

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	1
		ILLINOIS	CONTRACT NO. 63524	

+1 (65)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

**FAU 116 (EAST CRYSTAL LAKE AVENUE) (SEGMENT 1)
EAST OF MAIN STREET TO WEST OF ERICK STREET
ROADWAY WIDENING, RESURFACING
SECTION: 06-00104-01-WR
PROJECT: M-9003(017)
MCHENRY COUNTY**

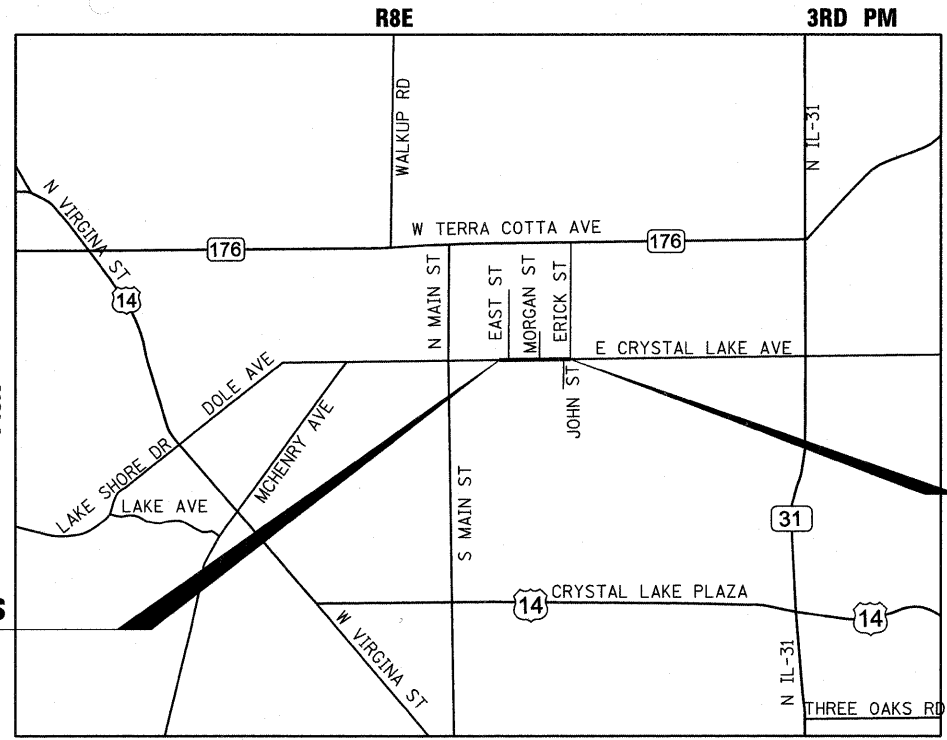
C-91-401-08



FUNCTIONAL CLASSIFICATION
URBAN MINOR ARTERIAL
ADT = 9000 (2009), 11000 (2030)
DESIGN SPEED LIMIT: 30 MPH
POSTED SPEED LIMIT: 30 MPH

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS
APPROVED <u>January 31 2011</u> <i>Erik D. Hunt</i> CITY OF CRYSTAL LAKE
PASSED <u>February 24 2011</u> <i>Christina Christensen</i> DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW <u>February 24 2011</u> <i>Diana M. O'Neil</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

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



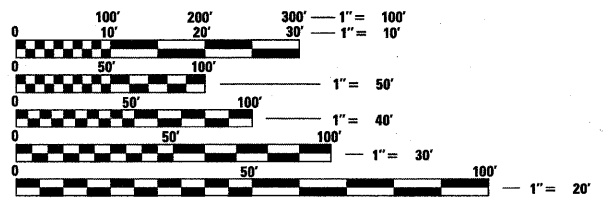
LOCATION MAP

MAP SCALE: NTS

ALGONQUIN AND NUNDA TOWNSHIPS

EAST CRYSTAL LAKE AVENUE GROSS AND NET LENGTH = 1207.0 FT. = 0.229 MILE

**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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD SUITE 200 ITASCA, IL 60143
 P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.com
 ITASCA • CHICAGO • ALGONQUIN • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

Craig A. Lukowicz
 CRAIG A. LUKOWICZ
 ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-041788
 MY LICENSE EXPIRES ON 11-30-11. DATE 1/31/11



PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

CONTRACT NO. 63524

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, 2011; 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. 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 JULIE AT 800-892-0123 AND COORDINATING WITH 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/RPZ 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.
7. ALL STORM SEWER CONNECTIONS WITH PIPES 2' DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 2' DIAMETER OPENINGS OF THE SPECIFIED DIAMETER, SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST "TEE" AND "WYE" PIPE CONNECTIONS FOR THE PROPOSED STORM SEWER LARGER THAN 2' WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR STORM SEWERS.

BACKFILL

1. 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.

SIGNS

1. 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. 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.
4. 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.
5. 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.
6. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
7. 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
8. 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.
9. THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSTABLE MATERIALS.
10. 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.
11. USE A FERTILIZER WITH AN ANALYSIS OF 1:1 RATIO AT THE FOLLOWING RATE PER ACRE:

	SEEDING	SODDING
12. 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 3 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 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.
16. 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.

FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwenger	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE GENERAL NOTES			F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 2
	1\CADD_Sheets\DI63524-shit-gennote.dgn	DRAWN - GJE	REVISED -		SCALE: NONE	SHEET NO. 2 OF 64 SHEETS	STA.	TO STA.	CONTRACT NO. 63524		ILLINOIS FED. AID PROJECT	
	PLOT SCALE = 20.0000' / 1" IN.	CHECKED - JP	REVISED -									
	PLOT DATE = 2/7/2011	DATE - 02/7/2011	REVISED -									

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				EAST CRYSTAL LAKE AVENUE		
				80% FED 20% STATE	100% LOCAL	
				ROADWAY 0004	WATERMAIN 0043	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	206		206	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	232		232	
20101000	TEMPORARY FENCE	FOOT	200		200	
20200100	EARTH EXCAVATION	CU YD	650		650	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	430		430	
20800150	TRENCH BACKFILL	CU YD	1,217	188		1,029
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,907	1,907		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	130	130		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	24	24		
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	24	24		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	24	24		
* 25100630	EROSION CONTROL BLANKET	SQ YD	1,907	1,907		
* 25200110	SODDING, SALT TOLERANT	SQ YD	1,907	1,907		
* 25200200	SUPPLEMENTAL WATERING	UNIT	92	92		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	394	394		
28000305	TEMPORARY DITCH CHECKS	FOOT	108	108		
28000400	PERIMETER EROSION BARRIER	FOOT	2,065	2,065		
28000510	INLET FILTERS	EACH	32	32		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	445	445		
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	1,375	1,375		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6	6		
40600300	AGGREGATE (PRIME COAT)	TON	30	30		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	210	210		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	261	261		
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	30	6		24
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	600	600		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	70	70		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	400	400		
42001300	PROTECTIVE COAT	SQ YD	2,700	2,617		83
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	13,230	12,765		465
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	270	270		
42400800	DETECTABLE WARNINGS	SQ FT	96	96		

* SPECIALTY ITEMS

FILE NAME =	USER NAME = gellvanger	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
F:\789-006 East Crystal Lake Ave SEGMENT	I:\CADD_Sheets\0163524-sht-500.dgn	DRAWN - GJE	REVISED -			116	06-00104-01-WR	McHENRY	64	3	
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -			CONTRACT NO. 63524					
	PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -			SCALE: NONE	SHEET NO. 3 OF 64 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				EAST CRYSTAL LAKE AVENUE	
				80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	WATERMAIN 0043
44000100	PAVEMENT REMOVAL	SQ YD	725	725	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	990	990	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	72		72
44000600	SIDEWALK REMOVAL	SQ FT	5,550	5,100	450
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	120	51	69
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	3,625	3,625	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	322	322	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	202	202	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	252	252	
55100400	STORM SEWER REMOVAL 10"	FOOT	290	290	
55100500	STORM SEWER REMOVAL 12"	FOOT	82	82	
* 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	68		68
* 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	4		4
* 56103200	DUCTILE IRON WATER MAIN 10"	FOOT	1,327		1,327
* 56108800	TAPPING VALVES AND SLEEVES 6"	EACH	1		1
* 56108900	TAPPING VALVES AND SLEEVES 8"	EACH	1		1
* 56109000	TAPPING VALVES AND SLEEVES 10"	EACH	1		1
* 56200300	WATER SERVICE LINE 1"	FOOT	778		778
* 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1		1
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	5		5
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2	
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	9	9	
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1	
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	7	7	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	4	4	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5	
60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1	
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	7	7	
* 60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5		5
* 60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2		2

* SPECIALTY ITEMS

FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwanger	DESIGNED - GJE	REVISED - GJE 3/9/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1\CADD_Sheets\DI63524-sht-500.dgn	DRAWN - GJE	REVISED -	116					06-00104-01-WR	MCHENRY	64	4	
PLOT SCALE = 20,0000' / IN.	CHECKED - JP	REVISED -	SCALE: NONE			SHEET NO. 4 OF 64 SHEETS		STA. TO STA.		CONTRACT NO. 63524		
PLOT DATE = 3/9/2011	DATE - 02/7/2011	REVISED -	ILLINOIS FED. AID PROJECT									

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				EAST CRYSTAL LAKE AVENUE		
				80% FED 20% STATE	100% LOCAL	
				ROADWAY 0004	WATERMAIN 0043	
60500050	REMOVING CATCH BASINS	EACH	8		8	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	314		314	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2,950		2,850	100
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	75		75	
60618320	CONCRETE MEDIAN SURFACE, 6 INCH	SQ FT	1,554		1,554	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5		5	
67100100	MOBILIZATION	L SUM	1		1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	5		5	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	625		625	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	370		370	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8,906		8,906	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	422		422	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	400		400	
70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	250		250	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	5,000		5,000	
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	190		190	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4,300		4,300	
72000100	SIGN PANEL - TYPE 1	SQ FT	50		50	
72900100	METAL POST - TYPE A	FOOT	56		56	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	320		320	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,700		3,700	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	300		300	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	55		55	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	110		110	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	52		52	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,650		1,650	
* A2000616	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	4		4	
* A2001720	TREE, ACER SACCHARUM (SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2		2	
* A2002218	TREE, ALNUS GLUTINOSA (BLACK ALDER), 2" CALIPER, BALLED AND BURLAPPED	EACH	4		4	
* A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	4		4	
* A2004616	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2" CALIPER, BALLED AND BURLAPPED	EACH	4		4	
* A2006416	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1	

* SPECIALTY ITEMS

FILE NAME =	USER NAME = gellwanger	DESIGNED - GJE	REVISED - GJE 3/9/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\1789-006 East Crystal Lake Ave SEGMEN	I:\CADD_Sheets\DI63524-sht-S00.dgn	DRAWN - GJE	REVISED -					116	06-00104-01-WR	McHENRY	64	5
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -		SCALE: NONE	SHEET NO. 5 OF 64 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/9/2011	DATE - 02/7/2011	REVISED -									

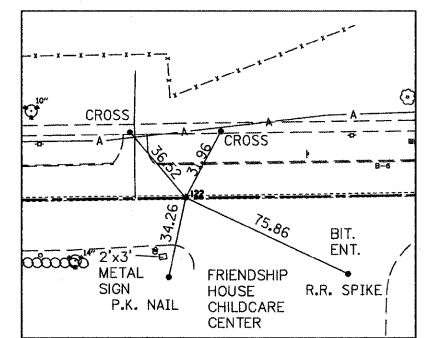
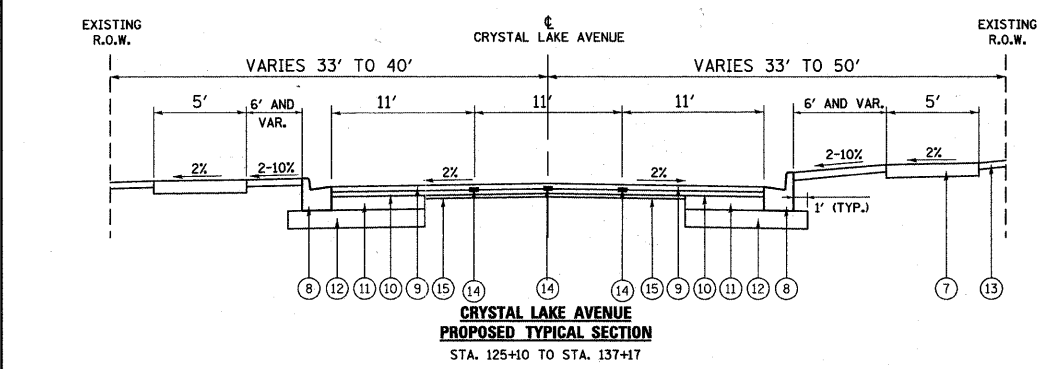
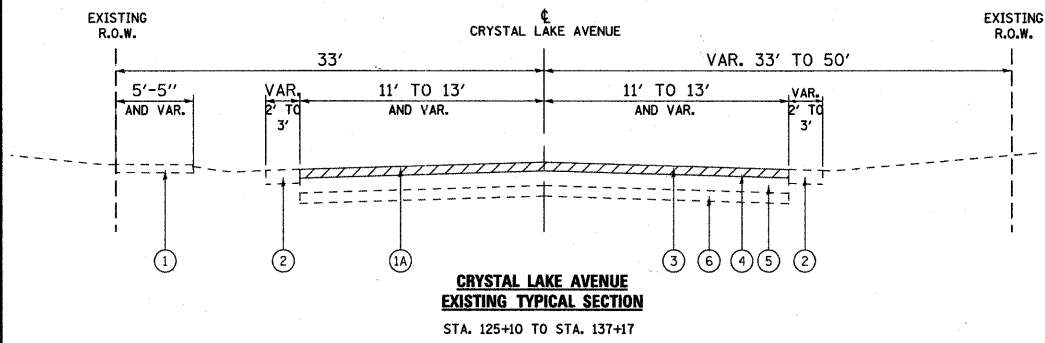
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				EAST CRYSTAL LAKE AVENUE	
				80% FED 20% STATE ROADWAY 0004	100% LOCAL WATERMAIN 0043
* A2008316	TREE, TILIA TOMENTOSA (SILVER LINDEN), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* B0001716	TREE, AMELANCHIER X GRANDIFLORA APPLE, (APPLE SERVICEBERRY), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	2	2	
* D2001572	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 6' HEIGHT, BALLED AND BURLAPPED	EACH	2	2	
* D2002288	EVERGREEN, PICEA PUNGENS GLAUCA (COLORADO BLUE SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	1	1	
* X0323353	GATE VALVES, 10"	EACH	2		2
* X5610656	WATER MAIN TO BE ABANDONED, 6"	FOOT	1,268		1,268
* X5610658	WATER MAIN TO BE ABANDONED, 8"	FOOT	20		20
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	23	23	
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2	
X4023000	TEMPORARY ACCESS (ROAD)	EACH	2	2	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	3,200	3,200	
X5539700	STORM SEWERS TO BE CLEANED	FOOT	150	150	
* X5630006	CUT AND CAP EXISTING 6" WATER MAIN	EACH	6		6
* X5630008	CUT AND CAP EXISTING 8" WATER MAIN	EACH	2		2
* X5630710	CONNECTION TO EXISTING WATER MAIN 10"	EACH	1		1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* XX006111	WATER SERVICE RECONNECTION, WITH NEW BUFFALO BOX, LONG SIDE 1" (MINIMUM)	EACH	11		11
* XX006112	WATER SERVICE RECONNECTION, WITH NEW BUFFALO BOX, SHORT SIDE 1" (MINIMUM)	EACH	16		16
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	2,200	2,200	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	604	604	
Z0062456	TEMPORARY PAVEMENT	SQ YD	90	90	
Z0076600	TRAINEES	HOUR	1,000	1,000	△

* SPECIALTY ITEMS

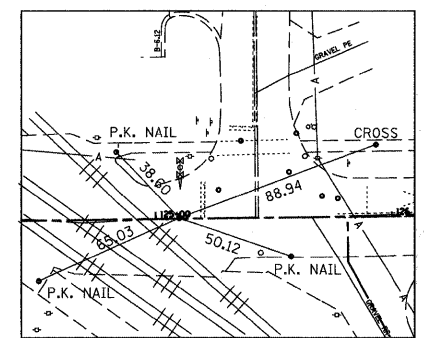
△ CONSTRUCTION TYPE - CODE 0042

Total Estimated Cost

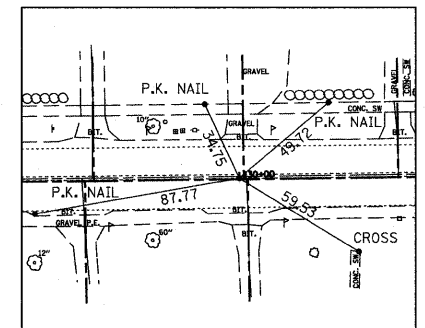
FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwanger	DESIGNED - GJE	REVISED - GJE 3/9/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	INCADD_Sheets\DI63524-sht-500.dgn	DRAWN - GJE	REVISED -					116	06-00104-01-WR	McHENRY	64	6
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -		SCALE: NONE	SHEET NO. 6 OF 64 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/9/2011	DATE - 02/1/2011	REVISED -		CONTRACT NO. 63524							



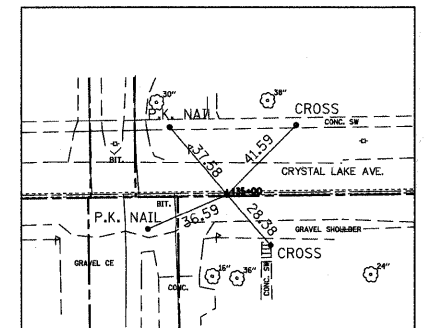
CONTROL POINT NUMBER 1
P.K. NAIL
STA. 121+99.92 0.23' LEFT
N 2,030,490.23
E 989,918.73



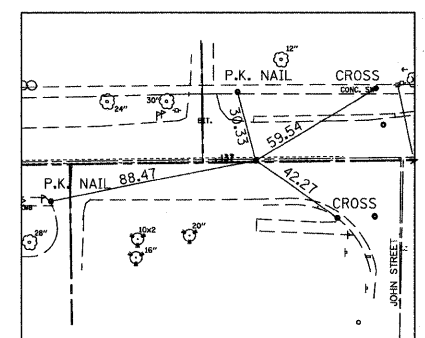
CONTROL POINT NUMBER 2
P.K. NAIL
STA. 125+09.93 0.32' LEFT
N 2,030,494.13
E 990,228.72



CONTROL POINT NUMBER 3
P.K. NAIL
STA. 129+98.12 0.41' LEFT
N 2,030,500.22
E 990,718.67



CONTROL POINT NUMBER 4
P.K. NAIL
STA. 134+99.94 0.54' LEFT
N 2,030,506.48
E 991,218.65



CONTROL POINT NUMBER 5
P.K. NAIL
STA. 137+16.93 0.56' LEFT
N 2,030,509.16
E 991,435.64

LEGEND

- ① EXISTING SIDEWALK, 4' (TYP.)
- ①A PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIES FROM 0" TO 3"
- ② EXISTING AGGREGATE 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



HMA MIXTURE REQUIREMENTS CHART

MIXTURE TYPE	AIR VOIDS	THICKNESS
ROADWAY WIDENING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm)	4% @ 70 GYR.	1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	2.25"
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0 mm)	4% @ 70 GYR.	8" (3 LIFTS)
ROADWAY RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm)	4% @ 70 GYR.	1.5"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	2.25"
HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 GYR.	0.75"
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm)	4% @ 50 GYR.	2"
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm)	4% @ 50 GYR.	CE: 8" (3 LIFTS) PE: 6" (2 LIFTS)
PATCHING		
CLASS D PATCHES, TYPE IV, IL-19mm	4% @ 70 GYR.	10" (3 LIFTS)
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm)	4% @ 70 GYR.	1.5"
TEMPORARY PAVEMENT (HMA BINDER IL-19mm)	4% @ 70 GYR.	8" (3 LIFTS)

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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 PROVISIONS AND THE MIXTURE TABLE ABOVE.

THE CONTRACTOR SHALL MILL BEFORE PATCHING.

BENCHMARKS

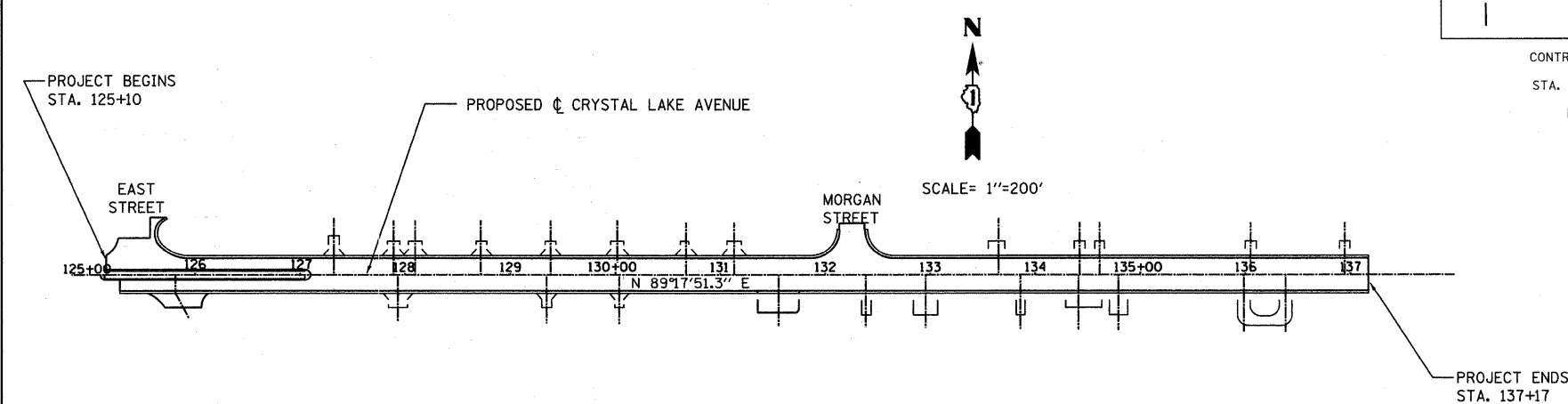
BM "CRYSTAL LAKE 2A" *6934
ROD IN CONCRETE W/LID @ NWY OF MAIN ST. & WOODSTOCK AVE.
9' FROM H.H. 9' E. OF ORANGE WITNESS POST.
N=2031301.017
E=988877.201
ELEV=928.364

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

SITE BENCHMARKS

SITE BENCHMARK #1
CROSS CUT IN SIDEWALK
AT STATION 137+68.22 30.82' LEFT
N 2,030,540.55
E 991,486.54

SITE BENCHMARK #2
CROSS CUT IN SIDEWALK
AT STATION 122+15.19 28.30' LEFT
N 2,030,518.49
E 989,933.66



TREE REMOVAL (6-15 UNITS)			
NO.	STATION	OFFSET (FT)	QUANTITY (UNIT)
1	126+69.78	29.8 RT	10.0
2	126+76.32	30.19 RT	10.0
3	126+76.32	30.19 RT	10.0
4	126+76.32	30.19 RT	10.0
5	126+76.32	30.19 RT	10.0
6	126+76.32	30.19 RT	10.0
7	126+76.32	30.19 RT	10.0
8	126+96.97	28.21 RT	12.0
9	127+00.00	30.08 RT	12.0
10	127+13.81	30.24 RT	12.0
11	127+13.81	30.24 RT	12.0
12	127+13.81	30.24 RT	12.0
13	127+34.35	30.08 RT	14.0
14	127+34.35	30.08 RT	14.0
15	127+34.35	30.08 RT	14.0
16	127+34.35	30.08 RT	14.0
17	127+47.12	29.51 RT	10.0
18	129+63.67	23 LT	10.0
TOTAL			206

TREE REMOVAL (OVER 15 UNITS)			
NO.	STATION	OFFSET (FT)	QUANTITY (UNIT)
1	126+48.33	28.73 RT	16.0
2	127+02.45	24.37 RT	42.0
3	127+22.61	28.77 RT	16.0
4	127+22.61	28.77 RT	16.0
5	129+62.90	25.49 RT	60.0
6	136+20.62	33 RT	28.0
7	136+54.29	26.69 LT	24.0
8	136+79.50	26.47 LT	30.0
TOTAL			232

STORM SEWER REMOVAL			
LOCATION STATION-STATION	10" (FT)	12" (FT)	
EAST CRYSTAL LAKE AVE			
125+10 - 128+00	85	-	
128+00 - 134+00	177	82	
134+00 - 137+17	-	-	
TOTAL		290	82

SIDEWALK REMOVAL			
NO.	LOCATION STA. - STA.	OFFSET	QUANTITY (SQ. FT)
EAST CRYSTAL LAKE AVE			
1	125+10 - 128+00	LT	999
2	125+10 - 128+00	RT	0.0
3	128+00 - 134+00	LT	2572
4	128+00 - 134+00	RT	94
5	134+00 - 137+17	LT	1350
6	134+00 - 137+17	RT	535
TOTAL			5550

NOTE: PERSONAL SIDEWALKS WILL BE REMOVED UP TO THE R.O.W. THESE QUANTITIES ARE INCLUDED IN THE ABOVE SCHEDULE.

HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT			
LOCATION STA. - STA.	OFFSET	QUANTITY (SQ. YD)	
EAST CRYSTAL LAKE AVE			
125+10	CL	55.56	
EAST STREET	LT	102	
MORGAN STREET	LT	54.5	
137+17	CL	48.9	
TOTAL			261

PAVEMENT REMOVAL		
LOCATION STA. - STA.	QUANTITY (SQ. YD)	
EAST CRYSTAL LAKE AVE		
125+10 - 128+00	157.5	
128+00 - 134+00	328.09	
134+00 - 137+17	170.6	
TEMPORARY PAVEMENT	51.3	
TOTAL		725

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH		
LOCATION STA. - STA.	QUANTITY (SQ. YD)	
EAST CRYSTAL LAKE AVE		
125+10 - 128+00	764.88	
128+00 - 134+00	1593.5	
134+00 - 137+17	868.62	
TOTAL		3200

DRIVEWAY PAVEMENT REMOVAL			
NO.	STATION	OFFSET	QUANTITY (SQ. YD)
1	125+81.35	CE RT	118.73
2	127+32.22	LT	15.79
3	127+88.96	LT	16.10
4	127+93.03	RT	52.88
5	128+0.952	LT	13.71
6	128+71.79	LT	11.83
7	129+34.65	RT	19.64
8	129+38.3	LT	15.12
9	130+1.8	LT	14.11
10	130+03.59	RT	15.70
11	131+13.39	LT	16.09
12	131+46.37	RT	110.29
13	131+13.39	LT	59.66
14	132+38.76	RT	35.12
15	132+95.8	RT	59.66
16	133+65.15	LT	40.59
17	133+85.9	RT	25.17
18	134+42.22	LT	26.92
19	134+61.24	LT	23.83
20	134+41.14	CE RT	68.59
21	134+79.11	RT	46.63
22	135+98.47 & 136+38.25	RT	125.16
23	136.05.01	LT	25.76
24	136+94.56	LT	22.53
TOTAL			990

LOCATION	EARTHWORK QUANTITIES																	
	EARTH EX. (CU YD)			ADJ. EARTH EX. (15%)			EMBANKMENT (CU YD)			BALANCE WASTE (+) OR SHORTAGE (-)			UNSUITABLE (CU YD)					
	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3
EAST CRYSTAL LAKE AVENUE	300	290	60	345	335	69	254	188	0	92.3	145.7	69	210	220	0			
TOAL		650		747.5			442			307			430					

NOTE: BASIS OF MEASUREMENT AND PAYMENT PER STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS UNLESS MARKED IN THE MARGIN WITH "SPL" WHICH IDENTIFIES THOSE ITEMS WHICH ARE RULED BY SECTIONS OF THE CONTRACT SPECIAL PROVISIONS.

PROPOSED ROADWAY PAVEMENT							
LOCATION STATION-STATION	BIT. MATERIALS (PRIME COAT) (TON)	AGGREGATE (PRIME COAT) (TON)	HMA BASE COURSE, 8" (SQ YD)	LEVELING BINDER (MACHINE METHOD), N70 (TON)	HMA BINDER COURSE, IL-19.0, N70 (TON)	AGGREGATE SUBGRADE, 12" (SQ. YD)	HMA SURFACE COURSE, MIX "D", N70 (TON)
EAST CRYSTAL LAKE AVE							
122+00 - 128+00	1.275	6.375	305.04	45.84	136.32	4673.04	90.72
128+00 - 134+00	2.64	13.2	631.69	95.5	278.32	9735.5	185.22
134+00 - 140+00	1.395	6.975	334.27	49.66	147.68	5062.46	98.28
EAST STREET	0.015	0.765	-	5.5	16	-	11
MORGAN STREET	0.015	0.753	-	5.5	16	-	11
TOTAL	6	30	1280	210	600	2200	400

DRIVEWAY REPLACEMENT						
NO.	STATION	OFFSET	AREA (SQ YD)	HMA SURFACE MIX "C", N50 (TON)	HMA BASE, 6" (SQ YD)	HMA BASE, 8" (SQ YD)
1	125+81.35 CE	RT	66.70	7.47	-	66.70
2	127+32.22	LT	19.49	2.18	19.49	-
3	127+88.96	LT	15.08	1.69	15.08	-
4	127+93.03	RT	17.64	1.98	17.64	-
5	128+0.952	LT	16.13	1.81	16.13	-
6	128+71.79	LT	13.41	1.50	13.41	-
7	129+34.65	RT	12.78	1.43	12.78	-
8	129+38.3	LT	13.51	1.51	13.51	-
9	130+1.8	LT	15.58	1.74	15.58	-
10	130+03.59	RT	11.80	1.32	11.80	-
11	131+13.39	LT	17.06	1.91	17.06	-
12	131+46.37	RT	55.75	6.24	55.75	-
13	132+38.76	RT	13.88	1.55	13.88	-
14	132+95.8	RT	35.56	3.98	35.56	-
15	133+65.15	LT	12.34	1.38	12.34	-
16	133+85.9	RT	12.97	1.45	12.97	-
17	134+42.22	LT	7.72	0.86	7.72	-
18	134+61.24	LT	7.08	0.79	7.08	-
19	134+41.14 CE	RT	26.31	2.95	-	26.31
20	134+79.11	RT	26.97	3.02	26.97	-
21	135+98.47 & 136+38.25	RT	91.57	10.26	91.57	-
22	136.05.01	LT	8.14	0.91	8.14	-
23	136+94.56	LT	7.58	0.85	7.58	-
TOTAL			525	70	445	95

TEMPORARY PAVEMENT	
STAGE	QUANTITY (SQ. YD)
EAST CRYSTAL LAKE AVE	
STAGE 1	24.44
STAGE 2	26.9
STAGE 3	32.67
TOTAL	90

CONCRETE MEDIAN	
LOCATION STA. - STA.	TYPE
EAST CRYSTAL LAKE AVE	
125+10 - 127+4.5	1554
TOTAL	1554

TEMPORARY PAVEMENT MARKING					
STAGE	LOCATION STA. - STA.	LINE SIZE			LETTERS & SYMBOLS (SQ FT)
		4" (FT)	6" (FT)	24" (FT)	
EAST CRYSTAL LAKE AVE					
STAGE 1	125+10 - 128+00	662.95	76.1	121.2	122.4
	128+00 - 134+00	1381.15	49.6	14	-
	134+00 - 137+17	18.3	-	-	-
	TOTAL	2762.3	125.7	135.2	122.4
EAST CRYSTAL LAKE AVE					
STAGE 2	125+10 - 128+00	764.88	76.1	122.4	122.4
	128+00 - 134+00	1593.5	49.6	10	-
	134+00 - 137+17	828.62	-	-	-
	TOTAL	3187	125.7	132.4	122.4
EAST CRYSTAL LAKE AVE					
STAGE 3	125+10 - 128+00	709.68	88.7	99.2	122.4
	128+00 - 134+00	1478.5	82.2	17.2	-
	134+00 - 137+17	768.82	-	-	-
	TOTAL	2957	170.9	116.4	122.4
	GRAND TOTAL	8906	422	400	370

COMBINATION CONCRETE CURB & GUTTER			
LOCATION STA. - STA.	TYPE		
	B-6.12 (FT)	B-6.24 (FT)	M-6.24 (FT)
EAST CRYSTAL LAKE AVE			
125+10 - 128+00	314	535	75
128+00 - 134+00	-	1415	-
134+00 - 137+17	-	1000	-
TOTAL	314	2950	75

PROPOSED PAVEMENT MARKING						
LOCATION STA. - STA.	THERMOPLASTIC				LETTERS & SYMBOLS (SQ FT)	RAISED REFLEC. MARKERS (EACH)
	MARKING LINE					
	4" (FT)	6" (FT)	12" (FT)	24" (FT)		
EAST CRYSTAL LAKE AVE						
125+10 - 128+00	750	88.9	6	92.7	122.2	4
128+00 - 134+00	1620	89.4	-	16.5	124.8	28
134+00 - 137+17	1309.27	115	44.6	-	67.6	20
TOTAL	3700	300	55	110	320	52

PAVEMENT MARKING TAPE, TYPE III				
STAGE	LOCATION STA. - STA.	LINE SIZE		
		4" (FT)	24" (FT)	LETTERS & SYMBOLS (SQ FT)
EAST CRYSTAL LAKE AVE				
STAGE 1	125+10 - 128+00	426.28	28	61.2
	128+00 - 134+00	-	-	-
	134+00 - 137+17	789.08	-	-
	TOTAL	1215.36	28	61.2
EAST CRYSTAL LAKE AVE				
STAGE 2	125+10 - 128+00	445.57	28	61.2
	128+00 - 134+00	-	-	-
	134+00 - 137+17	363.84	-	-
	TOTAL	809.41	28	61.2
EAST CRYSTAL LAKE AVE				
STAGE 3	125+10 - 128+00	709.68	99.2	122.4
	128+00 - 134+00	1478.5	17.2	-
	134+00 - 137+17	768.82	-	-
	TOTAL	2957	116.4	122.4
	GRAND TOTAL	5000	190	250

5" PCC SIDEWALK 5' WIDE			
NO.	LOCATION STA. - STA.	OFFSET	QUANTITY (SQ FT)
EAST CRYSTAL LAKE AVE			
1	125+10 - 128+00	LT	1174.4
2	125+10 - 128+00	RT	970.1
3	128+00 - 134+00	LT	1070.4
4	128+00 - 134+00	RT	1825.1
	TOTAL		5040

8" PCC SIDEWALK 6' WIDE			
NO.	LOCATION STA. - STA.	OFFSET	QUANTITY (SQ FT)
EAST CRYSTAL LAKE AVE			
1	131+34 - 131+77	RT	270
	TOTAL		270

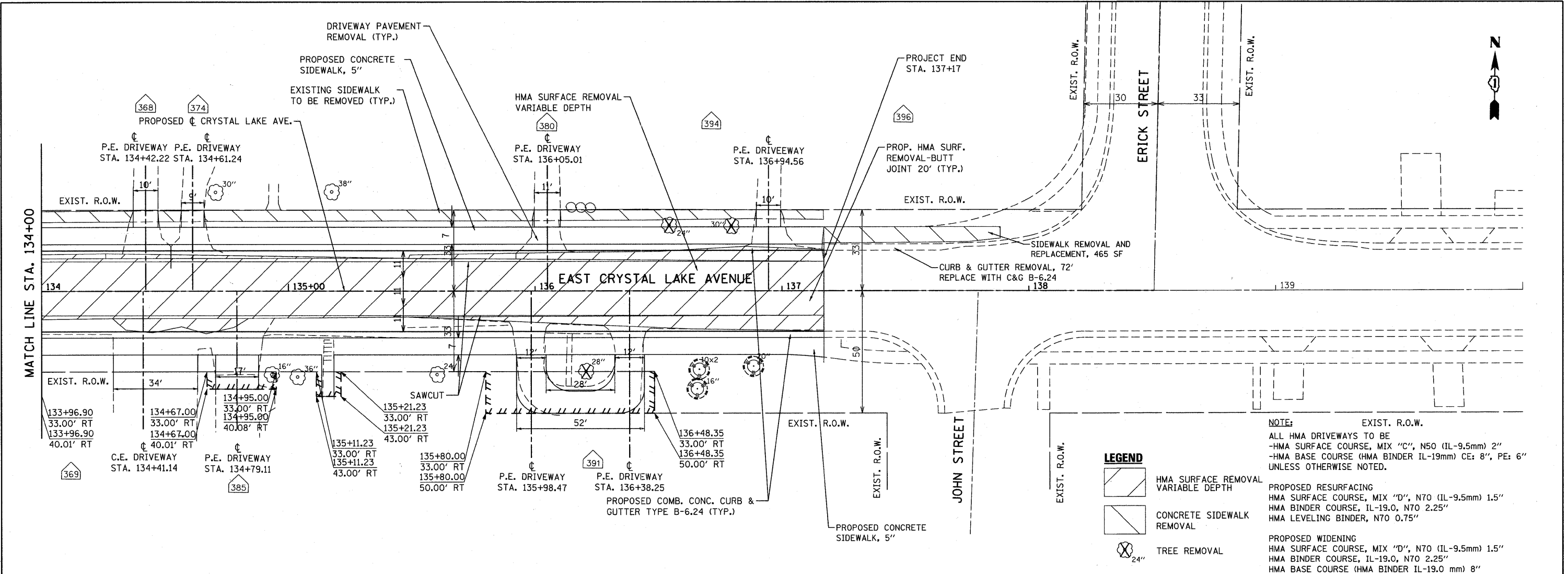
5" PCC SIDEWALK 7' WIDE			
NO.	LOCATION STA. - STA.	OFFSET	QUANTITY (SQ FT)
EAST CRYSTAL LAKE AVE			
1	128+00 - 134+00	LT	1433.3
2	128+00 - 134+00	RT	1778.2
3	134+00 - 137+17	LT	2759.2
4	134+00 - 137+17	RT	2219.3
	TOTAL		8190

NOTE: PERSONAL SIDEWALKS WILL BE REPLACED UP TO THE R.O.W. THESE QUANTITIES ARE INCLUDED IN THE ABOVE SCHEDULE.

NOTE: BASIS OF MEASUREMENT AND PAYMENT PER STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS UNLESS MARKED IN THE MARGIN WITH "SPL" WHICH IDENTIFIES THOSE ITEMS WHICH ARE RULED BY SECTIONS OF THE CONTRACT SPECIAL PROVISIONS.

DATE	
BY	
REVISION	
PLANNED	
DESIGNED	
CHECKED	
DATE	
BY	
REVISION	
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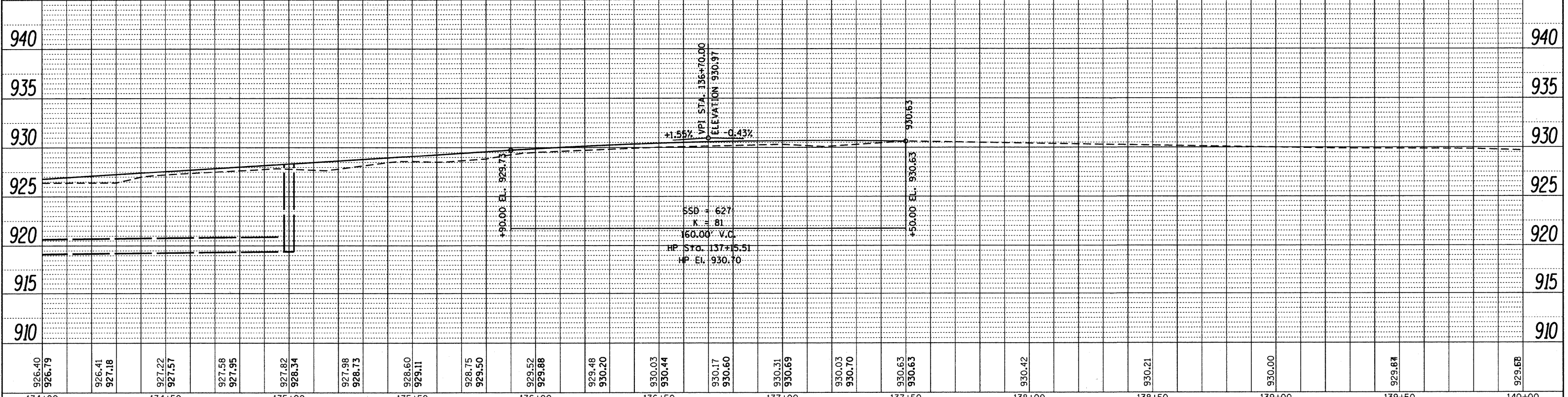
LEGEND

- HMA SURFACE REMOVAL VARIABLE DEPTH
- CONCRETE SIDEWALK REMOVAL
- TREE REMOVAL

NOTE: EXIST. R.O.W.
 ALL HMA DRIVEWAYS TO BE
 -HMA SURFACE COURSE, MIX "C", N50 (IL-9.5mm) 2"
 -HMA BASE COURSE (HMA BINDER IL-19mm) CE: 8", PE: 6"
 UNLESS OTHERWISE NOTED.

PROPOSED RESURFACING
 HMA SURFACE COURSE, MIX "D", N70 (IL-9.5mm) 1.5"
 HMA BINDER COURSE, IL-19.0, N70 2.25"
 HMA LEVELING BINDER, N70 0.75"

PROPOSED WIDENING
 HMA SURFACE COURSE, MIX "D", N70 (IL-9.5mm) 1.5"
 HMA BINDER COURSE, IL-19.0, N70 2.25"
 HMA BASE COURSE (HMA BINDER IL-19.0 mm) 8"



FILE NAME =	USER NAME = gallwanger	DESIGNED - GJE	REVISED -
F:\1789-006 East Crystal Lake Ave SEGMENT	X:\CADD_Sheets\0163524-ant-plnprf3.dgn	DRAWN - GJE	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 2/7/2011	DATE - 02/7/2011	REVISED -

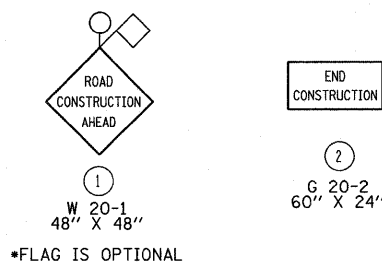
STATE OF ILLINOIS			
DEPARTMENT OF TRANSPORTATION			
EAST CRYSTAL LAKE AVENUE		PLAN AND PROFILE	
HORIZ. 1"=20'		SCALE: VERT. 1"=5'	
SHEET NO. 12 OF 64 SHEETS		STA. 134+00 TO STA. 135+50	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	McHENRY	64	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63524	

GENERAL NOTES

1. 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.
 2. 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.
 3. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS PRIOR NOTICE TO THE CITY ENGINEER (CRYSTAL LAKE) BEFORE BEGINNING CONSTRUCTION.
 4. 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.
 5. 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.

SIGN LEGEND



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. 128+40 TO 135+00.

INSTALLATION OF WATER SERVICES FOR RESIDENCES ON THE SOUTH SIDE OF CRYSTAL LAKE AVENUE.

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. 125+10 TO STA. 137+17. 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.

INSTALLATION OF NEW WATER MAIN FROM STA. 125+10 TO 137+17 UNDER THE SIDEWALK ON THE NORTH SIDE OF CRYSTAL LAKE AVENUE

INSTALLATION OF WATER SERVICES FOR RESIDENCES ON THE NORTH SIDE OF THE STREET.

TIE IN THE WATER SERVICES FROM STAGE 1 INTO THE NEWLY INSTALLED WATER MAIN.

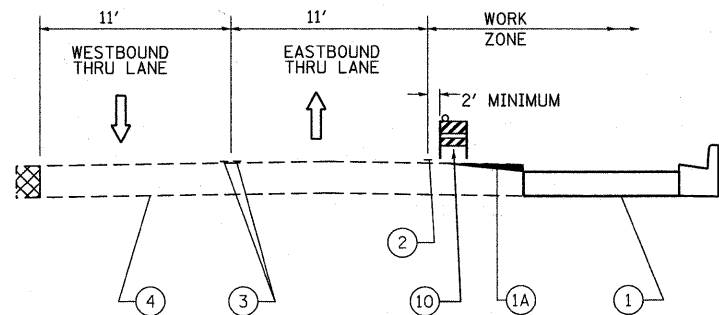
STAGE 3

INSTALLATION OF NEW CONCRETE MEDIAN FROM STA. 125+10 TO 127+10 PRIOR TO NEW ROADWAY PAVEMENT INSTALLATION.

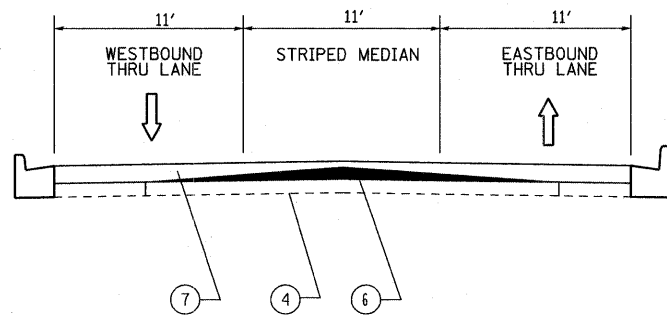
THE EXISTING PAVEMENT WILL HAVE VARIABLE DEPTH MILLED OFF THE SURFACE TO MATCH THE SURFACE OF THE BASE COURSE WIDENING CONSTRUCTED IN STAGES 1 AND 2. THE PAVEMENT MILLING WILL BE PERFORMED AT THE START OF STAGE 3 TO MINIMIZE THE TIME THAT THE MILLED SURFACE IS EXPOSED TO TRAFFIC.

ONCE THE SURFACE HAS BEEN MILLED, THE LEVELING BINDER, BINDER COURSE AND SURFACE COURSE WILL BE CONSTRUCTED.

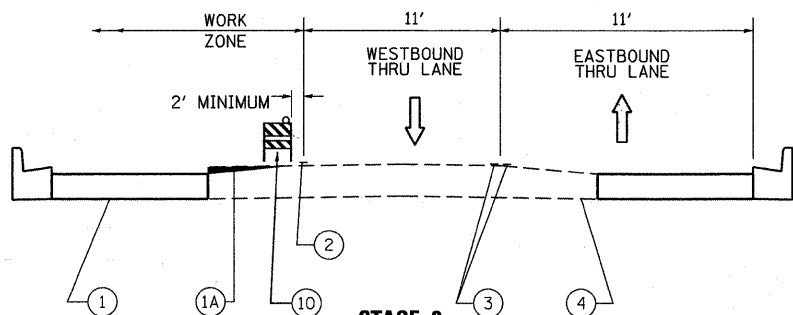
THE PROPOSED THERMOPLASTIC PAVEMENT MARKING, AND RAISED REFLECTIVE PAVEMENT MARKERS WILL BE INSTALLED AFTER PAVING HAS BEEN COMPLETED.



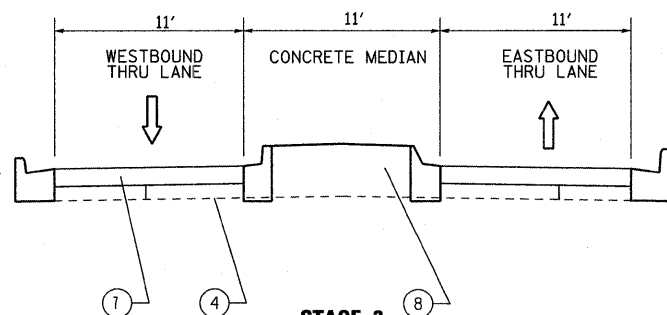
STAGE 1
EAST CRYSTAL LAKE AVENUE
STA. 125+10 TO 137+17



STAGE 3
EAST CRYSTAL LAKE AVENUE
STA. 127+10 TO 137+17



STAGE 2
EAST CRYSTAL LAKE AVENUE
STA. 125+10 TO 137+17

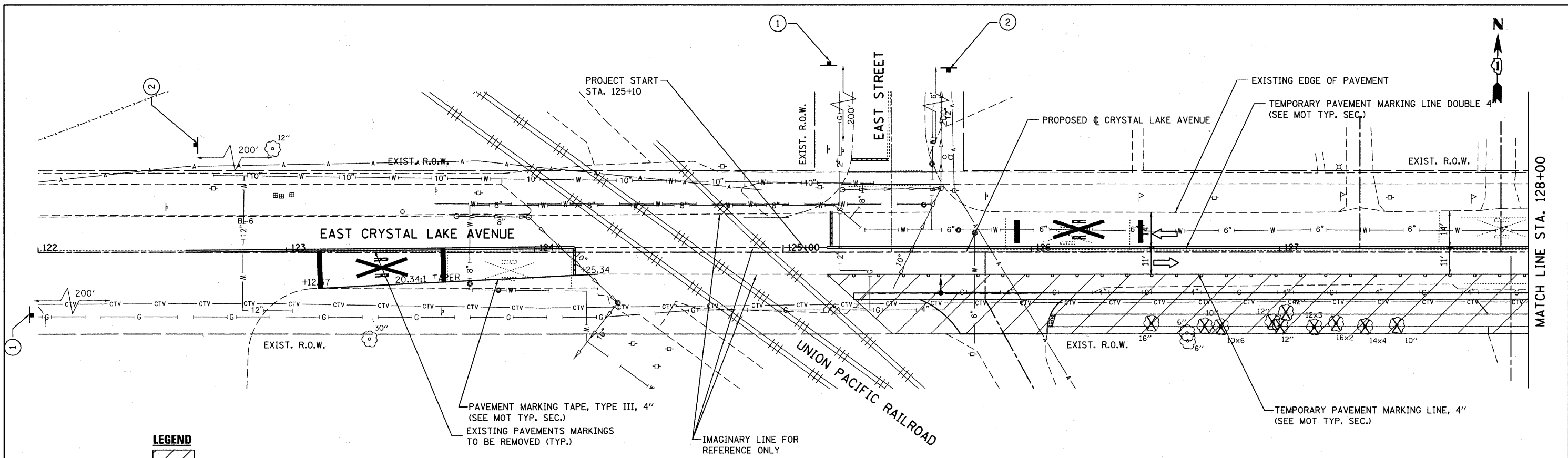





STAGE 3
EAST CRYSTAL LAKE AVENUE
STA. 125+10 TO 127+10

LEGEND

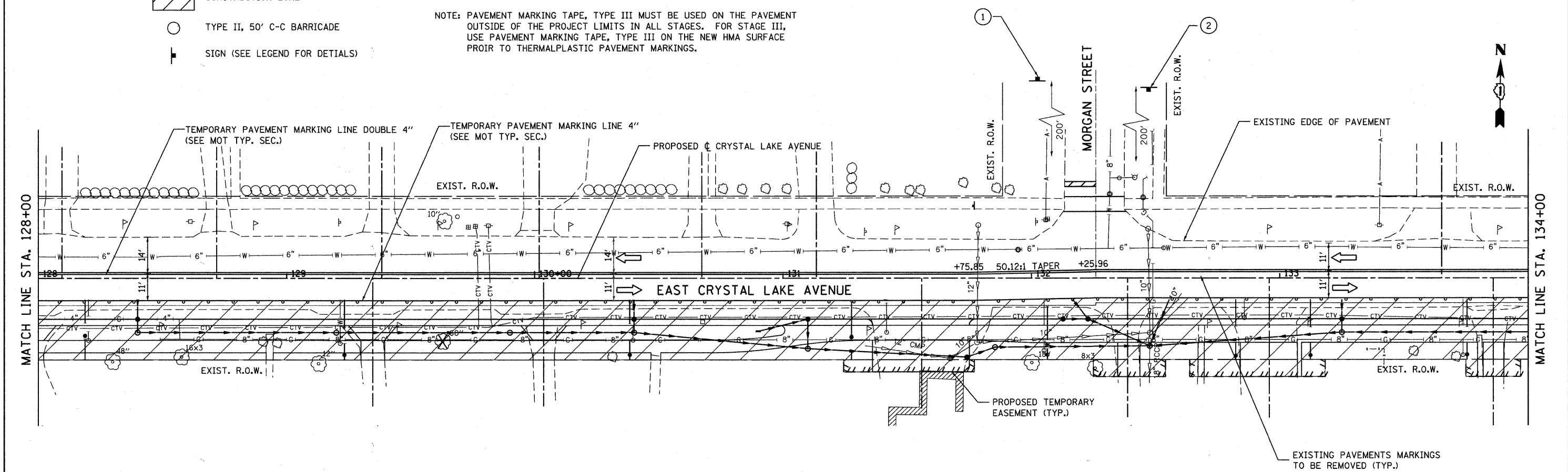
- ① PROPOSED HMA PAVEMENT (WIDENING)
- ①A MILLING, 0 TO 3" AS NEEDED (2% CROSS SLOPE)
- ② TEMPORARY PAVEMENT MARKING LINE, 4", WHITE
- ③ TEMPORARY PAVEMENT MARKING LINE, 4", YELLOW (2 @ 11" CTC)
- ④ EXISTING PAVEMENT
- ⑤ TYPE II BARRICADE (AT 50' CTC)
- ⑥ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑦ PROPOSED LEVELING BINDER, BINDER COURSE AND SURFACE COURSE TO BE CONSTRUCTED USING DAY TIME LANE CLOSURE OPERATIONS
- ⑧ PROPOSED PCC MEDIAN

FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellvanger	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE			F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 13	
	1:\CADD_Sheets\0163524-sht-staging-notes.dwg	DRAWN - GJE	REVISED -		TRAFFIC CONTROL, GENERAL NOTES, SIGNING LEGEND, SEQUENCE OF OPERATION						CONTRACT NO. 63524		
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -		SCALE: NONE	SHEET NO. 13 OF 64 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
	PLOT DATE = 2/7/2011	DATE - 02/7/2011	REVISED -										

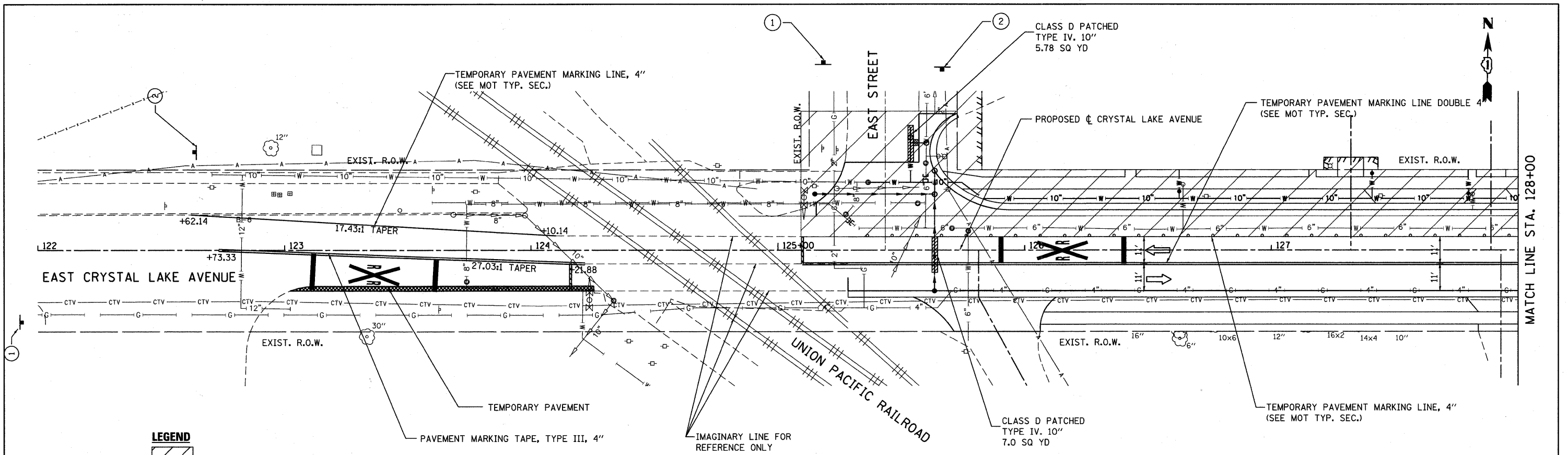


- LEGEND**
-  CONSTRUCTION ZONE
 -  TYPE II, 50' C-C BARRICADE
 -  SIGN (SEE LEGEND FOR DETAILS)




NOTE: PAVEMENT MARKING TAPE, TYPE III MUST BE USED ON THE PAVEMENT OUTSIDE OF THE PROJECT LIMITS IN ALL STAGES. FOR STAGE III, USE PAVEMENT MARKING TAPE, TYPE III ON THE NEW HMA SURFACE PRIOR TO THERMALPLASTIC PAVEMENT MARKINGS.



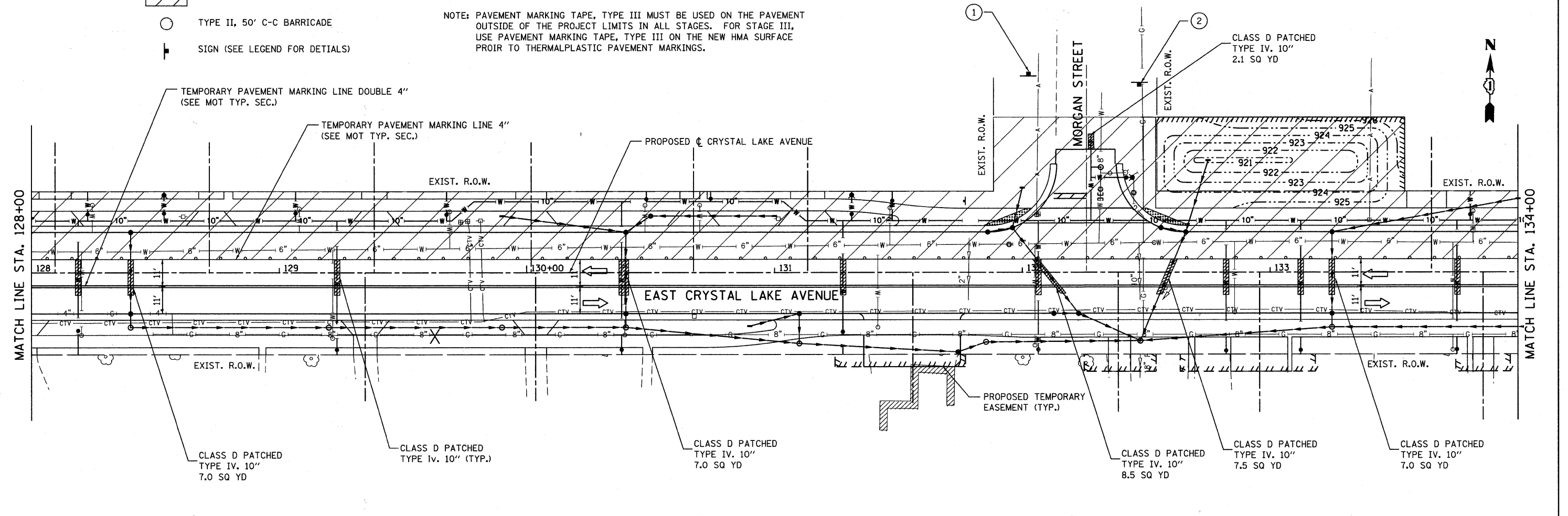
FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwanger I:\CADD_Sheets\DI63524-shr-staging\1a.dgn	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 1	F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 14			
	PLOT SCALE = 20,0000' / IN.	DRAWN - GJE	REVISED -			SCALE: 1"=20'	SHEET NO. 14 OF 64 SHEETS	STA. 125+10	TO STA. 134+00	CONTRACT NO. 63524			
	PLOT DATE = 2/17/2011	CHECKED - JP	REVISED -			ILLINOIS FED. AID PROJECT							
		DATE - 02/7/2011	REVISED -										



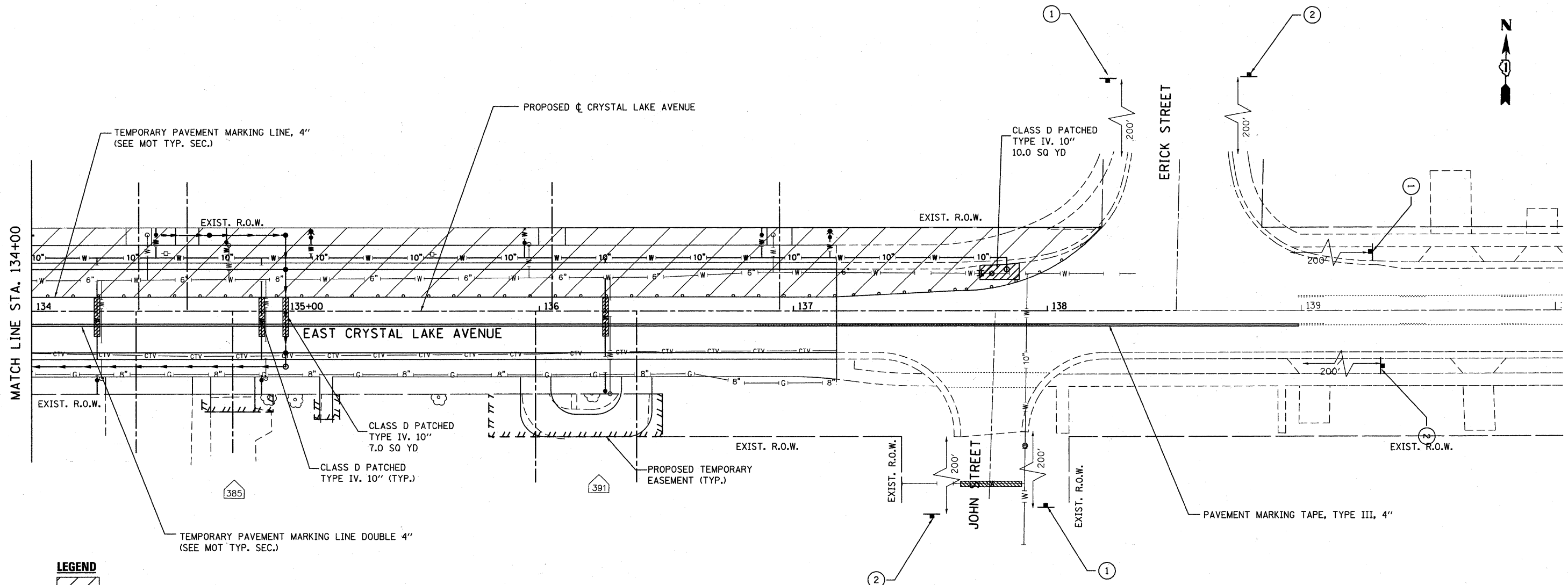
LEGEND

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




NOTE: PAVEMENT MARKING TAPE, TYPE III MUST BE USED ON THE PAVEMENT OUTSIDE OF THE PROJECT LIMITS IN ALL STAGES. FOR STAGE III, USE PAVEMENT MARKING TAPE, TYPE III ON THE NEW HMA SURFACE PRIOR TO THERMALPLASTIC PAVEMENT MARKINGS.



FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwanger INCADD_Sheets\0163524-sht-staging2a.dgn	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 2	F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 16		
PLOT SCALE = 20.0000' / IN.	CHECKED - JP	DATE - 02/7/2011	REVISED -			SCALE: 1"=20'	SHEET NO. 16 OF 64 SHEETS	STA. 125+10	TO STA. 134+00	CONTRACT NO. 63524		
PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT						

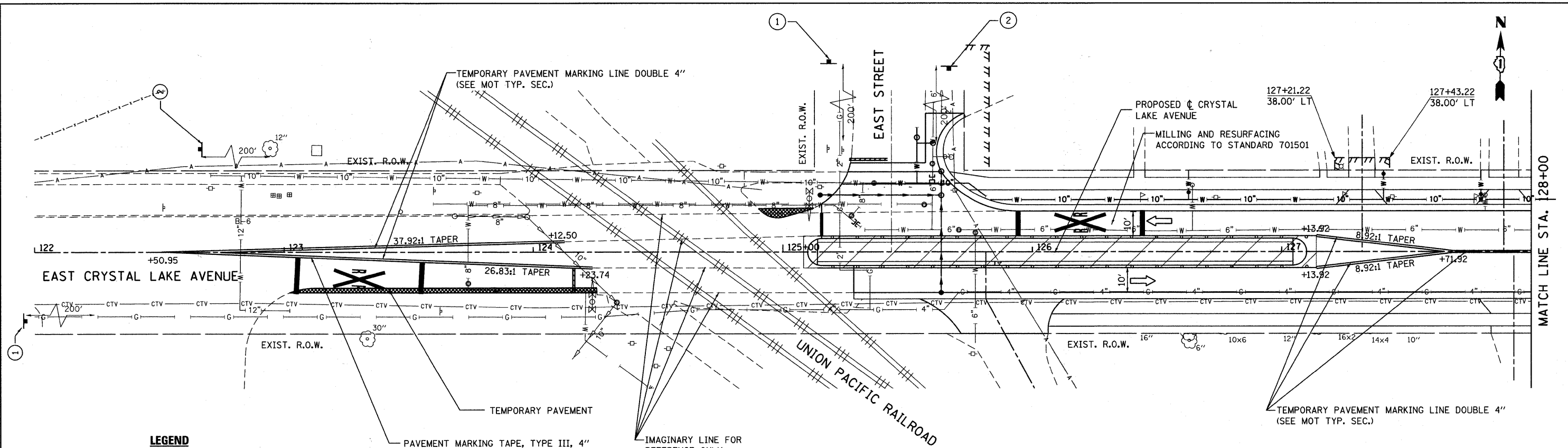


LEGEND

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

NOTE: PAVEMENT MARKING TAPE, TYPE III MUST BE USED ON THE PAVEMENT OUTSIDE OF THE PROJECT LIMITS IN ALL STAGES. FOR STAGE III, USE PAVEMENT MARKING TAPE, TYPE III ON THE NEW HMA SURFACE PRIOR TO THERMALPLASTIC PAVEMENT MARKINGS.

FILE NAME = F:\789-806 East Crystal Lake Ave SEGMENT	USER NAME = gellwenger 1:\CADD_Sheets\0163524-sht-staging2b.dgn	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 2		F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 17	
	PLOT SCALE = 28,0000' / IN.	DRAWN - GJE	REVISED -		SCALE: 1"=20'	SHEET NO. 17 OF 64 SHEETS	STA. 125+10	TO STA. 134+00	CONTRACT NO. 63524			
	PLOT DATE = 2/7/2011	CHECKED - JP	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 02/7/2011	REVISED -									



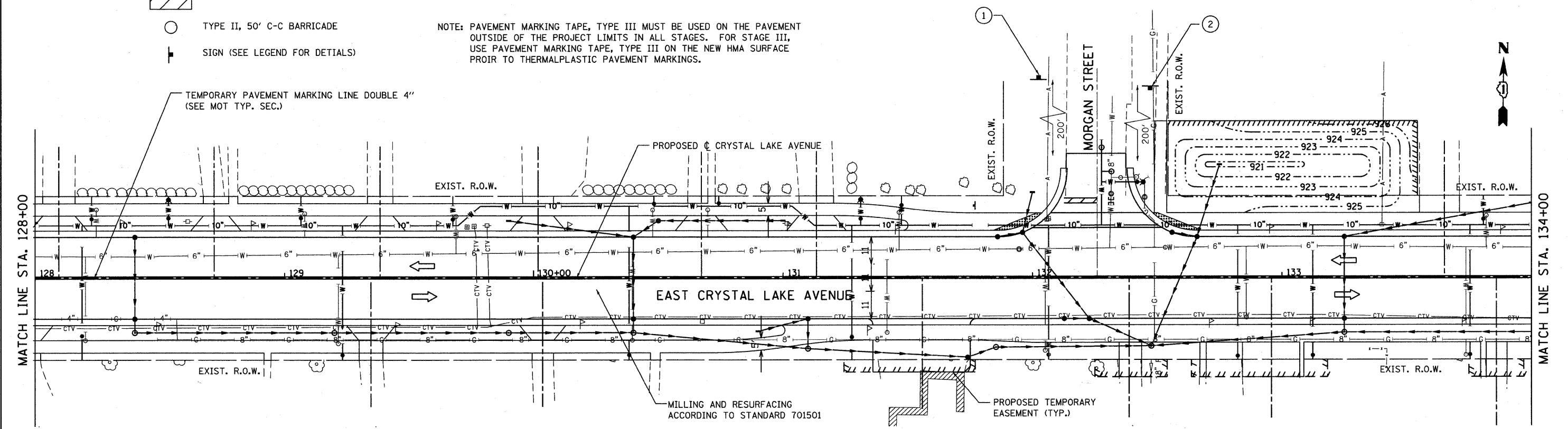
LEGEND

CONSTRUCTION ZONE

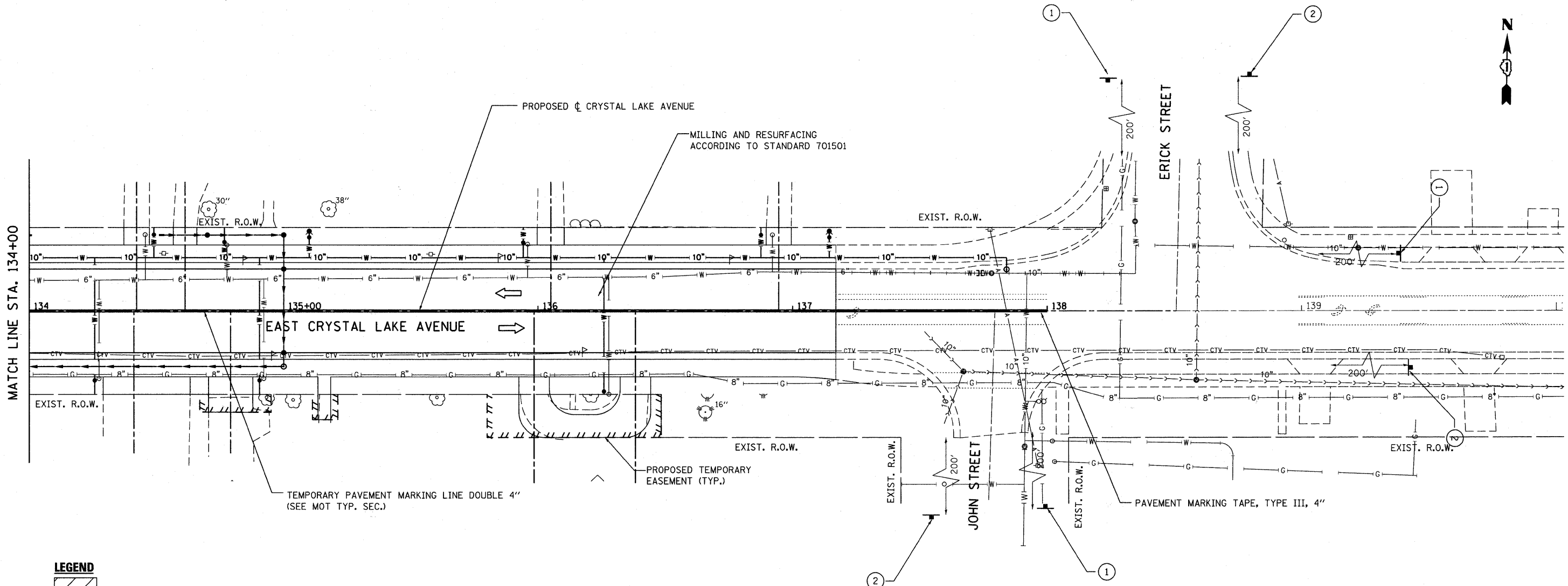
TYPE II, 50' C-C BARRICADE

SIGN (SEE LEGEND FOR DETAILS)




NOTE: PAVEMENT MARKING TAPE, TYPE III MUST BE USED ON THE PAVEMENT OUTSIDE OF THE PROJECT LIMITS IN ALL STAGES. FOR STAGE III, USE PAVEMENT MARKING TAPE, TYPE III ON THE NEW HMA SURFACE PRIOR TO THERMALPLASTIC PAVEMENT MARKINGS.



FILE NAME =	USER NAME = gollwenger	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 3			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\789-006 East Crystal Lake Ave SEGMENT	I:\CADD_Sheets\0163524-shr-staging3e.dgn	DRAWN - GJE	REVISED -		116	06-00104-01-WR	McHENRY	64	18			
	PLOT SCALE = 20,00000' / IN.	CHECKED - JP	REVISED -		SCALE: 1"=20'			CONTRACT NO. 63524				
	PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -		SHEET NO. 18 OF 64 SHEETS			ILLINOIS FED. AID PROJECT				

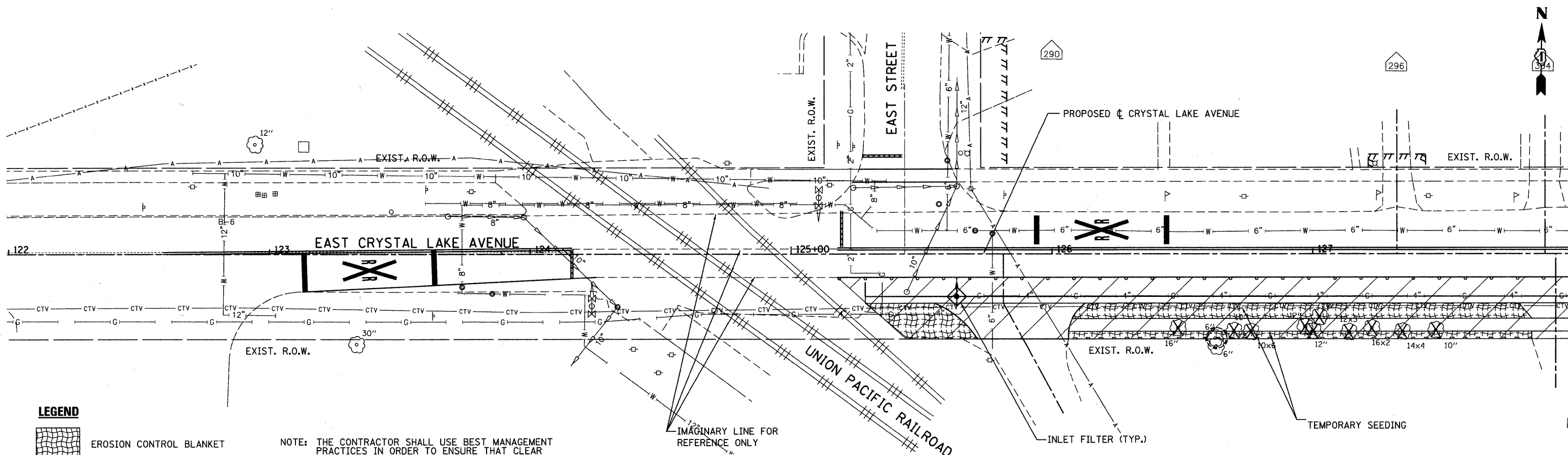


LEGEND

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






NOTE: PAVEMENT MARKING TAPE, TYPE III MUST BE USED ON THE PAVEMENT OUTSIDE OF THE PROJECT LIMITS IN ALL STAGES. FOR STAGE III, USE PAVEMENT MARKING TAPE, TYPE III ON THE NEW HMA SURFACE PRIOR TO THERMALPLASTIC PAVEMENT MARKINGS.

FILE NAME = F:\789-005 East Crystal Lake Ave SEGMENT	USER NAME = gellwanger	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 3			F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 19	
	INCADD_Sheets\0163524-sht-staging3b.dgn	DRAWN - GJE	REVISED -		SCALE: 1"=20'	SHEET NO. 19 OF 64 SHEETS	STA. 125+10 TO STA. 134+00	CONTRACT NO. 63524					
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = 2/7/2011	DATE - 02/7/2011	REVISED -										



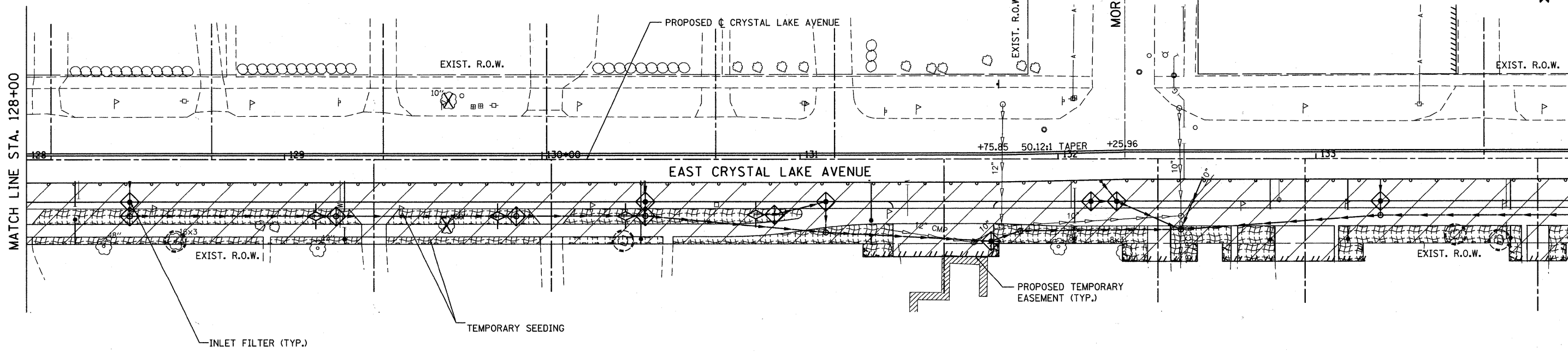
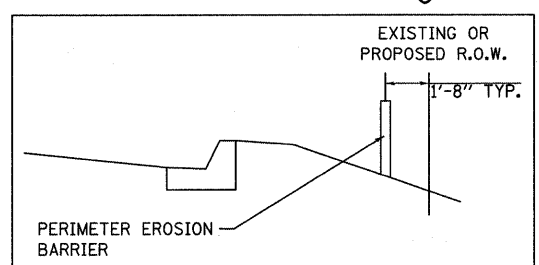
MATCH LINE STA. 128+00

LEGEND

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  INLET FILTERS
-  TEMPORARY DITCH CHECKS
-  TEMPORARY PAVEMENT

NOTE: THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN ORDER TO ENSURE THAT CLEAR WATER IS LEAVING THE PROJECT SITE.

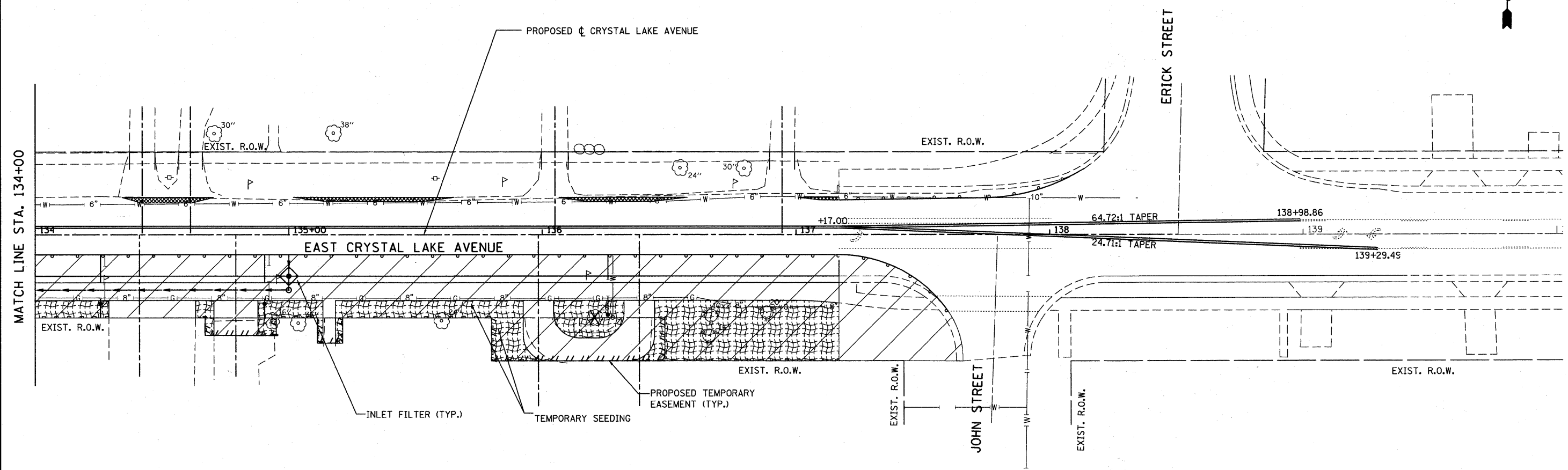
IMAGINARY LINE FOR REFERENCE ONLY








MATCH LINE STA. 128+00

MATCH LINE STA. 134+00

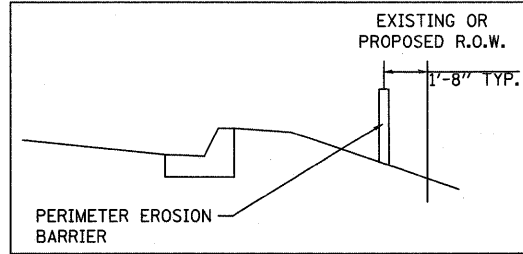
FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwanger	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE EROSION AND SEDIEMENT CONTROL DETAILS - STAGE 1		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	I:\CADD_Sheets\0163524-sht-erosion1a.dgn	DRAWN - GJE	REVISED -				116	06-00104-01-WR	McHENRY	64	20
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -				CONTRACT NO. 63524				
	PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: 1"=20'		SHEET NO. 20 OF 64 SHEETS		STA. 125+10 TO STA. 134+00			



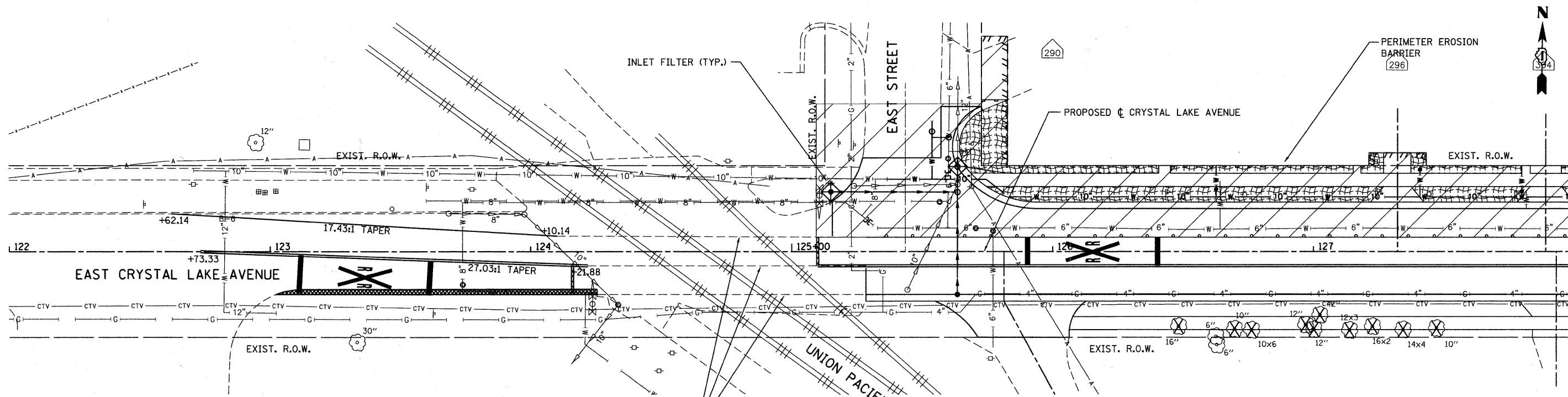
LEGEND

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  INLET FILTERS
-  TEMPORARY DITCH CHECKS
-  TEMPORARY PAVEMENT






NOTE: THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN ORDER TO ENSURE THAT CLEAR WATER IS LEAVING THE PROJECT SITE.



FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellvenger	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE EROSION AND SEDIEMENT CONTROL DETAILS - STAGE 1	F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 21		
	1:\CADD_Sheets\0163524-sht-erosionib.dgn	DRAWN - GJE	REVISED -			SCALE: 1"=20'	SHEET NO. 21 OF 64 SHEETS	STA. 125+10	TO STA. 134+00	ILLINOIS FED. AID PROJECT		
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -									
	PLOT DATE = 2/7/2011	DATE - 02/7/2011	REVISED -									

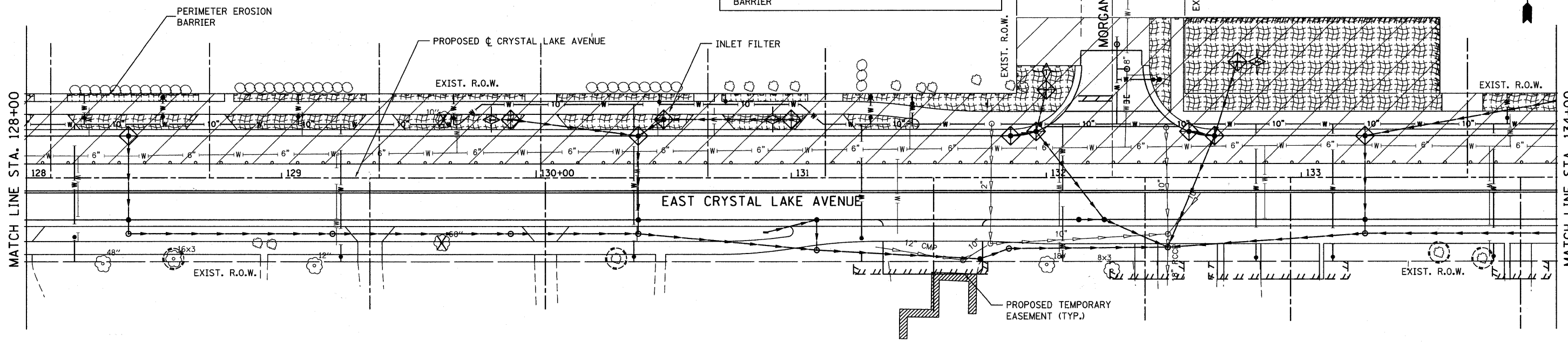
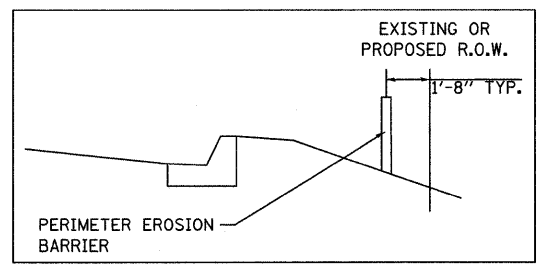


LEGEND

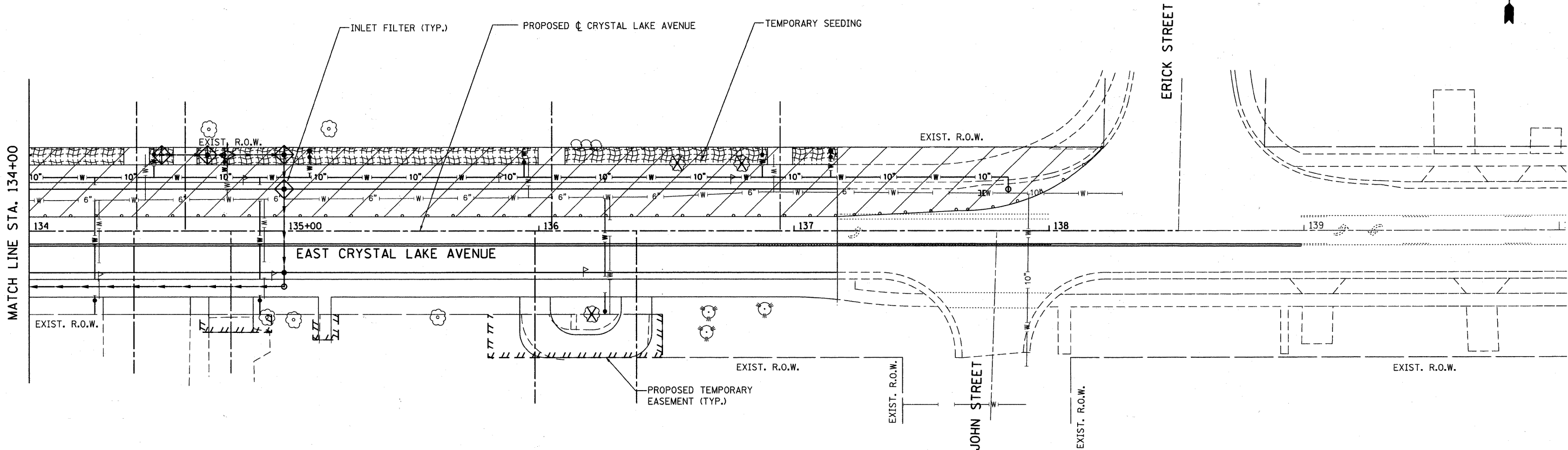
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  INLET FILTERS
-  TEMPORARY DITCH CHECKS
-  TEMPORARY PAVEMENT

NOTE: THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN ORDER TO ENSURE THAT CLEAR WATER IS LEAVING THE PROJECT SITE.






IMAGINARY LINE FOR REFERENCE ONLY



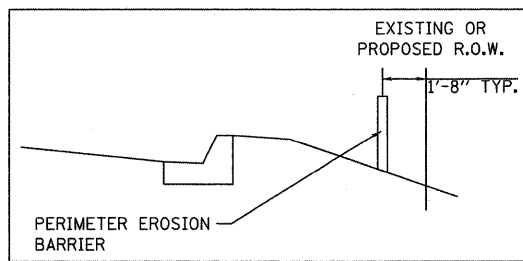
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	1\CADD_Sheets\0163524-sht-erosion2a.dgn	DRAWN - GJE	REVISED -		SCALE: 1"=20'	SHEET NO. 22 OF 64 SHEETS	STA. 125+10 TO STA. 134+00	CONTRACT NO. 63524		ILLINOIS FED. AID PROJECT	
PLOT SCALE = 20.0000' / IN.	CHECKED - JP	DATE - 02/7/2011	REVISED -								



LEGEND

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  INLET FILTERS
-  TEMPORARY DITCH CHECKS
-  TEMPORARY PAVEMENT

NOTE: THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN ORDER TO ENSURE THAT CLEAR WATER IS LEAVING THE PROJECT SITE.

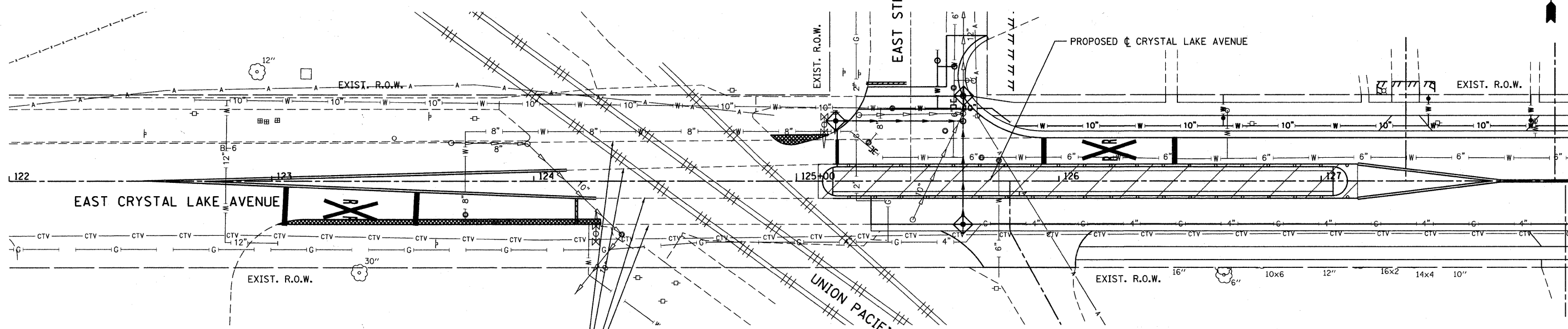


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PLOT SCALE = 20.0000' / IN.		CHECKED - JP	REVISED -
PLOT DATE = 2/7/2011		DATE - 02/7/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EAST CRYSTAL LAKE AVENUE EROSION AND SEDIMENT CONTROL DETAILS - STAGE 2			
SCALE: 1"=20'	SHEET NO. 23 OF 64 SHEETS	STA. 125+10	TO STA. 134+00

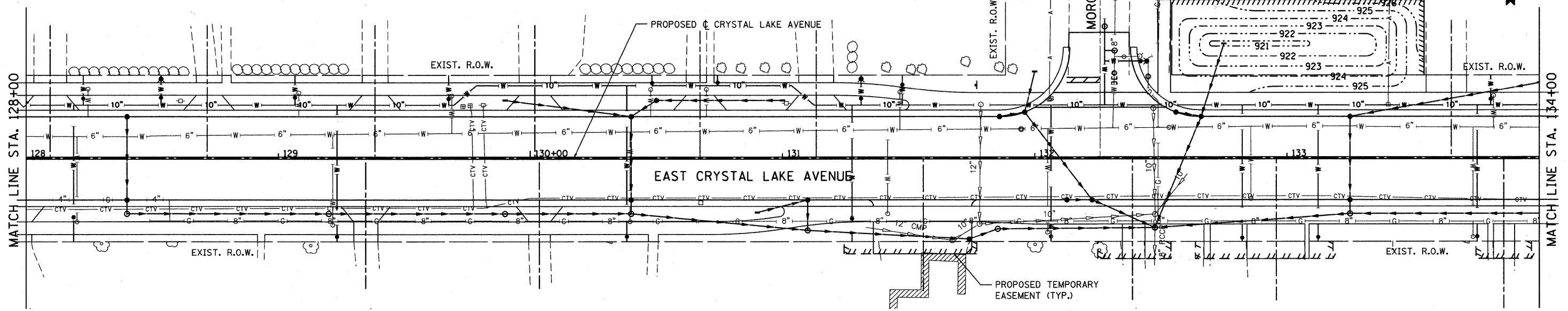
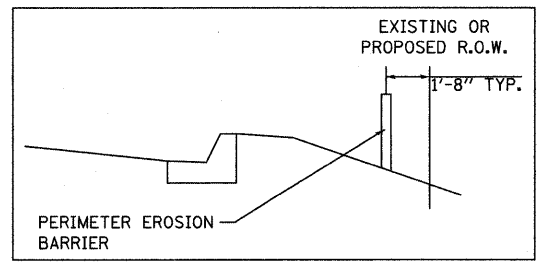
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	McHENRY	64	23
CONTRACT NO. 63524				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- EROSION CONTROL BLANKET
 - PERIMETER EROSION BARRIER
 - INLET FILTERS
 - TEMPORARY DITCH CHECKS
 - TEMPORARY PAVEMENT

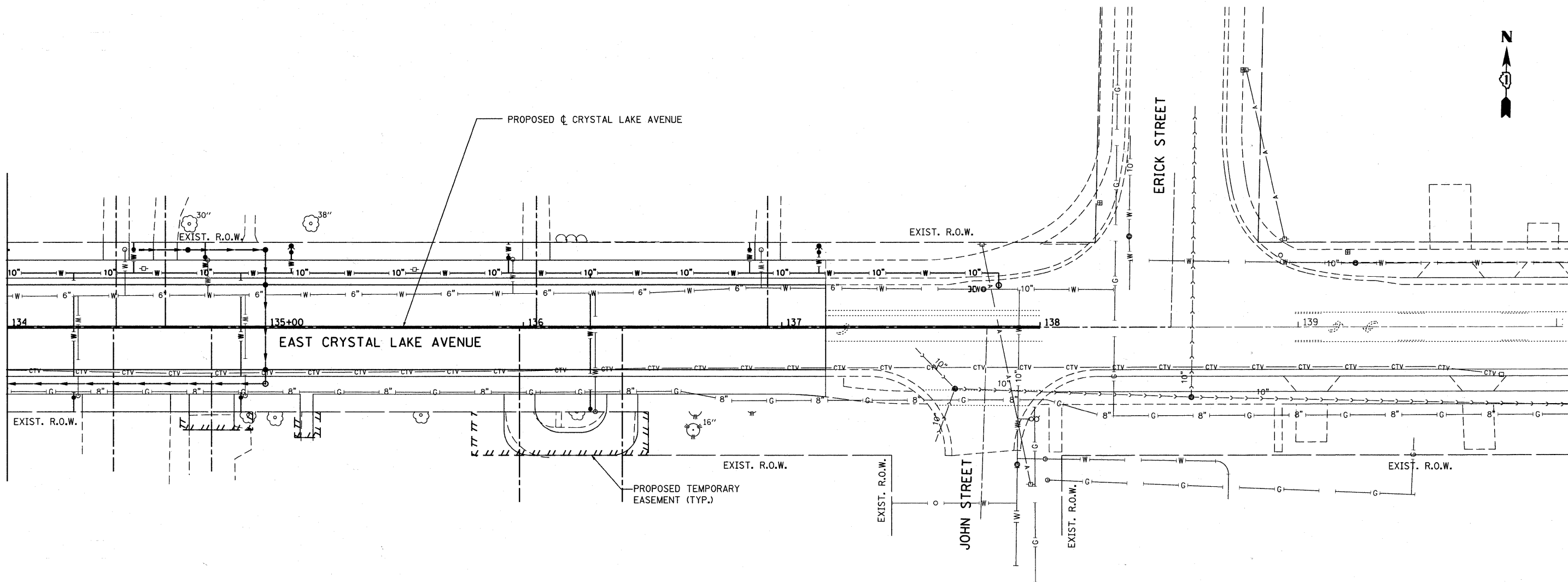
NOTE: THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN ORDER TO ENSURE THAT CLEAR WATER IS LEAVING THE PROJECT SITE.

IMAGINARY LINE FOR REFERENCE ONLY








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	INCADD_Sheets\0163524-shr-erosion3a.dgn	DRAWN - GJE	REVISED -		116	06-00104-01-WR	McHENRY	64	24			
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -		CONTRACT NO. 63524							
	PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 1"=20'		SHEET NO. 24 OF 64 SHEETS		STA. 125+10 TO STA. 134+00				

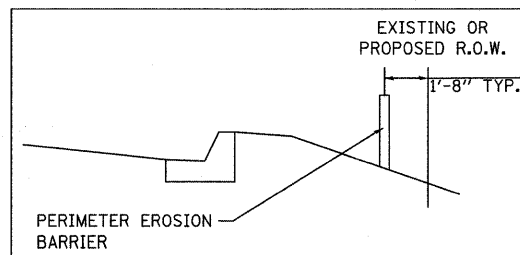
MATCH LINE STA. 134+00



LEGEND

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  INLET FILETERS
-  TEMPORARY DITCH CHECKS
-  TEMPORARY PAVEMENT

NOTE: THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN ORDER TO ENSURE THAT CLEAR WATER IS LEAVING THE PROJECT SITE.



FILE NAME =	USER NAME = gallwanger	DESIGNED - GJE	REVISED -
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	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 2/7/2011	DATE - 02/7/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

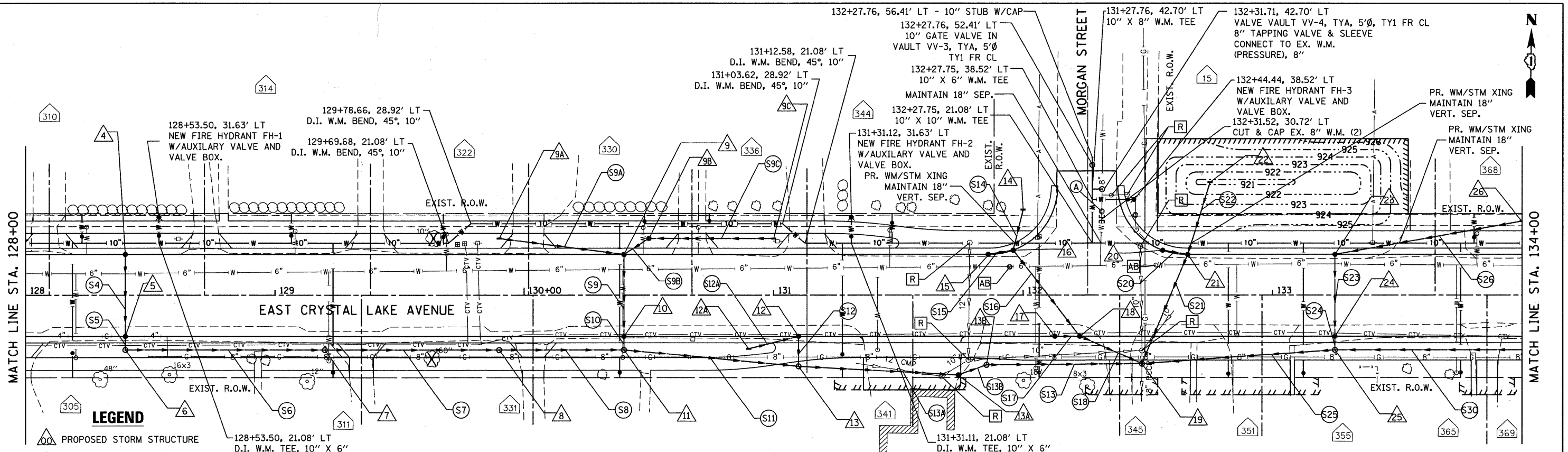
**EAST CRYSTAL LAKE AVENUE
EROSION AND SEDIMENT CONTROL DETAILS - STAGE 3**

SCALE: 1"=20' SHEET NO. 25 OF 64 SHEETS STA. 125+10 TO STA. 134+00

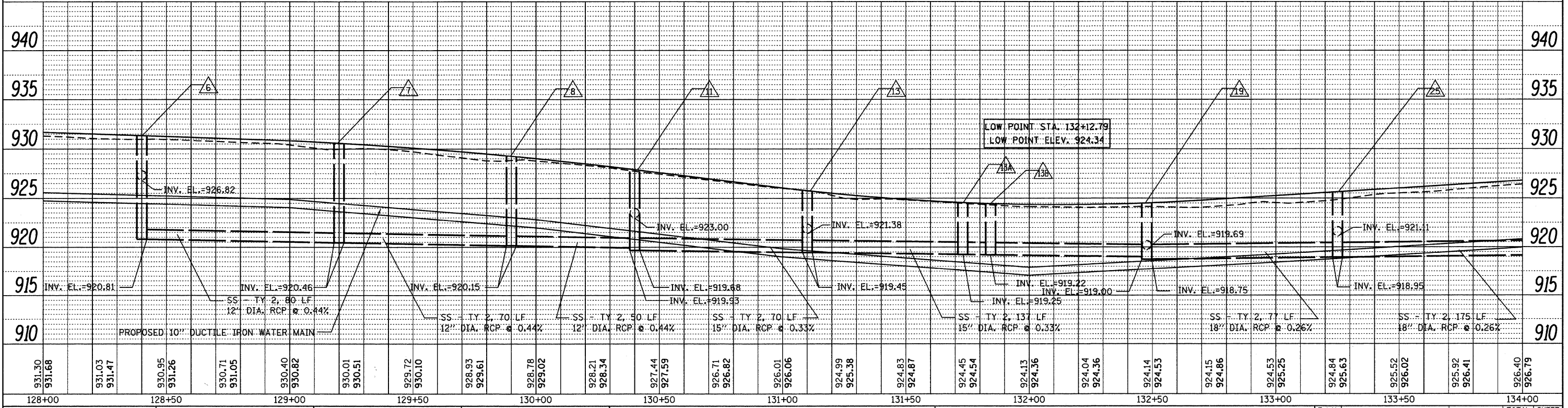
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	McHENRY	64	25
				CONTRACT NO. 63524
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- △ PROPOSED STORM STRUCTURE
 - PROPOSED STORM SEWER
 - R STRUCTURE TO BE REMOVED
 - A VALVE VAULT TO BE ADJUSTED
 - AB STRUCTURE TO BE ABANDONED
 - ADJ STRUCTURE TO BE ADJUSTED
 - C STRUCTURE TO BE CLEANED

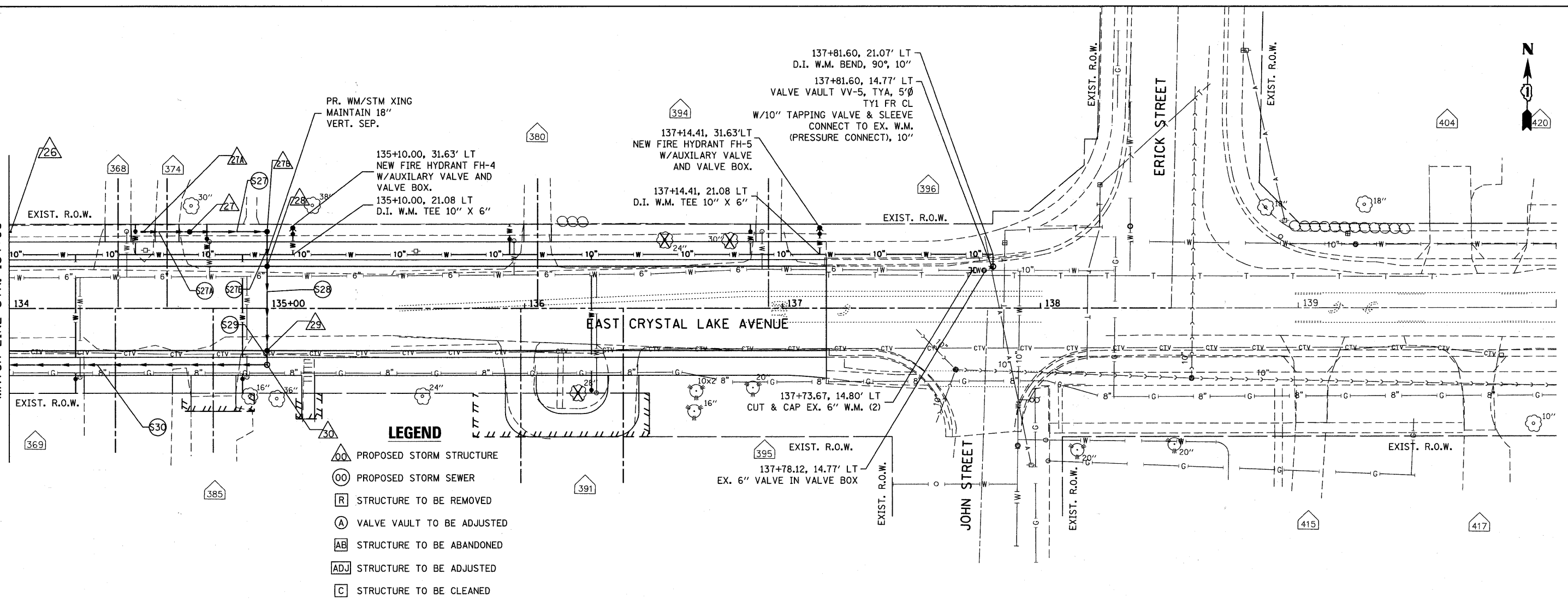


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PLOT SCALE = 20,000 / IN.	DATE = 02/7/2011	CHECKED - JP	REVISED -			HORIZ. 1"=20'	SCALE: VERT. 1"=5'	SHEET NO. 27 OF 64 SHEETS	STA. 128+00 TO STA. 134+00	CONTRACT NO. 63524		
PLOT DATE = 2/17/2011		DATE = 02/7/2011	REVISED -			ILLINOIS FED. AID PROJECT						

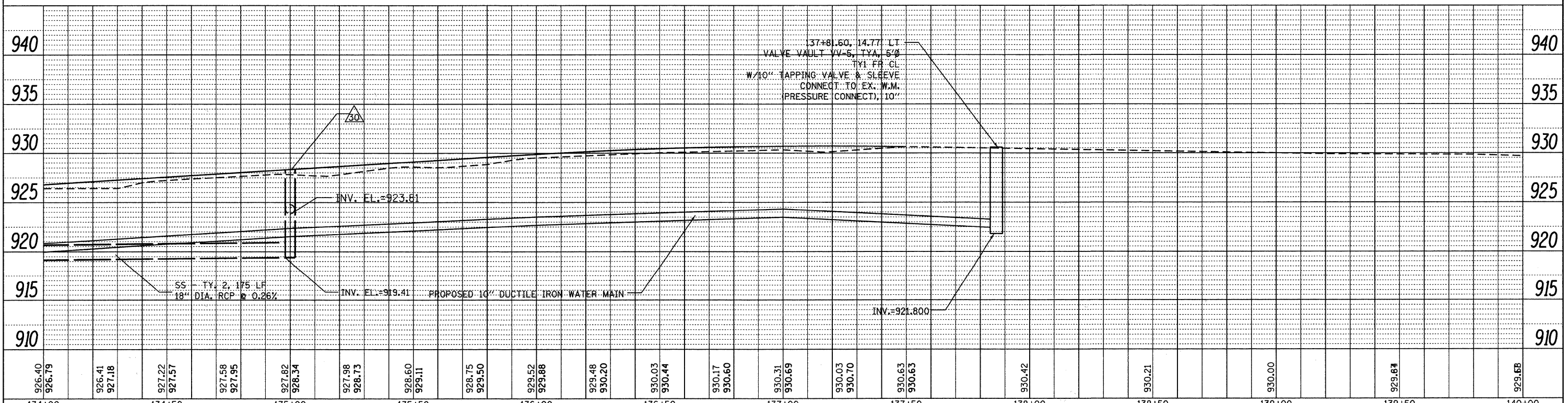
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DESCRIPTION	

MATCH LINE STA. 134+00



- LEGEND**
- △ PROPOSED STORM STRUCTURE
 - PROPOSED STORM SEWER
 - ⊠ STRUCTURE TO BE REMOVED
 - ⊙ VALVE VAULT TO BE ADJUSTED
 - ⊡ STRUCTURE TO BE ABANDONED
 - ⊞ STRUCTURE TO BE ADJUSTED
 - ⊞ STRUCTURE TO BE CLEANED



926.40	926.79	926.41	927.18	927.22	927.57	927.58	927.95	927.82	928.34	927.98	928.73	928.60	929.11	928.75	929.50	929.52	929.88	929.48	930.20	930.03	930.44	930.17	930.60	930.31	930.69	930.03	930.70	930.63	930.63	930.42	930.21	930.00	929.64	929.68		
134+00		134+50		135+00		135+50		136+00		136+50		137+00		137+50		138+00		138+50		139+00		139+50		140+00												

FILE NAME =	USER NAME = gollwanger	DESIGNED - GJE	REVISED -
F:\789-006 East Crystal Lake Ave SEGMENT	VCADD_Sheets\0163524-ahf-drain3.dgn	DRAWN - GJE	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST CRYSTAL LAKE AVENUE
DRAINAGE AND UTILITIES

HORIZ. 1"=20'
SCALE: VERT. 1"=5' SHEET NO. 28 OF 64 SHEETS STA. 134+00 TO STA. 135+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	McHENRY	64	28
CONTRACT NO. 63524				
ILLINOIS FED. AID PROJECT				



STORM SEWER STRUCTURE TABLE

STR. NO.	STATION	OFFSET	STR TYPE/SIZE			F&G	INVERT ELEV.	RIM ELEV.
			MH	CB	IN			
1	125+15.00	23.0' LT		C		8	928.74 (E)	931.35
1A	125+63.54	22.87' LT	A 4'			1 CL	928.53 (N, S, W)	931.75
2	125+63.55	32.6' LT	A 4'			24	928.48 (N, S)	931.30
3	125+63.61	16.5' RT		C		24	928.70 (N)	931.69
4	128+40.00	16.5' LT		C		24	927.00 (S)	931.01
5	128+40.00	16.5' RT		A 4'		24	926.84 (N, S)	931.01
6	128+40.00	22.0' RT	A 4'			1 OL	926.82 (N); 920.81 (E)	930.33
7	129+20.00	22.0' RT	A 4'			1 OL	920.46 (E, W)	929.89
8	129+90.00	22.0' RT	A 4'			1 OL	920.15 (E, W)	927.98
9	130+40.00	16.5' LT		C		24	923.20 (S, E); 924.89 (W)	927.55
9A	129+90.00	23.0' LT			A	8	925.14 (E)	928.14
9B	130+50.00	23.0' LT		A 4'		8	923.26 (E, W)	926.83
9C	131+00.00	23.0' LT			A	8	923.51 (W)	925.31
10	130+40.00	16.5' RT		A 4'		24	923.03 (N, S)	927.55
11	130+40.00	22.0' RT	A 4'			1 OL	923.00 (N); 919.68 (E); 919.93 (W)	927.23
12	131+10.00	16.5' RT		C		24	921.44 (S); 922.39 (W)	925.44
12A	130+90.00	21.5' RT			A	8	922.49 (E)	925.49
13	131+10.00	28.5' RT	A 4'			1 CL	921.38 (N); 919.45 (E, W)	924.03
13A	131+74.00	32.0' RT		C		1 OL	919.25 (W, NE)	922.66
13B	131+85.33	27.95' RT	A 4'			1 CL	919.22 (SW, E)	923.64
14	132+00.00	34.5' LT			A	8	920.12 (S)	922.90
15	131+86.00	16.5' LT		C		24	920.09 (E)	924.18
16	131+96.00	18.23' LT		A 4'		24	920.04 (NW, SE, W)	924.04
17	132+12.79	16.5' RT		C		24	919.87 (E)	924.03
18	132+22.79	16.5' RT		A 4'		24	919.82 (NW, SE, W)	924.04
19	132+47.69	27.5' RT		A 6'		1 CL	919.69 (NW); 918.75 (NE, S, E); 919.00 (W)	924.35
20	132+56.00	18.2' LT		C		24	919.01 (E)	924.25
21	132+66.00	16.5' LT		A 4'		24	918.96 (N, S, W)	924.43
22	132+75.00	45.55' LT			A	8	919.09 (S)	920.83
23	133+25.00	16.5' LT		A 4'		24	921.30 (S, E)	925.30
24	133+25.00	16.5' RT		A 4'		24	921.14 (N, S)	925.30
25	133+25.00	22.0' RT	A 4'			1 CL	921.11 (N); 918.95 (E, W)	926.13
26	134+00.00	30.0' LT			A	8	921.68 (W)	925.78
27	134+70.00	30.0' LT		A 4'		8	924.31 (W)	927.05
27A	134+52.00	30.0' LT			A	8	924.22 (W, E)	927.00
27B	135+00.00	30.0' LT		A 4'		8	924.07 (W, S)	927.20
28	135+00.00	16.5' LT		A 4'		24	924.00 (N, S)	928.01
29	135+00.00	16.5' RT		A 4'		24	923.84 (N, S)	928.01
30	135+00.00	22.0' RT	A 4'			1 CL	919.41 (W); 923.81 (N)	928.45

CITY WATER MAIN VALVE VAULT SCHEDULE

STR. NO.	STATION	OFFSET	STR SIZE Ø, FT.	GATE VALVE SIZE, IN.	TAPPING VALVE & SLEEVE SIZE, IN.	RIM ELEV.
VV-1	125+53.76	46.20' LT	5	10	-	931.15
VV-2	125+60.21	43.92' LT	5	-	6	931.29
VV-3	132+27.76	52.41' LT	5	10	-	923.55
VV-4	132+31.71	42.70' LT	5	-	8	924.12
VV-5	137+81.60	14.77' LT	5	-	10	930.36

CITY FIRE HYDRANT SCHEDULE

STR. NO.	STATION	OFFSET	AUX. VALVE SIZE, IN.	GRADE RING ELEV.
FH-1	128+53.50	31.63' LT	6	931.55
FH-2	131+31.12	31.63' LT	6	923.80
FH-3	132+44.44	38.52' LT	6	924.20
FH-4	135+10.00	31.63' LT	6	927.50
FH-5	137+14.41	31.63' LT	6	929.85

STORM SEWER PIPE TABLE

PIPE NO.	FROM STR.	TO STR.	DESCRIPTION	DIA. (INCH)	LENGTH (FT)	SLOPE (%)	T. B. F. (CU YD)
S1	1	1A	SS (WATER MAIN REQ) 12 IN.	12	49	0.44	6.3
S2	1A	2	SS (WATER MAIN REQ) 12 IN.	12	10	0.44	1.7
S3	3	1A	SS (WATER MAIN REQ) 12 IN.	12	39	0.44	5.5
S4	4	5	SS (WATER MAIN REQ) 12 IN.	12	33	0.50	5.3
S5	5	6	SS TY 2, CLASS A RCP	12	5	0.50	0.9
S6	6	7	SS TY 2, CLASS A RCP	12	80	0.44	-
S7	7	8	SS TY 2, CLASS A RCP	12	70	0.44	-
S8	8	11	SS TY 2, CLASS A RCP	12	50	0.44	-
S9	9	10	SS TY 2, CLASS A RCP	12	33	0.50	4.9
S9A	9A	9	SS (WATER MAIN REQ) 12 IN.	12	50	0.50	7.2
S9B	9B	9	SS (WATER MAIN REQ) 12 IN.	12	12	0.50	2.1
S9C	9C	9B	SS (WATER MAIN REQ) 12 IN.	12	50	0.50	-
S10	10	11	SS TY 2, CLASS A RCP	12	5	0.50	1.1
S11	11	13	SS TY 2, CLASS A RCP	15	70	0.33	4.0
S12	12	13	SS TY 2, CLASS A RCP	12	12	0.50	3.8
S12A	12A	12	SS TY 2, CLASS A RCP	12	20	0.50	2.1
S13	13B	19	SS TY 2, CLASS A RCP	15	60	0.33	3.8
S13A	13	13A	SS TY 2, CLASS A RCP	15	62	0.33	24
S13B	13A	13B	SS TY 2, CLASS A RCP	15	10	0.33	4
S14	14	16	SS (WATER MAIN REQ) 12 IN.	12	16	0.50	2.3
S15	15	16	SS (WATER MAIN REQ) 12 IN.	12	10	0.50	1.9
S16	16	18	SS (WATER MAIN REQ) 12 IN.	12	44	0.50	6.8
S17	17	18	SS TY 2, CLASS A RCP	12	10	0.50	1.9
S18	18	19	SS TY 2, CLASS A RCP	12	27	0.50	4.7
S20	20	21	SS (WATER MAIN REQ) 12 IN.	12	10	0.50	1.9
S21	21	19	SS (WATER MAIN REQ) 12 IN.	12	47	0.44	14.7
S22	22	21	SS (WATER MAIN REQ) 12 IN.	12	30	0.44	1.9
S23	23	24	SS (WATER MAIN REQ) 12 IN.	12	33	0.50	5.3
S24	24	25	SS TY 2, CLASS A RCP	12	5	0.50	2.9
S25	25	19	SS TY 2, CLASS A RCP	18	77	0.26	8.6
S26	26	23	SS (WATER MAIN REQ) 12 IN.	12	76	0.50	15.8
S27	27	27B	SS (WATER MAIN REQ) 12 IN.	12	30	0.50	5.3
S27A	27A	27	SS (WATER MAIN REQ) 12 IN.	12	18	0.50	-
S27B	27B	28	SS (WATER MAIN REQ) 12 IN.	12	14	0.50	2.0
S28	28	29	SS (WATER MAIN REQ) 12 IN.	12	33	0.50	4.9
S29	29	30	SS TY 2, CLASS A RCP	12	5	0.50	1.2
S30	30	25	SS TY 2, CLASS A RCP	18	175	0.26	30.0
Total					1380		188

CITY WATER MAIN SERVICE SCHEDULE

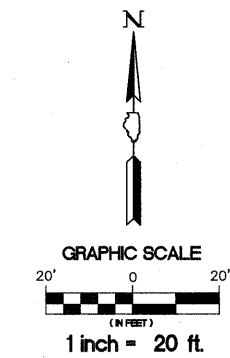
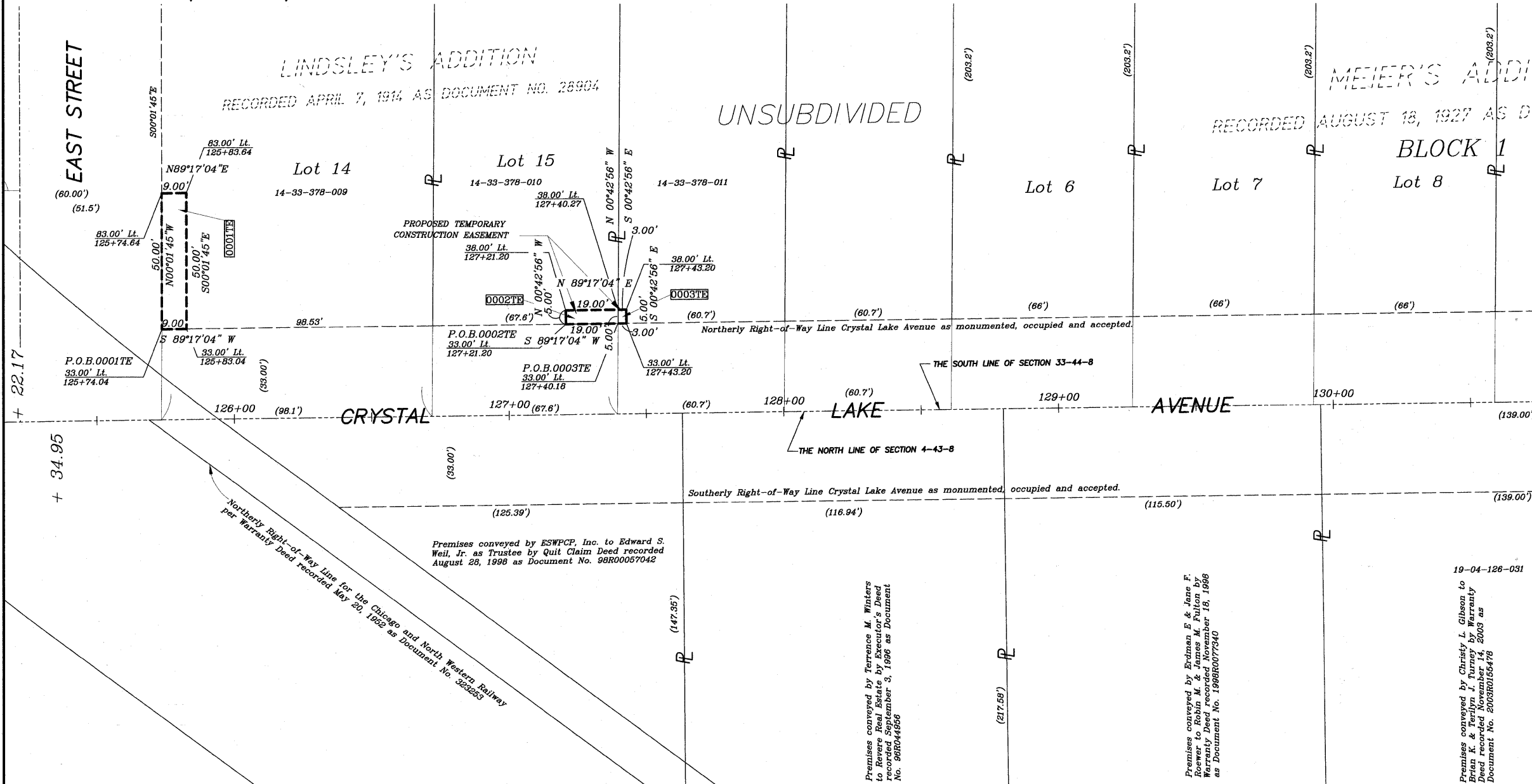
STATION	CORP. STOP OFFSET	SERVICE LENGTH		T. B. F. (CU YD)	PATCHING CLASS D TY. IV, 10" (SQ YD)
		FOOT	SIZE (IN)		
126+62.71	21.05 LT	12	1	4.58	-
127+40.80	21.06 LT	12	1	4.58	-
127+79.82	21.06 LT	12	1	4.58	-
128+22.67	21.07 LT	12	1	4.58	-
128+53.49	21.07 LT	12	1	4.58	-
129+06.57	21.08 LT	12	1	4.58	-
129+67.61	21.08 LT	12	1	1.53	-
130+48.23	28.92 LT	4	1	4.58	-
130+74.22	28.92 LT	4	1	4.58	-
131+24.98	21.08 LT	12	1	4.58	-
131+47.50	21.08 LT	12	1	4.58	-
133+80.75	21.08 LT	12	1	4.58	-
134+48.98	21.08 LT	12	1	4.58	-
134+76.67	21.08 LT	12	1	4.58	-
135+94.18	21.08 LT	12	1	4.58	-
136+87.56	21.07 LT	12	1	4.58	-
TOTAL		176	16	62.64	-

STATION	CORP. STOP OFFSET	SERVICE LENGTH		T. B. F. (CU YD)	PATCHING CLASS D TY. IV, 10" (SQ YD)
		FOOT	SIZE (IN)		
128+18.22	21.07 LT	54	1	28.01	4.5
129+23.25	21.08 LT	54	1	28.01	4.5
130+38.30	28.92 LT	62	1	29.03	4.5
131+27.55	21.08 LT	54	1	28.01	4.5
132+06.42	21.08 LT	54	1	26.99	4.5
132+82.27	21.08 LT	54	1	26.48	4.5
133+12.38	21.08 LT	54	1	26.48	4.5
133+75.38	21.08 LT	54	1	26.48	4.5
134+25.73	21.08 LT	54	1	26.48	4.5
134+90.48	21.08 LT	54	1	26.48	4.5
136+25.91	21.07 LT	54	1	26.48	4.5
TOTAL		602	11	298.94	49.5

**CITY WATER MAIN TRENCH
BACKFILL SCHEDULE**

LOCATION STATION-STATION	T. B. F. (CU YD)
E. CRYSTAL LAKE AVE	
125+36.56 - 125+78.01	27.50
125+53.78 - 125+53.78	15.28
127+23.48 - 127+40.63	13.44
127+79.65 - 128+19.36	26.89
128+64.08 - 128+80.93	12.83
129+29.86 - 129+46.80	12.83
129+74.40 - 131+23.60	99.61
132+27.74 - 132+27.74	22.61
131+50.11 - 137+84.02	393.56
132+27.76 - 132+31.10	4.89
125+53.76 - 125+60.21	5.50
128+53.50 - 128+53.50	5.50
131+31.11 - 131+31.11	5.50
132+27.76 - 132+41.23	9.78
135+10.00 - 135+10.00	5.50
137+14.41 - 137+14.41	5.50
TOTAL	666.73

LOCATION STATION-STATION	DUCTILE IRON WATER MAIN		
	6"	8"	10"
E. CRYSTAL LAKE AVE			
125+53.76 - 125+60.21	7.0	-	-
128+53.50 - 128+53.50	11.0	-	-
131+31.12 - 131+31.12	11.0	-	-
132+27.76 - 132+44.44	17.0	-	-
135+10.10 - 135+10.10	11.0	-	-
137+14.41 - 137+14.41	11.0	-	-
131+27.76 - 132+31.71	-	4.0	-
125+36.56 - 137+84.02	-	-	1262.0
125+53.78 - 125+53.78	-	-	23.0
132+27.76 - 132+27.76	-	-	35.0
137+84.02 - 137+84.02	-	-	7.0
TOTAL	68.0	4.0	1327.0



- LEGEND**
- EXISTING BUILDING
 - RECORD EASEMENT LINE
 - PROPOSED R.O.W. LINE
 - PROPOSED EASEMENT LINE
 - PROPOSED CONSTRUCTION EASEMENT
 - CENTER LINE
 - PLATTED LOT LINE
 - PROPERTY (DEED) LINE
 - RECORD SUBDIVISION LINE
 - APPARENT PROPERTY LINE
 - EXISTING RIGHT OF WAY LINE
 - MEASURED DIMENSION
 - RECORD DATA
 - 129.32(Comp.) COMPUTED DIMENSION
 - P.C. POINT OF CURVATURE
 - P.T. POINT OF TANGENCY
 - P.C.C. POINT OF COMPOUND CURVE
 - SECTION CORNER
 - SECTION LINE
 - QUARTER SECTION LINE

NOTE:
 EXISTING CENTER LINE OF CRYSTAL LAKE ROAD IS THE BASIS OF THE STATIONING WITH THE CENTER LINE AS FOUND MONUMENTED WITH NAILS AT STATION POINTS ALONG THE SECTION / TOWNSHIP LINE.

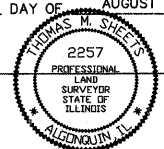
- IRON PIPE OR ROD FOUND REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
 T1 IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER IN CH.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
 BT2 BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

STATE OF ILLINOIS }
 COUNTY OF MCHENRY }

THIS IS TO CERTIFY THAT WE, BOLLINGER, LACH AND ASSOCIATES, INC., ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-001129, HAVE SURVEYED THE PROPERTY DESCRIBED HEREON IN THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF OUR 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.

DATED AT ALGONQUIN, ILLINOIS THIS 9TH DAY OF AUGUST 2008, A.D.

BOLLINGER, LACH & ASSOCIATES, INC.
 THOMAS M. SHEETS
 IPLS NO. 2257
 EXPIRES 11/30/2008



THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR BOUNDARY SURVEYS

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN	REMAINDER ACRES	EASEMENT AREA ACRES	SQ. FT.	PURPOSE	PERMANENT TAX INDEX NUMBER
0001TE	James Tomasello and Carrie A. Tomasello, husband and wife, as tenants by the entirety	0.745	N. / A.	0.745	0.010	450	Construction	14-33-378-009
0002TE	James Schaid and Kathleen Schaid, husband and wife, as tenants by the entirety	0.506	N. / A.	0.506	0.002	95	Construction	14-33-378-010
0003TE	Eli G. Sosa and Wendy K. Lopez Sosa, husband and wife, as tenants by the entirety	0.455	N. / A.	0.455	0.000	15	Construction	14-33-378-011

Area of properties calculated to the Right-of-way Line of Crystal Lake Avenue as monumented, occupied and accepted.

8-5-08 REVISION, ALL SHEETS PER IDOT JULY 31, 2008 REVIEW TRANSMITTAL AND CHANGE SIZE OF 0016TE AND 0017TE, PLAN CHANGE.
 7-21-08 REVISION, ALL SHEETS PER IDOT JULY 9, 2008 REVIEW TRANSMITTAL
 7-03-08 REVISION, GENERAL ALL SHEETS FOR 2 ND PRELIMINARY SUBMITTAL

Bollinger, Lach & Associates, Inc.
 CONSULTING ENGINEERS, SCIENTISTS & LAND SURVEYORS
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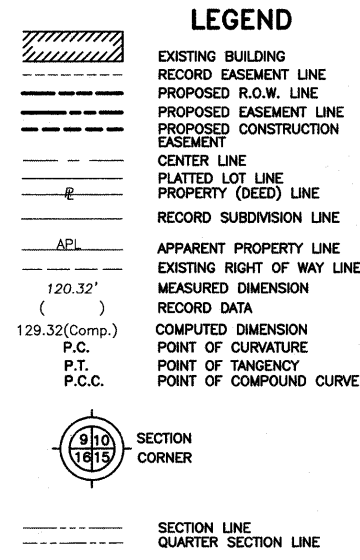
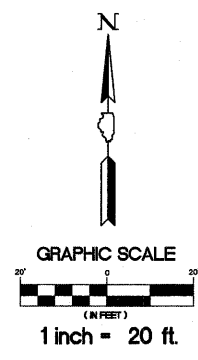
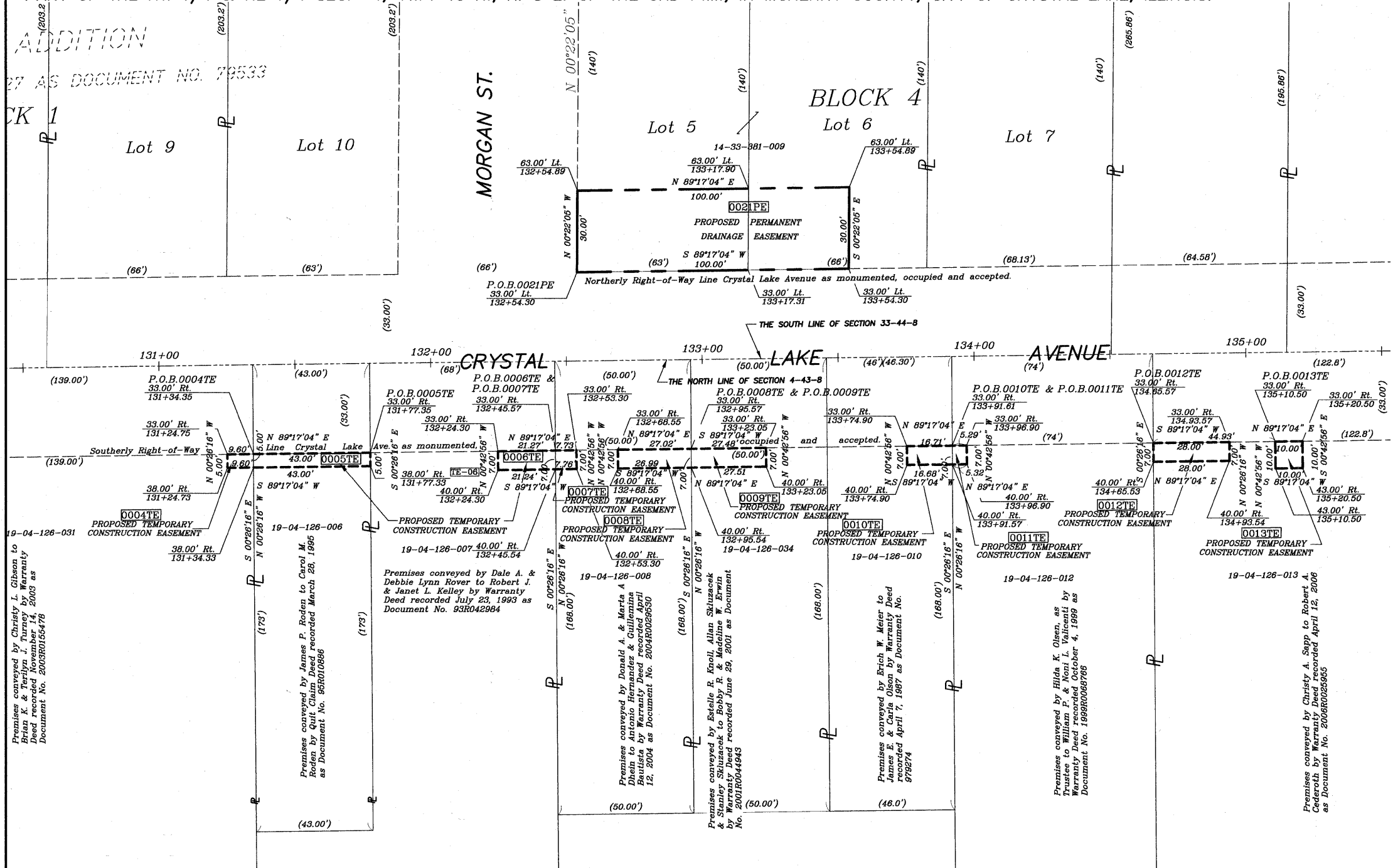
PLAT OF HIGHWAYS
 CITY OF CRYSTAL LAKE
 MCHENRY COUNTY, ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PROJECT: CRYSTAL LAKE AVENUE
 STATION: 112+00
 TO STATION: 125+20
 JOB NO: R-55-001-97
 SCALE 1" = 20'

BLA JOB NO: 789-006 SHEET 2 OF 6

ADDITION

AS DOCUMENT NO. 79533

CK 1



- 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
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

PARCEL NUMBER	OWNER	TOTAL HOLDING	PART TAKEN	REMAINDER	EASEMENT AREA		PURPOSE	PERMANENT TAX INDEX NUMBER
		ACRES	ACRES	ACRES	ACRES	SQ. FT.		
0021PE	Wayne Hummer Trust Company N. A. f/k/a Wintrust Asset Management Co., N.A. Trust #LFT 1953 dated 8/6/04	0.415	N. / A.	0.415	0.069	3000	Drainage Easement	14-33-381-009
0004TE	Brian K. & Terilyn J. Turney, husband and wife, as tenants by entirety	0.982	N. / A.	0.982	0.001	48	Construction	19-04-126-031
0005TE	All Weather, Incorporated	0.138	N. / A.	0.138	0.005	215	Construction	19-04-126-006
0006TE	Robert J. Kelley and Janet L. Kelley, as joint tenants	0.686	N. / A.	0.686	0.003	149	Construction	19-04-126-007
0007TE	Antonio Hernandez and Guillemina Bautista, as tenants by the entirety	0.155	N. / A.	0.155	0.001	54	Construction	19-04-126-008
0008TE	Antonio Hernandez and Guillemina Bautista, as tenants by the entirety	0.155	N. / A.	0.155	0.004	189	Construction	19-04-126-008
0009TE	Bobby R. and Madeline W. Erwin, husband and wife, as tenants by entirety	1.427	N. / A.	1.427	0.004	192	Construction	19-04-126-034
0010TE	James E. and Carla Olson, his wife, as joint tenants	0.133	N. / A.	0.133	0.002	117	Construction	19-04-126-010
0011TE	William P. and Noni L. Valicenti, husband and wife, as joint tenants	1.010	N. / A.	1.010	0.001	37	Construction	19-04-126-012
0012TE	Adele Hernandez and Nancy Galloway as tenants in common	1.908	N. / A.	1.908	0.005	196	Construction	19-04-126-013
0013TE	Adele Hernandez and Nancy Galloway, as tenants in common	1.908	N. / A.	1.908	0.002	100	Construction	19-04-126-013

Area of properties calculated to the Right-of-way Line of Crystal Lake Avenue as monumented, occupied and accepted.

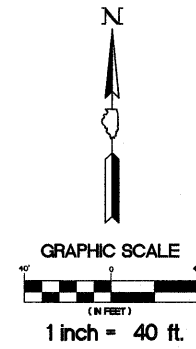
STATE OF ILLINOIS }
 COUNTY OF MCHENRY }
 THIS IS TO CERTIFY THAT WE, BOLLINGER, LACH AND ASSOCIATES, INC., ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-001129, HAVE SURVEYED THE PROPERTY DESCRIBED HEREON IN THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF OUR 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.
 DATED AT ALGONQUIN, ILLINOIS THIS 6 TH DAY OF AUGUST 2008, A.D.
 BOLLINGER, LACH & ASSOCIATES, INC.
 THOMAS M. SHEETS
 IPLS NO. 2257
 EXPIRES 11/30/2008



8-5-08 REVISION, ALL SHEETS PER IDOT JULY 31, 2008 REVIEW TRANSMITTAL AND CHANGE SIZE OF 0016TE AND 0017TE, PLAN CHANGE.
 7-21-08 REVISION, ALL SHEETS PER IDOT JULY 9, 2008 REVIEW TRANSMITTAL
 7-03-08 REVISION, GENERAL ALL SHEETS FOR 2 ND PRELIMINARY SUBMITTAL

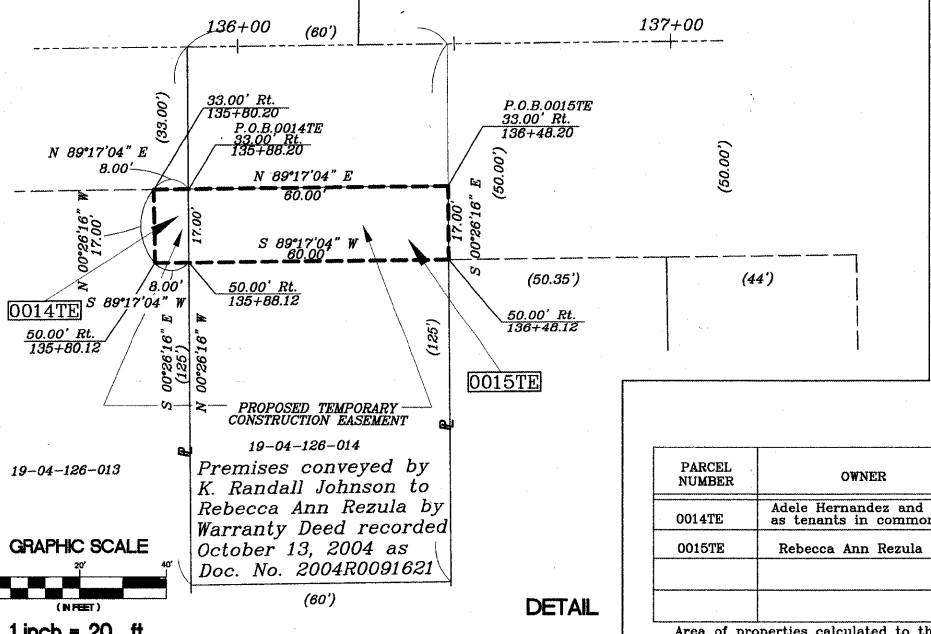
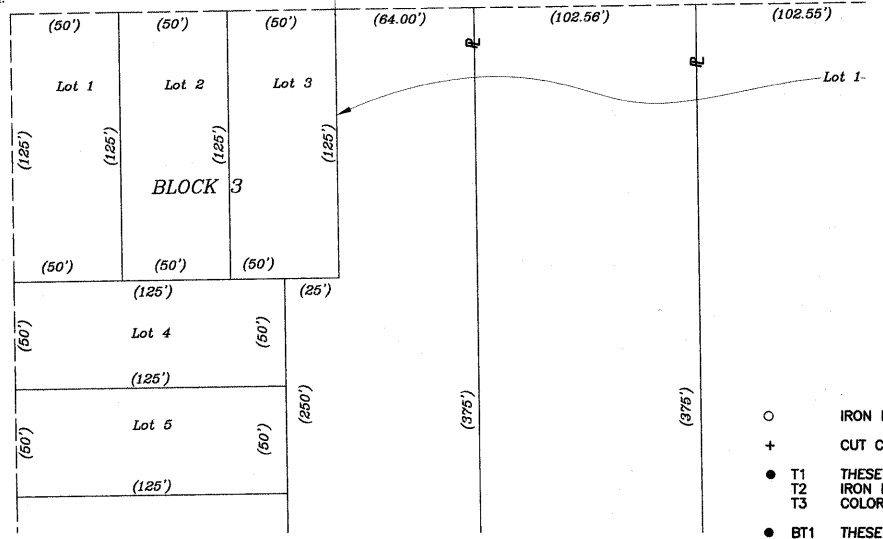
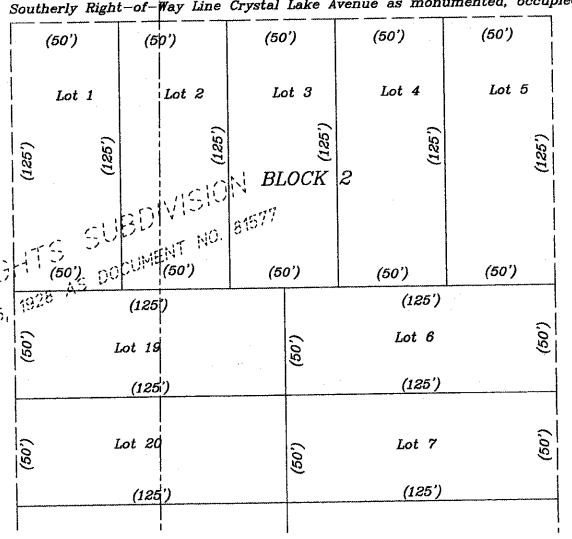
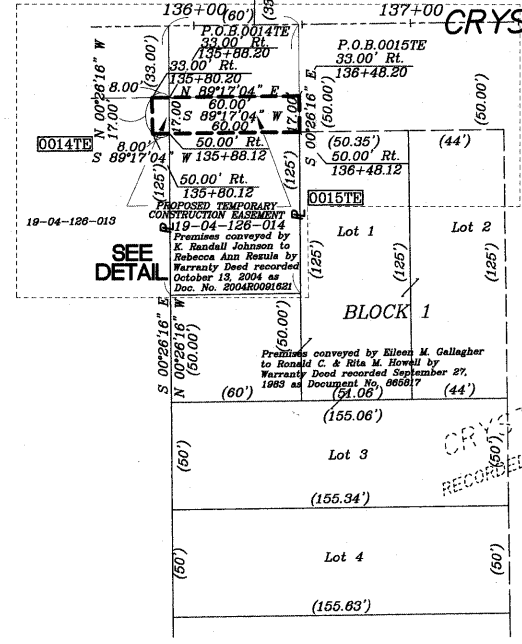
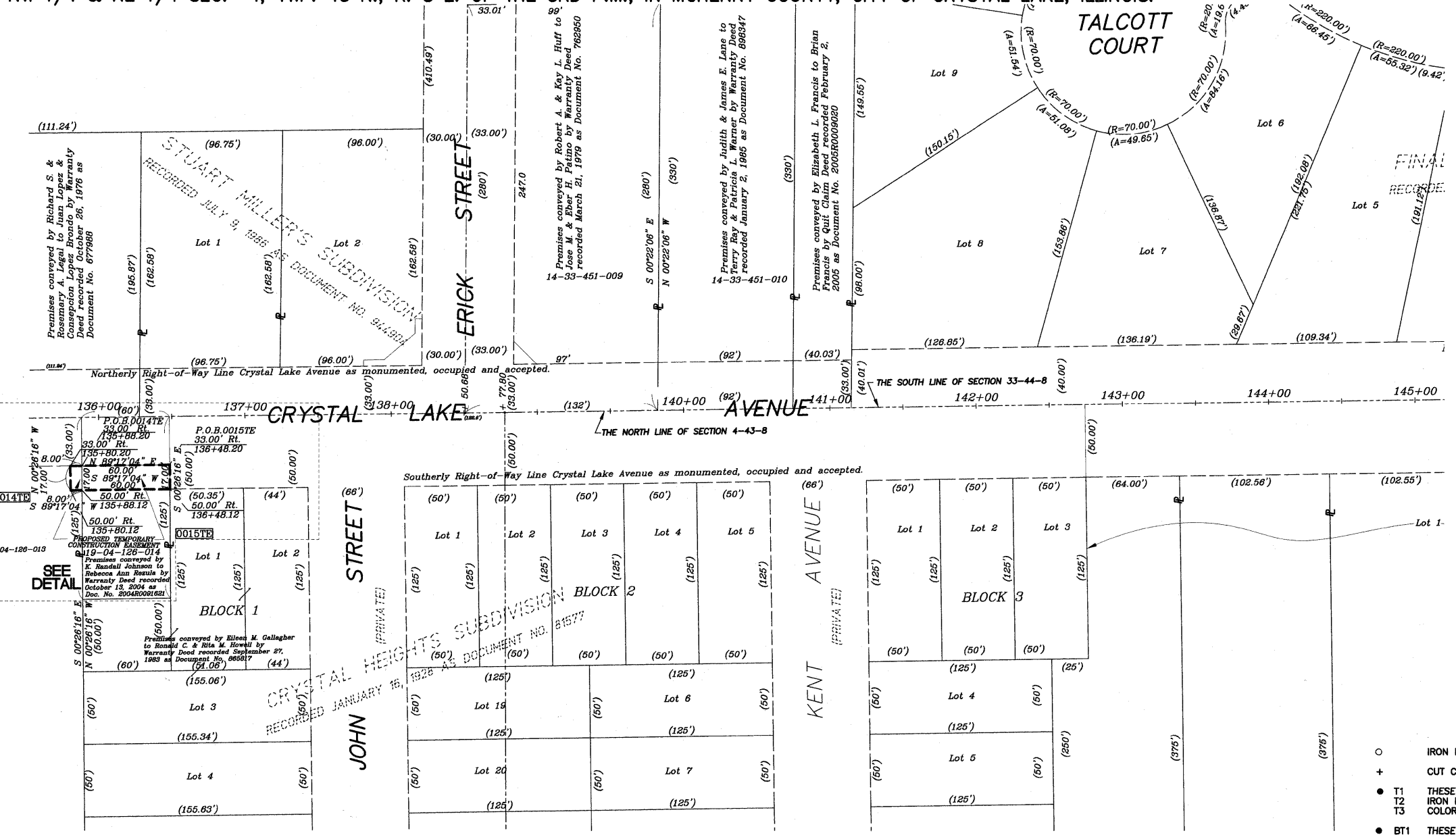
Bollinger, Lach & Associates, Inc.
 CONSULTING ENGINEERS, SCIENTISTS & LAND SURVEYORS
 2100 HUNTINGTON DRIVE NORTH - SUITE A, ALGONQUIN, IL 60102
 P(847) 854-7799 F(847) 854-7798 www.bollingerlach.com

PLAT OF HIGHWAYS
 CITY OF CRYSTAL LAKE
 MCHENRY COUNTY, ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PROJECT: CRYSTAL LAKE AVENUE
 STATION: 112+00
 TO STATION: 125+20
 JOB NO: R-55-001-97
 SCALE 1" = 20'



LEGEND

- EXISTING BUILDING
- RECORD EASEMENT LINE
- PROPOSED R.O.W. LINE
- PROPOSED EASEMENT LINE
- PROPOSED CONSTRUCTION EASEMENT
- CENTER LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- RECORD SUBDIVISION LINE
- APL
- APPARENT PROPERTY LINE
- EXISTING RIGHT OF WAY LINE
- MEASURED DIMENSION
- RECORD DATA
- COMPUTED DIMENSION
- P.C.
- P.T.
- P.C.C.
- SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- IRON PIPE OR ROD FOUND
- REPLACED AFTER CONSTRUCTION
- CUT CROSS FOUND OR SET
- 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.
- 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
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)



PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN	REMAINDER ACRES	EASEMENT AREA ACRES	SQ. FT.	PURPOSE	PERMANENT TAX INDEX NUMBER
0014TE	Adele Hernandez and Nancy Galloway, as tenants in common	1.908	N. / A.	1.908	0.003	136	Construction	19-04-126-013
0015TE	Rebecca Ann Rezula	0.127	N. / A.	0.127	0.023	1020	Construction	19-04-126-014

Area of properties calculated to the Right-of-way Line of Crystal Lake Avenue as monumented, occupied and accepted.

STATE OF ILLINOIS)
 COUNTY OF MCHENRY)
 SS
 THIS IS TO CERTIFY THAT WE, BOLLINGER, LACH AND ASSOCIATES, INC., ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-001129, HAVE SURVEYED THE PROPERTY DESCRIBED HEREON IN THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF OUR 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.

DATED AT ALGONQUIN, ILLINOIS THIS 19 TH DAY OF AUGUST 2008, A.D.

BOLLINGER, LACH & ASSOCIATES, INC.
 THOMAS M. SHEETS
 IPLS NO. 2257
 EXPIRES 11/30/2008



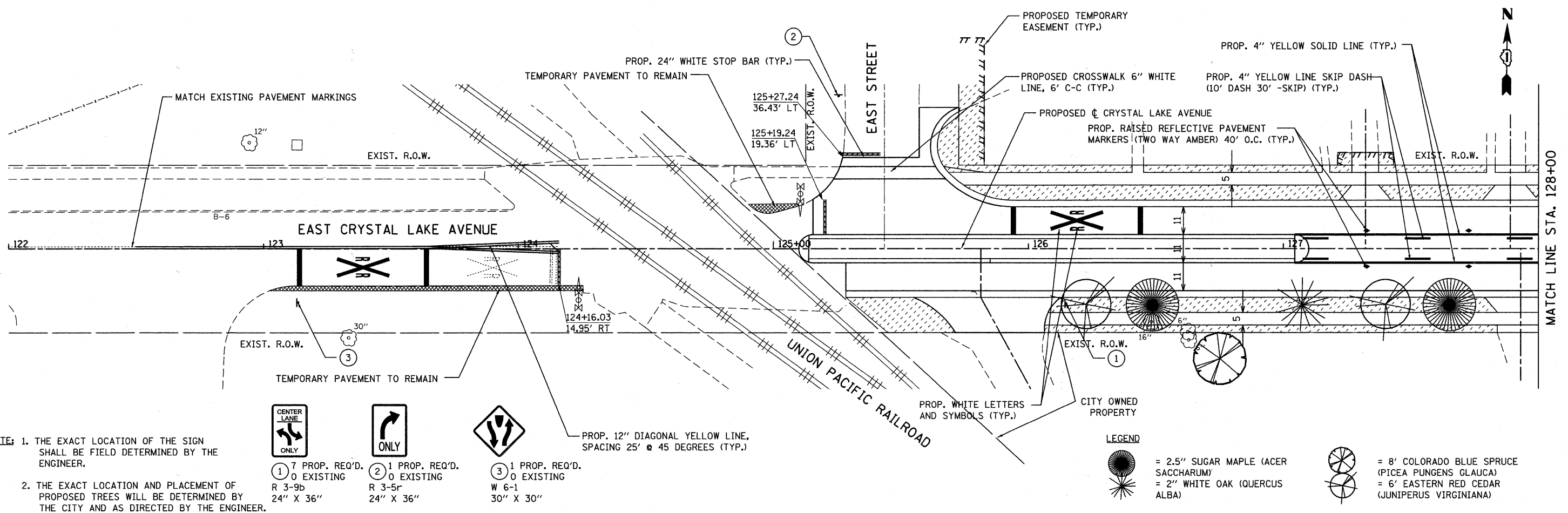
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR BOUNDARY SURVEYS

NOTE:
 EXISTING CENTER LINE OF CRYSTAL LAKE ROAD IS THE BASIS OF THE STATIONING WITH THE CENTER LINE AS FOUND MONUMENTED WITH NAILS AT STATION POINTS ALONG THE SECTION / TOWNSHIP LINE.

- 8-19-08 REVISION, THIS SHEETS ONLY, delete 0016TE and 0017TE.
- 8-12-08 REVISION, THIS SHEETS ONLY, CORRECT 0016TE (depth to 22')
- 8-5-08 REVISION, ALL SHEETS PER IDOT JULY 31, 2008 REVIEW TRANSMITTAL AND CHANGE SIZE OF 0016TE AND 0017TE, PLAN CHANGE.
- 7-21-08 REVISION, ALL SHEETS PER IDOT JULY 9, 2008 REVIEW TRANSMITTAL
- 7-03-08 REVISION, GENERAL ALL SHEETS FOR 2 ND PRELIMINARY SUBMITTAL

Bollinger, Lach & Associates, Inc.
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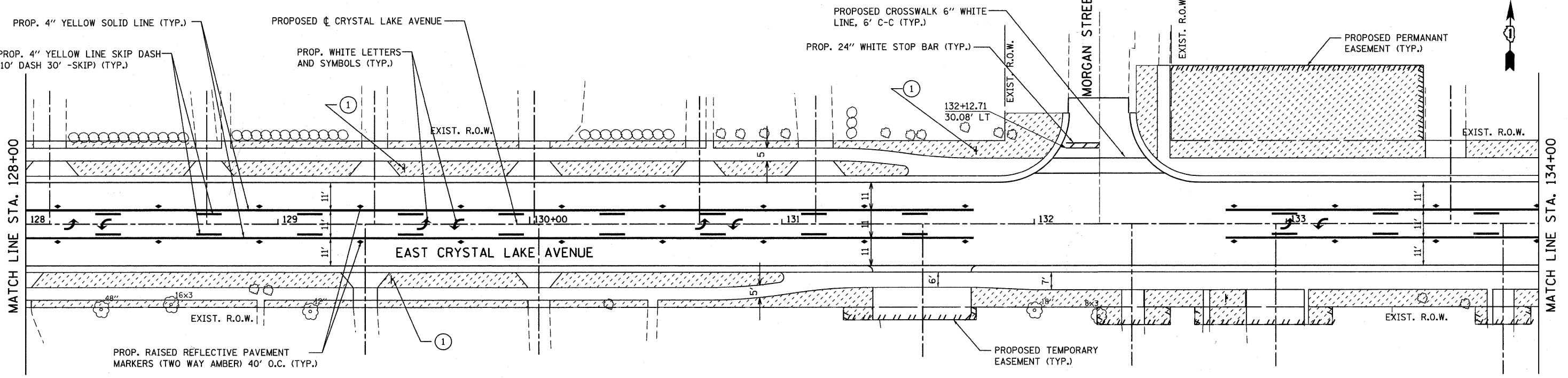
PLAT OF HIGHWAYS
 CITY OF CRYSTAL LAKE
 MCHENRY COUNTY, ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PROJECT: CRYSTAL LAKE AVENUE
 STATION: 112+00
 TO STATION: 125+20
 JOB NO.: R-55-001-97
 SCALE 1" = 40'



NOTE: 1. THE EXACT LOCATION OF THE SIGN SHALL BE FIELD DETERMINED BY THE ENGINEER.
 2. THE EXACT LOCATION AND PLACEMENT OF PROPOSED TREES WILL BE DETERMINED BY THE CITY AND AS DIRECTED BY THE ENGINEER.

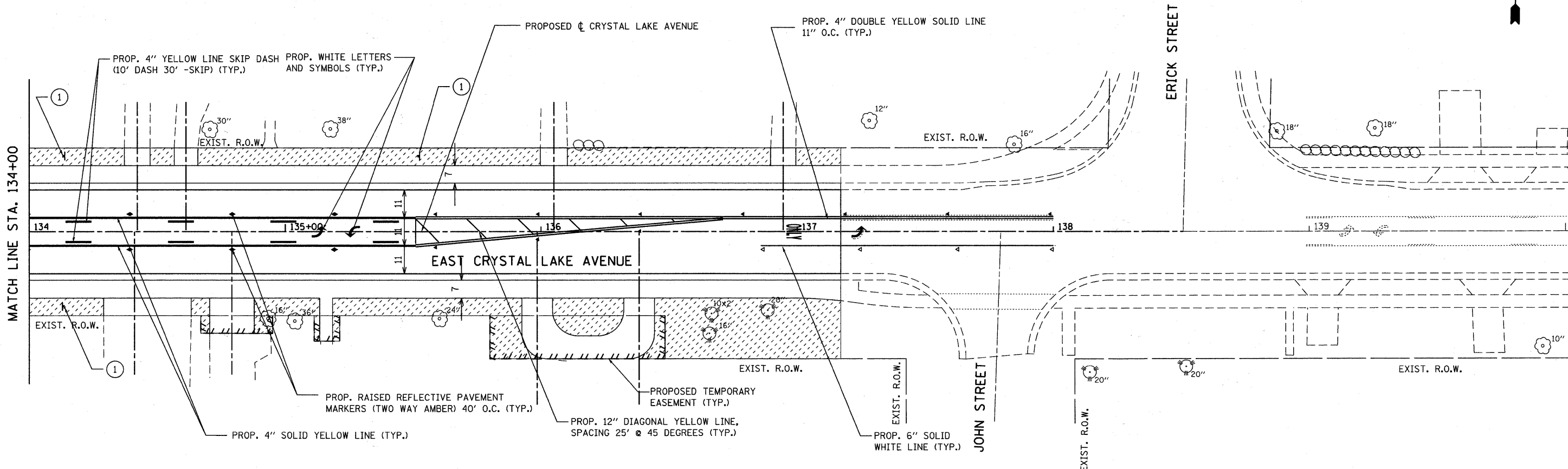
- ① 7 PROP. REQ'D.
0 EXISTING
R 3-9b
24" X 36"
- ② 1 PROP. REQ'D.
0 EXISTING
R 3-5r
24" X 36"
- ③ 1 PROP. REQ'D.
0 EXISTING
W 6-1
30" X 30"

- LEGEND**
- = 2.5" SUGAR MAPLE (ACER SACCHARUM)
 - = 2" WHITE OAK (QUERCUS ALBA)
 - = 8' COLORADO BLUE SPRUCE (PICEA PUNGENS GLAUCA)
 - = 6' EASTERN RED CEDAR (JUNIPERUS VIRGINIANA)



- LEGEND**
- PROP. TOPSOIL, FURNISH AND PLACE 4" SODDING, SALT TOLERANT

FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwenger I:\CADD_Sheets\0163524-sht-pmkindsopl.dgn	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE PAVEMENT MARKING, SIGNING AND LANDSCAPING			F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 33
PLOT SCALE = 20.0000' / IN.	CHECKED - JP	DATE - 02/7/2011	REVISED -		SCALE: 1"=20'	SHEET NO. 33 OF 64 SHEETS	STA. 125+10 TO STA. 134+00	CONTRACT NO. 63524				
PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							



MATCH LINE STA. 134+00



① 7 PROP. REQ'D.
0 EXISTING
R 3-9b
24" X 36"

NOTE: 1. THE EXACT LOCATION OF THE SIGN SHALL BE FIELD DETERMINED BY THE ENGINEER.
2. THE EXACT LOCATION AND PLACEMENT OF PROPOSED TREES WILL BE DETERMINED BY THE CITY AND AS DIRECTED BY THE ENGINEER.

LEGEND

PROP. TOPSOIL, FURNISH AND PLACE 4" SODDING, SALT TOLERANT

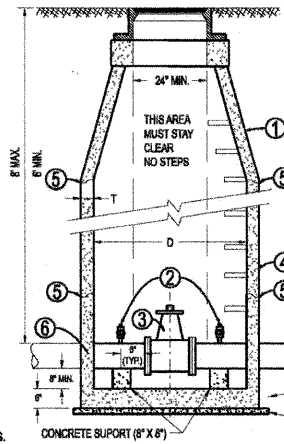
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST CRYSTAL LAKE AVENUE
PAVEMENT MARKING, SIGNING AND LANDSCAPING**

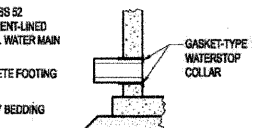
FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT	USER NAME = gellwinger 1\NCADD_Sheets\0163524-aht-pmk\ndcp2.dgn	DESIGNED - GJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST CRYSTAL LAKE AVENUE PAVEMENT MARKING, SIGNING AND LANDSCAPING	F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY McHENRY	TOTAL SHEETS 64	SHEET NO. 34
PLOT SCALE = 20,0000' / IN.		CHECKED - JP	REVISED -	SCALE: 1"=20'		SHEET NO. 34 OF 64 SHEETS		STA. 125+10 TO STA. 134+00		CONTRACT NO. 63524
PLOT DATE = 2/7/2011		DATE - 02/7/2011	REVISED -	ILLINOIS FED. AID PROJECT						

NOTE:
ALL MANHOLES MUST BE DAMP PROOF PER DOT SPECIFICATIONS 1080 "WATER PROOFING MATERIALS"
ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURE SHALL BEAR THE WORDS "CITY OF CRYSTAL LAKE WATER".
DRAIN FOR VALVE VAULT SHALL BE CONSTRUCTED ONLY WHEN SHOWN ON THE PLANS.
FRAME AND RINGS(S) TO BE SET IN MORTAR BED OR SEALED WITH A PREFORMED BITUMEN SEAL (E-Z-STICK OR APPROVED EQUAL).
FOR PRESSURE CONNECTION, SEE DETAIL UW-2.

D	T
8 INCHES AND OVER	5 FT. 6"



- 1 CONCENTRIC CONES REQUIRED
- 2 1" (PREFERRED, 3/4" MIN.) MUELLER, A.Y. McDONALD, OR FORD CORPORATION STOP EACH SIDE OF VALVE MUST BE A COMPRESSION FITTING.
- 3 MUELLER 2380-23-8020 OR AMERICAN FLOW CONTROL 2500-1 RESILIENT SEAT GATE VALVE
- 4 PRECAST CONCRETE MANHOLE SECTIONS WITH A MINIMUM THICKNESS OF 5"
- 5 WATERTIGHT JOINT
- 6 GASKET-TYPE WATERSTOP COLLAR FOR ALL WATER MAIN CONNECTIONS
- 7 CAST IRON MANHOLE FRAME & COVER SIMILAR TO NEENAH R-1712, OR EQUAL WITH STANDARD DUTY, NON-ROCKING TYPE LIDS WITH "CITY OF CRYSTAL LAKE WATER" CAST INTO LID. (NEENAH R-2835, OR EQUAL MAY BE USED IN GRASSY AREAS)



NOTE: ALL VALVE HARDWARE MUST BE STAINLESS STEEL INCLUDING NUTS, BOLTS & WASHERS.

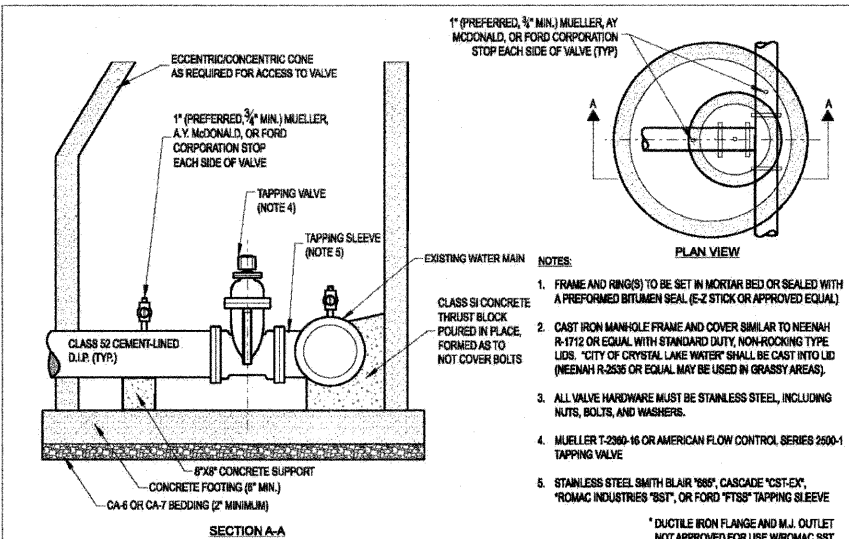
Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name
STANDARD VALVE VAULT

Drawing Number
UW-01

Date: 4/15/2007
Drawn: EM
Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division



- NOTES:
1. FRAME AND RINGS(S) TO BE SET IN MORTAR BED OR SEALED WITH A PREFORMED BITUMEN SEAL (E-Z-STICK OR APPROVED EQUAL)
 2. CAST IRON MANHOLE FRAME AND COVER SIMILAR TO NEENAH R-1712 OR EQUAL WITH STANDARD DUTY, NON-ROCKING TYPE LIDS. "CITY OF CRYSTAL LAKE WATER" SHALL BE CAST INTO LID (NEENAH R-2835 OR EQUAL MAY BE USED IN GRASSY AREAS)
 3. ALL VALVE HARDWARE MUST BE STAINLESS STEEL, INCLUDING NUTS, BOLTS, AND WASHERS.
 4. MUELLER T-2800-16 OR AMERICAN FLOW CONTROL SERIES 2500-1 TAPPING VALVE
 5. STAINLESS STEEL SMITH BLAIR "888" CASCADE "CST-EX" "ROMAC INDUSTRIES" "851", OR FORD "FTS" TAPPING SLEEVE

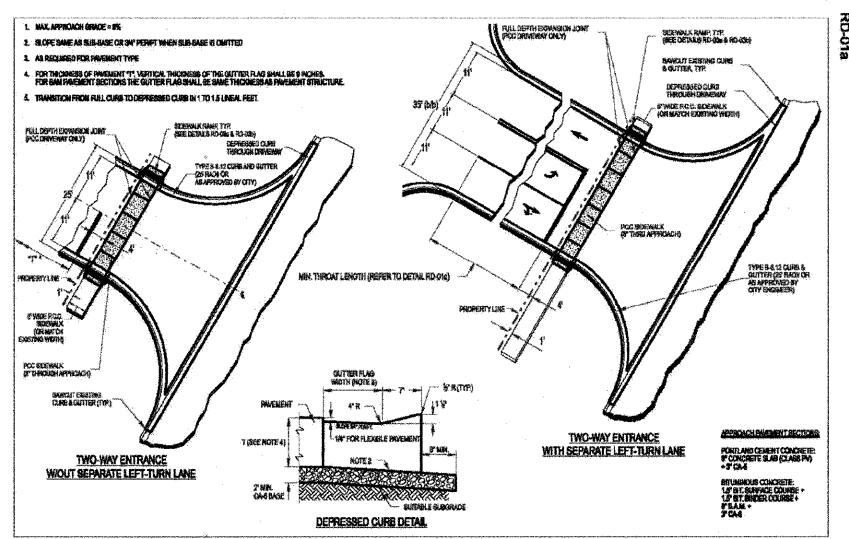
Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name
WATER MAIN PRESSURE CONNECTION

Drawing Number
UW-02

Date: 6/1/2007
Drawn: EM
Checked: JNLZ

CRYSTAL LAKE ILLINOIS Engineering Division



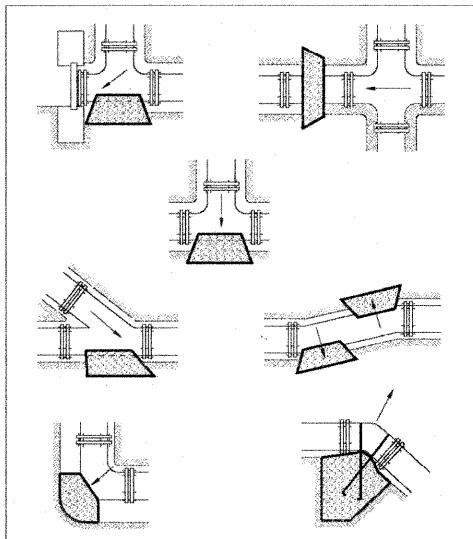
Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name
DRIVEWAY NON-RESIDENTIAL APPROACH

Drawing Number
RD-01a

Date: 6/1/2007
Drawn: EM
Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division



PIPE SIZE	TEEP PLUS	90°	45°	21.12'	11.14'
6	4	2	1	1	1
8	6	4	3	1	1
10	7	5	3	2	1
12	8	6	4	3	2
14	12	9	6	4	3
16	15	12	7	5	3
18	18	15	9	5	4
24	40	30	15	10	5

NOTES:

ALL BLOCKING SHALL BE POURED CLASS SI CONCRETE AGAINST UNDISTURBED EARTH.

ALL BENDS OR ELBOWS GREATER THAN 11 1/4" SHALL HAVE THRUST BLOCKING. FORM AS TO NOT COVER BOLTS.

IN LIEU OF THRUST BLOCKING "MEGALUG" (EBA) JOINT RESTRAINTS OR APPROVED EQUAL CAN BE USED AS APPROVED BY THE ENGINEER.

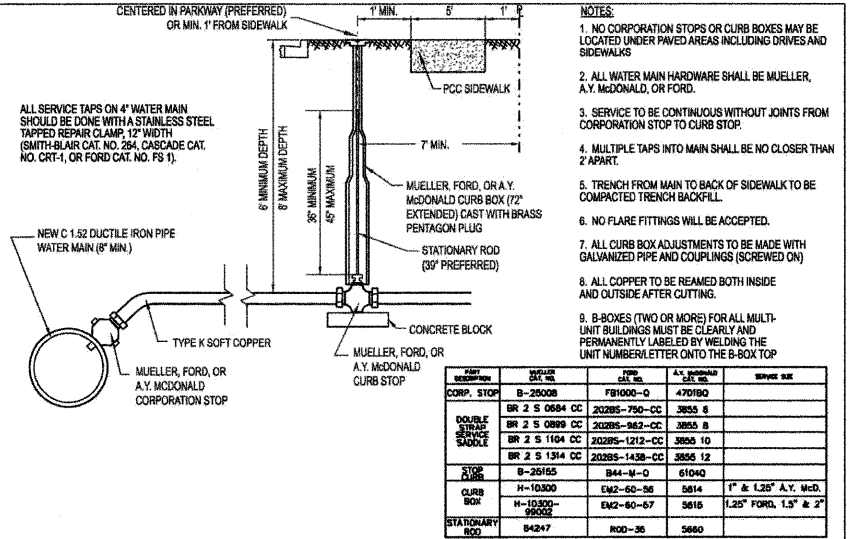
Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name
THRUST BLOCK INSTALLATION

Drawing Number
UW-03

Date: 4/15/2007
Drawn: EM
Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division



PIPE SIZE	TYPE	MANUFACTURER	ITEM NO.	QTY	REMARKS
8"	COMP. STOP	B-28308	FR1800-C	4/10/00	
8"	DOUBLE SERVICE SADDLE	BR 2 S 0884 CC	20285-790-CC	3853 8	
8"	DOUBLE SERVICE SADDLE	BR 2 S 0889 CC	20285-863-CC	3853 8	
8"	DOUBLE SERVICE SADDLE	BR 2 S 1194 CC	20285-1219-CC	3850 10	
8"	DOUBLE SERVICE SADDLE	BR 2 S 1314 CC	20285-1438-CC	3855 12	
8"	STOP	B-26155	B44-M-C	6104Q	
8"	CURB BOX	H-10300	EM2-60-56	6814	1" & 1.25" A.Y. W.D.
8"	CURB BOX	H-10300-99002	EM2-60-67	6816	1.25" FORD, 1.5" & 2"
8"	STATIONARY ROD	D4247	ROD-35	5860	

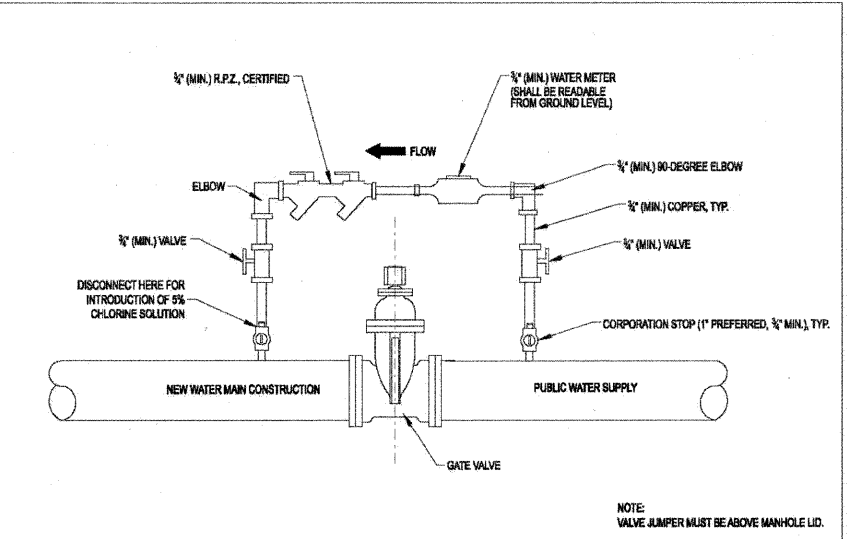
Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name
WATER SERVICE INSTALLATION

Drawing Number
UW-04

Date: 4/15/2007
Drawn: EM
Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division



Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

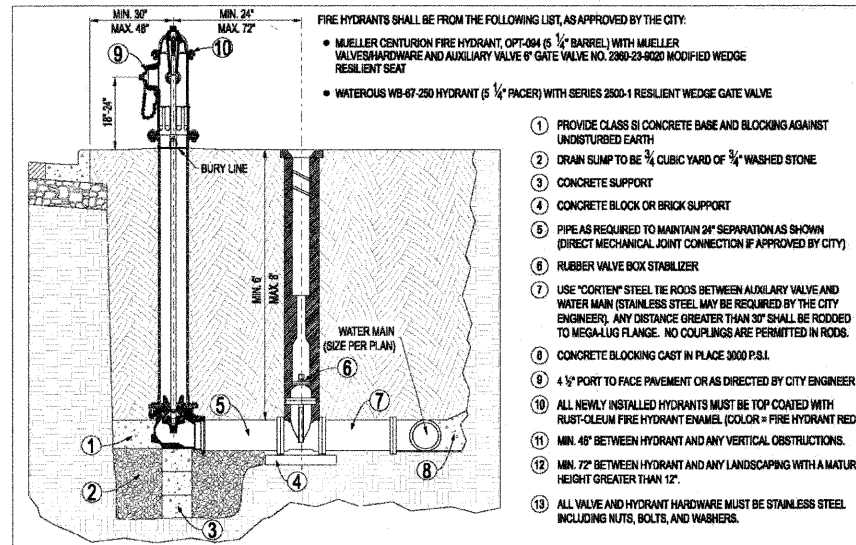
Drawing Name
WATER VALVE JUMPER

Drawing Number
UW-05

Date: 4/15/2007
Drawn: EM
Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division

NOTE: THESE CITY DETAILS ARE ALSO LOCATED ON THE CITY OF CRYSTAL LAKE WEBSITE.



- FIRE HYDRANTS SHALL BE FROM THE FOLLOWING LIST, AS APPROVED BY THE CITY:
- MUELLER CENTURION FIRE HYDRANT, OPT-004 (5/8" BARREL) WITH MUELLER VALVE HARDWARE AND AUXILIARY VALVE 6" GATE VALVE NO. 2869-23-9020 MODIFIED WEDGE RESILIENT SEAT
 - WATEROUS WB-67-250 HYDRANT (5/8" PACER) WITH SERIES 2500-1 RESILIENT WEDGE GATE VALVE
- PROVIDE CLASS II CONCRETE BASE AND BLOCKING AGAINST UNDISTURBED EARTH
 - DRAIN SUMP TO BE 1/2 CUBIC YARD OF 3/4" WASHED STONE
 - CONCRETE SUPPORT
 - CONCRETE BLOCK OR BRICK SUPPORT
 - PIPE AS REQUIRED TO MAINTAIN 2" SEPARATION AS SHOWN (DIRECT MECHANICAL JOINT CONNECTION IF APPROVED BY CITY)
 - RUBBER VALVE BOX STABILIZER
 - USE "CORTEN" STEEL TIE RODS BETWEEN AUXILIARY VALVE AND WATER MAIN (STAINLESS STEEL MAY BE REQUIRED BY THE CITY ENGINEER). ANY DISTANCE GREATER THAN 30" SHALL BE RODDED TO MEGA-LUG FLANGE. NO COUPLINGS ARE PERMITTED IN RODS.
 - CONCRETE BLOCKING CAST IN PLACE 3000 P.S.I.
 - 4 1/2" PORT TO FACE PAVEMENT OR AS DIRECTED BY CITY ENGINEER
 - ALL NEWLY INSTALLED HYDRANTS MUST BE TOP COATED WITH RUST-OLEUM FIRE HYDRANT ENAMEL (COLOR = FIRE HYDRANT RED)
 - MIN. 48" BETWEEN HYDRANT AND ANY VERTICAL OBSTRUCTIONS.
 - MIN. 72" BETWEEN HYDRANT AND ANY LANDSCAPING WITH A MATURE HEIGHT GREATER THAN 12".
 - ALL VALVE AND HYDRANT HARDWARE MUST BE STAINLESS STEEL INCLUDING NUTS, BOLTS, AND WASHERS.

Approved: City Engineer *Victor C. Ramirez, P.E.*
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name: **FIRE HYDRANT**

Drawing Number: **UW-06**
 Date: 11/2/2007
 Drawn: EM Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division

CITY OF CRYSTAL LAKE WATER MAIN CHLORINATION SPECIFICATIONS:

- DISINFECTION OF WATER MAINS SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION, CURRENT EDITION FOR SCHEDULING OF ANY TESTING CHLORINATING, FLUSHING, OR SAMPLING.
- THE CITY ENGINEERING DIVISION AND WATER DIVISION SHALL BE NOTIFIED 48 HOURS IN ADVANCE FOR SCHEDULING OF ANY TESTING CHLORINATING, FLUSHING, OR SAMPLING.
- ONLY CITY WATER DIVISION PERSONNEL MAY OPERATE WATER VALVES ON LINE MAINS.
- A WATER VALVE JUMPER IS REQUIRED TO MAINTAIN PRESSURE ON THE CHLORINATED LINES DURING THE SAMPLING PROCEDURE FOR PROPER INSTALLATION AND REQUIREMENTS SEE THE STANDARD WATER VALVE JUMPER DETAIL.
- WATER MAINS SHALL BE FLUSHED WITH A MINIMUM VELOCITY OF 2.5 FPS.
- THE INITIAL CHLORINE CONCENTRATION SHALL BE 50 mg/L WITH A MINIMUM 24 HOUR RESIDUAL OF 25 mg/L.
- THE METHOD OF CHLORINE APPLICATION SHALL BE APPROVED BY THE CITY:
 - LIQUID CHLORINE WITH CHLORINATING DEVICE WITH BACKFLOW PREVENTER
 - CHLORINE BEARING COMPOUNDS IN WATER
 - TABLET DISINFECTION
- ALL NEW VALVES AND HYDRANTS SHALL BE OPERATED WHILE LINE IS BEING CHLORINATED.
- THE CITY ENGINEERING DIVISION SHALL DETERMINE LOCATION AND QUANTITY OF CORPORATION STOPS FOR FLUSHING AND CHLORINATING.
- THE FINAL FLUSHING RESIDUAL IN THE NEW CHLORINATED LINES SHALL BE BETWEEN 0.2 AND 2.0 mg/L.
- ALL WATER SAMPLES SHALL BE COLLECTED ON TWO (2) CONSECUTIVE DAYS AND PASS BACTERIOLOGICAL TEST RESULTS. IN THE EVENT THAT THE FIRST SET OF SAMPLES TAKEN TWO (2) CONSECUTIVE DAYS APART FAIL TO PASS, ANOTHER SET OF SAMPLES MAY BE TAKEN TWO (2) DAYS APART (PER STATE SPECS). IF THE SECOND SET FAILS TO PASS TESTING, THEN THE PROCEDURE MUST BE REPEATED WITH THE MAIN BEING RECHLORINATED, REFRESHED, AND RESAMPLED.
- STATE CERTIFIED LAB MUST BE USED FOR SAMPLES.

CHLORINE REQUIREMENTS TO PRODUCE 50 mg/L CONCENTRATION IN 100 FEET OF PIPE-BY DIAMETER

PIPE SIZE IN INCHES	100% CHLORINE, LB	1% CHLORINE SOLUTION, GALS.
4	0.027	0.33
6	0.061	0.73
8	0.108	1.30
10	0.170	2.04
12	0.240	2.88

NUMBER OF 5-GRAN HYPOCHLORITE TABLETS REQUIRED FOR A DOSAGE OF 50mg/L PER LENGTH OF PIPE SECTION

PIPE SIZE IN INCHES	LENGTH OF PIPE SECTION IN FEET				
	UP TO 13	18	20	30	40
2	1	1	1	1	1
4	1	1	2	2	2
6	2	2	3	3	4
8	2	3	5	5	6
10	3	5	7	7	9
12	5	6	10	10	14

Approved: City Engineer *Victor C. Ramirez, P.E.*
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name: **CHLORINATION SPECIFICATIONS**

Drawing Number: **UW-08**
 Date: 4/15/2007
 Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

PROJECT NAME: _____ CONTRACTOR: _____ WITNESS: _____

LINE PRESSURIZED DATE: _____ TIME: _____

LINE TESTED DATE: _____ TIME: _____

LOCATION DIAGRAM:

	PRESSURE TEST		CALCULATION FOR ACTUAL WATER VOLUME LOSS	
	2-HOUR	24-HOUR	2-HOUR	24-HOUR
TOTAL LENGTH OF MAIN (FEET)			SURFACE AREA OF SUPPLY VESSEL (FEET)	
PIPE DIAMETER (INCHES)			MAXIMUM ALLOWABLE DROP IN WATER LEVEL (FEET)	
TEST PRESSURE (PSI)			ACTUAL DROP IN WATER LEVEL (FEET)	
TOTAL ALLOWABLE LEAKAGE IN ONE HOUR (GALLONS)			GALLONS	
TOTAL ALLOWABLE LEAKAGE IN TIME FRAME (GALLONS)			INITIAL METER READING	
			24TH HOUR METER READING	
			TOTAL ALLOWABLE LEAKAGE (GALLONS)	
			ACTUAL LEAKAGE (GALLONS)	
			PASS OR FAIL	

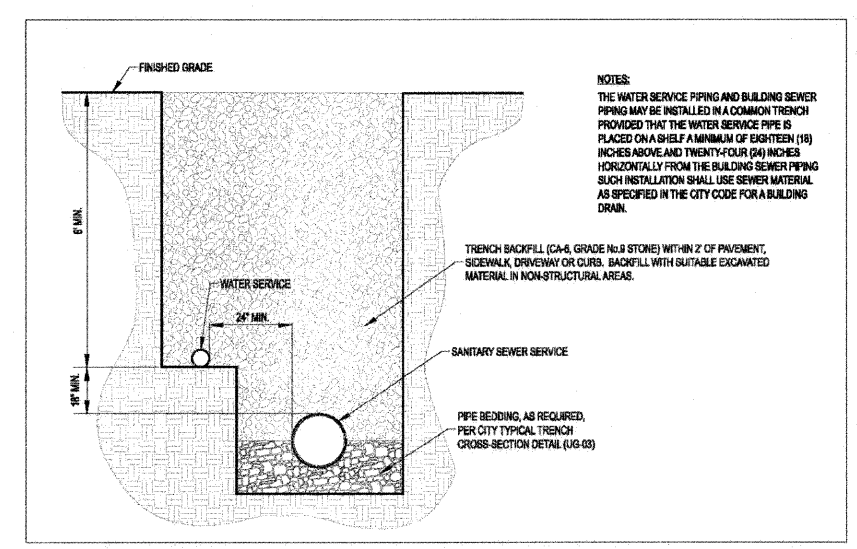
NOTES:

Approved: City Engineer *Victor C. Ramirez, P.E.*
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name: **WATER MAIN TEST REPORT**

Drawing Number: **UW-09**
 Date: 4/15/2007
 Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

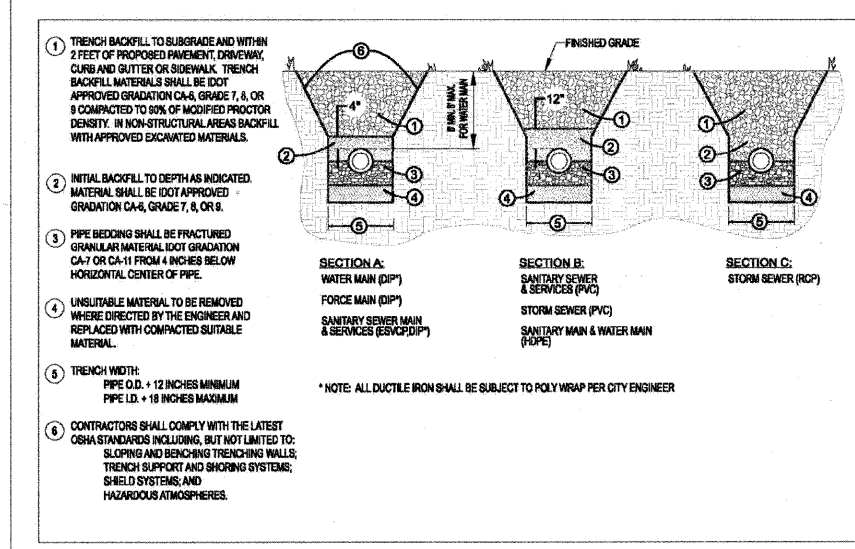


Approved: City Engineer *Victor C. Ramirez, P.E.*
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name: **COMMON WATER/SANITARY SERVICE TRENCH**

Drawing Number: **UG-02**
 Date: 4/15/2007
 Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division



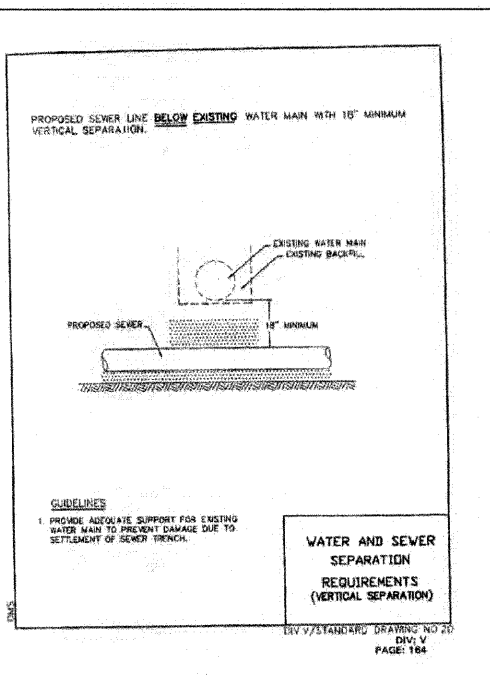
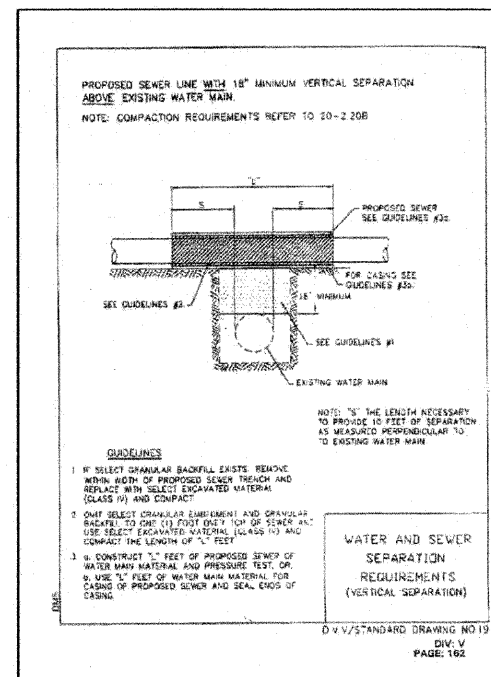
Approved: City Engineer *Victor C. Ramirez, P.E.*
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name: **TYPICAL TRENCH CROSS SECTION**

Drawing Number: **UG-03**
 Date: 6/1/2007
 Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

NOTE: THESE CITY DETAILS ARE ALSO LOCATED ON THE CITY OF CRYSTAL LAKE WEBSITE.



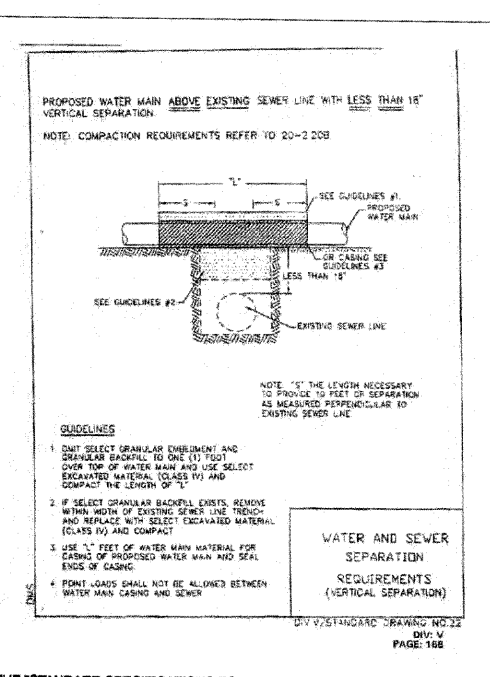
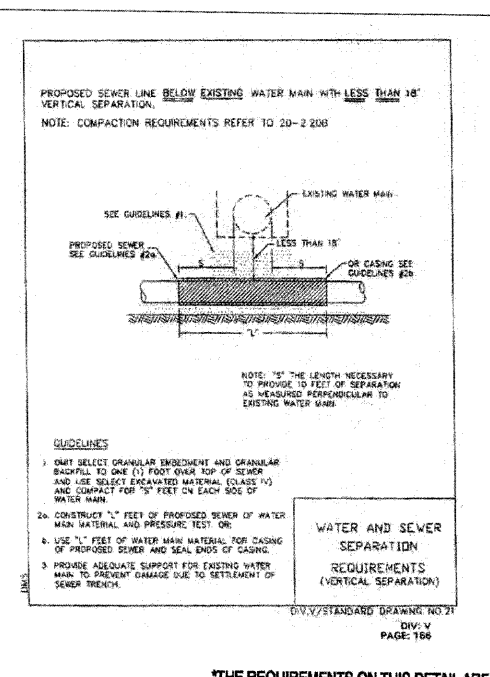
*THE REQUIREMENTS ON THIS DETAIL ARE TAKEN FROM THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", 5TH EDITION (SEE PAGES 160-173)

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: WATER AND SEWER SEPARATION REQUIREMENTS

Drawing Number: UG-04a
Date: 4/15/2007
Drawn: EM
Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division



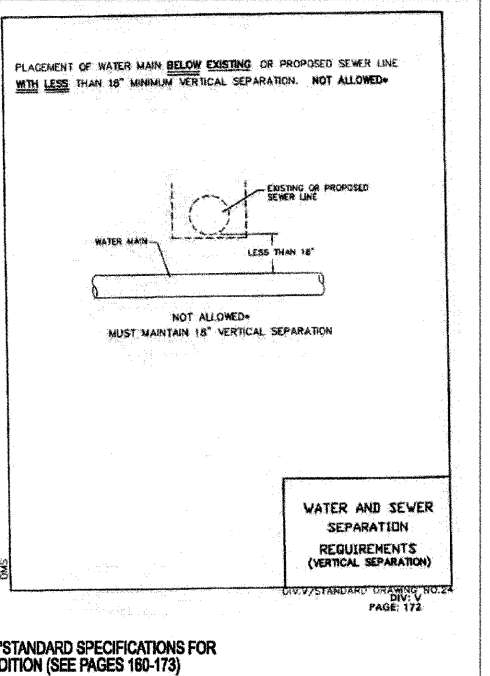
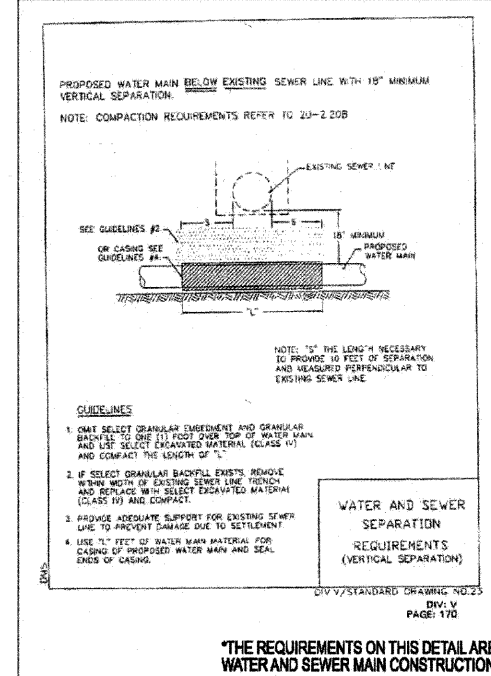
*THE REQUIREMENTS ON THIS DETAIL ARE TAKEN FROM THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", 5TH EDITION (SEE PAGES 160-173)

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: WATER AND SEWER SEPARATION REQUIREMENTS

Drawing Number: UG-04b
Date: 4/15/2007
Drawn: EM
Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division



*THE REQUIREMENTS ON THIS DETAIL ARE TAKEN FROM THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", 5TH EDITION (SEE PAGES 160-173)

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: WATER AND SEWER SEPARATION REQUIREMENTS

Drawing Number: UG-04c
Date: 4/15/2007
Drawn: EM
Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

- WATER MAIN:**
- Thrust blocking shall be installed on water mains at all bends, tees, elbows, etc. except as noted below.
 - Thrust blocks not permitted with 45° vertical bends in water main. These shall be restrained with Mega-Lug or equivalent.
 - Water main shall be ductile iron pipe, Class 52 conforming to A.N.S.I. A-21.51 or AWWA C-151.
 - Gaskets and cast iron fittings shall conform to A.N.S.I. A-21.11 or AWWA C-110 and C-111 water main shall be cement lined in conformance with A.N.S.I. A-21.4 or AWWA C-104.
 - Minimum cover from finished grade to top of water main shall be six (6) feet; Maximum cover shall be eight (8) feet.
 - Water Main Taps: an Illinois licensed plumber is required for any water main tap.
 - All water mains shall be subjected to a pressure test and a separate leakage test at system pressure for 24 hours by the Contractor. Hydrostatic pressure test and leakage shall be based on 125 psi for two (2) hours. Water mains shall be chlorinated in accordance with the Standard Specifications.
 - The Underground Contractor shall consider incidental to the contract any chlorination and testing of existing water main where connections to and conclusion of such mains is indicated on the drawings. In the event that the pressure attributable to defective original workmanship and material, then the Contractor shall be entitled to additional payment for correcting the deficiencies.
- PAVING:**
- All subgrades and bases shall be proof-rolled and approved by the Engineering Division prior to base or binder installation.
 - Subgrade and proposed pavements shall be finished by the Excavation Contractor to within 0.1 foot plus or minus, of plan elevation.
 - The Paving Contractor shall ensure that the subgrade has been properly prepared and that the finished top of subgrade elevation has been graded within the tolerances allowed in these specifications. Unless the Paving Contractor advises the owner and engineer in writing prior to fine grading for base course construction, it is understood that the Contractor has approved and accepts responsibility for the subgrade.
 - For the purpose of providing handicap accessibility and complying with the American Disability Act and City Standards, curbs shall be depressed at locations where public walks or pedestrian paths intersect curb lines at street intersections and other locations as directed.
 - 3/4 inch thick precast concrete curb and gutter shall be installed at designated intervals and at all P.C., P.T., curb returns and at the end of each pour. Alternate ends of the curb bars shall be greased and fitted with metal expansion tubes.
 - 3/4 inch thick fibre expansion joints shall be used in every case where the sidewalk coincides with the curb and gutter. Contraction joints shall be saw cut at designated intervals in the curb. The cost of these joints shall be considered as incidental to the cost of the curb.
 - All poured in place concrete curb and gutter shall incorporate two (2) No. 4 reinforcing bars installed wherever the curb and gutter crosses utility service lines, the cost of which shall be considered incidental to the cost of concrete curb and gutter.
 - Sidewalks (where required) shall be of the thickness and dimensions as shown in the construction plans. All sidewalk concrete shall be a minimum of 6.1 bag mix (or 100T class SI concrete) and shall develop a minimum of 3,500 psi compressive strength at twenty eight (28) days. Contraction joints shall be set at four (4) foot centers, and one-half inch (1/2 inch) precast fibre expansion joints at forty (40) foot centers and where the sidewalk meets the curb or another sidewalk, or at the end of each pour. All sidewalks constructed over utility trenches and/or abutting driveway aprons shall be reinforced with three (3) No. 4 reinforcing bars (10 foot minimum length).

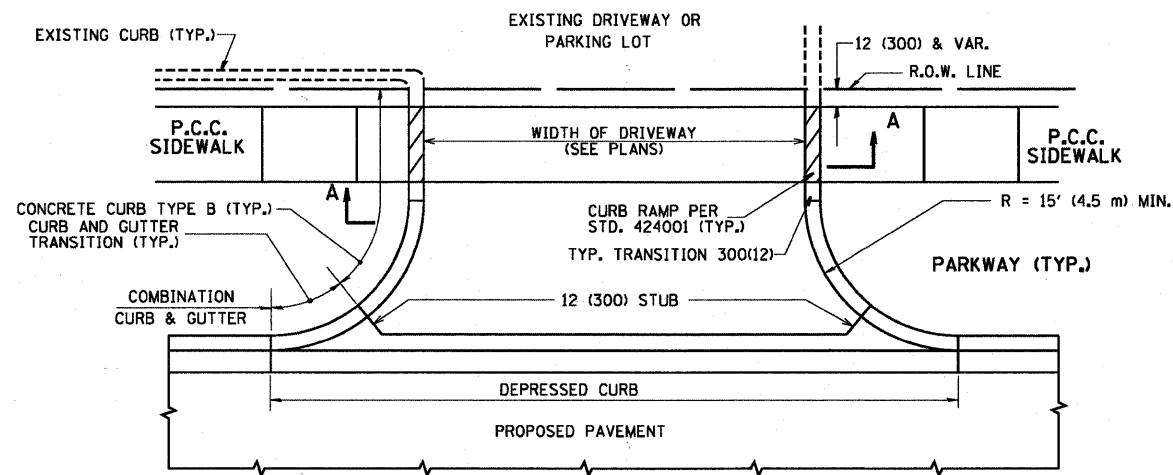
Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: STANDARD NOTES AND SPECIFICATIONS

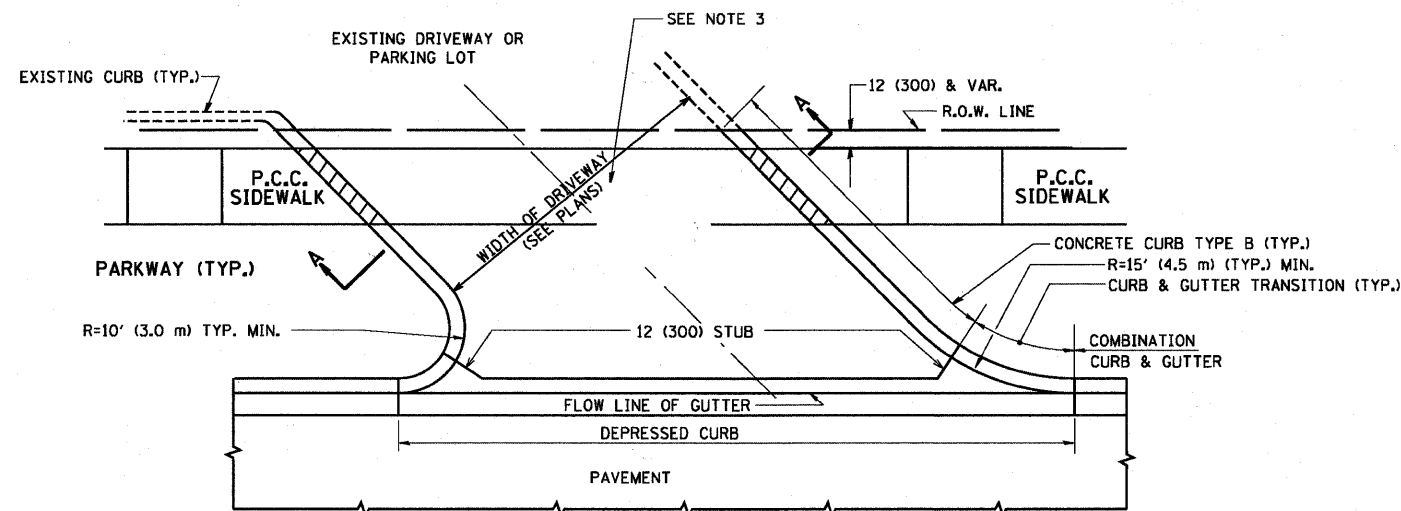
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Date: 6/1/2007
Drawn: EM
Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

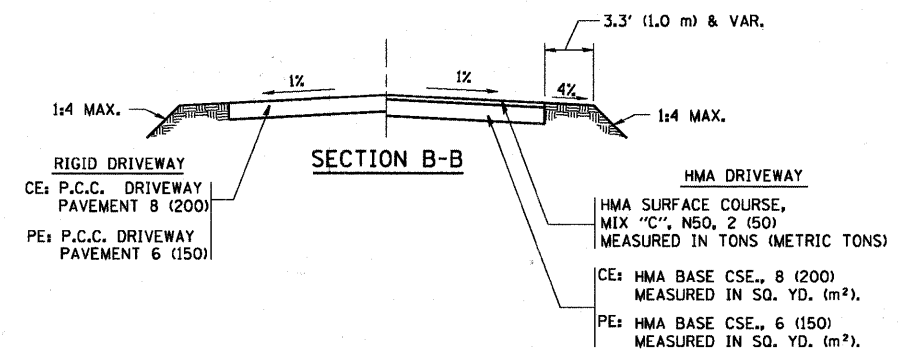
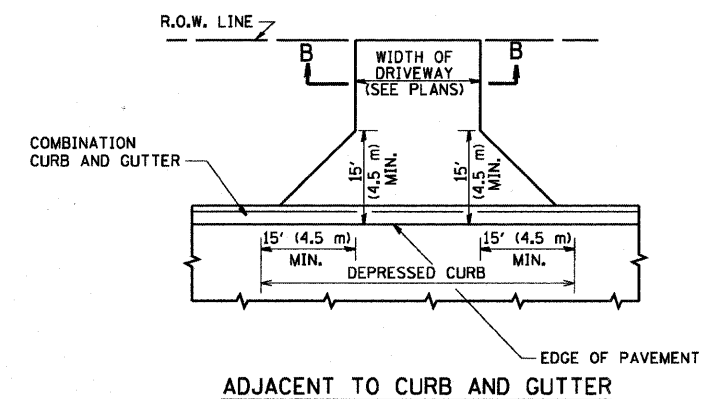
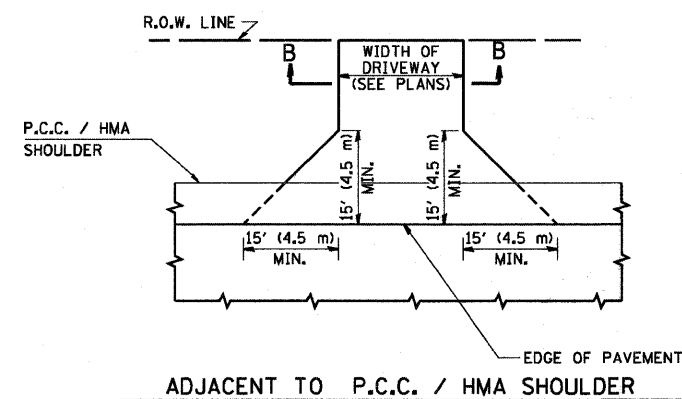
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	PLOT SCALE = 20.0000 // IN.	CHECKED - JP	REVISED -							ILLINOIS FED. AID PROJECT		
	PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -									



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

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

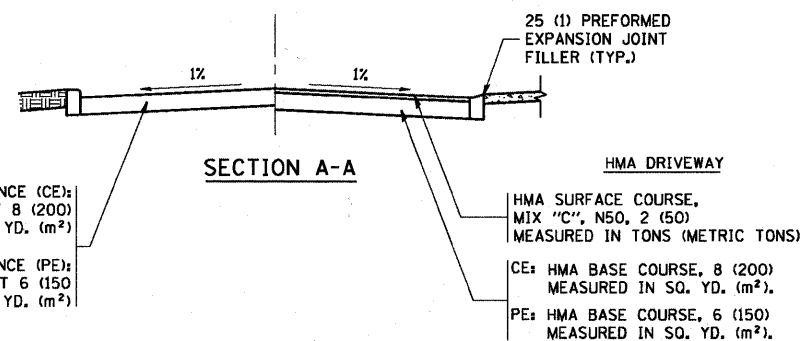
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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

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

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



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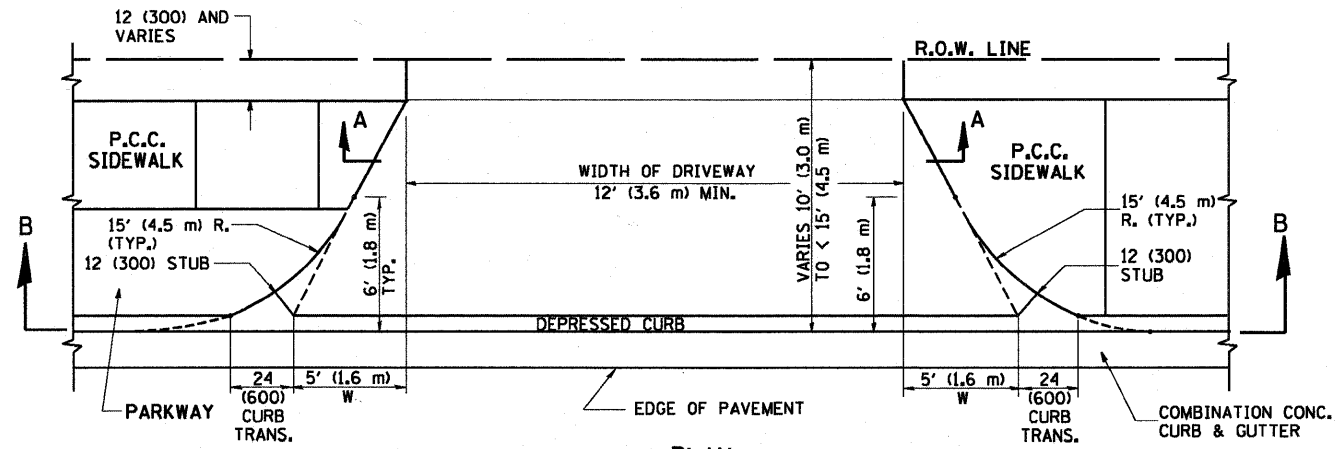
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PLOT DATE = 6/12/2008

DESIGNED - R. SHAH
DRAWN -
CHECKED -
DATE - 11-04-95
REVISED - M. GOMEZ 04-06-01
REVISED - P. LoFLUER 04-15-03
REVISOR - R. BORO 01-01-07
REVISED - R. BORO 06-11-08

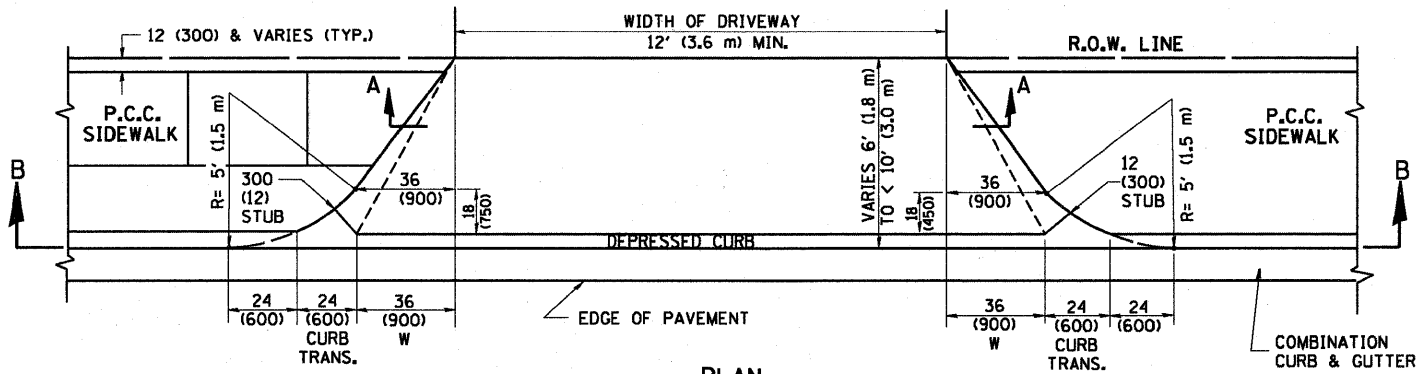
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

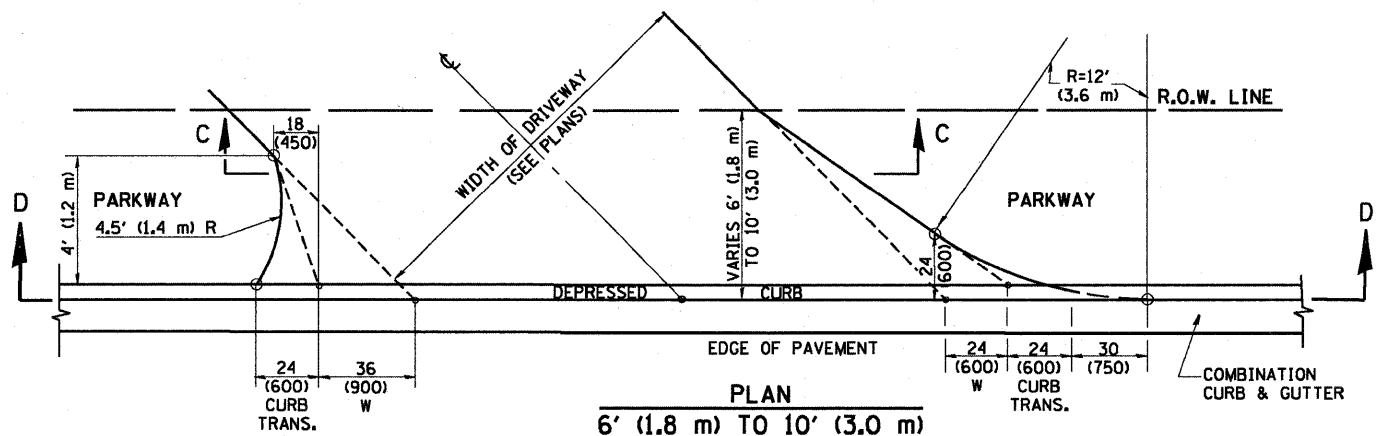
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	37
BD0156-07 (BD-01)		CONTRACT NO. 63524		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



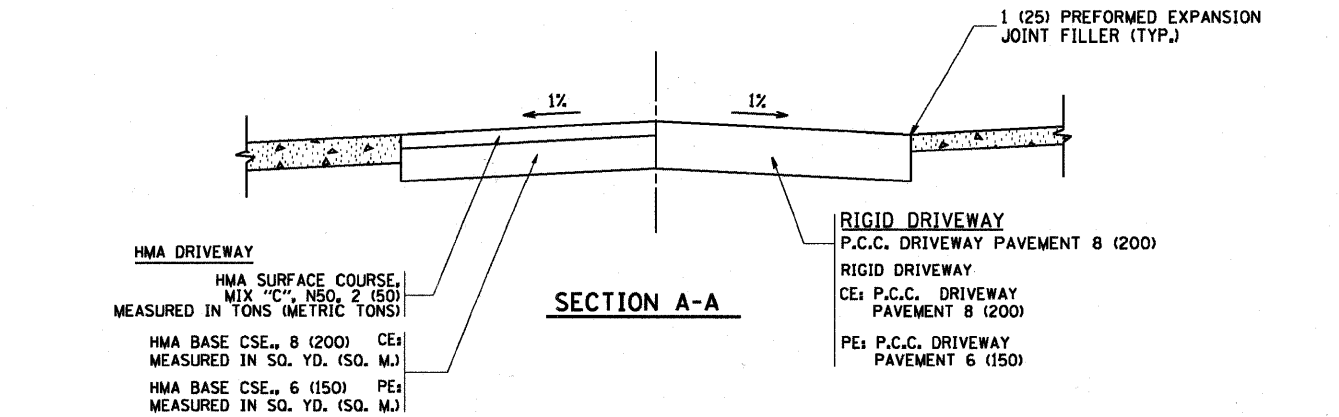
PLAN
10' (3.0 m) TO < 15' (4.5 m)



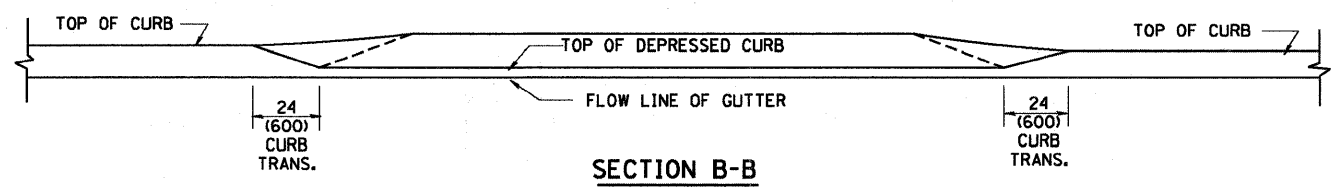
PLAN
6' (1.8 m) TO < 10' (3.0 m)



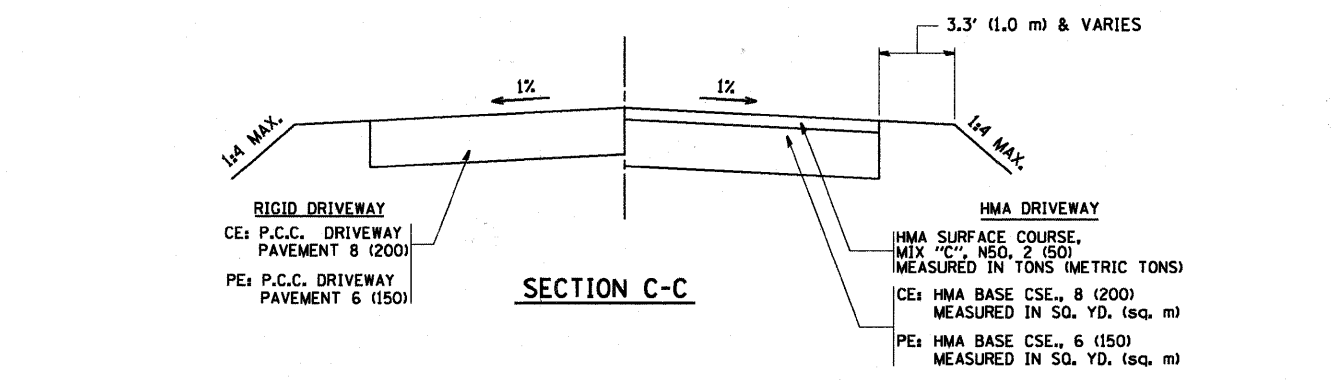
PLAN
6' (1.8 m) TO 10' (3.0 m)



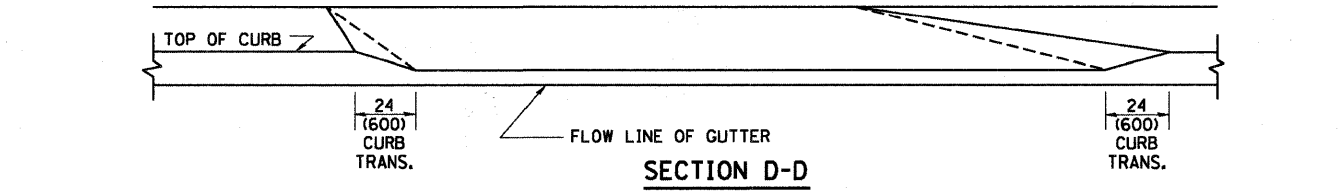
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

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

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

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

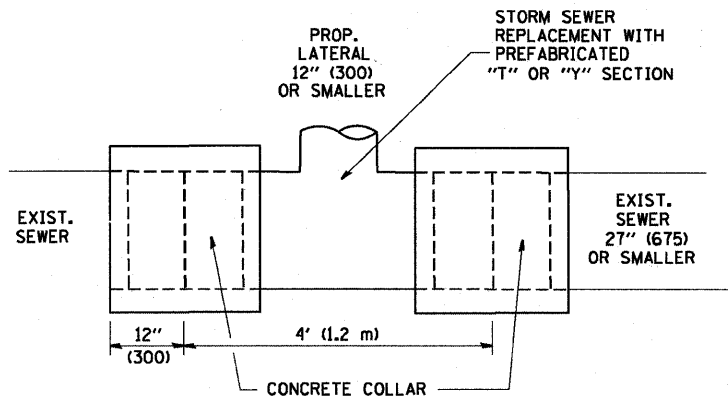
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

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

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

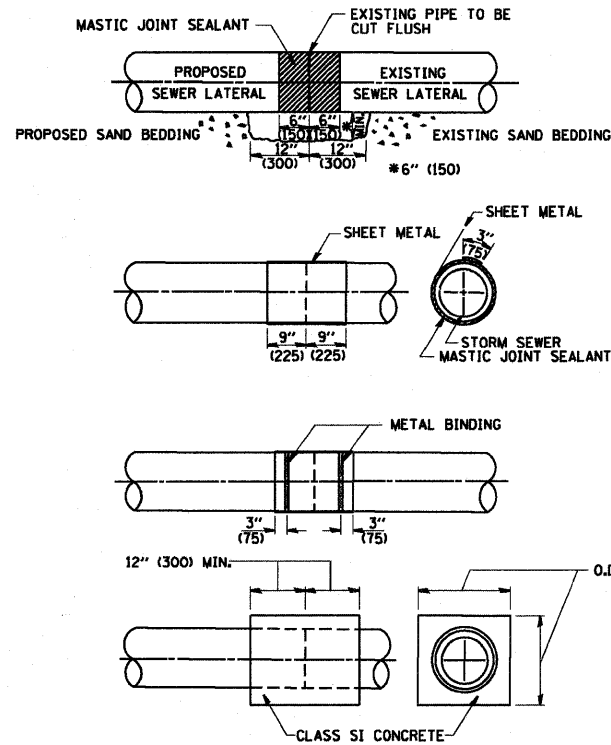
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME = W:\diststd\22x34\bd02.dgn	USER NAME = gegl1enob	DESIGNED - R. SHAH	REVISED - T. HOLTZ 04-08-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - M. GOMEZ 04-06-01		DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			116	06-00104-01-WR	MCHENRY	64	38
		PLOT SCALE = 50.0000' / IN.	CHECKED - P. LCFLEUR 04-15-03		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BD400-02 (BD-02) CONTRACT NO. 63524				
		PLOT DATE = 1/4/2008	DATE - 11-06-95		REVISED - R. BORO 01-01-07	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

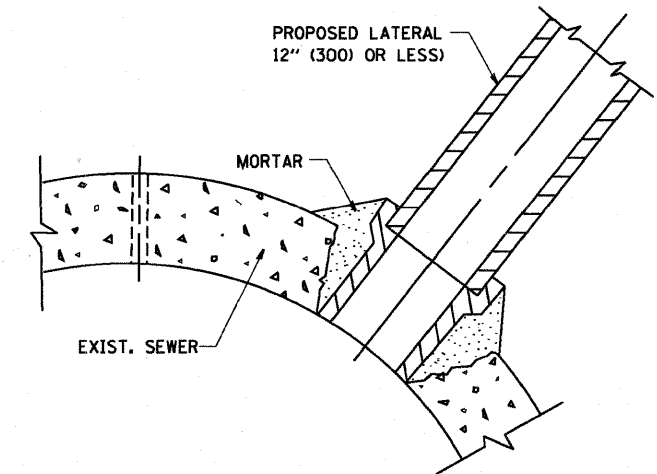


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 L1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

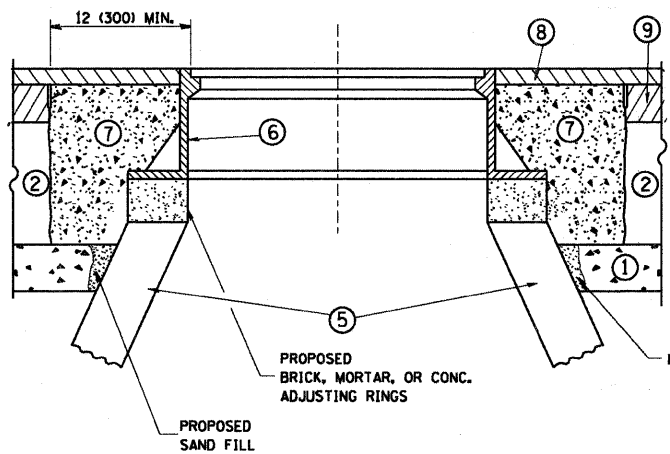
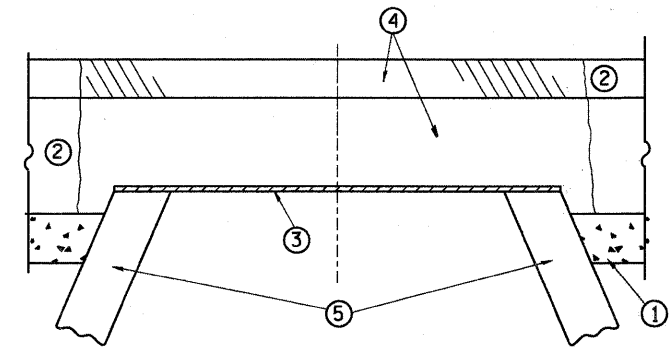
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

FILE NAME = W:\dstato\22x34\bd07.dgn	USER NAME = gogionobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / 1" IN.	DRAWN -	REVISED - R. SHAH 09-09-94			116	06-00104-01-WR	MCHENRY	64	39
	PLOT DATE = 1/4/2006	CHECKED -	REVISED - R. SHAH 10-25-94			BD500-01 (BD-7)		CONTRACT NO. 63524		
		DATE - 07-25-90	REVISED - R. SHAH 06-12-96			SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

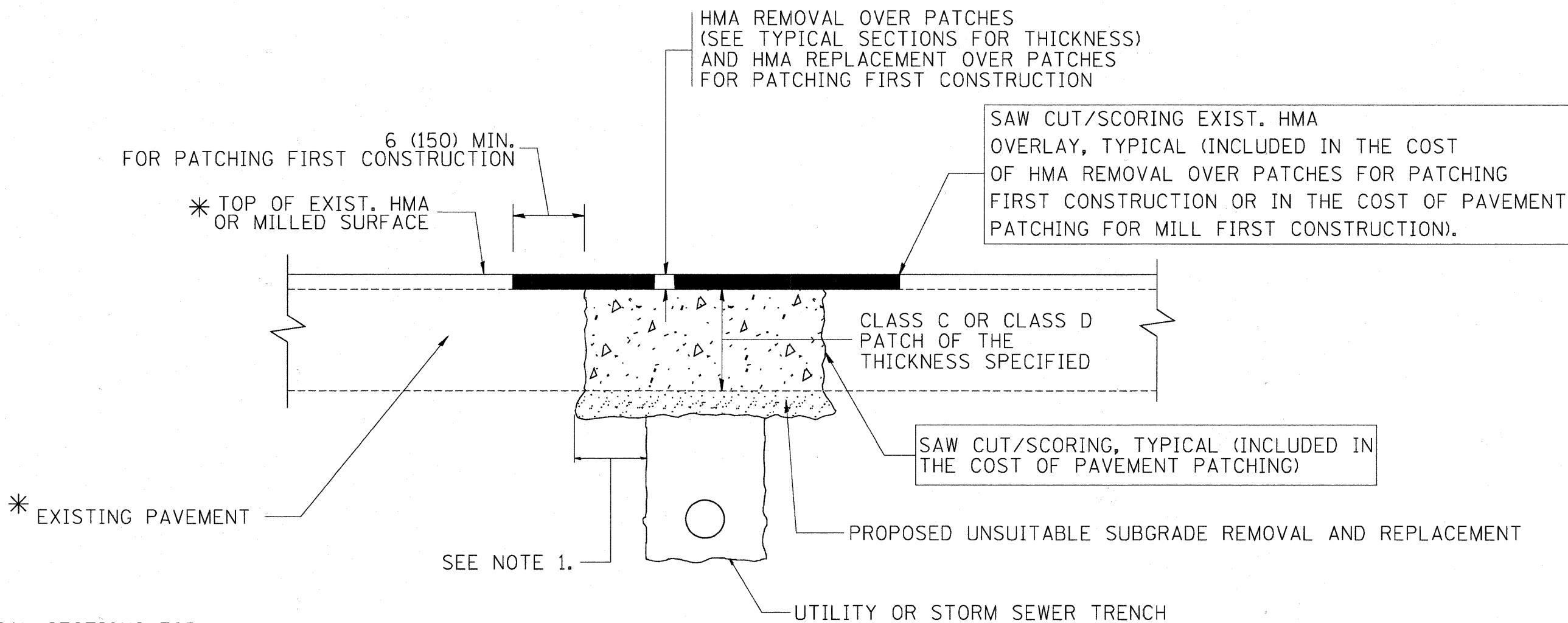
BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\diststd\22x34\bd88.dgn	USER NAME = gegl.enobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.0000 ' / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	116	06-00104-01-WR	MCHENRY	64	40
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. WIEDEMAN 05-14-04					BD600-03 (BD-8)		CONTRACT NO. 63524		
		DATE - 10-25-94	REVISED - R. BORO 01-01-07					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

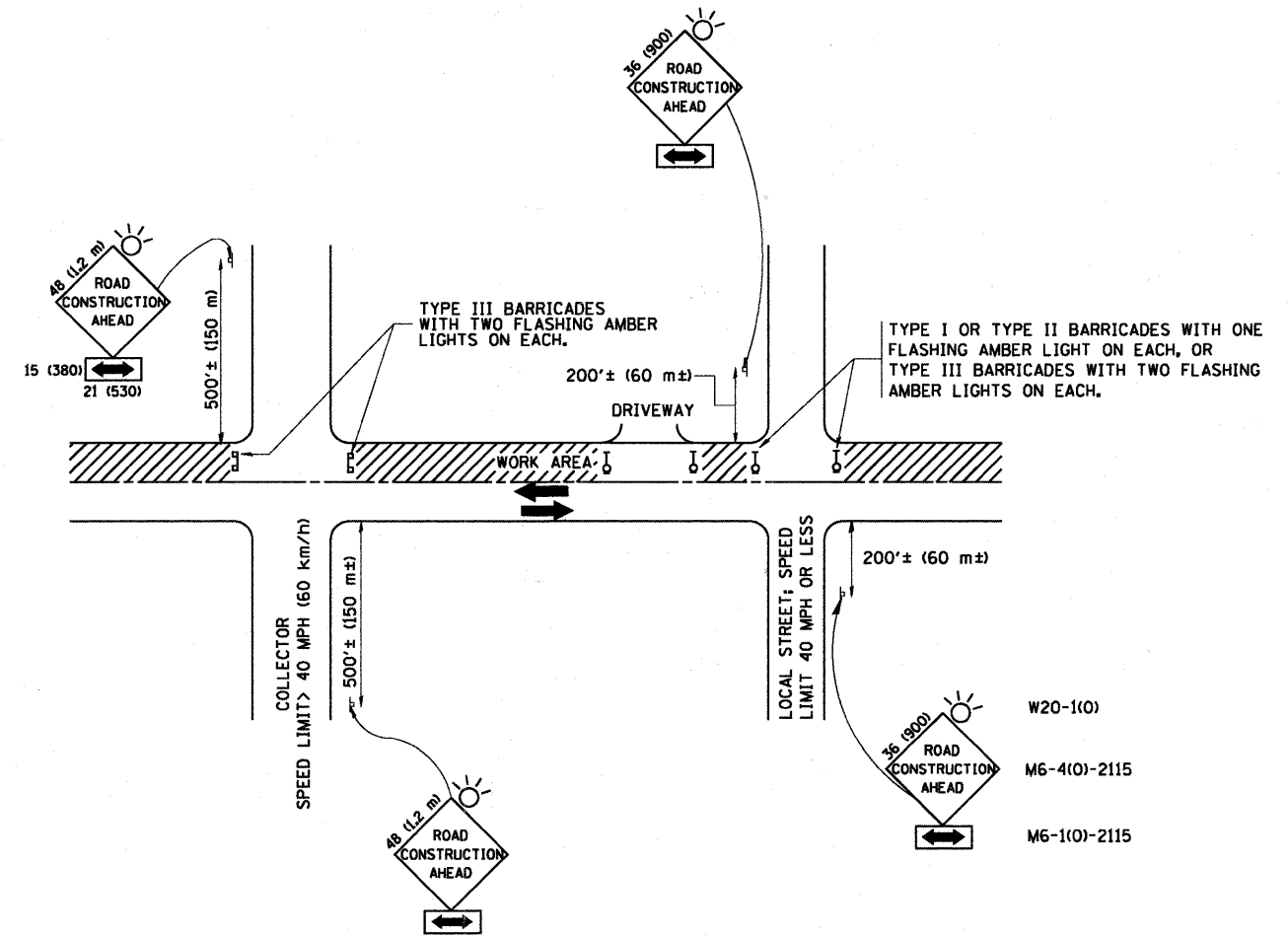
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = c:\projects\distatd22x34\bd22.dgn	USER NAME = bouerd1	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07		116	06-00104-01-WR	MCHENRY	64	41			
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 63524				
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

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

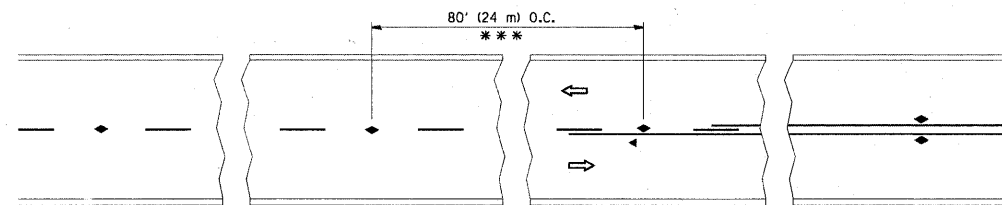
All dimensions are in millimeters (inches) unless otherwise shown.

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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

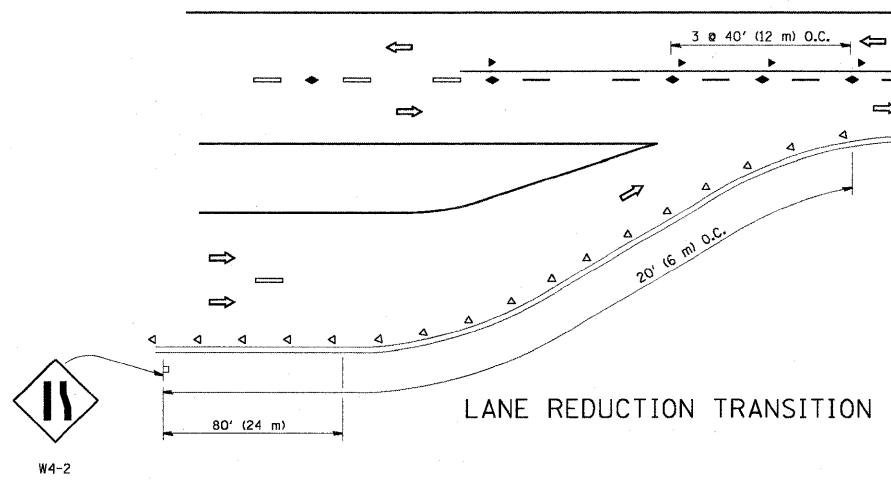
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	42
TC-10			CONTRACT NO. 63524	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

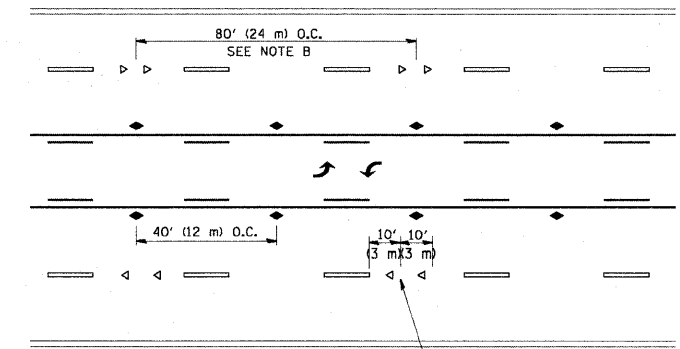


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

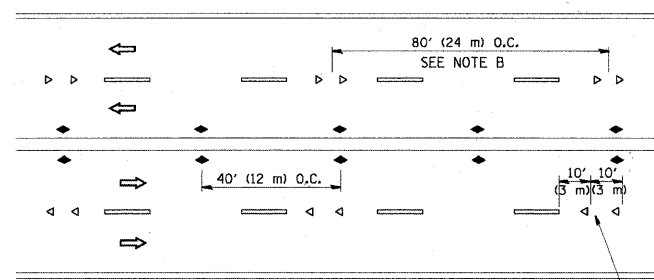
TWO-LANE/TWO-WAY



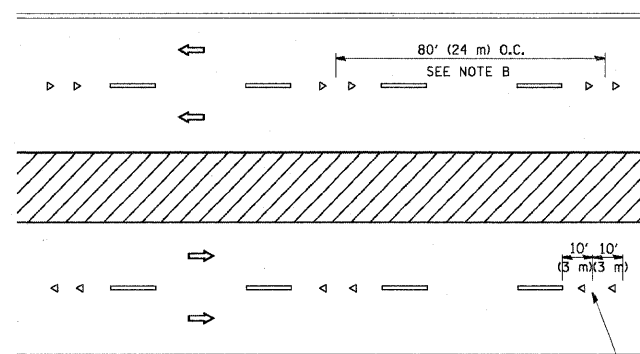
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

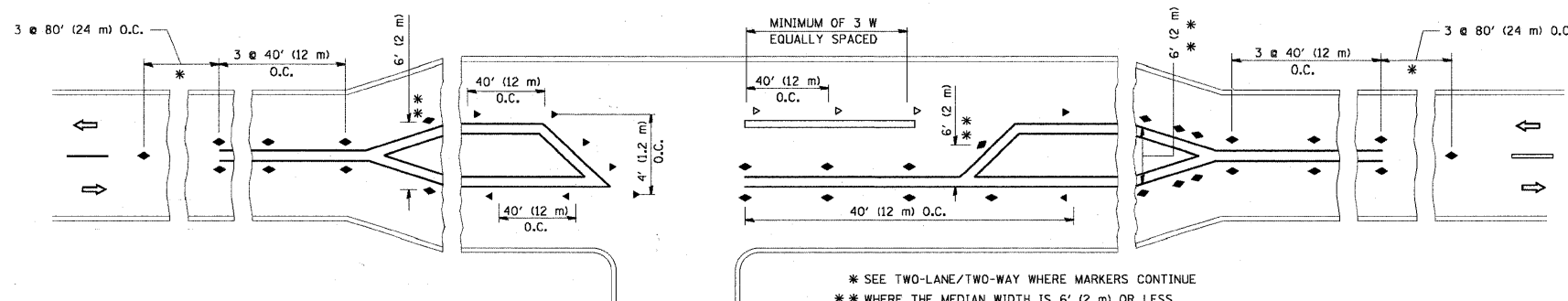
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR 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.



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

LEFT TURN

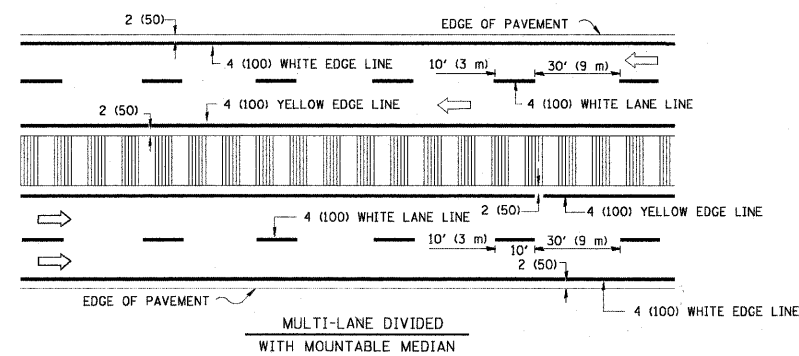
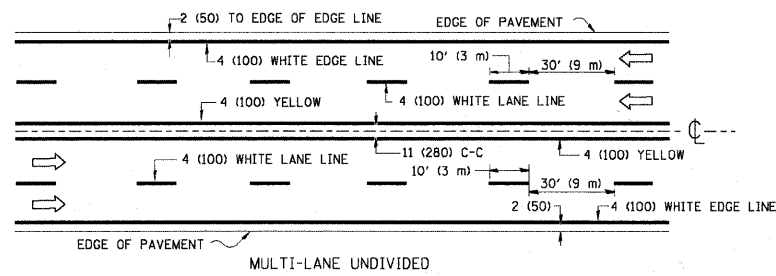
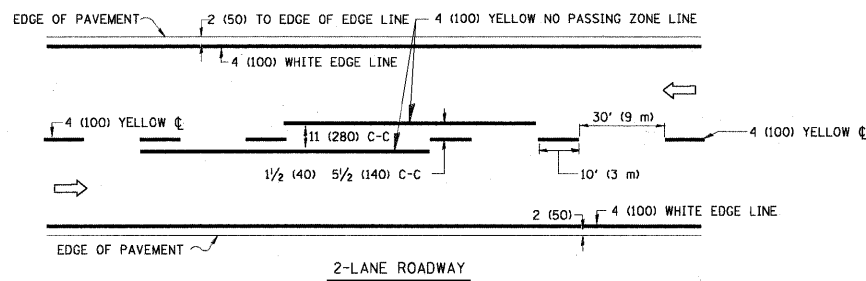
All dimensions are in Inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drvskosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
o:\p\work\p\dot\drvskosgn\d0188315\td	1.dgn	DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50,000 / / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

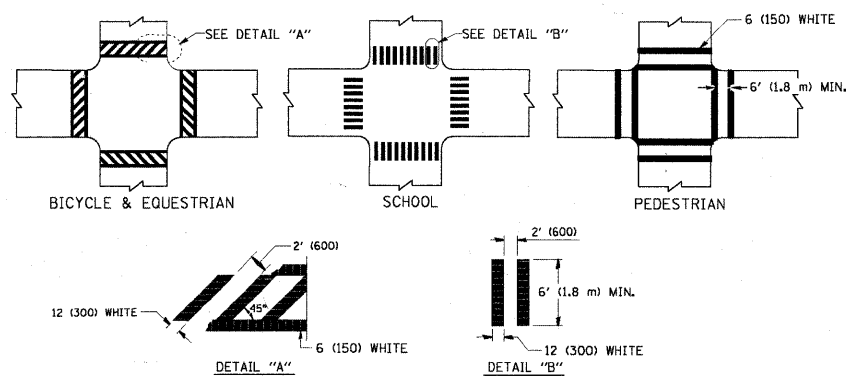
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	43
TC-11			CONTRACT NO. 63524	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

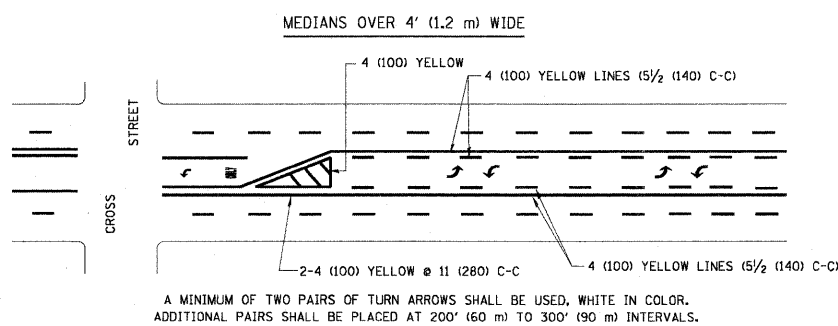
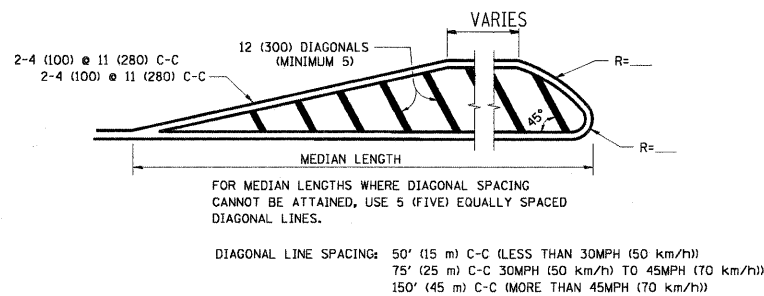
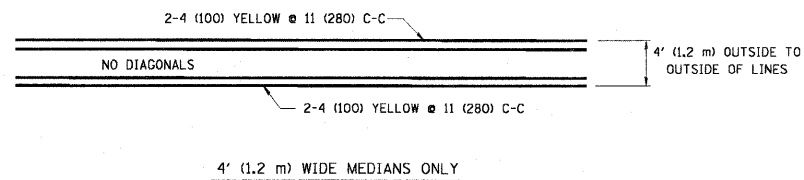


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

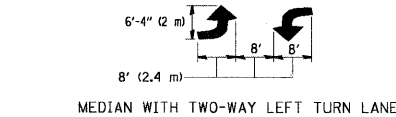
TYPICAL LANE AND EDGE LINE MARKING



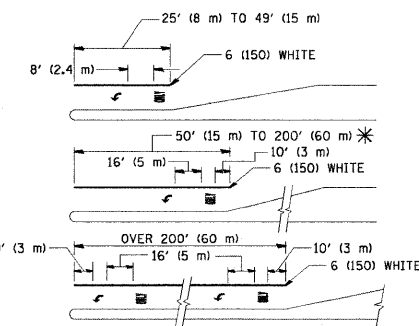
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING

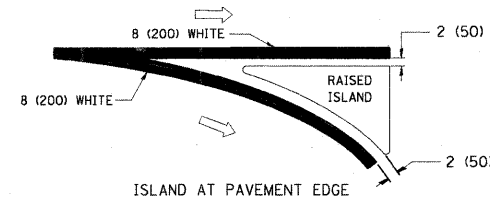
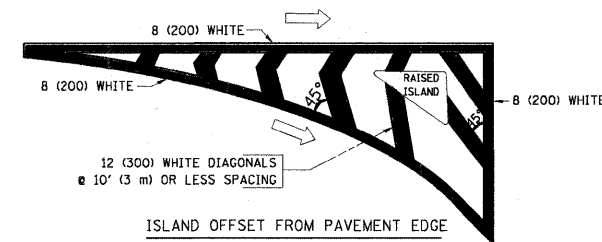


TYPICAL LEFT (OR RIGHT) TURN LANE



* 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



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 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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

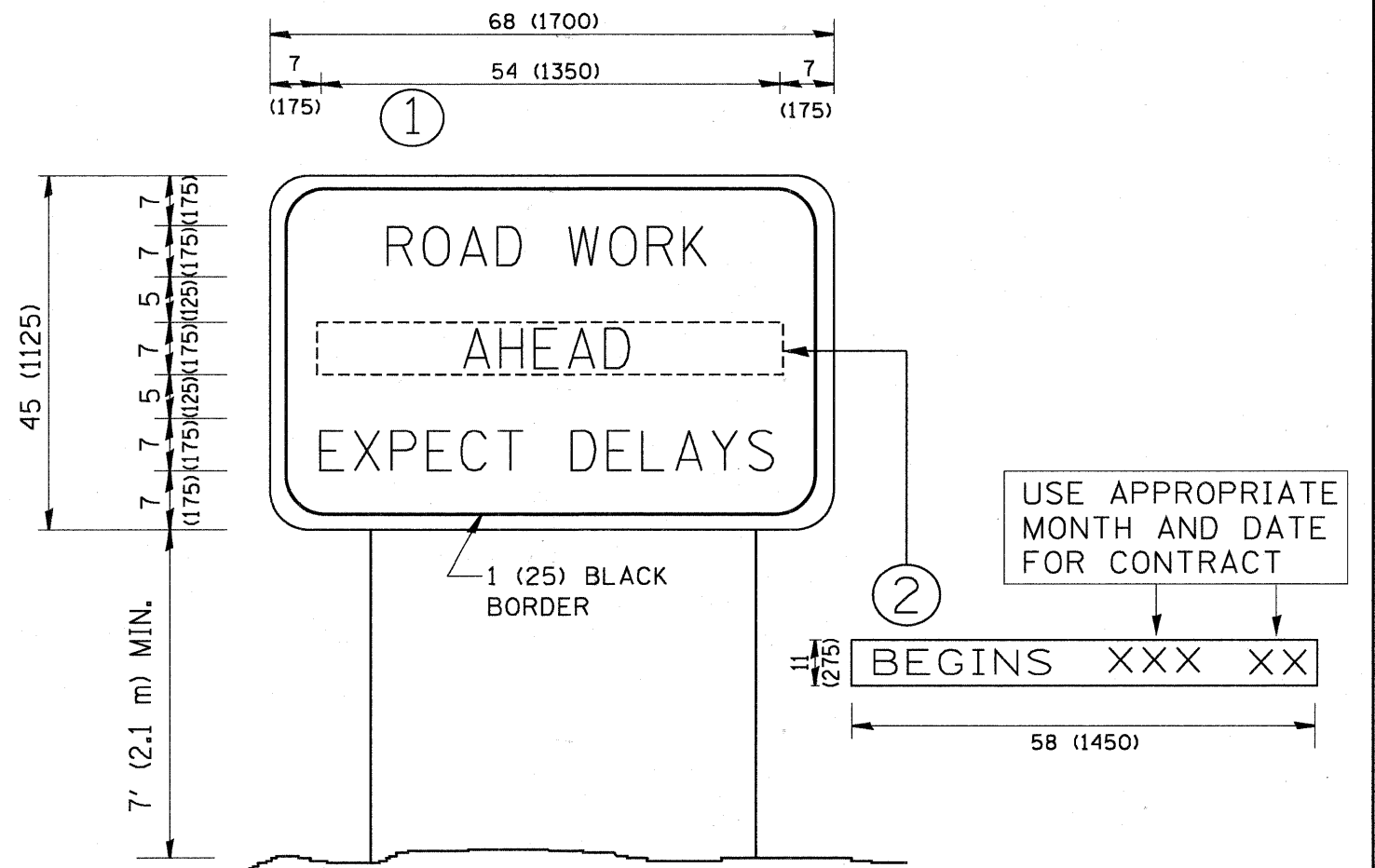
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		CHECKED -	REVISED -
		DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	44
TC-13		CONTRACT NO. 63524		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



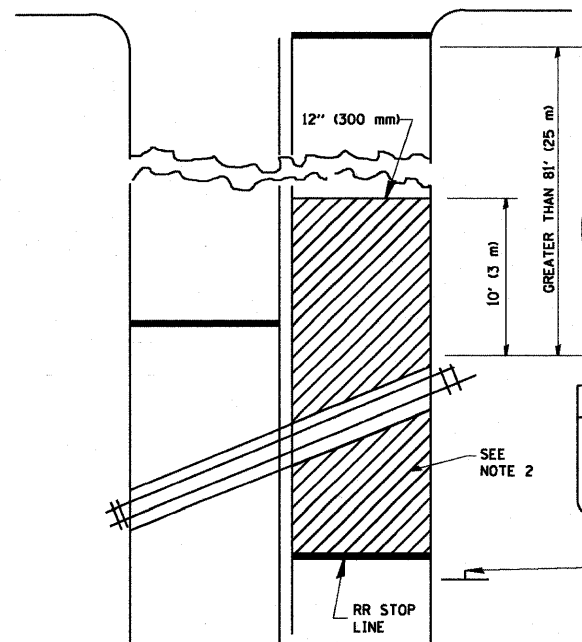
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

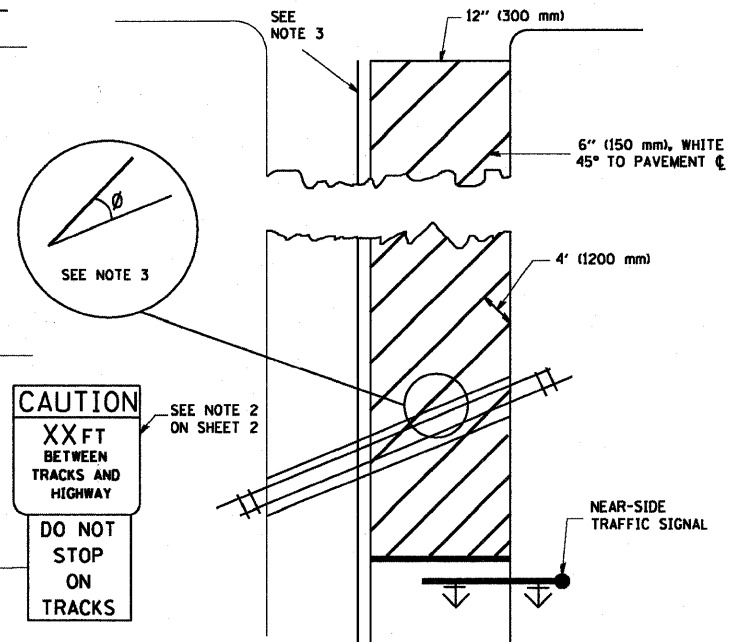
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		116	06-00104-01-WR	MCHENRY	64	45			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		TC-22			CONTRACT NO. 63524				
	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

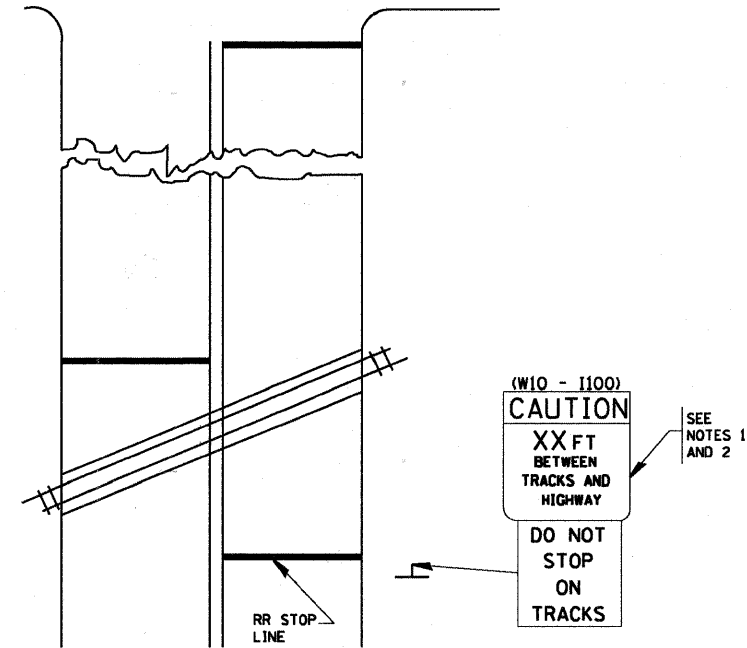
WITH INTERSECTION TRAFFIC SIGNALS



WITH NEAR-SIDE TRAFFIC SIGNALS



WITH NONSIGNALIZED INTERSECTION
81' (25 m) OR LESS TO CLOSEST RAIL



NOTES:

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
- WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK (Ø) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

NOTE 1

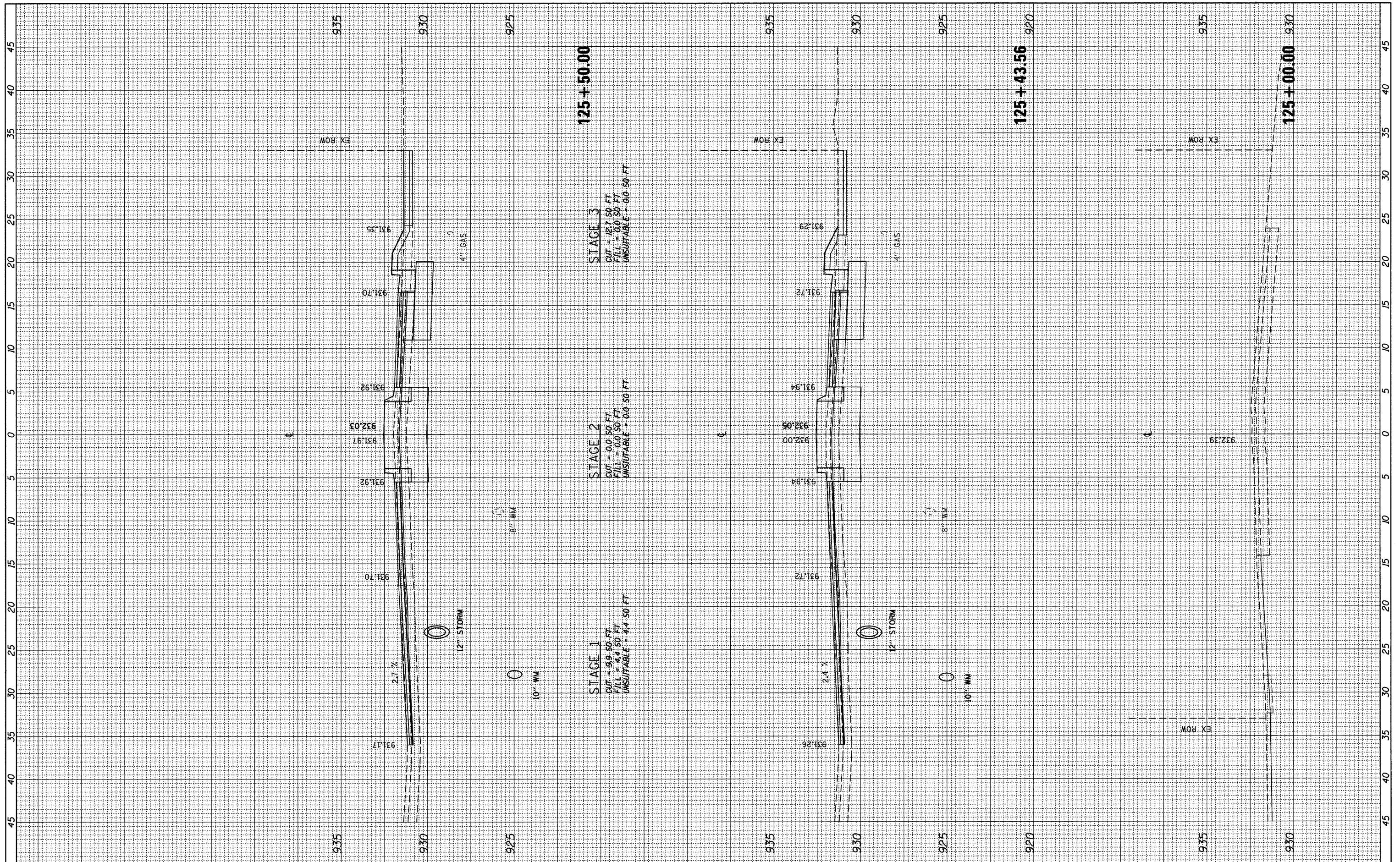
- DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

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

FILE NAME = W:\dists\td\22x34\to23.dgn	USER NAME = geglianobt	DESIGNED -	REVISED - 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	116	06-00104-01-WR	MCHENRY	64
PLOT DATE = 1/4/2008	DATE -	CHECKED -	REVISED -					TC-23		CONTRACT NO. 63524		
		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = gellwenger	DESIGNED - GJE	REVISED -
F:\789-006 East Crystal Lake Ave SEGMENT 1\CADD_Sheets\0163524-sht-xsec.dgn		DRAWN - GJE	REVISED -
PLOT SCALE = 5.0000' / IN.		CHECKED - JP	REVISED -
PLOT DATE = 2/17/2011		DATE - 02/17/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

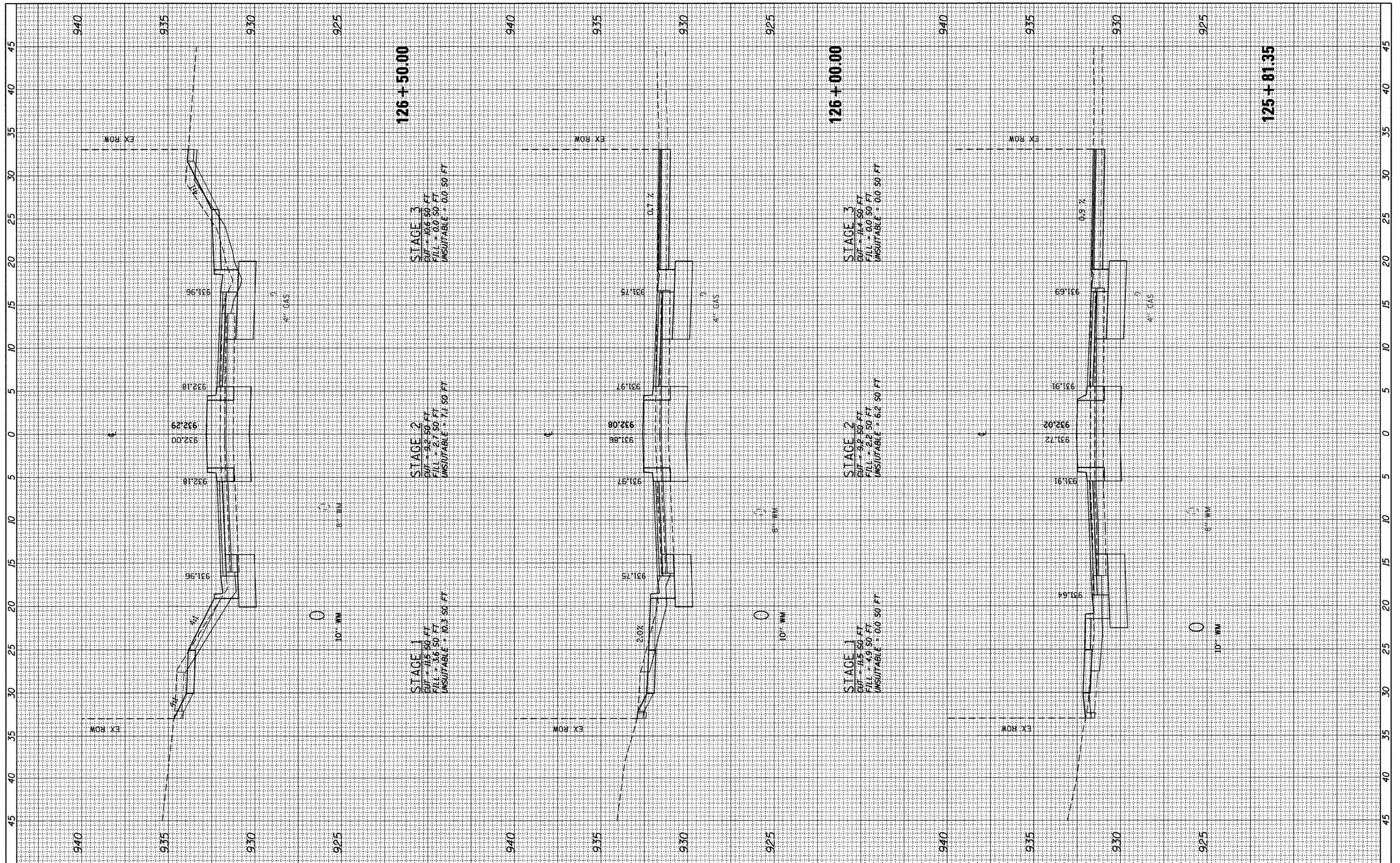
**EAST CRYSTAL LAKE AVENUE
CROSS SECTIONS**

HORZ. 1"=5'
SCALE: VERT. 1"=2.5' SHEET NO. 47 OF 64 SHEETS STA. 125+00.00 TO STA. 125+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63524	

FINAL SURVEY	DATE
NO. _____	_____
NO. _____	_____
NO. _____	_____
NO. _____	_____

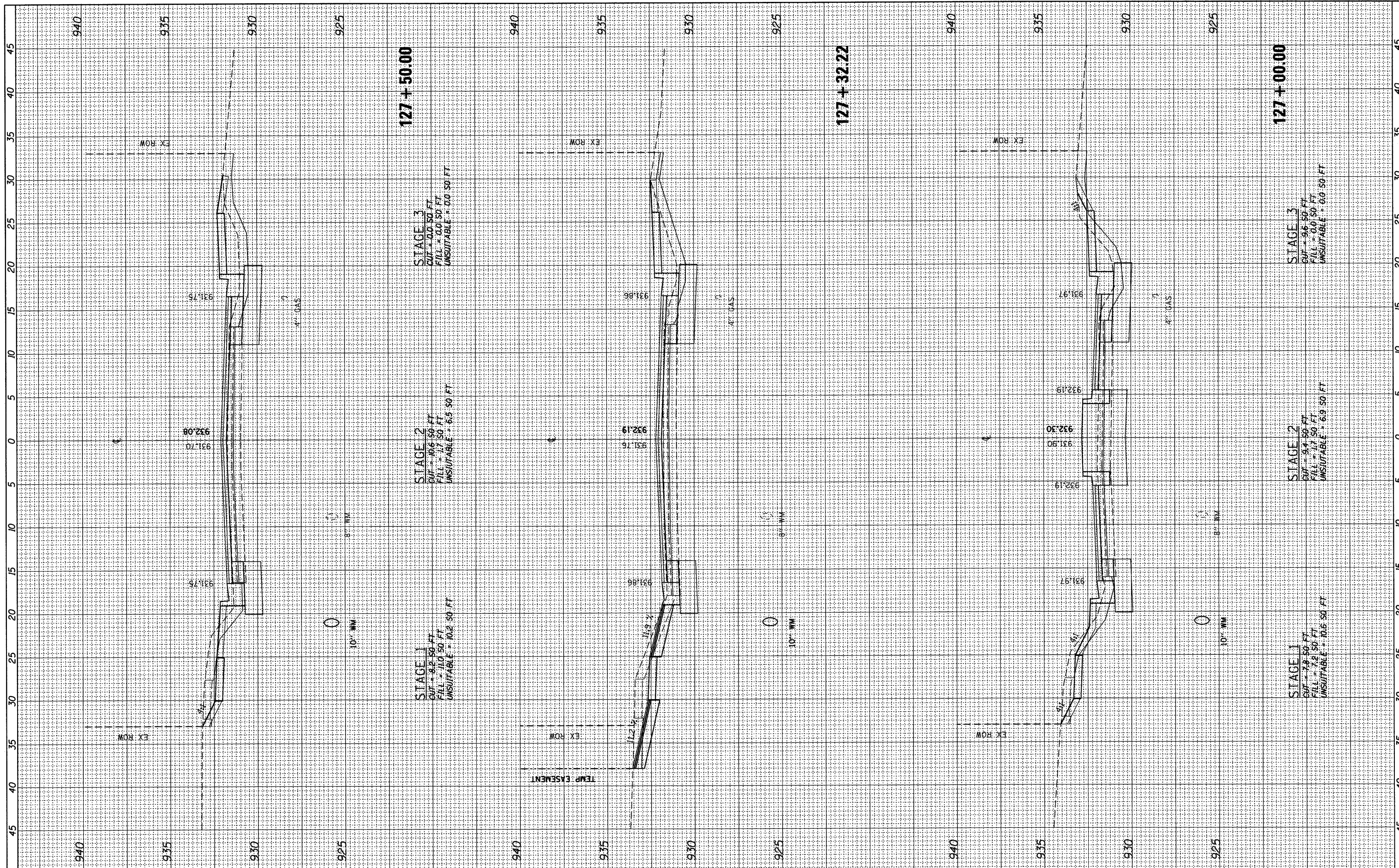
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NO. _____	_____
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NO. _____	_____



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PLOT SCALE = 5,00000' / IN.	CHECKED - JP	DATE - 02/7/2011	REVISED -			SCALE: VERT. 1"=2.5' SHEET NO. 48 OF 64 SHEETS	STA. 125+81.35 TO STA. 126+50.00	CONTRACT NO. 63524		ILLINOIS FED. AID PROJECT	
PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -	REVISED -								

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

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



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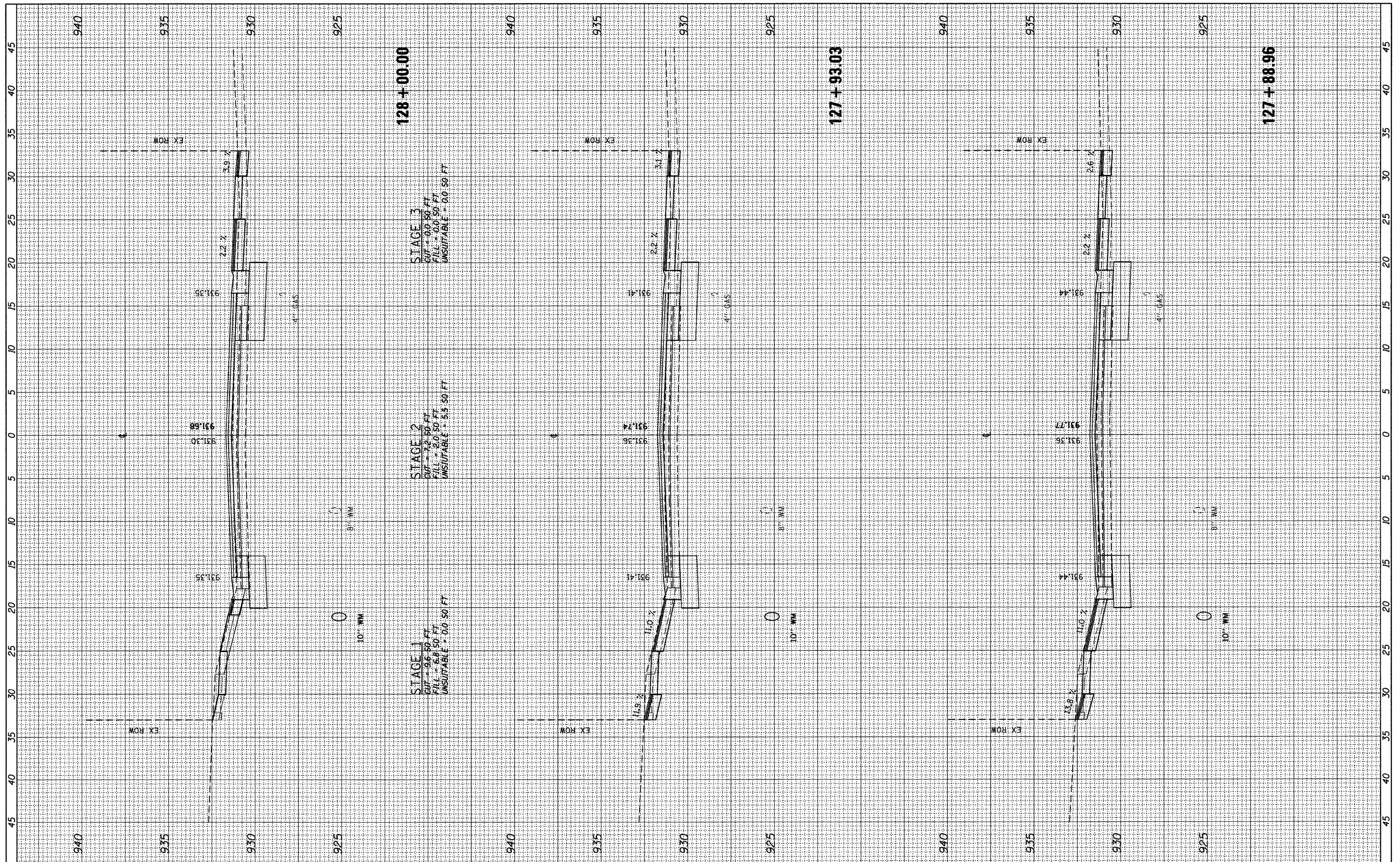
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST CRYSTAL LAKE AVENUE
 CROSS SECTIONS**
 HORZ. 1"=5'
 SCALE: VERT. 1"=2.5' SHEET NO. 49 OF 64 SHEETS STA. 127+00.00 TO STA. 127+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	49
			CONTRACT NO. 63524	
[ILLINOIS] FED. AID PROJECT				

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

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



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

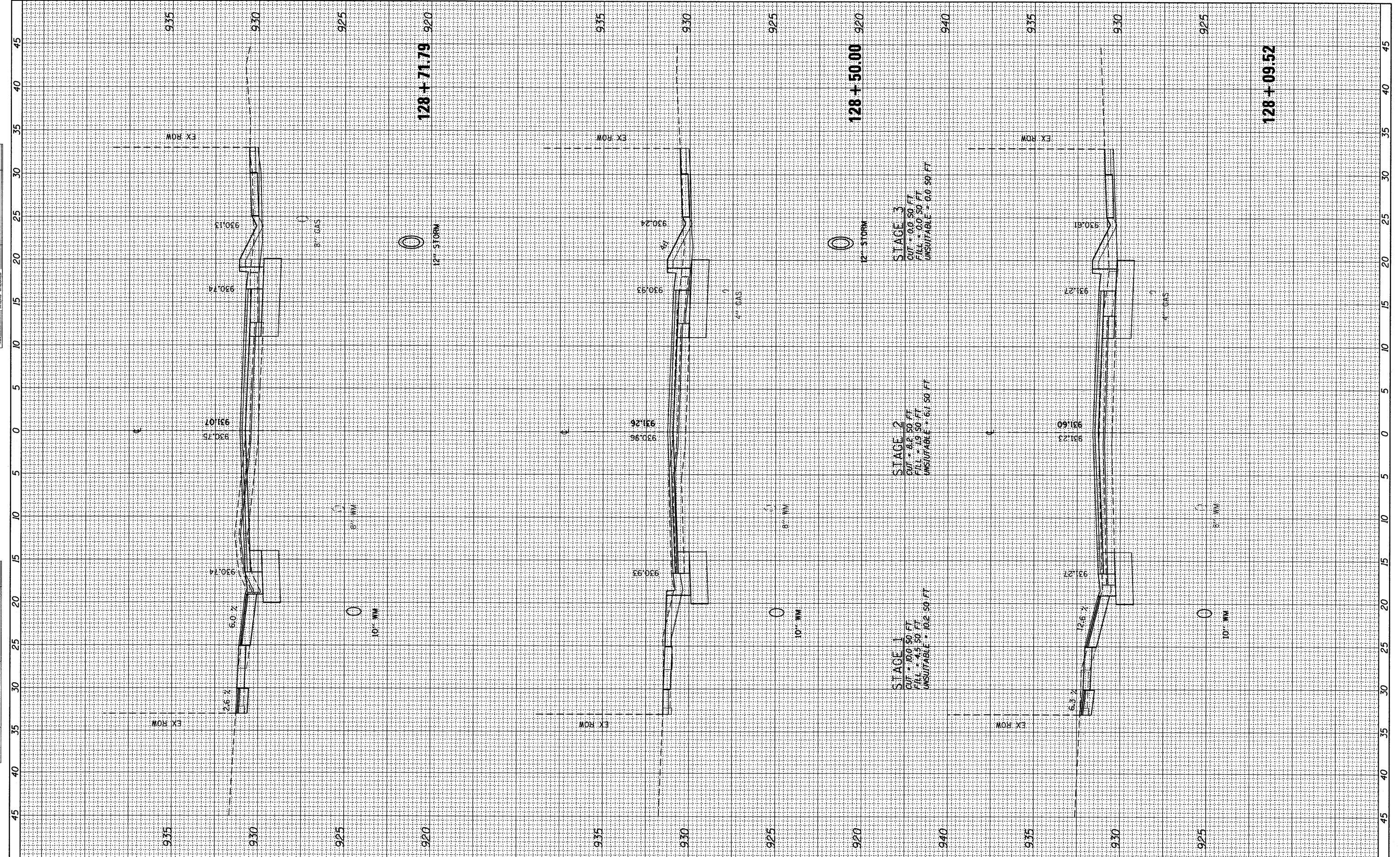
**EAST CRYSTAL LAKE AVENUE
CROSS SECTIONS**

HORZ. 1"=5'
SCALE: VERT. 1"=2.5' SHEET NO. 50 OF 64 SHEETS
STA. 127+88.96 TO STA. 128+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	50
				CONTRACT NO. 63524
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS	
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FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT 1\CADD_Sheets\163524-sht-xsec.dgn

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 PLOT DATE = 2/17/2011

DESIGNED - GJE
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 DATE - 02/17/2011

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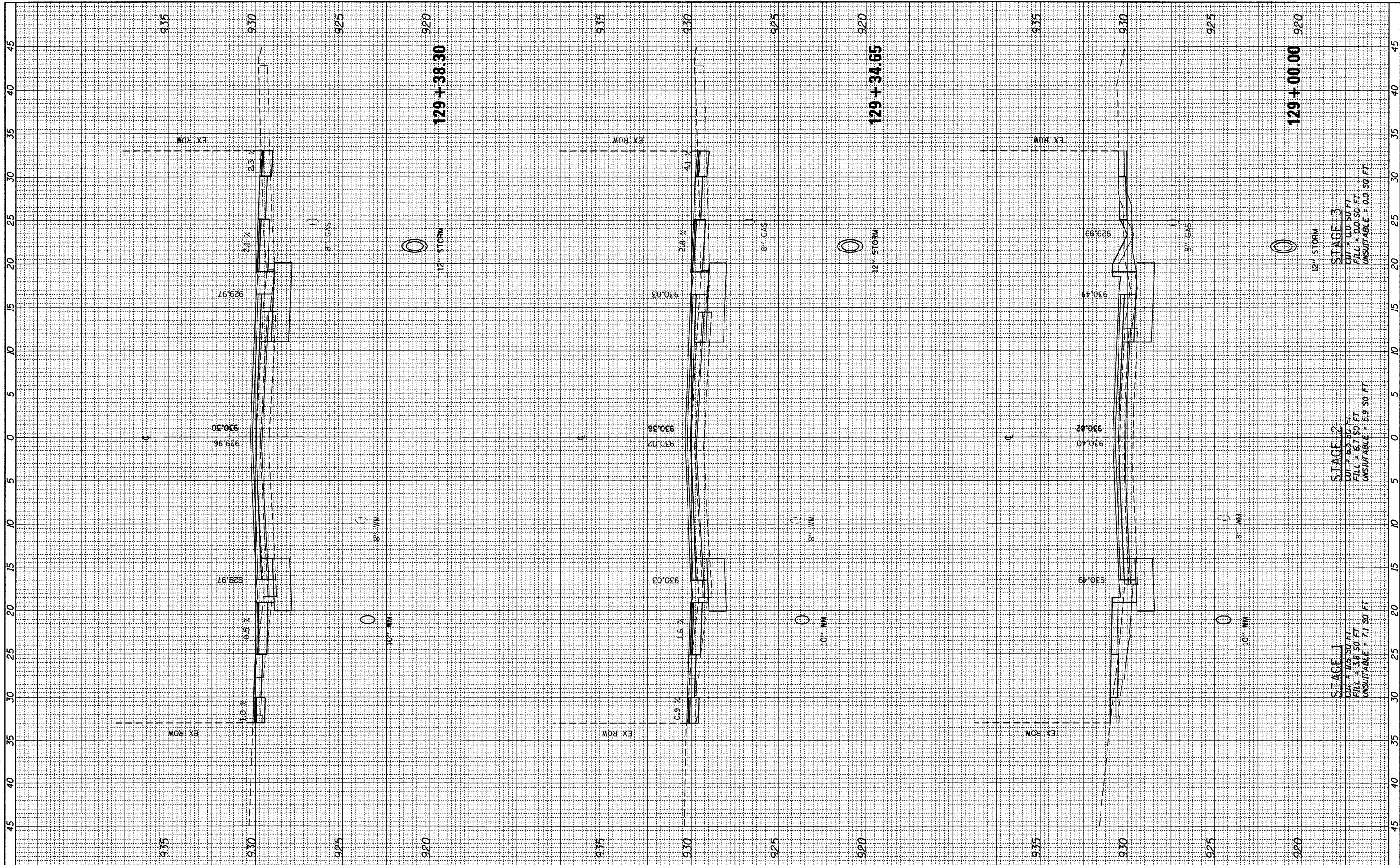
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST CRYSTAL LAKE AVENUE
 CROSS SECTIONS**
 HORZ. 1"=5'
 SCALE: VERT. 1"=2.5' SHEET NO. 51 OF 64 SHEETS STA. 128+09.52 TO STA. 128+71.79

F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY MCHENRY	TOTAL SHEETS 64	SHEET NO. 51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63524	

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

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



FILE NAME = F:\789-006 East Crystal Lake Ave SEGMENT 1\CADD_Sheets\163524-ah-t-xsec.dgn

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 CHECKED - JP
 DATE - 02/7/2011

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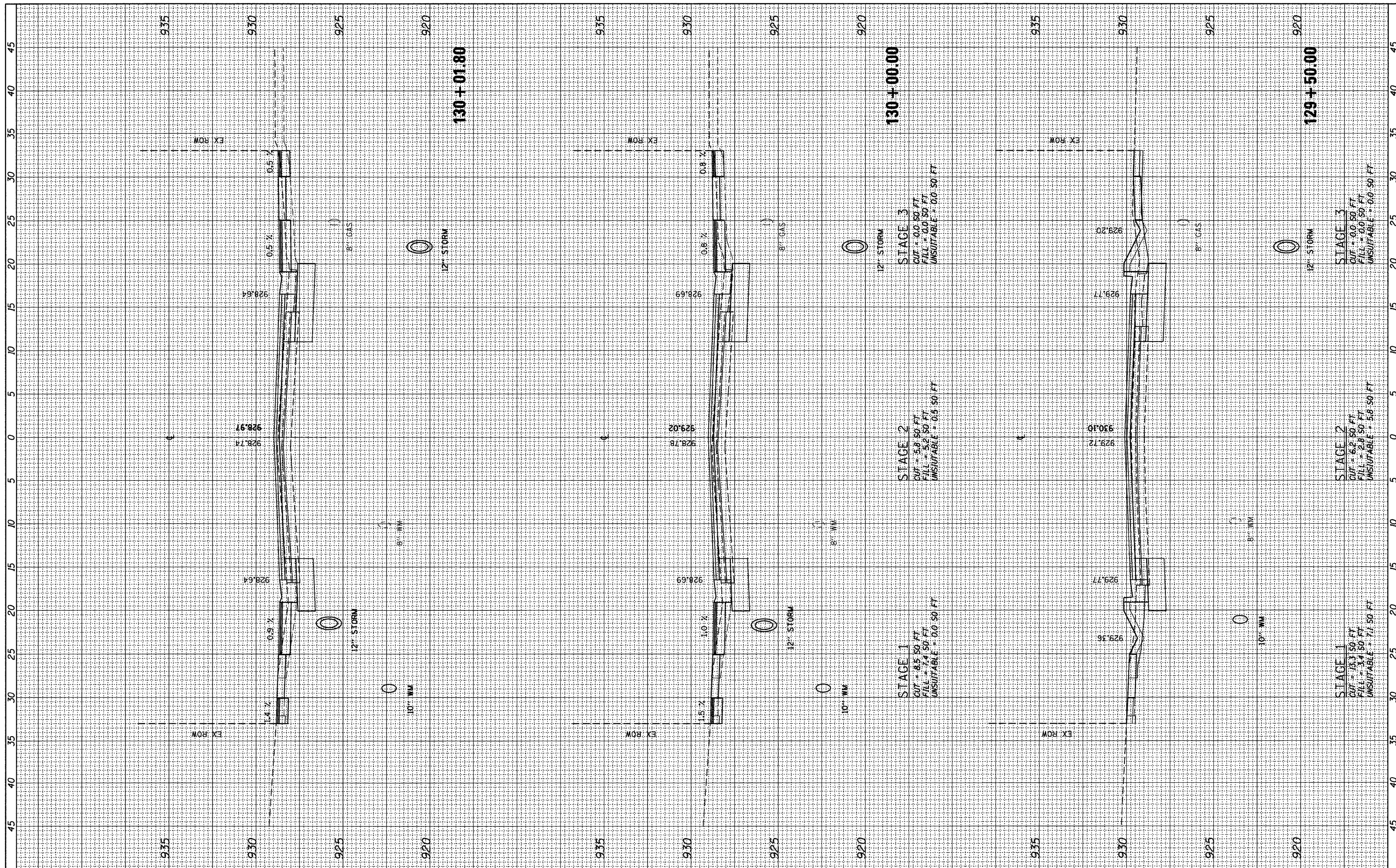
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST CRYSTAL LAKE AVENUE
 CROSS SECTIONS**
 HORZ. 1"=5'
 SCALE: VERT. 1"=2.5' SHEET NO. 52 OF 64 SHEETS STA. 129+00.00 TO STA. 129+38.30

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	52
			CONTRACT NO. 63524	
ILLINOIS FED. AID PROJECT				

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

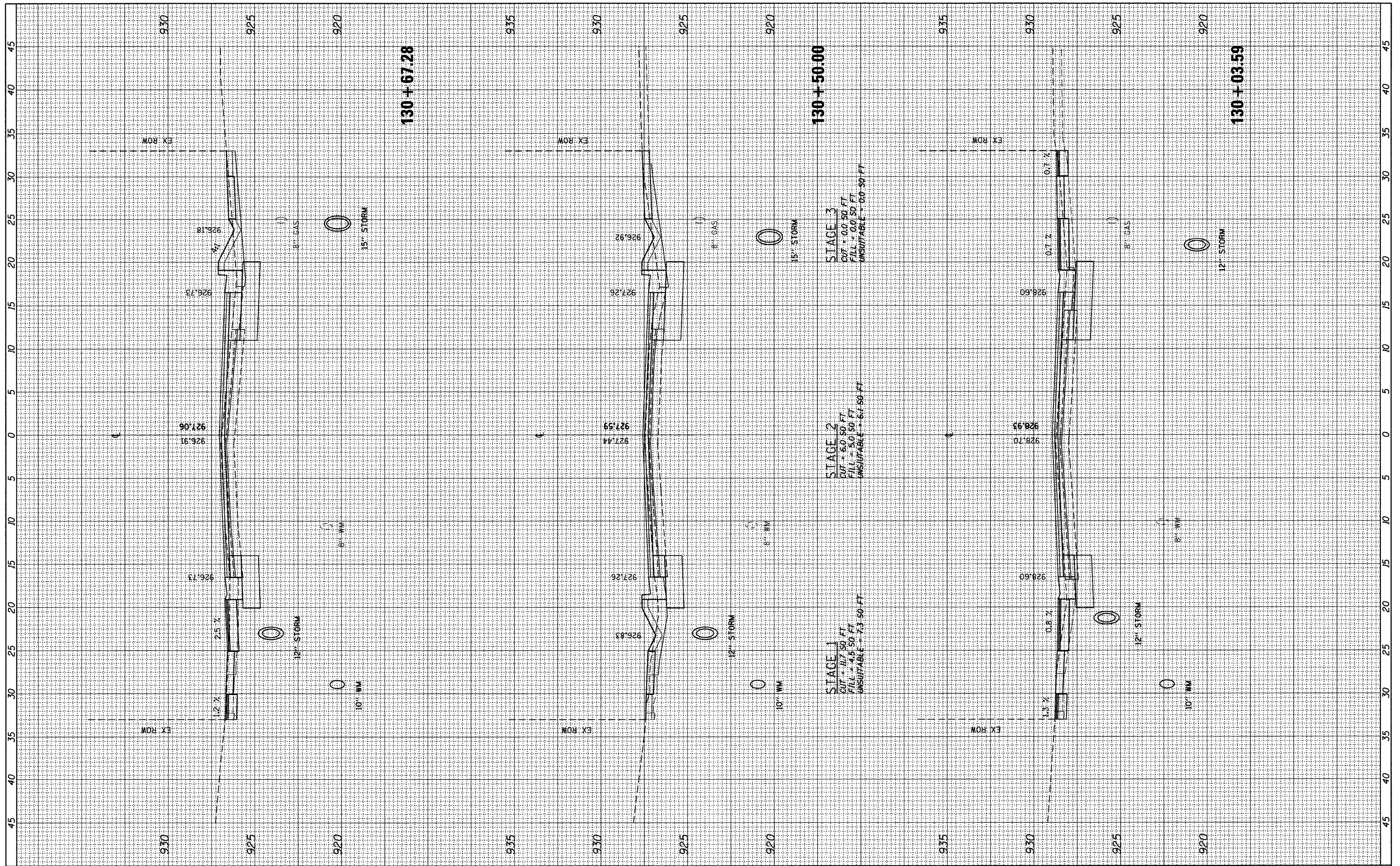
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		



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PLOT SCALE = 5,0000' / IN.	CHECKED - JP	DATE - 02/7/2011	REVISED -		CONTRACT NO. 63524				
PLOT DATE = 2/17/2011	DATE - 02/7/2011	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =	USER NAME = gellwenger
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PLOT SCALE = 5.0000' / IN.	DRAWN - GJE
PLOT DATE = 2/17/2011	CHECKED - JP
	DATE - 02/7/2011

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

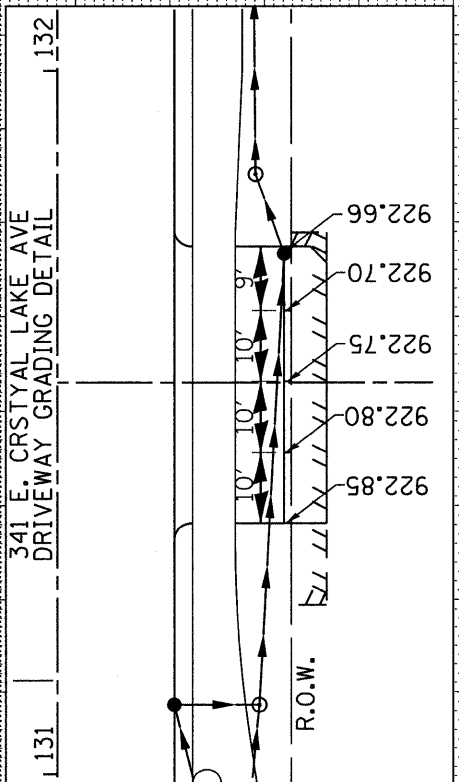
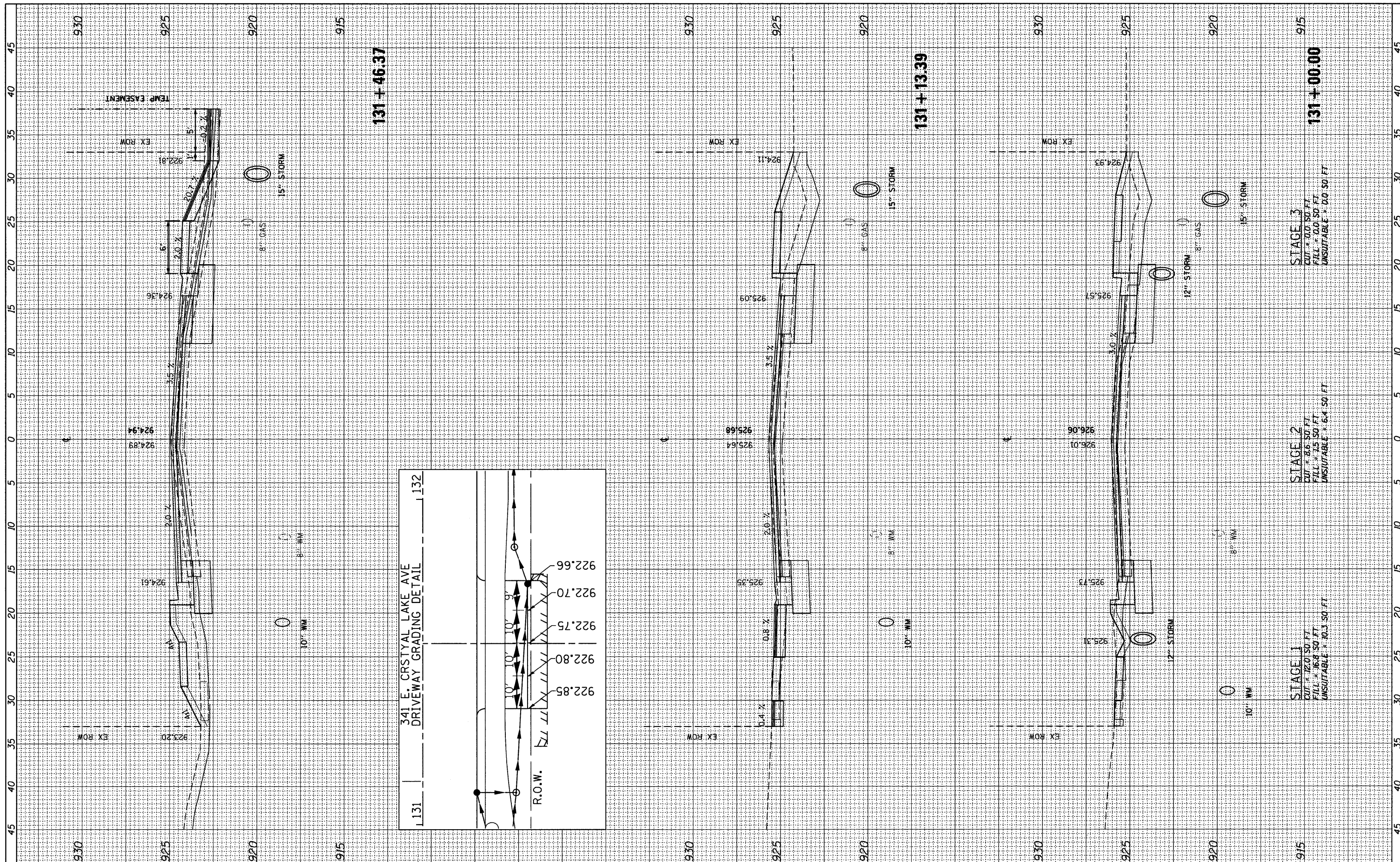
**EAST CRYSTAL LAKE AVENUE
CROSS SECTIONS**

HORZ. 1"=5'
SCALE: VERT. 1"=2.5' SHEET NO. 54 OF 64 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	54
CONTRACT NO. 63524			ILLINOIS FED. AID PROJECT	

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

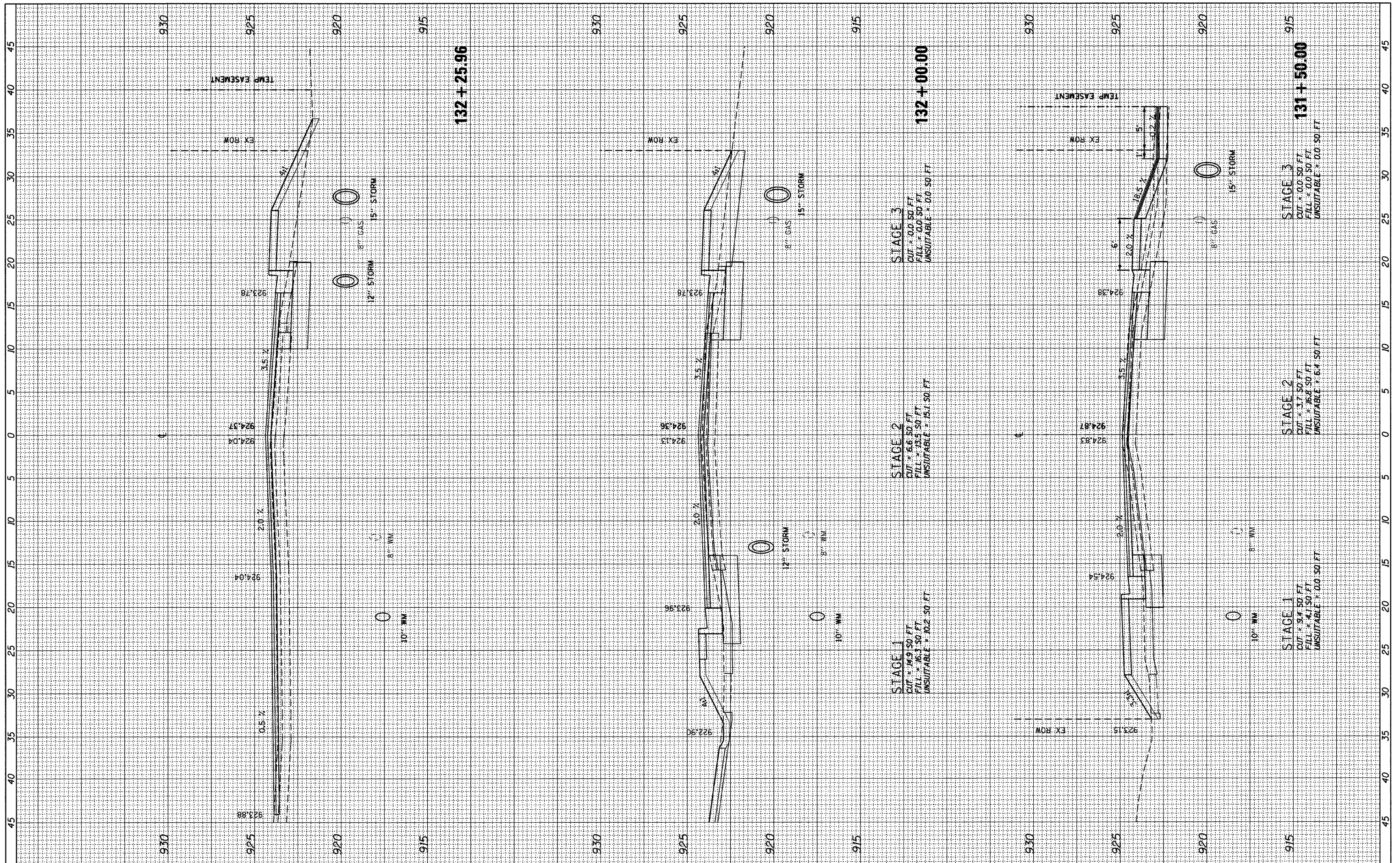
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



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PLOT SCALE = 5.0000' / IN.	CHECKED - JP	DATE - 02/7/2011	REVISIONS			SCALE: VERT. 1"=2.5'	SHEET NO. 55 OF 64 SHEETS	STA. 131+00.00 TO STA. 131+46.37	CONTRACT NO. 63524	
						ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	DATE
SURVEYED	BY
TEMPLATE	DATE
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED	BY
TEMPLATE	DATE
AREAS CHECKED	



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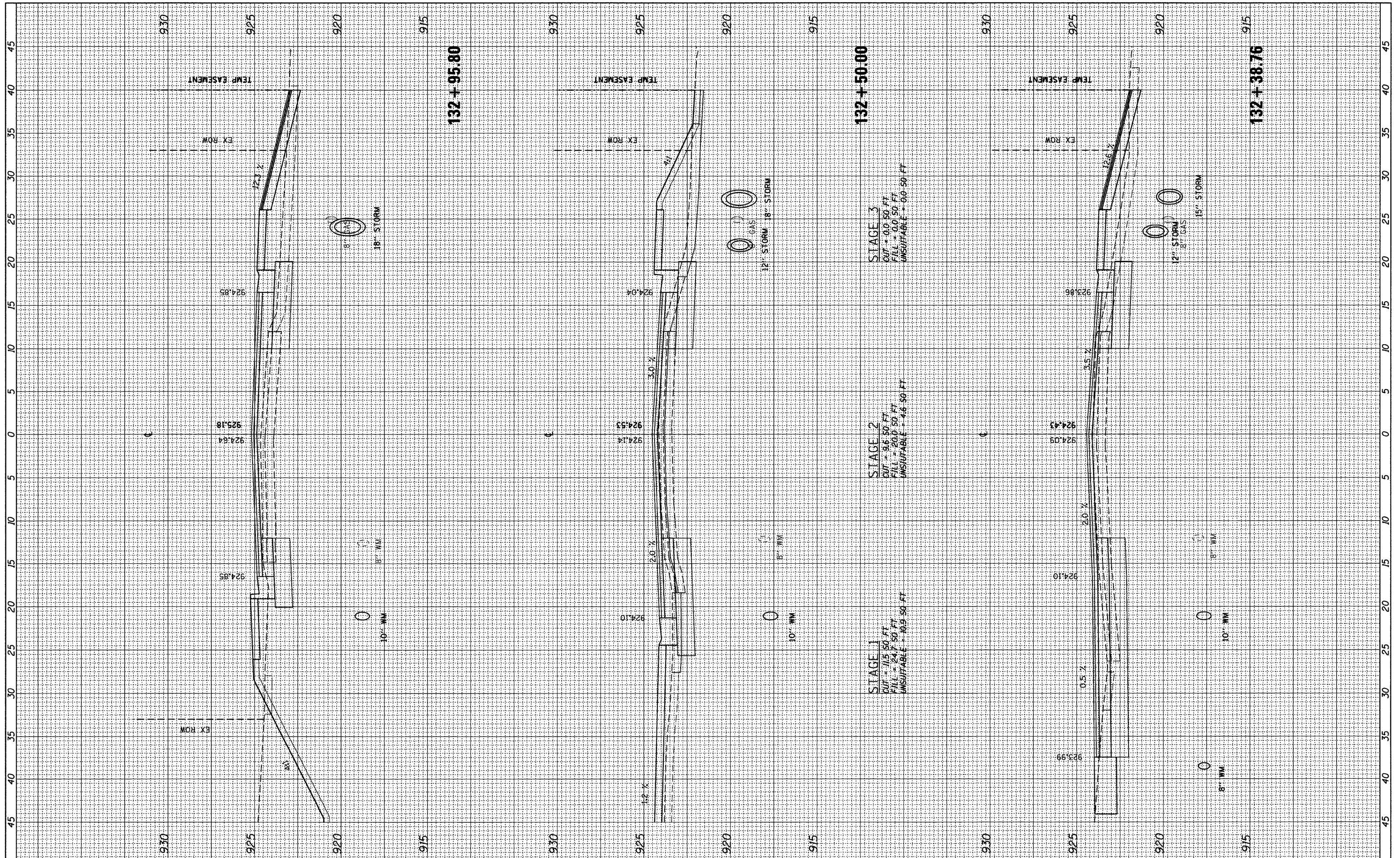
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EAST CRYSTAL LAKE AVENUE CROSS SECTIONS	
HORZ. 1"=5'	SCALE: VERT. 1"=2.5'
SHEET NO. 56 OF 64 SHEETS	STA. 131+50.00 TO STA. 132+25.96

F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY MCHENRY	TOTAL SHEETS 64	SHEET NO. 56
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63524	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
AREAS CHECKED			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
AREAS CHECKED			



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

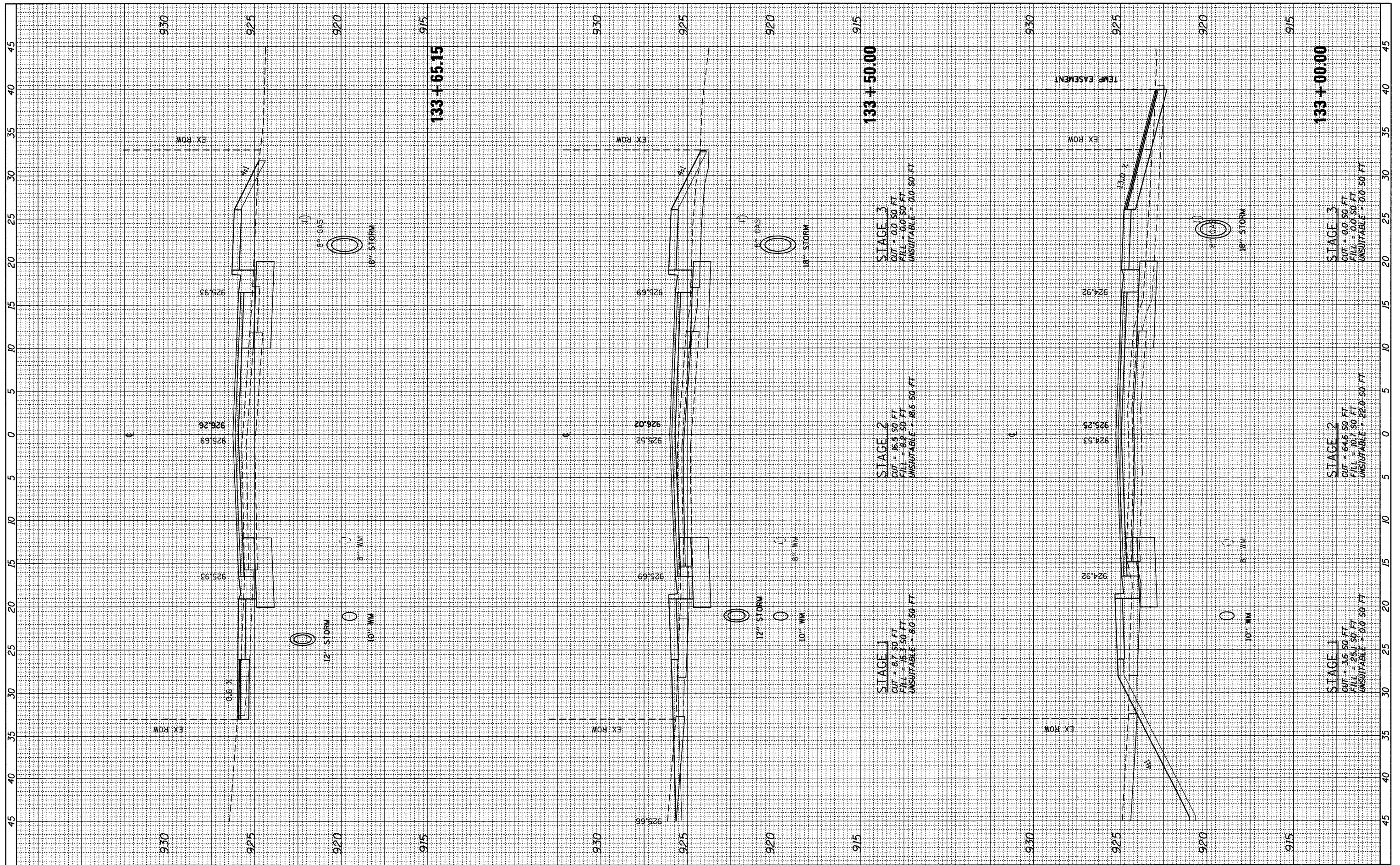
**EAST CRYSTAL LAKE AVENUE
CROSS SECTIONS**

HORZ. 1"=5'
SCALE: VERT. 1"=2.5' SHEET NO. 57 OF 64 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	57
				CONTRACT NO. 63524
ILLINOIS FED. AID PROJECT				

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

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



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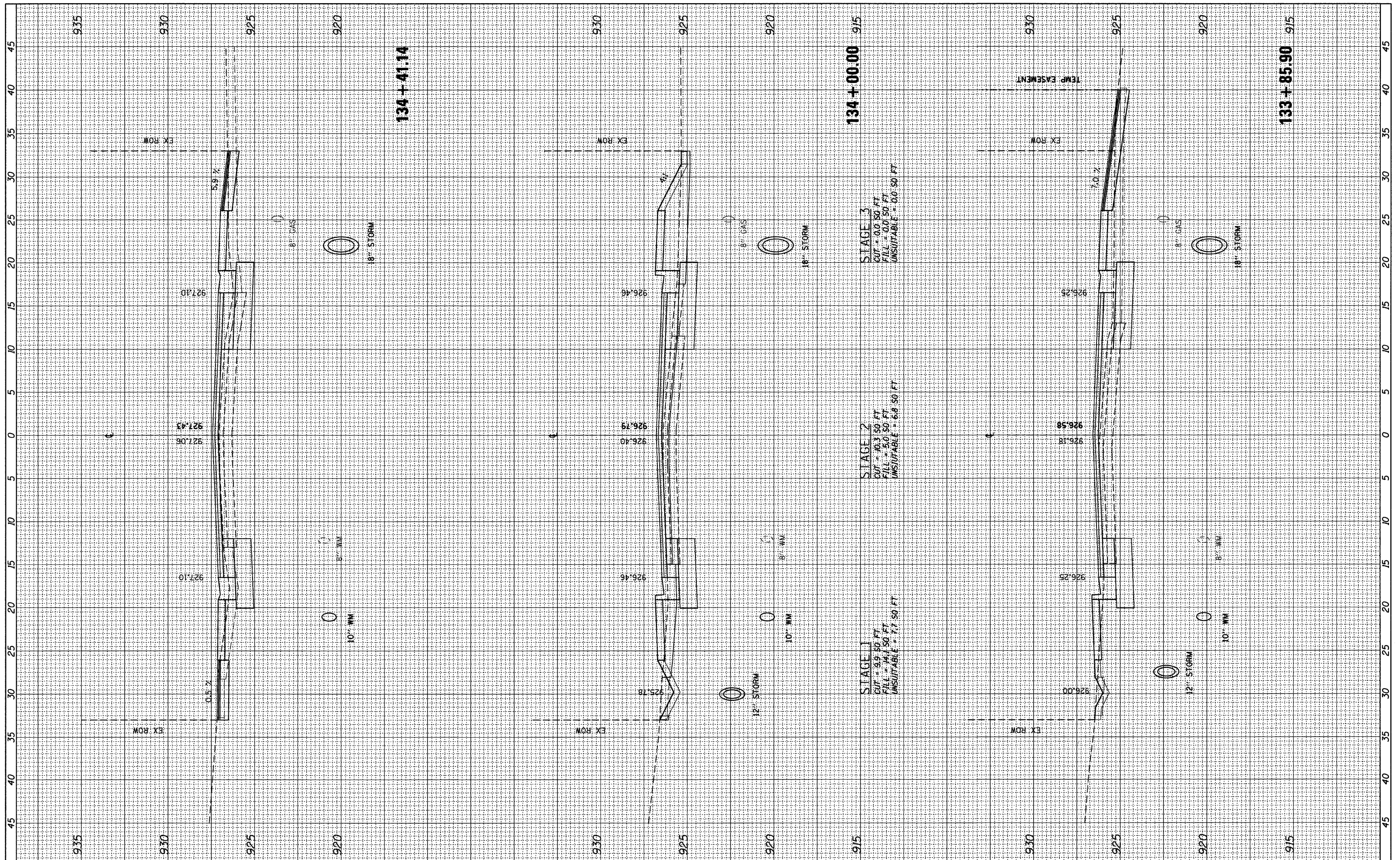
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST CRYSTAL LAKE AVENUE
 CROSS SECTIONS**
 HORZ. 1"=5'
 SCALE: VERT. 1"=2.5' SHEET NO. 58 OF 64 SHEETS
 STA. 133+00.00 TO STA. 133+65.15

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	58
CONTRACT NO. 63524			ILLINOIS FED. AID PROJECT	

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



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

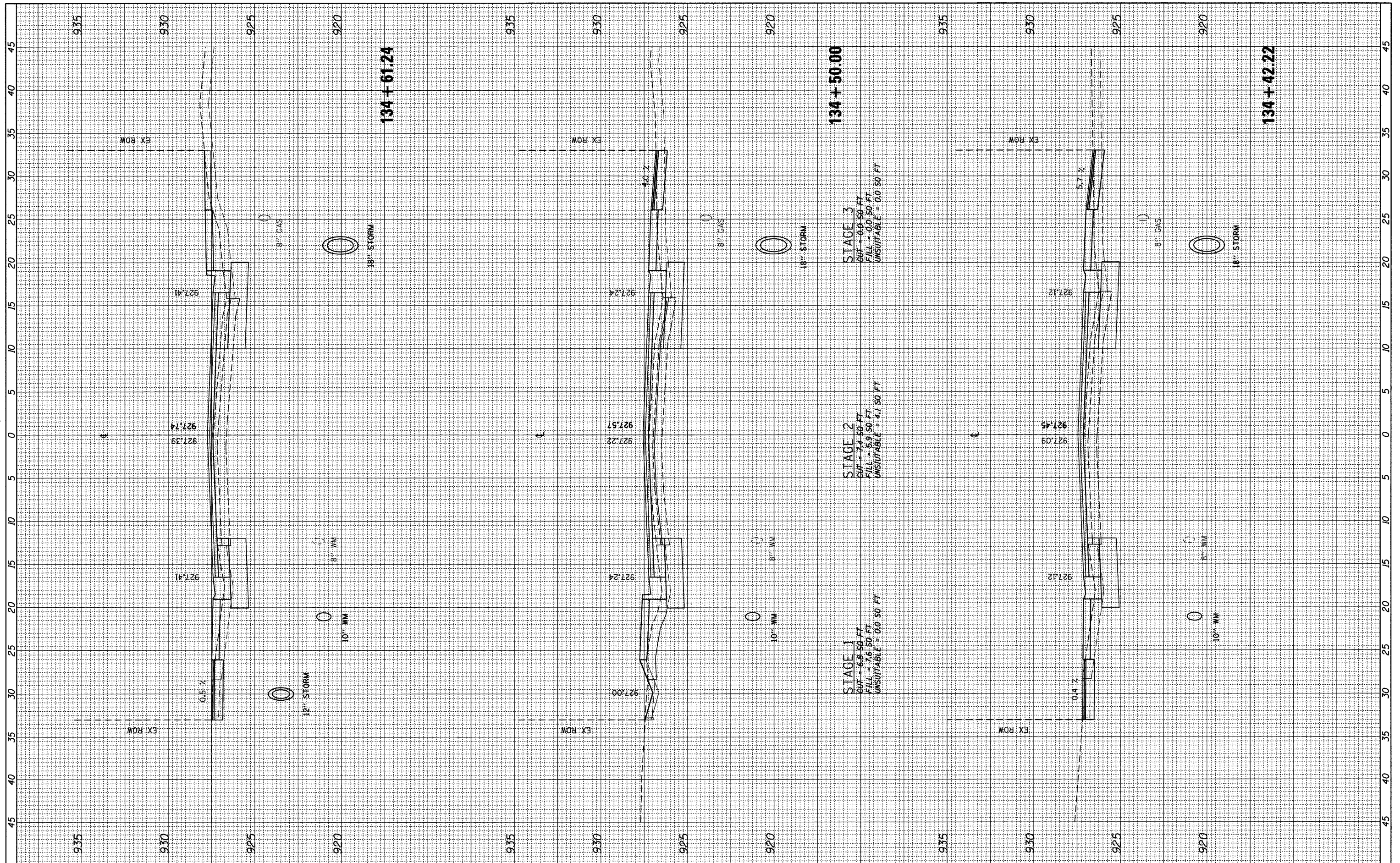
**EAST CRYSTAL LAKE AVENUE
CROSS SECTIONS**

HORZ. 1"=5'
SCALE: VERT. 1"=2.5' SHEET NO. 59 OF 64 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	59
CONTRACT NO. 63524			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____

ORIGINAL SURVEY	DATE
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____



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 CHECKED - JP
 DATE - 02/17/2011

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

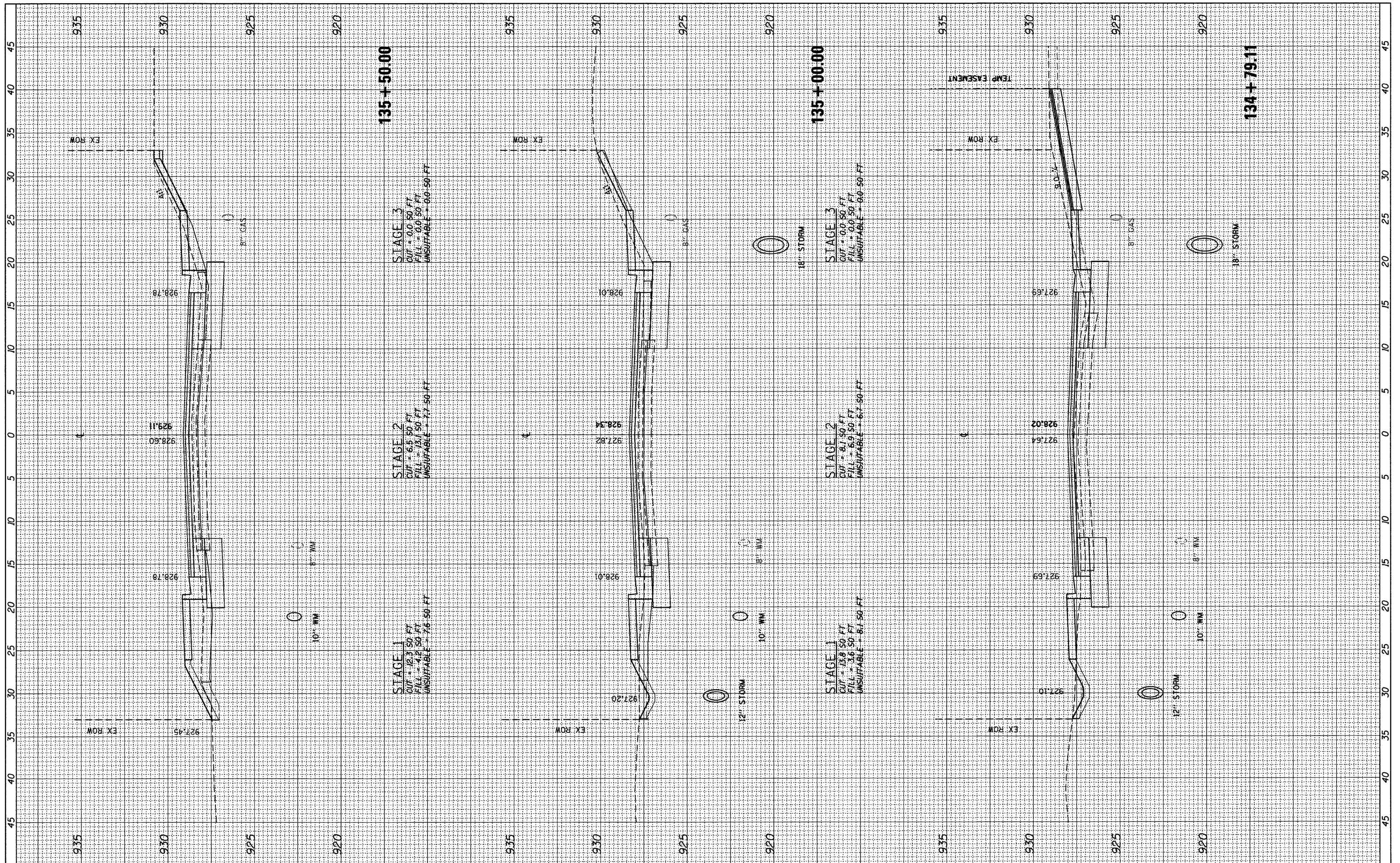
EAST CRYSTAL LAKE AVENUE
 CROSS SECTIONS
 HORZ. 1"=5'
 SCALE: VERT. 1"=2.5' SHEET NO. 60 OF 64 SHEETS

STA. 134+42.22 TO STA. 134+61.24

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	60
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63524	

FINAL SURVEY	NO.
SCHEMATIC	NO.
NOTED	NO.
DATE	
BY	

ORIGINAL SURVEY	NO.
SCHEMATIC	NO.
NOTED	NO.
DATE	
BY	



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 PLOT SCALE = 5.00000' / IN.
 PLOT DATE = 2/17/2011

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

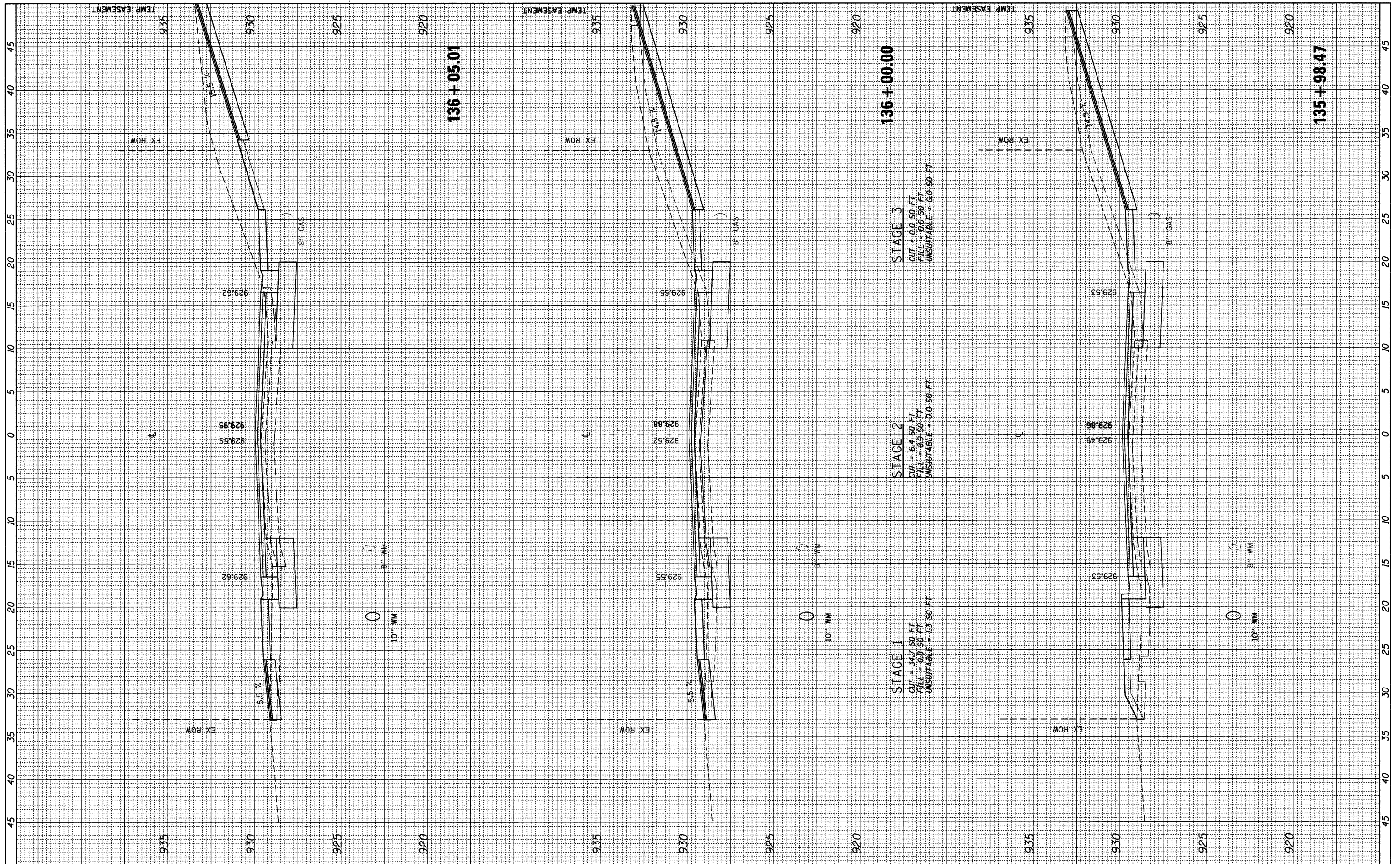
**EAST CRYSTAL LAKE AVENUE
 CROSS SECTIONS**

HORZ. 1"=5'
 SCALE: VERT. 1"=2.5' SHEET NO. 61 OF 64 SHEETS STA. 134+79.11 TO STA. 135+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	61
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63524	

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

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



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

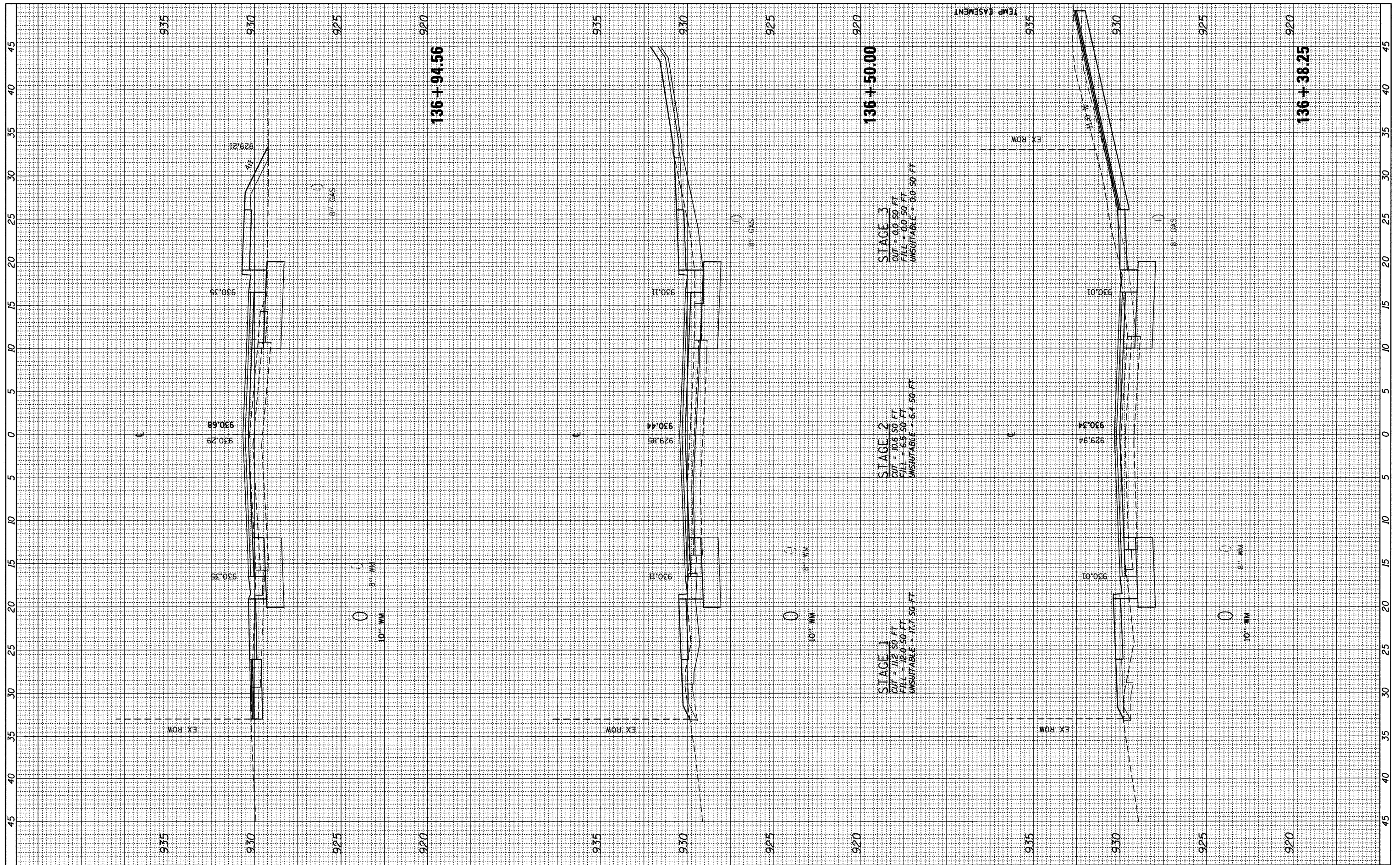
**EAST CRYSTAL LAKE AVENUE
CROSS SECTIONS**

HORZ. 1"=5'
SCALE: VERT. 1"=2.5' SHEET NO. 62 OF 64 SHEETS STA. 135+98.47 TO STA. 136+05.01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	62
CONTRACT NO. 63524			ILLINOIS FED. AID PROJECT	

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

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



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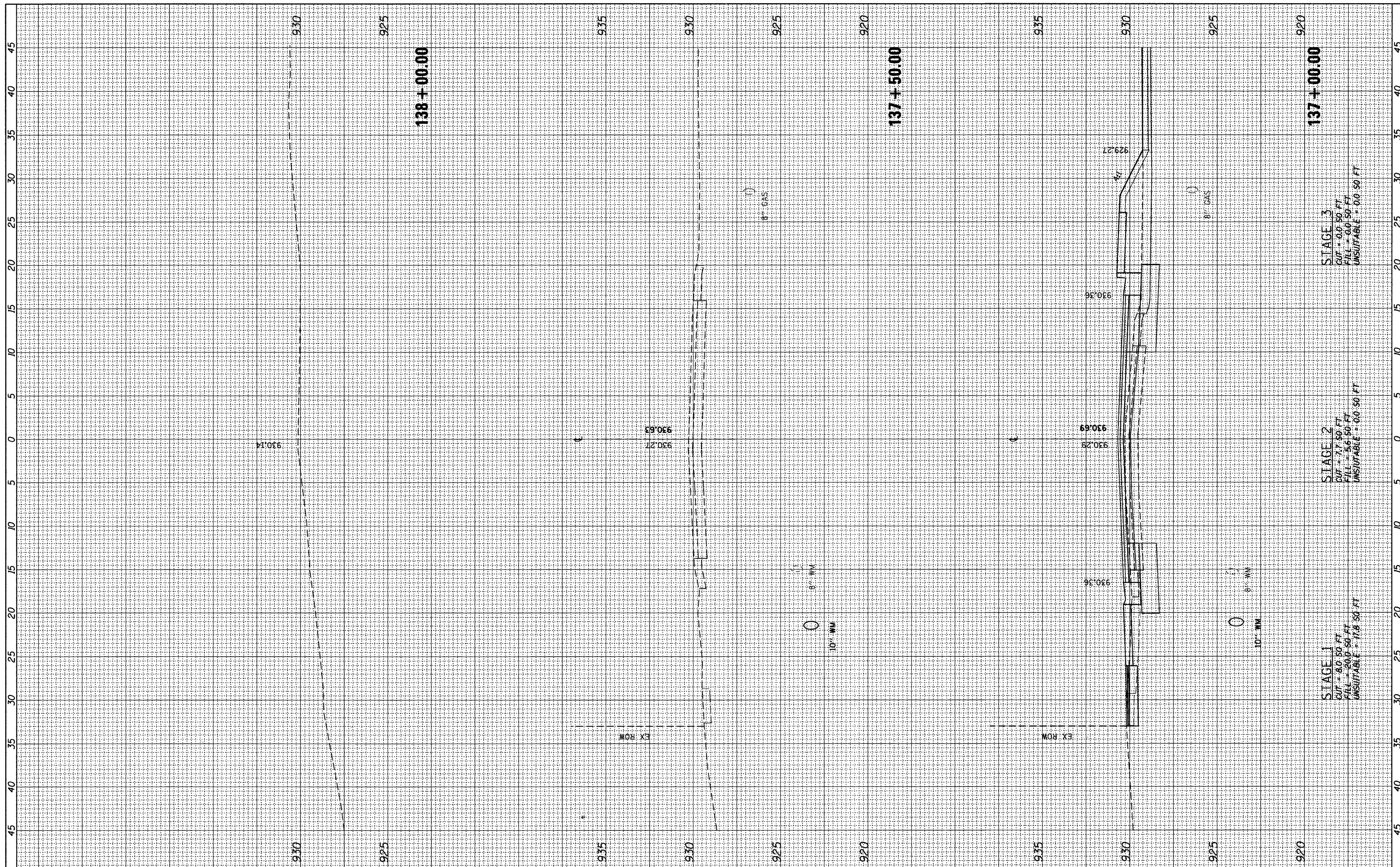
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST CRYSTAL LAKE AVENUE
 CROSS SECTIONS**
 HORZ. 1"=5'
 SCALE: VERT. 1"=2.5' SHEET NO. 63 OF 64 SHEETS
 STA. 136+38.25 TO STA. 136+94.56

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	06-00104-01-WR	MCHENRY	64	63
CONTRACT NO. 63524			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	BY	DATE
SURVEYED		
TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY NO.	BY	DATE
SURVEYED		
TEMPLATE		
AREAS CHECKED		



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PLOT DATE = 2/17/2011		CHECKED - JP	REVISED -
		DATE - 02/7/2011	REVISED -

DESIGNED - GJE	REVISED -
DRAWN - GJE	REVISED -
CHECKED - JP	REVISED -
DATE - 02/7/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST CRYSTAL LAKE AVENUE
CROSS SECTIONS**

HORZ. 1"=5'
SCALE: VERT. 1"=2.5' SHEET NO. 64 OF 64 SHEETS STA. 137+00.00 TO STA. 138+00.00

F.A.U. RTE. 116	SECTION 06-00104-01-WR	COUNTY MCHENRY	TOTAL SHEETS 64	SHEET NO. 64
CONTRACT NO. 63524			ILLINOIS FED. AID PROJECT	