

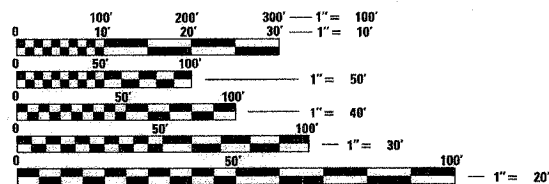
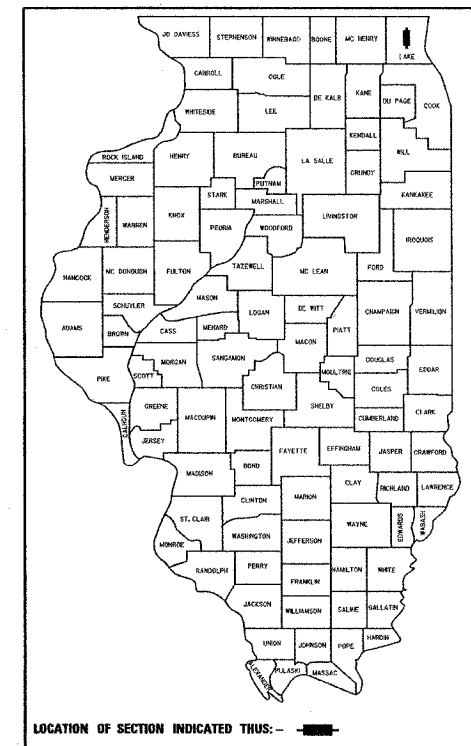
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	1
COVER SHEET				
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-8003(207)	

CONTRACT NO. 83837

INDEX OF SHEETS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAU ROUTE 2605 (MIDLOTHIAN ROAD CH 48)
AT
FAU ROUTE 1233 (WINCHESTER ROAD CH 69)
INTERSECTION IMPROVEMENT
SECTION 02-00170-09-CH
PROJECT CMM-8003 (209)
JOB NO. C-91-252-02
LAKE COUNTY

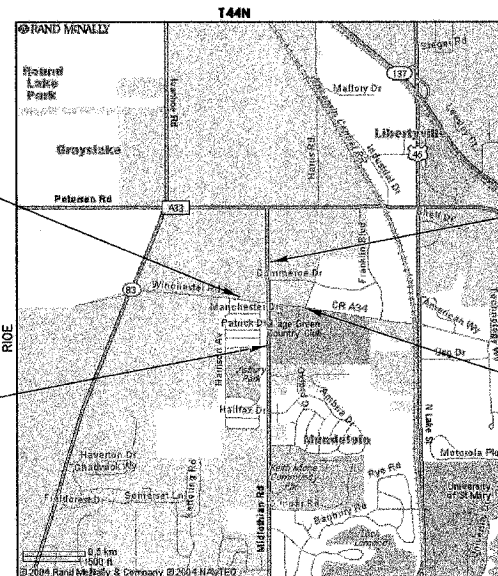


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

MIDLOTHIAN ROAD NORTH 1621 (26)	MAJOR COLLECTOR	0.63	(B-20) SPEED LIMIT 45 MPH
MIDLOTHIAN ROAD SOUTH 2423 (26)	MINOR ARTERIAL	1.16	(B-20) SPEED LIMIT 40 MPH
WINCHESTER ROAD EAST 1394 (26)	MINOR ARTERIAL	0.90	(B-20) SPEED LIMIT 45 MPH
WINCHESTER ROAD WEST 1123 (26)	MINOR ARTERIAL	0.92	(B-20) SPEED LIMIT 45 MPH

WINCHESTER ROAD
PROJECT BEGINS
STATION 31 + 50

MIDLOTHIAN ROAD
PROJECT BEGINS
STATION 78 + 22



MIDLOTHIAN ROAD
PROJECT ENDS
STATION 100 + 20

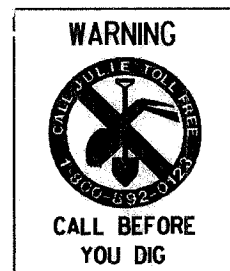
WINCHESTER ROAD
PROJECT ENDS
STATION 42 + 50



LOCATION MAP
SCALE 1" = 2350'

NET LENGTH OF IMPROVEMENT

MIDLOTHIAN ROAD	2198 FT	0.42 MILE
WINCHESTER ROAD	1100 FT	0.21 MILE
TOTAL	3298 FT	0.63 MILE



CONTRACT NO: 83837

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 10, 20 06

Mark A. Stott
COUNTY ENGINEER

Feb. 24, 20 06
LOCAL ROADS AND STREETS

Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

PLANS PREPARED BY:

HLR

Hampton Lenzini and Renwick, Inc.
Civil Engineers
Land Surveyors
380 Shepard Drive
Elgin, Illinois 60123-7010
847.697.6700

Account Number
3-07-0042

SIGNATURE: Mark A. Stott

DATE: JANUARY 10, 2006

ILLINOIS LICENSE NO: 38485

EXPIRATION DATE: NOVEMBER 30, 2007

FIELD: CIVIL



HAMPTON, LENZINI AND RENWICK, INC.
FEDERAL AID ENGINEER - JESSICA MILLER 847-705-4487

GENERAL NOTES

F.A.U. RTE. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEET 66	SHEET NO. 2
GENERAL NOTES AND LEGEND				
FEB. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				

GENERAL

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2002 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED MARCH 1, 2005; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," FIFTH EDITION; THE DETAILS IN THE PLANS; AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS AND SPECIFICATIONS SHALL BE INTERPRETED TO MEAN THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS REQUIRED BY THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS AND THE PLANS.

ALL WORK INVOLVING EXISTING SIGNS SHALL BE GOVERNED BY THE FOLLOWING:

- A) SIGNS SHALL NOT BE REMOVED UNTIL THE PROGRESS OF WORK NECESSITATES IT.
- B) EACH SIGN TO BE REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION APPROVED BY THE ENGINEER IN A WORKMANLIKE MANNER AND SHALL BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. ALL SUCH SIGNS SHALL BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.
- C) ALL SIGNS SHALL BE RE-ERECTED AT PERMANENT LOCATIONS AS THE COMPLETION OF THE ROADWAY IMPROVEMENTS PERMIT. LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- D) ALL UNUSED SIGNS SHALL BE STORED ON THE JOBSITE FOR PICKUP BY THE COUNTY.
- E) LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY LOCATIONS TO MAINTAIN PROPER SIGN HEIGHT. IN SUCH CASES, POSTS SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL MAILBOXES WHICH INTERFERE WITH OR BECOME INACCESSIBLE DUE TO CONSTRUCTION OPERATIONS, AS MANY TIMES AS NECESSARY, AND RESET THEM AT THEIR PERMANENT LOCATIONS AS SHOWN IN THE DETAIL IN THE PLANS OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL COOPERATE WITH THE DIVISION OF TRANSPORTATION IN ANY CONSTRUCTION THE DIVISION MAY WANT TO PLACE DURING THE CONTRACTOR'S OPERATIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION TO THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS REQUIRED BY THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER OR REPLACED. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION MEETING.

ALL ELEVATIONS SHOWN ON THE PLANS ARE U.S.G.S. DATUM.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATIONS.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE BACK OF CURB, UNLESS OTHERWISE NOTED. ELEVATIONS SHOWN AT POINTS OF CURVE, ETC. ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.

STRUCTURE LOCATIONS GIVEN ON THE PLANS ARE AS FOLLOWS:

- A) FOR STRUCTURES FALLING IN THE CURB & GUTTER - TO THE EDGE OF PAVEMENT.
- B) FOR OTHER LOCATIONS - TO THE CENTER OF THE STRUCTURE.
- C) FOR FLARED END SECTIONS - TO THE END OF THE END SECTION.

FLAT TOPS AND CONES ARE TO BE TURNED SO THAT THE FRAME IS CLOSEST TO THE CENTER LINE OF THE ROAD, UNLESS OTHERWISE NOTED ON THE STRUCTURE IN THE PLANS. ALL FLAT TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.

ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, EDGES OF PAVEMENT, ETC. ARE FROM THE CENTERLINE.

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS-SLOPE OF THE AREA IN WHICH THEY ARE LOCATED. THIS ADJUSTMENT SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.

CONSTRUCTION

ALL SUITABLE EXCESS MATERIAL FROM SEWER TRENCHES, SIDE ROADS, ENTRANCES AND OTHER EXCAVATIONS SHALL BE USED IN THE CONSTRUCTION OF THE ROADWAY. PLACEMENT AND COMPACTION OF THIS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM FLOWS NORMALLY ACCEPTED AND RELEASED BY THE EXISTING FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

THE COST OF INTERCONNECTIONS BETWEEN THE PROPOSED AND EXISTING SEWER SYSTEMS AND PROPOSED AND EXISTING WATER MAIN SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES OF THE PROPOSED UNITS OF WORK.

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT SHALL HAVE CAST INTO THE LID THE WORD "STORM," "SANITARY" OR "WATER," AS APPROPRIATE TO THE TYPE OF STRUCTURE INVOLVED.

TRENCH BACKFILL QUANTITIES HAVE BEEN COMPUTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PLAN INVERT DEPTH FROM SUBGRADE. ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED ABOVE, INCLUDING BEDDING MATERIAL, SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

ALL EXISTING DRAINAGE FACILITIES, HEADWALLS AND FENCES NO LONGER REQUIRED, IN THE OPINION OF THE ENGINEER, SHALL BE REMOVED. THE COST OF REMOVAL OF EXISTING PIPE CULVERTS, STORM SEWERS, DRAINAGE STRUCTURES, CONCRETE HEADWALLS, FENCING OR OTHER OBSTRUCTIONS WHICH INTERFERE WITH THE PROPOSED IMPROVEMENTS AND WHICH ARE NOT SHOWN TO BE REMOVED AS A SEPARATE PAY ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

WHEN SLOPES ARE TO BE WIDENED, STEPS SHALL BE CUT INTO THE EXISTING SLOPES IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS AT NO ADDITIONAL COST TO THE CONTRACT.

ANY OF THESE MATERIALS CONSIDERED SUITABLE FOR SALVAGE BY THE ENGINEER SHALL BE STORED WITHIN THE RIGHT-OF-WAY FOR LATER REMOVAL BY THE LAKE COUNTY DIVISION OF TRANSPORTATION. UNUSABLE MATERIALS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. TRENCH BACKFILL AND/OR PAVEMENT REPLACEMENT AND/OR AGGREGATE BASE COURSE TYPE A WILL BE PAID FOR WHEN THE WORK LIES UNDER EXISTING PAVEMENT AREAS.

AT LOCATIONS WHERE THE PROPOSED STORM SEWER CROSSES OVER A UTILITY, A FOUR-INCH STYROFOAM CUSHION SHALL BE PLACED BENEATH THE STORM SEWER WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING PLACED.

TRENCHES ACROSS PAVED SURFACES SHALL BE PATCHED WITH EITHER PERMANENT OR TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY. TEMPORARY PATCHING OF TRENCHES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ITEM PLACED IN THE TRENCH.

MISCELLANEOUS

THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJUTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ANY COST INCURRED BY THE CONTRACTOR TO MEET THIS REQUIREMENT THAT IS NOT COVERED BY A SPECIFIC PAY ITEM WILL BE INCLUDED IN THE COST OF THE CONTRACT.

SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED, UNLESS NOTED OTHERWISE. LONGITUDINAL FULL-DEPTH SAW CUTTING OF EXISTING PAVEMENT WILL BE PAID FOR SEPARATELY.

THE EXISTING BITUMINOUS SURFACE SHALL BE SAW CUT TO A DEPTH OF TWO INCHES AT ALL BUTT JOINTS.

WHERE NEW WORK IS PROPOSED TO MEET EXISTING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.

WHERE PROPOSED CURB AND/OR CURB AND GUTTER MEETS EXISTING, THE PROPOSED SHALL TRANSITION TO THE EXISTING IN A DISTANCE OF TEN FEET OR AS DIRECTED BY THE ENGINEER. THE TRANSITION LENGTH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM.

ADA COMPLIANT SIDEWALK RAMP FOR THE HANDICAPPED SHALL BE INSTALLED AT ALL INTERSECTIONS AND DRIVEWAYS IN ACCORDANCE WITH CURRENT LCDOT STANDARDS.

ANY SHEETING AND/OR SHORING USED ON THIS IMPROVEMENT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

PROTECTIVE COAT SHALL BE APPLIED TO ALL CURBS, GUTTERS AND P.C.C. PAVEMENTS, SIDEWALKS AND DRIVEWAYS.

ALL TYPE II BARRICADES SHALL BE WEIGHTED DOWN WITH TWO SANDBAGS EACH.

SEDIMENTATION AND EROSION CONTROL

SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL BE UTILIZED IN CONSIDERATION OF TIME OF YEAR, SITE CONDITIONS AND THE SUITABILITY OF TEMPORARY VERSUS PERMANENT MEASURES.

SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN FOURTEEN CALENDAR DAYS OF THE END OF THE ACTIVE HYDROLOGIC DISTURBANCE.

AREAS OR EMBANKMENTS HAVING SLOPES OF 3H:1V OR STEEPER SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.

ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL MEASURES.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED BY THE CONTRACTOR AS REQUIRED BY THE SPECIAL PROVISIONS.

A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

SOIL STOCKPILES SHALL NOT BE LOCATED IN FLOOD-PRONE AREAS OR DESIGNATED BUFFERS PROTECTING WATERS OF THE UNITED STATES.

IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH EFFECTIVE SEDIMENT CONTROL MEASURES (e.g., SEDIMENT TRAPS, SEDIMENT BASINS OR OTHER APPROPRIATE MEASURES).

THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

DRIVEWAYS OR ENTRANCES

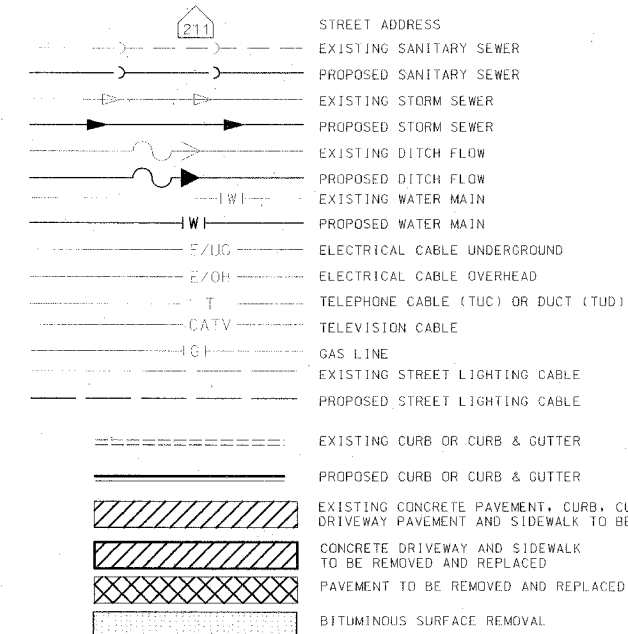
EXISTING BITUMINOUS, CONCRETE, AND GRAVEL DRIVEWAYS AND ENTRANCES SHALL BE SURFACED TO ONE FOOT INSIDE THE RIGHT-OF-WAY WITH BITUMINOUS CONCRETE SURFACE COURSE AS SCHEDULED IN THE PLANS.

EXISTING FIELD ENTRANCES SHALL BE BUILT UP IN PLACE TO THE RIGHT-OF-WAY WITH AGGREGATE BASE COURSE

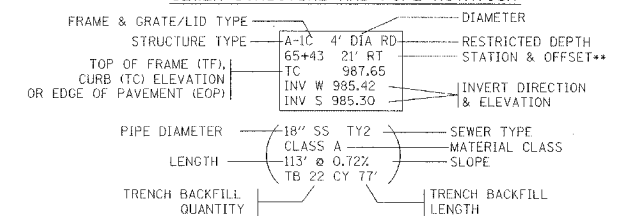
THE CONTRACTOR SHALL CONSTRUCT ALL COMMERCIAL AND PRIVATE DRIVEWAYS IN ACCORDANCE WITH THE DETAILS IN THE PLANS.

SUPPLEMENTAL LEGEND

SEE STANDARDS FOR ADDITIONAL INFORMATION

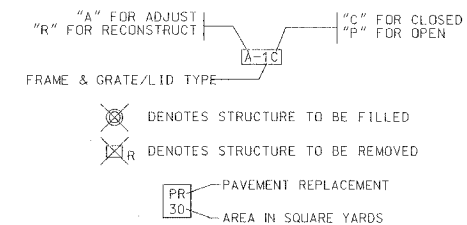


SEWER STRUCTURE AND PIPE NOTATION



- ** NOTE:
- OFFSET FOR STRUCTURES FALLING IN THE CURB LINE IS TO EDGE OF PAVEMENT
- OFFSET FOR ALL OTHER STRUCTURES IS TO CENTER OF STRUCTURE.

STRUCTURE ADJUSTMENT/RECONSTRUCTION/REMOVAL NOTATION



IDOT HIGHWAY STANDARDS IN CONTRACT

000001-01 (SHTS 8)	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-02 (SHTS 3)	TEMPORARY EROSION CONTROL SYSTEMS
424001-02 (SHTS 2)	CURB RAMPS
442201-02	CLASS C & D PATCHING
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542311 (2 SHTS)	GRATING FOR CONCRETE FLARED END SECTION, 24"-54" PIPE
602001	CATCH BASIN, TYPE A
602006	CATCH BASIN, TYPE B
602011	CATCH BASIN, TYPE C
602301-01	INLET, TYPE A
602401-01	MANHOLE, TYPE A
602406-02 (SHTS 2)	MANHOLE, TYPE A, 72" DIAMETER
602501	VALVE VAULT, TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT TOP SLAB
604001-02	FRAME AND LIDS, TYPE 1
604036-01	GRATE, TYPE 8
604091-01	FRAME AND GRATE, TYPE 24
606001-02 (SHTS 2)	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-01	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-02	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701011-01	OFF ROAD, MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS > 45 MPH
701206-01	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS > 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY FOR SPEEDS > 45 MPH
701311-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS > 45 MPH
701336-04	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS > 45 MPH
702001-06 (SHTS 3)	TRAFFIC CONTROL DEVICES
720016-01	MAST ARM MOUNTED STREET NAME SIGNS
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001	CONCRETE HANDHOLES
814006	DOUBLE HANDHOLE
857001 (2 SHTS)	STANDARD PHASE DESIGNATION DIAGRAMS AND SEQUENCES
877011-02	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
878001-04 (SHTS 2)	CONCRETE FOUNDATION DETAILS
880001	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006	TRAFFIC SIGNAL MOUNTING DETAILS

FLEXIBLE PAVEMENT DESIGN

DATE	=	OCTOBER 11, 2005
PROJECT	=	MIDLOTHIAN ROAD @ WINCHESTER ROAD
YEAR OF ADT	=	2005
ADT	=	12,029
DESIGN PERIOD IN YEARS	=	20
CONSTRUCTION YEAR	=	2006
STRUCTURAL DESIGN TRAFFIC (SDT)	=	15,883
PC	=	15208 (95.75%)
SU	=	437 (2.75%)
MU	=	238 (1.50%)
LOAD LIMIT (73,280 STANDARD) OR 80,000	=	73,280
CLASS ROAD (1,2,3,4)	=	II
SUBGRADE SUPPORT RATING	=	POOR
FLEXIBLE TRAFFIC FACTOR (TF)	=	1.16
SELECTED DESIGN AC TYPE	=	PG 64-22
DESIGN AC MIXTURE TEMPERATURE (DEGREES F)	=	76°
DESIGN BITUMINOUS CONCRETE MODULES	=	650
DESIGN AC MICROSTRAIN	=	103
PAVEMENT THICKNESS REQUIRED (INCHES)	=	9 1/2"
SUBGRADE	=	12"

LAKE COUNTY DOT STANDARDS

LC1005	TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DRAINAGE DITCH
LC1007	RESTRICTED DEPTH MANHOLE
LC4025A	TYPICAL MAJOR ACCESS (COMMERCIAL ENTRANCE)
LC4025B	TYPICAL MAJOR ACCESS (SIDE ROAD)
LC4026	TYPICAL SECTION BITUMINOUS BIKEPATH
LC6004	CURB AND GUTTER SUBGRADE OPTIONS
LC8005	TRANSITION FROM GRAVEL SHOULDER TO B-6.24 FOR 16' OFFSET TO FACE
LC6010	SUB SURFACE DRAINS
LC6013A&B	CURB RAMPS WITH TRAFFIC SIGNAL POSTS AND MAST ARMS
LC7001	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES, HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
LC7002	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES, HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE AND UTILITY OPERATIONS
LC7003	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
LC7004	MULTILANE TWO WAY TRAFFIC, UNDIVIDED OR MULTILANE TWO WAY TRAFFIC, DIVIDED WITH FLASH MEDIAN DAY OR NIGHT OPERATIONS
LC7006	DIRECTION INDICATOR BARRICADES
LC7007	TEMPORARY CONSTRUCTION INFORMATION SIGNS
LC7008	TWO LANE, TWO WAY, OFF ROAD OPERATIONS, DAY ONLY OPERATIONS
	TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
	SHORT TERM PAVEMENT MARKING

SUMMARY OF QUANTITIES

F.A.U. RTE. 2605 1233	SECTION 02-Q0170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 4
SUMMARY OF QUANTITIES				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				

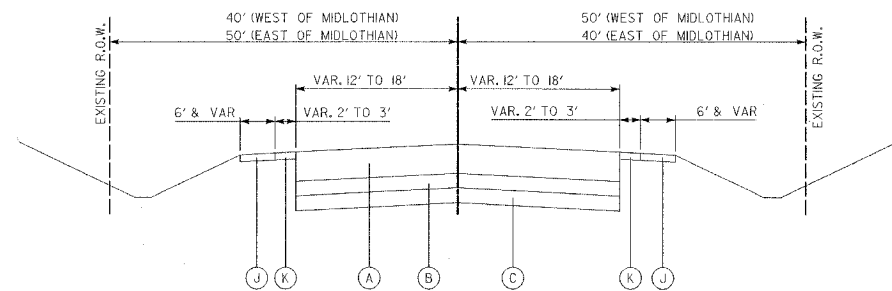
CODE #	ITEM	UNIT	CONSTRUCTION CODE		
			I000-2A	Y031-1F	
			TOTAL QUANTITY	80% FEDERAL 20% COUNTY	80% FEDERAL 20% COUNTY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	56	56	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	38	38	
20101100	TREE TRUNK PROTECTION	EACH	2	2	
20101200	TREE ROOT PRUNING	EACH	2	2	
20101700	SUPPLEMENTAL WATERING	UNIT	37	37	
20200410	EARTH EXCAVATION (SPECIAL)	CU YD	6173	6173	
20700300	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	1295	1295	
20800150	TRENCH BACKFILL	CU YD	312	312	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	11493	11493	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	18145	18145	
21301048	EXPLORATION TRENCH 48" DEPTH	FOOT	150	150	
* 25000210	SEEDING, CLASS 2A	ACRE	2.5	2.5	
* 25000350	SEEDING, CLASS 7	ACRE	3.7	3.7	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	302	302	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	302	302	
25100630	EROSION CONTROL BLANKET	SQ YD	12062	12062	
* 25200100	SODDING	SQ YD	6083	6083	
28000400	PERIMETER EROSION BARRIER	FOOT	1875	1875	
28100109	STONE RIPRAP, CLASS A5	SQ YD	64	64	
28200200	FILTER FABRIC	SQ YD	64	64	
35100100	AGGREGATE BASE COURSE, TYPE A	TON	558	558	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1697	1697	
40600300	AGGREGATE (PRIME COAT)	TON	68	68	
42001300	PROTECTIVE COAT	SQ YD	1577	1577	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1450	1450	
42400800	DETECTABLE WARNINGS	SQ FT	118	118	
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	4634	4634	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	50	50	
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	48	48	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	72	72	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	361	361	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	236	236	
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	16050	16050	
48100100	AGGREGATE SHOULDERS, TYPE A	TON	478	478	
50105210	REMOVE EXISTING CULVERTS	FOOT	329	329	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4	4	
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	2	2	
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	4	4	
54247180	GRATING FOR CONCRETE FLARED END SECTION 42"	EACH	2	2	
54248150	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 30"	EACH	4	4	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1342	1342	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	239	239	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	57	57	
550A0180	STORM SEWERS, CLASS A, TYPE 1 42"	FOOT	84	84	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	155	155	
55034500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 38, RISE 24	FOOT	239	239	
56400100	FIRE HYDRANTS TO BE MOVED	EACH	2	2	
60100905	PIPE DRAINS 4"	FOOT	150	150	
60100915	PIPE DRAINS 8"	FOOT	150	150	
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	13	13	
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60224500	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	3	3	
60224600	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6	6	
60225400	RESTRICTED DEPTH MANHOLES, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	
60225924	RESTRICTED DEPTH MANHOLES, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1	
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	10	10	
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	7	7	
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	4	4	
60261000	INLETS TO BE ADJUSTED WITH NEW TYPE 8 GRATE	EACH	2	2	
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	3	
60500060	REMOVING INLETS	EACH	2	2	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6-24	FOOT	4295	4295	
67100100	MOBILIZATION	L SUM	1	1	
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3833	3833	
* 70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	364	364	
* 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10564	10564	
* 70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	7864	7864	
* 70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1701	1701	
* 70300280	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1728	1728	
* 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	146	146	
* 70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	11311	11311	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	364	364	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10434	10434	
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	650	650	

CODE #	ITEM	UNIT	CONSTRUCTION CODE		
			I000-2A	Y031-1F	
			TOTAL QUANTITY	80% FEDERAL 20% COUNTY	80% FEDERAL 20% COUNTY
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1701	1701	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1728	1728	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	146	146	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	130	130	
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	5414	5414	
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	3404		3404
* 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	76		76
* 81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	68		68
* 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	95		95
* 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	215		215
* 81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	263		263
* 81400100	HANDHOLE	EACH	9		9
* 81400300	DOUBLE HANDHOLE	EACH	2		2
* 81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3643		3643
* 85000100	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	WEEK	4		4
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1362		1362
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2706		2706
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	862		862
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1627		1627
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	46		46
* 87704110	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	1		1
* 87704120	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH	1		1
* 87704150	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	1		1
* 87704170	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. (SPECIAL)	EACH	1		1
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52		52
* 87900200	DRILL EXISTING HANDHOLE	EACH	1		1
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8
* 88700200	LIGHT DETECTOR	EACH	2		2
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1
* A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1
* A2003816	TREE, FRAXINUS PENNSYLVANICA (GREEN ASH) 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2
* A2005116	TREE, JUGLANS NIGRA (BLACK WALNUT), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1
* A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1
* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1
* A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1
* X0300739	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1
* X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4335		4335
X0323260	SEDIMENT BASIN	EACH	1		1
X2800105	TEMPORARY DITCH CHECKS, URETHANE FOAM/GEOTEXTILE	EACH	90		90
X2800500	INLET PROTECTION, SPECIAL	EACH	28		28
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	1675		1675
X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	4037		4037
X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70	TON	307		307
X6013600	PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	6164		6164
X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	6		6
* X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1
* X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	4425		4425
* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	610		610
* X8730275	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C	FOOT	340		340
* X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4		4
* X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4
* X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4
* XX002179	ELECTRIC CABLE IN CONDUIT, COMMUNICATION #20 3/C	FOOT	75		75
* XX003553	VIDEO TRANSMISSION SYSTEM	EACH	1		1
* XX003661	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	75		75
* XX004679	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8
XX004878	MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS	L SUM	1		1
* XX005922	ELECTRIC CABLE IN CONDUIT COMMUNICATION NO 16 5-1/2 PAIR	FOOT	892		892
* XX005931	TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	4		4
* XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGNS	EACH	4		4
* XX005744	REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1		1
* XX005723	VIDEO DETECTION SYSTEM, (COMPLETE INTERSECTION)	EACH	1		1
XX006044	WOOD FENCE TO BE REMOVED AND REPLACED	FOOT	90		90
XX206400	MAIL BOX POST	EACH	1		1
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	500		500
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	8676		8676
Z0062400	SAWING BITUMINOUS CONCRETE PAVEMENT	FOOT	6301		6301
Z0076600	TRAINEES	FOOT	1000		1000
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4
* 85700225	FULL ACTUATED CONTROLLER, IN TYPE IV CABINET, (SPECIAL)	EACH	1		1
XX006523	FURNISH WITNESS POST	EACH	17		17
XX006025	INTERSECTION MONITOR MODULE	EACH	1		1
* XX006543	PEDESTRIAN PUSH-BUTTON, LED	EACH	8		8

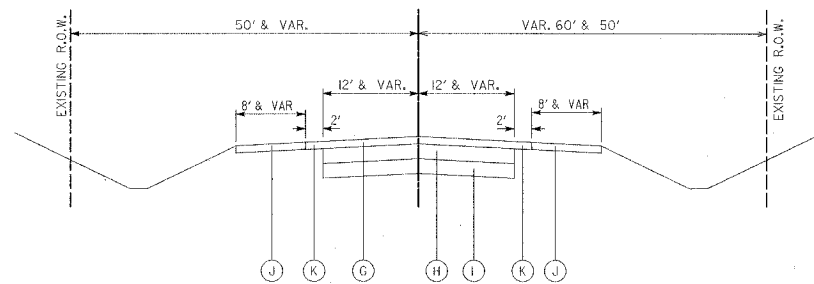
A 4080

* INDICATES SPECIALITY ITEM

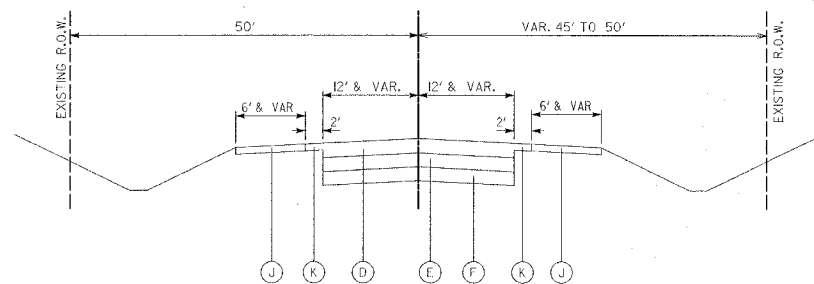
F.A.U. RTE. 1233	SECTION 02-0010-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 5
TYPICAL SECTIONS		PROJECT CMM-8003(207)		
FED. ROAD DIST. NO. 5		ILLINOIS		
CONTRACT NO. 83837				



EXISTING TYPICAL SECTION
WINCHESTER ROAD
STA 31+50.00 TO 42+50.00
NOT TO SCALE

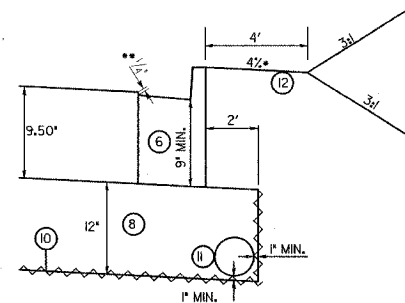


EXISTING TYPICAL SECTION
MIDLOTHIAN ROAD
STA 87+58.65 TO 100+20.00
NOT TO SCALE



EXISTING TYPICAL SECTION
MIDLOTHIAN ROAD
STA 78+22.00 TO 87+58.65
NOT TO SCALE

CURB & GUTTER / SHOULDER DETAIL



• SLOPES AWAY FROM ROAD IN FILL SECTIONS
• SLOPES TOWARD ROAD IN CUT SECTIONS

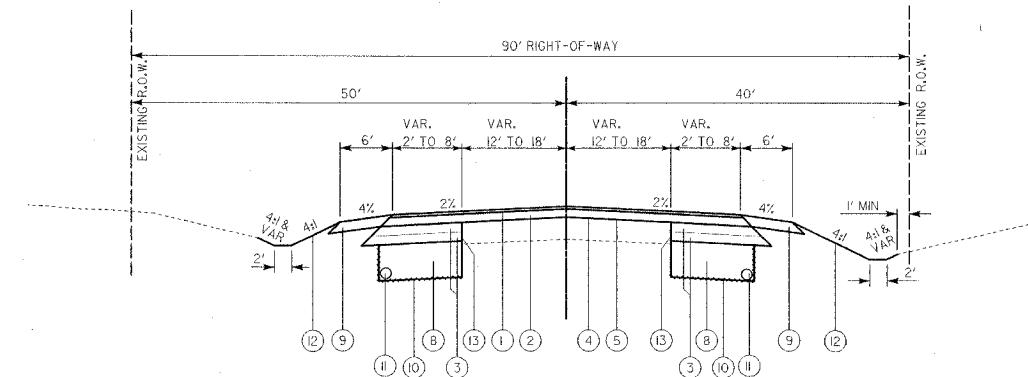
•• ELEVATIONS SHOWN ON THE CROSS SECTIONS
REPRESENT THE EDGE OF CURB FLAG AND
TOP OF CURB. THE EDGE OF PAVEMENT
WILL BE 1/4" HIGHER.

EXISTING TYPICAL SECTION LEGEND

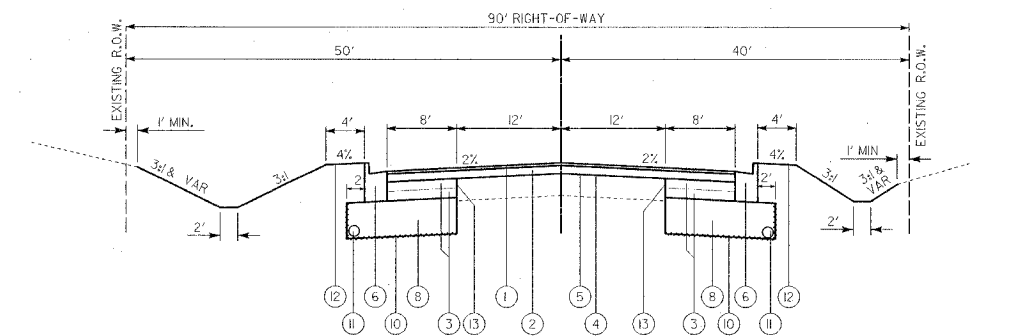
- (A) 1 1/2" BITUMINOUS PAVEMENT (BY RECORDS)
- (B) 7" AGGREGATE BASE (BY RECORDS)
- (C) 7" POZZOLANIC BASE (BY RECORDS)
- (D) 8" BITUMINOUS PAVEMENT (BY RECORDS)
- (E) 6" AGGREGATE BASE COURSE (BY RECORDS)
- (F) 6" POZZOLANIC BASE (BY RECORDS)
- (G) 3" CLASS 1 MATERIAL (BY RECORDS)
- (H) 8" BITUMINOUS BASE COURSE (BY RECORDS)
- (I) 9" AGGREGATE BASE COURSE, TYPE B (BY RECORDS)
- (J) AGGREGATE SHOULDERS
- (K) BITUMINOUS SHOULDER

PROPOSED TYPICAL SECTION LEGEND

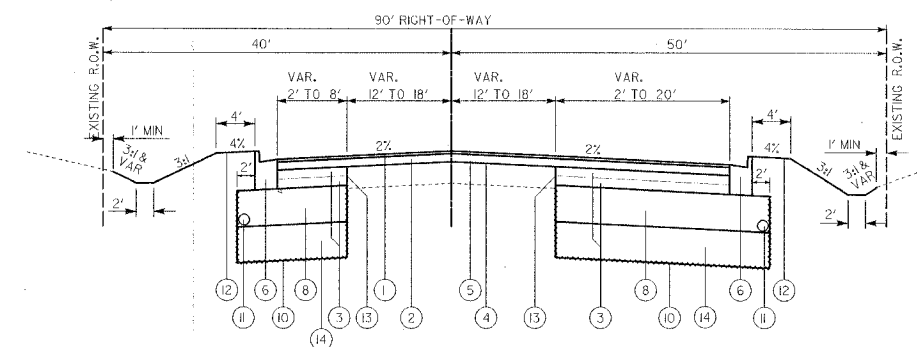
- (1) 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70
- (2) 2 1/4" BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70
- (3) 5 3/4" BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70 (2 LIFTS: 3", 2 3/4")
- (4) 3/4" LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70
- (5) AREA REFLECTIVE CRACK CONTROL TREATMENT (TO BE PLACED ON LEVELING BINDER)
- (6) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (7) 6" AGGREGATE BASE COURSE, TYPE A (SPECIAL)
- (8) 12" AGGREGATE SUBGRADE
- (9) 6" AGGREGATE SHOULDER, TYPE A
- (10) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (11) 4" PIPE UNDERDRAIN
- (12) TOPSOIL AND SODDING
- (13) SAWCUT
- (14) 12" REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL PAID FOR AS EARTH EXCAVATION, SPECIAL AND POROUS GRANULAR EMBANKMENT, SPECIAL WHERE SHOWN ON THE CROSS SECTIONS OR AS DETERMINED BY THE ENGINEER.
- (15) TOPSOIL AND SEEDING



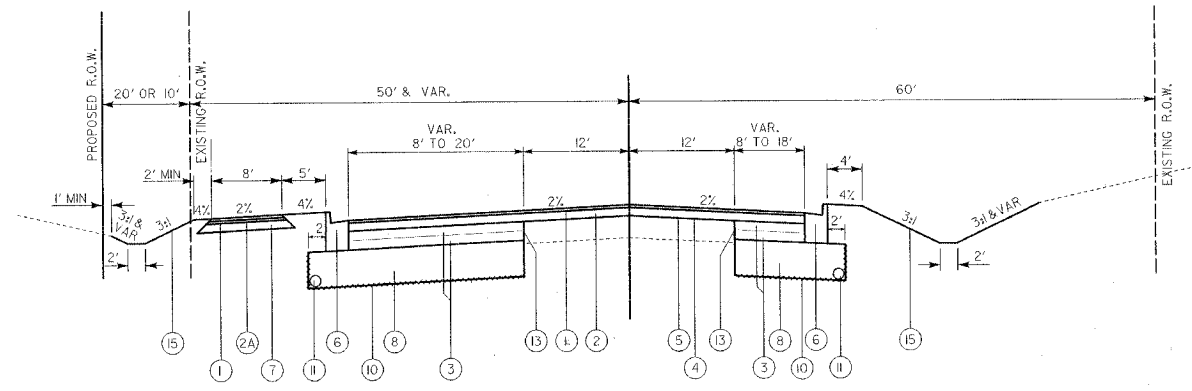
PROPOSED TYPICAL SECTION
WINCHESTER ROAD
STA 38+91.00 LT (39+56.00 RT) TO 42+50.00
NOT TO SCALE



PROPOSED TYPICAL SECTION
WINCHESTER ROAD
STA 36+19.64 TO 38+91.00 LT (39+56.00 RT)
NOT TO SCALE

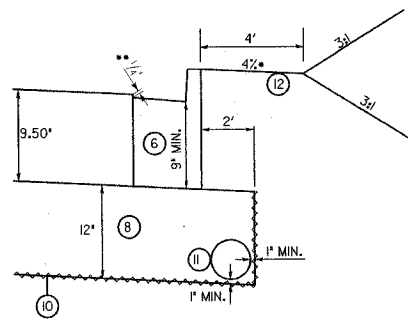


PROPOSED TYPICAL SECTION
WINCHESTER ROAD
STA 31+50.00 TO 36+19.64
NOT TO SCALE



PROPOSED TYPICAL SECTION
MIDLOTHIAN ROAD
STA 87+58.65 TO 96+00.00
NOT TO SCALE

CURB & GUTTER / SHOULDER DETAIL



*SLOPES AWAY FROM ROAD IN FILL SECTIONS
SLOPES TOWARD ROAD IN CUT SECTIONS

** ELEVATIONS SHOWN ON THE CROSS SECTIONS
REPRESENT THE EDGE OF CURB FLAG AND
TOP OF CURB. THE EDGE OF PAVEMENT
WILL BE 1/4" HIGHER.

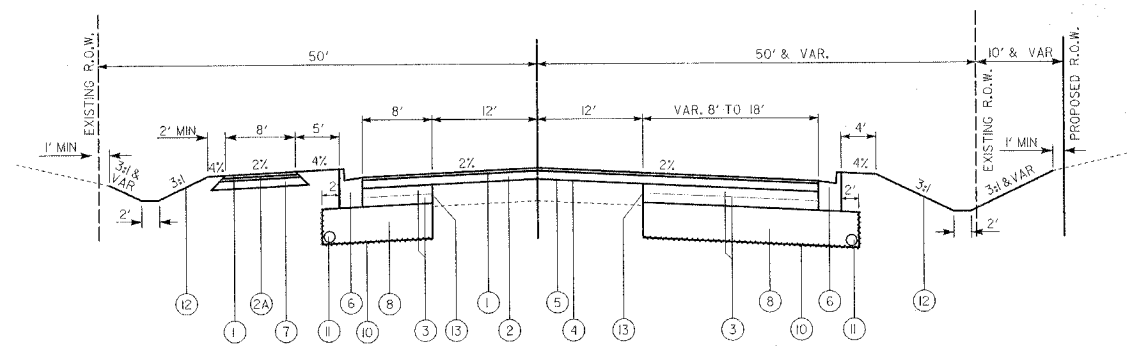
MIX REQUIREMENT CHART

CODE	ITEM	AC TYPE	VOIDS	MAX RAP %
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX 'D', N70	PG 64-22	4% @ 70 GYR.	10%
X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	PG 64-22	4% @ 70 GYR.	15%
X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70	PG 64-22	4% @ 70 GYR.	10%
44201781	CLASS D PATCHES, TYPE I, 10 INCH			
44201785	CLASS D PATCHES, TYPE II, 10 INCH	PG 64-22	4% @ 70 GYR.	15%
44201789	CLASS D PATCHES, TYPE III, 10 INCH			
44201771	CLASS D PATCHES, TYPE IV, 10 INCH			

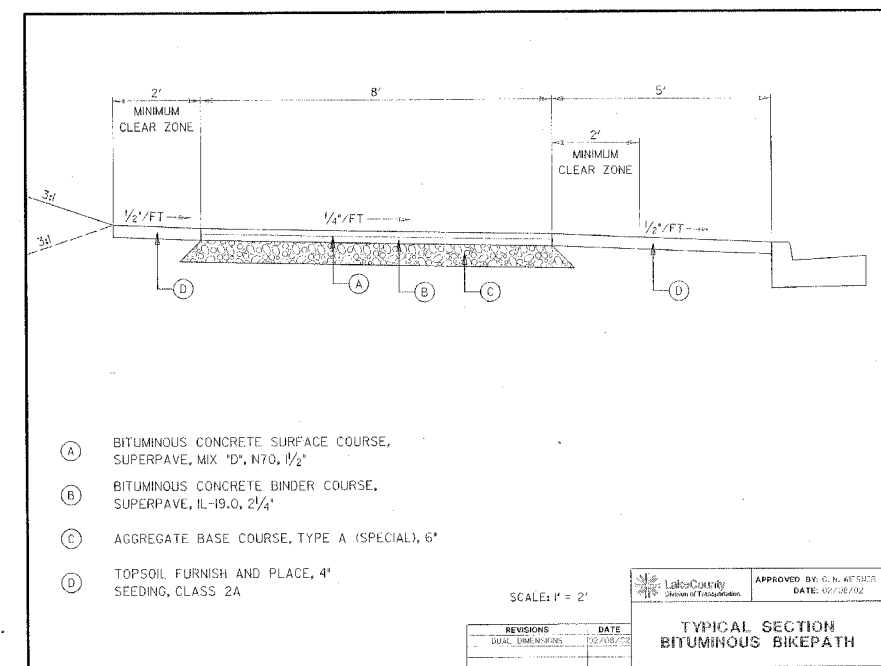
THE UNIT WEIGHT USED TO CALCULATE ALL SURFACE MIXTURES IS 112 POUNDS/SQUARE YARD/INCH.

PROPOSED TYPICAL SECTION LEGEND

- ① 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX 'D', N70
- ② 2 1/4" BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70
- ②A 2 1/4" BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70
- ③ 5 3/4" BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70 (2 LIFTS: 3", 2 3/4")
- ④ 3/4" LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70
- ⑤ AREA REFLECTIVE CRACK CONTROL TREATMENT (TO BE PLACED ON LEVELING BINDER)
- ⑥ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑦ 6" AGGREGATE BASE COURSE, TYPE A (SPECIAL)
- ⑧ 12" AGGREGATE SUBGRADE
- ⑨ 6" AGGREGATE SHOULDER, TYPE A
- ⑩ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑪ 4" PIPE UNDERDRAIN
- ⑫ TOPSOIL AND SODDING
- ⑬ SAWCUT
- ⑭ 12" REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL TO BE PAID FOR AS EARTH EXCAVATION, SPECIAL AND POROUS GRANULAR EMBANKMENT, SPECIAL WHERE SHOWN ON THE CROSS SECTIONS OR AS DETERMINED BY THE ENGINEER.
- ⑮ TOPSOIL AND SEEDING



PROPOSED TYPICAL SECTION
MIDLOTHIAN ROAD
STA 82+32.00 TO 87+58.65
NOT TO SCALE

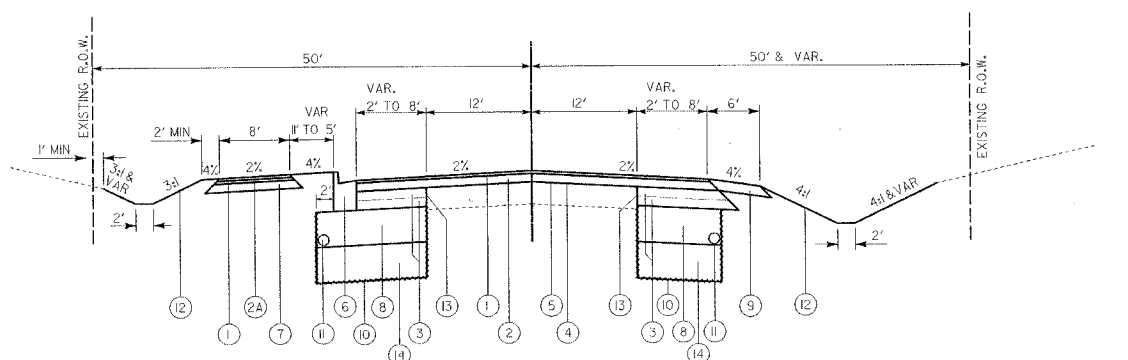


- ① BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX 'D', N70, 1/2"
- ② BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, 2 1/4"
- ③ AGGREGATE BASE COURSE, TYPE A (SPECIAL), 6"
- ④ TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A

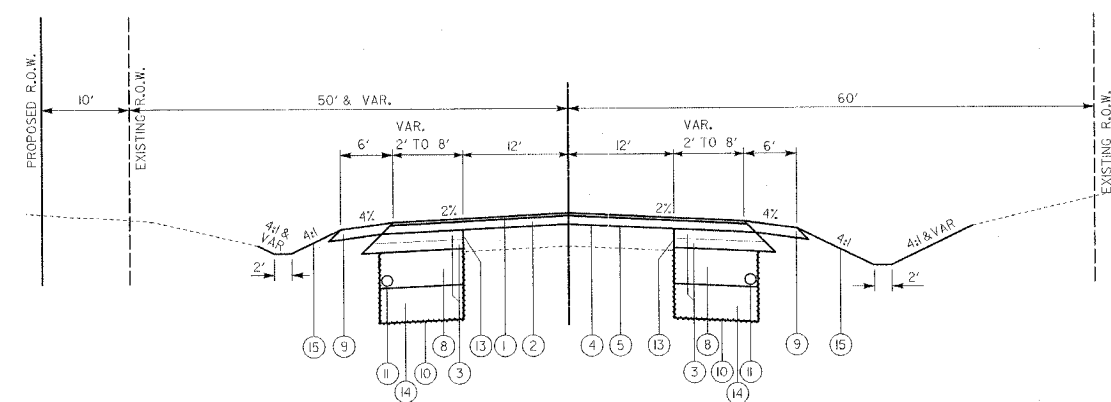
SCALE: 1" = 2'

APPROVED BY: C. H. REISER
DATE: 02/26/02

TYPICAL SECTION BITUMINOUS BIKEPATH



PROPOSED TYPICAL SECTION
MIDLOTHIAN ROAD
STA 78+22.00 TO 82+32.00
NOT TO SCALE



PROPOSED TYPICAL SECTION
MIDLOTHIAN ROAD
STA 96+00.00 TO 100+20.00
NOT TO SCALE

SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-0070-09-CH	LAKE	66	7
SCHEDULE OF QUANTITIES				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83637				

SCHEDULE NUMBER	INDEX OF SCHEDULES	ITEM OR ITEMS INCLUDED
1	TREE RELATED ITEMS	
2	EARTH EXCAVATION	
3	POROUS GRANULAR, EMBANKMENT, SPECIAL	
4	TOPSOIL, SODDING AND SEEDING	
5	EROSION CONTROL ITEMS	
6	STONE RIPRAP, CLASS A5 AND FILTER FABRIC FOR USE WITH RIPRAP	
7	AGGREGATE SUBGRADE, 12" AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	
8	BITUMINOUS MATERIALS (PRIME COAT) AND AGGREGATE (PRIME COAT)	
9	PROTECTIVE COAT	
10	BITUMINOUS SURFACE REMOVAL VARIABLE DEPTH	
11	COMBINATION CURB AND GUTTER REMOVAL	
12	CLASS D PATCHES	
13	AGGREGATE SHOULDER	
14	REMOVE EXISTING CULVERTS	
15	STORM SEWERS AND TRENCH BACKFILL	
16	FIRE HYDRANTS TO BE MOVED	
17	STORM SEWER STRUCTURES	
18	ADJUSTMENTS, RECONSTRUCTS AND REMOVALS	
19	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-8.24	
20	SHORT TERM PAVEMENT MARKING	
21	TEMPORARY PAVEMENT MARKING	
22	THERMOPLASTIC PAVEMENT MARKING	
23	PAINT PAVEMENT MARKING	
24	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MD "D", N70	
25	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70 AND AREA REFLECTIVE CRACK CONTROL	
26	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70	
27	WIDENING 5 3/4"	
28	ENTRANCES	
29	BICYCLE PATH QUANTITIES	
30	PIPE UNDERDRAINS 4" (MODIFIED)	
31	PORTLAND CEMENT CONCRETE SIDEWALK ACCESSIBILITY RAMP, TYPE B, 5 INCH AND DETECTABLE WARNINGS	
32	SAWING BITUMINOUS CONCRETE PAVEMENT	
33	WOOD FENCE TO BE REMOVED AND REPLACED	
34	PLAN ALLOWANCE ITEMS	

1	SCHEDULE OF TREE RELATED ITEMS												
STATION	OFFSET	REFERENCE	TREE TRUNK PROTECTION each	TREE ROOT PRUNING each	TREE REMOVAL SPECIES	TREE REMOVAL 0'-16" unit-dia.	TREE REMOVAL OVER 16" unit-dia.	CELTIS OCCIDENTALIS each	FRAXINUS PENNSYLVANICA each	JUGLANS NIGRA each	QUERCUS BICOLOR each	QUERCUS MACROCARPA each	QUERCUS RUBRA each
WINCHESTER ROAD													
32+71	38	RT			HICKORY		22						
32+82	38	RT			HICKORY	14							
32+97	39	RT			HICKORY	12							
MIDLOTHIAN ROAD													
82+42	49	RT	1	1									
82+83	49	RT	1	1									
86+18	51	RT			BOX ELDER		16						
86+23	49	RT			ELM	10							
86+30	55	RT					1						
86+50	50	RT			BOX ELDER	10							
86+52	55	RT								1			
86+67	50	RT			ELM	10							
86+75	55	RT								1			
86+00	50	RT									1		
90+00	50	RT							1				
90+50	50	RT										1	
91+00	50	RT											1
TOTAL													
			2	2		56	38	1	2	1	1	1	1

2	SCHEDULE OF EARTH EXCAVATION						
STATION	LENGTH (ft)	CUT CROSS SECTION AREA (sq ft)	CUT VOLUME (cu ft)	UNSUITABLE REMOVAL CROSS SECTION AREA (sq ft)	UNSUITABLE VOLUME (cu ft)	FILL CROSS SECTION AREA (sq ft)	FILL VOLUME (cu ft)
MIDLOTHIAN ROAD							
79+00.00	16.7					4.8	
79+00.00	50.0	41.7	1510.3	8.4	210.0	18.8	614.8
80+00.00	50.0	40.4	1351.8	10.1	462.5	27.4	1179.0
80+00.00	50.0	39.6	1869.7	12.3	562.0	38.9	1658.0
80+00.00	50.0	45.8	2134.3	14.9	875.0	36.2	1885.0
81+00.00	50.0	46.7	2313.8	18.8	782.5	43.6	2001.5
81+00.00	50.0	51.9	2465.5	18.0	895.0	50.7	2367.3
82+00.00	50.0	58.1	2748.8	20.4	985.0	53.9	2614.0
82+00.00	50.0	41.5	2488.0			62.7	2913.0
83+00.00	50.0	53.7	2378.9			40.9	2989.3
83+00.00	50.0	31.5	2129.9			46.2	2175.5
84+00.00	50.0	37.9	1474.5			38.2	2133.5
84+00.00	50.0	31.7	1480.3			33.1	1867.8
85+00.00	50.0	31.0	1568.0			33.9	1675.5
85+00.00	50.0	26.3	1433.3			42.8	1918.5
86+00.00	50.0	38.9	1424.8			45.9	2198.0
86+00.00	50.0	29.8	1509.3			67.7	2820.3
87+00.00	50.0	24.5	1358.3			84.3	3798.3
87+00.00	50.0	0.0	812.5			0.0	2107.8
88+00.00	50.0	29.9	822.5			83.9	2399.5
88+00.00	50.0	105.9	3259.8			34.4	2927.0
88+00.00	50.0	104.8	3356.8			19.6	1348.6
88+00.00	50.0	117.9	3599.5			11.7	781.0
89+00.00	50.0	105.2	3259.3			7.2	472.0
90+00.00	50.0	116.1	3664.8			15.7	872.8
91+00.00	50.0	98.8	3423.3			28.9	1140.0
91+00.00	50.0	74.5	4332.8			56.9	2171.5
92+00.00	50.0	52.9	3161.0			78.0	3332.8
92+00.00	50.0	45.2	2430.0			66.1	4301.5
93+00.00	50.0	40.5	2144.0			66.4	4561.3
93+00.00	50.0	29.0	1738.0			26.9	2831.8
94+00.00	50.0	27.9	1624.0			43.1	1750.0
94+00.00	50.0	63.6	3360.3			60.7	2594.3
95+00.00	50.0	64.4	3300.5			41.3	2549.3
95+00.00	50.0	56.9	3302.5			49.2	2187.0
96+00.00	50.0	75.6	3392.5	25.2	650.0	68.0	3354.8
96+00.00	50.0	50.2	3146.3	19.6	1020.0	54.8	3070.0
97+00.00	50.0	47.2	2436.3	19.5	760.0	42.4	2423.0
97+00.00	50.0	47.6	2311.0	15.6	780.0	37.8	2000.3
97+00.00	50.0	42.7	2251.3	14.1	742.5	27.2	1921.3
98+00.00	50.0	35.2	1946.0	11.8	647.5	29.7	1424.0
98+00.00	50.0	28.0	1579.0	9.6	535.0	31.5	1525.5
99+00.00	50.0	21.8	1245.5	7.4	425.0	16.7	1204.0
100+00.00	50.0	21.3	1018.3	6.2	315.0	18.1	748.5
100+00.00	50.0	27.7	1225.8			0.0	377.0
SUBTOTAL MIDLOTHIAN ROAD				11178.3	10448.0	91388.3	
WINCHESTER ROAD							
31+50.00	19.3					2.8	
32+00.00	50.0	59.5	1920.0	19.1	477.5	19.8	638.8
32+00.00	50.0	61.5	2968.0	23.8	1055.0	21.6	1010.0
33+00.00	50.0	75.1	3414.0	28.1	1290.0	27.8	1238.3
33+00.00	50.0	86.1	4009.8	32.8	1522.5	36.4	1680.3
34+00.00	50.0	99.6	4644.0	38.2	1820.0	23.1	1483.0
34+00.00	50.0	101.5	5027.3	48.6	2195.0	23.1	1158.8
35+00.00	50.0	112.2	5342.5	54.8	2665.0	28.2	1282.5
35+00.00	50.0	89.7	5048.3	77.7	3312.5	32.1	1508.0
36+00.00	50.0	0.0	2242.3			0.0	882.0
36+00.00	50.0	0.0	0.0			0.0	0.0
37+00.00	50.0	29.1	627.3			55.8	1365.8
37+00.00	50.0	27.7	1315.5			54.3	2733.3
38+00.00	50.0	32.8	1513.0			54.8	2738.8
38+00.00	50.0	32.3	1627.5			37.8	2312.3
38+00.00	50.0	36.2	1712.0			28.3	1654.5
39+00.00	50.0	35.5	1792.8			20.0	1209.3
40+00.00	50.0	29.8	1627.3			14.4	881.3
40+00.00	50.0	27.4	1404.8			8.2	688.8
41+00.00	50.0	26.9	1407.5			3.5	317.0
41+00.00	50.0	49.4	1955.0			4.2	192.8
42+00.00	50.0	51.8	2330.5			4.5	218.8
42+00.00	50.0	39.1	2271.3			0.7	130.3
SUBTOTAL WINCHESTER ROAD				54439.3	14247.5	24839.3	
ROADWAY CUBIC FEET				168618.6 CF	24887.5 CF	116329.6 CF	
ROADWAY CUBIC YARDS				6133 CY	914 CY	4308 CY	
ENTRANCE EXCAVATION 28+11				39 CY			
TOTAL CUBIC YARDS				6173 CY	914 CY	4308 CY	
BORROW EXCAVATION (+) OR EXCESS MATERIAL (-) 20% SHRINKAGE ASSUMED							
FILL REQUIRED				4308 x 1.2	=	5170 cy	
CUT LESS UNSUITABLE				6173 - 914	=	5259 cy	
BORROW / EXCESS				5170 - 5064	=	-106 cy	
EXCESS AND UNSUITABLE MATERIAL TO BE REMOVED FROM THE PROJECT SITE AND DISPOSED OFF SITE 914 + 106 = 1020 cy							

3	SCHEDULE OF POROUS GRANULAR EMBANKMENT, SPECIAL			
STATION	LENGTH	CROSS SECTION AREA (sq ft)	AVERAGE AREA	PGES VOLUME (cu ft)
WINCHESTER ROAD				
32+00	50	19.1		
32+00	50	23.5	21.3	1065
33+00	50	28.1	25.8	1290
33+50	50	32.8	30.5	1523
34+00	50	39.2	36.0	1807
34+50	50	45.6	43.9	2165
35+00	50	54.6	51.7	2585
35+50	50	77.7	66.3	3313
SUBTOTAL WINCHESTER				13771 / 27 = 510 cy 510 cy x 1.5 tcy = 765 TONS
MIDLOTHIAN ROAD				
79+00		8.4		
79+50	50	8.6	8.5	425
80+00	50	12.3	10.5	523
80+50	50	14.5	13.4	670
81+00	50	16.8	15.7	782
81+50	50	19.0	17.9	885
82+00	50	20.4	19.7	985
SUBTOTAL 79+00 - 82+00				4280 / 27 = 158cy 158cy x 1.5 tcy = 239 TONS
MIDLOTHIAN ROAD				
86+00	50	25.2		
86+50	50	15.6	20.4	1020
87+00	50	15.6	15.6	780
87+50	50	15.6	15.6	780
88+00	50	14.1	14.9	745
88+50	50	11.8	13.0	650
89+00	50	9.8	10.7	538
89+50	50	7.4	8.5	428
90+00	50	5.2	6.3	315
SUBTOTAL 86+00 - 100+50				5280 / 27 = 194cy 194cy x 1.5 tcy = 291 TONS
SUBTOTAL MIDLOTHIAN				530 TONS
TOTAL				1295 TONS

4	SCHEDULE OF TOPSOIL, SODDING AND SEEDING							
FROM STATION	TO STATION	REFERENCE	LENGTH (feet)	AVERAGE WIDTH (feet)	TOPSOIL AREA (sq yd)	SODDING AREA (sq yd)	SEEDING AREA (sq yd)	EROSION CONTROL BLANKET AREA (sq yd)
WINCHESTER ROAD								
31+70	32+00	RT	30	28	153	153		
31+70	33+17	LT	147	17	278		278	278
32+05	33+96	RT	190	21	443	443		
33+17	34+50	LT	133	27	390		390	390
33+95	35+80	RT	185	19	275	275		
34+50	35+80	LT	110	30	367		367	367
36+75	37+50	RT	75	19	125	125		
36+75	38+85	LT	210	27	630		630	630
37+50	39+50	RT	200	16	366	366		
38+85	42+50	LT	365	24	873		873	873
39+50	42+50	RT	300	14	467	467		
SUBTOTAL WINCHESTER					4466	1819	2647	2647
MIDLOTHIAN ROAD								
78+22	79+12	LT	90	23	230	230		
78+22	78+72	RT	50	31	172		172	172
78+72	79+12	LT	40	26	116	116		
79+12	81+82	LT	270	23	690	690		
79+12	81+82	RT	270	23	690		690	690
81+82								

SCHEDULE OF QUANTITIES

F.A.U. NO. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 8
SCHEDULE OF QUANTITIES				
FED. ROAD DIST. NO. 5		ILLINOIS	PROJECT CMM-8003(207)	
CONTRACT NO. 83837				

5 SCHEDULE OF EROSION CONTROL ITEMS							
FROM STATION	TO STATION	OFFSET	REFERENCE	PERIMETER EROSION BARRIER (feet)	INLET PROTECTION SPECIAL (each)	TEMPORARY DITCH CHECK (each)	TEMPORARY SEDIMENT TRAP (each)
WINCHESTER ROAD							
31+00	31+60		LT	80			
31+70	33+20		LT	150			
32+25		21.26	RT				
32+50			LT				
32+50			RT				
32+50		20.00	LT				
33+50			LT				
33+50			RT				
34+00		20.00	LT				
34+00		32.00	RT				
34+50			LT				
34+50			RT				
35+25			LT				
35+41		47.00	RT				
35+54		32.24	RT				
35+54		38.29	LT				
36+82		41+00	LT	515			
37+65		40.00	LT				
38+00			RT				
38+75		20.00	RT				
39+00			RT				
40+00			RT				
41+00			LT				
42+00			RT				
42+00			LT				
43+00			LT				
43+00			RT				
SUBTOTAL WINCHESTER				725	8	32	
MIDLOTHIAN ROAD							
78+00			LT				2
78+00			RT				2
79+00			LT				2
79+00			RT				2
80+00			LT				2
80+00			RT				2
80+00		15.96	LT				1
81+00			LT				2
81+00			RT				2
83+00			LT				2
84+00			RT				2
85+00		20.00	LT				1
85+00		30.00	RT				1
85+00			RT				2
85+40		38.00	RT				1
86+50			RT				2
86+80		21.81	LT				1
89+80		30.07	RT				1
89+80		38.00	RT				1
89+32		80.00	LT				1
89+34		36.08	RT				1
89+42		33.80	RT				1
89+43		74.00	LT				1
89+96		32.00	LT				1
89+00		93+35	RT	430			
89+06		32.00	LT				1
89+50			LT				2
89+50			RT				2
90+30		28.21	LT				1
90+30		20.68	RT				1
90+50			LT				2
90+50			RT				2
91+00			LT				2
91+00			RT				2
91+50		20.00	LT				1
91+50		27.53	RT				1
92+50			LT				2
93+32		56.16	RT				1
93+84		56.16	RT				1
93+66		20.00	LT				1
84+00		100+50	RT	720			
94+50			LT				2
95+78			LT				2
95+99			LT				2
96+00			RT				2
97+00			LT				2
97+00			RT				2
98+00			LT				2
98+00			RT				2
99+00			LT				2
100+00			RT				2
SUBTOTAL MIDLOTHIAN				1150	20	58	0
TOTAL				1875	28	90	1

6 SCHEDULE OF STONE RIPRAP, CLASS A5 AND FILTER FABRIC FOR USE WITH RIPRAP					
LOCATION	REFERENCE	LENGTH (feet)	WIDTH (feet)	RIPPRAP AREA (sq. yd.)	FILTER FABRIC AREA (sq. yd.)
WINCHESTER ROAD					
38+50	RT	10	7.2	8.0	8.0
SUBTOTAL WINCHESTER				8.0	8.0
MIDLOTHIAN ROAD					
88+36	RT	18.8	22.0	46.0	46.0
85+82	RT	10.0	9.0	10.0	10.0
SUBTOTAL MIDLOTHIAN				66.0	66.0
TOTAL				64.0	64.0

8 SCHEDULE OF BITUMINOUS MATERIALS (PRIME COAT) AND AGGREGATE (PRIME COAT)										
FROM STATION	TO STATION	REFERENCE	LENGTH	AVERAGE WIDTH	AREA (sq ft)	BITUMINOUS MATERIALS (PRIME COAT) QUANTITY 0.41 GAL/SY	AGGREGATE (PRIME COAT) QUANTITY 0.004 T/SY			
WINCHESTER ROAD										
31+50	32+05	LT	55	20	122.2	12.2	0.6			
31+50	32+05	RT	55	20	122.2	12.2	0.6			
32+05	34+48	LT	244	20	542.2	54.2	2.2			
32+05	33+95	RT	190	26	548.9	54.9	2.2			
33+65	35+49	RT	184	32	654.2	65.4	2.6			
34+48	35+49	LT	100	29	522.2	52.2	1.9			
37+00	37+12	LT	12	22	29.3	2.9	0.1			
37+00	37+47	RT	47	23.5	122.7	12.3	0.5			
37+12	42+00	LT	488	20	1084.4	108.4	4.3			
37+47	42+00	RT	463	20	1056.7	105.7	4.0			
42+00	42+50	LT	50	20.2	112.2	11.2	0.4			
42+00	42+50	RT	50	20.8	115.6	11.6	0.5			
SUBTOTAL WINCHESTER							478.3	19.1		
MIDLOTHIAN ROAD										
78+22	78+12	LT	90	14	140.0	14.0	0.6			
78+22	78+12	RT	90	14	140.0	14.0	0.6			
78+12	81+82	LT	270	17	510.0	51.0	2.0			
79+12	81+82	RT	270	17	510.0	51.0	2.0			
81+82	86+47	LT	465	20	1033.3	103.3	4.1			
81+82	82+32	RT	50	20	111.1	11.1	0.4			
82+32	84+22	RT	190	25	527.8	52.8	2.1			
84+22	86+78	RT	256	30	853.3	85.3	3.4			
86+47	89+50	LT	203	-	1002.4	100.2	4.0			
86+78	88+50	RT	172	-	1042.6	104.3	4.2			
88+50	89+70	LT	120	32	426.7	42.7	1.7			
88+50	89+47	RT	97	26	289.2	28.9	1.1			
89+47	90+17	RT	70	20	156.6	15.6	0.6			
89+70	91+60	LT	190	28	548.9	54.9	2.2			
90+17	92+07	RT	190	25	527.8	52.8	2.1			
91+60	97+65	LT	605	20	1344.4	134.4	5.4			
92+07	92+50	RT	76	30	253.3	25.3	1.0			
92+88	94+07	RT	124	-	630.6	63.1	3.3			
94+07	94+93	RT	86	28.5	272.3	27.2	1.1			
94+93	97+65	RT	272	20	604.4	60.4	2.4			
97+65	100+50	LT	285	17	538.3	53.8	2.2			
97+65	100+50	RT	285	17	538.3	53.8	2.2			
SUBTOTAL MIDLOTHIAN							1219.0	48.7		
TOTAL							1697.3	67.8		

9 SCHEDULE OF PROTECTIVE COAT				
ITEM	QUANTITY	UNIT	FACTOR/UNIT	PROTECTIVE COAT QUANTITY (sq. yd.)
B-6.24 CURB & GUTTER	4296	FOOT	0.39 SQ YD/FT	1417.4
PORTLAND CEMENT CONCRETE SIDEWALK ACCESSIBILITY RAMPS, TYPE B, 5 INCH	1450	SQ FT	0.11 SQ YD/SQ FT	159.5
TOTAL				1576.9

10 SCHEDULE OF BITUMINOUS SURFACE REMOVAL VARIABLE DEPTH						
FROM STATION	TO STATION	REFERENCE	LENGTH (feet)	AVERAGE WIDTH (feet)	AREA (sq yd)	
WINCHESTER ROAD						
31+50	34+50	LT & RT	300	35	1167	
38+76	39+75	LT & RT	100	31.5	366	
41+00	42+50	LT & RT	150	39	656	
SUBTOTAL WINCHESTER						2167
MIDLOTHIAN ROAD						
78+22	79+40	LT & RT	118	28	307	
83+76	85+50	LT & RT	174	28	544	
94+00	97+00	RT	300	14	407	
97+00	100+50	LT & RT	350	28	1066	
SUBTOTAL MIDLOTHIAN						2467
TOTAL						4634

11 SCHEDULE OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL			
STATION	REFERENCE	LENGTH (feet)	
MIDLOTHIAN ROAD			
83+40	RT	25	
83+78	RT	25	
TOTAL MIDLOTHIAN			50

7 SCHEDULE OF AGGREGATE SUBGRADE, 12" AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION									
FROM STATION	TO STATION	REFERENCE	LENGTH (feet)	AVERAGE WIDTH (feet)	AGGREGATE SUBGRADE AREA (sq yd)	LENGTH AT 1' DEEP ON EACH SIDE	LENGTH AT 2' DEEP ON EACH SIDE	GEOTECHNICAL FABRIC AREA (sq yd)	
WINCHESTER ROAD									
31+80	34+49	LT	269	8.0	291.1	20	249		354.2
32+00	33+95	RT	195	13.5	292.5	-	195		376.2
33+95	34+49	RT	154	23.5	421.5	-	154		470.5
34+49	35+49	LT	100	21.5	238.9	-	100		283.3
37+00	39+00	LT	200	9.5	211.1	200	-		256.9
37+00	39+50	RT	250	9.0	250.0	250	-		305.5
39+00	42+50	LT	350	4.0	155.6	350	-		233.4
39+50	42+50	RT	300	2.6	83.3	300	-		150.0
SUBTOTAL WINCHESTER						1872.6			2431.6
MIDLOTHIAN ROAD									
78+22	78+12	LT	90	3.5	19.4	90	-		30.6
78+22	78+12	RT	90	3.5	35.0	78	12		57.7
78+12	79+12	LT	40	8.0	36.6	28	12		47.2
79+12	81+82	LT	270	8.5	256.0	-	270		376.0
79+12	81+82	RT	270	5.5	165.0	-	270		285.0
81+82	86+47	LT	465	19.2	895.8	18	447		844.5
81+12	82+32	RT	50	9.5	52.8	32	18		67.9
82+32	84+22	RT	190	17.5	369.4	190	-		411.6
84+22	86+78	RT	256	22.5	640.0	256	-		996.9
86+47	89+50	LT	203	-	491.8	203	-		539.9
86+78	88+50	RT	172	-	523.2	172	-		561.4
88+50	89+70	LT	120	24.7	329.3	120	-		396.0
88+50	89+47	RT	97	18.5	199.4	97	-		221.0
89+47	90+17	RT	70	12.5	97.2	70	-		112.8
89+70	91+60	LT	190	19.5	390.6	190	-		432.8
90+17	92+07	RT	190	17.5	369.4	190	-		411.6
91+60	97+65	LT	440	12.5	611.1	440	-		706.9
92+07	92+50	RT	76	22.5	180.0	76	-		266.9
92+88	94+07	RT	124	-	333.8	124	-		361.4
94+07	94+93	RT	86	21.0	200.7	86	-		271.1
94+93	97+65	RT	107	12.5	146.6	107	-		172.4

SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	9
SCHEDULE OF QUANTITIES				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				

13 SCHEDULE OF AGGREGATE SHOULDERS						
FROM STATION	TO STATION	REFERENCE	LENGTH	AVERAGE WIDTH	AREA (sq yd)	QUANTITY AT 0.38 TBSY (tons)
WINCHESTER ROAD						
31+50	32+00	RT	50	5	27.8	6.7
38+90	42+50	LT	360	6	240.0	64.3
39+55	42+50	RT	295	6	195.7	68.9
SUBTOTAL WINCHESTER						162.8
MIDLOTHIAN ROAD						
78+22	78+67	LT	45	6	30.0	10.9
78+22	82+27	RT	405	6	270.0	94.5
96+05	100+35	LT	430	6	286.7	100.3
96+05	100+35	RT	430	6	286.7	100.3
100+35	100+50	LT	15	6	13.3	4.9
100+35	100+50	RT	15	6	13.3	4.7
SUBTOTAL MIDLOTHIAN						315.0
TOTAL						477.8

14 SCHEDULE OF REMOVE EXISTING CULVERTS					
FROM STATION	TO STATION	REFERENCE	SIZE OF CULVERT	LENGTH TO BE REMOVED (feet)	
WINCHESTER ROAD					
40+35	40+61	LT	15"	26	
SUBTOTAL WINCHESTER					26
MIDLOTHIAN ROAD					
82+93	86+43	RT	12"	50	
85+50	85+85	RT	12"	35	
86+91		LT & RT	24"	53	
88+30		LT & RT	24"	48	
85+82		LT & RT	42"	79	
88+06	88+27	RT	10"	22	
89+83	90+83	LT	15"	33	
SUBTOTAL MIDLOTHIAN					303
TOTAL					329

17 SCHEDULE OF STORM SEWER STRUCTURES															
STATION	OFFSET	REFERENCE	MANHOLE TYPE A 4' DIAMETER RESTRICTED DEPTH	MANHOLE TYPE A 4' DIAMETER RESTRICTED DEPTH	MANHOLE TYPE A 4' DIAMETER TYPE 1 FRAME OPEN LID (each)	MANHOLE TYPE A 5' DIAMETER RESTRICTED DEPTH	MANHOLE TYPE A 5' DIAMETER RESTRICTED DEPTH	MANHOLE TYPE A 4' DIAMETER TYPE 24 FRAME & GRATE (each)	CATCH BASIN TYPE C TYPE 24 FRAME & GRATE (each)	IN-LET TYPE A TYPE 24 FRAME & GRATE (each)	12" FLARED END SECTION (each)	30" EQUIVALENT FLARED END SECTION (each)	42" FLARED END SECTION (each)	GRATING FOR FLARED END SECTIONS 30" EQUIVALENT (each)	GRATING FOR FLARED END SECTIONS 42" (each)
WINCHESTER ROAD															
32+25		RT													
32+50		LT							1						
32+50		LT													
34+00		RT			1										
34+00		LT													
34+00		LT													
34+00		LT			1										
35+41		RT													
35+54		RT													
35+54		LT													
35+80		RT													
38+75		RT													
39+40		RT													
38+48		RT													
MIDLOTHIAN ROAD															
80+00		LT													
80+00		LT													
85+00		LT													
85+00		RT													
85+43		RT			1										
86+80		LT													
86+80		RT													
86+80		RT			1										
87+33		RT													
88+28		RT													
88+32		LT													
88+34		LT													
88+34		RT													
88+34		RT													
88+37		LT													
88+42		RT													
88+43		LT													
88+95		LT													
88+98		LT													
89+08		LT													
89+70		LT													
90+27		LT													
90+30		LT													
90+30		RT													
90+30		RT													
91+57		LT													
91+57		LT													
91+60		LT													
91+60		RT													
92+08		RT													
93+32		RT													
93+83		LT													
93+84		RT													
95+82		LT													
95+82		RT													
TOTALS					3	6	1	3	1	13	1	10	4	4	2

15 SCHEDULE OF STORM SEWER AND TRENCH BACKFILL										
FROM STATION	REFERENCE	TO STATION	REFERENCE	TRENCH BACKFILL (cu yd)	TYPE 1 CLASS A 12" (feet)	TYPE 1 CLASS A 15" (feet)	TYPE 1 CLASS A 24" (feet)	TYPE 1 RCP 30" EQ (feet)	TYPE 1 CLASS A 42" (feet)	TYPE 2 CLASS A 12" (feet)
WINCHESTER ROAD										
32+25	RT	32+50	LT	6.3	48					
32+50	LT	32+50	LT	2.0						
32+50	LT	34+00	LT							150
34+00	RT	34+00	LT	7.1	54					
34+00	LT	34+00	LT	0.5	5					
35+41	RT	35+54	RT	0.4	20					
35+54	RT	35+54	LT	9.1		75				
35+54	RT	35+80	RT	3.3	25					
35+54	LT	88+34	LT	7.3		26				
87+31	RT	38+75	RT	28.7	203					
38+75	RT	39+40	RT	6.6	63					
39+40	RT	39+48	RT	4						
SUBTOTAL WINCHESTER				69.1	421	101				155
MIDLOTHIAN ROAD										
80+00	LT	80+00	LT	1.8	25					
85+00	LT	85+00	RT	9	52					
85+00	RT	85+42	RT	9	45					
85+43	RT	86+80	RT	6	136					
86+80	LT	86+80	RT	12	56					
86+80	RT	86+80	RT	0.7	8					
86+80	RT	87+33	RT	7.8	52					
88+28	RT	88+34	LT	21.4				103		
88+34	LT	88+34	LT	15						
88+34	RT	88+34	RT	0.5						16
88+34	RT	88+37	LT	6.8						75
88+37	LT	88+43	LT	3.9						30
88+34	RT	88+42	RT	0.9						
88+37	LT	88+95	LT	15				57		
88+95	LT	88+98	LT	1.5						6
88+95	LT	89+70	LT	16						75
89+68	LT	89+68	LT	1.3						10
89+70	LT	90+27	LT	17.4						57
90+27	LT	91+57	LT	22.3						115
90+27	LT	90+30	LT	0.8						0
90+30	LT	90+30	RT	6.5						49
91+57	LT	93+83	LT	43.8						226
91+57	LT	91+60	LT	2						6
91+60	LT	91+60	RT	6.3						48
93+68	RT	93+32	RT	0.6						18
93+32	RT	93+84	RT	7.4						56
93+83	LT	93+86	LT	0.9						6
95+82	LT	95+82	RT	18						84
SUBTOTAL MIDLOTHIAN				242.6	921	138	57	239	84	155
TOTAL				311.7	1342	239	57	239	84	155

16 SCHEDULE OF FIRE HYDRANTS TO BE MOVED					
EXISTING STATION	EXISTING OFFSET	PROPOSED STATION	PROPOSED OFFSET	FIRE HYDRANTS TO BE MOVED (each)	
WINCHESTER ROAD					
33+42	40' RT	33+42	48' RT	1	
MIDLOTHIAN ROAD					
86+50	40' RT	86+50	58' RT	1	
TOTALS					2

18 SCHEDULE OF ADJUSTMENTS, RECONSTRUCTS AND REMOVALS							
STATION	OFFSET	REFERENCE	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME CLOSED LID (each)	INLET TO BE ADJUSTED WITH NEW TYPE 8 (each)	VALVE VAULT TO BE ADJUSTED WITH NEW TYPE 1 FRAME CLOSED LID (each)	MANHOLE TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME CLOSED LID (each)	REMOVING INLETS (each)
WINCHESTER ROAD							
31+87	26.00	LT	1				
33+59	31.00	LT	1				
35+20	30.00	RT	1				
37+54	30.00	RT	1				
38+08	32.00	LT	1				
40+95	32.00	RT		1			
41+48	32.00	LT		1			
MIDLOTHIAN ROAD							
79+12</							

SCHEDULE OF QUANTITIES

F.A.I.I RTE. 2605 1233	SECTION 02-0010-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. II
SCHEDULE OF QUANTITIES				
FED. ROAD DIST. NO. 5 ILLINOIS			PROJECT CMM-8003(207)	
CONTRACT NO. 83837				

26 SCHEDULE OF LEVELING BINDER				
STATION	LENGTH	CROSS SECTION AREA (sq ft)	AVERAGE AREA	LEVEL BINDER VOLUME (cu ft)
WINCHESTER ROAD				
34+00		0.0		
34+50	50	0.8	0.4	20
35+00	50	1.7	1.3	65
35+50	50	4.8	3.3	165
36+00	50	0.0	2.4	120
SUBTOTAL 34+00 - 36+00				370 cu ft / 27 = 13.7 cy
36+50		0.0		
37+00	50	1.2	0.6	30
37+50	50	0.0	0.6	30
38+00	50	0.4	0.2	10
38+50	50	0.0	0.2	10
SUBTOTAL 36+50 - 38+50				80 cu ft / 27 = 3.0 cy
39+00		0.0		
40+00	50	0.6	0.3	15
40+50	50	2.3	1.4	55
41+00	50	0.0	1.1	55
SUBTOTAL 39+00 - 41+00				140 cu ft / 27 = 5.2 cy
SUBTOTAL WINCHESTER				5.2 cy x 2.16 t/cy = 11.2 TONS
MIDLOTHIAN ROAD				
79+00		0.0		
79+50	50	0.9	0.6	25
80+00	50	2.1	1.5	75
80+50	50	1.1	1.0	60
81+00	50	0.0	0.6	30
81+50	50	2.0	1.0	50
82+00	50	1.5	1.8	90
82+50	50	3.4	2.5	125
83+00	50	4.2	3.8	190
83+50	50	3.4	3.8	190
84+00	50	0.7	2.1	105
84+50	50	1.3	1.9	55
85+00	50	0.0	0.7	35
85+50	50	1.3	0.7	35
86+00	50	0.0	0.7	35
86+50	50	2.3	1.2	60
87+00	50	0.6	0.6	210
87+50	50	0.0	4.3	215
88+00	50	0.0	0.0	0
88+50	50	11.5	8.0	290
89+00	50	7.5	9.5	475
89+50	50	3.4	5.5	275
90+00	50	1.7	5.1	255
90+50	50	0.0	0.9	45
SUBTOTAL 79+00 - 90+50				3005 cu ft / 27 = 111.3 cy
91+00		0.0		
92+00	50	1.5	0.8	40
93+00	50	1.9	1.7	85
93+50	50	0.0	1.0	50
SUBTOTAL 92+00 - 93+50				175 cu ft / 27 = 6.5 cy
94+00		0.0		
95+00	50	1.3	0.7	35
95+50	50	0.0	0.7	35
SUBTOTAL 94+00 - 95+50				70 cu ft / 27 = 2.6 cy
SUBTOTAL MIDLOTHIAN				2.6 cy x 2.16 t/cy = 5.6 TONS
TOTAL				250.0 TONS

27 SCHEDULE OF WIDENING, 5 3/4"						
FROM STATION	TO STATION	REFERENCE	LENGTH	AVERAGE WIDTH	AREA (sq ft)	QUANTITY (tons)
WINCHESTER ROAD						
31+80	34+40	LT	260	3.5	104.6	36.1
32+05	33+95	RT	190	9.0	190.0	65.6
33+95	33+45	RT	154	18.0	325.1	112.2
34+40	35+40	LT	100	17.0	188.9	65.2
37+00	38+00	LT	200	5.0	111.1	38.3
37+00	38+50	RT	250	4.5	125.0	43.1
38+00	42+50	LT	350	4.0	155.5	53.7
38+50	42+50	RT	300	2.5	83.3	28.7
SUBTOTAL WINCHESTER						442.9
MIDLOTHIAN ROAD						
78+22	79+12	LT	90	3.6	35.0	12.0
78+22	79+12	RT	90	3.5	35.0	12.0
79+12	81+82	LT	270	4.0	120.0	41.4
79+12	81+82	RT	270	5.5	165.0	56.9
81+82	89+47	LT	465	8.0	413.3	142.9
81+82	83+33	RT	50	9.5	52.8	18.2
82+32	84+22	RT	190	13.0	274.4	94.7
84+22	86+78	RT	256	18.0	512.0	176.6
86+47	86+50	LT	203	-	404.8	139.8
86+78	88+50	RT	172	-	435.7	150.3
88+50	89+70	LT	120	20.0	286.7	92.3
89+50	89+47	RT	97	14.0	150.9	52.1
89+47	90+17	RT	70	8.0	82.2	27.5
89+70	91+80	LT	190	14.0	286.6	102.0
90+17	92+07	RT	190	13.0	274.4	94.7
91+80	96+00	LT	440	8.0	361.1	134.6
92+07	92+83	RT	76	18.0	152.0	52.4
92+83	94+07	RT	124	-	241.3	83.2
94+07	94+83	RT	86	16.5	157.7	54.4
94+83	96+00	RT	107	8.0	96.1	32.8
96+00	97+65	LT	165	9.5	174.2	60.1
96+00	97+65	RT	165	9.5	174.2	60.1
97+65	100+35	LT	270	5.5	165.0	56.9
97+65	100+35	RT	270	5.5	165.0	56.9
SUBTOTAL MIDLOTHIAN						1798.3
TOTAL						2241.2

28 SCHEDULE OF ENTRANCES						
LOCATION	REFERENCE	AREA (sq ft)	BITUMINOUS SURFACE COURSE 2 1/2 INCH DEPTH (ton)	AGGREGATE BASE COURSE 8 INCH DEPTH (ton)	LENGTH AT ROW LINE (feet)	
MIDLOTHIAN ROAD						
63+10			90.8	13.0	42.5	
85+87	RT	44.8	0.7	20.8	19	
TOTALS						29.3 63.3 55.0

31 SCHEDULE OF PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AND DETECTABLE WARNINGS		
LOCATION	SIDEWALK AREA (sq ft)	DETECTABLE WARNINGS AREA (sq ft)
MIDLOTHIAN / WINCHESTER		
NORTHEAST CORNER	340	27
SOUTHWEST CORNER	625	28
NORTHWEST CORNER	240	36
TOTAL		1490

29 SCHEDULE OF BITUMINOUS BICYCLE PATH QUANTITIES									
FROM STATION	TO STATION	REFERENCE	LENGTH	AVERAGE WIDTH	AREA (sq yd)	AGGREGATE BASE COURSE 6" SPECIAL (ton)	BITUMINOUS CONCRETE BINDER 2 1/4" (ton)	BITUMINOUS CONCRETE SURFACE 1 1/2" (ton)	
MIDLOTHIAN ROAD									
78+22	86+96	LT	824	8	732.4	256.3	98.9	65.9	
86+96	95+00	LT	790	8	675.6	236.4	91.1	60.8	
TOTAL									492.7 190.0 126.7

32 SCHEDULE OF SAWING BITUMINOUS CONCRETE PAVEMENT				
FROM STATION	TO STATION	REFERENCE	LENGTH (feet)	
WINCHESTER ROAD				
31+80	36+00	LT	420	
31+50	36+00	RT	450	
36+50	42+50	LT	900	
36+50	42+50	RT	500	
SUBTOTAL WINCHESTER				2070
MIDLOTHIAN ROAD				
79+12	87+40	LT	828	
79+12	87+40	RT	828	
83+18	-	RT	36	
85+87	-	RT	16	
87+75	100+35	LT	1260	
87+75	100+35	RT	1260	
SUBTOTAL MIDLOTHIAN				4231
TOTAL				6301

30 SCHEDULE OF PIPE UNDERDRAIN, 4" (MODIFIED)				
FROM STATION	TO STATION	REFERENCE	LENGTH (feet)	
WINCHESTER ROAD				
31+80	32+25	RT	75	
31+80	32+50	LT	70	
32+25	34+00	RT	175	
32+50	34+00	LT	150	
34+00	35+54	RT	154	
34+00	35+54	LT	154	
80+80	39+40	RT	315	
86+42	38+07	LT	207	
38+07	41+48	LT	341	
39+40	42+50	RT	310	
41+48	42+50	LT	102	
SUBTOTAL WINCHESTER				2063
MIDLOTHIAN ROAD				
78+72	80+00	LT	128	
78+72	82+50	RT	378	
80+00	82+50	LT	250	
82+50	85+00	LT	250	
82+50	85+00	RT	250	
85+00	86+80	LT	180	
85+00	86+80	RT	180	
86+80	35+54	LT	85	
35+54	88+88	LT	110	
88+42	90+30	RT	188	
88+88	90+30	LT	132	
90+30	91+80	RT	150	
90+30	91+80	LT	150	
91+80	93+00	RT	140	
91+80	93+00	LT	223	
93+00	93+30	LT	40	
88+88	95+80	RT	196	
94+00	95+80	LT	182	
95+82	100+50	RT	408	
95+82	100+50	LT	468	
SUBTOTAL MIDLOTHIAN				4111
TOTAL				6164

33 SCHEDULE OF WOOD FENCE TO BE REMOVED AND REPLACED		
FROM STATION	TO STATION	LENGTH (feet)
SOUTHWEST CORNER		
85+86 RT	37+40 RT	90.0
TOTAL		90.0

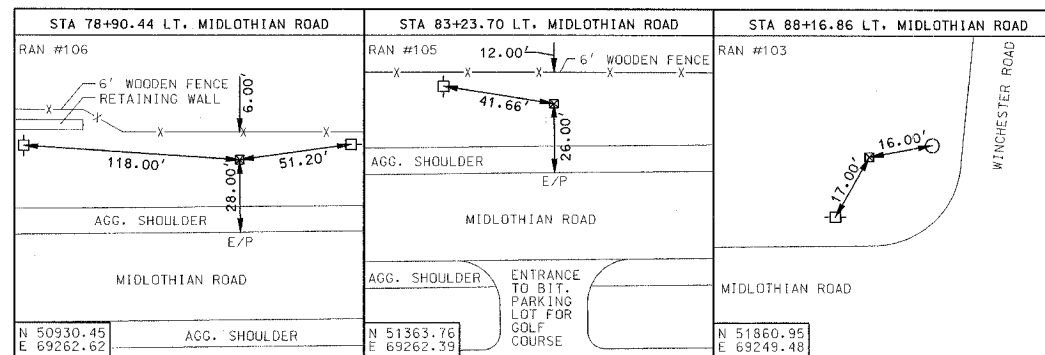
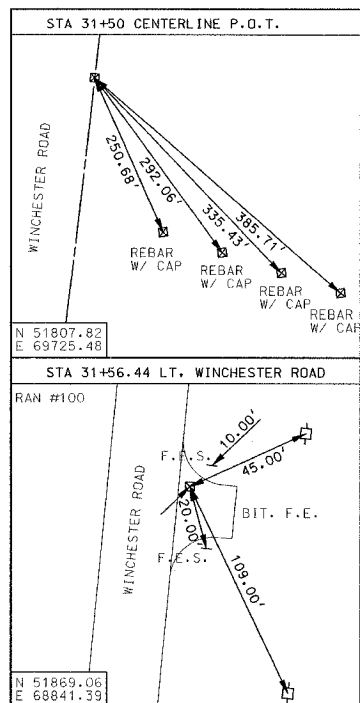
34 SCHEDULE OF PLAN ALLOWANCE ITEMS		
ITEM	QUANTITY	UNIT
EARTH EXCAVATION (UNSTABLE)	914	CUBIC YARDS
POROUS GRANULAR EMBANKMENT, SPECIAL	1295	TON
EXPLORATION TRENCH, 48"	150.0	FOOT
CLASS D PATCHES, TYPE I, 11"	48.0	SQUARE YARDS
CLASS D PATCHES, TYPE II, 11"	72.1	SQUARE YARDS
CLASS D PATCHES, TYPE III, 11"	218.2	SQUARE YARDS
CLASS D PATCHES, TYPE IV, 11"	144.1	SQUARE YARDS
PIPE DRAINS 4"	150	FOOT
PIPE DRAINS 6"	150	FOOT
AGGREGATE FOR TEMPORARY ACCESS	500	TON

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	12
ALIGNMENT, TIES AND BENCHMARKS				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				

LEGEND

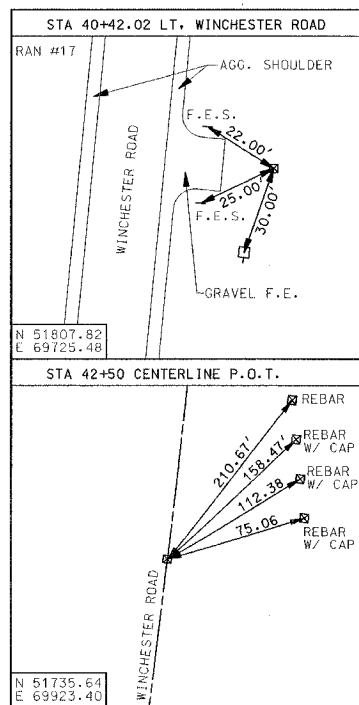
- LIGHT BASE
- POWER POLE
- FIRE HYDRANT
- DECIDUOUS TREE
- TELEPHONE BOX
- CATCH BASIN
- PK NAIL

SCALE: 1"=100'

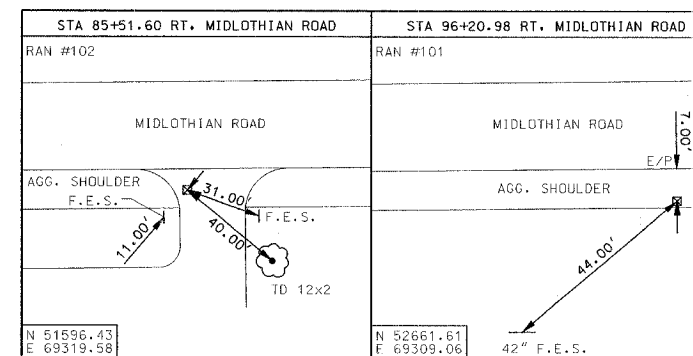


STATION EQUATION
 STA. 87+58.65 MIDLOTHIAN ROAD =
 STA. 36+19.74 WINCHESTER ROAD
 N 51799.09
 E 69296.358

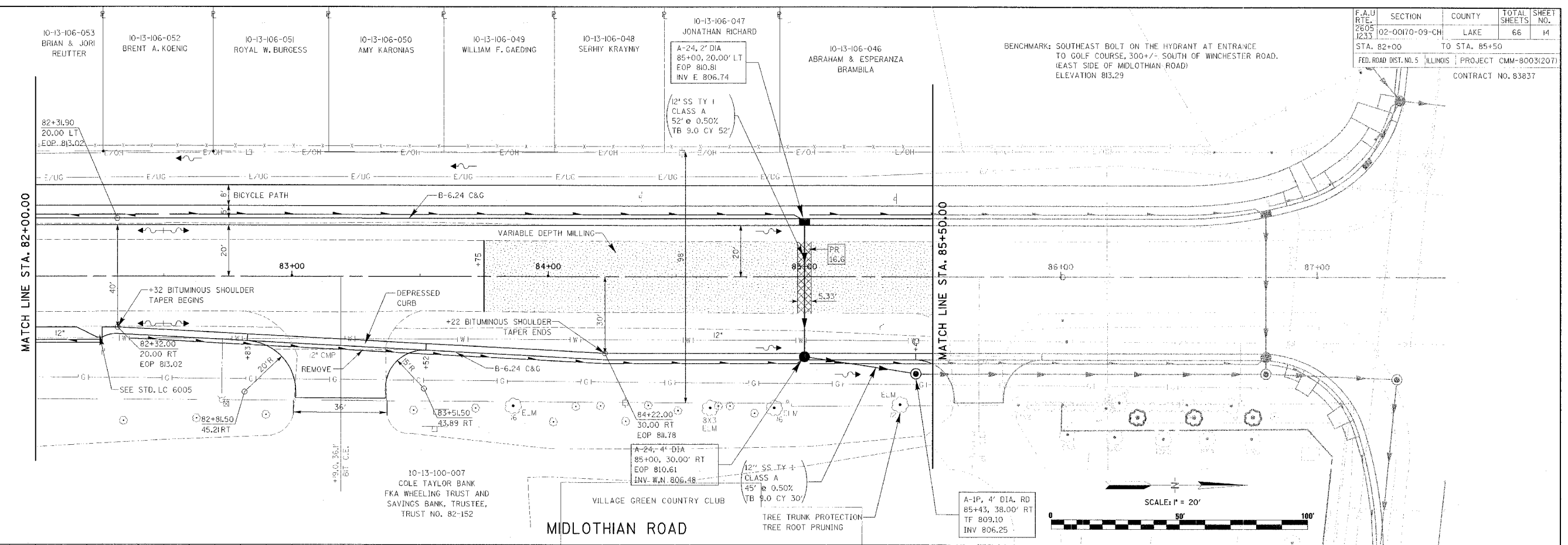
- BENCHMARKS:**
- CUT "X" IN SOUTH BOLT ON 1ST HYDRANT WEST OF MIDLOTHIAN SOUTH SIDE OF WINCHESTER ELEVATION 809.85
 - SOUTHWEST BOLT ON HYDRANT @ SOUTHWEST CORNER OF WINCHESTER AND ADDERLEY LANE ELEVATION 828.17
 - SOUTHEAST BOLT ON HYDRANT @ SOUTHEAST CORNER OF MIDLOTHIAN AND WINCHESTER. ELEVATION 806.73
 - NAIL IN SOUTH FACE OF POWER POLE @ NORTHEAST CORNER OF MIDLOTHIAN AND WINCHESTER. ELEVATION 803.17
 - RAILROAD SPIKE IN SOUTH FACE OF POWER POLE AT NORTHWEST CORNER OF WINCHESTER AND HARRIS. ELEVATION 783.82
 - RAILROAD SPIKE IN SOUTH FACE OF POWER POLE AT NORTHWEST CORNER OF WINCHESTER AND HARRIS. ELEVATION 783.82
 - NAIL IN SOUTH FACE OF POWER POLE @ NORTHEAST CORNER OF MIDLOTHIAN AND WINCHESTER. ELEVATION 803.17
 - BOLT BY ARROW ON HYDRANT @ SOUTHEAST CORNER OF MIDLOTHIAN AND COMMERCE. ELEVATION 809.17
 - NAIL IN SOUTH FACE OF POWER POLE AT NORTHEAST CORNER MIDLOTHIAN AND WINCHESTER. ELEVATION 803.17
 - SOUTHEAST BOLT ON HYDRANT AT ENTRANCE TO GOLF COURSE +/- 300' SOUTH OF WINCHESTER ROAD (EAST SIDE MIDLOTHIAN RD) ELEVATION 813.29
 - SOUTHEAST BOLT ON HYDRANT AT SOUTHEAST CORNER OF MIDLOTHIAN AND WINCHESTER. ELEVATION 806.73



CURVE 1
 $\Delta = 4^\circ 23' 37.02''$ (RT)
 $D = 0^\circ 18' 02.9984''$
 $T = 730.60'$
 $L = 1,460.48'$
 $R = 19,045.74'$
 P.C. Sta 39+24.59
 P.T. Sta 53+85.07

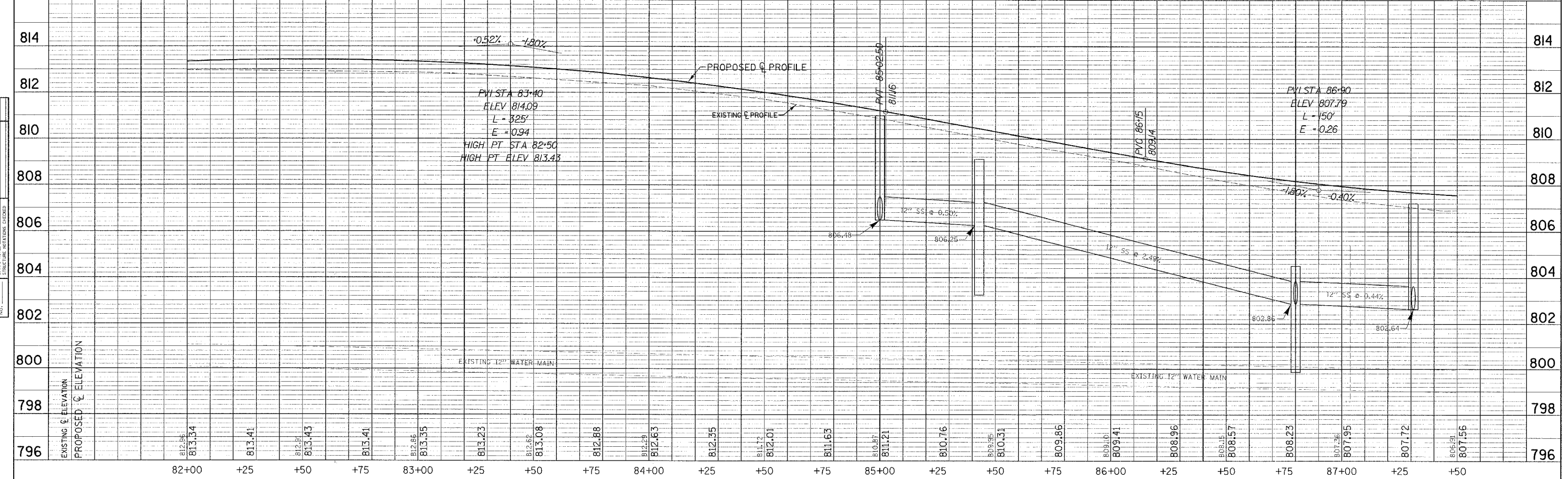


F.A.U. RTE. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 14
STA. 82+00		TO STA. 85+50		
FED. ROAD DIST. NO. 5		ILLINOIS PROJECT CMM-800312071		
CONTRACT NO. 83837				



PLAN
 SUBMITTED: _____
 ALIGNED: _____
 NOTE BOOK: _____
 NO. _____

PROFILE
 SUBMITTED: _____
 SALES CHECKED: _____
 S.M.S. NOTES: _____
 STRUCTURE NOTATIONS CHECKED: _____
 NOTE BOOK: _____
 NO. _____

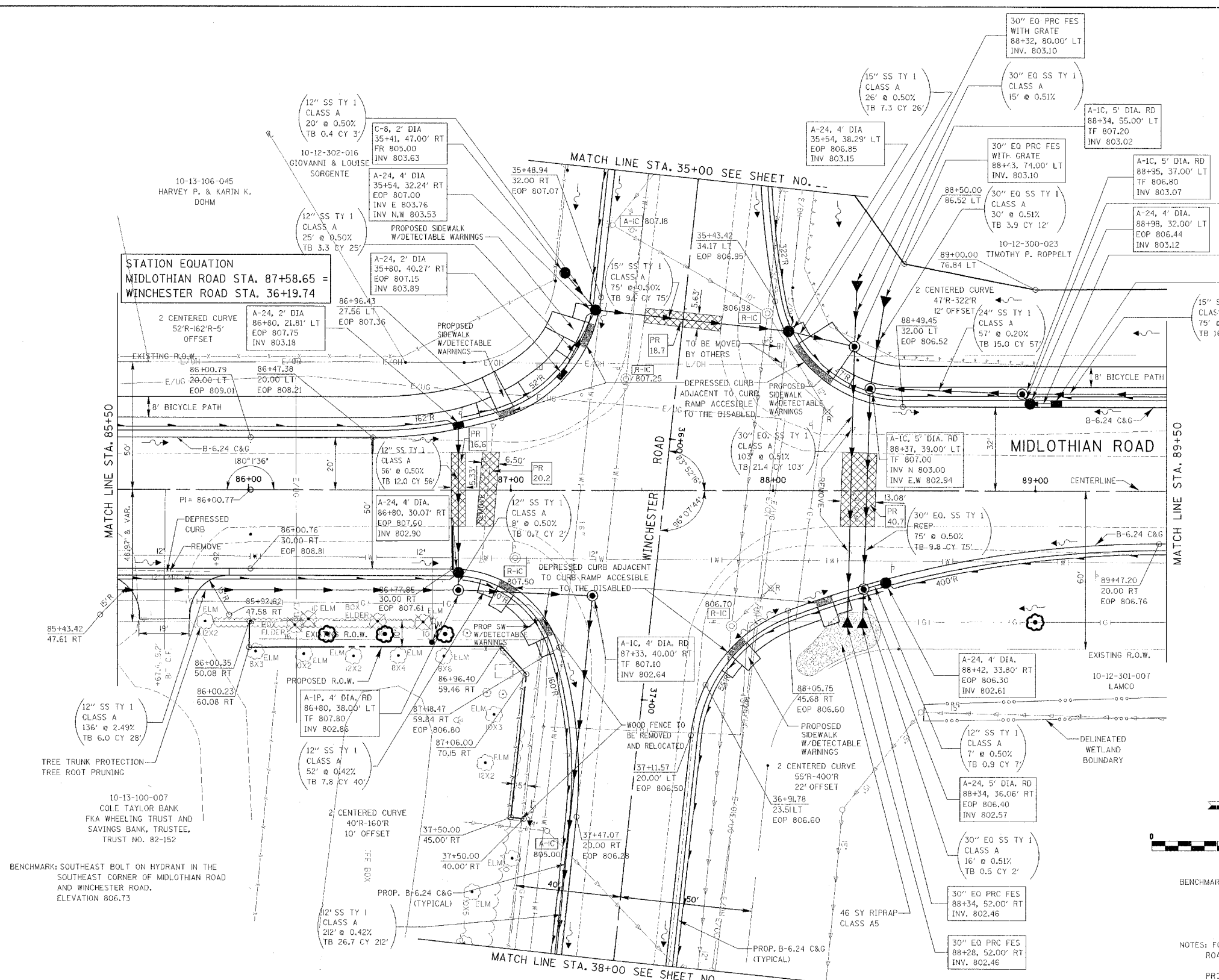


F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	15
STA. 85+50		TO STA. 89+50		
FED. ROAD DIST. NO. 5		ILLINOIS PROJECT CMM-8003(207)		
CONTRACT NO. 83837				

DATE	BY	REVISION

DATE	BY	REVISION

STATION EQUATION
 MIDLOTHIAN ROAD STA. 87+58.65 =
 WINCHESTER ROAD STA. 36+19.74

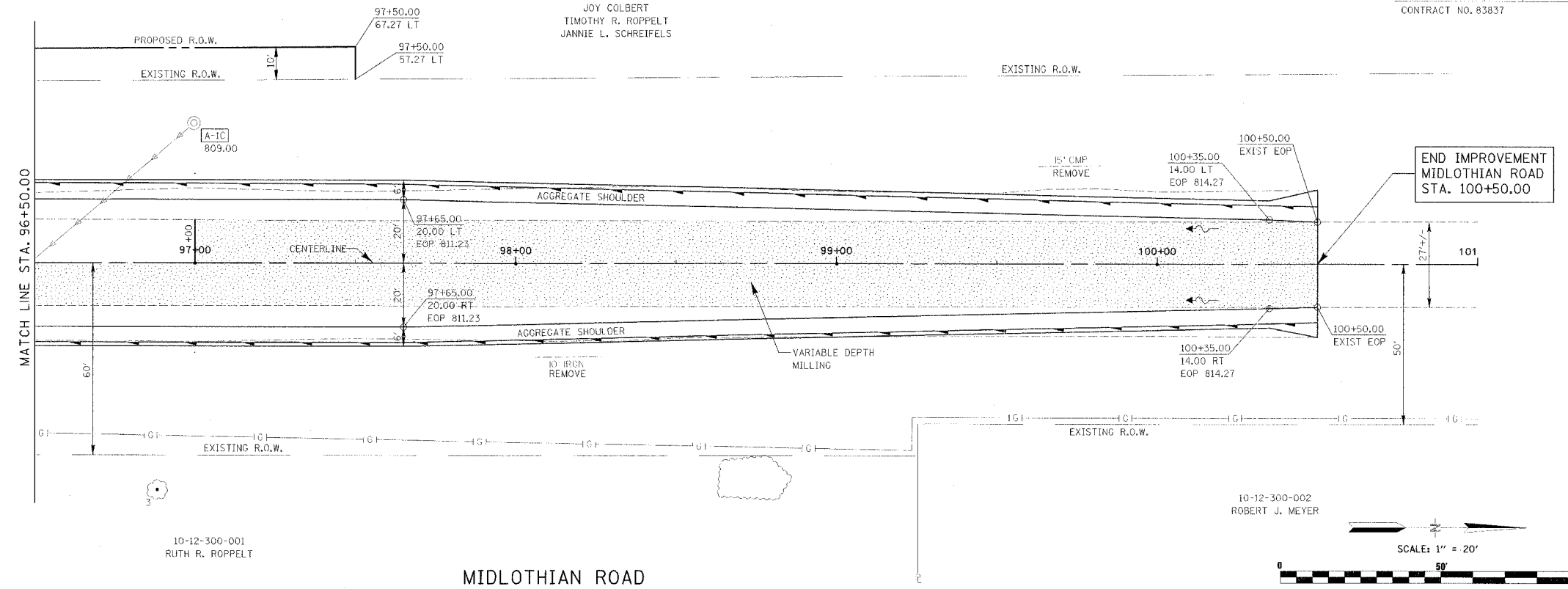


BENCHMARK: NAIL IN THE SOUTH FACE OF POWER POLE IN THE NORTHEAST CORNER OF MIDLOTHIAN ROAD AND WINCHESTER ROAD ELEVATION 803.17

NOTES: FOR CENTERLINE PROFILE OF MIDLOTHIAN ROAD SEE SHEET NUMBERS ... AND ...
 PROPOSED TREE LOCATIONS ARE APPROXIMATE. SEE SCHEDULE FOR LOCATIONS AND SPECIES.

F.A.U. RTE. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 18
STA. 96+50		TO STA. 101+00		
FED. ROAD DIST. NO. 5		ILLINOIS PROJECT CMM-8003(207)		
CONTRACT NO. 83837				

10-12-300-022
RUTH R. ROPPELT
JOY COLBERT
TIMOTHY R. ROPPELT
JANNIE L. SCHREIFELS



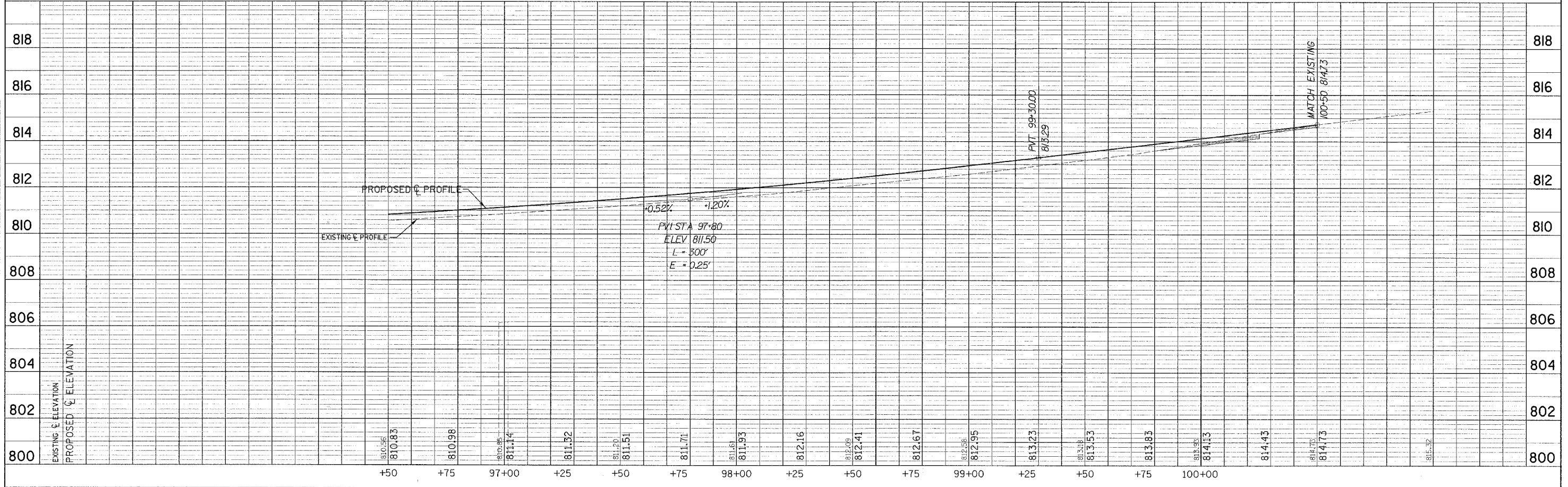
10-12-300-001
RUTH R. ROPPELT

10-12-300-002
ROBERT J. MEYER

MIDLOTHIAN ROAD

DATE	
BY	
NO.	
PLAN	
SURVEYED	
ALIGNED	
NOTED	
NO.	

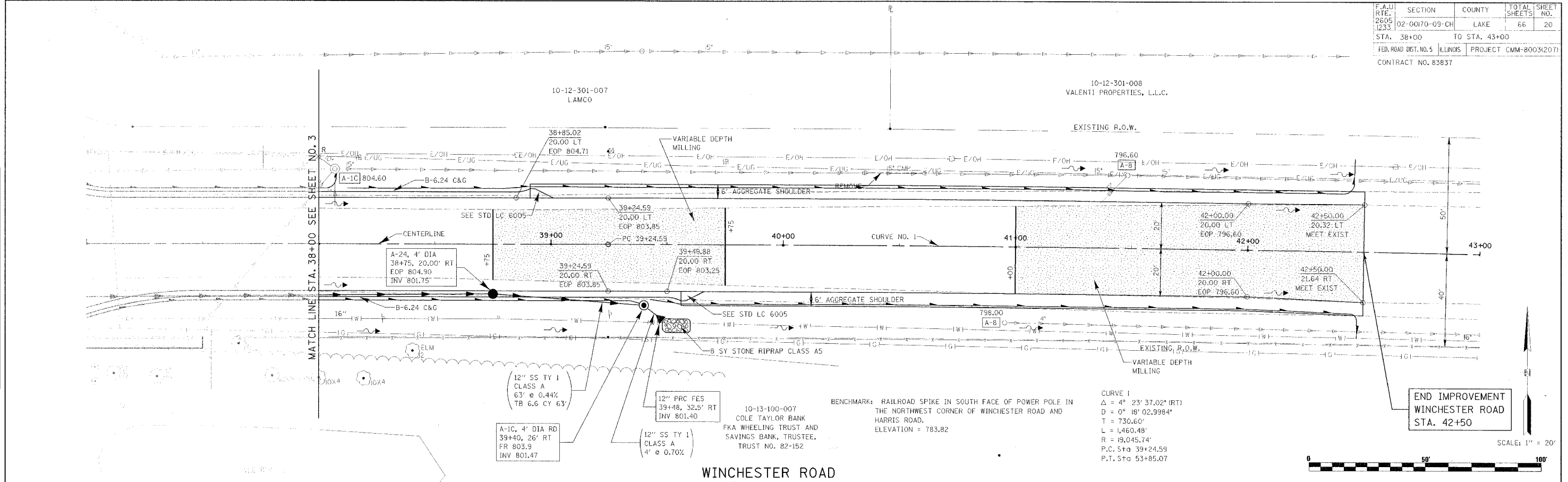
DATE	
BY	
NO.	
PROFILE	
SURVEYED	
GRADES CHECKED	
STRUCTURE	
NO.	



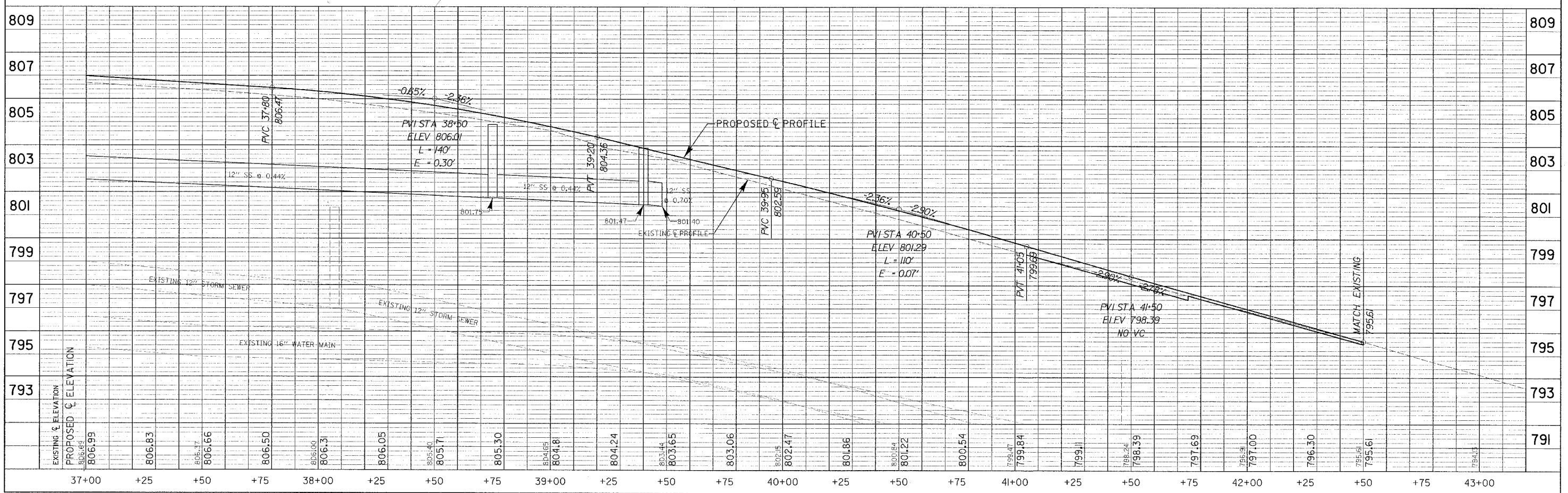
FILE NO. 10-12-300-022-CH-01
DATE: 10-12-02

F.A.U. RTE. 2605/1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 20
STA. 38+00	TO STA. 43+00		PROJECT CMM-8003(207)	
FED. ROAD DIST. NO. 5		ILLINOIS	CONTRACT NO. 85837	

DATE	BY	CHKD.
PLAN		
SUBMITTED		
ALIGNMENT CHECKED		
NOTE BOOK		
REV. OF MAP CHECKED		
No.		



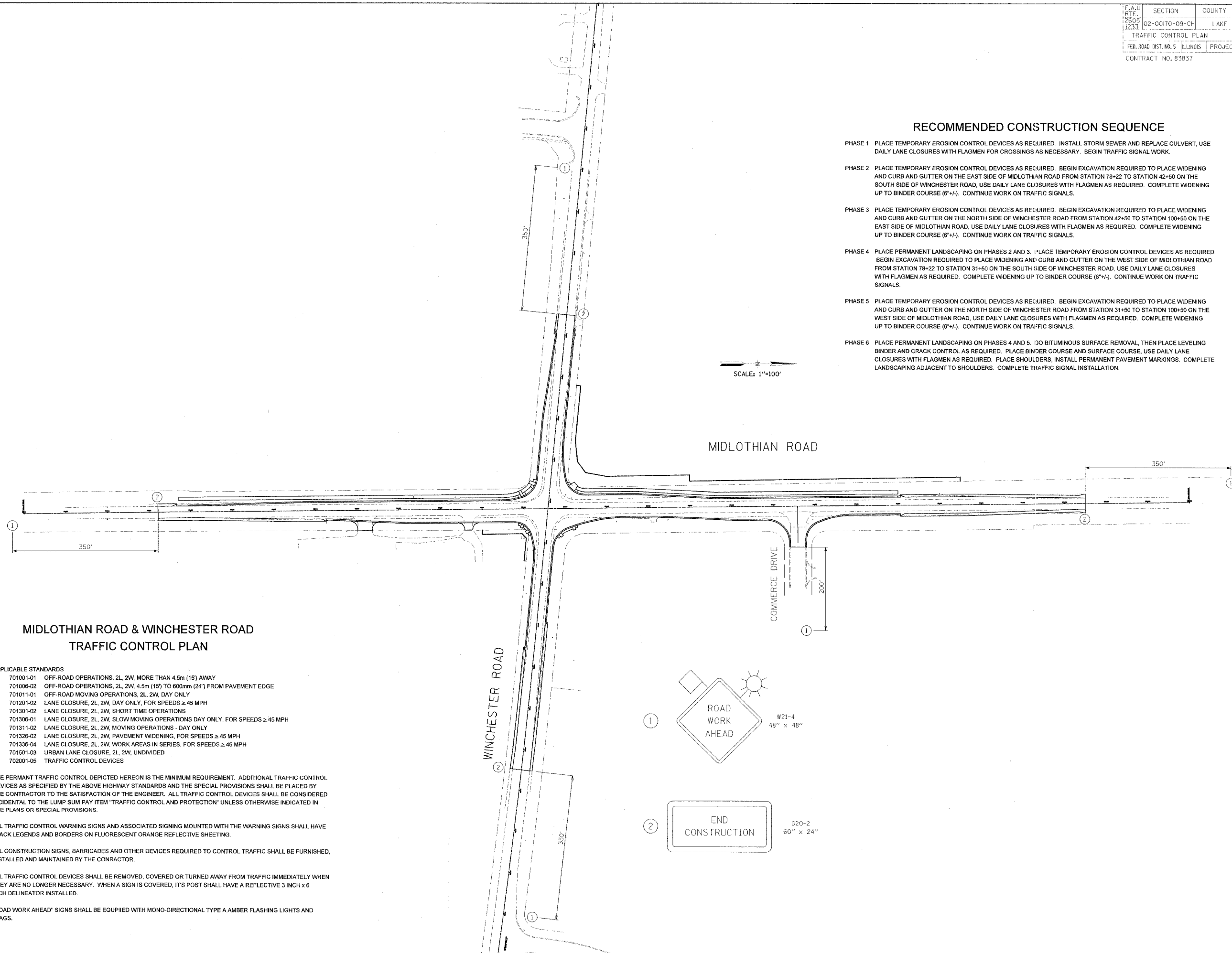
DATE	BY	CHKD.
PROFILE		
SUBMITTED		
GRADES CHECKED		
NOTE BOOK		
REV. OF PROFILE CHECKED		
No.		



RECOMMENDED CONSTRUCTION SEQUENCE

- PHASE 1** PLACE TEMPORARY EROSION CONTROL DEVICES AS REQUIRED. INSTALL STORM SEWER AND REPLACE CULVERT, USE DAILY LANE CLOSURES WITH FLAGMEN FOR CROSSINGS AS NECESSARY. BEGIN TRAFFIC SIGNAL WORK.
- PHASE 2** PLACE TEMPORARY EROSION CONTROL DEVICES AS REQUIRED. BEGIN EXCAVATION REQUIRED TO PLACE WIDENING AND CURB AND GUTTER ON THE EAST SIDE OF MIDLOTHIAN ROAD FROM STATION 78+22 TO STATION 42+50 ON THE SOUTH SIDE OF WINCHESTER ROAD, USE DAILY LANE CLOSURES WITH FLAGMEN AS REQUIRED. COMPLETE WIDENING UP TO BINDER COURSE (6"+/-). CONTINUE WORK ON TRAFFIC SIGNALS.
- PHASE 3** PLACE TEMPORARY EROSION CONTROL DEVICES AS REQUIRED. BEGIN EXCAVATION REQUIRED TO PLACE WIDENING AND CURB AND GUTTER ON THE NORTH SIDE OF WINCHESTER ROAD FROM STATION 42+50 TO STATION 100+50 ON THE EAST SIDE OF MIDLOTHIAN ROAD, USE DAILY LANE CLOSURES WITH FLAGMEN AS REQUIRED. COMPLETE WIDENING UP TO BINDER COURSE (6"+/-). CONTINUE WORK ON TRAFFIC SIGNALS.
- PHASE 4** PLACE PERMANENT LANDSCAPING ON PHASES 2 AND 3. PLACE TEMPORARY EROSION CONTROL DEVICES AS REQUIRED. BEGIN EXCAVATION REQUIRED TO PLACE WIDENING AND CURB AND GUTTER ON THE WEST SIDE OF MIDLOTHIAN ROAD FROM STATION 78+22 TO STATION 31+50 ON THE SOUTH SIDE OF WINCHESTER ROAD, USE DAILY LANE CLOSURES WITH FLAGMEN AS REQUIRED. COMPLETE WIDENING UP TO BINDER COURSE (6"+/-). CONTINUE WORK ON TRAFFIC SIGNALS.
- PHASE 5** PLACE TEMPORARY EROSION CONTROL DEVICES AS REQUIRED. BEGIN EXCAVATION REQUIRED TO PLACE WIDENING AND CURB AND GUTTER ON THE NORTH SIDE OF WINCHESTER ROAD FROM STATION 31+50 TO STATION 100+50 ON THE WEST SIDE OF MIDLOTHIAN ROAD, USE DAILY LANE CLOSURES WITH FLAGMEN AS REQUIRED. COMPLETE WIDENING UP TO BINDER COURSE (6"+/-). CONTINUE WORK ON TRAFFIC SIGNALS.
- PHASE 6** PLACE PERMANENT LANDSCAPING ON PHASES 4 AND 5. DO BITUMINOUS SURFACE REMOVAL, THEN PLACE LEVELING BINDER AND CRACK CONTROL AS REQUIRED. PLACE BINDER COURSE AND SURFACE COURSE, USE DAILY LANE CLOSURES WITH FLAGMEN AS REQUIRED. PLACE SHOULDERS, INSTALL PERMANENT PAVEMENT MARKINGS. COMPLETE LANDSCAPING ADJACENT TO SHOULDERS. COMPLETE TRAFFIC SIGNAL INSTALLATION.

SCALE: 1"=100'



MIDLOTHIAN ROAD & WINCHESTER ROAD TRAFFIC CONTROL PLAN

- 1. APPLICABLE STANDARDS**
 - 701001-01 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5m (15') AWAY
 - 701008-02 OFF-ROAD OPERATIONS, 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
 - 701011-01 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
 - 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH
 - 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 - 701308-01 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS \geq 45 MPH
 - 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
 - 701326-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS \geq 45 MPH
 - 701338-04 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS \geq 45 MPH
 - 701501-03 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
 - 702001-05 TRAFFIC CONTROL DEVICES
- 2. THE PERMANT TRAFFIC CONTROL DEPICTED HEREON IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED BY THE ABOVE HIGHWAY STANDARDS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM PAY ITEM "TRAFFIC CONTROL AND PROTECTION" UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIAL PROVISIONS.**
- 3. ALL TRAFFIC CONTROL WARNING SIGNS AND ASSOCIATED SIGNING MOUNTED WITH THE WARNING SIGNS SHALL HAVE BLACK LEGENDS AND BORDERS ON FLUORESCENT ORANGE REFLECTIVE SHEETING.**
- 4. ALL CONSTRUCTION SIGNS, BARRICADES AND OTHER DEVICES REQUIRED TO CONTROL TRAFFIC SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR.**
- 5. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3 INCH x 6 INCH DELINEATOR INSTALLED.**
- 6. "ROAD WORK AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL TYPE A AMBER FLASHING LIGHTS AND FLAGS.**

EROSION CONTROL NOTES:

1. THE CONSTRUCTION LIMITS WILL BE IDENTIFIED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED AT LOCATIONS SHOWN ON EROSION CONTROL PLAN. ANY RELOCATION OF THE PERIMETER EROSION BARRIER MUST BE APPROVED BY THE ENGINEER.
3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
4. SEE PROPOSED PLAN AND PROFILE FOR STORM SEWER INFORMATION.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE.
6. DURING DE-WATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DE-WATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES THAT DO NOT DRAIN INTO SEDIMENT BASINS OR SILT TRAPS IS PROHIBITED. (SEE NOTE "K" FOR FURTHER DETAIL)
7. EROSION CONTROL ITEMS MAY BE UTILIZED IN MULTIPLE STAGES. REMOVAL OF EROSION CONTROL ITEMS SHALL BE APPROVED BY THE ENGINEER.
8. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS", "ILLINOIS URBAN MANUAL", AND THE SPECIAL PROVISIONS.
9. THE CONTRACTOR SHALL KEEP ALL ADJACENT STREETS CLEAN AT ALL TIMES.
10. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT THE EXISTING DRIVEWAY ENTRANCE PRIOR TO EARTH MOVING ACTIVITIES. THIS ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THE ROADWAY IS TO BE CLEANED OF DEBRIS DAILY. (SEE NOTE "I" FOR FURTHER DETAIL)
11. COORDINATE ALL EROSION CONTROL, SITE GRADING, AND SEEDING/SODDING MEASURES WITH THE EROSION CONTROL AND RESTORATION PLAN.
12. ALL STOCKPILES, WHICH WILL BE IN PLACE FOR TWO WEEKS OR LONGER, SHALL BE HYDROSEEDED WITHIN 14 DAYS OF FINAL STOCKPILING. TOPSOIL STOCKPILES SHALL BE CONSTRUCTED SO AS TO FREELY DRAIN AND SHALL NOT IMPEDE NATURAL DRAINAGE. ALL STOCKPILES SHALL HAVE PERIMETER EROSION BARRIER INSTALLED AROUND THE BASE.
13. THE CONTRACTOR SHALL PREVENT SILT FROM ENTERING OFFSITE DOWNSTREAM STORMWATER CONVEYANCE SYSTEM BY INSTALLING FABRIC DROPS IN ALL STRUCTURES WITH OPEN GRATES, WHICH COLLECT TRIBUTARY WATER FROM DISTURBED AREAS AND DO NOT OUTLET INTO PROJECT SEDIMENT BASINS OR SILT TRAPS.
14. SODDING SHALL BE INITIATED WITHIN 7 DAYS AFTER THE FINAL GRADES HAVE BEEN ATTAINED. ALL UNSTABILIZED AREAS NOT DISTURBED FOR 7 DAYS SHALL BE SEEDED TEMPORARILY. THE TEMPORARY SEED MIXTURE SHALL BE AS DIRECTED BY THE "ILLINOIS URBAN MANUAL". SEE SOIL PROTECTION CHART FOR SEEDING RATES.
15. IF BLOWING DUST IS A PROBLEM, AS DETERMINED BY THE ENGINEER, THEN THE CONTRACTOR SHALL EMPLOY A WATER TRUCK AS OFTEN AS NECESSARY TO KEEP THE SOIL IN A DAMPENED CONDITION TO MINIMIZE AIRBORNE PARTICULATES. INSTRUCTIONS IN THE ILLINOIS URBAN MANUAL PRACTICE STANDARD #825 SHALL BE FOLLOWED.

16. THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION CONTROL MEASURES ON A WEEKLY BASIS OR AFTER A 1/2" RAINFALL AND REPLACE, REPAIR OR CLEAN THEM ON A TIMELY BASIS.
17. ANY SOIL EROSION CONTROL MEASURES IN ADDITION TO THOSE OUTLINED IN THE PLANS, WHICH ARE DEEMED NECESSARY BY THE ENGINEER, SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR.
18. PRIOR TO COMMENCING ANY SITE GRADING, SIGNOFF MUST BE OBTAINED FROM THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM, NPDES).

A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

C. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR RE-DISTURBANCE.

D. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.

**LAKE COUNTY STORMWATER MANAGEMENT COMMISSION
SEDIMENT AND EROSION CONTROL NOTES**

E. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

F. 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.

G. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PRIME CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.

H. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

I. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF LAKE COUNTY.

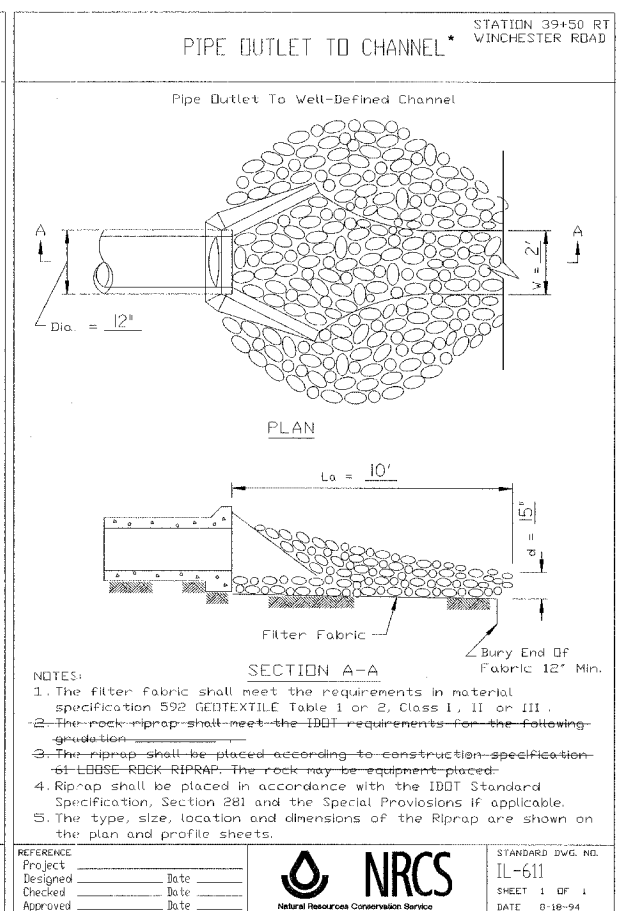
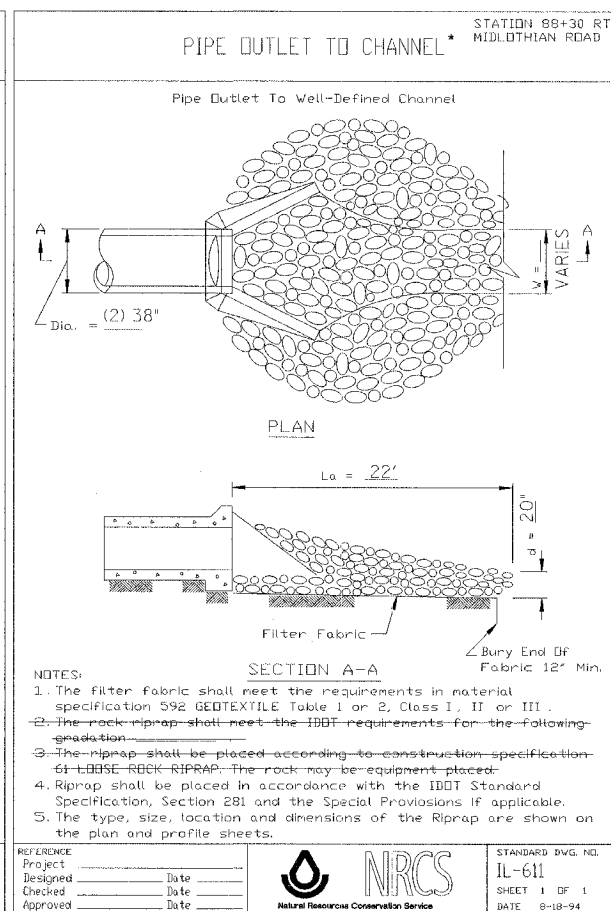
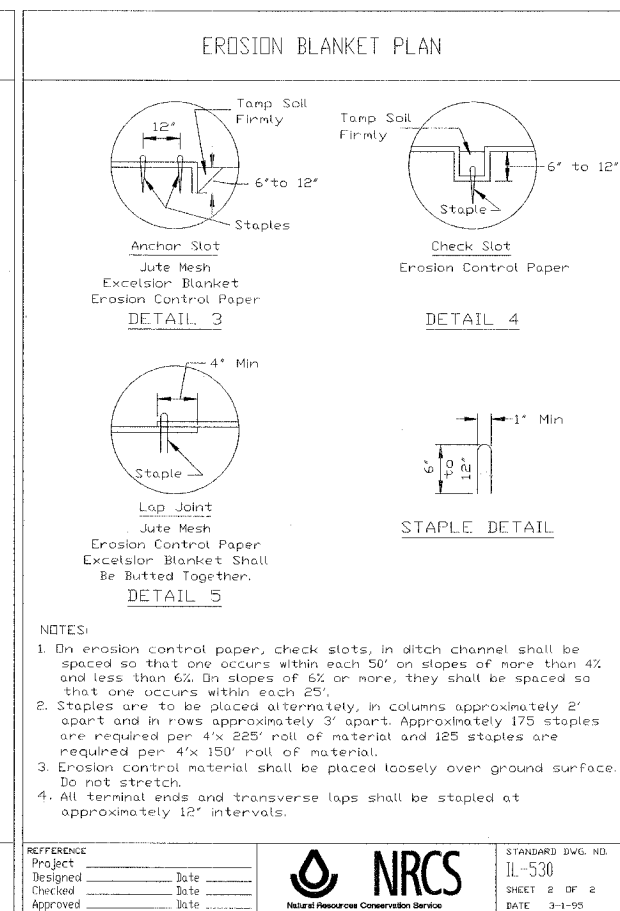
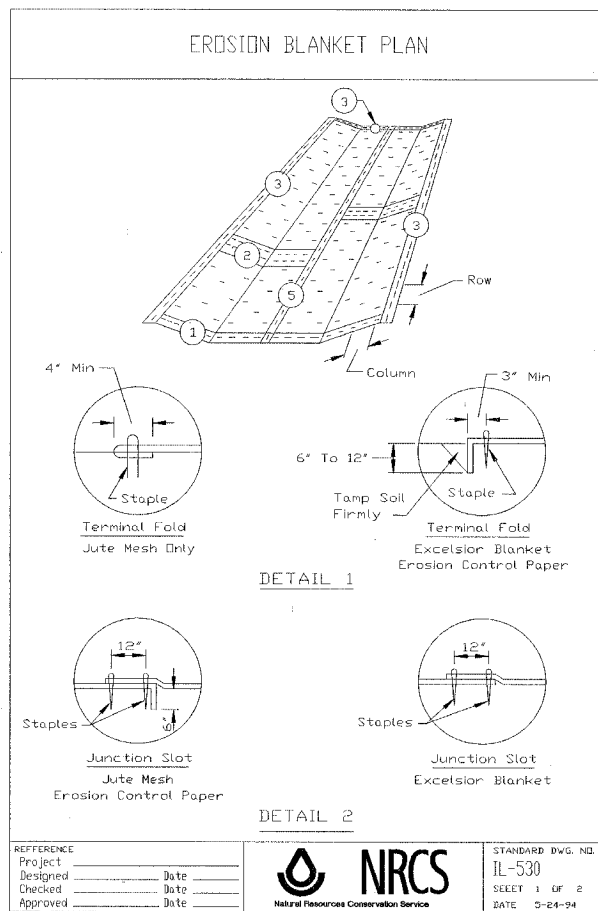
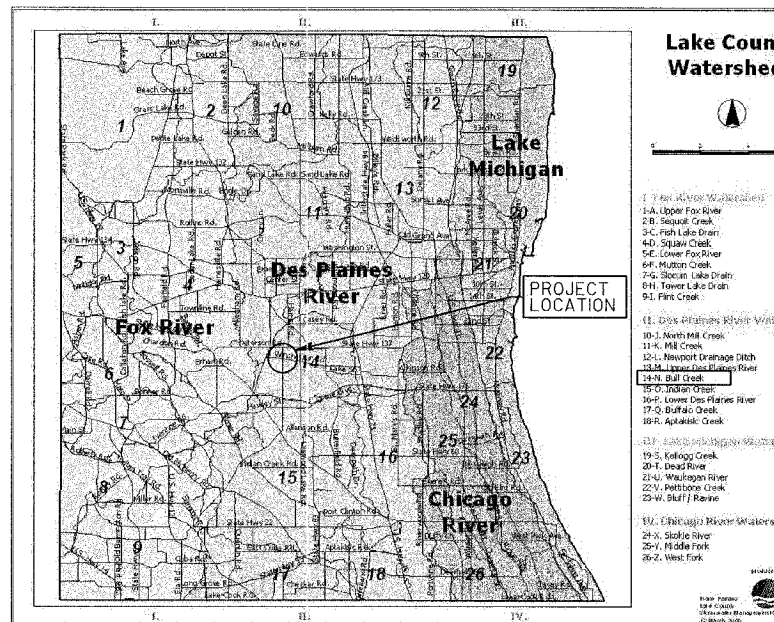
J. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).

K. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

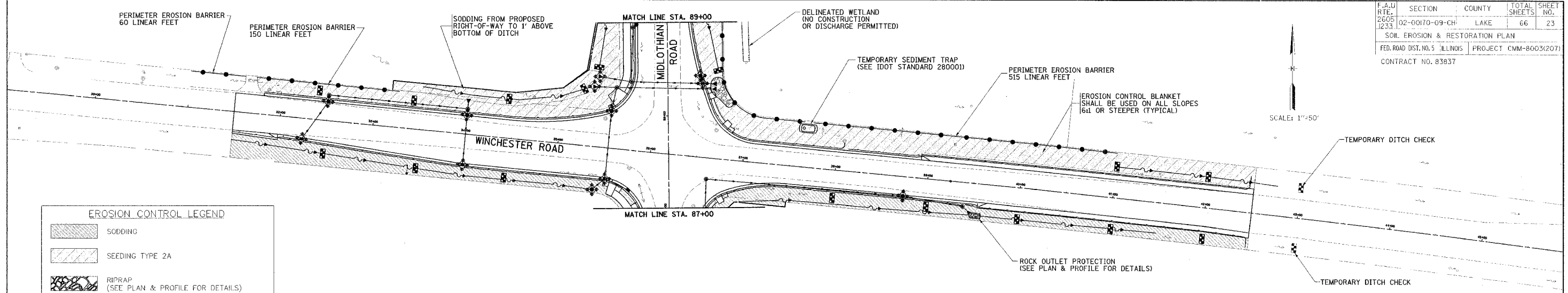
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	22
SOIL EROSION & RESTORATION PLAN				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83937				

NOTE:
ITEMS UNDERLINED OR STRUCK OUT ARE MODIFICATIONS TO THE ILLINOIS URBAN MANUAL STANDARDS BY HAMPTON, LENZINI AND RENWICK INC.

EROSION CONTROL ITEM	USE ILLINOIS URBAN MANUAL STANDARD	ILLINOIS URBAN MANUAL DRAWING NUMBER	ILLINOIS URBAN STANDARD NUMBER	USE IDOT STANDARDS	IDOT HIGHWAY STANDARD DETAIL	IDOT STANDARD SPECIFICATION SECTION	USE MISC. STANDARDS	MISCELLANEOUS STANDARDS OR COMMENTS	TEMPORARY EROSION CONTROL	PERMANENT EROSION CONTROL
TEMPORARY SEEDING	X	N/A	965		250, 251				X	-
PERMANENT SEEDING		N/A	880	X	250				-	X
SODDING		N/A	880, 925	X	252				-	X
EROSION BLANKET	X	530	830		251				-	X
PERIMETER EROSION BARRIER		620	920	X	280001-02	280			X	-
TEMPORARY DITCH CHECK, URETHANE FOAM/GEOTEXTILE INLET PROTECTION, SPECIAL		635	935		280001-02	280	X	STANDARD LC1005	X	-
		N/A	N/A	X	280001-02	280			X	-
SEDIMENT TRAP		660	960	X	280001-02	280		15' x 25' (MIN.)	X	-
ROCK OUTLET PROTECTION	X	610, 611	910		N/A	281, 282			-	X
DUST CONTROL	X	N/A	825		N/A	N/A			X	-

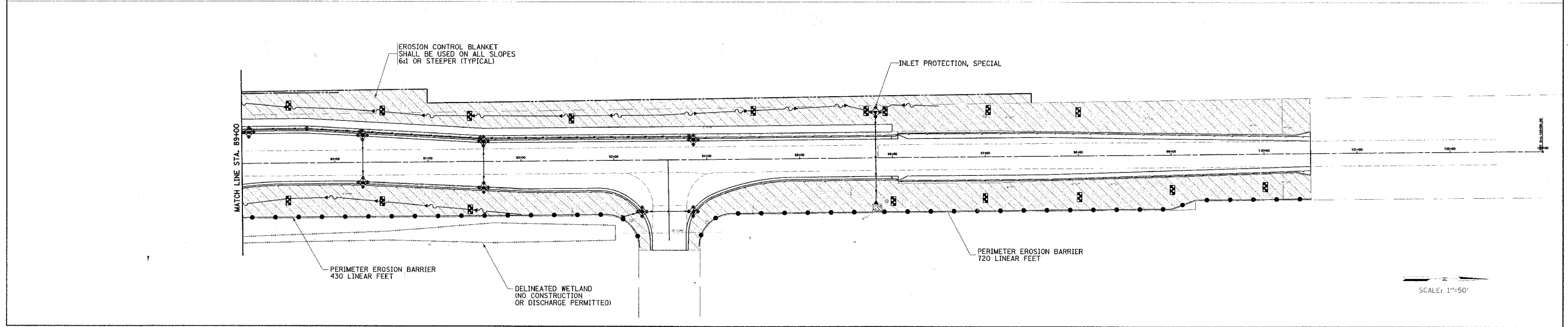
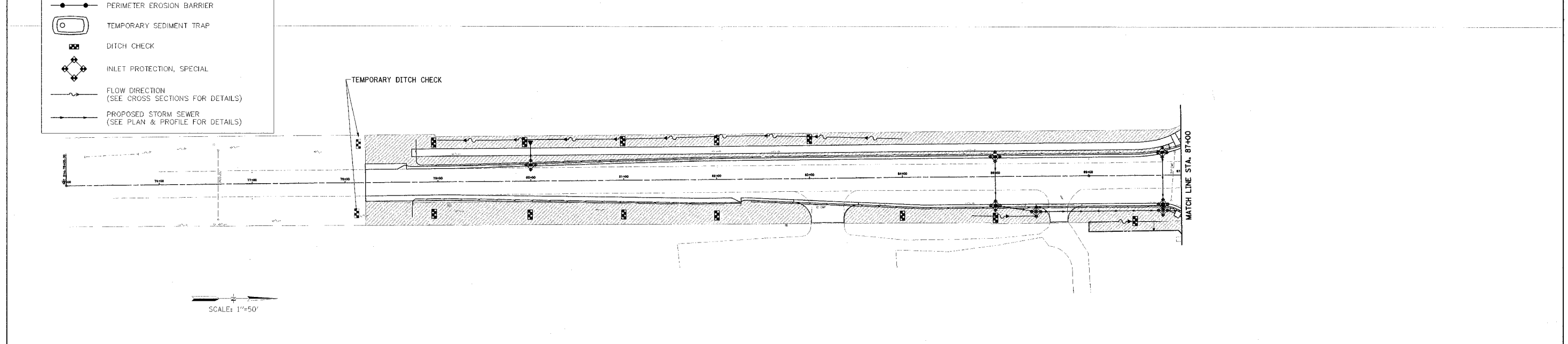


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 J233	02-00170-09-CH	LAKE	66	23
SOIL EROSION & RESTORATION PLAN				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				

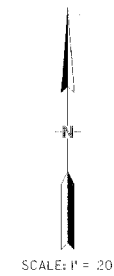
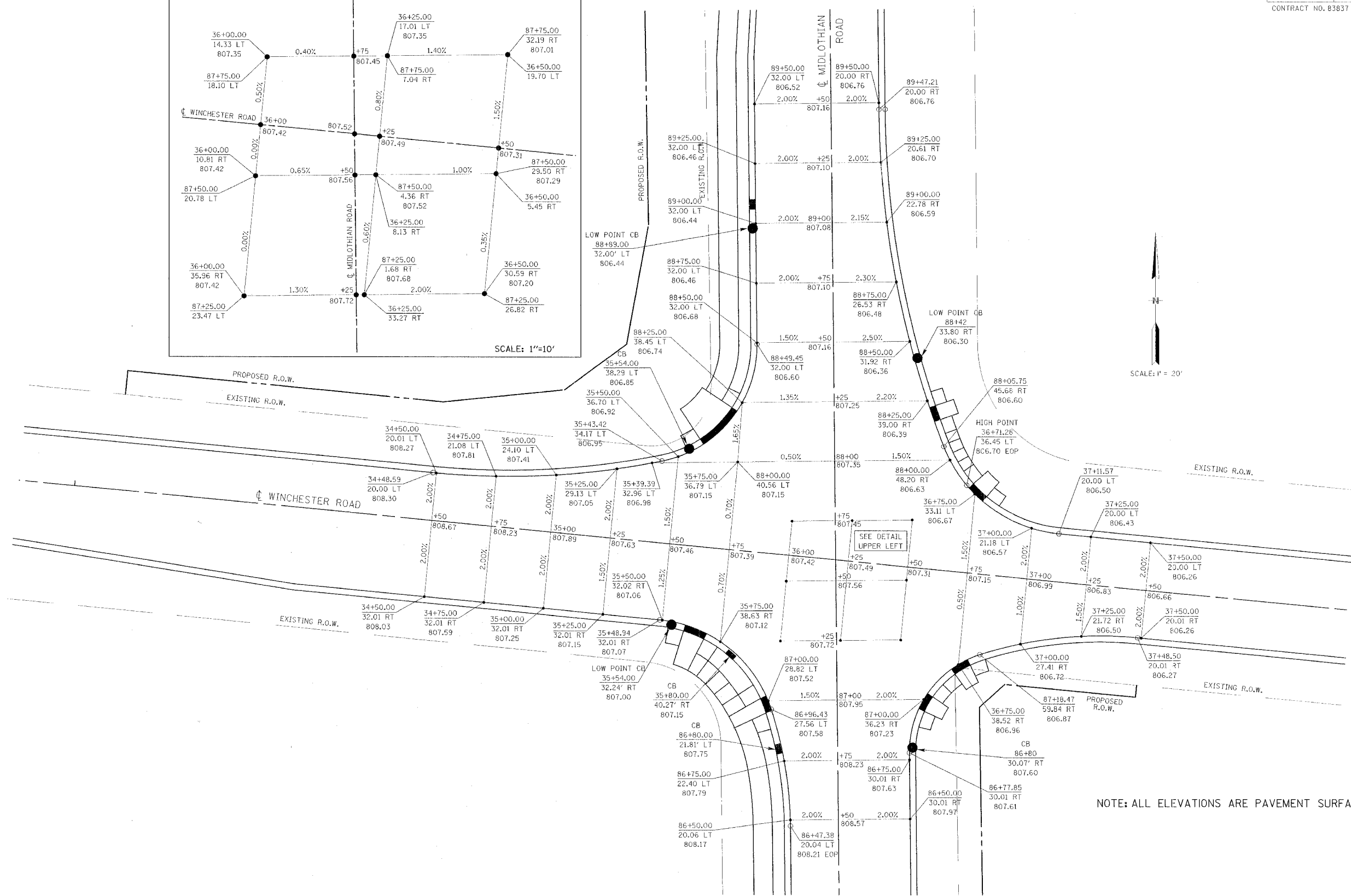
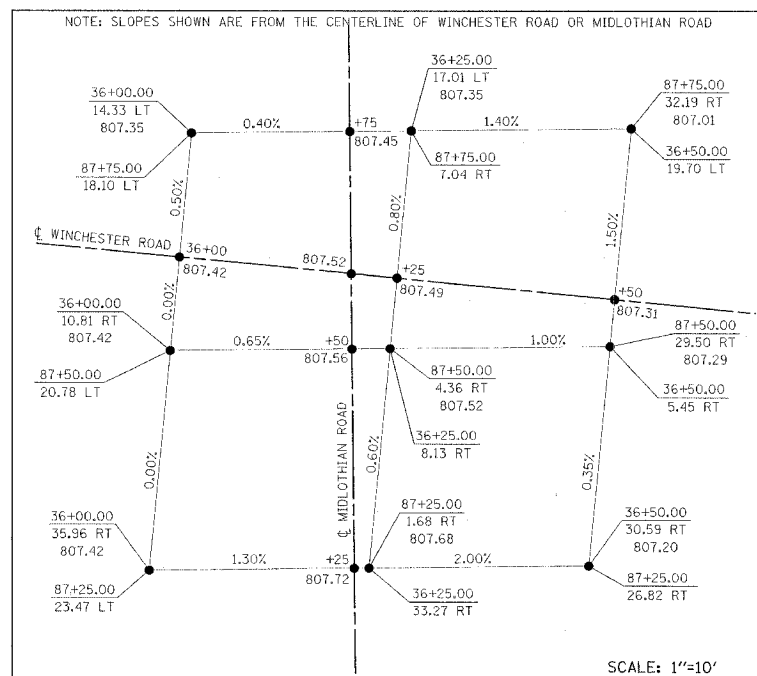


EROSION CONTROL LEGEND

- SODDING
- SEEDING TYPE 2A
- RIPRAP (SEE PLAN & PROFILE FOR DETAILS)
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT TRAP
- DITCH CHECK
- INLET PROTECTION, SPECIAL
- FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
- PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

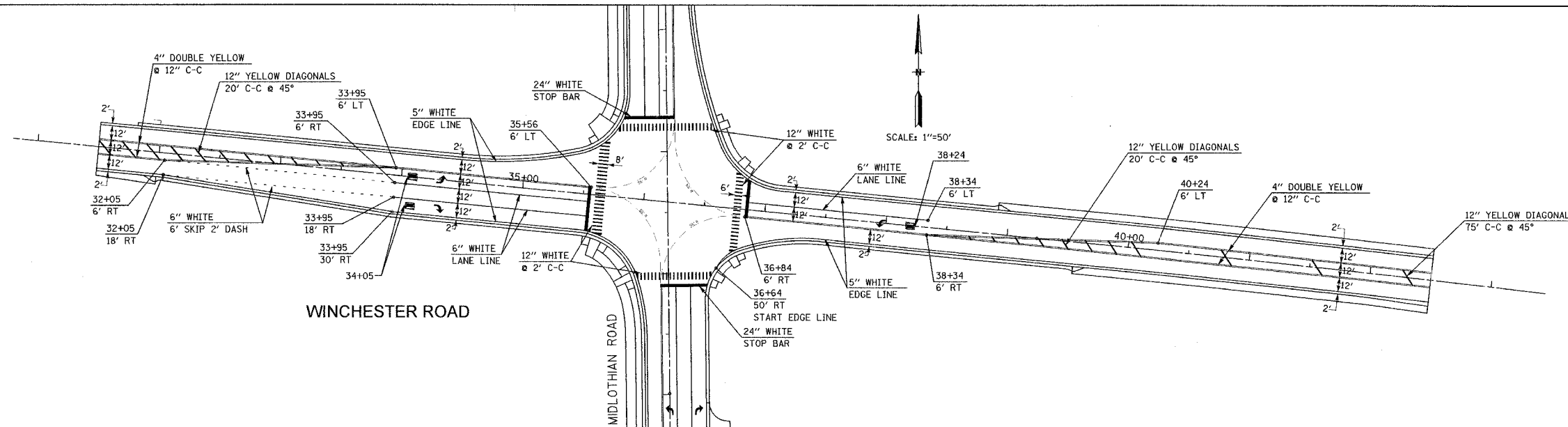


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	24
INTERSECTION GRADING PLAN				
FED. ROAD DIST. NO. 5		ILLINOIS	PROJECT CMM-8003(207)	
CONTRACT NO. 83837				



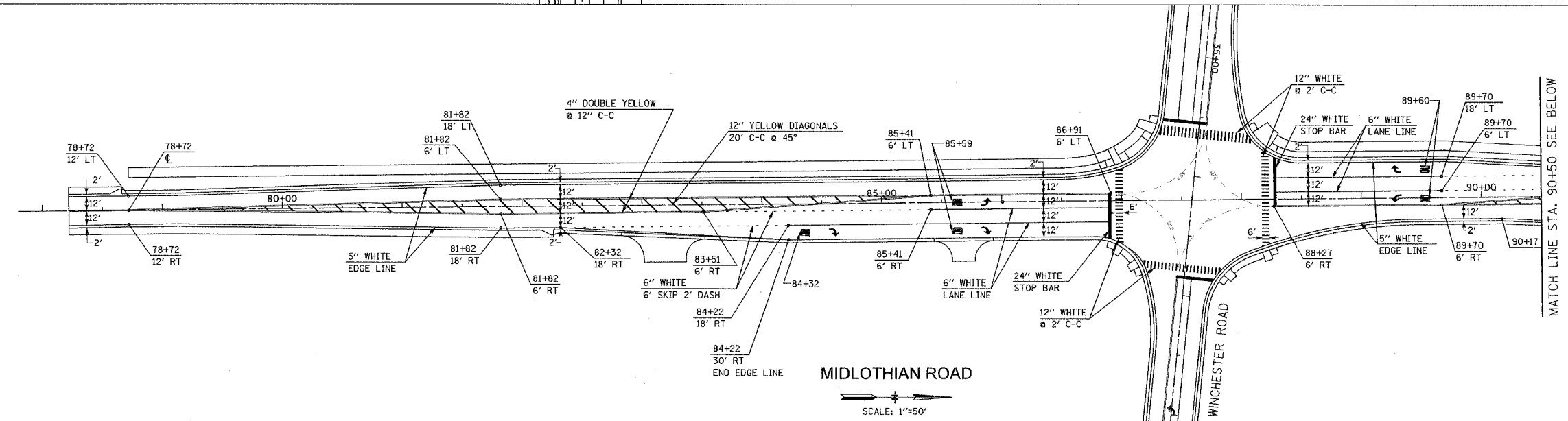
NOTE: ALL ELEVATIONS ARE PAVEMENT SURFACE.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2805 1233	02-00170-09-CH	LAKE	66	26
PAVEMENT MARKING PLAN				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				

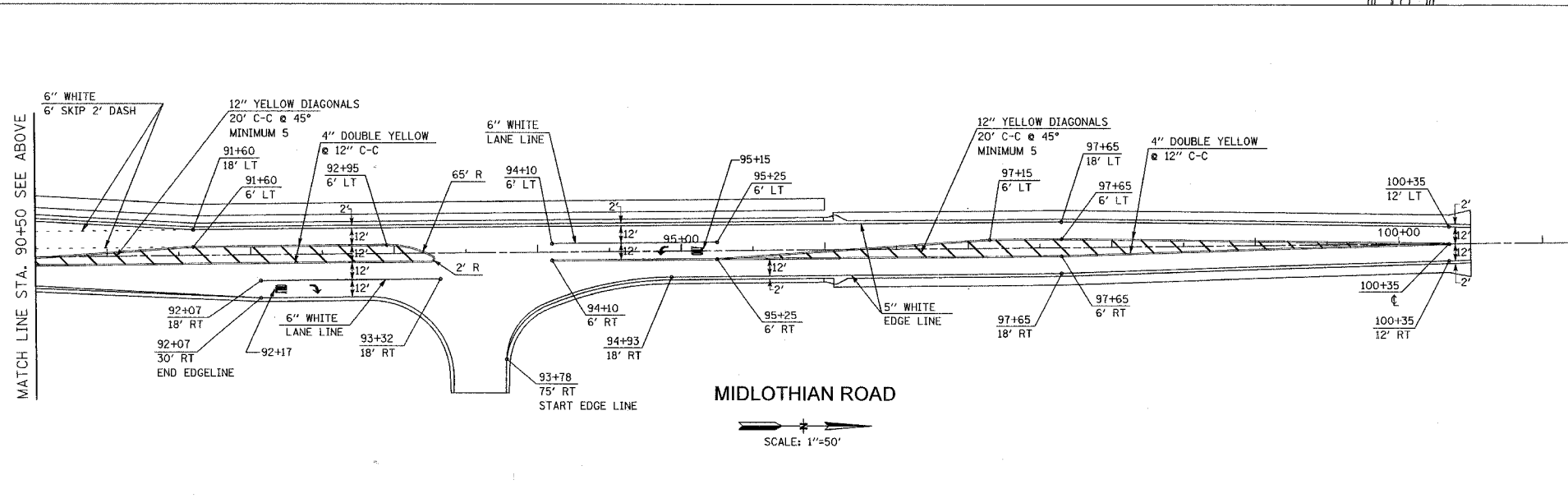


TURN LANE LINES, STOP BARS, CHANNELIZATION MEDIANS, DIAGONAL LINES, LETTERS & SYMBOLS AND INTERSECTION RADIUS RETURN EDGE LINES SHALL BE THERMOPLASTIC. ALL OTHER EDGE LINES AND CENTERLINES SHALL BE PAINT.

SEE LCDOT STANDARD DETAIL OF TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS FOR TURN BAY PAVEMENT MARKINGS.



MATCH LINE STA. 90+50 SEE BELOW



MATCH LINE STA. 90+50 SEE ABOVE

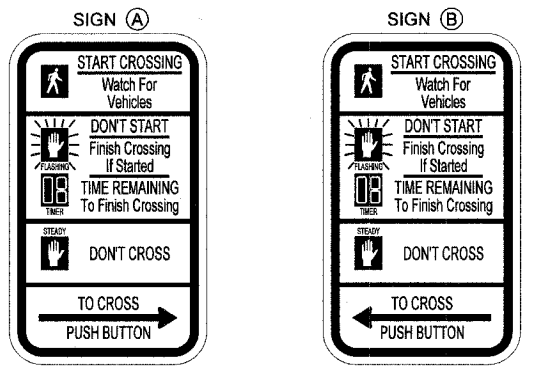
ILLINOIS HIGHWAY DEPARTMENT - CONTRACT NO. 83837

TRAFFIC SIGNAL FOUNDATIONS & STRUCTURES

ITEM	STATIONING	OFFSET	POSSIBLE UTILITY CONFLICT
P1	35+68	63.50' LT	-
P2	36+86	34.00' LT	GAS MAIN, BURIED TELEPHONE & ELEC.
P3	36+67	63.00' RT	NORTH SHORE GAS MAIN
P4	35+57	39.50' RT	-
M1	35+51	48.00' LT	O.H. ELECTRIC LINES
M2	36+65	62.00' LT	NORTH SHORE GAS MAIN
M3	36+85	42.00' RT	-
M4	35+86	60.00' RT	-
H1	35+50	56.00' LT	-
H2	36+79	56.00' LT	-
H3	36+82	49.00' RT	-
H4	35+60	53.00' RT	-

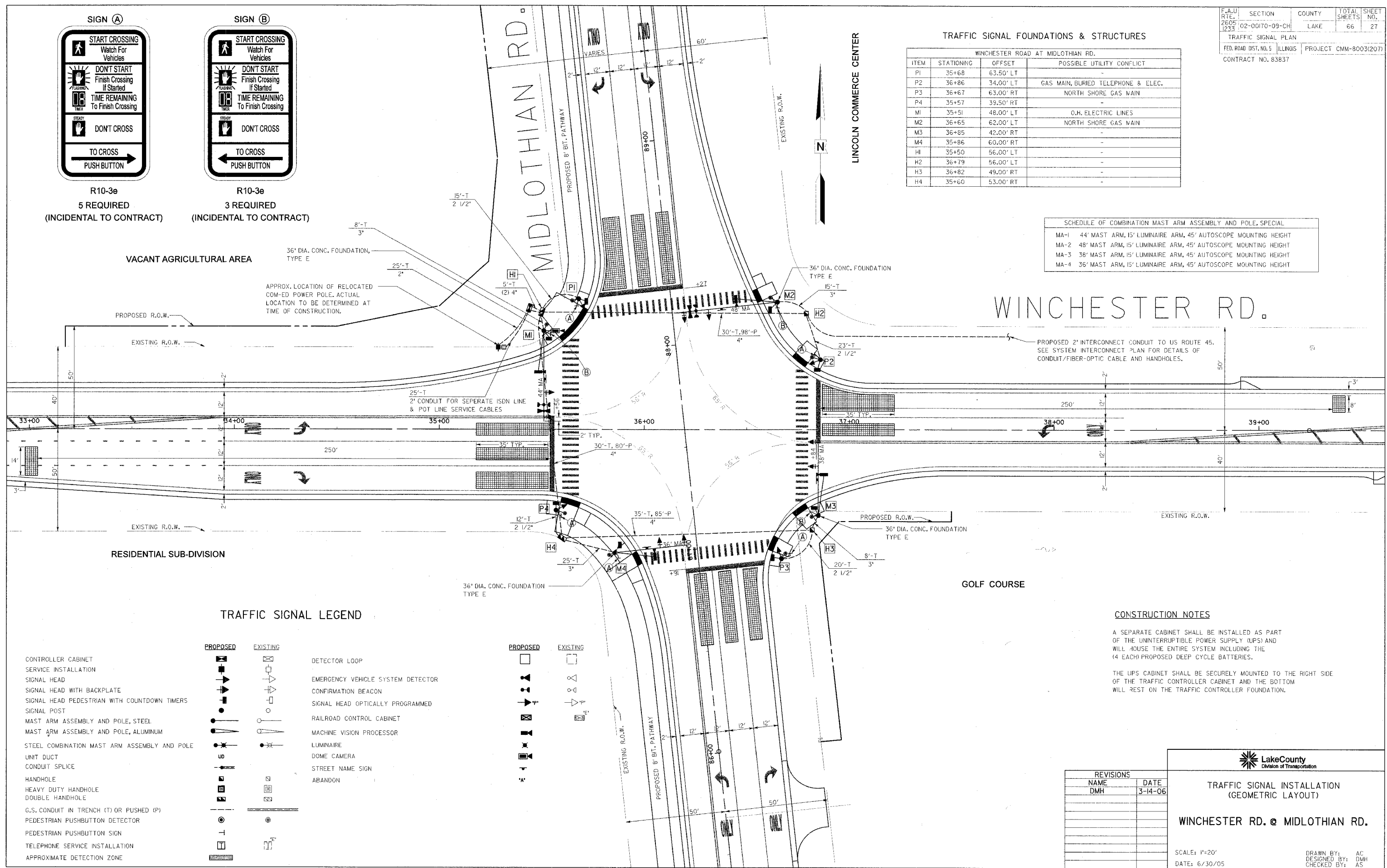
SCHEDULE OF COMBINATION MAST ARM ASSEMBLY AND POLE, SPECIAL

MA-1	44' MAST ARM, 15' LUMINAIRE ARM, 45' AUTOSCOPE MOUNTING HEIGHT
MA-2	48' MAST ARM, 15' LUMINAIRE ARM, 45' AUTOSCOPE MOUNTING HEIGHT
MA-3	38' MAST ARM, 15' LUMINAIRE ARM, 45' AUTOSCOPE MOUNTING HEIGHT
MA-4	36' MAST ARM, 15' LUMINAIRE ARM, 45' AUTOSCOPE MOUNTING HEIGHT



R10-3e
5 REQUIRED
(INCIDENTAL TO CONTRACT)

R10-3e
3 REQUIRED
(INCIDENTAL TO CONTRACT)



TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD PEDESTRIAN WITH COUNTDOWN TIMERS
[Symbol]	[Symbol]	SIGNAL POST
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, ALUMINUM
[Symbol]	[Symbol]	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	CONDUIT SPLICE
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON SIGN
[Symbol]	[Symbol]	TELEPHONE SERVICE INSTALLATION
[Symbol]	[Symbol]	APPROXIMATE DETECTION ZONE
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	MACHINE VISION PROCESSOR
[Symbol]	[Symbol]	LUMINAIRE
[Symbol]	[Symbol]	DOME CAMERA
[Symbol]	[Symbol]	STREET NAME SIGN
[Symbol]	[Symbol]	ABANDON

CONSTRUCTION NOTES

A SEPARATE CABINET SHALL BE INSTALLED AS PART OF THE UNINTERRUPTIBLE POWER SUPPLY (UPS) AND WILL HOUSE THE ENTIRE SYSTEM INCLUDING THE (4 EACH) PROPOSED DEEP CYCLE BATTERIES.

THE UPS CABINET SHALL BE SECURELY MOUNTED TO THE RIGHT SIDE OF THE TRAFFIC CONTROLLER CABINET AND THE BOTTOM WILL REST ON THE TRAFFIC CONTROLLER FOUNDATION.

REVISIONS

NAME	DATE
DMH	3-14-06

Lake County
Division of Transportation

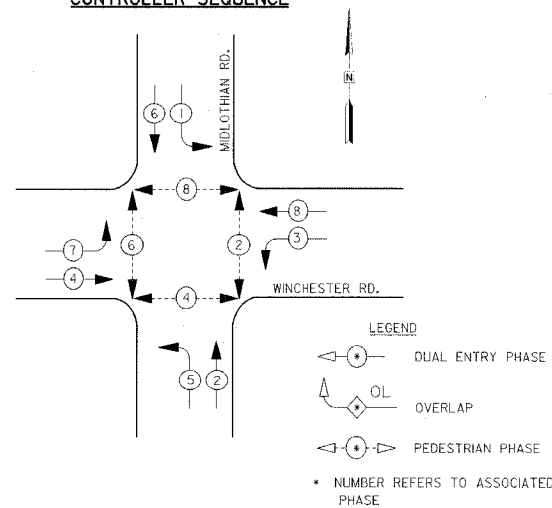
TRAFFIC SIGNAL INSTALLATION
(GEOMETRIC LAYOUT)

WINCHESTER RD. @ MIDLOTHIAN RD.

SCALE: 1"=20'
DATE: 6/30/05

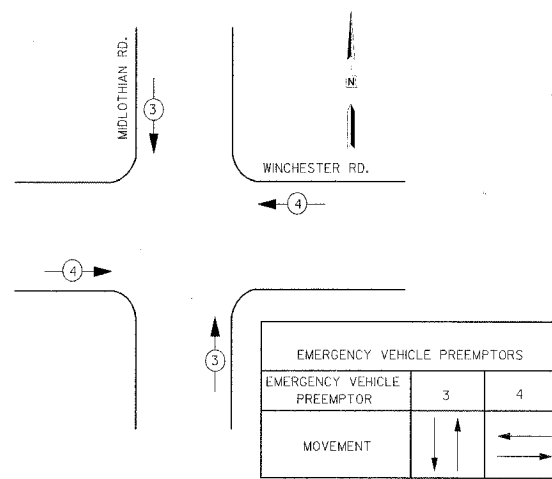
DRAWN BY: AC
DESIGNED BY: DMH
CHECKED BY: AS

CONTROLLER SEQUENCE

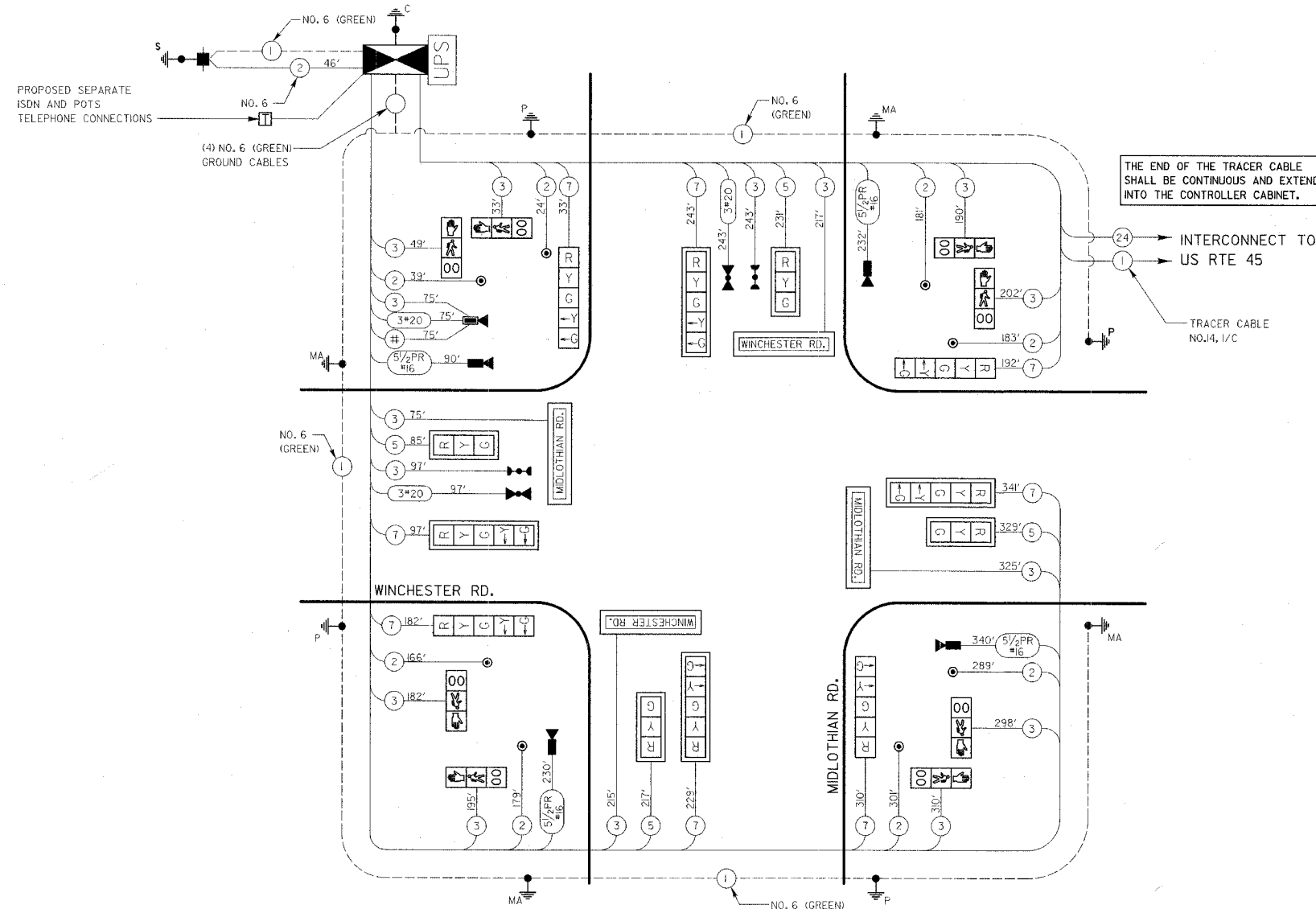


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN



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

INTERCONNECT TO US RTE 45

TRACER CABLE NO. 4, 1/C

CABLE PLAN LEGEND

- | EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|--|
| | | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | | 2" (50mm) TRAFFIC SIGNAL SECTION |
| | | 2" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | 2" (300mm) PEDESTRIAN SIGNAL FACE WITH COUNTDOWN FEATURE |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP LEAD-IN CABLE TO BE SHIELDED. |
| | | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM2F SM2F |
| | | # COAXIAL CABLE IN CONDUIT BELDEN 828RG-59U TYPE COAXIAL |
| | | R Y G A P SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, "NO LEFT TURN" |
| | | ILLUMINATED SIGN, "NO RIGHT TURN" |
| | | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C). |
| | | GROUND ROD AT POST (P), OR MAST ARM POLE (MA). |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | ILLUMINATED STREET NAME SIGN WITH PHOTOCELL |
| | | MACHINE VISION PROCESSOR (MVP) |
| | | DOMED PAN/TILT/ZOOM (PTZ) CAMERA |
| | | UNINTERRUPTIBLE POWER SUPPLY |

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	84
CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL	FOOT	76
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	68
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	95
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	263
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
TRENCH & BACKFILL FOR ELECTRICAL WORK	FOOT	323
FULL-ACTUATED CONTROLLER, IN TYPE IV CABINET, NEMA-TS2, (SPECIAL)	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,362
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,706
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	862
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,627
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	46
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. (SPECIAL)	FOOT	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4

ITEM	UNIT	QUANTITY
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	52
TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	8
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSHBUTTON, LED	EACH	8
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	610
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20, 3C	FOOT	340
SIGNAL HEAD POLY, L.E.D., I-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD POLY, L.E.D., I-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD POLY, L.E.D., I-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20, 3C	FOOT	75
VIDEO TRANSMISSION SYSTEM	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	75
ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 16, 5.5 PAIR	FOOT	892
TRAFFIC SIGNAL POST, 16 FT. (SPECIAL)	EACH	4
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EA	4
REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1
VIDEO DETECTION SYSTEM, (COMPLETE INTERSECTION)	EACH	1
INTERSECTION MONITOR MODULE	EACH	1
PED. SIGNAL HEAD, L.E.D., I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8

L.D.Q.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATION		
SIGNAL (RED)	12	10	0.50		60.0
(YELLOW)	12	19	0.25		57.0
(GREEN)	12	4	0.25		33.0
ARROW	16	3	0.80		14.4
PED. SIGNAL	8	9	1.00		72.0
CONTROLLER	1	100	1.00		100.0
BATT. BACK UP	1	25	1.00		25.0
VIDEO SYSTEM	1	150	1.00		150.0
ILLUM. STREET SIGN	4	84	0.50		336.0
FLASHER			0.50		0.50
ENERGY COSTS TO: (NEW SERVICE) TOTAL =					404.4

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL CABLE	FT. (m)
TYPE A - POST	4' (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4' (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' ± L-2"
E - M. ARM POLE	4' (1.2)	SIGNAL POST	2 (0.6)	16m ± L-0.6m ±	
C30" MA 30" DIA.	10' (3.0)	CONTROLLER CAB.	1 (0.3)	BRACKET MOUNTED	13 (4.0)
C40" MA 30" DIA.	3'-6" (1.0)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
C40" MA 36" DIA.	1' (0.3)	ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.5 (4.0)
C50" MA 36" DIA.	13' (4.0)	GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.0)
C50" MA 36" DIA.	15' (4.6)			POST MOUNTED	6 (1.8)

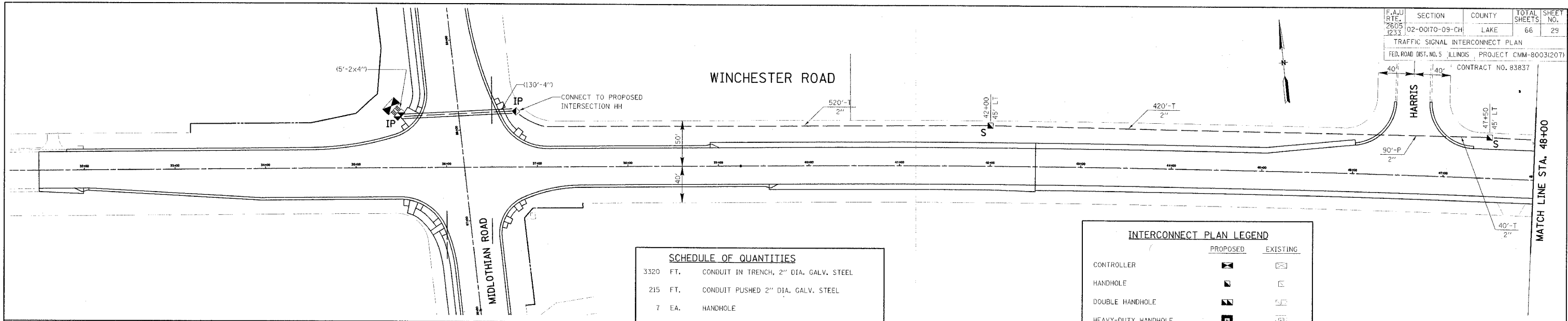
THE EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENT FOR THIS PROJECT SHALL BE LATEST TYPE "OPTICOM" AS MANUFACTURED BY 3-M COMPANY.

REVISIONS	
NAME	DATE
DMH	3-14-06

CABLE PLAN
 PHASE DESIGNATION DIAGRAM
 SCHEDULE OF QUANTITIES
WINCHESTER RD. @ MIDLOTHIAN RD.

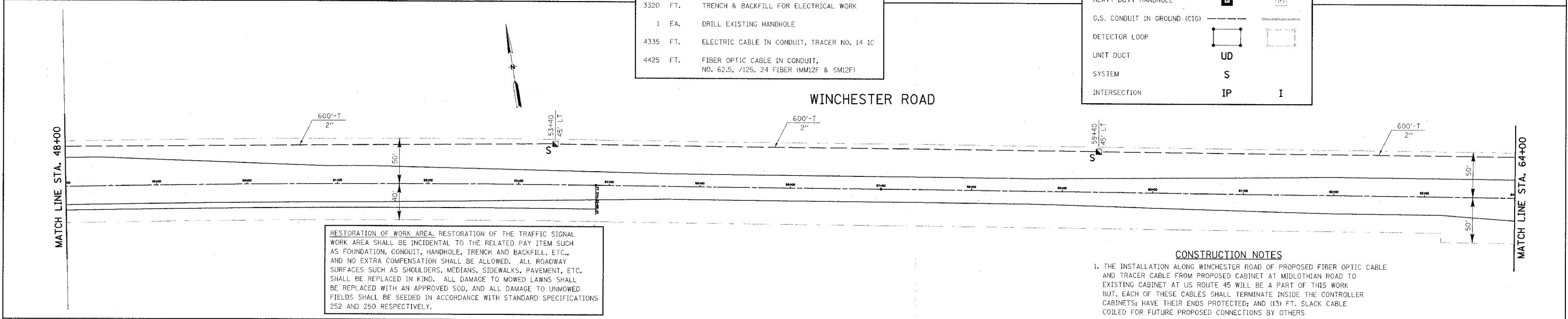
SCALE: NONE
DATE: 6/30/05
DRAWN BY: AC
DESIGNED BY: DMH
CHECKED BY: AS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	29
TRAFFIC SIGNAL INTERCONNECT PLAN				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				



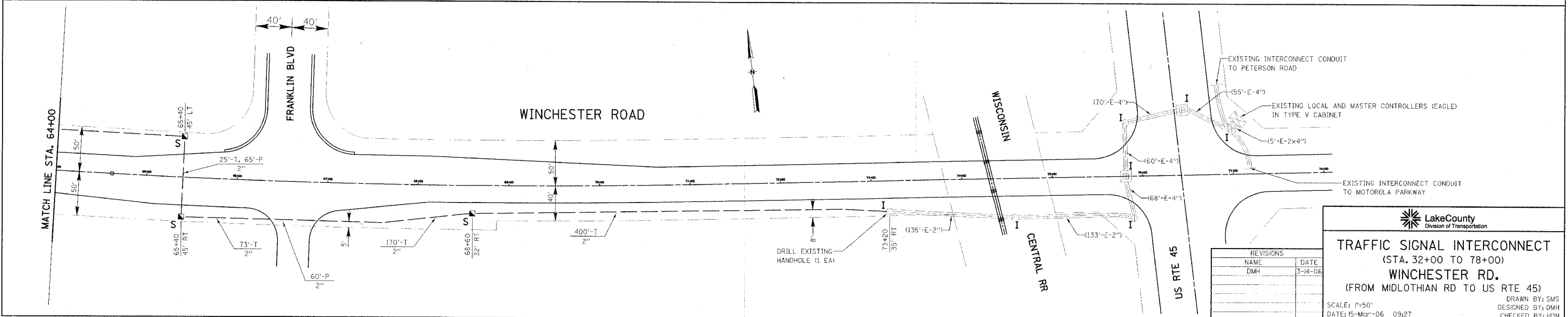
SCHEDULE OF QUANTITIES	
3320 FT.	CONDUIT IN TRENCH, 2" DIA. GALV. STEEL
215 FT.	CONDUIT PUSHED 2" DIA. GALV. STEEL
7 EA.	HANDHOLE
3320 FT.	TRENCH & BACKFILL FOR ELECTRICAL WORK
1 EA.	DRILL EXISTING HANDHOLE
4335 FT.	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C
4425 FT.	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5, /125, 24 FIBER (MM12F & SM12F)

INTERCONNECT PLAN LEGEND		
	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CONSTRUCTION NOTES
 1. THE INSTALLATION ALONG WINCHESTER ROAD OF PROPOSED FIBER OPTIC CABLE AND TRACER CABLE FROM PROPOSED CABINET AT MIDLOTHIAN ROAD TO EXISTING CABINET AT US ROUTE 45 WILL BE A PART OF THIS WORK BUT, EACH OF THESE CABLES SHALL TERMINATE INSIDE THE CONTROLLER CABINETS; HAVE THEIR ENDS PROTECTED; AND (13) FT. SLACK CABLE COILED FOR FUTURE PROPOSED CONNECTIONS BY OTHERS



REVISIONS	
NAME	DATE
DMH	3-14-06

Lake County
Division of Transportation

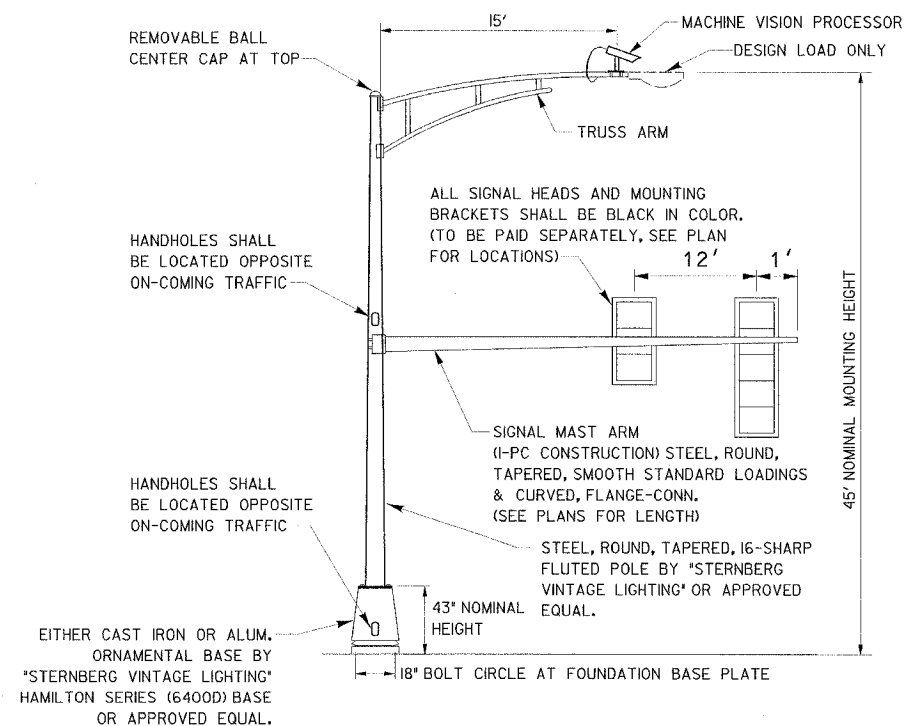
TRAFFIC SIGNAL INTERCONNECT
(STA. 32+00 TO 78+00)
WINCHESTER RD.
(FROM MIDLOTHIAN RD TO US RTE 45)

SCALE: 1"=50'
DATE: 15-Mar-06 09:27

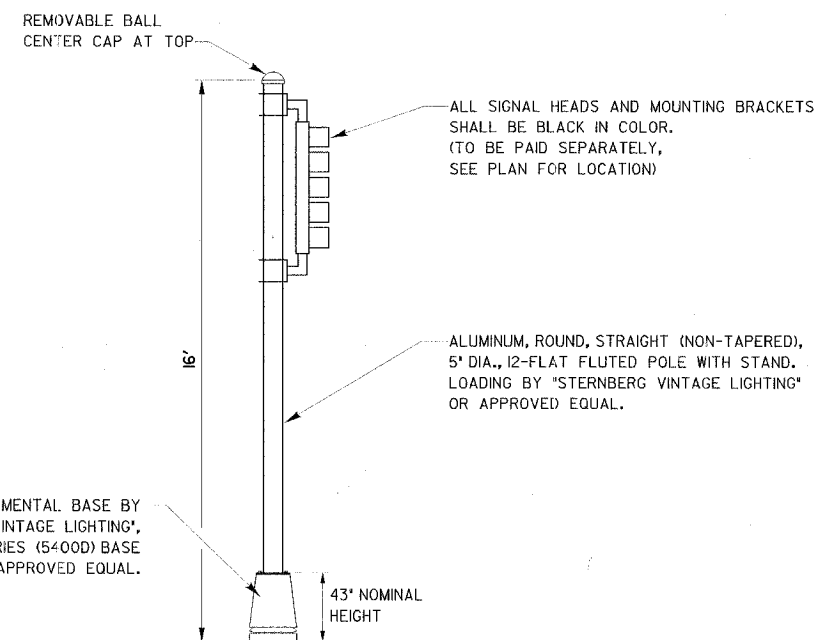
DRAWN BY: SMS
DESIGNED BY: DMH
CHECKED BY: HDN

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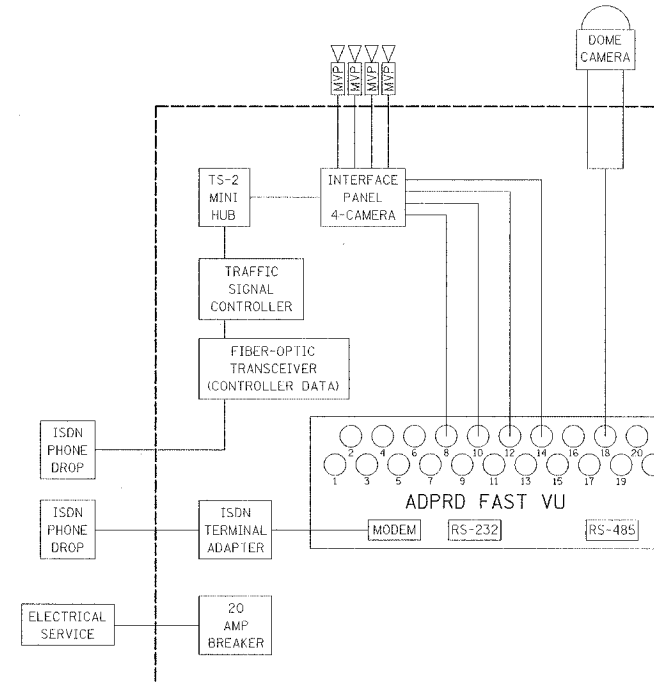
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	30
TRAFFIC SIGNAL DESIGN DETAILS				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-80031207				
CONTRACT NO. 83837				



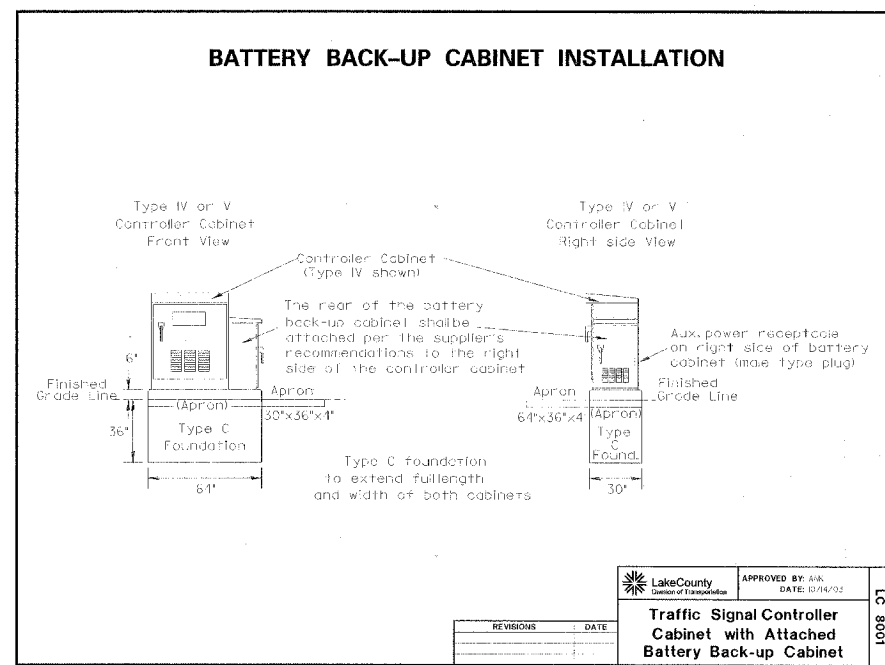
DETAIL
STEEL COMBINATION MAST ARM ASSEMBLY
AND POLE (SPECIAL)
COLOR: BLACK



DETAIL
TRAFFIC SIGNAL POST (SPECIAL)
COLOR: BLACK

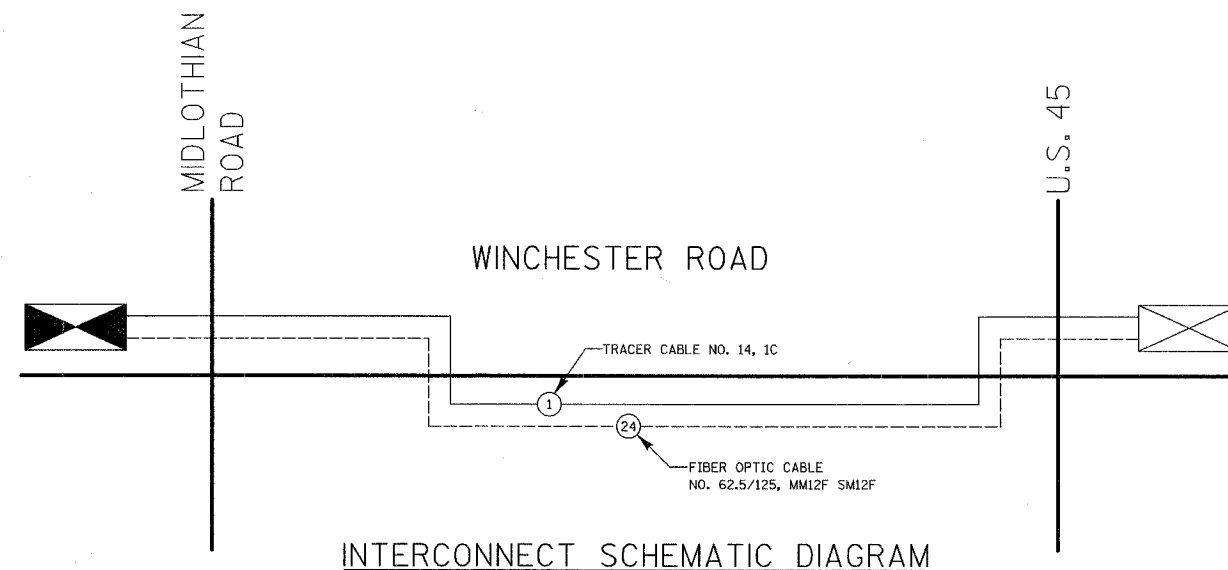


WINCHESTER ROAD
TRAFFIC SIGNAL CABINET
VIDEO SYSTEM SCHEMATIC



REVISIONS		DATE

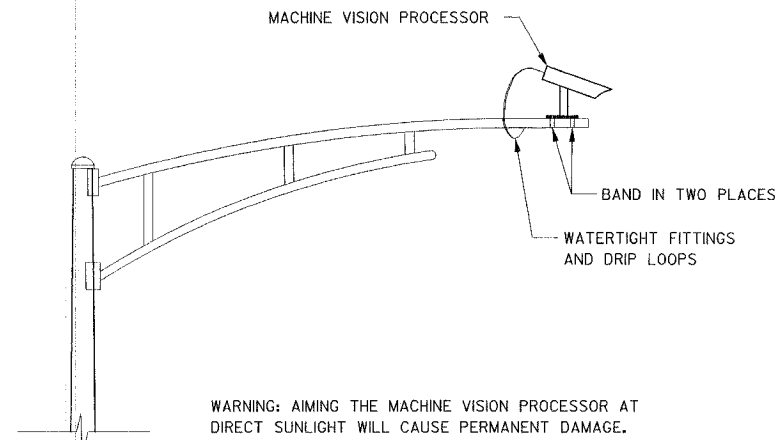
Lake County
 Division of Transportation
 APPROVED BY: [Signature]
 DATE: 12/14/05
Traffic Signal Controller Cabinet with Attached Battery Back-up Cabinet
 LC 8001



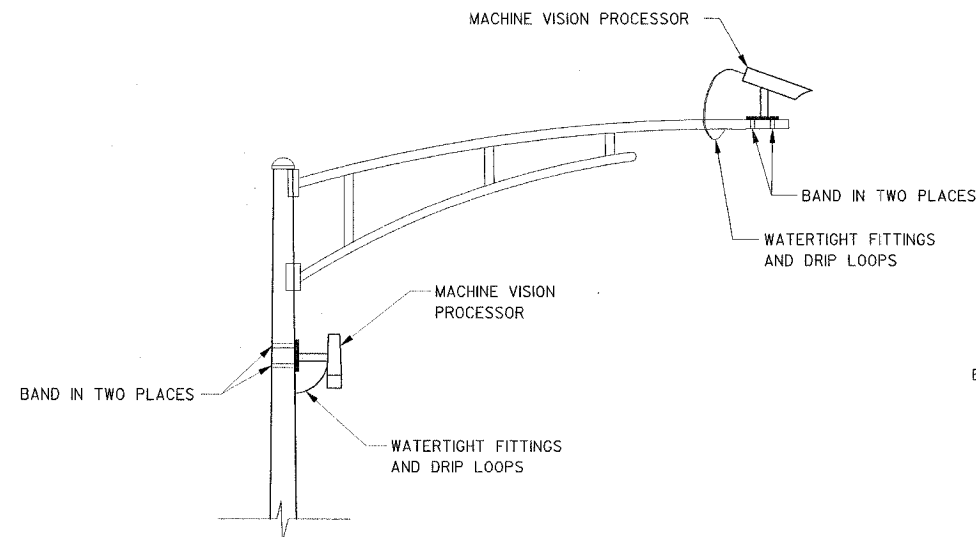
INTERCONNECT SCHEMATIC DIAGRAM

REVISIONS		DATE	TRAFFIC SIGNAL DESIGN DETAILS WINCHESTER RD AT MIDLOTHIAN RD SCALE: NONE DATE: 13-Dec-05 15:20 DRAWN BY: SMS DESIGNED BY: DMH CHECKED BY: MAS

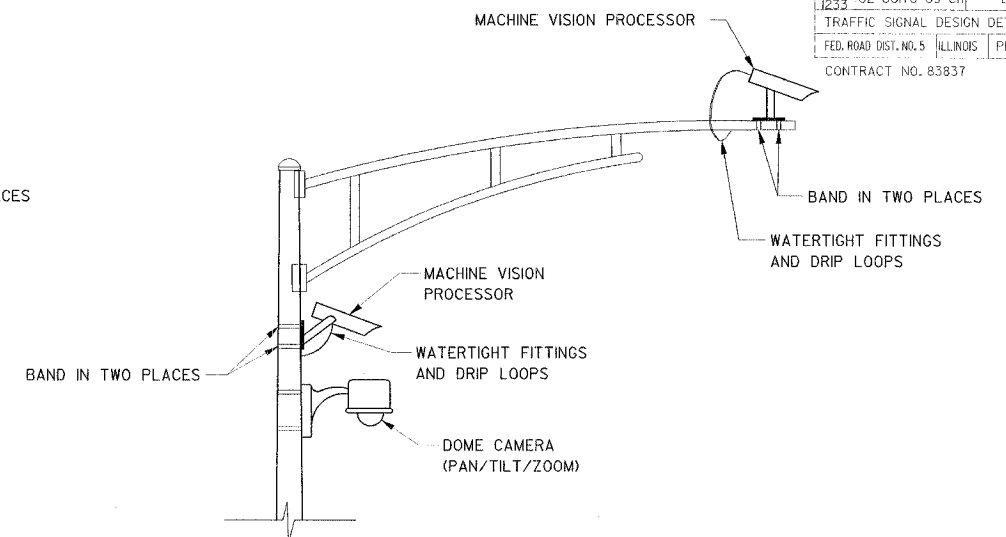
F.A.U. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 02-00170-09-CH	LAKE	66	31
TRAFFIC SIGNAL DESIGN DETAILS			
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-8003(207)
CONTRACT NO. 83837			



MACHINE VISION PROCESSOR MOUNTING DETAIL
(NOT TO SCALE)

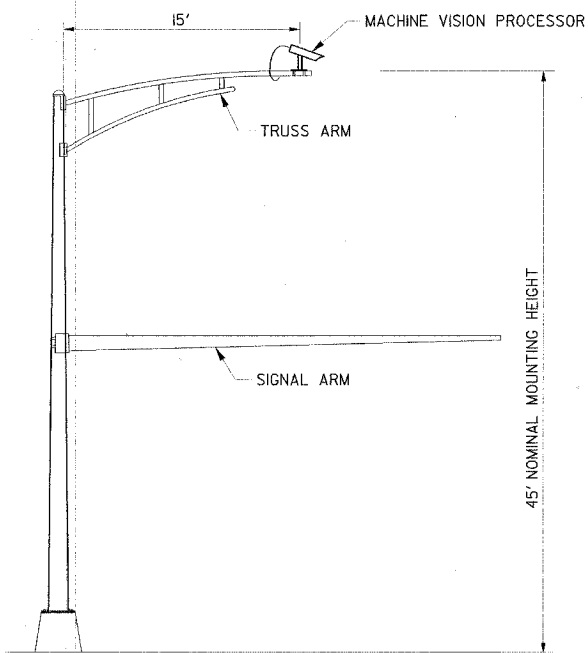


DUAL MACHINE VISION PROCESSORS MOUNTING DETAIL
(NOT TO SCALE)



DUAL MACHINE VISION PROCESSORS AND DOME (PTZ) CAMERA MOUNTING DETAIL
(NOT TO SCALE)

- NOTES FOR SINGLE, DUAL AND MULTIPLE MVP MOUNTING:
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
 - AIM BRACKET TOWARD DIRECTION OF TRAFFIC TO BE DETECTED.
 - MOUNT MACHINE VISION PROCESSOR AIMING DOWN AT 30 DEGREE ANGLE.



COMBINATION MAST ARM ASSEMBLY MOUNTING DETAIL
(NOT TO SCALE)

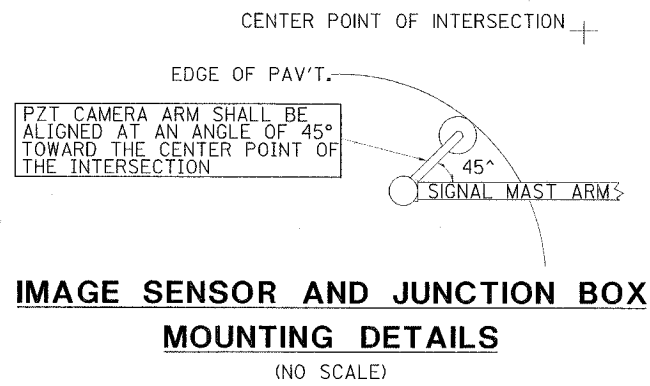
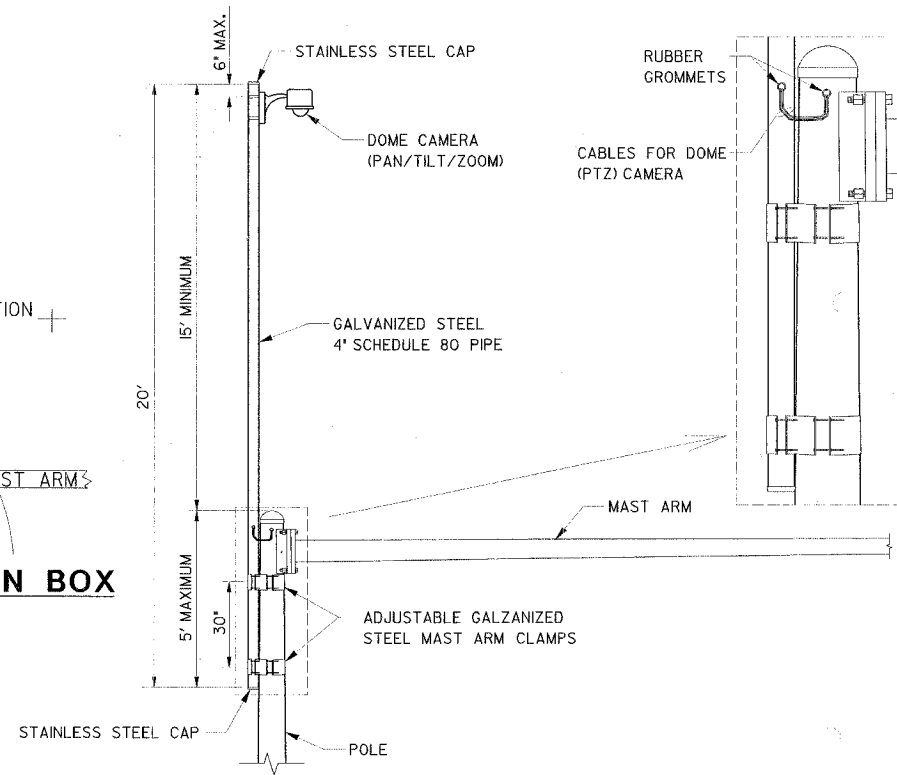
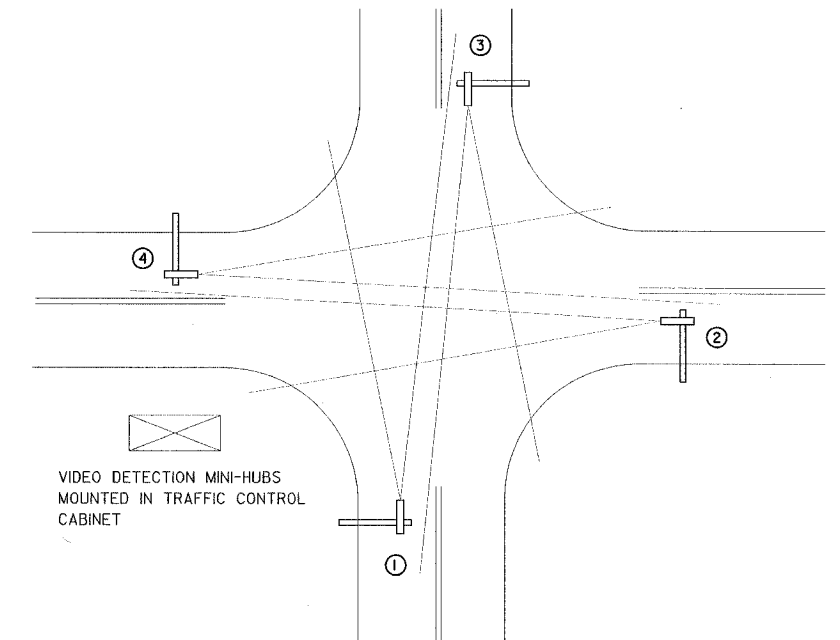


IMAGE SENSOR AND JUNCTION BOX MOUNTING DETAILS
(NO SCALE)



DOME CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)



TYPICAL VIDEO VEHICLE DETECTION SYSTEM
(NOT TO SCALE)

- (4) MACHINE VISION PROCESSOR ASSEMBLIES AND BRACKETS ① ② ③ ④
POWER CABLE TO EACH MACHINE VISION PROCESSOR (24 VAC)

REVISIONS	NAME	DATE

Lake County
Division of Transportation

VIDEO DETECTION DETAILS
VIDEO DETECTION SYSTEM
WINCHESTER RD AT MIDLOTHIAN RD

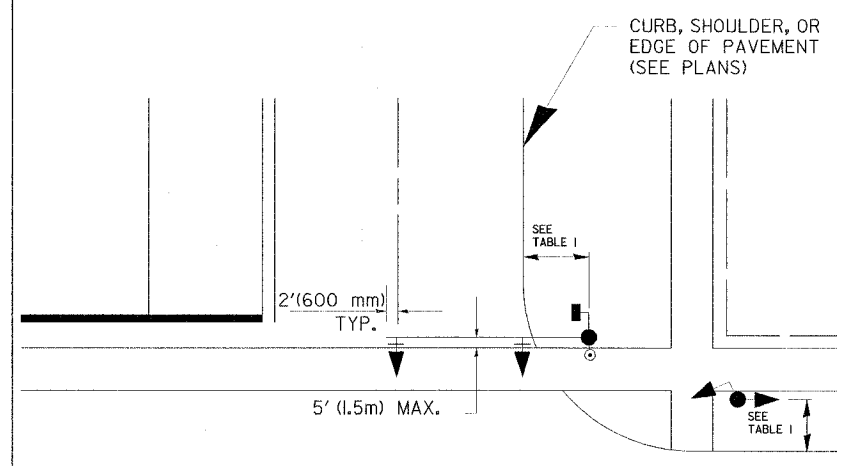
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DATE: 13-Dec-05 15:20

DESIGNED BY: JPS
CHECKED BY: ANK

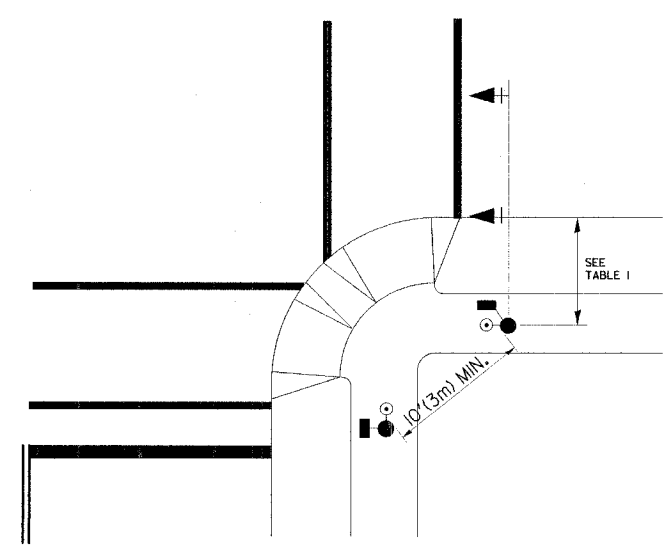
F.A.U. RTE. 123	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 32
TRAFFIC SIGNAL DESIGN DETAILS				
FED. ROAD DIST. NO. 5		ILLINOIS	PROJECT CMM-8003(207)	
CONTRACT NO. 83837				

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 - A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL-WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 - B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 - C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 - D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 - E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006, (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

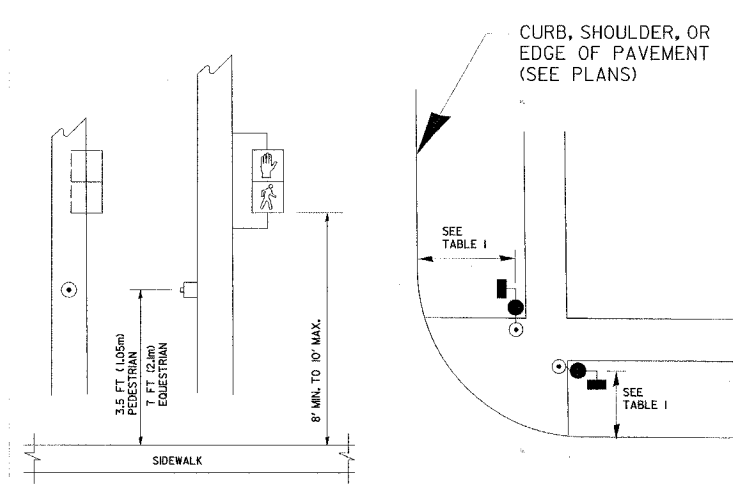


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT I
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. NONE
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

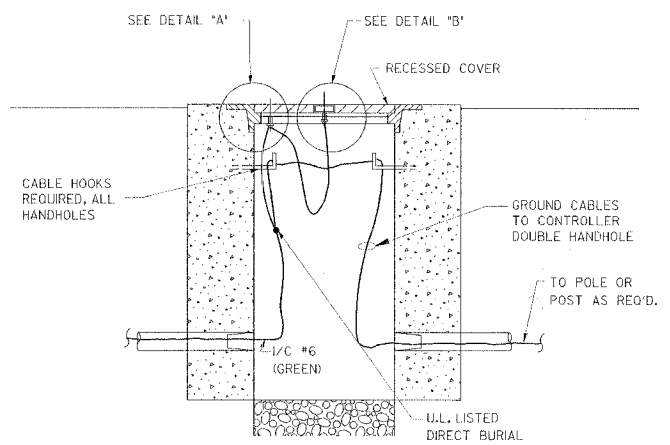
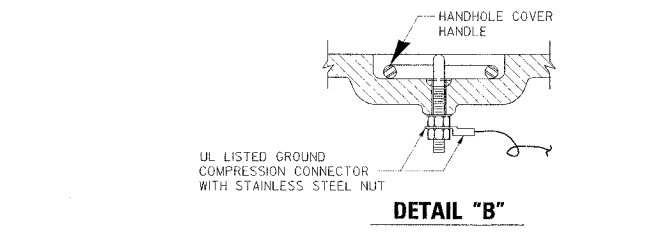
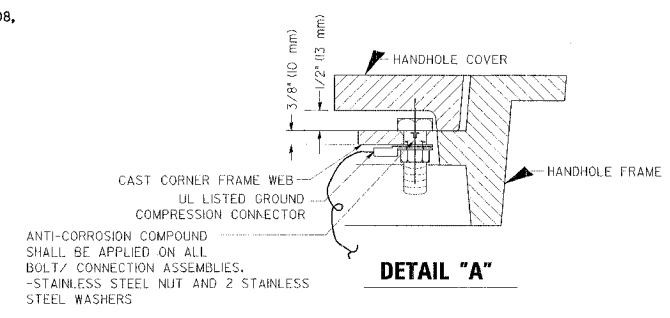
11/11/06 15:43:20/2-Phase 01 15:11:42/2a
01/11/06 15:43:20/2-Phase 01 15:11:42/2a

F.A.U. RTE. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 33
TRAFFIC SIGNAL DESIGN DETAILS				
FEB. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83637				

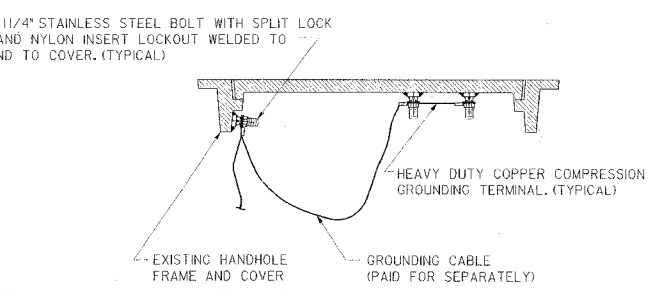
NOTES:

GROUNDING SYSTEM

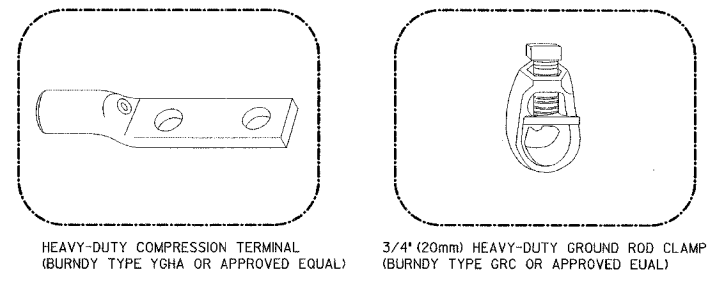
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE,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



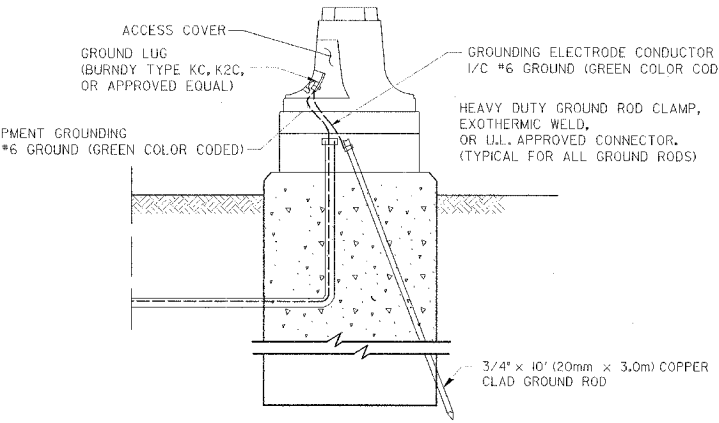
HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)



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



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



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

REVISIONS	
NAME	DATE

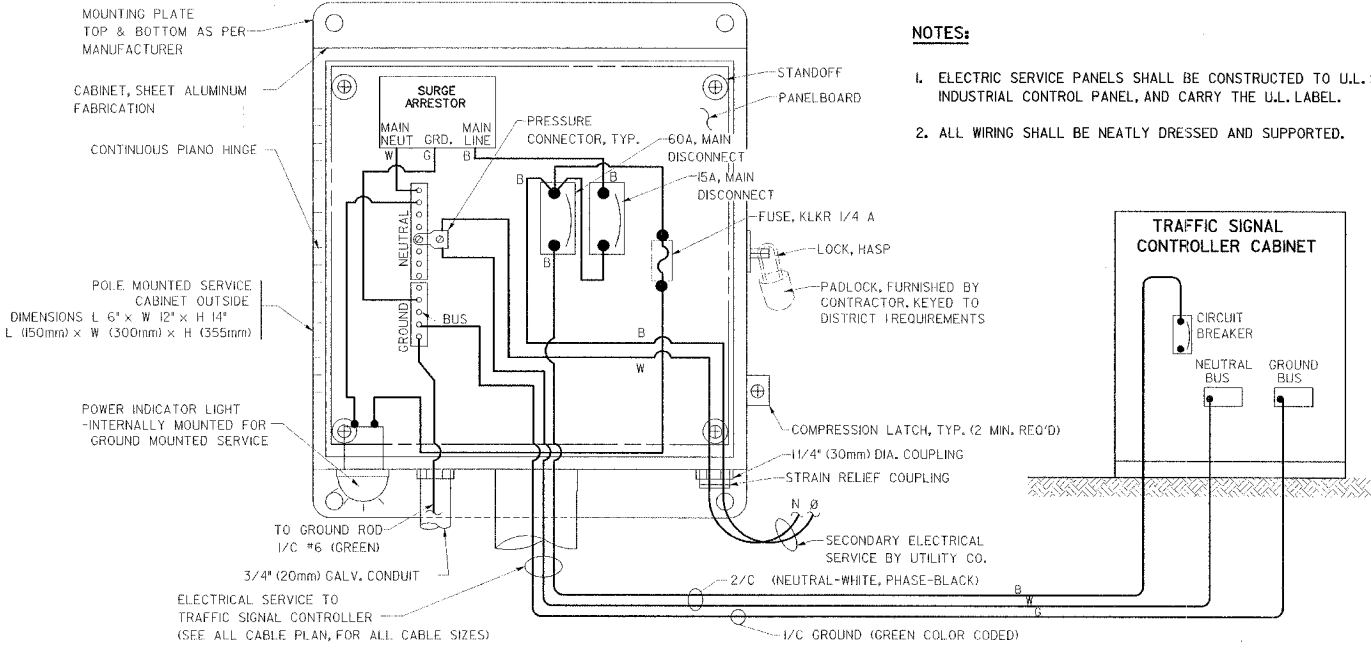
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT I
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. DATE 1-01-02

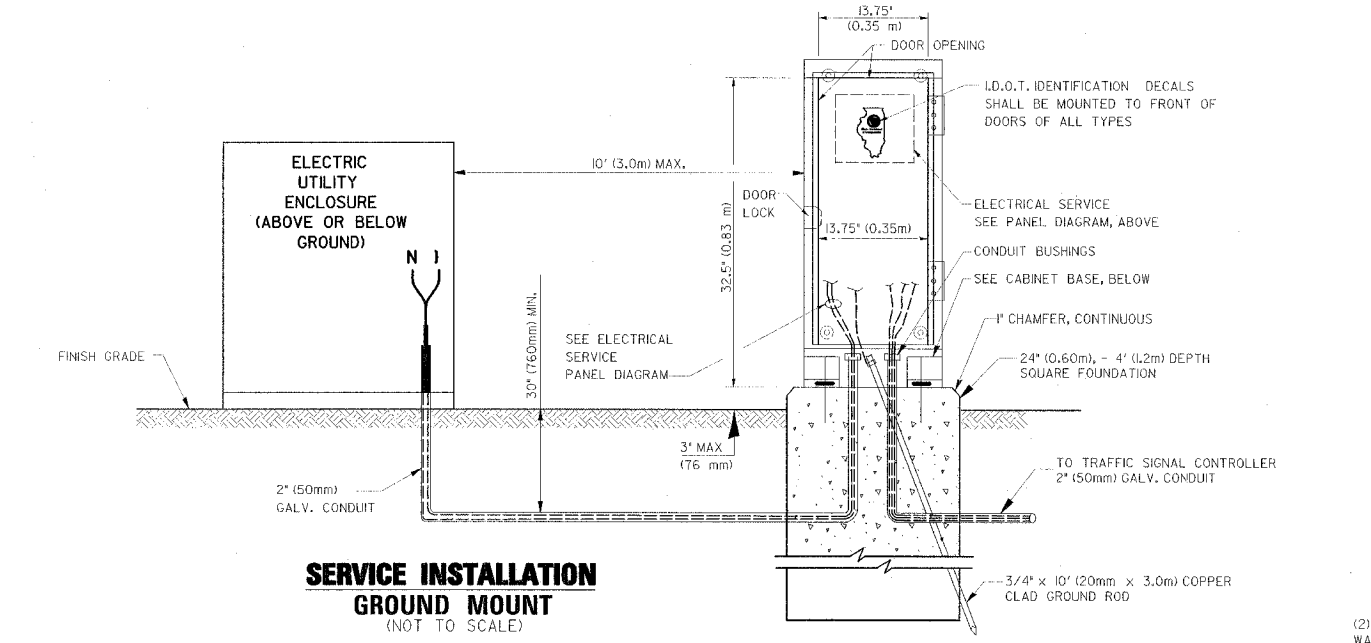
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: BAZ
SHEET 3 OF 4

NOTES:

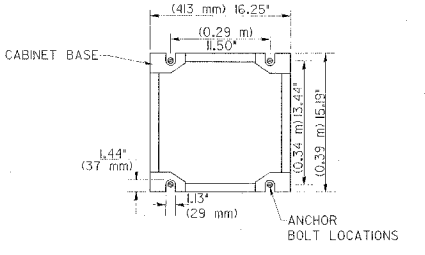
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



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



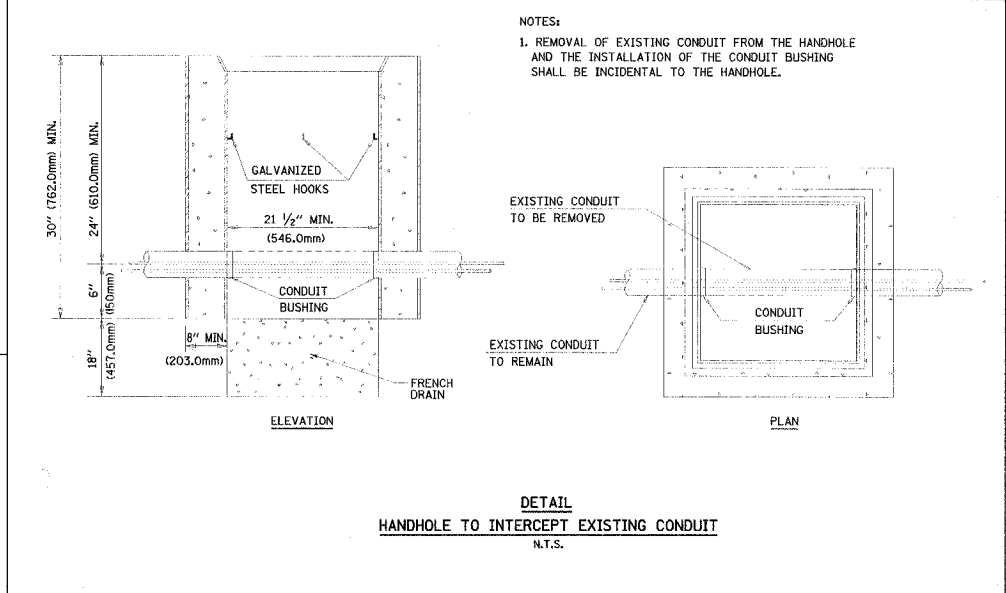
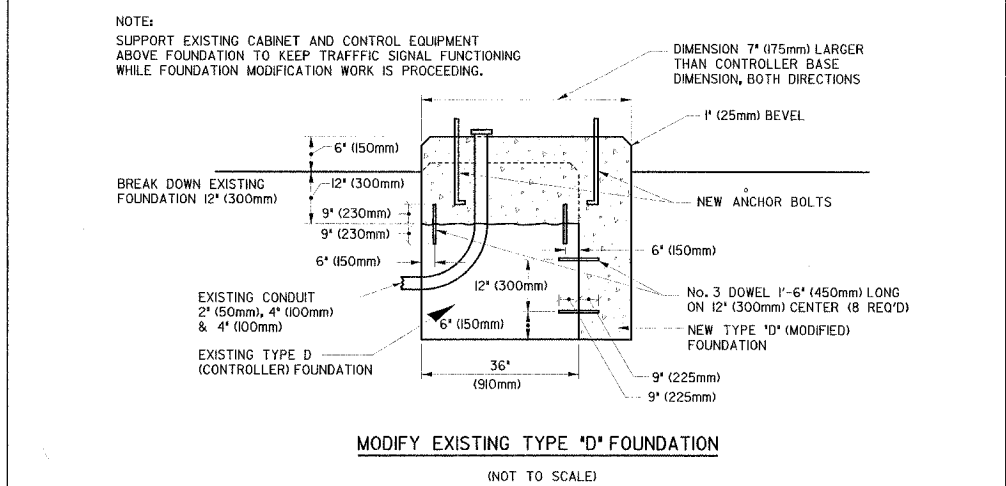
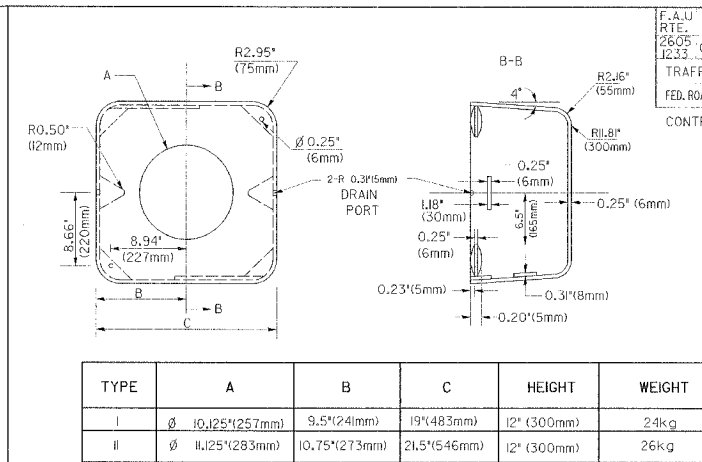
SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)



CABINET - BASE BOLT PATTERN
(NOT TO SCALE)

24/11/01 MS 102/01010102-Phase 1/15-10-01-01.dgn

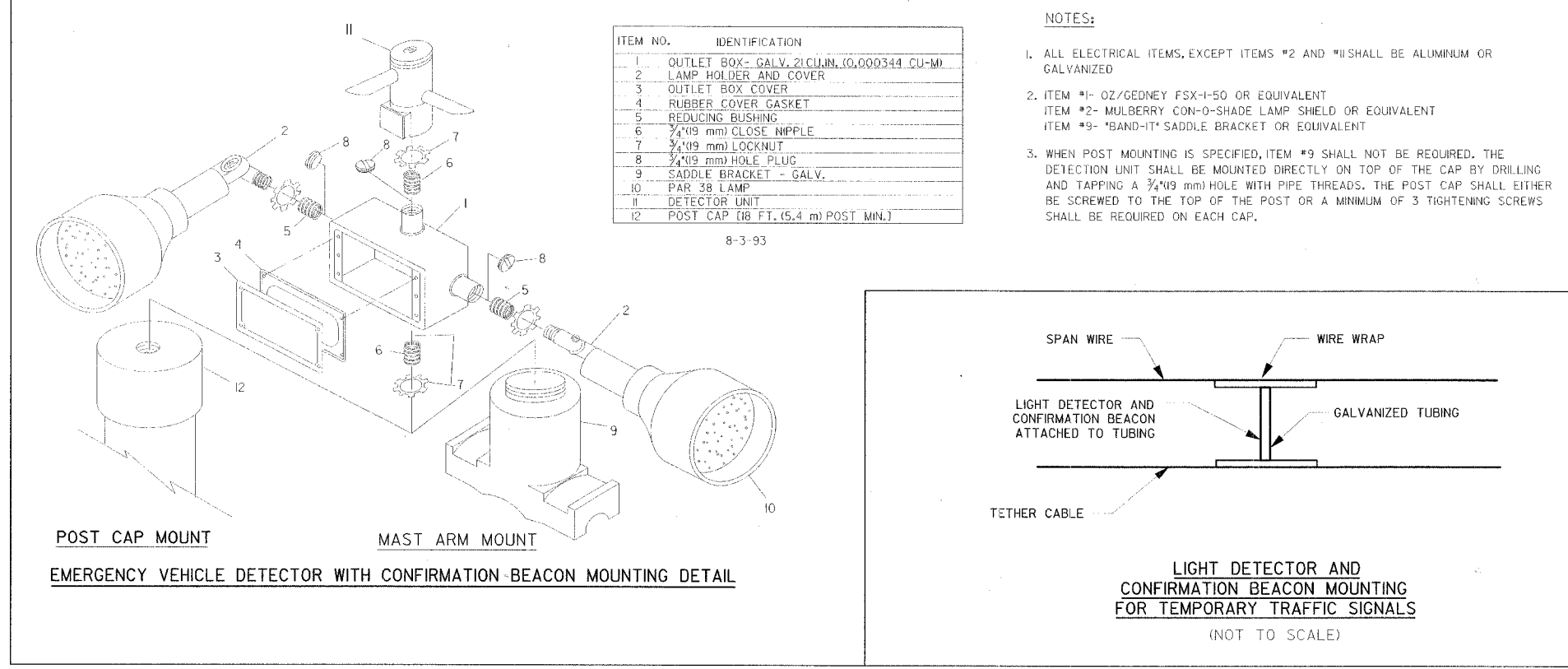
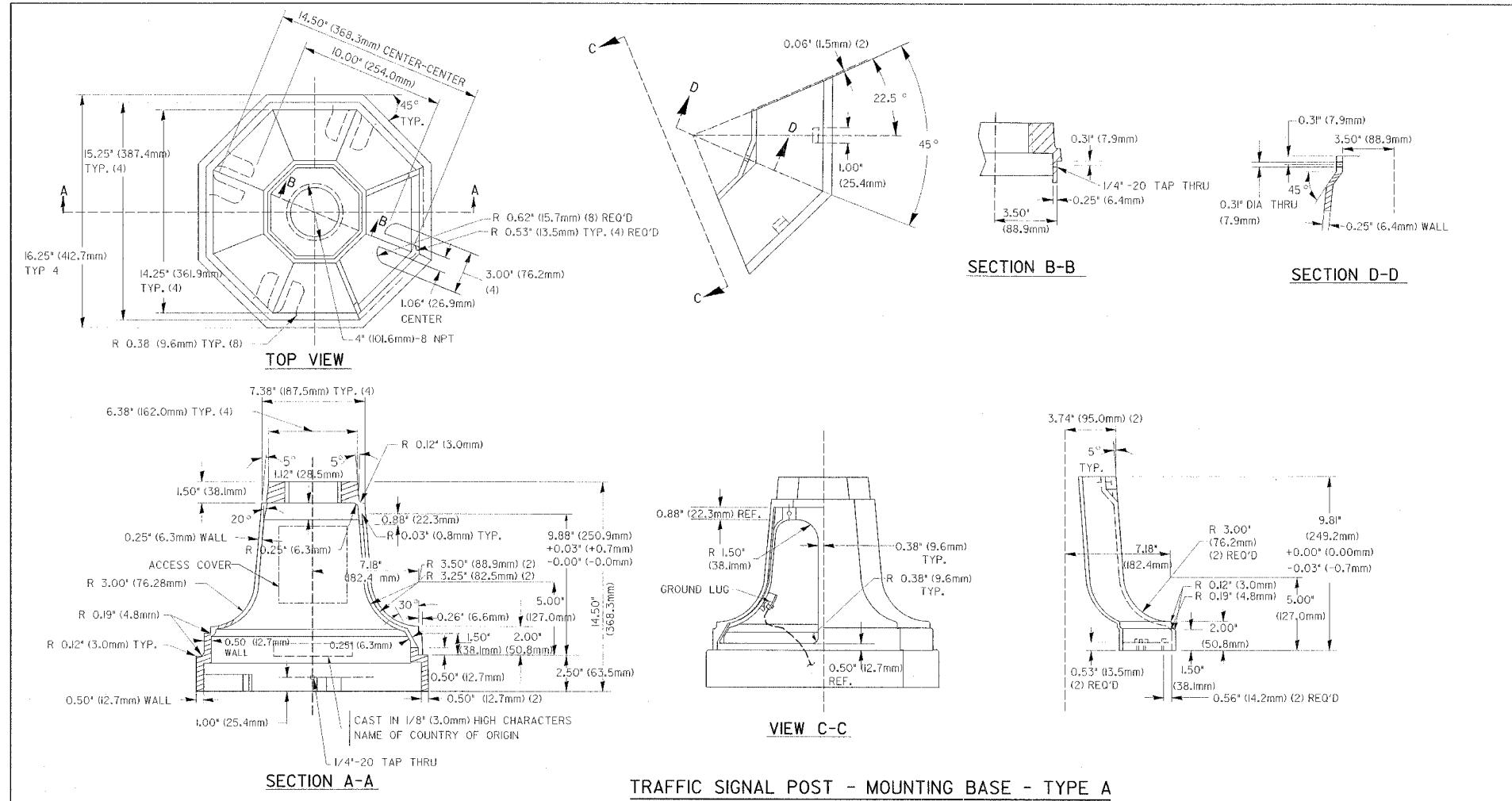
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233	02-00170-09-CH	LAKE	66	34
TRAFFIC SIGNAL DESIGN DETAILS				
FED. ROAD DIST. NO. 5		ILLINOIS	PROJECT CMM-8003(207)	
CONTRACT NO. 83837				



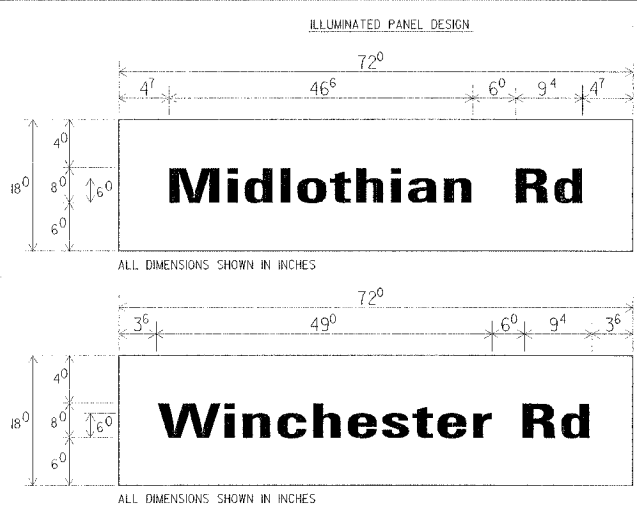
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DISTRICT I STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. DATE 1-01-92

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 4 OF 4



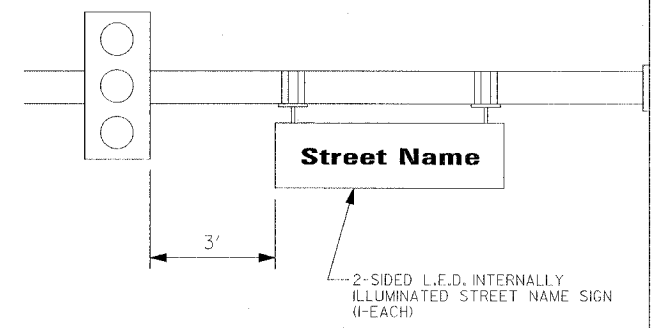
ILLINOIS DEPARTMENT OF TRANSPORTATION



2 REQUIRED
 SINGLE SIDED REQUIRED
 X DOUBLE SIDED REQUIRED
 DESIGN SERIES C

2 REQUIRED
 SINGLE SIDED REQUIRED
 X DOUBLE SIDED REQUIRED
 DESIGN SERIES C

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS AVAILABLE ONLY IN 2 FOOT INCREMENTS



UPPER TO LOWER CASE SPACING CHART 8-6 INCH SERIES "C & D" EXAMPLE, 2³—DENOTES 3/8"

SERIES	SECOND LETTER															
	a c d e		b h i k		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ²	1 ⁴
B	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴	2 ¹	1 ⁴	1 ⁶	1 ⁷
C E G	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
D O Q R	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
F	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²
H I M N	2 ⁰	2 ¹	2 ²	2 ⁴	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	2 ⁰	2 ¹
J U	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹
K L	1 ¹	1 ²	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
P	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ⁴
S	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
T	1 ¹	1 ²	1 ⁶	1 ⁷	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
V	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
Y	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁵	0 ⁷	0 ⁵	0 ⁶	0 ⁶	1 ⁰	1 ¹	1 ²
Z	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹

UPPER AND LOWER CASE LETTER WIDTHS

L E T T E R S	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		L E T T E R S	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES			SERIES	
	C	D	C	D		C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹
M	3 ²	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³
Z	3 ²	4 ⁰	4 ³	5 ³	z	3 ⁶	4 ³

LOWER CASE TO LOWER CASE SPACING CHART 6 INCH SERIES "C" & "D"

F I R S T L E T T E R	SERIES	SECOND LETTER															
		a c d e		b h i k		f w		j		s t		v y		x		z	
		C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
R	a d g h	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
S	i j l m																
T	n q u																
L	b f k o p s	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
E	c e	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
T	r	0 ⁶	1 ⁰	1 ²	1 ⁴	0 ⁶	1 ⁰	0 ³	0 ³	0 ⁵	0 ⁶	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰
T	t z	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
T	v y	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²
T	w	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
T	x	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴

NUMBER TO NUMBER SPACING CHART 8 INCH SERIES "C" & "D"

F I R S T N U M B E R	SERIES	SECOND NUMBER																			
		0		1		2		3		4		5		6		7		8		9	
		C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0	9	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷
1		2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹
2	3 4	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁶	1 ⁷	1 ⁴	1 ⁵
5		1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
6		1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
7		1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁵	0 ⁵	0 ⁶	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴
8		1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁴	1 ⁵

N U M B E R	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 ²	1 ⁴	1 ⁵	2 ⁰
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ⁰	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

REVISION	
NAME	DATE
NEW TITLE BLOCK-JPS	12-01-98
LCDOT COMMENTS	8-11-04

Lake County
 Division of Transportation

MAST ARM MOUNTED STREET NAME SIGNS WINCHESTER RD

SCALE: NONE
 DATE: 02/06/97

DESIGNED BY JPS
 CHECKED BY ANK

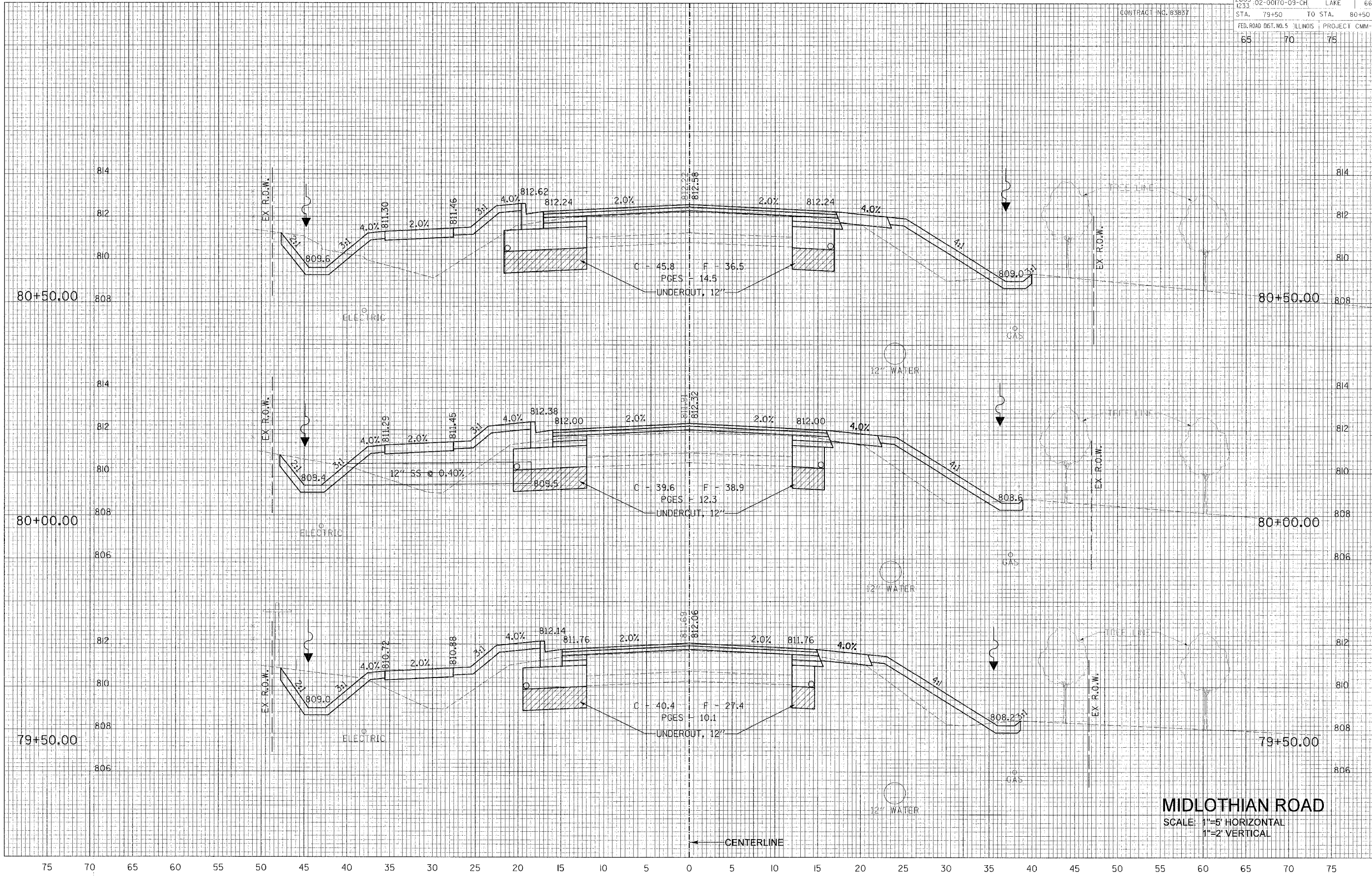
© 1995, 1997, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020, 2022, 2024, 2026, 2028, 2030, 2032, 2034, 2036, 2038, 2040, 2042, 2044, 2046, 2048, 2050, 2052, 2054, 2056, 2058, 2060, 2062, 2064, 2066, 2068, 2070, 2072, 2074, 2076, 2078, 2080, 2082, 2084, 2086, 2088, 2090, 2092, 2094, 2096, 2098, 2100, 2102, 2104, 2106, 2108, 2110, 2112, 2114, 2116, 2118, 2120, 2122, 2124, 2126, 2128, 2130, 2132, 2134, 2136, 2138, 2140, 2142, 2144, 2146, 2148, 2150, 2152, 2154, 2156, 2158, 2160, 2162, 2164, 2166, 2168, 2170, 2172, 2174, 2176, 2178, 2180, 2182, 2184, 2186, 2188, 2190, 2192, 2194, 2196, 2198, 220

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RTE. 2605 1233	SECTION 02-00170-03-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 37
CONTRACT NO. B3857			PROJECT CMM-8003(207)	
STA. 79+50		TO STA. 80+50		
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT CMM-8003(207)		
65	70	75		

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 FINAL SURVEY NOTE BOOK No. _____
 AREAS CHECKED _____

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 ORIGINAL SURVEY NOTE BOOK No. _____
 AREAS CHECKED _____



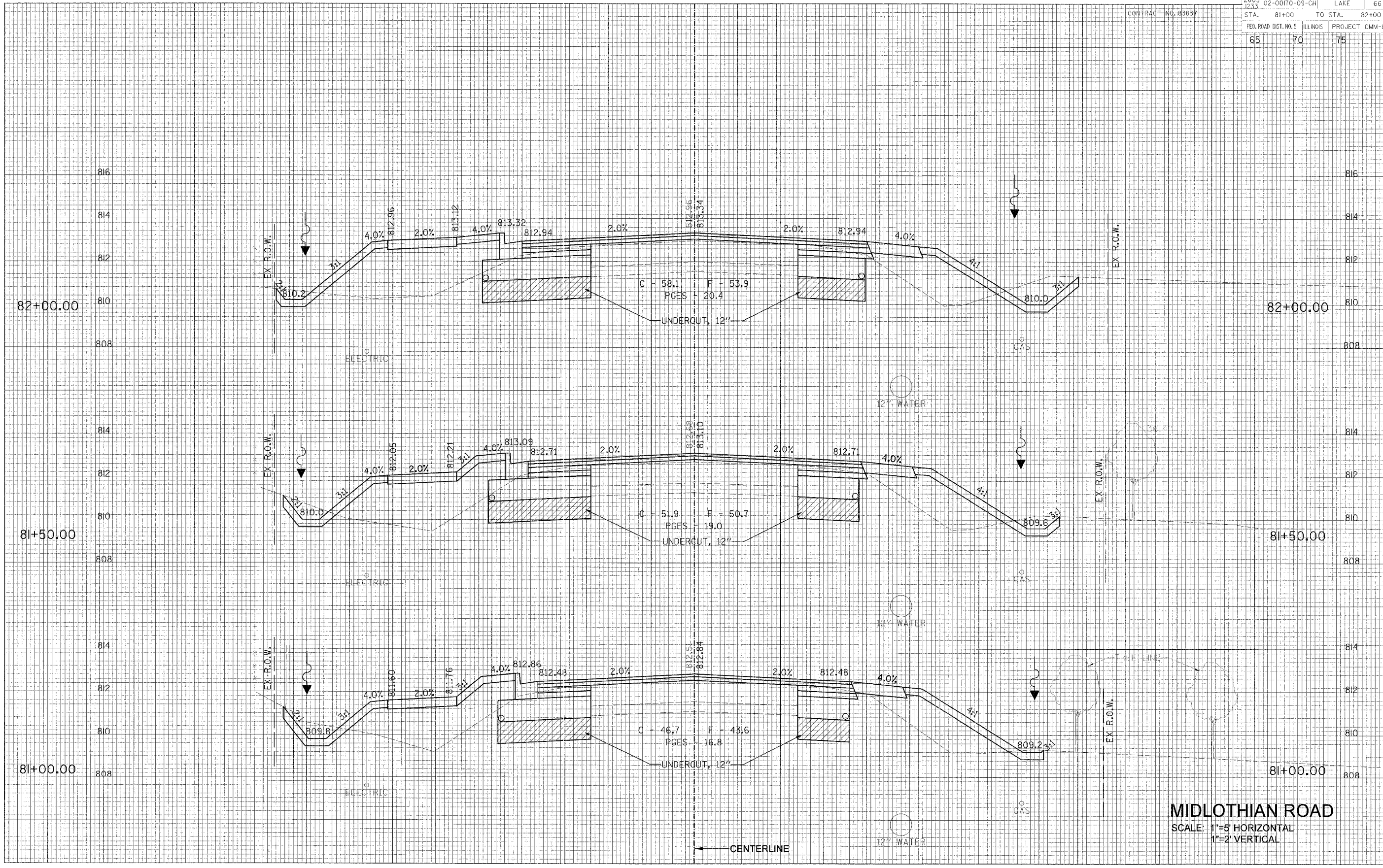
MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.11 RTE. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 38
CONTRACT NO. 83837		STA. 81+00	TO STA. 82+00	
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-8003(207)	
65	70	75		

DATE
BY
SUPERVISOR
FINAL SURVEY
NOTE BOOK
NO.

DATE
BY
SUPERVISOR
ORIGINAL SURVEY
NOTE BOOK
NO.



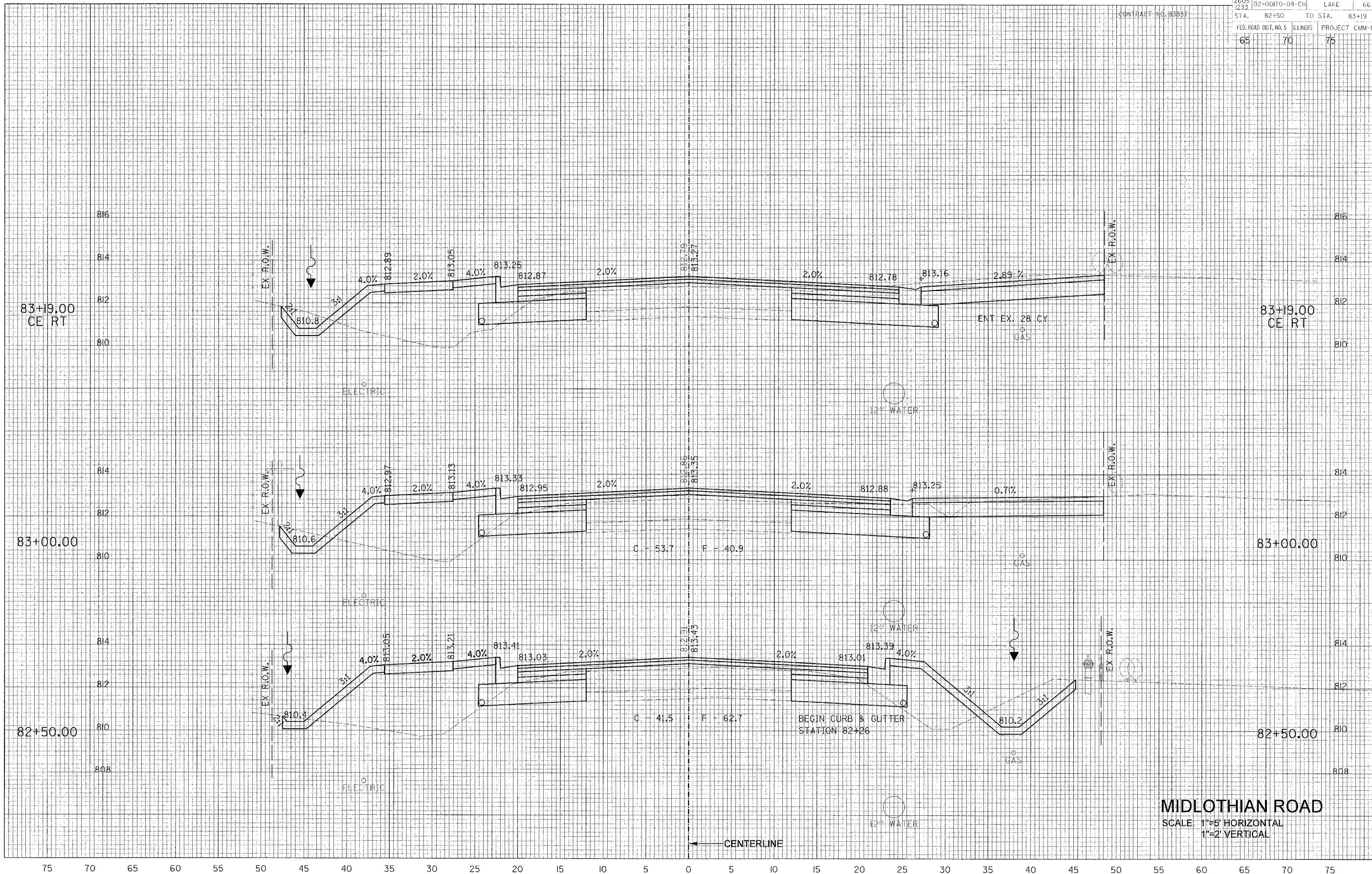
MIDLOTHIAN ROAD
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. DATE: 2/23/05	SECTION: 02-00170-09-CH	COUNTY: LAKE	TOTAL SHEETS: 66	SHEET NO.: 39
CONTRACT NO. 83837				
STA. 82+50	TO STA. 83+19			
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-8003(207)	
65	70	75		

DATE: _____
 BY: _____
 REVISIONS:
 SURVEY: _____
 PLOTTED: _____
 TEMPLATES: _____
 AREAS CHECKED: _____
 FINAL SURVEY NOTE BOOK NO. _____

DATE: _____
 BY: _____
 REVISIONS:
 ORIGINAL SURVEY NOTE BOOK NO. _____



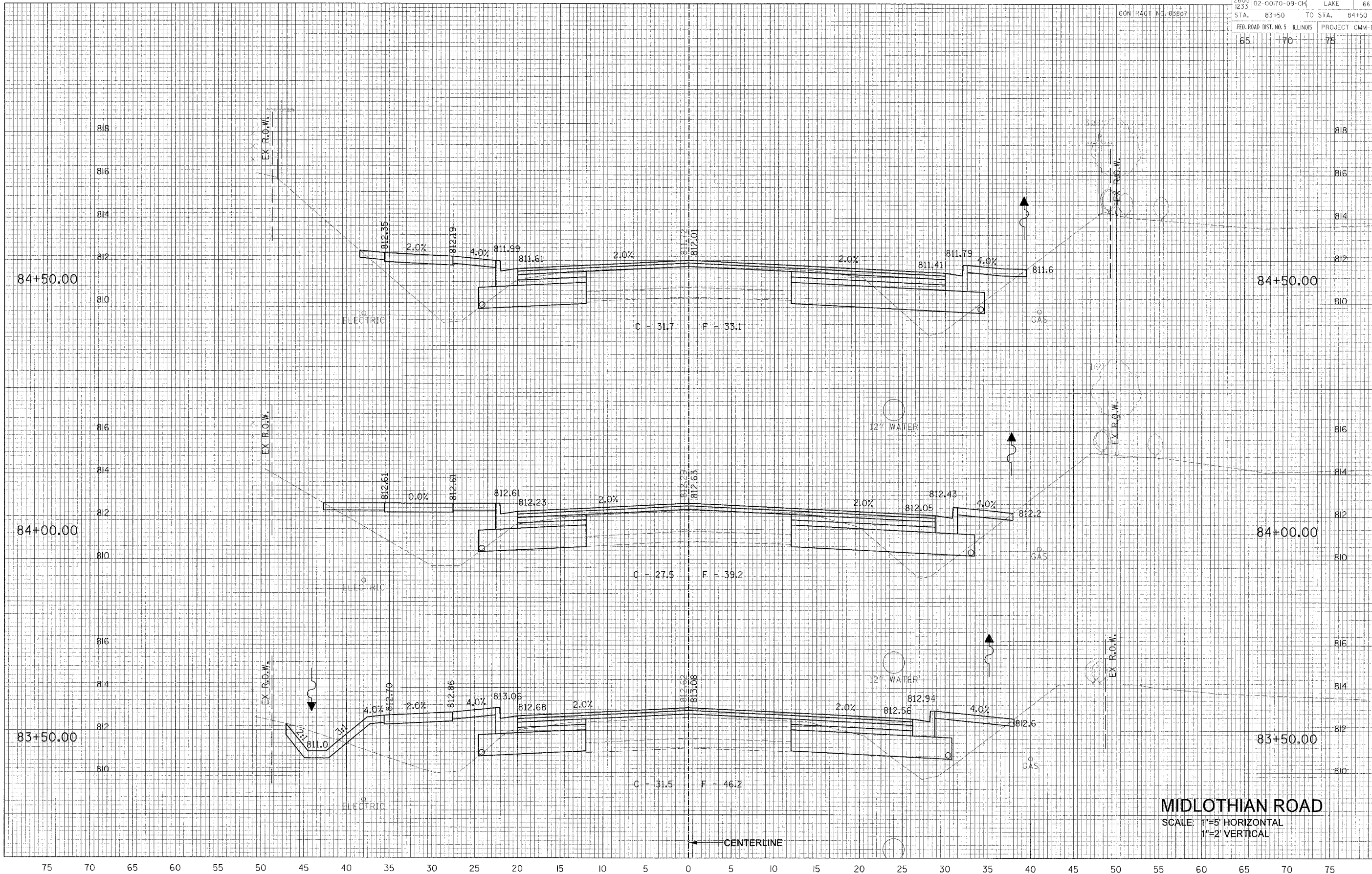
MIDLOTHIAN ROAD
 SCALE 1"=5' HORIZONTAL
 1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. NO. 2605	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 40
STA. 83+50	TO STA. 84+50	CONTRACT NO. 83837		
FED. ROAD DIST. NO. 5 ILLINOIS		PROJECT CMM-8003(207)		
65	70	75		

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____
FINAL SURVEY NOTE BOOK
 No. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____
ORIGINAL SURVEY NOTE BOOK
 No. _____



MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2695 1233	02-00170-09-CH	LAKE	66	41
STA. 85+00	TO STA. 85+67.82			
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-8003(207)	
65	70	75	816	

CONTRACT NO. 83887

DATE: _____
BY: _____
CHECKED: _____
NO. _____

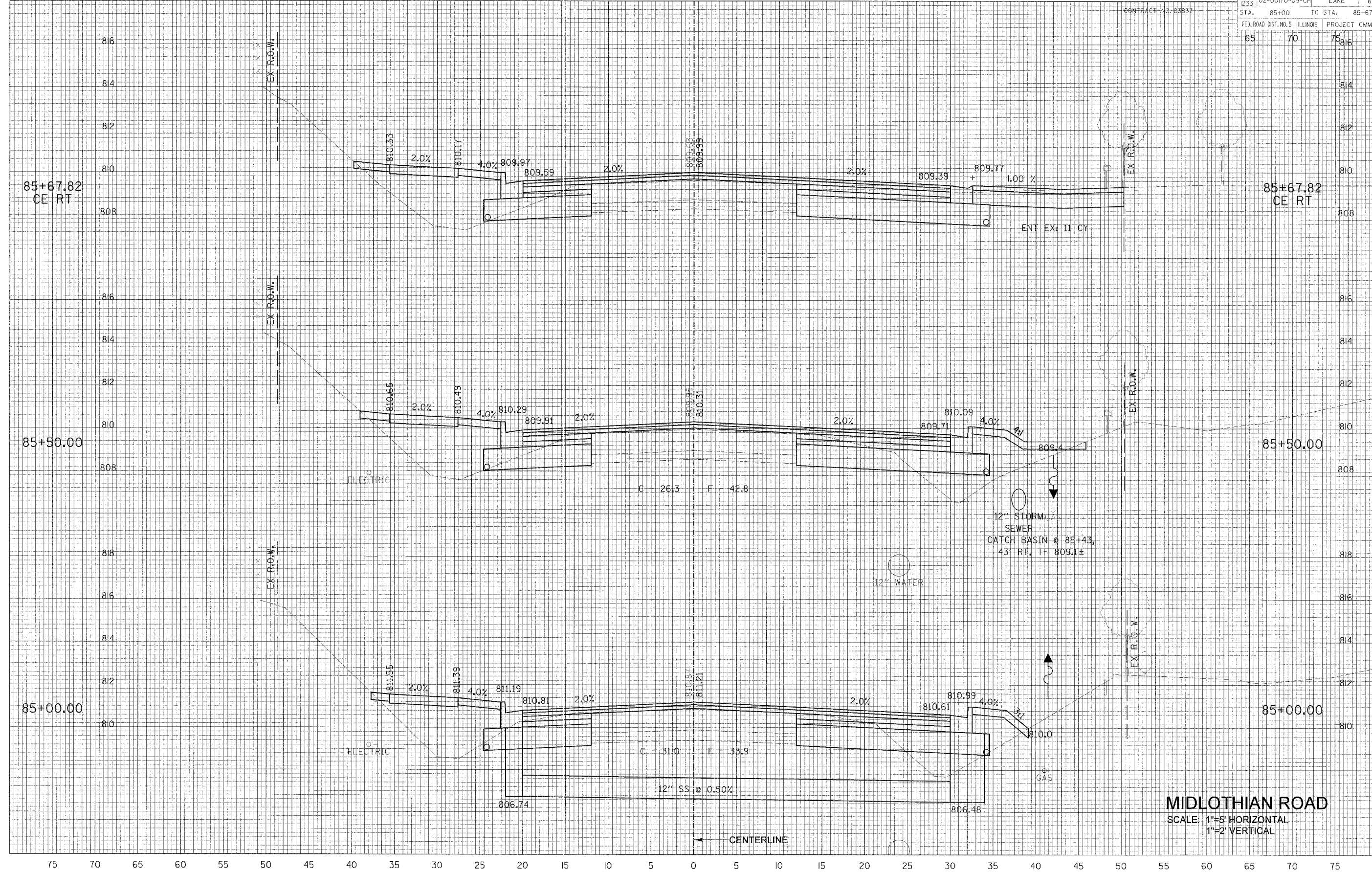
FINAL SURVEY NOTE BOOK NO. _____

SCREENED _____
TEMPLATES _____
AREAS CHECKED _____

DATE: _____
BY: _____
CHECKED: _____
NO. _____

ORIGINAL SURVEY NOTE BOOK NO. _____

SCREENED _____
TEMPLATES _____
AREAS CHECKED _____



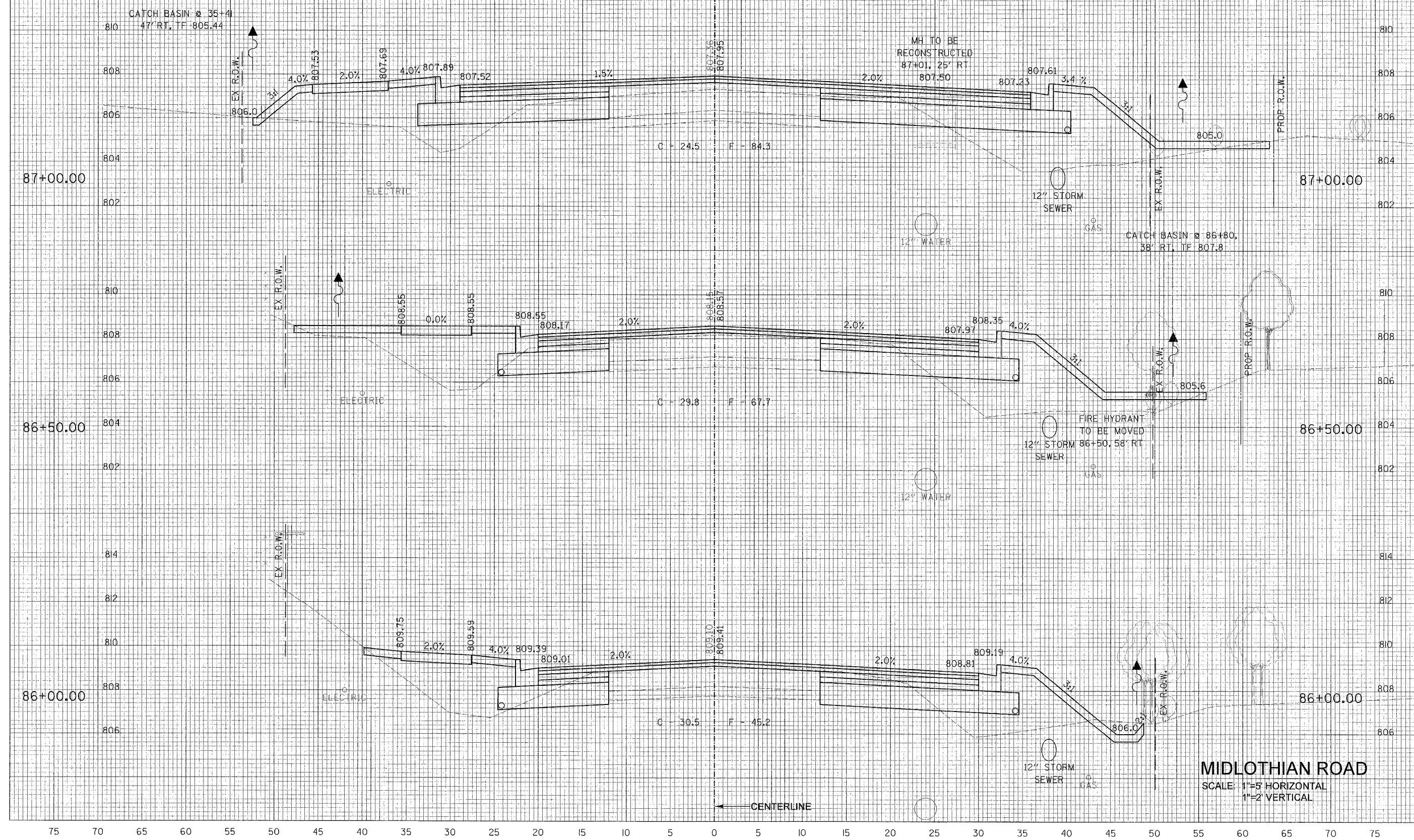
MIDLOTHIAN ROAD
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. No. 2605	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 42
STA. 86+00	TO STA. 87+00	CONTRACT No. 83887		
FED. ROAD DIST. NO. 5 ILLINOIS		PROJECT CMM-8003(207)	65 70 75	

DATE _____ BY _____
 SURVEYED _____
 TEMPLATES _____
 AREAS CHECKED _____
FINAL SURVEY
 NOTE BOOK NO. _____

DATE _____ BY _____
 SURVEYED _____
 TEMPLATES _____
 AREAS CHECKED _____
ORIGINAL SURVEY
 NOTE BOOK NO. _____



MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

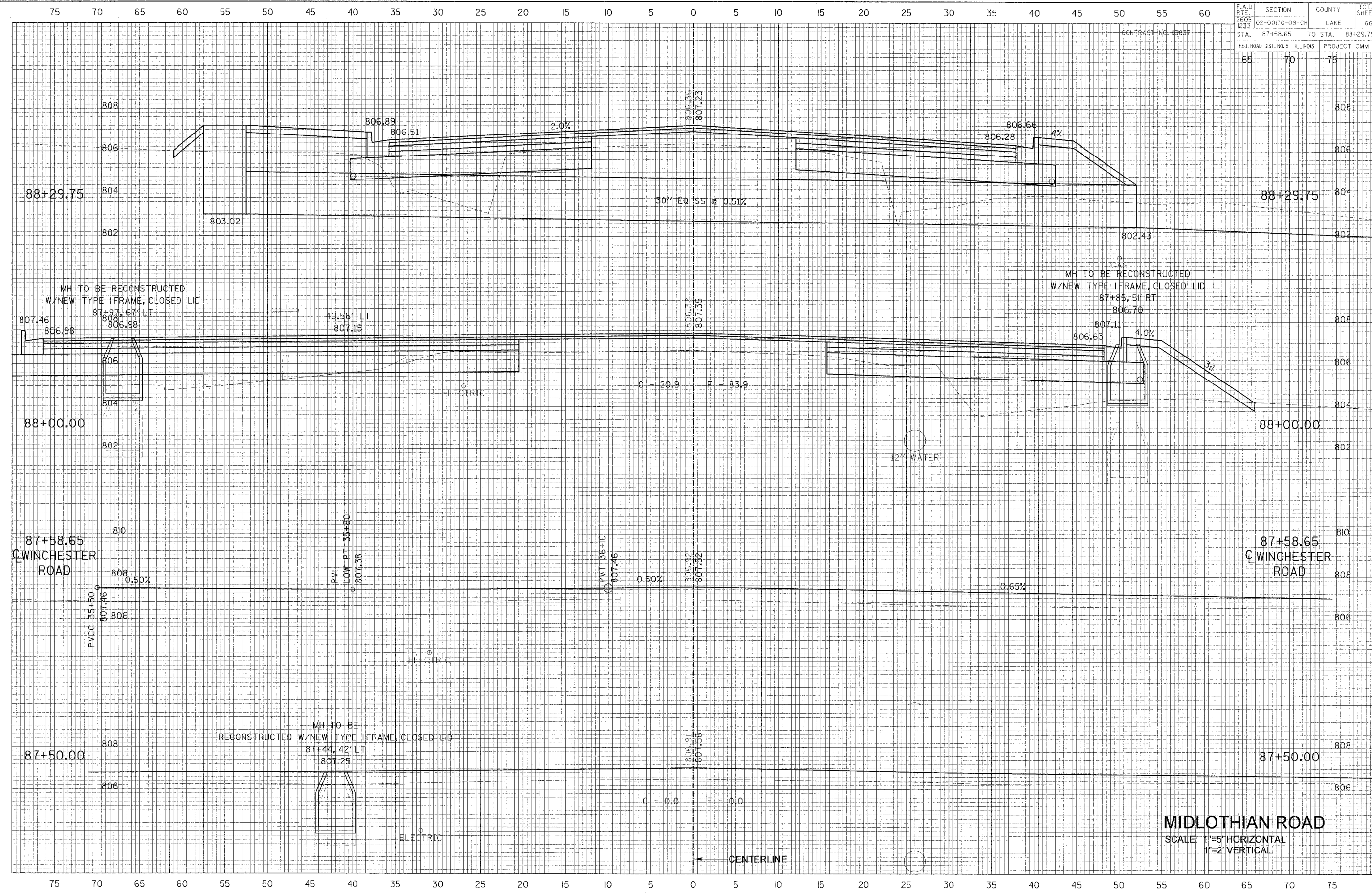
E:\EGD\MS 18-0301\0412 P\Task 41801.mxd
 DATE: 8/11/07 10:37

F.A.U. RITE 2605 1233	SECTION 02-0010-09 CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 43
STA. 87+58.65	TO STA. 88+29.75		PROJECT CMM-8003(207)	
FED. ROAD DIST. NO. 5	LLINKS			
65	70	75		

CONTRACT NO. H3337

DATE
BY
SUPERVISOR
PLOTTED
TEMPLATES
AREAS CHECKED
FINAL SURVEY NOTE BOOK No.

DATE
BY
SUPERVISOR
PLOTTED
TEMPLATES
AREAS CHECKED
ORIGINAL SURVEY NOTE BOOK No.



MIDLOTHIAN ROAD
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

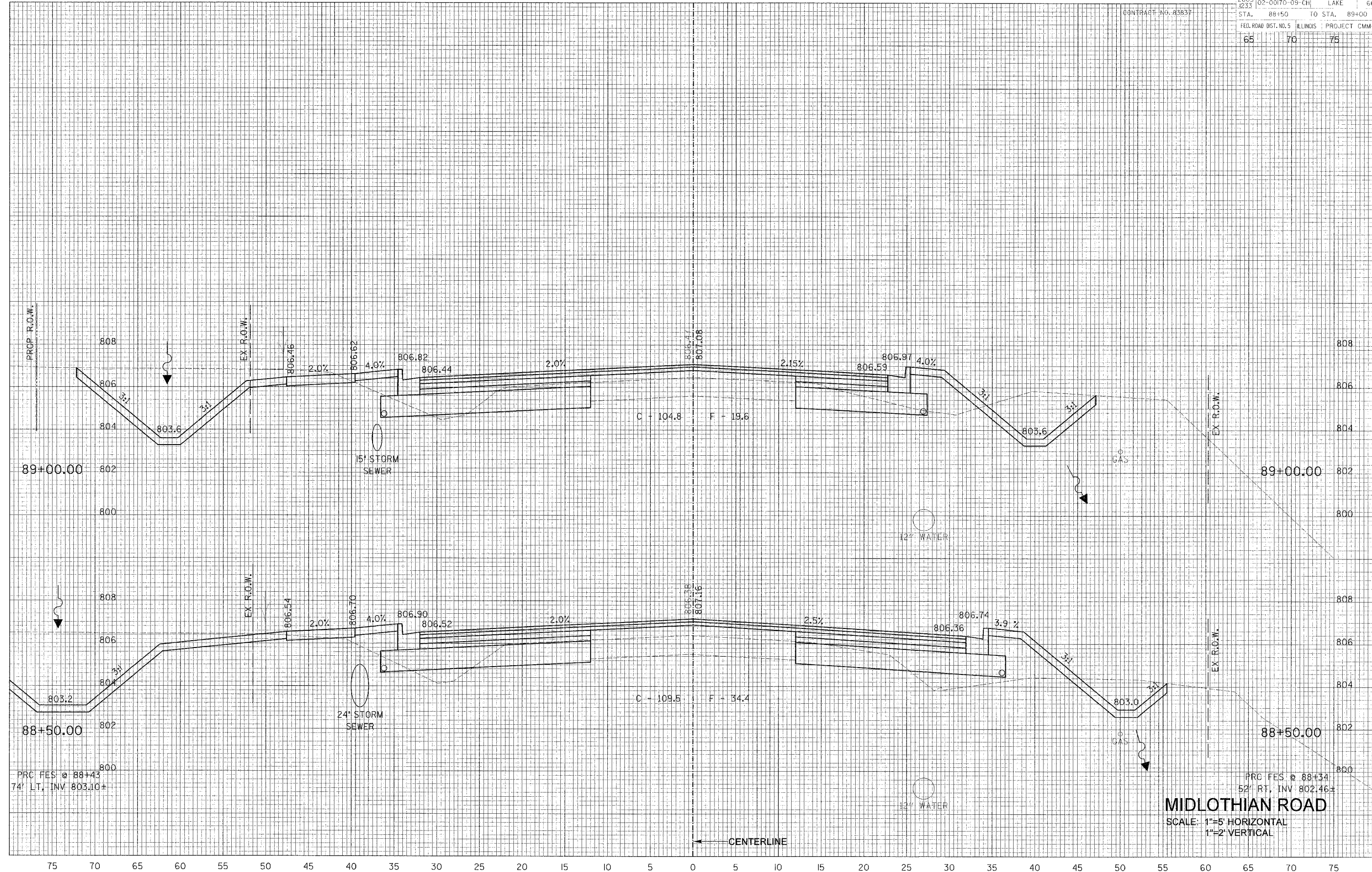
FILE: G:\M\880520\4-Fluss-0586.dwg
DATE: 04/08/05

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. NO. 2635	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEET NO. 66
STA. 88+50	TO STA. 89+00		44
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)			
65	70	75	

DATE _____
BY _____
SURVEYED _____
REVISIONS _____
TEMPLATES _____
AREAS CHECKED _____
AREAS CHECKED _____
FINAL SURVEY NOTE BOOK NO. _____

DATE _____
BY _____
SURVEYED _____
REVISIONS _____
TEMPLATES _____
AREAS CHECKED _____
AREAS CHECKED _____
ORIGINAL SURVEY NOTE BOOK NO. _____



PRC FES @ 88+43
74' LT, INV 803.10±

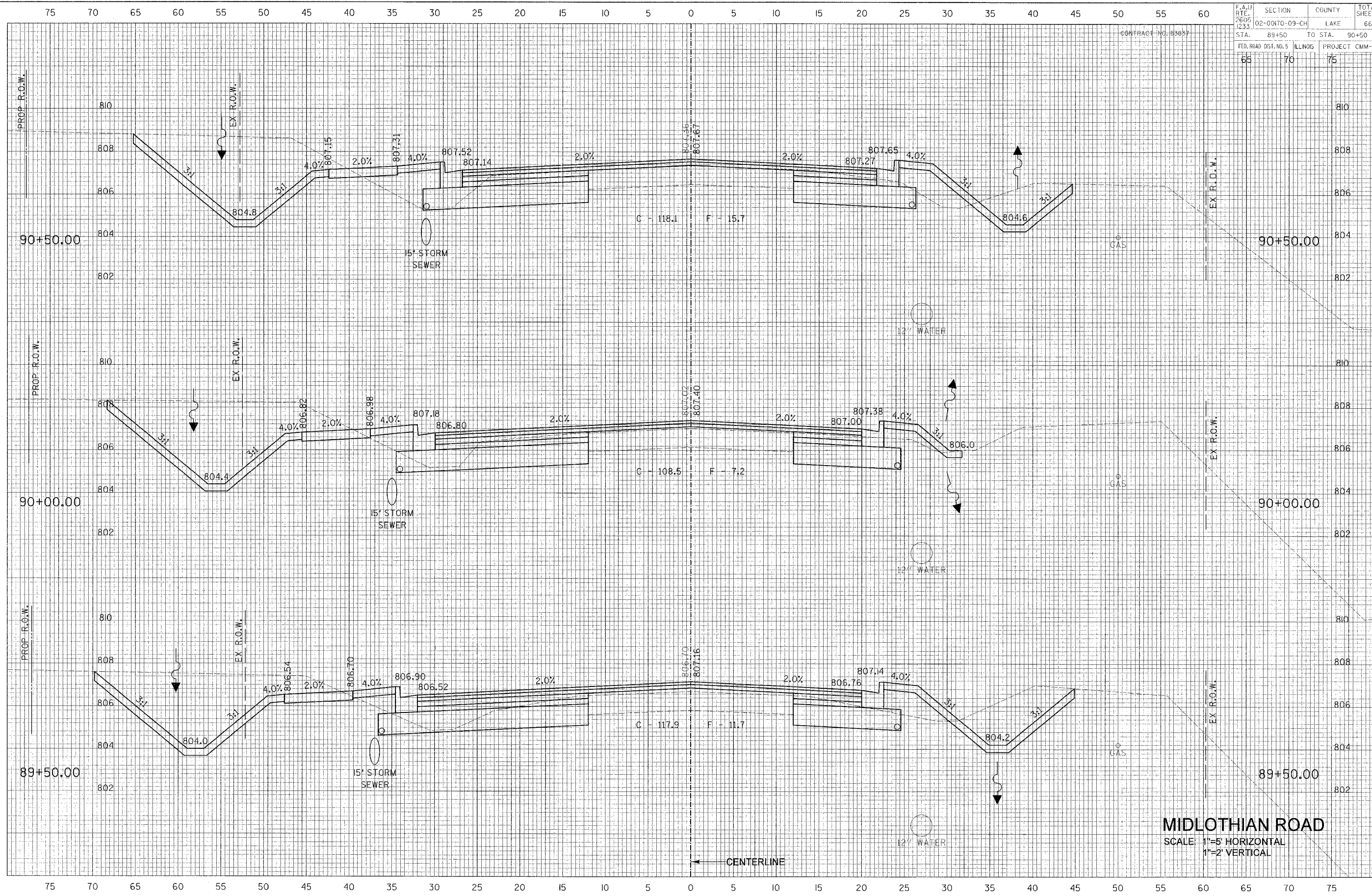
PRC FES @ 88+34
52' RT, INV 802.46±

MIDLOTHIAN ROAD
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

F.A.U. RITE 1233	SECTION 02-0010-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 45
STA. 89+50	TO STA. 90+50		PROJECT CMM-8003(207)	
FED. ROAD DIST. NO. 5 ILLINOIS			CONTRACT NO. 83857	

DATE: _____ BY: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE: _____ BY: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____



MIDLOTHIAN ROAD
 SCALE 1"=5' HORIZONTAL
 1"=2' VERTICAL

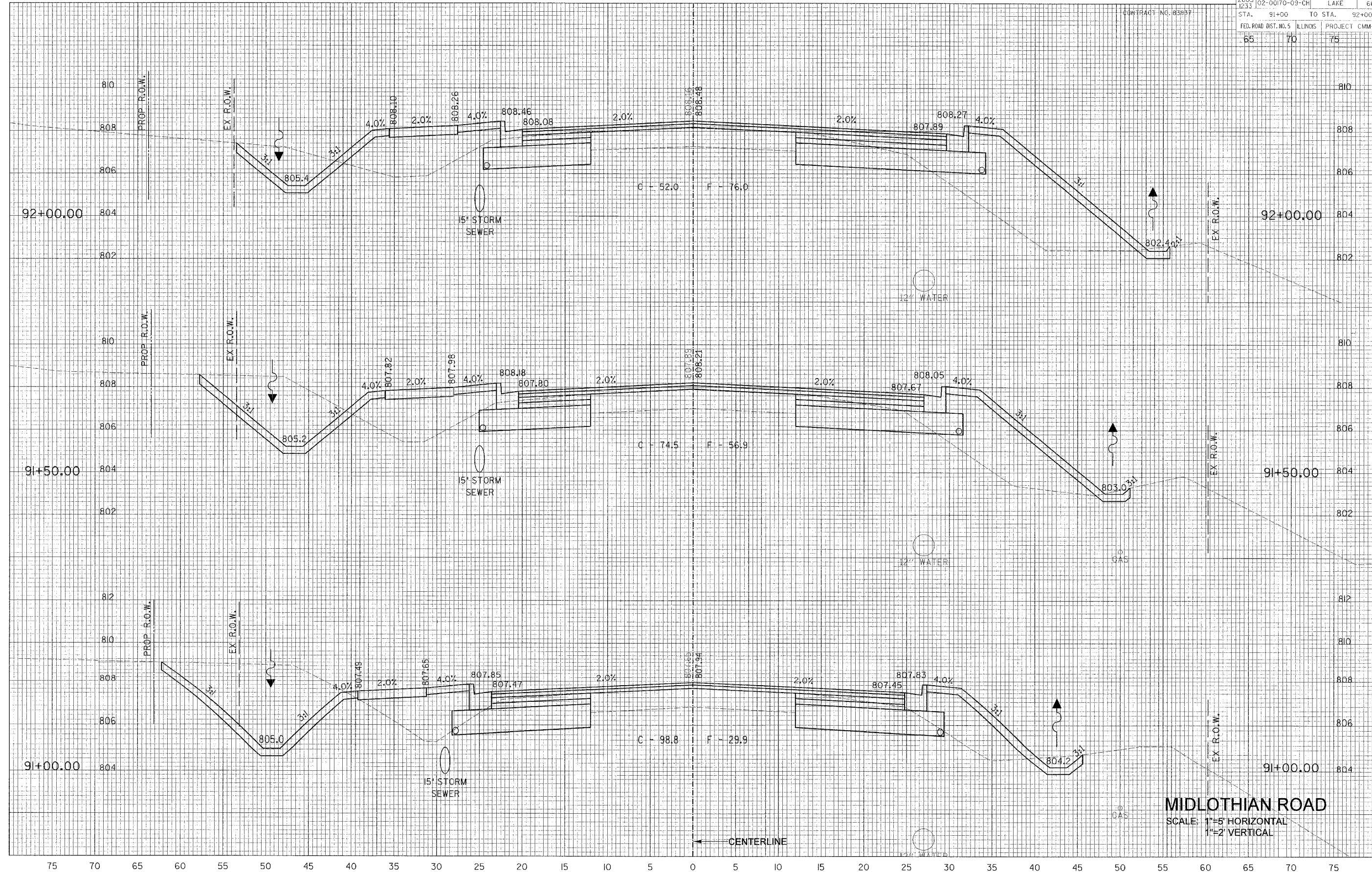
FILED: 10/10/08 10:00 AM
 DATE: 10/10/08

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RTE. 2835 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 46
STA. 91+00	TO STA. 92+00	ILLINOIS	PROJECT CMM-8003(207)	
CONTRACT NO. 838B7				
FED. ROAD DIST. NO. 5				
65	70	75		

DATE _____ BY _____
 SURVEYED _____
 PROFILES _____
 TEMPLATES _____
 AREAS CHECKED _____
FINAL SURVEY
 NOTE BOOK NO. _____

DATE _____ BY _____
 SURVEYED _____
 PROFILES _____
 TEMPLATES _____
 AREAS CHECKED _____
ORIGINAL SURVEY
 NOTE BOOK NO. _____



MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

THESE PLANS WERE PREPARED BY THE ILLINOIS STATE SURVEY AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR.

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RT# 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 47
STA. 92+50	TO STA. 93+00	CONTRACT NO. 83837		
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT CMM-8003(207)		
65	70	75		

BY _____ DATE _____

SUBMITTED _____

PLOTTED _____

TEMPLATES _____

AREAS CHECKED _____

FINAL SURVEY

NOTE BOOK No. _____

BY _____ DATE _____

SUBMITTED _____

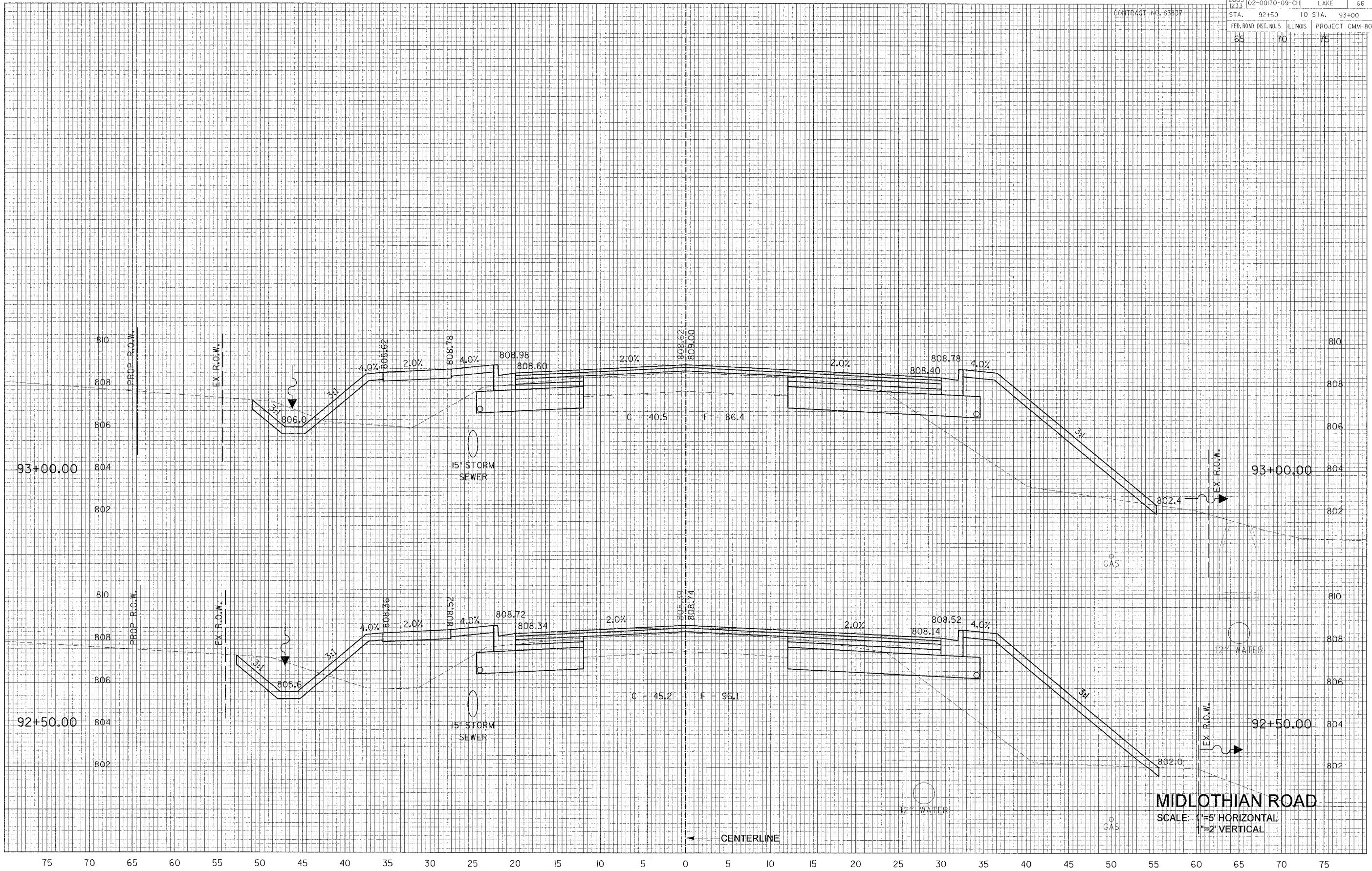
PLOTTED _____

TEMPLATES _____

AREAS CHECKED _____

ORIGINAL SURVEY

NOTE BOOK No. _____



MIDLOTHIAN ROAD

SCALE 1"=5' HORIZONTAL
1"=2' VERTICAL

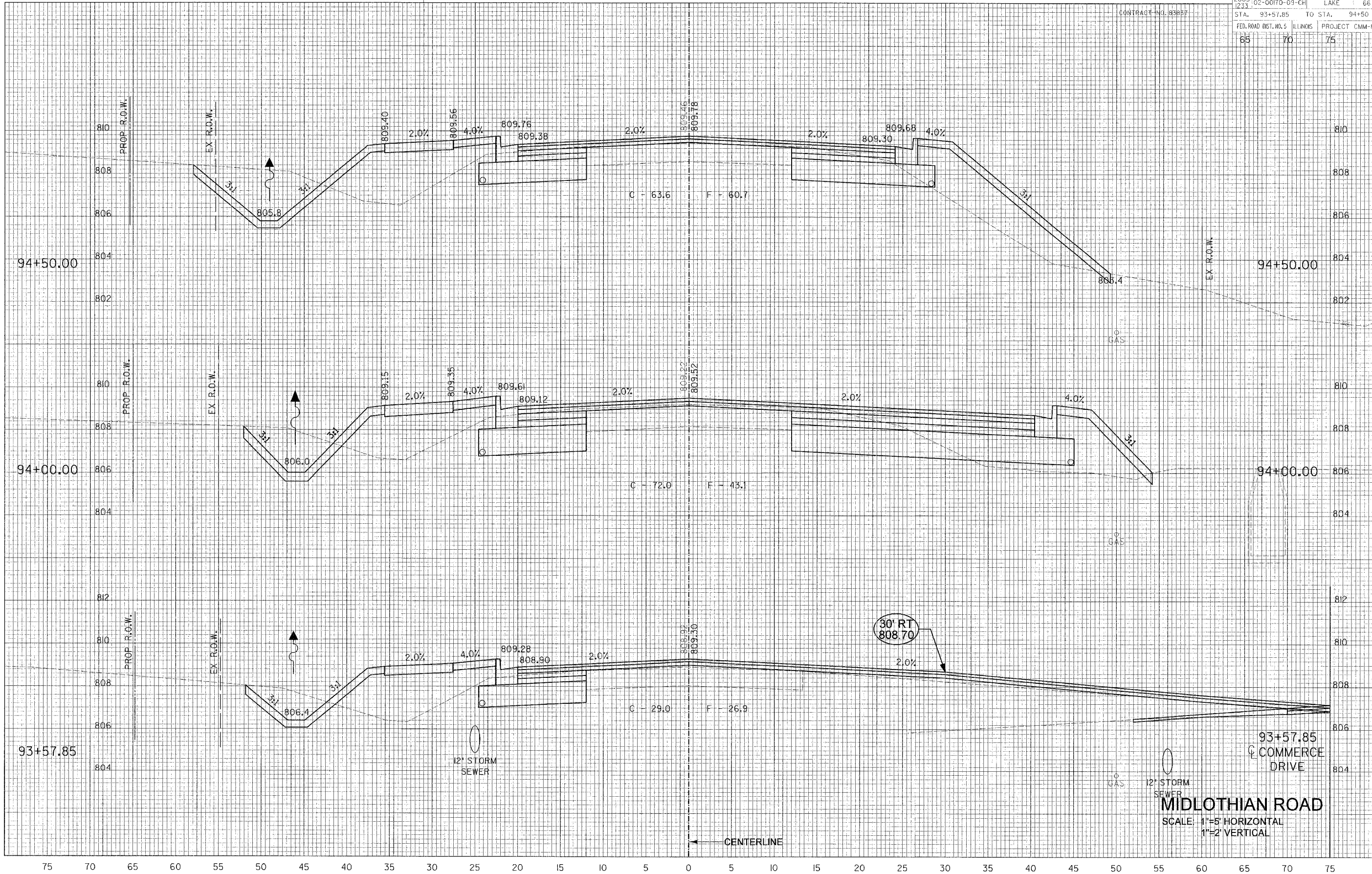
1984 ILLINOIS STATE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. 2605	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 48
STA. 93+57.85	TO STA. 94+50		CONTRACT NO. 83887	
FED. ROAD DIST. NO. 5	LINKS	PROJECT	CMM-8003(207)	
65	70	75		

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

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



93+57.85
 COMMERCE DRIVE
MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

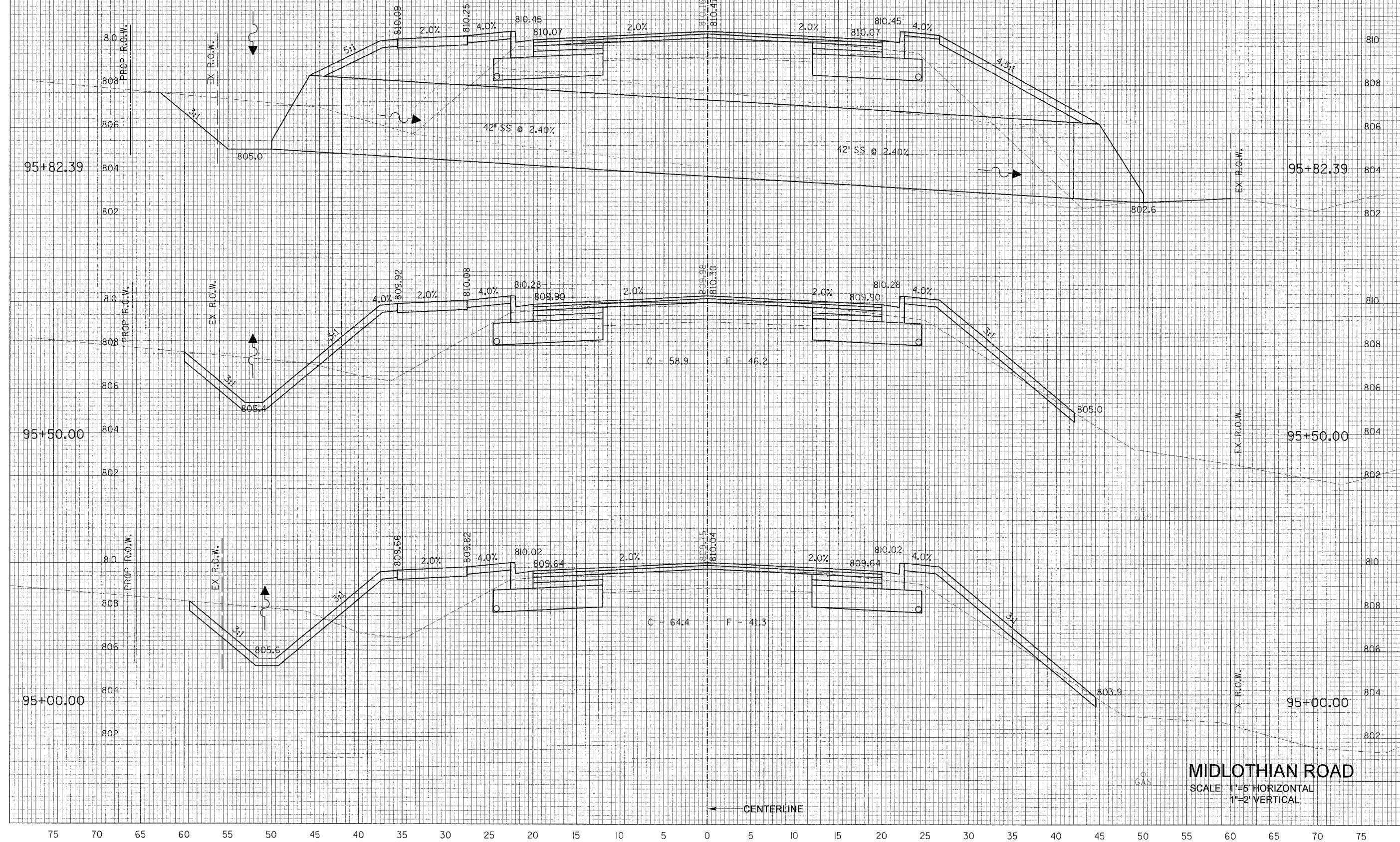
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2695	02-00170-09-CH	LAKE	66	49
STA. 95+00	TO STA. 95+82.39			
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-80031207	
65	70	75		

CONTRACT NO. 83887

DATE: _____
 BY: _____
 SURVEYED _____
 TEMPLATES _____
 AREAS CHECKED _____
FINAL SURVEY
 NOTE BOOK NO. _____

DATE: _____
 BY: _____
 SURVEYED _____
 TEMPLATES _____
 AREAS CHECKED _____
ORIGINAL SURVEY
 NOTE BOOK NO. _____



MIDLOTHIAN ROAD
 SCALE 1"=5' HORIZONTAL
 1"=2' VERTICAL

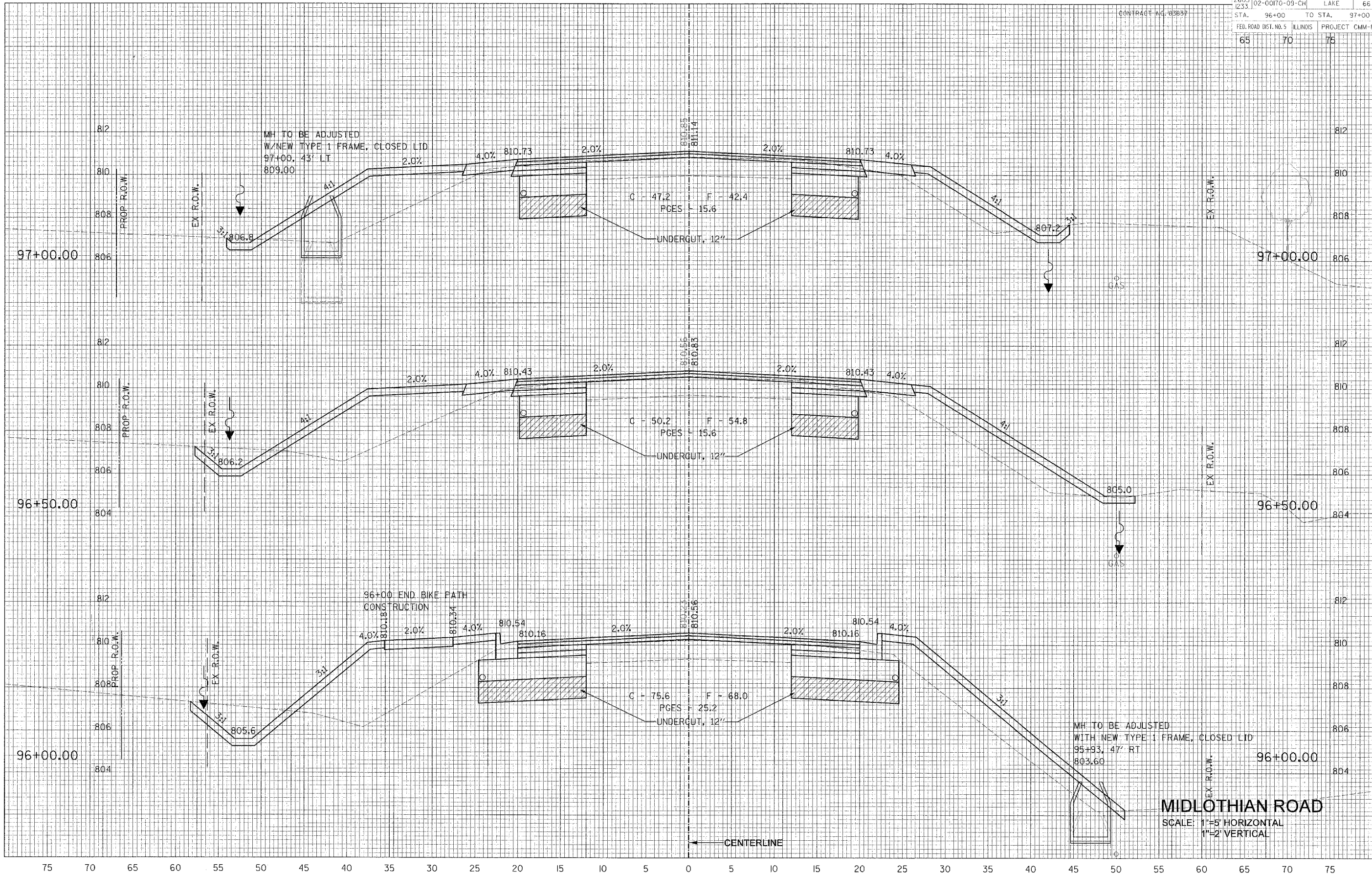
BY: J. H. M. 6/15/09 11:45 AM 11:45 AM
 DATE: 6/15/09

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.I. RT. 2605	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 50
STA. 96+00	TO STA. 97+00			
FED. ROAD DIST. NO. 5 ILLINOIS		PROJECT CMM-8003(207)		
65	70	75		

DATE: _____
 BY: _____
 SUPERVISOR
 PLOTTED
 TEMPLATES
 AREAS CHECKED
 FINAL SURVEY NOTE BOOK No. _____

DATE: _____
 BY: _____
 SUPERVISOR
 PLOTTED
 TEMPLATES
 AREAS CHECKED
 ORIGINAL SURVEY NOTE BOOK No. _____



MH TO BE ADJUSTED
 W/NEW TYPE 1 FRAME, CLOSED LID
 97+00, 43' LT
 809.00

MH TO BE ADJUSTED
 WITH NEW TYPE 1 FRAME, CLOSED LID
 95+33, 47' RT
 803.60

96+00 END BIKE PATH
 CONSTRUCTION

MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

1:8 SCALE 12/27/2010 11:58 AM 1387-2101-0001
 DATE 12/27/10

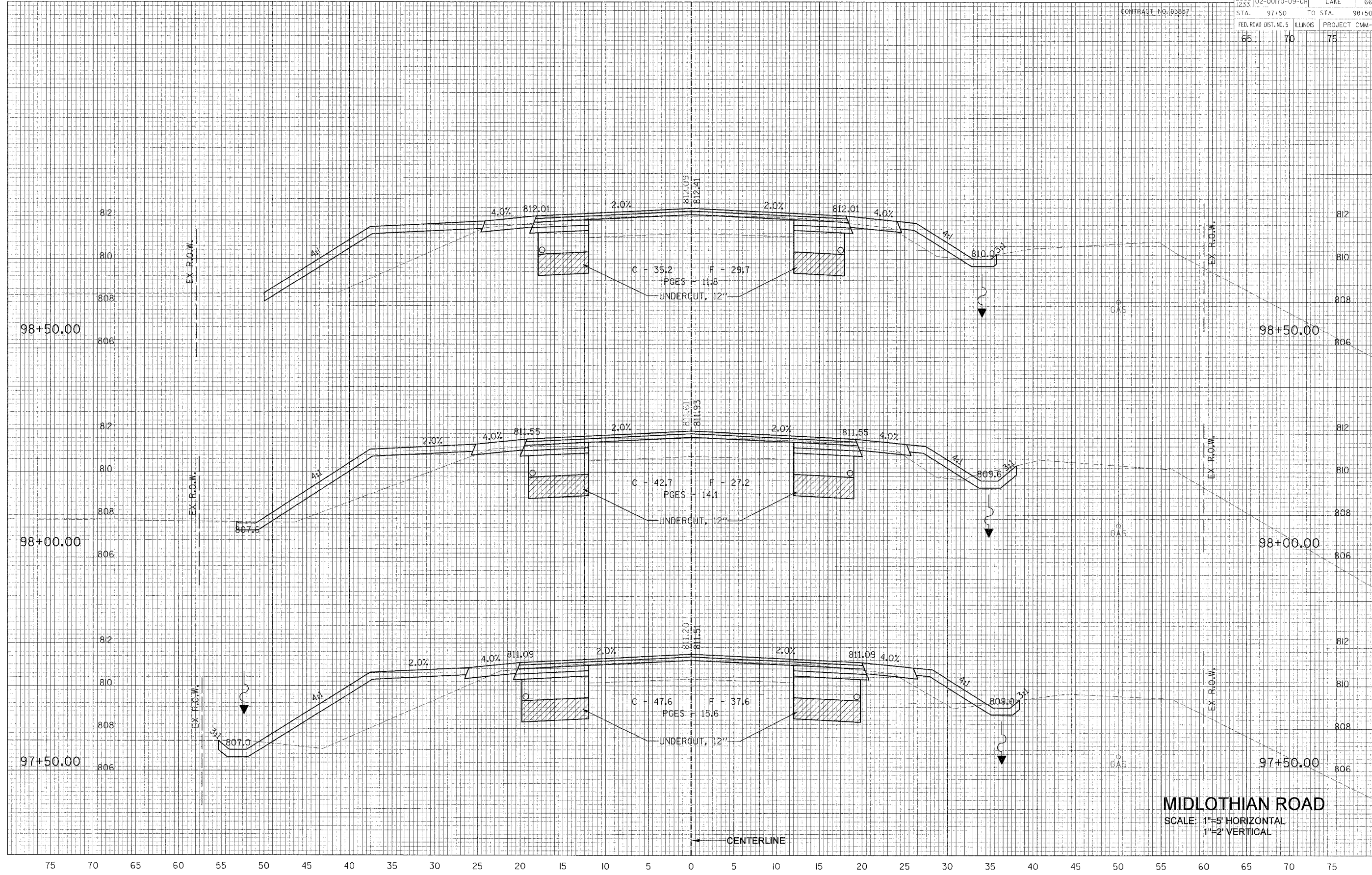
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F.A.U. RTE. 2605 2233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 51
STA. 97+50	TO STA. 98+50			
FED. ROAD DIST. NO. 5	ELINGS	PROJECT CMM-8003(207)		
65	70	75		

CONTRACT NO. 83887

DATE: _____ BY: _____
 DRAWN: _____
 CHECKED: _____
 FINAL SURVEY NOTE BOOK No. _____
 AREAS CHECKED: _____

DATE: _____ BY: _____
 DRAWN: _____
 CHECKED: _____
 ORIGINAL SURVEY NOTE BOOK No. _____
 AREAS CHECKED: _____



MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

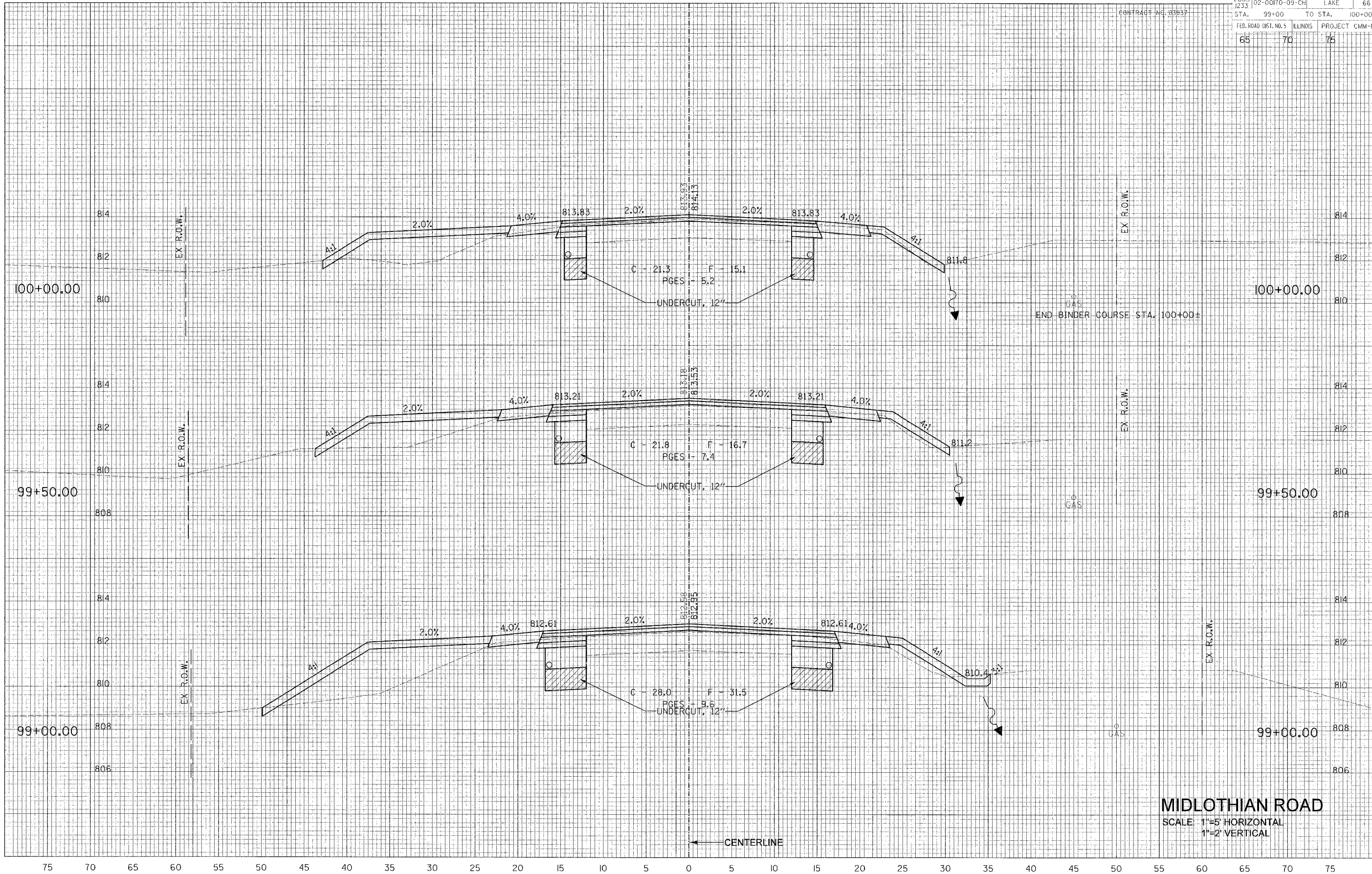
PL 8110305, 10/10/2014, 11:42 AM, 11/10/14, 11/10/14, 11/10/14

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.D. RITE 2605 J233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 52
STA. 99+00		TO STA. 100+00		CONTRACT NO. 83837
FED. ROAD DIST. NO. 5		ILLINOIS	PROJECT	GMM-8003(207)
65	70	75		

DATE _____ BY _____
 SUPERVISOR _____
 CHECKED _____
 FINAL SURVEY NOTE BOOK NO. _____

DATE _____ BY _____
 SUPERVISOR _____
 CHECKED _____
 ORIGINAL SURVEY NOTE BOOK NO. _____



MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605	02-00170-09-CH	LAKE	66	53
1233				
STA. 100+50	TO STA. 101+00			
FED. ROAD DIST. NO. 5 ILLINOIS		PROJECT		CMM-8003(207)
65	70	75		

CONTRACT NO. 03857

DATE _____ BY _____

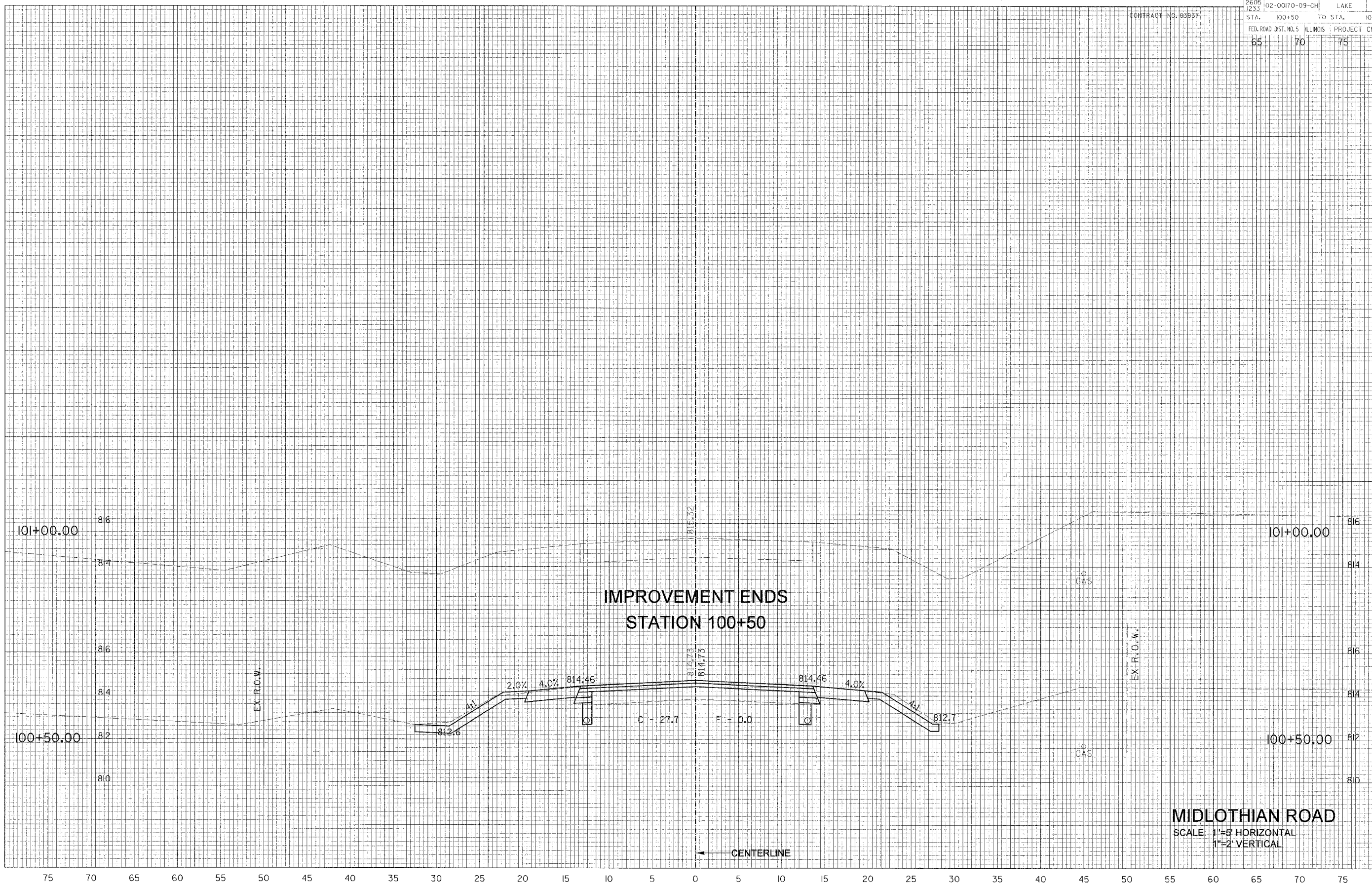
FINAL SURVEY NOTE BOOK NO. _____

REVISIONS
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____

DATE _____ BY _____

ORIGINAL SURVEY NOTE BOOK NO. _____

REVISIONS
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____



MIDLOTHIAN ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

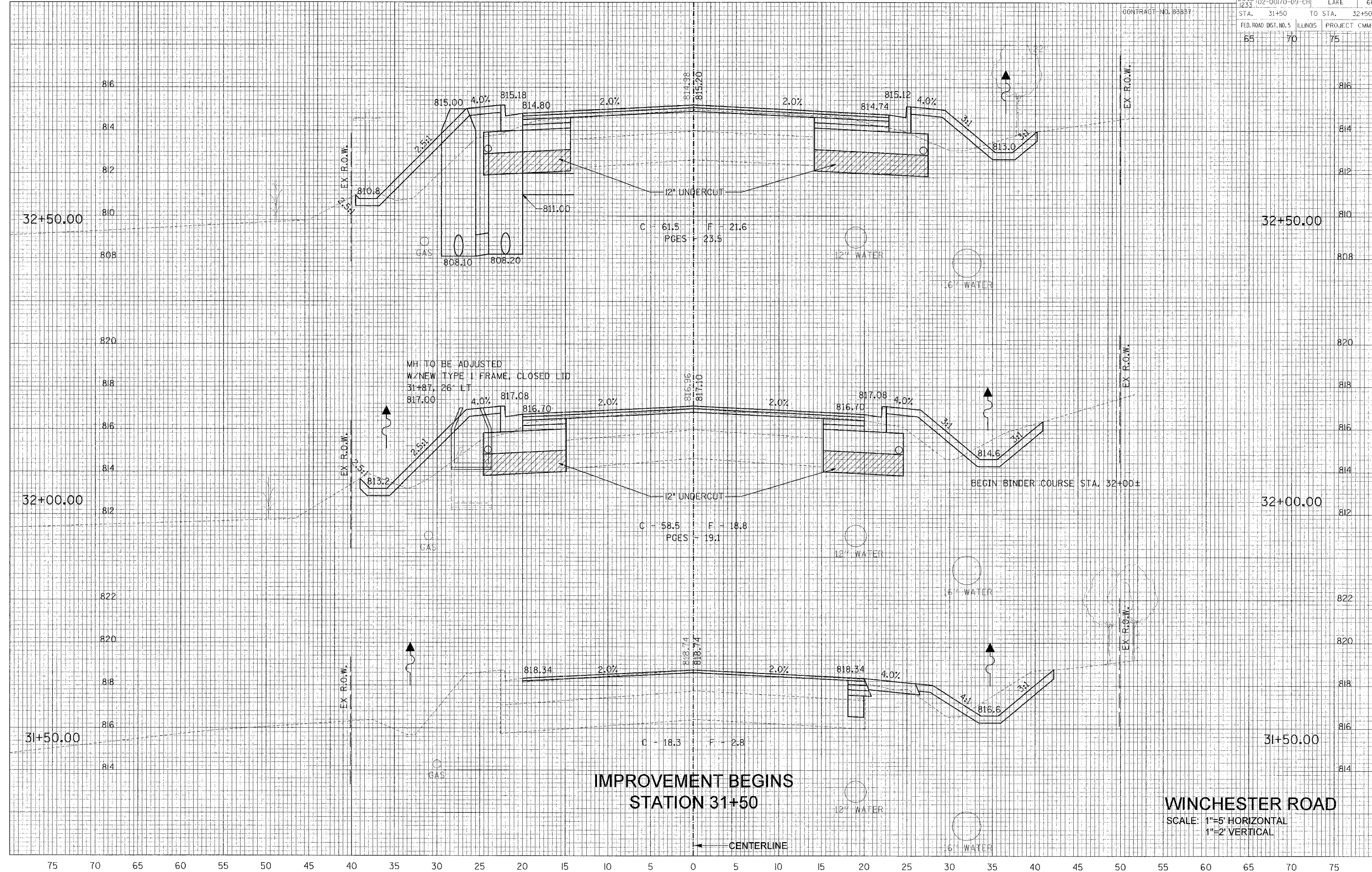
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RITE: 2695 1233	SECTION: 02-00170-09-CH	COUNTY: LAKE	TOTAL SHEETS: 66	SHEET NO.: 54
STA. 31+50	TO STA. 32+50	PROJECT: CMM-8003(207)		
FED. ROAD DIST. NO. 5	ILLINOIS			
65	70	75		

CONTRACT NO. 83887

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

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



IMPROVEMENT BEGINS
STATION 31+50

WINCHESTER ROAD
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

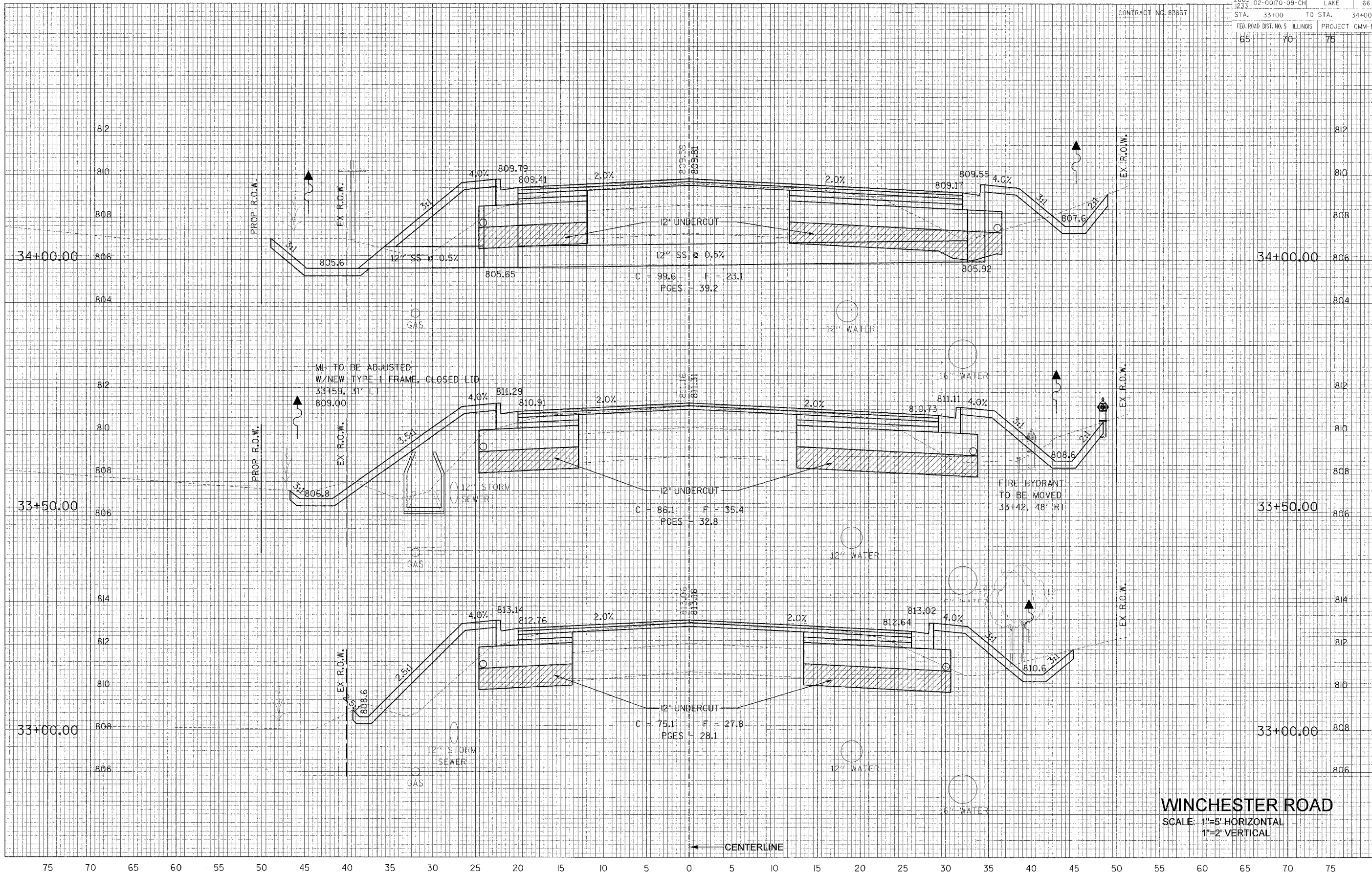
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DATE: 01/20/06

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F.A.D. RT. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 55
STA. 33+00	TO STA. 34+00		CONTRACT NO. 88887	
FED. ROAD DIST. NO. 5 ILLINOIS		PROJECT GMM-8003(207)		
65	70	75		

DATE _____ BY _____
 SUPERVISOR _____
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____
FINAL SURVEY
 NOTE BOOK NO. _____

DATE _____ BY _____
 SUPERVISOR _____
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____
ORIGINAL SURVEY
 NOTE BOOK NO. _____



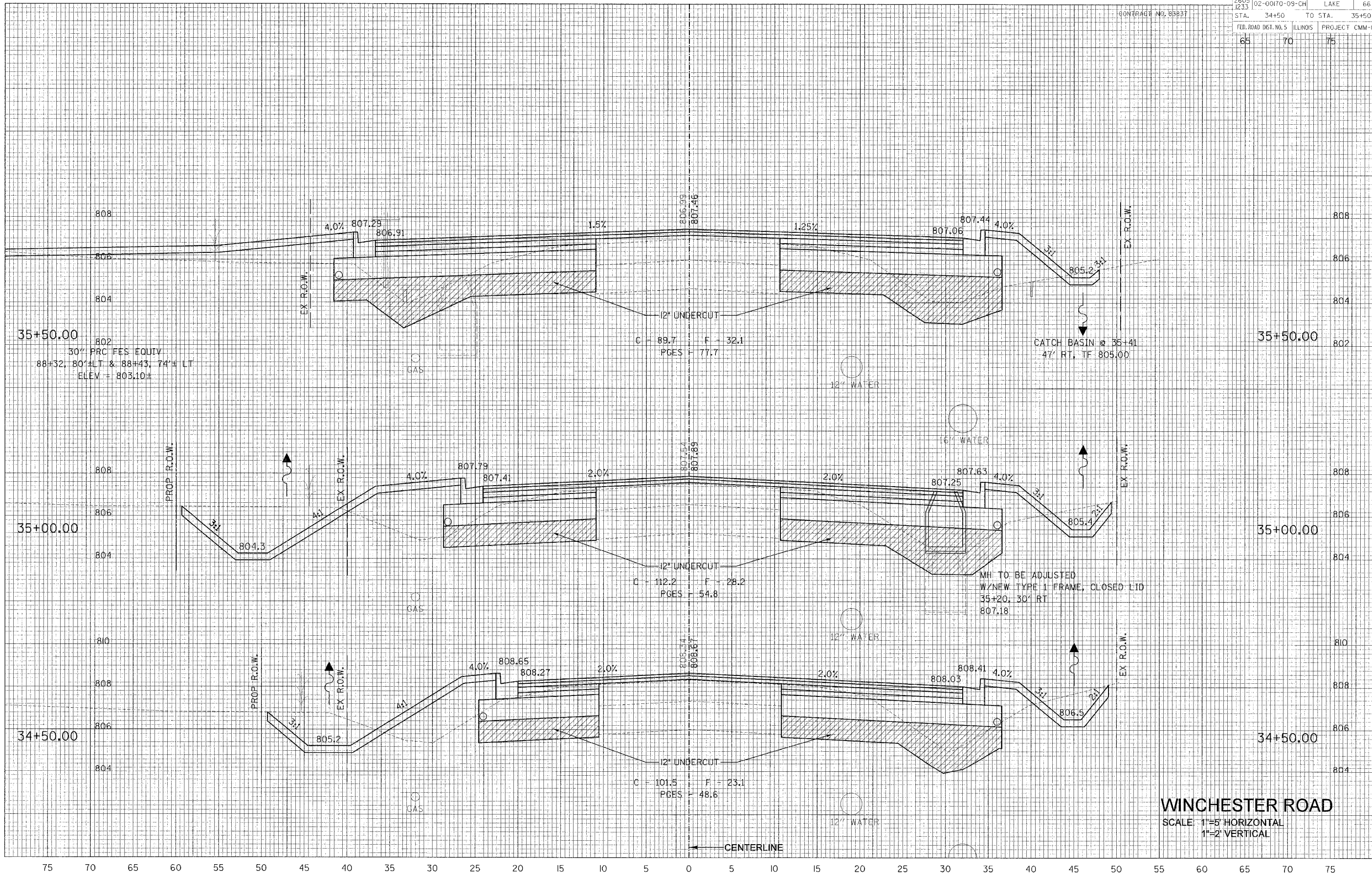
WINCHESTER ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RT# 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 56
STA. 34+50	TO STA. 35+50	PROJECT CMM-8003(207)	CONTRACT NO. 83837	
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-8003(207)	
65	70	75		

DATE _____ BY _____
 ORIGINAL SURVEY NOTE BOOK NO. _____
 REVISIONS: _____
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____

DATE _____ BY _____
 ORIGINAL SURVEY NOTE BOOK NO. _____
 REVISIONS: _____
 PLOTTED _____
 TEMPLATES _____
 AREAS CHECKED _____



WINCHESTER ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

ILLINOIS SURVEYING BOARD
 DATE: 0-2-06 107

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RTE. 2805 1233	SECTION 02-0010-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 57
STA. 36+00	TO STA. 37+00			
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT CMM-8003(207)		

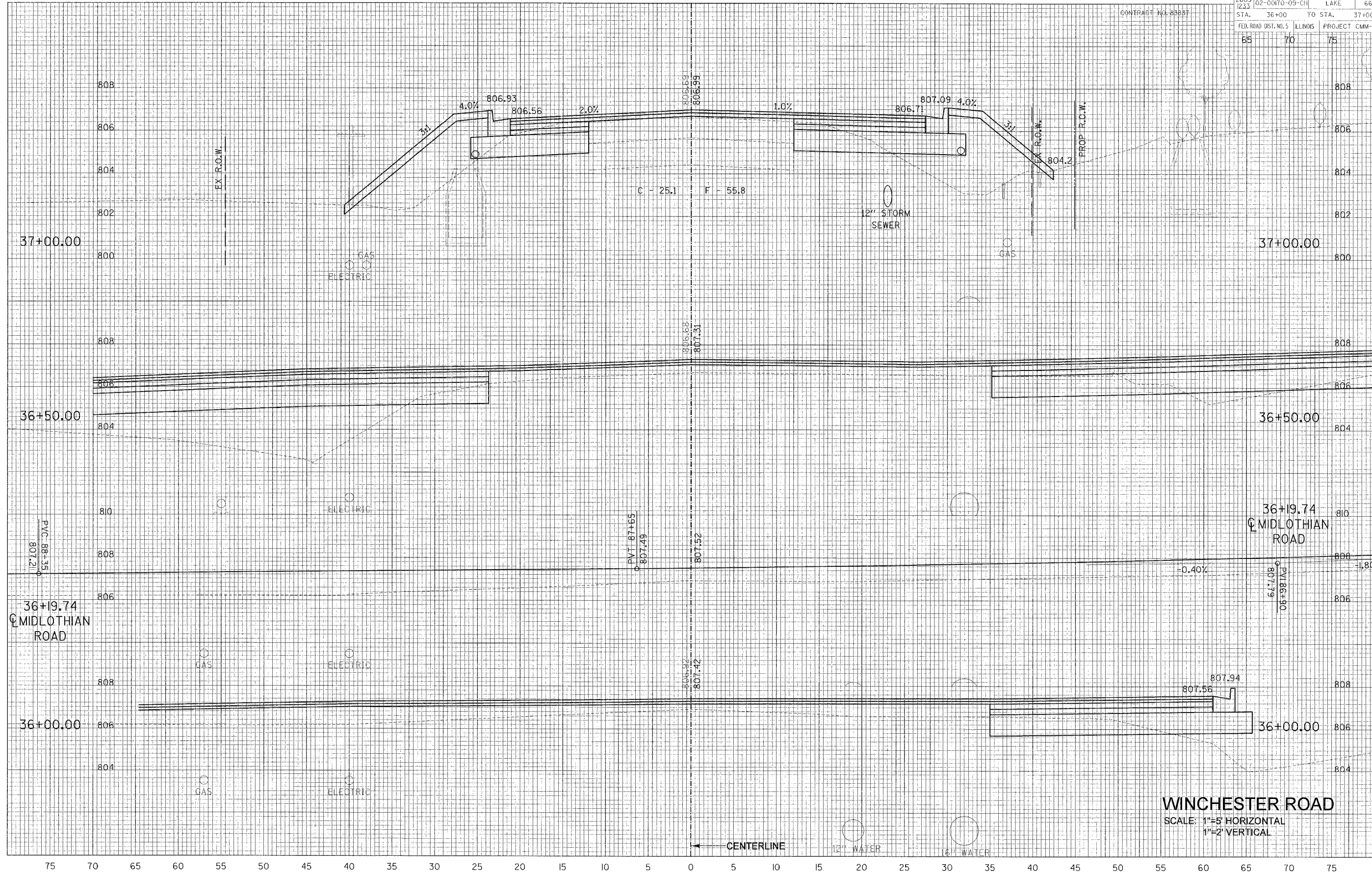
CONTRACT NO. 83887

DATE _____
BY _____
SUPERVISOR _____
PLOTTED _____
TEMPLATES _____
AREAS CHECKED _____

FINAL SURVEY NOTE BOOK No. _____

DATE _____
BY _____
SURVEYED _____
PLOTTED _____
AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK No. _____



WINCHESTER ROAD
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

CENTERLINE

12" WATER

16" WATER

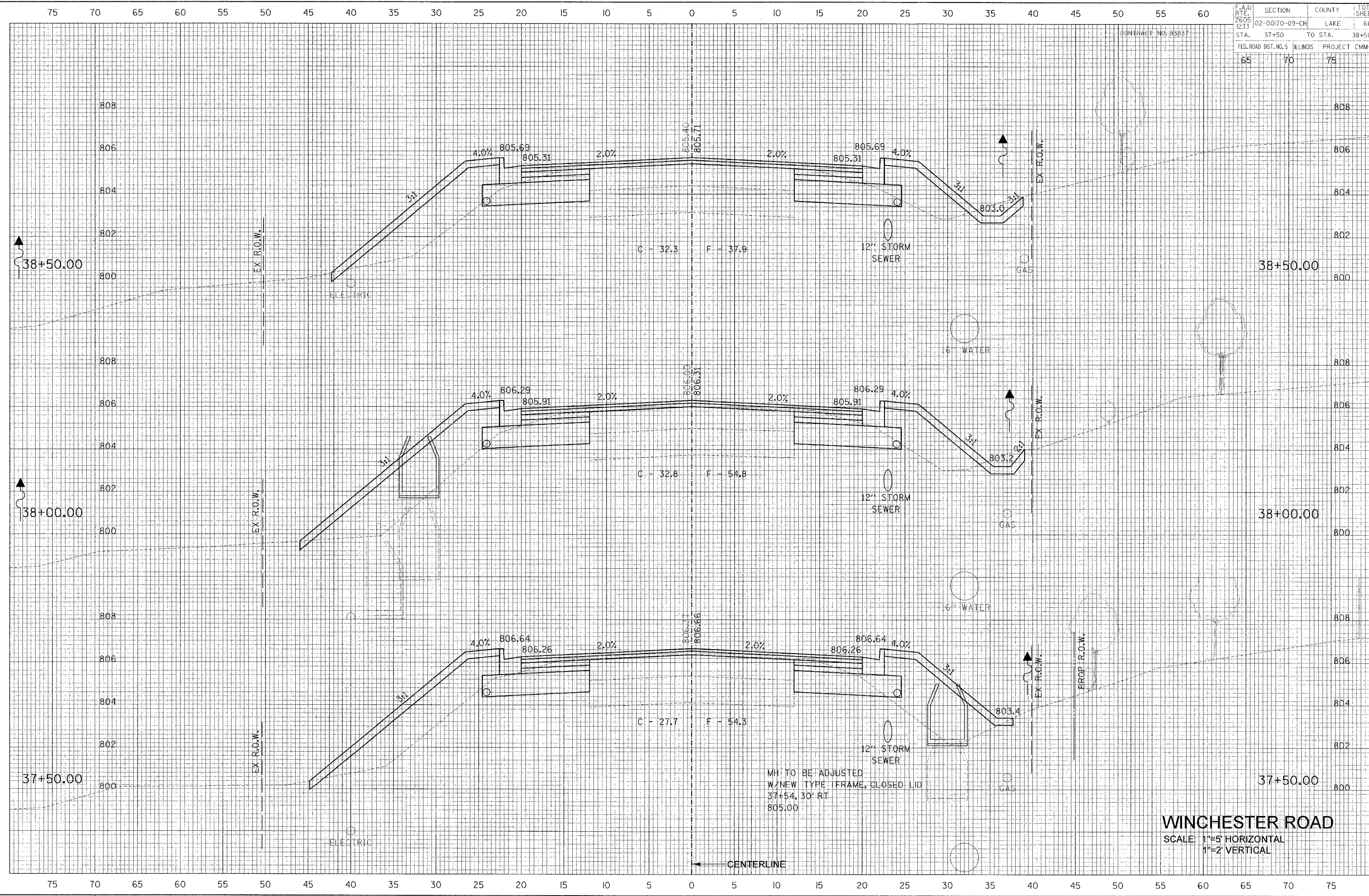
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 75

F.A.U. DATE: 2/23/05	SECTION: 02-00170-09-CH	COUNTY: LAKE	TOTAL SHEETS: 66
STA. 37+50	TO STA. 38+50	PROJECT: CMM-8003(207)	SHEET NO.: 58
FED. ROAD DIST. NO. 5 ILLINOIS		PROJECT CMM-8003(207)	
65		75	

CONTRACT NO. 85837

BY: _____ DATE: _____
 SURVEYED: _____
 TEMPLATES: _____
 AREAS CHECKED: _____
FINAL SURVEY
 NOTE BOOK No. _____

BY: _____ DATE: _____
 SURVEYED: _____
 TEMPLATES: _____
 AREAS CHECKED: _____
ORIGINAL SURVEY
 NOTE BOOK No. _____



WINCHESTER ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

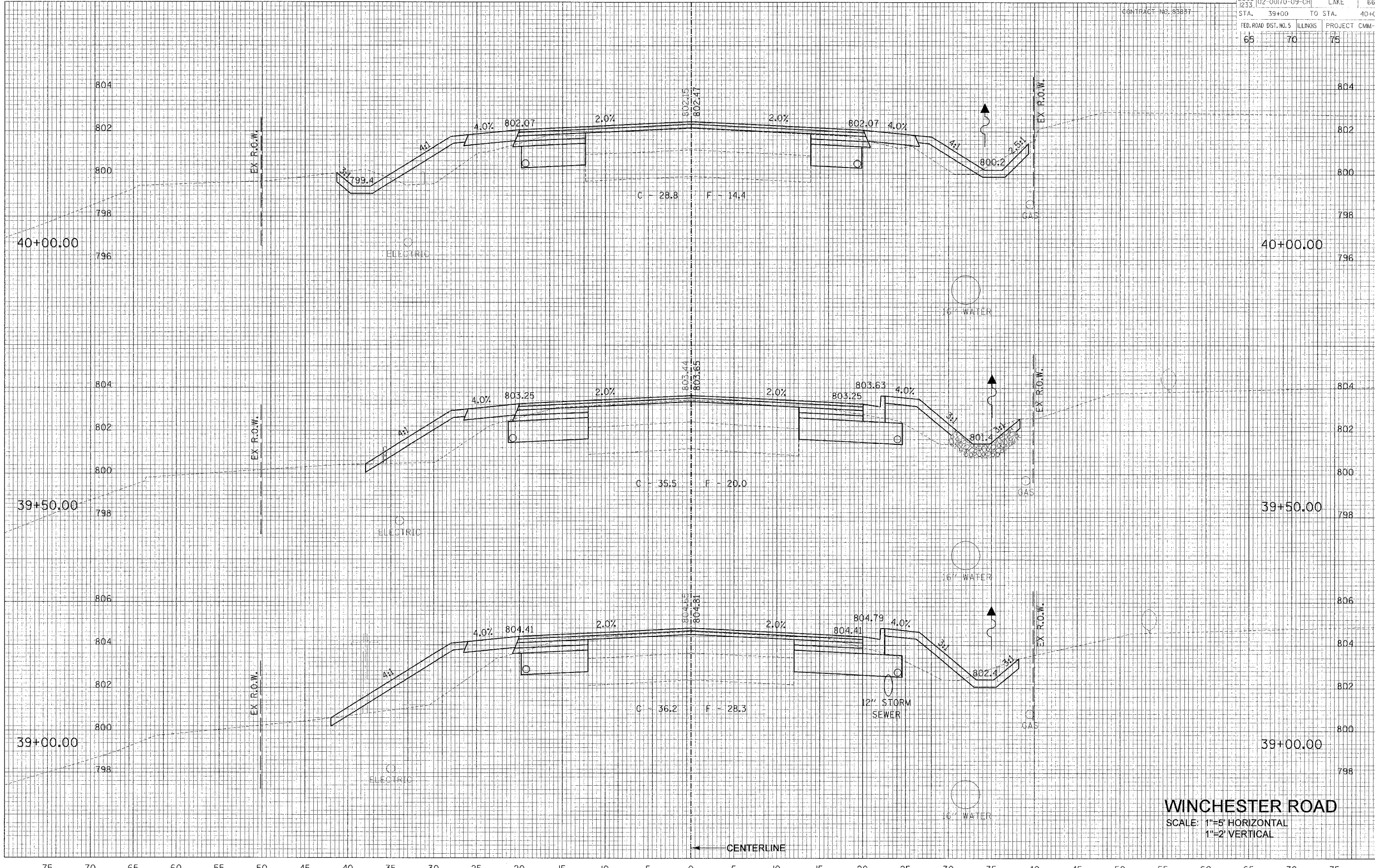
PLANNING AND DESIGN SERVICES, INC. 11/05/05

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. DATE: 2605 1233	SECTION: 02-0010-09-CH	COUNTY: LAKE	TOTAL SHEETS: 66	SHEET NO.: 59
STA. 39+00	TO STA. 40+00	PROJECT: CMM-8003(207)		
FED. ROAD DIST. NO. 5	ILLINOIS	CONTRACT NO. 88887		
65	70	75		

DATE: _____ BY: _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATES: _____
 AREAS CHECKED: _____
FINAL SURVEY NOTE BOOK
 No. _____

DATE: _____ BY: _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATES: _____
 AREAS CHECKED: _____
ORIGINAL SURVEY NOTE BOOK
 No. _____



WINCHESTER ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

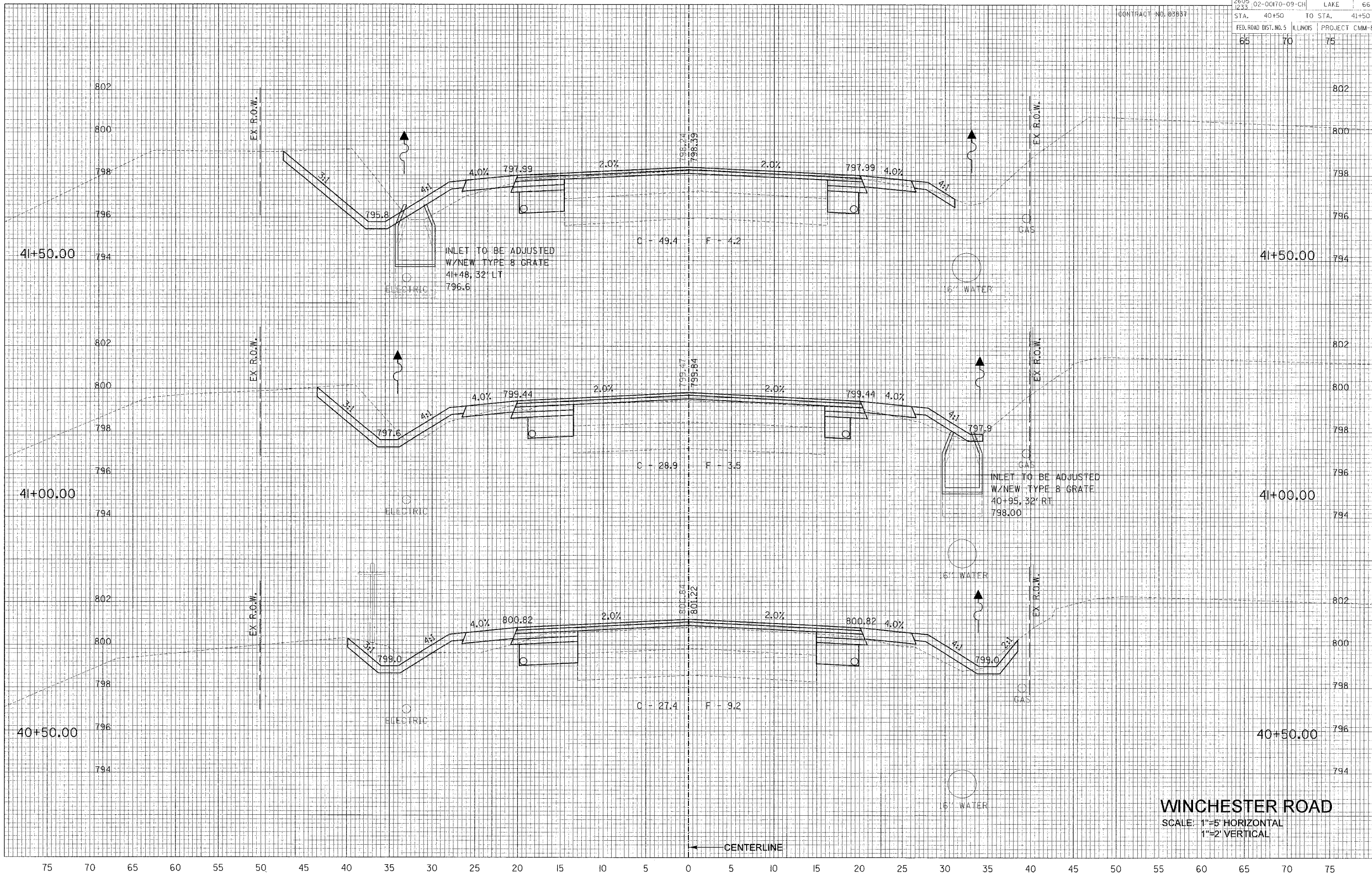
THIS DRAWING IS THE PROPERTY OF THE ILLINOIS STATE BOARD OF SURVEYORS AND ENGINEERS. IT IS TO BE KEPT IN THE OFFICE OF THE BOARD AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE BOARD.

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. RATE: 2835	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 60
CONTRACT NO. B3357				
STA. 40+50	TO STA. 41+50			
FED. ROAD DIST. NO. 5	ILLINOIS PROJECT CMM-8003(207)			
65	70	75		

DATE _____
BY _____
SURVEYED _____
PLOTTED _____
TEMPLATES _____
AREAS _____
AREAS CHECKED _____
FINAL SURVEY NOTE BOOK No. _____

DATE _____
BY _____
SURVEYED _____
PLOTTED _____
TEMPLATES _____
AREAS _____
AREAS CHECKED _____
ORIGINAL SURVEY NOTE BOOK No. _____



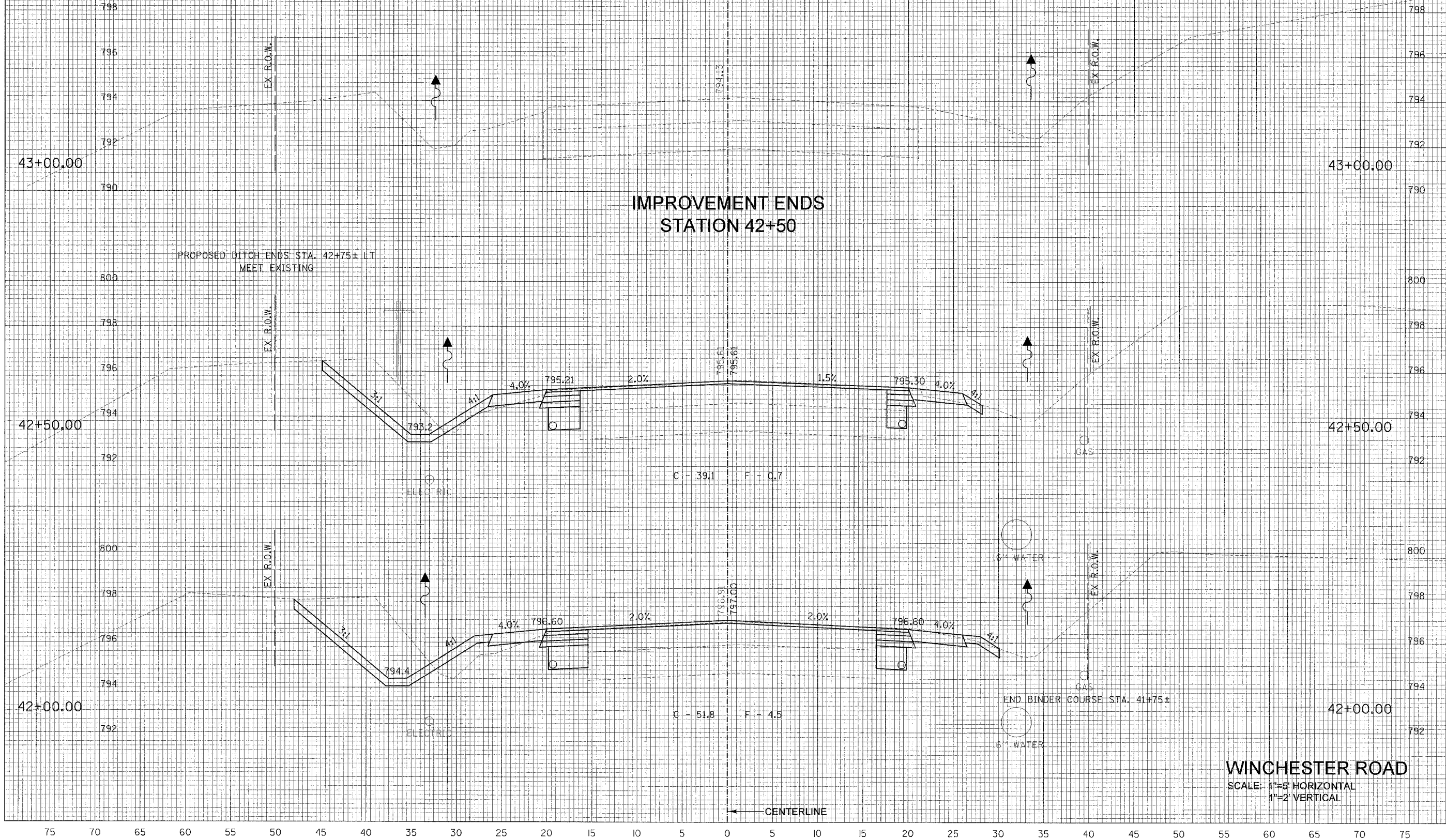
WINCHESTER ROAD
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

F.A.U. SITE: 2605 1233	SECTION: 02-00170-09-CH	COUNTY: LAKE	TOTAL SHEETS: 66	SHEET NO.: 61
STA. 42+00	TO STA. 43+00	CONTRACT NO. 83857		
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT: CMM-8003(207)		
65	70	75		

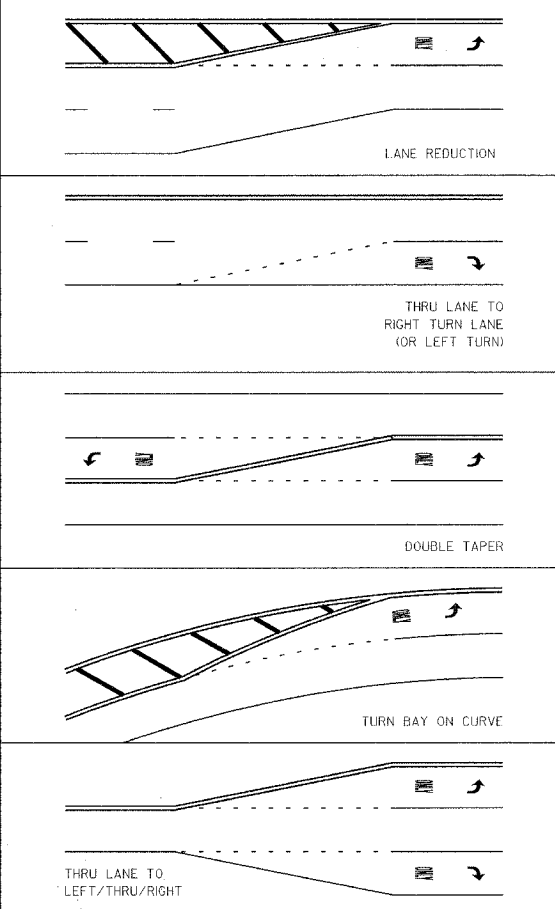
DATE: _____
 B. _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATES: _____
 AREAS CHECKED: _____
 FINAL SURVEY NOTE BOOK NO. _____

DATE: _____
 B. _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATES: _____
 AREAS CHECKED: _____
 ORIGINAL SURVEY NOTE BOOK NO. _____



WINCHESTER ROAD
 SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

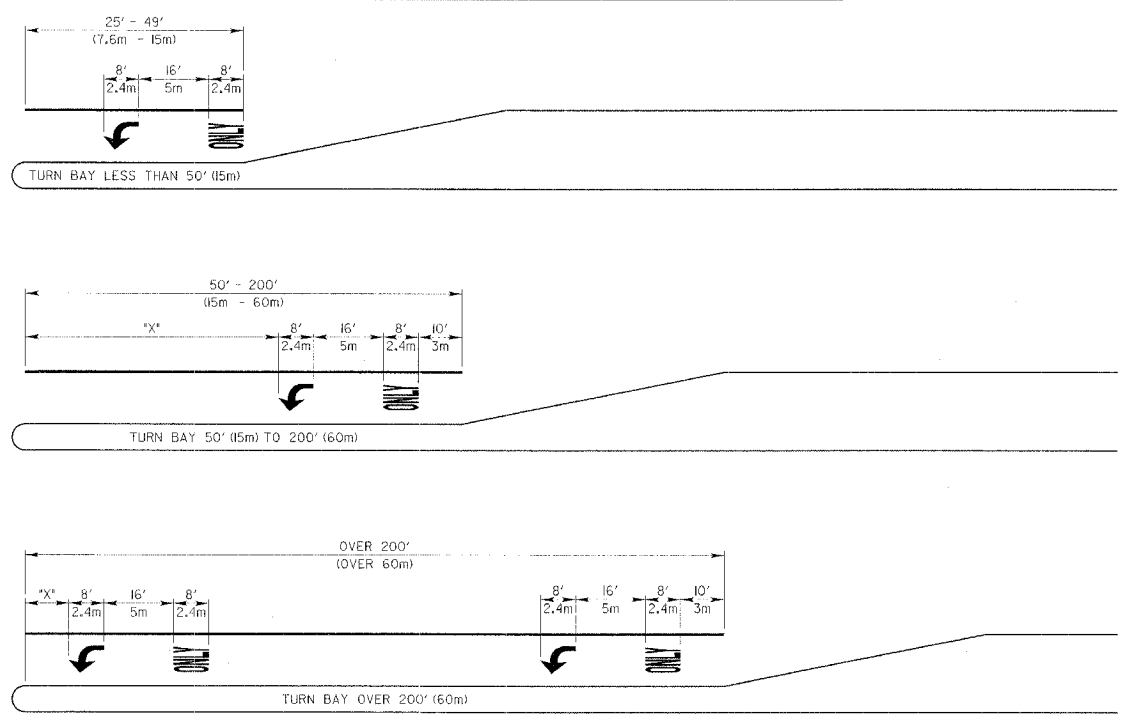
TYPICAL MINI-SKIP PAVEMENT MARKINGS



MINI-SKIPS ARE 2 FEET (600mm) WHITE LINE WITH 6 FEET (1.8m) SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE, IT EXTENDS.

TYPICAL PAVEMENT MARKINGS

TYPICAL TURN BAY PAVEMENT MARKINGS

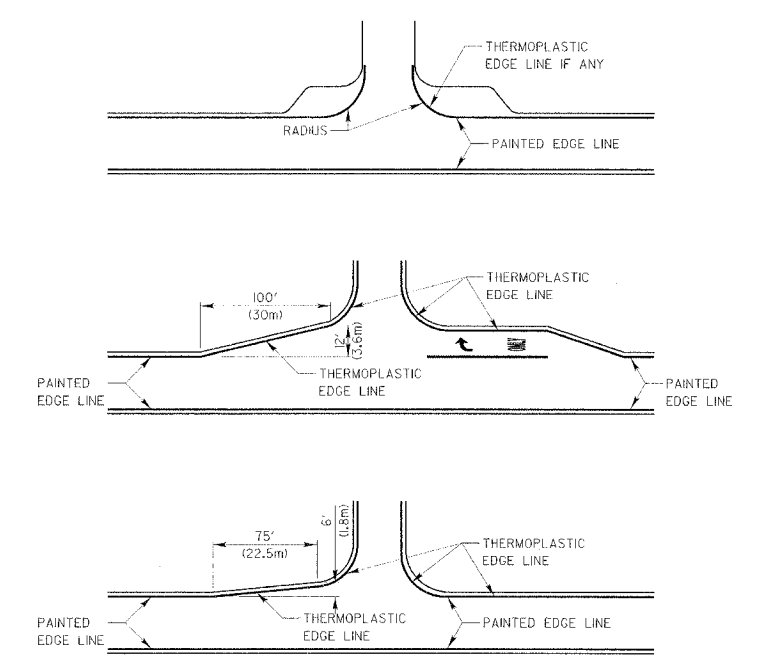


AREA = 15.6 SQ. FT. (1.5 SQ. m)

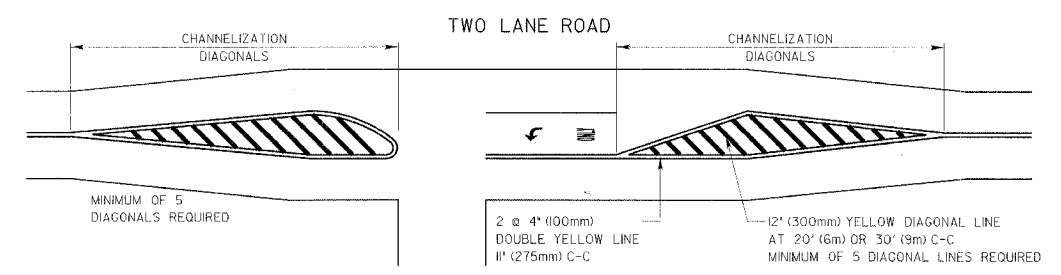
AREA = 20.8 SQ. FT. (1.9 SQ. m)

AT INTERSECTIONS WITH VIDEO DETECTION THE DISTANCE "X" SHALL BE A MINIMUM OF 30' (9m). FULL SIZE LETTERS (8" (2.4m)) AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' (120m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ "ONLY".

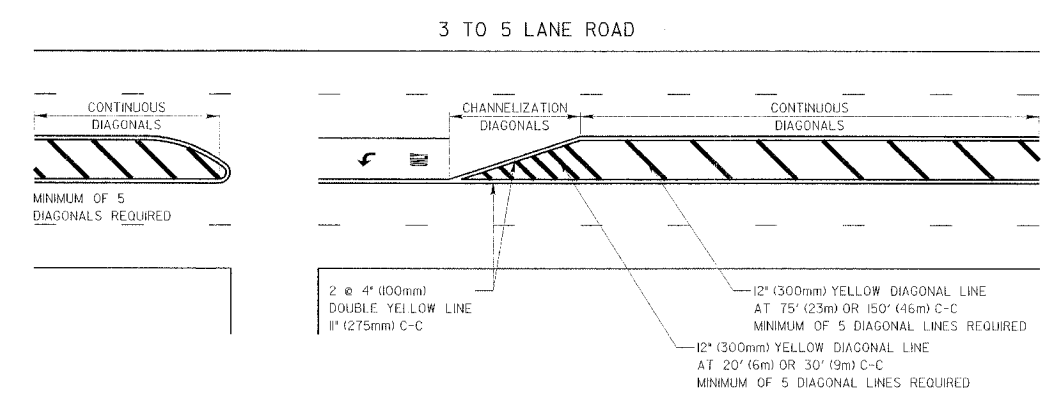
EDGE LINE RADII AT SIDE STREETS



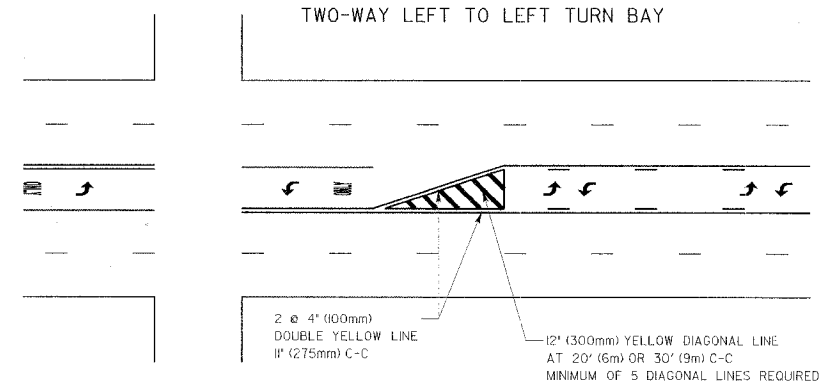
TYPICAL DIAGONAL SPACING



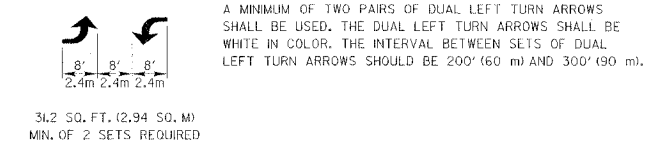
SPEED LIMIT RANGE	DIAGONAL SPACING	
	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT. (20m)	20 FT. (6m)
OVER 45 MPH	150 FT. (45m)	30 FT. (9m)



TWO-WAY LEFT TO LEFT TURN BAY



DUAL LEFT TURN ARROWS



REVISIONS	
NAME	DATE
JOHN SAUTER	7/77/99
JOHN SAUTER	11/01/01

Lake County
Division of Transportation

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

SCALE: NONE SHEET 1 OF 3 DRAWN BY: JPS
DATE: JAN. 12, 1998 CHECKED BY: ANK

TYPICAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS

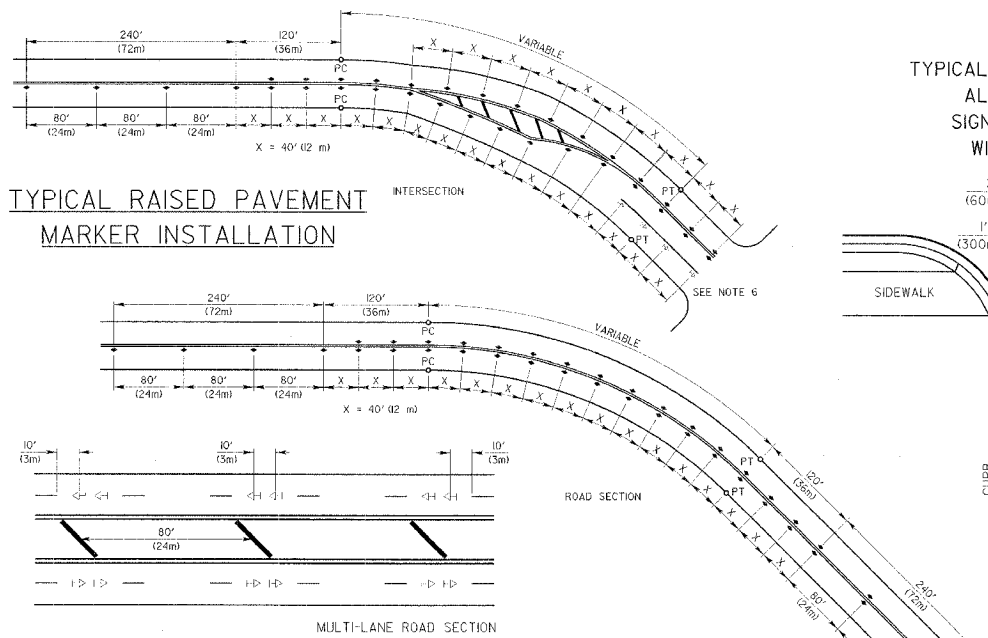
F.A.U. RTE. 2605 1233	SECTION 02-00170-09-CH	COUNTY LAKE	TOTAL SHEETS 66	SHEET NO. 63
TYPICAL PAVEMENT MARKINGS				
FED. ROAD DIST. NO. 5 ILLINOIS PROJECT CMM-8003(207)				
CONTRACT NO. 83837				

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN.	SOLID	YELLOW	6 IN. C-C FROM SKIP-DASH CENTERLINE
CENTERLINE ON MULTI-LANE UNDIVIDED LANE LINES	2 @ 4 IN.	SOLID	YELLOW	12 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
DOTTED LINES (EXTENSIONS OF CENTERLINE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	WHITE	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. STRAIGHT ARROW 11.5 SQ. FT. ONLY 20.8 SQ. FT. COMB. ARROW 25.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 6 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
	8 FT. LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24/36 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. WITH 12 IN. DIAGONALS @ 45° NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW - 2-WAY TRAFFIC WHITE - 1-WAY TRAFFIC	12 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL
GORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 MPH) 20 FT. C-C (30 TO 45 MPH) 30 FT. C-C (OVER 45 MPH) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE I.D.O.T. STD. 780001 50 FT. AREA OF: "R" - 3.6 SQ. FT. / "R" "X" - 54.0 SQ. FT.
SHOULDER DIAGONALS	12 IN. @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 MPH) 75 FT. C-C (30 TO 45 MPH) 150 FT. C-C (OVER 45 MPH) MINIMUM OF 5 DIAGONALS

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND I.D.O.T. HIGHWAY STANDARD 780001 EFFECTIVE JAN. 9, 1998.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	100 mm	SKIP-DASH	YELLOW	3 m LINE WITH 9 m SPACE
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 mm	SOLID	YELLOW	150 mm C-C FROM SKIP-DASH CENTERLINE
CENTERLINE ON MULTI-LANE UNDIVIDED LANE LINES	2 @ 100 mm	SOLID	YELLOW	300 mm C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
DOTTED LINES (EXTENSIONS OF CENTERLINE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	WHITE	3 m LINE WITH 9 m SPACE
EDGE LINES	125 mm WHITE 100 mm YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	150 mm LINE FULL SIZE LETTERS AND SYMBOLS (2.4 m)	SOLID	WHITE	TURN ARROW 1.5 SQ. m COMB. ARROW 2.4 SQ. m STRAIGHT ARROW 1.5 SQ. m ONLY 19 SQ. m
TWO WAY LEFT TURN MARKING	2 @ 100 mm EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m LINE WITH 9 m SPACE FOR SKIP-DASH 150 mm C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
	2.4 m LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK	300 mm @ 90°	SOLID	WHITE	300 mm LONGITUDINAL BAR WITH 300/300 mm SPACE, 1.8 m TO 3.6 m WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	600 mm	SOLID	WHITE	PLACE 1.2 m IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 100 mm WITH 300 mm DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m WIDE MEDIAN	SOLID	YELLOW - 2-WAY TRAFFIC WHITE - 1-WAY TRAFFIC	300 mm C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL
GORE MARKING AND CHANNELIZING LINES	200 mm WITH 300 mm DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 4.6 m C-C (LESS THAN 30 MPH) 6 m C-C (30 TO 45 MPH) 9 m C-C (OVER 45 MPH) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	400 mm TRANSVERSE LINES RR IS 1.8 m LETTER 400 mm LINE FOR "X"	SOLID	WHITE	SEE I.D.O.T. STD. 780001 SQUARE METER AREA OF: "R" - 0.33 SQ. m / "R" "X" - 5.0 SQ. m
SHOULDER DIAGONALS	300 mm @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15.2 m C-C (LESS THAN 30 MPH) 23.0 m C-C (30 TO 45 MPH) 45.7 m C-C (OVER 45 MPH) MINIMUM OF 5 DIAGONALS

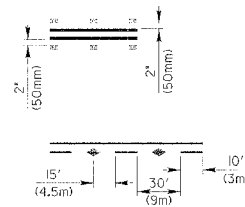
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND I.D.O.T. HIGHWAY STANDARD 780001 EFFECTIVE JAN. 9, 1998.



NOTES:

- SPACING = 40' (12 m) FOR CENTERLINE MARKERS.
- ALL RAISED PAVEMENT MARKERS ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
- MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.H.W.A. MEMORANDUM H10-21.
- MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' (9 m) GAP OF A 30'/10' (9 m/3 m) SKIP/DASH CENTERLINE.
- PAVEMENT MARKERS WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
- A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
- PAVEMENT MARKER PAIRS ON MULTI-LANE ROAD SECTIONS SHALL BE 80' (24 m) CENTER TO CENTER, SPACING WITHIN EACH PAIR SHALL BE 10', CENTERED WITHIN THE 30' (9 m) SKIP.

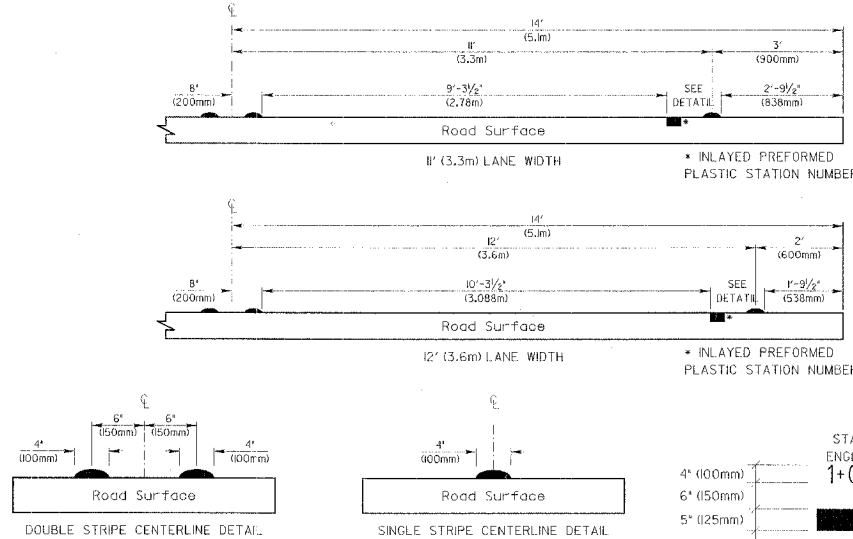
CENTER LINE PAVEMENT MARKER INSTALLATION DETAIL



PAVEMENT MARKER LEGEND

- OR RAISED PAVEMENT MARKER, DOUBLE YELLOW
- RAISED PAVEMENT MARKER, WHITE AND RED

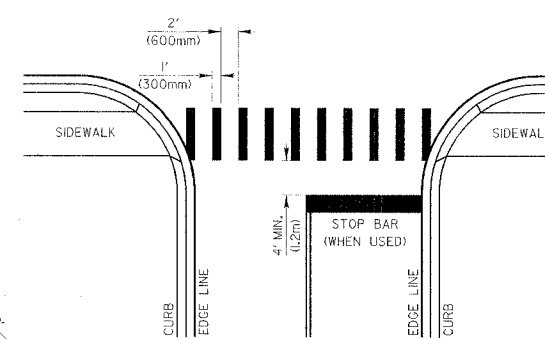
PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



DOUBLE STRIPE CENTERLINE DETAIL
SINGLE STRIPE CENTERLINE DETAIL

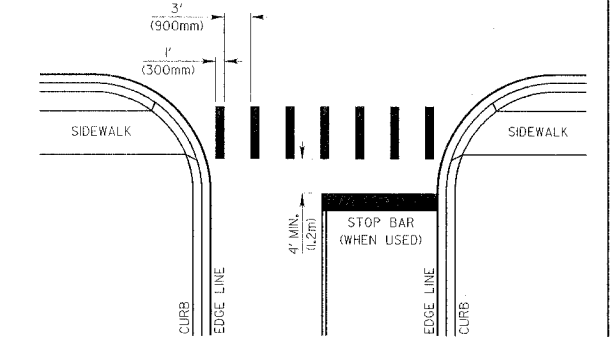
Note: Centerline markings are 4" (100mm) lines at 12" (300mm) centers. [Thermoplastic centerline markings are 4" (100mm) lines at 11" (275mm) centers.]

TYPICAL CROSSWALK INSTALLATION ALL LOCATIONS EXCEPT SIGNALIZED INTERSECTIONS WITH VIDEO DETECTION



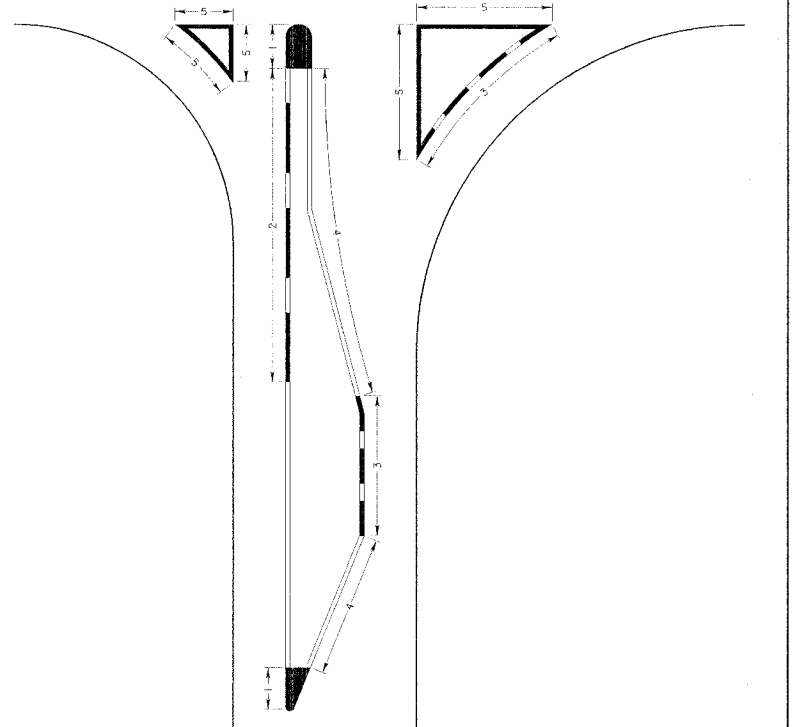
CROSSWALKS

TYPICAL CROSSWALK INSTALLATION FOR SIGNALIZED INTERSECTIONS WITH VIDEO DETECTION



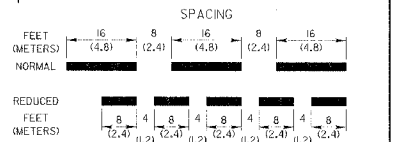
- WIDTH OF THE CROSSWALK IS GENERALLY 6' (1.8 m) EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS, WHICH CAN BE 8' (2.4 m).
- THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF 4' (1.2 m) IN ADVANCE OF THE CROSSWALK.

CURB MARKING



NOTES:

- PAINT CURB AND NOSE SOLID FOR 10' (3m) OR RADIUS OF NOSE, WHICHEVER IS GREATER.
- PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
- REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
- STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
- PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.



REVISIONS	DATE
JOHN SAUTER	7/7/99
JOHN SAUTER	11/7/01

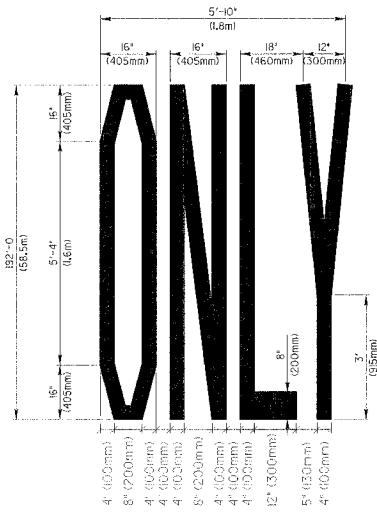
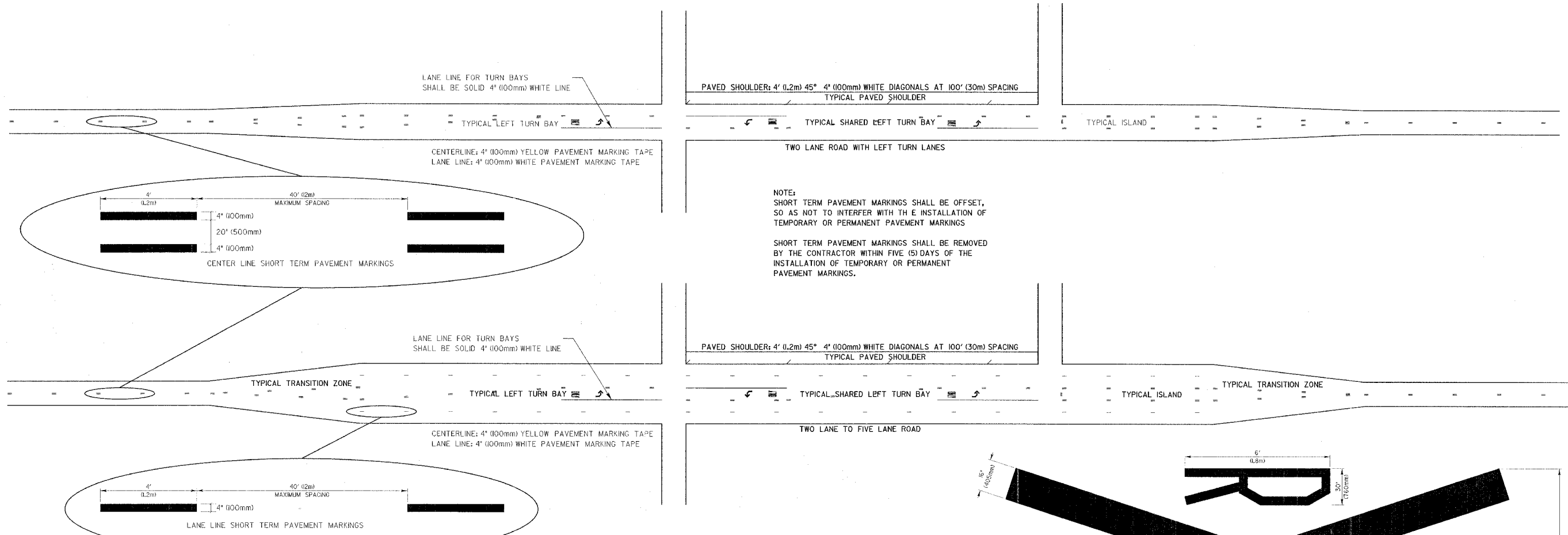
LakeCounty
Division of Transportation

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

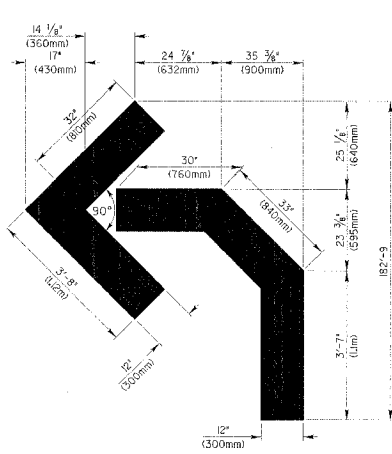
SCALE: NONE SHEET 2 OF 3 DRAWN BY: JPS
DATE: JAN. 12, 1998 CHECKED BY: ANK

F.A.U. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605 1233 02-00170-09-CH	LAKE	66	64
SHORT TERM PAVEMENT MARKINGS			
FED. ROAD DIST. NO. 5	ILLINOIS	PROJECT	CMM-8003(207)
CONTRACT NO. 93837			

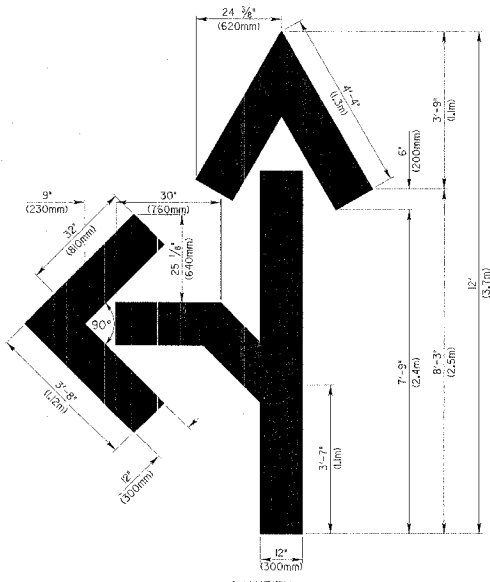
TYPICAL SHORT TERM PAVEMENT MARKINGS



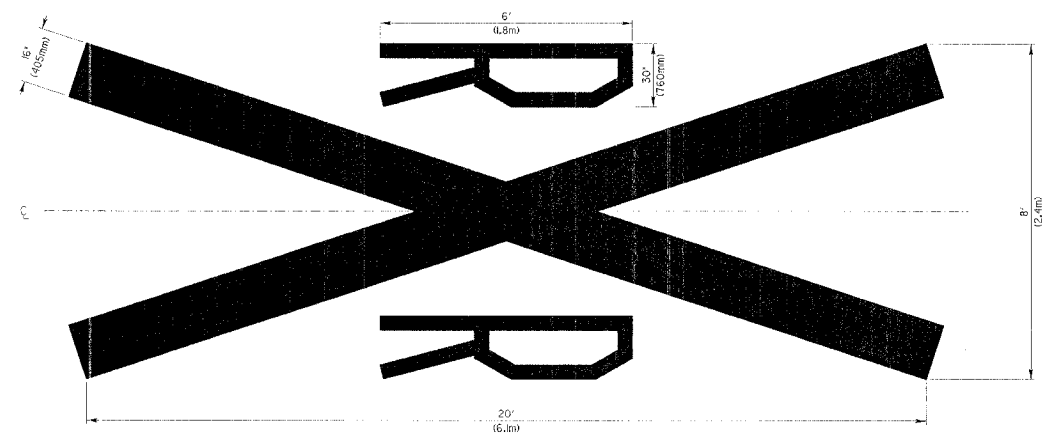
QUANTITY:
4" LINE = 64 FT. (12 SQ. FT.)
100mm LINE = 19.2m (1.95 sq. m)



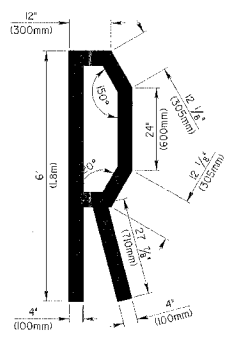
QUANTITY
4" LINE = 45 FT. (5 SQ. FT.)
100mm LINE = 13.5m (1.39 sq. m)



QUANTITY
4" LINE = 83 FT. (28 SQ. FT.)
100mm LINE = 25.3 M (2.6m)



QUANTITY
4" LINE = 200 FT. (67 SQ. FT.) (*X=172 FT.)
100mm LINE = 60m. (6.22 sq. m.) (*X= 51.6m.)
(*R=14 FT.) (*R= 4.2m.)



REVISION	
NAME	DATE
ADDED R,R, SYMBOLS, REVISED QUANTITIES	J.P.S. 12-5-00

Lake County
Division of Transportation

SHORT TERM PAVEMENT MARKING

SCALE: NOT TO SCALE
DATE: 06/02/00

DESIGNED BY JPS
CHECKED BY ANK

