

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	1

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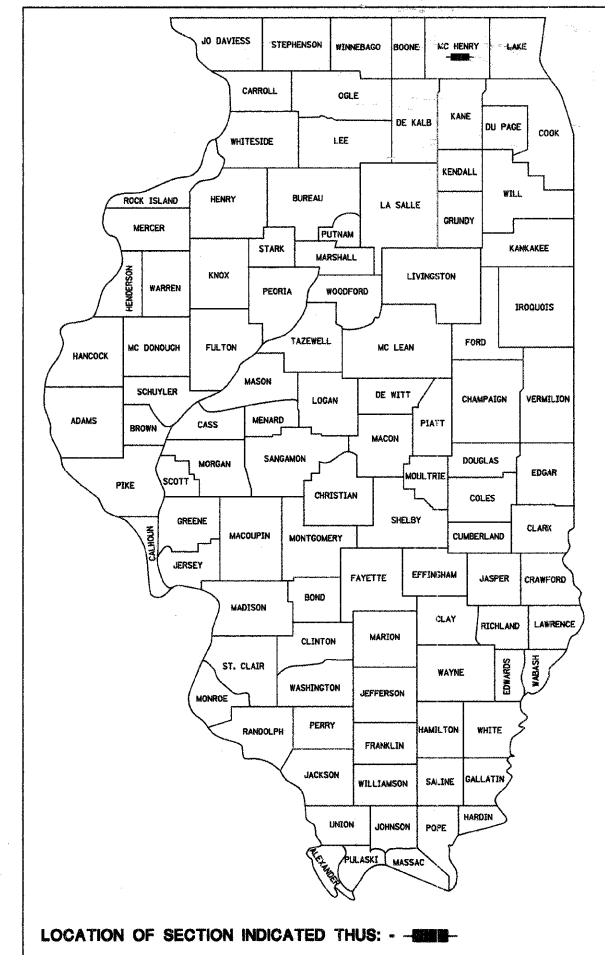
STATE STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
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- 602301-02 INLET - TYPE A
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- 602701-02 MANHOLE STEPS
- 604001-03 FRAME AND LIDS TYPE 1
- 604091-02 FRAME AND GRATE TYPE 24
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-02 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 729001-01 APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)
- 780001-02 TYPICAL PAVEMENT MARKINGS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

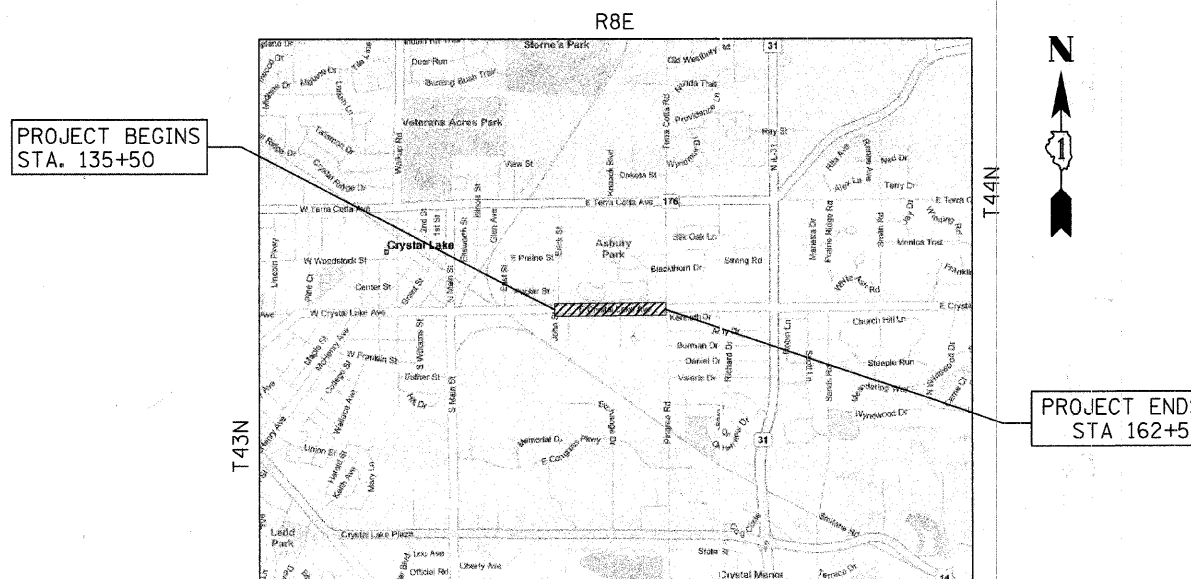
PLANS FOR PROPOSED IMPROVEMENT FEDERAL AID HIGHWAY

**EAST CRYSTAL LAKE AVENUE (FAU 116) (SEGMENT 2)
ERICK STREET (FAU 125) TO PINGREE ROAD (FAU 126)
ROADWAY WIDENING, RESURFACING
MFT SECTION: 06-00104-02-WR
PROJECT M-8003(997)
MCHENRY COUNTY
C-91-383-08**



TRAFFIC DATA

ADT: 9000 (2008), 11000 (2030)
SPEED LIMIT: 30 MPH (DESIGN)
SPEED LIMIT: 30 MPH (POSTED)

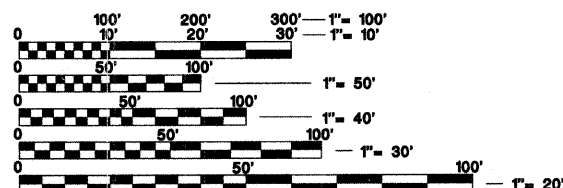


LOCATION MAP



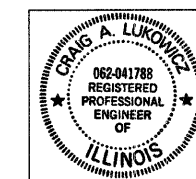
GROSS LENGTH OF PROJECT = 2703 LIN. FT. (0.51 MILES)
NET LENGTH OF PROJECT = 2703 LIN. FT. (0.51 MILES)
PROJECT LOCATED IN THE CITY OF CRYSTAL LAKE

**PROJECT LOCATED IN
THE CITY OF CRYSTAL LAKE**



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.

JULIE.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123



Craig A. Lukowicz
CRAIG A. LUKOWICZ
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-041788
MY LICENSE EXPIRES ON 11-30-09.

DATE 10/20/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *[Signature]* OCTOBER 21, 2008
[Signature] CITY OF CRYSTAL LAKE

PASSED NOVEMBER 5, 2008
[Signature] ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON
LIMITED REVIEW NOVEMBER 5, 2008
[Signature] DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONSULTING ENGINEERS SCIENTISTS & LAND SURVEYORS **BL** Bollinger, Lach & Associates, Inc.
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www.bollingerlach.com

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	2
STA.			TO STA.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2009; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION; THE DETAILS IN THE PLANS; AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
2. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE CITY OF CRYSTAL LAKE.
3. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.

UTILITIES

1. THE CONTRACTOR SHALL COOPERATE WITH THE CITY AND STATE IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE CITY OR STATE WITHIN THE DURATION OF THE CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
3. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED, THIS WORK SHALL BE ARRANGED BY THE UTILITY COMPANY AND SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL NOTIFY THE CITY OF CRYSTAL LAKE PUBLIC WORKS DEPARTMENT AT (815) 459-2020 48 HOURS IN ADVANCE OF ALL WATER MAIN SHUT DOWNS, UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.
6. THE USE OF CITY WATER SHALL BE METERED WITH A HYDRANT METER/PPZ UNIT RENTED FROM THE CITY. THE HYDRANT METER RENTAL AND EQUIPMENT DEPOSITS SHALL BE IN ACCORDANCE WITH THE CITY GUIDELINES.

STAKING

1. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
2. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE BACK OF CURB, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN AT POINTS OF CURVE, ETC., ARE TOP OF CURB, UNLESS OTHERWISE NOTED.
3. STRUCTURE OFFSET. LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS: A) FOR STRUCTURES FALLING IN THE CURB LINE--TO THE EDGE OF PAVEMENT; B) FOR ALL OTHER STRUCTURES--TO THE CENTER OF THE STRUCTURE.
4. ALL ELEVATIONS ARE ON U.S.G.S. DATUM.
5. ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, BACKS OF CURB, ETC. ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.

SEWERS AND WATER MAINS

1. ANY LOOSE MATERIAL, DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
2. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
3. ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR ANY MANHOLE, CATCH BASIN, INLET, DRY WELL VALVE VAULT, OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: FOR STORM SEWER STRUCTURES--"STORM"; FOR SANITARY SEWER STRUCTURES--"SANITARY"; FOR WATER SYSTEM STRUCTURES--"WATER". ANY ADDITIONAL COST FOR THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FRAME AND CLOSED LID PROVIDED.
4. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED.
5. WHEN RELOCATING FIRE HYDRANTS, REPLACE ANY EXISTING SUBSURFACE NON-STAINLESS STEEL HARDWARE, RESTRAINING RODS, ETC. WITH STAINLESS STEEL, PER THE CITY'S STANDARD SPECIFICATION.
6. ANY UNUSED WATER MAIN MUST BE ABANDONED AT EXISTING WATER MAIN TEE PER CITY DETAILS.

BACKFILL

1. STORM SEWER, WATER MAIN, AND SANITARY SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER.
2. ALL TRENCH BACKFILL QUANTITIES FOR STORM AND SANITARY SEWER AND WATER MAIN HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE.
3. TRENCH BACKFILL SHALL BE GRADATION CA 6 CRUSHED STONE OR GRAVEL.

SIGNS

1. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
2. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
 1. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.
 2. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT IS INTENDED. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.
 3. ALL SIGNS SHALL BE RE-ERECTED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. HORIZONTAL LOCATION FROM THE EDGE OF PAVEMENT SHALL BE AS DESIGNATED BY THE ENGINEER.
 4. ALL UNUSED SIGNS WILL BE RETURNED TO THE CITY.
 5. LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

MISCELLANEOUS

1. THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET ACCESS, EXISTING DRIVEWAY ACCESS, AND PEDESTRIAN ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT, UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER.
2. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
3. AT ALL BUTT JOINT LOCATIONS THE EXISTING SURFACE SHALL BE CUT TO A MINIMUM THICKNESS OF ONE AND ONE-HALF (1-1/2) INCHES, OR TWO (2) INCHES AS INDICATED ON THE PLANS.
4. THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT MIX ASPHALT MIXTURES ARE TO BE PLACED.
5. PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE AND TOP OF CURB, P.C.C. SIDEWALK, P.C.C. DRIVEWAY PAVEMENT, AND AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FRESH CONCRETE FROM DAMAGE AND VANDALISM. ANY DAMAGED OR VANDALIZED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
7. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
8. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.
9. TYPE "A" CURB RAMPS SHALL BE INSTALLED AT ALL INTERSECTING STREETS AND DRIVEWAYS PER CURRENT IDOT STANDARDS AT LOCATIONS WHERE SIDEWALK IS SHOWN ON PLAN.
10. THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSTABLE MATERIALS.
11. ALL DISTURBED AREAS WITHIN THE PROJECT THAT ARE NOT OTHERWISE SURFACED SHALL BE CLEARED, LAYERED WITH TOPSOIL, AND SEEDED OR SODDED AS SHOWN IN THE PLANS.
12. USE A FERTILIZER WITH AN ANALYSIS OF 1:1 RATIO AT THE FOLLOWING RATE PER ACRE:

	SEEDING	SODDING
NITROGEN FERTILIZER NUTRIENT	90 LBS.	60 LBS.
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS.	60 LBS.
POTASSIUM FERTILIZER NUTRIENT	90 LBS.	60 LBS.
13. SUPPLEMENTAL WATERING SHALL BE PERFORMED WHEN DIRECTED BY THE ENGINEER AT A RATE OF 10 GAL PER SQ. YD.
14. THE CONTRACTOR SHALL DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER EXCAVATED MATERIAL. NOT FOR SALVAGE AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE EACH DAY.
15. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL EXISTING MAILBOXES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS, AND AFTER COMPLETION OF ROADWAY CONSTRUCTION, TO SET THEM IN THEIR PERMANENT LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN CONFORMANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, AND THE COST WILL BE CONSIDERED INCLUDED IN THE CONTRACT.
16. FOR STEEL BARS CERTIFICATION, PLEASE CONTACT KAMIL RIZKO, IDOT BUREAU OF MATERIALS AT (847) 705-4688.
17. THE CONTRACTOR SHALL PROVIDE SAW CUTTING AT THE EXISTING PAVEMENT EDGE FOR THE PROPER CONSTRUCTION OF THE ROADWAY WIDENING AS DIRECTED BY THE ENGINEER. THE COST OF THIS ITEM SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT PAY ITEMS.
18. THE POROUS GRANULAR EMBANKMENT (PGE) PAY ITEM AND QUANTITIES ARE PROVIDED AS AN ESTIMATE AS THE SOIL REPORT COULD NOT SPECIFY THE LOCATION OF UNDERCUT. THE ACTUAL DEPTH OF UNDERCUT TREATMENT FOR PGE SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.

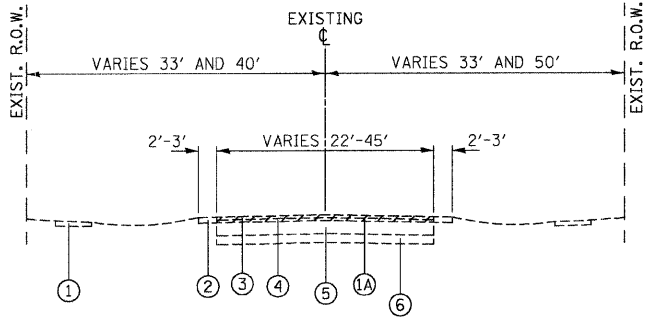
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

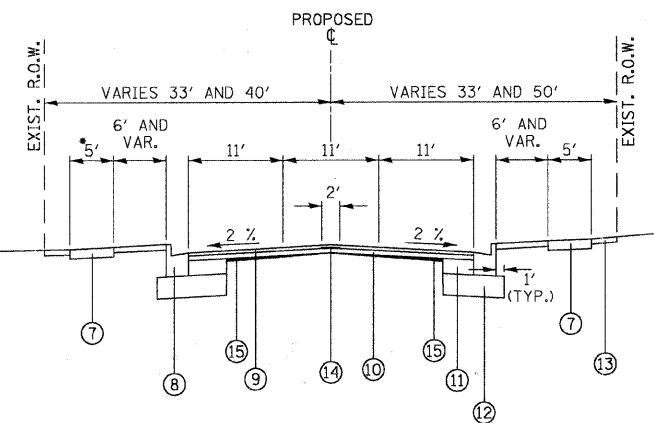
GENERAL NOTES

SCALE: NONE
DATE 10/30/08
DRAWN BY LP
CHECKED BY JIP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	3
STA. 137+17 TO STA. 162+53		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CRYSTAL LAKE AVENUE
EXISTING TYPICAL SECTION
STA. 137+17 TO STA. 162+53



CRYSTAL LAKE AVENUE
PROPOSED TYPICAL SECTION
STA. 137+17 TO STA. 162+53

- 7' SIDEWALK ADJACENT TO CURB FROM STA. 145+95.24 LT TO STA. 146+19.27 LT, FROM STA. 158+33.50 RT TO STA. 158+57.52 RT AND FROM 157+4.28 LT TO 158+56.31 LT RIGHT TURN LANE STA. 150+72.00 TO STA. 153+75.59

HMA MIXTURE REQUIREMENTS CHART

ITEM	AC TYPE	VOIDS	THICKNESS
DRIVEWAYS			
HMA SURFACE COURSE, MIX "C", N50	PG 64-22	4% @ 50 GYR.	2"
HMA BASE COURSE	PG 64-22	4% @ 50 GYR.	6"
ROADWAY WIDENING			
HMA SURFACE COURSE, MIX "D", N70	PG 64-22	4% @ 70 GYR.	1 1/2"
HMA BINDER COURSE, IL-19.0, N70	PG 64-22	4% @ 70 GYR.	2 1/4"
HMA BASE COURSE	PG 64-22	4% @ 70 GYR.	8"
ROADWAY RESURFACING			
HMA SURFACE COURSE, MIX "D", N70	PG 64-22	4% @ 70 GYR.	1 1/2"
HMA BINDER COURSE, IL-19.0, N70	PG 64-22	4% @ 70 GYR.	2 1/4"
LEVELING BINDER (MACHINE METHOD), IL 9.5 mm, N70	PG 64-22	4% @ 70 GYR.	3/4" MIN
PATCHING			
CLASS D PATCHES, TYPE IV, IL-19.0	PG 64-22	4% @ 70 GYR.	10"
TEMPORARY PAVEMENT			
HMA SURFACE COURSE, MIX "D", N70	PG 64-22	4% @ 70 GYR.	1 1/2"
HMA BASE COURSE	PG 64-22	4% @ 70 GYR.	8"

NOTES: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

THE CONTRACTOR SHALL HAVE THE OPTION OF USING PCC PAVEMENT 8" OR HMA PAVEMENT 9 1/2" FOR TEMPORARY PAVEMENT AS SPECIFIED IN THE SPECIAL PROVISION AND THE MIXTURE REQUIREMENT TABLE ABOVE.

LEGEND:

- ① EXISTING SIDEWALK, 4' (TYP.)
- ①A PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIES FROM 0" TO 3"
- ② EXISTING GRAVEL SHOULDER
- ③ EXISTING SURFACE COURSE, 1 1/2"
- ④ EXISTING BINDER COURSE, 1 1/2"
- ⑤ EXISTING HMA BASE COURSE, 6"
- ⑥ EXISTING AGGREGATE SUBGRADE, 4"
- ⑦ PROPOSED PCC SIDEWALK 5", 5' TO 7' WIDE
- ⑧ PROPOSED TYPE B-6.24 CURB AND GUTTER
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ⑩ PROPOSED HMA BINDER COURSE, IL-19.0, N70 2 1/4"
- ⑪ PROPOSED HMA BASE COURSE, 8"
- ⑫ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑬ PROPOSED TOPSOIL FURNISH AND PLACE, 4"; SODDING, SALT TOLERANT
- ⑭ PROPOSED STRIP REFLECTIVE CRACK CONTROL, 2' WIDE
- ⑮ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 3/4" MINIMUM

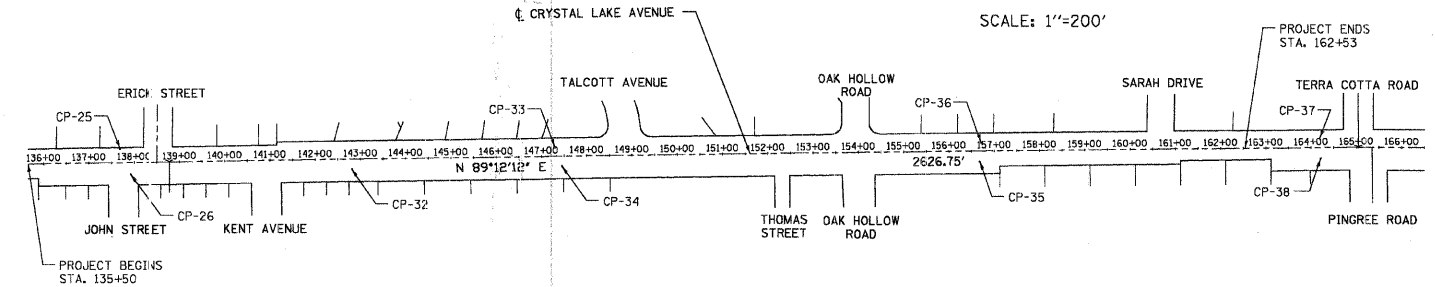
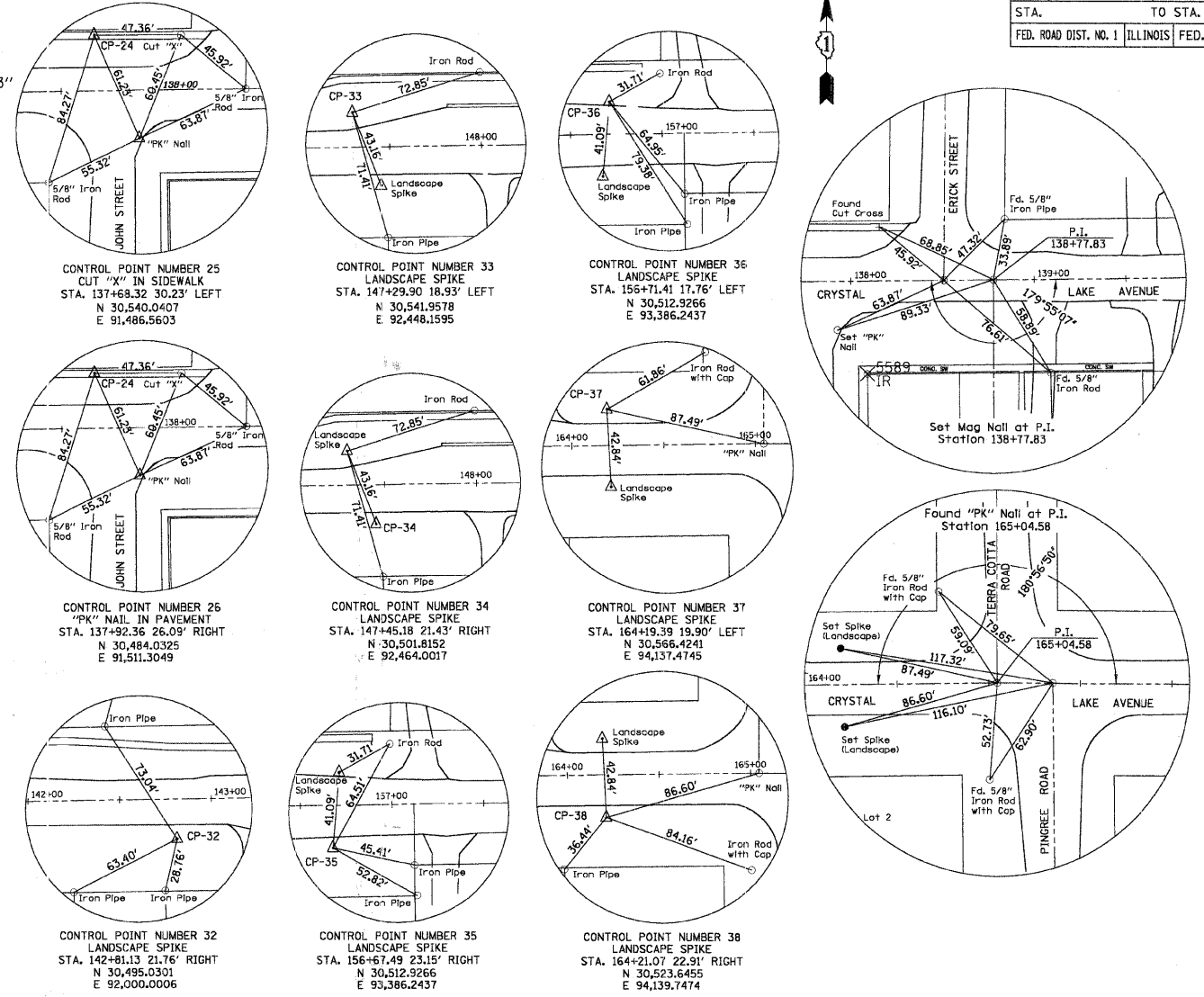
BENCHMARKS

- BM "CRYSTAL LAKE 2A" #6934
ROD IN CONCRETE W/LID @ NWY OF MAIN ST. & WOODSTOCK AVE.
9' FROM H.H. 9' E. OF ORANGE WITNESS POST.
N=2031301.017
E=988877.201
ELEV=928.364
- BM "CRYSTAL LAKE 2B" #6834
ROD IN CONCRETE W/LID +/- 50' S. OF S. ENT. TO # 100 S. MAIN
8' OFF BC +/- 50' N. OF ORANGE WITNESS POST.
+/- 12' FROM F.H.
N=2029472.530
S=988973.533
ELEV=918.778

LOCAL BENCHMARKS

- SE CORNER OF CRYSTAL LAKE & JOHN - FH BE - EDDY VALVE CO, ARROW BOLT - ELEV. 932.23
- 426 CRYSTAL LAKE AVE - FH 9E - EDDY VALVE CO, ARROW BOLT - ELEV. 929.68
- ACROSS FROM 457 CRYSTAL LAKE AVE - FH 11E - 1991 MUELLER, ARROW BOLT - ELEV. 927.04
- ACROSS FROM 483 CRYSTAL LAKE AVE - FH 12E - 1991 MUELLER, ARROW BOLT - ELEV. 925.56
- NE CORNER OAK HOLLOW & CRYSTAL LAKE - FH 14E - 1995 MUELLER, ARROW BOLT - ELEV. 916.70

ALIGNMENT AND TIES



EARTHWORK QUANTITIES

LOCATION (STA TO STA)	EARTH EX. (CU YD)		ADJ. EARTH EX. (1%)		EMBANKMENT (CU YD)		BALANCE WASTE (+) OR SHORTAGE (-)		UNSUITABLE (CU YD)	
	STAGE I	STAGE II	STAGE I	STAGE II	STAGE I	STAGE II	STAGE I	STAGE II	STAGE I	STAGE II
137+17 149+50	576.0	403.3	489.6	342.8	485.1	395.9	4.5	-53.1	351.0	198.0
149+50 162+53	1151.6	403.9	978.9	343.3	301.9	403.2	676.9	-59.9	199.5	217.8
TOTAL	1728	807	1468.5	686.1	787.0	799.1	681	-113	550.5	415.8
GRAND TOTAL	2535						568		1241	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

TYPICAL SECTIONS,
ALIGNMENT, TIES AND BENCHMARKS

SCALE: NONE
DATE 10/30/08

DRAWN BY LP
CHECKED BY JJP

SUMMARY OF QUANTITIES				2000-2A	SFTY-1B
CODE NO.	PAY ITEM	UNIT	TOTAL QTY.	STP 80% FED 20% STATE	CMAQ 80% FED 20% STATE
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	6	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24	24	
20101000	TEMPORARY FENCE	FOOT	370	370	
20200100	EARTH EXCAVATION	CU YD	2535	2535	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1241	1241	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	275	275	
20800150	TRENCH BACKFILL	CU YD	287	287	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10982	10982	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	136	136	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	136	136	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	136	136	
* 25100630	EROSION CONTROL BLANKET	SQ YD	10982	10982	
* 25200110	SODDING, SALT TOLERANT	SQ YD	10982	10982	
* 25200200	SUPPLEMENTAL WATERING	UNIT	110	110	
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	227	227	
28000300	TEMPORARY DITCH CHECKS	EACH	3	3	
28000400	PERIMETER EROSION BARRIER	FOOT	3334	3334	
28000510	INLET FILTERS	EACH	40	40	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	1105	1105	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	3381	3381	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	4.5	4.5	
40600300	AGGREGATE (PRIME COAT)	TON	22	22	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	737	737	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	462	462	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1377	1377	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	124	124	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	919	919	
42001300	PROTECTIVE COAT	SQ YD	1959	1959	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	27	27	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	25140		25140
42400800	DETECTABLE WARNINGS	SQ FT	72		72
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	10175	10175	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1105	1105	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1125	1125	
44000600	SIDEWALK REMOVAL	SQ FT	12000		12000
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	236	236	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	7614	7614	
50105220	PIPE CULVERT REMOVAL	FOOT	304	304	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	226	226	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	15	15	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	626	626	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	643	643	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	367	367	
55039700	STORM SEWERS TO BE CLEANED	FOOT	193	193	
55100500	STORM SEWER REMOVAL 12"	FOOT	95	95	
* 56400100	FIRE HYDRANTS TO BE MOVED	EACH	2	2	
60107600	PIPE UNDERDRAINS 4"	FOOT	175	175	

SUMMARY OF QUANTITIES				2006-2A	
CODE NO.	PAY ITEM	UNIT	TOTAL QTY.	STP 80% FED 20% STATE	CMAQ 80% FED 20% STATE
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	18	18	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	12	12	
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	13	13	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2	
60255500	MANHOLES TO BE ADJUSTED	EACH	11	11	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	8	8	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1	
60500050	REMOVING CATCH BASINS	EACH	3	3	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	5876	5876	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5	
67100100	MOBILIZATION	L SUM	1	1	
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	5	5	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1269	1269	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	15216	15216	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	240	240	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5560	5560	
72000100	SIGN PANEL - TYPE 1	SQ FT	36	36	
72900100	METAL POST - TYPE A	FOOT	42	42	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	469	469	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5962	5962	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	564	564	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1272	1272	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	76	76	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	107	107	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1690	1690	
* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2	2	
* 89500400	RELOCATE EXISTING PEDESTRIAN PLSH-BUTTON	EACH	1	1	
* A2007920	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	252	252	
X0322034	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	132	132	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	100	100	
* X0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	611	611	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	21	21	
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1	
X0712400	TEMPORARY PAVEMENT	SQ YD	56	56	
XX003503	FLARED END SECTION REMOVAL	EACH	3	3	
XX005656	INLET FILTER CLEANING	EACH	40	40	
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	3381	3381	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	6	6	
Z0019500	DRYWELL	EACH	1	1	
Z0019600	DUST CONTROL WATERING	UNIT	5	5	
Z0076600	TRAINEES	HOURL	500	500	
Z0077900	WOOD POST AND RAIL FENCE	FOOT	95	95	

* SPECIALTY ITEMS
 Δ Y080

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

SUMMARY OF QUANTITIES

SCALE: NONE
 DATE 10/30/08

DRAWN BY LP
 CHECKED BY JIP

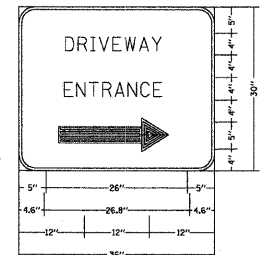
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	5
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

- ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. EXISTING STOP AND STOP AHEAD SIGNS SHALL BE RELOCATED TO CONTROL SIDE STREET OR ENTRANCE TRAFFIC FOR THE VARIOUS STAGES OF CONSTRUCTION. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT.
- A MINIMUM OF TWO LANES (11 FEET) IN EACH DIRECTION SHALL BE KEPT OPEN TO THROUGH TRAFFIC AT ALL TIMES EXCEPT AS NOTED IN THE PLANS. IF ONE LANE IN EACH DIRECTION MUST BE CLOSED AT ANY TIME DUE TO CONSTRUCTION, IT SHALL BE BETWEEN 9:00 AM AND 3:00 PM, MONDAY THROUGH FRIDAY. THESE CLOSURES MUST BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS PRIOR NOTICE TO THE CITY ENGINEER (CRYSTAL LAKE) BEFORE BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE 48 HOUR WRITTEN NOTICE TO THE ENGINEER, PROPERTY OWNERS AND CITY OF ANY DRIVEWAY CLOSURES. APPROXIMATE DIRECTIONAL SIGNAGE SHALL BE PROVIDED SO THAT PATRONS OF THESE AFFECTED BUSINESSES CAN ACCESS THE PROPERTIES BY OTHER ROUTES. THIS ACTIVITY SHALL BE COORDINATED WITH THE RESIDENT ENGINEER FOR THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF THE CONSTRUCTION. SIGNS SHALL BE TAKEN DOWN AS SOON AS THEY ARE NO LONGER APPLICABLE ON A CONTINUOUS BASIS AND RE-ERECTED AS APPROPRIATE.

SEE DETAIL FOR "TEMPORARY INFORMATION SIGNING" IN PLANS. THESE SIGNS SHALL BE PAID AS TEMPORARY INFORMATION SIGNING.

DRIVEWAY ENTRANCE SIGNING



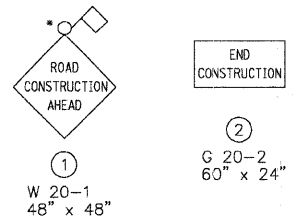
3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12" x 5.0"

NOTES: HALF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW

TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE OF THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT HAND SIDE OF THE DRIVEWAY.

SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING"

SIGN LEGEND



* FLAGS OPTIONAL

SEQUENCE OF OPERATION

STAGE 1
ONE LANE OF TRAFFIC IN EACH DIRECTION WILL BE PROVIDED ALONG CRYSTAL LAKE AVENUE.

ROADWAY BASE COURSE WIDENING WILL BE CONSTRUCTED ON THE SOUTH SIDE OF CRYSTAL LAKE AVENUE FROM STA. 137+17 TO STA. 162+53. CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS WILL ALSO BE CONSTRUCTED IN CONJUNCTION WITH THE BASE COURSE WIDENING.

EXISTING PAVEMENT WILL HAVE VARIABLE DEPTH MILLED AS NEEDED TO PROVIDE TRANSITION BETWEEN PROPOSED WIDENING AND EXISTING PAVEMENT.

STORM SEWER WILL BE CONSTRUCTED ALONG THE SOUTH SIDE OF CRYSTAL LAKE AVENUE FROM STA. 137+45 TO STA. 151+87, STA. 154+32 TO STA. 155+05 AND FROM STA. 160+17 TO STA. 160+32.

STAGE 2
ONE LANE OF TRAFFIC IN EACH DIRECTION WILL BE PROVIDED ALONG CRYSTAL LAKE AVENUE.

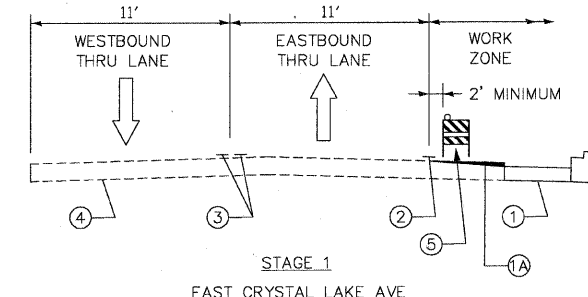
ROADWAY BASE COURSE WIDENING WILL BE CONSTRUCTED ON THE NORTH SIDE OF CRYSTAL LAKE AVENUE FROM STA. 139+30 TO STA. 162+53. CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS WILL ALSO BE CONSTRUCTED IN CONJUNCTION WITH THE BASE COURSE WIDENING.

EXISTING PAVEMENT WILL HAVE VARIABLE DEPTH MILLED AS NEEDED TO PROVIDE TRANSITION BETWEEN PROPOSED WIDENING AND EXISTING PAVEMENT.

STORM SEWER LATERALS AND ASSOCIATED PAVEMENT PATCHING WILL BE CONSTRUCTED SIMULTANEOUSLY WITH THE BASE COURSE WIDENING.

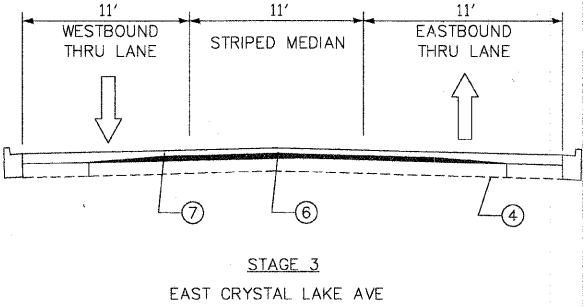
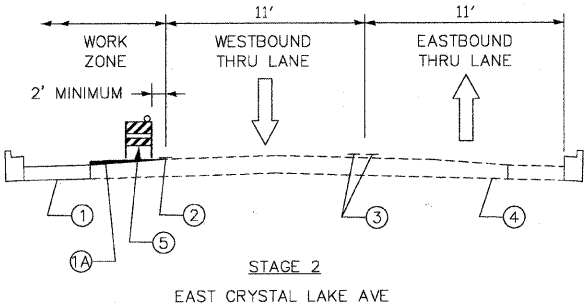
STAGE 3
THE EXISTING PAVEMENT WILL HAVE VARIABLE DEPTH MILLED OFF THE SURFACE TO MATCH THE SURFACE OF THE BASE COURSE WIDENING CONSTRUCTED IN STAGES 1 AND 2. THE PAVEMENT MILLING WILL BE PERFORMED AT THE START OF STAGE 3 TO MINIMIZE THE TIME THAT THE MILLED SURFACE IS EXPOSED TO TRAFFIC.
ONCE THE SURFACE HAS BEEN MILLED, THE LEVELING BINDER, BINDER COURSE AND SURFACE COURSE WILL BE CONSTRUCTED.
THE PROPOSED THERMOPLASTIC PAVEMENT MARKING, AND RAISED REFLECTIVE PAVEMENT MARKERS WILL BE INSTALLED AFTER PAVING HAS BEEN COMPLETED.

TYPICAL SECTIONS



LEGEND

- ① PROPOSED HMA PAVEMENT (WIDENING)
- ①A MILLING, 0 TO 3" AS NEEDED
- ② TEMPORARY PAVEMENT MARKING LINE, 4", WHITE
- ③ TEMPORARY PAVEMENT MARKING LINE, 4", YELLOW (2 @ 11" CTC)
- ④ EXISTING PAVEMENT
- ⑤ TYPE II BARRICADE (AT 50' CTC)
- ⑥ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑦ PROPOSED LEVELING BINDER, BINDER COURSE AND SURFACE COURSE TO BE CONSTRUCTED USING DAY TIME LANE CLOSURE OPERATIONS



REVISIONS	
NAME	DATE

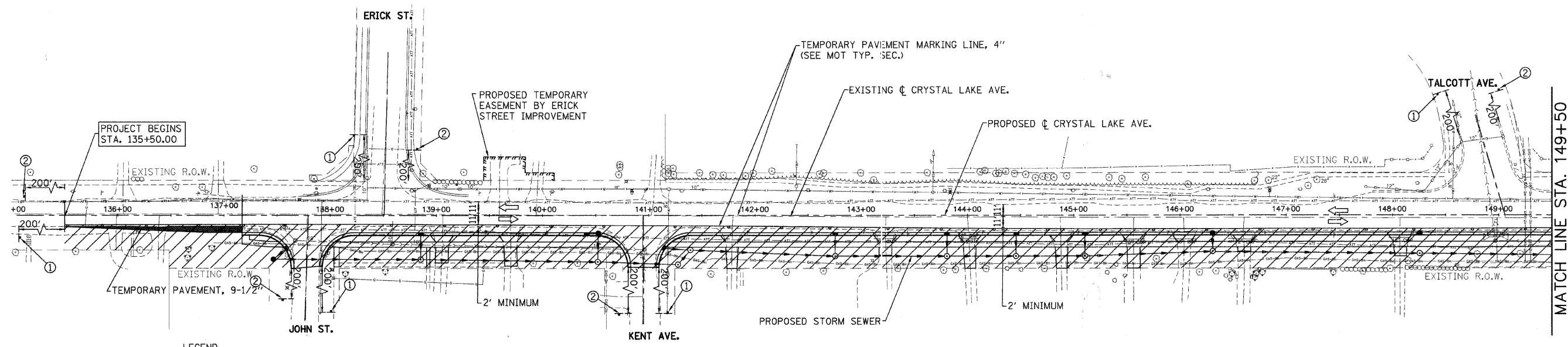
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

TRAFFIC CONTROL
GENERAL NOTES, SIGNING LEGEND,
SEQUENCE OF OPERATION

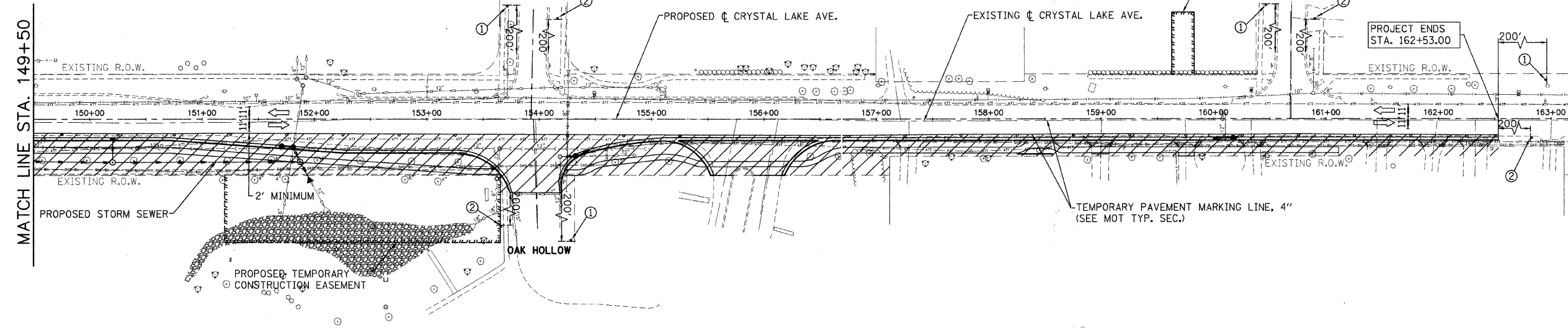
SCALE: NONE
DATE 10/30/08

DRAWN BY LP
CHECKED BY JIP

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	6
STA. 135+50		TO STA. 162+53		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



- LEGEND**
- CONSTRUCTION ZONE
 - TYPE II, 50' C-C BARRICADE
 - SIGN (SEE LEGEND FOR DETAILS)



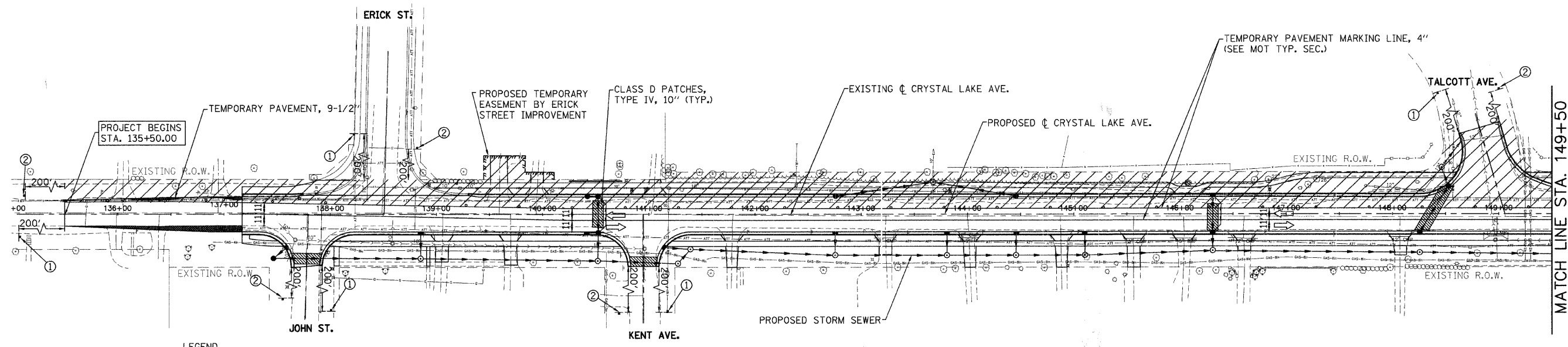
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.J. ROUTE 116 (EAST CRYSTAL LAKE AVE)

TRAFFIC CONTROL
STAGE 1

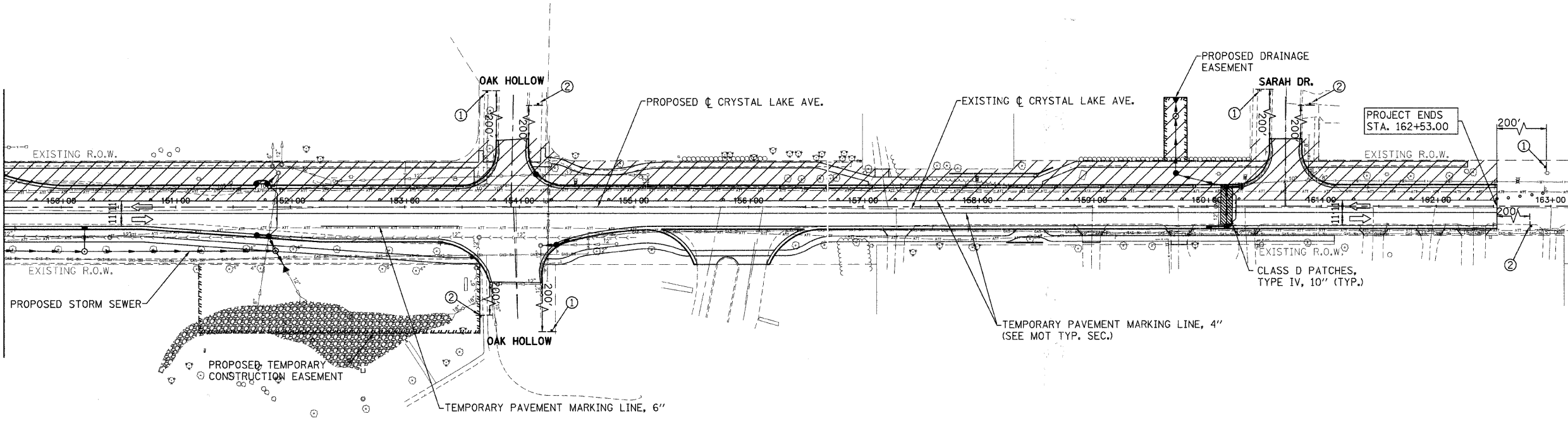
SCALE: 1" = 50'
DATE 10/30/08
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CHECKED BY JIP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	7
STA. 135+50		TO STA. 162+53		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- LEGEND**
- CONSTRUCTION ZONE
 - TYPE II, 50' C-C BARRICADE
 - SIGN (SEE LEGEND FOR DETAILS)

MATCH LINE STA. 149+50



REVISIONS	
NAME	DATE

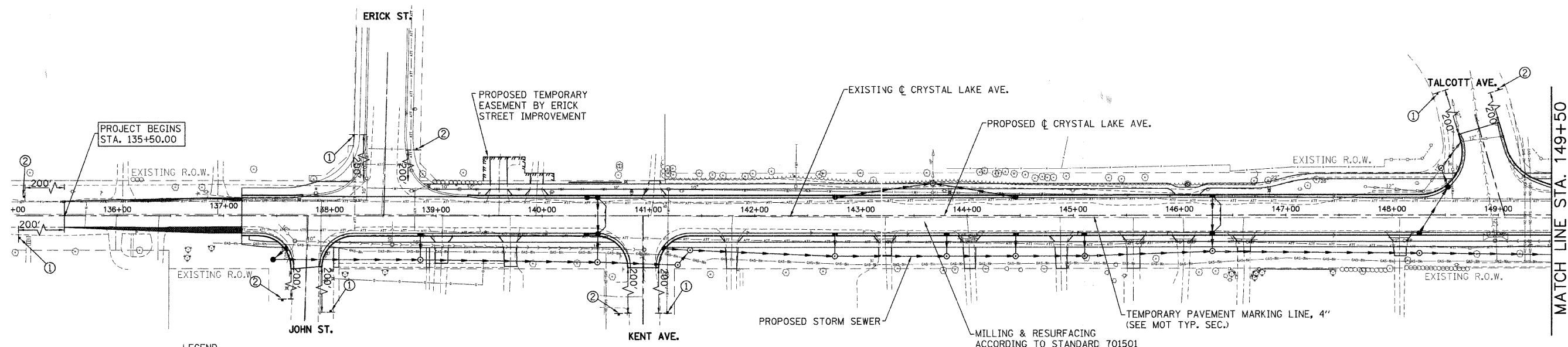
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

TRAFFIC CONTROL
STAGE 2

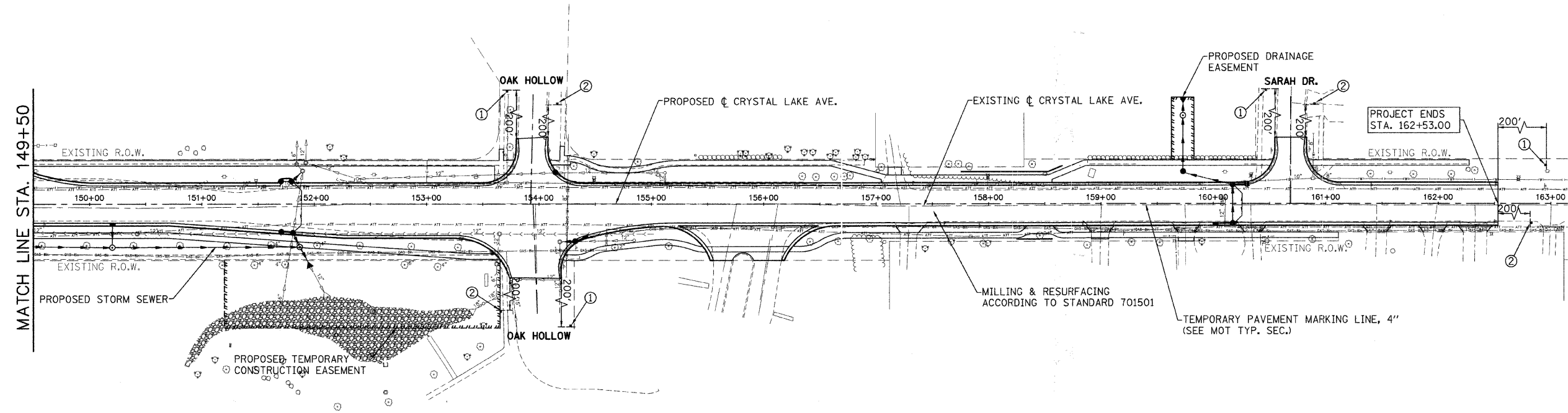
SCALE: 1" = 50'
DATE 10/30/08

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	8
STA. 135+50		TO STA. 162+53		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- LEGEND**
- CONSTRUCTION ZONE
 - TYPE II, 50' C-C BARRICADE
 - SIGN (SEE LEGEND FOR DETAILS)



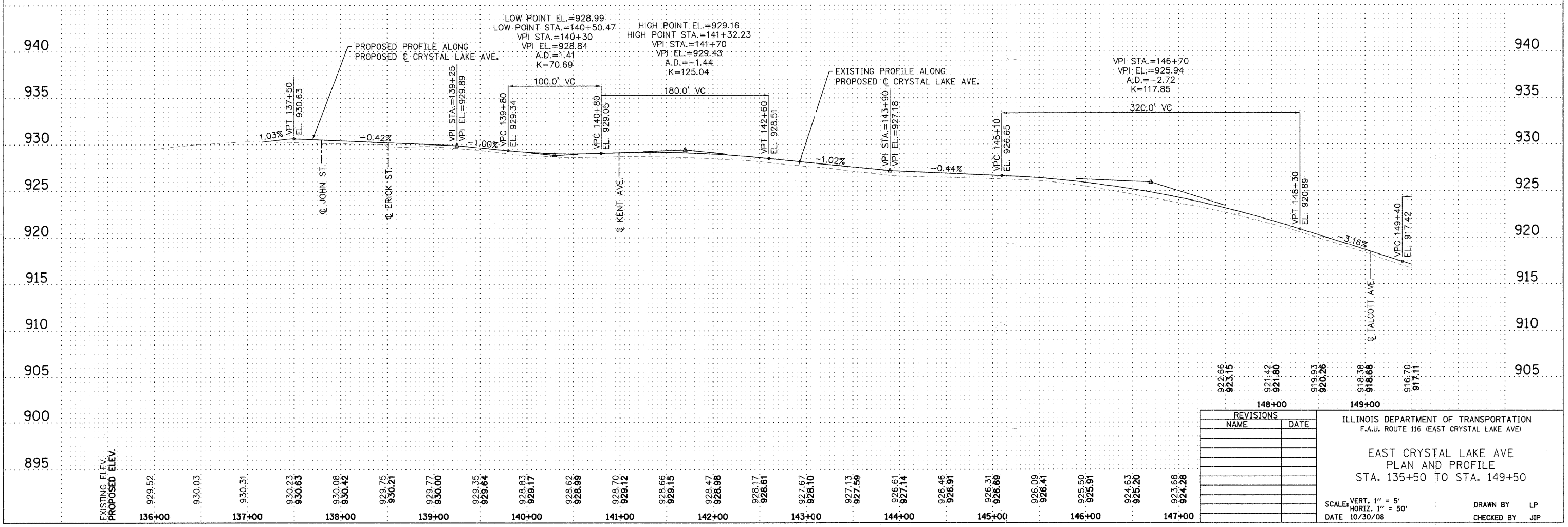
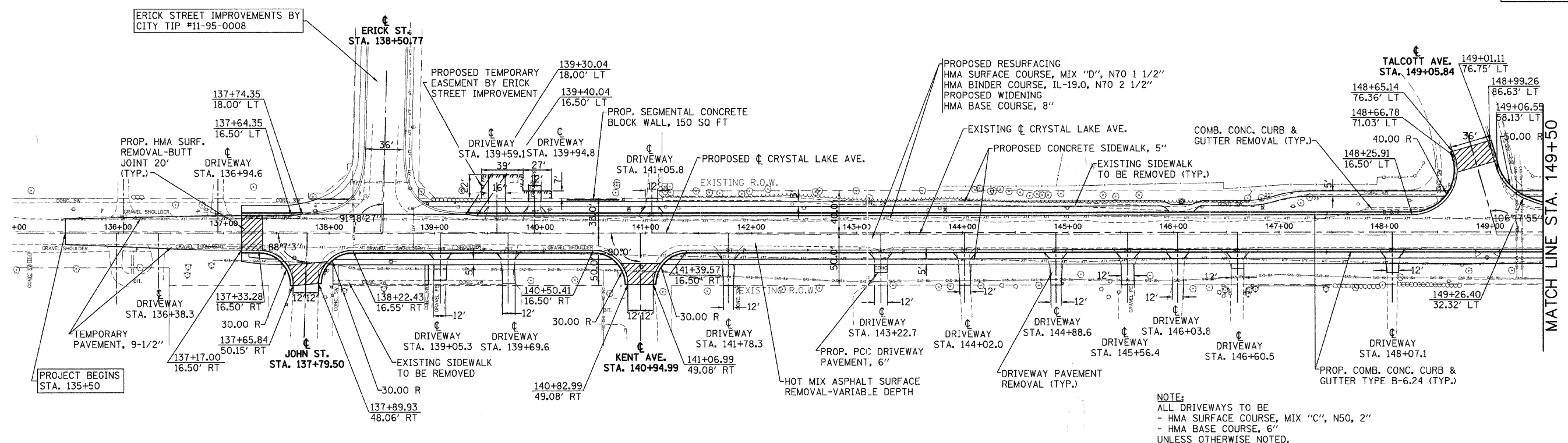
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

TRAFFIC CONTROL
STAGE 3

SCALE: 1" = 50'
DATE 10/30/08
DRAWN BY LP
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	9
STA. 135+50		TO STA. 149+50		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



REVISIONS	
NAME	DATE

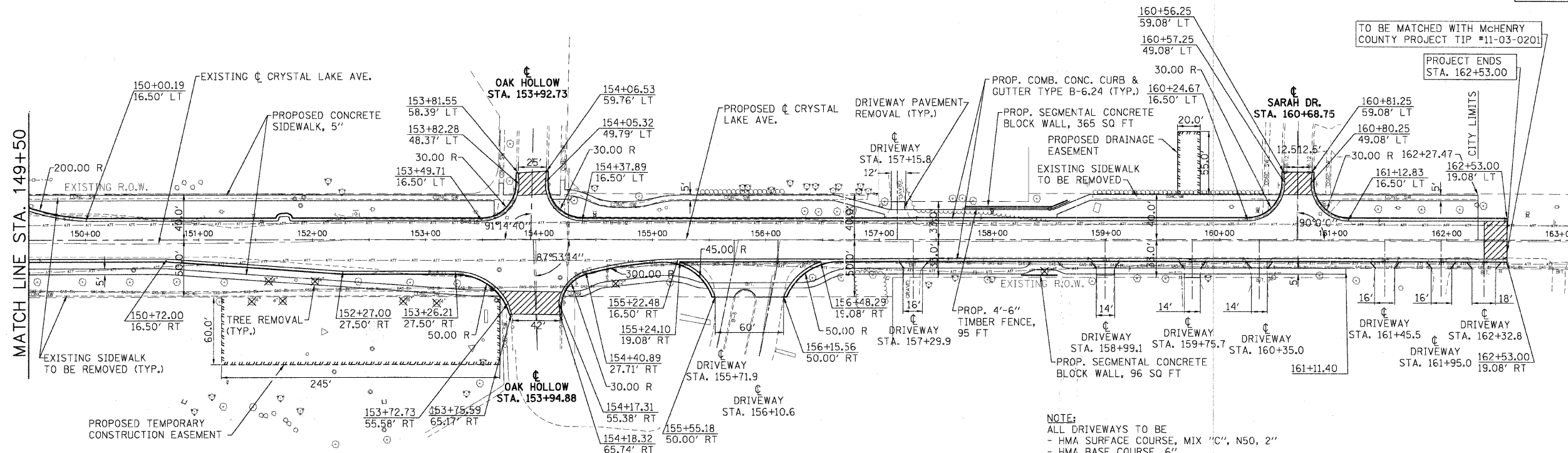
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)
EAST CRYSTAL LAKE AVE
PLAN AND PROFILE
 STA. 135+50 TO STA. 149+50

SCALE: VERT. 1" = 5'
 HORIZ. 1" = 50'

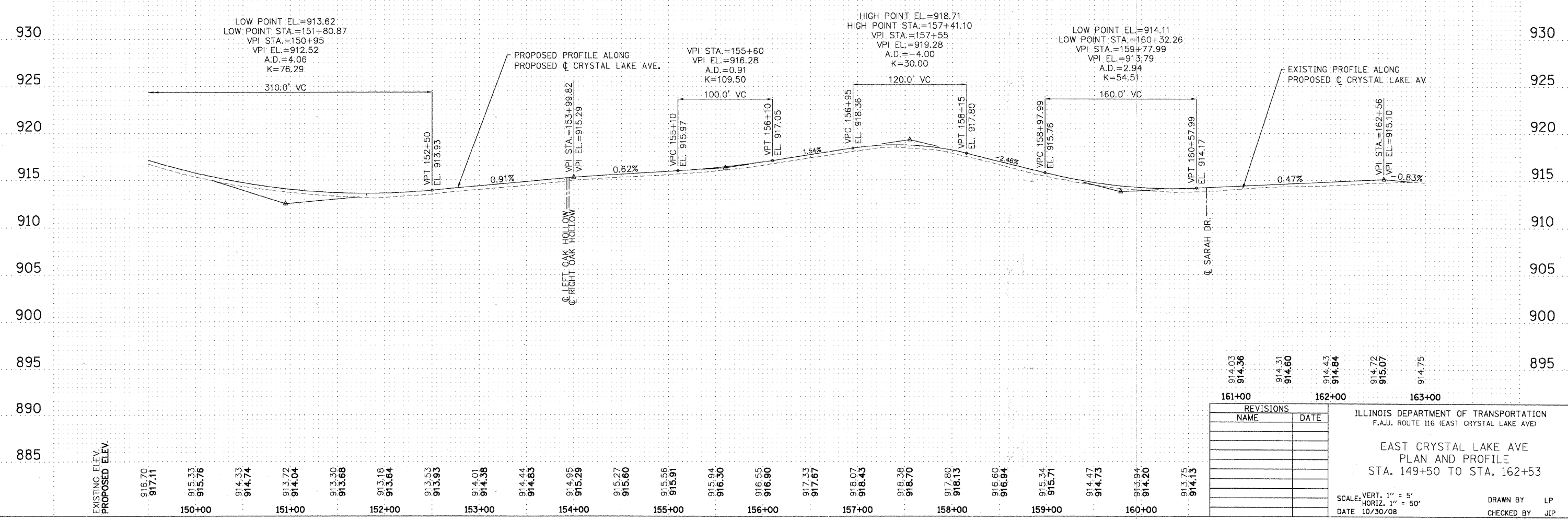
DATE 10/30/08

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	10
STA. 149+50		TO STA. 162+53		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



NOTE:
 - HMA SURFACE COURSE, MIX "C", N50, 2"
 - HMA BASE COURSE, 6"
 UNLESS OTHERWISE NOTED.



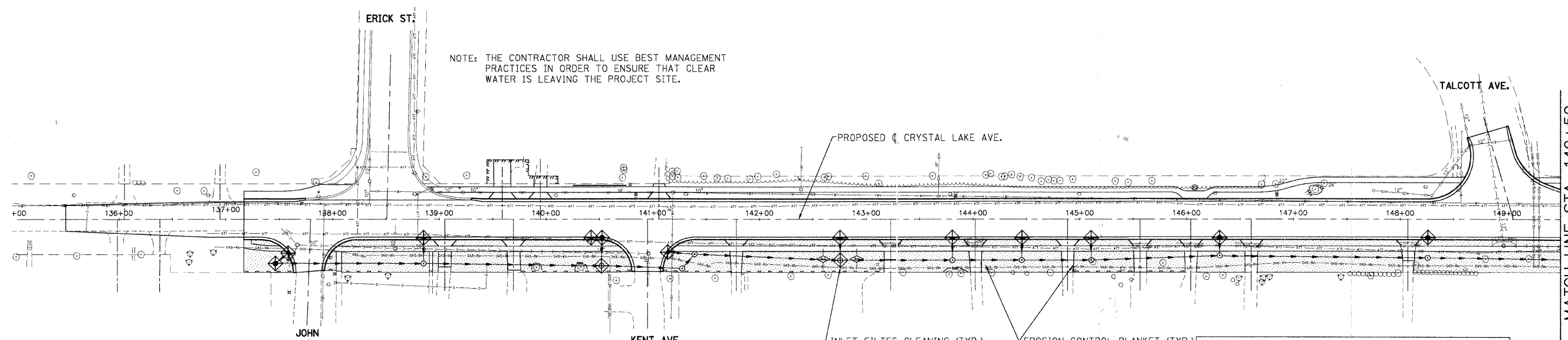
EXISTING ELEV.
PROPOSED ELEV.

STATION	EXISTING ELEV.	PROPOSED ELEV.
150+00	916.70	917.11
	915.33	915.76
	914.33	914.74
151+00	913.72	914.04
	913.30	913.68
	913.18	913.64
	913.53	913.93
152+00	914.01	914.38
	914.44	914.83
	914.95	915.29
153+00	915.27	915.60
	915.56	915.91
	915.94	916.30
154+00	916.55	916.90
	917.33	917.67
	918.07	918.43
155+00	918.38	918.70
	917.80	918.13
	916.60	916.94
156+00	915.34	915.71
	914.47	914.73
157+00	913.94	914.20
	913.75	914.13

REVISIONS	
NAME	DATE

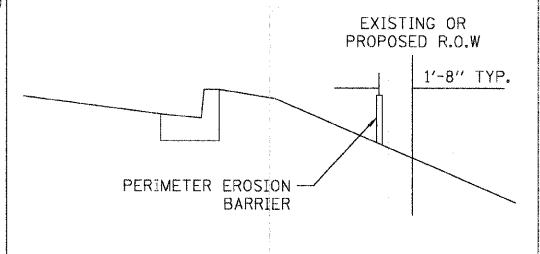
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)
**EAST CRYSTAL LAKE AVE
 PLAN AND PROFILE
 STA. 149+50 TO STA. 162+53**
 SCALE: VERT. 1" = 5'
 HORIZ. 1" = 50'
 DATE 10/30/08
 DRAWN BY LP
 CHECKED BY JJP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	11
STA. 135+50		TO STA. 162+53		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



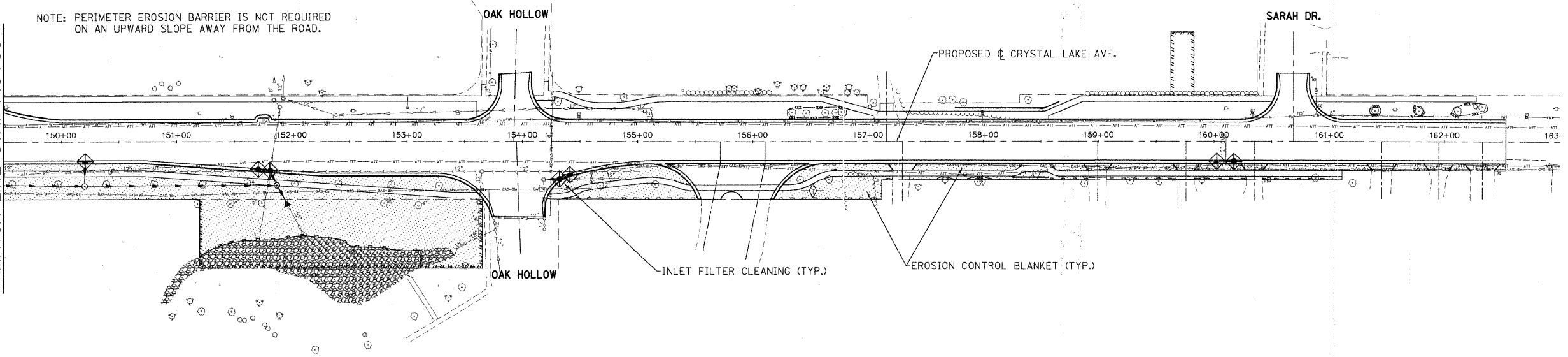
LEGEND

	TEMPORARY EROSION CONTROL SEEDING		TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER		INLET FILTERS
	TEMPORARY FENCE		



NOTE: PERIMETER EROSION BARRIER IS NOT REQUIRED ON AN UPWARD SLOPE AWAY FROM THE ROAD.

MATCH LINE STA. 149+50



REVISIONS	
NAME	DATE

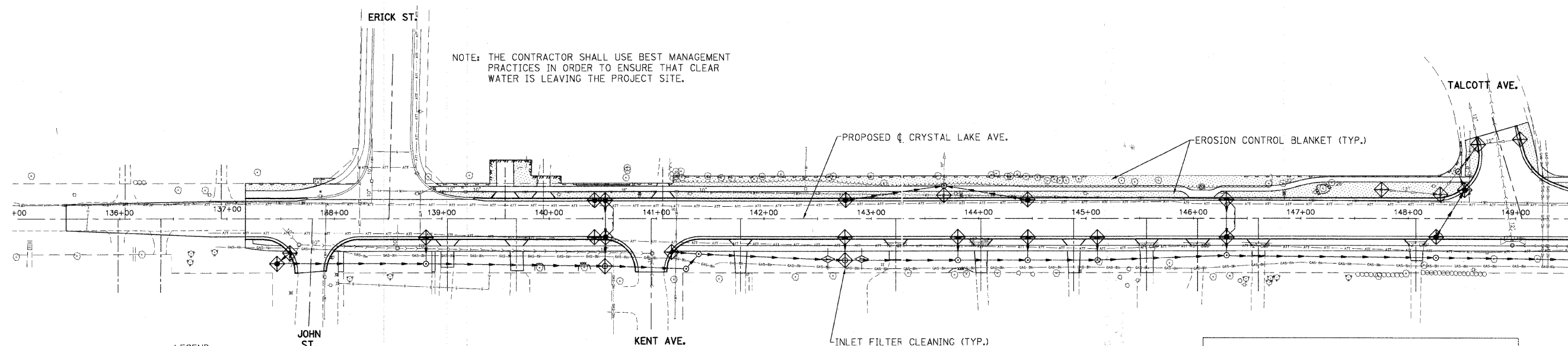
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

**EROSION CONTROL
STAGE 1**

SCALE: 1" = 50'
DATE 10/30/08

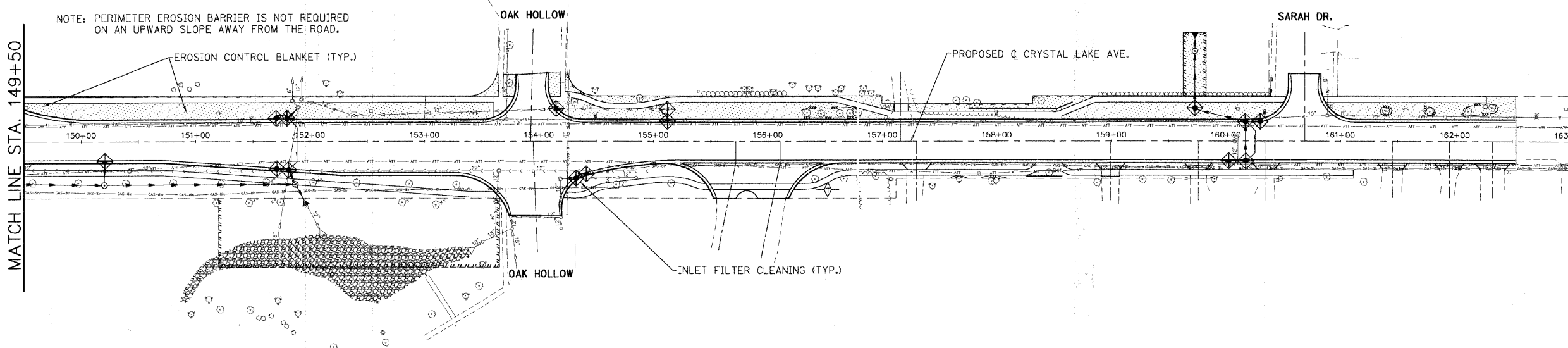
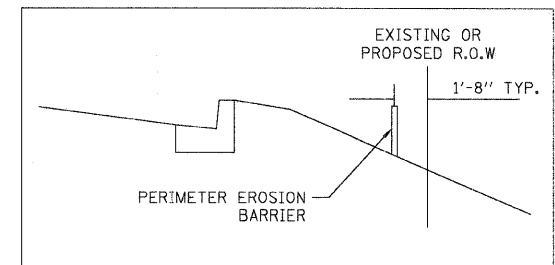
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CHECKED BY JIP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	12
STA. 136+50		TO STA. 162+53		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LEGEND

	TEMPORARY EROSION CONTROL SEEDING		TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER		INLET FILTERS
	TEMPORARY FENCE		



NOTE: PERIMETER EROSION BARRIER IS NOT REQUIRED ON AN UPWARD SLOPE AWAY FROM THE ROAD.

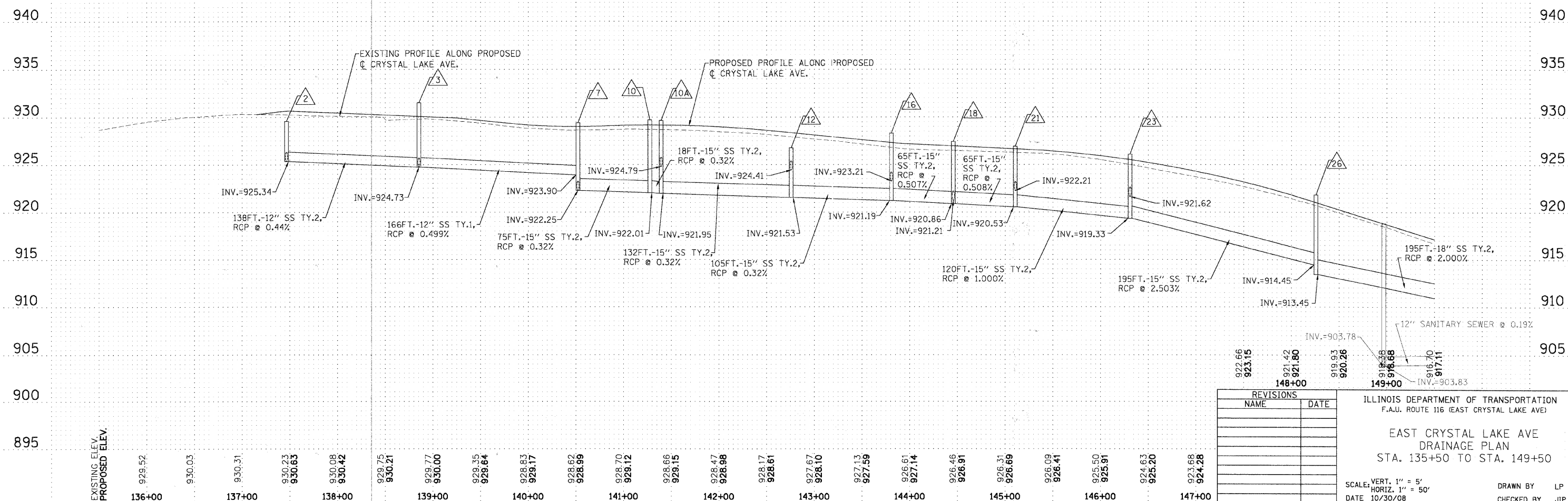
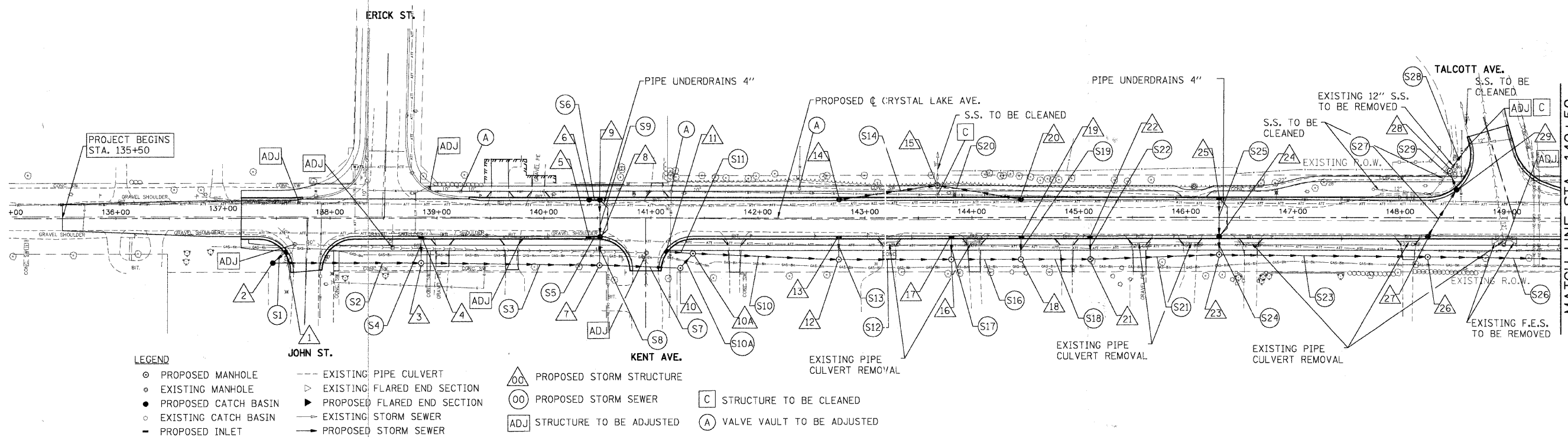
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

EROSION CONTROL
STAGE 2

SCALE: 1" = 50'
DATE 10/30/08
DRAWN BY LP
CHECKED BY JJP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	13
STA. 135+50		TO STA. 149+50		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

**EAST CRYSTAL LAKE AVE
 DRAINAGE PLAN
 STA. 135+50 TO STA. 149+50**

SCALE: VERT. 1" = 5'
 HORIZ. 1" = 50'

DATE 10/30/08

DRAWN BY LP
 CHECKED BY JJP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	15
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

STORM SEWER STRUCTURE TABLE:

STR. NO.	STATION	OFFSET	STRUCTURE TYPE/SIZE				F&G	INVERTS				RIM ELEV.
			MH	CB	IN	OTHER		N	S	E	W	
1	137+58.80	31.40 RT			A		24"					929.85
2	137+46.50	41.40 RT			A		24"	925.34		925.34		929.60
3	138+85.30	41.60 RT	A				TY 1 CL	924.73		924.73	924.73	931.50
4	138+85.30	16.50 RT			A		24"		924.83			929.48
5	140+42.30	16.50 RT			A		24"			924.03		928.38
6	140+42.30	16.50 LT			A		24"			924.19		928.38
7	140+52.10	43.60 RT	A				TY 1 OL	922.25		922.25	923.90	929.40
8	140+52.10	16.50 RT			A		24"	923.99	923.67		923.99	928.37
9	140+52.10	16.50 LT			A		24"		924.14		924.14	928.37
10	141+27.50	46.50 RT	A				TY 1 CL	922.01			922.01	929.70
10A	141+36.00	32.50 RT	A				TY 1 CL		921.95	921.95	924.79	929.50
11	141+12.80	30.60 RT			A		24"			924.90		928.03
12	142+75.60	38.50 RT	A				TY 1 OL	924.41		921.53	921.53	926.75
13	142+75.60	16.50 RT			A		24"		924.50			927.66
14	142+75.60	16.50 LT			A		24"			922.98		927.07
15	143+67.60	30.50 LT	A				TY 1 CL	921.81	921.81	921.81	922.57	924.75
16	143+80.70	38.60 RT	A				TY 1 CL	923.21		921.19	921.19	928.30
17	143+80.70	16.50 RT			A		24"		923.30			926.54
18	144+45.60	38.50 RT	A				TY 1 CL	921.21		920.86	920.86	927.40
19	144+45.60	16.50 RT			A		24"		921.30			926.21
20	144+45.60	16.50 LT			A		24"			922.15		925.71
21	145+10.60	38.50 RT	A				TY 1 CL	922.21		920.53	920.53	926.90
22	145+10.60	16.50 RT			A		24"		922.30			925.95
23	146+30.70	34.00 RT	A				TY 1 CL	921.62		919.33	919.33	926.10
24	146+30.70	16.50 RT			A		24"	921.69	921.69			925.47
25	146+30.70	16.50 LT			A		24"		921.84			925.47
26	148+25.50	36.15 RT	A				TY 1 CL			913.45	914.45	921.80
27	148+25.50	16.50 RT			A		24"	914.58				921.05
28	148+46.30	44.10 LT	A				TY 1 CL		914.27	914.27	915.30	919.40
29	148+52.60	26.30 LT			A		24"	914.35	914.35			919.26
30	150+20.30	38.40 RT	A				TY 1 CL	910.71		909.05	909.55	915.90
31	150+20.30	16.50 RT			A		24"		910.80			914.68
32	151+70.80	23.50 RT			A		24"			908.83		912.99
33	151+70.44	20.50 LT			A		24"			903.40		912.99
34	151+81.20	24.30 RT			A		24"		908.78		908.78	912.98
35	151+79.44	20.50 LT			A		24"			903.35	903.35	912.98
36	151+87.10	37.90 RT	A				TY 1 CL	908.71	908.15		908.60	913.40
36A	151+96.70	54.70 RT			FES		24"	908.00				908.00
37	154+13.20	28.10 LT			A		24"			909.16	909.21	914.01
38	154+32.30	31.50 RT			A		24"			910.63	910.63	913.50
39	154+41.20	28.90 RT			A		24"				910.67	913.60
40	159+12.40	16.50 RT			A		24"	909.10				914.89
41	159+72.60	28.90 LT			A		TY 1 OL	903.95		908.56		915.15
42	159+72.60	78.50 LT			DRY WELL		24"	902.10	903.50			908.00
42A	159+72.60	92.50 LT			FES		24"	902.00				903.00
43	160+17.10	16.50 RT			A		24"	910.63		910.63		913.80
44	160+17.10	16.50 LT			A		24"		910.33	909.30	909.00	913.80
45	160+02.80	16.50 RT			A		24"				910.77	913.78
46	160+32.10	17.40 LT			A		24"				909.44	913.78

STORM SEWER PIPE TABLE:

PIPE NO.	FROM STR.	TO STR.	DESCRIPTION	DIA. (IN)	L (FT)	SLOPE (%)	TBF Cu Yd
S1	1	2	CLASS A, TYPE II	12	16	0.440	0.8
S2	2	3	WM REQUIREMENTS	12	138	0.440	10.0
S3	3	7	CLASS A, TYPE II	12	166	0.499	33.0
S4	4	3	CLASS A, TYPE II	12	22	0.451	2.8
S5	5	8	CLASS A, TYPE II	12	10	0.440	1.7
S6	6	9	CLASS A, TYPE II	12	10	0.500	1.6
S7	7	10	CLASS A, TYPE II	15	75	0.320	21.5
S8	8	7	CLASS A, TYPE II	12	26	4.120	3.0
S9	9	8	CLASS A, TYPE II	12	36	0.440	6.3
S10	10	12	WM REQUIREMENTS	15	132	0.320	11.5
S10A	10	10A	CLASS A, TYPE II	15	18	0.320	-
S11	11	10	CLASS A, TYPE II	12	26	0.440	0.5
S12	12	16	CLASS A, TYPE II	15	105	0.320	6.4
S13	13	12	CLASS A, TYPE I	12	20	0.443	4.1
S14	14	15	CLASS A, TYPE I	12	94	0.440	23.2
S16	16	18	CLASS A, TYPE II	15	65	0.507	4.8
S17	17	16	CLASS A, TYPE II	12	20	0.443	3.7
S18	18	21	CLASS A, TYPE II	15	65	0.508	4.4
S19	19	18	CLASS A, TYPE II	12	20	0.442	3.7
S20	20	15	CLASS A, TYPE I	12	78	0.440	10.3
S21	21	23	CLASS A, TYPE II	15	120	1.000	7.9
S22	22	21	CLASS A, TYPE II	12	20	0.441	3.9
S23	23	26	CLASS A, TYPE II	15	195	2.503	21.4
S24	24	23	CLASS A, TYPE II	12	15	0.442	4.7
S25	25	24	CLASS A, TYPE II	12	36	0.442	10.8
S26	26	30	CLASS A, TYPE II	18	195	2.000	-
S27	27	29	WM REQUIREMENTS	12	52	0.442	16.6
S28	28	EXISTING	CLASS A, TYPE II	12	30	0.466	9.6
S29	29	28	WM REQUIREMENTS	12	18	0.444	5.0
S30	30	36	CLASS A, TYPE II	18	172	0.260	3.7
S31	31	30	CLASS A, TYPE II	12	20	0.443	3.2
S32	32	34	CLASS A, TYPE II	12	10	0.449	3.2
S33	33	35	CLASS A, TYPE II	12	12	0.440	13.5
S34	34	36	CLASS A, TYPE II	12	17	0.440	2.2
S35	35	EXISTING	CLASS A, TYPE II	12	11	0.440	11.3
S36	36	36A	CLASS A, TYPE I	18	15	1.000	-
S38	38	EXISTING	CLASS A, TYPE II	12	13	0.440	1.7
S39	39	38	CLASS A, TYPE I	12	10	0.440	1.7
S41	41	42	CLASS A, TYPE II	12	45	1.000	2.0
S42	42	42A	CLASS A, TYPE I	12	10	1.000	4.8
S43	43	44	CLASS A, TYPE II	12	30	1.000	-
S44	44	41	WM REQUIREMENTS	12	44	1.000	2.6
S45	45	43	CLASS A, TYPE I	12	14	1.000	2.0
S46	44	46	CLASS A, TYPE II	12	15	1.000	2.0

REVISIONS	
NAME	DATE

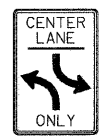
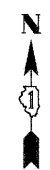
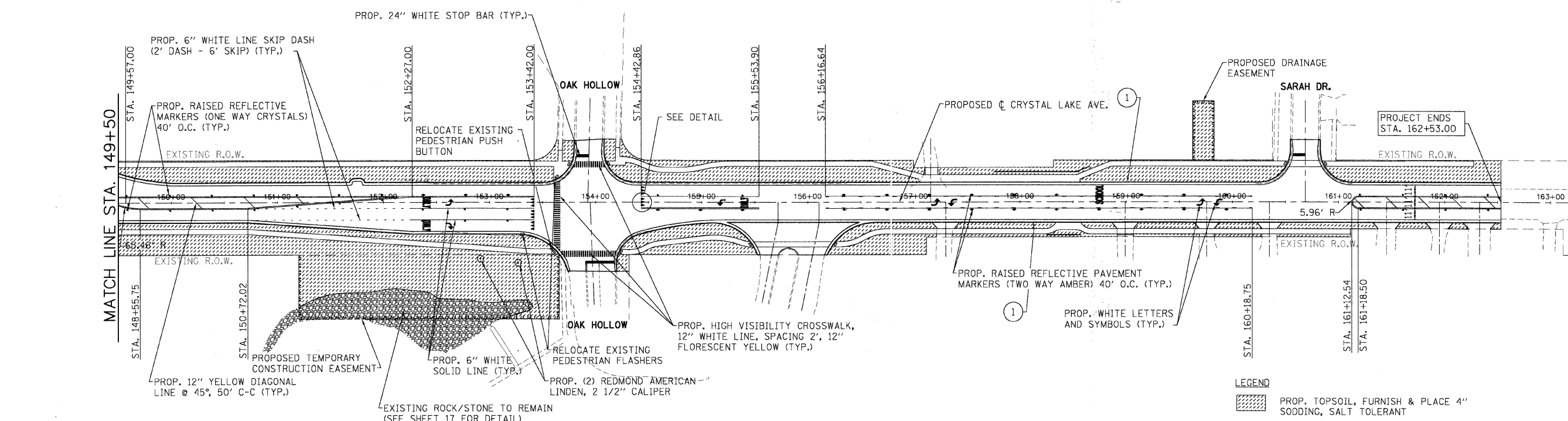
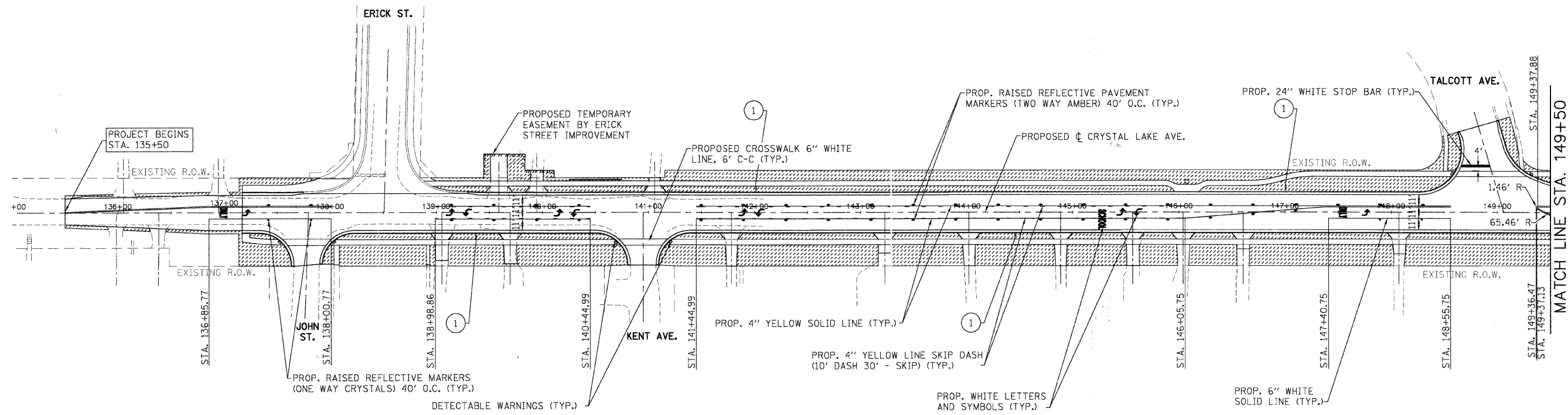
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

DRAINAGE PLAN

SCALE: NONE
DATE 10/30/08

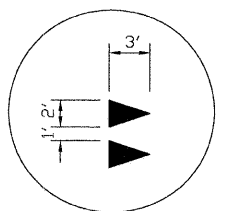
DRAWN BY LP
CHECKED BY JIP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-C2-WR	McHENRY	38	16
STA. 135+50		TO STA. 162+53		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	




① 6 PROP. REQ'D.
0 EXISTING
R 3-9b
24 INCH x 36 INCH

NOTE: THE EXACT LOCATION OF THE SIGN SHALL BE FIELD DETERMINED BY THE ENGINEER.



YIELD LINE PAVEMENT MARKING DETAIL

LEGEND
 PROP. TOPSOIL, FURNISH & PLACE 4" SODDING, SALT TOLERANT

REVISIONS	
NAME	DATE

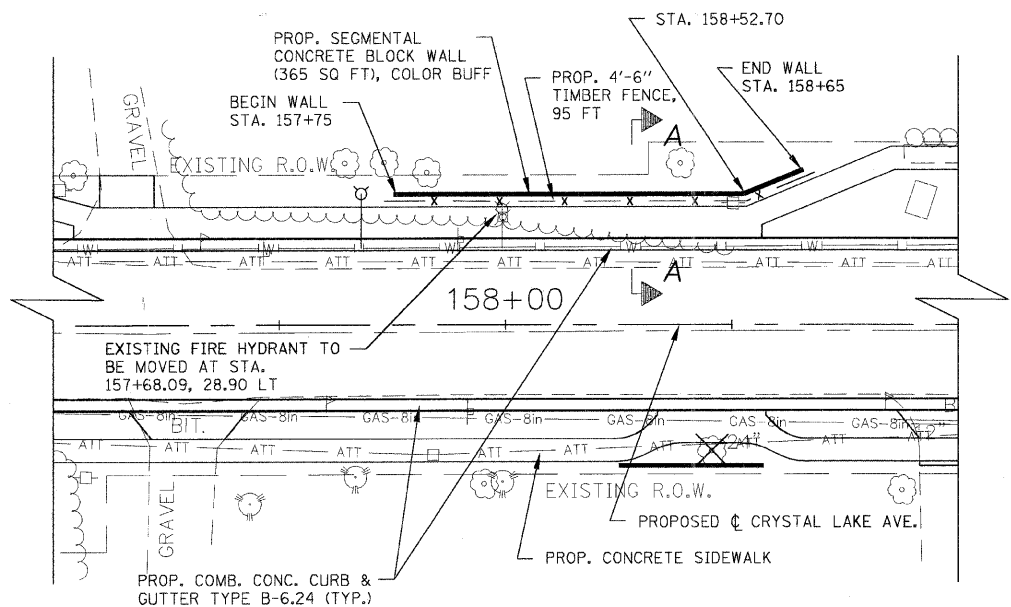
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

PAVEMENT MARKING,
SIGNING, AND LANDSCAPING

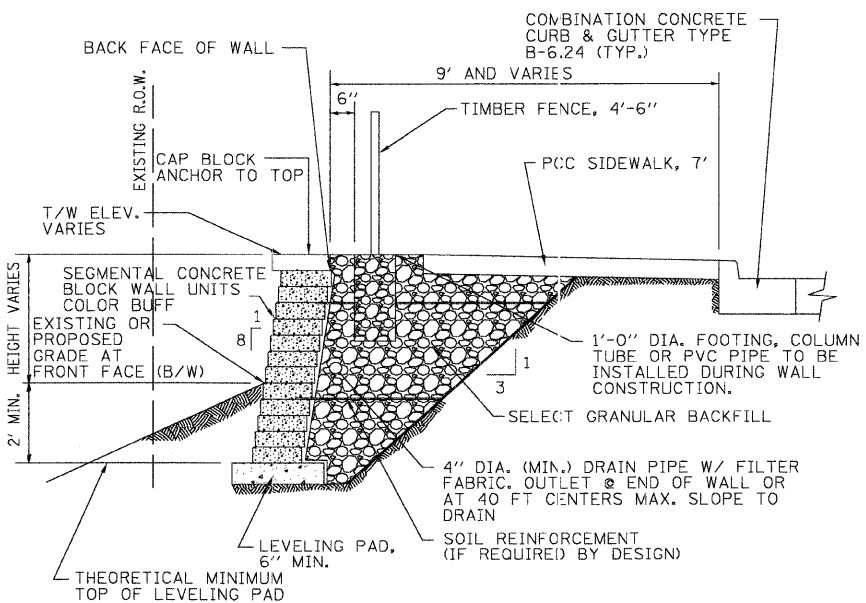
SCALE: 1" = 50'
DATE 10/30/08

DRAWN BY LP
CHECKED BY JIP

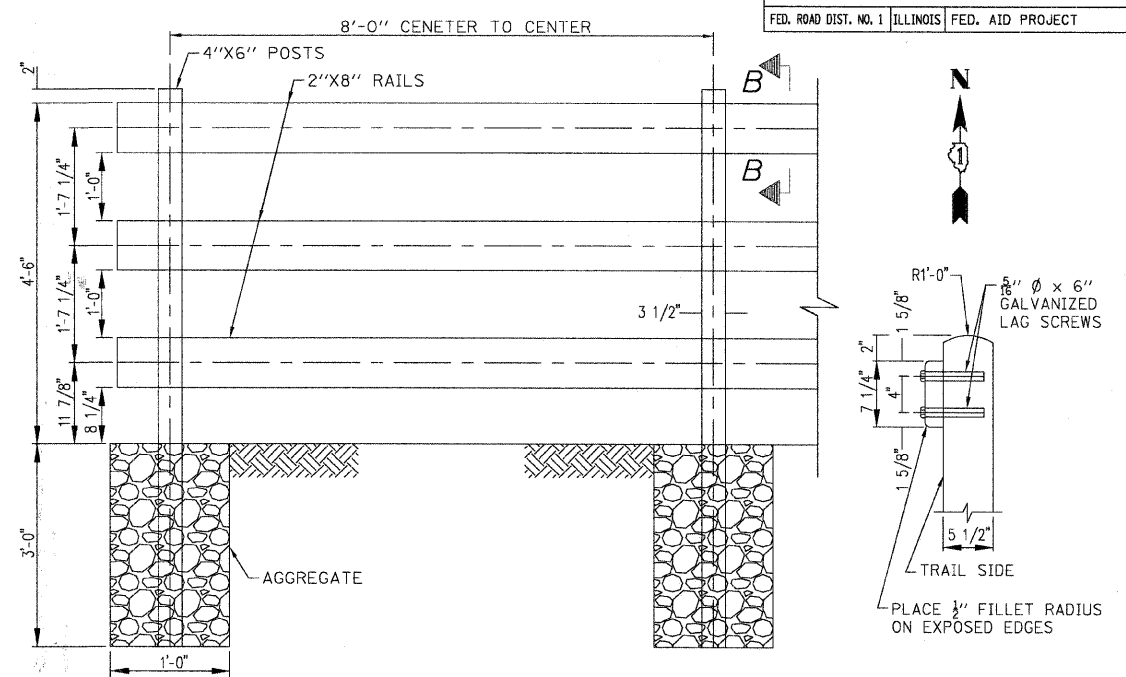
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-C2-WR	McHENRY	38	17
STA. 157+75		TO STA. 158+65		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN

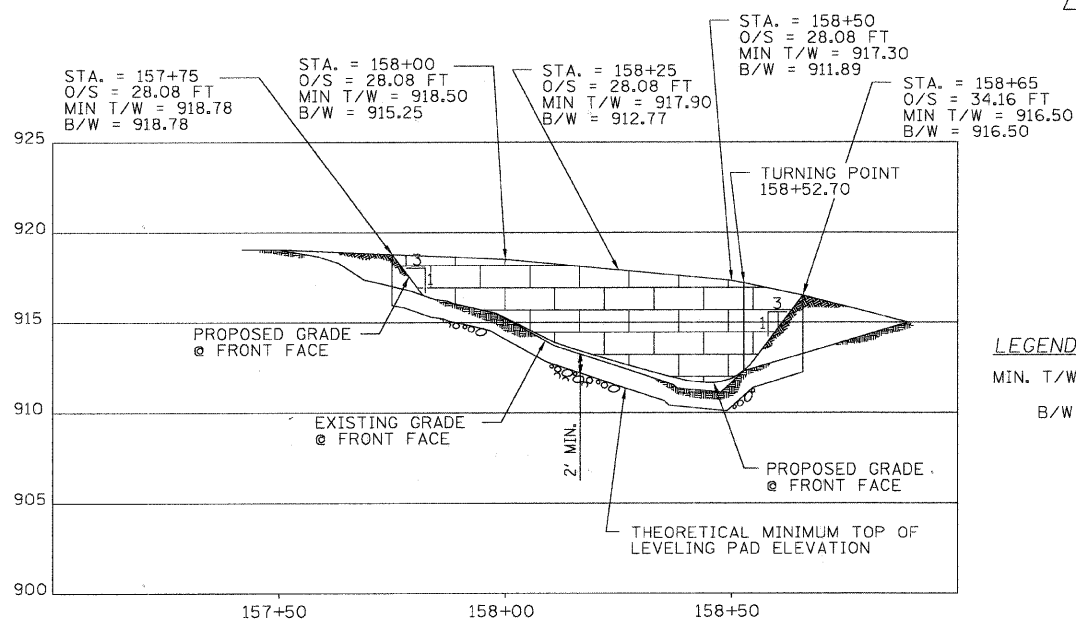


SECTION A-A



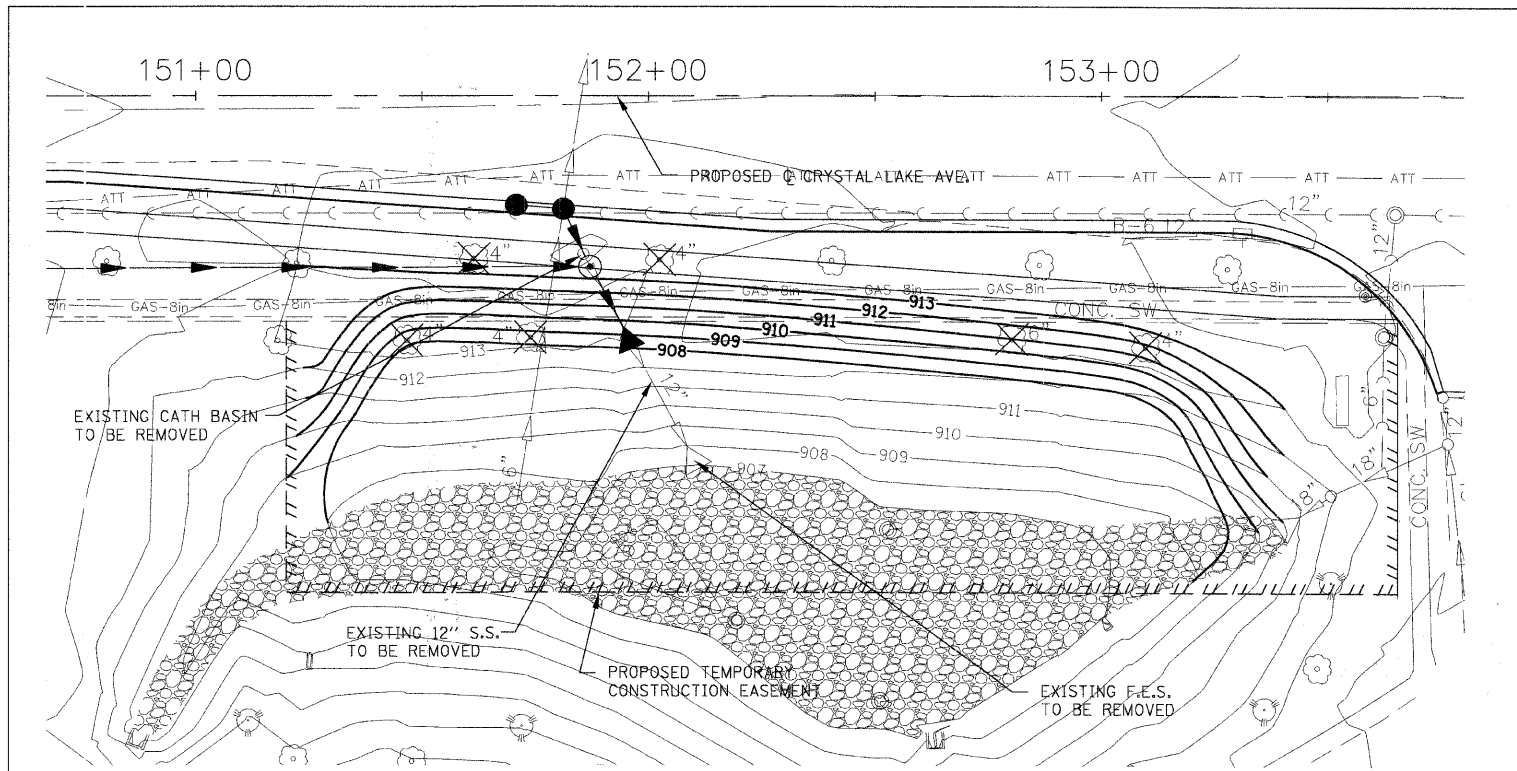
TIMBER FENCE DETAIL

SECTION B-B



ELEVATION
(BACK FACE OF WALL SHOWN)

LEGEND:
 MIN. T/W = MINIMUM TOP OF BLOCK ELEVATION
 B/W = ELEVATION OF PROPOSED GRADE AT THE FRONT FACE



POND REGRADING

GENERAL NOTES

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST REVISION, SHALL GOVERN CONSTRUCTION FOR PROPOSED IMPROVEMENTS.

RETAINING WALL SHALL BE ACCORDING TO THE SPECIAL PROVISION "SEGMENTAL CONCRETE BLOCK WALL".

COST OF EXCAVATION, LEVELING PAD, SELECT GRANULAR BACKFILL, AND DRAIN PIPE WITH FILTER FABRIC IS INCLUDED IN "SEGMENTAL CONCRETE BLOCK WALL" PAY ITEM.

FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.

COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE ENGINEER.

COMPACTION WITHIN 3' OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.

CONTRACTOR SHALL DIRECT SURFACE RUNOFF TO AVOID DAMAGING WALL WHILE UNDER CONSTRUCTION.

THE CONTRACTOR SHALL DESIGN AND DETAIL THE WALL FOR THE SYSTEM ACTUALLY SUPPLIED.

STATIONS AND O/S'S ARE GIVEN TO THE TOP OF WALL AT THE BACK FACE.

AT ENDS OF THE WALL, GRADE THE EMBANKMENT TOWARDS THE R.O.W. AT A 1:3 (V:H) SLOPE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

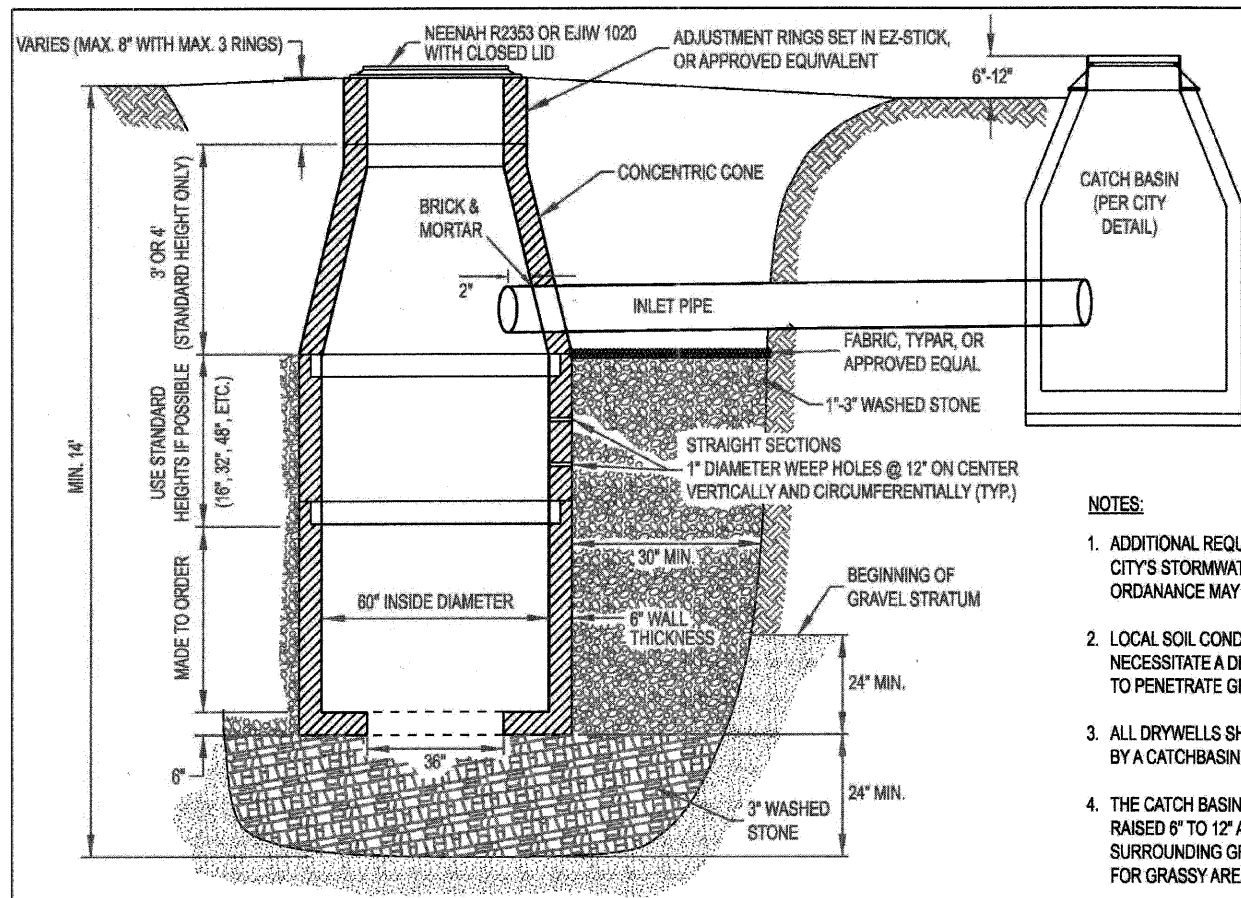
EAST CRYSTAL LAKE AVE
 SEGMENTAL CONCRETE BLOCK
 WALL AND POND REGRADING DETAILS

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

DATE 10/30/08

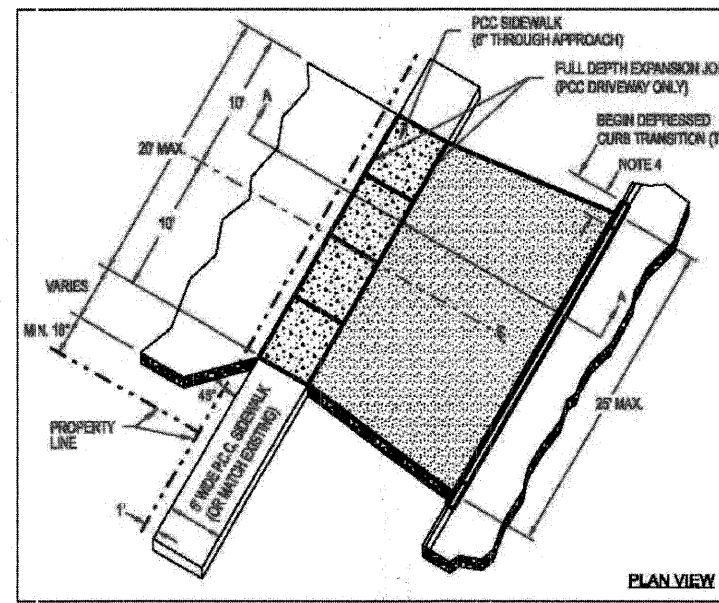
DRAWN BY LP
 CHECKED BY JJP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	18
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

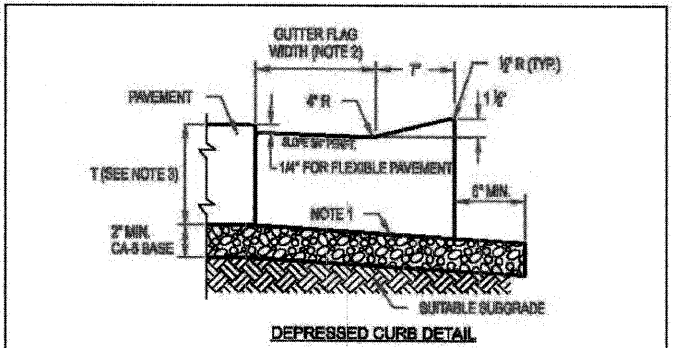
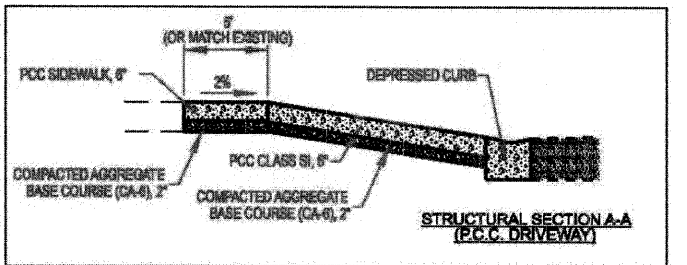
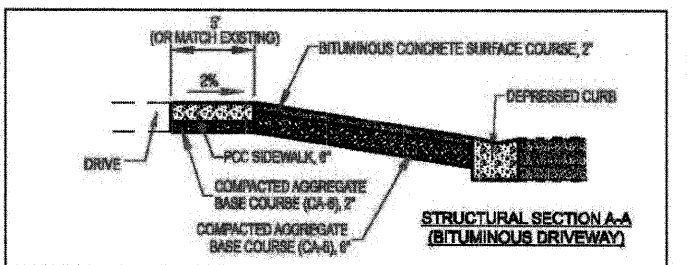


- NOTES:**
1. ADDITIONAL REQUIREMENTS FROM THE CITY'S STORMWATER MANAGEMENT ORDANANCE MAY APPLY.
 2. LOCAL SOIL CONDITIONS MAY NECESSITATE A DEEPER EXCAVATION TO PENETRATE GRANULAR SUBSOIL
 3. ALL DRYWELLS SHALL BE PRECEDED BY A CATCHBASIN.
 4. THE CATCH BASIN RIM SHALL BE RAISED 6" TO 12" ABOVE THE SURROUNDING GRADE FOR GRASSY AREAS ONLY.

UD-03



1. SLOPE SAME AS SUB-BASE OR 3/4" PER FT WHEN SUB-BASE IS OMITTED
2. AS REQUIRED FOR PAVEMENT TYPE
3. THICKNESS OF PAVEMENT "T". WHEN CURB AND GUTTER IS CONSTRUCTED ADJACENT TO FLEXIBLE PAVEMENT, THE VERTICAL THICKNESS OF THE GUTTER FLAG SHALL BE 9 INCHES. FOR BAM PAVEMENT SECTIONS THE GUTTER FLAG SHALL BE 12".
4. TRANSITION FROM FULL CURB TO DEPRESSED CURB IN 1 TO 1.5 LINEAL FEET. ALSO, THE DRIVEWAY SHALL BE NO LESS THAN 3/4 OF THE DEPRESSION.
5. DRIVEWAY APPROACH SHALL MEET CURB AND GUTTER AT A POINT BETWEEN FULL CURB AND ONE-HALF CURB HEIGHT.
6. DRIVEWAY FLARE SHALL BE SYMMETRIC ABOUT THE DRIVEWAY CENTERLINE, AS MEASURED AT THE PROPERTY LINE, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
7. DRIVEWAY PAVEMENT SHALL BE AT LEAST 2 INCHES HOT MIX ASPHALT SURFACE AND 8 INCHES COMPACTED CA-6 GRADE #8 GRAVEL BASE.



RD-01b

Approved: City Engineer

 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
DRYWELL

Drawing Number
UD-03
 Date: 4/15/2007
 Drawn: EM
 Checked: LZ



Approved: City Engineer

 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
**DRIVEWAY:
 RESIDENTIAL APPROACH**

Drawing Number
RD-01b
 Date: 4/15/2007
 Drawn: EM
 Checked: LZ



REVISIONS	
NAME	DATE

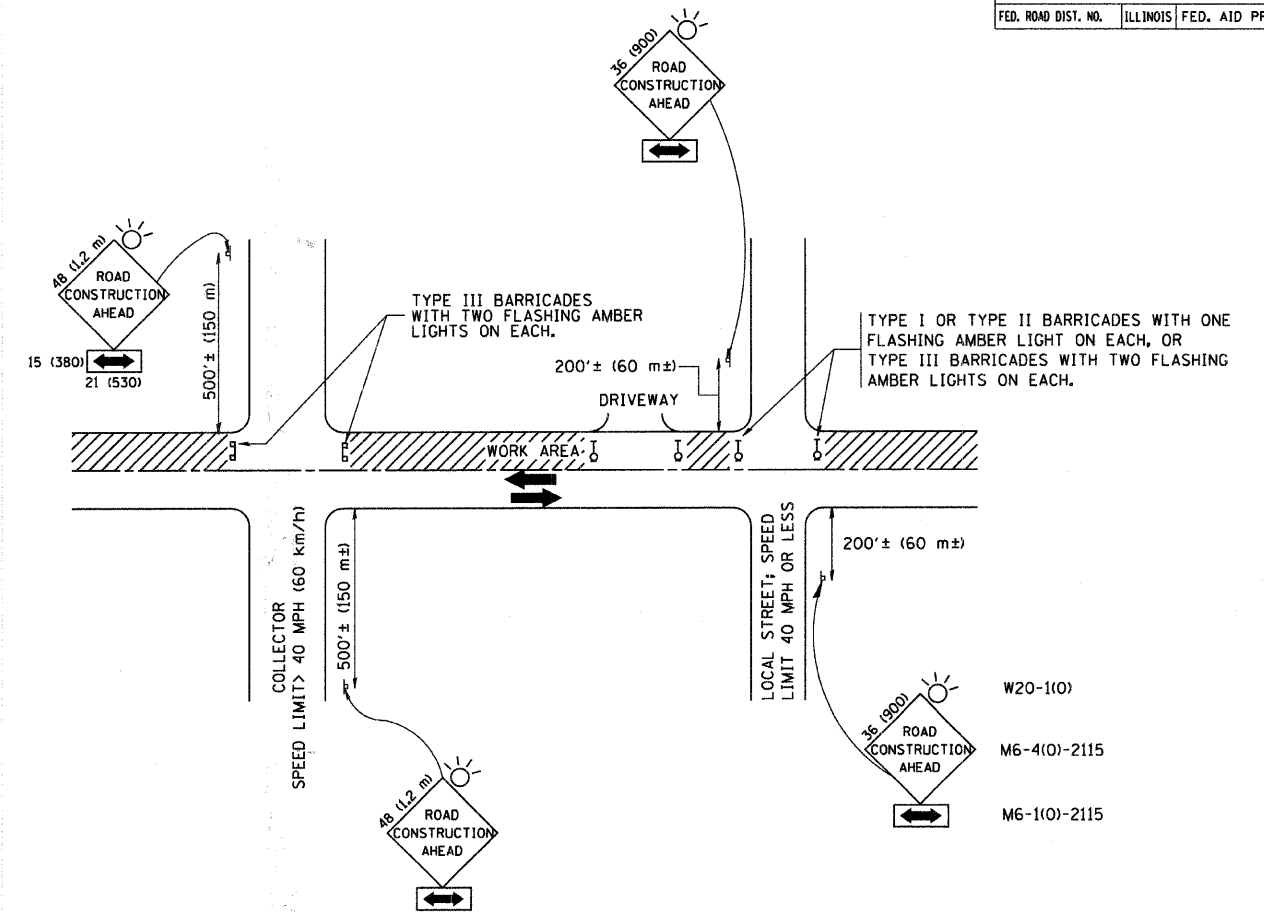
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

 CITY OF CRYSTAL LAKE DETAILS

 SCALE:
 DATE 10/30/08

 DRAWN BY LP
 CHECKED BY JIP

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

NOTES:

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

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

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

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

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

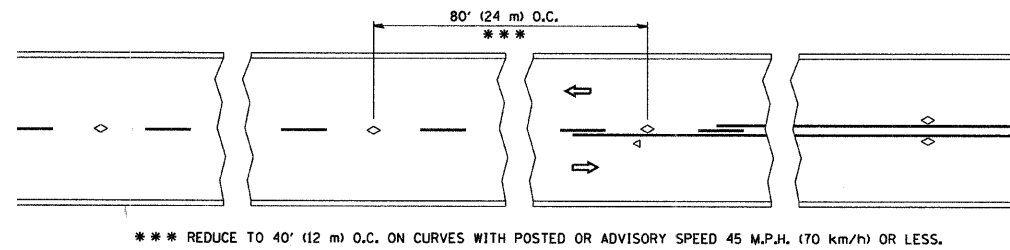
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

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

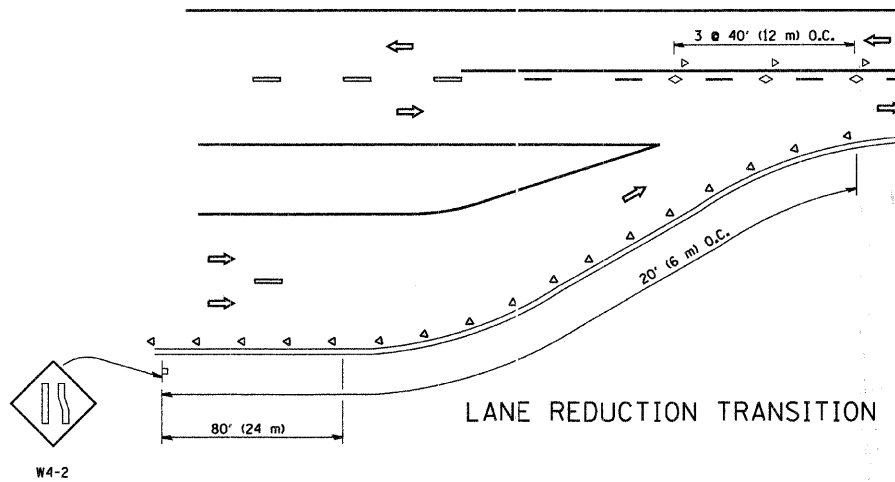
SCALE: NONE

DRAWN BY
 CHECKED BY
 TC-10

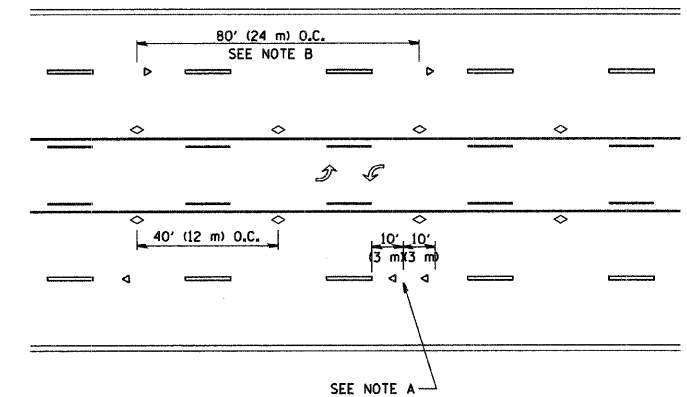
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116	06-00104-02-WR	McHENRY	38	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



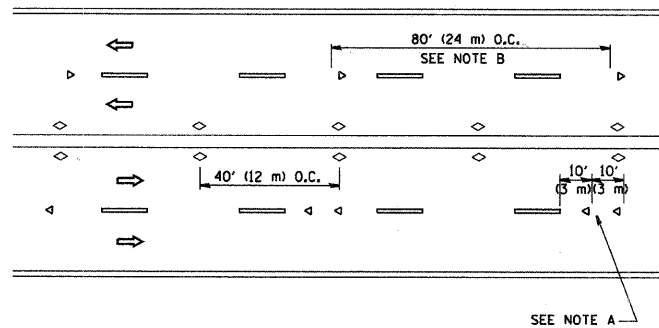
TWO-LANE/TWO-WAY



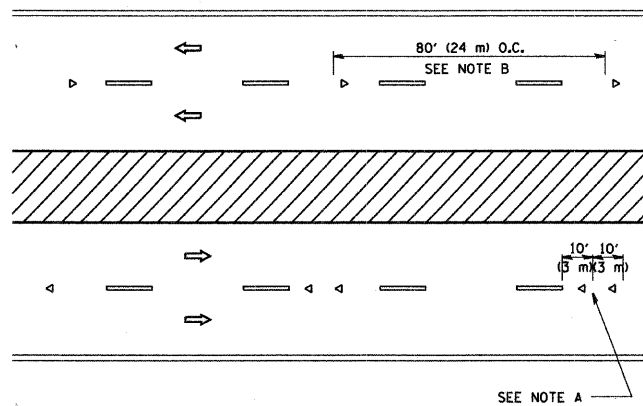
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

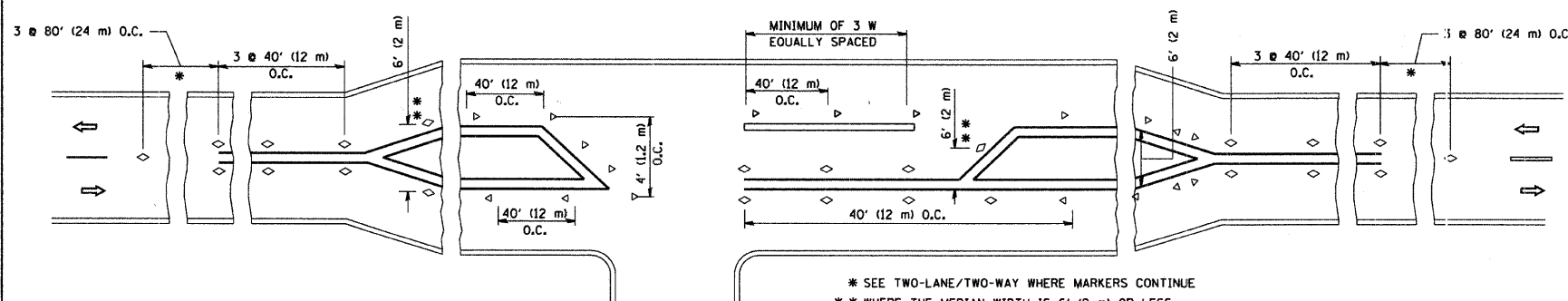
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/D)
- ◊ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

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 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

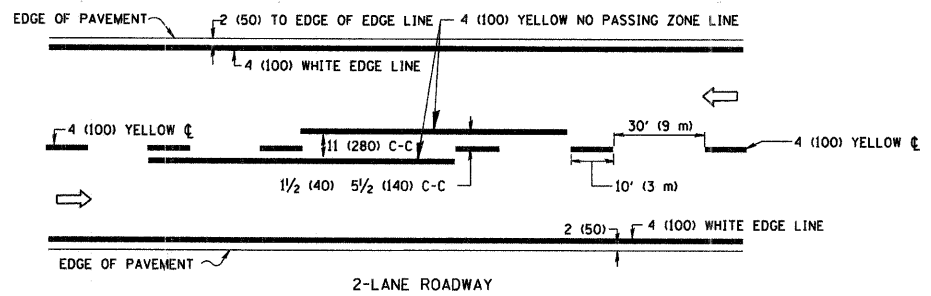
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT
MARKERS (SNOW-PLOW RESISTANT)

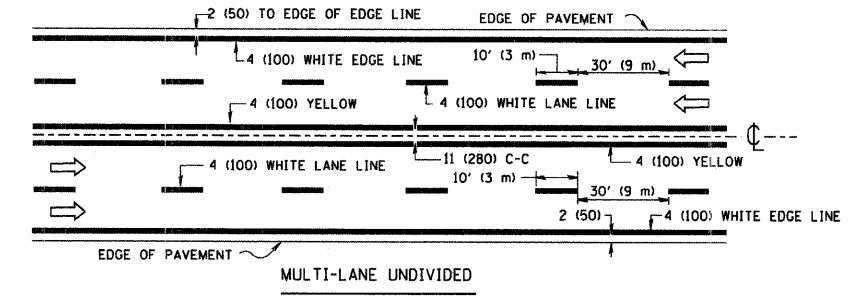
SCALE: NONE

DRAWN BY CADD
CHECKED BY
TC-11

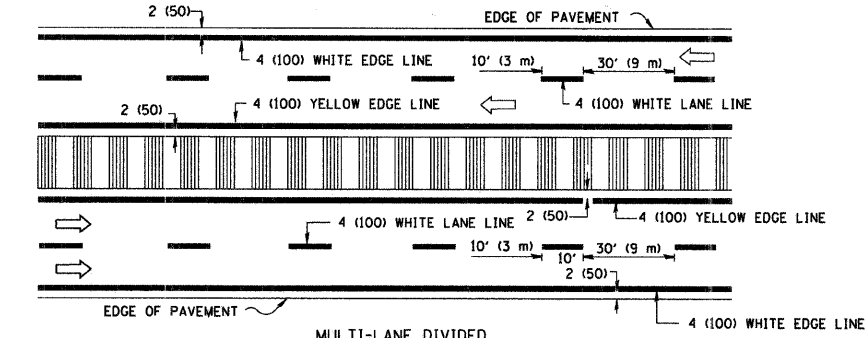
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



2-LANE ROADWAY



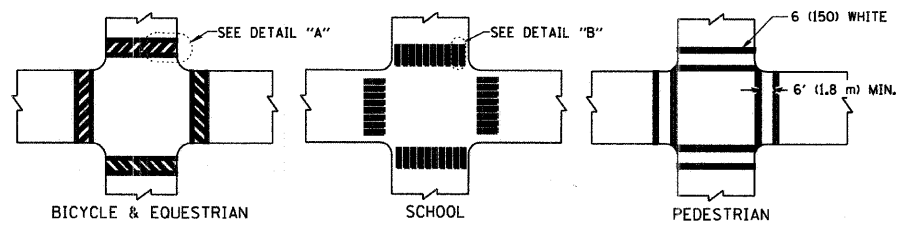
MULTI-LANE UNDIVIDED



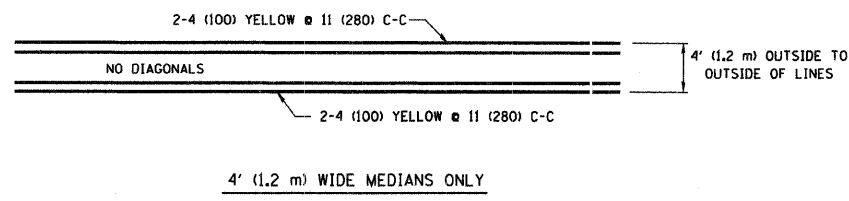
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

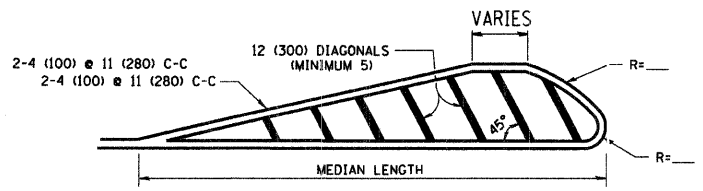
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

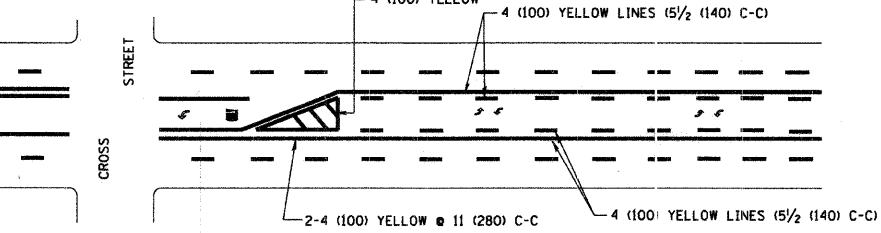


4' (1.2 m) WIDE MEDIANS ONLY



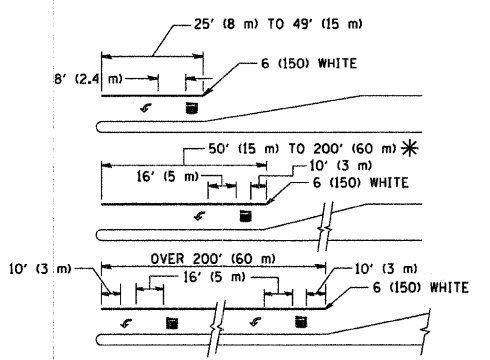
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h))
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

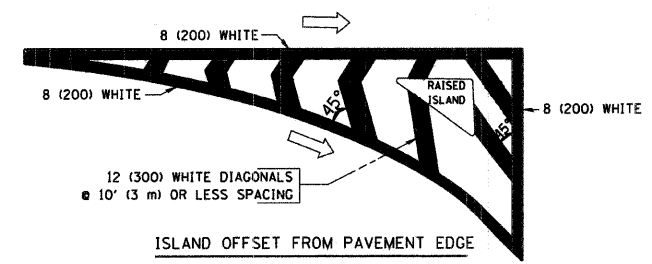
TYPICAL PAINTED MEDIAN MARKING



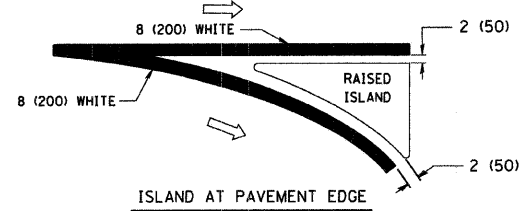
TYPICAL LEFT (OR RIGHT) TURN LANE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) 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 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR"=36 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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

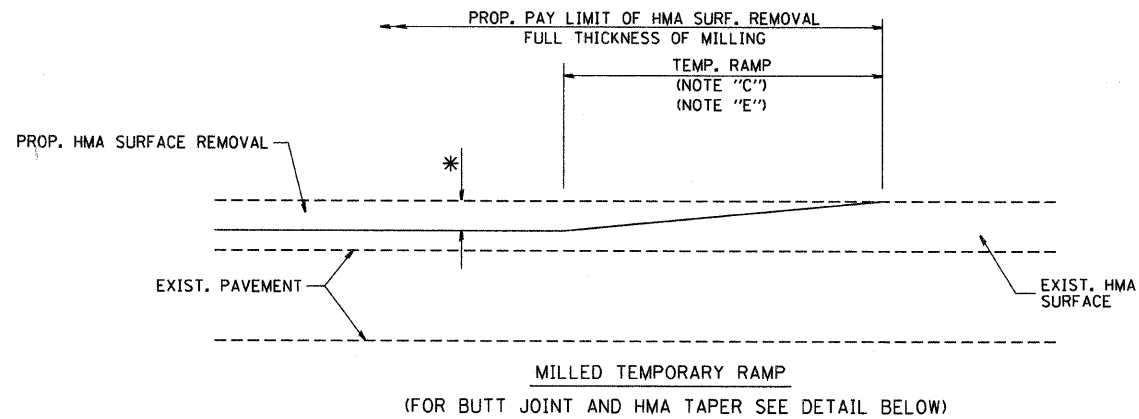
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE

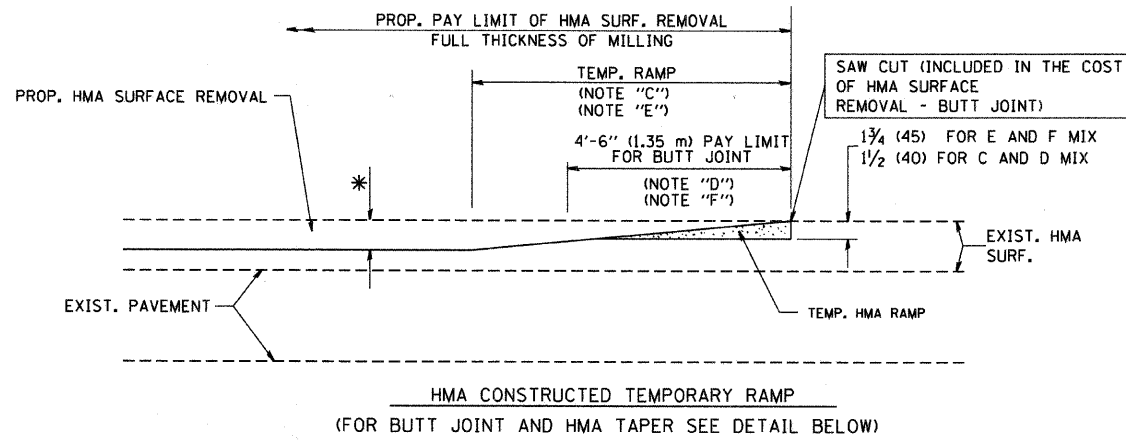
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 CHECKED BY

PLOT DATE = 3/6/2007
 PLOT SCALE = 80000 / 1 IN.
 USER NAME = bauerd1

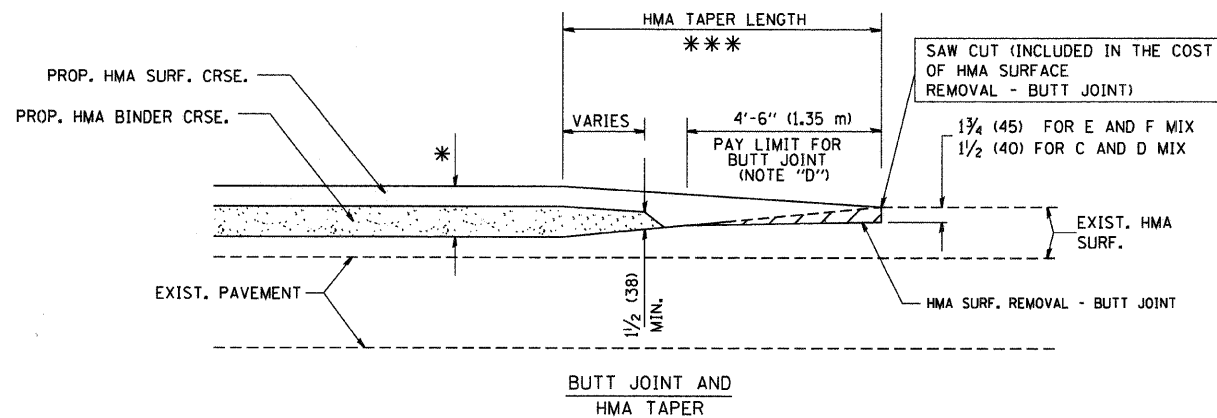
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	22
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



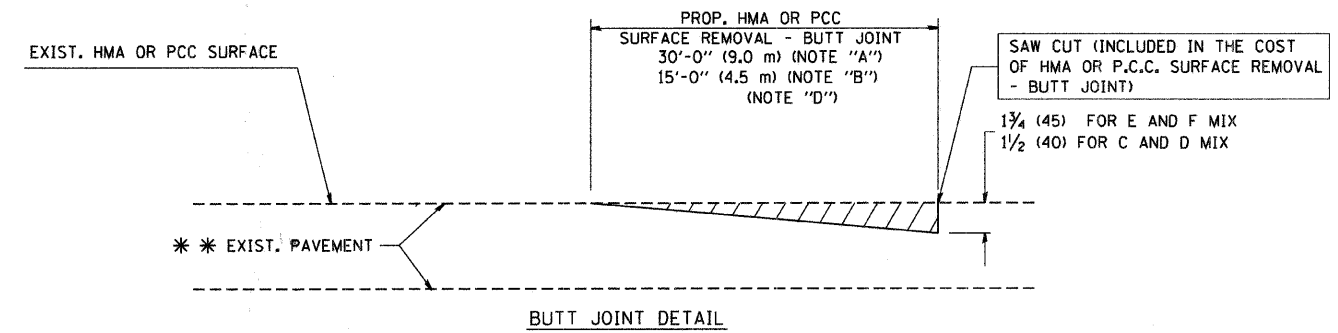
OPTION 1



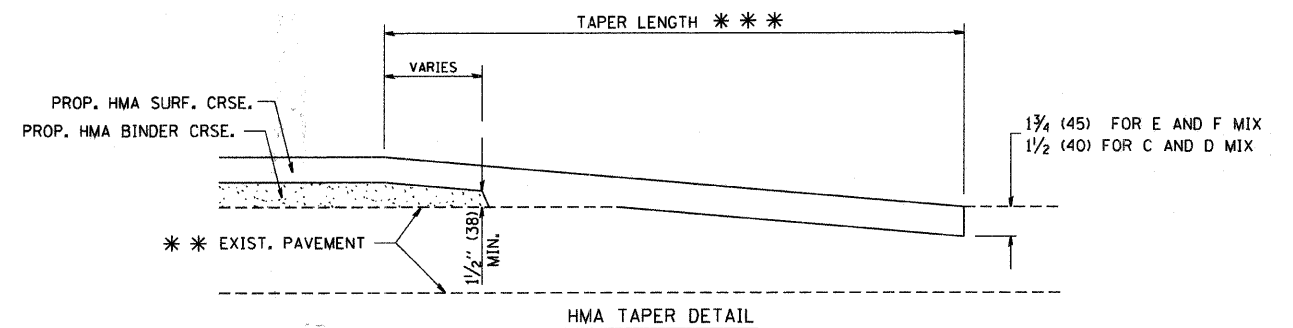
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

NOTES

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

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

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

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/26/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

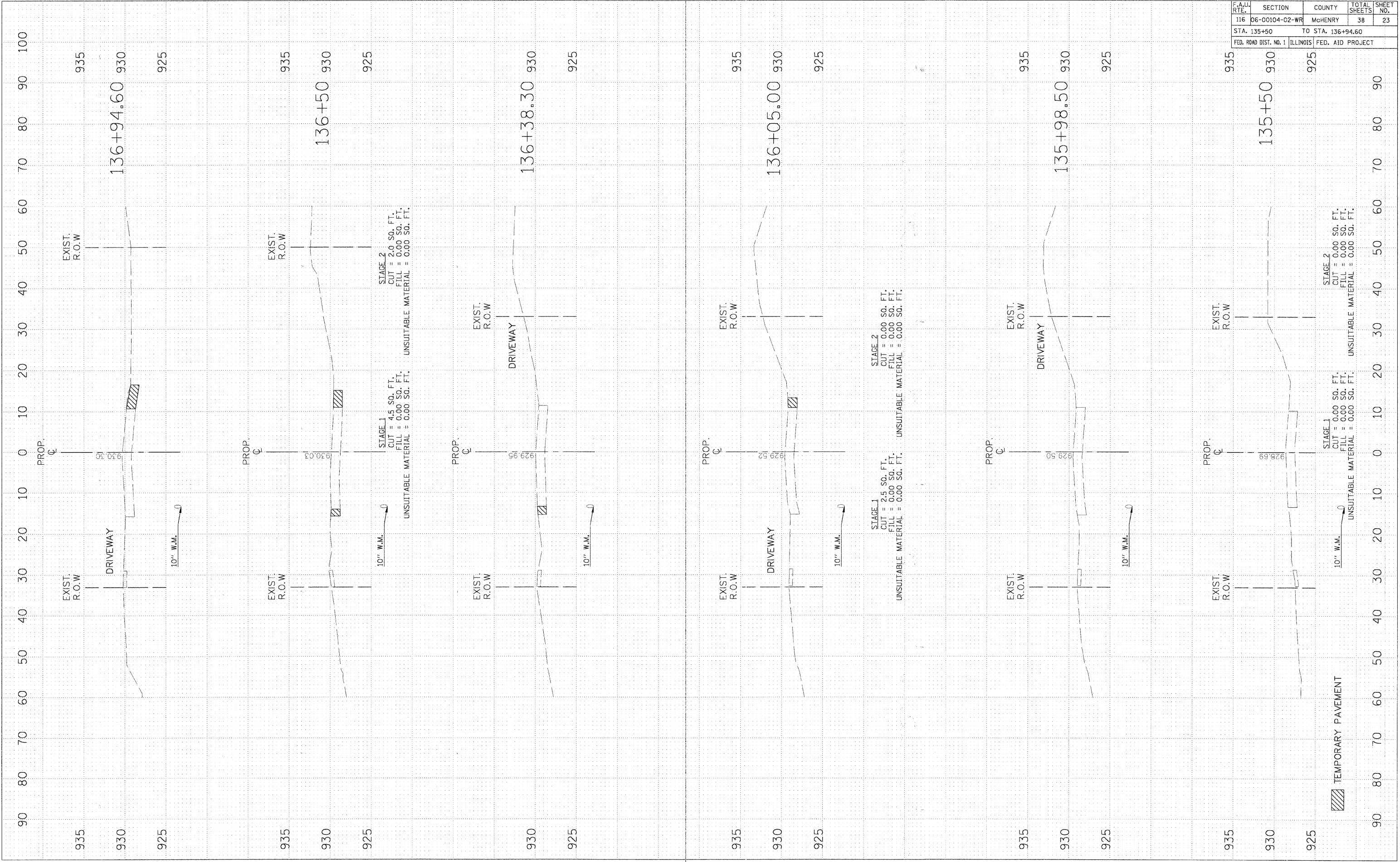
BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE
HORIZ.

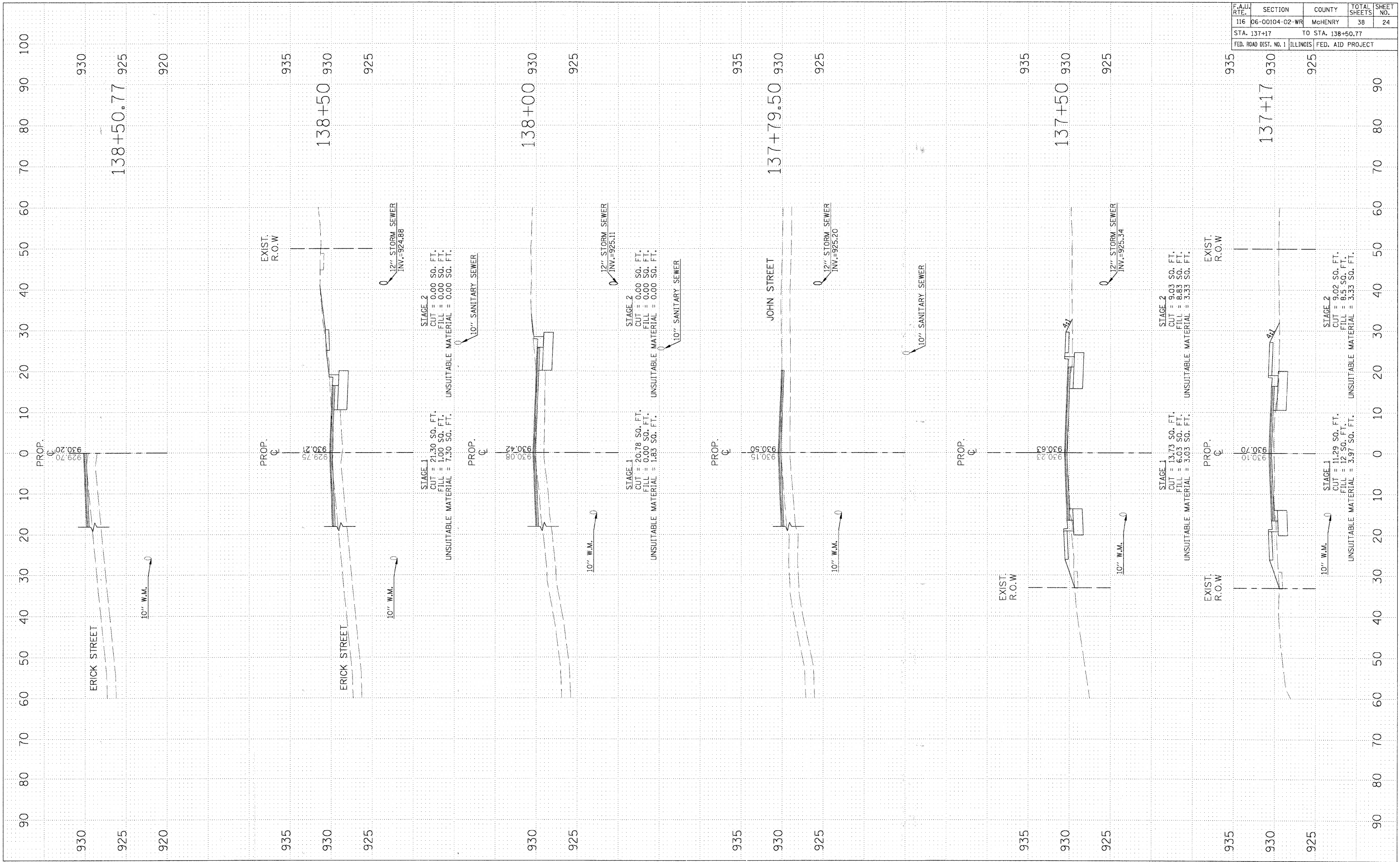
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CHECKED BY

BD400-05 (VI-BD32)

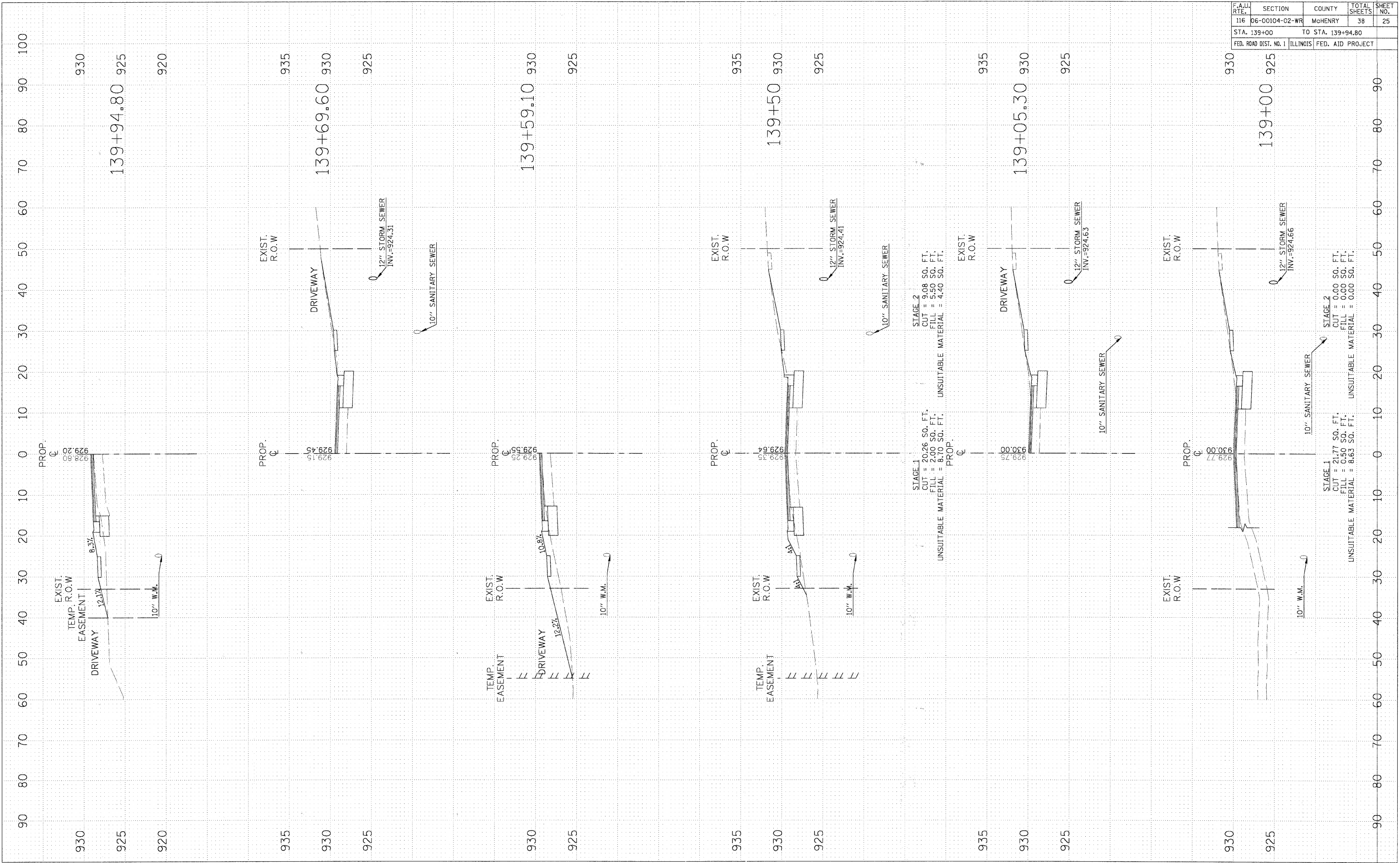
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-C2-WR	McHENRY	38	23
STA. 135+50		TO STA. 136+94.60		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	MCHENRY	38	24
STA. 137+17		TO STA. 138+50.77		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



F.A.J.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-C2-WR	McHENRY	38	25
STA. 139+00		TO STA. 139+94.80		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



930
139+94.80
925
920

935
139+69.60
930
925

139+59.10
930
925

935
139+50
930
925

935
139+05.30
930
925

930
139+00
925

PROP. C
929.45
928.66
928.66

PROP. C
929.15
928.66
928.66

PROP. C
929.29
928.66
928.66

PROP. C
929.35
928.66
928.66

PROP. C
929.75
928.66
928.66

PROP. C
929.77
928.66
928.66

STAGE 2
CUT = 9.08 SQ. FT.
FILL = 5.50 SQ. FT.
UNSUITABLE MATERIAL = 4.40 SQ. FT.

STAGE 1
CUT = 20.26 SQ. FT.
FILL = 2.00 SQ. FT.
UNSUITABLE MATERIAL = 8.70 SQ. FT.

STAGE 2
CUT = 0.00 SQ. FT.
FILL = 0.00 SQ. FT.
UNSUITABLE MATERIAL = 0.00 SQ. FT.

STAGE 1
CUT = 21.77 SQ. FT.
FILL = 0.50 SQ. FT.
UNSUITABLE MATERIAL = 8.63 SQ. FT.

12" STORM SEWER
INV.=924.31

10" SANITARY SEWER

12" STORM SEWER
INV.=924.41

10" SANITARY SEWER

12" STORM SEWER
INV.=924.63

10" SANITARY SEWER

12" STORM SEWER
INV.=924.66

10" SANITARY SEWER

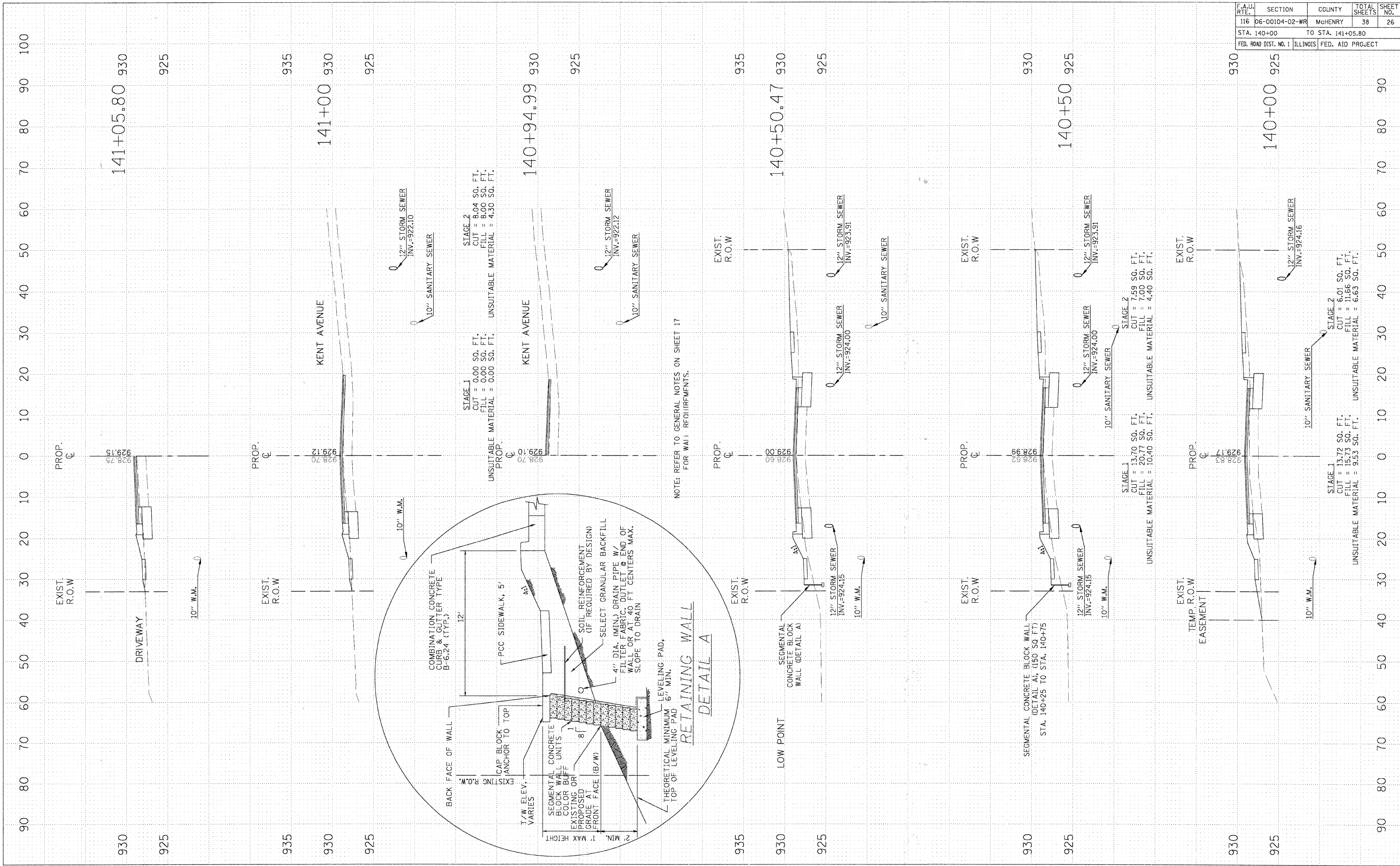
EXIST. R.O.W.
EASEMENT
DRIVEWAY
12.1%
8.3%
10" W.W.

EXIST. R.O.W.
EASEMENT
DRIVEWAY
12.2%
10.8%
10" W.W.

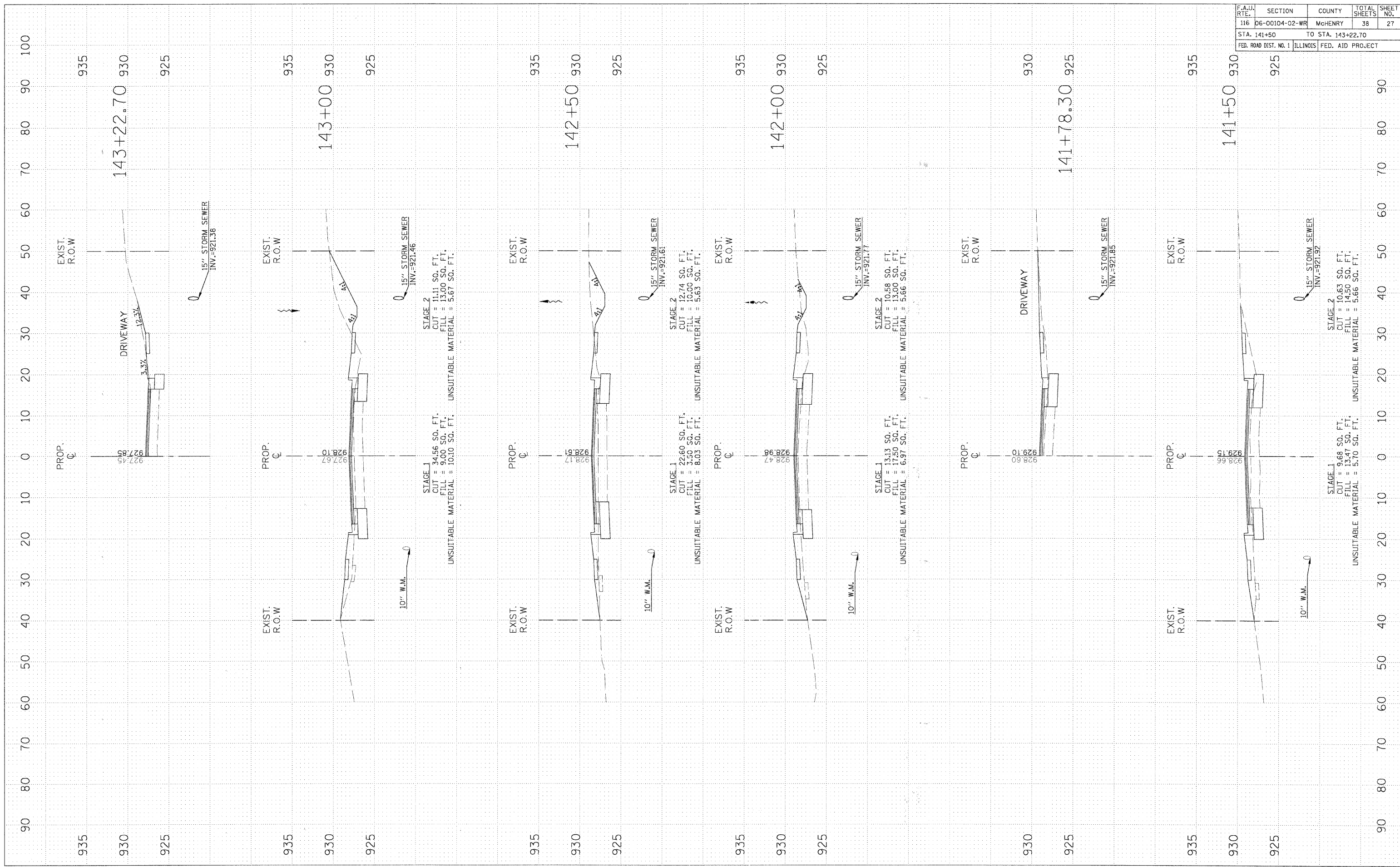
EXIST. R.O.W.
EASEMENT
DRIVEWAY
11%
10" W.W.

EXIST. R.O.W.
EASEMENT
DRIVEWAY
10" W.W.

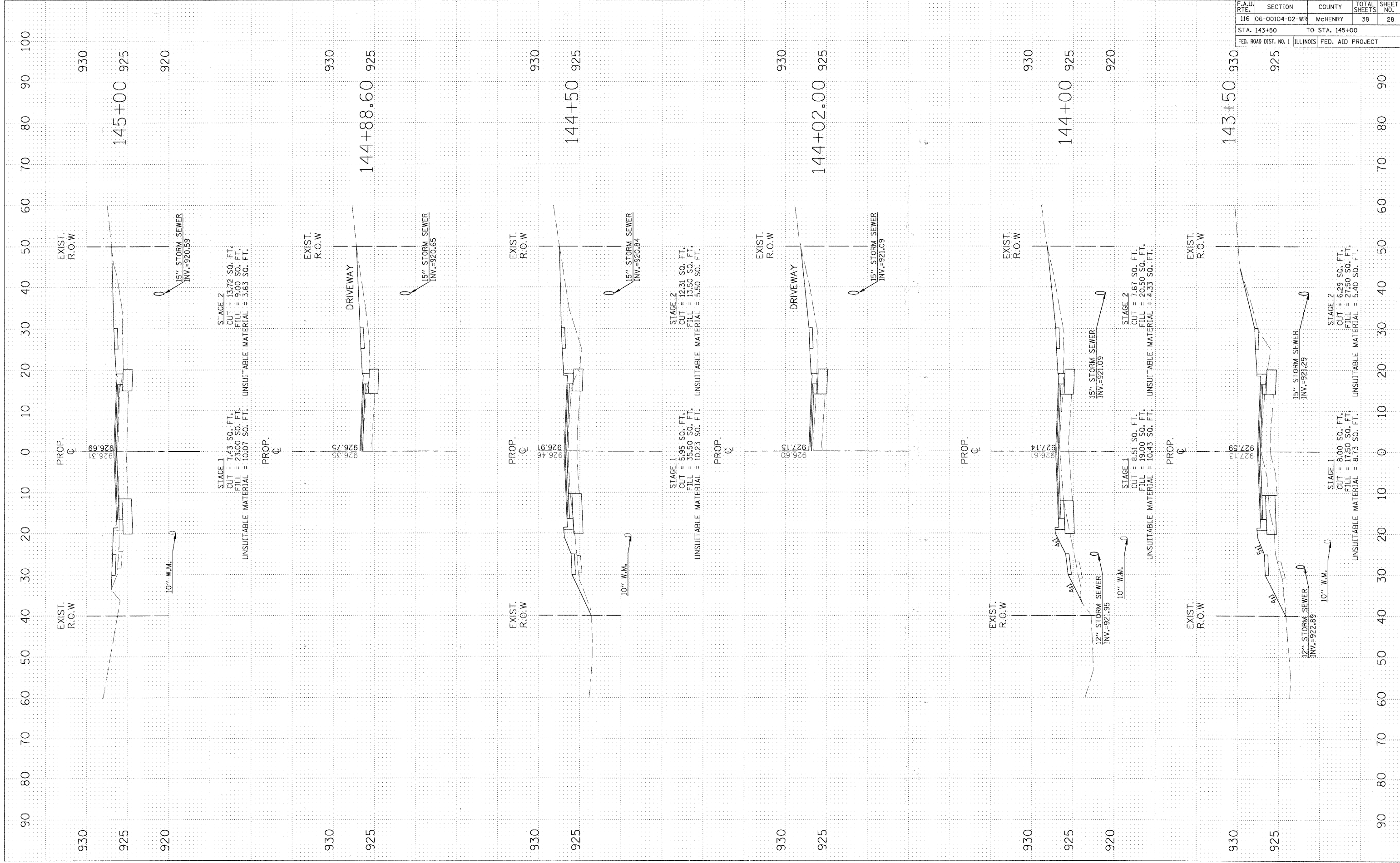
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	26
STA. 140+00 TO STA. 141+05.80				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



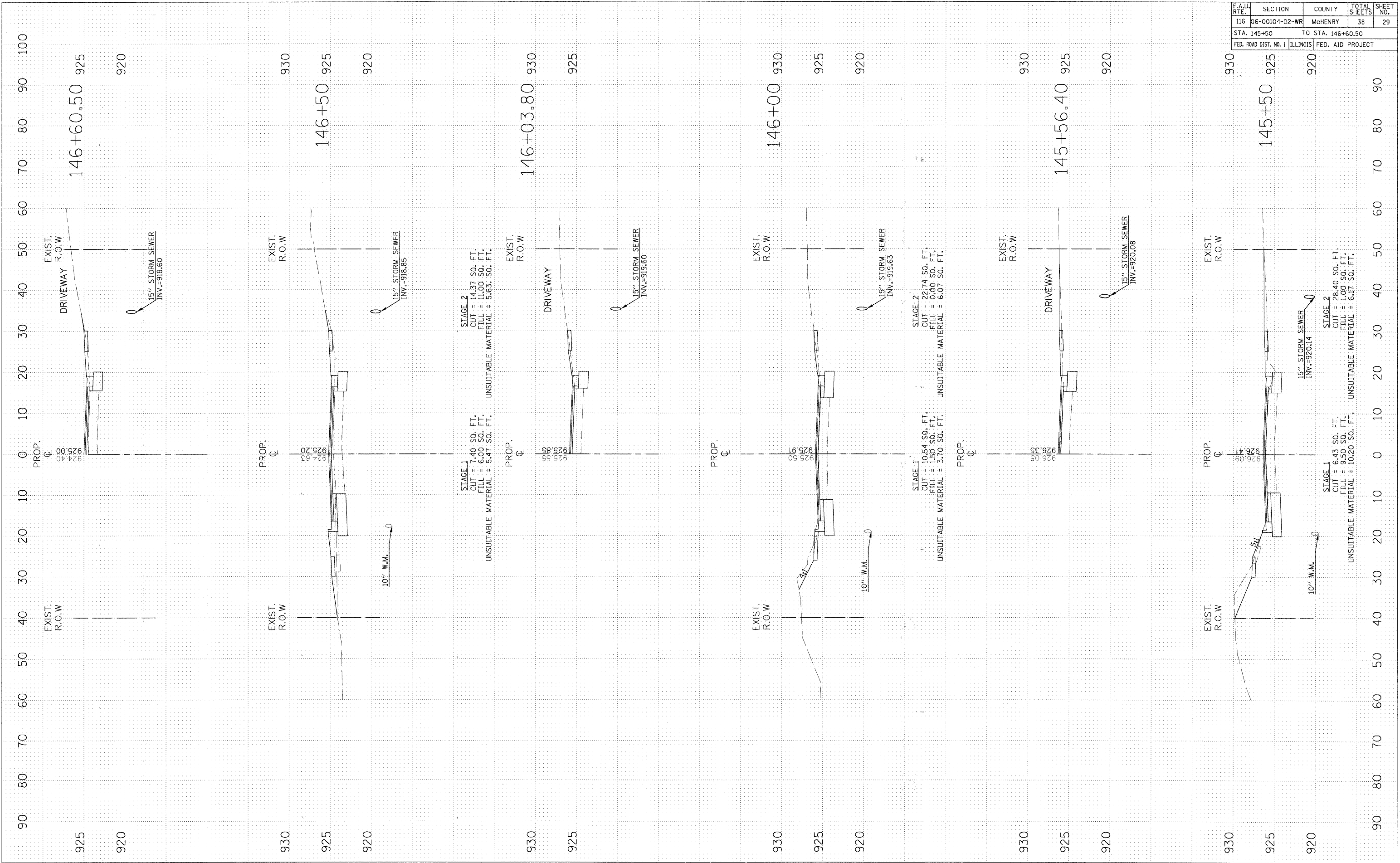
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	27
STA. 141+50 TO STA. 143+22.70				
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		



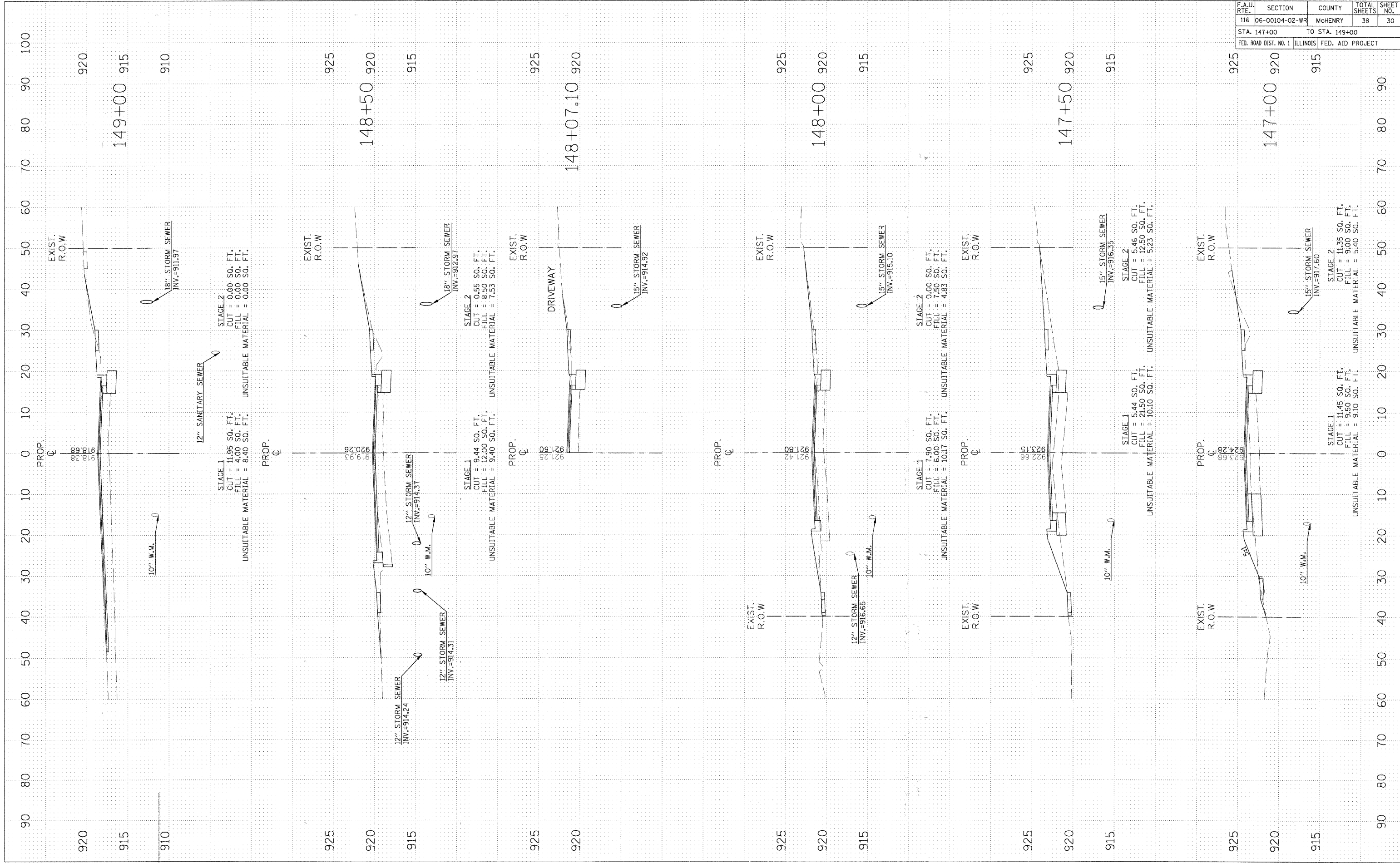
F.A.I.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	28
STA. 143+50		TO STA. 145+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



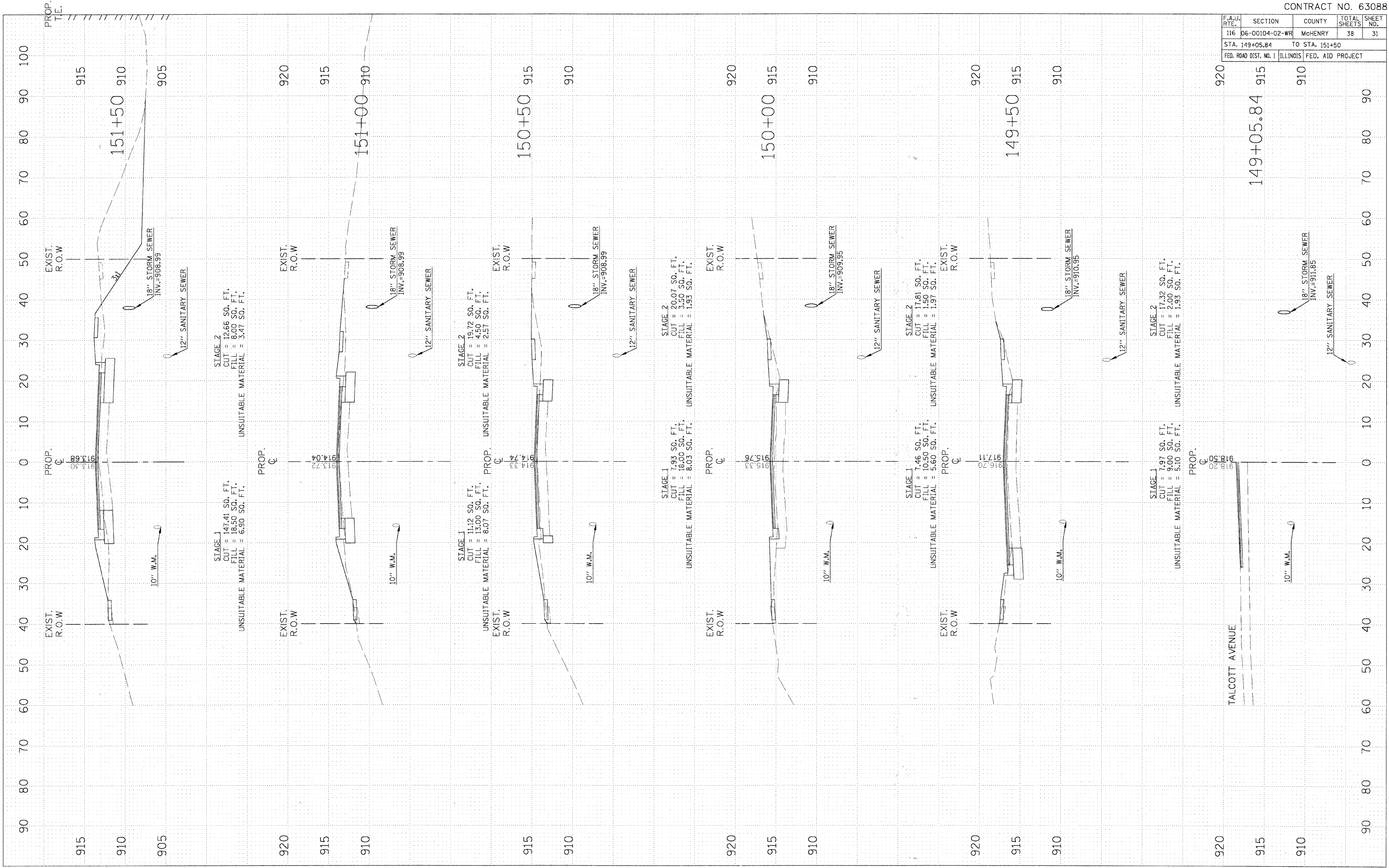
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	MCHEMRY	38	29
STA. 145+50		TO STA. 146+60.50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



F.A.J.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	30
STA. 147+00		TO STA. 149+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	31
STA. 149+05.84		TO STA. 151+50		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



151+50 915 910 905

151+00 910 915 920

150+50 915 910

150+00 915 910

149+50 915 910

149+05.84 915 910

915 910 905

920 915 910

915 910

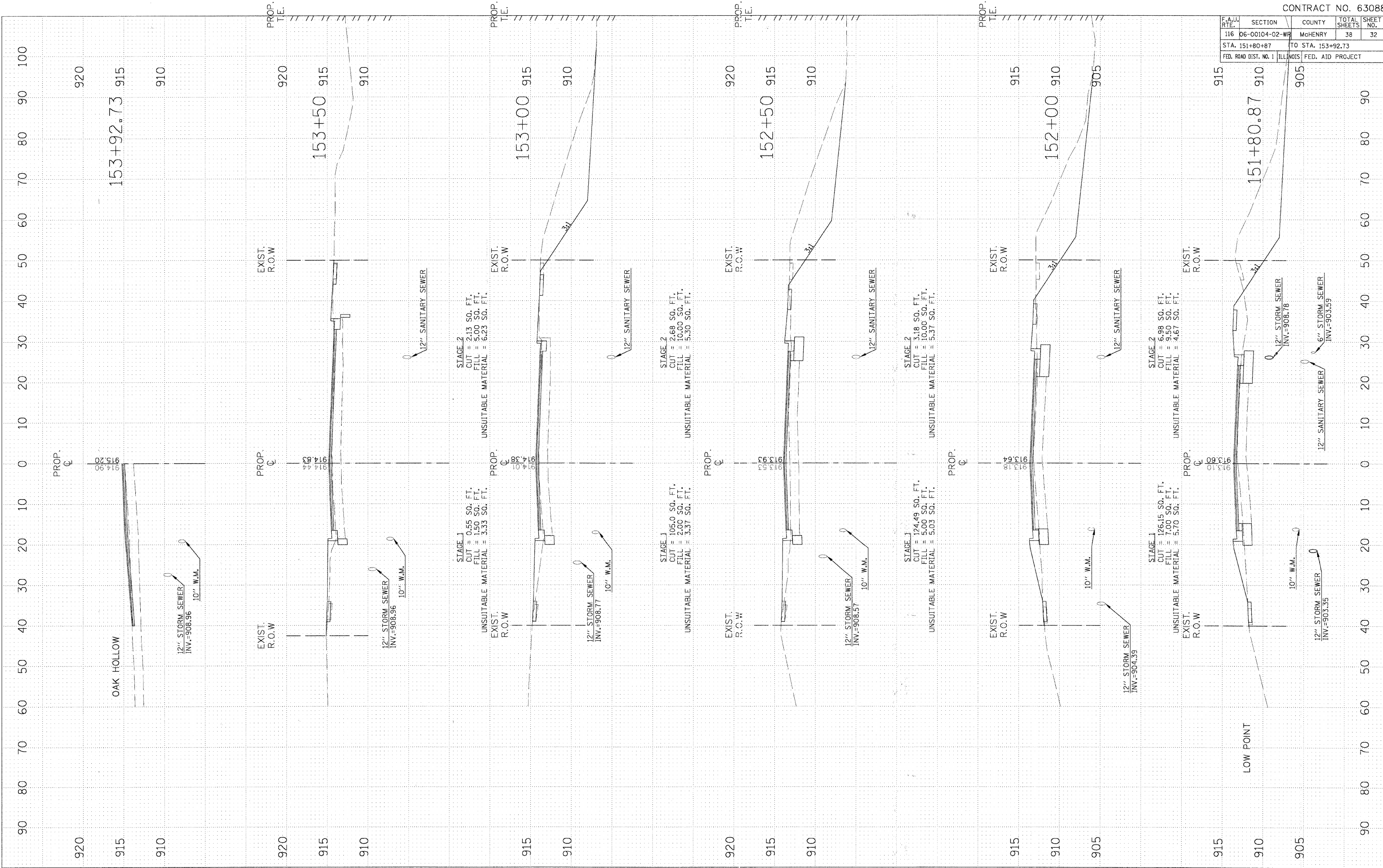
920 915 910

920 915 910

920 915 910

TALCOTT AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WP	MCHEMRY	38	32
STA. 151+80+87		TO STA. 153+92.73		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



153+92.73

153+50

153+00

152+50

152+00

151+80.87

STAGE 2
CUT = 2.13 SQ. FT.
FILL = 5.00 SQ. FT.
UNSUITABLE MATERIAL = 6.23 SQ. FT.

STAGE 1
CUT = 0.55 SQ. FT.
FILL = 1.50 SQ. FT.
UNSUITABLE MATERIAL = 3.33 SQ. FT.

STAGE 2
CUT = 2.68 SQ. FT.
FILL = 10.00 SQ. FT.
UNSUITABLE MATERIAL = 5.30 SQ. FT.

STAGE 1
CUT = 105.0 SQ. FT.
FILL = 2.00 SQ. FT.
UNSUITABLE MATERIAL = 3.57 SQ. FT.

STAGE 2
CUT = 3.18 SQ. FT.
FILL = 10.00 SQ. FT.
UNSUITABLE MATERIAL = 5.37 SQ. FT.

STAGE 1
CUT = 124.49 SQ. FT.
FILL = 5.00 SQ. FT.
UNSUITABLE MATERIAL = 5.03 SQ. FT.

STAGE 2
CUT = 6.98 SQ. FT.
FILL = 9.50 SQ. FT.
UNSUITABLE MATERIAL = 4.67 SQ. FT.

STAGE 1
CUT = 126.15 SQ. FT.
FILL = 7.00 SQ. FT.
UNSUITABLE MATERIAL = 5.70 SQ. FT.

12" STORM SEWER
INV.=908.78

6" STORM SEWER
INV.=903.59

12" STORM SEWER
INV.=903.35

LOW POINT

OAK HOLLOW

12" STORM SEWER
INV.=908.96

10" W.M.

12" STORM SEWER
INV.=908.96

10" W.M.

12" STORM SEWER
INV.=908.77

10" W.M.

12" STORM SEWER
INV.=908.57

10" W.M.

12" STORM SEWER
INV.=904.39

10" W.M.

12" STORM SEWER
INV.=903.35

12" SANITARY SEWER

12" SANITARY SEWER

12" SANITARY SEWER

12" SANITARY SEWER

12" SANITARY SEWER

PROP. C

PROP. C

PROP. C

PROP. C

PROP. C

PROP. C

EXIST. R.O.W

EXIST. R.O.W

EXIST. R.O.W

EXIST. R.O.W

EXIST. R.O.W

PROP. T.E

PROP. T.E

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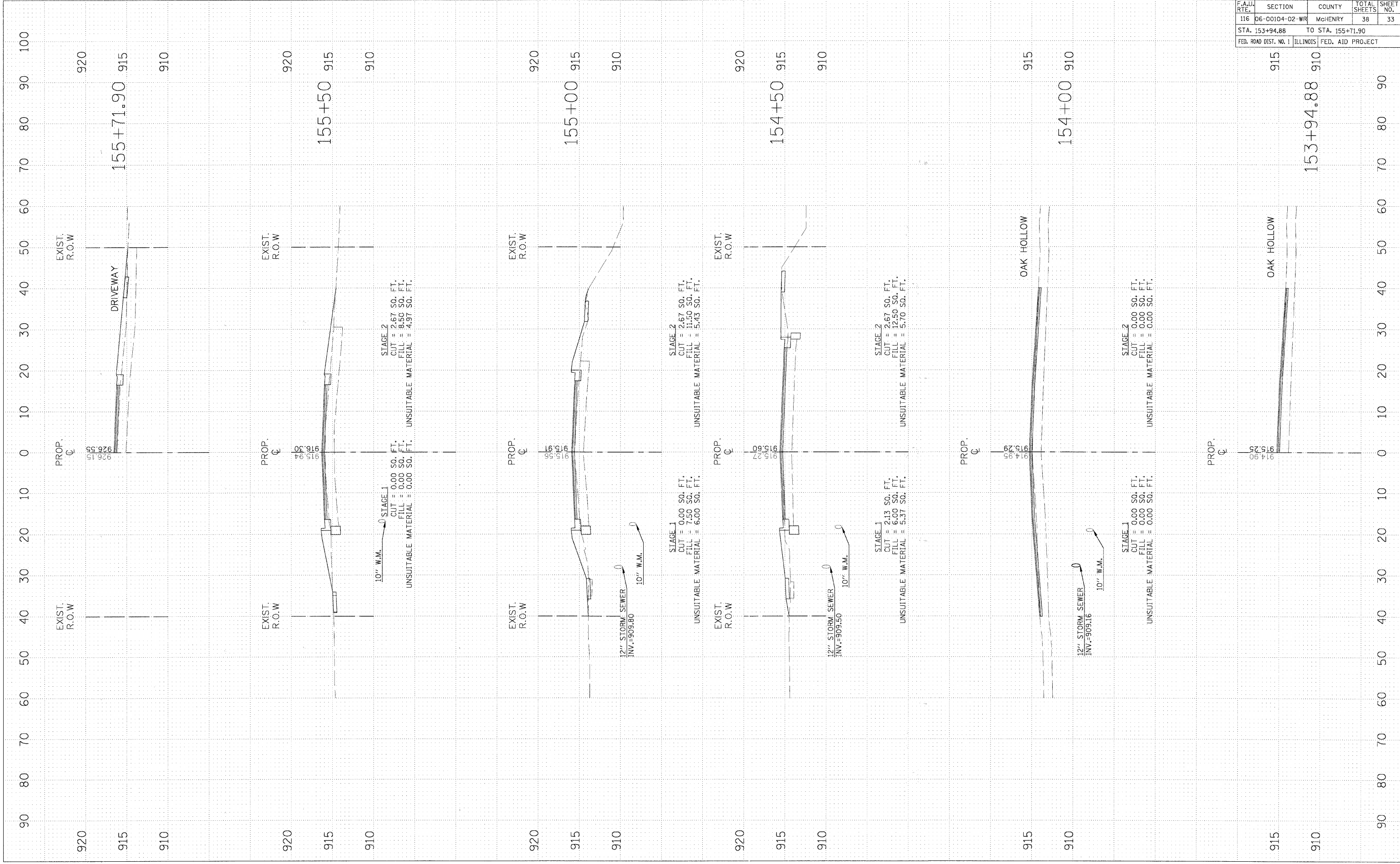
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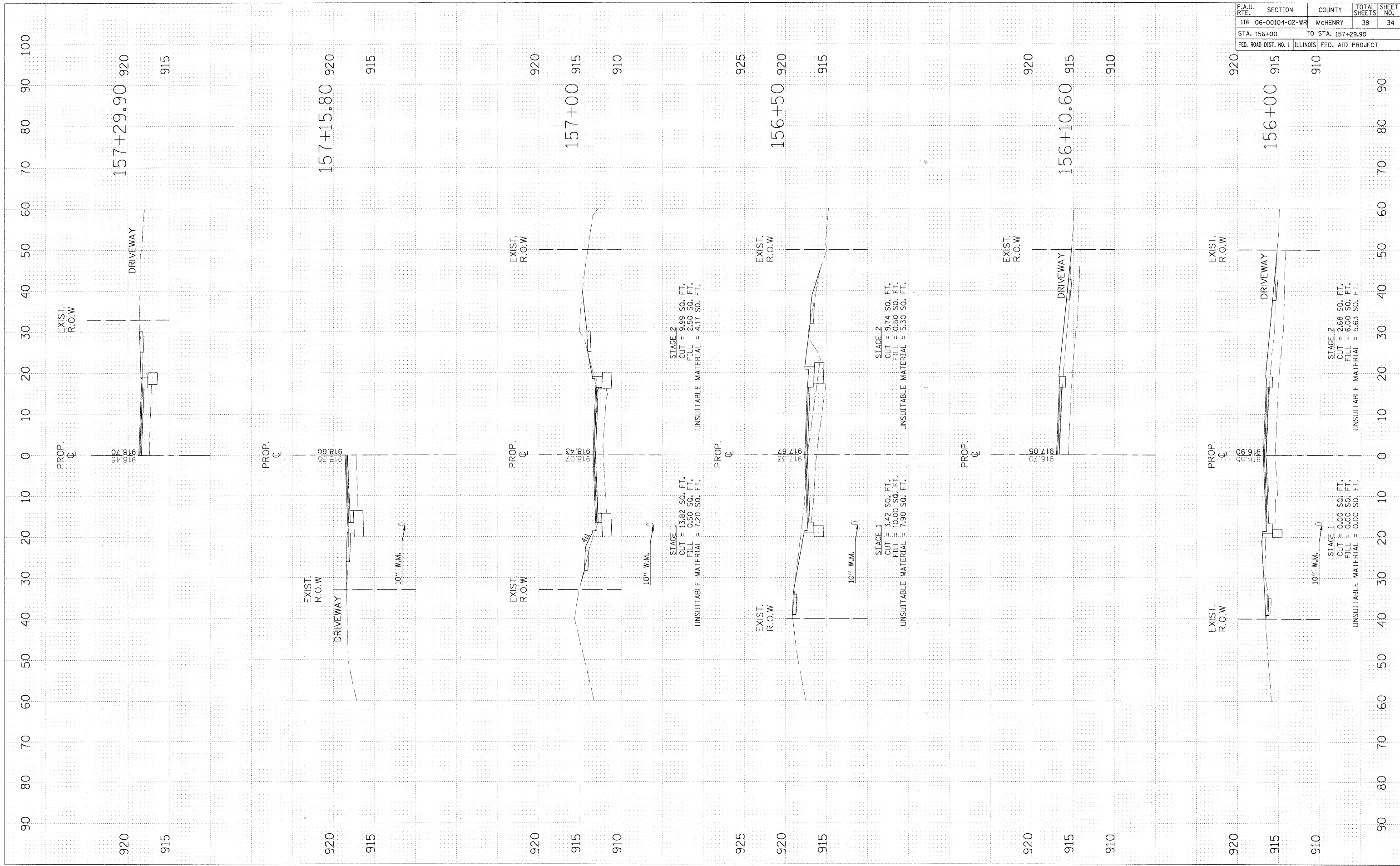
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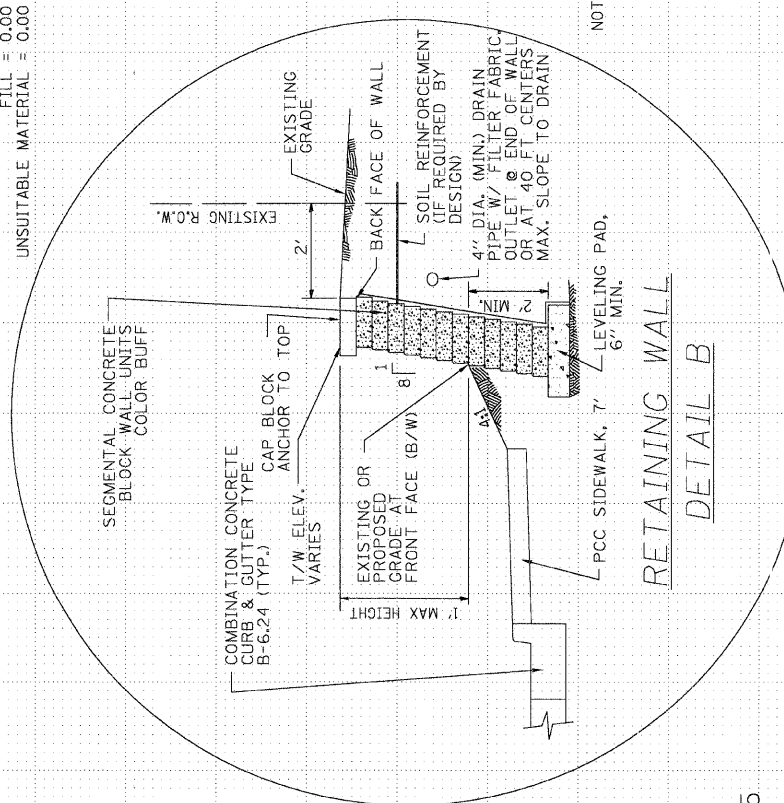
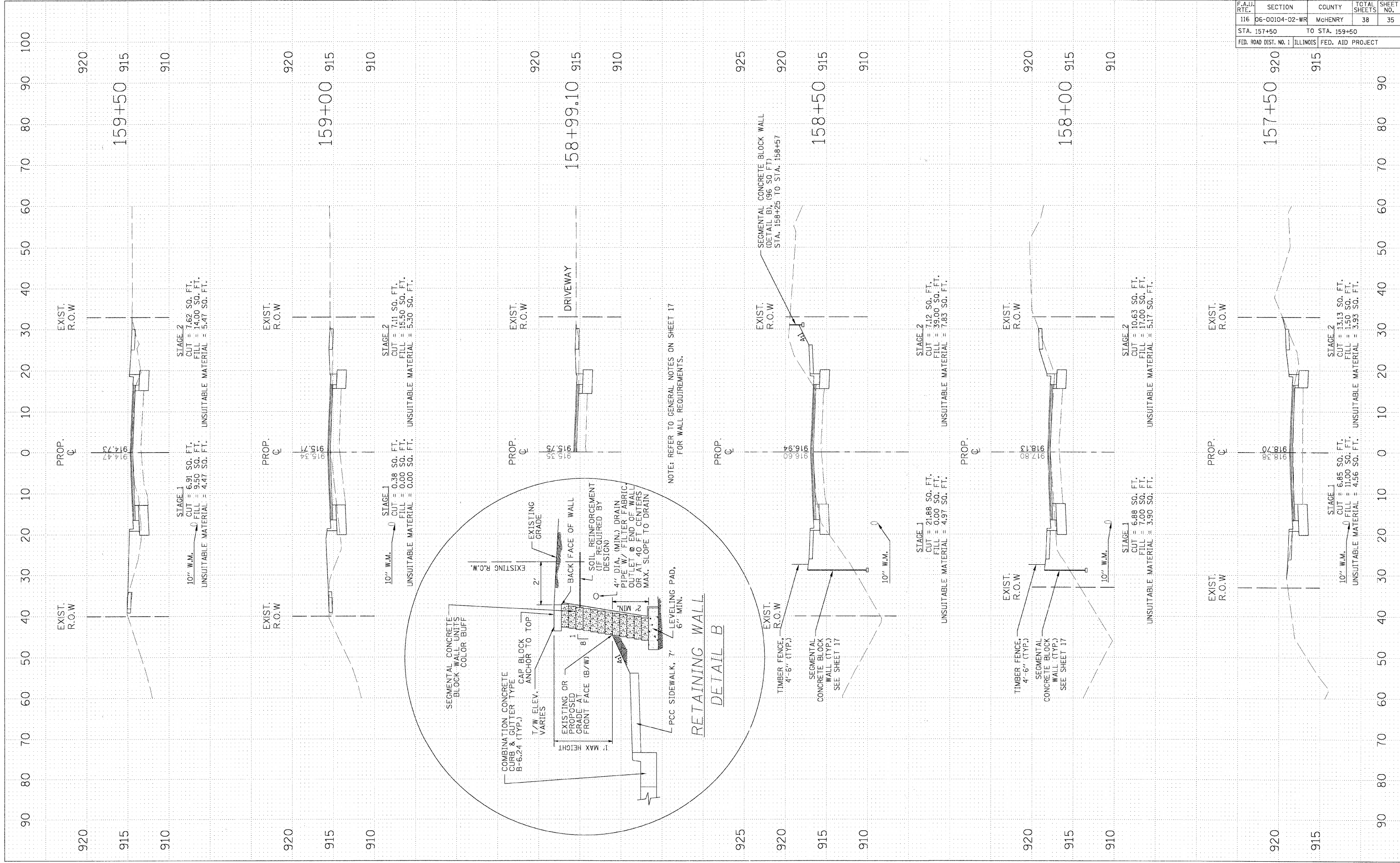
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	33
STA. 153+94.88		TO STA. 155+71.90		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	McHENRY	38	34
STA. 156+00 TO STA. 157+29.90				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

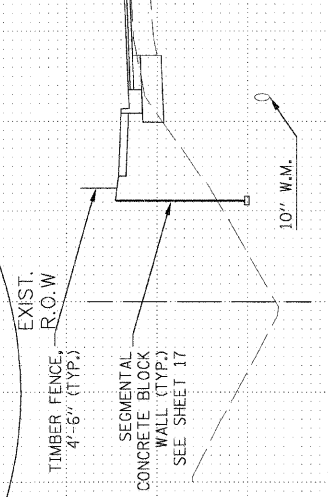
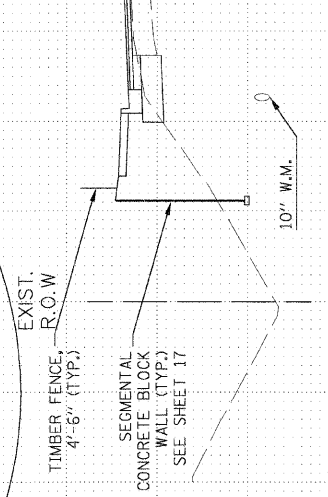


F.A.J.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	MCHEMRY	38	35
STA. 157+50		TO STA. 159+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



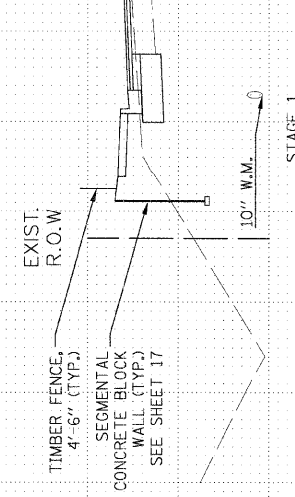
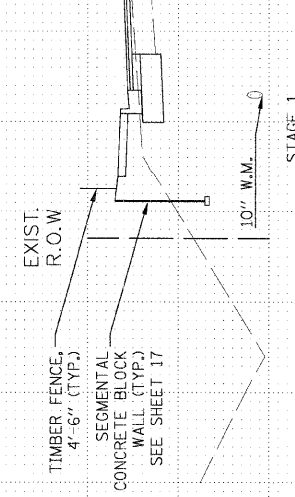
NOTE: REFER TO GENERAL NOTES ON SHEET 17 FOR WALL REQUIREMENTS.

RETAINING WALL DETAIL B



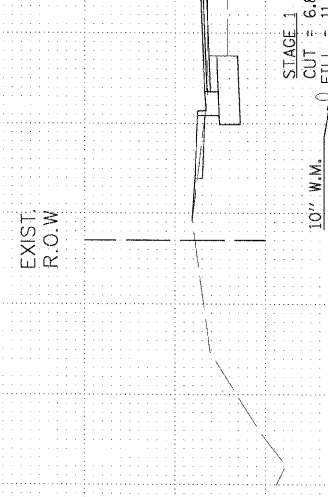
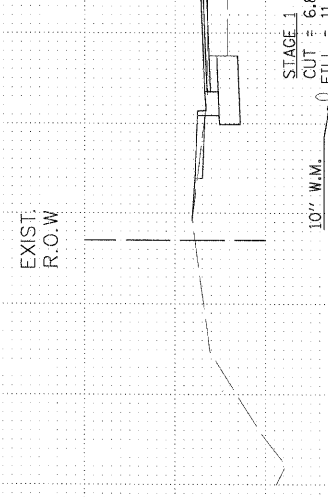
STAGE 1
 CUT = 21.88 SQ. FT.
 FILL = 0.00 SQ. FT.
 UNSUITABLE MATERIAL = 4.97 SQ. FT.

STAGE 2
 CUT = 7.12 SQ. FT.
 FILL = 39.00 SQ. FT.
 UNSUITABLE MATERIAL = 7.83 SQ. FT.



STAGE 1
 CUT = 6.88 SQ. FT.
 FILL = 7.00 SQ. FT.
 UNSUITABLE MATERIAL = 3.90 SQ. FT.

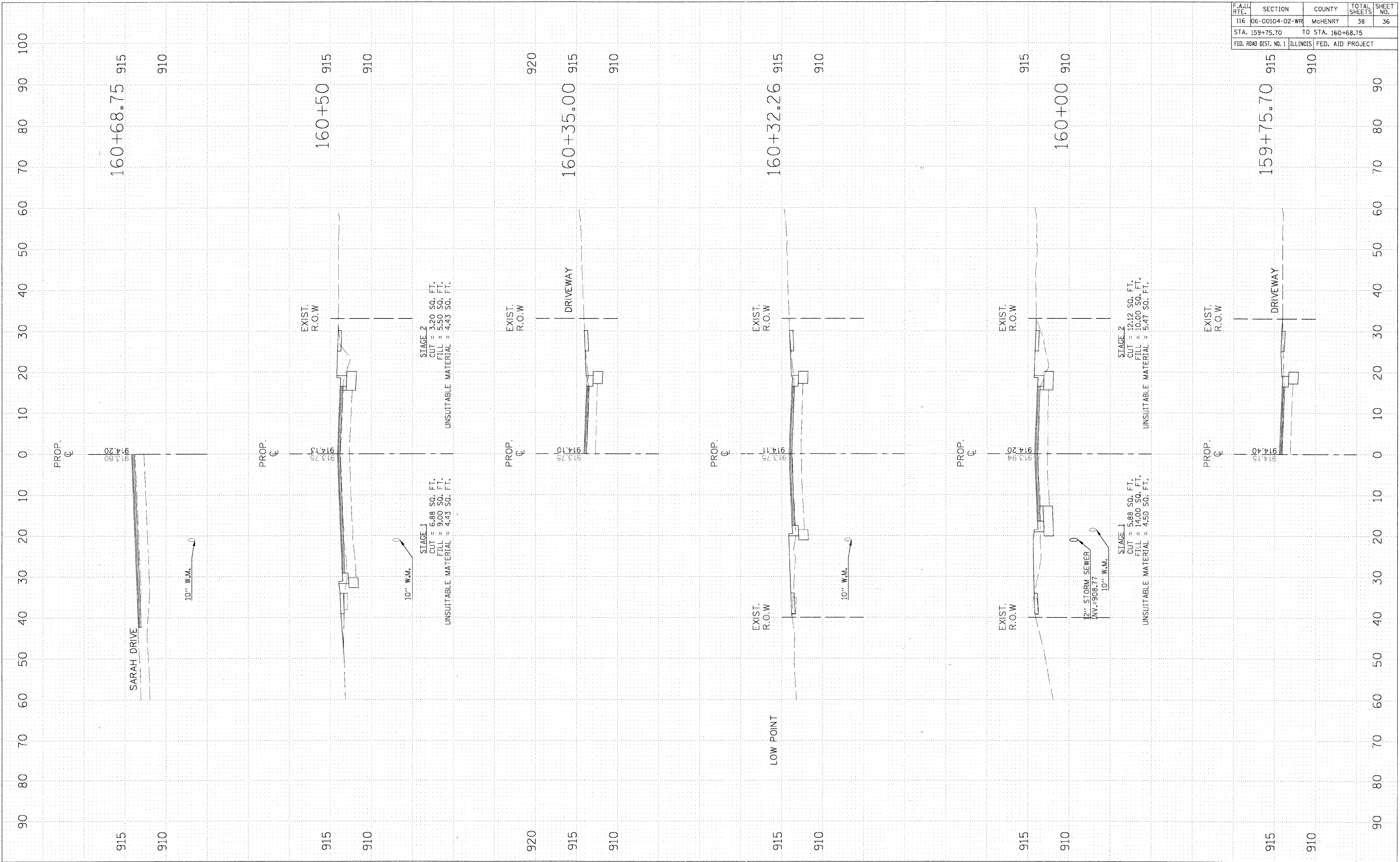
STAGE 2
 CUT = 10.63 SQ. FT.
 FILL = 17.00 SQ. FT.
 UNSUITABLE MATERIAL = 5.17 SQ. FT.



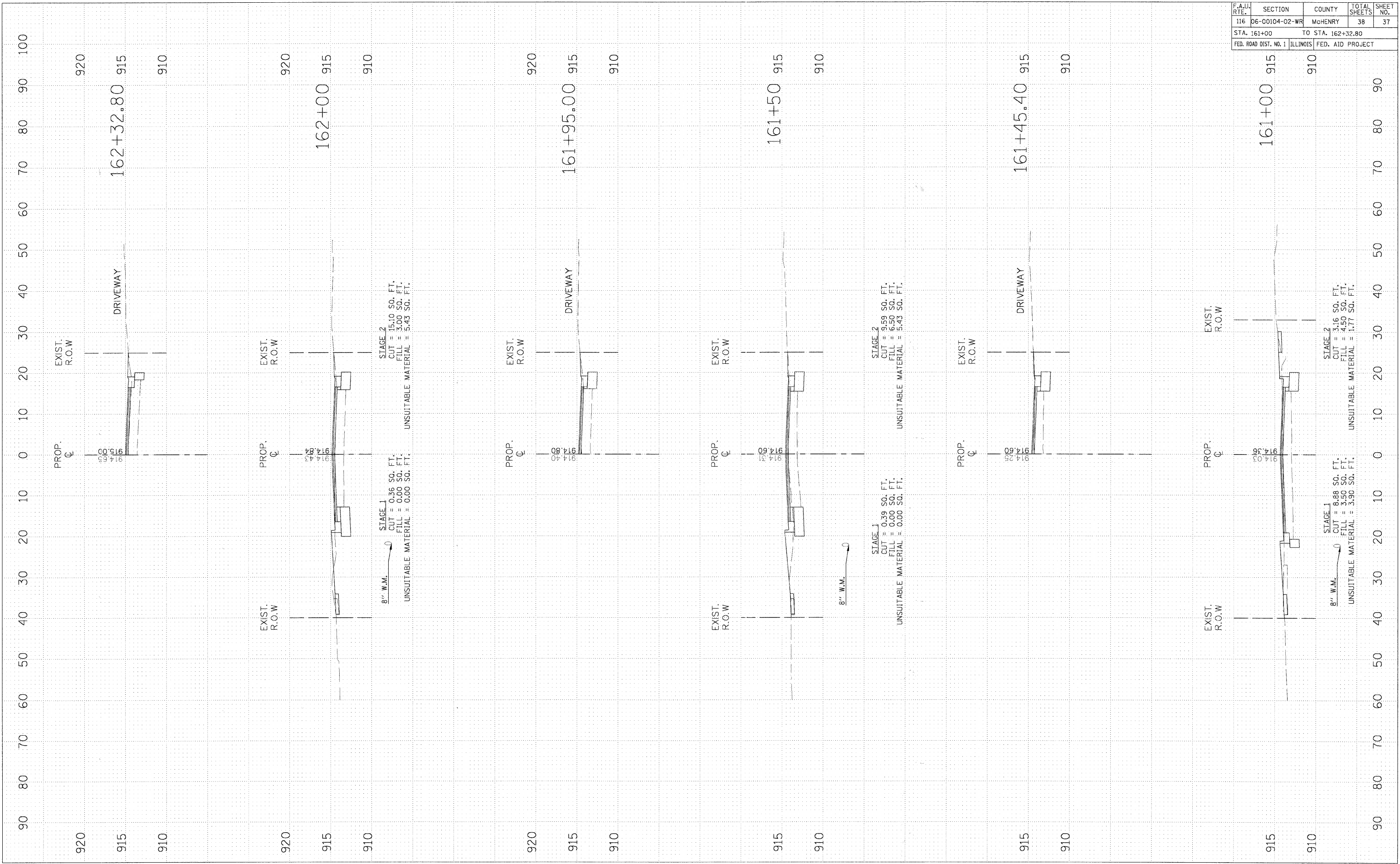
STAGE 1
 CUT = 6.85 SQ. FT.
 FILL = 11.00 SQ. FT.
 UNSUITABLE MATERIAL = 4.56 SQ. FT.

STAGE 2
 CUT = 13.13 SQ. FT.
 FILL = 1.50 SQ. FT.
 UNSUITABLE MATERIAL = 3.93 SQ. FT.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	MCHEMRY	38	36
STA. 159+75.70		TO STA. 160+68.75		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	MCHEMRY	38	37
STA. 161+00		TO STA. 162+32.80		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-02-WR	MCHEMRY	38	38
STA. 162+50		TO STA. 162+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

