

**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 616-365-1790 FAX: 616-365-1781  
 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 #MCHENRY #MONTLEY #YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

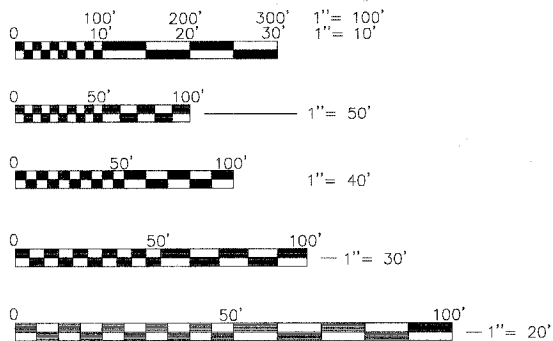
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY**

F.A.U. 3873 : ACKMAN ROAD FROM  
 F.A.U. 3869 (HALIGUS ROAD) TO F.A.U. 3870 (LAKEWOOD ROAD)  
 SECTION NO. 00-00243-00-FP  
**AND INTERSECTION IMPROVEMENTS, WIDENING AND RESURFACING  
 MCHENRY COUNTY**  
**PROJECT NO. M-RS-8003 (142)**  
**C-91-429-01**  
**COUNTY HIGHWAY A-46**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

SCALES  
 PLAN: 1" = 20'  
 PROFILE HORIZ.: 1" = 20'  
 PROFILE VERT.: 1" = 5'  
 CROSS SECTIONS HORIZ.: 1" = 2'  
 CROSS SECTIONS VERT.: 1" = 5'

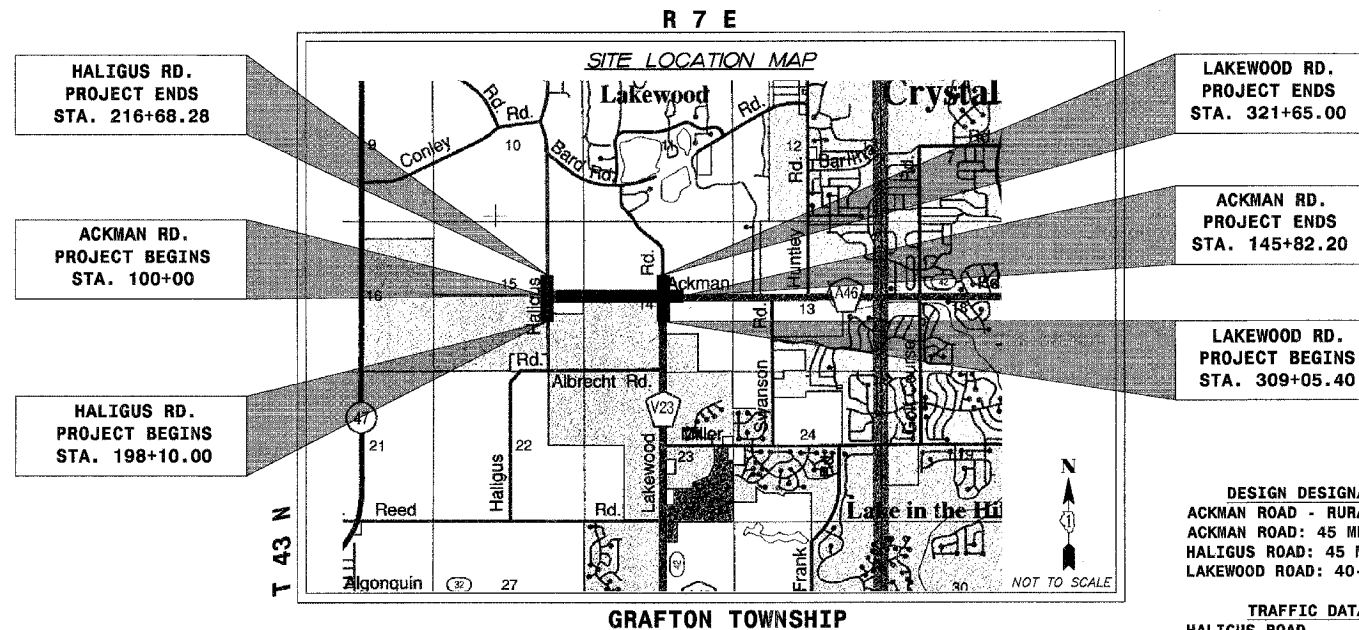


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROJECT LOCATED IN  
 THE VILLAGE OF LAKEWOOD  
 AND LAKE IN THE HILLS

CALL JULIE 1-800-892-0123

WITH THE FOLLOWING:  
 COUNTY MCHENRY  
 CITY-TOWNSHIP VILLAGES OF LAKE IN THE HILLS &  
 LAKEWOOD, GRAFTON TOWNSHIP  
 SEC. & 1/4 SEC. NO. # 14, 15  
 48 hours before you dig  
 (Excluding Sat., Sun. & Holidays)

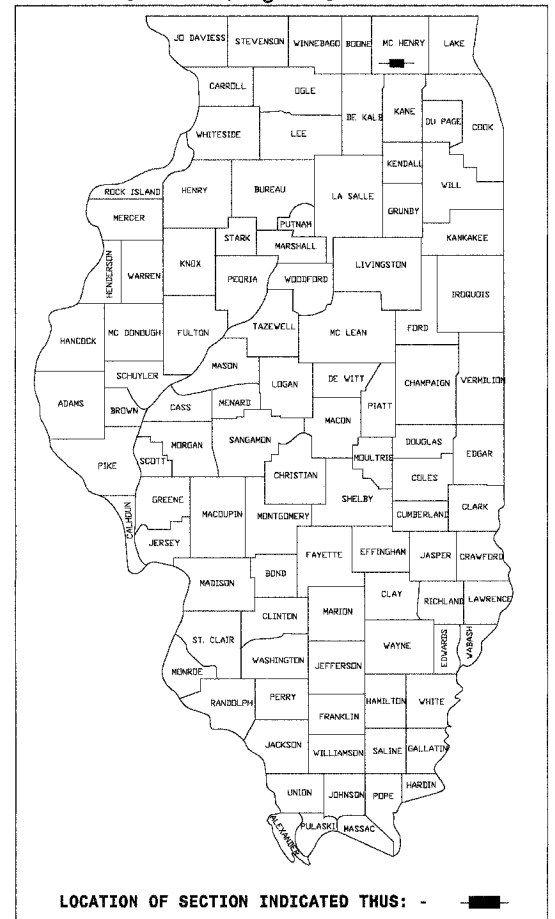


GROSS LENGTH OF PROJECT = 4,582.20 FEET = 0.8678 MILES  
 NET LENGTH OF PROJECT = 4,582.20 FEET = 0.8678 MILES

DESIGN DESIGNATION  
 ACKMAN ROAD - RURAL ARTERIAL  
 ACKMAN ROAD: 45 MPH  
 HALIGUS ROAD: 45 MPH  
 LAKEWOOD ROAD: 40-45 MPH

TRAFFIC DATA  
 HALIGUS ROAD : 1,440 (2000)  
 ACKMAN ROAD : 7,593 (2000)  
 LAKEWOOD ROAD (NORTH): 2,462 (2000)  
 LAKEWOOD ROAD (SOUTH): 7,073 (2000)

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	1
PROJECT NO. M-RS-8003 (142)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1				
CONTRACT 83840				



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

APPROVED JANUARY 17 2006  
*Joseph R. Korpelinski, Jr.*  
 DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER

APPROVED FEBRUARY 24 2006  
*[Signature]*  
 LOCAL ROADS ENGINEER

APPROVED Feb. 24 2006  
*Diane M. O'Keefe/CD*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

PRINTED BY AUTHORITY OF THE  
 STATE OF ILLINOIS

PROFESSIONAL ENGINEER'S SIGN & SEAL

*Theodore E. Hamilton*  
 THEODORE E. HAMILTON P.E.  
 Jan. 16, 2006  
 DATE: Nov. 30, 2007  
 LICENSE EXPIRES:

FEDERAL AID DESIGN ENGINEER: JESSICA MILLER (847) 705-4487

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3B73	00-00243-00-FP	MCHENRY	84	2
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

83840

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**GENERAL NOTES**

- 1 THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED. (TYPE I OR TYPE II (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
- 2 FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.
- 3 THE CONTRACTOR SHALL CONTACT THE VILLAGE OF LAKEWOOD / VILLAGE OF LAKE IN THE HILLS AT LEAST 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.
- 4 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LAKEWOOD / VILLAGE OF LAKE IN THE HILLS.
- 5 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON COUNTY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DIVISION OF TRANSPORTATION, OR ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION OF THE VILLAGE OF LAKEWOOD / THE VILLAGE OF LAKE IN THE HILLS.
- 6 BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE BUTT JOINT AND BITUMINOUS TAPER DETAILS SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 7 THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.10 GAL/SQ.-YD.
- 8 UNLESS OTHERWISE NOTED ALL OFFSETS FOR THE DRAINAGE STRUCTURES LOCATED IN THE CURB AND GUTTER ARE TO THE BACK OF CURB. OFFSETS FOR ALL OTHER STRUCTURES ARE TO THE CENTER OF THE GRATE.
- 9 PRIOR TO ANY EMBANKMENT PLACEMENT ALL VEGETATION, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENINGS ON EXISTING SLOPES SHOULD BE BENCHING AND PLACED IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 10 PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

11 SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE COST OF SAW CUTTING WILL BE INCLUDED IN THE COST OF ITEMS BEING REMOVED.

12 THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGES FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.

13 SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.

14 THE PAY ITEM FOR STORM SEWER REMOVAL AND PIPE CULVERT REMOVAL SHALL INCLUDE ANY TRENCH BACKFILL REQUIRED TO FILL AREA OF SEWER REMOVAL WHERE THERE IS NO REPLACEMENT. IF PROPOSED STORM SEWER IS REPLACED IN THE SAME TRENCH, THEN TRENCH BACKFILL SHALL BE PAID FOR SEPARATELY WITH THE QUANTITY SHOWN ON THE PLANS.

15 A SOILS REPORT IS ON FILE AND AVAILABLE FOR REVIEW AT THE SMITH ENGINEERING CONSULTANTS, INC. MCHENRY OFFICE UPON REQUEST.

**LIST OF STATE STANDARDS**

STANDARD NO.	LIST OF DESCRIPTION
000001-04	STANDARD SYMBOLS ABBREVIATIONS AND PATTERNS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
420001-06	PAVEMENT JOINTS
424001-04	Curb RAMPs FOR Sidewalks
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001	SUB-SURFACE DRAINS
602001	CATCH BASINS, TYPE A
602011	CATCH BASIN, TYPE C
602301-01	INLET - TYPE A
602401-01	MANHOLE TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-02	FRAME AND LIDS TYPE 1
604036-01	GRATE, TYPE B
604056-02	FRAME AND GRATE TYPE 11V
604086-01	FRAME AND GRATE TYPE 23
606001-02	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
606006	OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-15.60
606301-02	PC CONCRETE ISLANDS AND MEDIANS
701006-02	OFF-RD OPERATIONS 2L, 2W 4.5m (15') TO PAVEMENT EDGE, FOR SPEEDS >= 45 MPH
701011-01	OFF-RD MOVING OPERATIONS 2L, 2W DAY ONLY FOR SPEEDS >= 45 MPH
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS >= 45 MPH
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS >= 45 MPH
701501-03	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
702001-06	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
BLR-21-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR-22-4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS 2L, 2W ROAD CLOSED TO THRU TRAFFIC

**SYMBOL LEGEND**

	EXISTING	PROPOSED
SANITARY MANHOLE	⊙	⊙
STORM MANHOLE	⊙	⊙
STORM CATCH BASIN	⊙	⊙
INLET	⊙	⊙
FLARED END SECTION	⊙	⊙
VALVE VAULT	⊙	⊙
FIRE HYDRANT	⊙	⊙
LIGHT POLE	⊙	⊙
STREET SIGN	⊙	⊙
REGULATORY SIGN	⊙	⊙
UTILITY POLE	⊙	⊙
UTILITY BOX	⊙	⊙
MAILBOX	⊙	⊙
WELL	⊙	⊙
SANITARY SEWER	—	—
STORM SEWER	—	—
CULVERT	—	—
WATER MAIN	—	—
WATER MAIN ENCASEMENT	—	—
STORM UNDERDRAIN	—	—
ELECTRIC LINE	—	—
TELEPHONE LINE	—	—
GAS LINE	—	—
CABLE TV LINE	—	—
TREELINE	—	—
TREE	—	—
FENCE	—	—
EROSION CONTROL FENCE	—	—
DITCH CHECK	—	—
DRAINAGE ARROW	—	—
100 YEAR OVERFLOW	—	—

**STANDARD ABBREVIATIONS**

- B-B - BACK TO BACK OF CURB
- B.C. - BACK OF CURB
- B.O.C. - BACK OF CURB
- B.S.L. - BUILDING SETBACK LINE
- C.B. - STORM CATCH BASIN
- C.E. - COMMONWEALTH EDISON CO.
- D.E. - DRAINAGE EASEMENT
- E-E - EDGE TO EDGE OF PAVEMENT
- E.O.P. - EDGE OF PAVEMENT
- E.O.S. - EDGE OF SHOULDER
- E.P. - EDGE OF PAVEMENT
- E.S. - EDGE OF SHOULDER
- F.E.S. - FLARED END SECTION
- I.B.T. - ILLINOIS BELL TELEPHONE CO.
- L.E. - LANDSCAPE EASEMENT
- M.H. - MANHOLE (TYPE SPECIFIED ON PLANS)
- R.O.W. - RIGHT OF WAY
- T.B.F. - TRENCH BACKFILL
- T.C. - TOP OF CURB
- T.C.E. - TEMPORARY CONSTRUCTION EASEMENT
- T.O.B. - TOP OF BERM
- T.O.C. - TOP OF CURB
- U.E. - UTILITY EASEMENT

**SITE BENCHMARKS**

BM 1:  
Lakewood Road - Sta. 321+45.66, 32.59' Right  
"X" cut on bolt of valve. Elevation = 906.08

REVISIONS	
NO.	DATE
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ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

GENERAL NOTES AND  
LIST OF STATE STANDARDS

SCALE: "NTS" DRAWN BY CJP  
DATE 10-05-2005 CHECKED BY TEH

PLOT FILE: STANDARD  
DATE: 10/5/05  
DRAWN: TEH

SUMMARY OF QUANTITIES			URBAN CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 80% FEDERAL 20% LOCAL 1000-1A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	185	185
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	205	205
20200100	EARTH EXCAVATION	CU YD	63,805	63,805
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	25,311	25,311
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	4,998	4,998
20800150	TRENCH BACKFILL	CU YD	60	60
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	5,115	5,115
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	46,345	46,345
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	810	810
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	810	810
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	810	810
25100630	EROSION CONTROL BLANKET	SQ YD	46,345	46,345
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	900	900
28000300	TEMPORARY DITCH CHECKS	EACH	48	48
28000400	PERIMETER EROSION BARRIER	FOOT	13,584	13,584
28000500	INLET AND PIPE PROTECTION	EACH	21	21
28000510	INLET FILTERS	EACH	4	4
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	25,464	25,464
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	22,135	22,135
40600300	AGGREGATE (PRIME COAT)	TON	80	80
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	245	245
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	6,510	6,510
44000100	PAVEMENT REMOVAL	SQ YD	5,890	5,890
44000500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	FOOT	120	120
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,236	1,236
48101200	AGGREGATE SHOULDERS, TYPE B	TON	45	45
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	5,400	5,400
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	3,830	3,830
50105220	PIPE CULVERT REMOVAL	FOOT	409	409
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2
54214080	ALUMINUM END SECTIONS 15"	EACH	4	4
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	1	1
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	2	2
54215340	ALUMINUM END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	6	6
54247100	GRATING FOR CONCRETE FLARED END SECTION 15"	EACH	4	4
54247110	GRATING FOR CONCRETE FLARED END SECTION 18"	EACH	1	1
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	2	2
54248160	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 36"	EACH	2	2
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	53	53
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	50	50
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	56	56
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	60	60
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	51	51
542D5470	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	81	81
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	19	19

SUMMARY OF QUANTITIES			URBAN CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 80% FEDERAL 20% LOCAL 1000-1A
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	84	84
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	232	232
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	13	13
550A0130	STORM SEWERS, CLASS A, TYPE 1 27"	FOOT	19	19
55100900	STORM SEWER REMOVAL 18"	FOOT	30	30
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	2	2
60107600	PIPE UNDERDRAINS, 4"	FOOT	3,023	3,023
60108100	PIPE UNDERDRAINS, 4" (SPECIAL)	FOOT	50	50
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	1
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1
60602800	CONCRETE GUTTER, TYPE B	FOOT	1,180	1,180
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	7.2	7.2
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	167	167
67000400	ENGINEER'S FIELD OFFICE, TYPE A	GAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	4,080	4,080
70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	1,361	1,361
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3,424	3,424
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	619	619
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	62,793	62,793
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	8,067	8,067
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1,742	1,742
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	438	438
72000100	SIGN PANEL - TYPE 1	SQ FT	358	358
72000200	SIGN PANEL - TYPE 2	SQ FT	23	23
72900100	METAL POST - TYPE A	FOOT	240	240
72900200	METAL POST - TYPE B	FOOT	375	375
* 78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	620	620
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	22,062	22,062
* 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	2,312	2,312
* 78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	55	55
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	340	340
* 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	170	170
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	283	283
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	48	48
* A2000620	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10
* A2001020	TREE, ACER RUBRUM (RED MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10
* A2003320	TREE, FRAXINUS AMERICANA (WHITE ASH), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	1
* A2004620	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11

\* SPECIALTY ITEM

REVISIONS	
NO.	DATE
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 www.smithengineering.com E-Mail: sec@smithengineering.com  
 \* MCHENRY \* HUNTERVILLE \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 SUMMARY OF QUANTITIES

SCALE: NTS DRAWN BY: CJP  
 DATE: 10-05-2005 CHECKED BY: TEH

PLT: FILE: STANDARD  
 COMP: FILE: 030210SP.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	4
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
83840				

CODE NO.	ITEM	UNIT	URBAN CONSTRUCTION TYPE CODE	
			TOTAL QUANTITIES	ROADWAY
				80% FEDERAL 20% LOCAL 1000-1A
A2008120	TREE, TILIA CORDATA GREENSPIRE (GREENSPIRE LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10
B2000266	TREE, ACER GINNALA (AMUR MAPLE), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	32	32
B2000666	TREE, AMELANCHIER X GRANDIFLORA (APPLE SERVICEBERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	49	49
B2001266	TREE, CORNUS ALTERNIFOLIA (PAGODA DOGWOOD), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	2	2
B2001666	TREE, CRATAEGUS CRUSGALLI INERMIS (THORNLESS COCKSPUR HAWTHORN), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	30	30
B2002466	TREE, MAGNOLIA SOULANGIANA (SAUCER MAGNOLIA), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	35	35
B2004166	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	3	3
D2000172	EVERGREEN, ABIES CONCOLOR (WHITE FIR), 6' HEIGHT, BALLED AND BURLAPPED	EACH	29	29
D2002272	EVERGREEN, PICEA PUNGENS GLAUCA(COLORADO BLUE SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	18	18
D2002288	EVERGREEN, PICEA PUNGENS GLAUCA(COLORADO BLUE SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	2	2
D2002772	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	10	10
D2002788	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	31	31
D2001772	EVERGREEN, PICEA ABIES (NORWAY SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	7	7
D2001788	EVERGREEN, PICEA ABIES (NORWAY SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	6	6
D2001872	EVERGREEN, PICEA GLAUCA (WHITE SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	34	34
X006521	EVERGREEN, PICEA GLAUCA (WHITE SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	22	22
K1005421	SEEDING (SPECIAL)	ACRE	9.60	9.60
X006517	CATCH BASINS TO BE RELOCATED	EACH	2	2
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	153	153
X0712400	TEMPORARY PAVEMENT	SQ YD	2,029	2,029
X3550300	BITUMINOUS BASE COURSE SUPERPAVE 6"	SQ YD	1,216	1,216
X3550600	BITUMINOUS BASE COURSE SUPERPAVE 9"	SQ YD	670	670
X4021000	TEMPORARY ACCESS (PRIVATE DRIVE)	EACH	2	2
X4023000	TEMPORARY ACCESS (ROAD)	EACH	3	3
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	651	651
X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	420	420
X4073081	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 10"	SQ YD	6,942	6,942
X4073141	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 13"	SQ YD	14,375	14,375
X7011005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1
XX004007	BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	209	209
XX006066	SIGN TO BE RELOCATED	EACH	10	10
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	2	2
Z0076600	TRAINEES	HOUR	1,000	1,000
X004373	REMOVE & RELOCATE INLETS	EACH	2	2
B2001166	TREE, CERCIS CANADENSIS (Eastern Redbud), 6' Height, Clump Form, Balled and Burlapped	EACH	14	14
B2002266	TREE, CRATAEGUS VIRDIS WINTER KING (Winter King Green Hawthorn), 6' HEIGHT CLUMP FORM, BALLED AND BURLAPPED	EACH	10	10
XX006518	TREE, MALUS ASTROSANGUINEA (CARMINE CRABAPPLE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	37	37
XX006519	EVERGREEN, ABIES CONCOLOR (WHITE FIR), 8' HEIGHT, BALLED AND BURLAPPED	EACH	55	55
XX006520	AGGREGATE DRIVEWAY, 6"	SQ YD	51	51

\* SPECIALTY ITEM  
A Y080

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SMITH ENGINEERING CONSULTANTS, INC.  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
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www.smithengineering.com E-MAIL: sec@smithengineering.com  
\* MCHENRY \* HUNTLEY \* YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION  
SUMMARY OF QUANTITIES

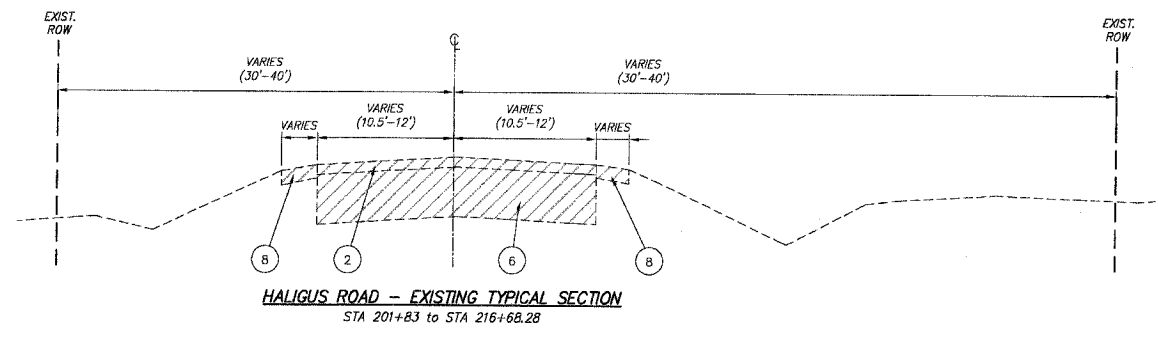
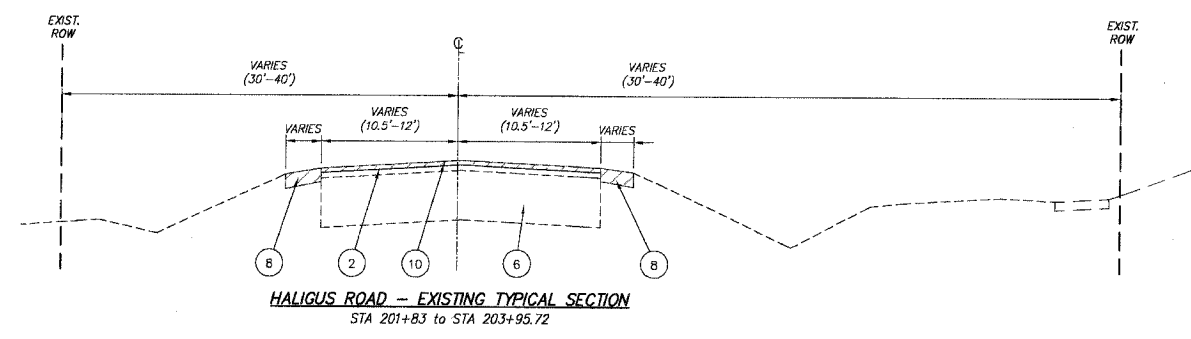
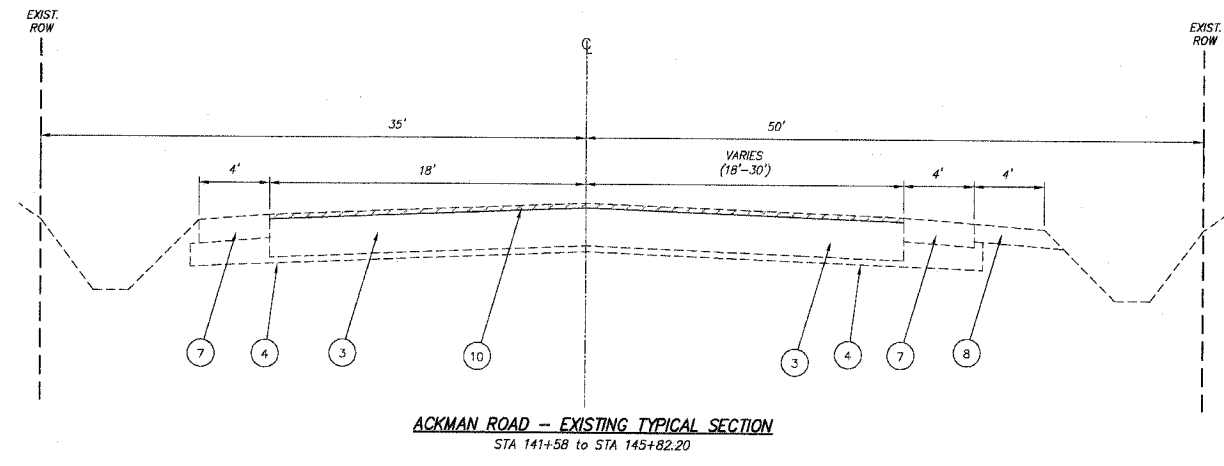
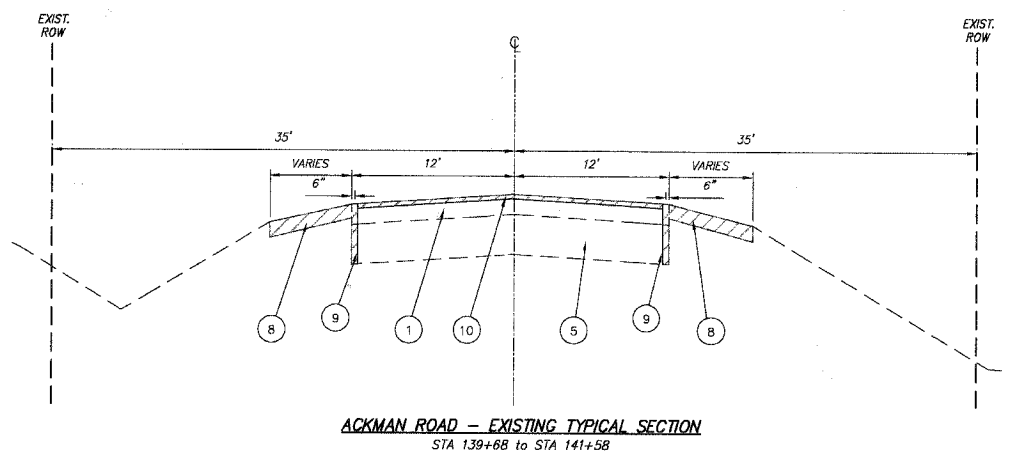
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DATE 09-09-2005

DRAWN BY CJP  
CHECKED BY TEH

PLT: FILE STANDARD  
COMP. FILE: 030210SP.dwg



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	05
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
83840				



**LEGEND**

- 1 EXISTING BITUMINOUS PAVEMENT, VARIES (7.5" - 8")
- 2 EXISTING BITUMINOUS PAVEMENT, VARIES (4" - 6")
- 3 EXISTING BITUMINOUS PAVEMENT, VARIES (8" - 10")
- 4 EXISTING GRANULAR BASE, VARIES (4" - 6")\*
- 5 EXISTING GRANULAR BASE, VARIES (11" - 14")\*
- 6 EXISTING GRANULAR BASE, VARIES (14" TO 18")\*
- 7 EXISTING BITUMINOUS SHOULDER
- 8 EXISTING AGGREGATE SHOULDER, 6"
- 9 PROPOSED SAW CUT, FULL DEPTH
- 10 PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2"

▨ ITEMS TO BE REMOVED

\* THE DEPTH OF EXISTING GRANULAR BASE REMOVAL SHALL BE DETERMINED BY THE PROPOSED SUBGRADE ELEVATION

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**SMITH ENGINEERING CONSULTANTS, INC.**  
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MCHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

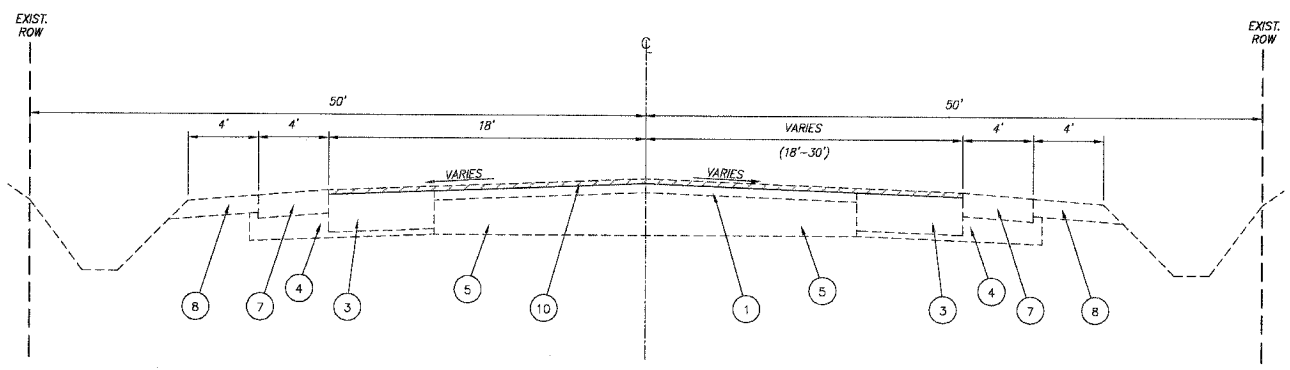
**EXISTING TYPICAL CROSS SECTIONS**  
**ACKMAN RD - HALIGUS RD**

SCALE: NTS DRAWN BY MRJ  
DATE 10-05-2005 CHECKED BY TEH

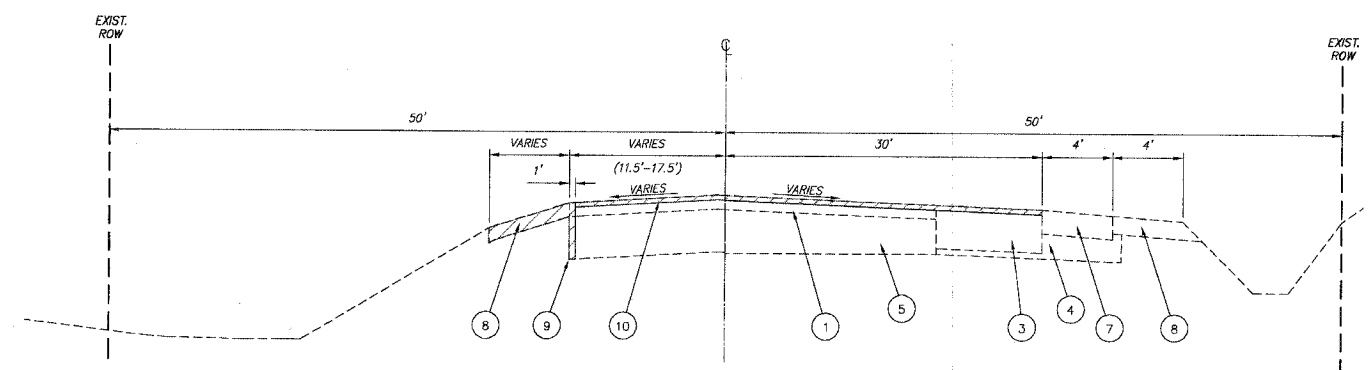
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CHECKED BY: TEH  
FILE: typical sections ackman.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	06
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

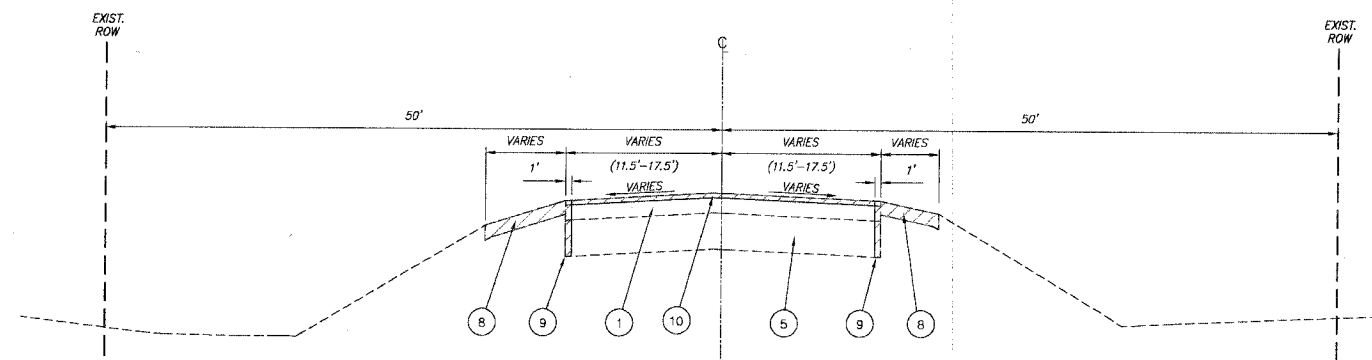
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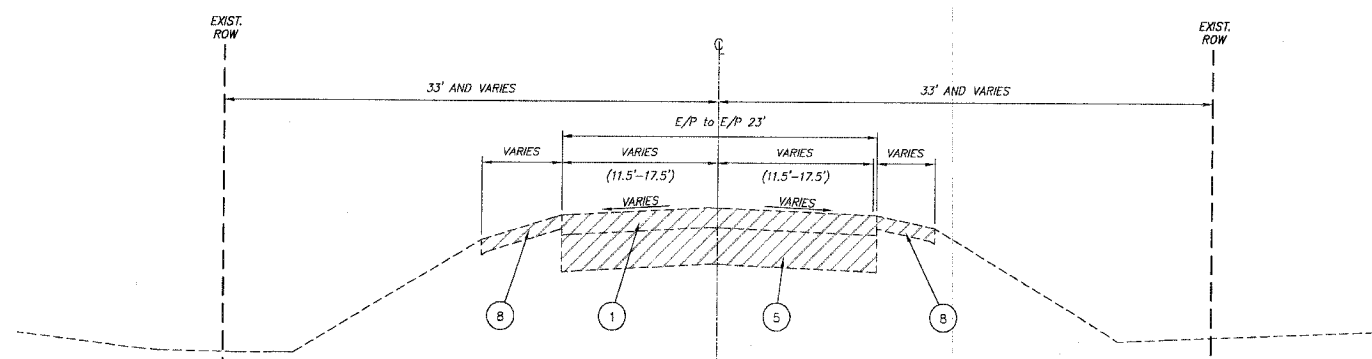
**LAKWOOD ROAD - EXISTING TYPICAL SECTION**  
STA 309+05 to STA 312+05



**LAKWOOD ROAD - EXISTING TYPICAL SECTION**  
STA 312+05 to STA 313+73



**LAKWOOD ROAD - EXISTING TYPICAL SECTION**  
STA 313+73 to STA 315+06



**LAKWOOD ROAD - EXISTING TYPICAL SECTION**  
STA 315+06 to STA 321+65

NOTE:  
LAKWOOD ROAD TO BE RESURFACED FROM STA. 321+65 TO STA 324+65 WITH 1.5" OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX D, N70 DUE TO TRAFFIC STAGING TAPERS.

**LEGEND**

- ① EXISTING BITUMINOUS PAVEMENT, VARIES (7.5" - 8")
- ② EXISTING BITUMINOUS PAVEMENT, VARIES (4" - 6")
- ③ EXISTING BITUMINOUS PAVEMENT, VARIES (8" - 10")
- ④ EXISTING GRANULAR BASE, VARIES (4" - 6")\*
- ⑤ EXISTING GRANULAR BASE, VARIES (11" - 14")\*
- ⑥ EXISTING GRANULAR BASE, VARIES (14" TO 18")\*
- ⑦ EXISTING BITUMINOUS SHOULDER
- ⑧ EXISTING AGGREGATE SHOULDER, 6"
- ⑨ PROPOSED SAW CUT, FULL DEPTH
- ⑩ PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2"

▨ ITEMS TO BE REMOVED

\* THE DEPTH OF EXISTING GRANULAR BASE REMOVAL SHALL BE DETERMINED BY THE PROPOSED SUBGRADE ELEVATION

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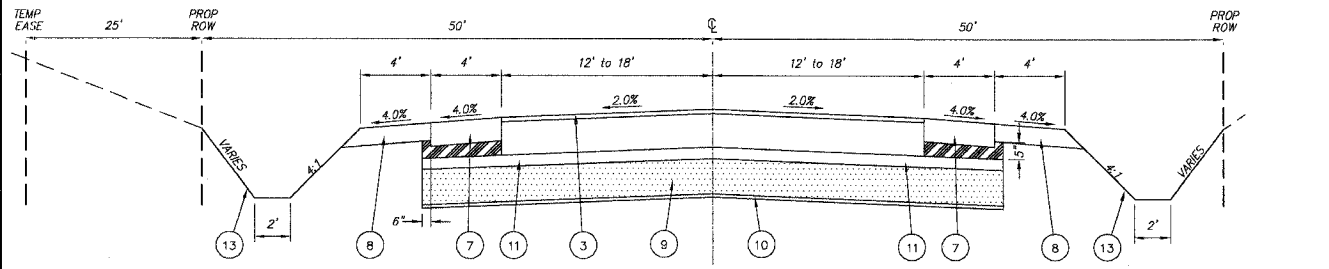
**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**EXISTING TYPICAL**  
**CROSS SECTIONS - LAKEWOOD RD**

SCALE: NTS DRAWN BY MRJ  
DATE 10-05-2005 CHECKED BY TEH

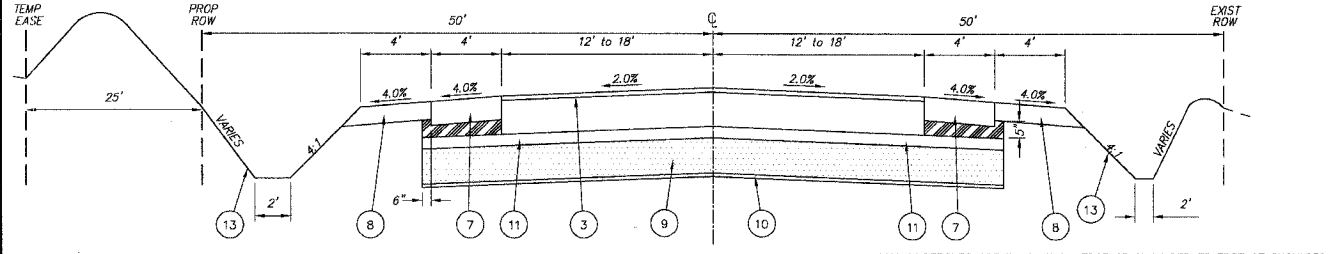
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VIEW: CE-06  
COMP. FILE: typical sections.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	7
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		



**ACKMAN ROAD - PROPOSED TYPICAL SECTION**  
STA 100+00 to STA 113+00

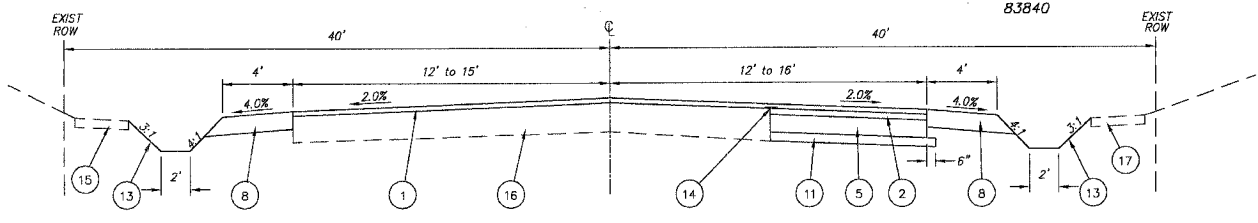
\*ALL UNDERCUTS ARE TO BE FROM EDGE OF SHOULDER TO EDGE OF SHOULDER  
PGES, 16" W/FABRIC & UNDERDRAIN - STA. 100+00 TO STA. 102+50  
PGES, 24" W/FABRIC - STA. 107+00 TO STA. 113+50



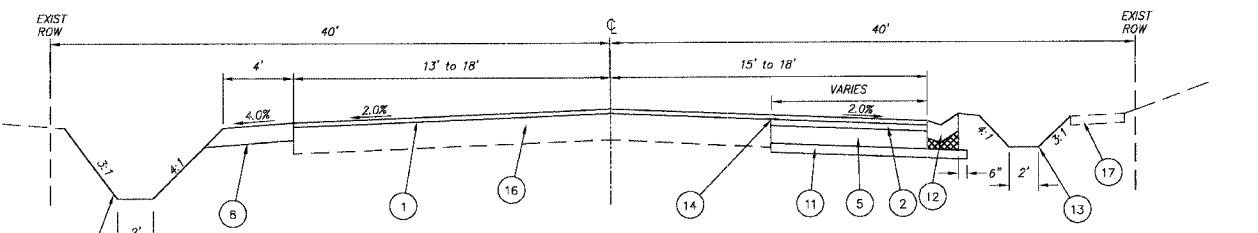
**ACKMAN ROAD - PROPOSED TYPICAL SECTION**  
STA 113+00 to STA 140+00

\*BERM ALONG GOLF COURSE FROM STA 121+50 TO STA 134+50

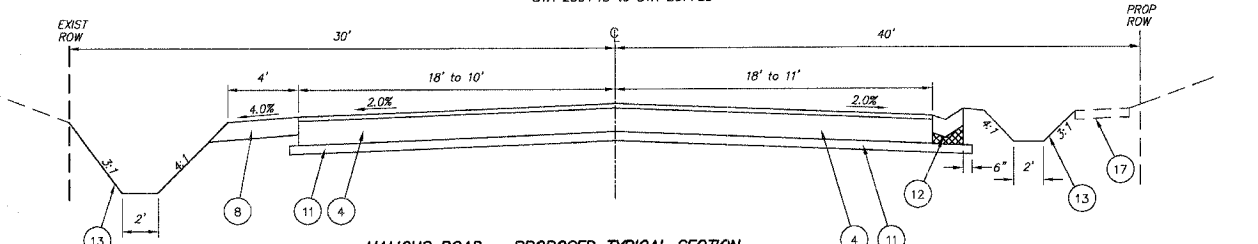
\*ALL UNDERCUTS ARE TO BE FROM EDGE OF SHOULDER TO EDGE OF SHOULDER  
PGES, 24" W/FABRIC - STA. 107+00 TO STA. 113+50  
PGES, 24" W/UNDERDRAIN - STA. 126+00 TO STA. 132+00  
PGES, 10" W/UNDERDRAIN - STA. 132+00 TO STA. 135+00



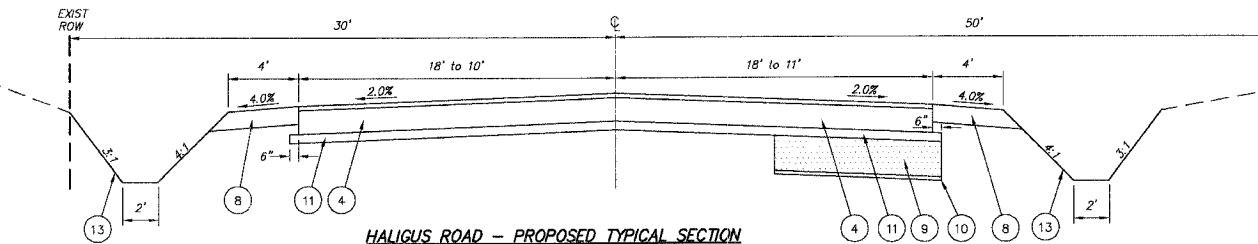
**HALIGUS ROAD - PROPOSED TYPICAL SECTION**  
STA 198+10 to STA 200+43



**HALIGUS ROAD - PROPOSED TYPICAL SECTION**  
STA 200+43 to STA 201+83

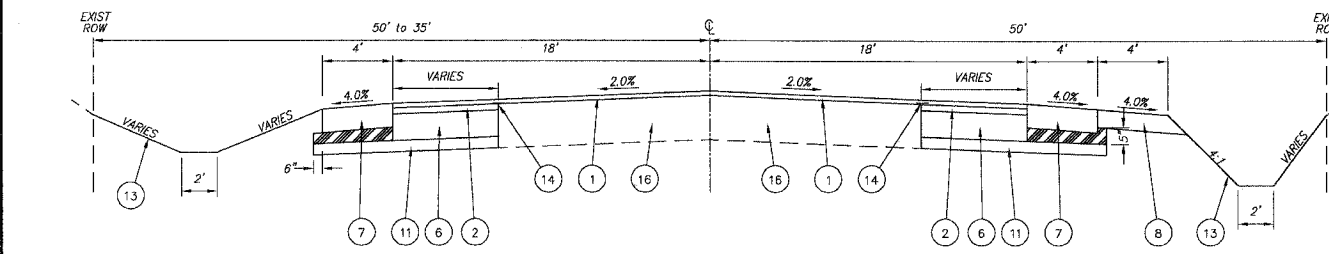


**HALIGUS ROAD - PROPOSED TYPICAL SECTION**  
STA 201+83 to STA 203+95.72

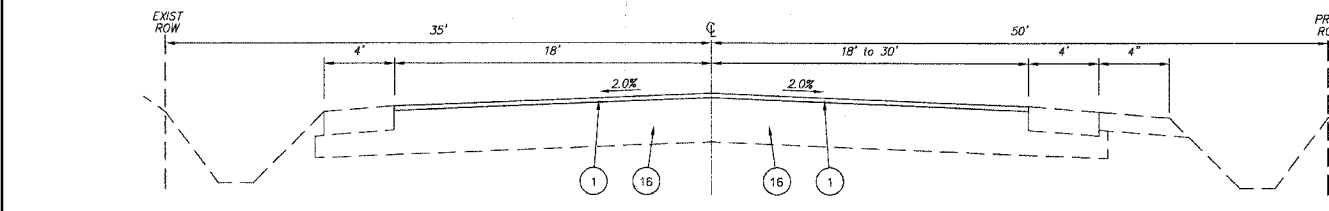


**HALIGUS ROAD - PROPOSED TYPICAL SECTION**  
STA 203+95.72 to STA 216+68.28

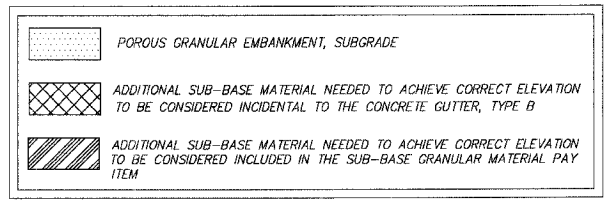
\*UNDERCUTS ARE FOR WIDENING ONLY.  
PGES, 18" W/UNDERDRAIN - STA. 203+00 TO STA. 207+50  
PGES, 16" W/FABRIC & UNDERDRAIN - STA. 207+50 TO STA. 209+50  
PGES, 24" W/FABRIC & UNDERDRAIN - STA. 209+50 TO STA. 214+50



**ACKMAN ROAD - PROPOSED TYPICAL SECTION**  
STA 140+00 to STA 141+58



**ACKMAN ROAD - PROPOSED TYPICAL SECTION**  
STA 141+58 to STA 145+82.20



**LEGEND**

1 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1.5"	9 POROUS GRANULAR EMBANKMENT, SUBGRADE
2 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70, 2.5"	10 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
3 BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 13"	11 SUBBASE GRANULAR MATERIAL, TYPE B, 4"
(BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 2")	12 CONCRETE GUTTER, TYPE B
(BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70, 11")	13 TOPSOIL FURNISH AND PLACE 6" & SEEDING (SPECIAL)
4 BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 10"	14 STRIP REFLECTIVE CRACK CONTROL TREATMENT
(BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 2")	15 EXISTING SIDEWALK
(BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70, 8")	16 EXISTING PAVEMENT TO REMAIN
5 BITUMINOUS BASE COURSE, SUPERPAVE, 6"	17 EXISTING BITUMINOUS BIKE PATH
6 BITUMINOUS BASE COURSE, SUPERPAVE, 9"	
7 BITUMINOUS SHOULDER, SUPERPAVE, 8"	
8 AGGREGATE SHOULDER, TYPE B, 6"	

"POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINE IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE THE CONTRACTOR. THE LIMITS OF THE PGES SHALL EXTEND 6" BEYOND THE EDGE OF THE BITUMINOUS SHOULDER (OR EDGE OF PAVEMENT IF NO BITUMINOUS SHOULDER).

**SMITH ENGINEERING CONSULTANTS, INC.**  
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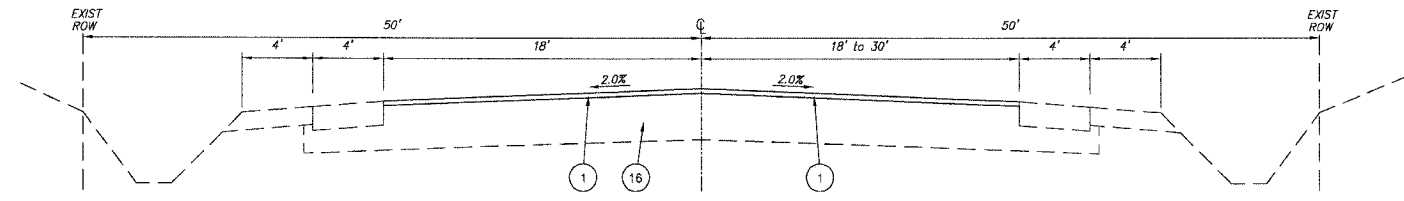
**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**PROPOSED TYPICAL CROSS SECTIONS**  
**ACKMAN RD - HALIGUS RD**  
SCALE: NTS DRAWN BY MRJ  
DATE 10-05-2005 CHECKED BY TEH

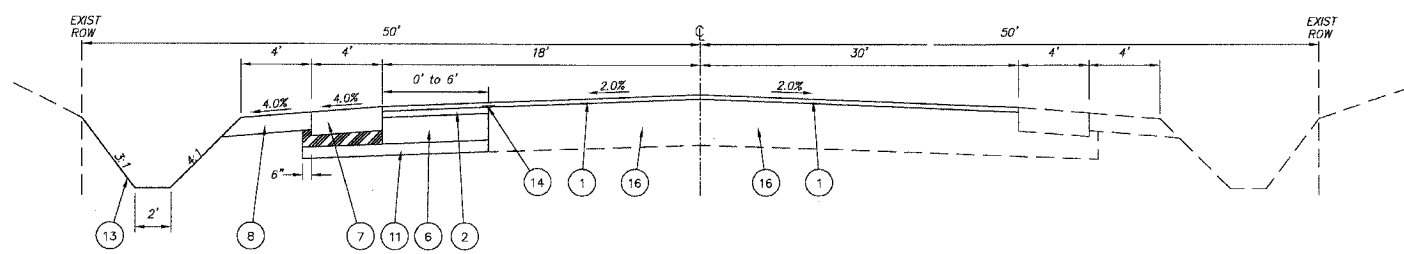
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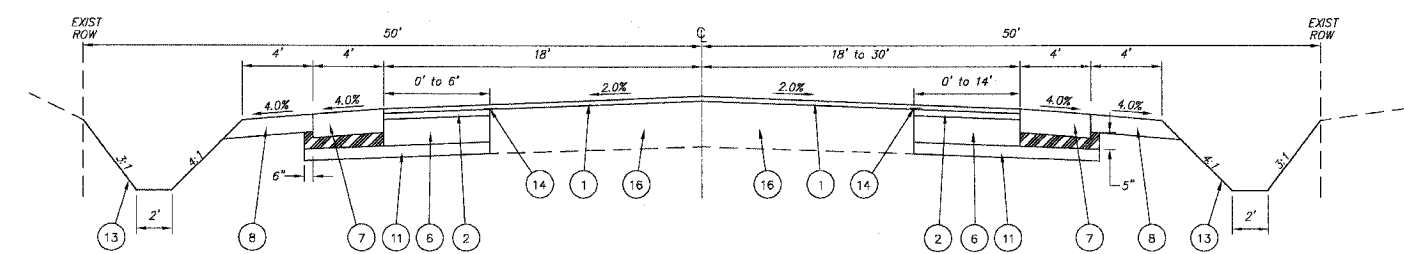
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	8
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
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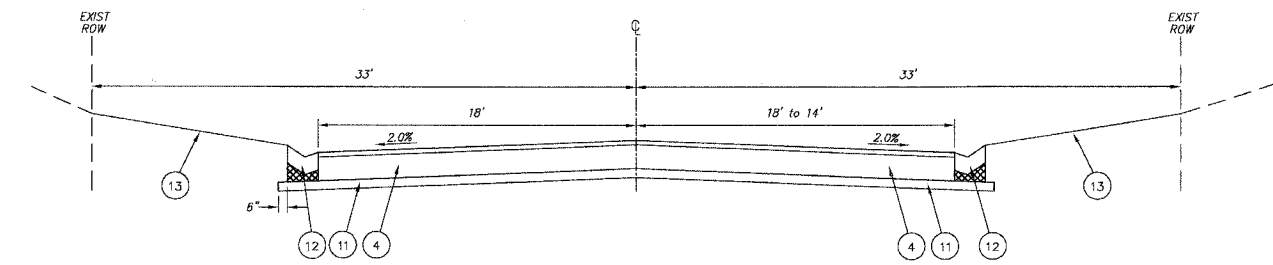
LAKWOOD ROAD - PROPOSED TYPICAL SECTION  
STA 309+05 to STA 312+05



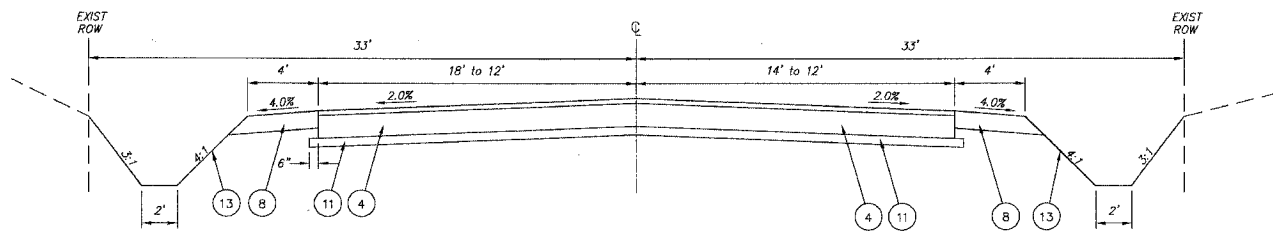
LAKWOOD ROAD - PROPOSED TYPICAL SECTION  
STA 312+05 to STA 313+73



LAKWOOD ROAD - PROPOSED TYPICAL SECTION  
STA 313+73 to STA 315+06



LAKWOOD ROAD - PROPOSED TYPICAL SECTION  
STA 315+06 to STA 319+50



LAKWOOD ROAD - PROPOSED TYPICAL SECTION  
STA 319+50 to STA 321+65 \*\*

**LEGEND**

- POROUS GRANULAR EMBANKMENT, SUBGRADE
- ADDITIONAL SUB-BASE MATERIAL NEEDED TO ACHIEVE CORRECT ELEVATION TO BE CONSIDERED INCIDENTAL TO THE CONCRETE GUTTER
- ADDITIONAL SUB-BASE MATERIAL NEEDED TO ACHIEVE CORRECT ELEVATION TO BE CONSIDERED INCLUDED IN THE SUB-BASE GRANULAR MATERIAL PAY ITEM

"POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSUITABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINE IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE THE CONTRACTOR. THE LIMITS OF THE PGES SHALL EXTEND 6" BEYOND THE EDGE OF THE BITUMINOUS SHOULDER (OR EDGE OF PAVEMENT IF NO BITUMINOUS SHOULDER).

BITUMINOUS MIXTURE REQUIREMENT			
ITEM DESCRIPTION	AC TYPE	VOIDS	RAP %
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70	PC 64-22	4% @ 70 Gyr.	10%
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70	PC 64-22	4% @ 70 Gyr.	15%
BITUMINOUS BASE COURSE, SUPERPAVE 6" & 9"	PC 58-22	2% @ 50 Gyr.	50%
BITUMINOUS SHOULDERS, SUPERPAVE B"	PC 58-22	2% @ 30 Gyr.	50%
TEMPORARY PAVEMENT	PC 58-22	2% @ 50 Gyr.	50%

"THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH."

**LEGEND**

- 1 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1.5"
- 2 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 2.5"
- 3 BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 13" (BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 2") (BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 11")
- 4 BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 10" (BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 2") (BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 8")
- 5 BITUMINOUS BASE COURSE, SUPERPAVE, 6"
- 6 BITUMINOUS BASE COURSE, SUPERPAVE, 9"
- 7 BITUMINOUS SHOULDER, SUPERPAVE, B"
- 8 AGGREGATE SHOULDER, TYPE B, 6"
- 9 POROUS GRANULAR EMBANKMENT, SUBGRADE
- 10 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 11 SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- 12 CONCRETE GUTTER, TYPE B
- 13 TOPSOIL FURNISH AND PLACE 6" & SEEDING (SPECIAL)
- 14 STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 15 EXISTING SIDEWALK
- 16 EXISTING PAVEMENT TO REMAIN
- 17 EXISTING BITUMINOUS BIKE PATH

\* UNDERCUTS ARE FOR WIDENING ONLY.  
PGE, SUBGRADE 10" W/UNDERDRAIN - STA. 319+50 TO STA. 321+10  
\*\* LAKWOOD ROAD TO BE RESURFACED WITH BITUMINOUS CONCRETE SURFACE FROM STA. 321+65 TO STA. 324+65

REVISIONS	
NAME	DATE

**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-396-1778 FAX: 815-385-1781  
www.smithengineering.com E-MAIL: sec@smithengineering.com  
\* MCHENRY \* DEWITTELL \* YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

PROPOSED TYPICAL  
CROSS SECTIONS - LAKEWOOD RD  
SCALE: NTS  
DATE 10-05-2005  
DRAWN BY MRJ  
CHECKED BY TEH

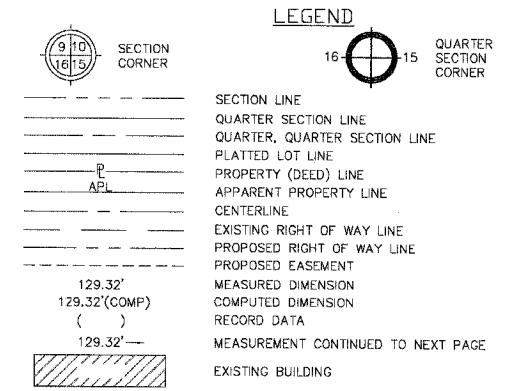
PLANT FILE STANDARD  
 FOR FILE  
 COMM. FILE: Typical sections admant.lmk

PARCEL NO.	OWNER	TOTAL HOLDING AREA	AREA TAKEN	PREV. DED'D OR USED AREA	REMAINING AREA	EASEMENT AREA	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY:
0008 0008 TE-1 0008 TE-2	BARRINGTON, HARRIS BANK NA. TRUST #11-4159	75.116 AC.	2.831 AC.	0.000 AC.	72.285 AC.	0.270 AC. 0.149 AC.	TEMPORARY CONSTRUCTION	18-15-200-013 18-14-100-009	MCH-2004ME-634.0
0009	WILLIAM B. & KAREN L. RABY & GLEN C. & PATRICIA PETERSON	10.005 AC.	0.309 AC.	0.000 AC.	9.696 AC.	0.000 AC.		18-15-200-004	MCH-2004ME-636.0
0010	WILLIAM B. & KAREN L. RABY	4.995 AC.	0.153 AC.	0.000 AC.	4.9842 AC.	0.000 AC.		18-15-200-007	MCH-2004ME-637.0
0011	THOMAS E. WEIDENMILLER	16.882 AC.	0.305 AC.	0.000 AC.	16.577 AC.	0.000 AC.		18-15-200-009	MCH-2004ME-635.0

**PART OF SEC 15 T. 43 N., R. 7 E. OF THE THIRD PRINCIPAL MERIDIAN IN McHENRY COUNTY ILLINOIS.**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	McHENRY	84	09

PROJECT NO. M-8003 (142)  
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1  
83840

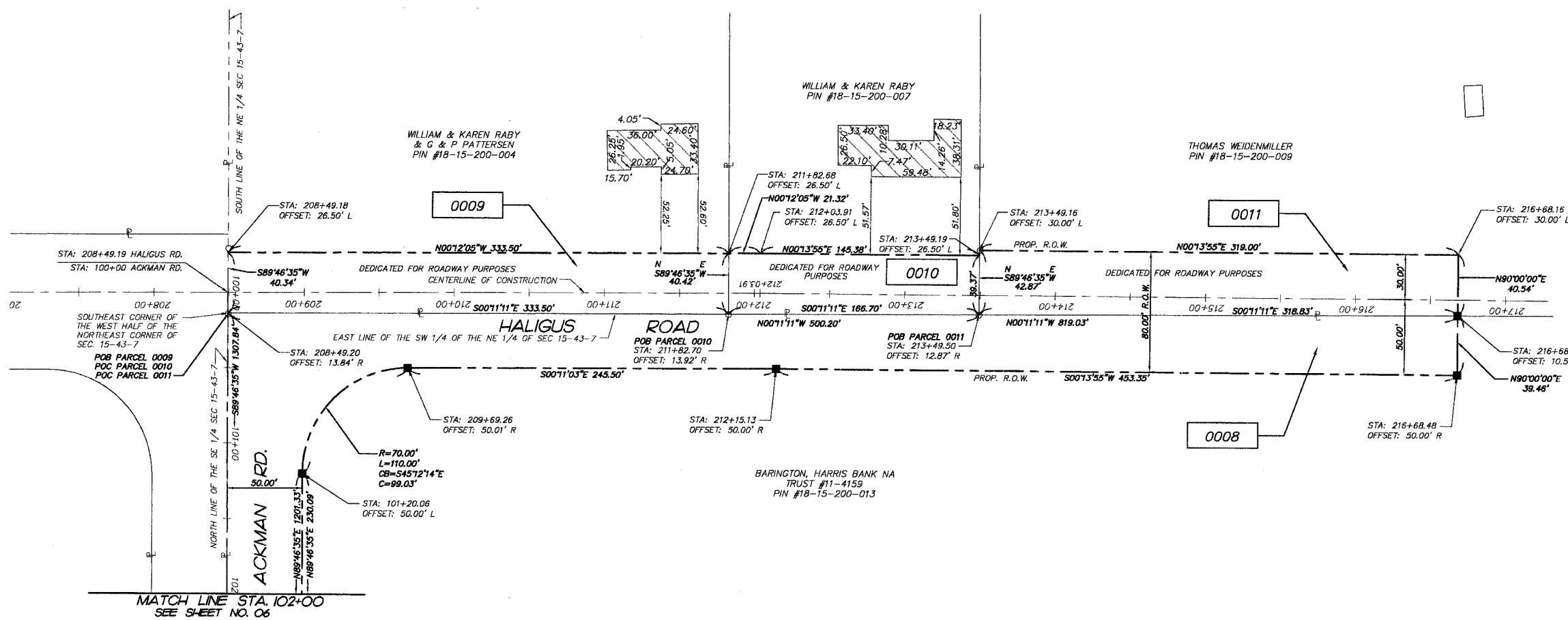
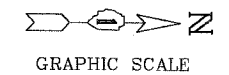


- IRON PIPE OR ROD FOUND
- REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

- ALL BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE 12.
- COMBINED SCALE FACTOR = 0.99993352
- STATE PLANE COORDINATES BASED ON LITH MONUMENT "OUT"

STATE OF ILLINOIS } S.S.  
COUNTY OF McHENRY }  
THIS IS TO CERTIFY THAT I, \_\_\_\_\_ AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 14 & 15 TOWNSHIP 43 N., RANGE 7 E. OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.  
DATED AT McHENRY, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. \_\_\_\_\_



BY	DATE
MADE	
CHECKED	
NOTED	
BOOKED	
INDEXED	

DRAWN BY: MFJ  
CHECKED BY: FH

REVISION DATE:

REVISION:

MADE BY:

RECORDING: RECORDED ON

SHEET 5 OF 13

AS DOCUMENT NO.

**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
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McHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**PLAT OF HIGHWAYS**  
McHENRY COUNTY DIVISION OF TRANSPORTATION  
ROUTE: FAU 3873  
SECTION: 00-00243-00-FP  
PROJECT: ACKMAN ROAD EXTENSION  
JOB NO.: R-55-001-97  
STATION: 208+00 TO STATION: 217+00  
SCALE: 1"=40'

PARCEL NO.	OWNER	TOTAL HOLDING AREA	AREA TAKEN	PREV. DED'D OR USED AREA	REMAINING AREA	EASEMENT AREA	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY:
0008 0008 TE-1 0008 TE-2	BARRINGTON, HARRIS BANK NA TRUST #11-4159	75.116 AC.	2.831 AC.	0.000 AC.	72.285 AC.	0.270 AC. 0.149 AC.	TEMPORARY CONSTRUCTION	18-15-200-013 18-14-100-009	MCH-2004ME-634.0

**PART OF SEC 15 T. 43 N., R. 7 E. OF THE THIRD PRINCIPAL MERIDIAN IN McHENRY COUNTY ILLINOIS.**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	McHENRY	84	10

PROJECT NO. M-8003 (142)  
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1 83840

**LEGEND**

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- MEASUREMENT CONTINUED TO NEXT PAGE
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

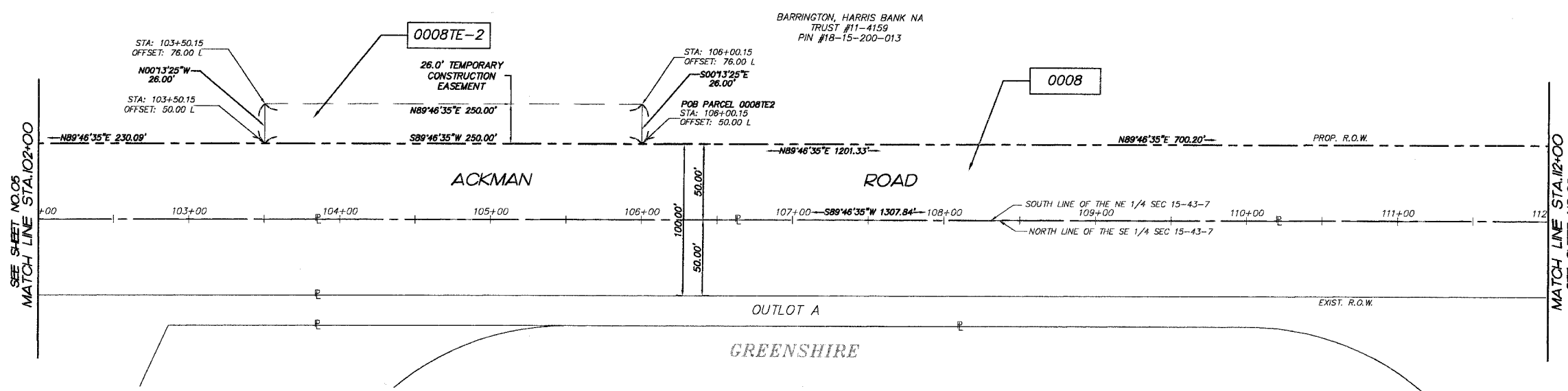
- ALL BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE GRID.
- COMBINED SCALE FACTOR = 0.999993352
- STATE PLANE COORDINATES BASED ON LITH MONUMENT "OUT"

STATE OF ILLINOIS }  
COUNTY OF McHENRY } S.S.

THIS IS TO CERTIFY THAT I, \_\_\_\_\_ AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 14 & 15 TOWNSHIP 43 N., RANGE 7 E. OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT McHENRY, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. \_\_\_\_\_



DRAWN BY: MRJ  
CHECKED BY: EAH

BY	DATE
MADE	
CHECKED	
NOTEBOOK	
NO.	

**SMITH ENGINEERING CONSULTANTS, INC.**  
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4500 PRIME PARKWAY, SUITE 201  
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McHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**PLAT OF HIGHWAYS**  
McHENRY COUNTY DIVISION OF TRANSPORTATION

ROUTE: FAU 3873  
SECTION: 00-00243-00-FP  
PROJECT: ACKMAN ROAD EXTENSION  
JOB NO.: R-55-001-97  
STATION: 102+00 TO STATION: 112+00  
SCALE: 1"=40'

GRAPHIC SCALE  
( IN FEET )  
1 inch = 40 ft.

PARCEL NO.	OWNER	TOTAL HOLDING AREA	AREA TAKEN	PREV. DED'D OR USED AREA	REMAINING AREA	EASEMENT AREA	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY:
0008 0008 TE-1 0008 TE-2	BARRINGTON, HARRIS BANK NA. TRUST #11-4159	75.116 AC.	2.831 AC.	0.000 AC.	72.285 AC.	0.270 AC. 0.149 AC.	TEMPORARY CONSTRUCTION	18-15-200-013 18-14-100-009	MCH-2004ME-634.0
0007	VILLAGE OF LAKEWOOD	33.241 AC.	0.533 AC.	0.000 AC.	32.708 AC.	0.000 AC.		18-14-100-022	MCH-2004ME-633.0

**PART OF SEC 14&15 T. 43 N.,  
R. 7 E. OF THE THIRD  
PRINCIPAL MERIDIAN IN  
McHENRY COUNTY ILLINOIS.**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	McHENRY	84	11

PROJECT NO. M-8003 (142)  
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1  
83840

**LEGEND**

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- MEASUREMENT CONTINUED TO NEXT PAGE
- EXISTING BUILDING

129.32'  
129.32'(COMP)  
129.32'

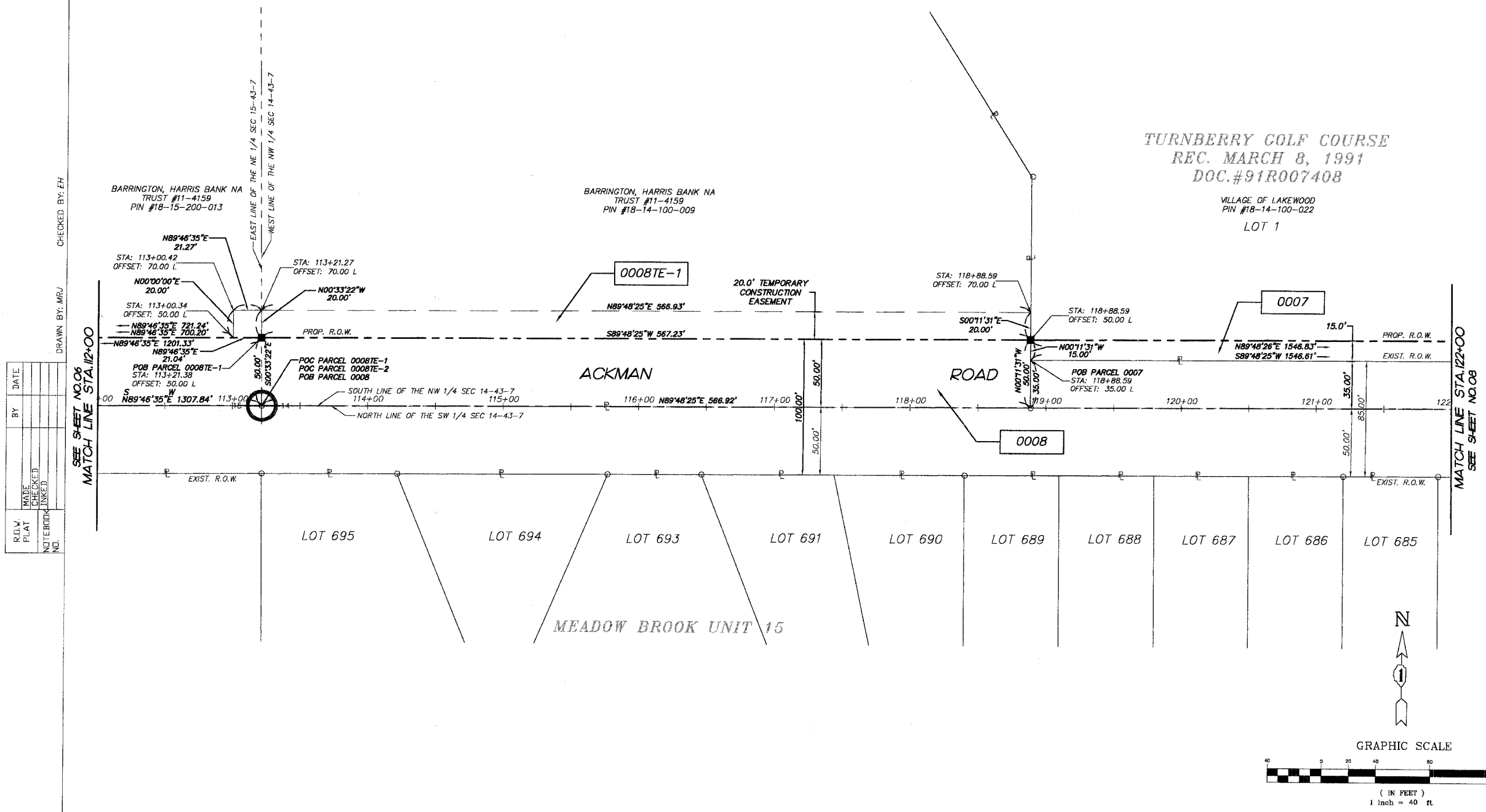
- IRON PIPE OR ROD FOUND
- REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
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- T3
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- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

TURNBERRY GOLF COURSE  
REC. MARCH 8, 1991  
DOC.#91R007408

VILLAGE OF LAKEWOOD  
PIN #18-14-100-022  
LOT 1

- ALL BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE GRID.
- COMBINED SCALE FACTOR = 0.99993352
- STATE PLANE COORDINATES BASED ON LITH MONUMENT "OUT"

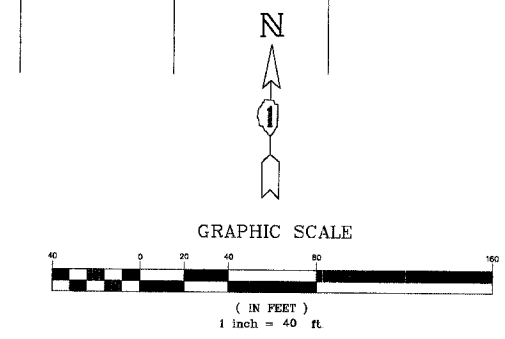
STATE OF ILLINOIS } S.S.  
COUNTY OF McHENRY }  
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DATED AT McHENRY, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ A.D.  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. \_\_\_\_\_



CHECKED BY: EH  
DRAWN BY: MRJ

BY	DATE	REVISION

NOTEBOOK NO. \_\_\_\_\_



**SMITH ENGINEERING CONSULTANTS, INC.**  
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McHENRY SUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**PLAT OF HIGHWAYS**  
McHENRY COUNTY DIVISION OF  
TRANSPORTATION

ROUTE: FAU 3873  
SECTION: 00-00243-00-FP  
PROJECT: ACKMAN ROAD EXTENSION  
JOB NO.: R-55-001-97  
STATION: 122+00 TO STATION: 112+00  
SCALE: 1"=40'

SHEET 7 OF 13  
AS DOCUMENT NO.

REVISION DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ RECORDING: \_\_\_\_\_ RECORDED ON: \_\_\_\_\_ MADE BY: \_\_\_\_\_







F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	McHENRY	84	14
PROJECT NO. M-8003 (142)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1 83840				

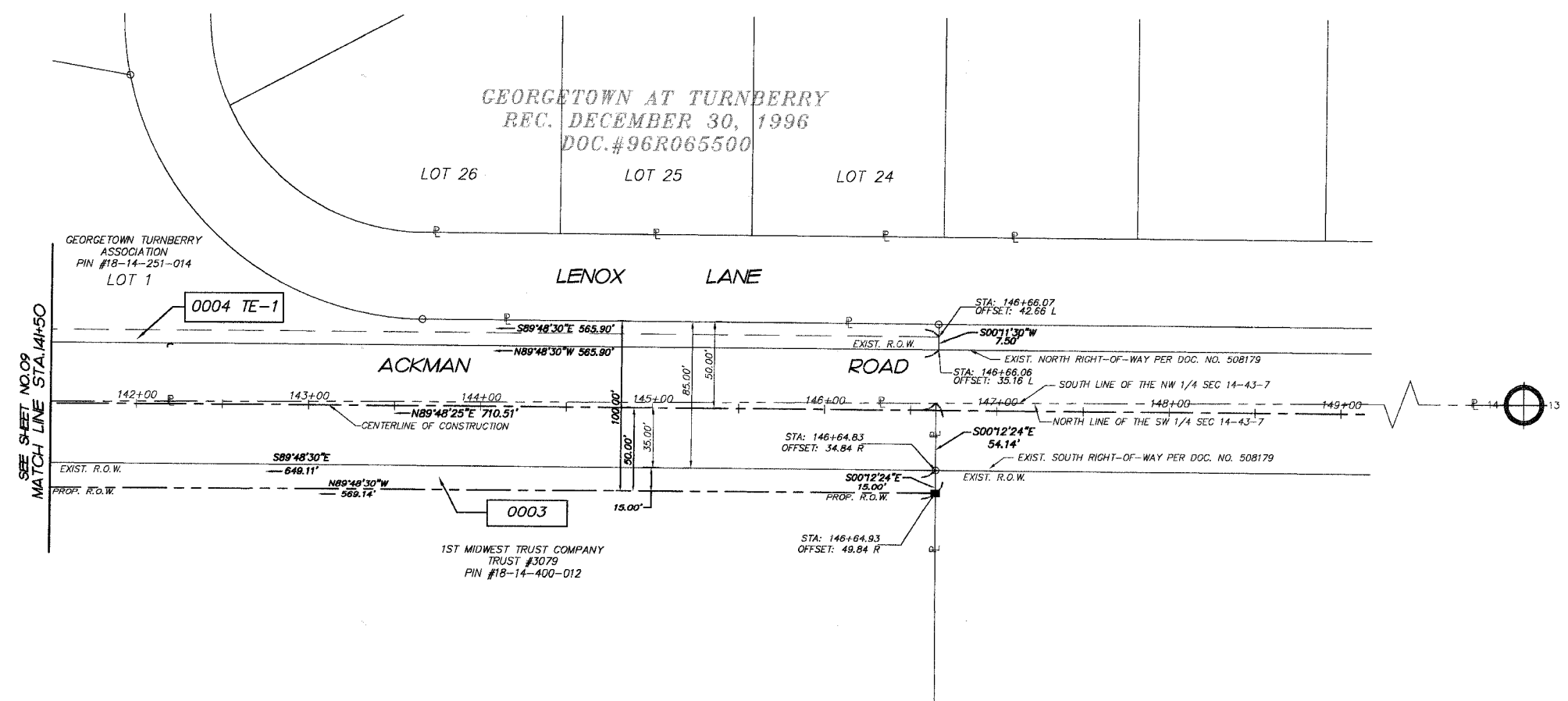
**PART OF SEC 14 T. 43 N., R. 7 E. OF THE THIRD PRINCIPAL MERIDIAN IN McHENRY COUNTY ILLINOIS.**

PARCEL NO.	OWNER	TOTAL HOLDING AREA	AREA TAKEN	PREV. DED'D OR USED AREA	REMAINING AREA	EASEMENT AREA	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY:
0003	1ST MIDWEST TRUST COMPANY TRUST #3079	6.503 AC.	1.491 AC.	1.098 AC.	5.012 AC.	0.000 AC.		18-14-400-012	NOT PROVIDED
0004 0004 TE-1	GEORGETOWN TURNBERRY ASSOC.	1.042 AC.	0.056 AC.	0.000 AC.	0.986 AC.	0.097 AC.	TEMPORARY CONSTRUCTION	18-14-251-014	MCH-2004ME-639.0

**LEGEND**

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
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- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- MEASUREMENT CONTINUED TO NEXT PAGE
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
  - REPLACED AFTER CONSTRUCTION
  - + CUT CROSS FOUND OR SET
  - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - T2
  - T3
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- ALL BEARINGS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE GRID.
  - COMBINED SCALE FACTOR =
  - STATE PLANE COORDINATES BASED ON LITH MONUMENT " "



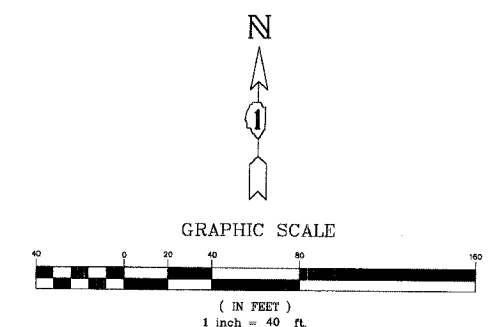
STATE OF ILLINOIS }  
COUNTY OF McHENRY } S.S.

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DATED AT McHENRY ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. \_\_\_\_\_

CHECKED BY: EH  
 DRAWN BY: MRJ  
 R.O.W. PLAT MADE, CHECKED, LINKED, NOTEBOOK NO.



**SMITH ENGINEERING CONSULTANTS, INC.**  
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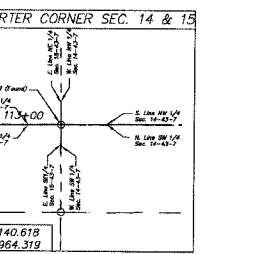
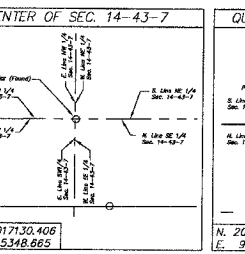
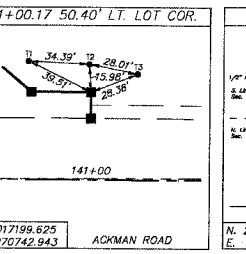
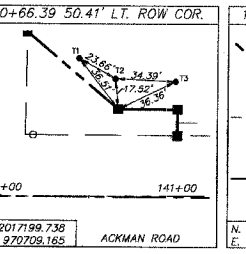
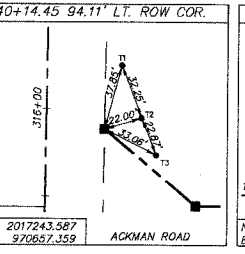
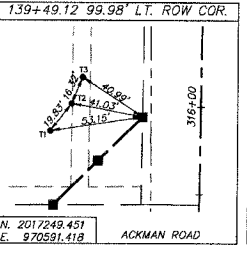
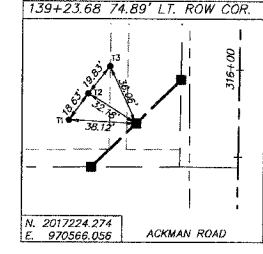
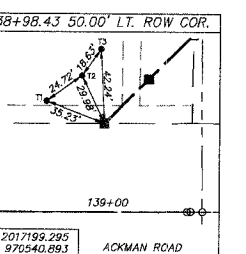
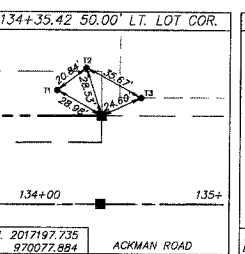
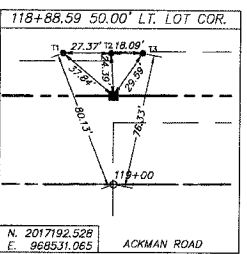
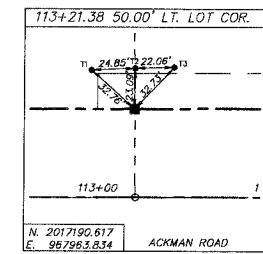
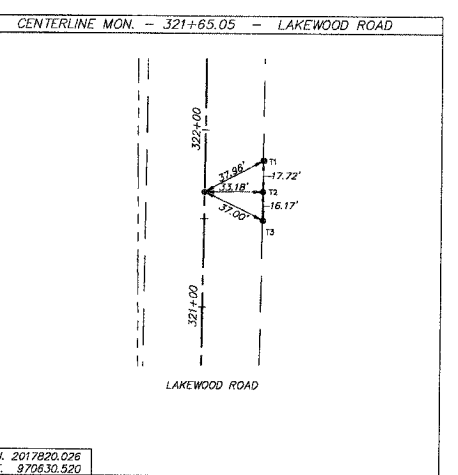
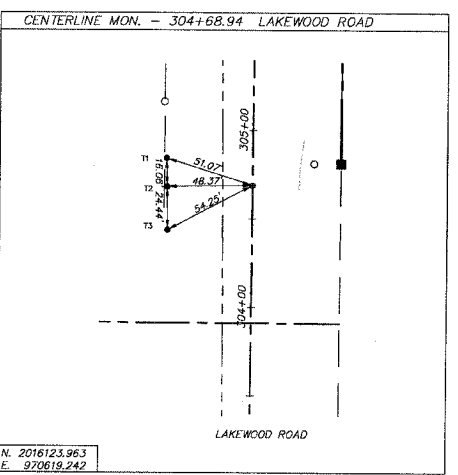
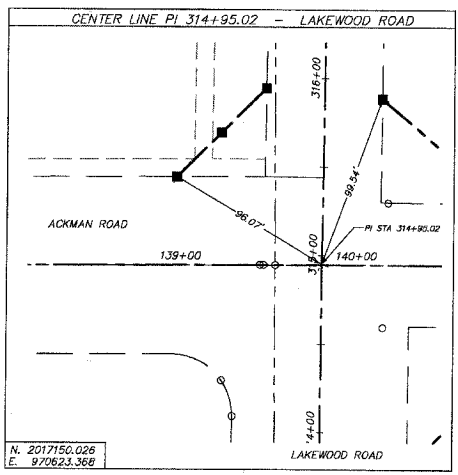
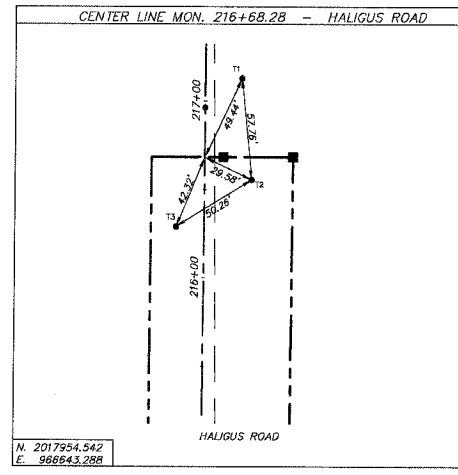
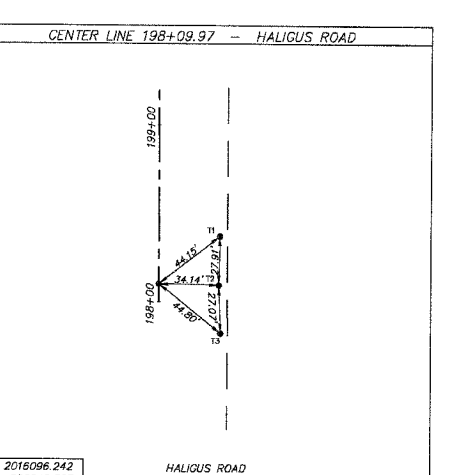
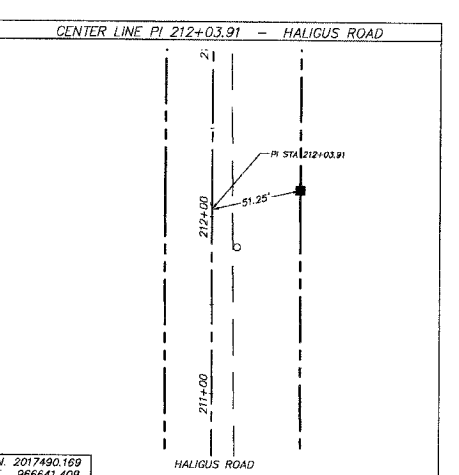
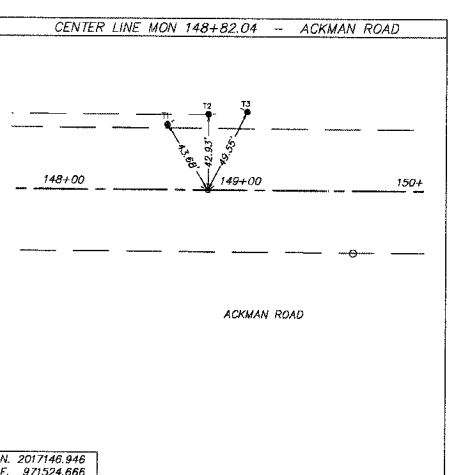
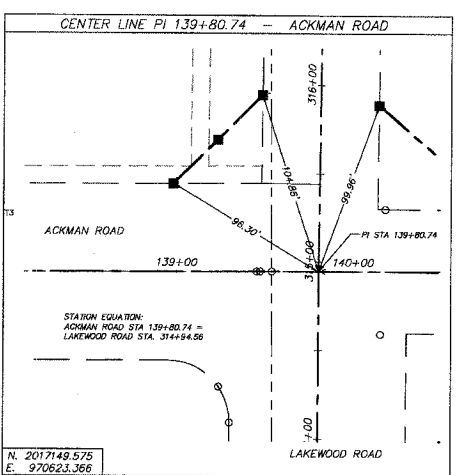
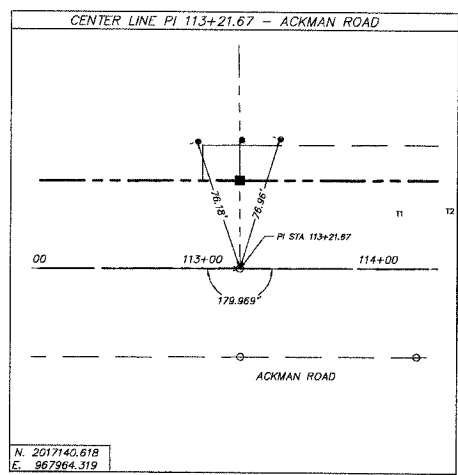
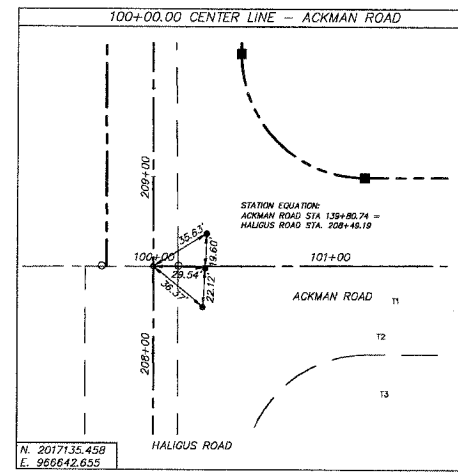
**PLAT OF HIGHWAYS**  
 McHENRY COUNTY DIVISION OF  
 TRANSPORTATION

ROUTE: FAU 3873  
 SECTION: 00-00243-00-FP  
 PROJECT: ACKMAN ROAD EXTENSION  
 JOB NO.: R-55-001-97  
 STATION: 141+50 TO STATION: 149+00  
 SCALE: 1"=40'

**SHEET 10 OF 13**  
 AS DOCUMENT NO.



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	16
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
83840				



REVISIONS	
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PROBE PARKWAY, SUITE 201  
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 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 ALIGNMENT AND TIES

SCALE: DATE 04-16-04 DRAWN BY CJP CHECKED BY TEH

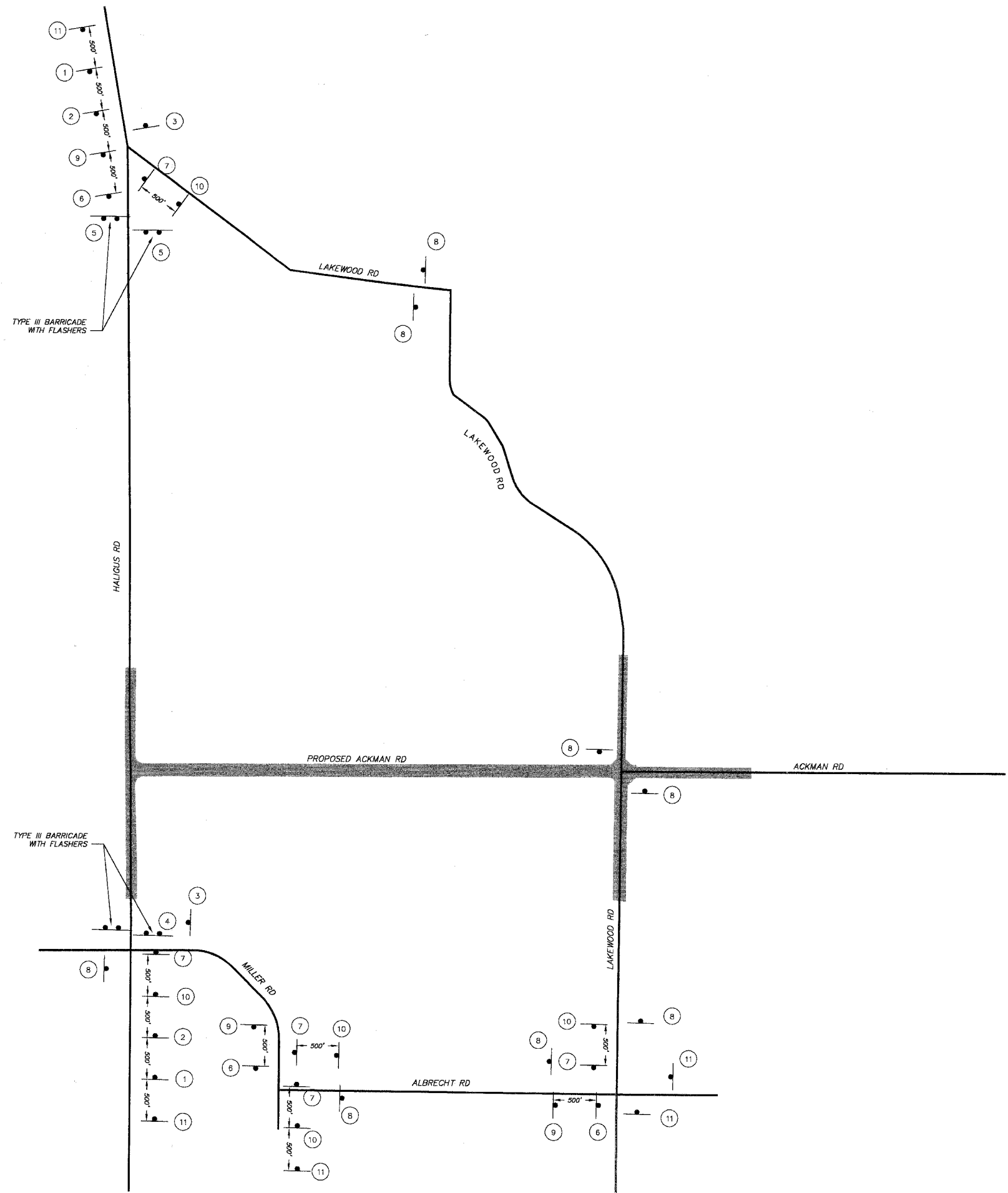
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	17
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
83840				



**ROAD CLOSURE GENERAL NOTES**

1. THE CONTRACTOR WILL BE ALLOWED TO CLOSE HALIGUS ROAD FOR A MAXIMUM OF 35 CONSECUTIVE CALENDAR DAYS TO COMPLETE UP TO THE BINDER COURSE AND OPEN THE ROAD TO THRU TRAFFIC. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. THE DETOUR ROUTE SHALL BE POSTED PRIOR TO CLOSING THE ROAD.
3. ALL TRAFFIC CONTROL WORK ASSOCIATED WITH THE ROAD CLOSURE, SIGNING AND BARRICADING, SHALL BE INCLUDED IN THE PAY ITEM FOR TRAFFIC CONTROL AND PROTECTION FOR DETOUR ROUTE.
4. THE CONTRACTOR SHALL GIVE THE ENGINEER, THE MCHENRY COUNTY DIVISION OF TRANSPORTATION, THE VILLAGE OF LAKE IN THE HILLS AND THE VILLAGE OF LAKEWOOD A 72-HOUR NOTICE PRIOR TO CLOSING THE ROAD.
5. THE 'INFO' SIGN (TAG 11) SHALL BE POSTED BY THE CONTRACTOR 7 DAYS PRIOR TO THE INSTALLATION OF THE DETOUR ROUTE.
6. THE LOCATION OF THE SIGNS SHALL BE MARKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION BY THE CONTRACTOR.



— APPROXIMATE PROJECT LOCATION

**SIGN LEGEND**

1. ROAD CLOSED AHEAD W20-2 (48"x48")	6. HALIGUS RD DETOUR M4-9L (30"x21") WITH STREET NAME
2. DETOUR AHEAD W20-3 (48"x48") WITH STREET NAME	7. HALIGUS RD DETOUR M4-9R (30"x21") WITH STREET NAME
3. END DETOUR M4-Ba (24"x18")	8. HALIGUS RD DETOUR M4-9 (30"x21") WITH STREET NAME
4. ROAD CLOSED TO THRU TRAFFIC R11-4 (60"x30")	9. HALIGUS RD DETOUR M4-9La (30"x21") WITH STREET NAME
5. ROAD CLOSED TO THRU TRAFFIC R11-4 (60"x30")	10. HALIGUS RD DETOUR M4-9Ra (30"x21") WITH STREET NAME
	11. EFFECTIVE DATE HALIGUS RD CLOSED BETWEEN LAKEWOOD RD AND MILLER RD USE LAKEWOOD RD INFO (60"x30")

PLOT FILE STANDARD  
 VIEW OF...  
 COMP. FILE: 0302100hour-Haligus.dwg

REVISIONS	
NAME	DATE

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 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**DETOUR PLAN**  
**FOR HALIGUS RD CLOSURE**

SCALE: NTS DRAWN BY CJP  
 DATE 10-05-2005 CHECKED BY TEH

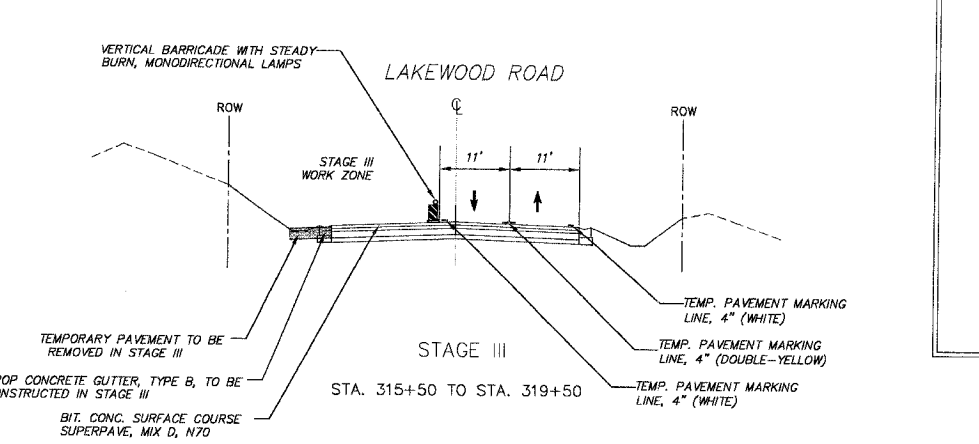
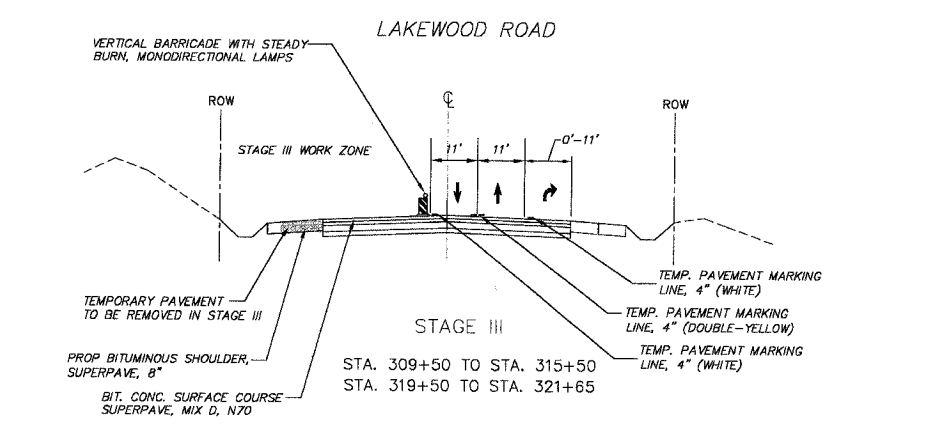
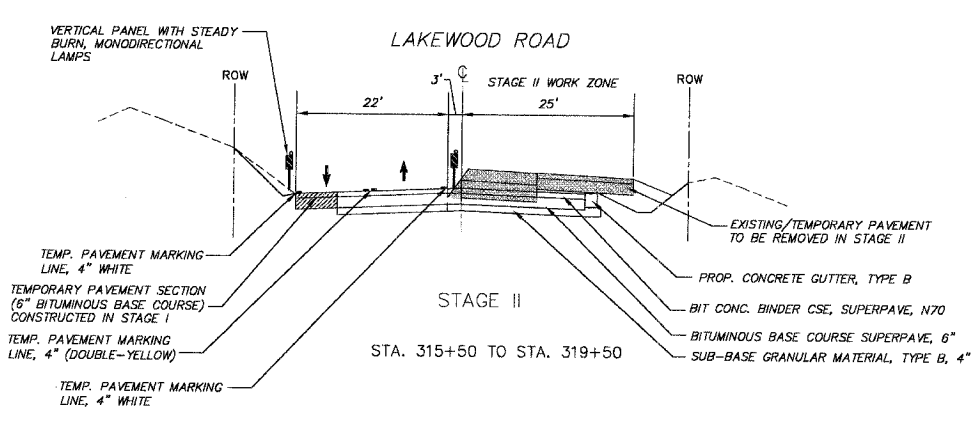
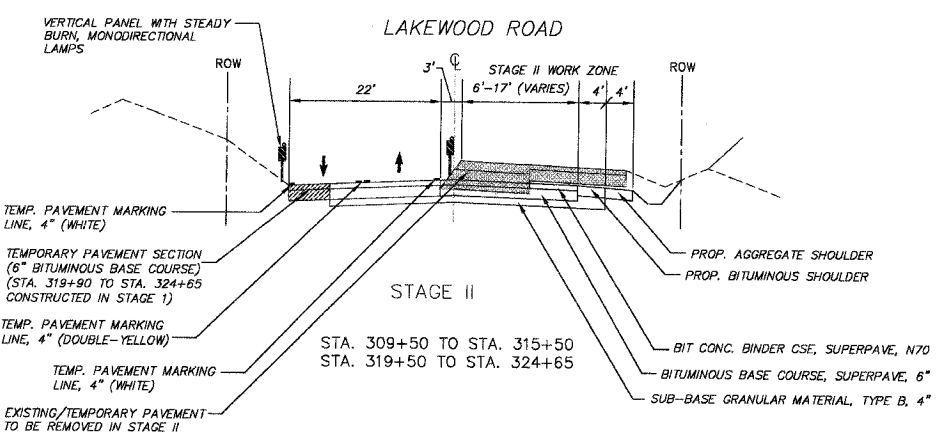
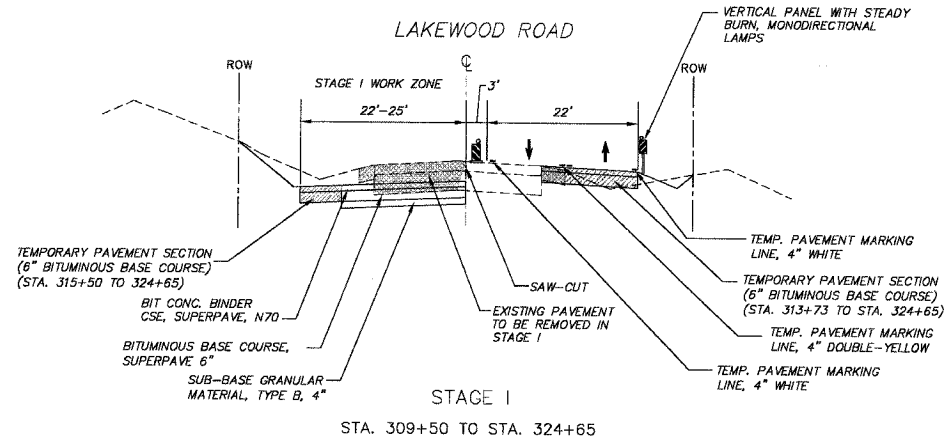
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	18
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
83840				

**GENERAL NOTES**

- All traffic control and protection shall be performed in accordance with the Standard Specifications for Road and Bridge Construction, Section 107.14 and the applicable guidelines in IDOT's "Manual on Uniform Traffic Control Devices For Streets and Highways" and IDOT's "Quality Standard for Work Zone Traffic Control Devices".
- Work scheduled in a stage shall not begin until all existing signs and pavement markings that are in conflict with the traffic pattern for the stage have been removed or covered according to IDOT standards.
- The Contractor shall be responsible for removing all existing, temporary and short term pavement markings which conflict with the next stage or ultimate pavement markings. The removal of any existing pavement markings shall be included in the cost of Traffic Control and Protection. Removal of temporary or short term pavement markings shall be included in the cost of the temporary or short term marking.
- The Contractor shall maintain access to all abutting subdivisions at all times during construction operations.
- A minimum of one 11' lane in each direction shall be provided on Lakewood Road & Ackman Road during each stage of construction.
- All work zone traffic control devices shall be according to IDOT standards and specifications and shall be kept clean and properly oriented in reference to traffic. Any device which has become ineffective due to damage or defacement shall be replaced by the Contractor.
- All damage caused to the proposed, permanent pavement cross-section, as determined by the Engineer, due to the Contractor's operations, shall be repaired by the Contractor at his own expense.
- At the preconstruction conference, the Contractor shall furnish the name of the individual in the Contractor's direct employ who is to be responsible for the installation and maintenance of the traffic control for the project. When actual installation and maintenance are to be accomplished by a subcontractor, the Contractor will not be relieved of furnishing a responsible individual in the Contractor's direct employ.
- This work shall be paid for at contract lump sum price for Traffic Control and Protection.

**SUGGESTED CONSTRUCTION STAGING**

- Lakewood Road**
- Advance work**
- Install all required construction signing according to the Suggested Construction Staging Plan and IDOT standards on all roadways.
  - Install temporary pavement along east side of Lakewood Road from STA. 313+73 to STA. 324+65. Utilize daytime lane closures.
  - Place temporary pavement markings and all traffic control devices according to Stage I of the Suggested Construction Staging Plan and remove all existing conflicting pavement markings.
- STAGE I**
- Traffic**
- Maintain two-way traffic, one 11' (minimum) lane in each direction on east half of Lakewood Road using the existing pavement and temporary pavement.
- Construction**
- Remove existing Lakewood Road pavement, west side and any required material and construct proposed pavement cross section to binder course along the west half of Lakewood Road.
  - Install proposed Ackman Road pavement on the south side from Sta. 140+00 to 141+60.
  - Install proposed bituminous shoulders along the west edge of Lakewood Road from Sta. 304+65 to 314+00.
  - Install temporary pavement along west side of Lakewood Road from Sta. 315+20 to Sta. 324+65 according to Stage 1 of the Suggested Construction Staging Plans.
  - Place temporary pavement markings and all traffic control devices according to Stage II of the Suggested Construction Staging Plans and remove all conflicting pavement markings, signs, and barricades.
- STAGE II**
- Traffic**
- Maintain two-way traffic, one 11' (minimum) lane in each direction on west half of Lakewood Road using the proposed pavement and temporary pavement constructed during Stage I.
- Construction**
- Remove existing Lakewood Road pavement, temporary pavement installed prior to Stage I and any required material and construct proposed pavement cross section to the binder course of asphalt, along the east half of the roadway.
  - Install proposed Concrete Gutter, Type B along east edge of Lakewood Road from approximate Sta. 315+50 to approximate Sta. 319+50.
  - Install proposed bituminous and aggregate shoulders along the east edge of Lakewood Road, to the height of the binder course of asphalt.
  - Place temporary pavement markings and all traffic control devices according to Stage III of the Suggested Construction Staging Plans and remove all conflicting pavement markings.
- STAGE III**
- Traffic**
- Maintain two-way traffic, one 11' (minimum) lane in each direction on east half of Lakewood Road using proposed pavement constructed during Stage II.
- Construction**
- Remove temporary pavement, which was installed during Stage I, and any necessary material along west edge of Lakewood Road.
  - Install proposed Concrete Gutter, Type B along west edge of Lakewood Road from approximate Sta. 315+50 to approximate Sta. 319+50.
  - Install proposed aggregate shoulders along the west edge of Lakewood Road to finish grade elevations.
  - Install surface course of asphalt across entire width of Lakewood Road. This work is to be done according to the IDOT standards with use of flaggers.
  - Install proposed permanent pavement markings across entire width of Lakewood Road.
- NOTE:** The installation of the surface course and the permanent pavement markings is to be coordinated by the Contractor with work on similar pay items throughout the entire job.



**SYMBOL LEGEND**

	DIRECTION OF TRAFFIC FLOW
	TYPE III BARRICADE WITH 2 FLASHING LIGHTS
	TEMPORARY AGGREGATE
	WORK ZONE
	TEMPORARY PAVEMENT
	MATERIAL REMOVAL BY STAGE
	VERTICAL BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS (25' CENTER-TO-CENTER)
	VERTICAL PANEL WITH STEADY BURN, MONODIRECTIONAL LAMPS
	STEADY BURNING AMBER BEACON

**REVISIONS**

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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4650 PINE PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
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 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**SUGGESTED CONSTRUCTION STAGING FOR LAKEWOOD ROAD**

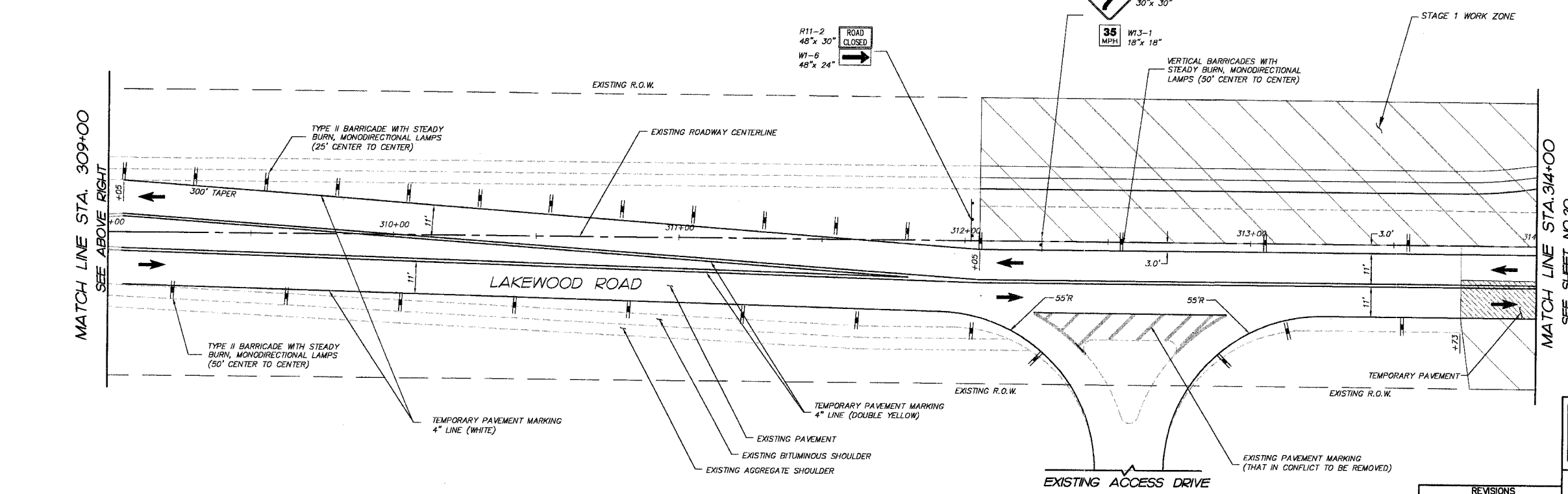
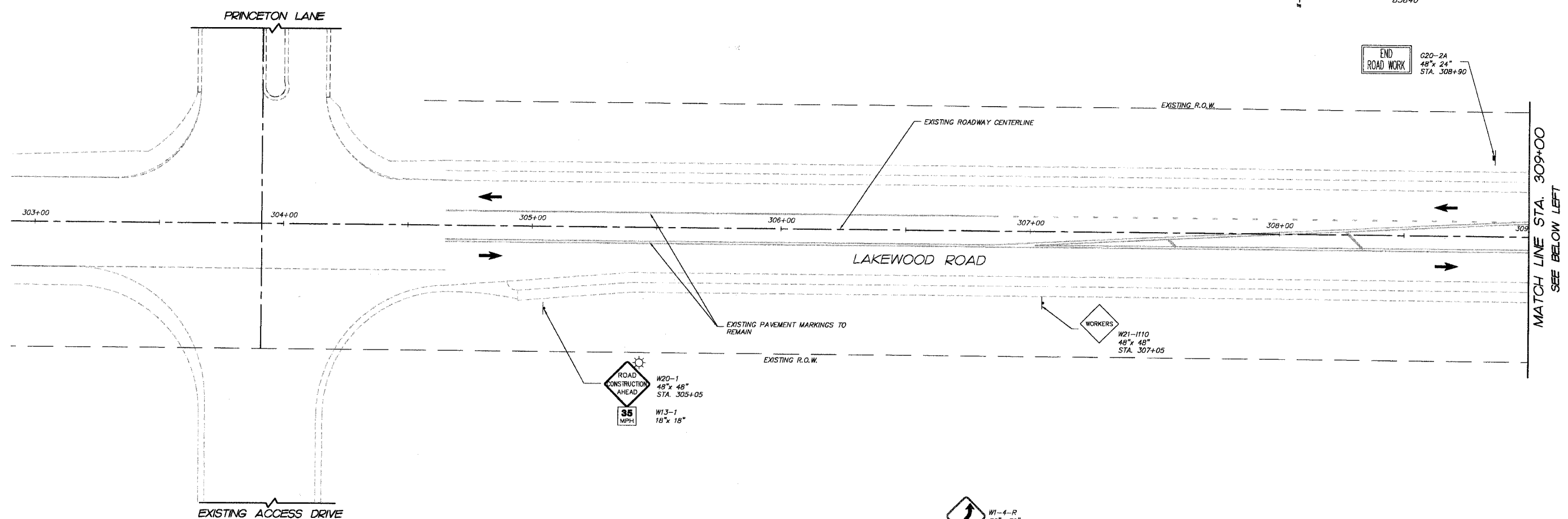
**TYPICAL SECTIONS**

SCALE: N/A DRAWN BY: CJP  
 DATE: 10-05-2005 CHECKED BY: TEH

PLOT FILE: STANDARD  
 VEK: Lakewood Plotting CE-18  
 CEMP: FILE: 030210-618.dwg



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	19
STA. 303+00	TO STA. 314+00	ILLINOIS HIGHWAY PROJECT		
FED. ROAD DIST. NO. 1		83840		



	DIRECTION OF TRAFFIC FLOW
	TYPE III BARRICADE WITH 2 FLASHING LIGHTS
	TEMPORARY PAVEMENT
	TEMPORARY ACCESS
	STAGE 1 WORK ZONE
	TEMPORARY SIGNAGE (SEE PLAN FOR TYPE, SIZE AND LOCATION)
	TYPE II BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS
	VERTICAL PANEL WITH STEADY BURN, MONODIRECTIONAL LAMPS
	DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS (25' CENTER TO CENTER)
	STEADY BURNING AMBER BEACON

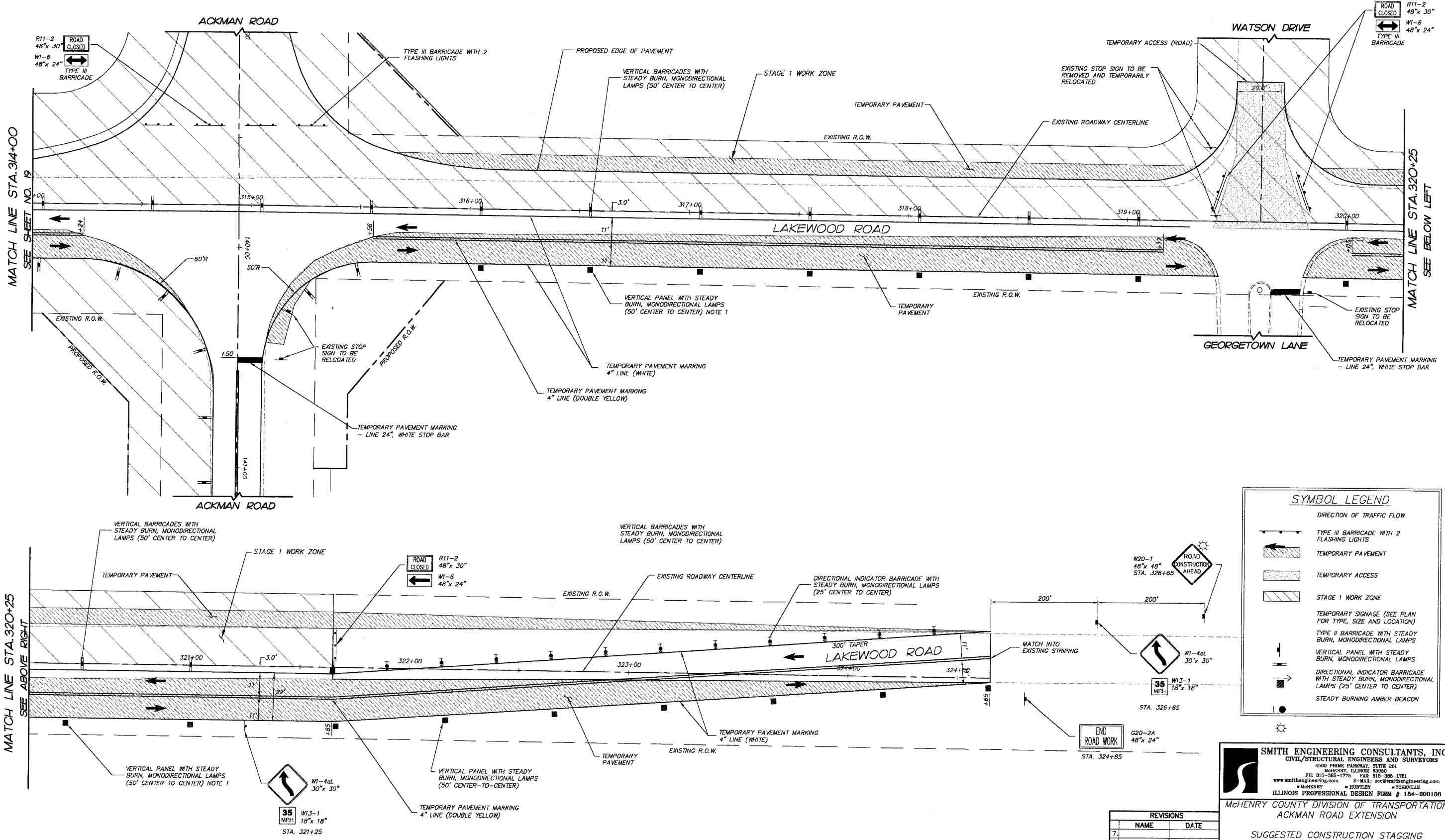
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-955-1775 FAX: 815-955-1781  
 WWW.SMITHENGINEERING.COM E-MAIL: see@smitheng.com  
 \*MCHENRY \*ROSELLE \*YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

McHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 SUGGESTED CONSTRUCTION STAGGING FOR LAKEWOOD ROAD  
 STAGE I  
 SCALE: 1"=20'  
 DATE 10-05-2005  
 DRAWN BY DCJ  
 CHECKED BY CP

PLOT FILE STANDARD  
 VIEW STAGE 1A CE-19  
 COMP. FILE: 030210-61R1-1.dwg

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	20
STA. 314+00	TO STA.	324+50		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT 83840		



**SYMBOL LEGEND**

- DIRECTION OF TRAFFIC FLOW
- TYPE III BARRICADE WITH 2 FLASHING LIGHTS
- TEMPORARY PAVEMENT
- TEMPORARY ACCESS
- STAGE 1 WORK ZONE
- TEMPORARY SIGNAGE (SEE PLAN FOR TYPE, SIZE AND LOCATION)
- TYPE II BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS
- VERTICAL PANEL WITH STEADY BURN, MONODIRECTIONAL LAMPS
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS (25' CENTER TO CENTER)
- STEADY BURNING AMBER BEACON

PLOT FILE STANDARD  
 NEW STAGE IB CS-20  
 COMP. FILE: 032070-01B-1.dwg

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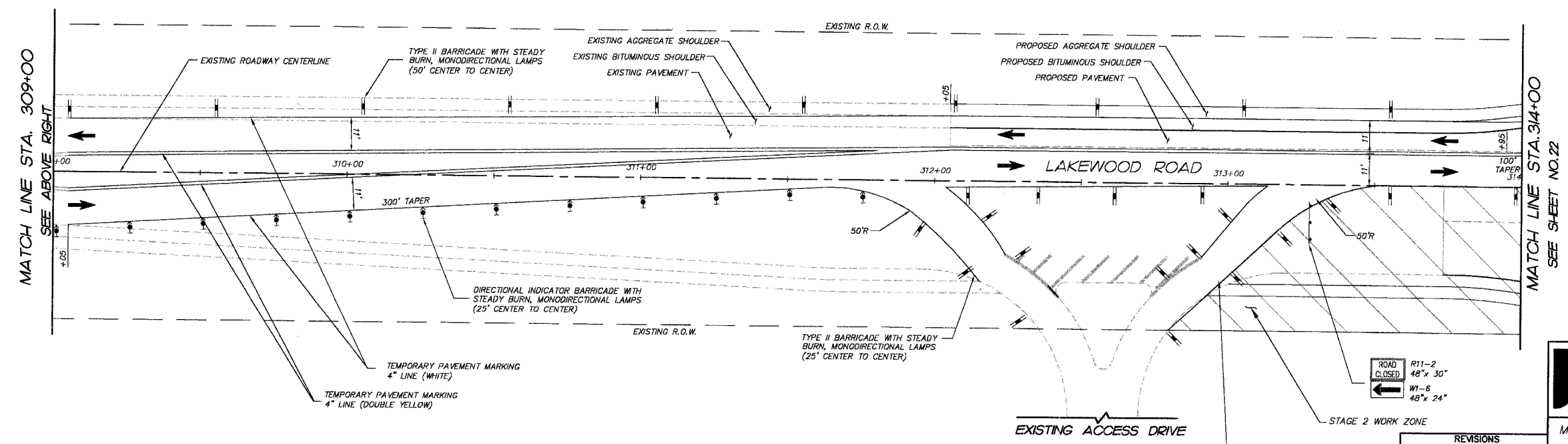
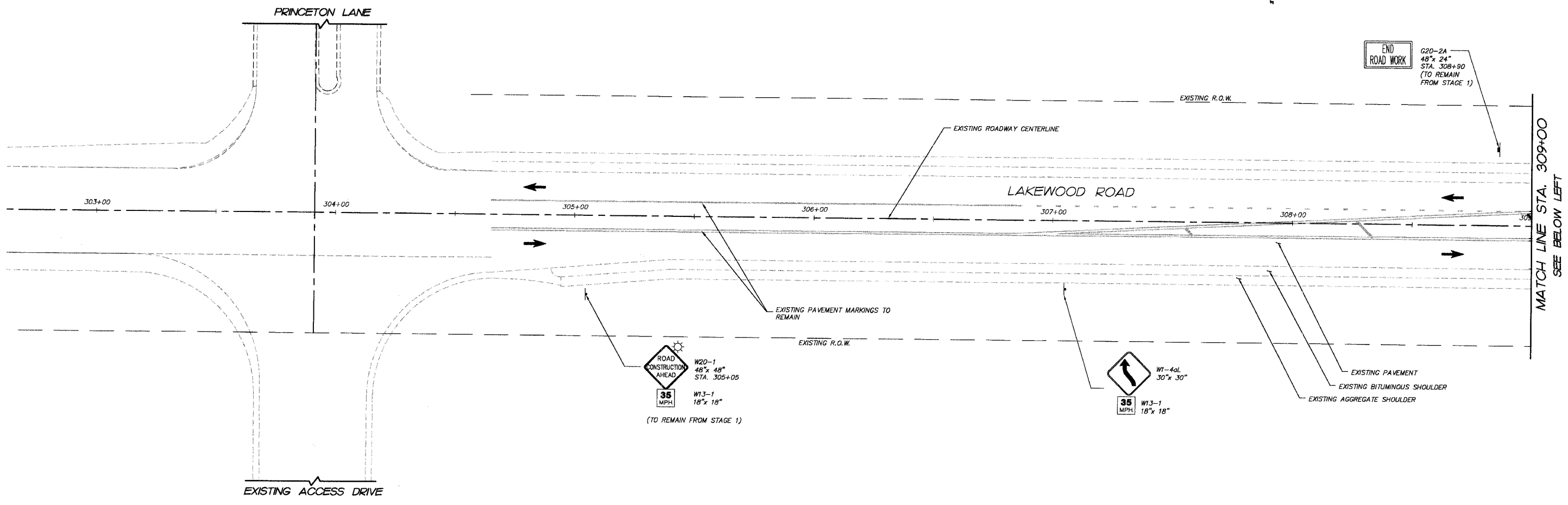
**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**SUGGESTED CONSTRUCTION STAGGING FOR LAKEWOOD ROAD STAGE 1**

SCALE: 1"=20'  
 DATE 10-05-2005

DRAWN BY DCJ  
 CHECKED BY GFR

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	21
STA. 303+00	TO STA. 314+00			
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
83840				



	DIRECTION OF TRAFFIC FLOW
	TYPE III BARRICADE WITH 2 FLASHING LIGHTS
	TEMPORARY PAVEMENT
	TEMPORARY ACCESS
	STAGE 2 WORK ZONE
	TEMPORARY SIGNAGE (SEE PLAN FOR TYPE, SIZE AND LOCATION)
	TYPE II BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS
	VERTICAL PANEL WITH STEADY BURN, MONODIRECTIONAL LAMPS
	DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS (25' CENTER TO CENTER)
	STEADY BURNING AMBER BEACON

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 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

McHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION

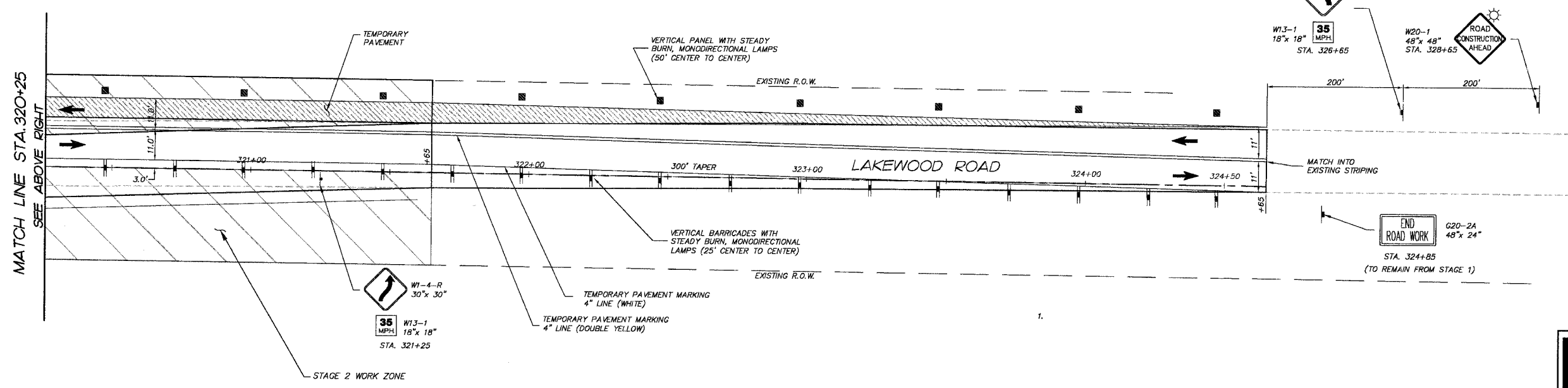
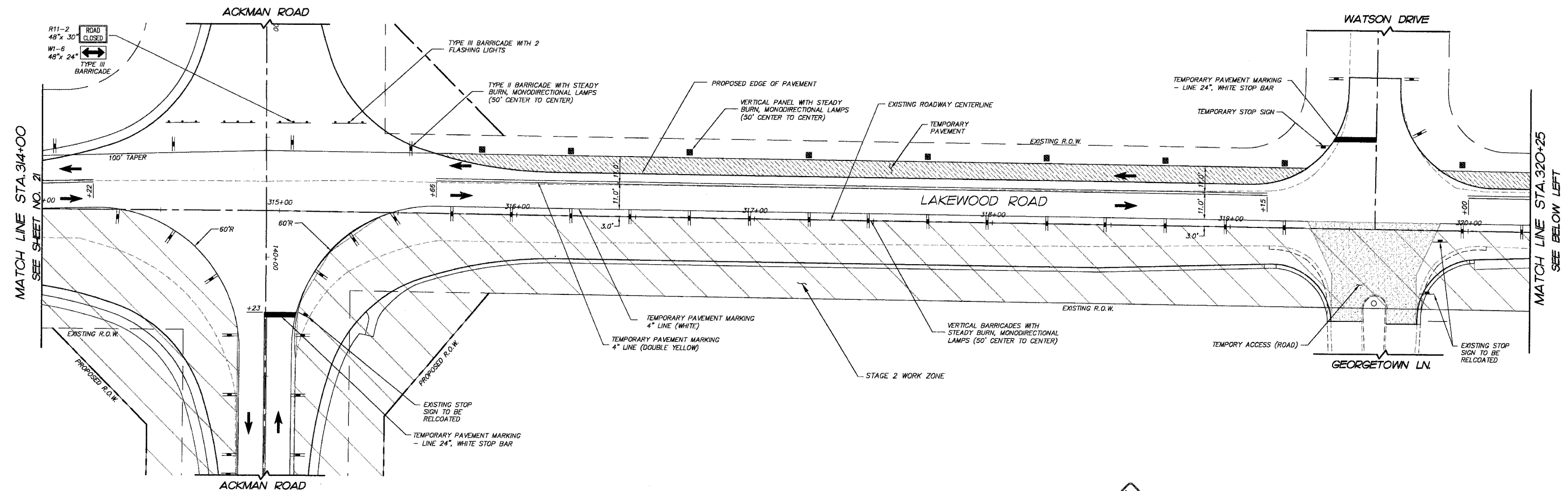
SUGGESTED CONSTRUCTION STAGING  
 FOR LAKEWOOD ROAD  
 STAGE 2

SCALE: 1"=20'  
 DATE 10-05-2005

DRAWN BY DCJ  
 CHECKED BY CP

PLOT FILE: STANDARD  
 VIEW: STAGE 1A 05-21  
 COMP. FILE: 03070-01A-1.dwg

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	22
STA.	314+00	TO STA.	324+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT		83840	



SYMBOL LEGEND	
	DIRECTION OF TRAFFIC FLOW
	TYPE III BARRICADE WITH 2 FLASHING LIGHTS
	TEMPORARY PAVEMENT
	TEMPORARY ACCESS
	STAGE 2 WORK ZONE
	TEMPORARY SIGNAGE (SEE PLAN FOR TYPE, SIZE AND LOCATION)
	TYPE II BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS
	VERTICAL PANEL WITH STEADY BURN, MONODIRECTIONAL LAMPS
	DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS (25' CENTER TO CENTER)
	STEADY BURNING AMBER BEACON

REVISIONS		
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 www.smithengineering.com E-MAIL: se@smithengineering.com

ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION

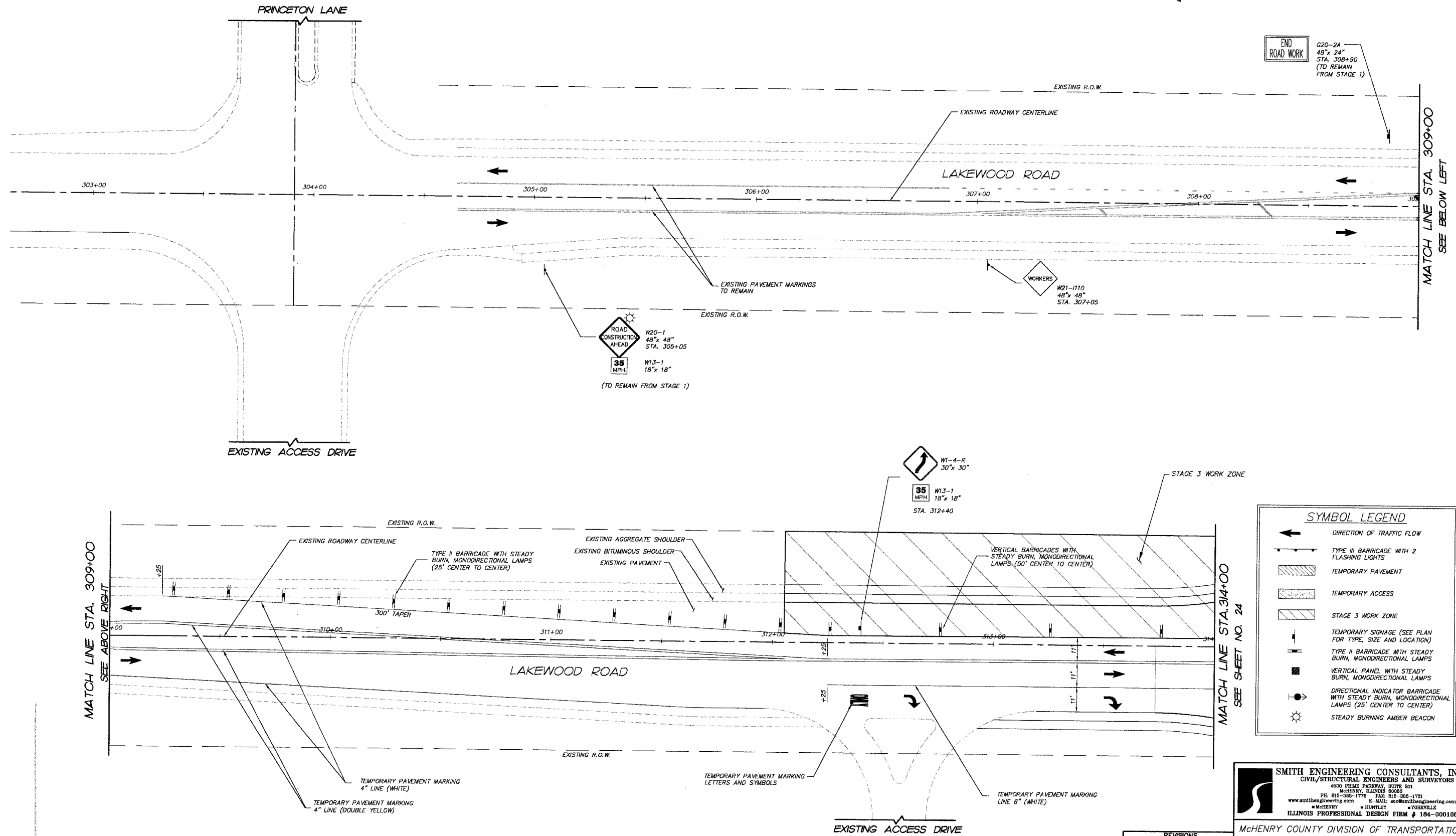
SUGGESTED CONSTRUCTION STAGING  
 FOR LAKEWOOD ROAD  
 STAGE 2

SCALE: 1"=20'  
 DATE 10-05-2005

DRAWN BY DCJ  
 CHECKED BY GFR

PLOT FILE: STANDARD 22  
 COMP. FILE: 081010-318-1.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	23
STA. 303+00		TO STA. 314+00		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		



END ROAD WORK  
G20-2A  
48" x 24"  
STA. 308+90  
(TO REMAIN FROM STAGE 1)

ROAD CONSTRUCTION AHEAD  
35 MPH  
W20-1  
48" x 48"  
STA. 305+05  
W13-1  
18" x 18"  
(TO REMAIN FROM STAGE 1)

WORKERS  
W21-1110  
48" x 48"  
STA. 307+05  
W1-4-R  
30" x 30"  
W13-1  
18" x 18"  
STA. 312+40

SYMBOL LEGEND	
	DIRECTION OF TRAFFIC FLOW
	TYPE II BARRICADE WITH 2 FLASHING LIGHTS
	TEMPORARY PAVEMENT
	TEMPORARY ACCESS
	STAGE 3 WORK ZONE
	TEMPORARY SIGNAGE (SEE PLAN FOR TYPE, SIZE AND LOCATION)
	TYPE II BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS
	VERTICAL PANEL WITH STEADY BURN, MONODIRECTIONAL LAMPS
	DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS (25' CENTER TO CENTER)
	STEADY BURNING AMBER BEACON

MATCH LINE STA. 309+00  
SEE ABOVE RIGHT

MATCH LINE STA. 314+00  
SEE SHEET NO. 24

REVISIONS	
NO.	DATE
7.	
6.	
5.	
4.	
3.	
2.	
1.	

**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-385-1778 FAX: 815-385-1781  
www.smithengineering.com E-MAIL: eoc@smithengineering.com  
MCHENRY HUNTLEY FOSTKILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

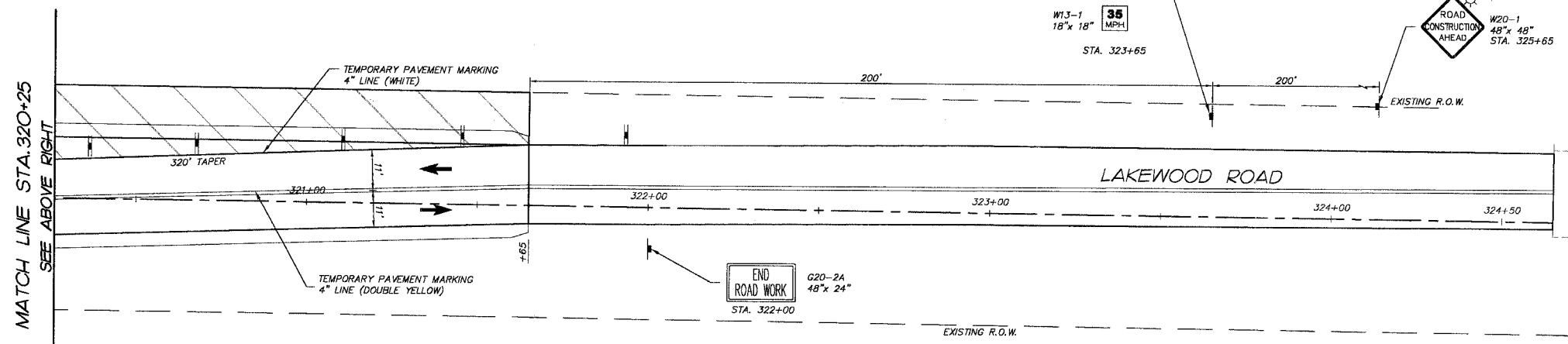
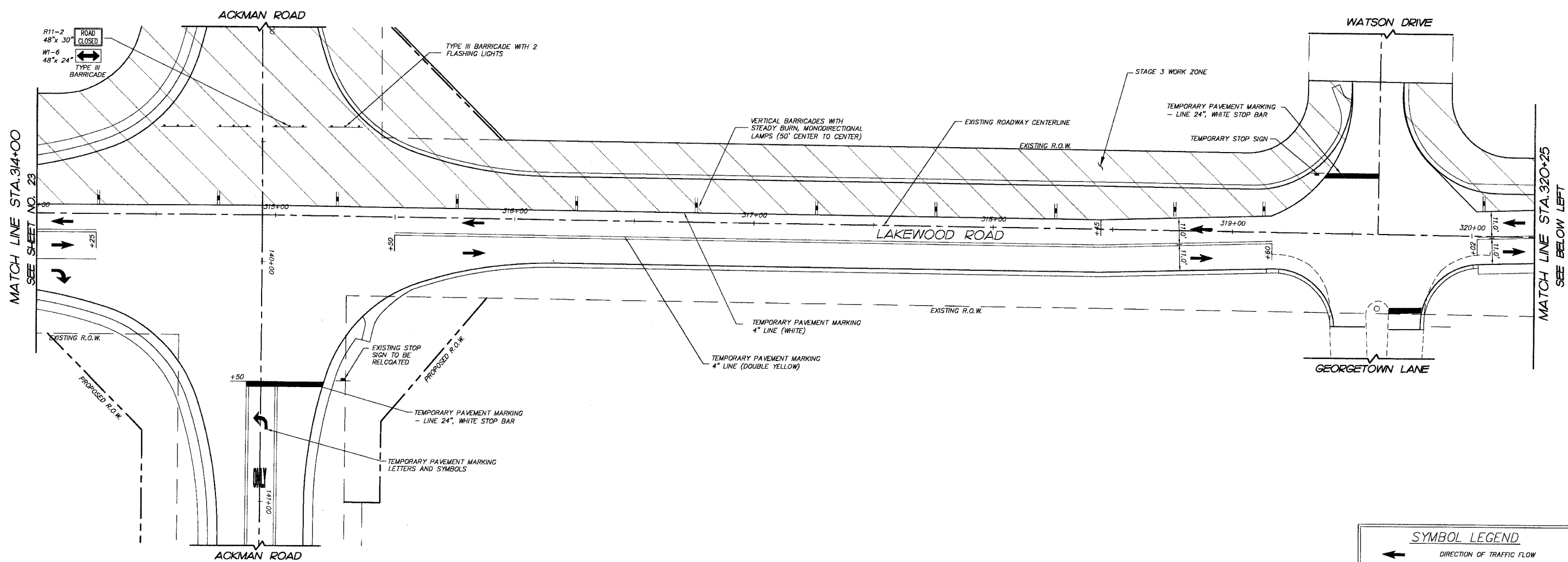
McHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

SUGGESTED CONSTRUCTION STAGING  
FOR LAKEWOOD ROAD  
STAGE 3

SCALE: 1"=20'  
DATE: 10-05-2005  
DRAWN BY: DCJ  
CHECKED BY: CP

PLT FILE: STAMPED  
REV: STAGE 3  
COMP: FILE: 030210-818-1.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	24
STA.	314+00	TO STA.	324+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT		83840	



SYMBOL LEGEND	
	DIRECTION OF TRAFFIC FLOW
	TYPE III BARRICADE WITH 2 FLASHING LIGHTS
	TEMPORARY PAVEMENT
	TEMPORARY ACCESS
	STAGE 3 WORK ZONE
	TEMPORARY SIGNAGE (SEE PLAN FOR TYPE, SIZE AND LOCATION)
	TYPE II BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS
	VERTICAL PANEL WITH STEADY BURN, MONODIRECTIONAL LAMPS
	DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN, MONODIRECTIONAL LAMPS (25' CENTER TO CENTER)
	STEADY BURNING AMBER BEACON

REVISIONS	
NO.	DATE
7.	
6.	
5.	
4.	
3.	
2.	
1.	

**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4600 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60059  
 P.E. 015-385-1778 FAX: 815-385-1781  
 www.smithengineering.com E-Mail: sec@smithengineering.com  
 MCHENRY HUNTERVILLE YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION

SUGGESTED CONSTRUCTION STAGING  
 FOR LAKEWOOD ROAD  
 STAGE 3

SCALE: 1"=20'  
 DATE 10-05-2005  
 DRAWN BY MRJ  
 CHECKED BY GFR

PLOT FILE: STANDARD  
 VIEW: STAGE III CE-24  
 COMP. FILE: 03210-618-1.dwg

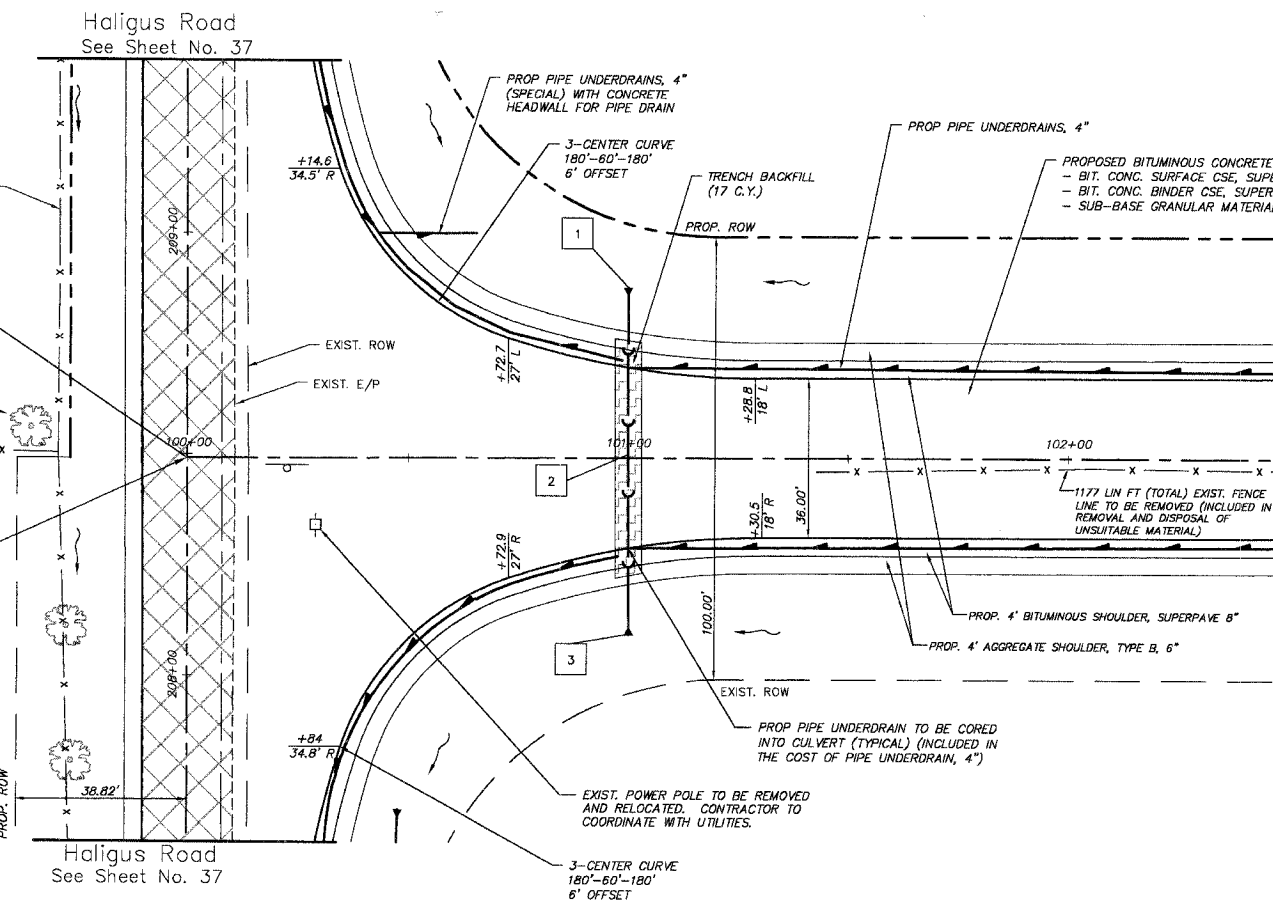
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	25
STA. 100+00 TO STA. 102+50				
FED. ROAD DIST. NO. 83840		ILLINOIS HIGHWAY PROJECT		



LIMITS OF BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 13" ON HALIGUS ROAD IS STA 207+22 TO STA. 209+72. OUTSIDE OF THOSE LIMITS, BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 10" SHALL BE CONSTRUCTED.

STA. EQUATION  
 STA. 100+00 (ACKMAN) =  
 STA. 208+49.19 (LAKEWOOD)

BEGIN ACKMAN ROAD IMPROVEMENTS STA. 100+00.00

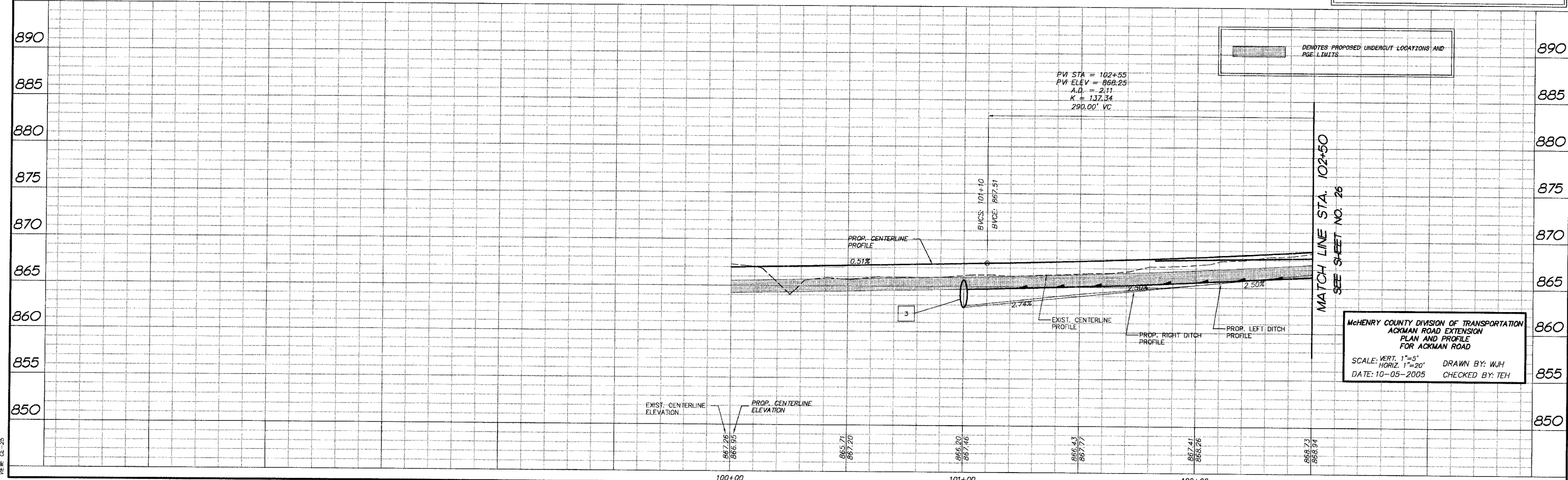


#	STORM SEWER TAGS
1	PRC FES EL EQRS 36" W/GRATE STA. 101+00, 38' LT INV = 862.88
2	60 LIN FT PIPE CULV CL A 1 EQRS 36" Ø 0.21%
3	PRC FES EL EQRS 36" W/GRATE STA. 101+00, 30' RT INV = 862.72

PROJECT LEGEND:	
	DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
	DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
	DENOTES AREA OF TRENCH BACKFILL
	DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
	DENOTES PROPOSED DRAINAGE DIRECTION ARROW
	DENOTES PROPOSED OVERFLOW DIRECTION ARROW
	DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
	DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

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

Ackman Road



MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 PLAN AND PROFILE  
 FOR ACKMAN ROAD  
 SCALE: VERT. 1"=5'  
 HORIZ. 1"=20' DRAWN BY: WJH  
 DATE: 10-05-2005 CHECKED BY: TEH

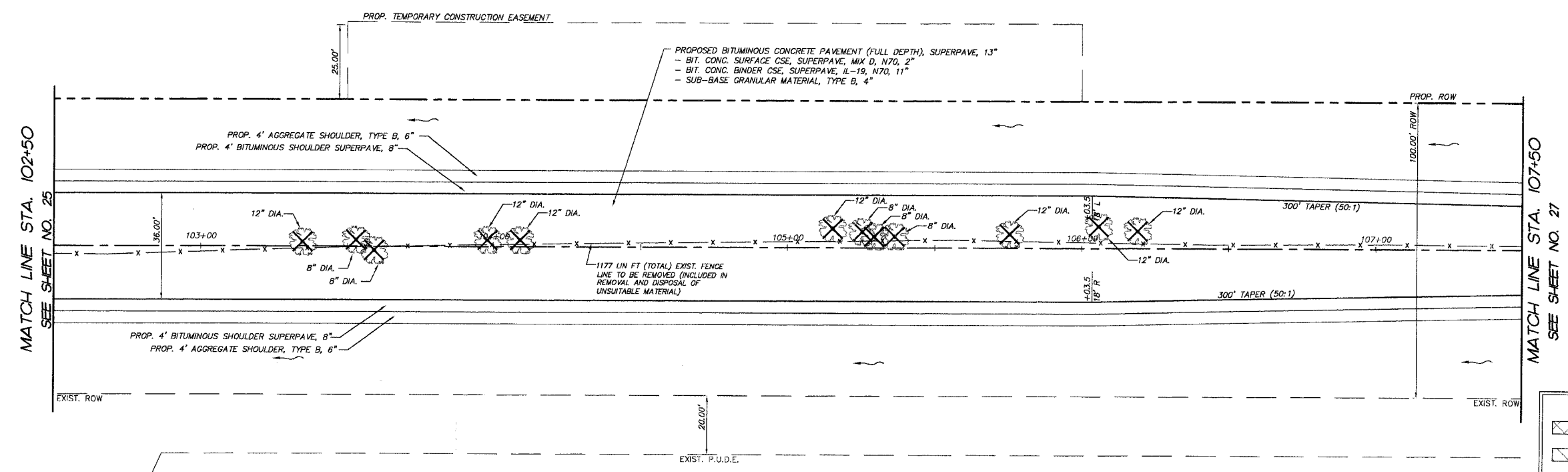
COMP. FILE: 030210-602A.dwg  
 USER: CE-25



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	26
STA. 102+50		TO STA. 107+50		
FED. ROAD DIST. NO.		ILLINOIS	HIGHWAY PROJECT	

83840

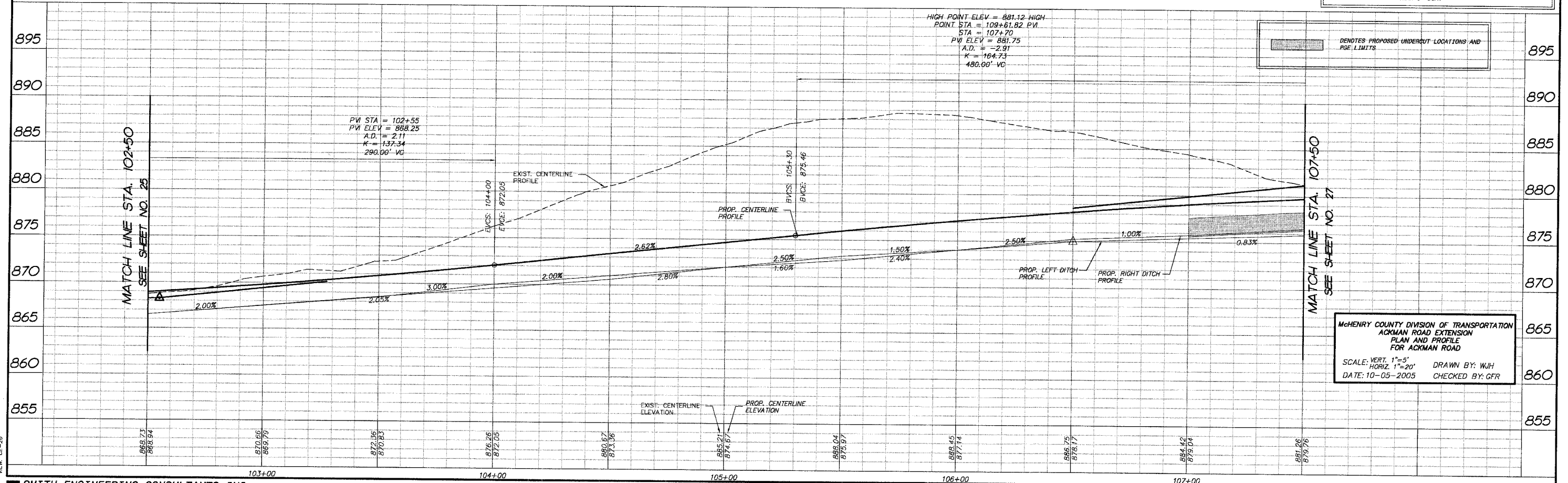
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



**PROJECT LEGEND:**

- DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
- DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2\"/>
- DENOTES AREA OF TRENCH BACKFILL
- DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW
- DENOTES PROPOSED OVERFLOW DIRECTION ARROW
- DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6\"/>
- DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6\"/>

Ackman Road



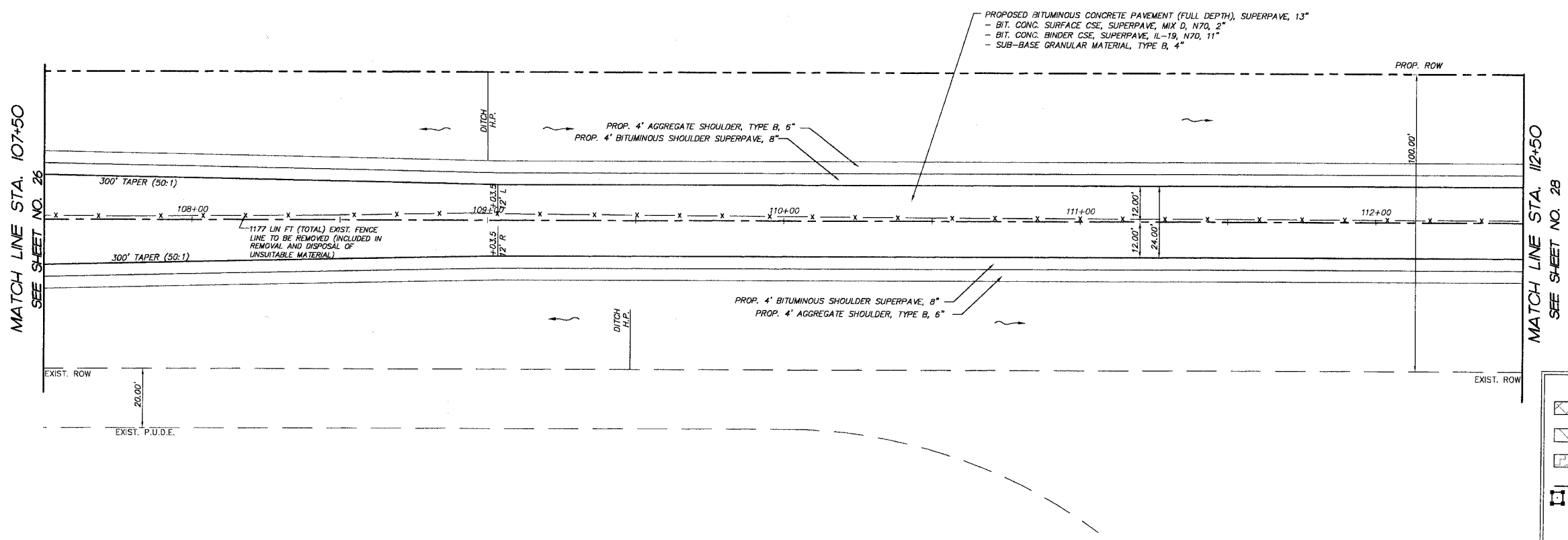
MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 PLAN AND PROFILE  
 FOR ACKMAN ROAD  
 SCALE: VERT. 1"=5'  
 HORIZ. 1"=20'  
 DATE: 10-05-2005  
 DRAWN BY: WJH  
 CHECKED BY: GFR

COMP. FILE: 030210-802A.dwg  
 DATE: 10-05-2005  
 DRAWN BY: WJH  
 CHECKED BY: GFR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	27
STA. 107+50		TO STA. 112+50		
FED. ROAD DIST. NO.		ILLINOIS HIGHWAY PROJECT		83840



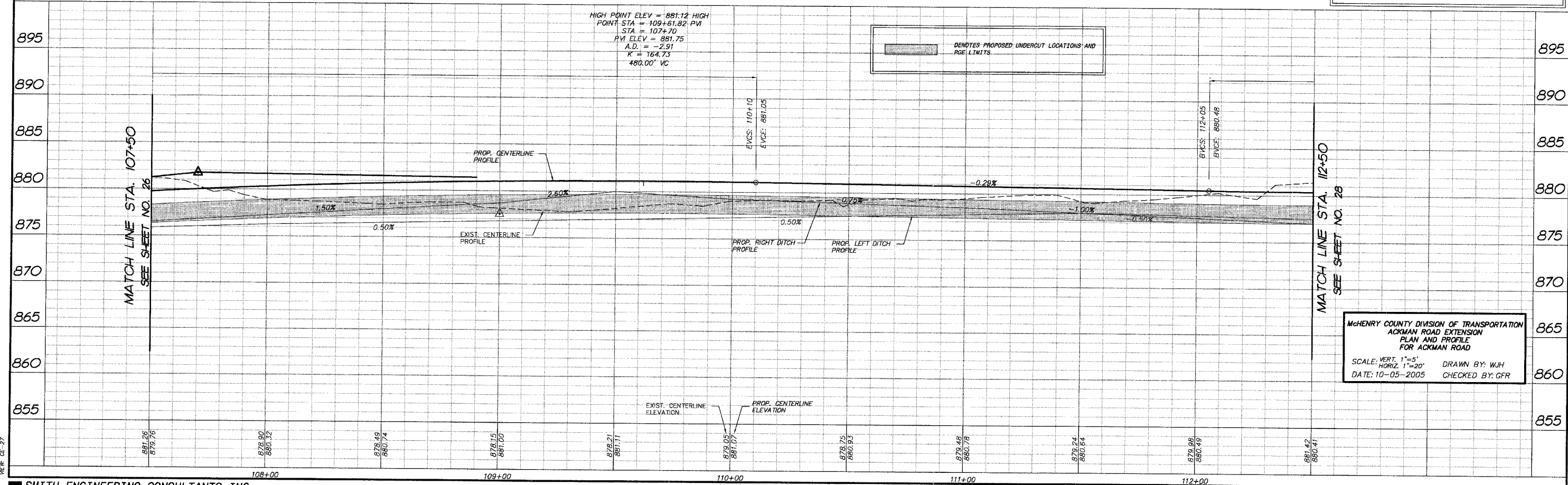
FINAL SURVEY PLOTTED	BY	DATE
NO.		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
AREAS CHECKED		



**PROJECT LEGEND:**

- DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
- DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2\"/>

Ackman Road



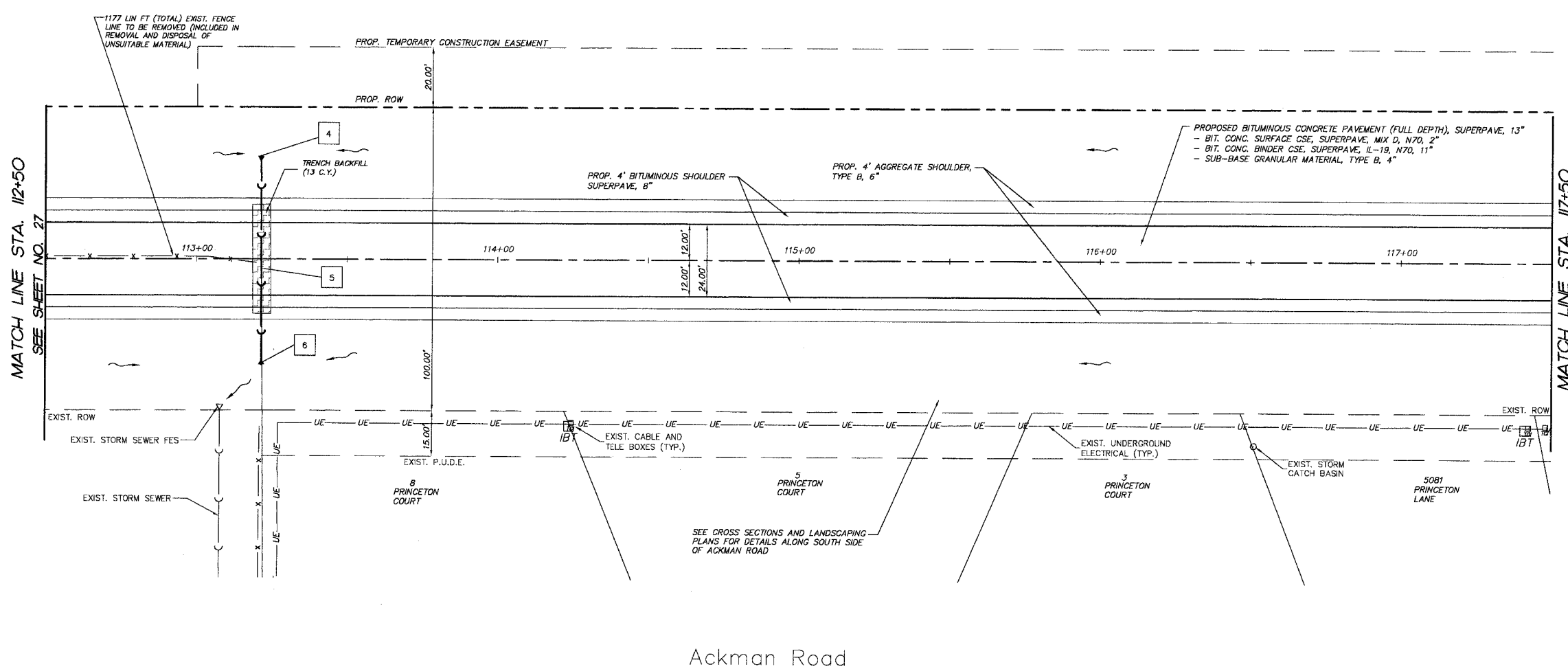
MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 PLAN AND PROFILE  
 FOR ACKMAN ROAD  
 SCALE: VERT. 1"=5'  
 HORIZ. 1"=20' DRAWN BY: WJH  
 DATE: 10-05-2005 CHECKED BY: GFR

COMP. FILE: 030210-602A.dwg  
 DATE: 10-05-2005  
 DRAWN BY: WJH  
 CHECKED BY: GFR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	28
STA.	112+50	TO STA.	117+50	
FED. ROAD DIST. NO.	ILLINOIS	HIGHWAY PROJECT	83840	



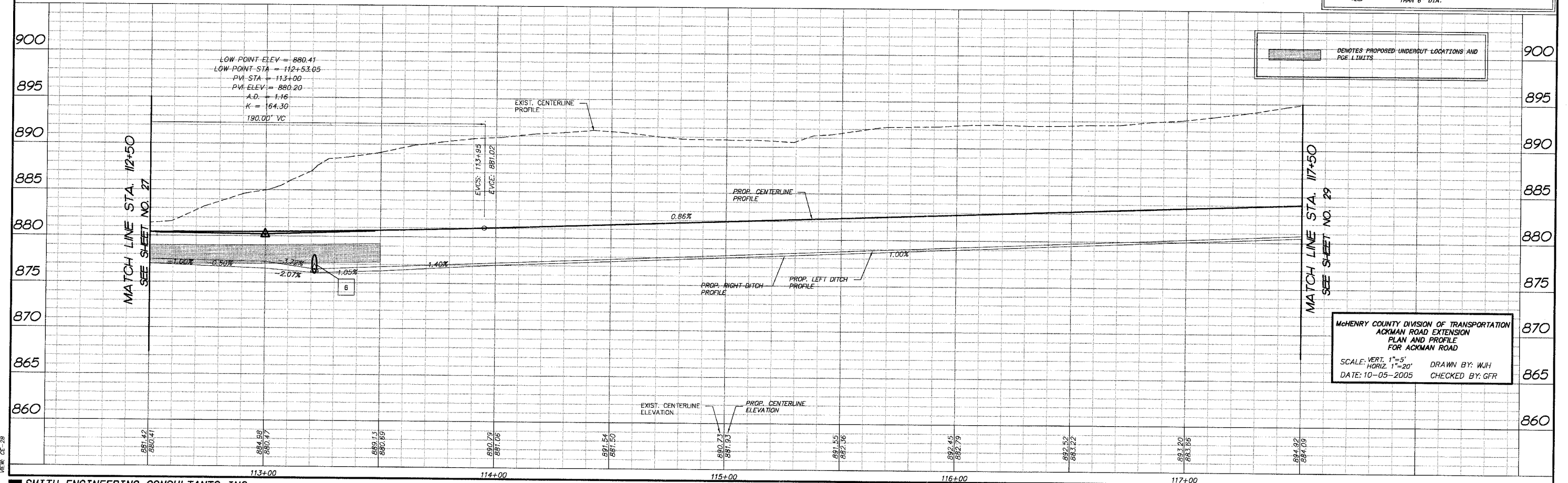
FINAL SURVEY	DATE
SURVEY PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	
NO.	



#	STORM SEWER TAGS
4	PRC FES 24" W/GRATE STA. 113+21.50, 32' LT INV = 876.45
5	50 LIN FT PIPE CULV CL A 1 24" @ 0.65%
6	PRC FES 24" W/GRATE STA. 113+21.50, 38' RT INV = 876.05

PROJECT LEGEND:	
	DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
	DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
	DENOTES AREA OF TRENCH BACKFILL
	DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
	DENOTES PROPOSED DRAINAGE DIRECTION ARROW
	DENOTES PROPOSED OVERFLOW DIRECTION ARROW
	DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
	DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

Ackman Road



MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION  
PLAN AND PROFILE  
FOR ACKMAN ROAD

SCALE: VERT. 1"=5'  
HORIZ. 1"=20' DRAWN BY: WJH  
DATE: 10-05-2005 CHECKED BY: GFR

COMP. FILE: 030210-602A.dwg  
DATE: 10-05-2005



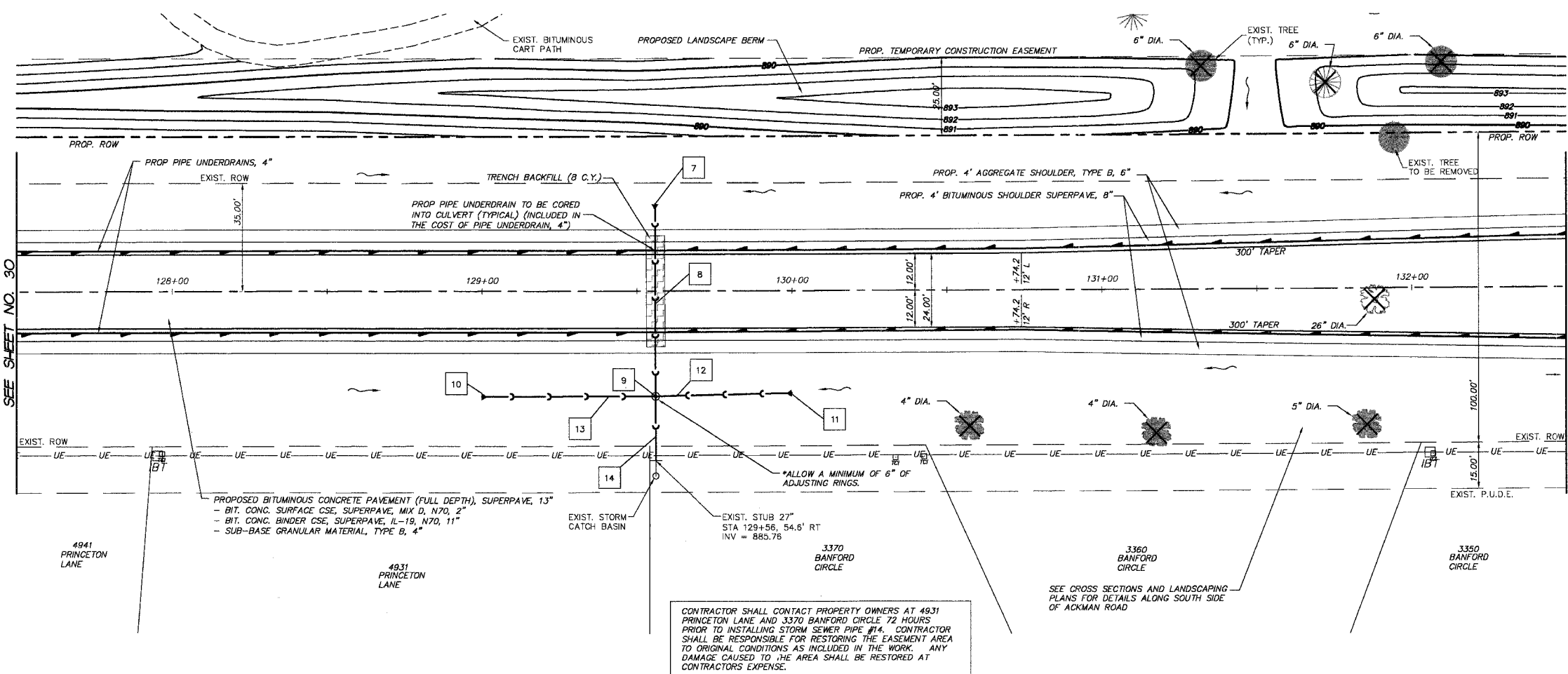




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	31
STA. 127+50	TO STA. 132+50			
FED. ROAD DIST. NO. 83840	ILLINOIS HIGHWAY PROJECT			

MATCH LINE STA. 127+50  
SEE SHEET NO. 30

MATCH LINE STA. 132+50  
SEE SHEET NO. 32

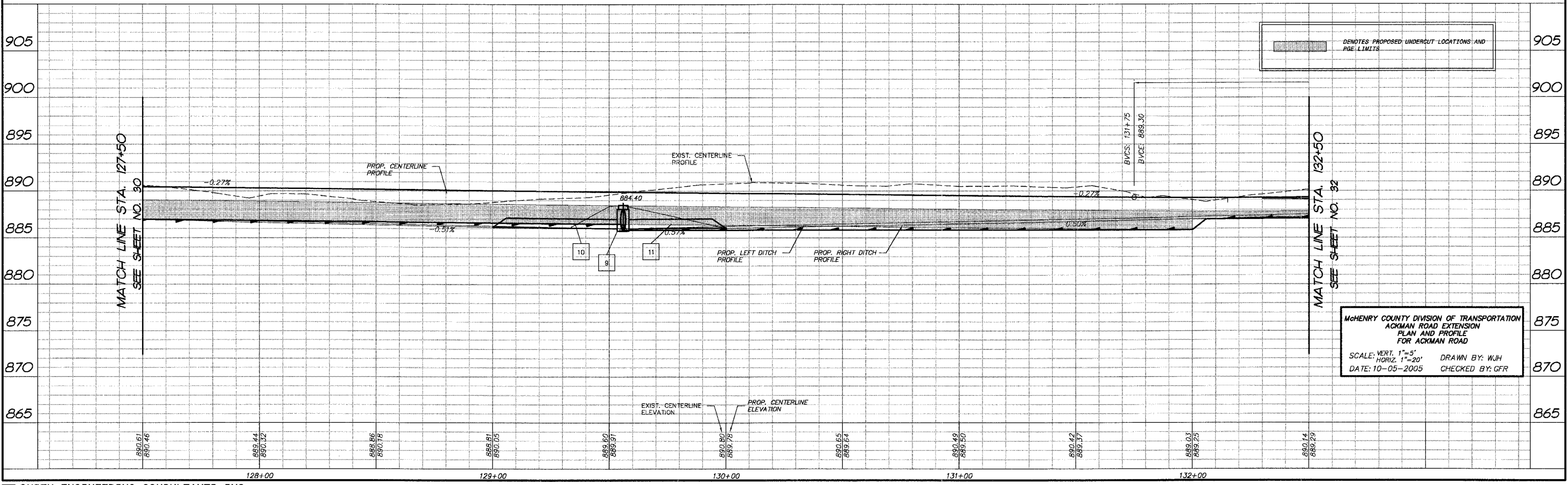


#	STORM SEWER TAGS
7	PRC FES EQRS 24" W/GRATE STA. 129+56, 30' LT INV = 886.00
8	56 LIN FT PIPE CULV CL A 1 EQRS 24" @ 0.24%
9	MH 5' DIA TA TBG STA. 129+56, 33.95' RT RIM = 889.80 INV = 885.85 (N,S) INV = 885.90 (W,E)
10	PRC FES 15" W/GRATE STA. 129+00, 34' RT INV = 886.15
11	PRC FES 15" W/GRATE STA. 130+00, 33' RT INV = 886.07
12	36 LIN FT SS CL A 1 15" @ 0.40%
13	48 LIN FT SS CL A 1 15" @ 0.46%
14	19 LIN FT SS CL A 1 27" @ 0.50%

PROJECT LEGEND:	
	DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
	DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
	DENOTES AREA OF TRENCH BACKFILL
	DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
	DENOTES PROPOSED DRAINAGE DIRECTION ARROW
	DENOTES PROPOSED OVERFLOW DIRECTION ARROW
	DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
	DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

CONTRACTOR SHALL CONTACT PROPERTY OWNERS AT 4931 PRINCETON LANE AND 3370 BANFORD CIRCLE 72 HOURS PRIOR TO INSTALLING STORM SEWER PIPE #14. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE EASEMENT AREA TO ORIGINAL CONDITIONS AS INCLUDED IN THE WORK. ANY DAMAGE CAUSED TO THE AREA SHALL BE RESTORED AT CONTRACTORS EXPENSE.

ACKMAN ROAD



MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION  
PLAN AND PROFILE  
FOR ACKMAN ROAD  
SCALE: VERT. 1"=5'  
HORIZ. 1"=20'  
DATE: 10-05-2005  
DRAWN BY: WJH  
CHECKED BY: GFR

NO.	AREAS CHECKED.	NOTE BOOK TEMPLATE	DATE

COMP. FILE: 030210-602A.dwg  
PLOT FILE: MEK 01-31





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	33
STA. 137+50	TO STA. 142+50			
FED. ROAD DIST. NO.	ILLINOIS HIGHWAY PROJECT			
B3840				

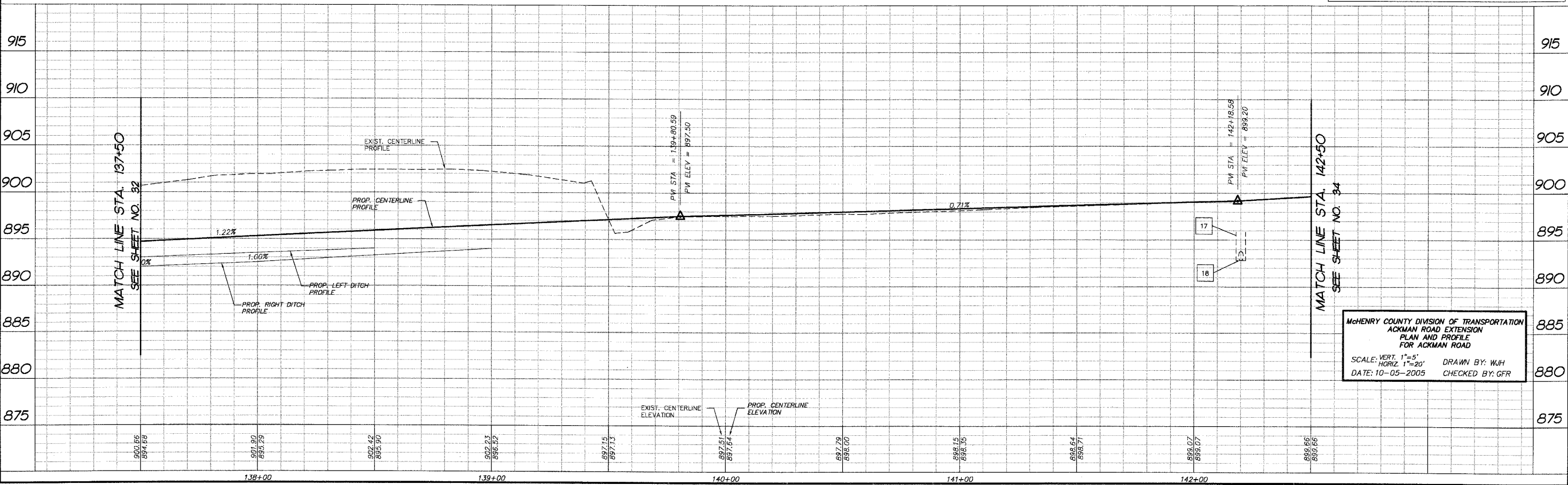
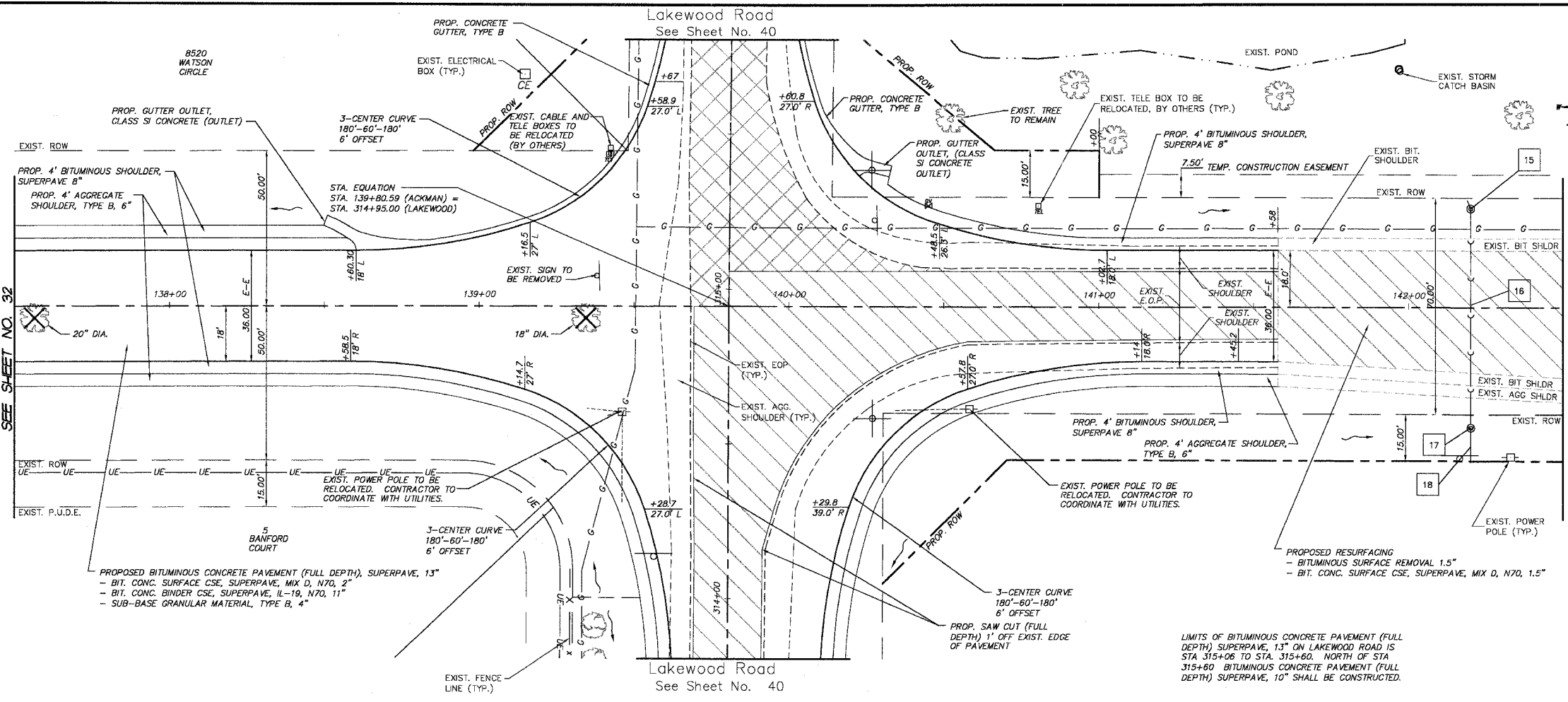
#	STORM SEWER TAGS
15	EXIST. MH TA 4 DIA TBG STA. 142+20, 31.6' LT RIM = 896.00 INV = 894.00 (NW) INV = 894.00 (S)
16	EXIST. STORM SEWER 24"
17	EXIST. MH TA 4 DIA TBG STA. 142+20, 39.2' RT RIM = 895.50 INV = 892.45 (N) INV = 892.45 (S)
18	EXIST. STORM SEWER 24"

PROJECT LEGEND:	
	DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
	DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
	DENOTES AREA OF TRENCH BACKFILL
	DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
	DENOTES PROPOSED DRAINAGE DIRECTION ARROW
	DENOTES PROPOSED OVERFLOW DIRECTION ARROW
	DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
	DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

FINAL SURVEY PLOTTED	BY	DATE
NOISE BOOK TEMPLATE		
AREAS CHECKED		
IND.		

MATCH LINE STA. 137+50  
SEE SHEET NO. 32

MATCH LINE STA. 142+50  
SEE SHEET NO. 34

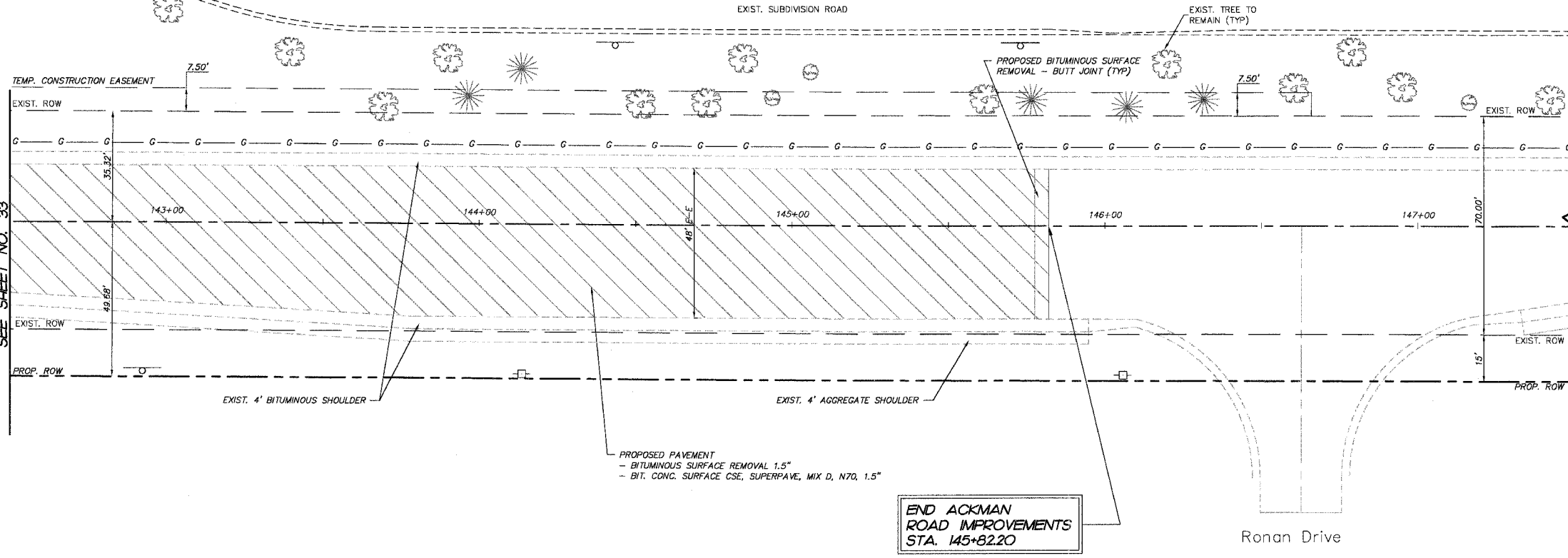


MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION  
PLAN AND PROFILE  
FOR ACKMAN ROAD  
SCALE: VERT. 1"=5' HORIZ. 1"=20'  
DATE: 10-05-2005 DRAWN BY: WJH  
CHECKED BY: GFR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	34
STA.	142+50	TO STA.	147+50	
FED. ROAD DIST. NO.	ILLINOIS HIGHWAY PROJECT B3840			

FINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		

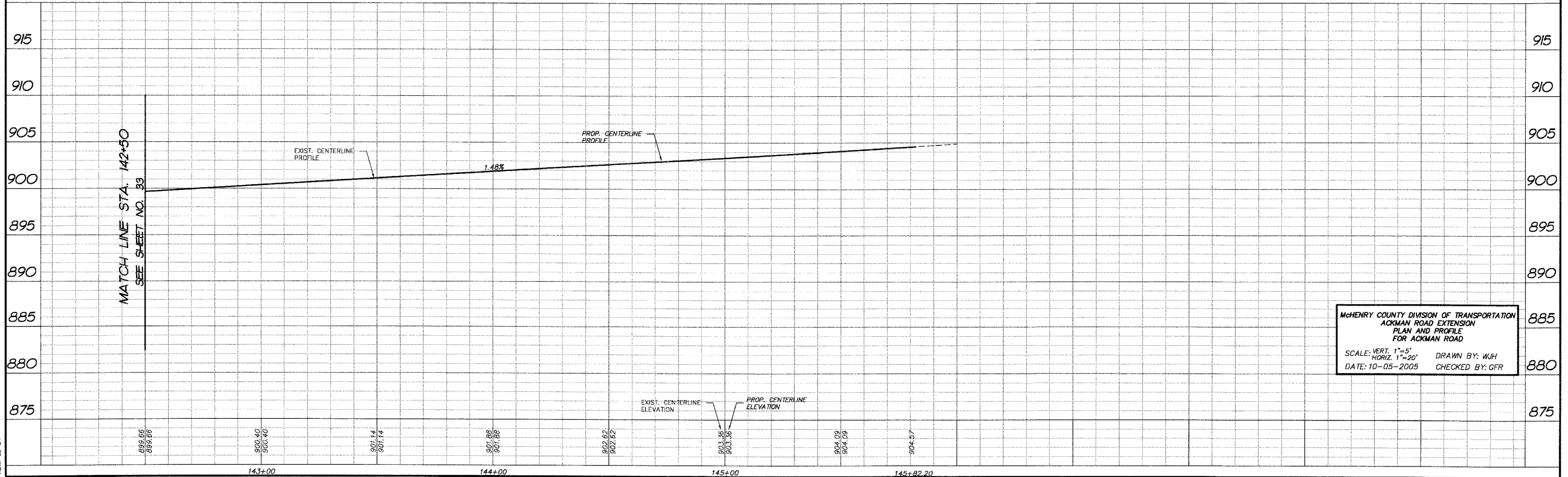
MATCH LINE STA. 142+50  
SEE SHEET NO. 33



**PROJECT LEGEND:**

- DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
- DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1/2" & BITUMINOUS RESURFACING
- DENOTES AREA OF TRENCH BACKFILL
- DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW
- DENOTES PROPOSED OVERFLOW DIRECTION ARROW
- DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
- DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

Ackman Road



McHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION  
PLAN AND PROFILE  
FOR ACKMAN ROAD  
SCALE: VERT. 1"=5'  
HORIZ. 1"=20'  
DATE: 10-05-2005  
DRAWN BY: WJH  
CHECKED BY: GFR

COMP. FILE: 030210-602A.dwg  
DATE: 10-05-2005  
USER: GFR



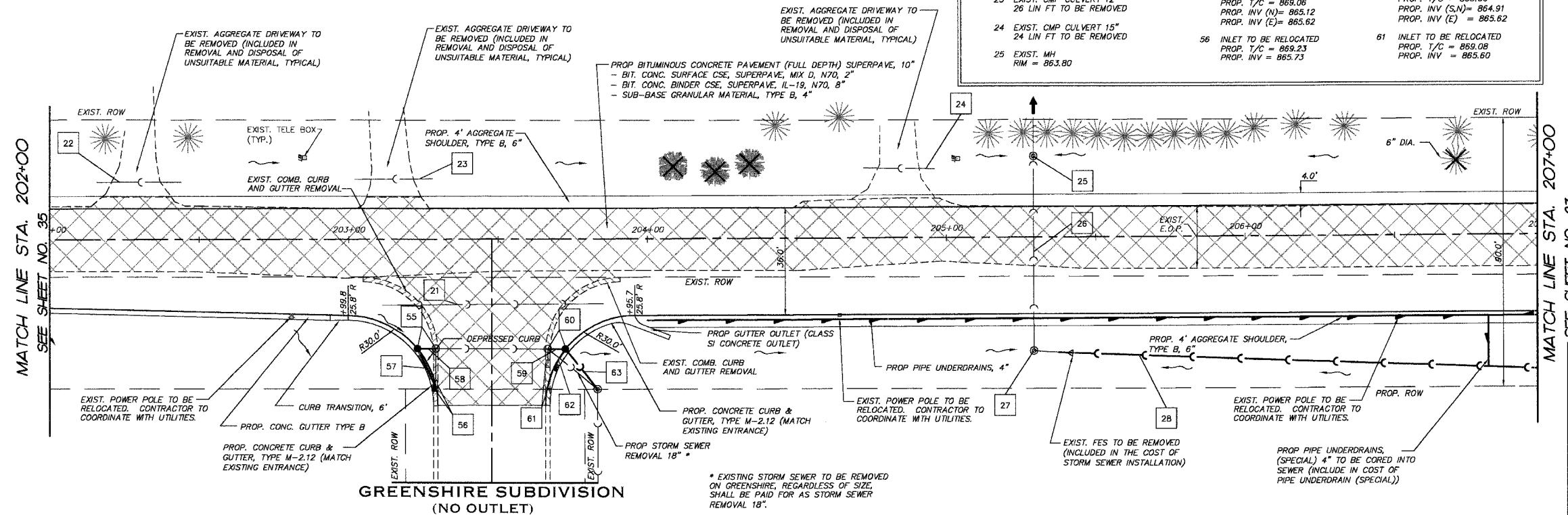
FINAL SURVEYED	DATE
SURVEY PLOTTED	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED
AREAS	
CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	36
STA.	202+00	TO STA.	207+00	
FED. ROAD DIST. NO.	ILLINOIS	HIGHWAY PROJECT		
83840				



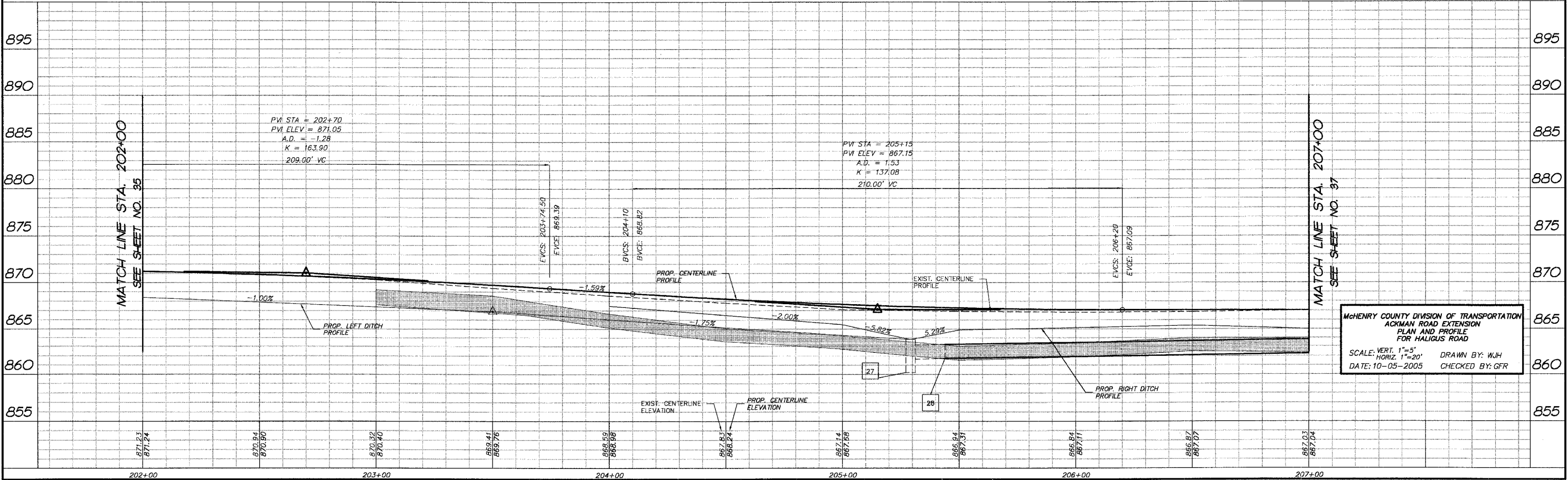
#	STORM SEWER TAGS		
21	EXIST. CMP CULVERT 15" TO BE REMOVED, 60 LIN FT	26	EXIST. STORM SEWER 18"
22	EXIST. CMP CULVERT 15" TO BE REMOVED, 25 LIN FT	27	EXIST. STORM MH RIM = 864.80 INV N = 861.66
23	EXIST. CMP CULVERT 12" 26 LIN FT TO BE REMOVED	28	PROP. SS RG CL A 1 18" 220 LIN FT @ 0.36%
24	EXIST. CMP CULVERT 15" 24 LIN FT TO BE REMOVED	55	CATCH BASIN TO BE RELOCATED PROP. T/C = 869.06 PROP. INV (N) = 865.12 PROP. INV (E) = 865.62
25	EXIST. MH RIM = 863.80	56	INLET TO BE RELOCATED PROP. T/C = 869.23 PROP. INV = 865.73
57	PROP. SS CL A 1 12" 11 LIN FT @ 0.50%	60	CATCH BASIN TO BE RELOCATED PROP. T/C = 869.06 PROP. INV (S,N) = 864.91 PROP. INV (E) = 865.62
58	PROP. SS CL A 1 18" 6 LIN FT @ 0.50%	61	INLET TO BE RELOCATED PROP. T/C = 869.08 PROP. INV = 865.60
59	PROP. SS CL A 1 18" 6 LIN FT @ 0.50%		

#	STORM SEWER TAGS
62	PROP. SS CL A 1 12" 8 LIN FT @ 0.50%
63	PROP. SS CL A 1 24" 13 LIN FT @ 0.30%



**PROJECT LEGEND:**

- DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
- DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
- DENOTES AREA OF TRENCH BACKFILL
- DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW
- DENOTES PROPOSED OVERFLOW DIRECTION ARROW
- DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
- DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.



MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION  
PLAN AND PROFILE  
FOR HALIGUS ROAD

SCALE: VERT. 1"=5'  
HORIZ. 1"=20'

DATE: 10-05-2005  
DRAWN BY: WJH  
CHECKED BY: GFR

COMP. FILE: 032010-0024.dwg  
PLOT FILE:  
WEEK: 02-08



BY	DATE
SURVEYED	
PLOTTED	
NOTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

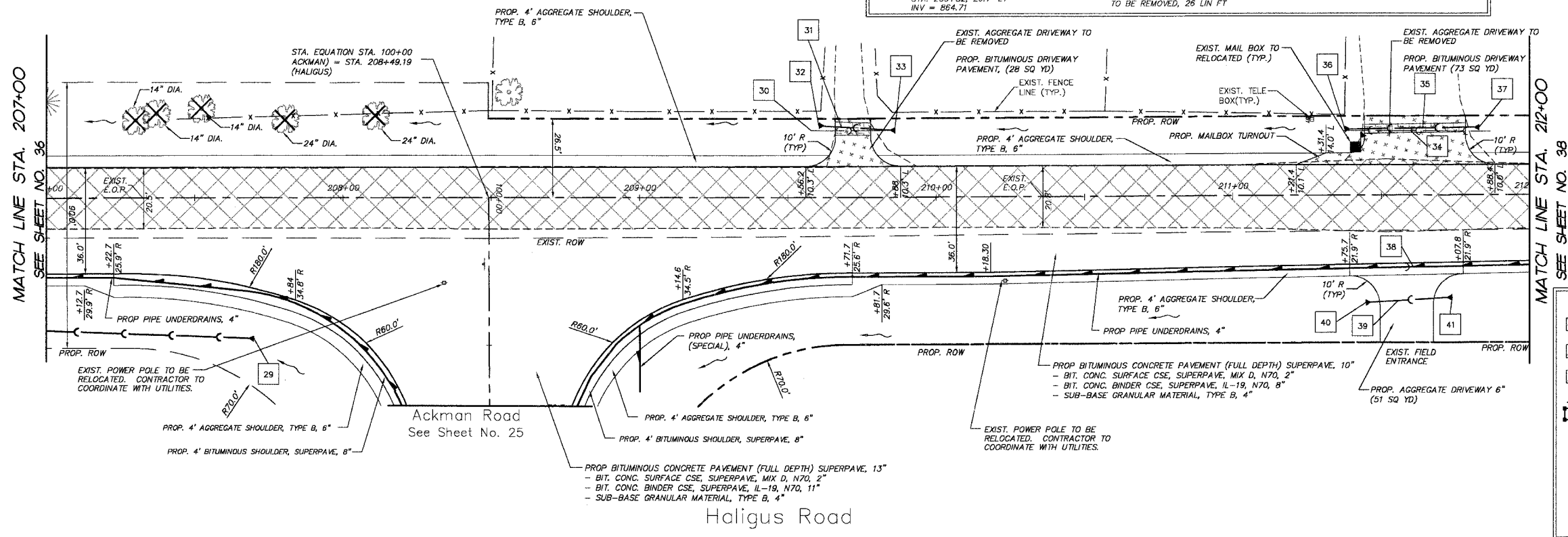
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-PP	MCHENRY	84	37
STA. 207+00		TO STA. 212+00		
FED. ROAD DIST. NO.		ILLINOIS	HIGHWAY PROJECT	
83840				



LIMITS OF BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 13" ON HALIGUS ROAD IS STA 207+22 TO STA. 209+72. OUTSIDE OF THOSE LIMITS, BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 10" SHALL BE CONSTRUCTED.

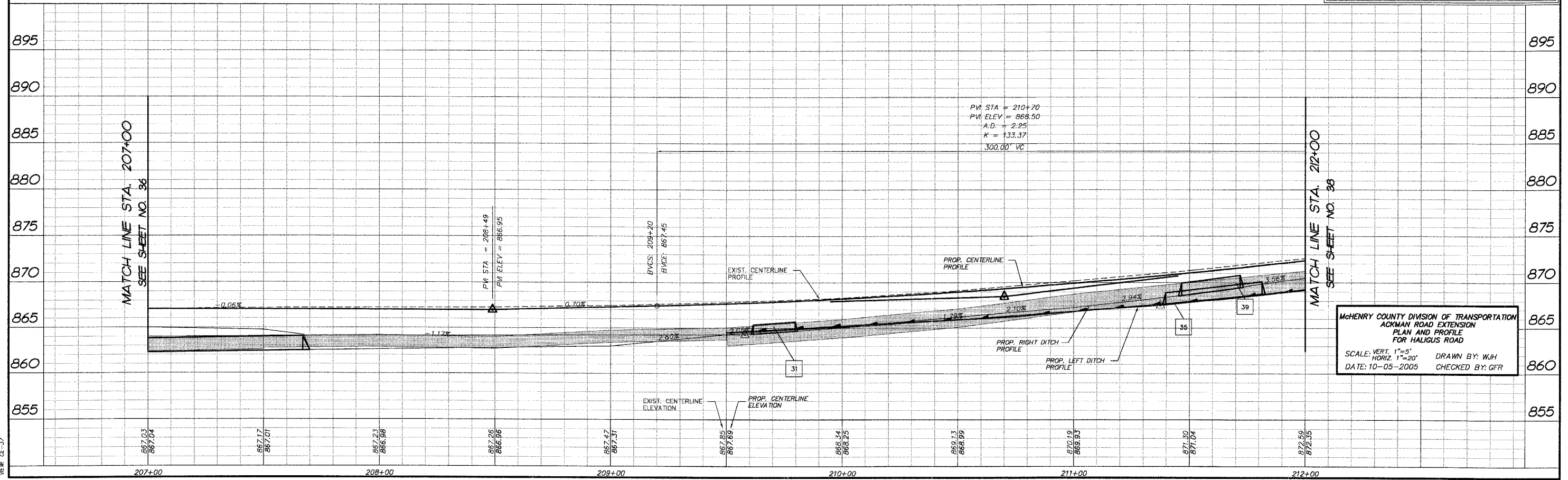
\*\*\*\*\* DENOTES PROPOSED BITUMINOUS DRIVEWAY PAVEMENT

#	STORM SEWER TAGS
29	PROP. PRC FES 18" STA. 207+70, 48' RT INV = 862.50
30	EXIST. CMP CULVERT 12" TO BE REMOVED, 27 LIN FT
31	22 LIN FT PIPE CULV CL D 1 15" @ 1.80% (TBF = 5.0 CU YD)
32	ALUMINUM END SECTIONS, 15" STA. 209+60, 27.0' LT INV = 864.35
33	ALUMINUM END SECTIONS, 15" STA. 209+82, 26.7' LT INV = 864.71
34	EXIST. CMP CULVERT 12" TO BE REMOVED, 50 LIN FT
35	43 LIN FT PIPE CULV CL D 1 ERS 15" @ 1.75% (TBF = 4.0 CU YD)
36	ALUMINUM END SECTIONS ERS 15" STA. 211+38, 22.3' LT INV = 867.53
37	ALUMINUM END SECTIONS ERS 15" STA. 211+84, 23.0' LT INV = 868.79
38	EXIST. CMP CULVERT 12" TO BE REMOVED, 26 LIN FT
39	29 LIN FT PIPE CULV CL D 1 15" @ 3.30% (TBF = 2.4 CU YD)
40	ALUMINUM END SECTIONS 15" STA. 211+44, 36.5' RT INV = 868.55
41	ALUMINUM END SECTIONS 15" STA. 211+73, 34.8' RT INV = 869.50



**PROJECT LEGEND:**

- DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
- DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
- DENOTES AREA OF TRENCH BACKFILL
- DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW
- DENOTES PROPOSED OVERFLOW DIRECTION ARROW
- DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
- DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

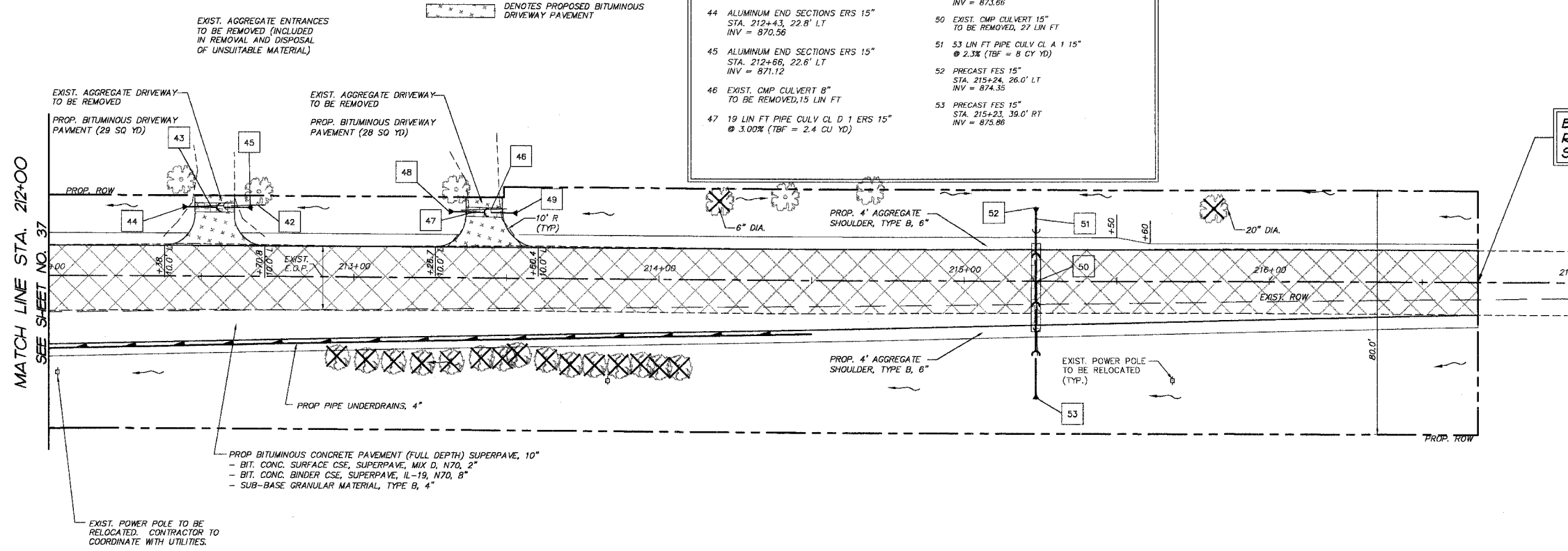


MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 PLAN AND PROFILE  
 FOR HALIGUS ROAD  
 SCALE: VERT. 1"=5' HORIZ. 1"=20'  
 DATE: 10-05-2005 DRAWN BY: W/JH CHECKED BY: GFR

COMP. FILE: 030210-60201.dwg  
 VIEW: CE-37

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	38
STA. 212+00 TO STA. 216+68.27				
FED. ROAD DIST. NO. 83840		ILLINOIS HIGHWAY PROJECT		

#	STORM SEWER TAGS
42	EXIST. CMP CULVERT 12" TO BE REMOVED, 26 LIN FT
43	19 LIN FT PIPE CULV CL D 1 ERS 15" @ 3.00% (TBF = 2.5 CU YD)
44	ALUMINUM END SECTIONS ERS 15" STA. 212+43, 22.8' LT INV = 870.56
45	ALUMINUM END SECTIONS ERS 15" STA. 212+66, 22.6' LT INV = 871.12
46	EXIST. CMP CULVERT 8" TO BE REMOVED, 15 LIN FT
47	19 LIN FT PIPE CULV CL D 1 ERS 15" @ 3.00% (TBF = 2.4 CU YD)
48	ALUMINUM END SECTIONS ERS 15" STA. 213+31, 21.5' LT INV = 873.05
49	ALUMINUM END SECTIONS ERS 15" STA. 213+53, 21.1' LT INV = 873.56
50	EXIST. CMP CULVERT 15" TO BE REMOVED, 27 LIN FT
51	53 LIN FT PIPE CULV CL A 1 15" @ 2.3% (TBF = 8 CY YD)
52	PRECAST FES 15" STA. 215+24, 26.0' LT INV = 874.35
53	PRECAST FES 15" STA. 215+23, 39.0' RT INV = 875.86

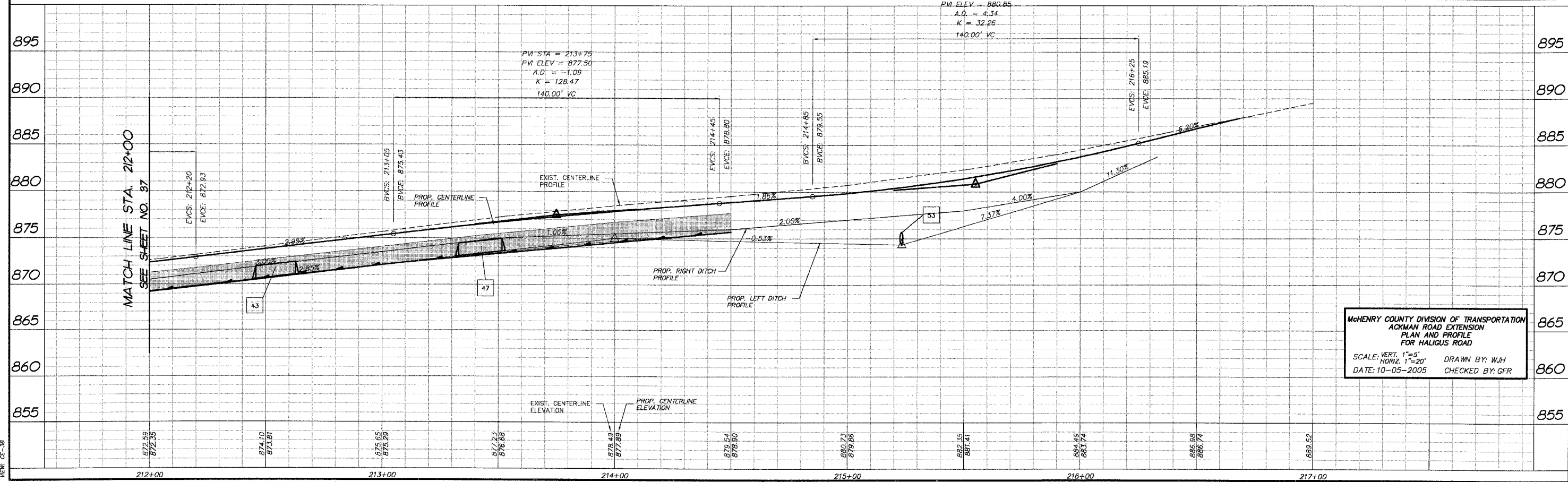


END HALIGUS ROAD IMPROVEMENTS STA. 216+68.28

PROJECT LEGEND:	
	DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
	DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
	DENOTES AREA OF TRENCH BACKFILL
	DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
	DENOTES PROPOSED DRAINAGE DIRECTION ARROW
	DENOTES PROPOSED OVERFLOW DIRECTION ARROW
	DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
	DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

Haligus Road

PVI STA = 215+55  
PVI ELEV = 880.85  
A.D. = 4.34  
K = 32.26  
140.00' VC



MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION  
PLAN AND PROFILE  
FOR HALIGUS ROAD  
SCALE: VERT. 1"=5'  
HORIZ. 1"=20'  
DATE: 10-05-2005  
DRAWN BY: WJH  
CHECKED BY: GFR

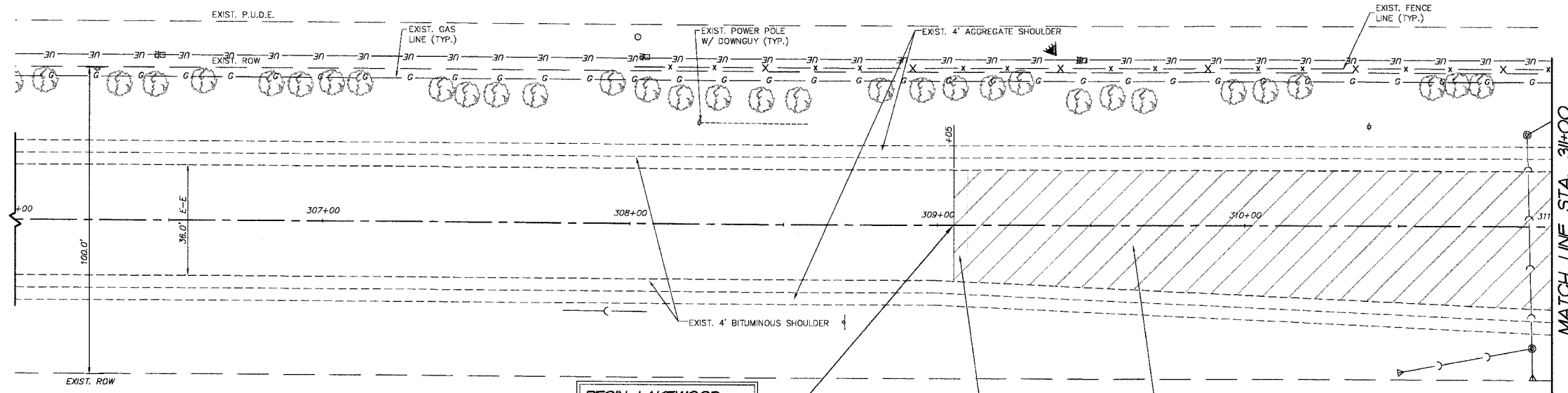
FINAL SURVEY PLOTTED	BY	DATE
NO. _____	_____	_____
NOTE BOOK	_____	_____
AREAS CHECKED	_____	_____
NO. _____	_____	_____

COMP. FILE: 030210-00243.dwg  
VIEW: 02-38

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00.00243.00.FP	MCHENRY	84	39
STA.	306+00	TO STA.	311+00	
FED. ROAD DIST. NO.	ILLINOIS HIGHWAY PROJECT 83840			



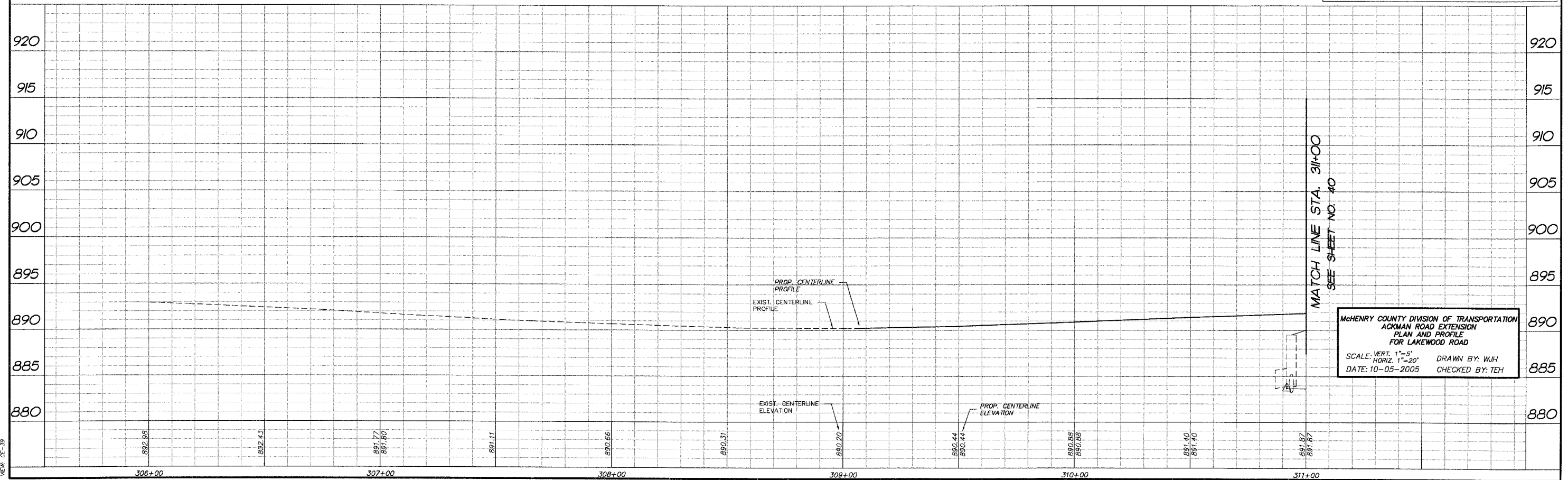
FINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



**PROJECT LEGEND:**

- DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
- DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
- DENOTES AREA OF TRENCH BACKFILL
- DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW
- DENOTES PROPOSED OVERFLOW DIRECTION ARROW
- DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
- DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

Lakewood Road

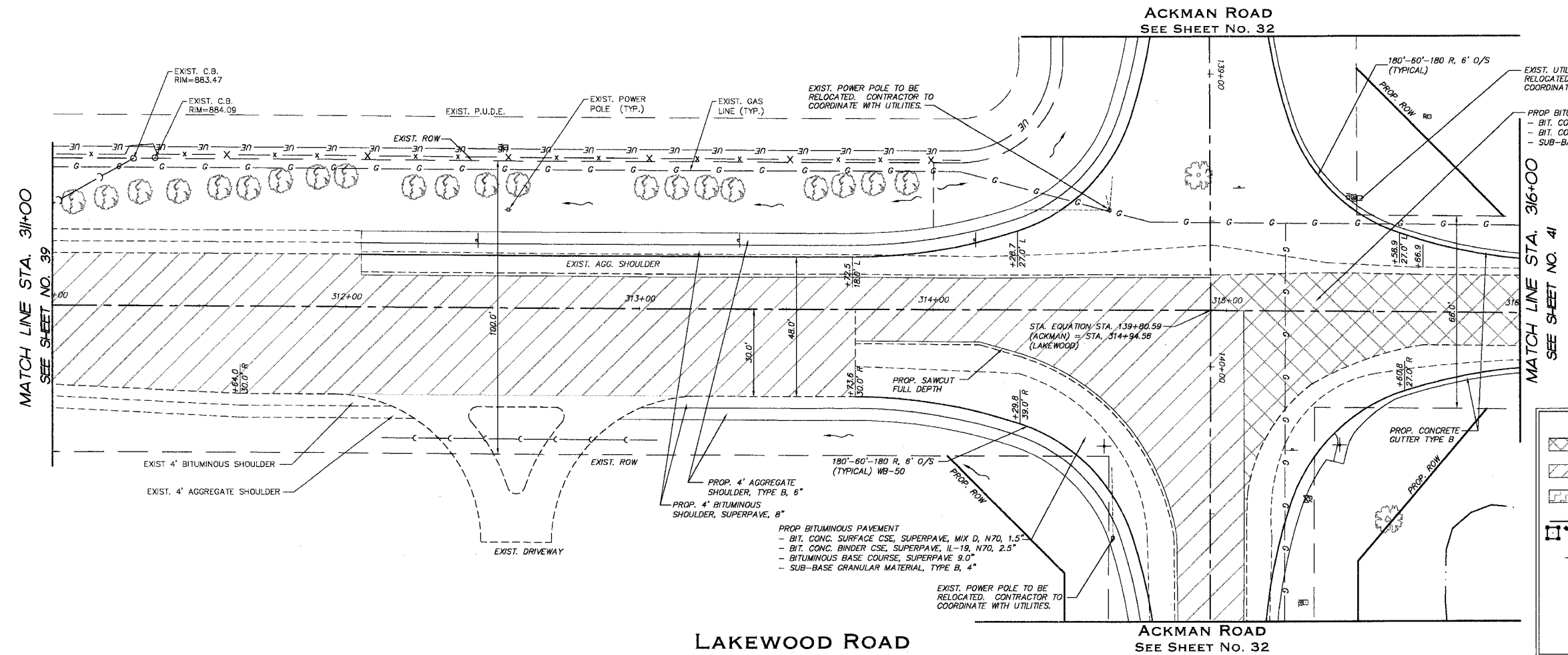


McHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 PLAN AND PROFILE  
 FOR LAKEWOOD ROAD  
 SCALE: VERT. 1"=5'      DRAWN BY: WJH  
 HORIZ. 1"=20'      DATE: 10-05-2005      CHECKED BY: TEH

COMP. FILE: 0320210-602L.dwg  
 PLOT FILE: 10-05-05-39



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00.00243.00.FP	MCHENRY	84	40
	STA. 311+00	TO STA. 316+00		
FED. ROAD DIST. NO.	ILLINOIS HIGHWAY PROJECT 83840			



PROP. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 13"  
 - BIT. CONC. SURFACE CSE, SUPERPAVE, MIX D, N70, 2"  
 - BIT. CONC. BINDER CSE, SUPERPAVE, IL-19, N70, 11"  
 - SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

LIMITS OF BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 13" ON LAKEWOOD ROAD IS STA 315+06 TO STA. 315+60. NORTH OF STA. 315+60 BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 10" SHALL BE CONSTRUCTED.

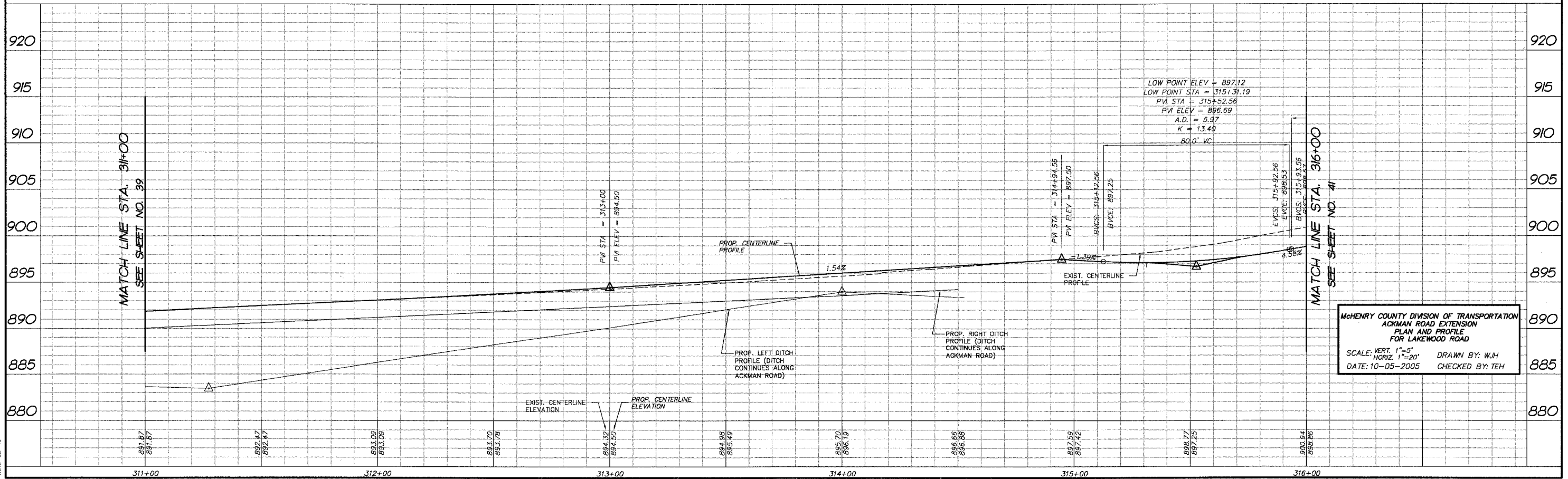
**PROJECT LEGEND:**

- DENOTES PROPOSED BITUMINOUS PAVEMENT REMOVAL, (FULL DEPTH)
- DENOTES PROPOSED BITUMINOUS SURFACE REMOVAL 1 1/2" & BITUMINOUS RESURFACING
- DENOTES AREA OF TRENCH BACKFILL
- DENOTES PERIMETER EROSION BARRIER (SILT FENCE), INLET & PIPE PROTECTION AND DITCH CHECK
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW
- DENOTES PROPOSED OVERFLOW DIRECTION ARROW
- DENOTES EXIST. TREES TO BE REMOVED GREATER THAN 6" DIA.
- DENOTES EXIST. TREES TO BE REMOVED LESS THAN 6" DIA.

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

**LAKWOOD ROAD**

**ACKMAN ROAD**  
SEE SHEET NO. 32



McHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 PLAN AND PROFILE  
 FOR LAKEWOOD ROAD

SCALE: VERT. 1"=5'  
 HORIZ. 1"=20'

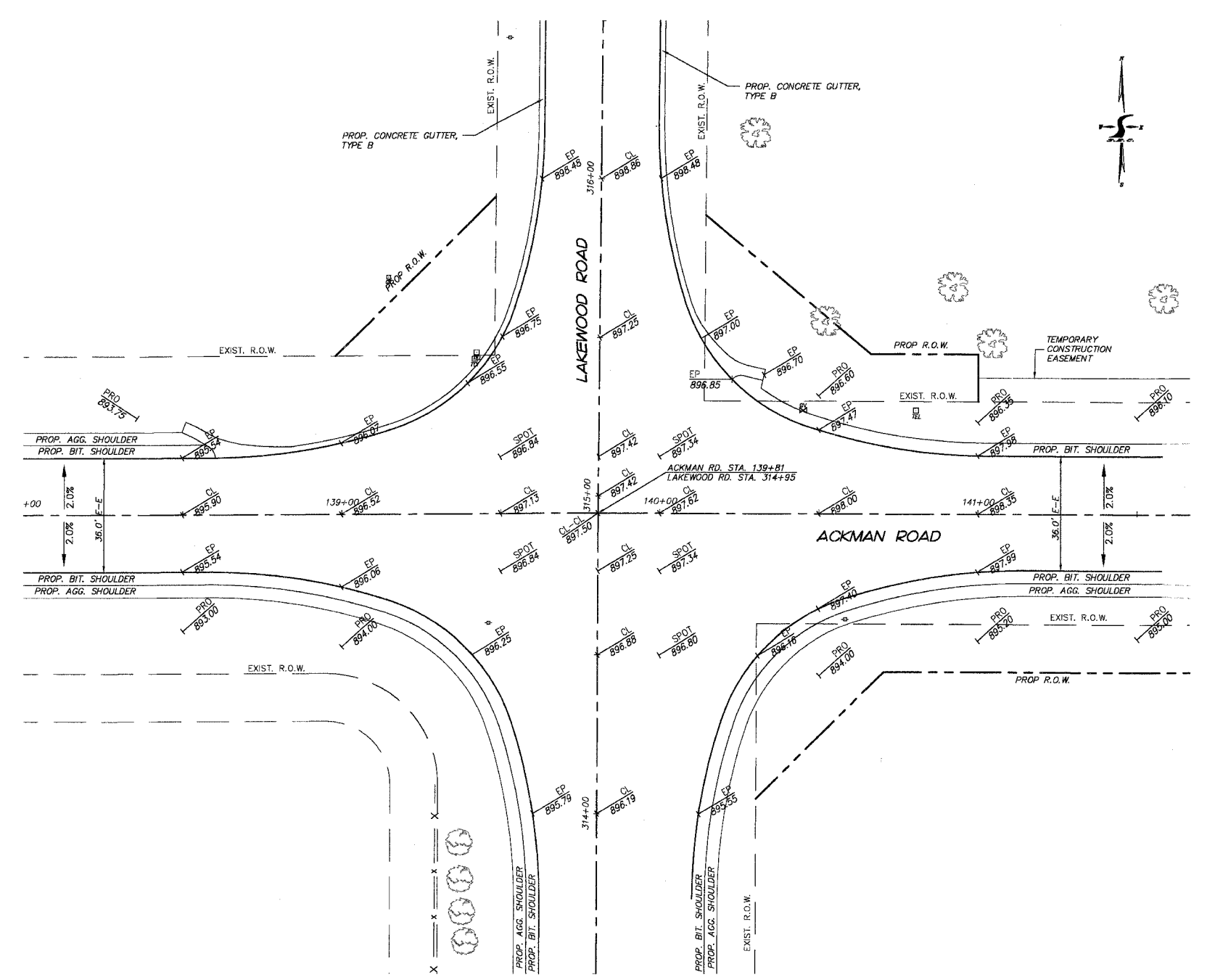
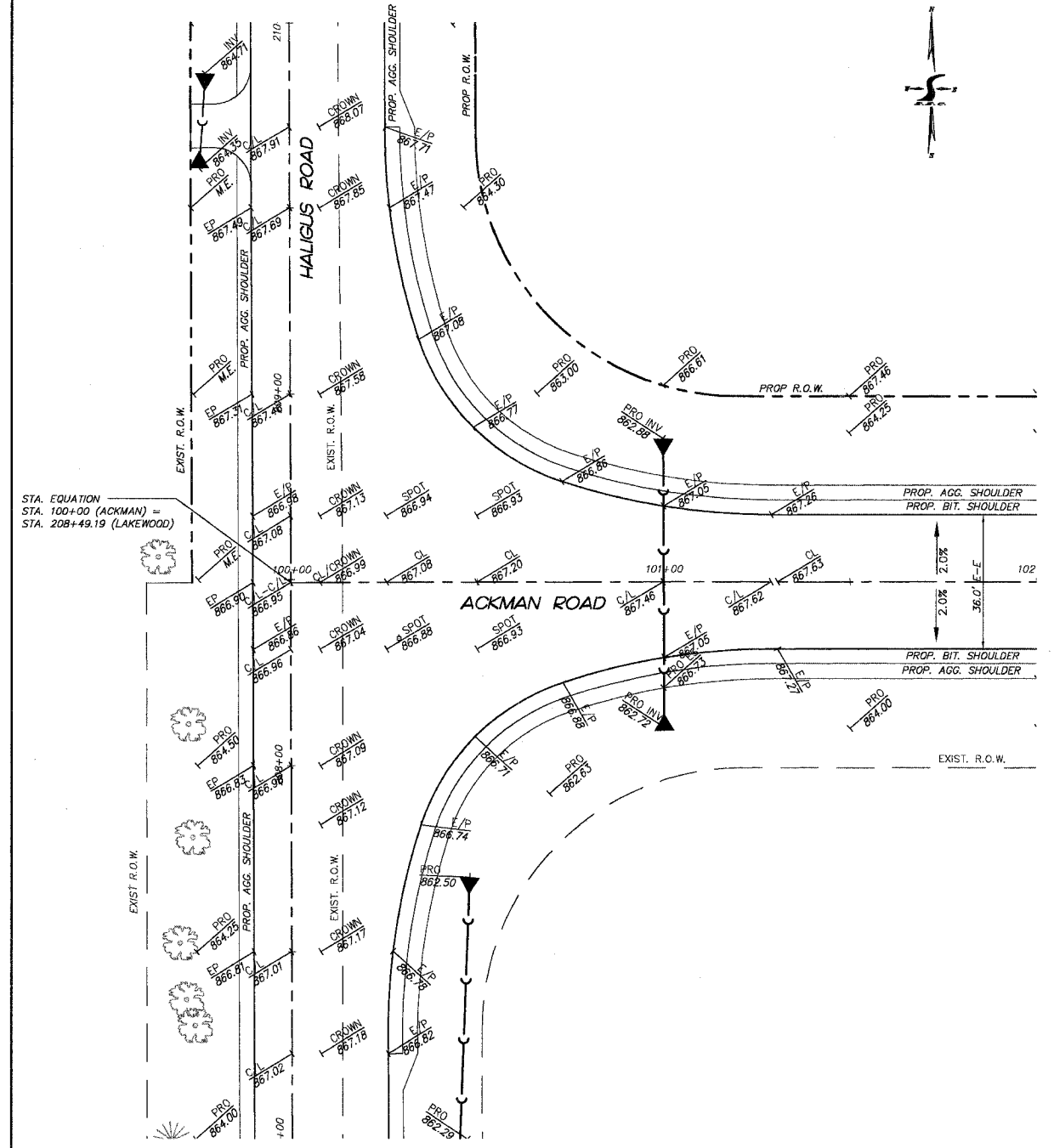
DATE: 10-05-2005  
 DRAWN BY: WJH  
 CHECKED BY: TEH

COMP. FILE: 030210-602.dwg  
 PLOT FILE: CE-40  
 ME: WJH





F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	00-0062-00-CH	MCHENRY	84	43
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
83840				



PLOT FILE: STANDARD  
 DATE: 05-04-05  
 COMP. FILE: 030210-812.dwg

REVISIONS	
NO.	DATE
7.	
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4000 PRIME PARKWAY, SUITE 201  
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 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 • MCHENRY • BURLY • YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

McHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 INTERSECTION PAVEMENT  
 ELEVATION PLAN

SCALE: 1"=20'  
 DATE 10-05-2005  
 DRAWN BY WJH  
 CHECKED BY GFR

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHEMRY	84	44
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
83840				

**EROSION CONTROL NOTES:**

WORK SHALL BE DONE IN ACCORDANCE WITH HIGHWAY STANDARD 280001 AND DETAILS IN THE PLANS.

LOCATION OF THE PERIMETER EROSION BARRIER SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.

PERIMETER EROSION BARRIER MUST REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY OR AFTER A ONE-HALF INCH OR GREATER RAINFALL EVENT AND ANY REQUIRED REPAIRS WILL BE MADE.

WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION SHALL BE FILTERED AND A MEANS PROVIDED TO REDUCE EROSION.

ANY DISTURBED GROUND SHALL BE PROTECTED WITHIN 7 DAYS WITH EITHER PERMANENT OR TEMPORARY EROSION CONTROL MEASURES.

CONTRACTOR SHALL NOT DISTURB GROUND OUTSIDE THE PERIMETER EROSION BARRIER. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREA OTHER THAN INDICATED ON THESE PLANS, A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

AT ALL TIMES, PERIMETER EROSION BARRIER SHALL BE INSTALLED BETWEEN ALL DISTURBED AREAS. PERIMETER BARRIERS SHALL BE INSPECTED AT THE END OF EACH WORK DAY AND PRIOR TO ANY RAIN EVENTS.

ALL INLETS ON AND ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES.

STOCKPILES SHALL BE LOCATED IN AREAS THAT DO NOT HAVE HIGH POTENTIAL FOR CONTRIBUTING SEDIMENTS TO THE ADJACENT PROPERTIES OR STORMWATER STRUCTURES. THE SITE SHALL BE APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL ESTABLISH FIELD ENTRANCES TO PREVENT TRACKING OF DEBRIS ONTO THE ADJACENT ROADWAYS. ROADWAYS SHALL REMAIN CLEAR OF DEBRIS AND SHALL BE CLEANED AS NECESSARY OR AS DIRECTED BY THE ENGINEER. THIS WORK IS INCLUDED AS PART OF THE CONTRACT AND NOT PAID FOR SEPARATELY.

**SEQUENCE OF CONSTRUCTION**

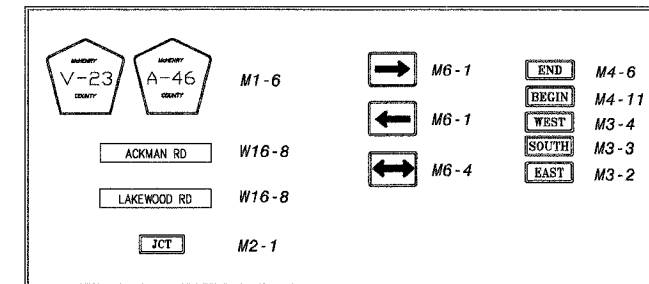
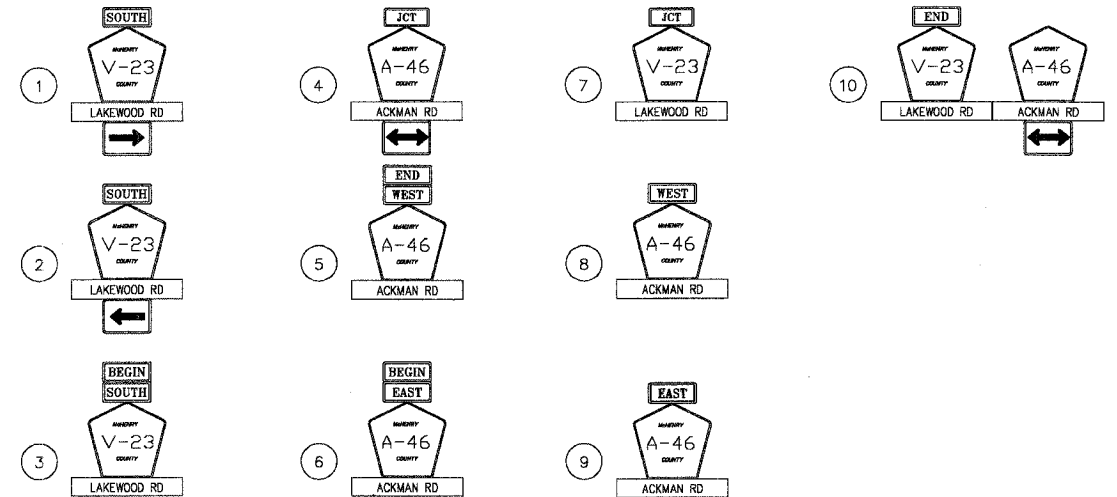
1. INSTALL PERIMETER EROSION BARRIER.
2. PERFORM EARTHWORK OPERATIONS
3. INSTALL REMAINING TEMPORARY EROSION CONTROL MEASURES
4. INSTALL UNDERGROUND UTILITIES AND INITIATE ROADWAY RECONSTRUCTION.
5. COMPLETE ROADWAY RECONSTRUCTION AND ESTABLISH SEEDING (SPECIAL).

**PAVEMENT MARKING GENERAL NOTES**

PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL SHEET.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT).

EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED WORK SHALL BE REMOVED. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.



**SIGNING GENERAL NOTES**

ALL SIGNS SHALL BE INSTALLED ON 2" GS SQUARE CHANNEL POSTS WITH OMNI ANCHORS.

ALL SIGNS SHALL BE DIAMOND GRADE DG<sup>3</sup> SIGN MATERIAL.

ALL ROAD NAMEPLATES SHALL BE 9" TALL WITH 6" UPPER AND LOWER CASE LETTERING. FONT FOR ROAD NAMES SHALL BE CLEARVIEW HWY FONT.

LARGE ARROW SIGNS (30"X60") SHALL BE FLUORESCENT YELLOW.

EXISTING SIGNS AND POSTS REMOVED AND NOT REUSED SHALL BE RETURNED TO MCHEMRY COUNTY DIVISION OF TRANSPORTATION. THESE SIGNS SHALL BE DELIVERED TO THE DIVISIONS WOODSTOCK OFFICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE PROJECT.

SIGNS IN CONFLICT WITH THE PROPOSED WORK SHALL BE REMOVED, STORED AND REINSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SIGNS. THIS WORK SHALL BE PAID FOR EACH AS 'SIGN TO BE RELOCATED' WHICH INCLUDES THE REMOVAL, STORAGE, REINSTALLATION AND ANY NEW POSTS OR HARDWARE NECESSARY FOR REINSTALLATION.

REVISIONS	
NO.	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4600 FIRME PASSWAY, SUITE 201  
 MCHEMRY, ILLINOIS 60050  
 PH: 815-385-1776 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 MCHEMRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHEMRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 PAVEMENT MARKING, SIGNING, EROSION  
 CONTROL AND RESTORATION PLAN  
 GENERAL NOTES

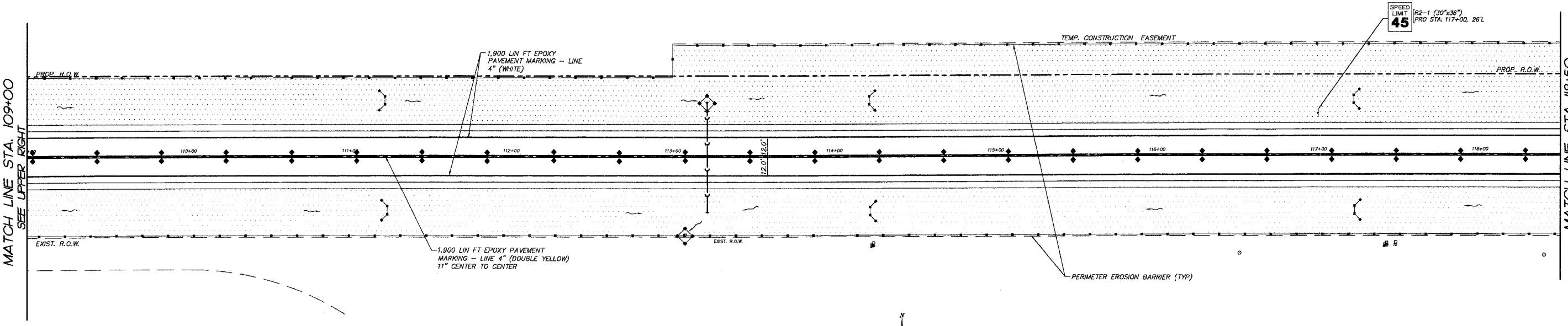
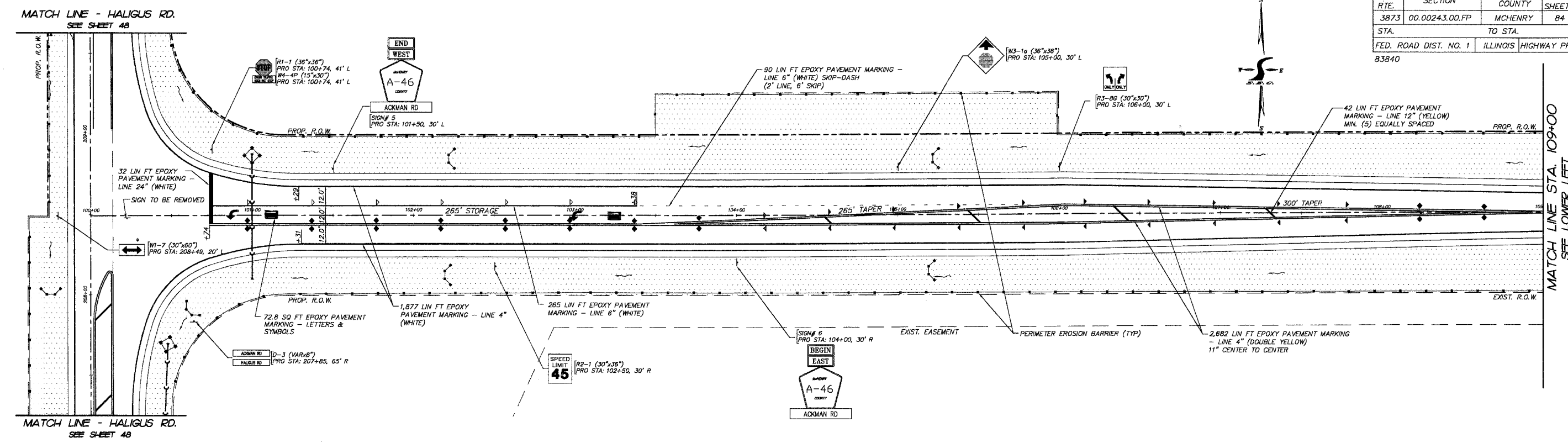
SCALE: 1"=30'  
 DATE 10-05-2005

DRAWN BY MDJ  
 CHECKED BY TEH

PLT FILE STANDARD  
 NEW DEL-14  
 COMP. FILE: 030210-StripPlan.dwg



F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00.00243.00.FP	MCHENRY	84	45
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT	83840	



PLOT FILE: STANDARD  
 VIEW: CE-45  
 COMP. FILE: 030210-StrappingPlan.dwg

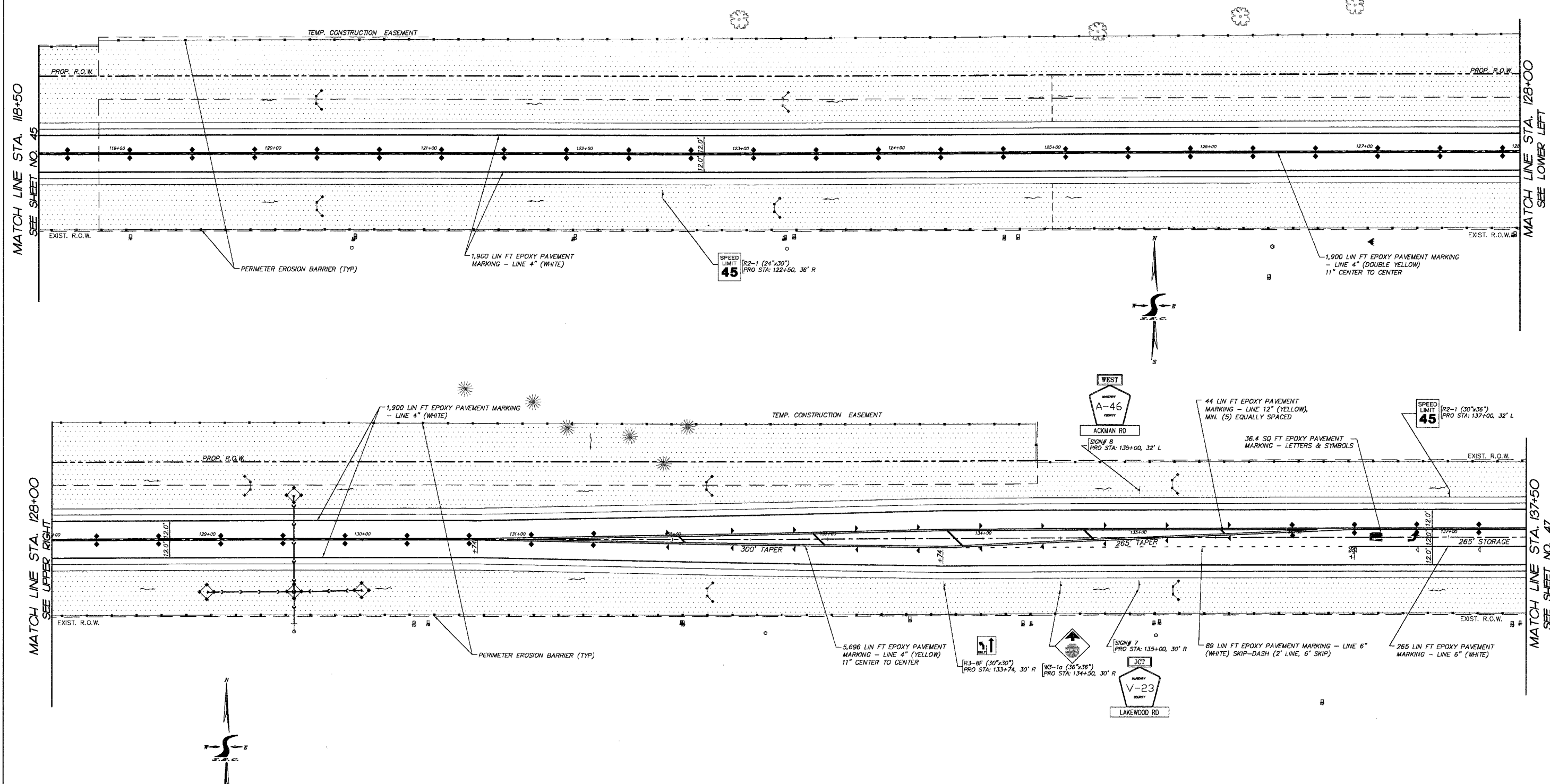
REVISIONS	
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4800 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1776 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 164-000108

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**  
**PAVEMENT MARKING, SIGNING, EROSION CONTROL AND RESTORATION PLAN**  
**STA. 100+00 TO STA. 118+50**

SCALE: 1"=30'  
 DATE 10-05-2005  
 DRAWN BY MDJ  
 CHECKED BY TEH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00.00243.00.FP	MCHENRY	84	46
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
83840				



**LEGEND**

	FURNISH AND PLACE TOPSOIL 6" WITH SEEDING (SPECIAL) AND EROSION CONTROL BLANKET
	DENOTES PERIMETER EROSION BARRIER
	DENOTES TEMPORARY DITCH CHECK AND INLET AND PIPE PROTECTION

**REVISIONS**

NO.	NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4000 PRIMES PARKWAY, SUITE 200  
 MCHENRY, ILLINOIS 60050  
 TEL: 815-385-1778 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

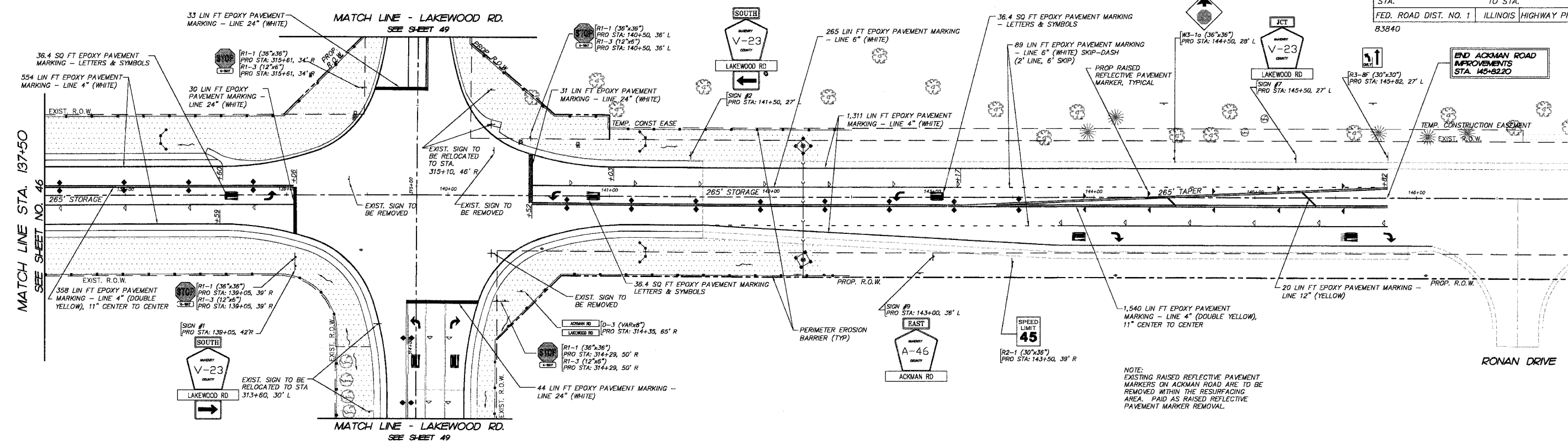
**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
 ACKMAN ROAD EXTENSION  
 PAVEMENT MARKING, SIGNING, EROSION  
 CONTROL AND RESTORATION PLAN  
 STA. 118+50 TO STA. 137+50

SCALE: 1"=30'  
 DATE 10-05-2005  
 DRAWN BY MDJ  
 CHECKED BY TEH

PLT FILE: R21000.DWG  
 VIEW: CE-46  
 COMP. FILE: 03/2010-StripingPlan.dwg



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00.00243.00.FP	MCHENRY	84	47
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
83840				



NOTE:  
EXISTING RAISED REFLECTIVE PAVEMENT MARKERS ON ACKMAN ROAD ARE TO BE REMOVED WITHIN THE RESURFACING AREA. PAID AS RAISED REFLECTIVE PAVEMENT MARKER REMOVAL.

**LEGEND**

	FURNISH AND PLACE TOPSOIL 6" WITH SEEDING (SPECIAL) AND EROSION CONTROL BLANKET
	DENOTES PERIMETER EROSION BARRIER
	DENOTES TEMPORARY DITCH CHECK AND INLET AND PIPE PROTECTION



**REVISIONS**

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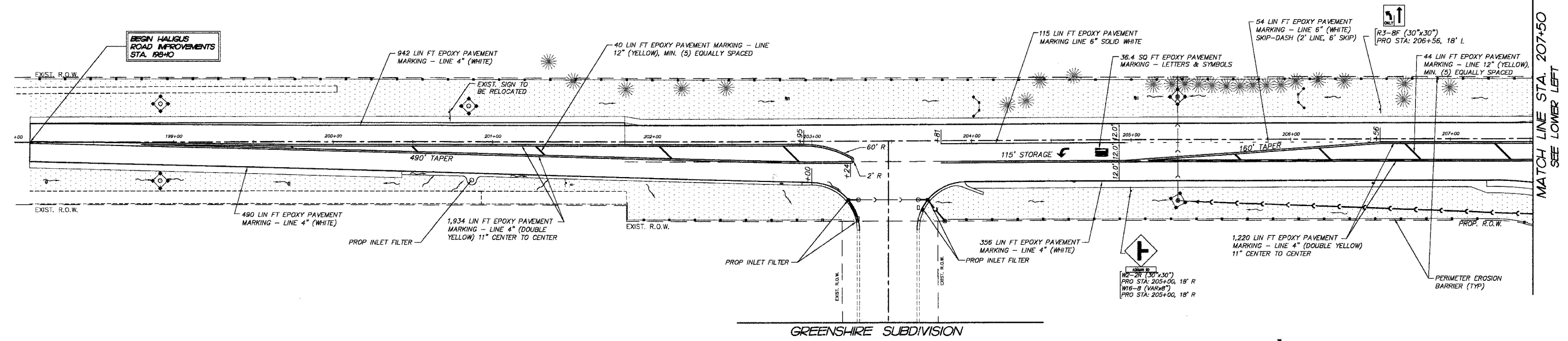
**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4000 PRIME PARKWAY, SUITE 200  
MCHENRY, ILLINOIS 60050  
TEL: 815-380-1778 FAX: 815-380-1781  
www.smithengineering.com E-MAIL: seo@smithengineering.com  
MCHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
ACKMAN ROAD EXTENSION  
PAVEMENT MARKING, SIGNING, EROSION  
CONTROL AND RESTORATION PLAN  
STA. 137+50 TO STA. 148+82

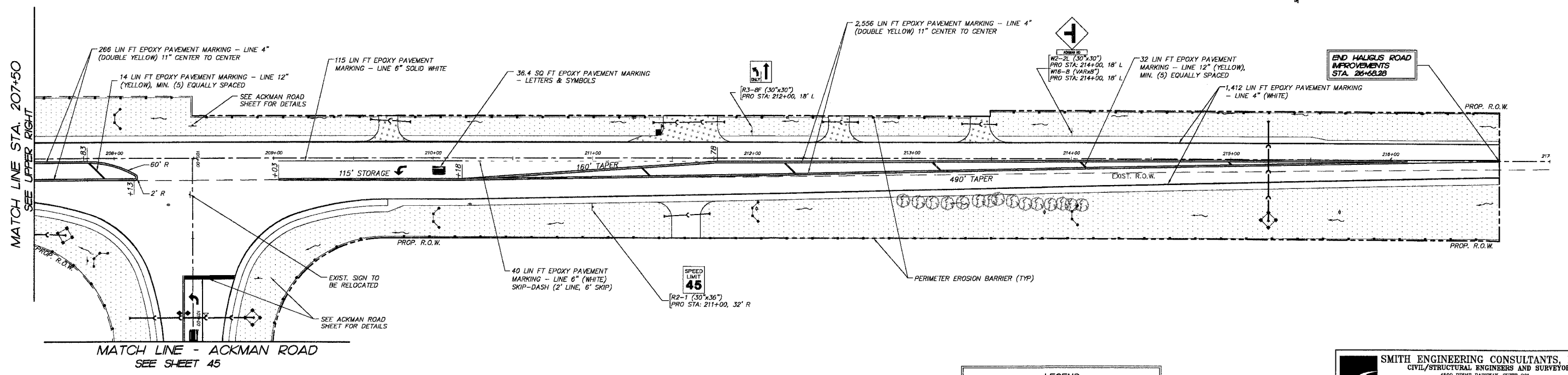
SCALE: 1"=30'  
DATE 10-05-2005  
DRAWN BY MDJ  
CHECKED BY TEH

PLOT FILE: STANDARD  
 VIEW: CE 47  
 COMP. FILE: 030210-StripingPlan.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00.00243.00.FP	MCHENRY	84	48
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
83840				



MATCH LINE STA. 207+50  
SEE LOWER LEFT



MATCH LINE STA. 207+50  
SEE UPPER RIGHT

LEGEND	
	FURNISH AND PLACE TOPSOIL 6" WITH SEEDING (SPECIAL) AND EROSION CONTROL BLANKET
	DENOTES PERIMETER EROSION BARRIER
	DENOTES TEMPORARY DITCH CHECK AND INLET AND PIPE PROTECTION

REVISIONS	
NO.	DATE
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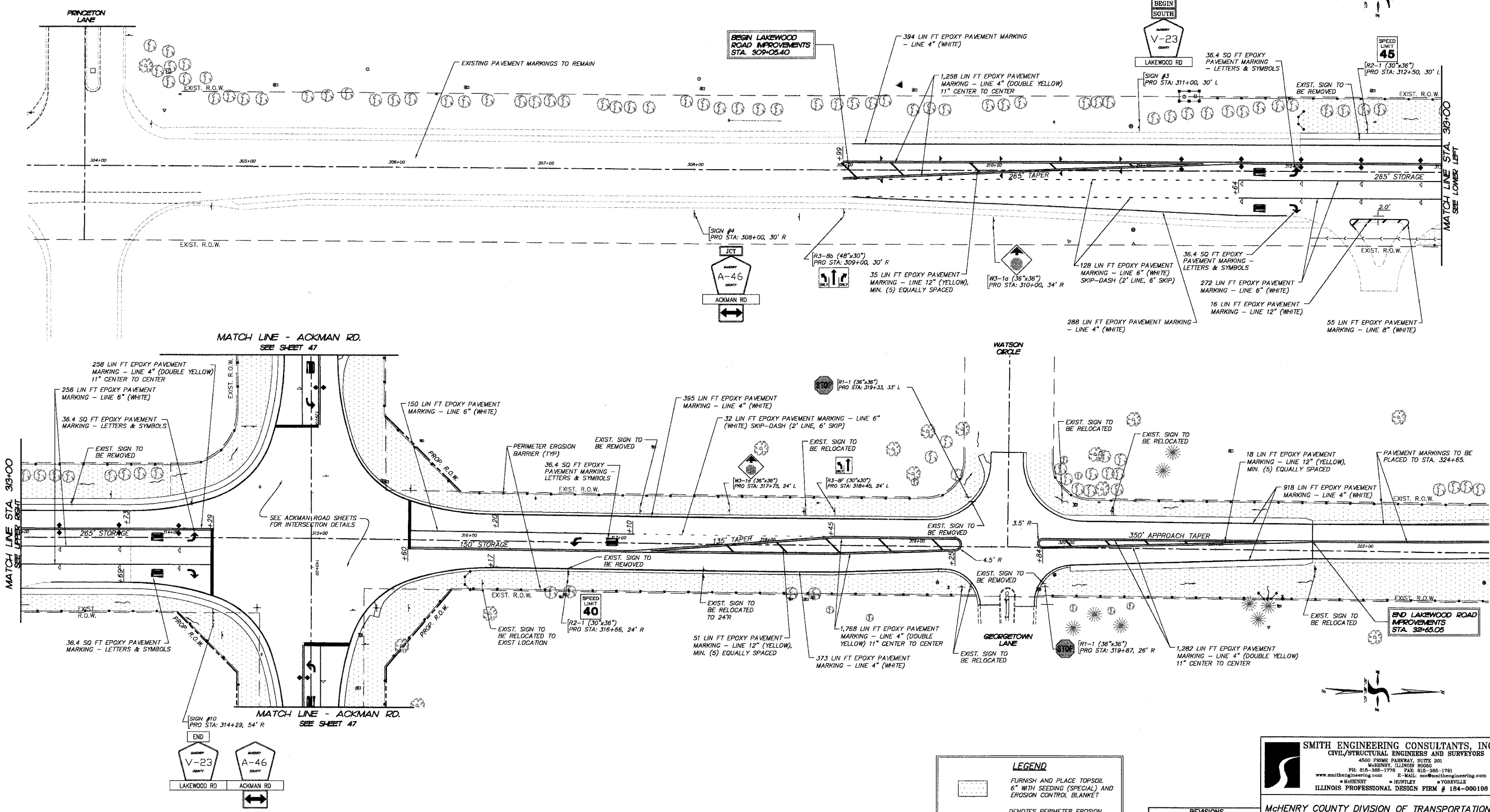
**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIMES PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60056  
 PH: 815-386-1778 FAX: 815-386-1781  
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 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
 ACKMAN ROAD EXTENSION  
 PAVEMENT MARKING, SIGNING, EROSION CONTROL AND RESTORATION PLAN FOR HALIGUS ROAD

SCALE: 1" = 30'  
 DATE 10-05-2005  
 DRAWN BY MDJ  
 CHECKED BY TEH

PLOT FILE: STANDARD  
 WORK: CE 84  
 COMPT. FILE: 030210-StrigipmpPlan.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	49
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
83840				



**LEGEND**

	FURNISH AND PLACE TOPSOIL 6" WITH SEEDING (SPECIAL) AND EROSION CONTROL BLANKET
	DENOTES PERIMETER EROSION BARRIER
	DENOTES TEMPORARY DITCH CHECK AND INLET AND PIPE PROTECTION

**REVISIONS**

NO.	NAME	DATE
7		
6		
5		
4		
3		
2		
1		

**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1770 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: sec@smitheng.com  
 \*MCHENRY \*HUNTER \*YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**  
**PAVEMENT MARKING, SIGNING, EROSION**  
**CONTROL AND RESTORATION PLAN FOR**  
**LAKEWOOD ROAD**

SCALE: 1"=30'  
 DATE 10-05-2005  
 DRAWN BY MDJ  
 CHECKED BY TEH

PLOT FILE: STANDARD  
 COMP. FILE: D30210-StripingPlan.dwg



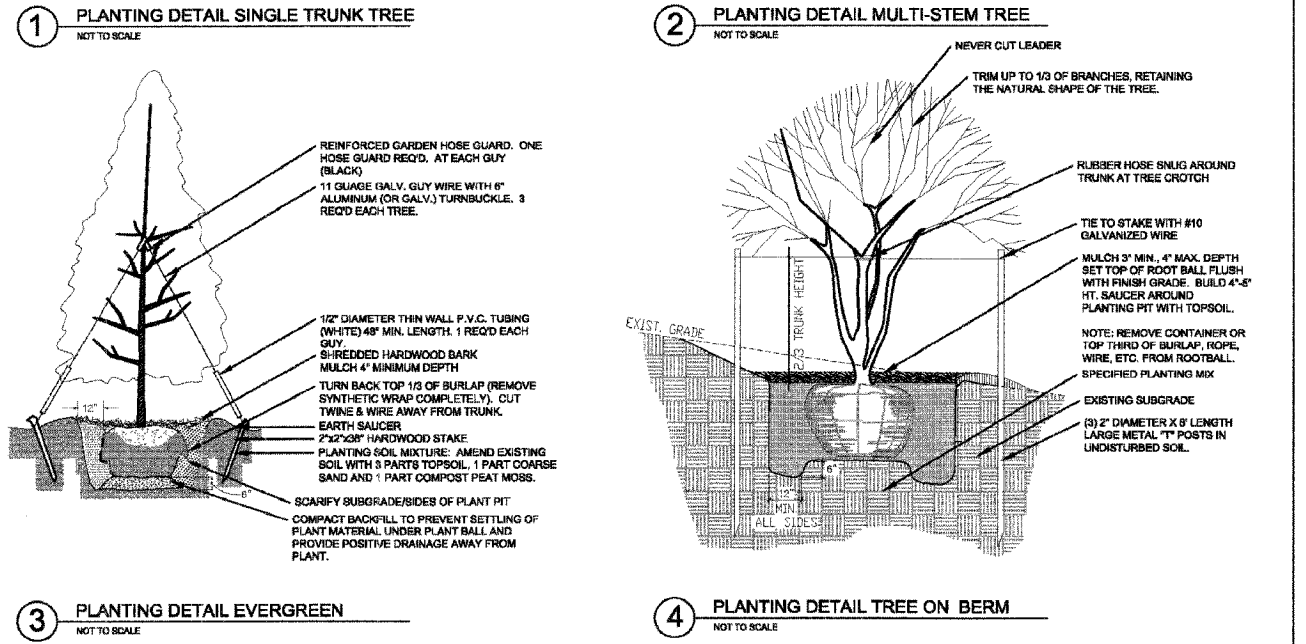
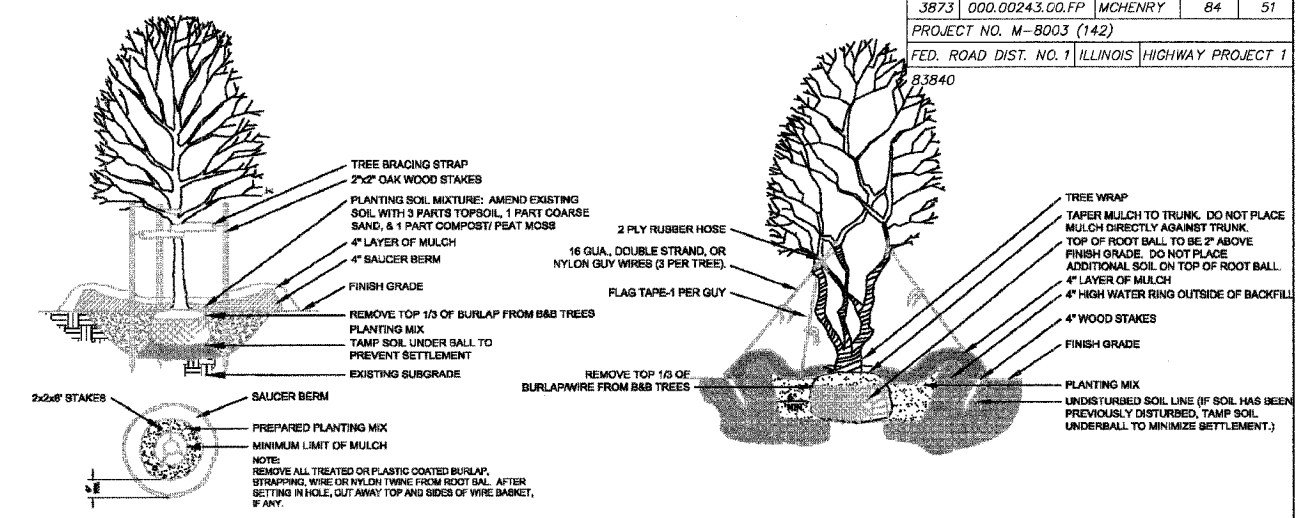
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	000.00243.00.FP	MCHENRY	84	51
PROJECT NO. M-8003 (142)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1				
83840				

### SHADE TREES

PLANTING SCHEDULE						
LEGEND	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE COND	REMARKS
	ACPL	10	<i>Acer platanoides</i>	Norway Maple	2.5" cal B & B	Deciduous
	ACR	10	<i>Acer rubrum</i>	Red Maple	2.5" cal B & B	Deciduous
	FRAM	1	<i>Fraxinus americana</i>	White Ash	2.5" cal B & B	Deciduous
	GLTR	11	<i>Gleditsia tricanthos</i>	Honey Locust	2.5" cal B & B	Deciduous
	TICC	10	<i>Tilia cordata</i> 'Greenspire'	Littleleaf Linden	2.5" cal B & B	Deciduous

### LANDSCAPE PLANTING NOTES

- Existing Conditions:** The Landscape Contractor shall be responsible for visiting the site prior to submitting Bid Proposal, to become familiar with all conditions affecting the proposed work. The Landscape Contractor shall identify and review all underground utility locations prior to commencing work and shall exercise extreme caution when working close to utilities, and shall notify the Owner's Representative of apparent conflicts with construction and utilities so that adjustments can be planned prior to installation.
- Layout, Grading and soils:** The Landscape Contractor shall be responsible for accurately laying out the plant by scaling the Drawings. Layout shall be painted or staked on the ground for review and approval of Owner's representative prior to excavation.
- Weed Control:** Prior to preparing lawn areas and plant beds, eradicate all weeds, briars and vines with a post-emergent herbicide applied by licensed personnel following manufacturer's recommendations and taking all necessary precautions.
- GRASS SEEDING AND PIT-PLANTED AREAS:** Limits of Planting Areas: Limits of grass seeding and pit-planted areas shown on the Drawings are schematic and not to be construed to be precise. The Landscape Contractor and Owner's Representative shall review the limits of seeding, and pit-planting prior to commencing installation. Refer to Civil Engineering plans for seeding notes and specifications.
- MULCH:** Following planting, mulch basins of pit-planted shrubs and trees with 3" shredded hard wood mulch.
- Plants:** All plants shall be nursery grown, Grade 1 plants meeting Nurseryman Association Standards, typical in shape and size for species. Plants shall not be root-bound nor loose in their containers. Handle all plants with care in transporting, planting and maintenance until inspection and final acceptance. Planting pits for 1, 3 and 5 gallon shrubs shall be at least 8" larger in diameter than the container size. Larger container sizes and B&B plants shall be planted in pits at least 12" larger in diameter than the ball size. Plants shall be installed to present their best side facing the viewer. Use total quantities of plants indicated. Owner's representative shall have final approval of plant layout. All plant materials shall be delivered to the site in their original nursery containers with a minimum of one plant from each species tagged by the nursery indicating genus, species and cultivar (if applicable). Plants must be approved by the Owner's Representative prior to installation. No plant substitutions will be allowed without prior approval by Owner's Representative. **PROPOSED SUBSTITUTIONS MUST BE NOTED IN BID DOCUMENTS FOR CONSIDERATION DURING CONSTRUCTION.** Remove all treated or coated burlap, strapping wire or nylon twine from root ball. After setting plant remove the top and cut the sides of wire baskets.
- Staking:** All trees are to be staked according to Drawing Details. No wire or rope is to come into direct contact with tree bark. Remove all guying and stakes after one growing season.
- Warranty:** Provide a one-year replacement warranty for all plant materials. Warranty shall cover plants which have died or partially died (thereby ruining their natural shape), but shall not include damage by vandalism, browsing, hail, abnormal freezes, drought or negligence by the Owner. The Warranty is intended to cover Contractor negligence, infestations, disease and damage or shock to plants. Plants replaced under Warranty will be warranted for one year following replacement.



### ORNAMENTAL TREES

PLANTING SCHEDULE						
LEGEND	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE COND	REMARKS
	ACG	32	<i>Acer glabrum</i>	Amur Maple	6" HL B & B	Deciduous
	AMGR	49	<i>Amelanchier grandiflora</i>	Apple Serviceberry	6" HL B & B	Deciduous
	CECAR	14	<i>Cercis canadensis</i>	Redbud	6" HL B & B	Evergreen
	COAL	2	<i>Cornus alternifolia</i>	Pagoda Dogwood	6" HL B & B	Deciduous
	ORCR	30	<i>Cotoneaster integerrimus</i>	Thornless Cockspur Hawthorn	6" HL B & B	Deciduous
	ORVI	10	<i>Cotoneaster vitosus</i> 'Winter King'	Hawthorn Winter King	6" HL B & B	Deciduous
	MAGS	35	<i>Magnolia x soulangeana</i>	Saucer Magnolia	6" HL B & B	Deciduous 6"-10" Fls.
	MAPR	3	<i>Malus 'prairifire'</i>	Prairie Crabapple	6" HL B & B	Deciduous Pink Flowers
	MASP	37	<i>Malus astragalifolia</i>	Cornish Crabapple	6" HL B & B	Deciduous

### EVERGREEN TREES

PLANTING SCHEDULE						
LEGEND	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE COND	REMARKS
	ABCOB	29	<i>Abies concolor</i>	White Fir	6" HL B & B	Evergreen
	ABCOB	55	<i>Abies concolor</i>	White Fir	6" HL B & B	Evergreen
	PIPU6	18	<i>Picea pungens</i>	Colorado Blue Spruce	6" HL B & B	Evergreen
	PIPU8	2	<i>Picea pungens</i>	Colorado Blue Spruce	6" HL B & B	Evergreen
	PINN6	10	<i>Pinus nigra</i>	Austrian Pine	6" HL B & B	Evergreen
	PINN8	31	<i>Pinus nigra</i>	Austrian Pine	6" HL B & B	Evergreen
	PIAB6	7	<i>Picea abies</i>	Norway Spruce	6" HL B & B	Evergreen
	PIAB8	6	<i>Picea abies</i>	Norway Spruce	6" HL B & B	Evergreen
	PIGL8	34	<i>Picea glauca</i>	White Spruce	6" HL B & B	Evergreen
	PIGL8	22	<i>Picea glauca</i>	White Spruce	6" HL B & B	Evergreen

**SEC Planning Consultants**

PLANNING  
LANDSCAPE ARCHITECTURE  
COMMUNITY BRANDING

12357 Rida Trace Parkway, Suite A205  
Austin, TX 78727  
T 512.266.7963  
F 512.266.7793  
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Email: info@secplanning.com

CIVIL ENGINEER  
South Engineering Consultants, Inc. MCHENRY, IL

FOR REVIEW ONLY  
NOT FOR CONSTRUCTION

**ACKMAN ROAD EXTENSION  
LANDSCAPE BUFFER PLANS**

McHenry County Division of Transportation  
MCHENRY COUNTY, ILLINOIS

Drawing File Name: T:\2003 Job\030210-MCHD\files\submital set\1.SET.dwg

Revisions:

1.	
2.	
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12.	

Issue Date: 08-30-05

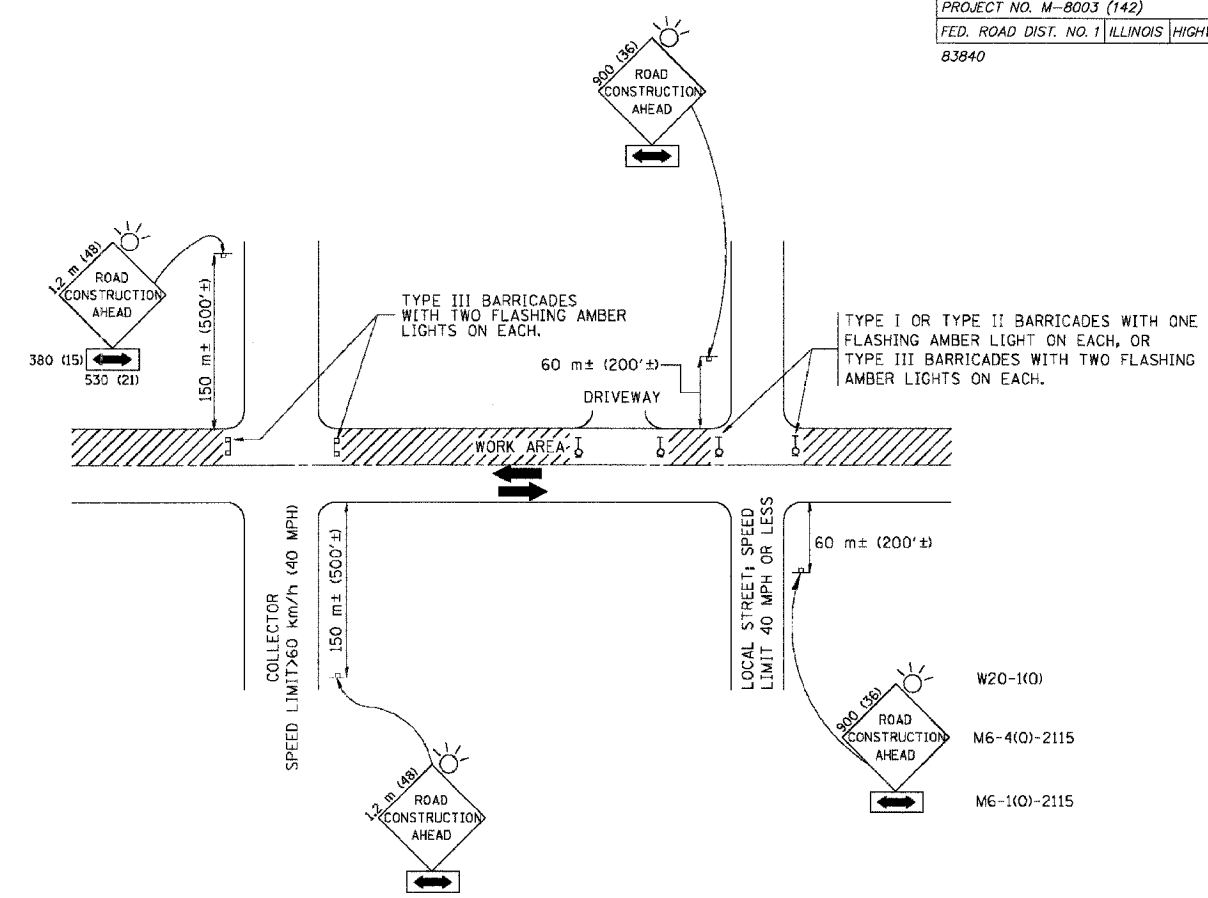
Drawn By: BY, BD Reviewed By: PS

Project No. 030210-MCHD

Sheet No. LP2



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PROJECT NO. M-8003 (142)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1 83840				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

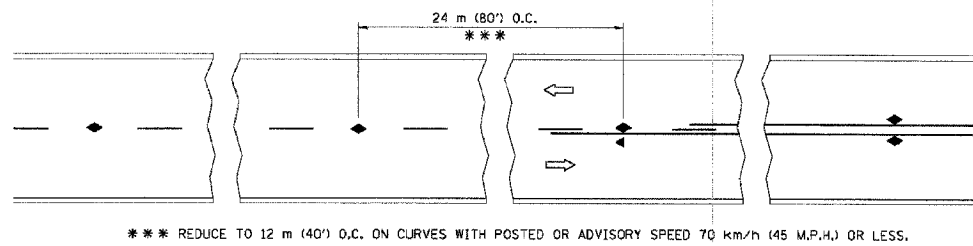
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

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

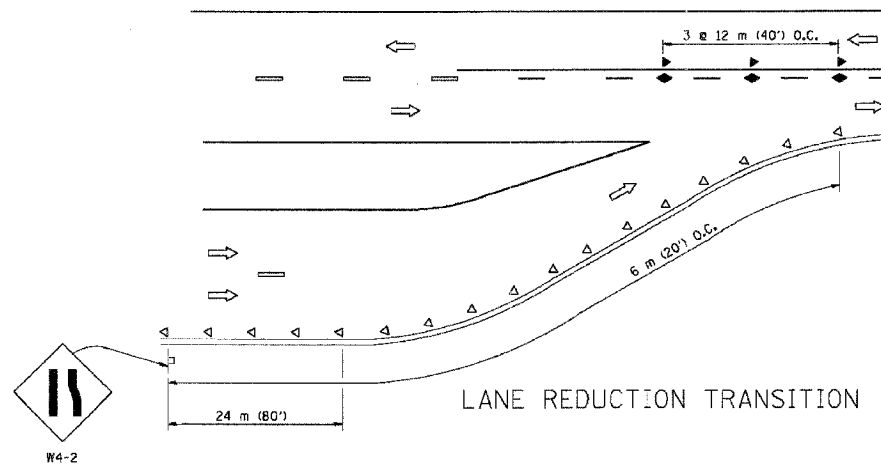
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 HORIZ. \_\_\_\_\_  
 DATE 10/18/2002

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 CHECKED BY \_\_\_\_\_

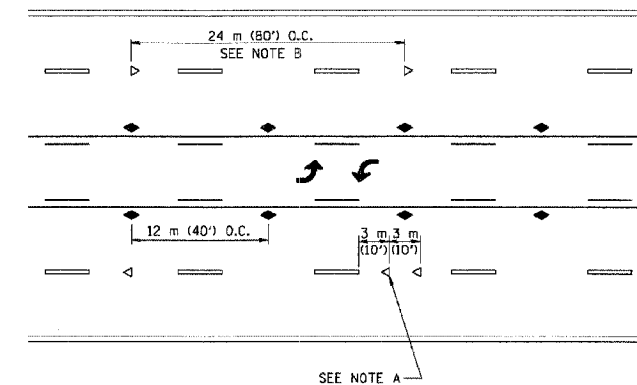
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PROJECT NO. M-8003 (142)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1				
83840				



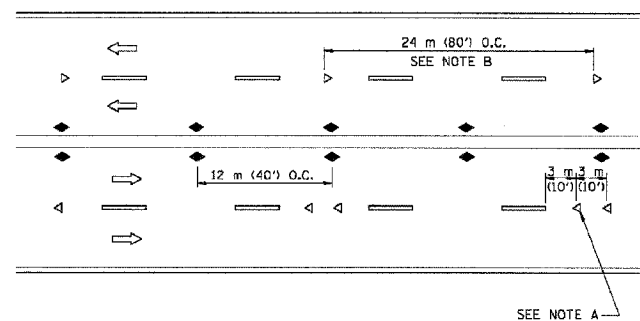
TWO-LANE/TWO-WAY



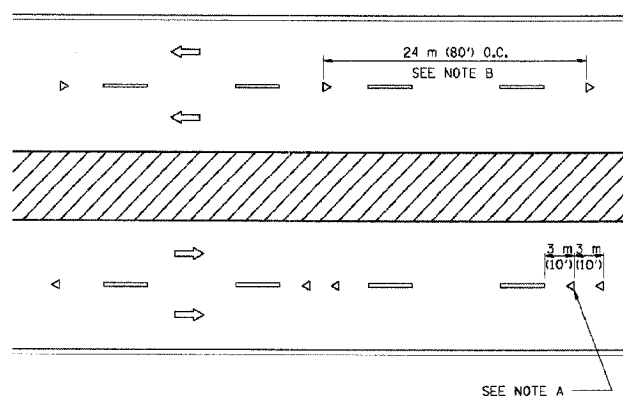
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

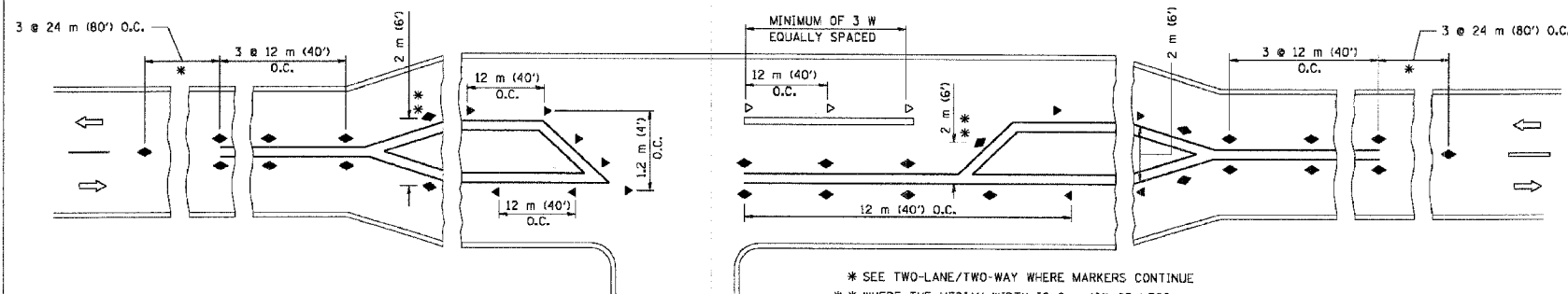
- B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

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

DESIGN NOTES

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



LEFT TURN

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS  
 (SNOW-PLOW RESISTANT)

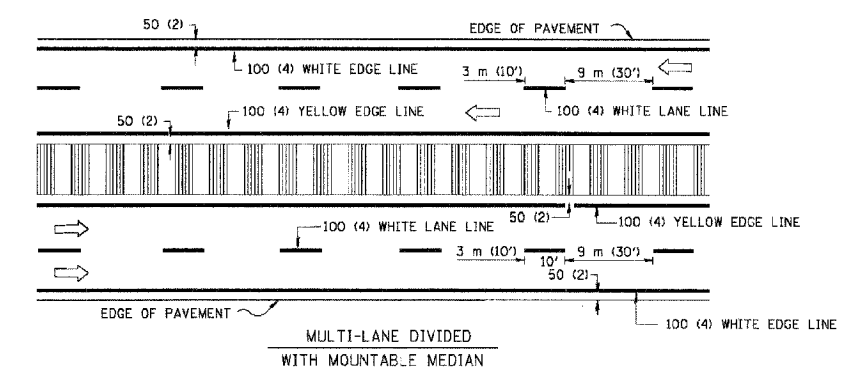
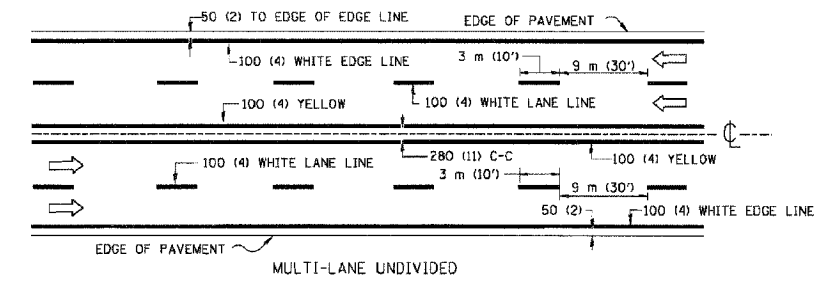
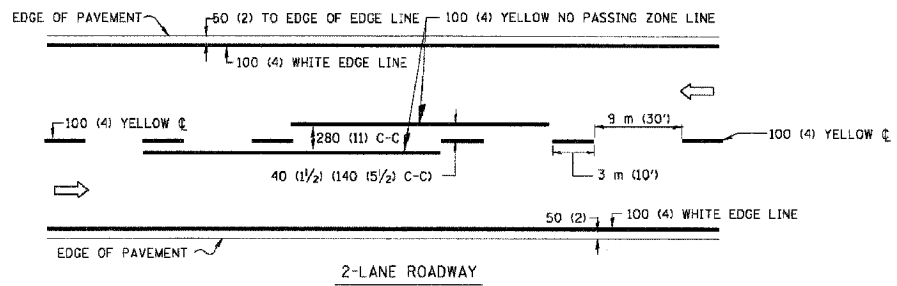
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

SCALE: NONE  
 DATE: 10/18/2002

DRAWN BY CADD  
 CHECKED BY TC-11

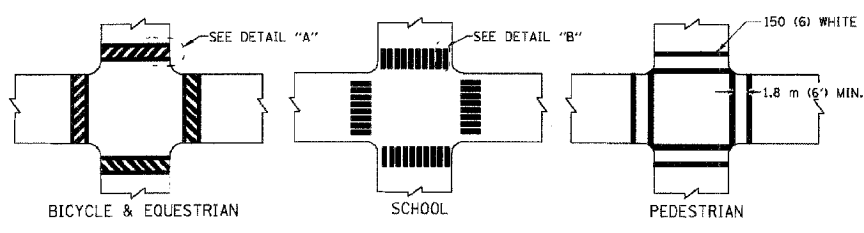
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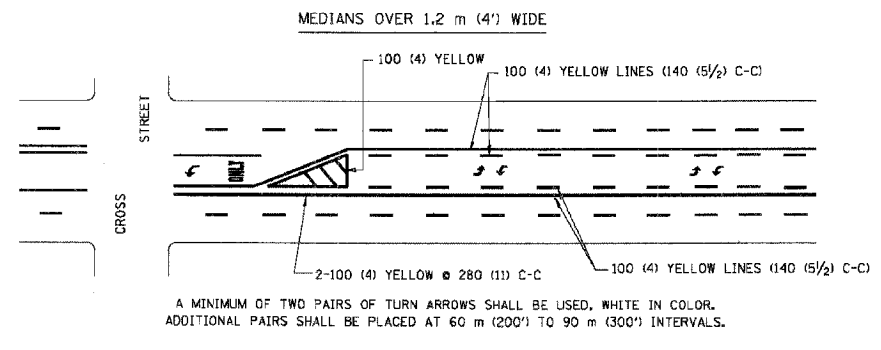
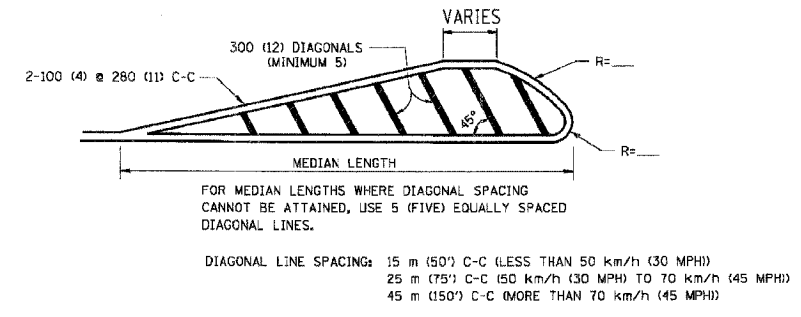
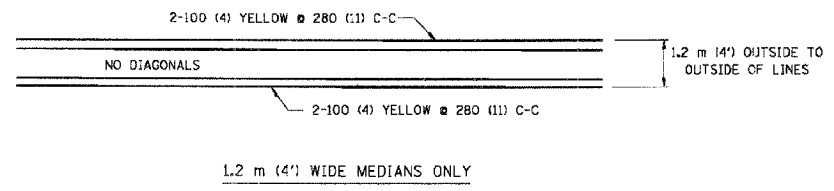


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

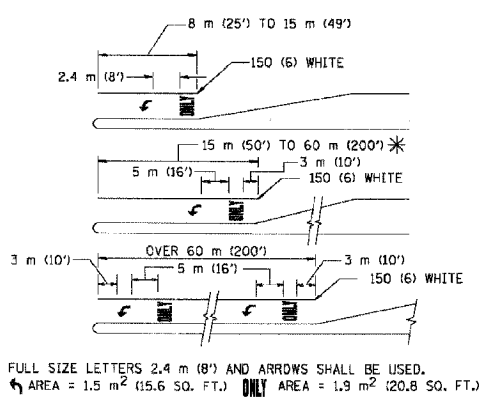
TYPICAL LANE AND EDGE LINE MARKING



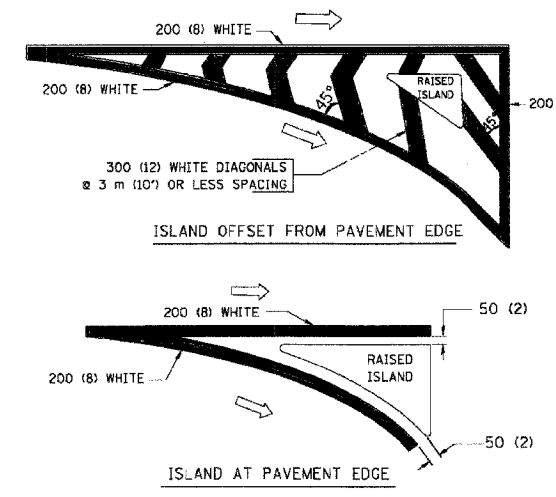
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINES; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m² (3.6 SQ. FT.) EACH "X"=5.0 m² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

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

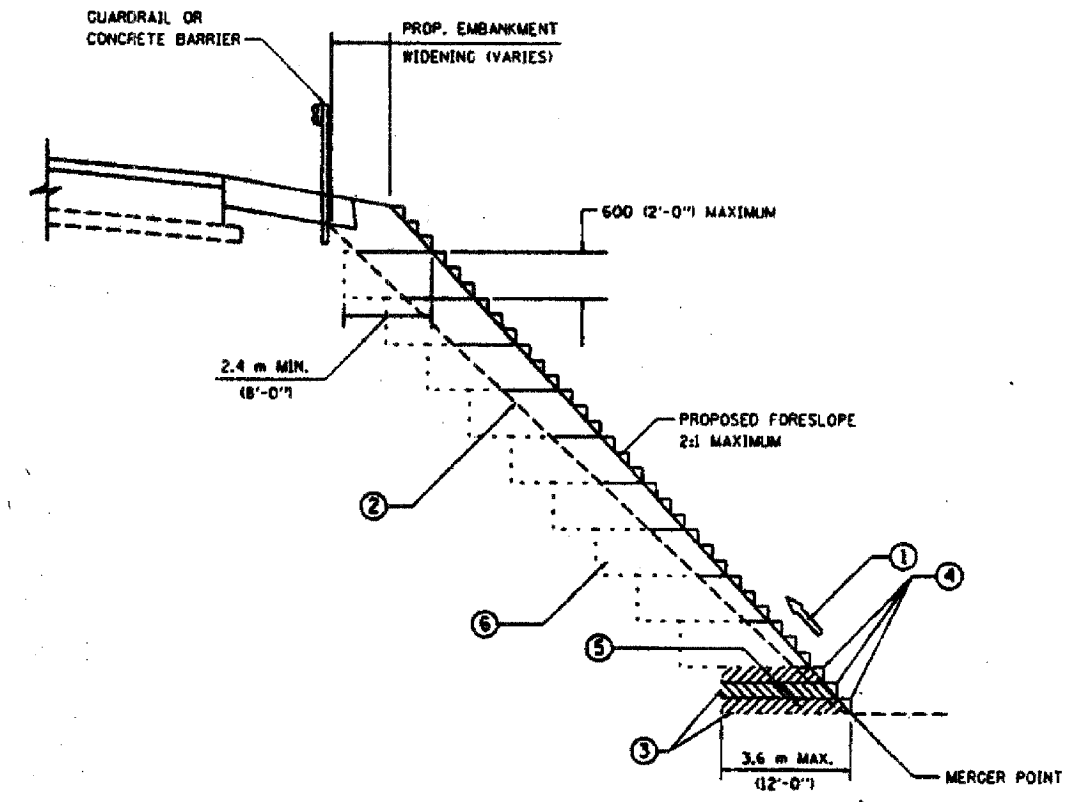
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

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

SCALE: NONE  
DATE 10/18/2002  
DRAWN BY CADD  
CHECKED BY  
TC-13

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	000.00243.00.FP	MCHENRY	84	55
PROJECT NO. M-8003 (142)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1				

83840



**TYPICAL BENCHING DETAIL FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 200 (8-INCH) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.06 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION (SPECIAL)". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

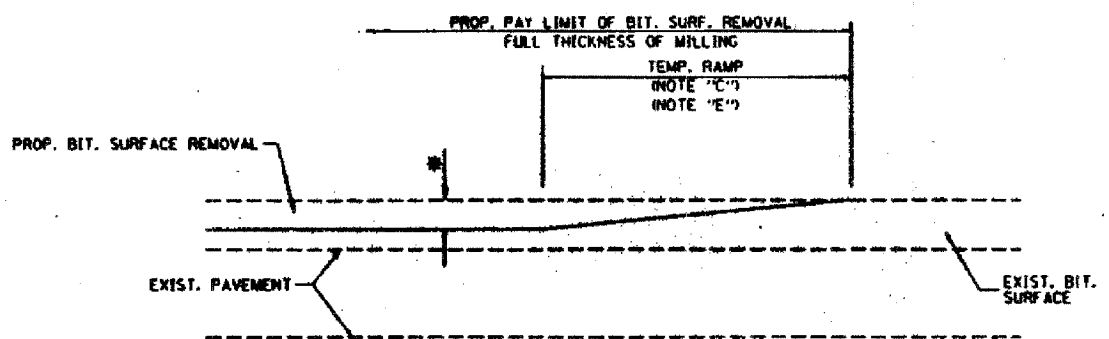
**BENCHING DETAIL FOR EMBANKMENT WIDENING**

REVISIONS	
NAME	DATE

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 DATE: 10/18/2002  
 DRAWN BY: CAD0  
 CHECKED BY: S.C.B.  
 80-51  
 REVISION DATE:

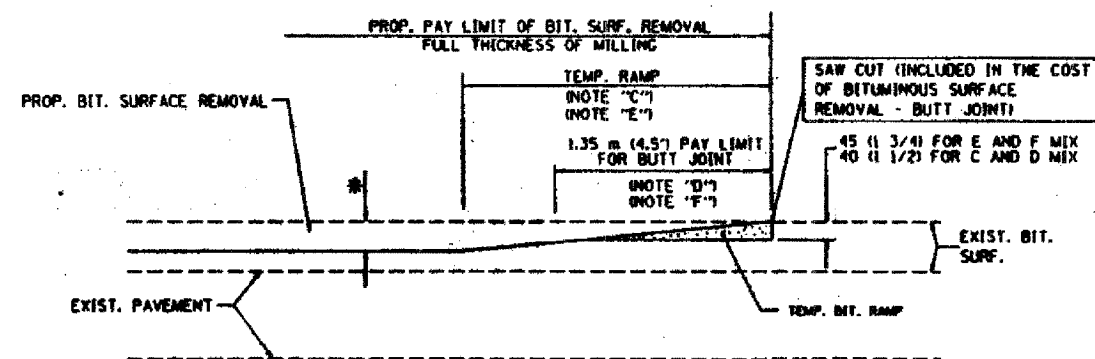
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3873	000.00243.00.FP	MCHEMRY	84	56
PROJECT NO. M-8003 (142)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1				

83840



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

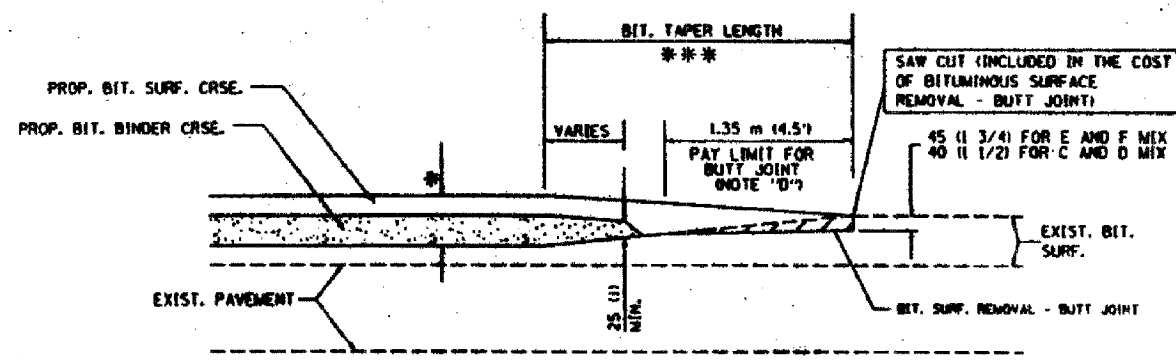
**OPTION 1**



**BITUMINOUS CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

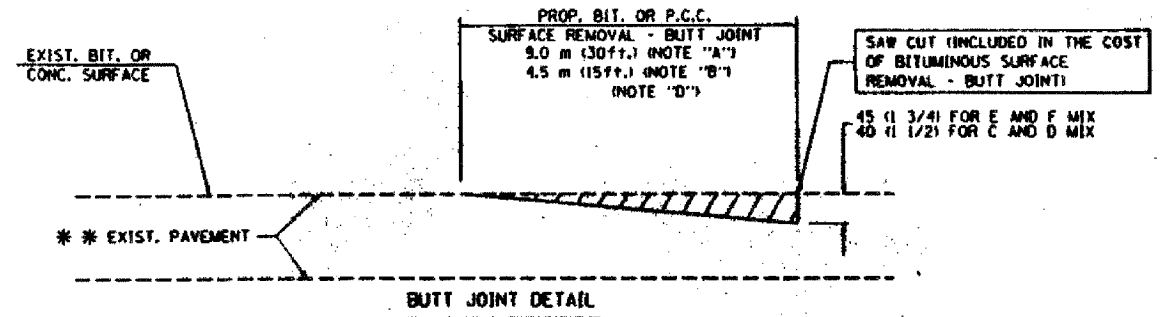
**OPTION 2**

**TYPICAL TEMPORARY RAMP**

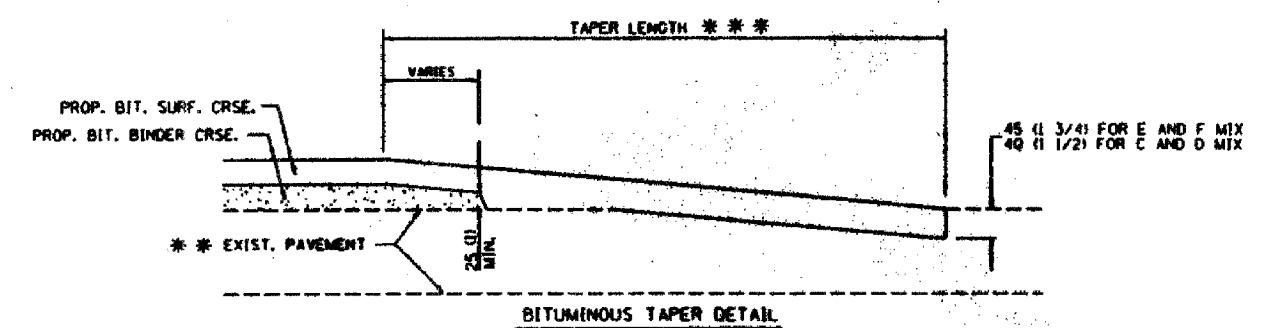


**BUTT JOINT AND BITUMINOUS TAPER**

**TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING**



**BUTT JOINT DETAIL**



**BITUMINOUS TAPER DETAIL**

**TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT.

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING BITUMINOUS SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 FT.) PER INCH OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT".
  - G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")  
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

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

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	8-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. COMEZ	04/06/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BUTT JOINT AND BITUMINOUS TAPER DETAILS**

SCALE: NONE  
DATE PLOTTED: 10/18/2002  
DRAWN BY  
CHECKED BY

NOTE: TYPE 4000-SPEC-VI-8036

**ACKMAN ROAD**

STA.	EARTH EXCAVATION (CUT)	UNSUITABLE OR UNSTABLE MATERIAL		EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTH WORK BALANCE WASTE(+) OR SHORTAGE (-)
		PGES EXCAVATION AREA	TOPSOIL STRIP 12"			
100+00.00	0	0	0	0	0	0
100+50.00	18	114	119	17	22	-6
101+00.00	81	172	219	89	27	42
101+50.00	112	113	165	95	13	82
102+00.00	109	109	142	83	15	77
102+50.00	145	109	180	123	23	100
103+00.00	224	54	177	190	37	154
103+50.00	387	0	187	329	22	307
104+00.00	578	0	198	578	1	575
104+50.00	1,179	0	212	1,002	0	1,002
105+00.00	1,817	0	223	1,544	0	1,544
105+50.00	2,234	0	229	1,899	0	1,899
106+00.00	2,222	0	227	1,889	0	1,889
106+50.00	1,902	0	219	1,617	0	1,617
107+00.00	1,439	74	210	1,223	0	1,223
107+50.00	831	145	202	707	2	704
108+00.00	313	138	168	266	16	249
108+50.00	98	133	113	82	57	25
109+00.00	22	125	85	19	127	-108
109+50.00	0	119	92	0	215	-215
110+00.00	2	119	83	2	183	-181
110+50.00	10	120	85	9	87	-78
111+00.00	35	119	84	30	53	-23
111+50.00	74	119	148	63	41	22
112+00.00	99	119	178	84	38	46
112+50.00	212	119	178	180	28	152
113+00.00	563	119	198	479	14	465
113+21.50	444	25	89	378	0	377
113+50.00	841	34	123	715	1	714
114+00.00	1,772	59	223	1,506	3	1,503
114+50.00	1,858	0	223	1,580	4	1,576
115+00.00	1,788	0	218	1,501	4	1,497
115+50.00	1,853	0	214	1,414	8	1,409
116+00.00	1,881	0	215	1,428	8	1,422
116+50.00	1,675	0	218	1,424	7	1,416
117+00.00	1,647	0	214	1,400	9	1,392
117+50.00	1,879	0	215	1,427	11	1,416
118+00.00	1,706	0	218	1,451	11	1,440
118+50.00	1,790	0	215	1,445	10	1,435
119+00.00	1,851	0	212	1,403	11	1,393
119+50.00	1,520	0	207	1,282	11	1,281
120+00.00	1,419	0	203	1,207	10	1,197
120+50.00	1,369	0	199	1,164	8	1,158
121+00.00	1,306	0	194	1,109	7	1,102
121+50.00	1,175	0	189	999	6	990
122+00.00	1,025	0	208	871	68	803
122+50.00	842	0	232	800	131	669
123+00.00	874	0	233	743	139	604
123+50.00	838	0	234	712	143	589
124+00.00	837	0	234	711	146	565
124+50.00	769	0	234	653	150	503
125+00.00	613	0	234	521	154	367
125+50.00	543	0	234	461	144	317
126+00.00	560	59	235	478	132	344
126+50.00	556	119	235	473	130	343
127+00.00	503	119	236	427	126	299
127+50.00	421	119	228	358	138	221
128+00.00	362	120	211	308	167	141
128+50.00	318	120	208	270	186	74
129+00.00	274	119	207	233	184	49
129+50.00	227	119	221	193	159	34
129+58.00	28	7	28	21	28	4
130+00.00	285	0	205	242	125	116
130+50.00	457	0	232	389	134	254
131+00.00	451	0	234	383	128	255
131+50.00	378	0	234	321	81	240
132+00.00	274	89	234	238	97	136
132+50.00	229	89	234	184	160	35
133+00.00	256	82	234	218	128	88
133+50.00	308	85	234	250	131	128
134+00.00	387	87	234	329	150	179
134+50.00	347	88	203	295	100	194
135+00.00	273	88	172	232	51	181
135+50.00	315	34	175	268	49	219
136+00.00	429	0	183	364	38	327
136+50.00	578	0	188	490	28	461
137+00.00	745	0	189	571	27	544
137+50.00	813	0	190	633	25	608
138+00.00	813	0	190	681	22	659
138+50.00	853	0	190	723	20	704
139+00.00	825	0	182	701	12	689
139+50.00	583	0	87	498	44	451
140+00.00	189	0	89	181	42	119
140+50.00	11	0	89	9	55	-45
141+00.00	11	0	129	9	113	-104
141+50.00	0	0	149	0	151	-151
142+00.00	0	0	88	0	92	-8
142+50.00	0	0	0	0	0	0
143+00.00	0	0	0	0	0	0
143+50.00	0	0	0	0	0	0
144+00.00	0	0	0	0	0	0
144+50.00	0	0	0	0	0	0
145+00.00	0	0	0	0	0	0
145+50.00	0	0	0	0	0	0
145+82.10	0	0	0	0	0	0
146+00.00	0	0	0	0	0	0
147+00.00	0	0	0	0	0	0
147+50.00	0	0	0	0	0	0
148+00.00	0	0	0	0	0	0
<b>TOTAL</b>	<b>61,029</b>	<b>3,789</b>	<b>15,986</b>	<b>51,875</b>	<b>5,488</b>	<b>46,386</b>

**LAKEWOOD ROAD**

STA.	EARTH EXCAVATION (CUT)	UNSUITABLE OR UNSTABLE MATERIAL		EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTH WORK BALANCE WASTE(+) OR SHORTAGE (-)
		PGES EXCAVATION AREA	TOPSOIL STRIP 12"			
309+50.00	0	0	0	0	0	0
310+00.00	0	0	0	0	0	0
310+50.00	0	0	0	0	0	0
310+93.63	0	0	0	0	0	0
311+00.00	0	0	0	0	0	0
311+50.00	0	0	0	0	0	0
312+00.00	0	0	0	0	0	0
312+50.00	0	0	41	0	52	52
313+00.00	6	0	76	5	91	86
313+50.00	14	0	69	12	64	52
314+00.00	12	0	54	10	177	187
314+50.00	51	0	34	43	223	180
315+00.00	47	0	13	40	71	31
315+50.00	62	0	25	52	8	-44
316+00.00	219	0	35	188	22	-164
316+50.00	237	0	18	201	17	-184
317+00.00	142	0	17	121	14	-107
317+50.00	107	0	19	91	27	-84
318+00.00	75	0	21	64	43	-22
318+50.00	52	0	24	45	57	12
319+00.00	35	0	27	30	68	38
319+50.00	14	0	15	12	37	26
320+00.00	0	5	13	0	19	19
320+50.00	2	9	26	2	27	25
321+00.00	7	8	27	6	18	13
321+50.00	12	5	21	10	21	11
321+64.99	3	0	9	3	9	6
<b>TOTAL</b>	<b>1,096</b>	<b>27</b>	<b>584</b>	<b>832</b>	<b>1,065</b>	<b>133</b>

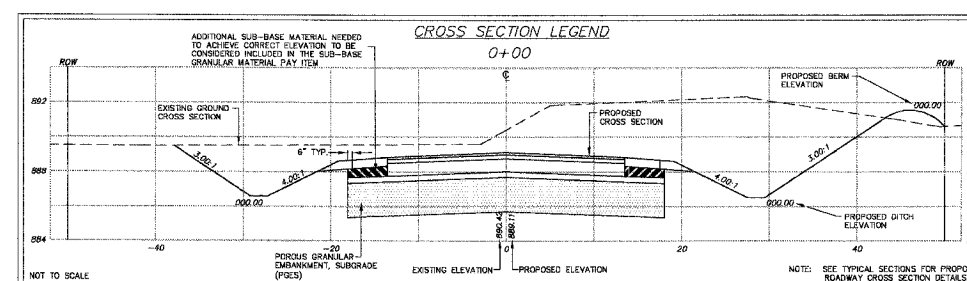
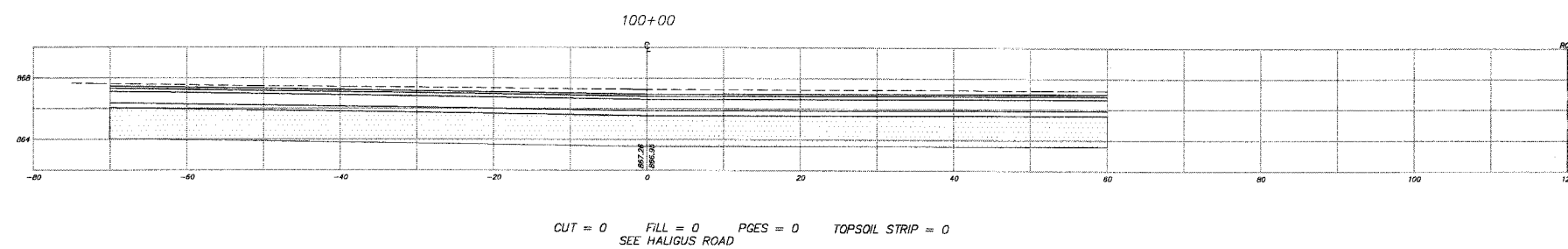
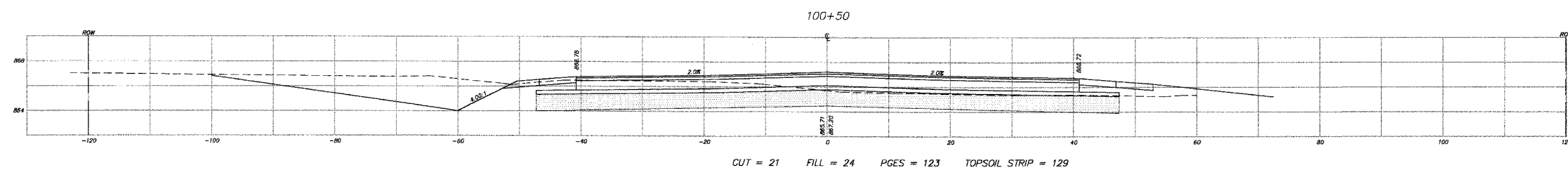
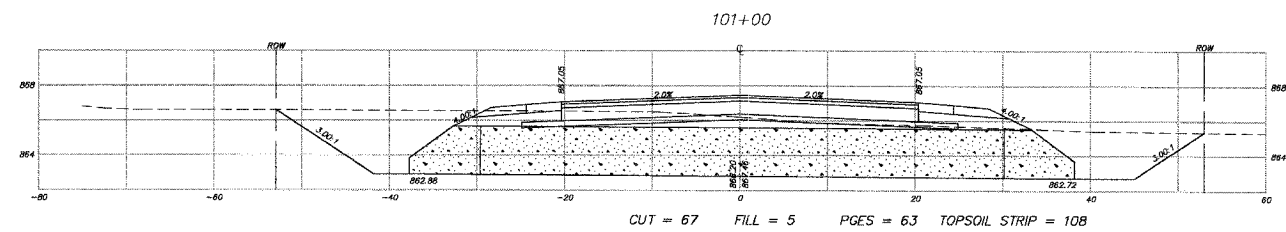
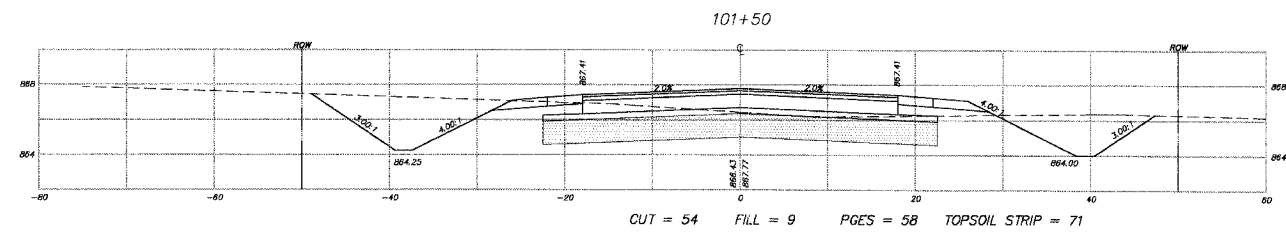
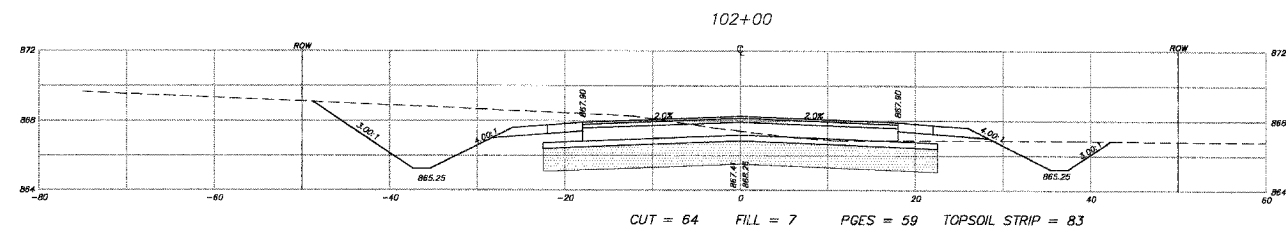
**HALIGUS ROAD**

STA.	EARTH EXCAVATION (CUT)	UNSUITABLE OR UNSTABLE MATERIAL		EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTH WORK BALANCE WASTE(+) OR SHORTAGE (-)
		PGES EXCAVATION AREA	TOPSOIL STRIP 12"			
198+09.97	0	0	0	0	0	0
198+50.00	0	0	57	0	39	-39
198+92.00	0	0	56	0	44	-44
199+00.00	0	0	13	0	7	-7
199+50.00	0	0	64	0	30	-30
200+00.00	0	0	74	0	54	-54
200+50.00	0	0	91	0	77	-77
200+86.00	0	0	48	0	40	-40
201+00.00	0	0	19	0	17	-17
201+50.00	0	0	87	0	68	-68
202+00.00	1	0	99	1	75	-73
202+39.00	11	0	67	10	51	-41
202+50.00	7	0	45	6	36	-30
203+00.00	0	21	111	0	89	-89
203+14.00	0	12	22	0	16	-16
203+50.00	0	32	36	0	29	-29
204+00.00	0	45	83	0	94	-94
204+50.00	0	46	94	0	177	-177
204+83.00	0	31	81	0	134	-134
205+00.00	0	16	38	0	69	-69
205+28.00	0	27	79	0	117	-117
205+50.00	0	19	65	0	84	-84
206+00.00	1	48	147	1	183	-181
206+50.00	3	48	132	3	153	-150
207+00.00	27	48	126	23	120	-97
207+50.00	46	83	129	38	106	-67
208+00.00	73	83	156	62	109	-47
208+50.00	73	87	156	62	147	-85
209+00.00	60	84	155	51	145	-95
209+50.00	53	79	172	45	106	-60
209+72.00	12	22	57	10	30	-18
210+00.00	22	31	56	16	31	-12
210+50.00	46	81	100	42	83	-21
211+00.00	88	88	97	56	48	10
211+50.00	82	88	84	53	18	37
212+00.00	50	45	86	43	20	23
212+50.00	70	41	80	60	30	30
213+00.00	95	35	81	81	18	63
213+43.00	147	29	79	125	8	117
213+50.00	31	5	11	27	1	26
214+00.00	218	33	111	185	11	174
214+50.00	177	29	108	150	20	131
215+00.00	111	13	91	84	28	68
215+50.00	79	0	85	87	38	29
216+00.00	68	0	77	59	40	19
216+50.00	50	0	47	43	28	17
216+68.28	12	0	14	10	7	3
<b>TOTAL</b>	<b>1,680</b>	<b>1,182</b>	<b>3,744</b>	<b>1,428</b>	<b>2,859</b>	<b>-1,431</b>

ROADWAY	EARTH EXCAVATION (CUT)	UNSUITABLE OR UNSTABLE MATERIAL		EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTH WORK BALANCE WASTE(+) OR SHORTAGE (-)
		PGES EXCAVATION AREA	TOPSOIL STRIP (CALCULATED DEPTH 12")			
		CU YDS	CU YDS			
ACKMAN ROAD	61,029	3,789	15,986	51,875	5,488	46,386
HALIGUS ROAD	1,680	1				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	58
STA.	100+00	TO STA.	102+00	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
7.	
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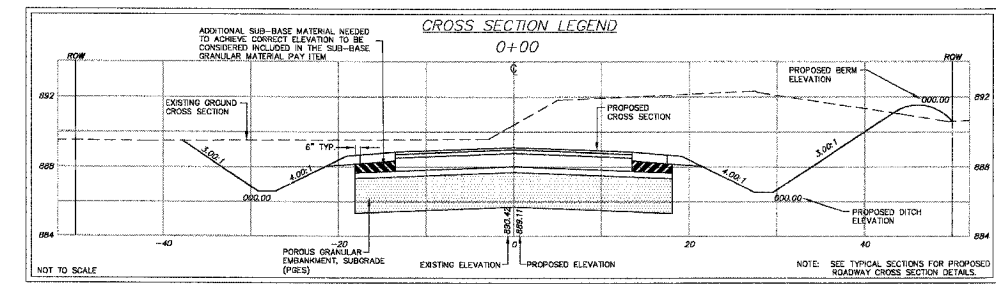
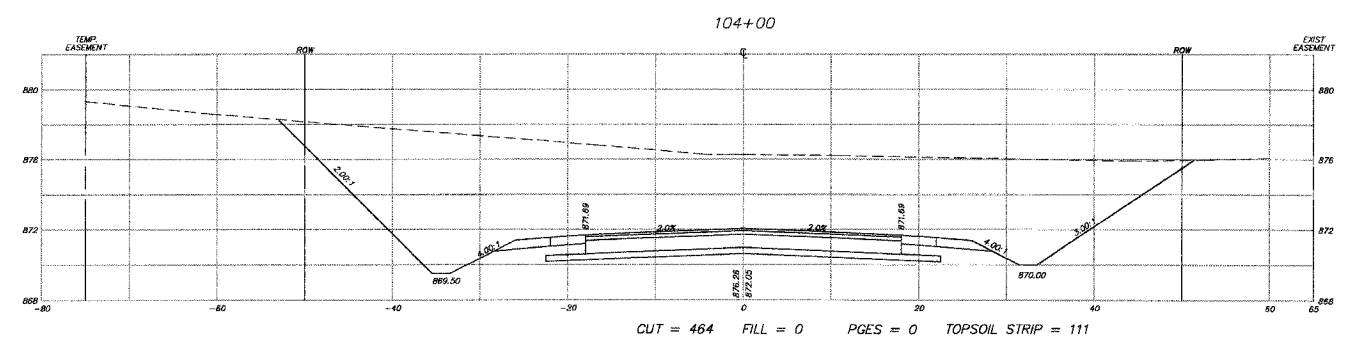
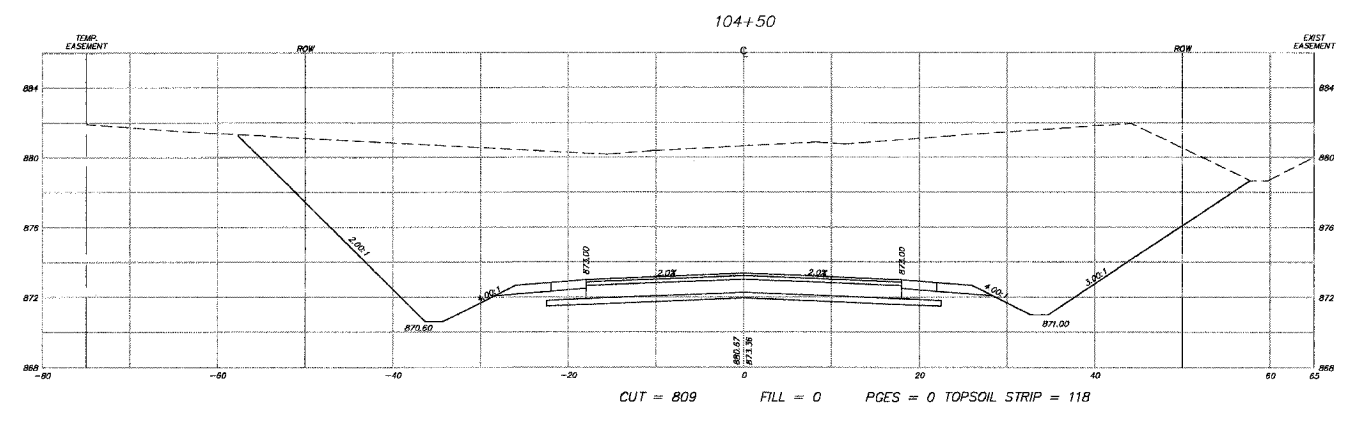
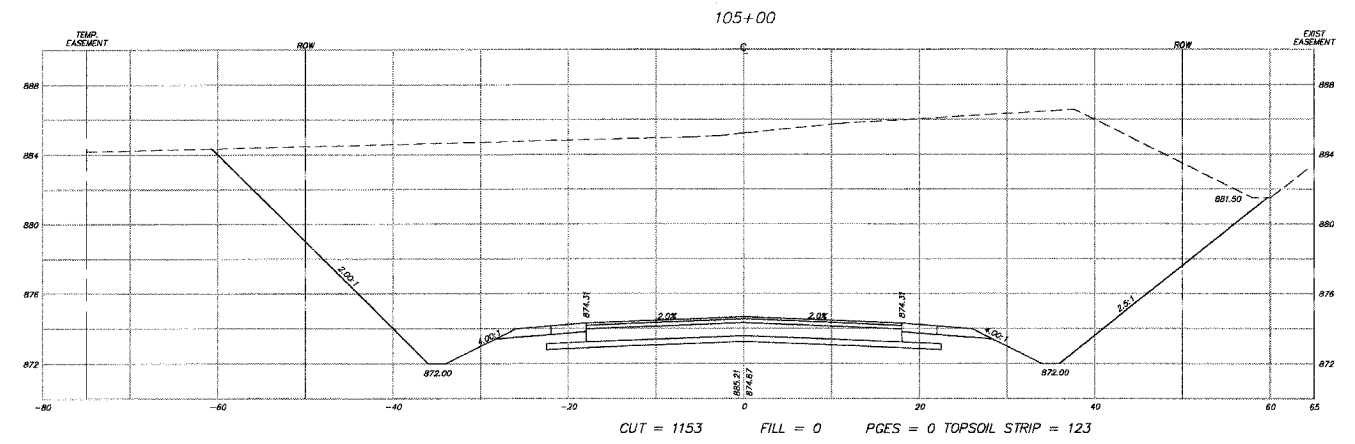
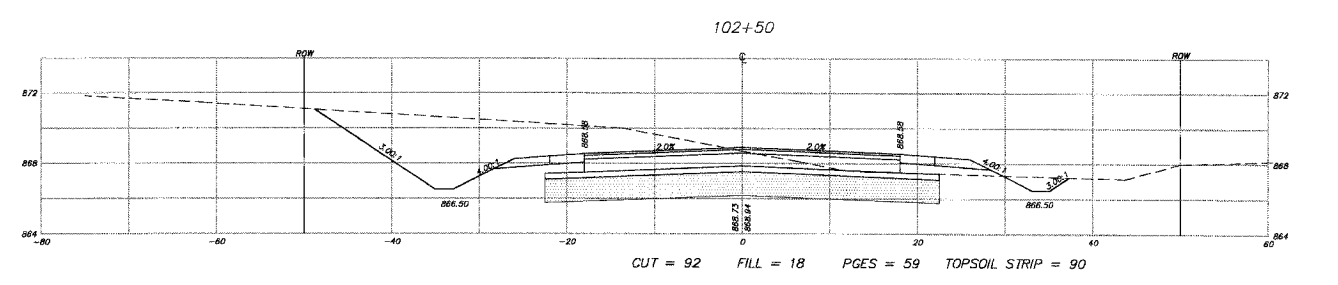
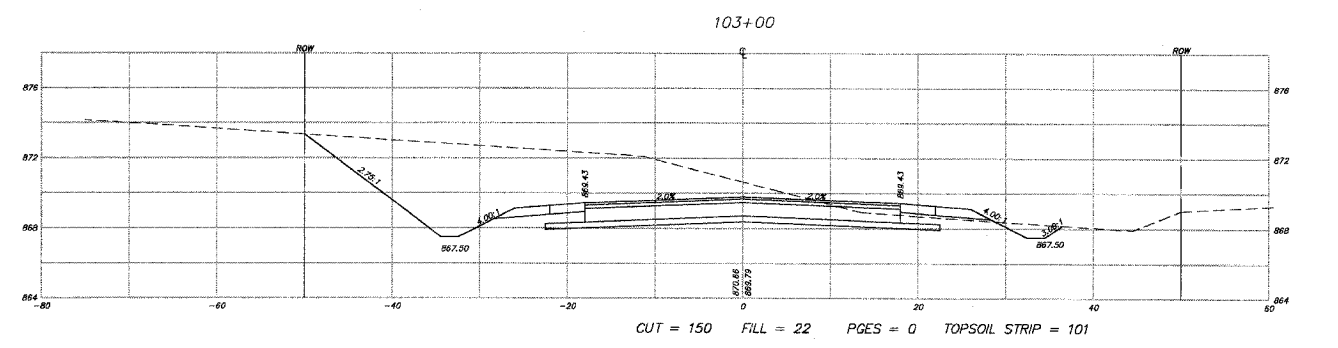
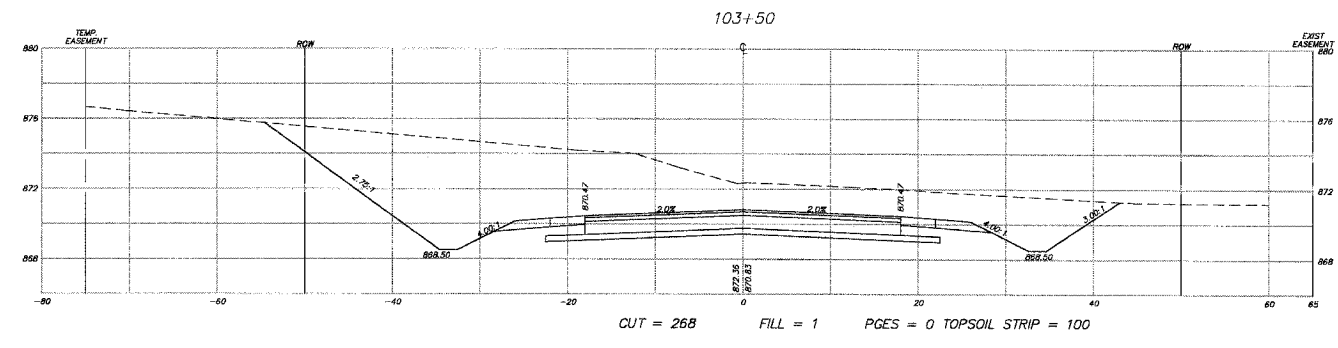
**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4800 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 TEL: 815-385-1778 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 • MCHENRY • HUNTERY • YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION  
 CROSS SECTIONS FOR  
 ACKMAN RD  
 SCALE: H:1"=10', V:1"=5'  
 DATE 10-05-2005 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: 030210acesackman-new.dwg  
 COMP. FILE:

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	59
STA.	102+50	TO STA.	105+00	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE: SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
7.	
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4800 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1778 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 \* MCHENRY \* MONTICELLO \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

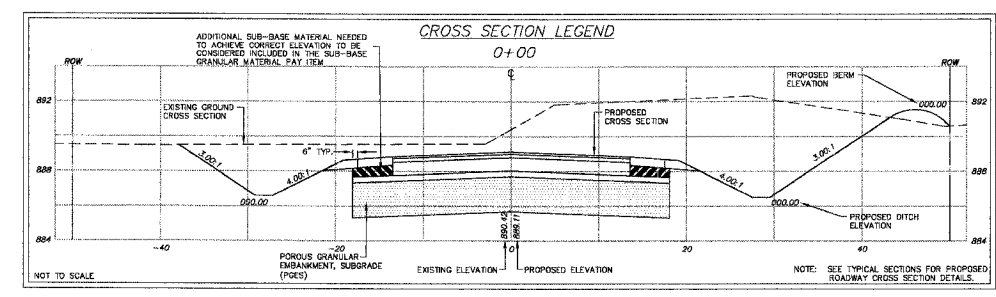
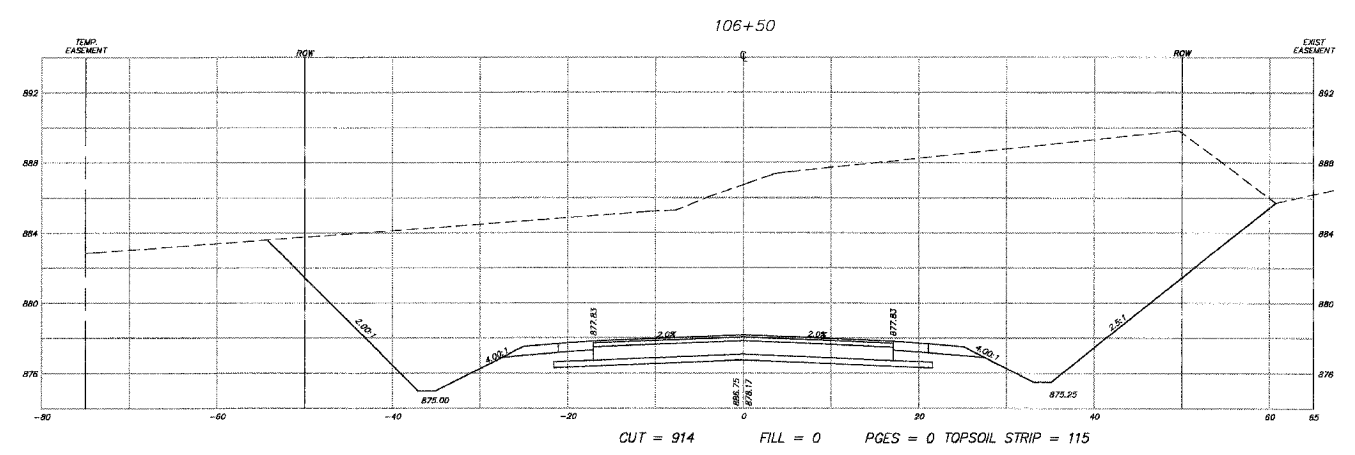
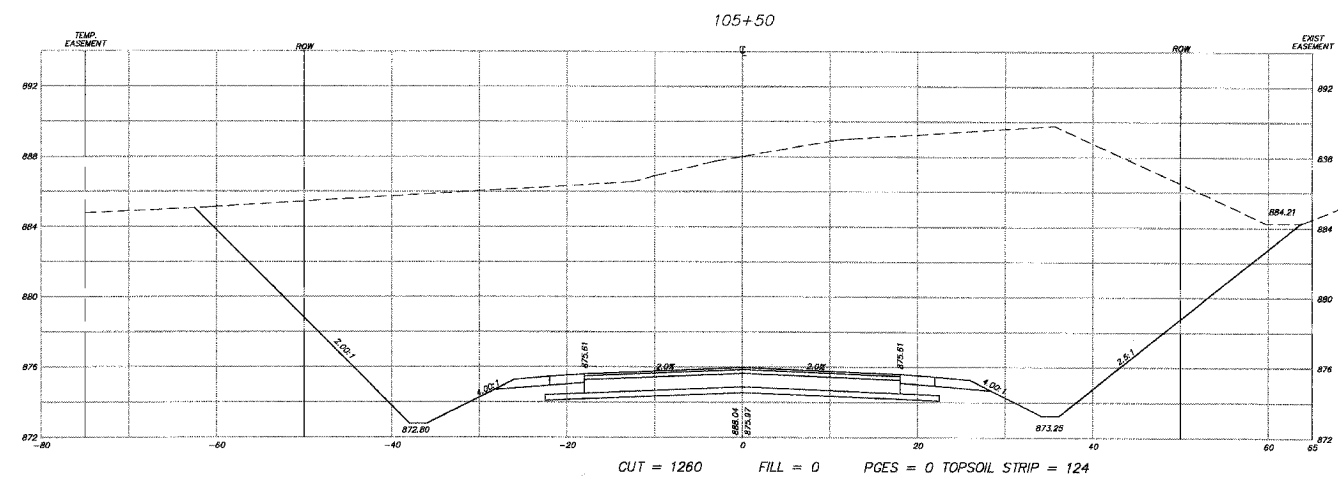
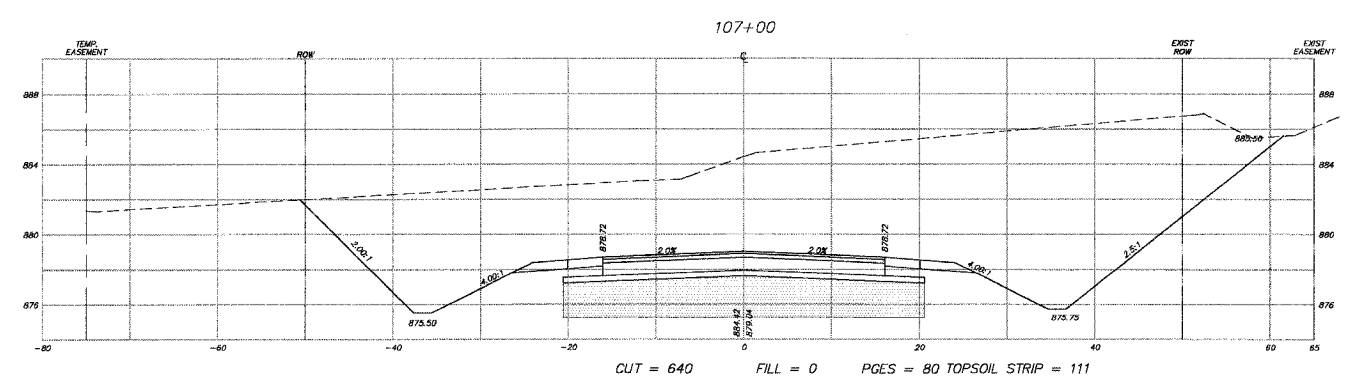
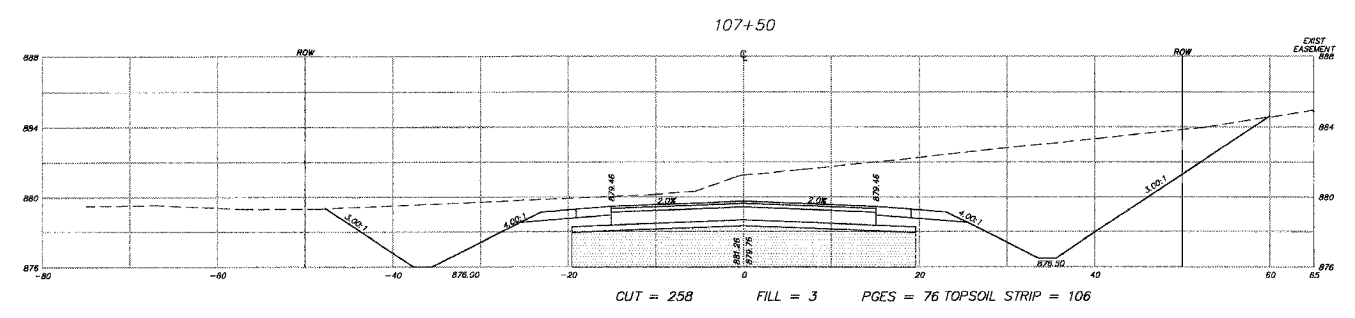
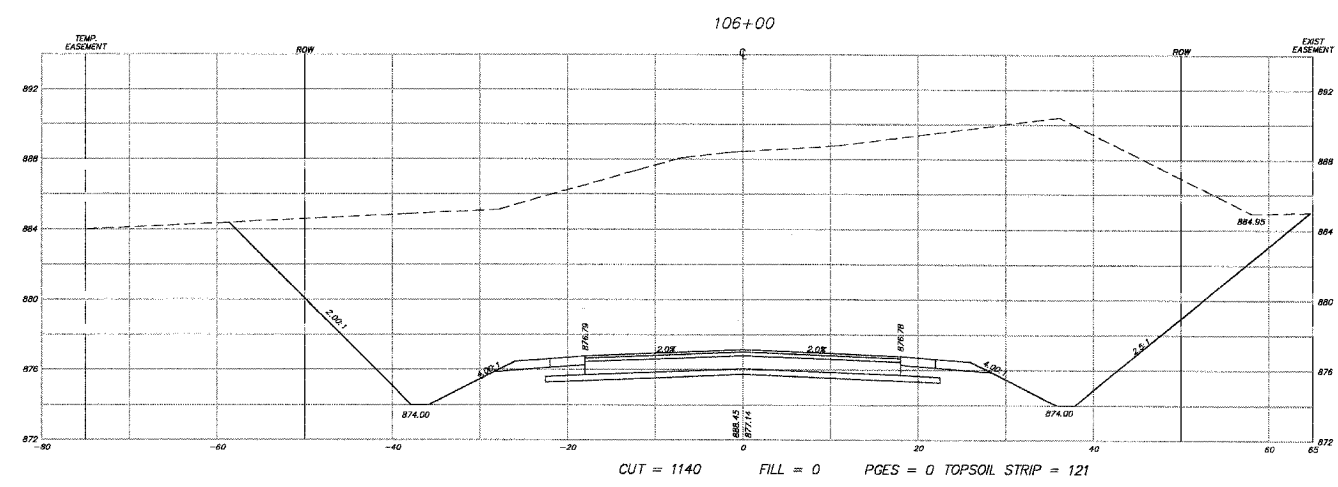
**CROSS SECTIONS FOR ACKMAN RD**

SCALE: H: 1"=10', V: 1"=5'  
 DATE 10-05-2005  
 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: 03021024300243-00-FP.dwg  
 COMP. FILE: 03021024300243-00-FP.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	60
STA. 105+50	TO STA. 107+50			
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
7.	
6.	
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-385-1770 FAX: 815-385-1781  
www.smithengineering.com E-MAIL: sec@smithengineering.com  
#MCHENRY #MUNDELL #YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**CROSS SECTIONS FOR**  
**ACKMAN RD**

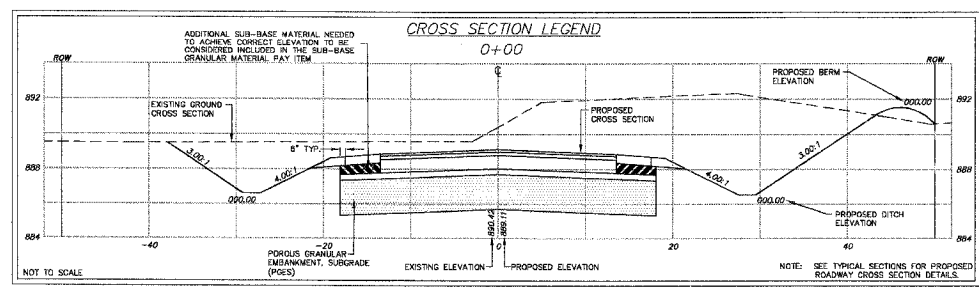
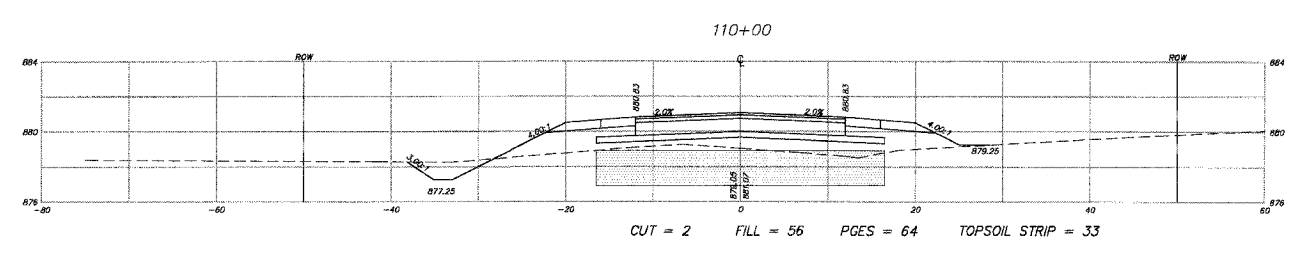
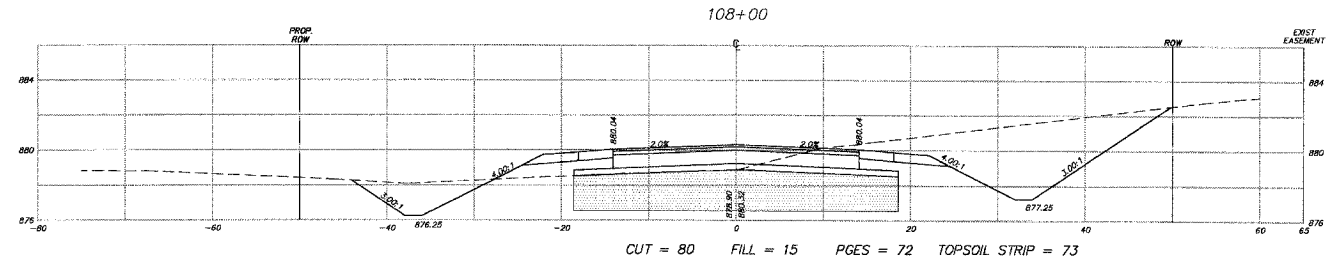
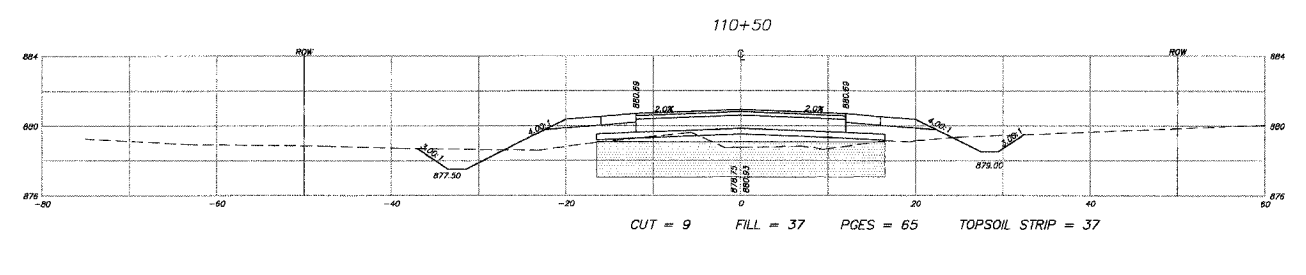
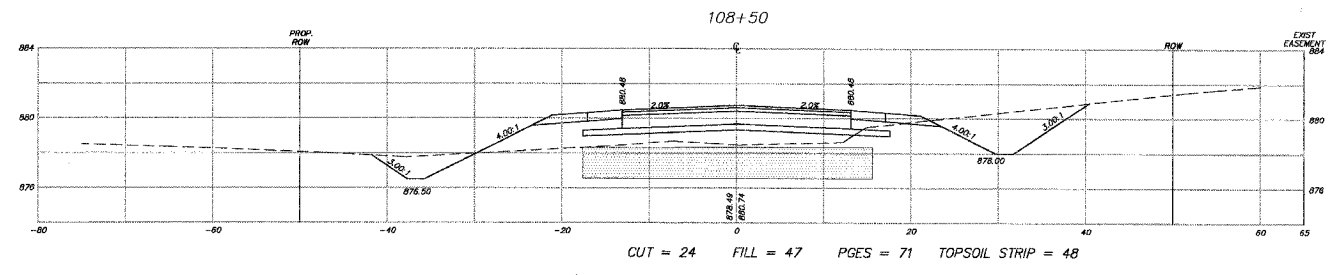
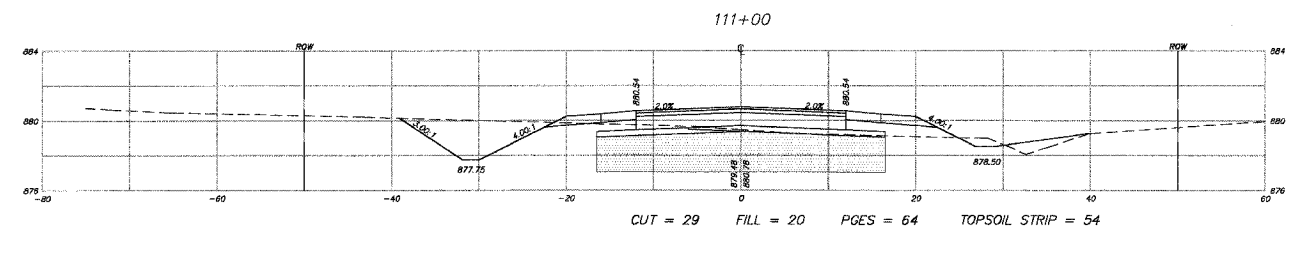
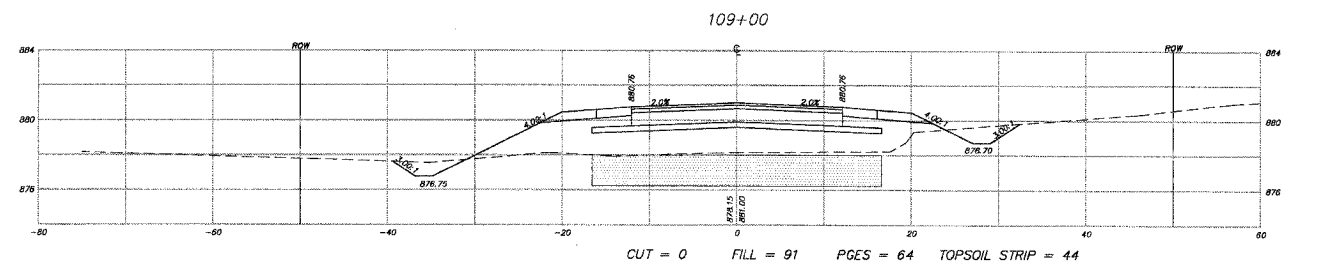
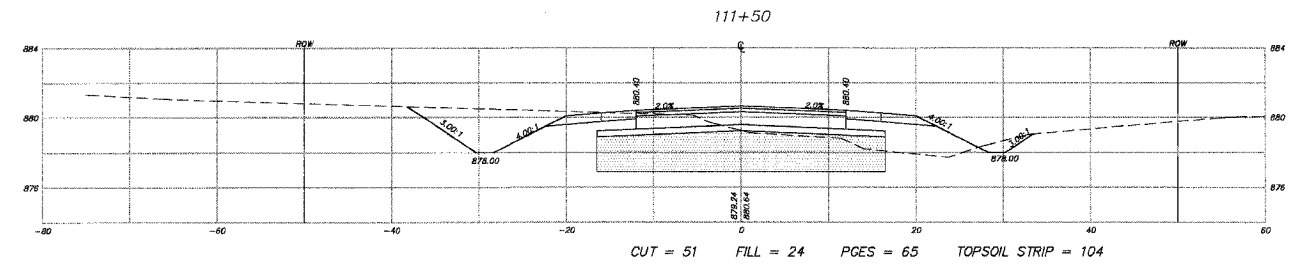
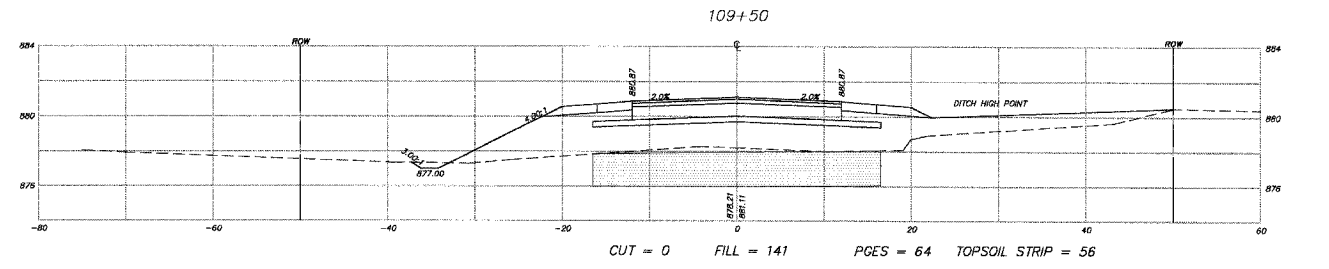
SCALE: H:1"=10', V:1"=5'  
DATE 10-05-2005  
DRAWN BY CJP  
CHECKED BY TEH

PLT FILE: 40  
CADD FILE: 030210.dwg  
CADD FILE: 030210.dwg



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	61
STA.	108+00	TO STA.	111+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
MCKINNEY, ILLINOIS 60050  
PH: 818-385-1778 FAX: 818-385-1781  
www.smithengineering.com E-MAIL: sec@smithengineering.com  
McHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

McHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

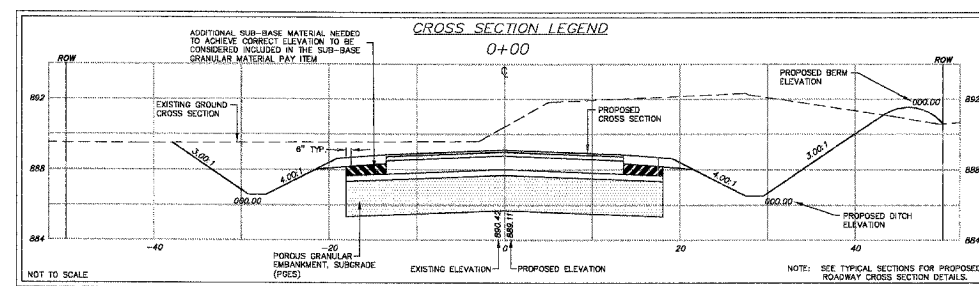
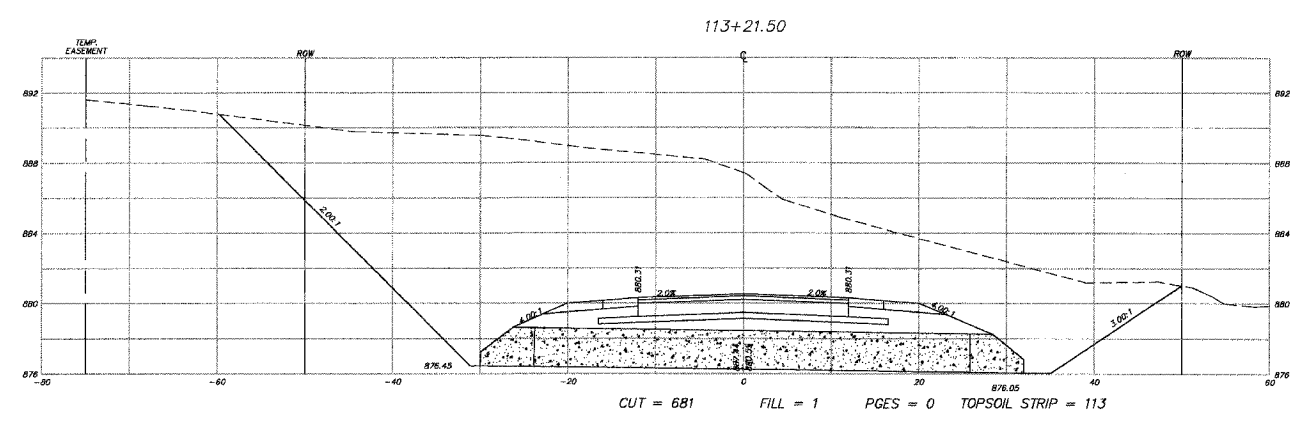
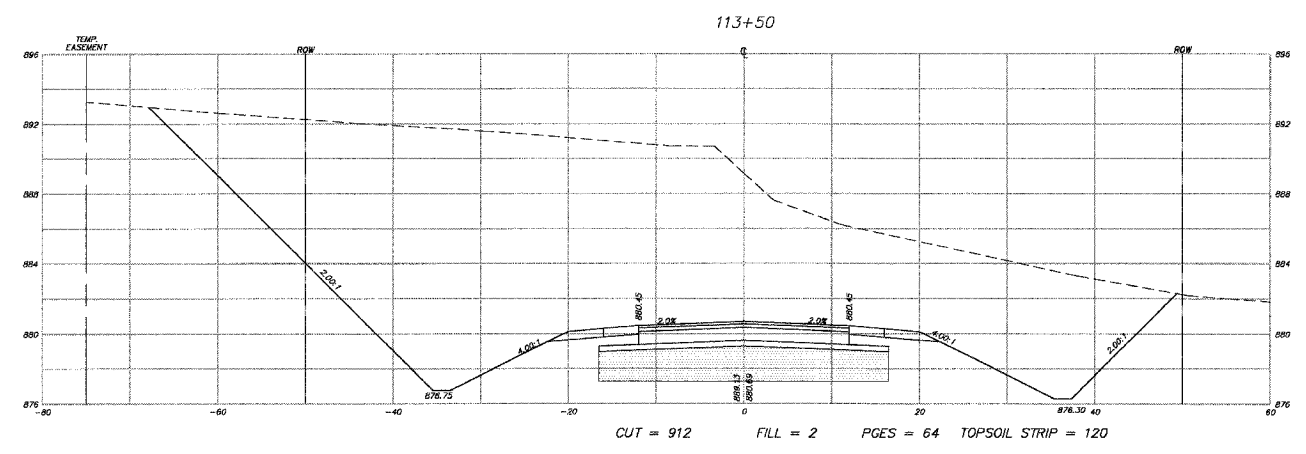
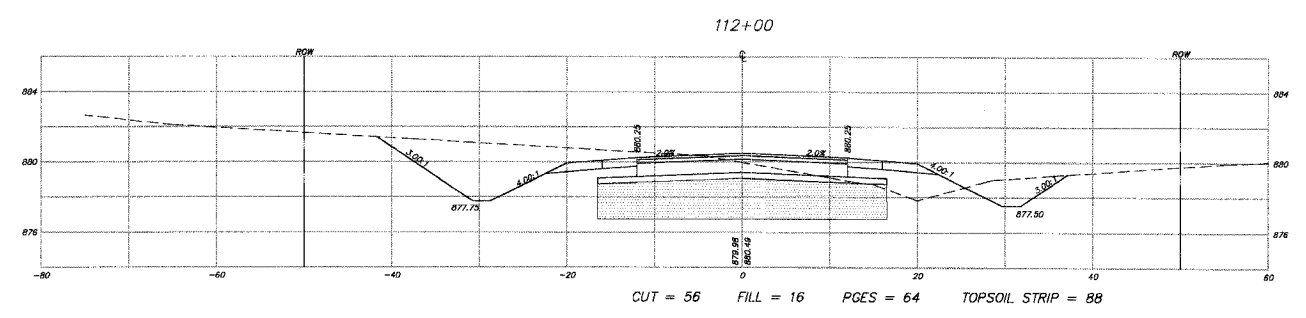
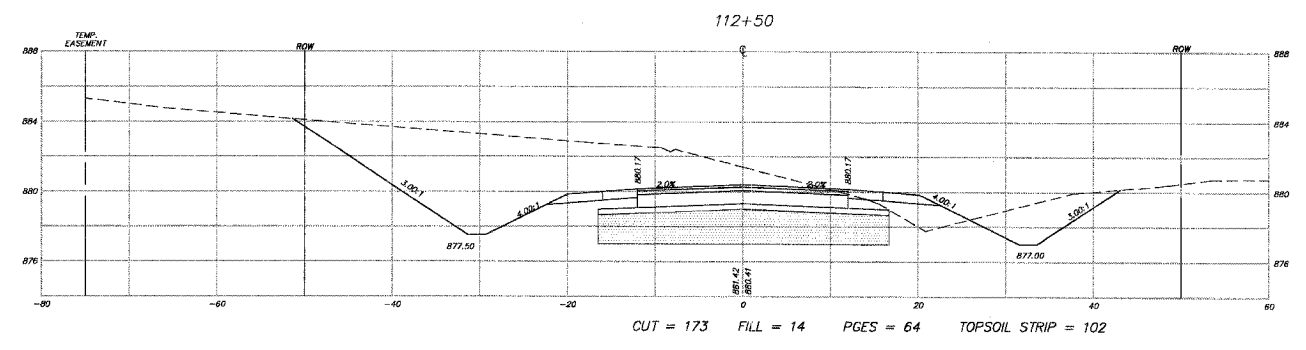
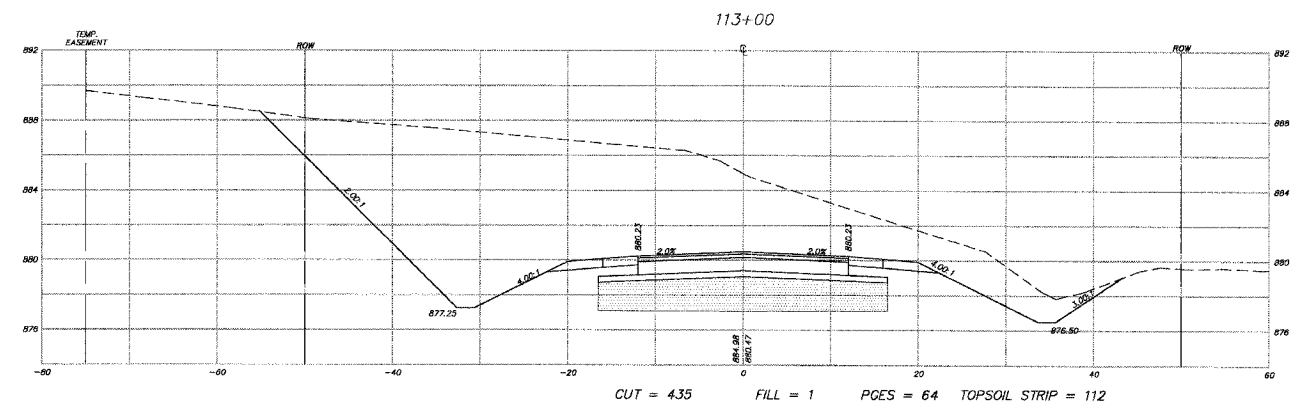
CROSS SECTIONS FOR  
ACKMAN RD

SCALE: H:1"=10', V:1"=5'  
DATE 10-05-2005  
DRAWN BY CJP  
CHECKED BY TEH

PLOT FILE: \\MCHENRY\CE\108-00\108-00-00243-00-FP\108-00-00243-00-FP.dwg  
MEMO: CE-108-00-00243-00-FP  
COMP. FILE: 108-00-00243-00-FP-108-00-00243-00-FP.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHEMRY	84	62
STA. 112+00	TO STA. 113+50			
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHEMRY, ILLINOIS 62056  
 PH: 815-385-1778 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 \* MCHEMRY \* MOUNTAIN VIEW \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

McHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION

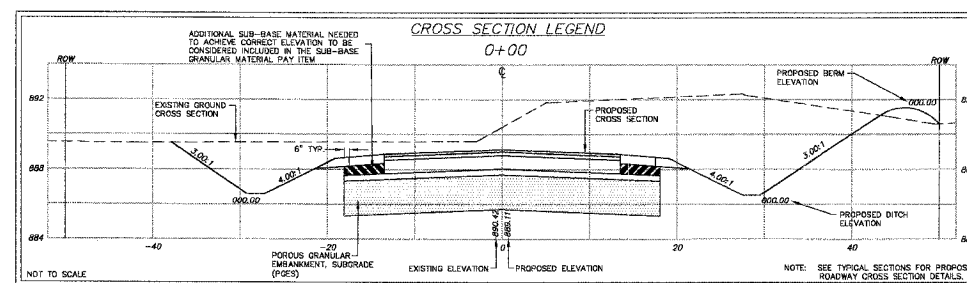
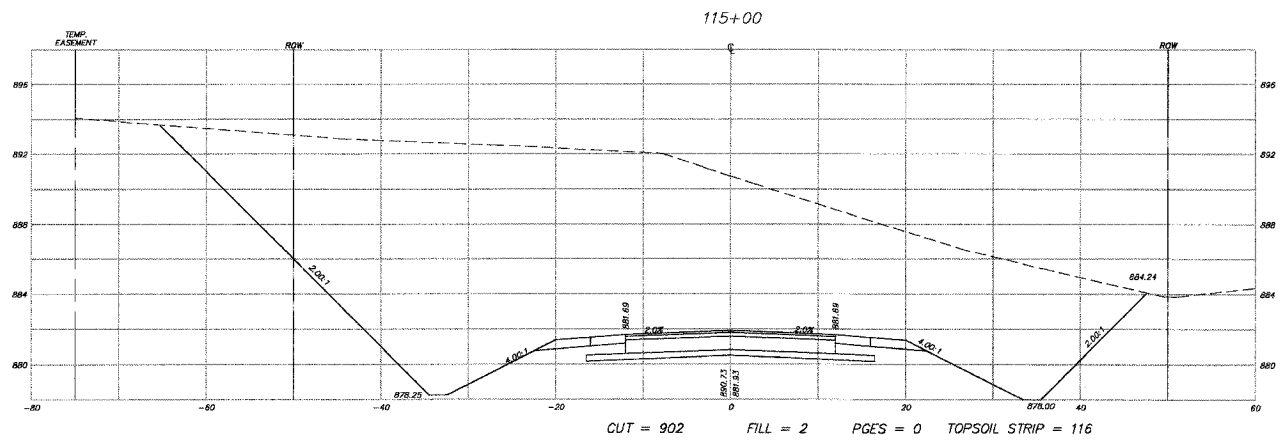
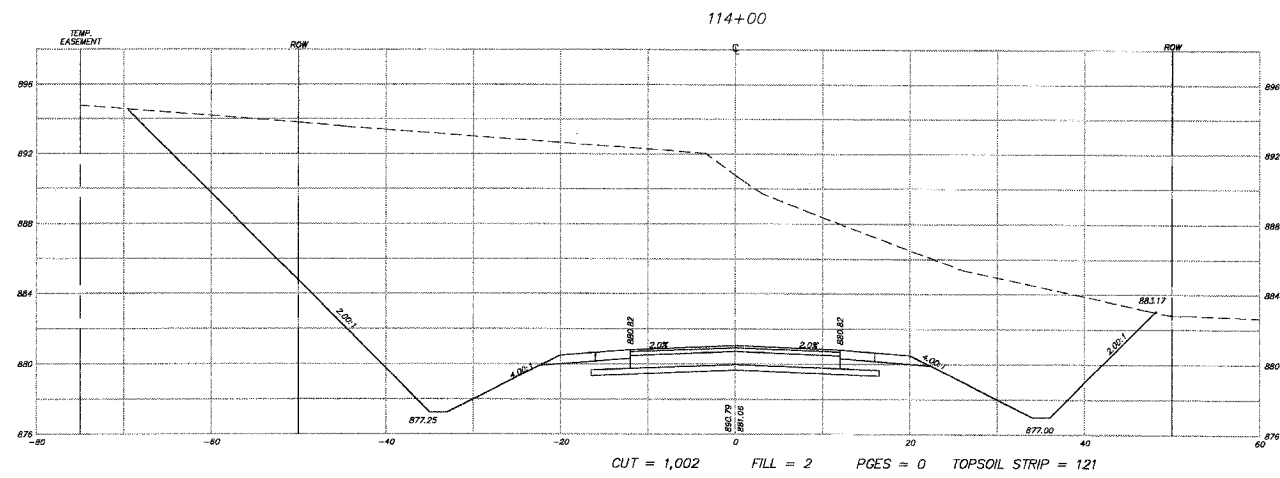
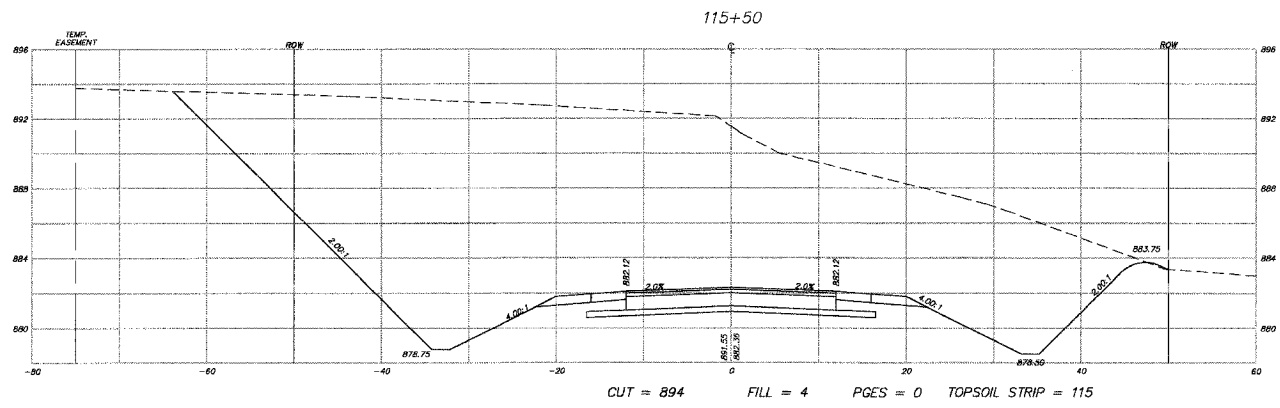
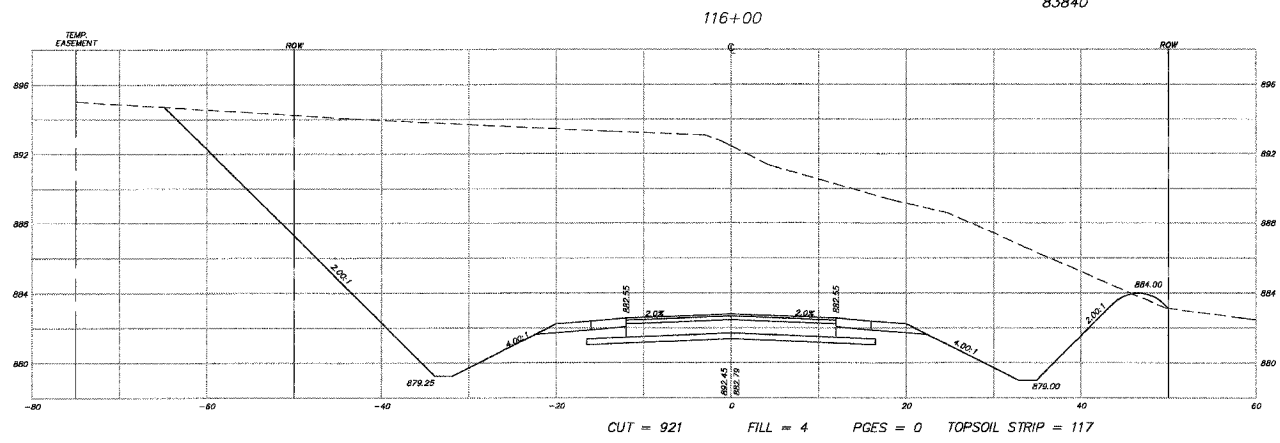
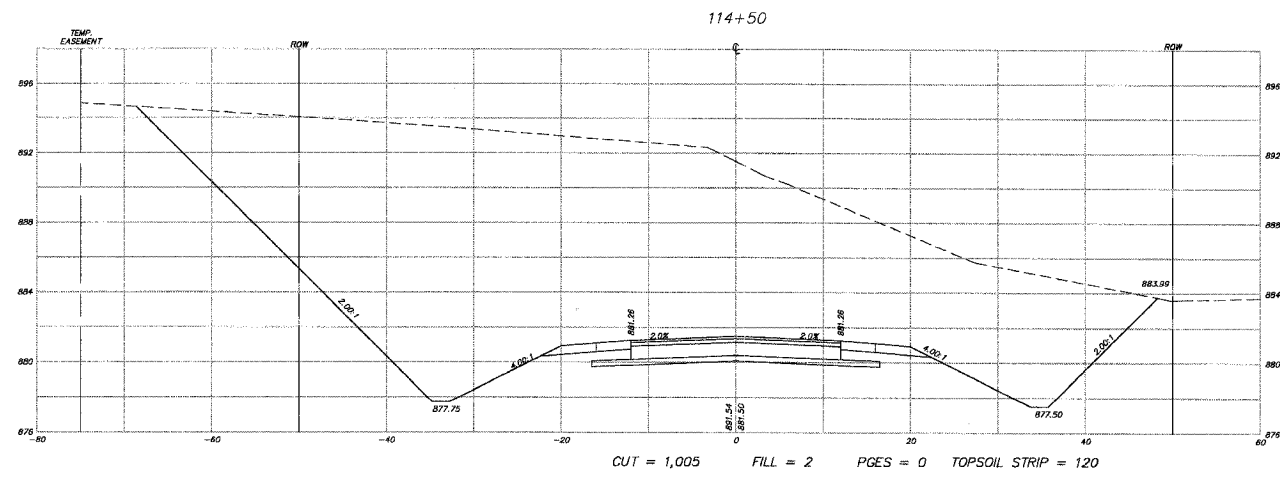
CROSS SECTIONS FOR  
 ACKMAN RD

SCALE: H:1"=10', V:1"=5'  
 DATE 10-05-2005 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: 030210.dwg  
 C:\DWG\030210.dwg  
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	63
STA.	114+00	TO STA.	116+00	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4000 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1770 FAX: 815-385-1781  
 WWW.SMITHENGINEERING.COM E-MAIL: SEC@SMITHENGINEERING.COM  
 ■ MCHENRY ■ HUNTLEY ■ YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 164-000108

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

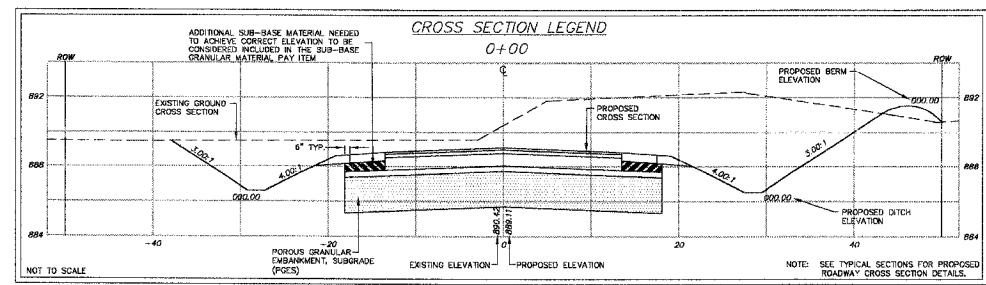
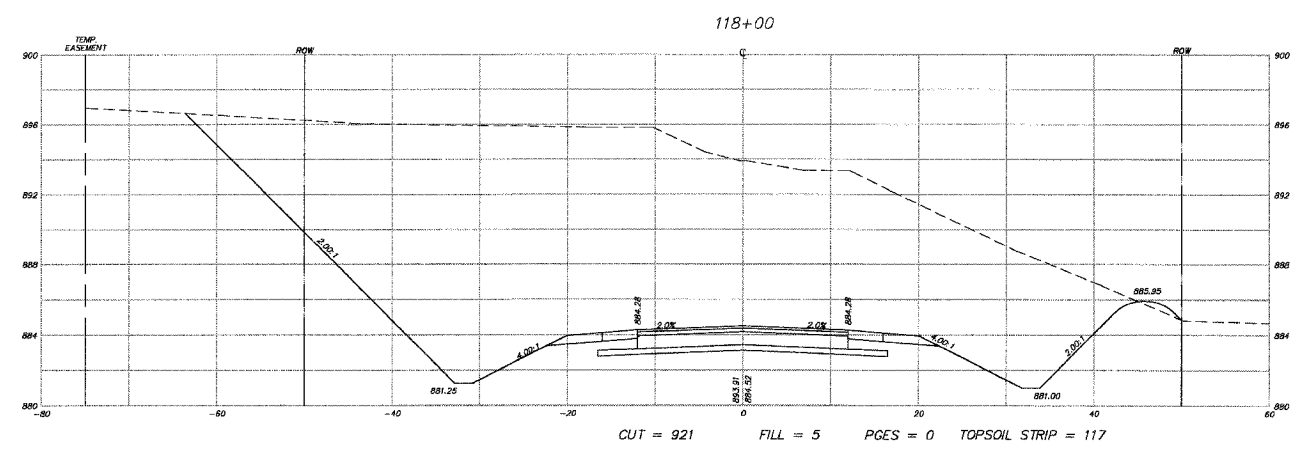
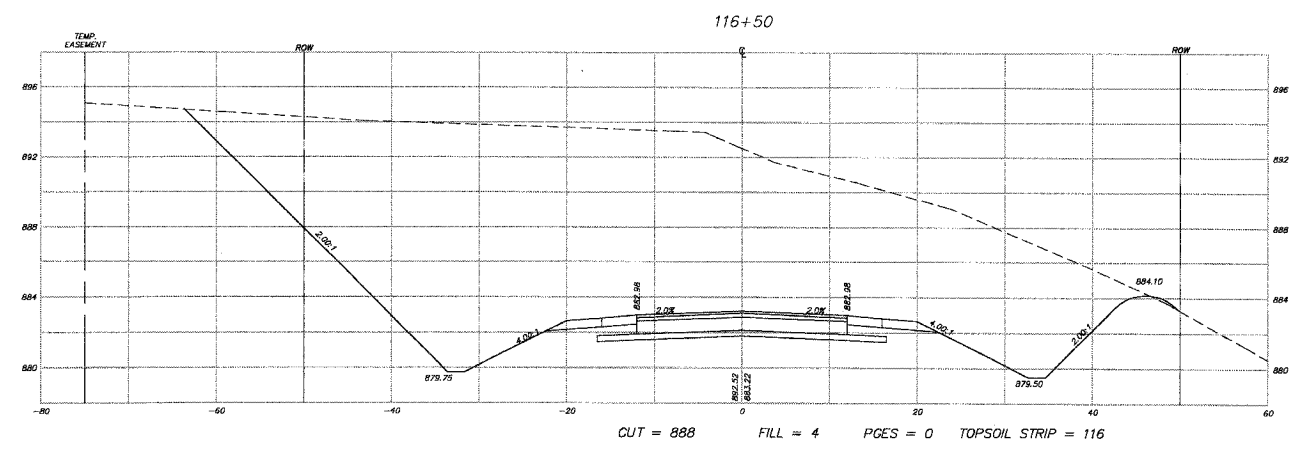
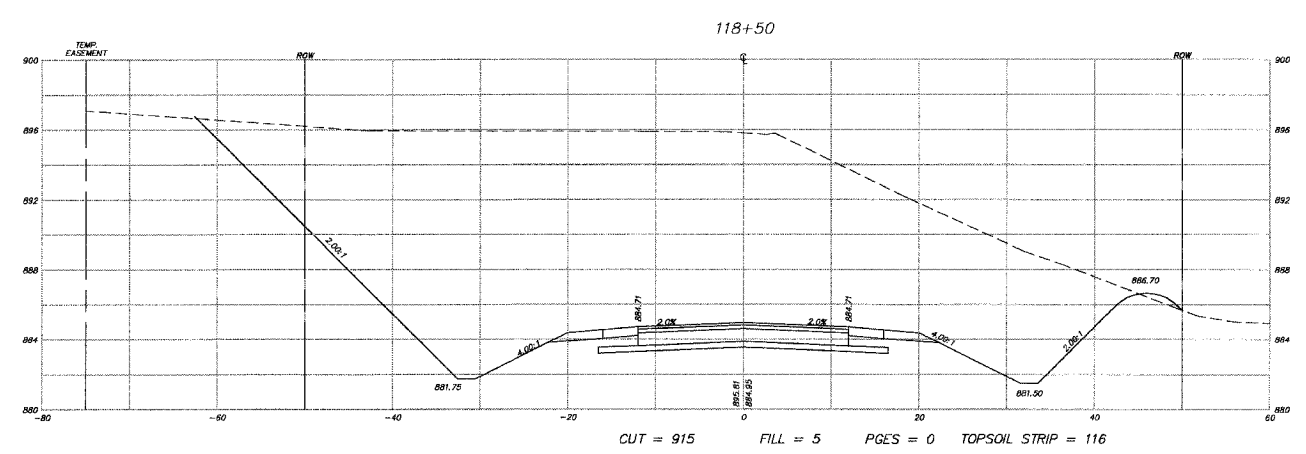
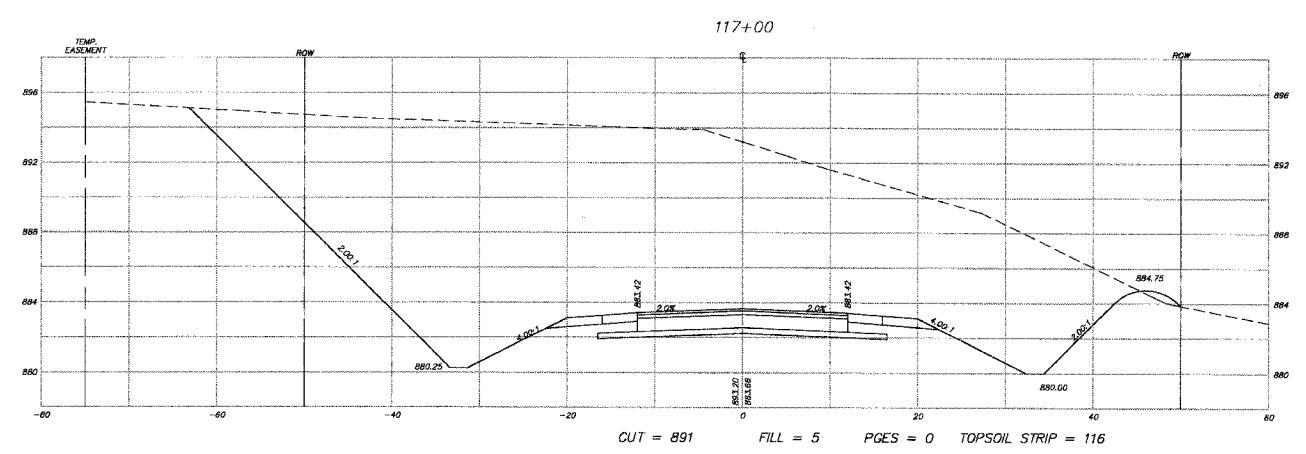
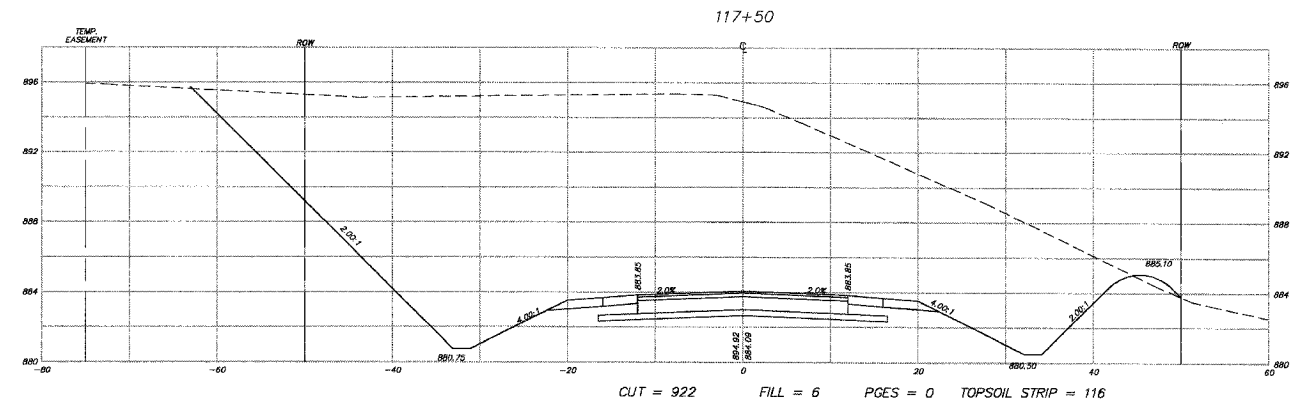
**CROSS SECTIONS FOR  
 ACKMAN RD**

SCALE: H:1"=10', V:1"=5'  
 DATE 10-05-2005  
 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: \\MCHENRY\CE\8-05-05\3873 00-00243-00-FP\114-116.dwg  
 DATE: 10/05/05 10:05 AM  
 USER: JCHENRY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	64
STA.	116+50	TO STA.	118+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

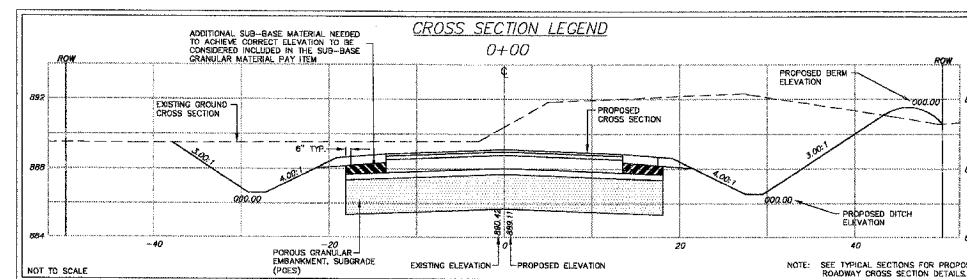
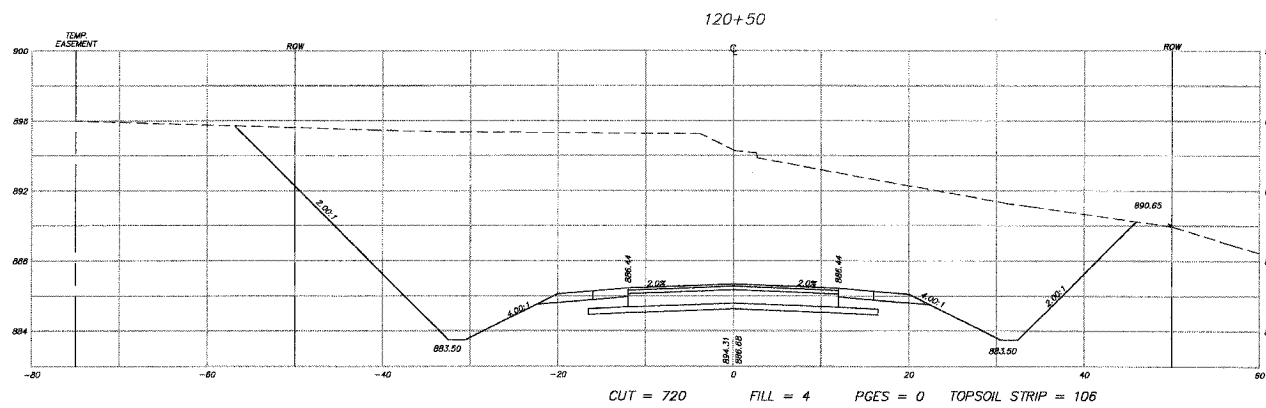
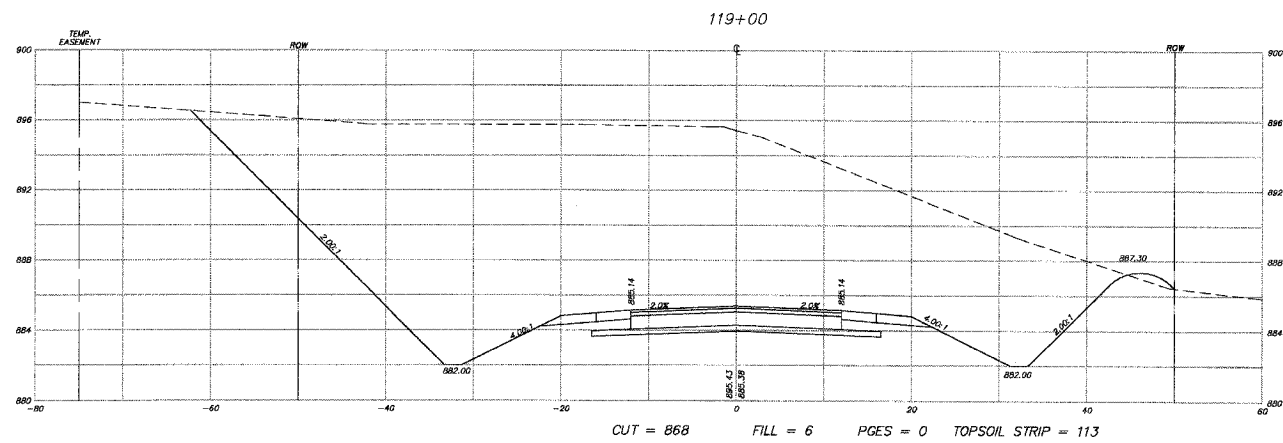
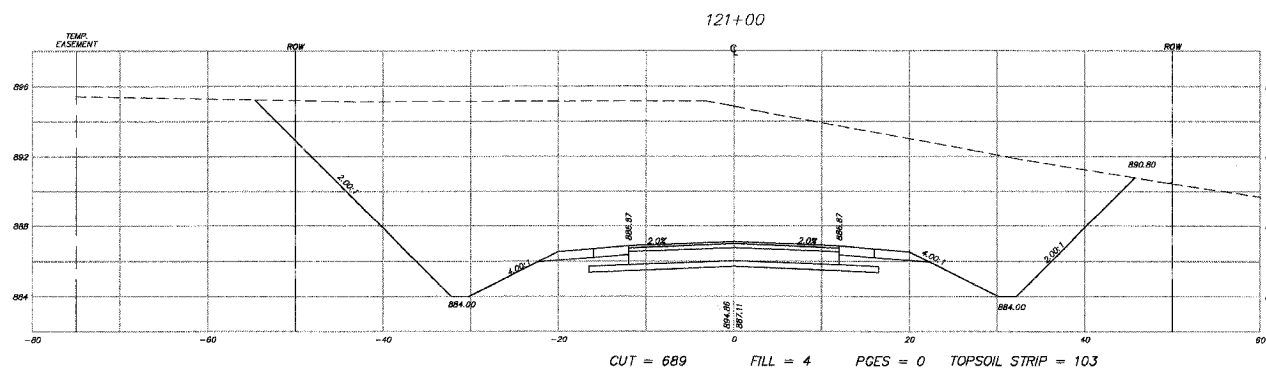
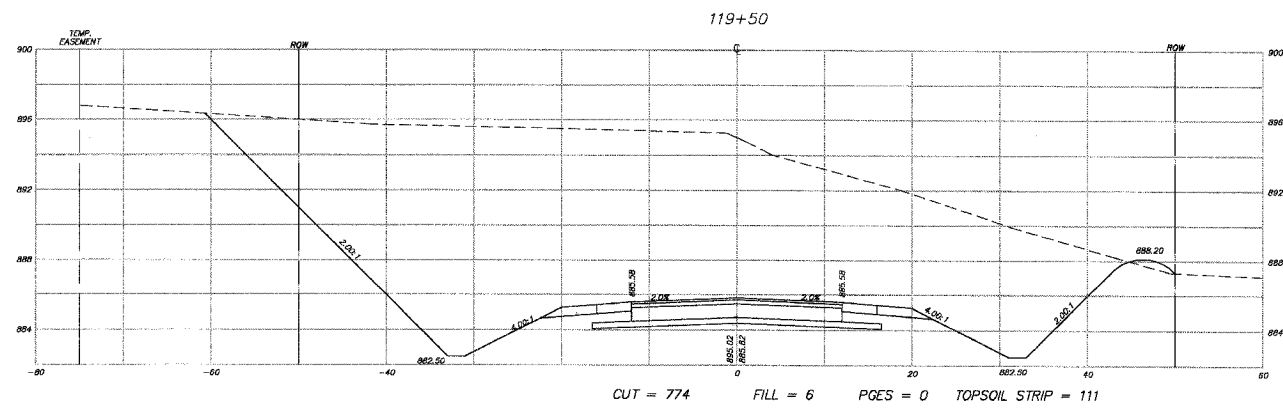
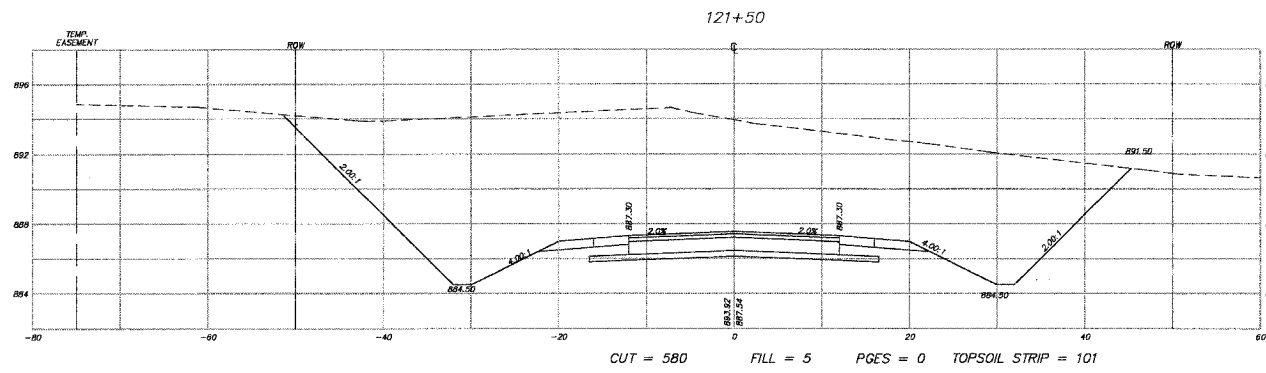
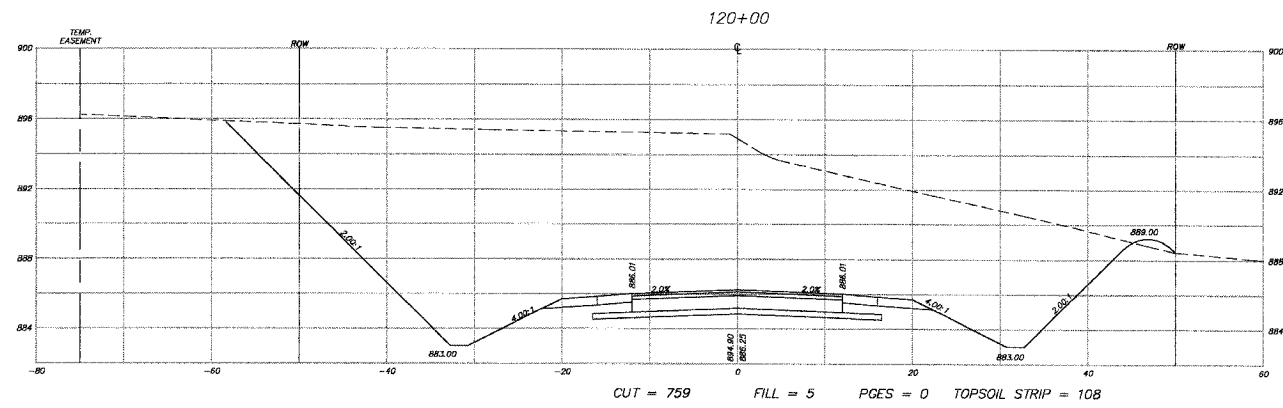
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 TEL: 815-380-1770 FAX: 815-380-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 \* MCHENRY \* HUNLEY \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**  
**CROSS SECTIONS FOR ACKMAN RD**  
 SCALE: H: 1"=10', V: 1"=5'  
 DATE 10-05-2005  
 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: D:\2021\Drawings\ACKMAN-ROAD.dwg  
 COMP. FILE:

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 DO-00243-00-FP		MCHENRY	84	65
STA.	119+00	TO STA.	121+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
83840				



NOTE:  
SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4900 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 615-385-1776 FAX: 615-285-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 \* MCHENRY \* HUNTLLEY \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION

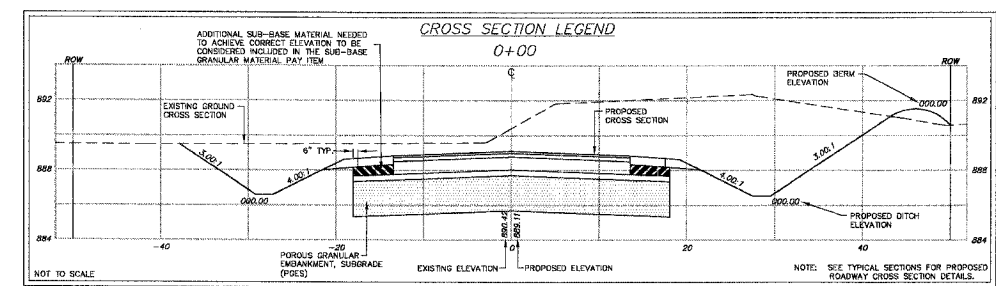
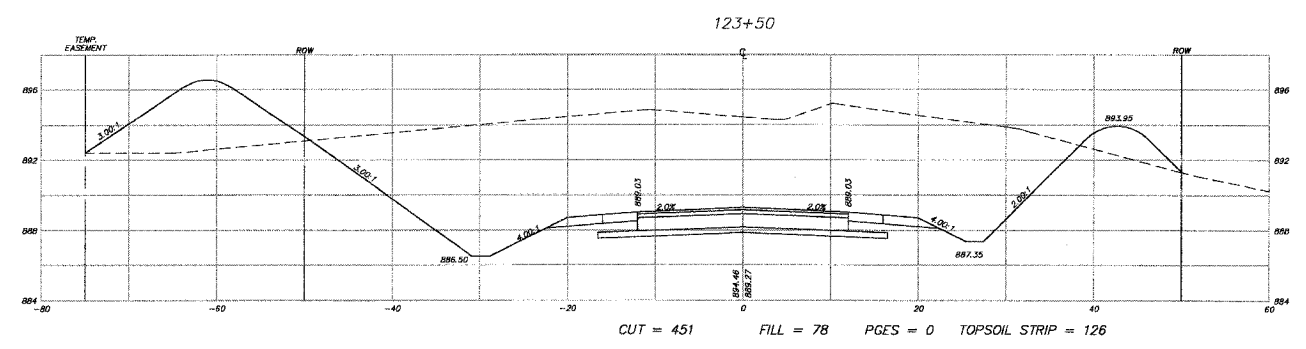
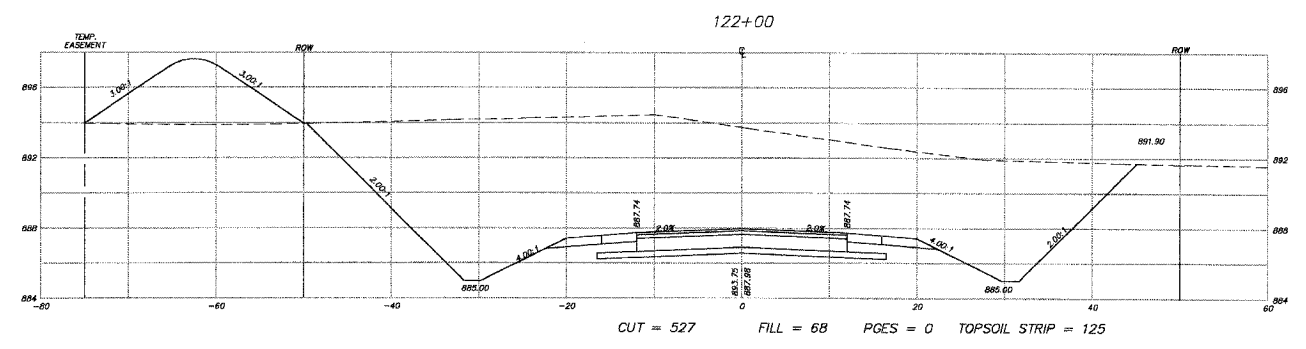
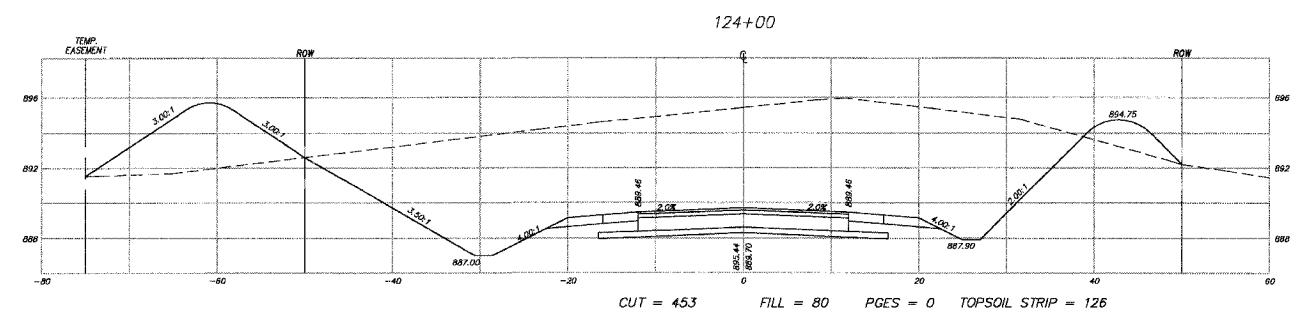
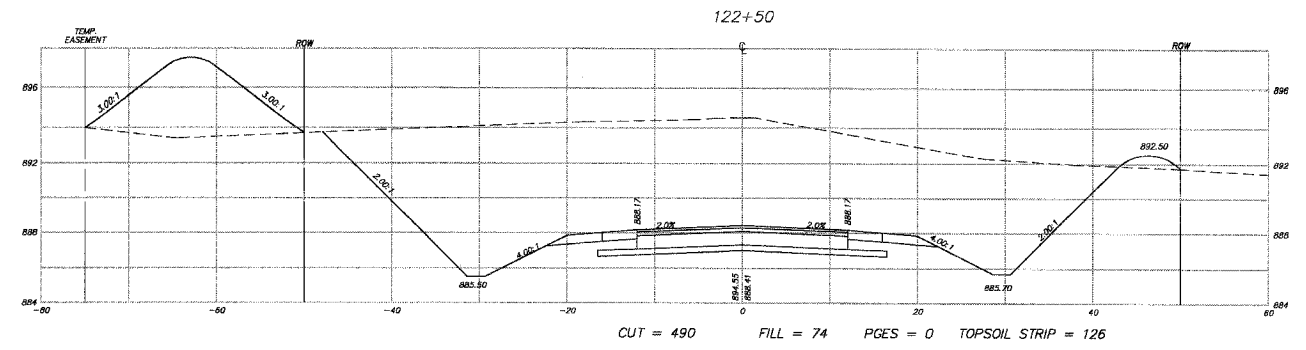
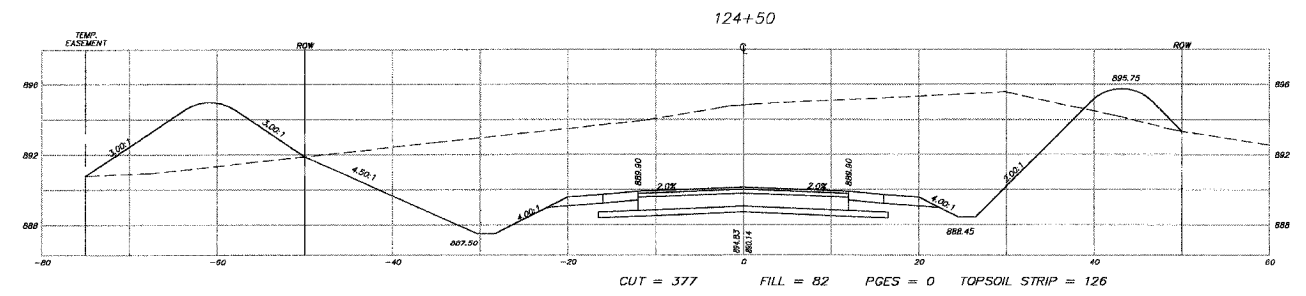
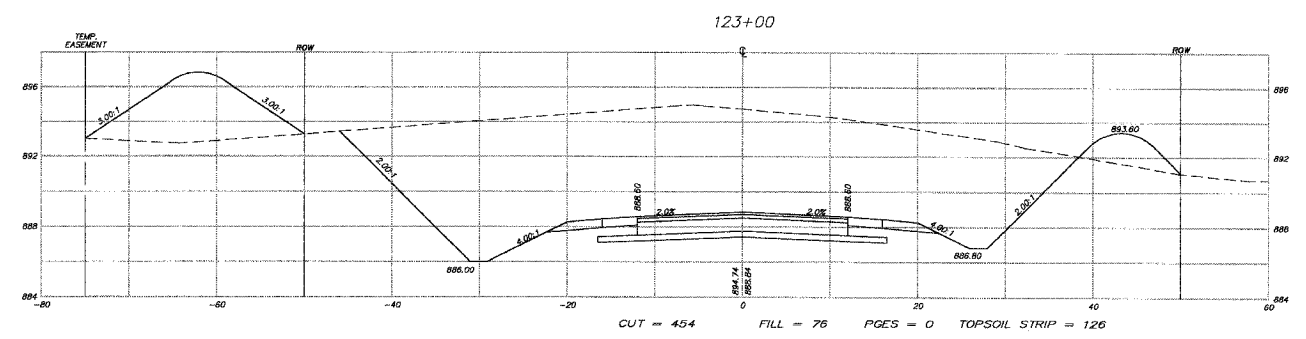
CROSS SECTIONS FOR  
 ACKMAN RD

SCALE: H: 1"=10', V: 1"=5'  
 DATE 10-05-2005

DRAWN BY CJP  
 CHECKED BY TEH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	66
STA.	122+00	TO STA.	124+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE: SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PHE: 815-385-1778 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 \* MCHENRY \* ILTOLETT \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**CROSS SECTIONS FOR ACKMAN RD**

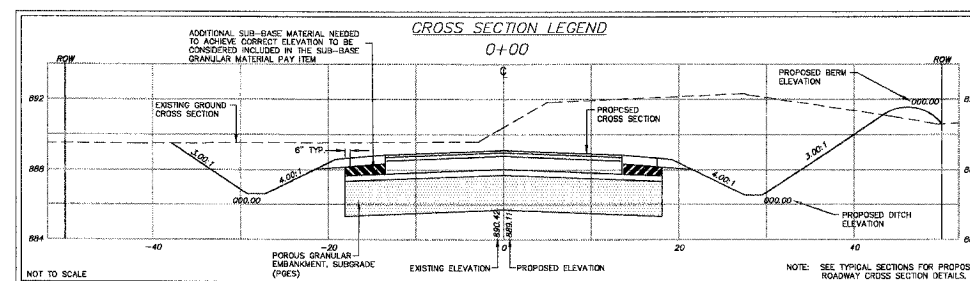
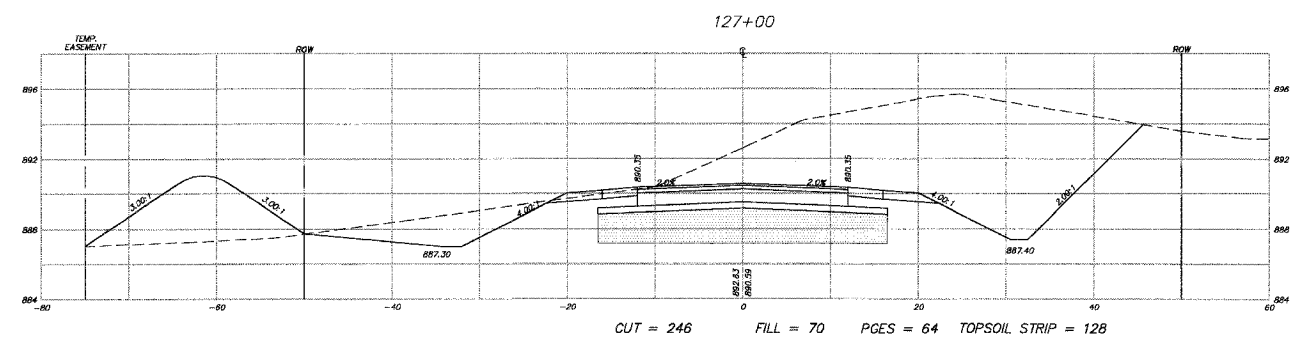
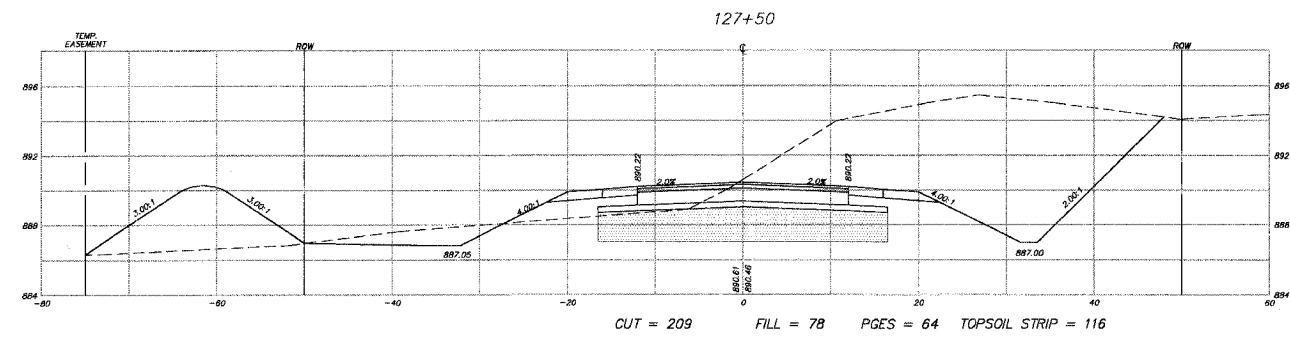
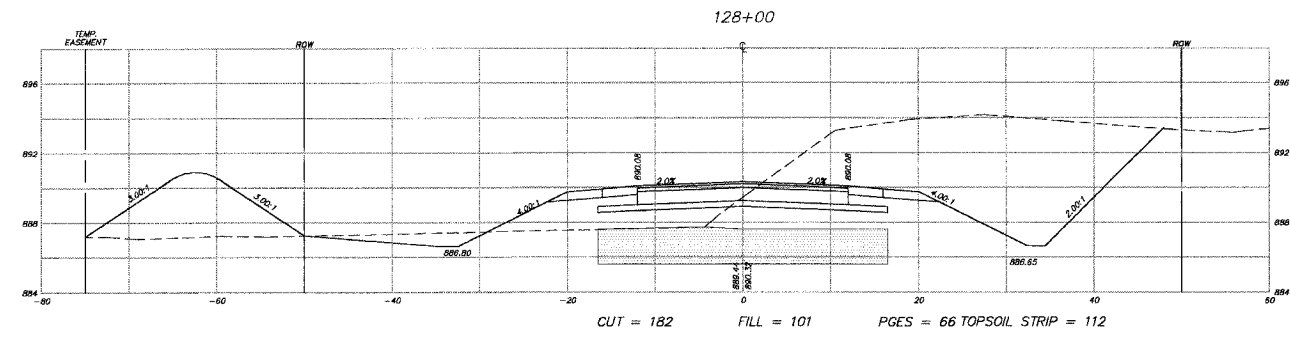
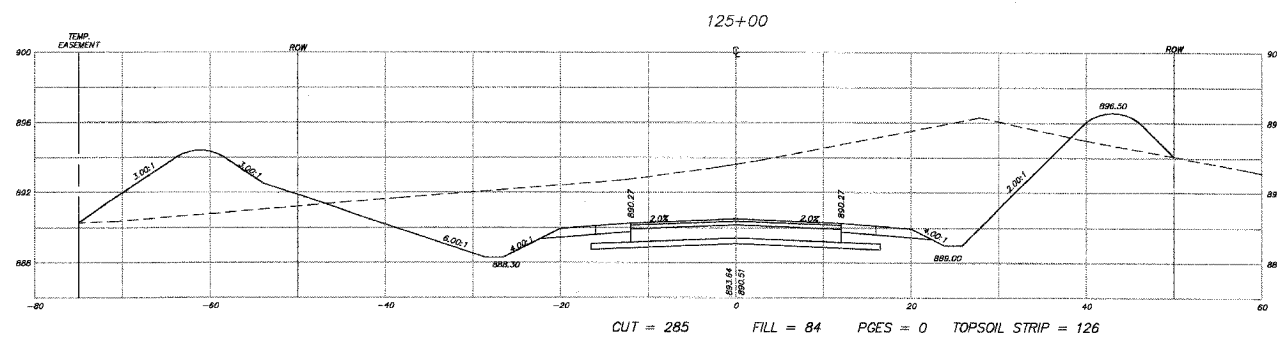
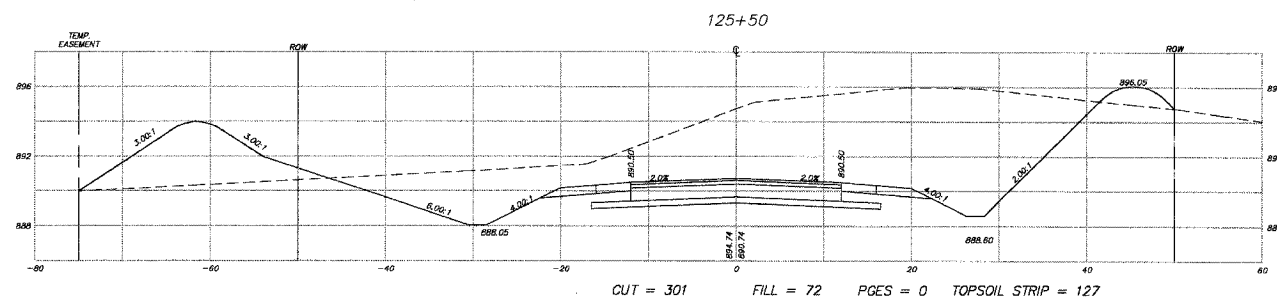
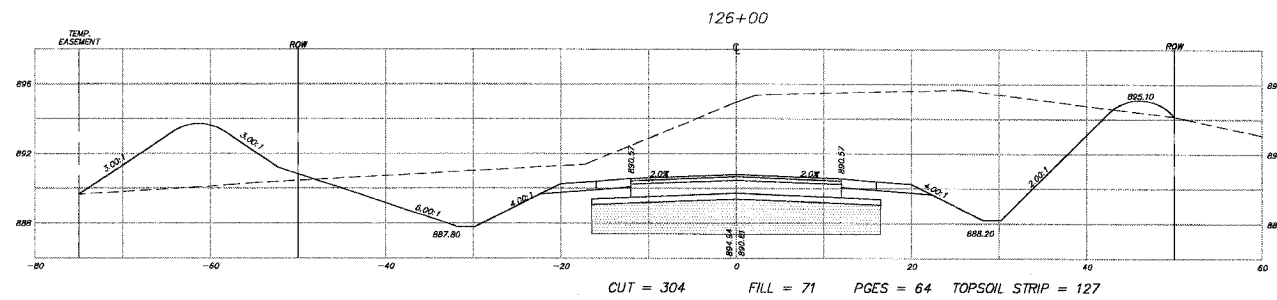
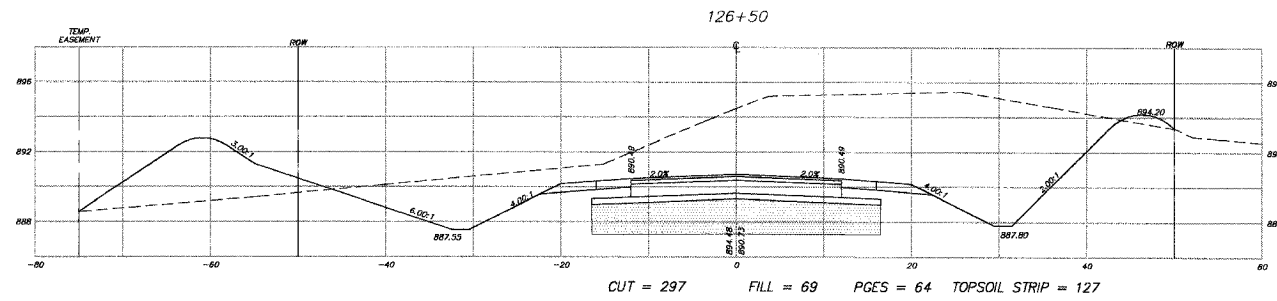
SCALE: H:1"=10', V:1"=5'  
 DATE 10-05-2005  
 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: 48  
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 CADD FILE: 030210.dwg



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	67
STA.	125+00	TO STA.	128+00	
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT				

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4000 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 615-385-1776 FAX: 615-385-1781  
www.smithengineering.com E-MAIL: see@smithengineering.com  
MCHENRY HUNTERVILLE YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

CROSS SECTIONS FOR  
ACKMAN RD

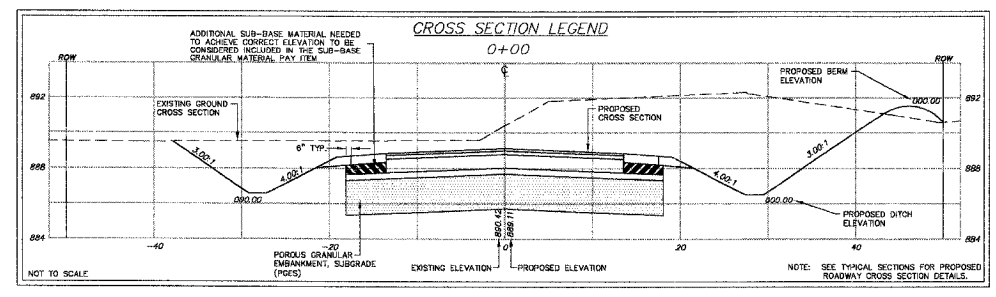
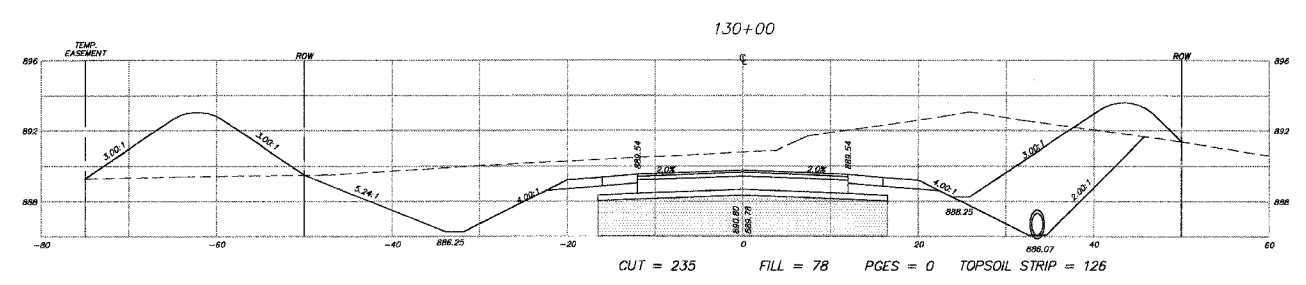
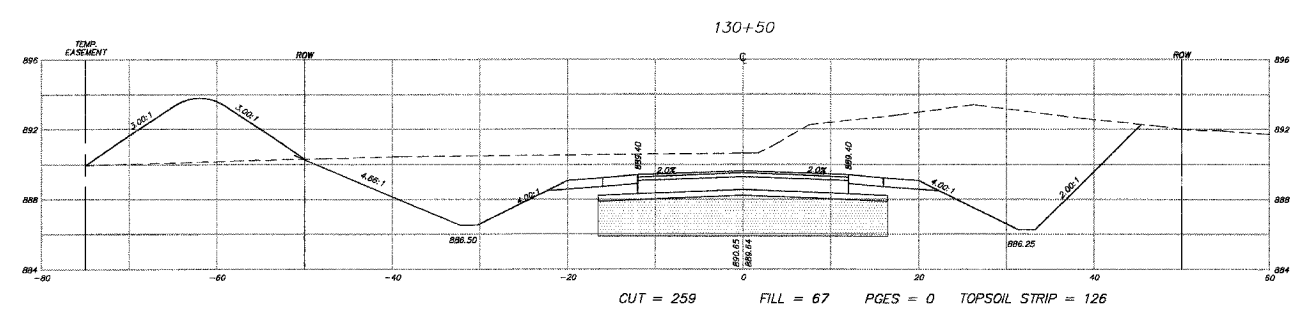
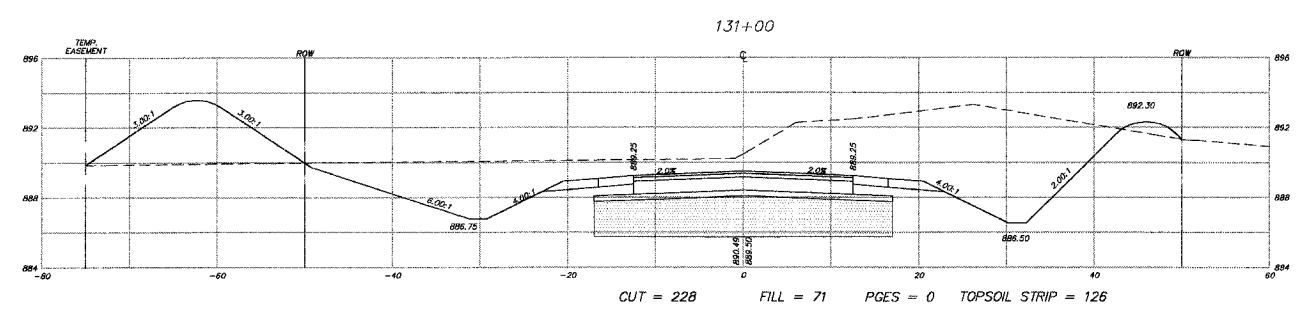
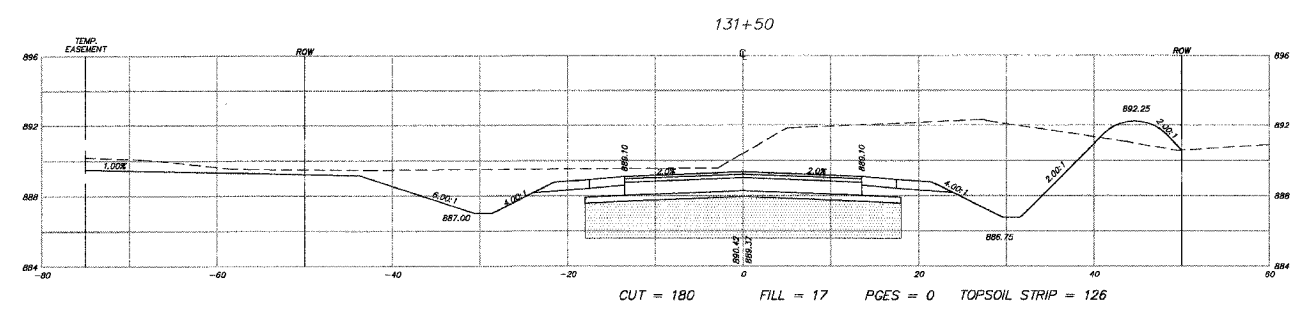
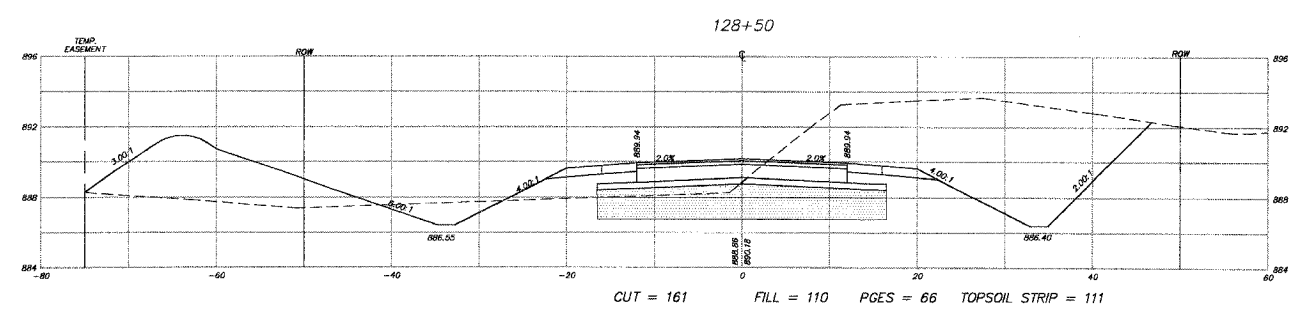
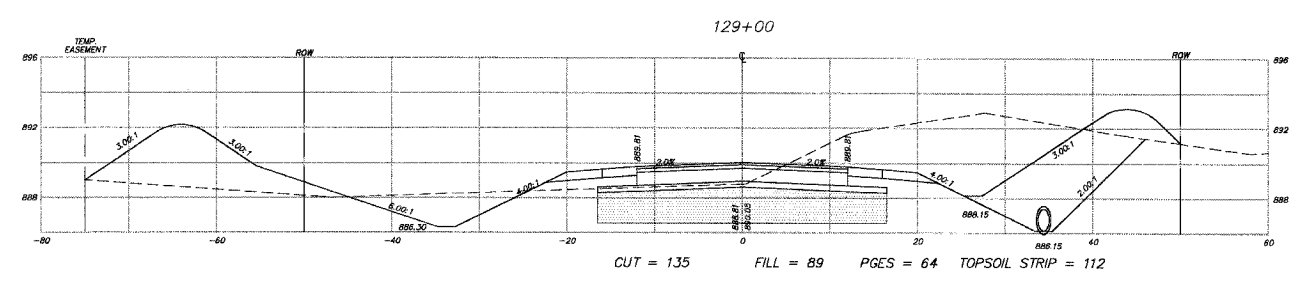
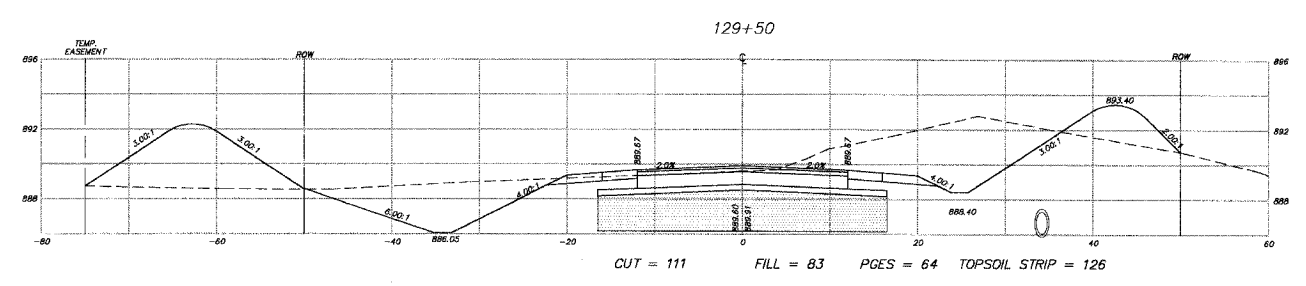
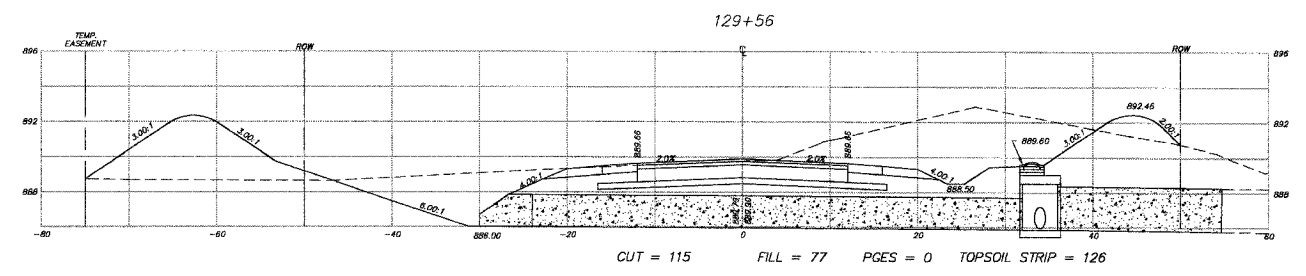
SCALE: H: 1"=10', V: 1"=5'  
DATE 10-05-2005

DRAWN BY CJP  
CHECKED BY TEH

PLOT FILE: 030210mchackman-newk.dwg  
COMP. FILE: 030210mchackman-newk.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	68
STA.	128+50	TO STA.	131+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE:  
SEE THE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 TEL: 815-382-1778 FAX: 815-382-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 MCHENRY HUNLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION

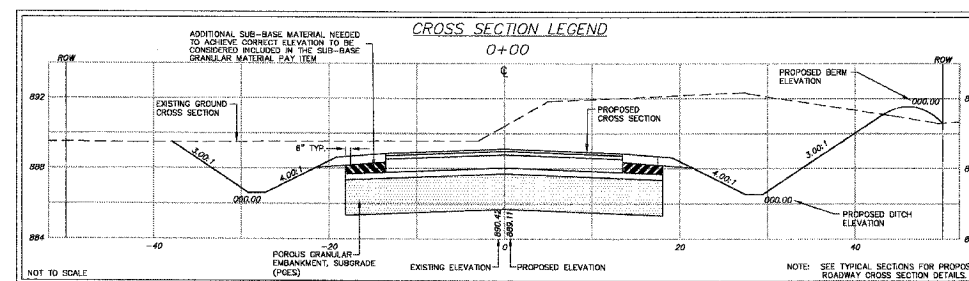
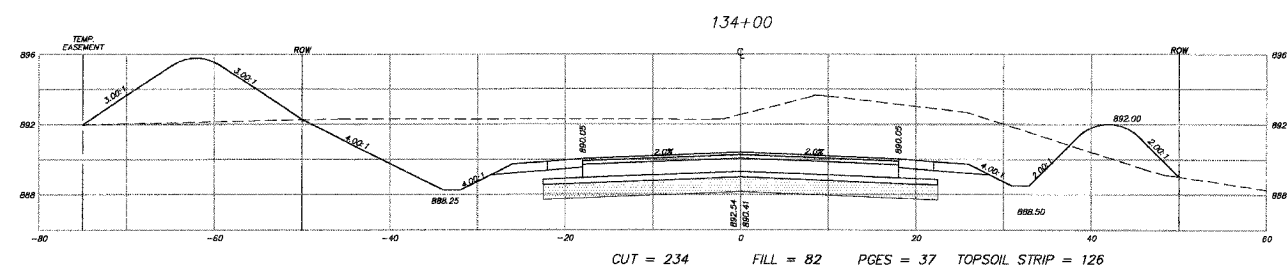
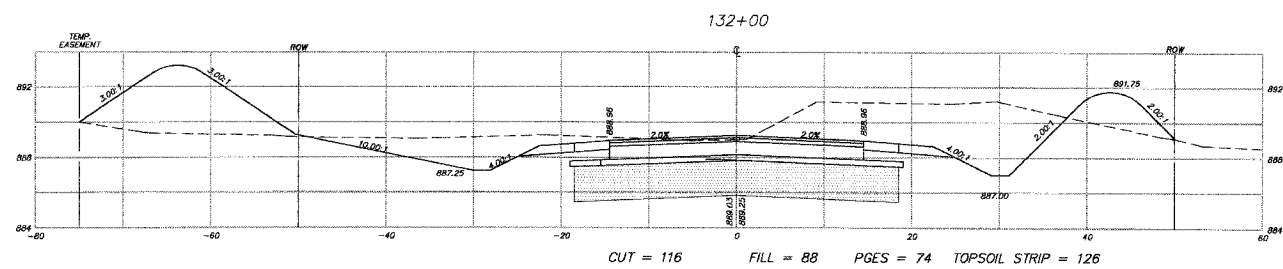
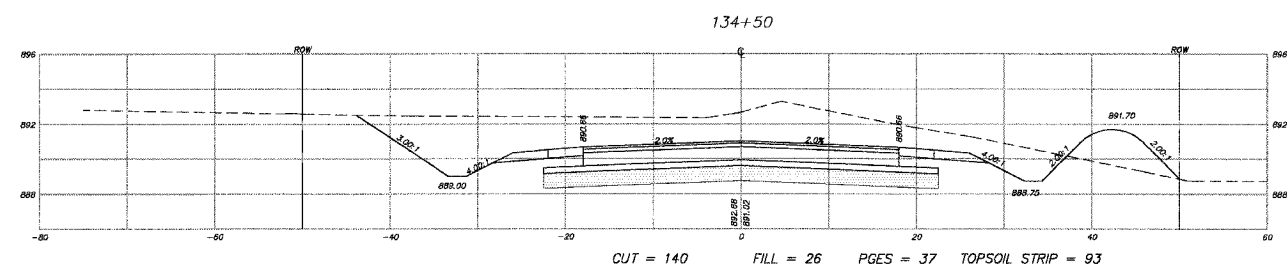
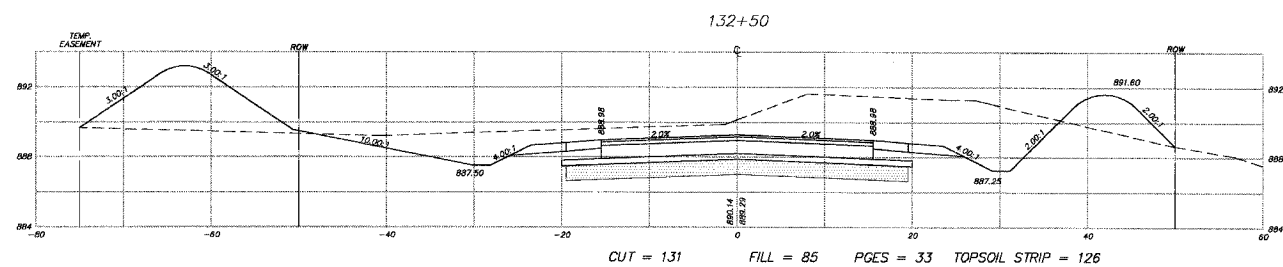
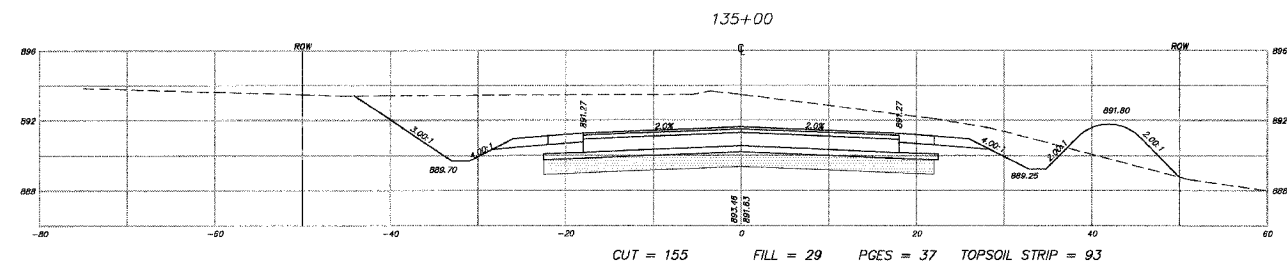
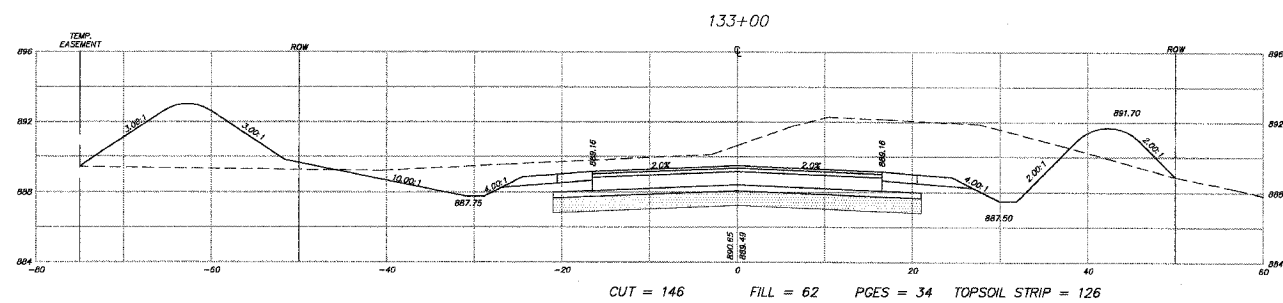
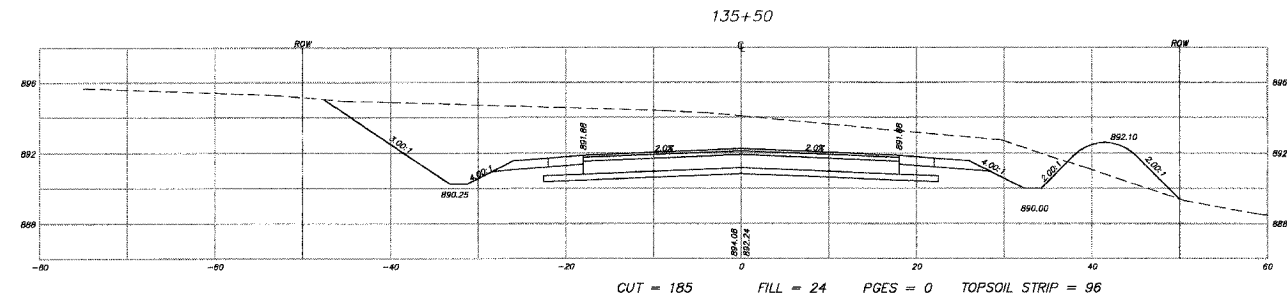
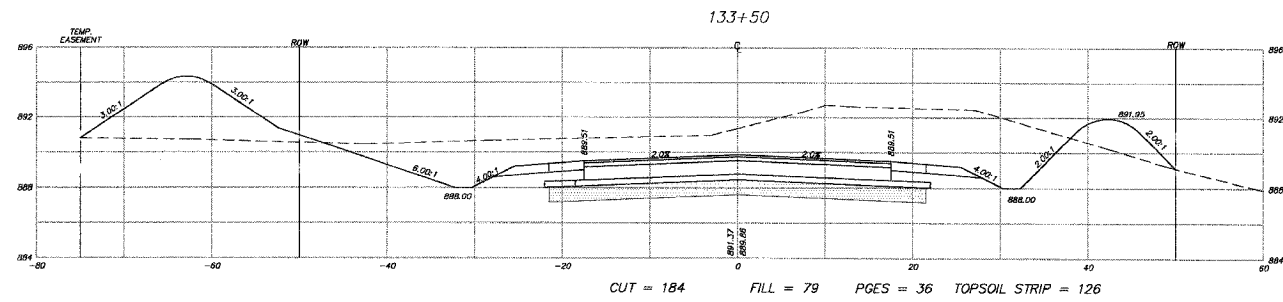
CROSS SECTIONS FOR  
 ACKMAN RD

SCALE: H:1"=10', V:1"=5'  
 DATE 10-05-2005  
 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: 03202103840.CAD  
 CADD FILE: 03202103840.CADMAN-newk.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3B73 DO-00243-00-FP		MCHENRY	84	69
STA. 132+00	TO STA. 135+50			
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

83840



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REVISIONS	
NAME	DATE
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PH: 815-385-1778 FAX: 815-385-1781  
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MCHENRY HUNTERY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

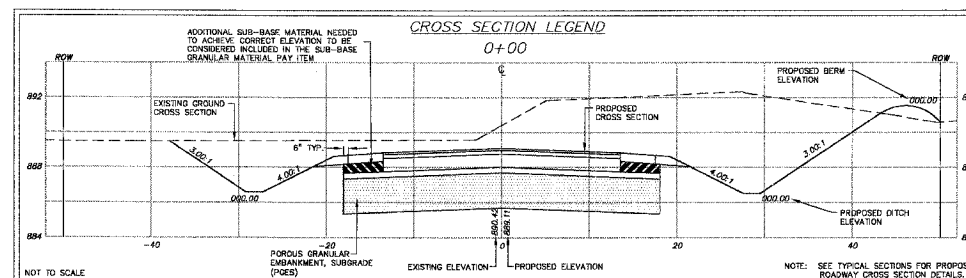
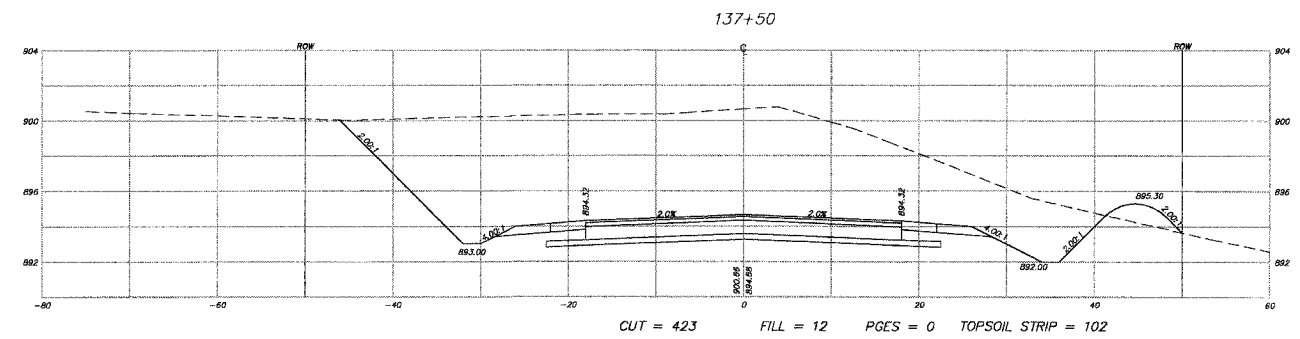
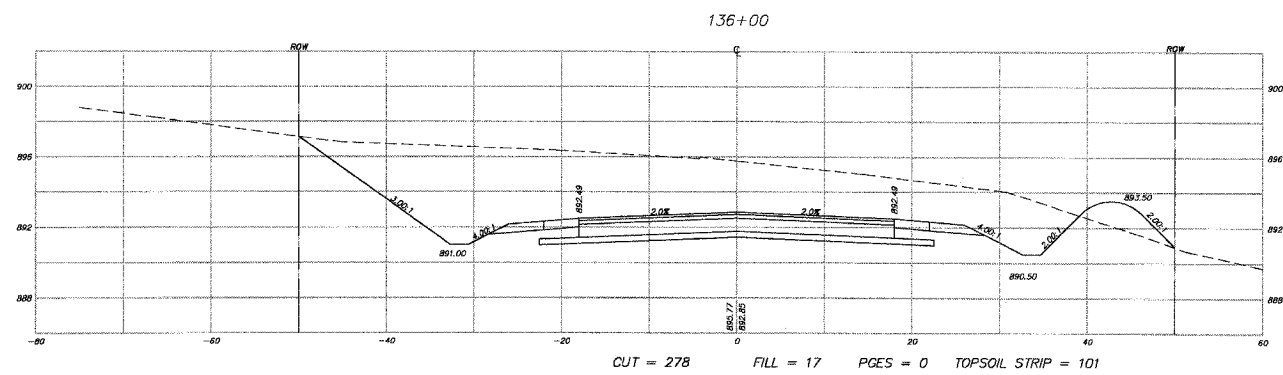
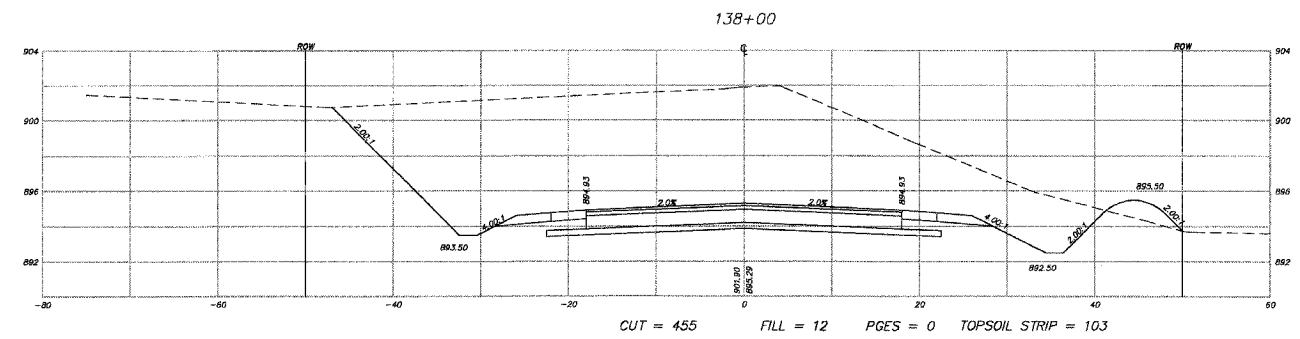
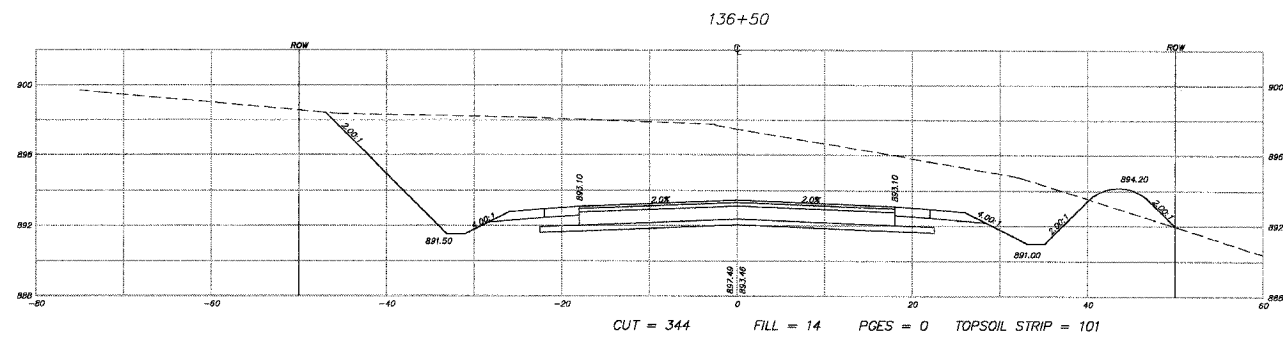
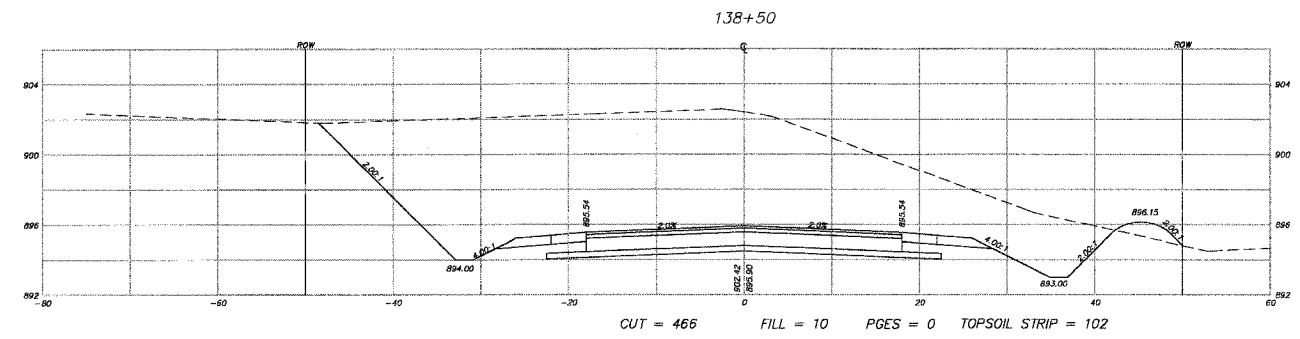
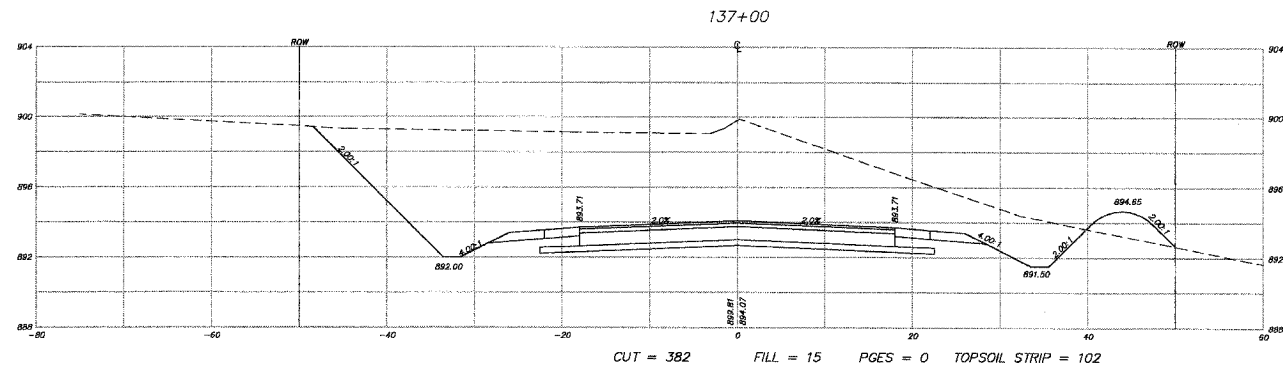
CROSS SECTIONS FOR  
ACKMAN RD

SCALE: H:1"=10', V:1"=5'  
DATE 10-05-2005

DRAWN BY CJP  
CHECKED BY TEH

PLOT FILE: 032010resackman-new.dwg  
DWG FILE: 032010resackman-new.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	70
STA.	136+00	TO STA.	138+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT		83840	



NOTE:  
SEE THE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 203  
MCHENRY, ILLINOIS 60050  
PH: 815-385-1778 FAX: 815-385-1781  
www.smithengineering.com E-MAIL: sec@smithengineering.com  
MCHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

CROSS SECTIONS FOR  
ACKMAN RD

SCALE: H:1"=10', V:1"=5'  
DATE 10-05-2005

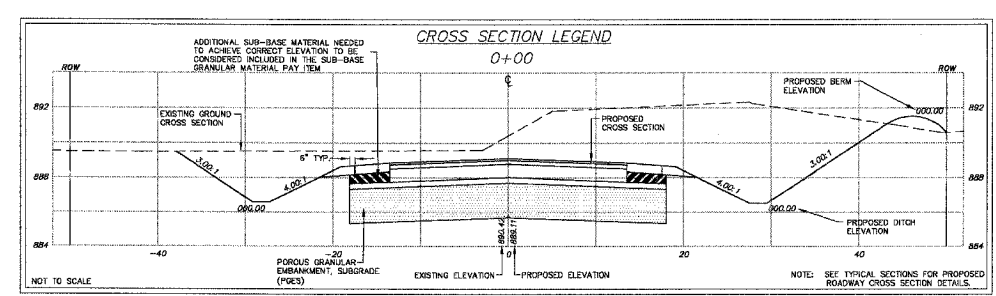
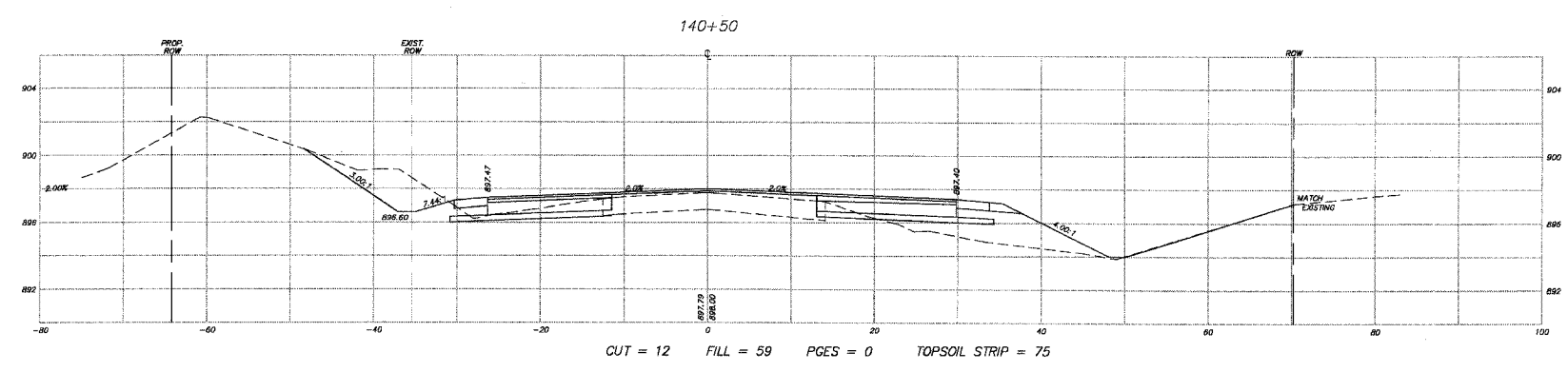
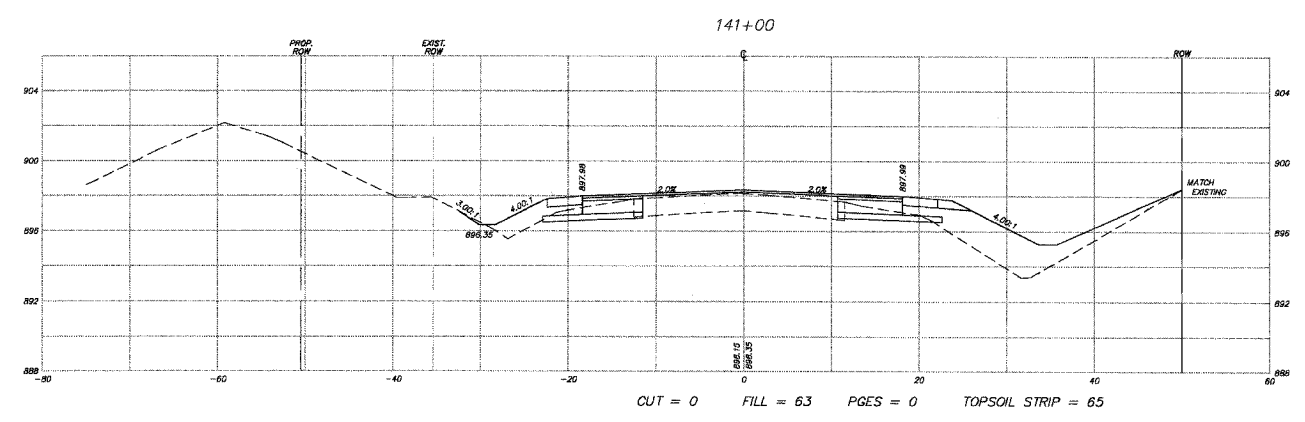
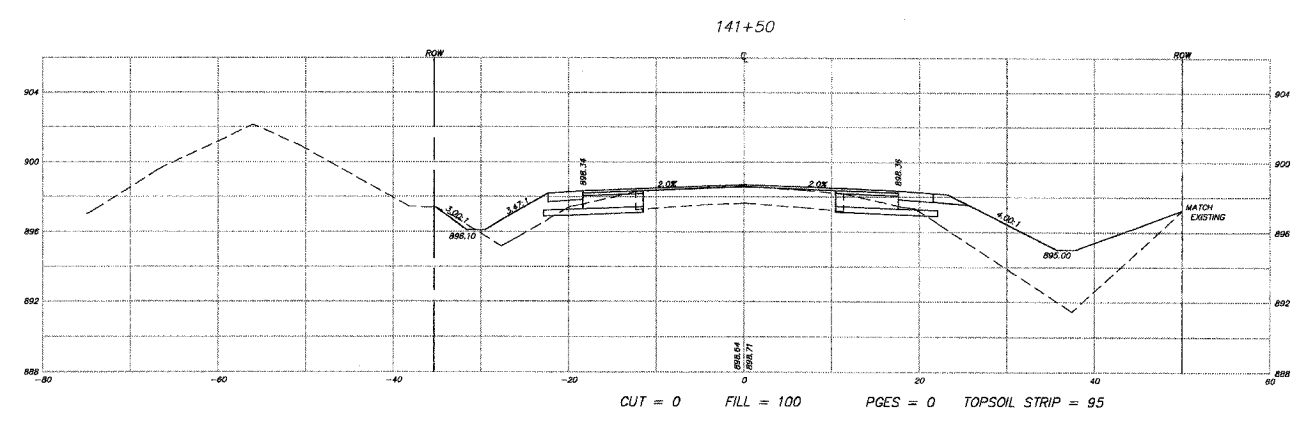
DRAWN BY CJP  
CHECKED BY TEH

PLOT FILE: 030210.dwg  
C:\PLOT\030210.dwg



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	72
STA. 140+50	TO STA. 141+50			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

83840



NOTE: SEE THE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.

REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4050 PRIME PARKWAY, SUITE 201  
 McHENRY, ILLINOIS 60050  
 PH: 815-305-1770 FAX: 815-308-1781  
 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 McHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

McHENRY COUNTY DIVISION OF TRANSPORTATION  
 ACKMAN ROAD EXTENSION

CROSS SECTIONS FOR  
 ACKMAN RD

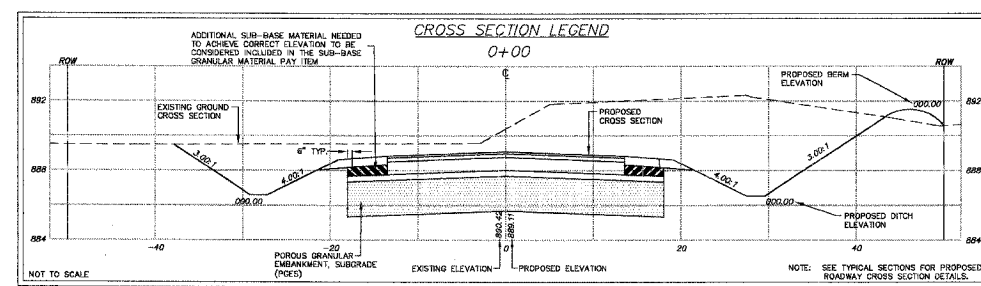
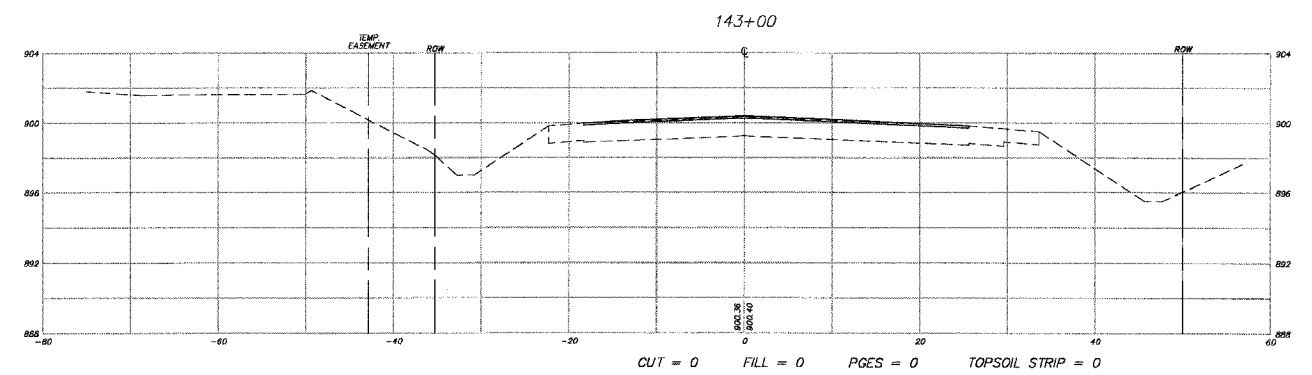
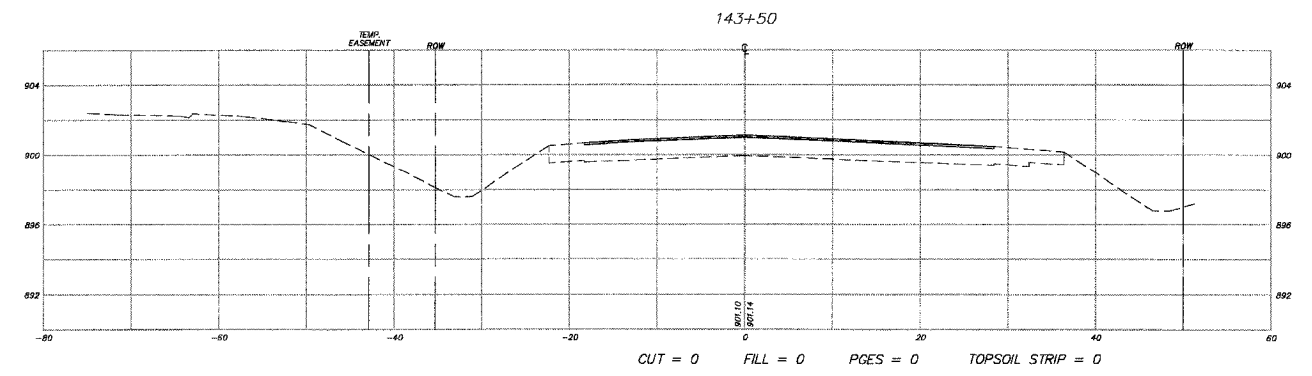
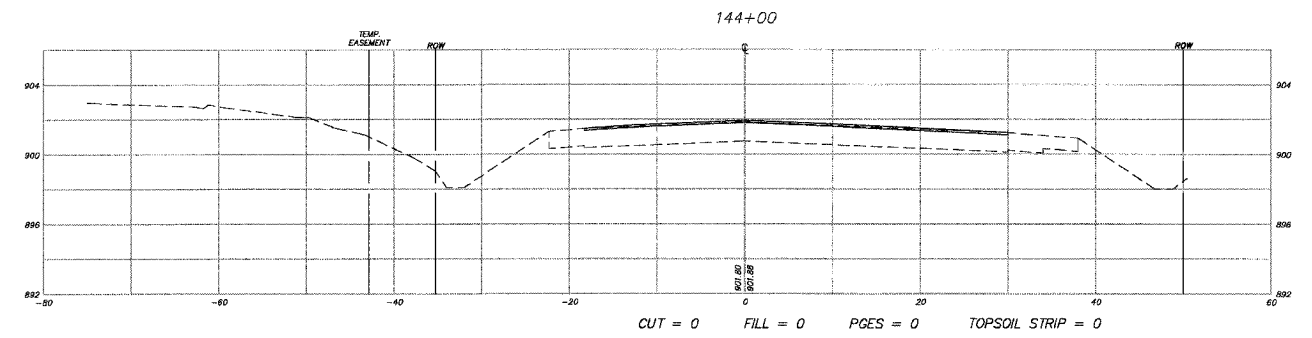
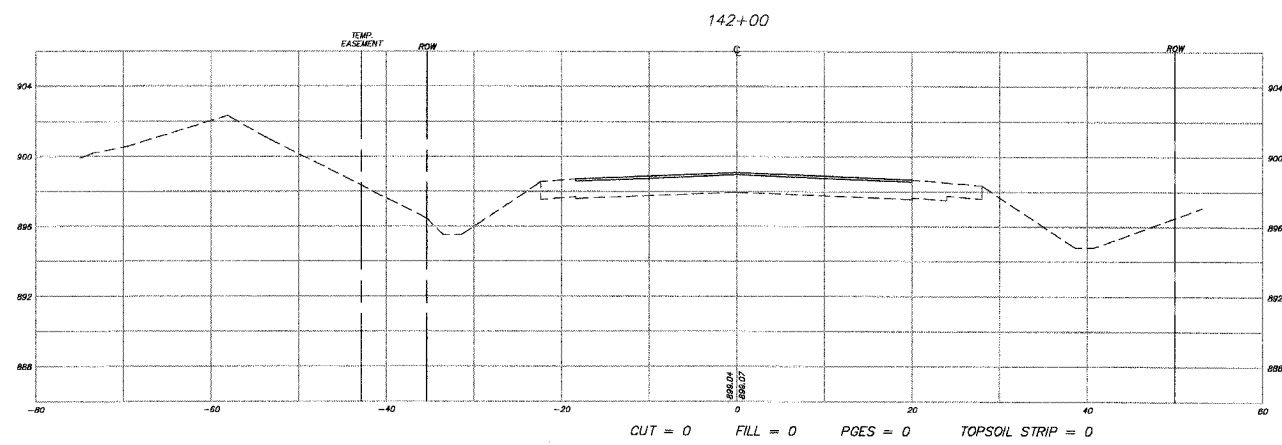
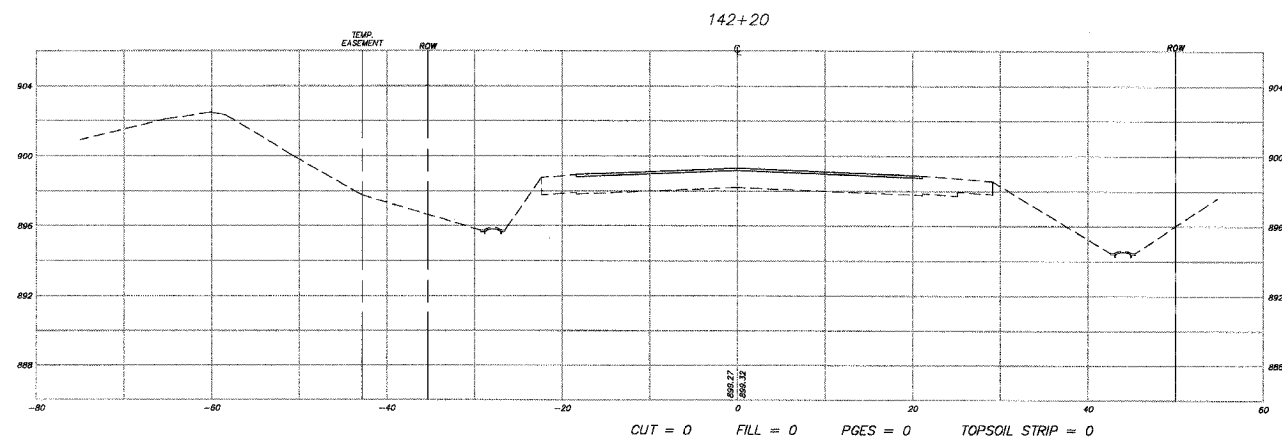
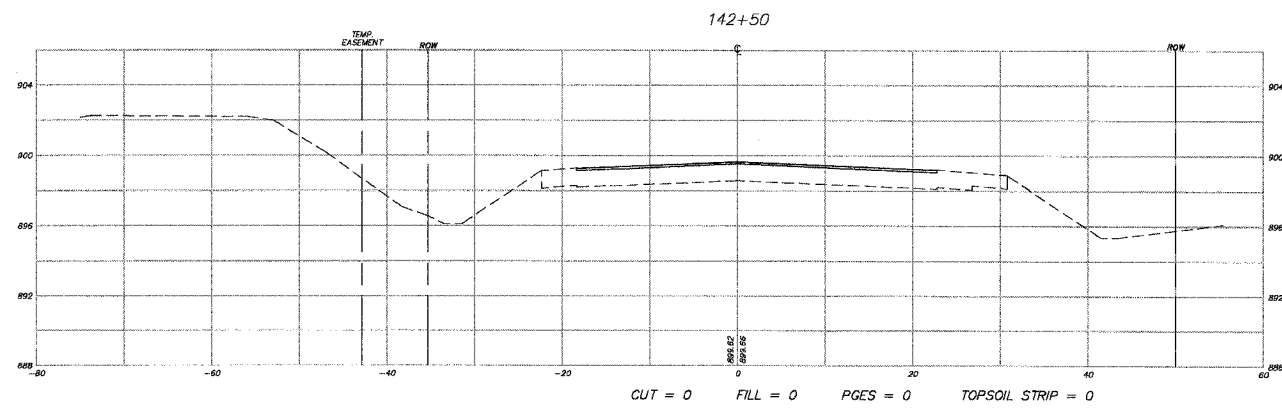
SCALE: H:1"=10', V:1"=5'  
 DATE 10-05-2005 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: 72  
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873	00-00243-00-FP	MCHENRY	84	73
STA.	142+00	TO STA.	144+00	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE:  
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REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 618-386-1170 FAX: 618-386-1791  
 www.smithengineering.com E-MAIL: seo@smithengineering.com  
 \*MORTON \*MORTON \*MORTON  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

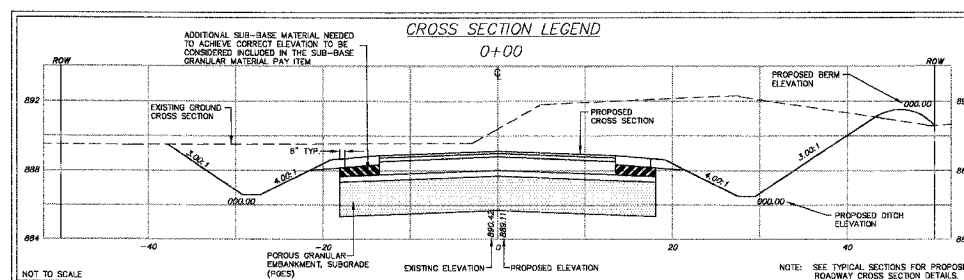
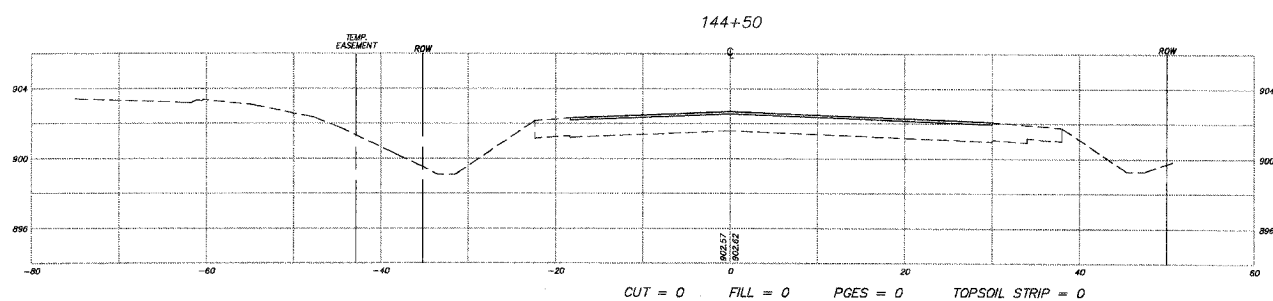
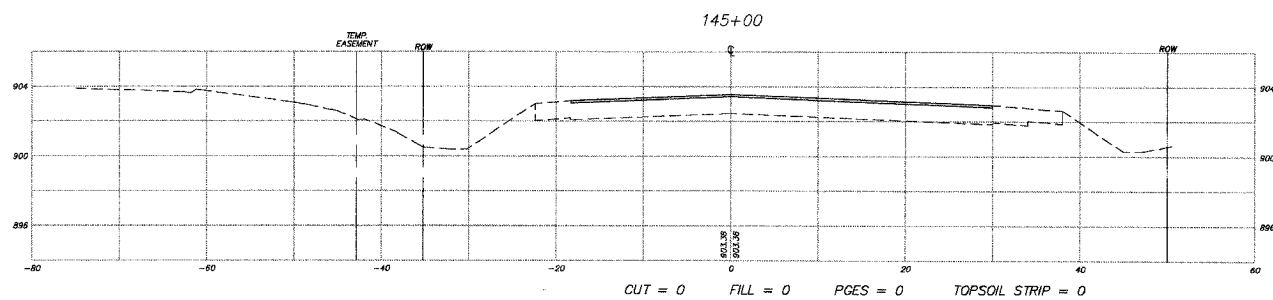
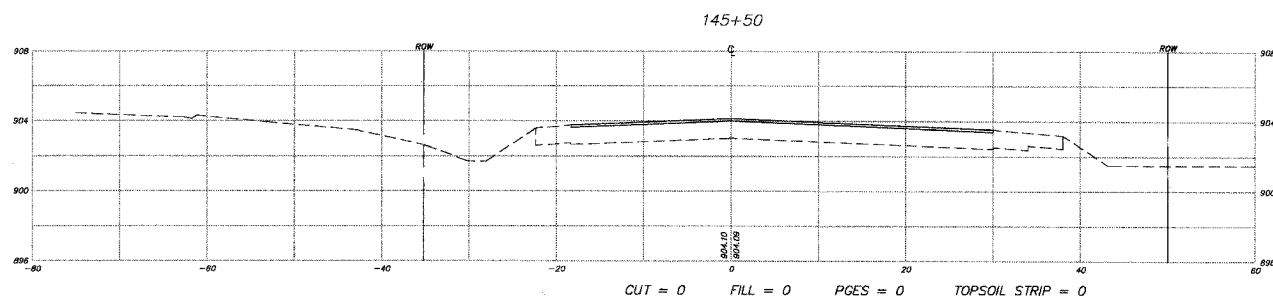
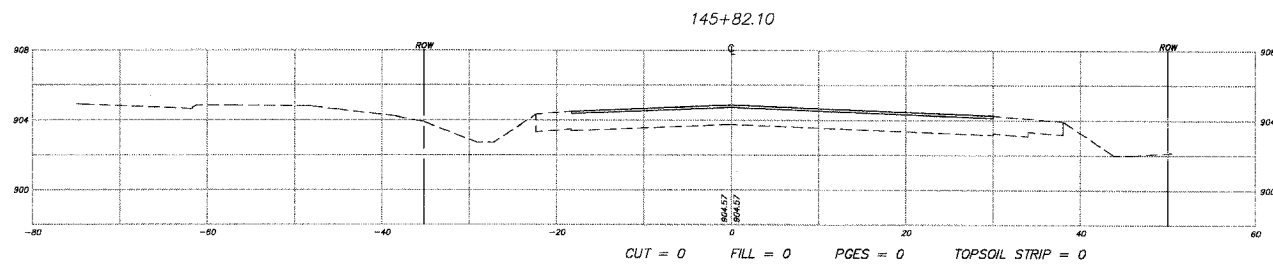
**CROSS SECTIONS FOR**  
**ACKMAN RD**

SCALE: H: 1"=10', V: 1"=5'  
 DATE 10-05-2005  
 DRAWN BY CJP  
 CHECKED BY TEH

PROJ FILE: D:\2002\Projects\ACKMAN-ROW\ROW.dwg  
 VIEW: CS-73  
 COMP FILE:

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	74
STA. 144+50	TO STA. 145+82.10			
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

83840



NOTE:  
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REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 P: 815-385-1778 F: 815-385-1781  
 www.smithengineering.com E-MAIL: eec@smithengineering.com  
 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000106

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
 ACKMAN ROAD EXTENSION

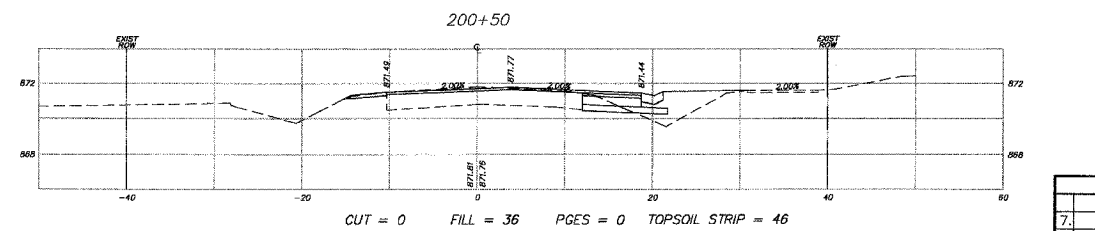
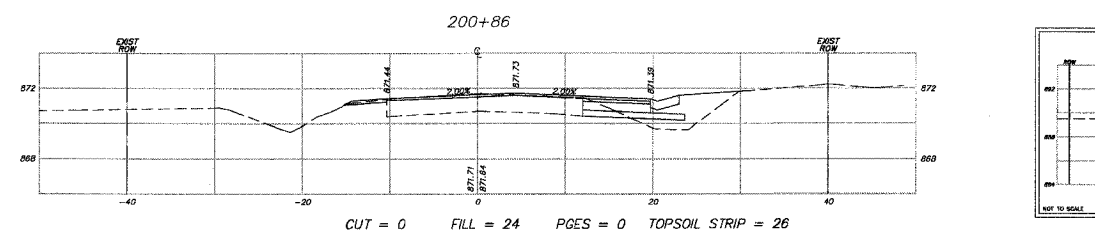
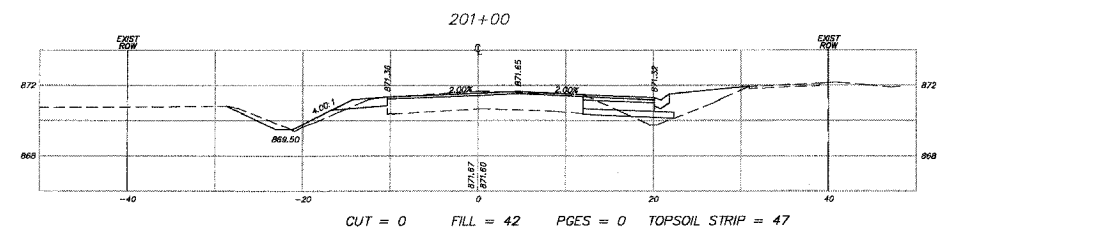
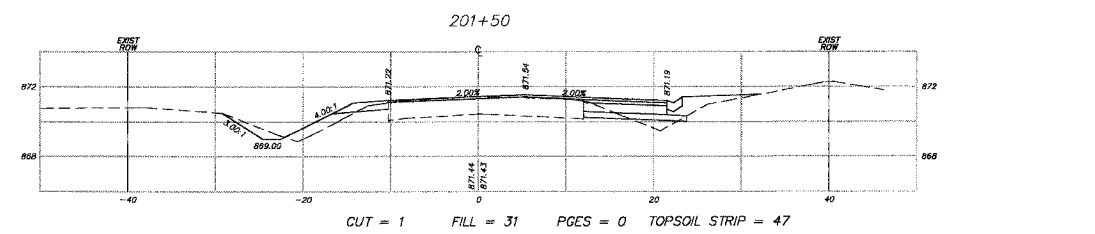
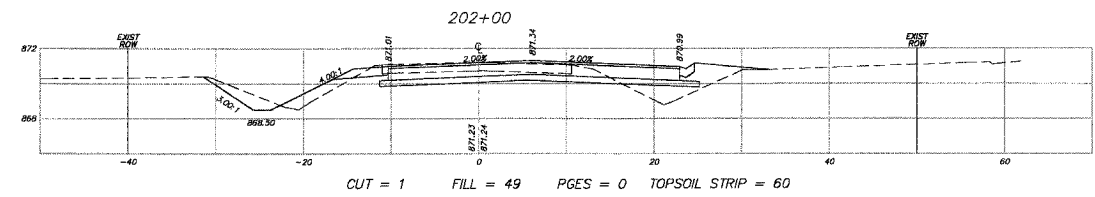
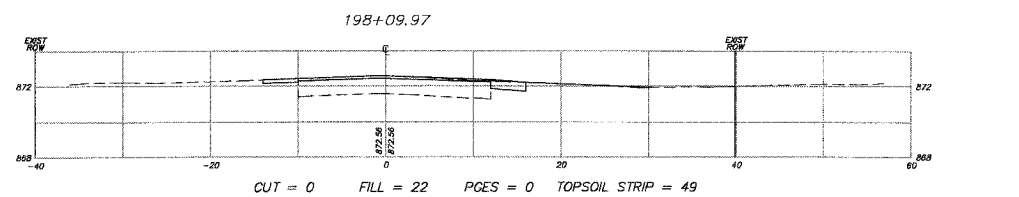
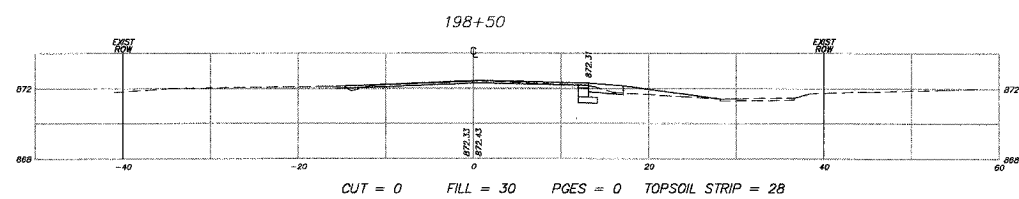
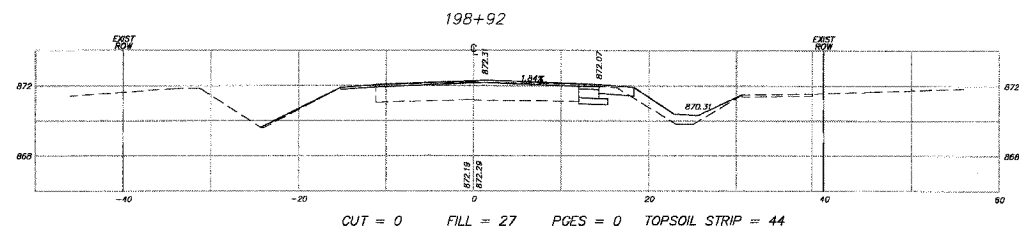
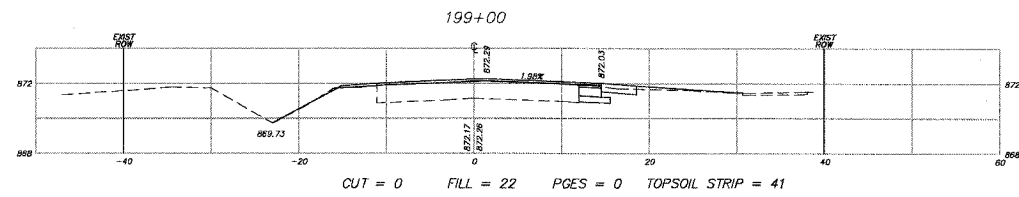
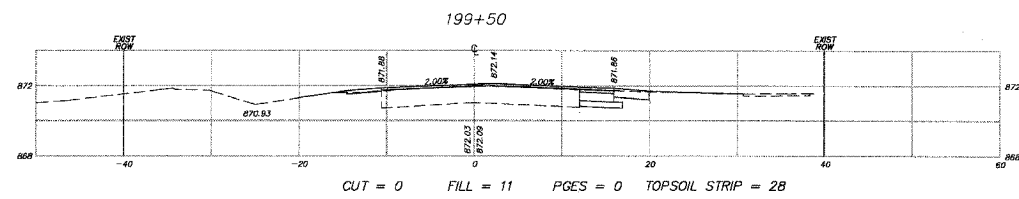
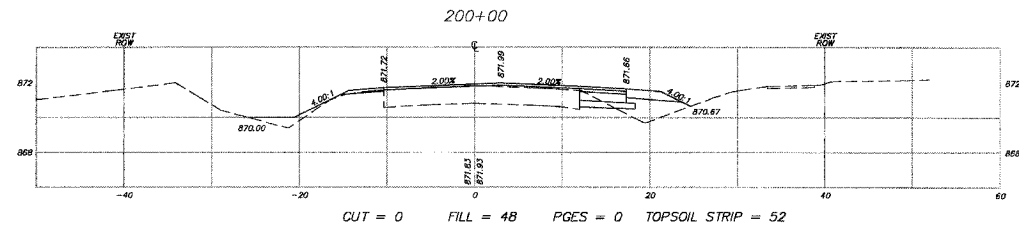
**CROSS SECTIONS FOR ACKMAN RD**

SCALE: H: 1"=10', V: 1"=5'  
 DATE 10-05-2005  
 DRAWN BY CJP  
 CHECKED BY TEH

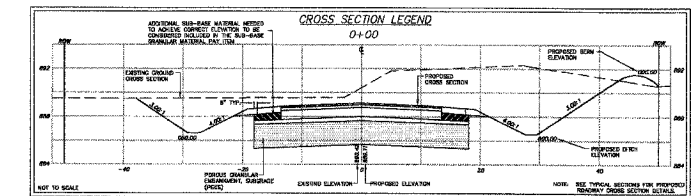
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	75
STA. 198+9.97	TO STA. 199+50			
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

83840



NOTE:  
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SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4800 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-386-1778 FAX: 815-386-1781  
www.smithengineering.com E-MAIL: sm@smithengineering.com  
MCHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

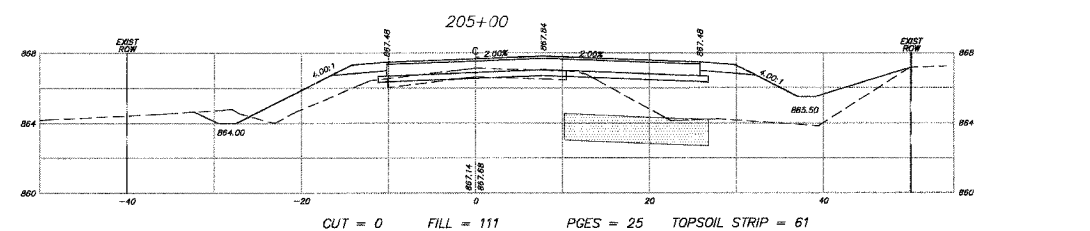
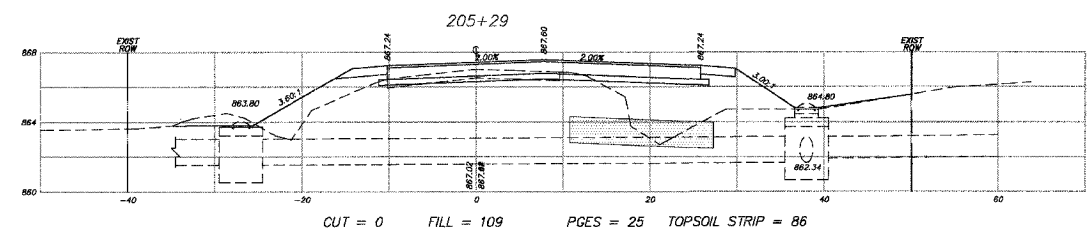
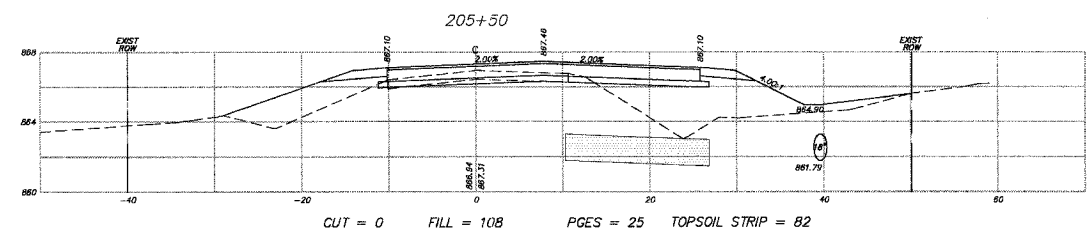
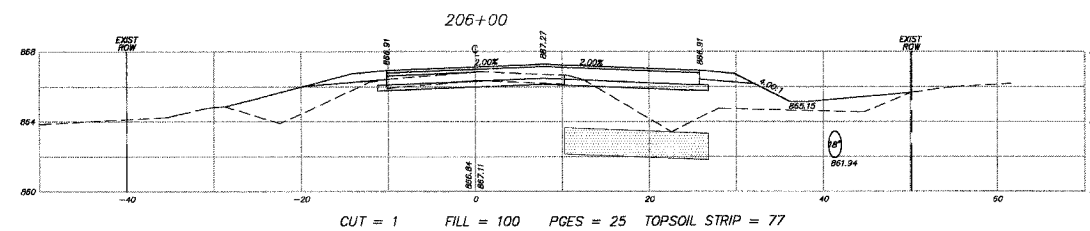
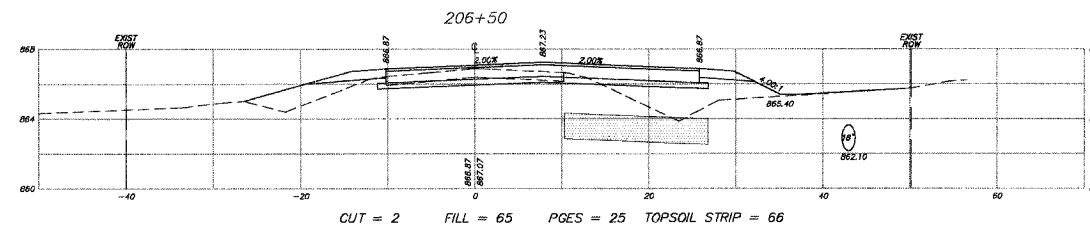
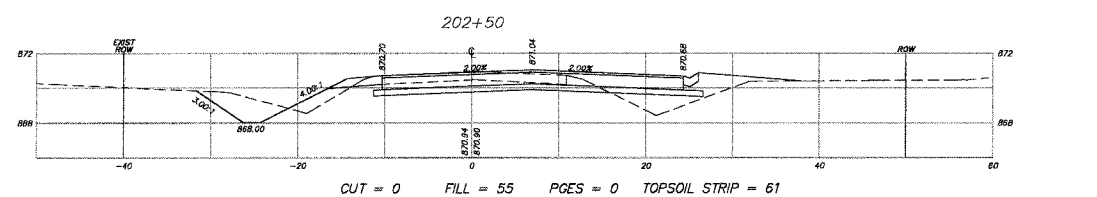
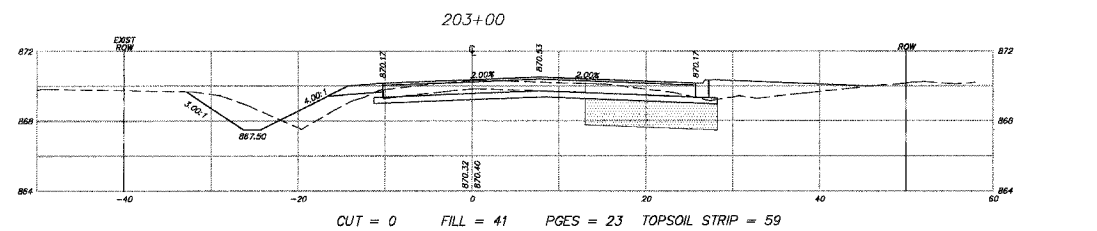
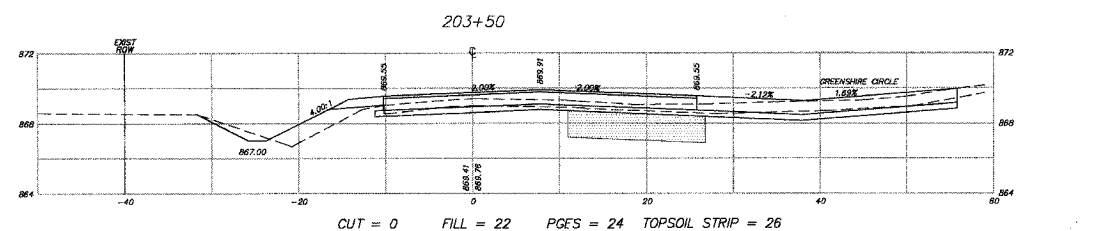
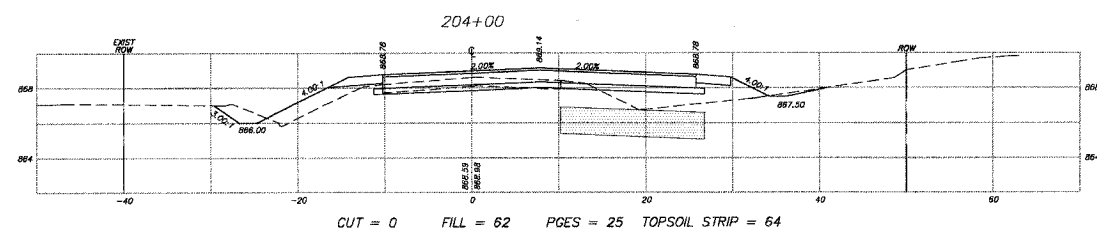
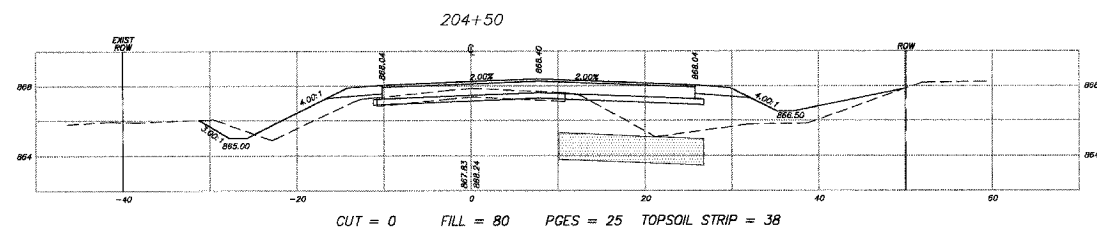
McHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

CROSS SECTIONS FOR  
HALIGUS RD

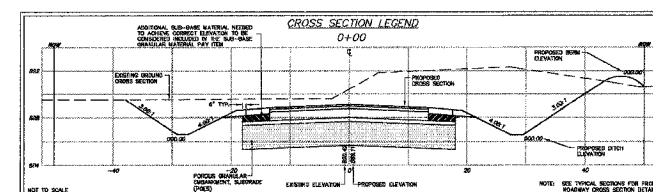
SCALE: H:1"=10', V:1"=5'  
DATE 04-16-04

DRAWN BY CJP  
CHECKED BY TEH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP	MCHENRY	MCHENRY	84	76
STA. 198+9.97	TO STA. 199+50	FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT		
B3B40				



NOTE:  
SEE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4000 PIERCE PARKWAY, SUITE 200  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1778 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
 ACKMAN ROAD EXTENSION

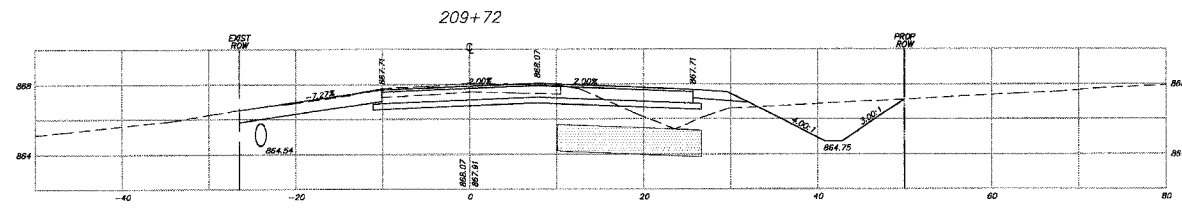
**CROSS SECTIONS FOR HALIGUS RD**

SCALE: H:1"=10', V:1"=5'  
 DATE 04-16-04 DRAWN BY CJP  
 CHECKED BY TEH

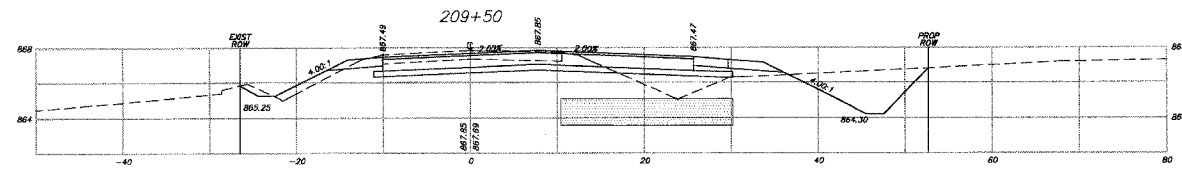
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 MEAN: 05-76  
 COMP: FILE: 032210smcshl10105.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP	MCHENRY	MCHENRY	84	77
STA.	200+00	TO STA.	204+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			

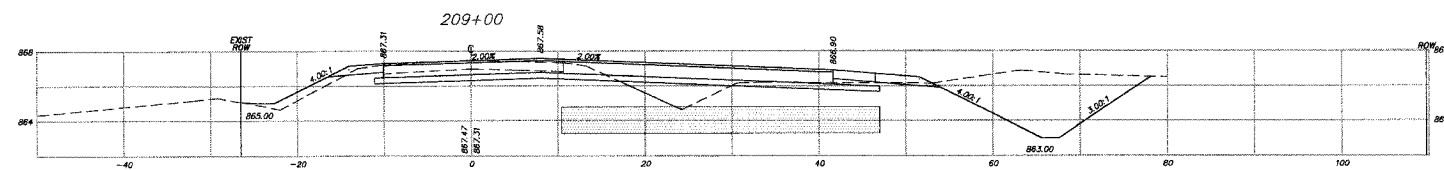
83840



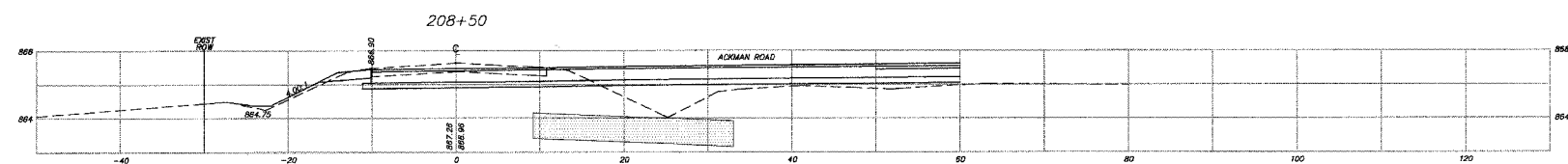
CUT = 14 FILL = 26 PGES = 25 TOPSOIL STRIP = 52



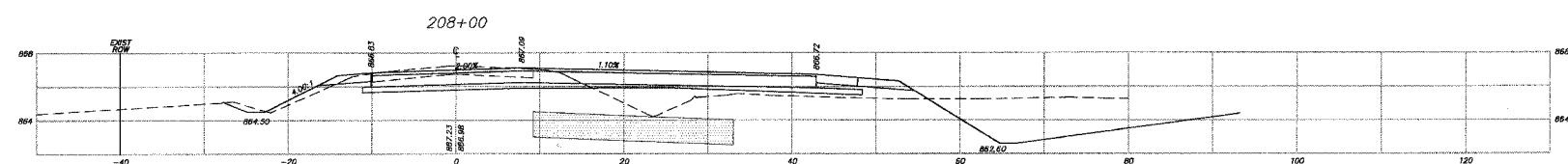
CUT = 16 FILL = 47 PGES = 30 TOPSOIL STRIP = 88



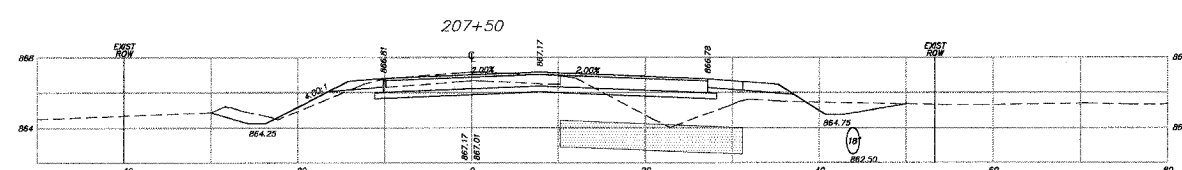
CUT = 41 FILL = 67 PGES = 55 TOPSOIL STRIP = 98



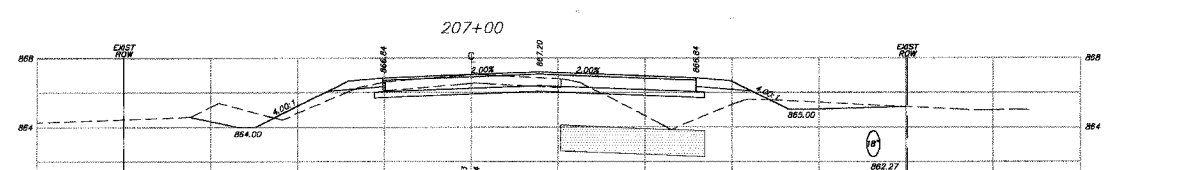
CUT = 23 FILL = 90 PGES = 36 TOPSOIL STRIP = 69



CUT = 56 FILL = 69 PGES = 36 TOPSOIL STRIP = 99

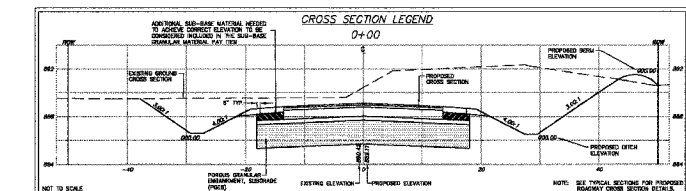


CUT = 22 FILL = 49 PGES = 32 TOPSOIL STRIP = 69



CUT = 27 FILL = 65 PGES = 25 TOPSOIL STRIP = 70

NOTE: SEE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 FRANK PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1776 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: see@smithengineering.com  
 MCHENRY HUNTLEY YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
 ACKMAN ROAD EXTENSION

**CROSS SECTIONS FOR HALIGUS RD**

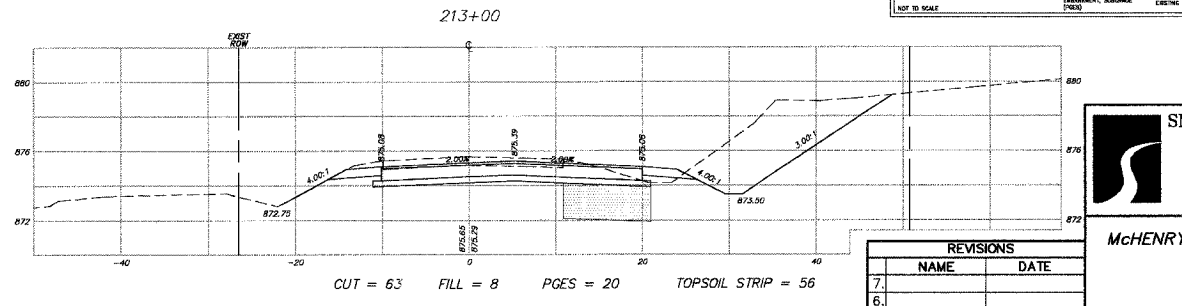
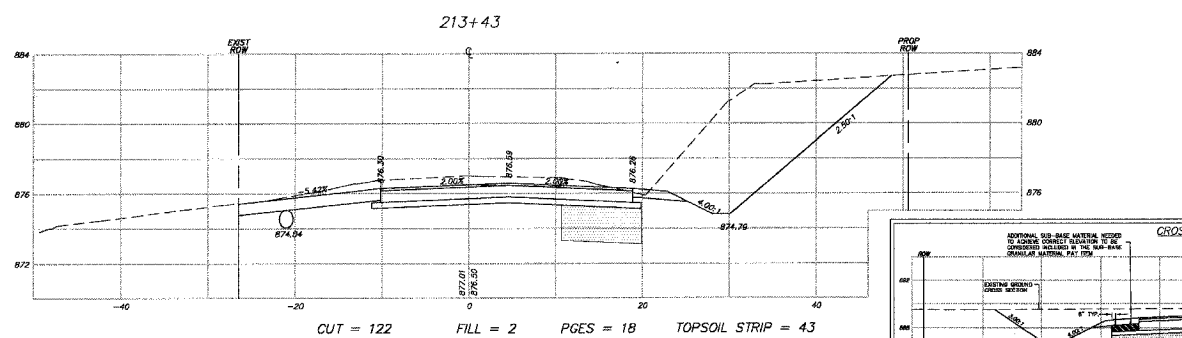
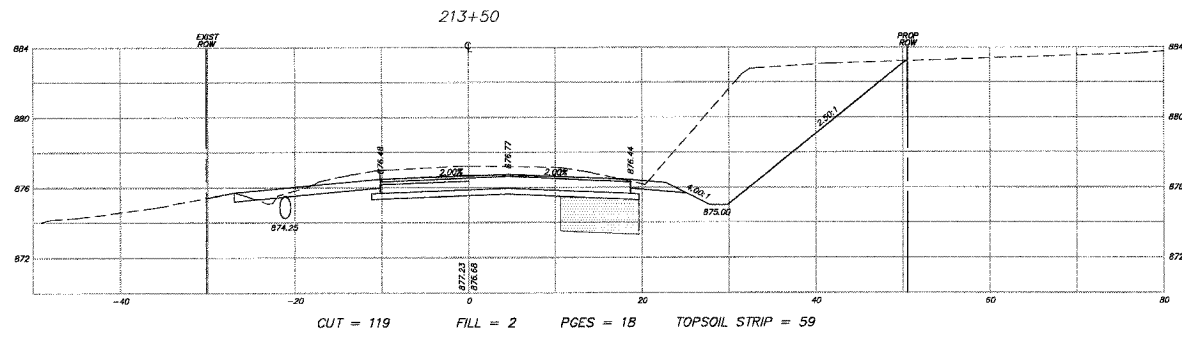
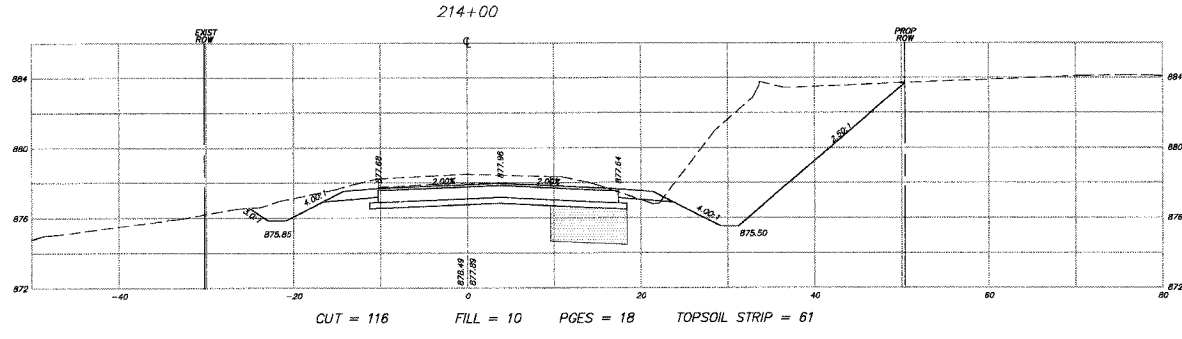
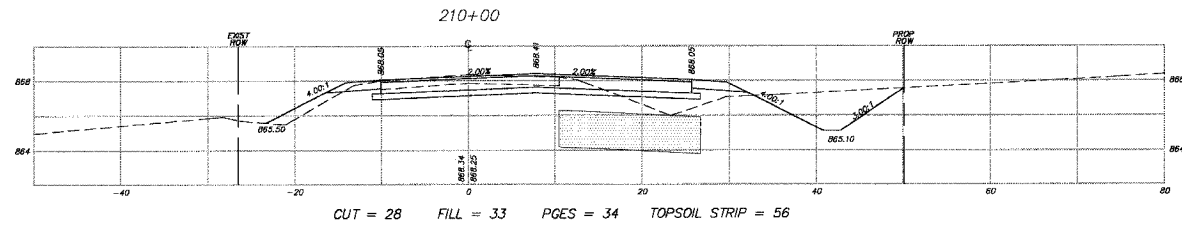
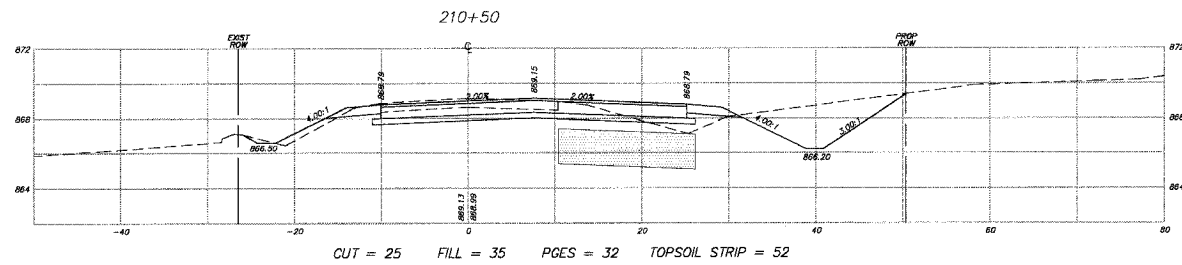
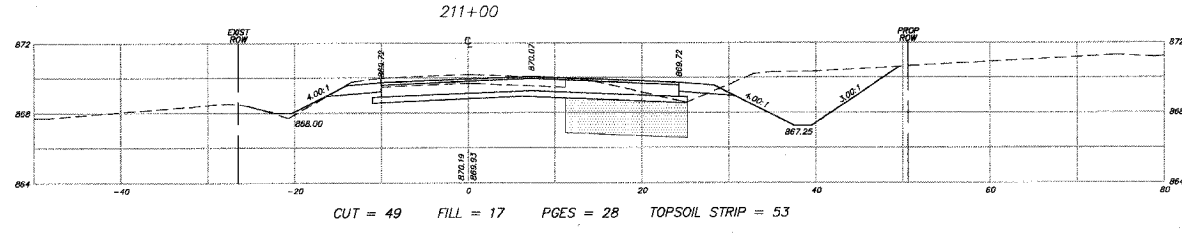
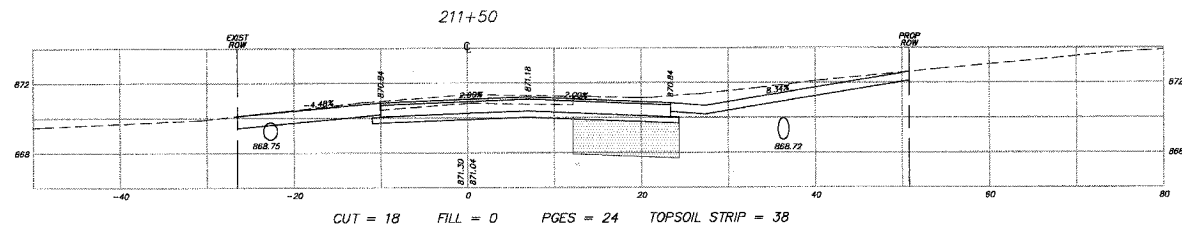
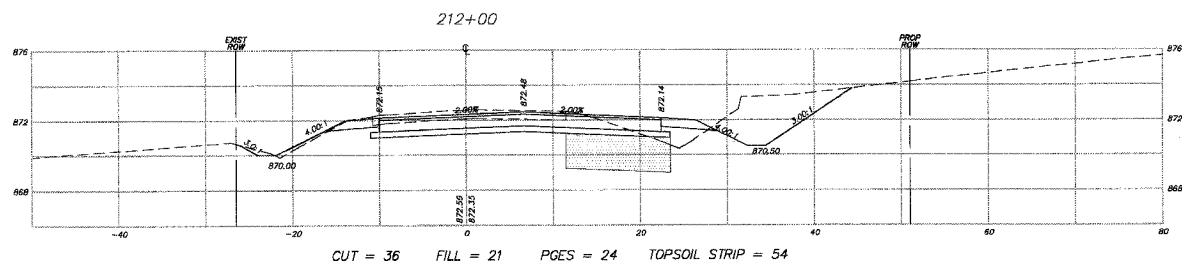
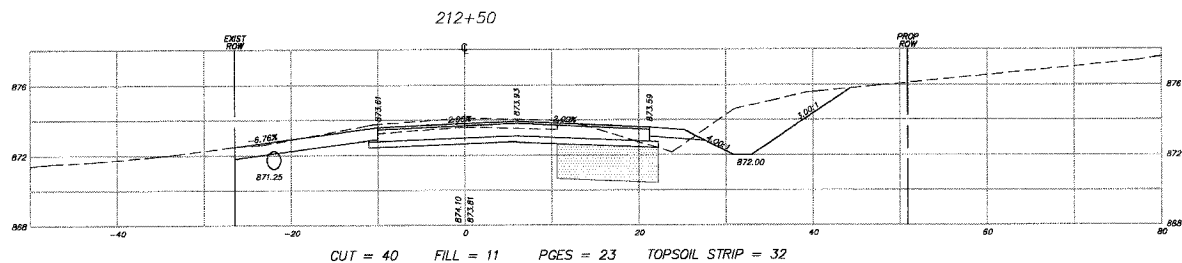
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 DATE 04-16-04

DRAWN BY CJP  
 CHECKED BY TH

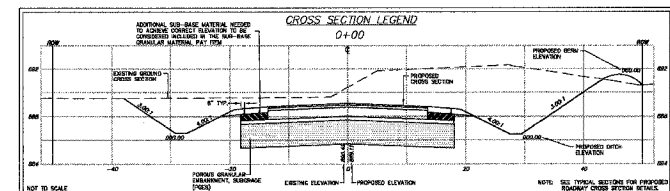
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 ME: CE-77  
 COMP. FILE: 0327Dmch/ALIGUS.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	78
STA.	210+00	TO STA.	214+00	
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

83840



NOTE:  
SEE EARTHWORK TABLE FOR A SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
NO.	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 FRANK PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-380-1778 FAX: 815-380-1781  
www.smithengineering.com E-MAIL: seo@smithengineering.com  
MCHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

**CROSS SECTIONS FOR HALIGUS RD**

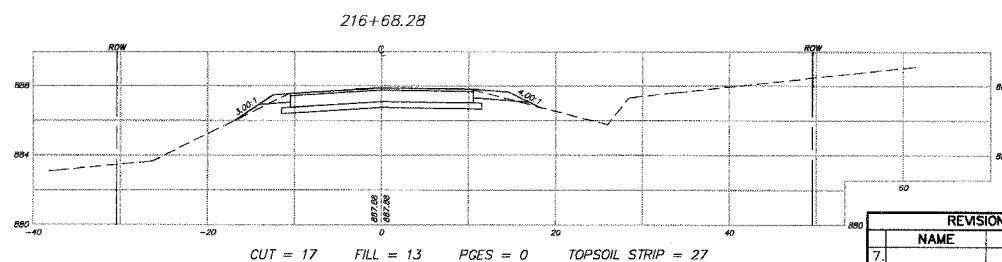
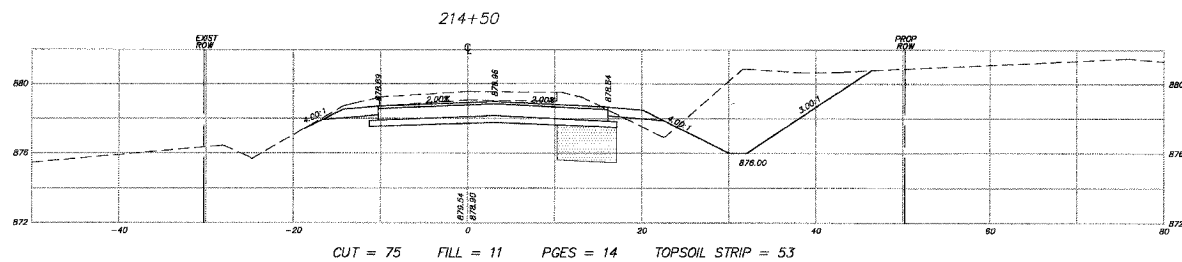
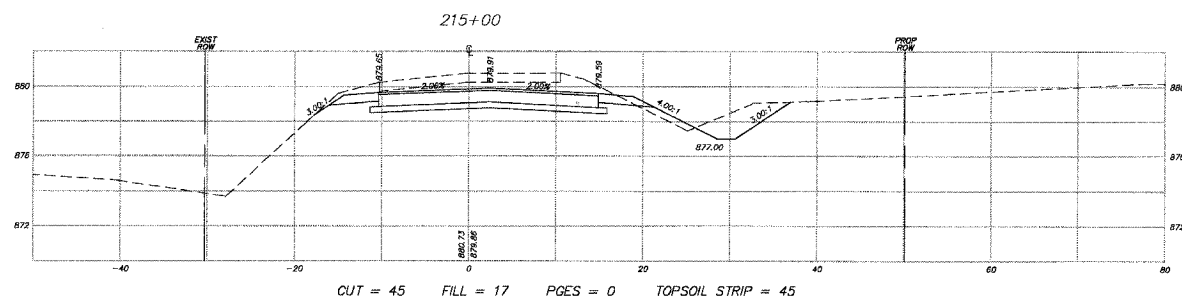
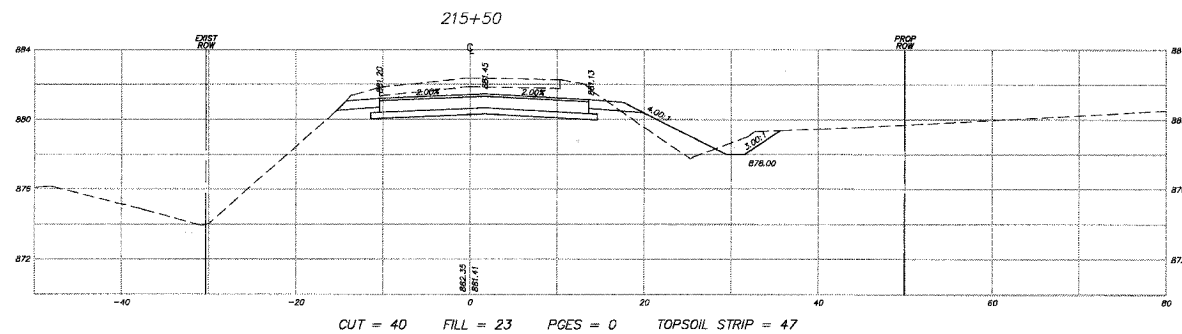
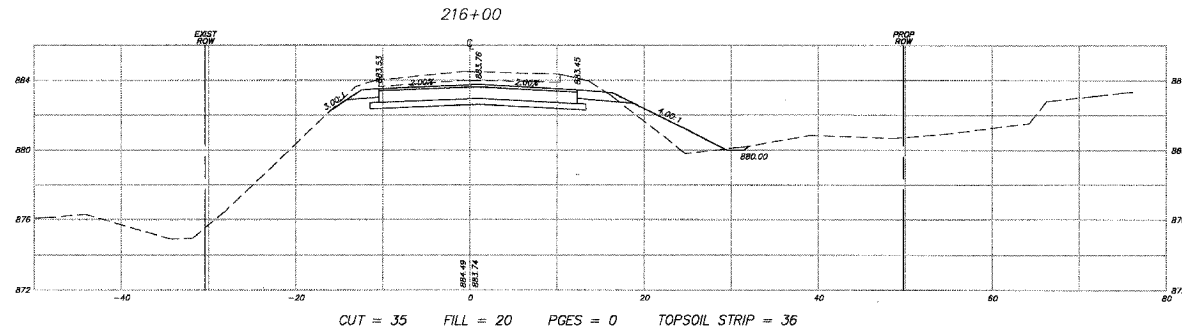
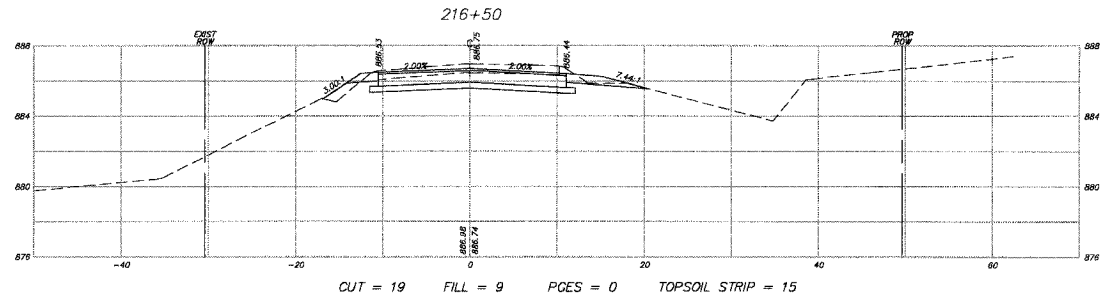
SCALE: H:1"=10', V:1"=5'  
DATE 10-05-2005  
DRAWN BY CJP  
CHECKED BY TEH

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COMP. FILE: 0.802102000HALIGUS.dwg

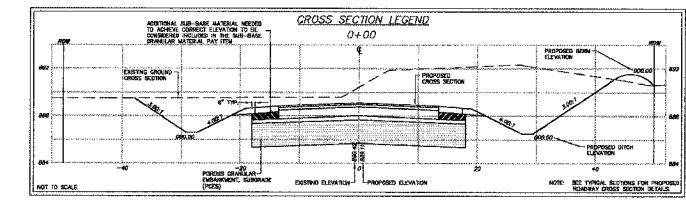


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP	MCHENRY	MCHENRY	84	79
STA. 214+50	TO STA. 216+68.28			
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

83840



NOTE:  
SEE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
 4500 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1776 FAX: 815-385-1781  
 www.smithengineering.com E-MAIL: sec@smithengineering.com  
 \* MCHENRY \* HUNTLEY \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

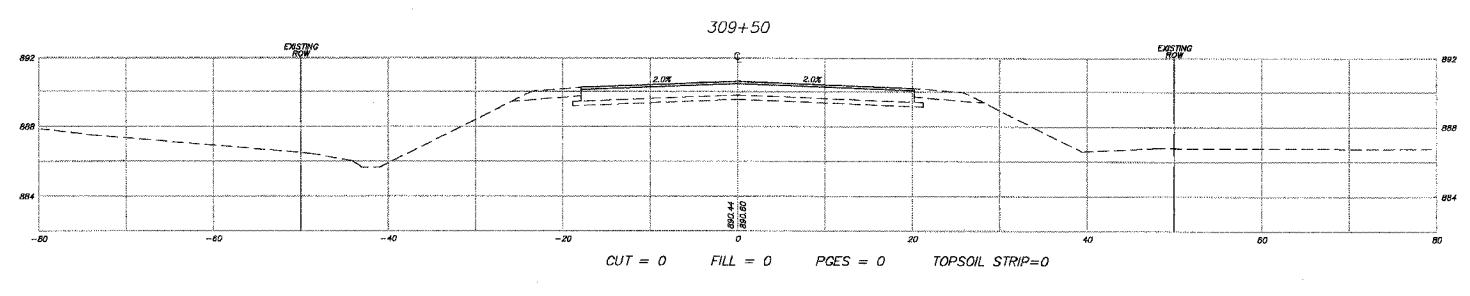
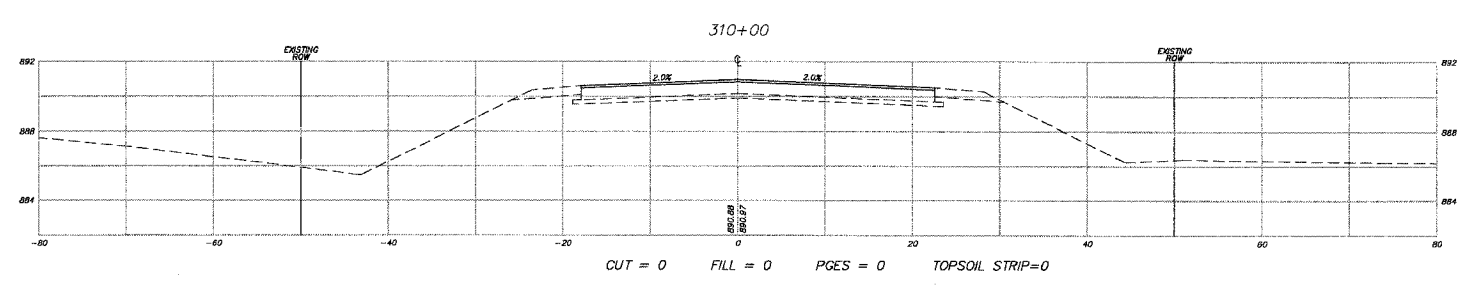
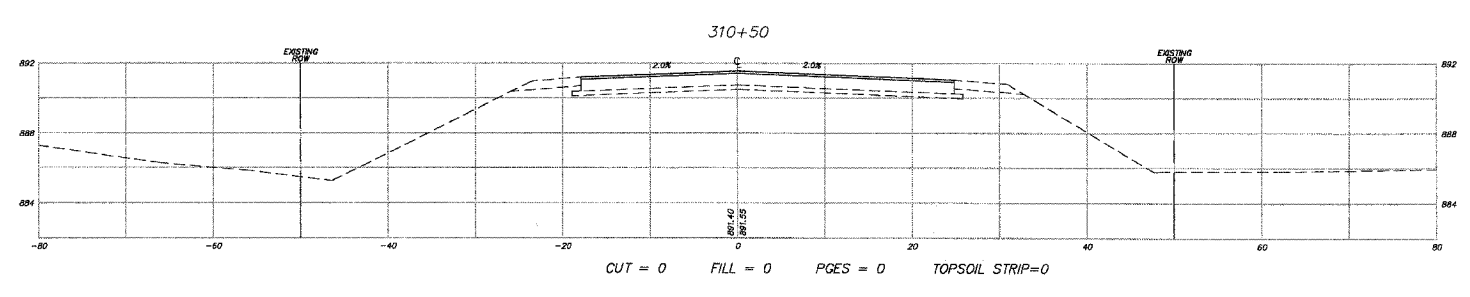
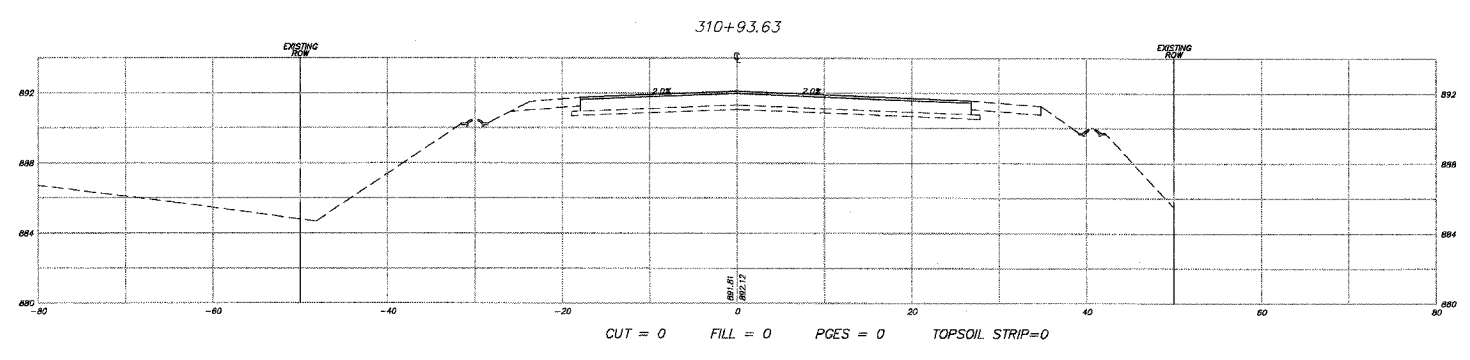
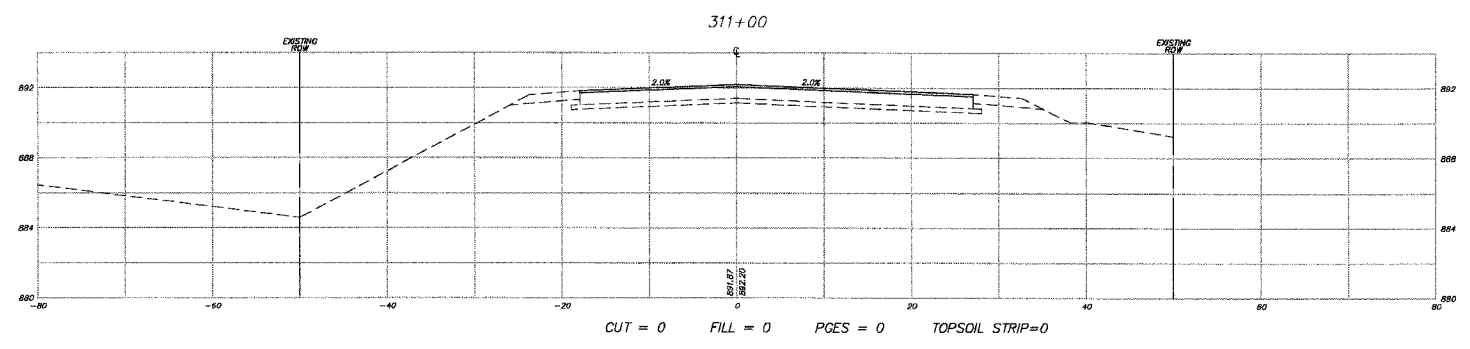
**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
 ACKMAN ROAD EXTENSION

**CROSS SECTIONS FOR HALIGUS RD**

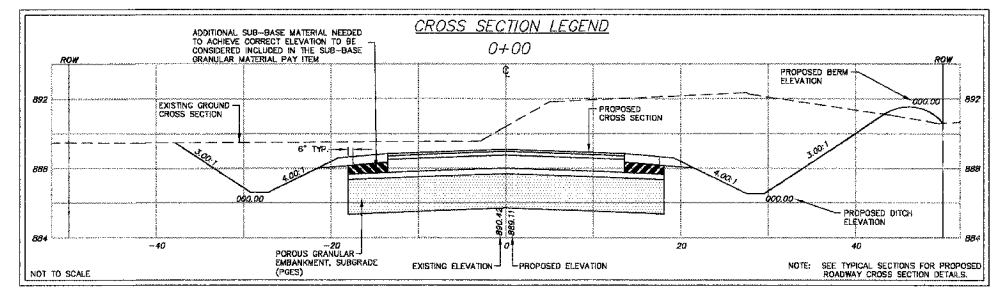
SCALE: H:1"=10', V:1"=5'  
 DATE 04-16-04  
 DRAWN BY CJP  
 CHECKED BY TEH

PLOT FILE: X  
 COMP. FILE: 03210secshALIGUS.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	80
STA. 309+50	TO STA. 311+50			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		



NOTE:  
SEE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
NAME	DATE
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CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
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PH: 815-385-1778 FAX: 815-385-1781  
www.smithengineering.com E-MAIL: sec@smithengineering.com  
MCHENRY HUNTERDON YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000106

MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

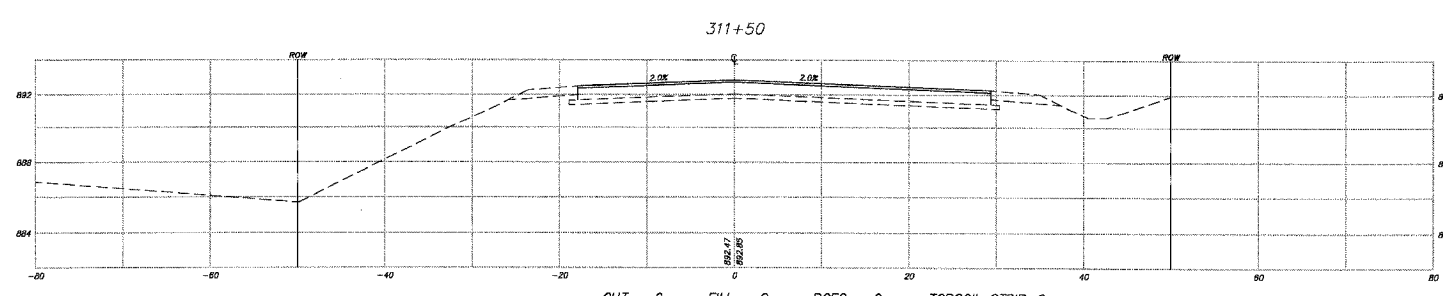
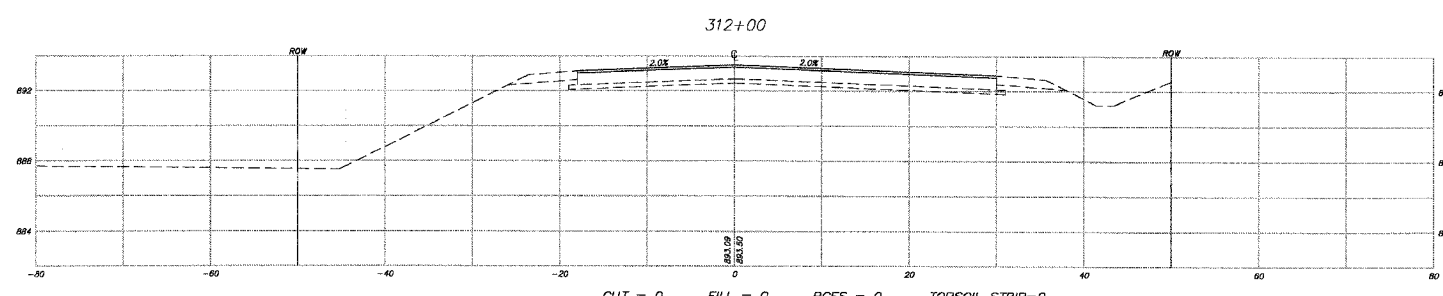
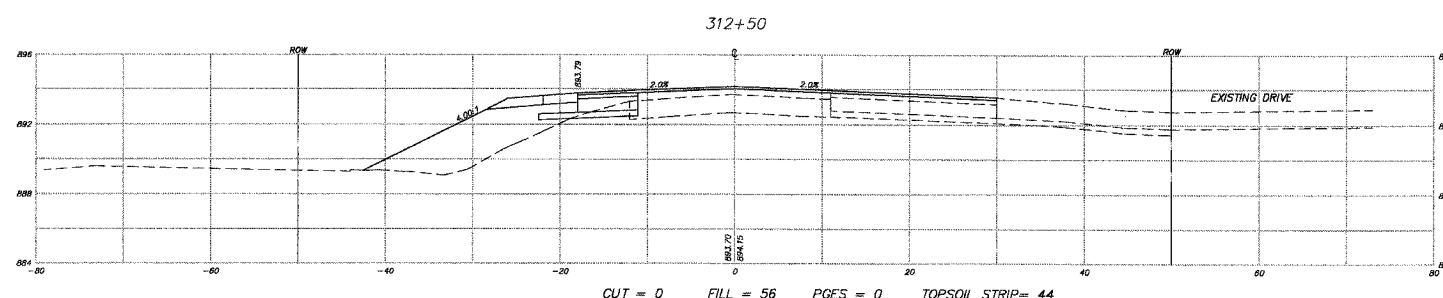
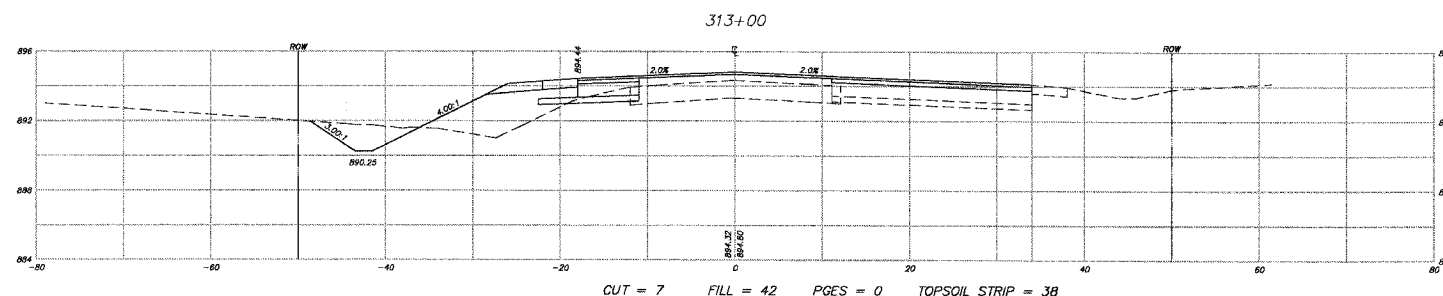
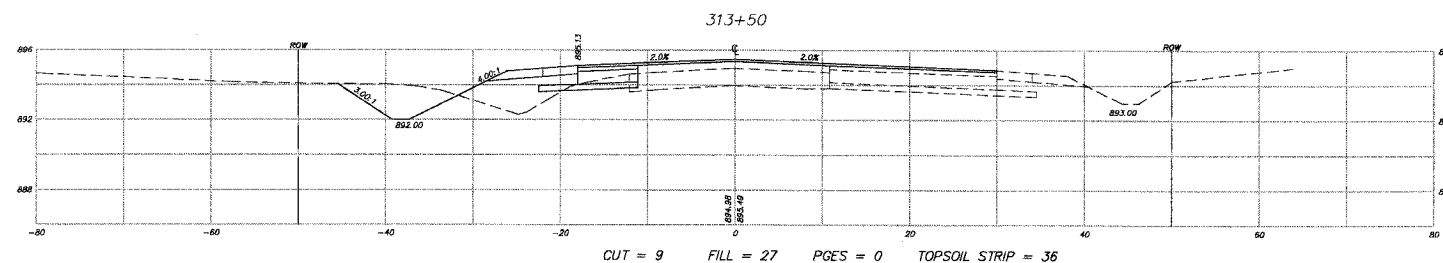
CROSS SECTIONS FOR  
LAKEWOOD RD

SCALE: H:1"=10', V:1"=5' DRAWN BY CJP  
DATE 10-05-2005 CHECKED BY TEH

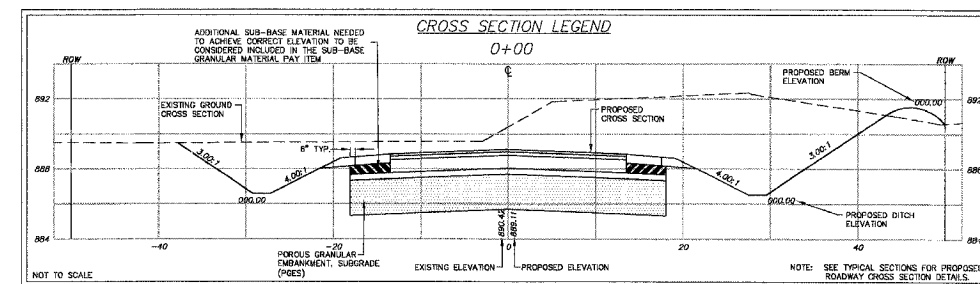
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VIEW: CE-80  
COMP. FILE: C:\DWG\3873\00-00243\00-FP\311+00.DWG

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	81
STA. 311+50	TO STA. 313+50			
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		

83840



NOTE:  
SEE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.



PLOT FILE: 092109mch/akfep000.dwg  
COMPA FILE: 092109mch/akfep000.dwg

REVISIONS	
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4650 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-385-1778 FAX: 815-385-1781  
www.smithengineering.com E-MAIL: ee@smithengineering.com  
McHENRY HUNTLEY YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

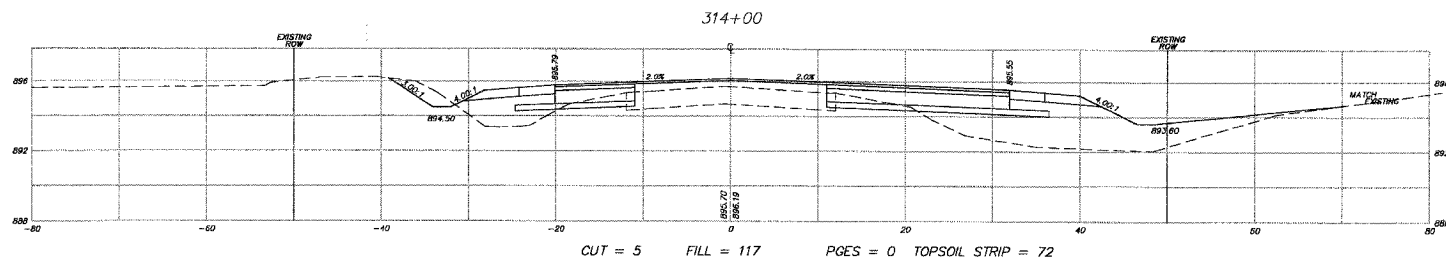
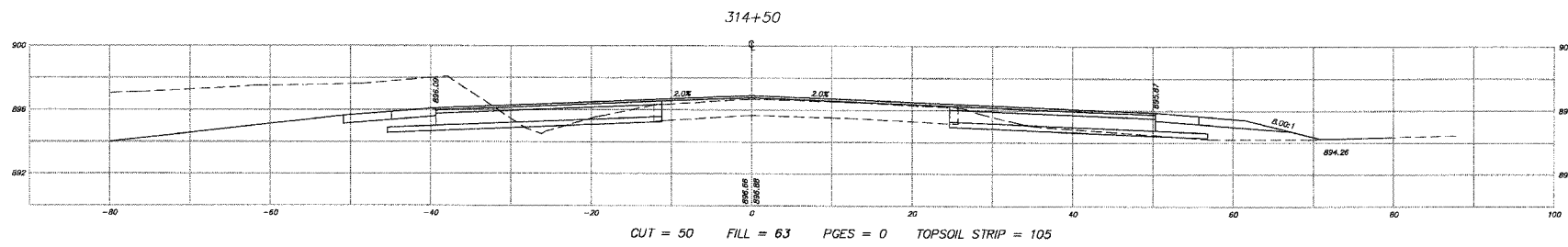
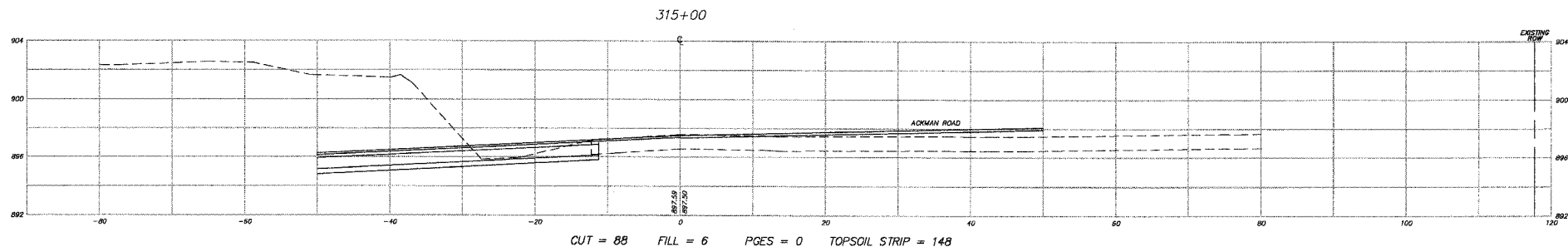
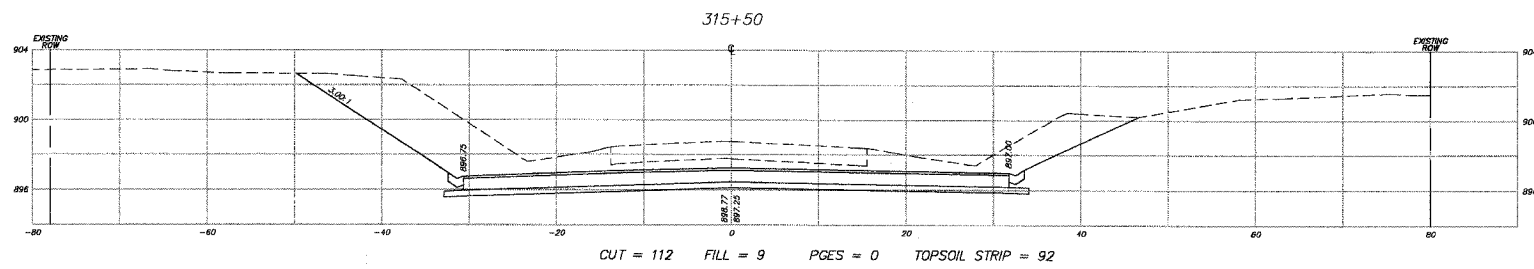
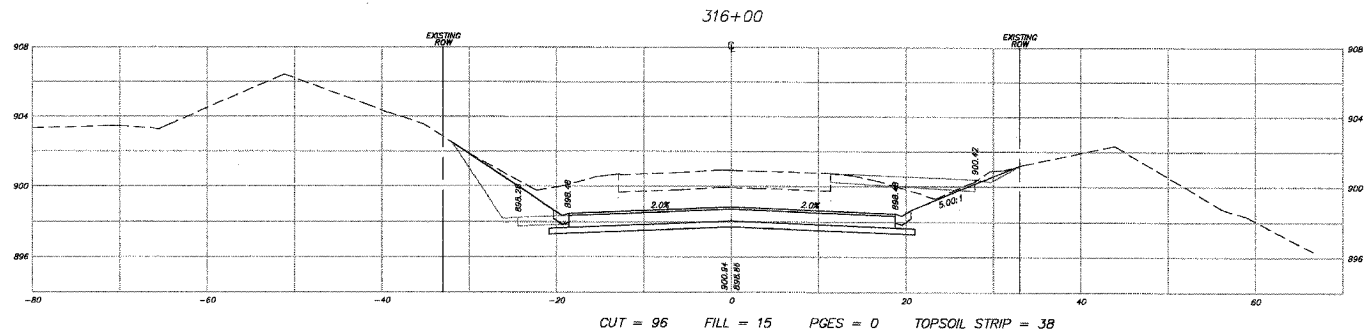
MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

CROSS SECTIONS FOR  
LAKEWOOD RD

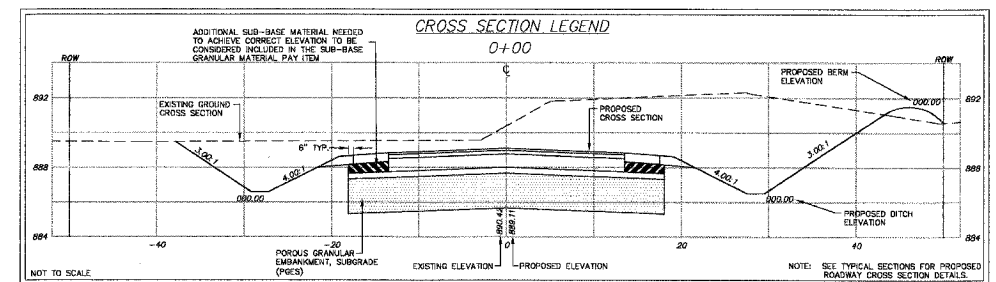
SCALE: H: 1"=10', V: 1"=5'  
DATE 10-05-2005

DRAWN BY CJP  
CHECKED BY TEH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3B73 00-00243-00-FP		MCHENRY	84	82
STA.	314+00	TO STA.	316+00	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT		83840	



NOTE:  
SEE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.



REVISIONS		
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**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-380-1778 FAX: 815-380-1781  
WWW.SMITHENGINEERING.COM E-MAIL: SEC@SMITHENGINEERING.COM  
• MCHENRY • HUNTER • YORKVILLE  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000106

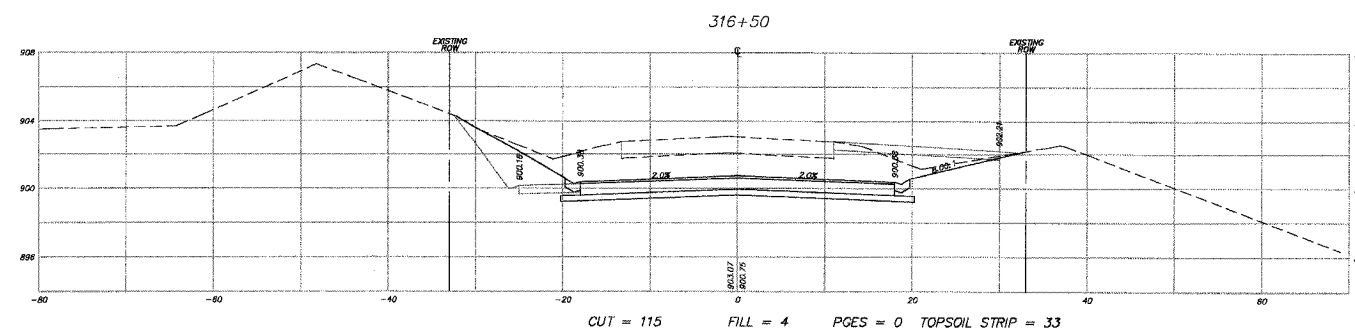
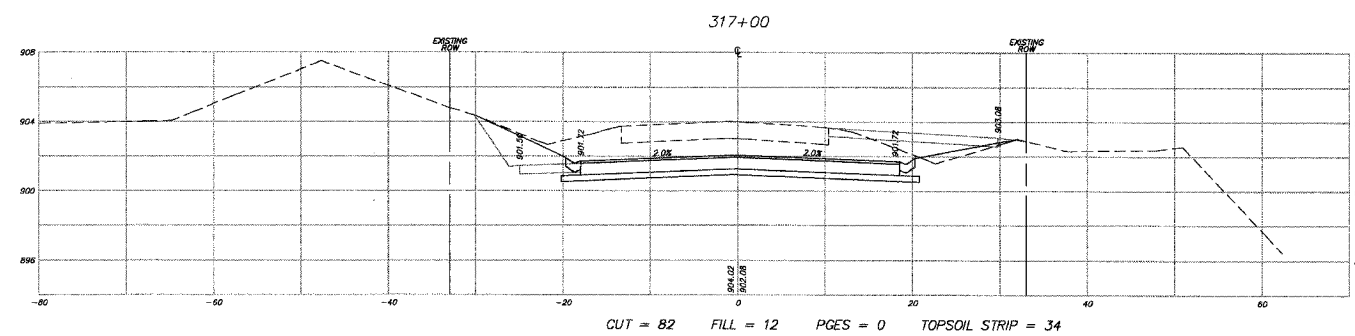
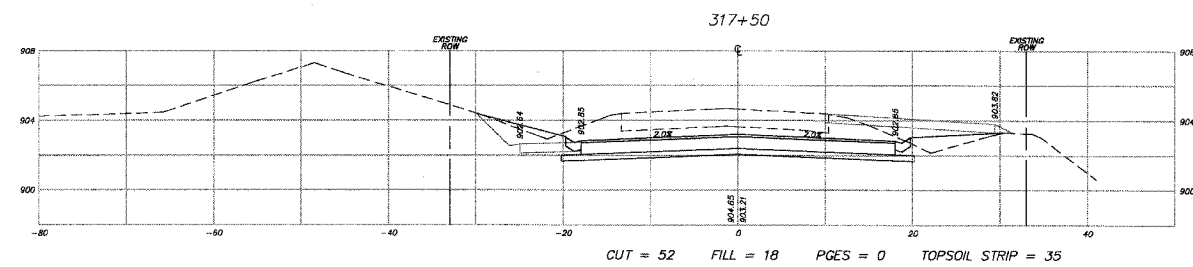
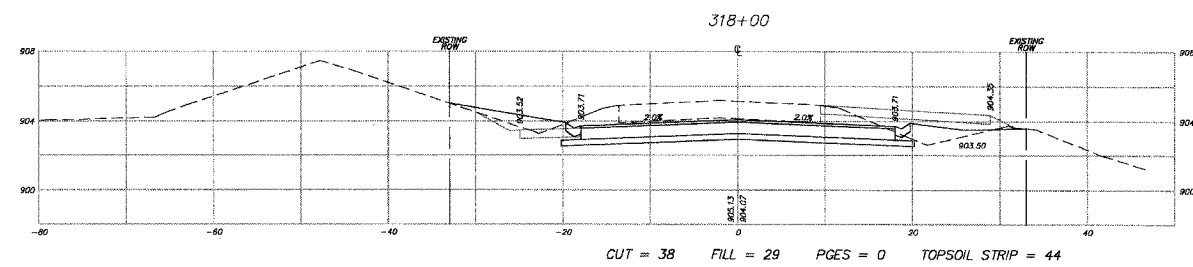
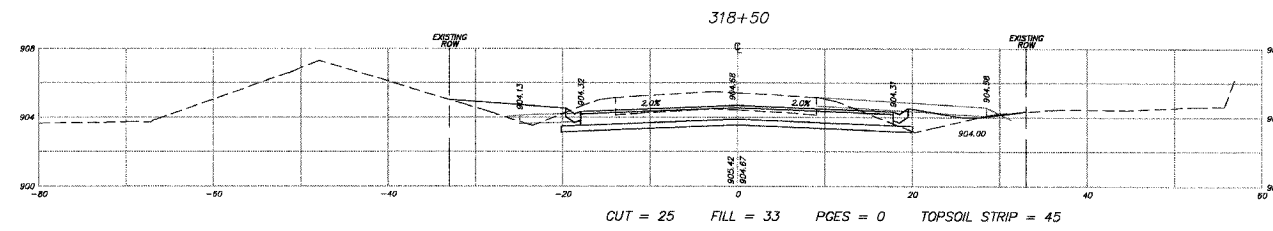
MCHENRY COUNTY DIVISION OF TRANSPORTATION  
ACKMAN ROAD EXTENSION

CROSS SECTIONS FOR  
LAKEWOOD RD

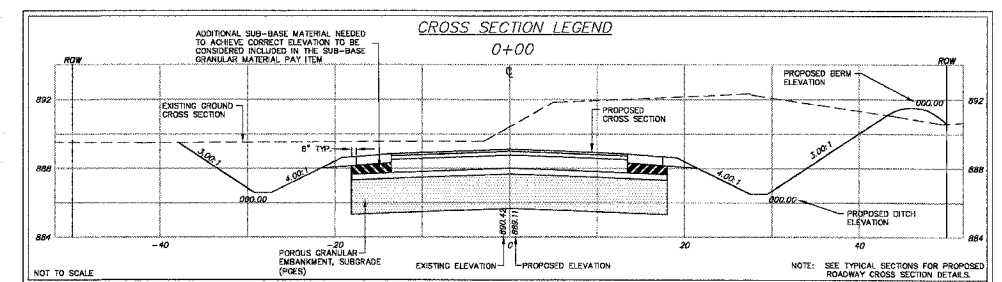
SCALE: H:1"=10', V:1"=5' DRAWN BY CJP  
DATE 10-05-2005 CHECKED BY TEH

PLOT FILE: \\MEM\CE-RP  
MEM\CE-RP  
COMP. FILE: 03271.DimensLakeWood.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	83
STA.	316+50	TO STA.	318+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT		83840	



NOTE:  
SEE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
NAME	DATE
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**SMITH ENGINEERING CONSULTANTS, INC.**  
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 4000 PRIME PARKWAY, SUITE 201  
 MCHENRY, ILLINOIS 60050  
 PH: 815-385-1778    FAX: 815-385-1781  
 www.smithengineering.com    E-MAIL: see@smithengineering.com  
 \* MCHENRY    \* MOUNTAIN VIEW    \* YORKVILLE  
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000106

**McHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKMAN ROAD EXTENSION**

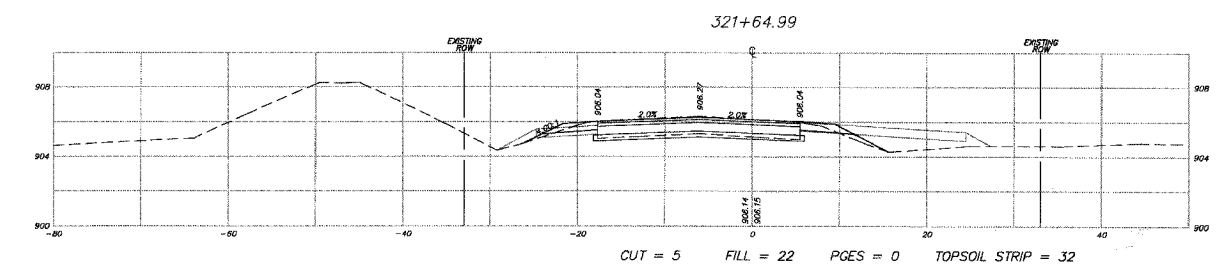
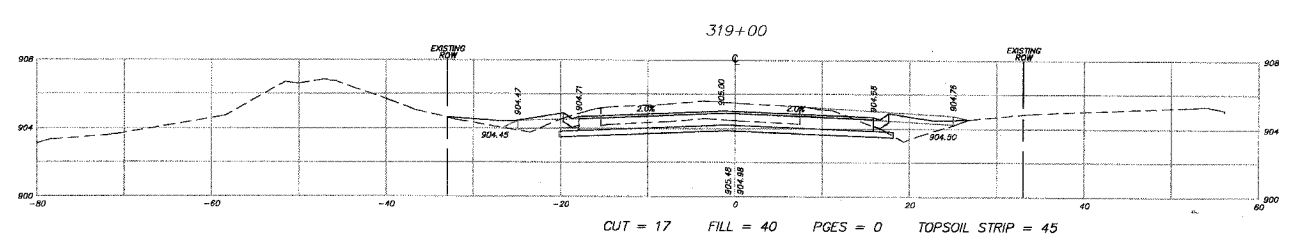
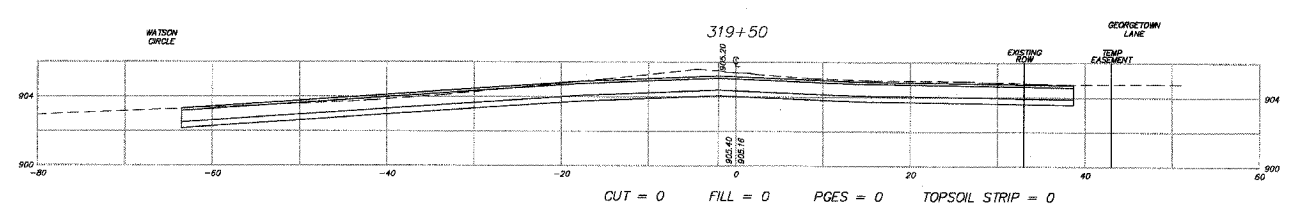
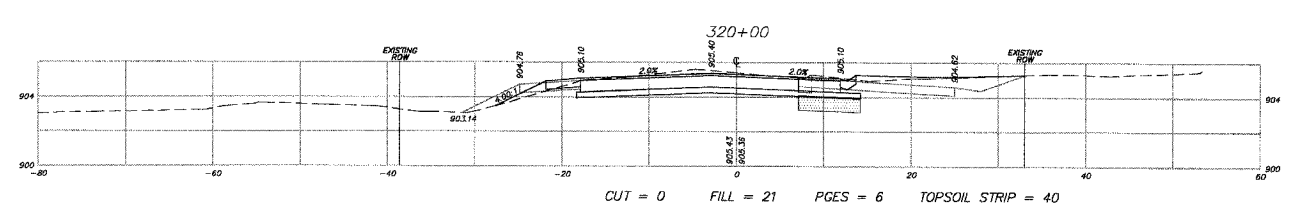
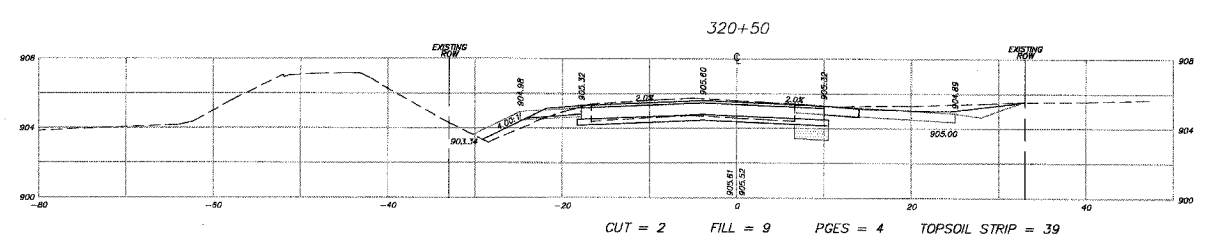
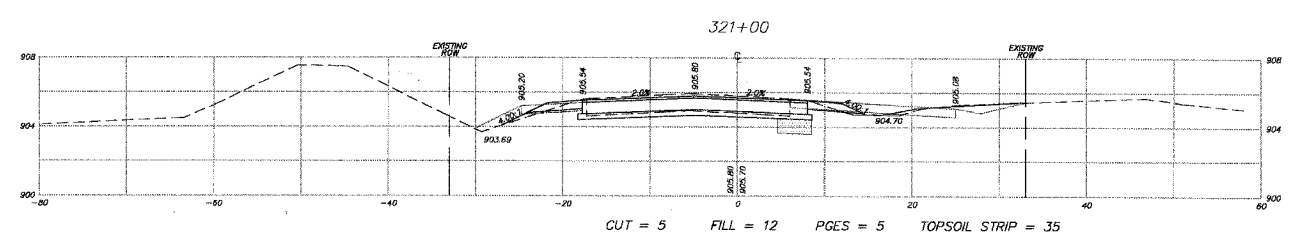
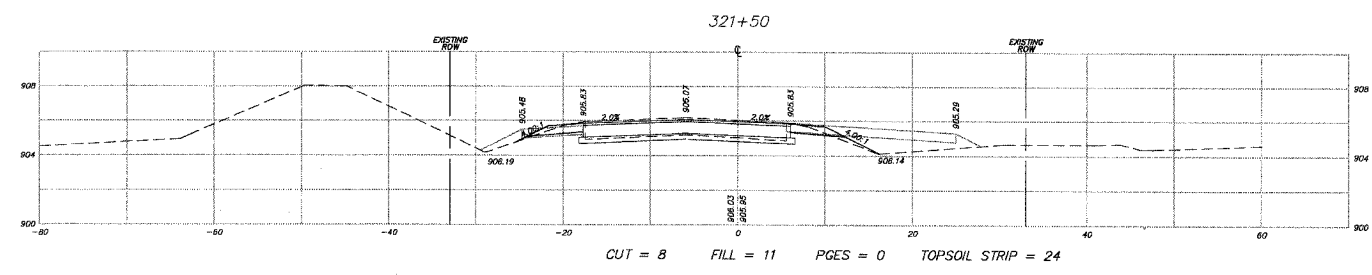
**CROSS SECTIONS FOR LAKEWOOD RD**

SCALE: H:1"=10', V:1"=5'      DRAWN BY CJP  
 DATE 10-05-2005      CHECKED BY TEH

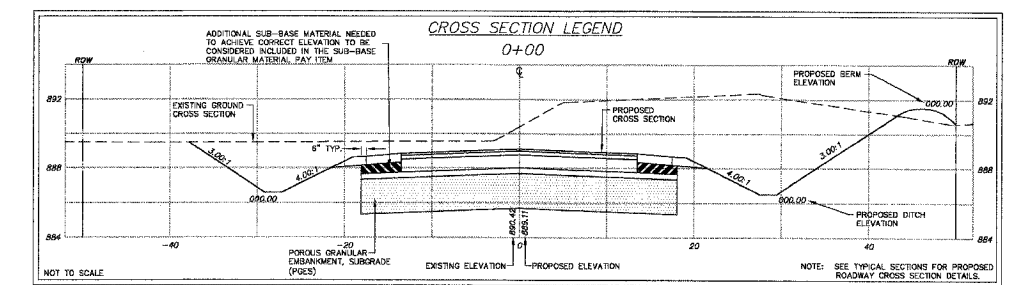
PLOT FILE: \\NEW-C2-83\CDMP\FILE: 03027\Drawn\AKEMOOD.dwg

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3873 00-00243-00-FP		MCHENRY	84	84
STA.	319+00	TO STA.	321+64.99	
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

83840



NOTE:  
SEE EARTHWORK TABLE FOR A  
SUMMARY OF THE CUTS AND FILLS.



REVISIONS	
NO.	DATE
7.	
6.	
5.	
4.	
3.	
2.	
1.	

**SMITH ENGINEERING CONSULTANTS, INC.**  
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS  
4500 PRIME PARKWAY, SUITE 201  
MCHENRY, ILLINOIS 60050  
PH: 815-385-1776 FAX: 815-385-1781  
www.smithengineering.com E-MAIL: sec@smithengineering.com  
\* MCHENRY \* HUNTERSBURG \* FORT VILLIARD  
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

**MCHENRY COUNTY DIVISION OF TRANSPORTATION**  
**ACKNOWNLEDGMENT**  
**CROSS SECTIONS FOR LAKEWOOD RD**  
SCALE: H:1"=10', V:1"=5'  
DATE 10-05-2005  
DRAWN BY CJP  
CHECKED BY TEH

PLOT FILE: 3873 00-00243-00-FP  
VIEW: CE-84  
COMP. FILE: D:\02\00243\00243.MXD