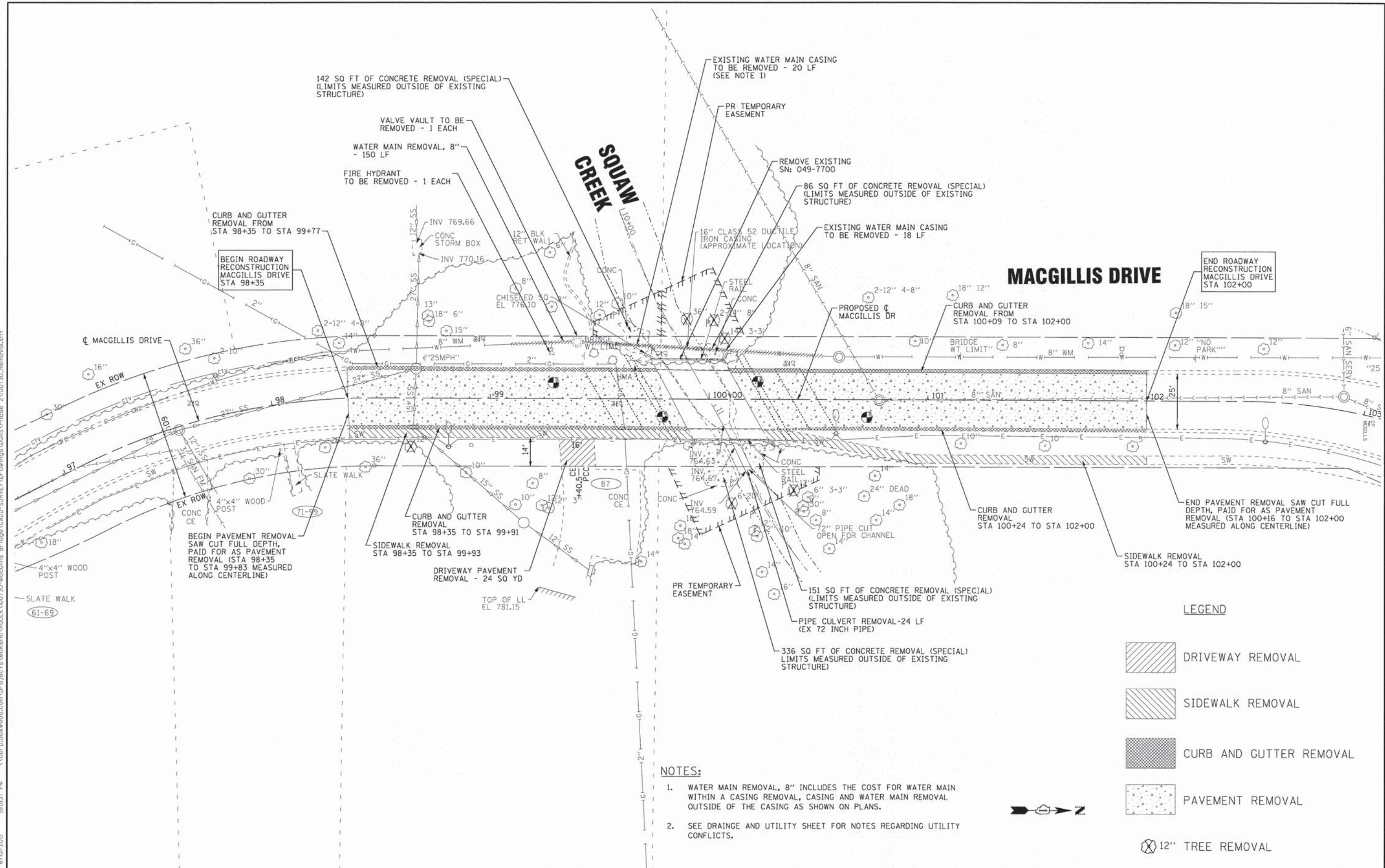
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SCHEDULE OF QUANTITIES

SCALE: NONE






STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	11
CONTRACT NO. 61B93			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002743	



MACGILLIS DRIVE

SQUAW CREEK

- LEGEND**
-  DRIVEWAY REMOVAL
 -  SIDEWALK REMOVAL
 -  CURB AND GUTTER REMOVAL
 -  PAVEMENT REMOVAL
 -  12" TREE REMOVAL

- NOTES:**
1. WATER MAIN REMOVAL, 8" INCLUDES THE COST FOR WATER MAIN WITHIN A CASING REMOVAL, CASING AND WATER MAIN REMOVAL OUTSIDE OF THE CASING AS SHOWN ON PLANS.
 2. SEE DRAINAGE AND UTILITY SHEET FOR NOTES REGARDING UTILITY CONFLICTS.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

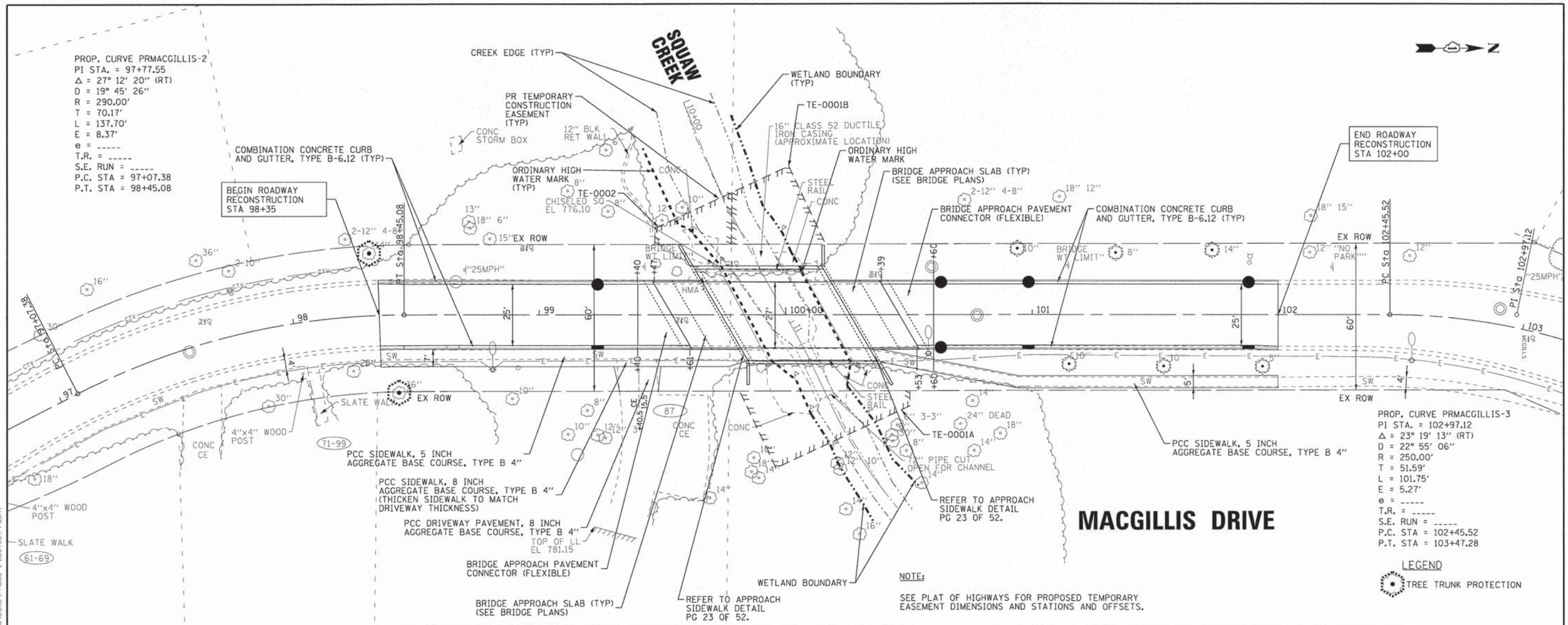
**EXISTING CONDITIONS AND
REMOVAL PLAN**

SCALE: 1"=20'

STA. 97+00 TO STA. 103+00

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	13
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT BRM-9002743			CONTRACT NO. 61B93	

PROP. CURVE PRMACGILLIS-2
 PI STA. = 97+77.55
 $\Delta = 27^\circ 12' 20''$ (RT)
 $D = 19^\circ 45' 26''$
 $R = 290.00'$
 $T = 70.17'$
 $L = 137.70'$
 $E = 8.37'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA = 97+07.38
 P.T. STA = 98+45.08

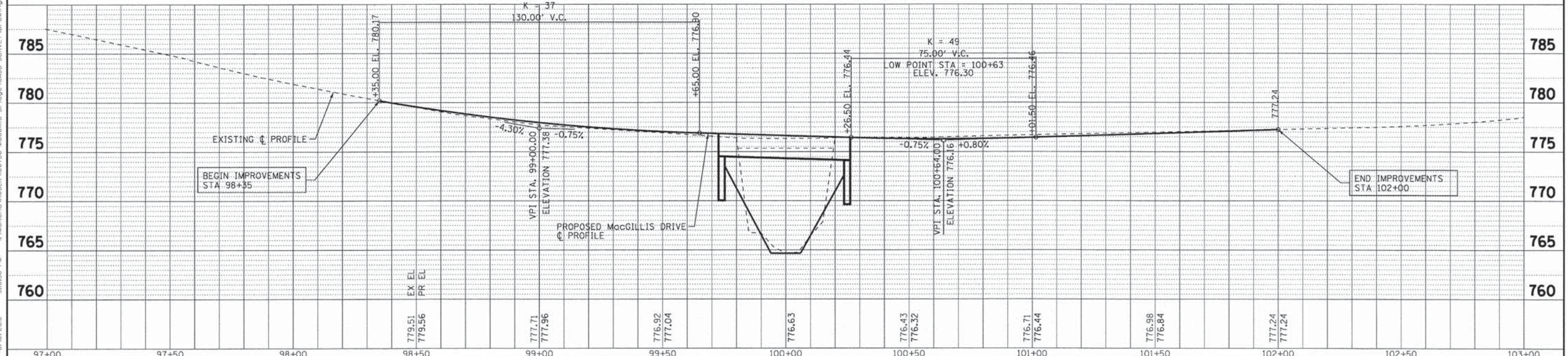


PROP. CURVE PRMACGILLIS-3
 PI STA. = 102+97.12
 $\Delta = 23^\circ 19' 13''$ (RT)
 $D = 22^\circ 55' 06''$
 $R = 250.00'$
 $T = 51.59'$
 $L = 101.75'$
 $E = 5.27'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA = 102+45.52
 P.T. STA = 103+47.28

MACGILLIS DRIVE

LEGEND
 TREE TRUNK PROTECTION

NOTE:
 SEE PLAT OF HIGHWAYS FOR PROPOSED TEMPORARY EASEMENT DIMENSIONS AND STATIONS AND OFFSETS.



97+00	97+50	98+00	98+50	99+00	99+50	100+00	100+50	101+00	101+50	102+00	102+50	103+00
779.51	779.56	777.71	777.96	776.92	777.04	776.63	776.43	776.32	776.71	776.44	776.98	776.84
779.56		777.38		777.04		776.63	776.32	776.16	776.44		777.24	777.24

BAXTER & WOODMAN
 Consulting Engineers

DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
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DATE - 08-07-15	FILE - 100730_PPI.shx

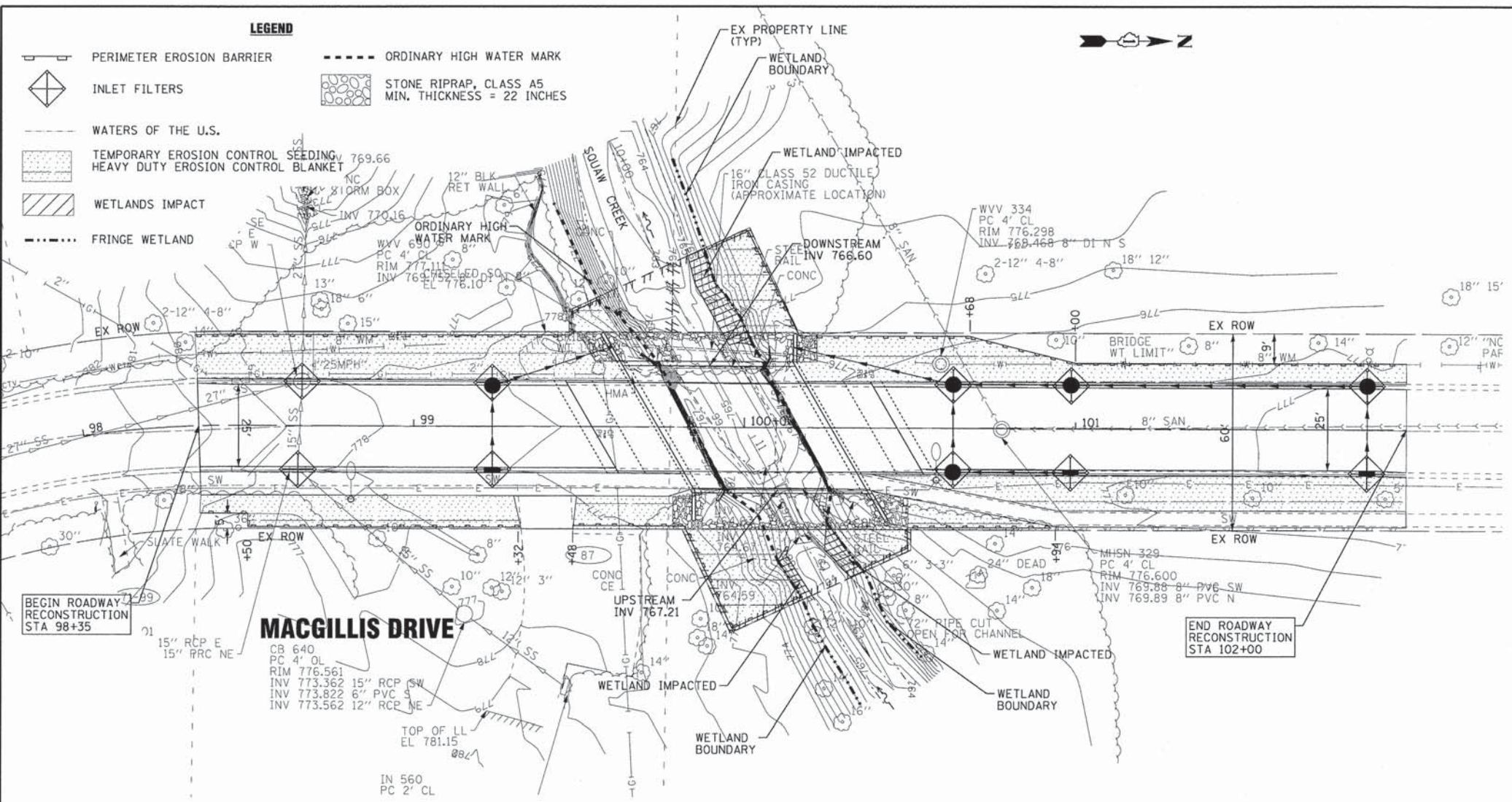
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 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: H: 1"=20' V: 1"=5'
 STA. 97+00 TO STA. 103+00

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	14
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-90021743				

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LEGEND

- PERIMETER EROSION BARRIER
- INLET FILTERS
- WATERS OF THE U.S.
- TEMPORARY EROSION CONTROL SEEDING, HEAVY DUTY EROSION CONTROL BLANKET
- WETLANDS IMPACT
- FRINGE WETLAND
- ORDINARY HIGH WATER MARK
- STONE RIPRAP, CLASS A5 MIN. THICKNESS = 22 INCHES

GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
3. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
4. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH MAT OR BLANKET IN COMBINATION WITH SEEDING.
5. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
6. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
7. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED, THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR OF EROSION CONTROL MEASURES.
8. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
9. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MCHENRY-LAKE COUNTY SWCD, LAKE COUNTY SMC, ENGINEER, OR LOCAL AGENCY.
10. CONTRACTOR SHALL COMPLY WITH OSHA WORK AND SAFETY RULES.
11. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND OTHER INTERESTED REGULATORY AGENCIES AND OFFICIALS PRIOR TO CONSTRUCTION.
12. COMPLY WITH REQUIREMENTS FROM THE U.S. ARMY CORPS OF ENGINEERS, NORTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT, AND VILLAGE OF ROUND LAKE.
13. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL.
14. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH RAIN EVENT RESULTING IN RUNOFF FROM THE SITE.
15. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
16. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF MATERIALS NECESSARY FOR THE CONSTRUCTION OF COFFERDAMS. ALL MATERIALS FOR COFFERDAMS MUST BE NON-ERODABLE. THE COFFERDAMS MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. ONCE THE COFFERDAMS ARE IN PLACE AND ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.

17. IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE (ROCK CHECK DAM, PLYWOOD, SHEET PILE, ETC.) PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
18. DEWATERING MEASURES SHALL COMPLY WITH THE ILLINOIS URBAN MANUAL. DURING DEWATERING OF THE COFFERED AREA, THE WATER SHALL BE FILTERED TO REMOVE SEDIMENT PRIOR TO DISCHARGE TO THE STREAM. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. FILTRATION AREA SHALL BE PLACED ON A STABILIZED AREA OR DISCHARGE TO AN ENERGY DISSIPATING SURFACE PRIOR TO BEING RE-INTRODUCED TO DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THE DISCHARGE FROM THE DEWATERING DEVICE SHALL NOT CAUSE EROSION. ANY TREATMENT REQUIRED BY THE LAKE COUNTY SMC IS THE CONTRACTORS RESPONSIBILITY AND NO EXTRA COSTS WILL BE PAID.
19. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE MCHENRY-LAKE COUNTY SWCD.
20. EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS, THE SIDE SLOPES MUST BE RESEDED AND STABILIZED IMMEDIATELY AFTER FINAL GRADING WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE CHANNEL MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.
21. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

22. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
23. CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
24. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
25. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
26. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE OWNER OR APPLICABLE REGULATORY AGENCY.
27. FINAL ACCEPTANCE OF PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.
28. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS, PERMITS, AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
29. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF LAKE COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
30. THIS PROJECT REQUIRES ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE VILLAGE, AS A CONDITION OF THIS PERMIT. THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE VILLAGE AND LAKE COUNTY SMC FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

MAINTENANCE SCHEDULE

1. SILT FENCE - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL SILT FENCE WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE SILT FENCE FUNCTIONAL AS DESIGNED.
2. EROSION BLANKET - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL EROSION BLANKET WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE EROSION BLANKET FUNCTIONAL AS DESIGNED.
3. INLET FILTERS - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL INLET FILTERS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE INLET FILTERS FUNCTIONAL AS DESIGNED.
4. THE EROSION CONTROL QUANTITIES PROVIDED IN THE PLANS ARE APPROXIMATE. THE ACTUAL NEED FOR QUANTITIES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

CONSTRUCTION SEQUENCING

1. INSTALL SEDIMENT AND EROSION CONTROL SYSTEMS.
2. COMPLETE TREE REMOVAL, CLEARING AND GRUBBING.
3. COMPLETE WATER MAIN WORK.
4. STRIP AND STOCKPILE TOPSOIL AND BEGIN MASS GRADING, TEMPORARY SEED AS REQUIRED.
5. INSTALL COFFERDAMS.
6. DEMOLISH EXISTING STRUCTURE WITHOUT IMPACT OR DEBRIS ENTERING THE EXISTING WATERWAY.
7. CONSTRUCT NEW SUBSTRUCTURE AND INSTALL RIPRAP.
8. REMOVE COFFERDAMS.
9. CONSTRUCT SUPERSTRUCTURE.
10. COMPLETE PAVEMENT REMOVAL.
11. COMPLETE ROADWAY APPROACHES, RECONSTRUCTION AND RESURFACING.
12. COMPLETE RESTORATION.
13. REMOVE EROSION CONTROL MEASURES AND RESTORE.

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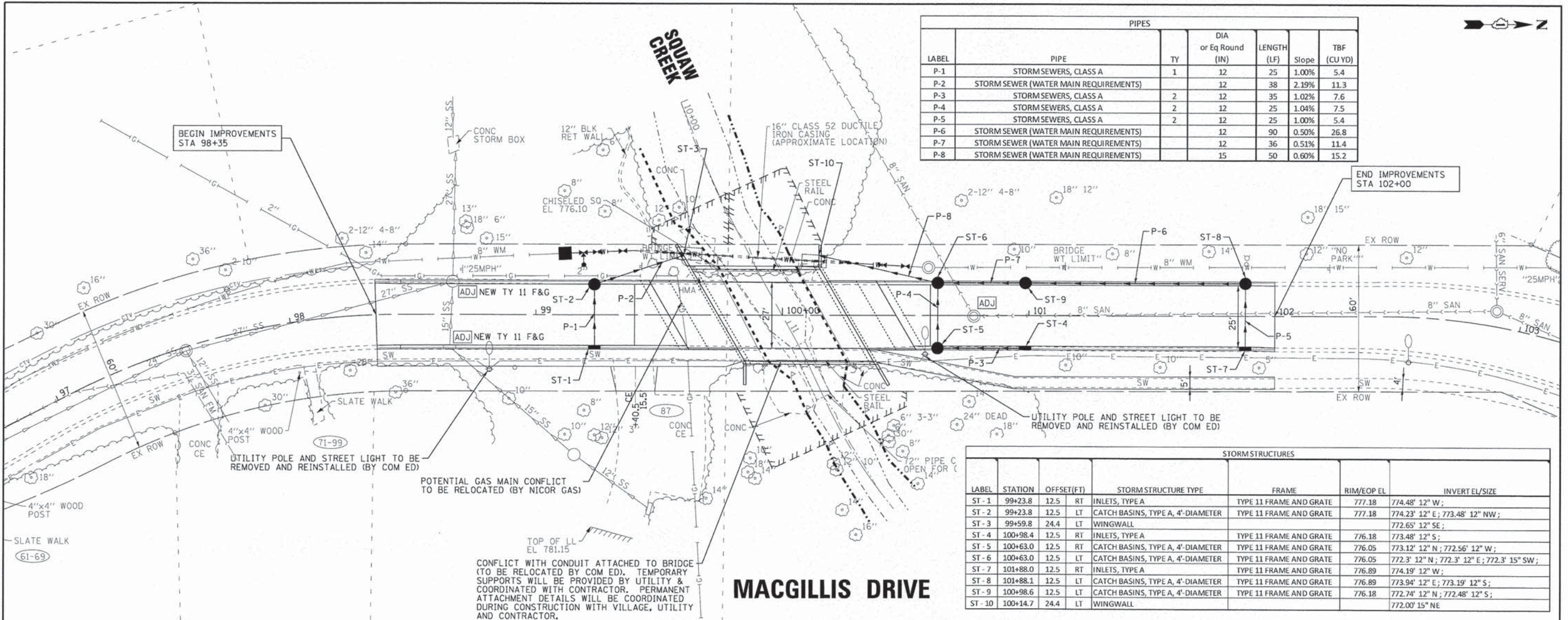
EROSION CONTROL PLAN

SCALE: 1"=20'
STA. 98+00 TO STA. 102+00

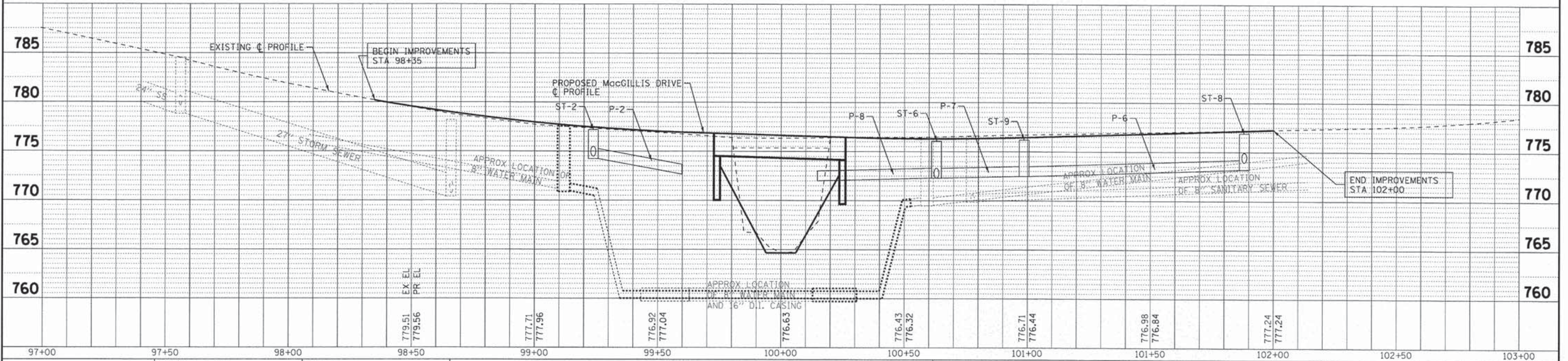
MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	16
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT BRM-90021743				



PIPES						
LABEL	PIPE	TY	DIA or Eq Round (IN)	LENGTH (LF)	Slope	TBF (CU YD)
P-1	STORM SEWERS, CLASS A	1	12	25	1.00%	5.4
P-2	STORM SEWER (WATER MAIN REQUIREMENTS)		12	38	2.19%	11.3
P-3	STORM SEWERS, CLASS A	2	12	35	1.02%	7.6
P-4	STORM SEWERS, CLASS A	2	12	25	1.04%	7.5
P-5	STORM SEWERS, CLASS A	2	12	25	1.00%	5.4
P-6	STORM SEWER (WATER MAIN REQUIREMENTS)		12	90	0.50%	26.8
P-7	STORM SEWER (WATER MAIN REQUIREMENTS)		12	36	0.51%	11.4
P-8	STORM SEWER (WATER MAIN REQUIREMENTS)		15	50	0.60%	15.2



STORM STRUCTURES						
LABEL	STATION	OFFSET (FT)	STORM STRUCTURE TYPE	FRAME	RIM/EOP EL	INVERT EL/SIZE
ST-1	99+23.8	12.5	RT INLETS, TYPE A	TYPE 11 FRAME AND GRATE	777.18	774.48' 12" W;
ST-2	99+23.8	12.5	LT CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11 FRAME AND GRATE	777.18	774.23' 12" E; 773.48' 12" NW;
ST-3	99+59.8	24.4	LT WINGWALL			772.65' 12" SE;
ST-4	100+98.4	12.5	RT INLETS, TYPE A	TYPE 11 FRAME AND GRATE	776.18	773.48' 12" S;
ST-5	100+63.0	12.5	RT CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11 FRAME AND GRATE	776.05	773.12' 12" N; 772.56' 12" W;
ST-6	100+63.0	12.5	LT CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11 FRAME AND GRATE	776.05	772.3' 12" N; 772.3' 12" E; 772.3' 15" SW;
ST-7	101+88.0	12.5	RT INLETS, TYPE A	TYPE 11 FRAME AND GRATE	776.89	774.19' 12" W;
ST-8	101+88.1	12.5	LT CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11 FRAME AND GRATE	776.89	773.94' 12" E; 773.19' 12" S;
ST-9	100+98.6	12.5	LT CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11 FRAME AND GRATE	776.18	772.74' 12" N; 772.48' 12" S;
ST-10	100+14.7	24.4	LT WINGWALL			772.00' 15" NE



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DRAWN - BCD	REVISED -
CHECKED - SLN	REVISED -
DATE - 08-07-15	FILE - 100730.DUI.sh+

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES

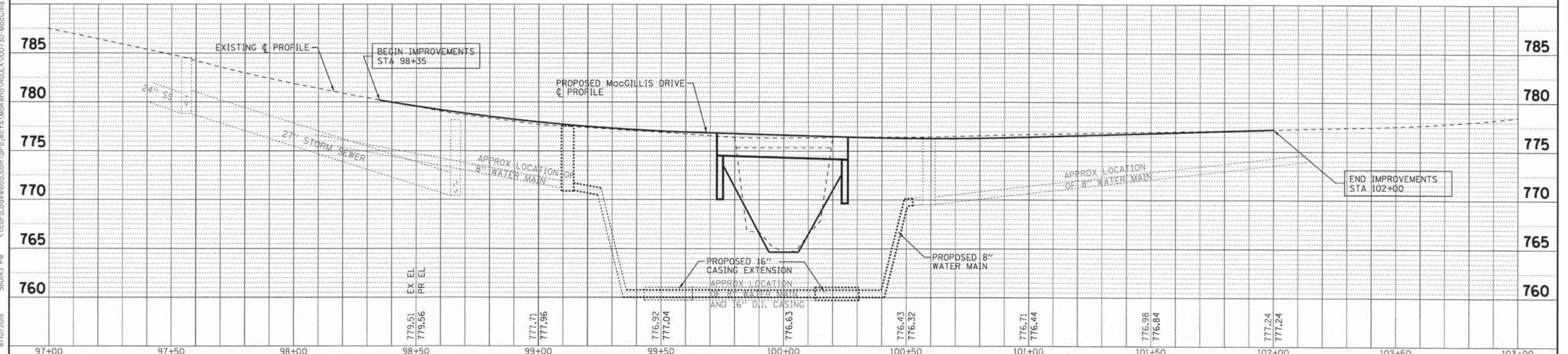
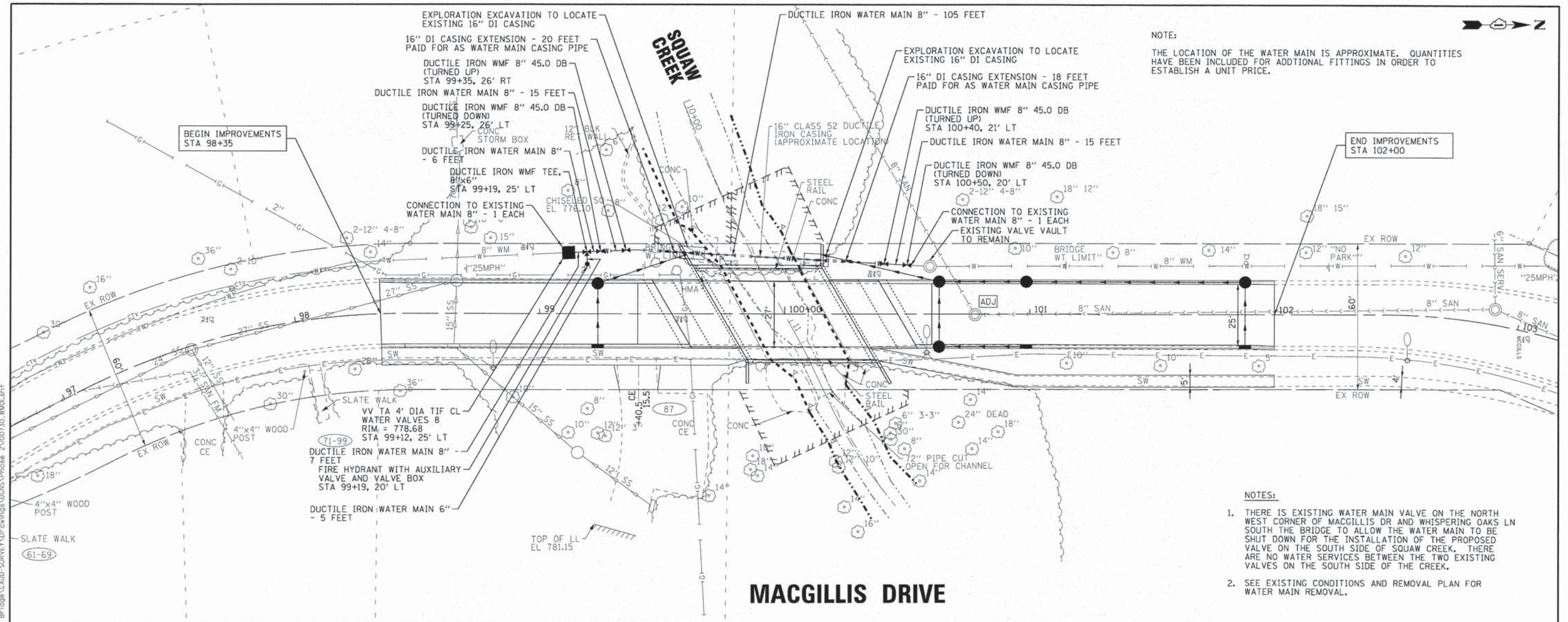
SCALE: H: 1"=20' V: 1"=5'
STA. 97+00 TO STA. 103+00

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	17
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-9002(743)				

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 LICENSE NO. 388-001019-0000 EXP. 12/31/2018
 PROJECT NO. 100730-01-01-01-01-01-01-01-01-01-01
 DRAWN BY: BCD 8/10/2015 2:04:42 PM

NOTE:
THE LOCATION OF THE WATER MAIN IS APPROXIMATE. QUANTITIES HAVE BEEN INCLUDED FOR ADDITIONAL FITTINGS IN ORDER TO ESTABLISH A UNIT PRICE.

- NOTES:
1. THERE IS EXISTING WATER MAIN VALVE ON THE NORTH WEST CORNER OF MACGILLIS DR AND WHISPERING OAKS LN SOUTH THE BRIDGE TO ALLOW THE WATER MAIN TO BE SHUT DOWN FOR THE INSTALLATION OF THE PROPOSED VALVE ON THE SOUTH SIDE OF SOUAW CREEK. THERE ARE NO WATER SERVICES BETWEEN THE TWO EXISTING VALVES ON THE SOUTH SIDE OF THE CREEK.
 2. SEE EXISTING CONDITIONS AND REMOVAL PLAN FOR WATER MAIN REMOVAL.



DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - SLN	REVISED -
DATE - 08-07-15	FILE - 100730.WM01.shp

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WATER MAIN PLAN & PROFILE

SCALE: H: 1"=20' V: 1"=5'

STA. 97+00 TO STA. 103+00

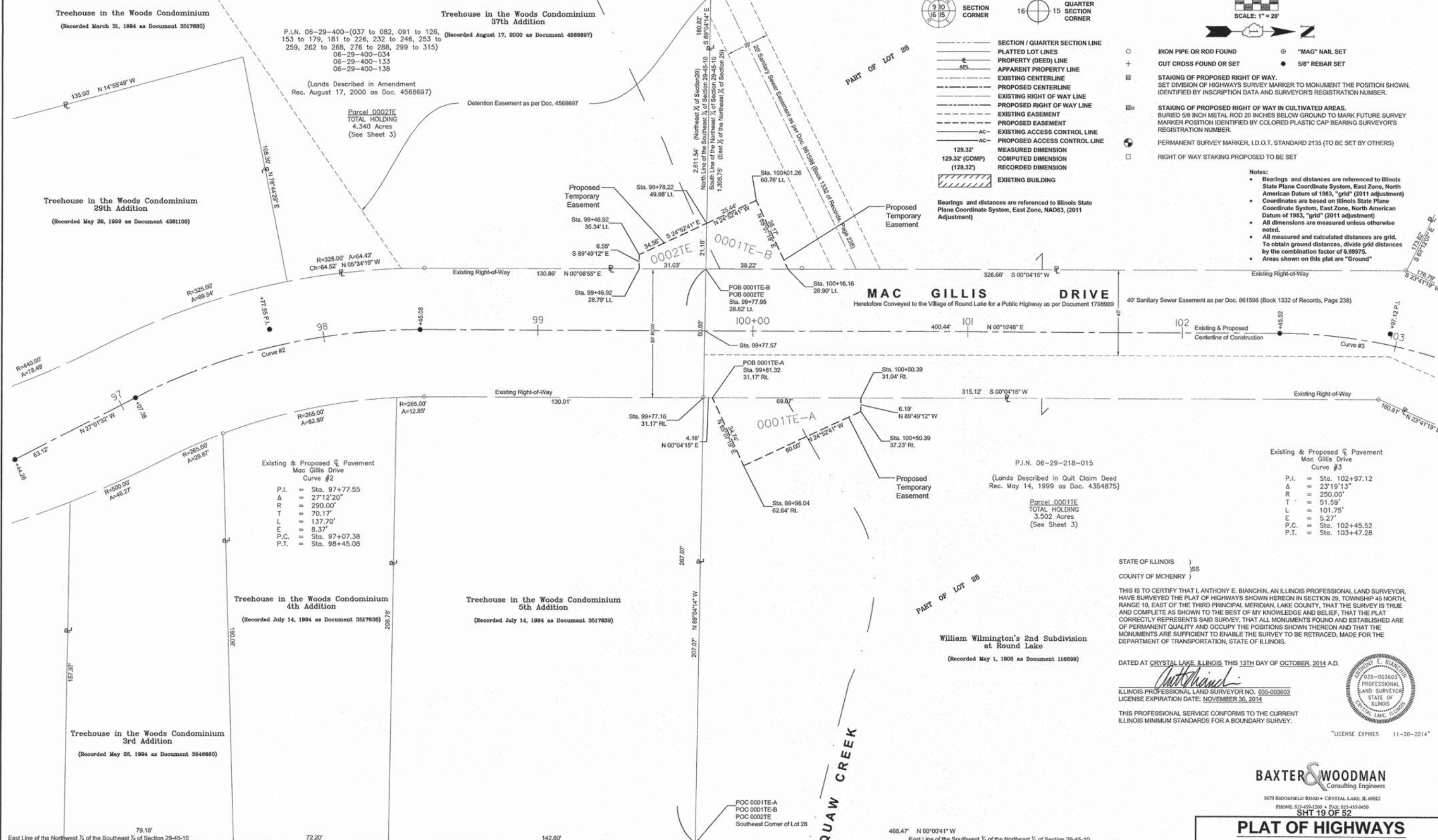
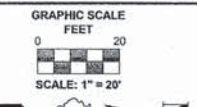
MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	18
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT BRM-9002(743)				

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 STATE OF ILLINOIS PROFESSIONAL ENGINEER
 LICENSE NO. 184-00121 EXPIRES 4/30/2015
 8/10/2015 5:02:43 PM

PART OF SECTION 29, TOWNSHIP 45 NORTH, RANGE 10, EAST OF THIRD PRINCIPAL MERIDIAN, IN LAKE COUNTY, ILLINOIS

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- 129.32' (COMP)
- 129.32' (129.32')
- RECORDED DIMENSION
- EXISTING BUILDING



East Line of the Northwest 1/4 of the Southeast 1/4 of Section 29-45-10
West Line of the Northeast 1/4 of the Southeast 1/4 of Section 29-45-10

PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0001TE-A	3.502	N/A	N/A	N/A	0.029	1,256	06-29-218-015
0001TE-B	3.502	N/A	N/A	N/A	0.020	852	06-29-218-015
0002TE	4.340	N/A	N/A	N/A	0.010	431	

North Line of the Southeast 1/4 of Section 29-45-10
South Line of the Northeast 1/4 of the Southeast 1/4 of Section 29-45-10
06-29-400-(037 to 082, 091 to 126, 153 to 179, 181 to 226, 232 to 246, 253 to 259, 262 to 268, 276 to 288, 299 to 315)
06-29-400-034
06-29-400-133
06-29-400-138

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET
- "MAG" NAIL SET
- 5/8" REBAR SET

Notes:
• Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
• Coordinates are based on Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
• All dimensions are measured unless otherwise noted.
• All measured and calculated distances are grid. To obtain ground distances, divide grid distances by the combination factor of 0.99975.
• Areas shown on this plat are "Ground"

Existing & Proposed Pavement Mac Gillis Drive Curve #2
P.I. = Sta. 97+77.55
Δ = 27°12'20"
R = 290.00'
T = 70.17'
L = 137.70'
E = 8.37'
P.C. = Sta. 97+07.38
P.T. = Sta. 98+45.08

P.I.N. 06-29-218-015
(Lands Described in Quit Claim Deed Rec. May 14, 1999 as Doc. 4354875)
Parcel 0001TE TOTAL HOLDING 3.502 Acres (See Sheet 3)

Existing & Proposed Pavement Mac Gillis Drive Curve #3
P.I. = Sta. 102+97.12
Δ = 23°19'13"
R = 250.00'
T = 51.59'
L = 101.75'
E = 5.27'
P.C. = Sta. 102+45.52
P.T. = Sta. 103+47.28

STATE OF ILLINOIS)
COUNTY OF MCHENRY)

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHINI, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 29, TOWNSHIP 45 NORTH, 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 CRYSTAL LAKE, ILLINOIS THIS 13TH DAY OF OCTOBER, 2014 A.D.

Anthony E. Bianchini
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014



THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

"LICENSE EXPIRES 11-30-2014"

BAXTER & WOODMAN
Consulting Engineers

8078 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012
PHONE: 815-455-1200 • FAX: 815-455-0450
SHT 19 OF 52

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MAC GILLIS DRIVE
LIMITS: AT SQUAW CREEK COUNTY: LAKE
SECTION: 11-00034-00-BR JOB NO.: R-91-003-14
STA. 97+00.00 TO STA. 103+00.00
SCALE: 1" = 20' SHEET 19 OF 52 SHEETS
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY

REVISION DATE: 10-13-2014 REVISION MADE BY: AEB

I:\WORK\BOLUKA\100730-MACGILLIS_BRIDGES\DRAWINGS\DWGS\100730_PLATS.DWG Sheet 2
 Plotted: 10/13/2014 10:14:48 AM By: 3546EB
 State of Illinois - Professional Design Firm, Inc.
 License No. 184-001121 - Expires 4-30-13

61893

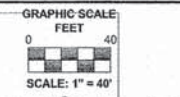
PART OF SECTION 29, TOWNSHIP 45 NORTH, RANGE 10, EAST OF THIRD PRINCIPAL MERIDIAN, IN LAKE COUNTY, ILLINOIS

Station / Description	Northing	Eastng
94+00.00 Project Beginning	2,069,613.56	1,050,547.67
95+25.60 P.C. Curve #1	2,069,739.16	1,050,548.05
95+86.07 P.I. Curve #1	2,069,799.63	1,050,548.23
96+44.26 P.T. Curve #1	2,069,853.50	1,050,520.75
97+07.38 P.C. Curve #2	2,069,909.72	1,050,492.07
97+77.55 P.I. Curve #2	2,069,972.23	1,050,460.19
98+45.08 P.T. Curve #2	2,070,042.41	1,050,460.41
102+45.52 P.C. Curve #3	2,070,442.85	1,050,461.67
102+97.12 P.I. Curve #3	2,070,494.44	1,050,461.83
103+47.28 P.T. Curve #3	2,070,541.75	1,050,482.40
105+00.09 Project End	2,070,681.89	1,050,543.33

LEGEND

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- 129.32' (COMP)
- 129.32' (RECORDED DIMENSION)
- EXISTING BUILDING

Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, NAD83, (2011 Adjustment)



- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
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- "MAG" NAIL SET
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Notes:

- Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
- Coordinates are based on Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
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- Areas shown on this plat are "Ground"

STATE OF ILLINOIS)
COUNTY OF MC HENRY)

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHINI, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 29, TOWNSHIP 45 NORTH, 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.

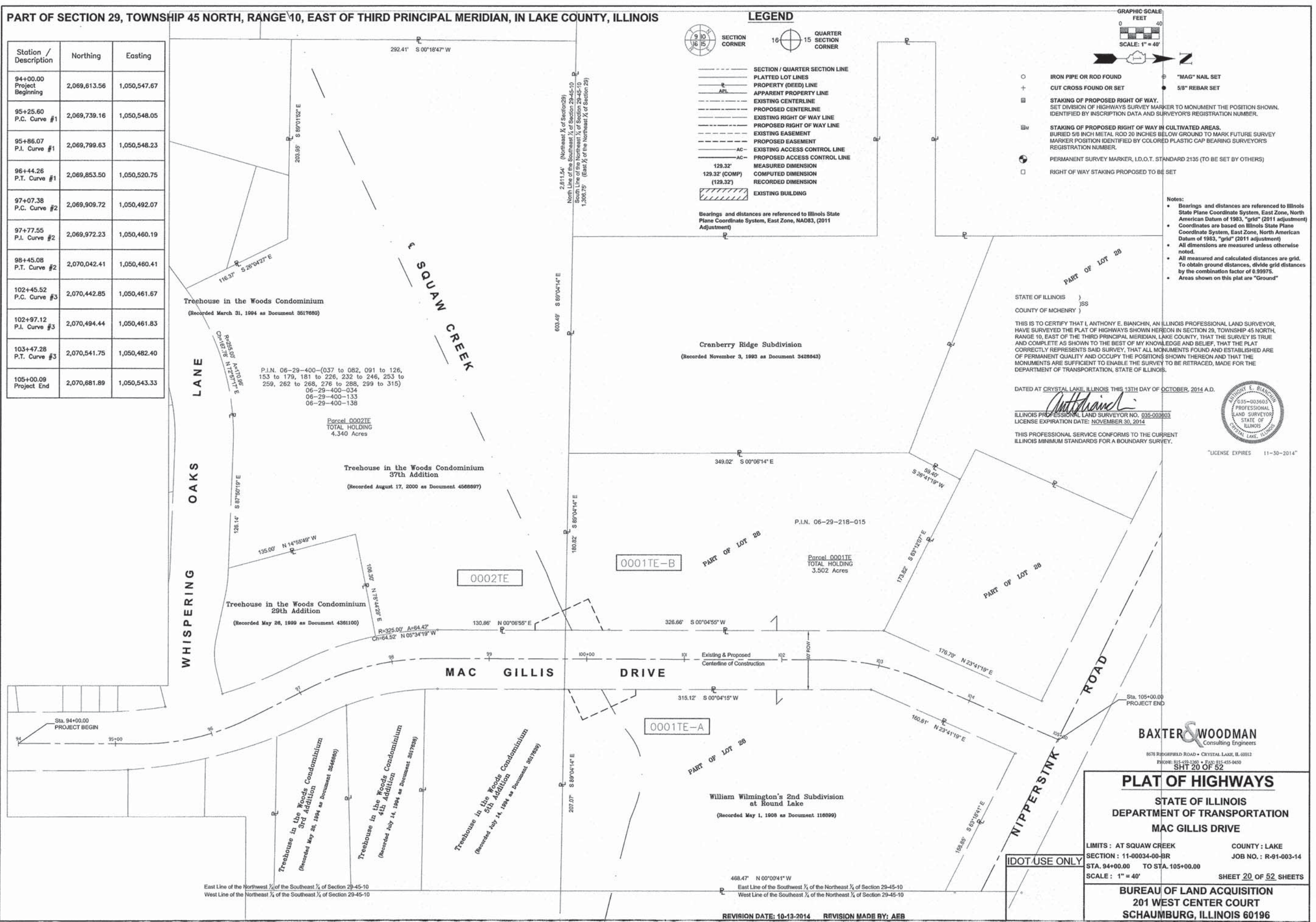
DATED AT CRYSTAL LAKE, ILLINOIS THIS 13TH DAY OF OCTOBER, 2014 A.D.

Anthony E. Bianchini
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003903
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014



THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

"LICENSE EXPIRES 11-30-2014"



BAXTER & WOODMAN
Consulting Engineers
8675 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012
PHONE: 815-402-1200 • FAX: 815-455-0450
SHT 20 OF 52

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MAC GILLIS DRIVE

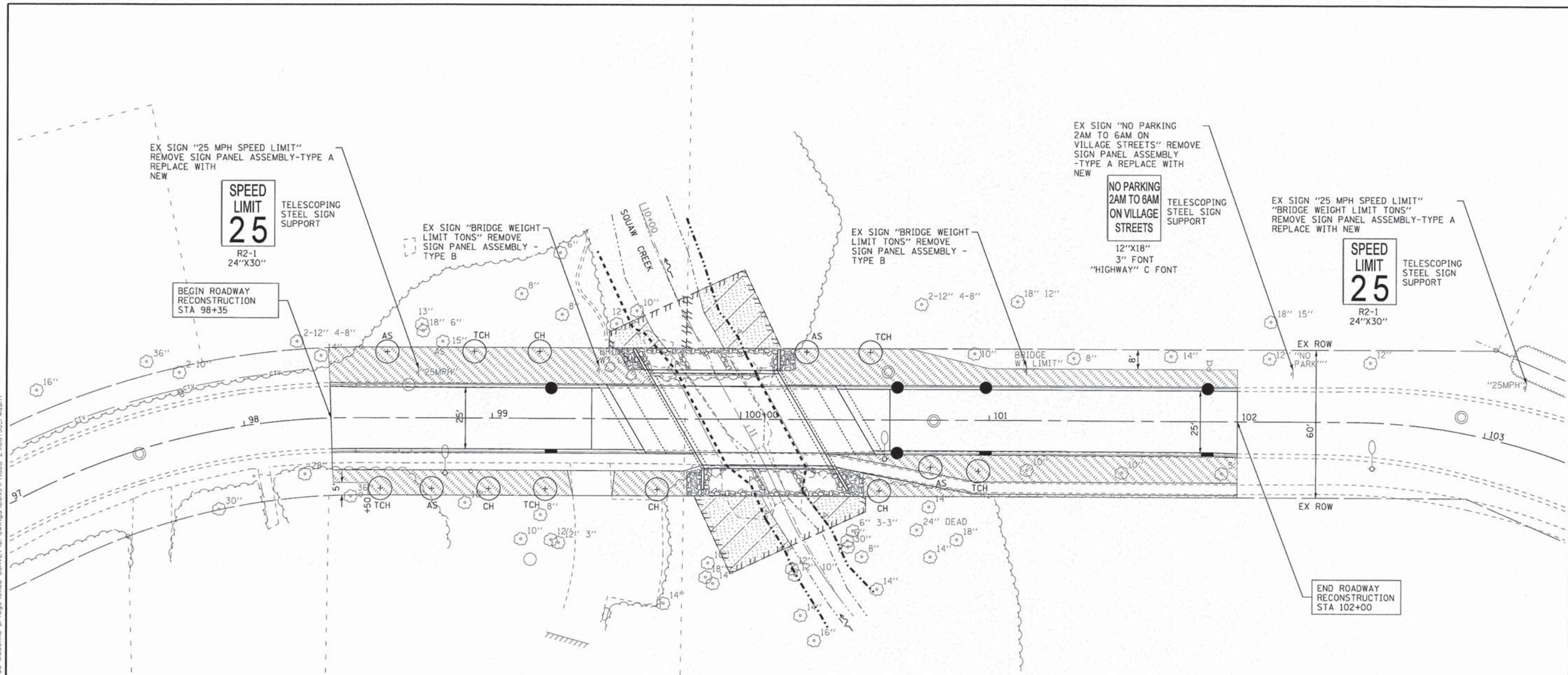
LIMITS : AT SQUAW CREEK COUNTY : LAKE
SECTION : 11-00034-00-BR JOB NO. : R-91-003-14
STA. 94+00.00 TO STA. 105+00.00
SCALE : 1" = 40' SHEET 20 OF 52 SHEETS

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

I:\MOKENA\ROULKA\100730-MACGILLIS BRIDGE\CADD-SURVEY\DRAWINGS\DWGS\100730-PLATS.DWG Sheet 3
Plotted: 9/10/2014 @ 3:29 PM By: 5544EB
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State of Illinois Professional Design Firm
Survey No. 184-0311E1 - Expires 4-30-13

REVISION DATE: 10-13-2014 REVISION MADE BY: AEB

61893



MACGILLIS DRIVE



LEGEND

- TOPSOIL FURNISH AND PLACE, 6" SODDING, SALT TOLERANT
- TOPSOIL FURNISH AND PLACE, 6" SEEDING, CLASS 4A HEAVY DUTY EROSION CONTROL BLANKET
- PROPOSED TREES
- FRINGE WETLAND
- ORDINARY HIGH WATER MARK

TREE SCHEDULE

NOTE: THE LOCATION OF THE PROPOSED TREES ARE APPROXIMATE. FINAL TREE LOCATION SHALL BE DETERMINED AND APPROVED IN THE FIELD BY THE VILLAGE FORESTER AND THE ENGINEER.

A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	CH	EACH	4
A2005316	TREE, LIQUIDAMBAR STRACIFLUA (AMERICAN SWEET GUM), 2" CALIPER, BALLED AND BURLAPPED	AS	EACH	4
B2001616	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 2" CALIPER, BALLED AND BURLAPPED	TCH	EACH	5

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2015
 566bcd 8/10/2015



DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08-07-15	FILE - 100730.PMI.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING AND LANDSCAPING PLAN

SCALE: 1"=20'

STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	21
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002(743)			CONTRACT NO. 61B93	

Benchmark: South Bolt on Fire Hydrant, Sta. 99+28, 21' Lt. Elev. 776.94

Existing Structure: S.N 049-7700 was built in 1974. The structure is a single-span reinforced concrete channel beam/slab system, 37' out to out width and 36' back to back of abutments. Includes two 5' wide sidewalks and steel pipe handrails. Cast in place concrete closed abutments with concrete shaft foundations. Existing structure to be removed and replaced with a single-span PPC Deck Beam structure. Traffic to be detoured during construction.

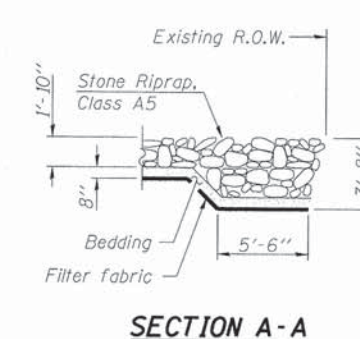
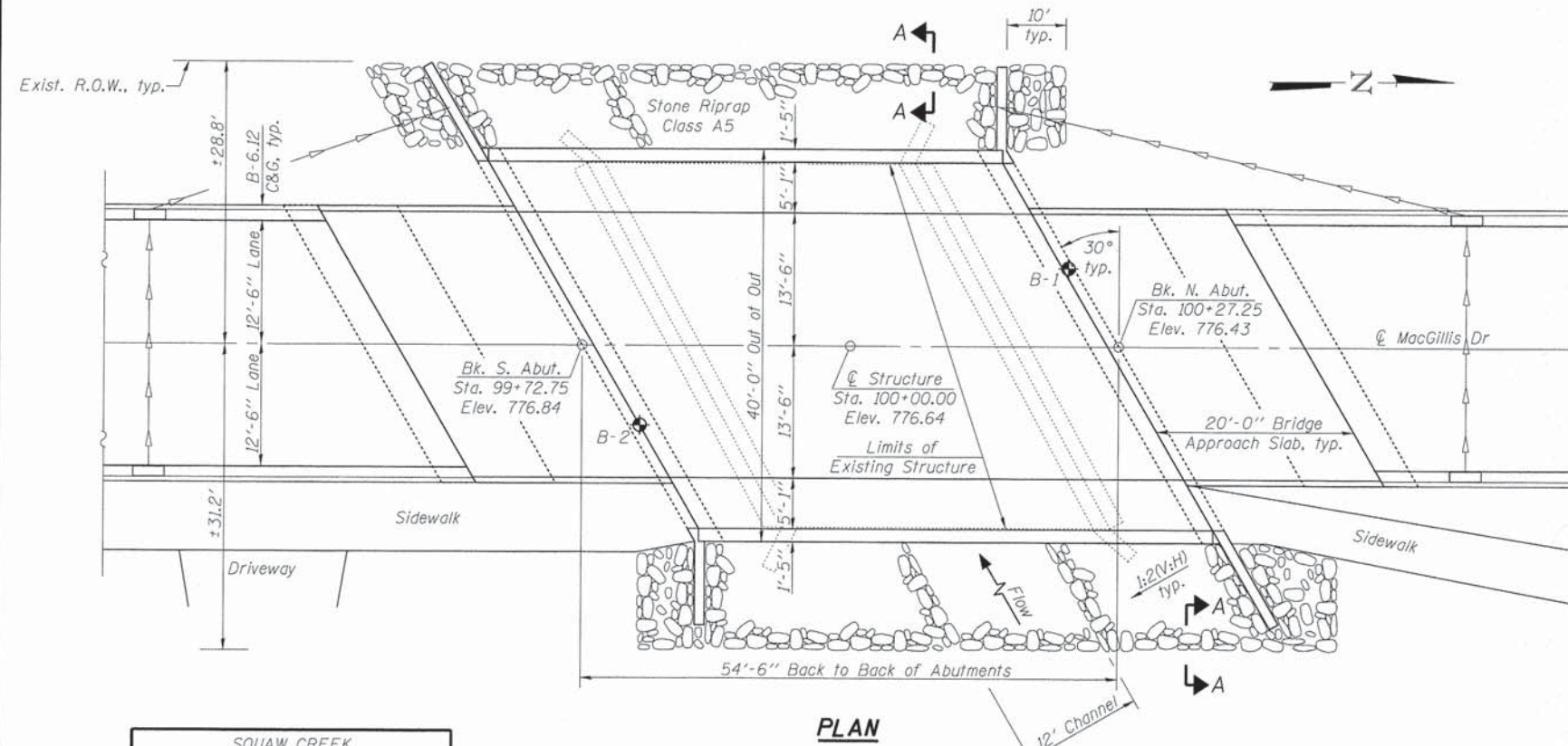
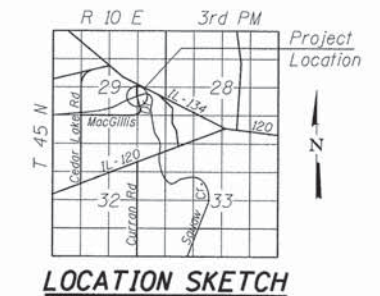
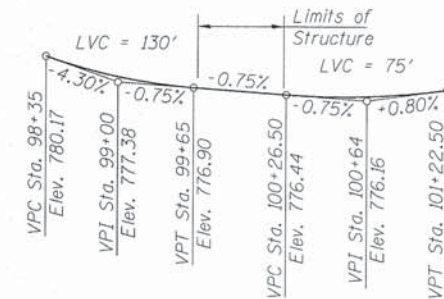
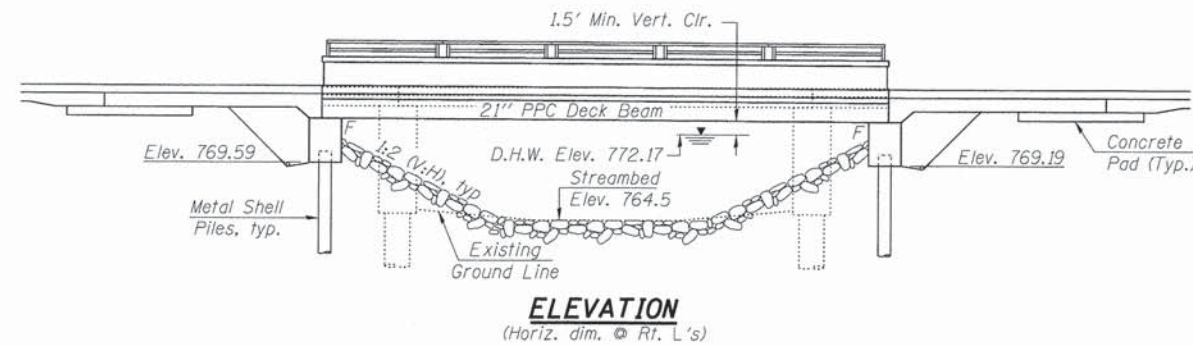
No Salvage.

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	769.59	769.19	8
Q200	769.59	769.19	
Design	769.59	769.19	
Check	769.59	769.19	

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater EL.	
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.
Drainage Area = 15 Sq. Mi. Low Grade Elev. 776.33 @ Sta. 100+22 (Existing) 10-Year Velocity = 6.8 ft/sec 776.17 @ Sta. 100+76 (Proposed)								
Design	30	795	202.5	209.6	772.17	0.30	0.10	772.47
Base	100	1060	231.5	255.8	773.27	0.40	0.10	773.67
Overtopping	>100	-	-	-	-	-	-	-



DESIGN SPECIFICATIONS
AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

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

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" dia. low lax strands)
fpb = 201,960 psi (1/2" dia. low lax strands)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.127g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.255g
Soil Site Class = E

SQUAW CREEK
BUILT 20__ BY
VILLAGE OF ROUND LAKE
LAKE COUNTY
SEC. 11-00034-00-BR
STA. 100+00
STR. NO. 049-7701 LOADING HL-93

NAME PLATE
See Std. 515001



DATE: 8/10/2015
LICENSE EXPIRES 11/30/16

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LRFD Bridge Design Specifications.

GENERAL PLAN
MACGILLIS DRIVE OVER SQUAW CREEK
SEC. 11-00034-00-BR
LAKE COUNTY
STATION 100+00.00
STRUCTURE NO. 049-7701

BAXTER & WOODMAN Consulting Engineers	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN STRUCTURE NO. 049-7701 SHEET NO. 1 OF 14 SHEETS	MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -			1013	11-00034-00-BR	LAKE	52	22
	PLOT DATE =	DRAWN -	REVISED -			CONTRACT NO. 61B93				
		CHECKED -	REVISED -			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-9002(743)				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

The Contractor is advised that the existing structure contains members that are in deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for removal.

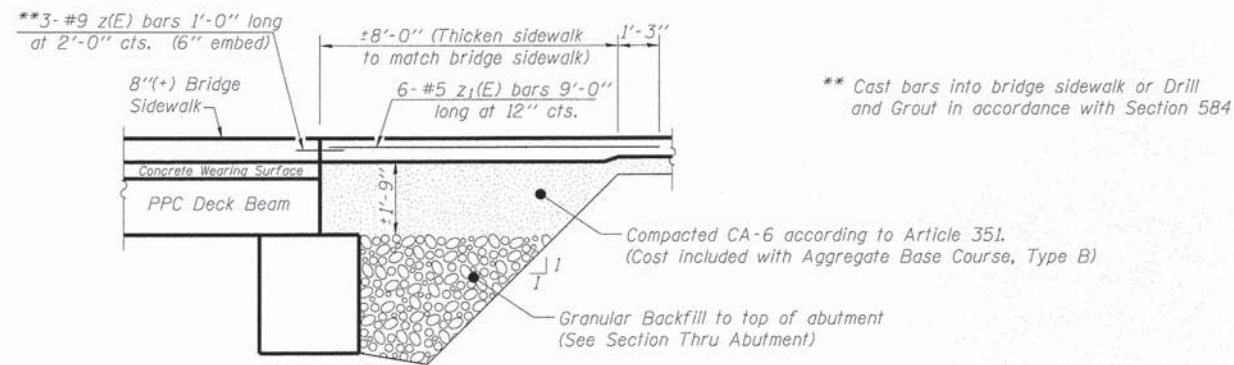
Existing ComEd cable attached to underside of structure to be relocated and temporarily supported during construction, and re-installed on east fascia of proposed structure. Abutment wingwall penetration details to be coordinated with ComEd during construction. See Roadway Plans for additional information.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		368	368
Filter Fabric	Sq. Yd.		368	368
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		336	336
Concrete Structures	Cu. Yd.		71.6	71.6
Concrete Superstructure	Cu. Yd.	92.4		92.4
Bridge Deck Grooving	Sq. Yd.		256	256
Protective Coat	Sq. Yd.		412	412
Reinforcement Bars, Epoxy Coated	Pound	19570	12620	32190
Furnishing Metal Shell Piles 14" x 0.312"	Foot		928	928
Driving Piles	Foot		928	928
Test Pile Metal Shells	Each		2	2
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq. Yd.		67	67
Pipe Underdrains for Structures 4"	Foot		168	168
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2088		2088
Concrete Wearing Surface, 5"	Sq. Yd.		232	232
Granular Backfill for Structures	Cu. Yd.		124	124
Form Liner Textured Surface	Sq. Ft.		210	210
Concrete Surface Color Treatment	Sq. Ft.		210	210
Rubbed Finish	Sq. Ft.		200	200
Parapet Rolling	Foot		102	102

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 21" x 48" PPC Deck Beam
- 4 21" x 48" PPC Deck Beam Details
- 5 Superstructure
- 6 Superstructure Details I
- 7 Superstructure Details II
- 8-9 Bridge Approach Slab Details
- 10 South Abutment
- 11 North Abutment
- 12 Metal Shell Pile Details
- 13-14 Boring Logs



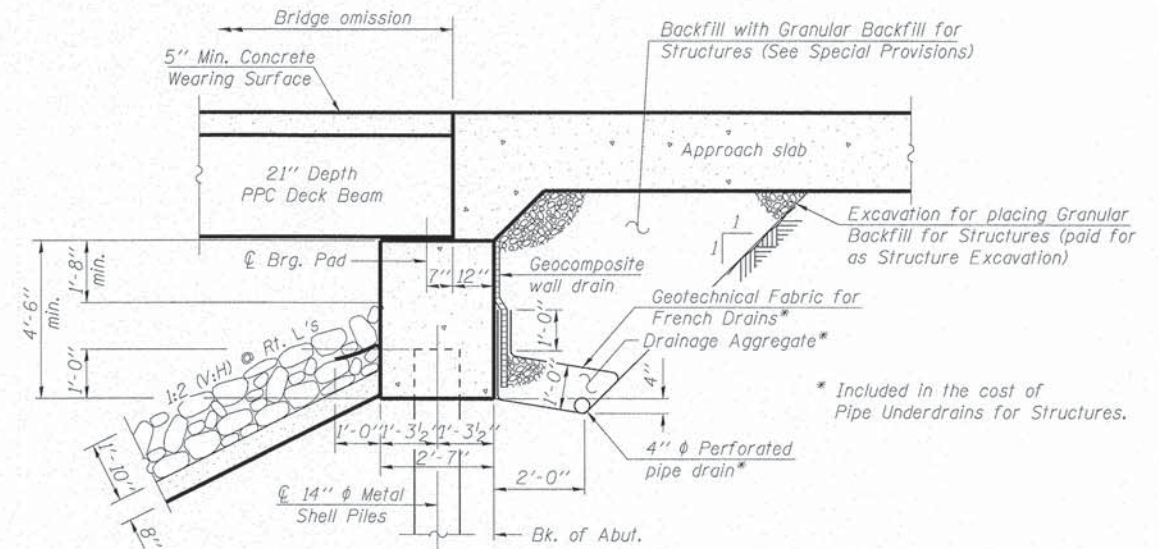
APPROACH SIDEWALK DETAIL

Typical Southeast and Northeast corners, outside limits of Approach Slabs

**APPROACH SIDEWALKS
BILL OF MATERIAL**

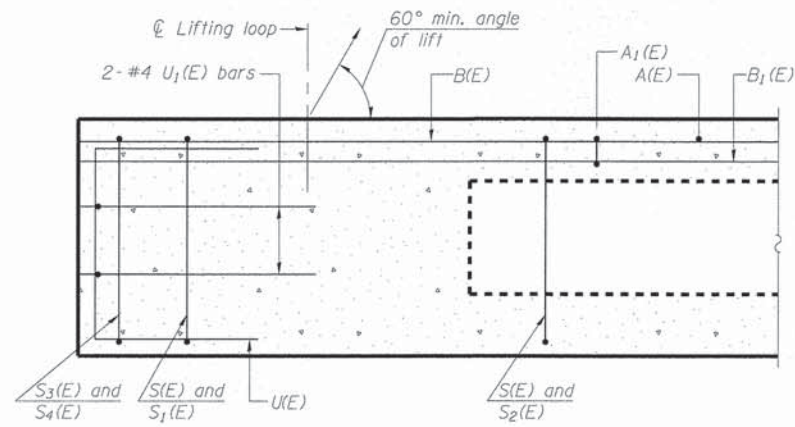
Bar	No.	Size	Length	Shape
z(E)	6	#9	1'-0"	—
z1(E)	12	#5	9'-0"	—
Reinforcement Bars, Epoxy Coated			Pound	140

See Roadway Plans for Sidewalk & Aggregate Base Course quantities.

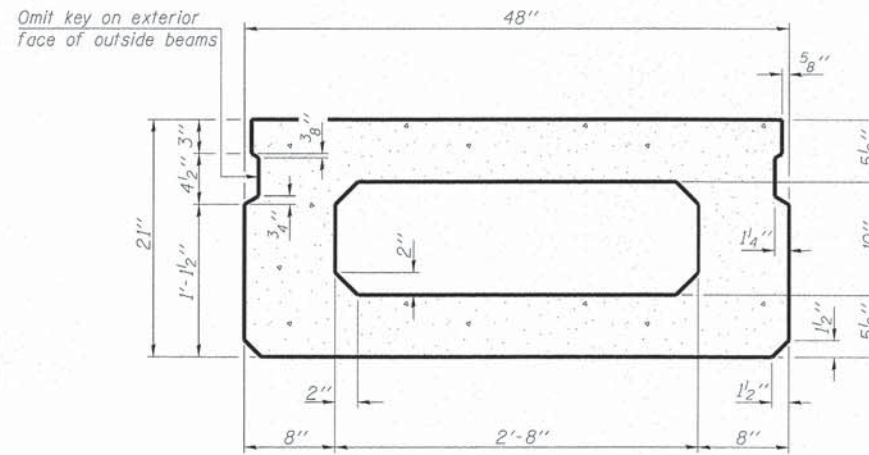


SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. L's)

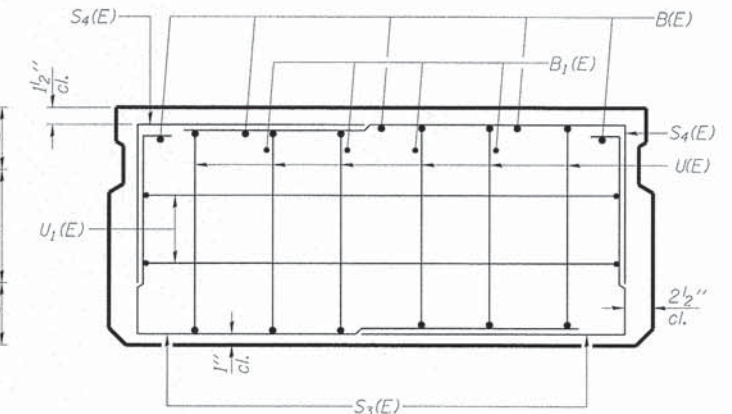
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain through concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101.)



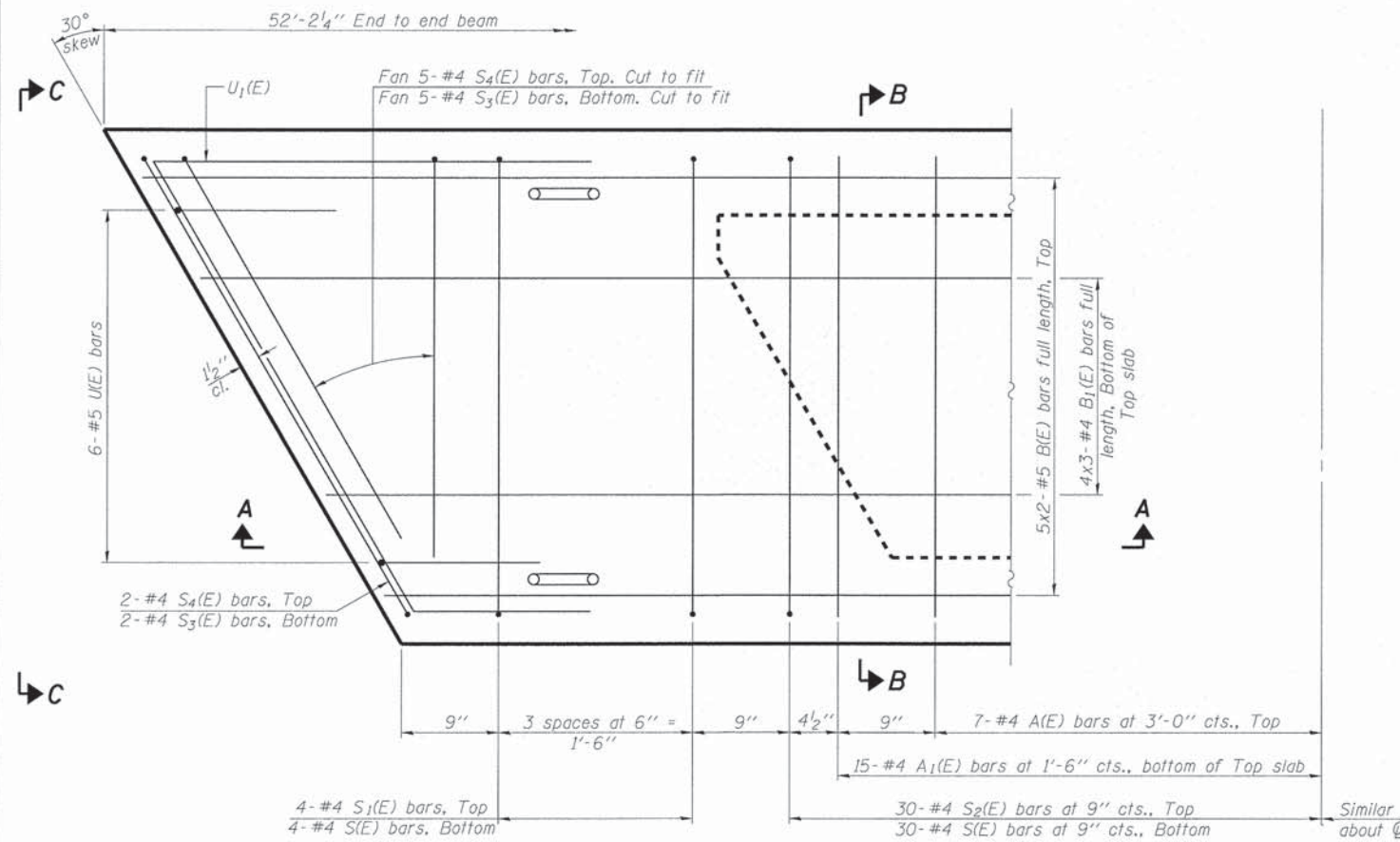
SECTION A-A



SECTION B-B
(Showing dimensions)

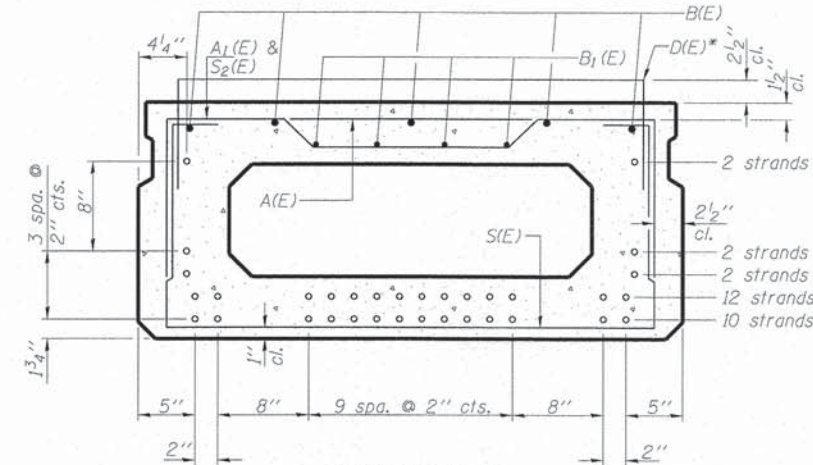


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

* D(E) bars in fascia beams only.

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	3'-7"	—
A1(E)	30	#4	3'-10"	—
B(E)	10	#5	27'-3"	—
B1(E)	12	#4	18'-8"	—
D(E)	66	#4	5'-7"	⌈
S(E)	68	#4	7'-5"	⌈
S1(E)	8	#4	5'-11"	⌈
S2(E)	60	#4	6'-2"	⌈
S3(E)	14	#4	5'-1"	⌈
S4(E)	14	#4	4'-4"	⌈
U(E)	12	#5	4'-0"	⌈
U1(E)	4	#4	8'-6"	⌈

Note: See sheet 4 of 14 for additional details and Bill of Material.

MINIMUM BAR LAP

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

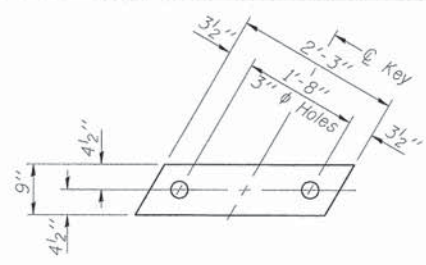
USER NAME *	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE *	DRAWN -	REVISED -
PLOT DATE *	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

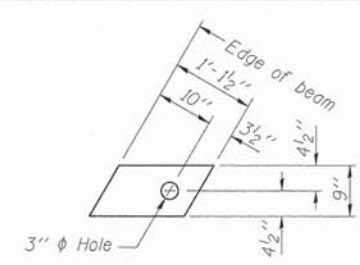
21" x 48" PPC DECK BEAM
STRUCTURE NO. 049-7701

SHEET NO. 3 OF 14 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	24
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61B93	
BRM-9002(743)				



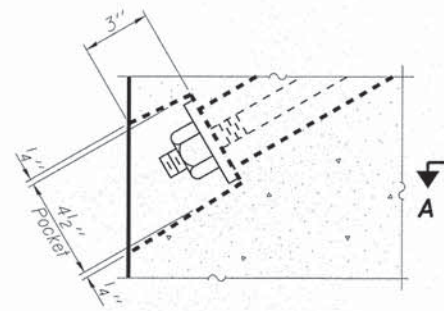
FABRIC BEARING PAD
(Interior)



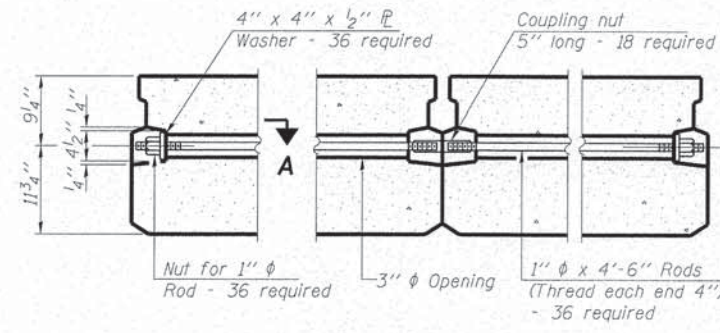
FABRIC BEARING PAD
(Exterior)

FIXED

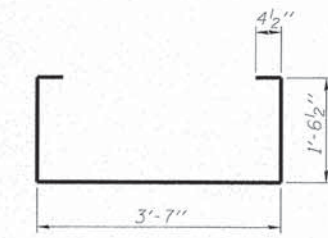
Note:
All bearing pads shall be 1" thick.



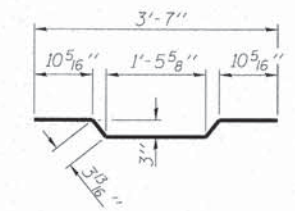
SECTION A-A



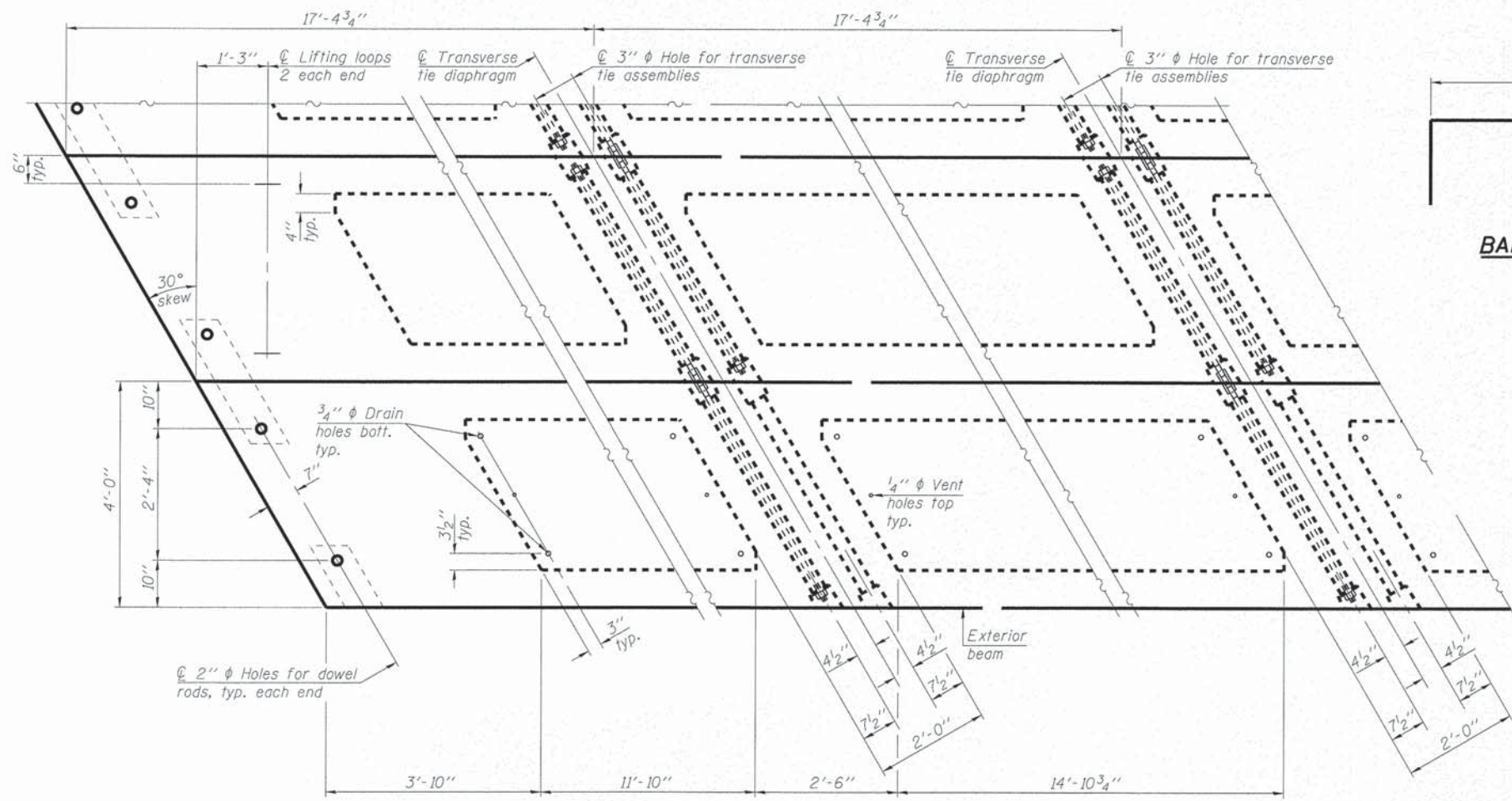
TYPICAL TRANSVERSE TIE ASSEMBLY



BAR S(E)

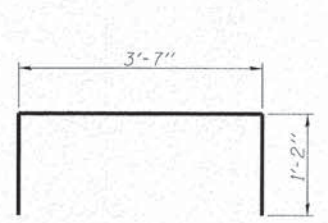


BAR A1(E)

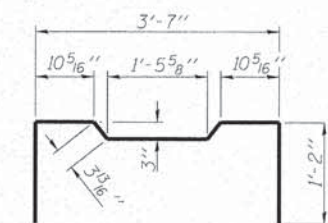


PLAN VIEW

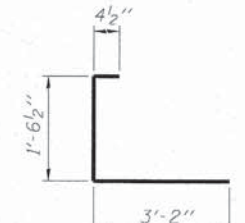
Note: Connect beams in pairs with the transverse tie configuration shown.



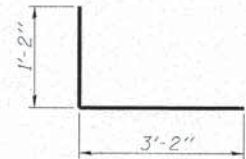
BAR S1(E)



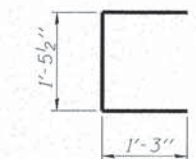
BAR S2(E)



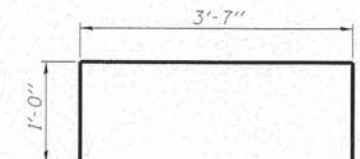
BAR S3(E)



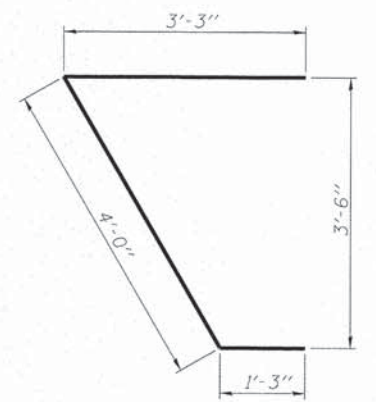
BAR S4(E)



BAR U(E)



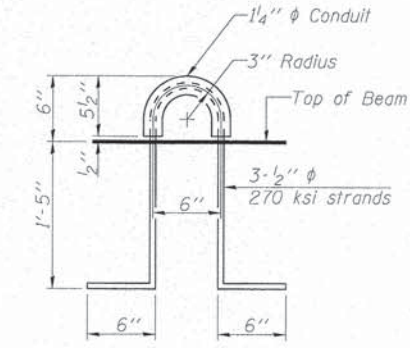
BAR D(E)
Fascia Beams Only



BAR U1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

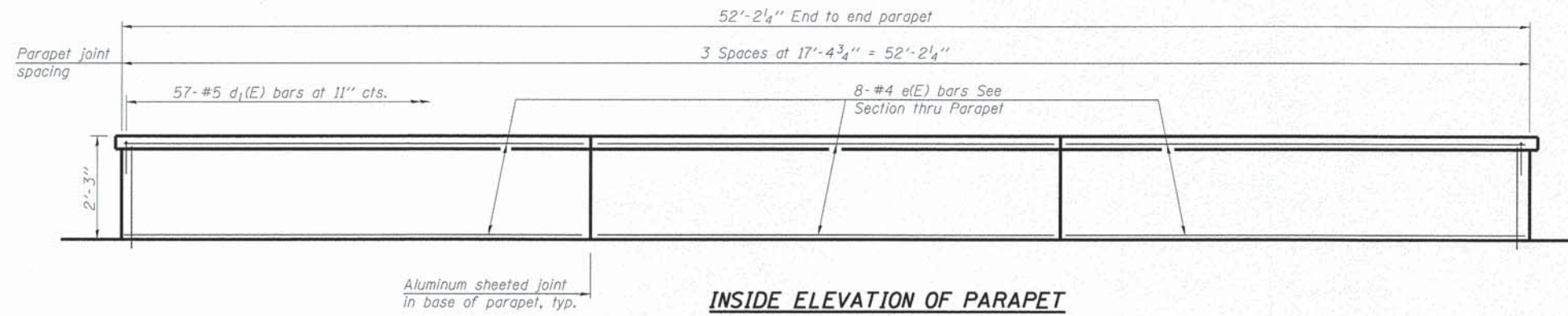


LIFTING LOOP DETAIL

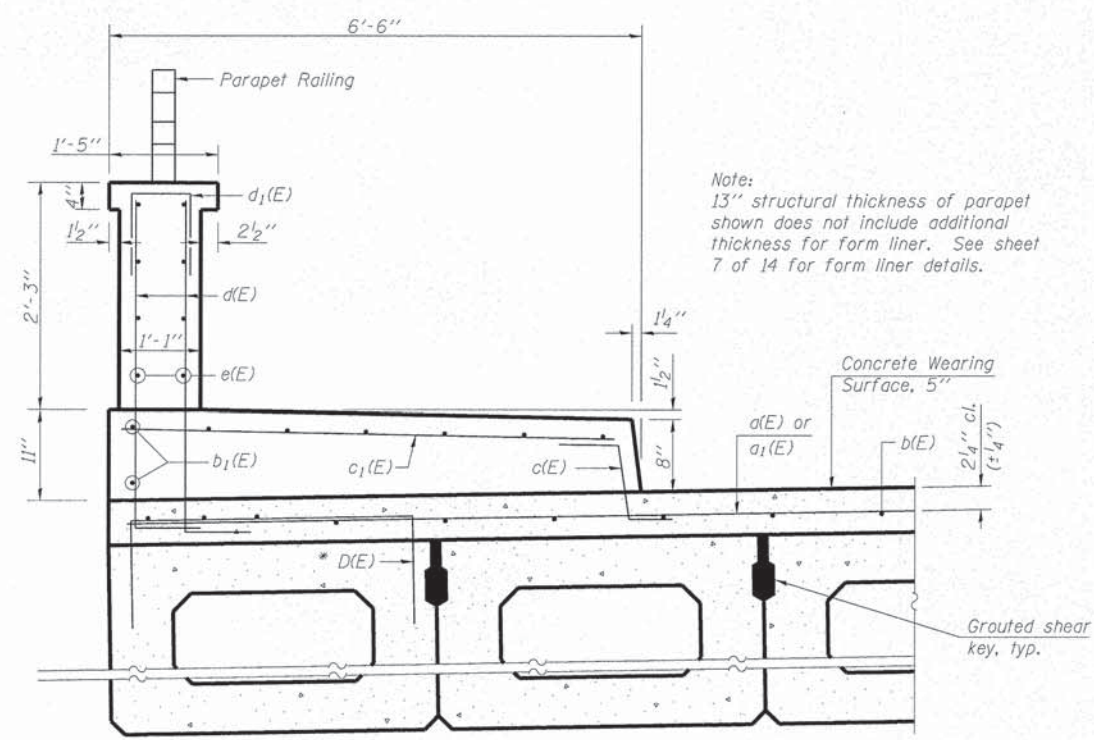
BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	2,088
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USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	21" x 48" PPC DECK BEAM DETAILS STRUCTURE NO. 049-7701	MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE =	CHECKED -	REVISD -			1013	11-00034-00-BR	LAKE	52	25	
PLOT DATE =	DRAWN -	REVISD -			CONTRACT NO. 61B93					
	CHECKED -	REVISD -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002(743)					

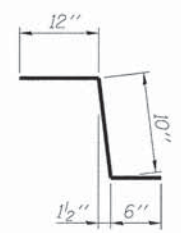


INSIDE ELEVATION OF PARAPET

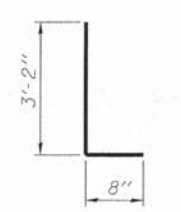


SECTION THRU PARAPET

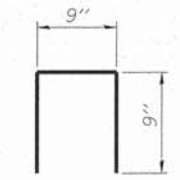
* Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.



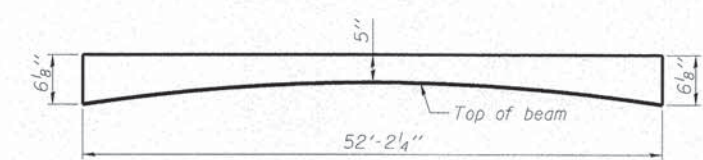
BAR c(E)



BAR d(E)



BAR d1(E)

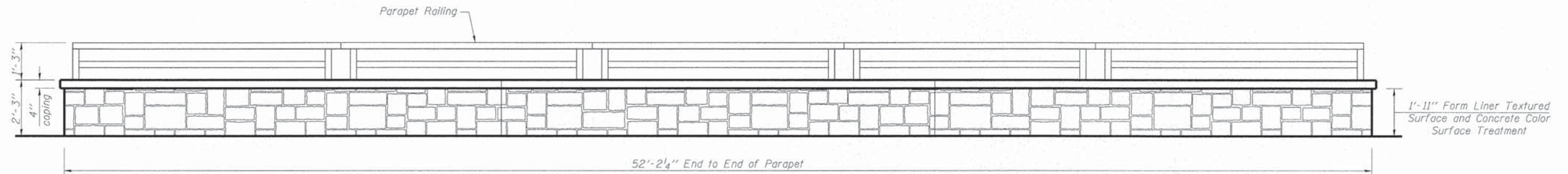


ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

**SUPERSTRUCTURE
BILL OF MATERIAL**

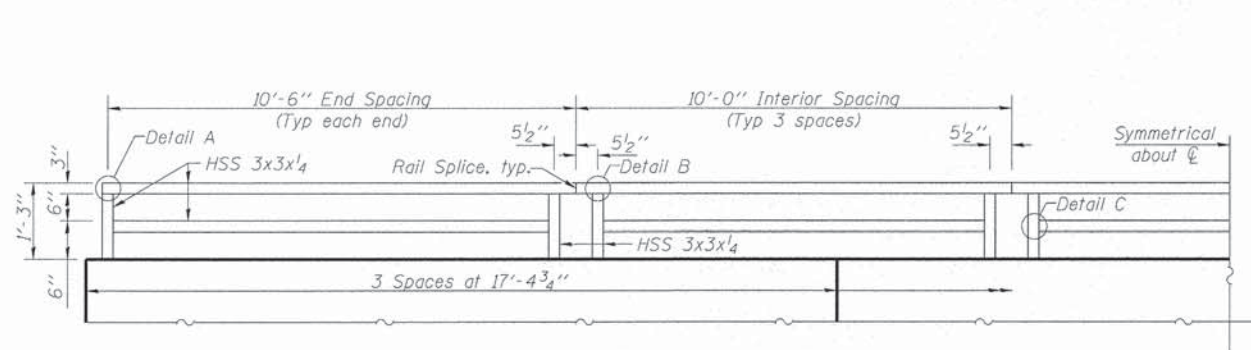
Bar	No.	Size	Length	Shape	
d(E)	106	#4	24'-3"	—	
a1(E)	104	#4	6'-0"	—	
b(E)	88	#4	27'-4"	—	
b1(E)	32	#5	27'-8"	—	
c(E)	106	#4	2'-4"	┘	
c1(E)	106	#4	7'-0"	—	
d(E)	228	#5	3'-10"	┘	
d1(E)	114	#5	2'-3"	┘	
e(E)	48	#4	17'-1"	—	
Reinforcement Bars, Epoxy Coated				Pound	7060
Concrete Superstructure				Cu. Yd.	30.6
Concrete Wearing Surface, 5"				Sq. Yd.	232

Bars indicated thus 52 x 2-#4 etc. indicates 52 lines of bars with 2 lengths per line.

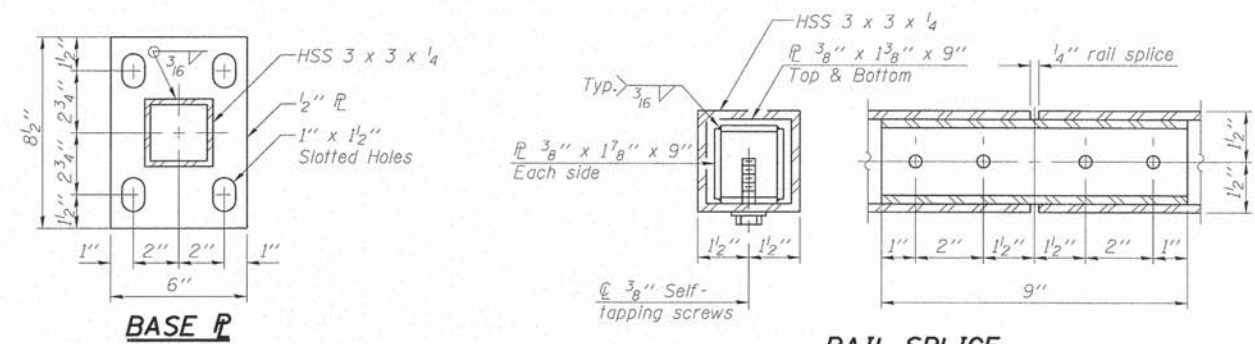


TYPICAL PARAPET ELEVATION

Form Liner and Color Treatment to be applied to traffic face and end faces of parapet. Back face to receive standard rubbed finish.

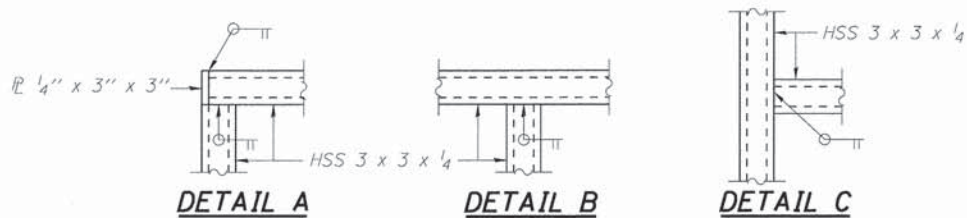


TYPICAL PARAPET RAILING ELEVATION



BASE PL

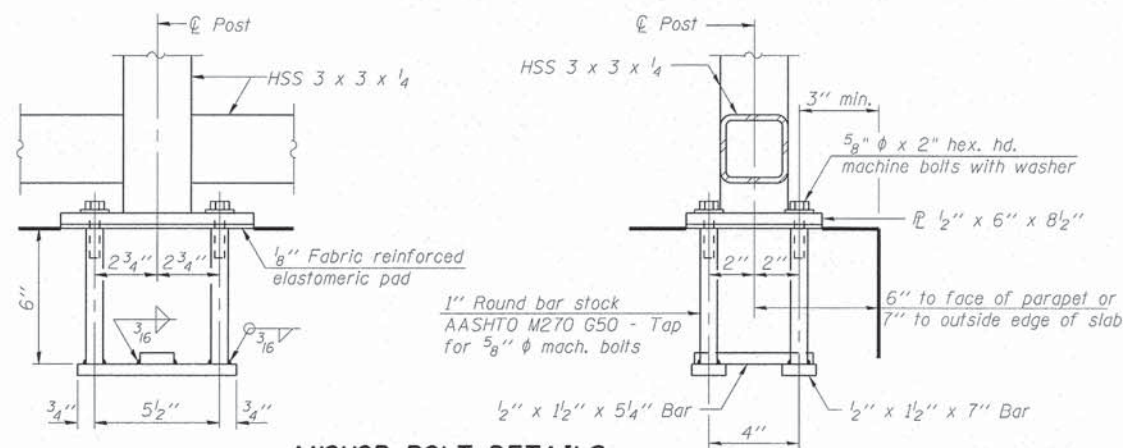
RAIL SPLICE



DETAIL A

DETAIL B

DETAIL C



ANCHOR BOLT DETAILS

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

NOTES

- Railing shall be according to the applicable portions of Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Pedestrian Railing.
- Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
- Hollow steel pipes shall conform to the requirements of ASTM A53 and shall be "standard weight".
- All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.
- All post, railing, splices, anchor devices, and bent plates shall be painted using the Organic Zinc Rich Primer / Epoxy / Urethane Paint System. The color of the final finish coat shall be matte black.
- Space reinforcement in parapets to miss anchor rods.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	102
Form Liner Textured Surface	Sq Ft	210
Concrete Color Surface Treatment	Sq Ft	210
Rubbed Finish	Sq Ft	200

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

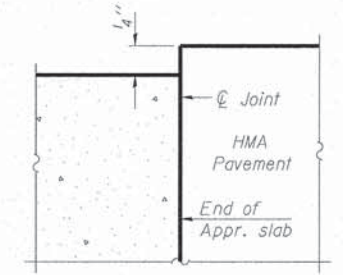
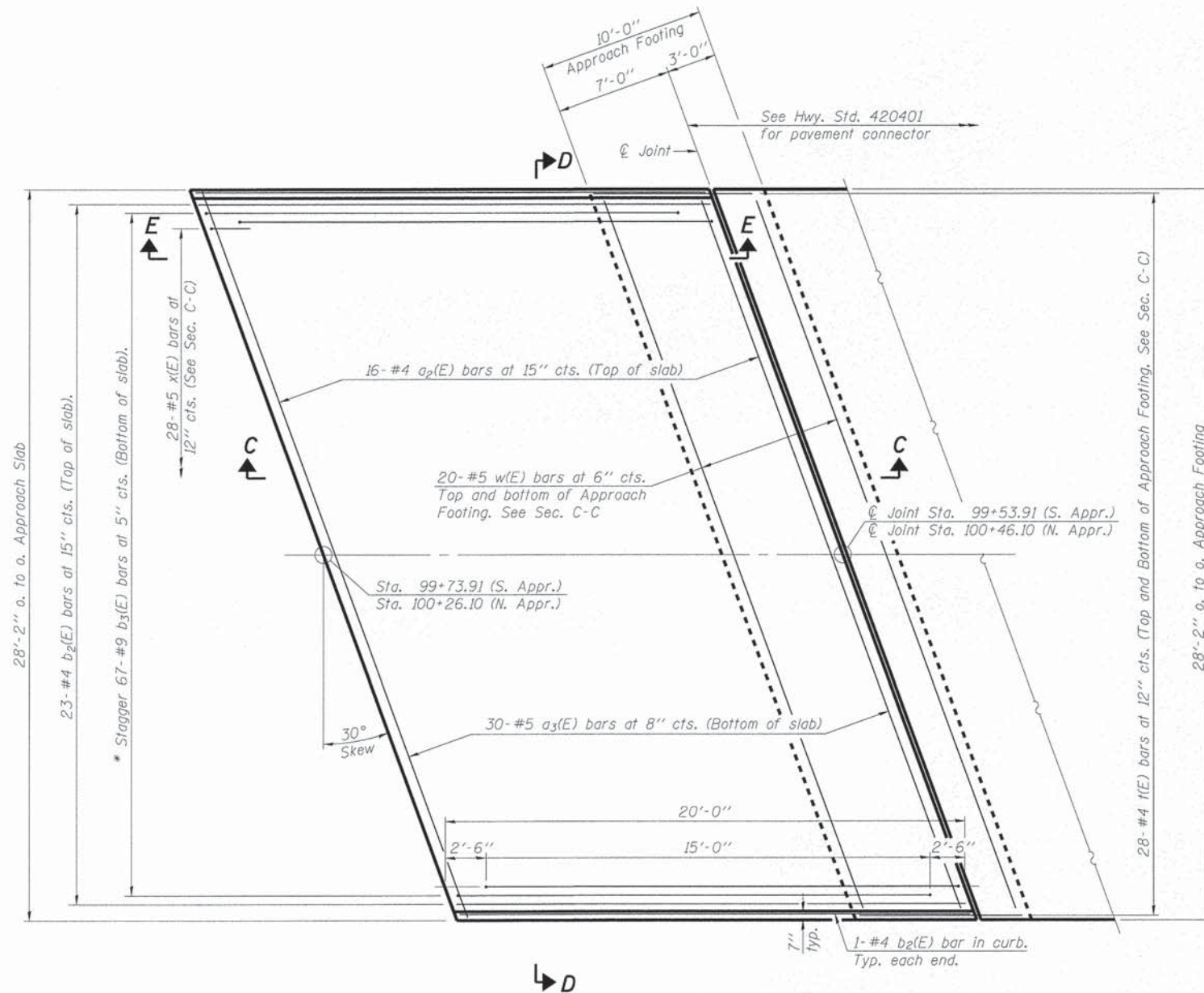
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS II
STRUCTURE NO. 049-7701

SHEET NO. 7 OF 14 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	28
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B93	
BRM-9002(743)				

Notes:
 See sheet 9 of 14 for Sections C-C & D-D.
 $a_2(E)$ and $a_3(E)$ bar spacings measured along C Rdwy.



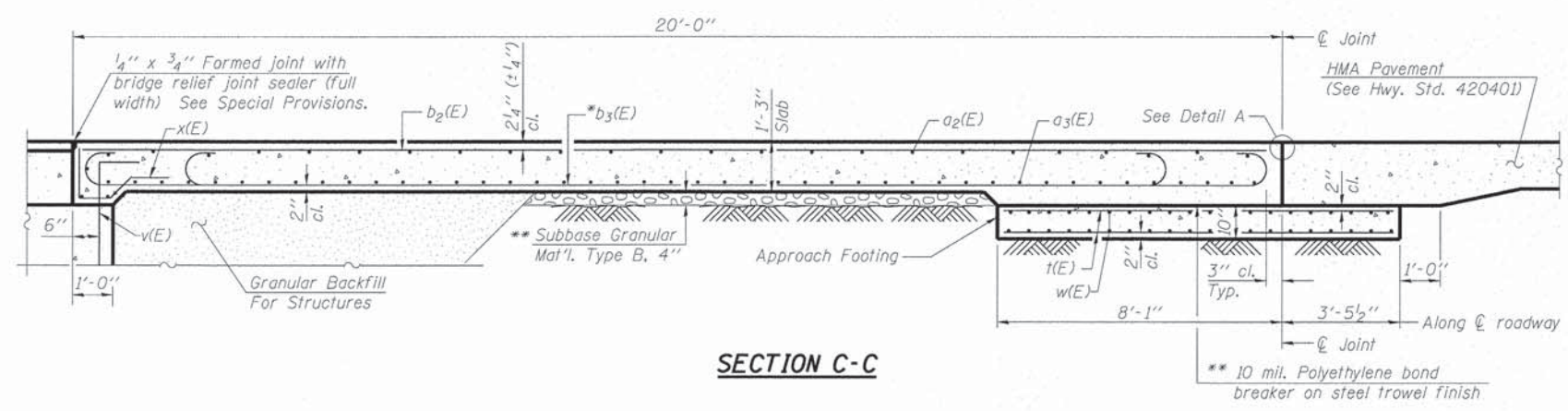
DETAIL A

PLAN

* Tilt #9 $b_3(E)$ bars as required to maintain clearance.

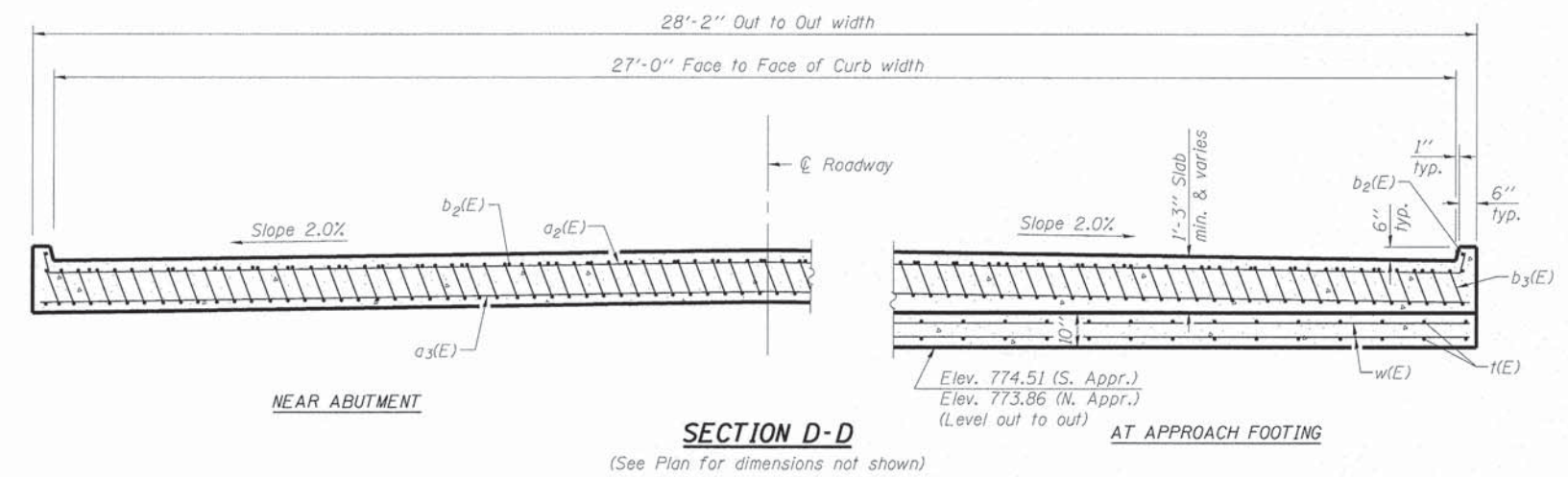
(Sheet 1 of 2)

USER NAME	DESIGNED	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 049-7701		MUN. ST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE	CHECKED	REVISIONS		1013	11-00034-00-BR	LAKE	52	29		
PLOT DATE	DRAWN	REVISIONS		SHEET NO. 8 OF 14 SHEETS			CONTRACT NO. 61B93			
	CHECKED	REVISIONS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002743						



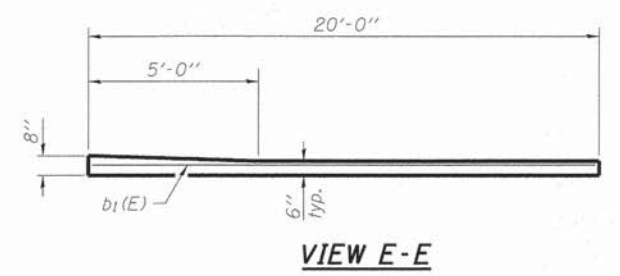
SECTION C-C

Notes:
 See sheet 8 of 14 for Detail A and View B-B.
 Approach slab concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 10 of 14.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 14.

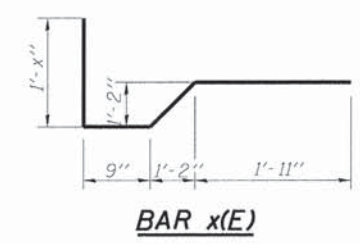


SECTION D-D

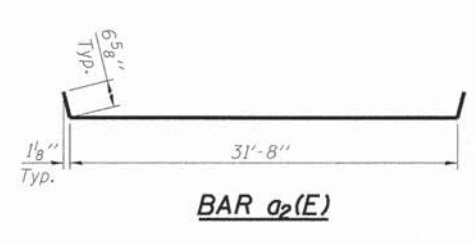
* Tilt #9 b3(E) bars as required to maintain clearance.
 ** Cost included with Concrete Superstructure.



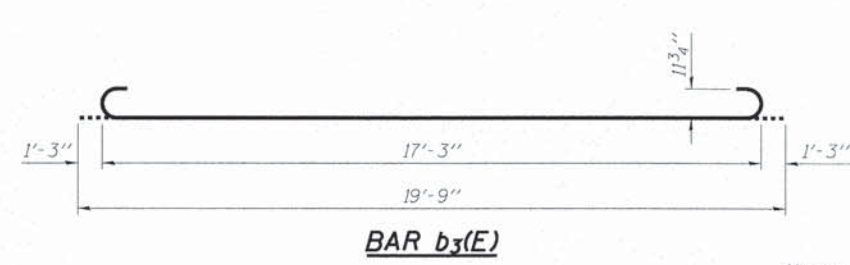
VIEW E-E



BAR x(E)



BAR a2(E)



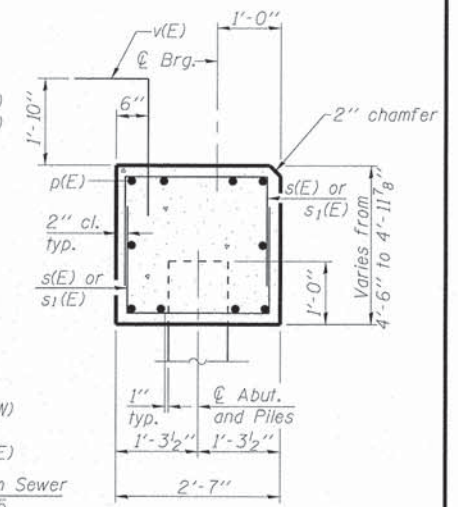
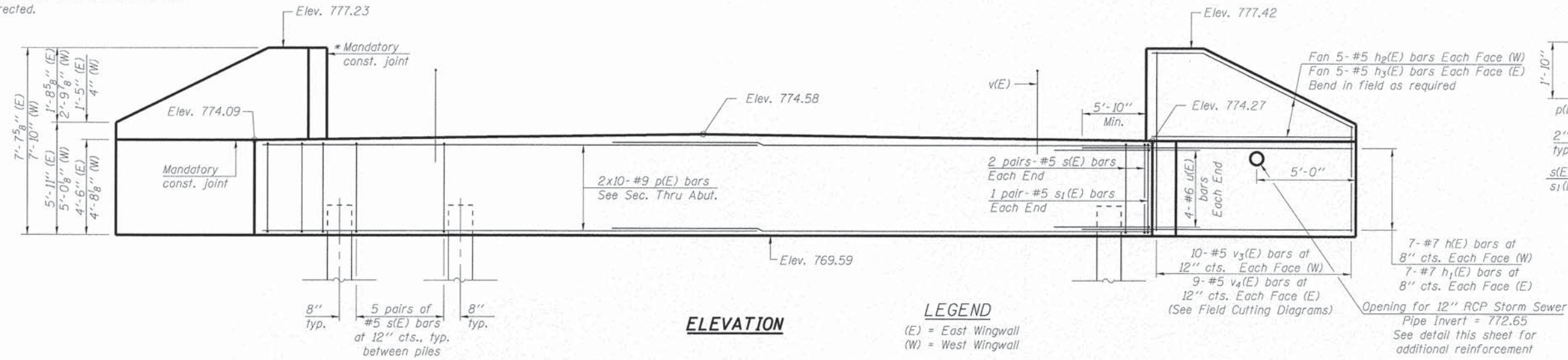
BAR b3(E)

**TWO APPROACHES
BILL OF MATERIAL**

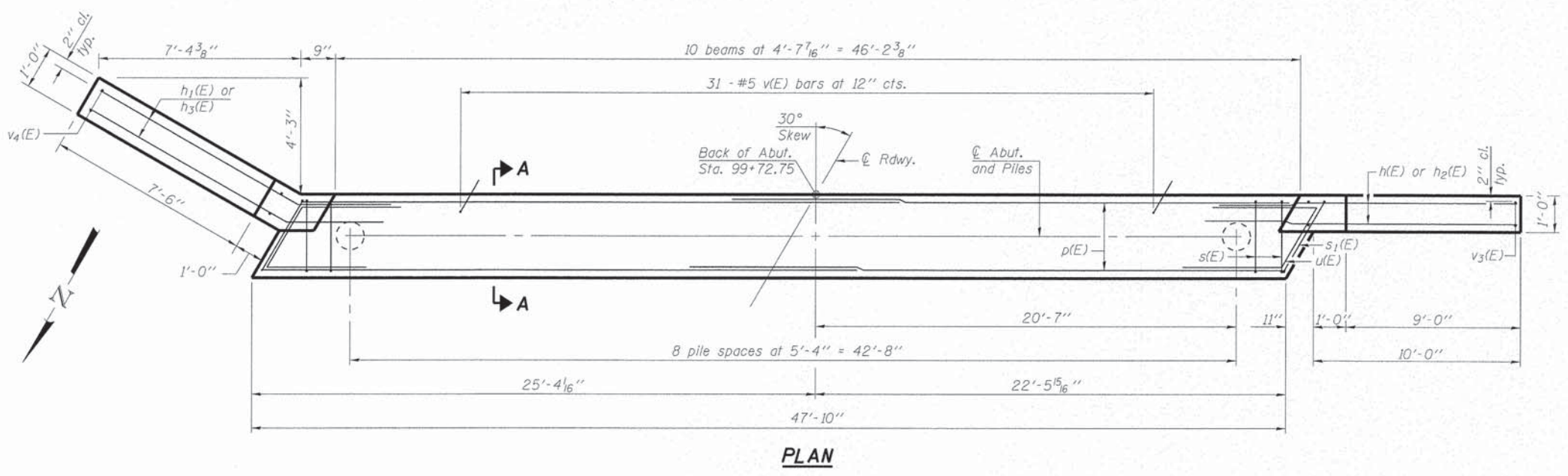
Bar	No.	Size	Length	Shape
a2(E)	32	#4	32'-9"	—
a3(E)	60	#5	32'-2"	—
b2(E)	50	#4	19'-8"	—
b3(E)	134	#9	19'-9"	—
t(E)	112	#4	11'-2"	—
w(E)	80	#5	32'-2"	—
x(E)	56	#5	6'-11"	└
Concrete Superstructure			Cu. Yd.	61.8
Concrete Structures			Cu. Yd.	18.6
Reinforcement Bars, Epoxy Coated			Pound	16,300

(Sheet 2 of 2)

* Cast top of wingwall flush with exterior beam face after beams have been erected.



SECTION A-A
(Dimensions are at Rt. L's)



PLAN

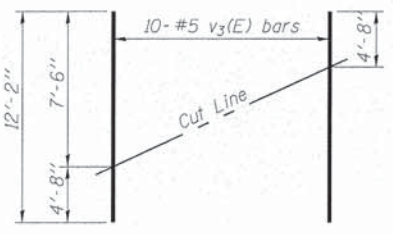
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#7	15'-8"	—
h1(E)	14	#7	14'-2"	—
h2(E)	10	#5	9'-11"	—
h3(E)	10	#5	8'-11"	—
p(E)	20	#9	28'-9"	—
s(E)	88	#5	8'-5"	□
s1(E)	4	#5	8'-9"	□
u(E)	8	#6	11'-5"	┘
v(E)	31	#5	4'-4"	┘
v3(E)	10	#5	12'-2"	—
v4(E)	9	#5	12'-11"	—
Structure Excavation		Cu. Yd.	168	
Concrete Structures		Cu. Yd.	26.5	
Reinforcement Bars, Epoxy Coated		Pound	4,340	
Furnishing Metal Shell Piles, 14" x 0.312"		Foot	480	
Driving Piles		Foot	480	
Test Pile, Metal Shell		Each	1	

PILE DATA

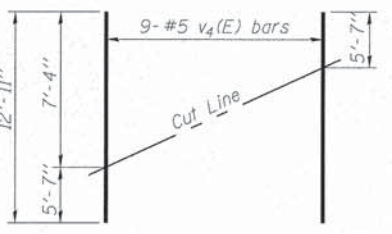
Type: 14" dia. Metal Shell Piles w/ 0.312" walls
 Nominal Required Bearing: 291 Kips
 Factored Resistance Available: 160 Kips
 Est. Length: 60'
 No. Production Piles: 8
 No. Test Piles: 1

NOTE:
 Contractor shall drive one (1) Test Pile in a permanent location at abutment as directed by the Engineer, before ordering the remainder of piles.



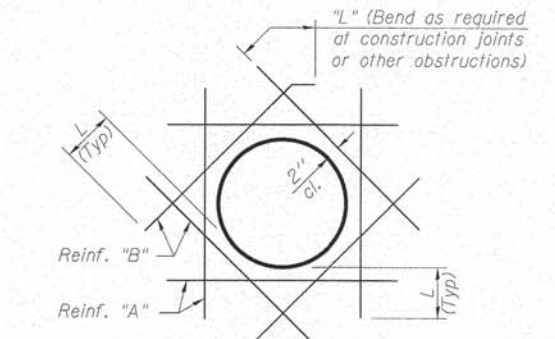
FIELD CUTTING DIAGRAM

Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.



FIELD CUTTING DIAGRAM

Order v4(E) full length. Cut as shown and use remainder of bars in opposite face.



REINFORCEMENT AT CONCRETE OPENINGS

Additional Reinforcement included with the cost of Concrete Structures.

BAR SIZE	"L"
#4	26"
#5	32"
#6	39"
#7	45"
#8	52"

Detail Notes:

- Provide additional reinforcement at concrete openings in accordance with this detail unless otherwise shown in the plans.
- Relocate Reinforcement Bars a maximum of 2" and cut remaining bars within opening.
- Provide minimum #4 bar size for reinforcing "A" and "B".
- Provide reinforcing "A" on each side of opening equal to minimum 1/2 total area of interrupted steel and extend steel a distance "L" beyond opening edges.
- Provide reinforcing "B" with size equal to the largest bar cut and place as follows:
 - A. Center of wall where one layer of reinforcing is provided.
 - B. Each face of wall where two layers of reinforcing are provided.
 - C. Top and Bottom for all slabs.

USER NAME *	DESIGNED -	REVISED -
PLOT SCALE *	CHECKED -	REVISED -
PLOT DATE *	DRAWN -	REVISED -
	CHECKED -	REVISED -

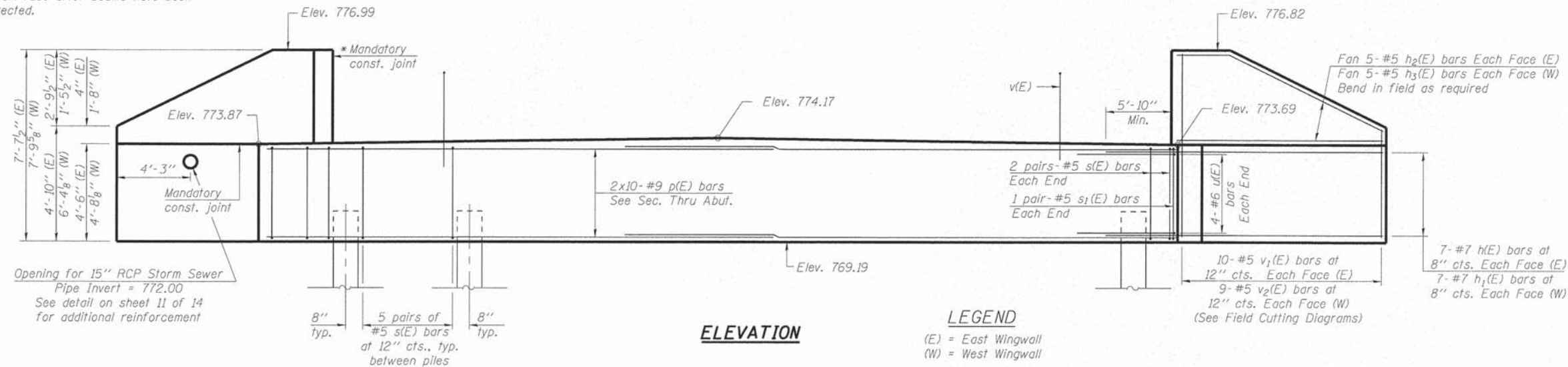
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 049-7701

SHEET NO. 10 OF 14 SHEETS

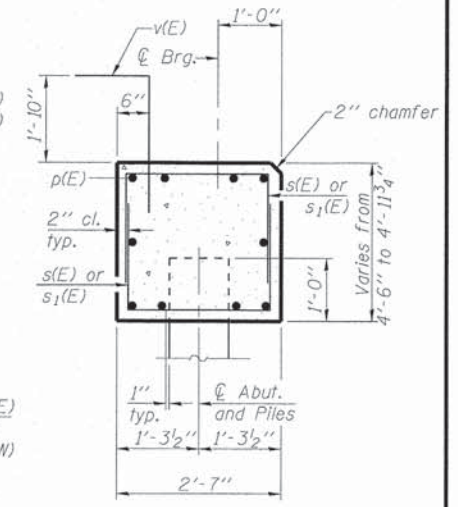
MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	31
CONTRACT NO. 61893				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-900217431				

* Cast top of wingwall flush with exterior beam face after beams have been erected.

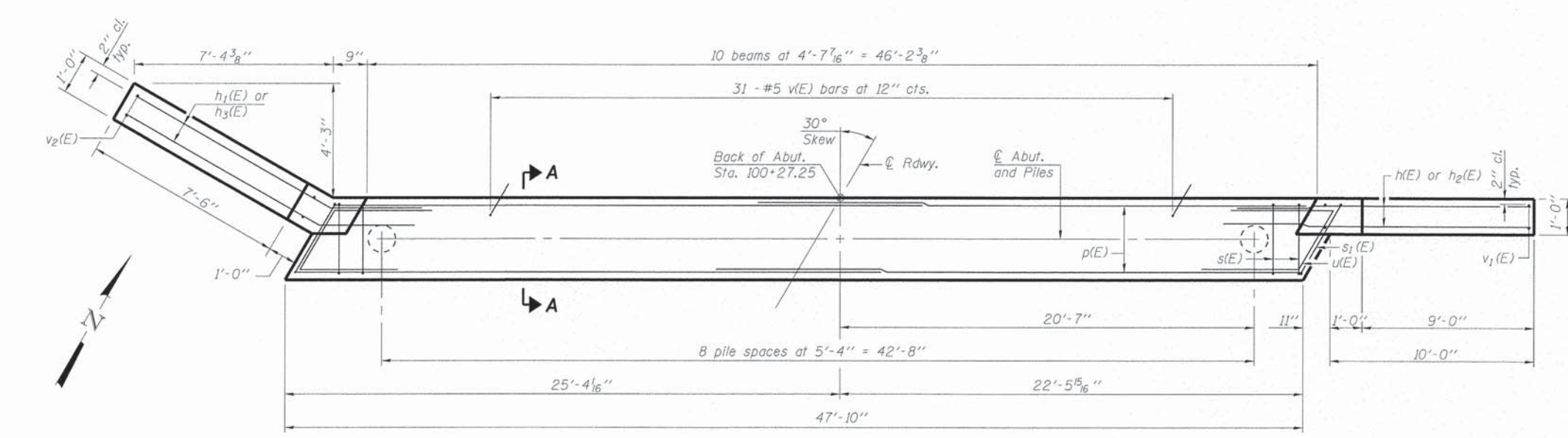


ELEVATION

LEGEND
(E) = East Wingwall
(W) = West Wingwall



SECTION A-A
(Dimensions are at Rt. L's)



PLAN

BILL OF MATERIAL

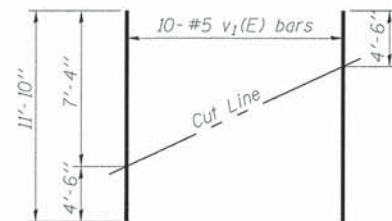
Bar No.	Size	Length	Shape
h(E)	#7	15'-8"	—
h1(E)	#7	14'-2"	—
h2(E)	#5	9'-11"	—
h3(E)	#5	8'-11"	—
p(E)	#9	28'-9"	—
s(E)	#5	8'-5"	□
s1(E)	#5	8'-9"	□
u(E)	#6	11'-5"	└
v(E)	#5	4'-4"	└
v1(E)	#5	11'-10"	—
v2(E)	#5	13'-6"	—
Structure Excavation	Cu. Yd.	168	
Concrete Structures	Cu. Yd.	26.5	
Reinforcement Bars, Epoxy Coated	Pound	4,350	
Furnishing Metal Shell Piles, 14" x 0.312"	Foot	448	
Driving Piles	Foot	448	
Test Pile, Metal Shell	Each	1	

For details of piles and Concrete Encasement, see sheet 12 of 14.
Lap Length for #9 Bars = 9'-8"

PILE DATA

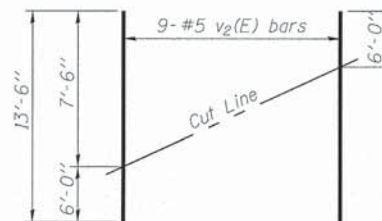
Type: 14" dia. Metal Shell Piles w/ 0.312" walls
Nominal Required Bearing: 291 Kips
Factored Resistance Available: 160 Kips
Est. Length: 56'
No. Production Piles: 8
No. Test Piles: 1

NOTE:
Contractor shall drive one (1) Test Pile in a permanent location at abutment as directed by the Engineer, before ordering the remainder of piles.



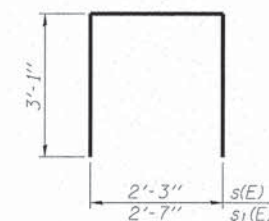
FIELD CUTTING DIAGRAM

Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.

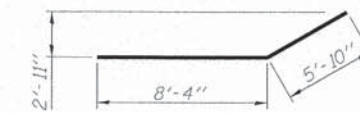


FIELD CUTTING DIAGRAM

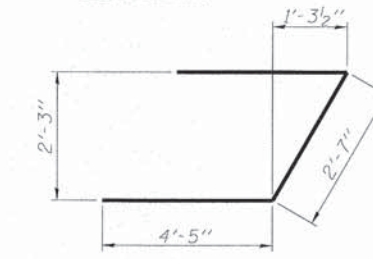
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



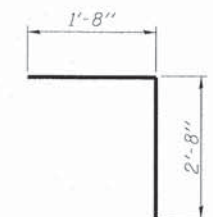
BARS s(E) & s1(E)



BAR h1(E)



BAR u(E)



BAR v(E)

USER NAME =	DESIGNED =	REVISED =
PLOT SCALE =	CHECKED =	REVISED =
PLOT DATE =	DRAWN =	REVISED =
	CHECKED =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 049-7701

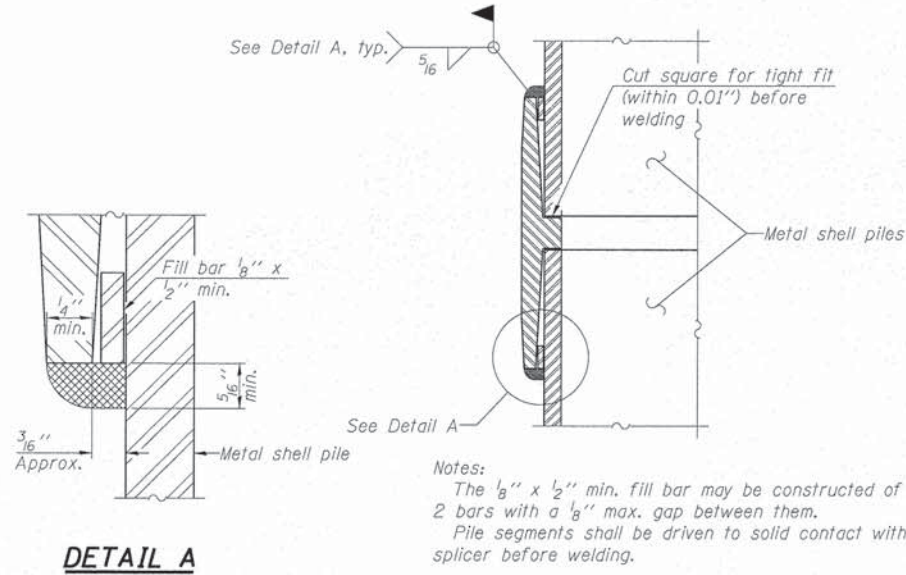
SHEET NO. 11 OF 14 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	32
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRN-9002(743)				



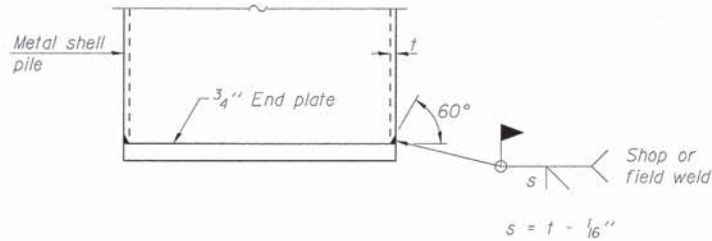
METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361

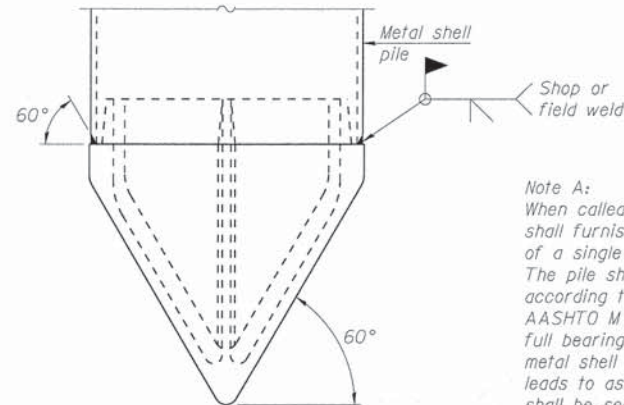


DETAIL A

WELDED COMMERCIAL SPLICE



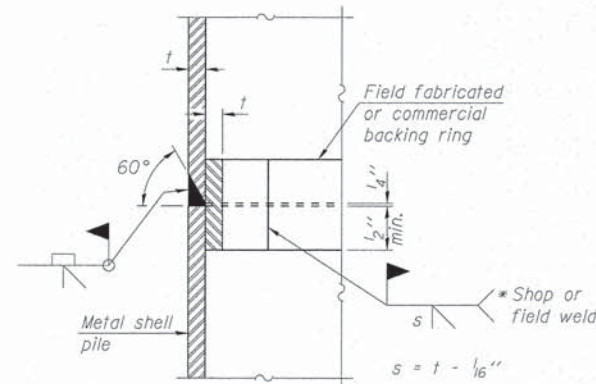
END PLATE ATTACHMENT



Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

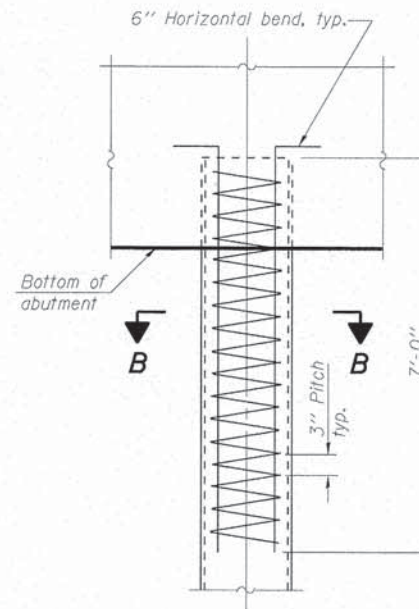
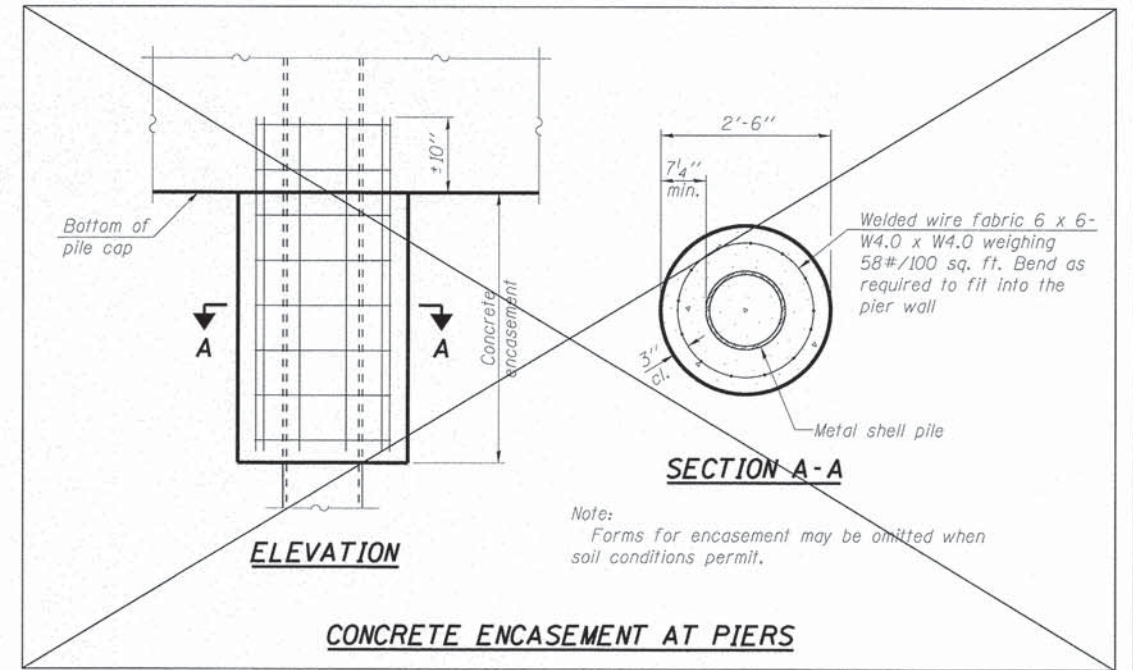
METAL SHELL PILE SHOE ATTACHMENT

(See Note A)



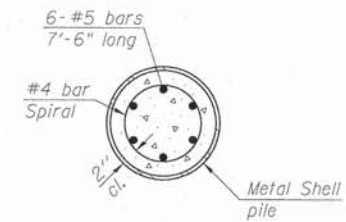
COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS



SECTION B-B

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS

1-27-12

BAXTER & WOODMAN Consulting Engineers	USER NAME =	DESIGNED -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DRAWN -	REVISED -
		CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
STRUCTURE NO. 049-7701**

SHEET NO. 12 OF 14 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B93	
			BRM-9002(743)	

SOIL AND MATERIAL CONSULTANTS, INC. File No. 20343 BORING LOG 2
 Client Baxter & Woodman, Inc. Sheet 1 of 4
 Project MacGillis Dr. Bridge Replacement - Date 7/18/11
 Location Round Lake, IL Drilled By AC
 Equipment CME 458 H.A. Other Logged By DA

Elev. ft.	Description	Depth ft.	S	T	R	B	N	Pen.	W	Uw	Qu
775.4'	18" SS (DN)										
	Brown fine sand, some medium-coarse sand & gravel, damp, medium dense - fill	1	SS	13"				13	6.8		
772.9'											
	Gray-brown-black clay, some silt, trace sand & gravel, damp, very tough - fill	2	SS	18"				8	2.25	23.1	99.5
770.4'											
	Brown-gray clay, some silt, trace sand & gravel, damp, tough to very tough	3	SS	18"				5	1.0	25.1	97.7
765.4'											
	Gray clay, some silt, trace sand, very damp, stiff	5	SS	18"				2	4	0.5	33.2
763.4'											
	Gray clay, some silt, trace sand & gravel, damp, very tough	6	SS	18"				1	0.25	36.0	91.7
756.4'											
		8	SS	18"				1			37.2

Water Level - depth, ft. elev. ft. - while drilling: 31.0 - after drilling: 28.0 - hrs. after drilling: _____
 S - sample T - type (DN), 20g (light spoon), 37 (heavy tube) R - recovery length, ft.
 B - Standard Penetration Test (SPT), blow/ft interval W - water content, %
 N - SPT, blow/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, blow/ft. Uw - dry unit weight of soil, lb./cu. ft.
 Qu - unconfined compressive strength, tons/ft. sq.

F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 20343 BORING LOG 2
 Client Baxter & Woodman, Inc. Sheet 3 of 4
 Project MacGillis Dr. Bridge Replacement - Date 7/18/11
 Location Round Lake, IL Drilled By AC
 Equipment CME 458 H.A. Other Logged By DA

Elev. ft.	Description	Depth ft.	S	T	R	B	N	Pen.	W	Uw	Qu
735.4'	Gray silt, some clay, trace fine sand, damp, medium dense	4									
733.4'	Gray silt, some fine sand, trace clay & gravel, damp, medium dense	18	SS	18"				9	11.8		
731.4'											
	Gray clay, some silt, trace sand & gravel, damp, very tough	19	SS	18"				9	3.5	16.2	112.3
729.4'											
		20	SS	18"				10	3.75	19.0	119.0
727.4'											
		21	SS	18"				8	2.75	19.3	115.3
725.4'											
		22	SS	18"				8	3.0	26.3	106.1
719.4'											
	Gray fine sand, very damp, medium dense	23								20.4	
716.4'											
	(a) see page 4 of 4	24	SS	18"				7	2.5	19.5	115.6

Water Level - depth, ft. elev. ft. - while drilling: 31.0 - after drilling: 28.0 - hrs. after drilling: _____
 S - sample T - type (DN), 20g (light spoon), 37 (heavy tube) R - recovery length, ft.
 B - Standard Penetration Test (SPT), blow/ft interval W - water content, %
 N - SPT, blow/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, blow/ft. Uw - dry unit weight of soil, lb./cu. ft.
 Qu - unconfined compressive strength, tons/ft. sq.

F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 20343 BORING LOG 2
 Client Baxter & Woodman, Inc. Sheet 2 of 4
 Project MacGillis Dr. Bridge Replacement - Date 7/18/11
 Location Round Lake, IL Drilled By AC
 Equipment CME 458 H.A. Other Logged By DA

Elev. ft.	Description	Depth ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay, some silt, trace sand, very damp, stiff to soft	9	SS	18"				1			32.1
772.9'											
		10	SS	18"				1			27.7
770.4'											
		11	SS	18"				2	0.5	20.6	112.3
767.4'											
	Gray silt, some fine sand & clay, very damp, loose to medium dense	12							0.5	24.7	108.2
763.4'											
		13	SS	18"				3			18.9
760.4'											
	Gray silt, some clay, trace fine sand, damp, medium dense	14	SS	18"				7			11.7
756.4'											
		15	SS	18"				11	4.0	16.3	122.4
754.4'											
		16	SS	18"				8			15.0
752.4'											
		17	SS	18"				7			12.3

Water Level - depth, ft. elev. ft. - while drilling: 31.0 - after drilling: 28.0 - hrs. after drilling: _____
 S - sample T - type (DN), 20g (light spoon), 37 (heavy tube) R - recovery length, ft.
 B - Standard Penetration Test (SPT), blow/ft interval W - water content, %
 N - SPT, blow/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, blow/ft. Uw - dry unit weight of soil, lb./cu. ft.
 Qu - unconfined compressive strength, tons/ft. sq.

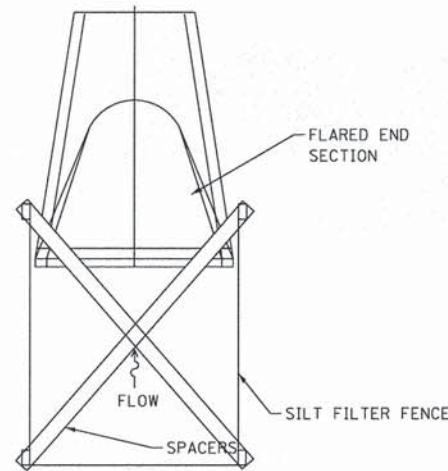
F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 20343 BORING LOG 2
 Client Baxter & Woodman, Inc. Sheet 4 of 4
 Project MacGillis Dr. Bridge Replacement - Date 7/18/11
 Location Round Lake, IL Drilled By AC
 Equipment CME 458 H.A. Other Logged By DA

Elev. ft.	Description	Depth ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay, some silt, trace sand & gravel, damp, very tough	25	SS	18"				7	2.5	24.5	105.7
709.4'											
	Gray silt, trace fine sand & clay, very damp, medium dense	26	SS	18"				9			21.6
704.4'											
	Gray fine sand, very damp, loose	27	SS	18"				4			18.1
701.4'											
	End of Boring										
	(a) Gray clay, some silt, trace sand & gravel, damp, very tough										

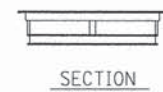
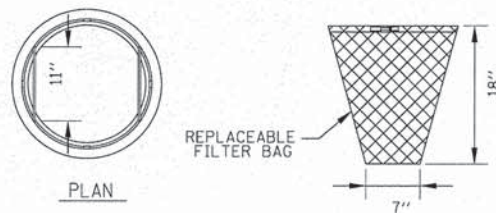
Water Level - depth, ft. elev. ft. - while drilling: 31.0 - after drilling: 28.0 - hrs. after drilling: _____
 S - sample T - type (DN), 20g (light spoon), 37 (heavy tube) R - recovery length, ft.
 B - Standard Penetration Test (SPT), blow/ft interval W - water content, %
 N - SPT, blow/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, blow/ft. Uw - dry unit weight of soil, lb./cu. ft.
 Qu - unconfined compressive strength, tons/ft. sq.

F-111b



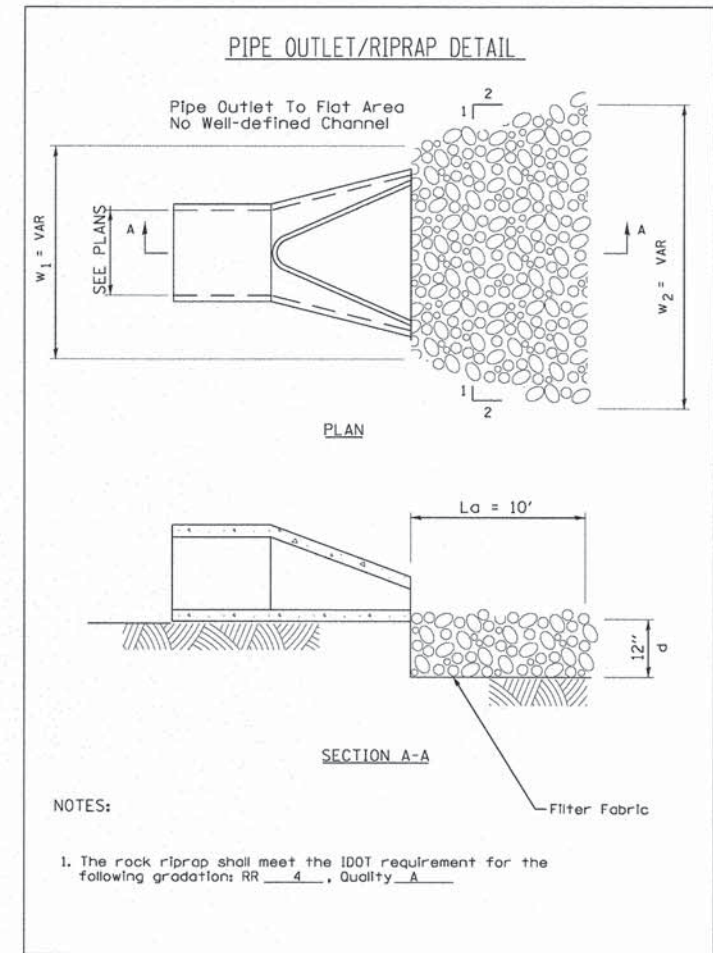
•INSTALL PER IDOT STANDARD 280001-07

DRAINAGE PROTECTION
NOT TO SCALE

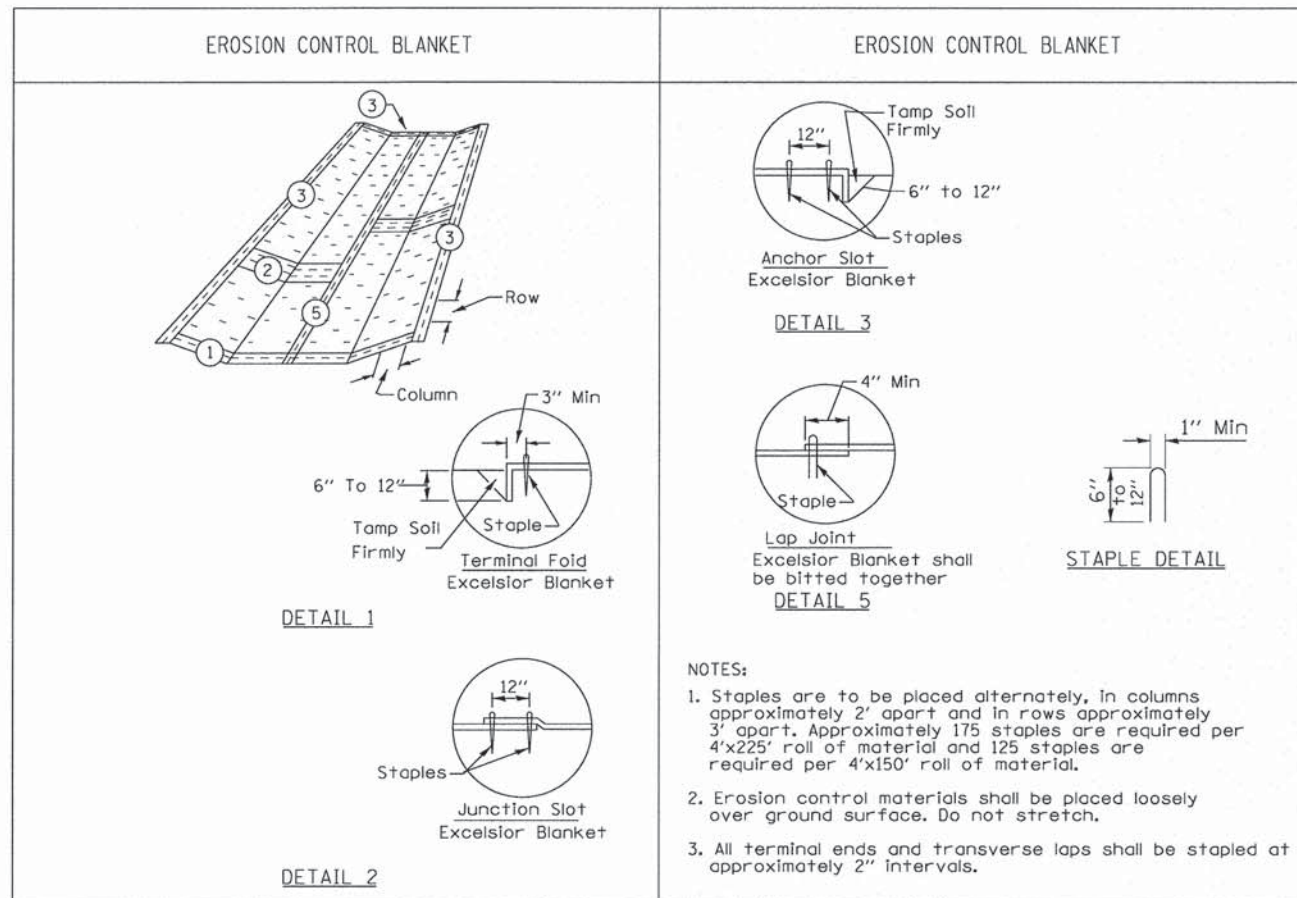


GENERAL NOTES:
 FRAME: TOP RING CONSTRUCTED FROM 1 1/4" x 1 1/4" x 1/8" ANGLE, BASE RING CONSTRUCTED OF 1 1/2" x 1/2" x 1/8" CHANNEL, HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" x 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM-A36.
 REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH, CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.
 PER IDOT SPEC. ART.1081.15 (h)

INLET FILTER
NO SCALE



NOTES:
 1. The rock riprap shall meet the IDOT requirement for the following gradation: RR 4, Quality A



NOTES:
 1. Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4'x225' roll of material and 125 staples are required per 4'x150' roll of material.
 2. Erosion control materials shall be placed loosely over ground surface. Do not stretch.
 3. All terminal ends and transverse laps shall be stapled at approximately 2" intervals.

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 \\corpboxwood.com\projects\wood\00730-0001111\Bridges\CADD-SURVEY\Drawings\DDNS\Phase 2\00730_ER-Dets.sht



DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08-07-15	FILE - 100730_ER-Dets.sht

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL DETAILS

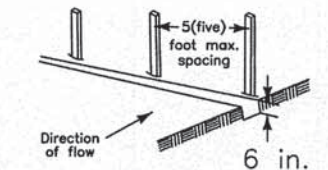
SCALE: NONE

STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	36
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-900217431				

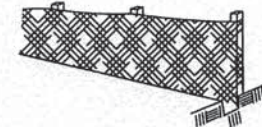
COPYRIGHT © 2014 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL SURVEYOR
 LICENSE NO. 184-00121 - EXPIRES 4/30/2015
 566bcb
 8/10/2015
 \\corpbboxwood.com\projects\Wokema\ROLL\100730-MacGillis_Bridge\CADD-SURVEY\Drawings\DCNS\Phase 2\100730_ER-Dets.sht

1. Set posts and excavate or slit-trench a 6-inch deep trench upslope along the line of the post

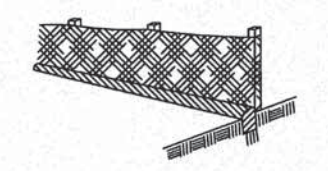


5 (five) foot max. spacing
6 in.
Direction of flow

2. Attach the geotextile filter fabric to each post with a minimum of 3 (three) fasteners per post and extend to the bottom of the trench. Acceptable fasteners include staples, zip ties, or wire ties

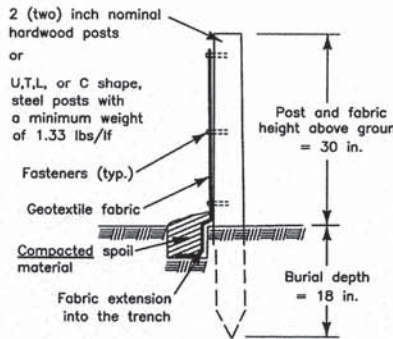


3. Backfill and compact the excavated spoil materials



Geotextile Requirement	Test Method	MARV
Grab strength	ASTM D 4632	
- Machine direction		550 N
- X-machine direction		450 N
Permittivity	ASTM D 4491	0.05 sec-1
Apparent opening size*	ASTM D 4751	0.60 mm
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours

Note:
Value for apparent opening size represents maximum average roll value.



2 (two) inch nominal hardwood posts or U,T,L, or C shape, steel posts with a minimum weight of 1.33 lbs/lf

Post and fabric height above ground = 30 in.

Fasteners (typ.)

Geotextile fabric


Compacted spoil material

Fabric extension into the trench

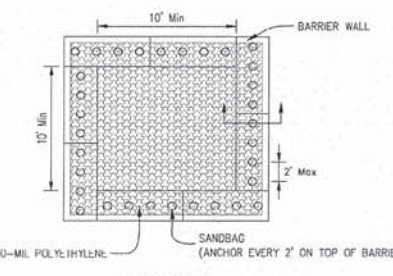
Burial depth = 18 in.

SILT FENCE DETAIL

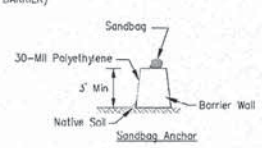
DATE: 4/21/08 BY: KAW
REVISED: BY:



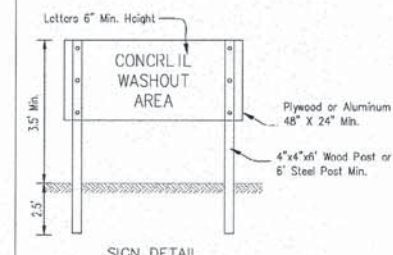
LAKE COUNTY
STORMWATER MANAGEMENT COMMISSION



10' Min
10' Min
2' Max
30-MIL POLYETHYLENE
SANDBAG (ANCHOR EVERY 2' ON TOP OF BARRIER)
PLAN VIEW



Sandbag
30-Mil Polyethylene
5' Min
Barrier Wall
Native Soil
Sandbag Anchor
BARRIER WALL ANCHOR SECTION



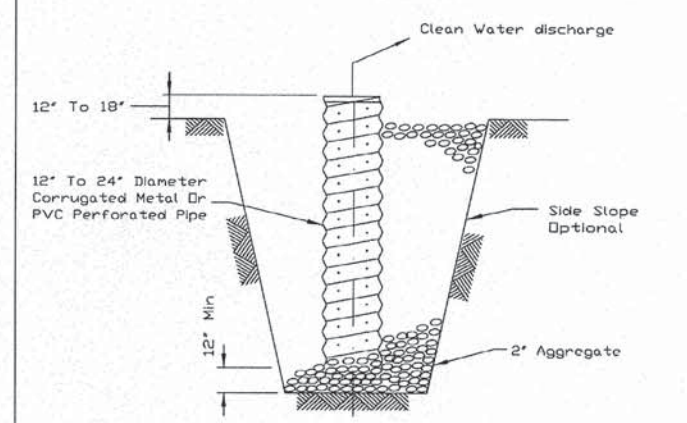
Letters 6" Min. Height
3.5 Min.
2.5'
CONCRETE WASHOUT AREA
Plywood or Aluminum 48" X 24" Min.
4"x4"x6" Wood Post or 6" Steel Post Min.
SIGN DETAIL

NOTES:

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

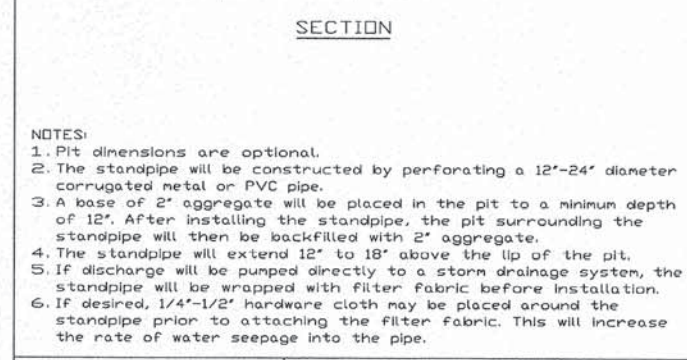
TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

SUMP PIT PLAN



Clean Water discharge
12' To 18'
12' To 24" Diameter Corrugated Metal Or PVC Perforated Pipe
Side Slope Optional
12' Min.
2" Aggregate


SECTION



NOTES:

- Pit dimensions are optional.
- The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
- A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
- The standpipe will extend 12" to 18" above the lip of the pit.
- If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
- If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE	Project	Date
Designed		
Checked		
Approved		



STANDARD DVG. NO.
IL-650
SHEET 1 OF 1
DATE 8-11-94

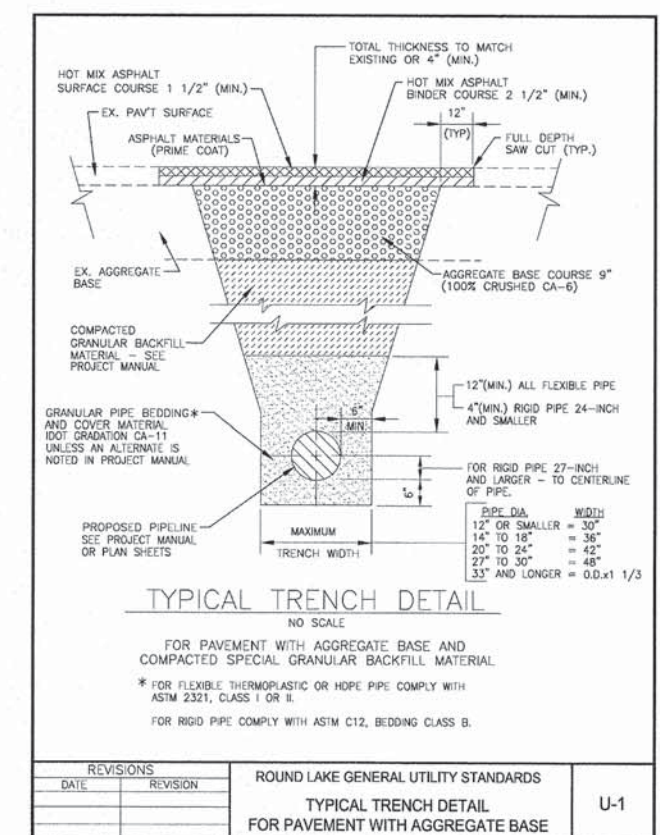
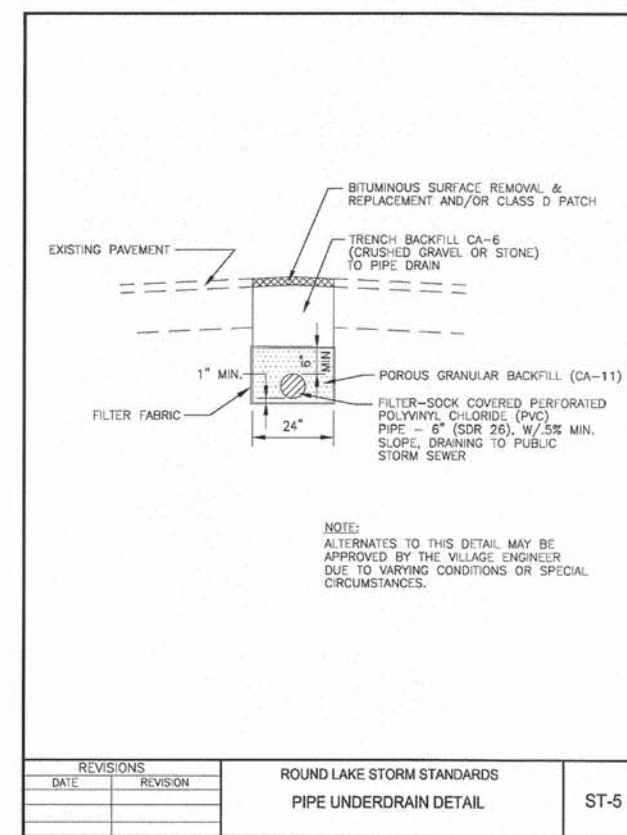
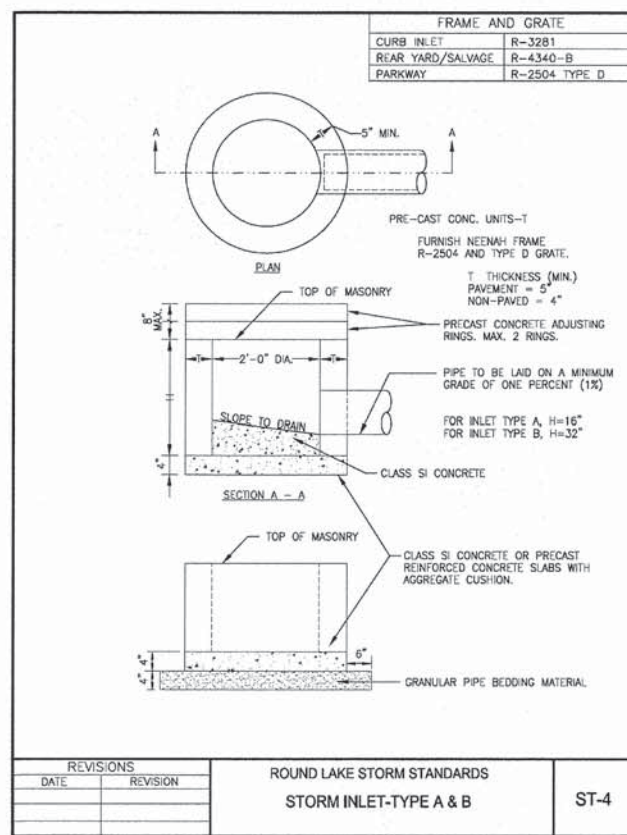
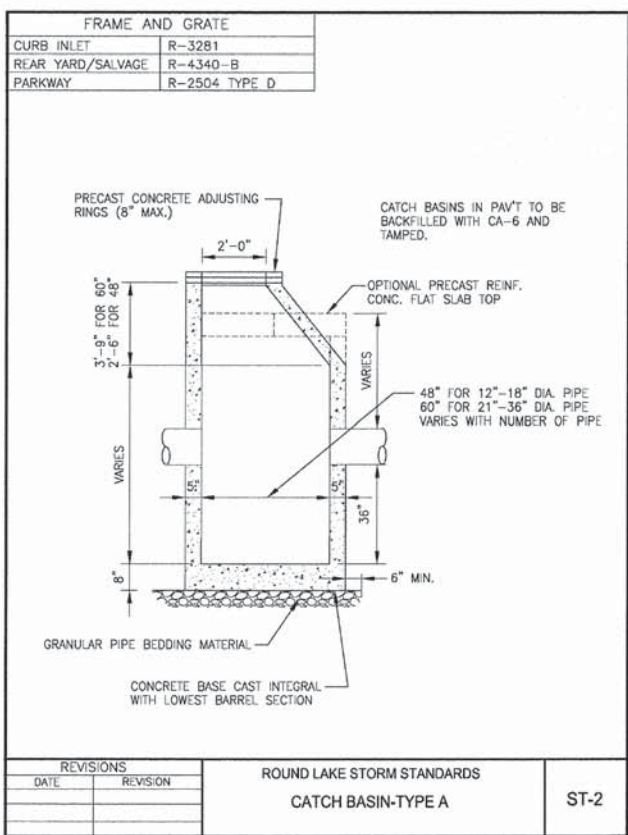
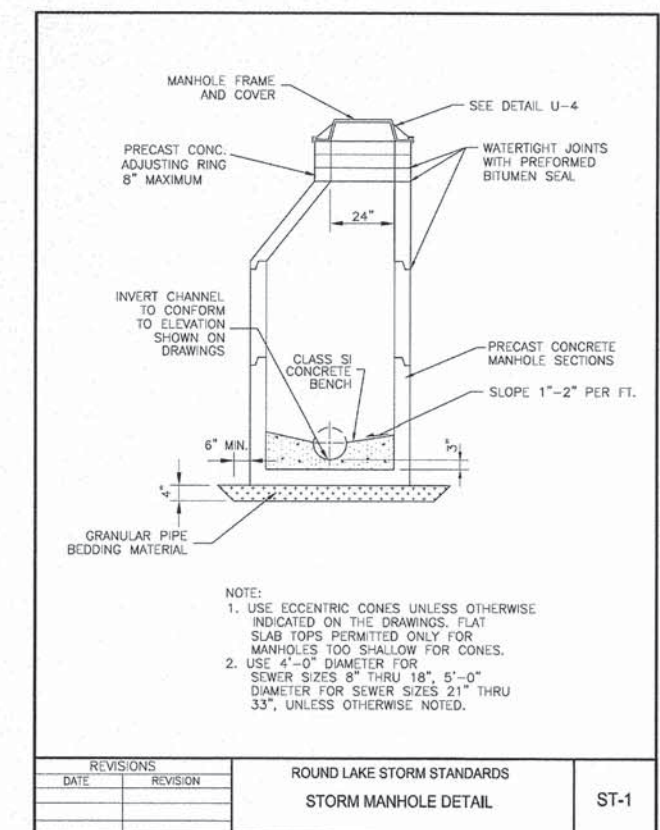
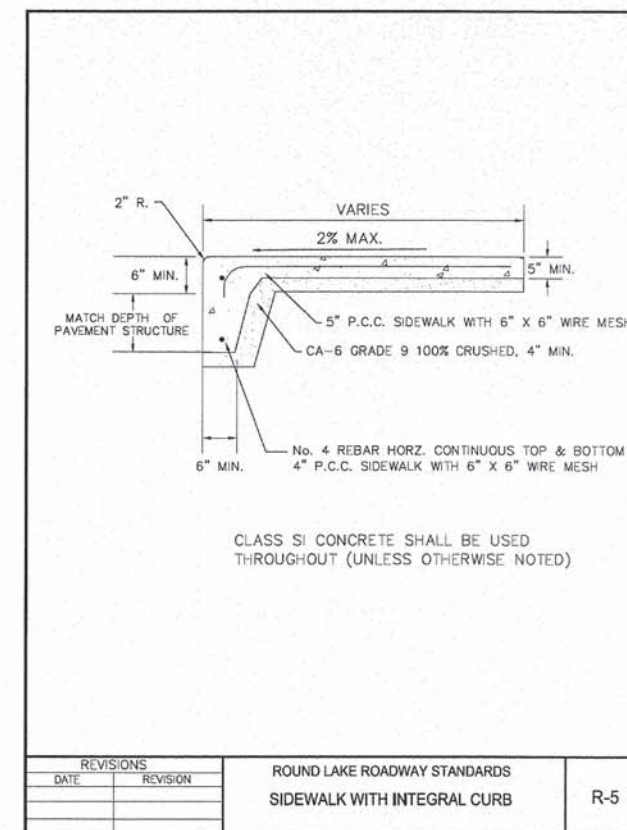
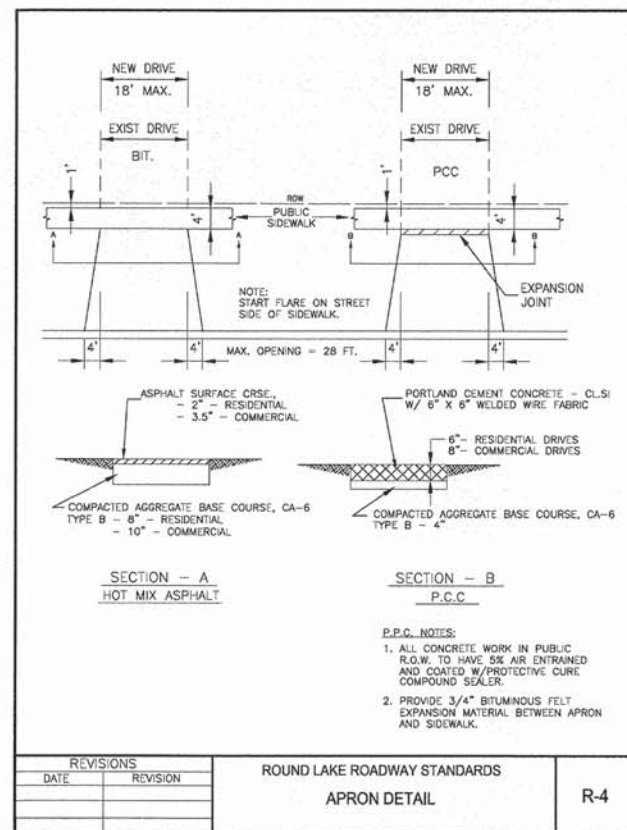
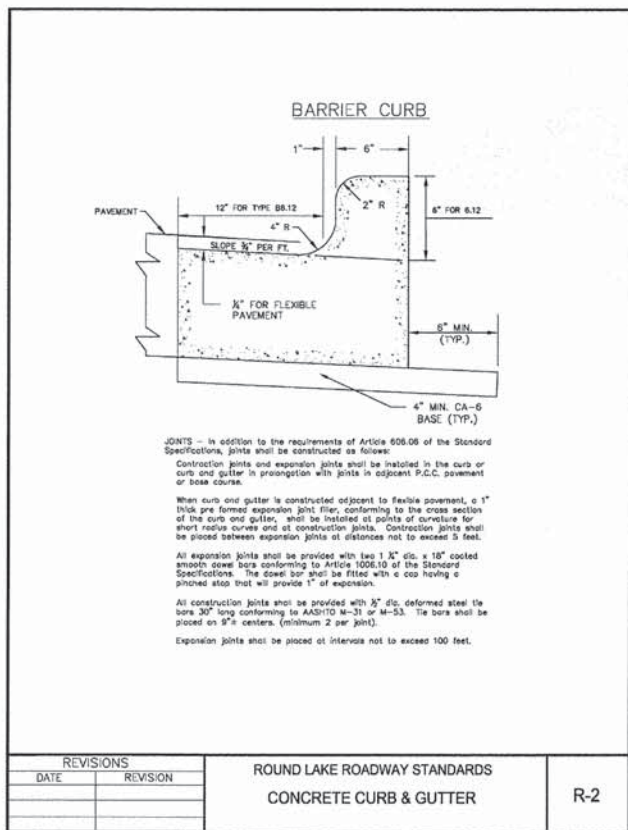
BAXTER & WOODMAN Consulting Engineers	DESIGNED - CAC	REVISED -	
	DRAWN - BCD	REVISED -	
	CHECKED - TAO	REVISED -	
	DATE - 08-07-15	FILE - 100730_ER-Dets.sht	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS

SCALE: NONE STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	37
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-9002(743)				



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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 384-00121 - EXPIRES 4/30/2015
 PROJECT: Wokemo ROLLK V00730-MacCillis Bridge VADP SURVEY Drawings V00730-Misc-De1.sht
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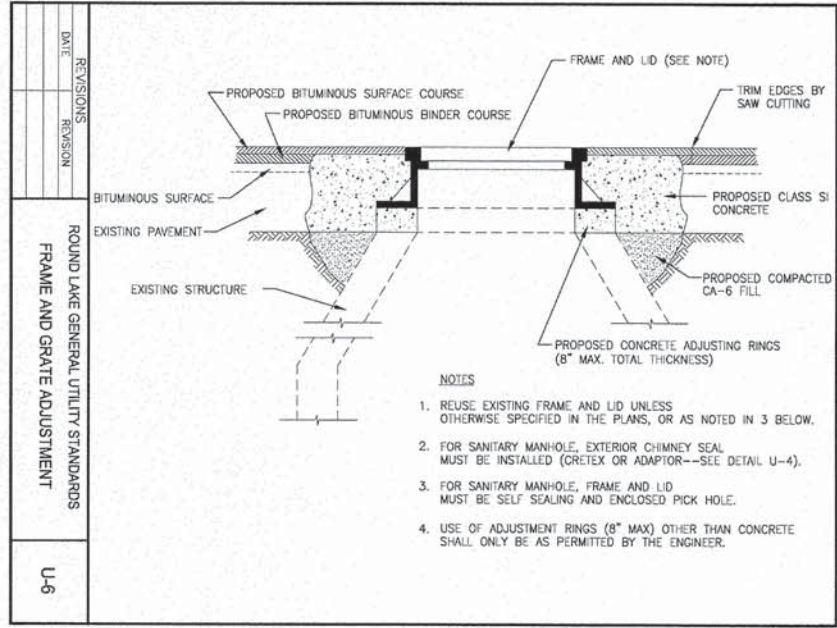
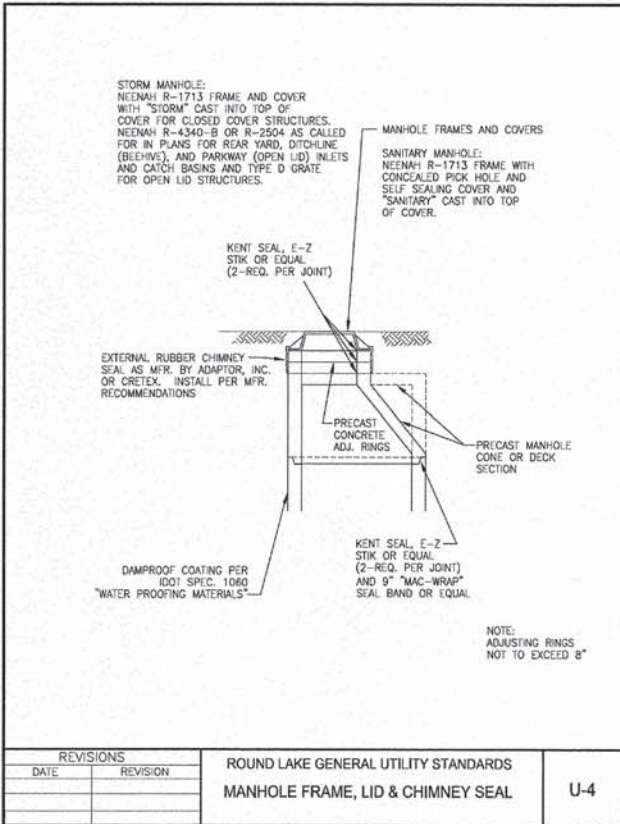
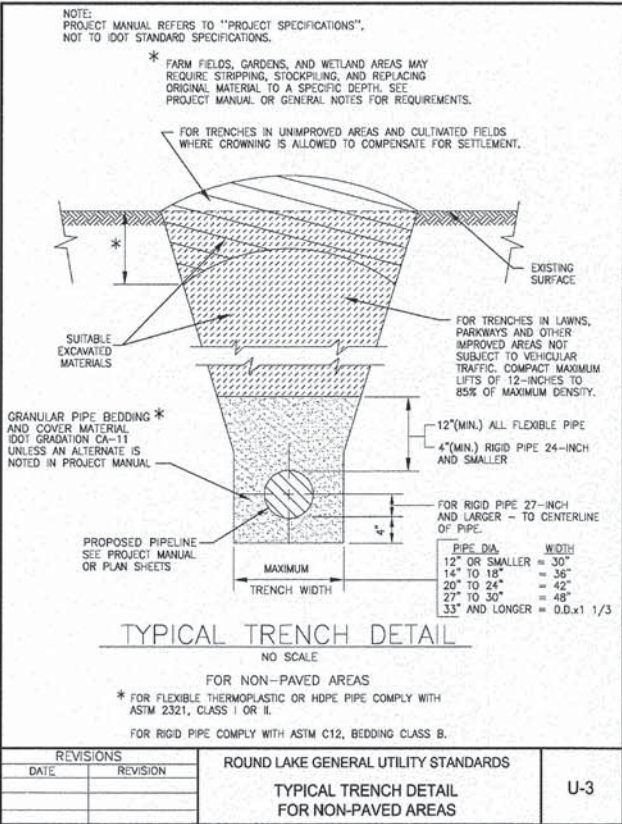
DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08-07-15	FILE - 100730_Misc-De1.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND STORM SEWER DETAILS
 SCALE: STA. TO STA.

MUN. ST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	38
CONTRACT NO. 61893				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-90021743				

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 LICENSE NO. 186-00021 - EXPIRES 4/30/2017
 I:\Mokemo\100730\100730-Misc-Det2.sht
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DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08-07-15	FILE - 100730_Misc-Det2.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND STORM SEWER DETAILS

SCALE: STA. TO STA.

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	39
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-900217431				

ROUTE MARKERS

FOR U.S. ROUTES
MI-40-2424

FOR ILLINOIS ROUTES
MI-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

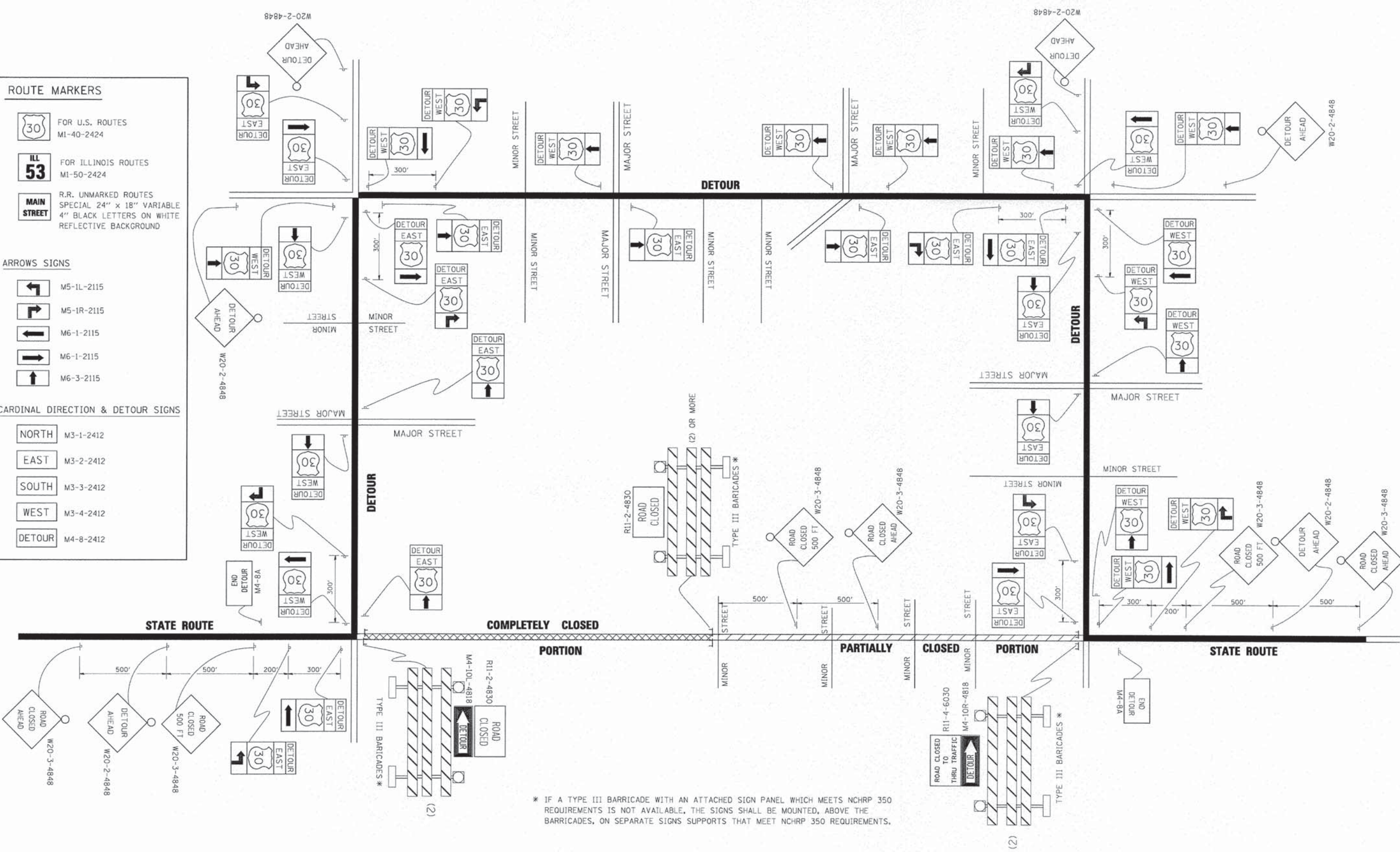
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

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 8/10/2005
 ...\\g01p01\work\p1\1001\DR\WAKDSCG\18108315\1121.dgn
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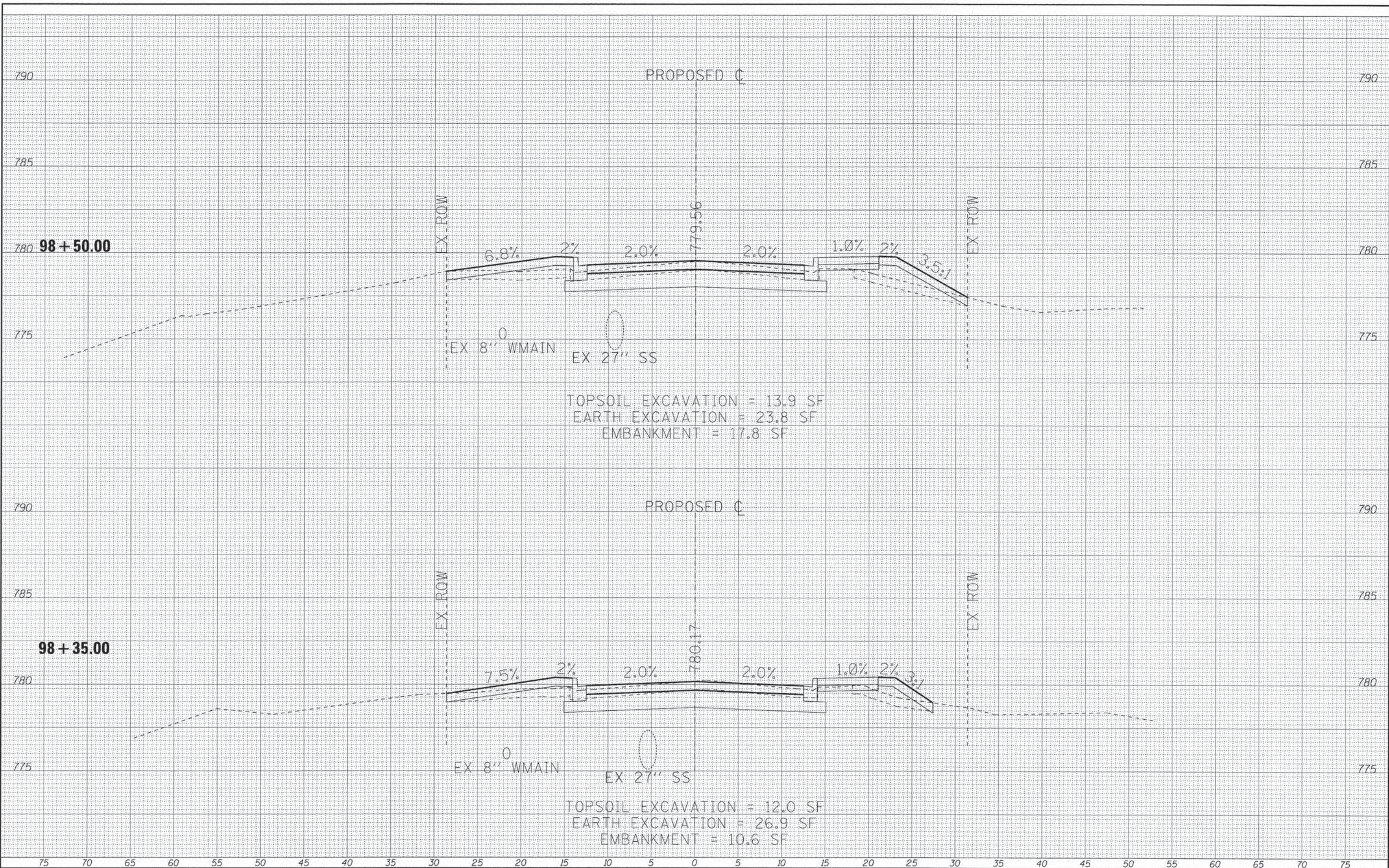
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PLOT SCALE = 49,9999' / IN.	CHECKED -	REVISIED -	
PLOT DATE = 9/14/2009	DATE -	REVISIED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

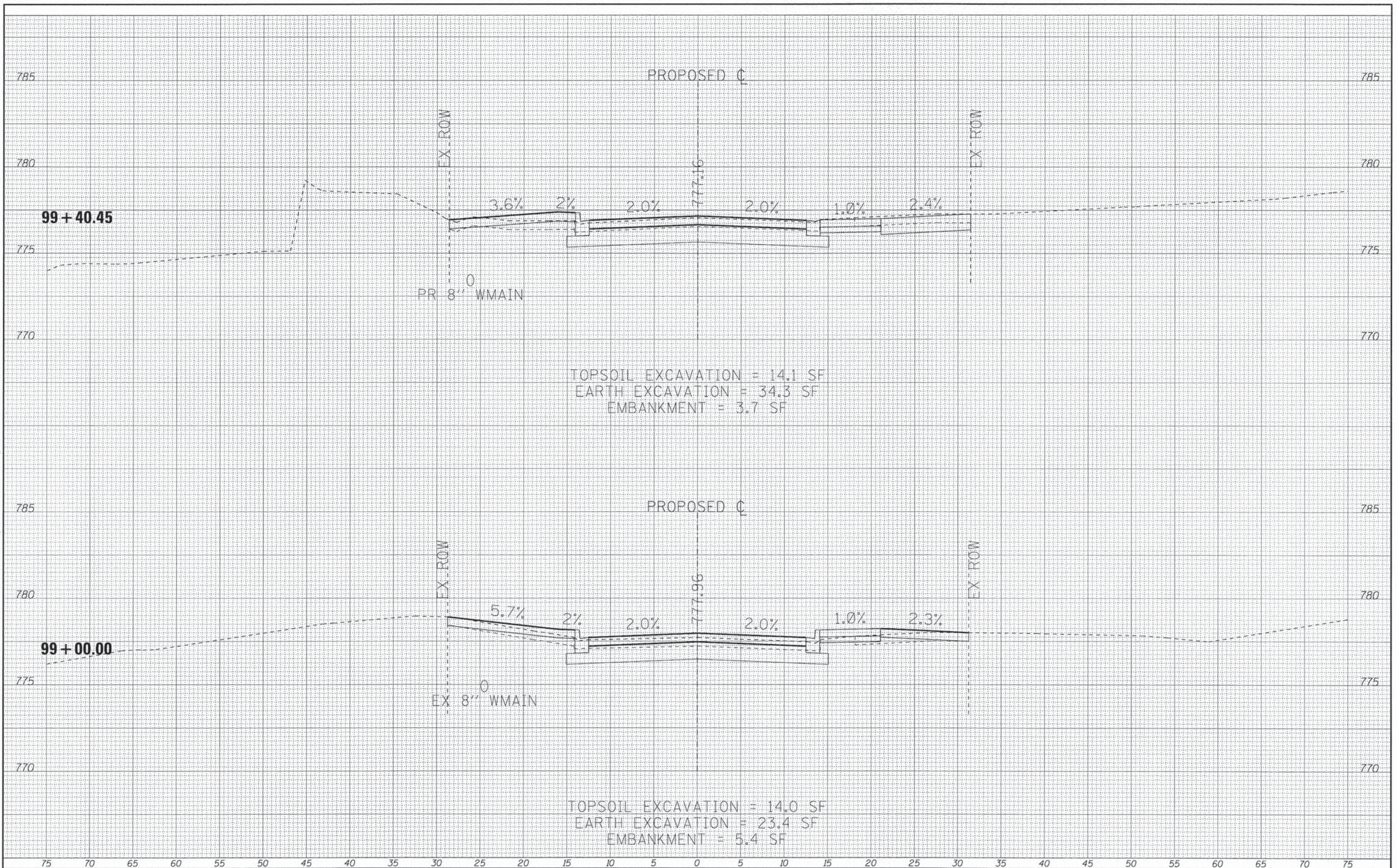
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	43
TC-21		CONTRACT NO. 61893		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJ. BRM-9002(743)				

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 PROJECT: 11-00034-00-BR
 SHEET: 52 OF 44
 DATE: 08-07-15
 DRAWN BY: BCD
 CHECKED BY: TAO
 DESIGNED BY: CAC
 DATE: 08-07-15



	DESIGNED - CAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MAGGILLIS DRIVE		MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - BCD	REVISED -				1013	11-00034-00-BR	LAKE	52	44
	CHECKED - TAO	REVISED -				CONTRACT NO. 61B93				
	DATE - 08-07-15	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-90021743				
SCALE: H: 1"=5' V: 1"=2.5' STA. 98+35.00 TO STA. 98+50.00										

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 08-00101 - EXPIRES 4/30/2015
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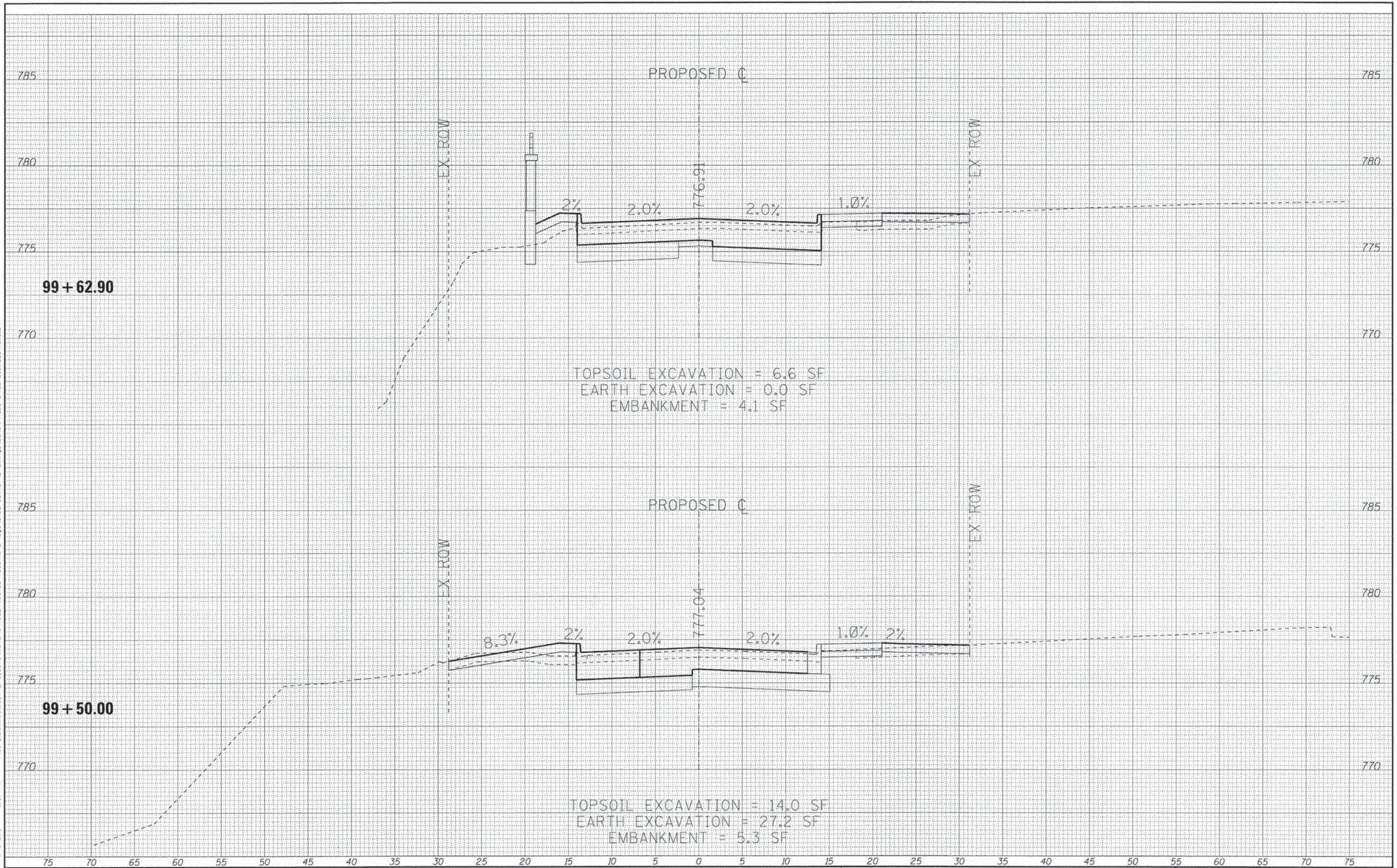


TOPSOIL EXCAVATION = 14.1 SF
 EARTH EXCAVATION = 34.3 SF
 EMBANKMENT = 3.7 SF

TOPSOIL EXCAVATION = 14.0 SF
 EARTH EXCAVATION = 23.4 SF
 EMBANKMENT = 5.4 SF

BAXTER & WOODMAN Consulting Engineers	DESIGNED - CAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CROSS SECTIONS MAGGILLIS DRIVE				MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - BCD	REVISED -									1013	11-00034-00-BR	LAKE	52	45
	CHECKED - TAO	REVISED -									CONTRACT NO. 61B93				
	DATE - 08-07-15	REVISED -									FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT BRM-900217431				
STA. 99+00.00 TO STA. 99+40.45		SCALE: H: 1"=5' V: 1"=2.5'													

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 LICENSE NO. 184-00121 - EXPIRES 4/30/2015
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DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08-07-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

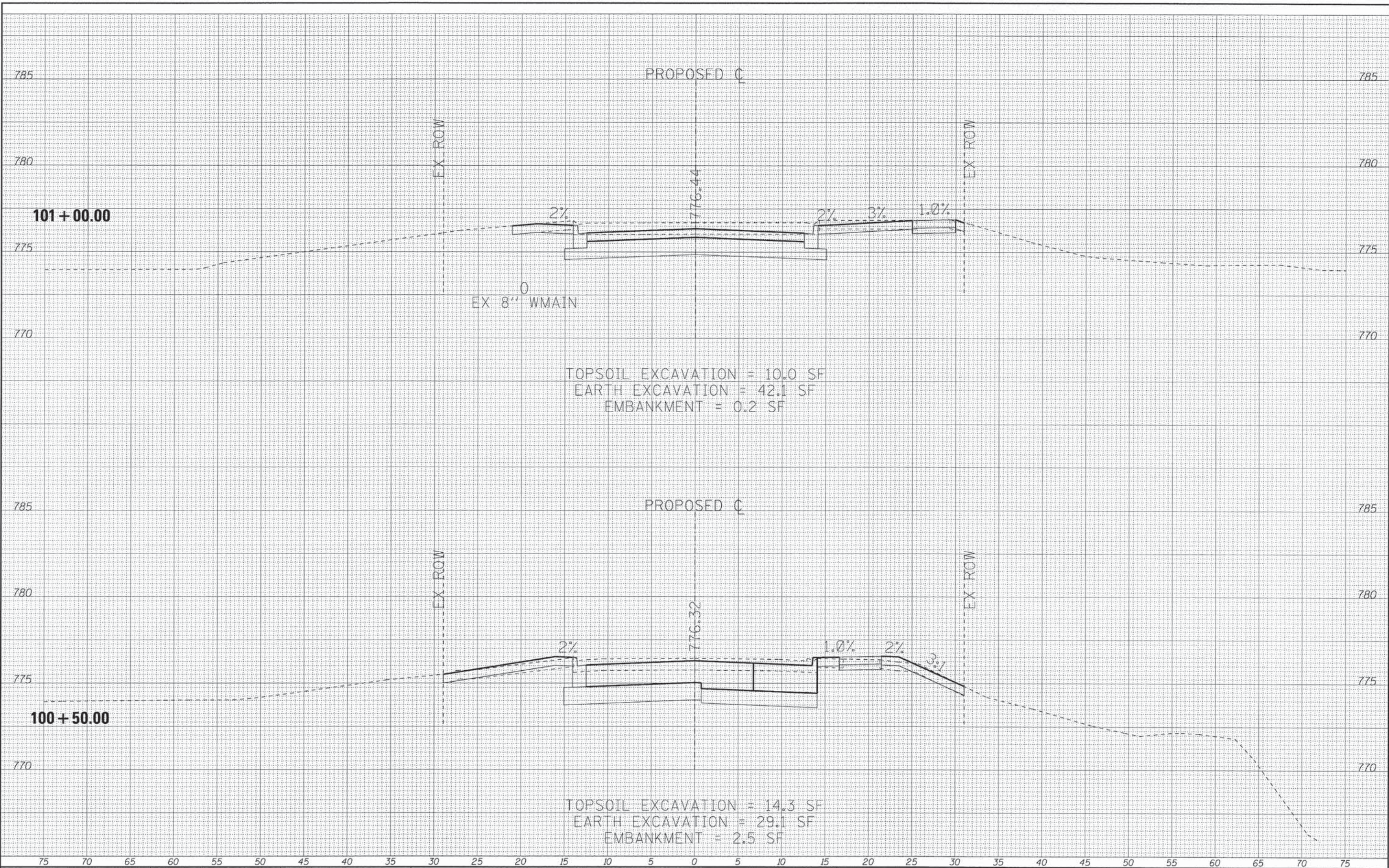
CROSS SECTIONS
MACGILLIS DRIVE

SCALE: H: 1"=5' V: 1"=2.5'

STA. 99+50.00 TO STA. 99+62.90

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	46
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002743			CONTRACT NO. 61B93	

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BAXTER & WOODMAN
 Consulting Engineers

DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08-07-15	REVISED -

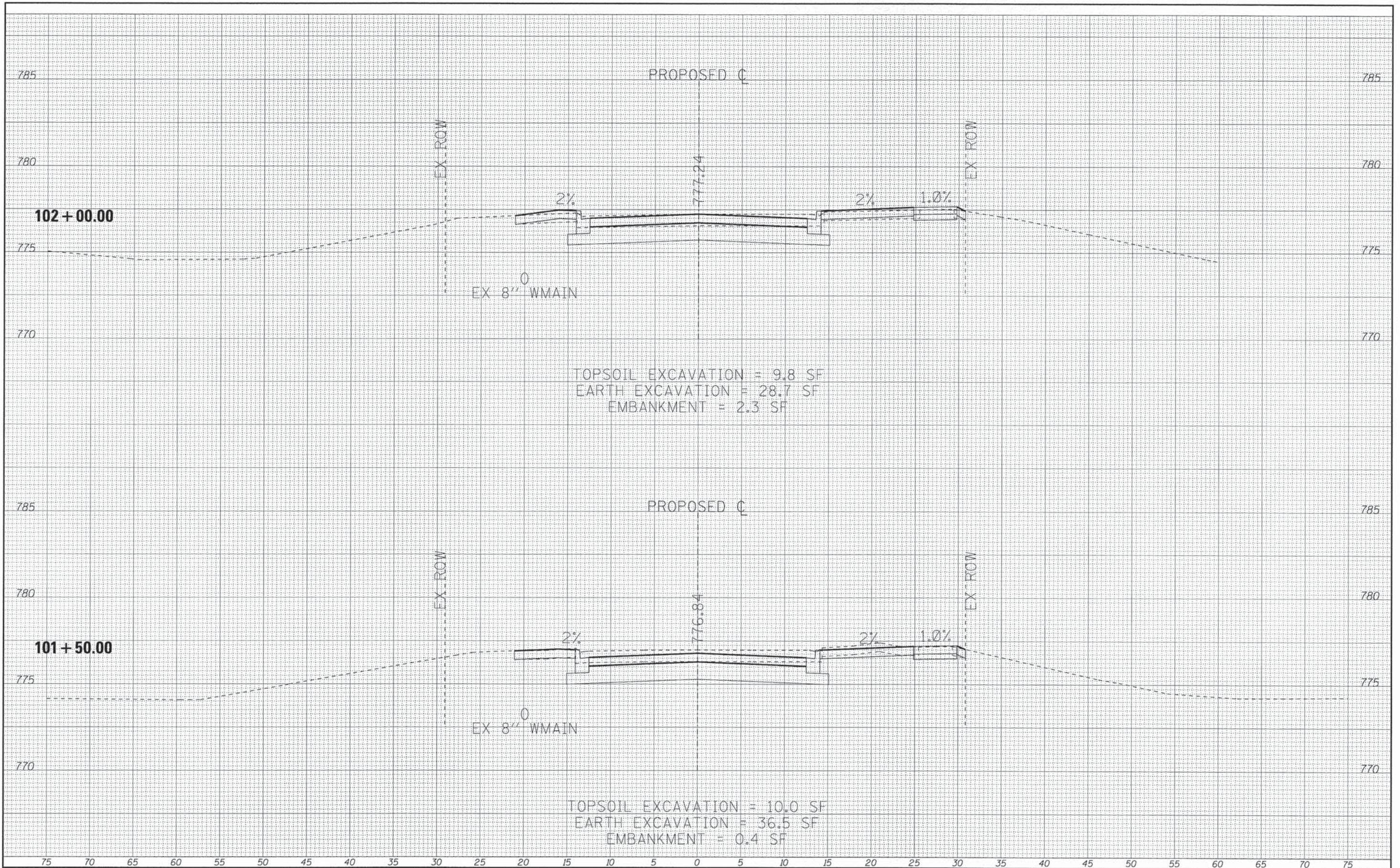
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MACGILLIS DRIVE**

SCALE: H: 1"=5' V: 1"=2.5'

STA. 100+50.00 TO STA. 101+00.00

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	48
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT BRM-9002(743)			CONTRACT NO. 61B93	



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BAXTER & WOODMAN
Consulting Engineers

DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08-07-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MAGGILLIS DRIVE

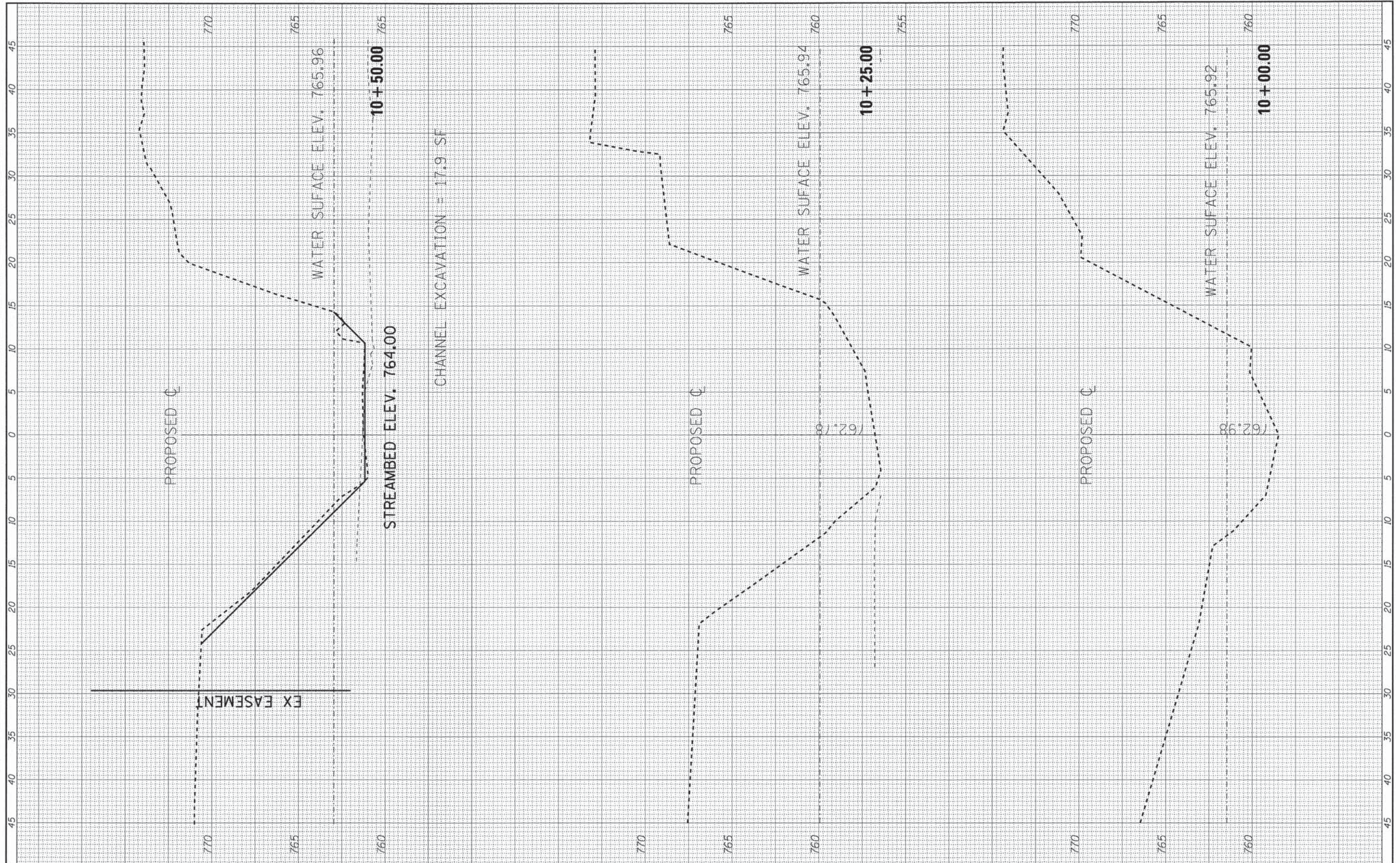
SCALE: H: 1"=5' V: 1"=2.5'

STA. 100+50.00 TO STA. 101+00.00

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	49
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT BRM-90021743			CONTRACT NO. 61B93	

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

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



BAXTER & WOODMAN
Consulting Engineers

DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08/07/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

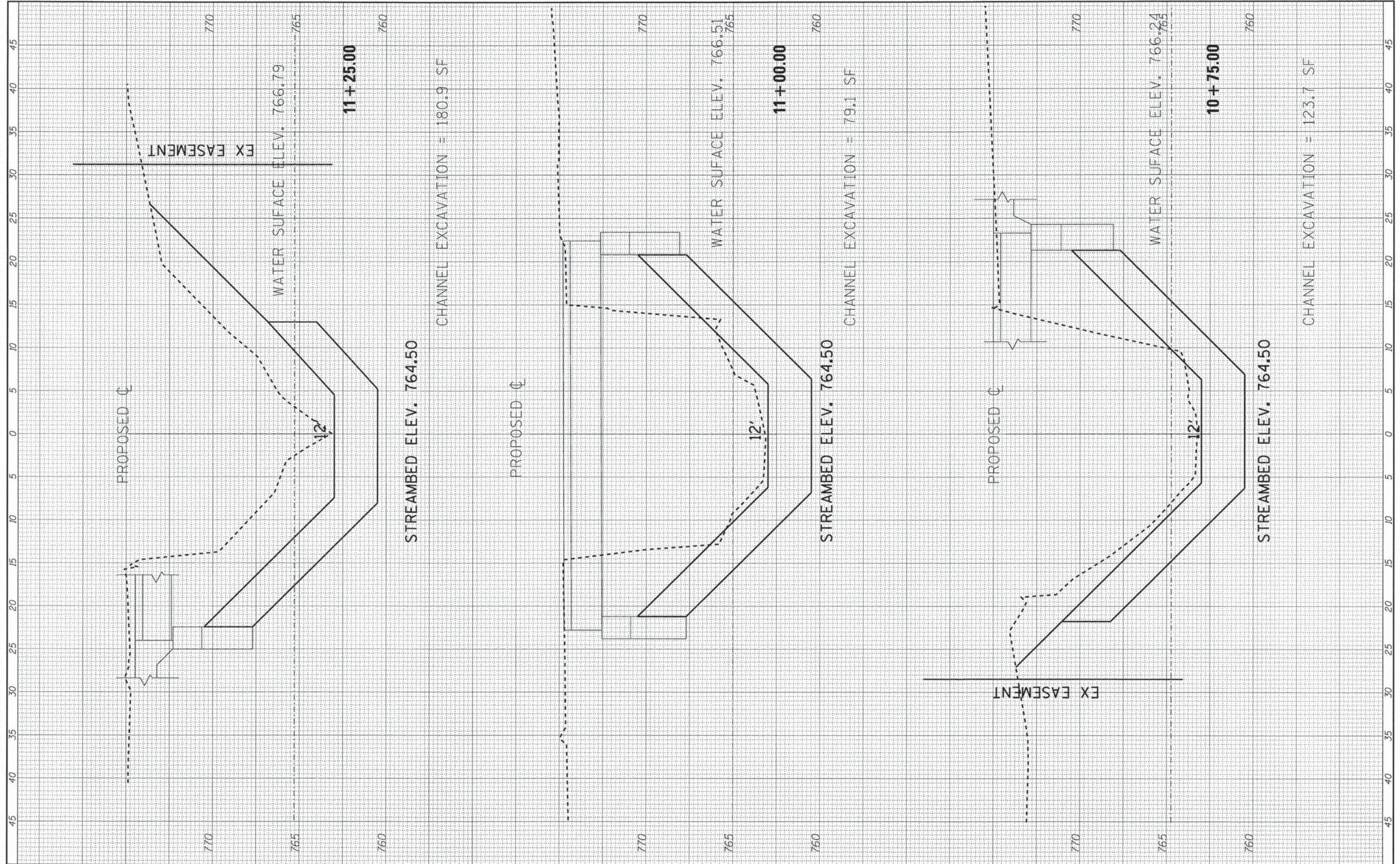
CROSS SECTIONS
SQUAW CREEK

SCALE: H: 1"=10'
V: 1"=5'
SHEET OF SHEETS STA. 10+00.00 TO STA. 10+50.00

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	50
CONTRACT NO. 61B93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-9002(743)				

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

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



BAXTER & WOODMAN
Consulting Engineers

DESIGNED - CAC	REVISIONS
DRAWN - BCD	REVISIONS
CHECKED - TAD	REVISIONS
DATE - 08/07/15	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

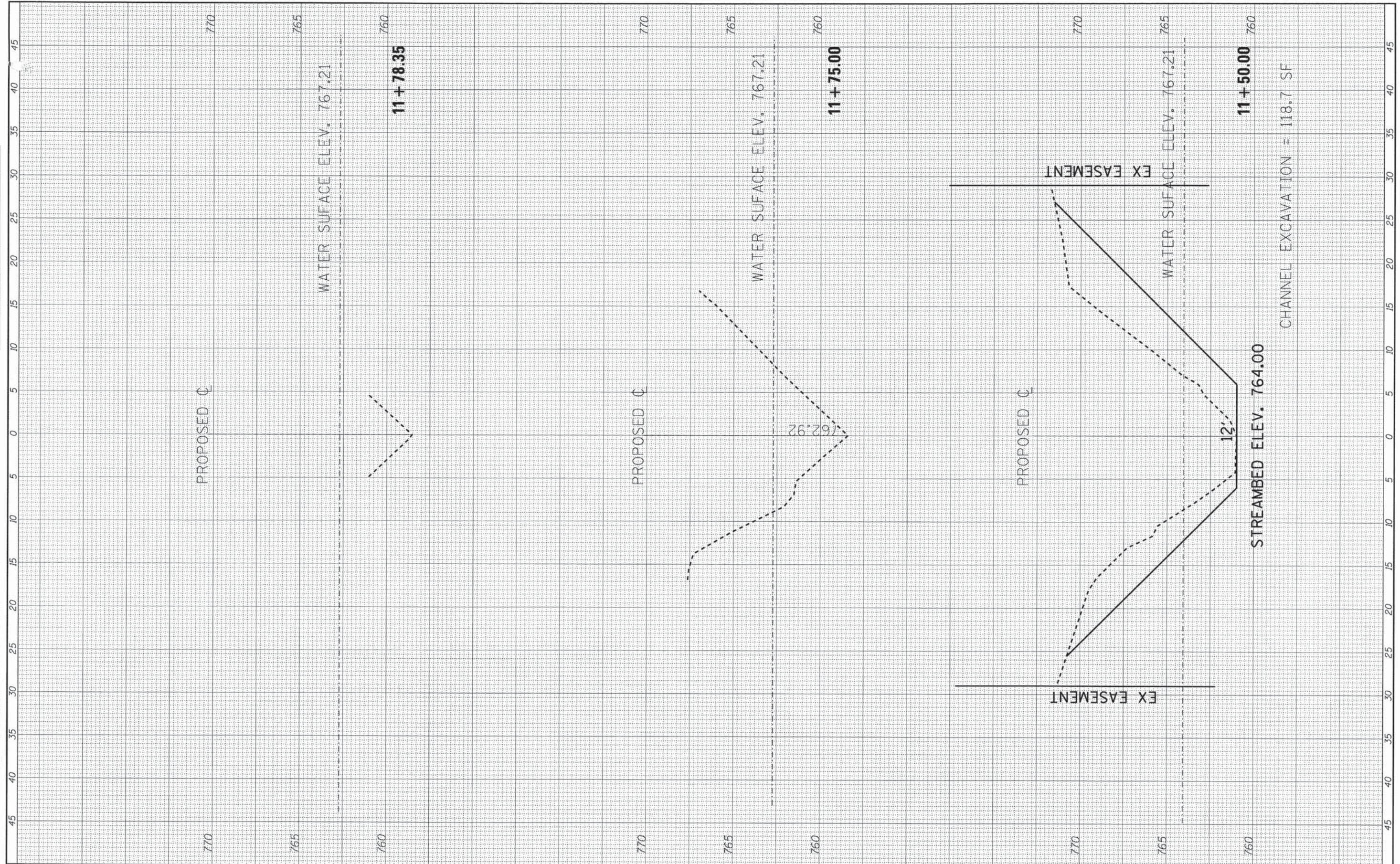
SCALE: H: 1"=10'
V: 1"=5'

CROSS SECTIONS
SQUAW CREEK

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	51
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-900217431			CONTRACT NO. 61B93	

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

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



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Consulting Engineers

DESIGNED - CAC	REVISED -
DRAWN - BCD	REVISED -
CHECKED - TAO	REVISED -
DATE - 08/07/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: V: 1"=5' SHEET OF SHEETS STA. 11+50.00 TO STA. 11+78.35

CROSS SECTIONS
SQUAW CREEK

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1013	11-00034-00-BR	LAKE	52	52
CONTRACT NO. 61893				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT BRM-90021743				