

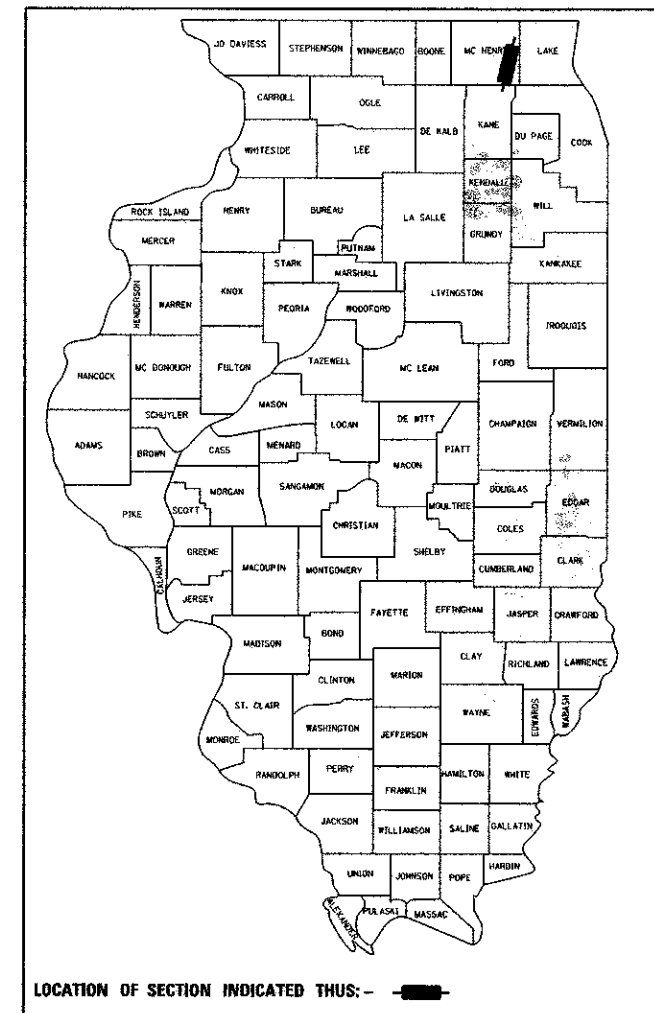
04-26-13 LETTING ITEM 057

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

F.A.U. ROUTE 120 (MCHENRY AVE)
JAMES R RAKOW ROAD TO US ROUTE 14
RESURFACING, BICYCLE/PEDESTRIAN FACILITIES,
DRAINAGE IMPROVEMENT
SECTION 11-00115-00-RS
PROJECT NO: M-9003(886)
CITY OF CRYSTAL LAKE
MCHENRY COUNTY
C-91-132-12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	1
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 63806			



FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

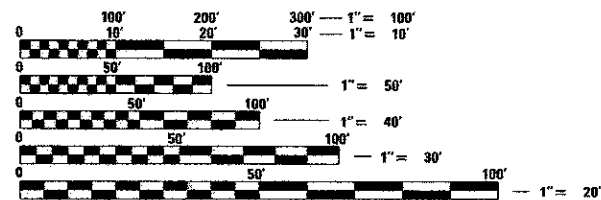
MCHENRY AVE
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
DESIGN SPEED: 30 MPH
POSTED SPEED: 30 MPH

TRAFFIC DATA

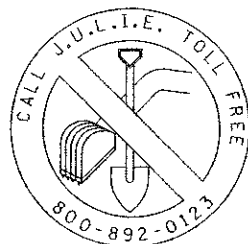
MCHENRY AVE
EXISTING ADT: 10,000 (2012)

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

PROJECT LOCATED IN THE
CITY OF CRYSTAL LAKE



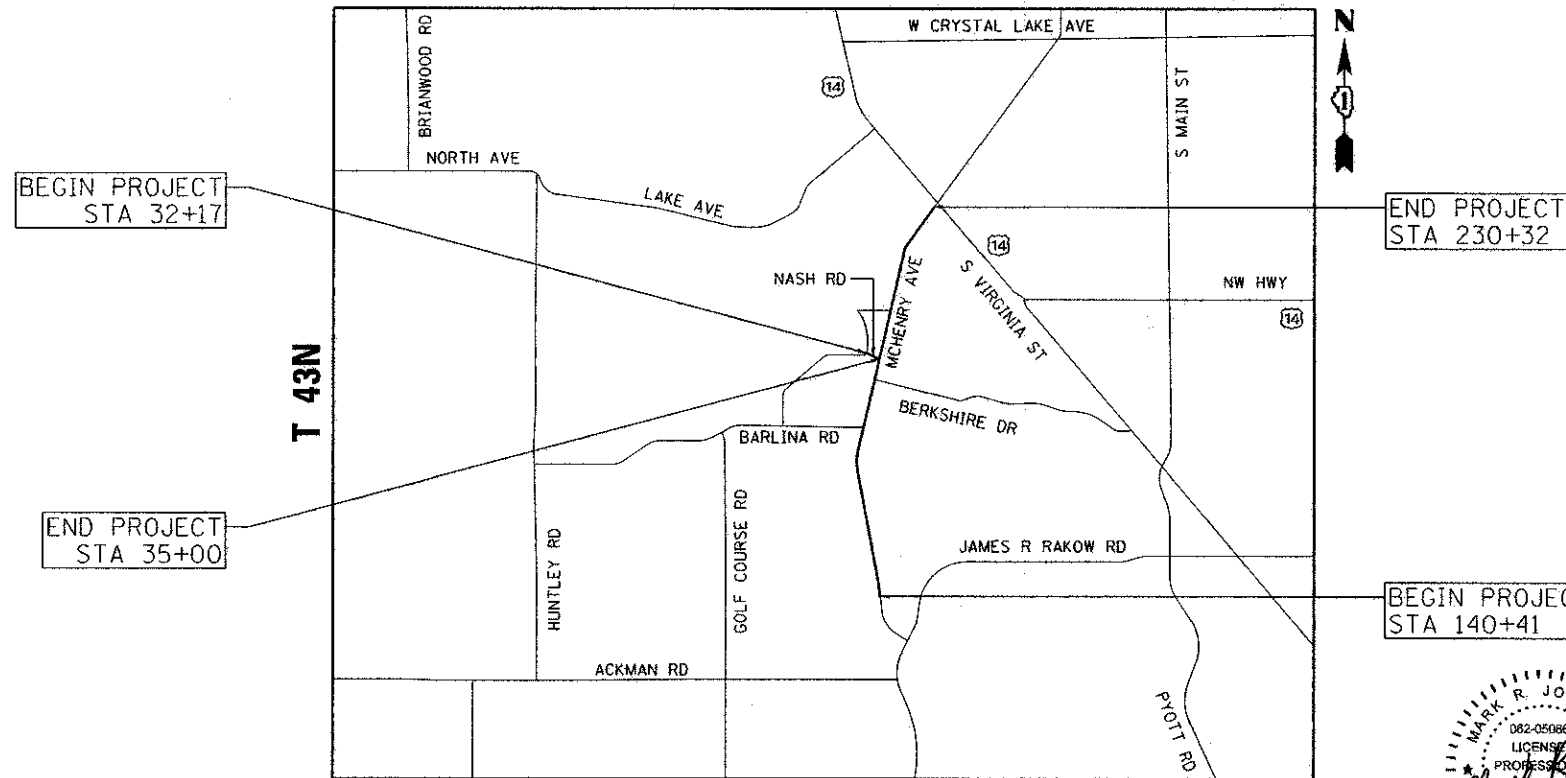
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



CONTRACT NO. 63806

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

ALGONQUIN TOWNSHIP R 8E 3RD PM



LOCATION MAP

GROSS AND NET LENGTH = 9,274 FT = 1.76 MI

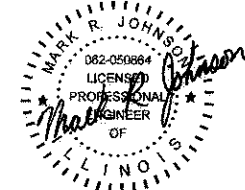
APPROVED 1-17-2013 DATE
Chris D. Monnette
CITY OF CRYSTAL LAKE, CITY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PASSED FEBRUARY 25, 2013 DATE
John C. Hart
DISTRICT ENGINEER OF LOCAL ROAD & STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW February 27, 2013 DATE
John Fortson
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



DATE: 2/21/2013
SEAL EXPIRES: 11/30/2013

Giorba Group, Inc.
DESIGN FIRM
REGISTRATION NUMBER
184-001016
CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 ☎ (773) 775-4009
PLANS PREPARED BY: GIORBA GROUP

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- 424001-07 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
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- 701502-05 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
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- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES:

1. ALL UNDERGROUND UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE UTILITY OWNER.
2. THE CONTRACTOR SHALL NOTIFY CITY ENGINEER AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN CITY UTILITY LOCATIONS AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE CITY AND ENGINEER 72 HOURS IN ADVANCE WHEN DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER WORK. THE ENGINEER SHALL DISTRIBUTE NOTICES TO THE AFFECTED RESIDENTS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ACCOMMODATE ACCESS TO THESE PROPERTY OWNERS INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE TO BE CLOSED.
4. THE CITY POLICE, CITY FIRE DEPARTMENT, AND SOUTHEAST EMERGENCY COMMUNICATIONS CENTER SHALL BE NOTIFIED IN WRITING 48-HOURS PRIOR TO STREET CLOSURES. EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DRIVEWAYS OR AREA IN THE PARKWAY THAT IS DISTURBED BY CONSTRUCTION THAT DOES NOT INDICATE RESTORATION IN THE PLANS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ITEMS FOR WHICH IT APPLIES.
6. MATERIALS RESULTING FROM THE REMOVAL OF PAVEMENT, DRIVEWAYS, CURB AND GUTTER, HOT MIX ASPHALT SURFACES, ETC. SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE.
7. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR RAP. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT.
8. EXISTING PAVEMENT, CURB AND GUTTER, AND SIDEWALK TO REMAIN IN PLACE SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING AND SHALL BE INCLUDED IN THE PRICE OF THE APPROPRIATE REMOVAL PAY ITEM.
9. IN AREAS WHERE THE EXISTING CURB AND GUTTER IS TO BE REMOVED AND REPLACED, THE REMOVAL AND DISPOSAL OF ANY ADDITIONAL MATERIAL REQUIRED TO ESTABLISH THE PROPOSED CURB AND GUTTER SUBGRADE ELEVATION SHALL BE INCLUDED IN THE PAY ITEM COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT.
10. THE CURB SHALL BE TAPERED TO THE GUTTER IN A SIX (6) FOOT LENGTH WHENEVER THE CURB AND GUTTER TERMINATES.
11. THE CURB AND GUTTER WILL BE DEPRESSED AT ALL CROSSINGS ALONG THE SHARED-USE PATH.
12. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL.
13. THE PRIME COAT APPLICATION RATE SHALL BE 0.05 GAL/SY.
14. FOR STEEL BAR CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT (847) 705-4361.
15. THE LOCATIONS OF THE CLASS D PATCHES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD, OTHER THAN THOSE SHOWN IN THE PLANS.
16. CURB AND GUTTER LOCATIONS TO BE REMOVED AND REPLACED WILL BE DETERMINED IN THE FIELD BY THE ENGINEER, OTHER THAN THOSE SHOWN IN THE PLANS.
17. THE CONTRACTOR SHALL NOTIFY IDOT BUREAU OF MATERIALS (847) 705-4337 AT LEAST 24 HOURS PRIOR TO THE PLACEMENT OF HMA OR CONCRETE.
18. ALL THERMOPLASTIC PAVEMENT MARKINGS MUST FOLLOW THE IDOT DETAIL AND HIGHWAY STANDARDS. THE EXACT THERMOPLASTIC PAVEMENT MARKING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

COMMITMENTS:

1. UPON REOPENING OF ST. ANDREWS LANE, NASH ROAD WILL THEN BE CLOSED FOR NO MORE THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS TO COMPLETE THE STORM SEWER IMPROVEMENT AND THE CLASS D PATCH.
2. NO CLOSURES SHALL BE ALLOWED ON JULY 1, 2013 TO JULY 7, 2013. NO LANE CLOSURES WILL BE ALLOWED ALONG MCHENRY AVENUE ON JULY 4, 2013 TO JULY 7, 2013. SAFE ACCESS FOR THE RESIDENTS SHALL BE MAINTAINED AT ALL TIMES.

DRAINAGE NOTES:

1. DURING THE CONSTRUCTION OPERATION WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS, OR DRAINAGE STRUCTURES SO THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
2. PROPER DRAINAGE SHALL BE MAINTAINED IN THE IMPROVEMENT AREA DURING CONSTRUCTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
3. OFFSETS TO DRAINAGE STRUCTURES NOT LOCATED ALONG THE EDGE OF PAVEMENT ARE FROM THE SURVEY BASELINE TO CENTER OF STRUCTURE.
4. EXPENSE INVOLVED IN CONNECTING PROPOSED SEWERS TO EXISTING SEWERS OR PROPOSED SEWERS TO EXISTING SEWER STRUCTURES OR PROPOSED SEWER STRUCTURES TO EXISTING SEWERS WITH A CONCRETE COLLAR OR AS SPECIFIED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE PRICE OF THE ITEM BEING CONNECTED.
5. FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT AT THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
6. ALL PIPE SLOPES ARE FROM INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE. THE PIPE WILL NOT BE PAID FOR THROUGH STRUCTURES.
7. WHERE REQUIRED BY RESTRICTIVE DEPTHS, PRECAST REINFORCED CONCRETE FLAT SLAB TOPS SHALL BE USED FOR MANHOLES AND CATCH BASINS, WITH THE USE OF TONGUE AND GROOVE WHERE DEPTHS ALLOW.
8. THE CONTRACTOR SHALL MAINTAIN FLOWS THROUGH EXISTING SEWER SYSTEMS AT ALL TIMES. THE EXISTING STRUCTURES SHALL BE INSPECTED BEFORE CONSTRUCTION STARTS. AS DIRECTED BY THE ENGINEER, ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR STRUCTURES. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY OPERATIONS. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
11. ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLES, CATCH BASIN, INLET, VALVE VAULT, OR METER VAULT SHALL HAVE CAST INTO THE LID "CITY OF CRYSTAL LAKE" AND ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD "STORM". ALL LIDS TO BE USED ON SANITARY SEWER STRUCTURES SHALL BEAR THE WORD "SANITARY". ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER". ALL OPEN GRATES SHALL INCLUDE THE WORDING "DUMP NO WASTE, DRAINS TO WATERWAYS". THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE STRUCTURE BEING CONSTRUCTED, ADJUSTED OR RECONSTRUCTED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
12. 65 NEW TYPE 1 FRAMES, CLOSED LIDS HAVE BEEN QUANTIFIED. STORM SEWER STRUCTURES (14), SANITARY STRUCTURES (28), AND WATER SYSTEM STRUCTURES (15).
13. ALL TYPE 1 FRAMES SHALL BE EAST JORDAN IRON WORKS 1050Z1, NEENAH R-1713 OR APPROVED EQUAL. ALL LIDS FOR TYPE 1 FRAMES SHALL BE EAST JORDAN IRON WORKS 1020A, NEENAH R-1773, OR APPROVED EQUAL. ALL TYPE 11 FRAMES SHALL BE EAST JORDAN IRON WORKS 7210Z2/TYPE M2 GRATE, NEENAH R3281-A, OR APPROVED EQUAL. ALL LIDS SHALL BE SELF- SEALING WITH A CONCEALED PICK HOLE, EPA COMPLIANT. ALL FRAMES AND LIDS MUST BE MANUFACTURED IN THE UNITED STATES.
14. THE LOCATIONS OF KNOWN WETLANDS ARE SHOWN IN THE PLANS. THE IMPACTS TO THE WETLANDS SHALL BE LIMITED TO THE CONSTRUCTION LIMITS SHOWN IN THE PLANS. TEMPORARY FENCE SHALL BE PROVIDED ALONG THE CONSTRUCTION LIMITS BY THE WETLANDS. AT NO TIME WILL EQUIPMENT OR MATERIAL STORAGE BE ALLOWED TO ENTER THE WETLANDS BEYOND THE CONSTRUCTION LIMITS SHOWN. THE CONTRACTOR IS TO PAY FOR ANY DISTURBANCE OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN.

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ENGINEERING CONSULTANT CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, IL 60630 Tel: 773.772.4000 Fax: 773.772.4014 Email: chicago@glomba.com	USER NAME = aharn	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE INDEX OF SHEETS/GENERAL NOTES/STATE STANDARDS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000' / 1" =	DRAWN - AMH	REVISED -		REVISED -	120	11-00115-00-RS	MCHENRY	62	2			
PLOT DATE = 2/22/2013	CHECKED - MRJ	DATE - FEBRUARY 4, 2013	REVISED -	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 63806			
										ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITY	RESURFACING AND PATCHING 0005	SAFETY 0021	SHARED-USE PATH 0028
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	31	16		15
20101000	TEMPORARY FENCE	FOOT	700			700
20101100	TREE TRUNK PROTECTION	EACH	3			3
△ 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	135			135
△ 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135			135
△ 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	135			135
20200100	EARTH EXCAVATION	CU YD	826			826
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1102			1102
20400800	FURNISHED EXCAVATION	CU YD	350			350
20800150	TRENCH BACKFILL	CU YD	769	769		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	1806	276		1530
△ 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	3826			3826
△ 21101645	TOPSOIL FURNISH AND PLACE, 12"	SO YD	92			92
△ 25000310	SEEDING, CLASS 4	ACRE	0.75			0.75
△ 25100630	EROSION CONTROL BLANKET	SO YD	2959			2959
△ 25200110	SODDING, SALT TOLERANT	SO YD	867			867
28000400	PERIMETER EROSION BARRIER	FOOT	2350			2350
28000500	INLET AND PIPE PROTECTION	EACH	12	4		8
28100101	STONE RIPRAP, CLASS A1	SO YD	16			16
28100107	STONE RIPRAP, CLASS A4	SO YD	16			16

* SPECIAL PROVISION ITEM
△ SPECIALTY ITEMS

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 ENGINEERING CONSULTANT CONSULTING ENGINEERS 2017 North Cunningham Avenue, Suite 402 Chicago, Illinois 60634 Tel: 773.775.6819 Fax: 773.775.4914 Email: ciorba@ciorgroup.com	USER NAME = dharrn	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / 1" =	CHECKED - MRJ	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	120	11-00115-00-RS	MCHENRY
PLOT DATE = 2/21/2013	DATE - FEBRUARY 4, 2013	REVISED -								CONTRACT NO. 63806 ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITY	RESURFACING AND PATCHING 0005	SAFETY 0021	SHARED-USE PATH 002B
28200200	FILTER FABRIC	SO YD	16			16
* 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	254			254
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	1083	1083		
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SO YD	285	285		
31200100	STABILIZED SUBBASE 4"	SO YD	1522			1522
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	10	10		
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	540	540		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7951	7951		
40600300	AGGREGATE (PRIME COAT)	TON	160	160		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	57	57		
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1670	1670		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	3895	3895		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	285			285
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	180	38		142
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3550	3550		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	8	8		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	9247		9247	
42400800	DETECTABLE WARNINGS	SO FT	800		800	
* 44000100	PAVEMENT REMOVAL	SO YD	78	78		

* SPECIAL PROVISION ITEM
 Δ SPECIALTY ITEMS

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ENGINEERING CONSULTANT
Gioba Group, Inc.
 CONSULTING ENGINEERS
 1907 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60648
 Tel: 773-775-4990 Fax: 773-775-4514
 Email: cti@giobagroup.com

USER NAME = obern	DESIGNED - RJR	REVISED -
PLOT SCALE = 50.0000' / 1"	DRAWN - AMH	REVISED -
PLOT DATE = 2/21/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	4
CONTRACT NO. 63806			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITY	RESURFACING AND PATCHING 0005	SAFETY 0021	SHARED-USE PATH 0028
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	39800	39800		
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	557	557		
* 44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	82	82		
44000600	SIDEWALK REMOVAL	SO FT	8221		8221	
44004000	PAVED DITCH REMOVAL	FOOT	47			47
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	225	225		
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	225	225		
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	519	519		
50105220	PIPE CULVERT REMOVAL	FOOT	150			150
50901720	BICYCLE RAILING	FOOT	204			204
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5			5
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	188			188
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	6			6
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	165	165		
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	251	251		
550A0410	STORM SEWERS, CLASS A, TYPE 2, 24"	FOOT	251	251		
550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	340	340		
55100500	STORM SEWER REMOVAL 12"	FOOT	15	15		
55100700	STORM SEWER REMOVAL 15"	FOOT	136	136		
55101200	STORM SEWER REMOVAL 24"	FOOT	442	442		

* SPECIAL PROVISION ITEM
 Δ SPECIALTY ITEMS

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ENGINEERING CONSULTANT
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 5507 North Cumberland Avenue, Suite 402
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USER NAME = aharri
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 2/21/2013

DESIGNED - RJR
 DRAWN - AMH
 CHECKED - MRJ
 DATE - FEBRUARY 4, 2013

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
SUMMARY OF QUANTITIES
 SCALE: SHEET NO. OF SHEETS STA. TO STA.


F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-R5	MCHENRY	62	5
CONTRACT NO. 63806			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITY	RESURFACING AND PATCHING 0005	SAFETY 0021	SHARED-USE PATH 0028
△*	56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	3		3
△*	56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	1	1	
	60107600	PIPE UNDERDRAINS 4"	FOOT	206		206
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2		2
	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	3	3	
	60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	2	2	
	60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	2		2
	60224443	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1	
	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	
	60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	45	45	
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	5	5	
	60260100	INLETS TO BE ADJUSTED	EACH	2	2	
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2	
	60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5	5	
	60404700	FRAMES AND GRATES, TYPE 10	EACH	2	2	
	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2	
	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	20	20	
	60500040	REMOVING MANHOLES	EACH	4	4	
	60500050	REMOVING CATCH BASINS	EACH	2	2	
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	43	43	

* SPECIAL PROVISION ITEM
 △ SPECIALTY ITEMS

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 <p>ENGINEERING CONSULTANT CONSULTING ENGINEERS 2007 North Cumberland Avenue, Suite 402 Chicago, IL 60647 Tel: 773.775.8888 Fax: 773.775.4014 www.giorbagroup.com</p>	USER NAME = aherm	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / 1"	DRAWN - AMH	CHECKED - MRJ					REVISED -	120	11-00115-00-RS	MCHENRY	62
PLOT DATE = 2/21/2013	DATE - FEBRUARY 4, 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 63806					

SUMMARY OF QUANTITIES

ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITY	RESURFACING AND PATCHING 0005	SAFETY 0021	SHARED-USE PATH 0028
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	248	248		
60900515	CONCRETE THRUST BLOCKS	EACH	3			3
△*	66900200 NON-SPECIAL WASTE DISPOSAL	CU YD	60			60
△*	66900450 SPECIAL WASTE PLANS AND REPORTS	L SUM	1			1
△*	66900510 BETX - PNAS SOIL ANALYSIS	EACH	10	1		9
△*	66900630 LEAD AND PH SOIL ANALYSIS	EACH	10	1		9
67100100	MOBILIZATION	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3370	3370		
72000100	SIGN PANEL - TYPE 1	SQ FT	134		131	3
72900100	METAL POST - TYPE A	FOOT	180		156	24
△	78000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1505	1505		
△	78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	19660	19660		
△	78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	8030	8030		
△	78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	930	930		
△	78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	580	580		

* SPECIAL PROVISION ITEM
 △ SPECIALTY ITEMS

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USER NAME = zharin	DESIGNED - RJR	REVISED -
PLOT SCALE = 50,0000' / 1" =	DRAWN - AMH	REVISED -
PLOT DATE = 2/21/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE			
SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	7
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES

ITEM #	DESCRIPTION	UNIT	TOTAL QUANTITY	RESURFACING AND PATCHING 0005	SAFETY 0021	SHARED-USE PATH 0028
△	78004356	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 6"	FOOT	262	262	
△*	78004362	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 12"	FOOT	1528	1528	
△*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	1530	1530	
△*	89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1	1	
△*	89502376	REBUILD EXISTING HANDHOLE	EACH	1	1	
△	A2001216	TREE, ACER RUBRUM RED SUNSET (RED SUNSET RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	1	1
*	X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	1	1	
*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	7		7
*	X0326694	PLUG EXISTING STORM SEWERS	CU YD	4	4	
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	500		500
*	X5504200	DUCTILE IRON STORM SEWER, 12 INCH	FOOT	54	54	
△*	X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	1		1
*	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	1	1	
*	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	20	20	
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
*	Z0004562	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2400	2400	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
*	Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	52	52	
*	XX008830	PRECAST MODULAR RETAINING WALL, SPECIAL	SO FT	1470		1470

* SPECIAL PROVISION ITEM
△ SPECIALTY ITEMS

ENGINEERING CONSULTANT

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USER NAME = ahorn	DESIGNED - RJR	REVISED -
	DRAWN - AMH	REVISED -
PLOT SCALE = 50,0000' / 1"	CHECKED - MRJ	REVISED -
PLOT DATE = 2/21/2013	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	8
			CONTRACT NO. 63806	
ILLINOIS FED. AID PROJECT				

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SUMMARY SCHEDULE OF EARTH QUANTITIES					
LOCATION	VOLUME (CU YD)				
	20201200 UNSUITABLE	20200100 EARTH EX	EXCAVATION (15% SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE
STA 40+18 TO 41+25	65.2	11.7	9.9	80.5	-70.6
STA 41+54 TO STA 42+40	53.2	14.4	12.2	155.1	-142.9
STA 44+45 TO STA 44+60	8.2	14.6	12.4	0.4	12.0
STA 44+87 TO STA 48+20	264.7	728.8	619.5	106.4	513.1
STA 48+54 TO STA 54+55	365.2	56.7	48.2	709.2	-661.0
POTENTIAL UNSUITABLE UNDER PAT	344.7	0.0	0.0	0.0	0.0
PROJECT TOALS	1,101.2	826.2	702.3	1,051.6	-349.3

ENGINEERING CONSULTANT

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USER NAME = ahern
 PLOT SCALE = 50.0000' / 1" =
 PLOT DATE = 2/22/2013

DESIGNED - RJR
 DRAWN - AMH
 CHECKED - MRJ
 DATE - FEBRUARY 4, 2013

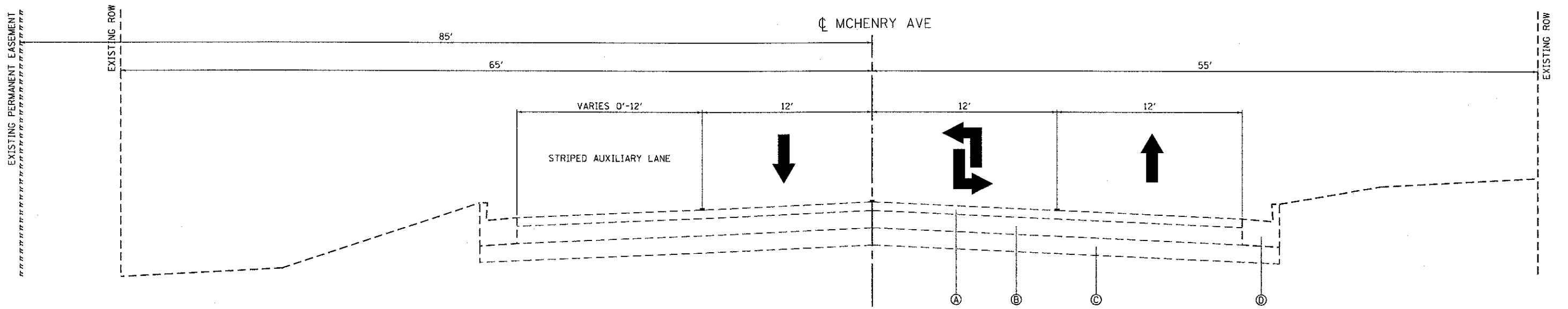
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

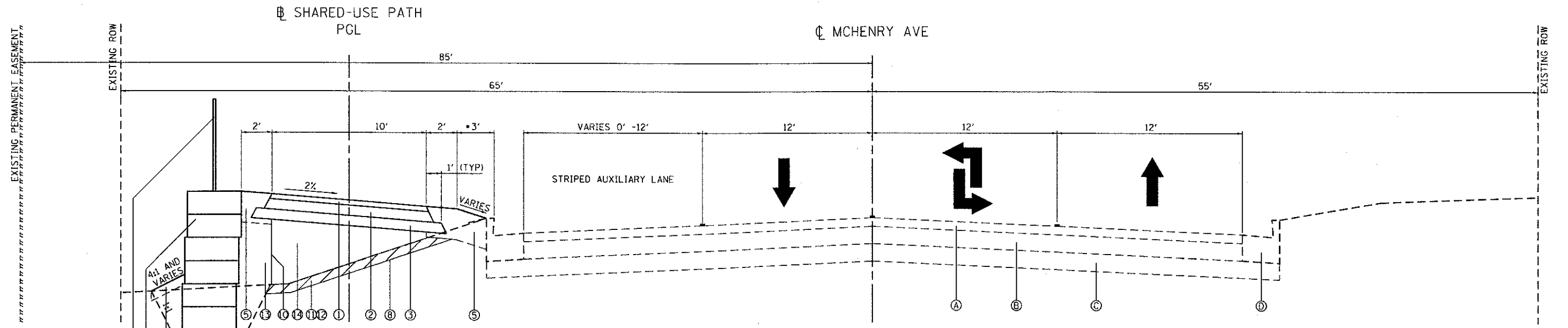
**MCHENRY AVENUE
 EARTHWORK SCHEDULE**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-0015-00-RS	MCHENRY	62	9
CONTRACT NO. 63806			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION
MCHENRY AVENUE
STA 140+41 TO STA 147+19



PROPOSED TYPICAL SECTION
MCHENRY AVENUE

MCHENRY AVENUE - STA 140+41 TO STA 147+19
SHARED-USE PATH - STA 40+18 TO STA 47+10

- VARIES 31' TO 3' FROM STA 140+41 TO 141+08
40+18 TO 41+03
- RETAINING WALL FROM STA 142+40 TO 144+45

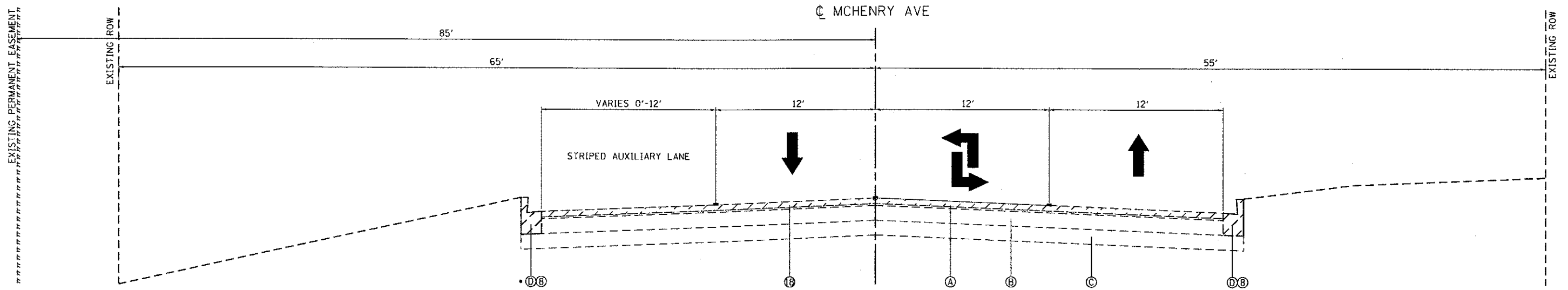
HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART

OPERATIONS	MIXTURE TYPE	PERCENT AIR VOIDS
ROADWAY RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5MM), 1 1/2" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	4% @ 50 GYR 3.5% @ 50 GYR
SHARED-USE PATH	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" (2 LIFTS) STABILIZED SUBBASE 4"	4% @ 50 GYR 4% @ 50 GYR 2% @ 30 GYR
PAVEMENT PATCHING	CLASS D PATCHES, 9" (HMA BINDER IL-19 mm)	4% @ 70 GYR
DRIVEWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" HOT-MIX ASPHALT BASE COURSE, IL-19.0mm, 6" PE, 8" CE (2 LIFTS)	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO 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.

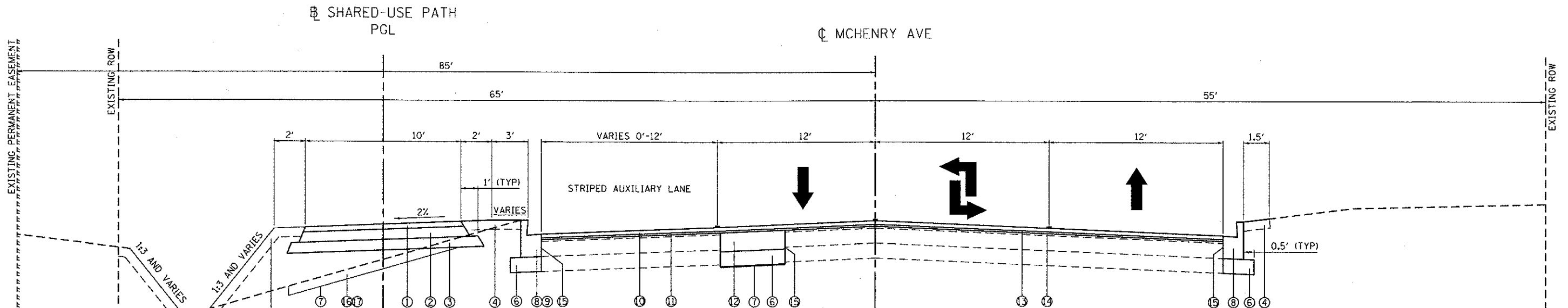
- LEGEND:
- Ⓐ EXISTING HMA OVERLAY, 3"
 - Ⓑ EXISTING HMA BASE COURSE, 8" •• Ⓒ
 - Ⓒ EXISTING AGGREGATE BASE, 6"
 - Ⓓ EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.24
 - ① PROPOSED HOT-MIX ASPHALT SURFACE CSE, MIX "D", N50 2"
 - ② PROPOSED HOT-MIX ASPHALT BINDER CSE, IL-19.0, N50, 4"
 - ③ STABILIZED SUB-BASE 4"
 - ④ FURNISH AND PLACE TOPSOIL, 4" AND SEEDING CLASS 4
 - ⑤ FURNISH AND PLACE TOPSOIL, 12" AND SODDING, SALT TOLERANT
 - ⑥ PROPOSED PRECAST MODULAR RETAINING WALL, SPECIAL
 - ⑦ CONCRETE LEVELING PAD
 - ⑧ GEOTECHNICAL FABRIC FOR GROUND STABILAZATION
 - ⑨ BICYCLE RAILING
 - ⑩ FILTER FABRIC (INCIDENTAL TO PRECAST MODULAR RETAINING WALL, SPECIAL)
 - ⑪ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (AS DIRECTED BY THE ENGINEER)
 - ⑫ AGGREGATE SUBGRADE IMPROVEMENT (AS DIRECTED BY THE ENGINEER)
 - ⑬ POROUS GRANULAR EMBANKMENT (INCIDENTAL TO PRECAST MODULAR RETAINING WALL, SPECIAL)
 - ⑭ SELECT FILL (INCIDENTAL TO PRECAST MODULAR RETAINING WALL, SPECIAL)



EXISTING TYPICAL SECTION
MCHENRY AVENUE

STA 147+19 TO STA 155+00

• EXISTING SHOULDER STA 145+94 TO 147+19



PROPOSED TYPICAL SECTION
MCHENRY AVENUE

MCHENRY AVENUE - STA 147+19 TO STA 155+00

SHARED-USE PATH - STA 47+10 TO STA 54+29

LEGEND:

- Ⓐ EXISTING HMA OVERLAY, 3"
- Ⓑ EXISTING HMA BASE COURSE, 8"
- Ⓒ EXISTING AGGREGATE BASE, 6"
- Ⓓ EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.12

- ① PROPOSED HOT-MIX ASPHALT SURFACE CSE, MIX "D", N50 2"
- ② PROPOSED HOT-MIX ASPHALT BINDER CSE, IL-19.0, N50, 4"
- ③ STABILIZED SUB-BASE 4"
- ④ FURNISH AND PLACE TOPSOIL, 4" AND SODDING, SALT TOLERANT
- ⑤ FURNISH AND PLACE TOPSOIL, 4" AND SEEDING CLASS 4
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE B, 6" (AS DIRECTED BY THE ENGINEER)
- ⑦ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑧ COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)
- ⑨ PROPOSED CONC CURB AND GUTTER, TYPE B-6.24 STA 145+94 TO 148+18
- ⑩ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑫ CLASS D PATCHES, TYPE II, TYPE III OR TYPE IV, 9" (AS DIRECTED BY THE ENGINEER)
- ⑬ BITUMINOUS MATERIALS (PRIME COAT)
- ⑭ AGGREGATE (PRIME COAT)
- ⑮ FULL DEPTH SAWCUT (COST INCLUDED IN ⑧ AND ⑫)
- ⑯ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (AS DIRECTED BY THE ENGINEER)
- ⑰ AGGREGATE SUBGRADE IMPROVEMENT (AS DIRECTED BY THE ENGINEER)
- ⑱ HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

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ENGINEERING CONSULTANT
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USER NAME = ahorn
PLOT SCALE = 10.0000' / 1" in.
PLOT DATE = 2/22/2013

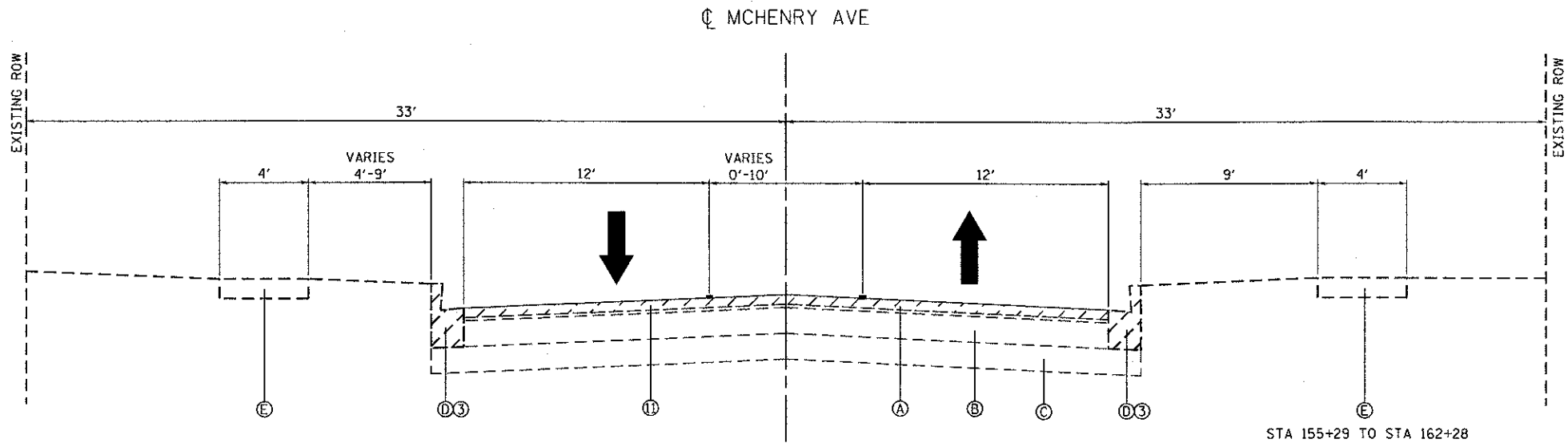
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DRAWN - KEJ	REVISED -
CHECKED - MRJ	REVISED -
DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
TYPICAL SECTIONS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

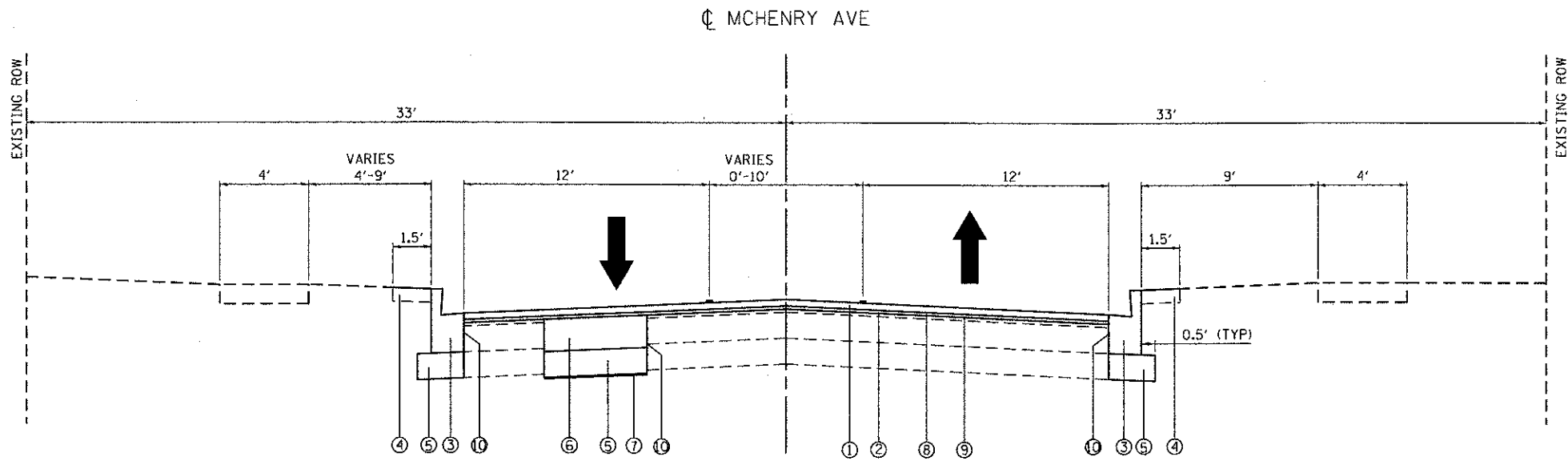
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	11
CONTRACT NO. 63806			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION
MCHENRY AVENUE
STA 155+00 TO STA 167+00

LEGEND:

- (A) EXISTING HMA OVERLAY, 3"
- (B) EXISTING HMA BASE COURSE, 8"
- (C) EXISTING AGGREGATE BASE, 6"
- (D) EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.12
- (E) EXISTING CONC SIDEWALK
- (1) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (3) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)
- (4) FURNISH AND PLACE TOPSOIL, 4" AND SODDING, SALT TOLERANT
- (5) SUBBASE GRANULAR MATERIAL, 6" (AS DIRECTED BY THE ENGINEER)
- (6) CLASS D PATCHES, TYPE II, TYPE III OR TYPE IV, 9" (AS DIRECTED BY THE ENGINEER)
- (7) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (8) BITUMINOUS MATERIALS (PRIME COAT)
- (9) AGGREGATE (PRIME COAT)
- (10) FULL DEPTH SAWCUT (COST INCLUDED IN (3) AND (6))
- (11) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"



PROPOSED TYPICAL SECTION
MCHENRY AVENUE
STA 155+00 TO STA 167+00

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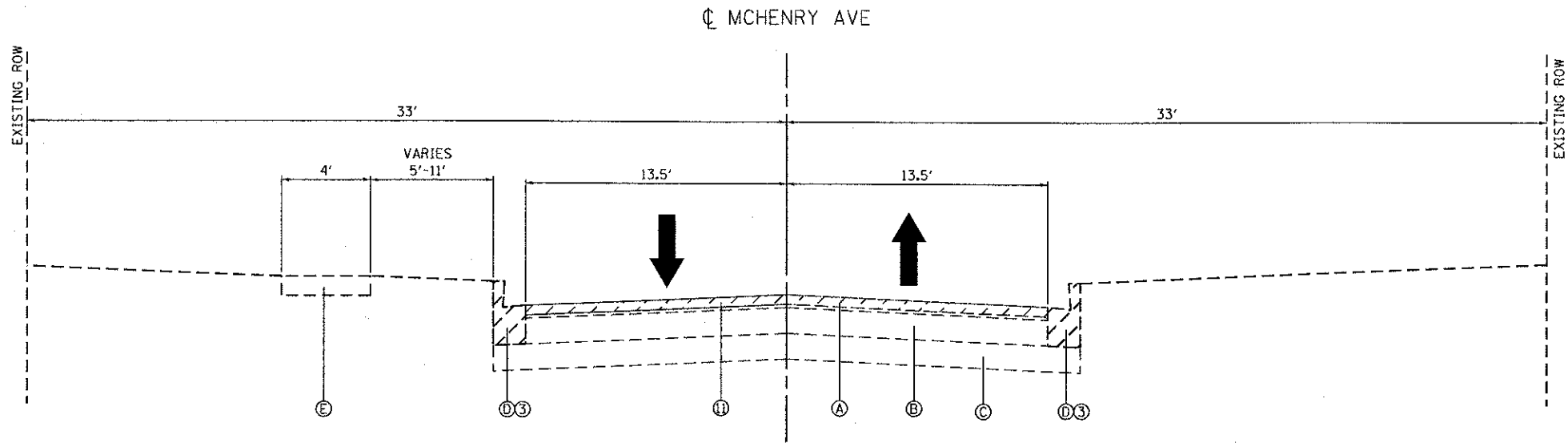
ENGINEERING CONSULTANT
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USER NAME = aham	DESIGNED - RJR	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - KEJ	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS	MCHENRY AVENUE
DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS

SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-0015-00-RS	MCHENRY	62	12
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

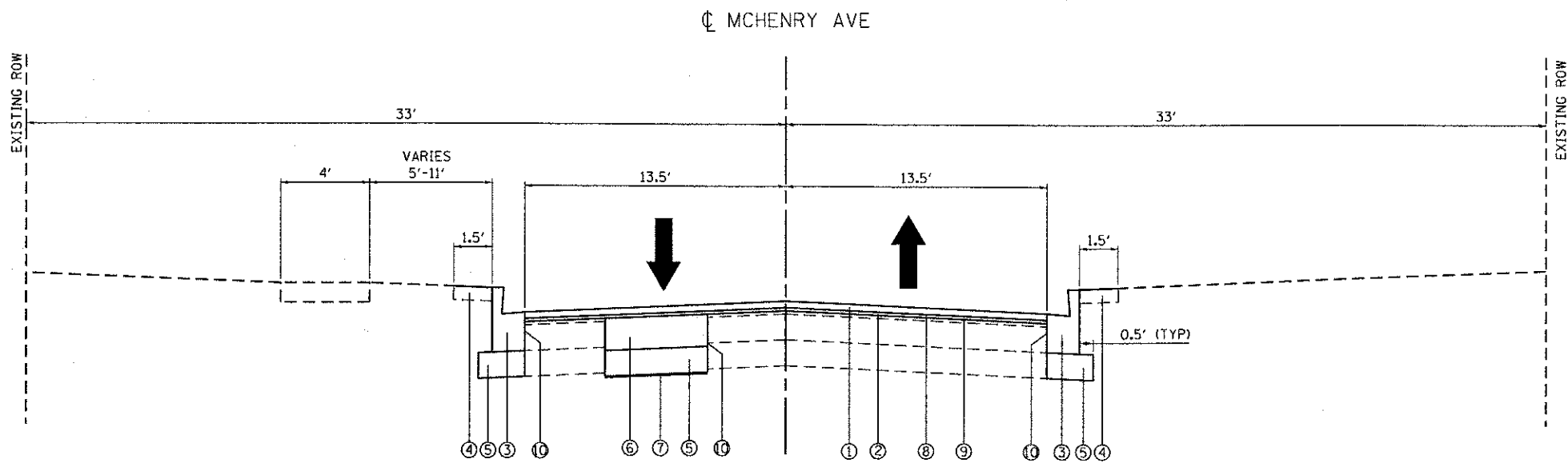


EXISTING TYPICAL SECTION

MCHENRY AVENUE
STA 167+00 TO STA 181+00

LEGEND:

- (A) EXISTING HMA OVERLAY, 3"
- (B) EXISTING HMA BASE COURSE, 8"
- (C) EXISTING AGGREGATE BASE, 6"
- (D3) EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.12
- (E) EXISTING CONC SIDEWALK
- (1) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (3) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)
- (4) FURNISH AND PLACE TOPSOIL, 4" AND SODDING, SALT TOLERANT
- (5) SUBBASE GRANULAR MATERIAL, 6" (AS DIRECTED BY THE ENGINEER)
- (6) CLASS D PATCHES, TYPE II, TYPE III OR TYPE IV, 9" (AS DIRECTED BY THE ENGINEER)
- (7) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (8) BITUMINOUS MATERIALS (PRIME COAT)
- (9) AGGREGATE (PRIME COAT)
- (10) FULL DEPTH SAWCUT (COST INCLUDED IN (3) AND (6))
- (11) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"



PROPOSED TYPICAL SECTION

MCHENRY AVENUE
STA 167+00 TO STA 181+00

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ENGINEERING CONSULTANT
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 5607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4008 Fax: 773.775.4014
 Email: chris@clorba.com

USER NAME = eharr
PLOT SCALE = 10.0000' / 1" =
PLOT DATE = 2/22/2013

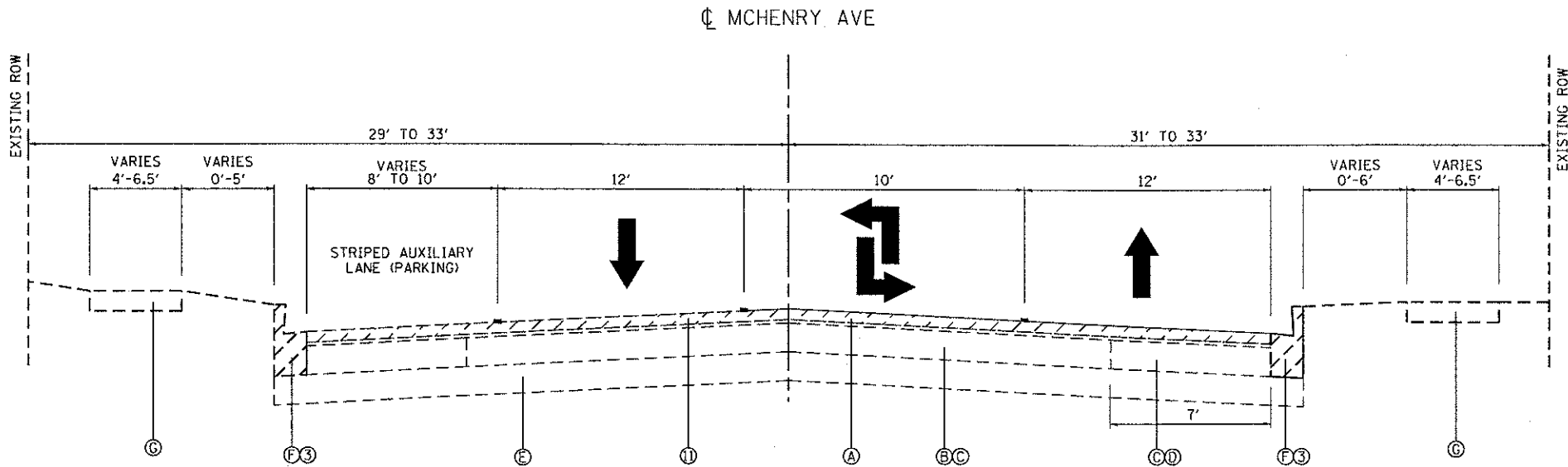
DESIGNED - RJR
DRAWN - KEJ
CHECKED - MRJ
DATE - FEBRUARY 4, 2013

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE TYPICAL SECTIONS			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	

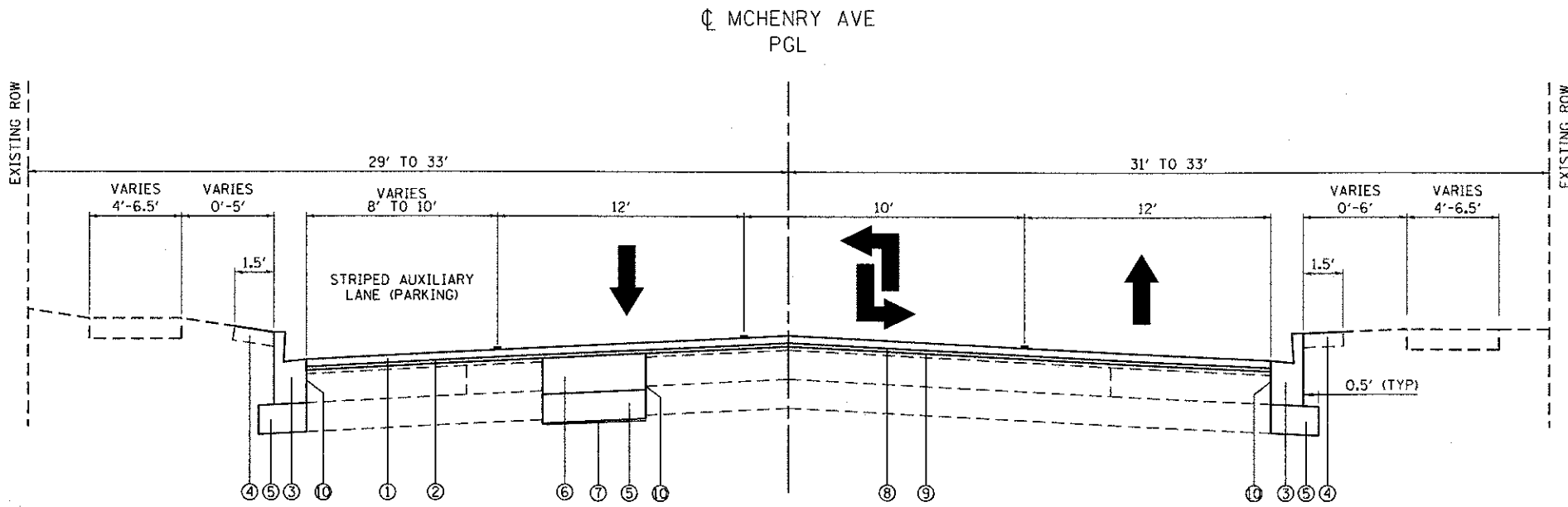
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	13
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
MCHENRY AVENUE
STA 181+00 TO STA 230+32

LEGEND:

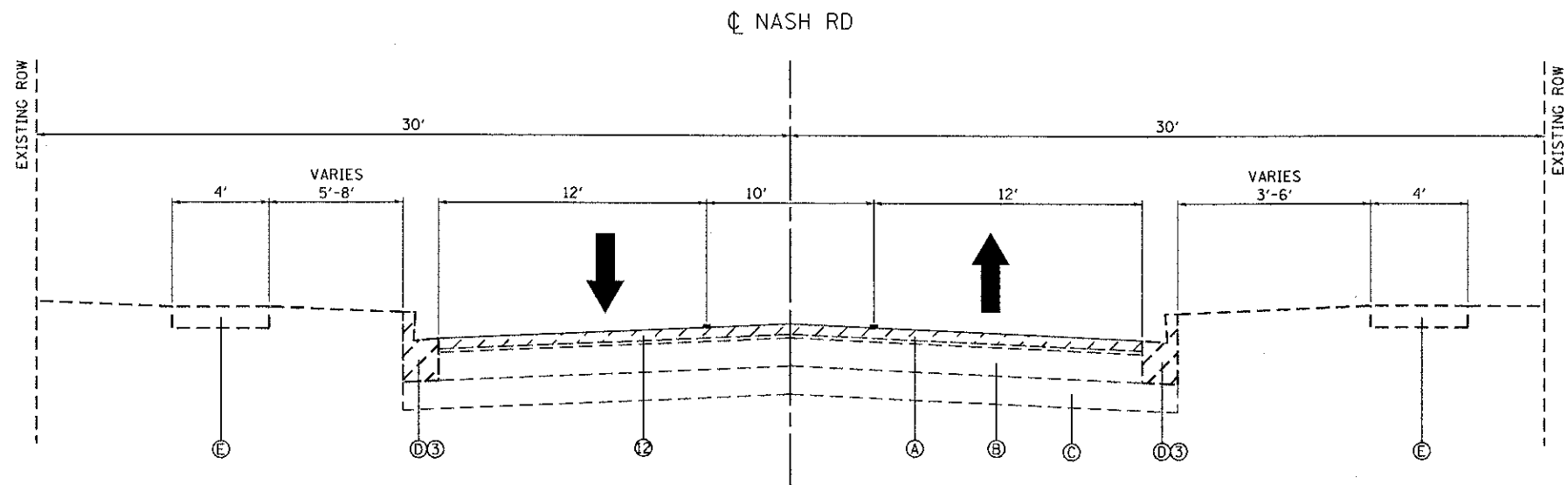
- (A) EXISTING HMA OVERLAY, 3"
- (B) EXISTING PORTLAND CEMENT CONC PAVEMENT, 6" STA 220+50 TO 233+02.12
- (C) EXISTING HMA BASE COURSE, 8" STA 181+00 TO 220+50
- (D) EXISTING HMA BASE COURSE, 6" STA 220+50 TO 233+02.12
- (E) EXISTING AGGREGATE BASE, 6" STA 181+00 TO 220+50
- (F) EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.12
- (G) EXISTING CONC SIDEWALK
- (1) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (3) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)
- (4) FURNISH AND PLACE TOPSOIL, 4" AND SODDING, SALT TOLERANT
- (5) SUBBASE GRANULAR MATERIAL, 6" (AS DIRECTED BY THE ENGINEER)
- (6) CLASS D PATCHES, TYPE II, TYPE III OR TYPE IV, 9" (AS DIRECTED BY THE ENGINEER)
- (7) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (8) BITUMINOUS MATERIALS (PRIME COAT)
- (9) AGGREGATE (PRIME COAT)
- (10) FULL DEPTH SAWCUT (COST INCLUDED IN (3) AND (6))
- (11) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"



PROPOSED TYPICAL SECTION
MCHENRY AVENUE
STA 181+00 TO STA 230+32

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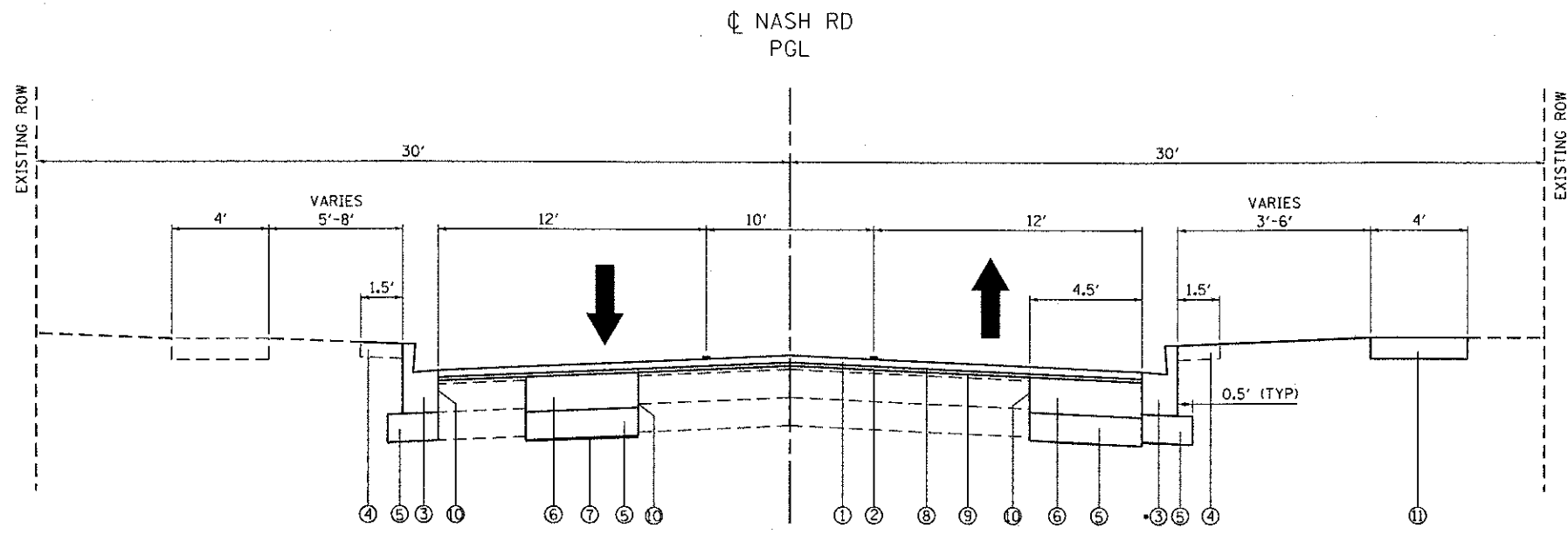
<p>ENGINEERING CONSULTANT CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.774.0219 Fax: 773.774.4014 Email: chicago@clorba.com</p>	USER NAME = ahorn	DESIGNED - RJR	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">MCHENRY AVENUE TYPICAL SECTIONS</p>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10.0000' / in.	CHECKED - MRJ	REVISED -				120	11-00115-00-RS	MCHENRY	62	14
PLOT DATE = 2/22/2013	DATE - FEBRUARY 4, 2013	REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	<p align="right">ILLINOIS FED. AID PROJECT CONTRACT NO. 63806</p>				



EXISTING TYPICAL SECTION
NASH ROAD
STA 32+17 TO STA 35+00

LEGEND:

- (A) EXISTING HMA OVERLAY, 3"
- (B) EXISTING HMA BASE COURSE, 8"
- (C) EXISTING AGGREGATE BASE, 6"
- (D) EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.12
- (E) EXISTING CONC SIDEWALK
- (1) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (3) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)
- (4) FURNISH AND PLACE TOPSOIL, 4" AND SODDING, SALT TOLERANT
- (5) SUBBASE GRANULAR MATERIAL, 6" (AS DIRECTED BY THE ENGINEER)
- (6) CLASS D PATCHES, TYPE II, TYPE III OR TYPE IV, 9" (AS DIRECTED BY THE ENGINEER)
- (7) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (8) BITUMINOUS MATERIALS (PRIME COAT)
- (9) AGGREGATE (PRIME COAT)
- (10) FULL DEPTH SAWCUT (COST INCLUDED IN (3) AND (6))
- (11) PROPOSED PCC SIDEWALK, 5"
- (12) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"



PROPOSED TYPICAL SECTION
NASH ROAD
STA 32+17 TO STA 35+00

• COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT ALONG THE ENTIRE LENGTH OF NASH RD

ENGINEERING CONSULTANT
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CONSULTING ENGINEERS
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Tel: 773.775.4000 Fax: 773.775.4014
Email: clorba@clorba.com

USER NAME = ahern	DESIGNED - RJR	REVISOR -
PLOT SCALE = 10.0000' / in.	DRAWN - KEJ	REVISIONS -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISIONS -
	DATE - FEBRUARY 4, 2013	REVISIONS -

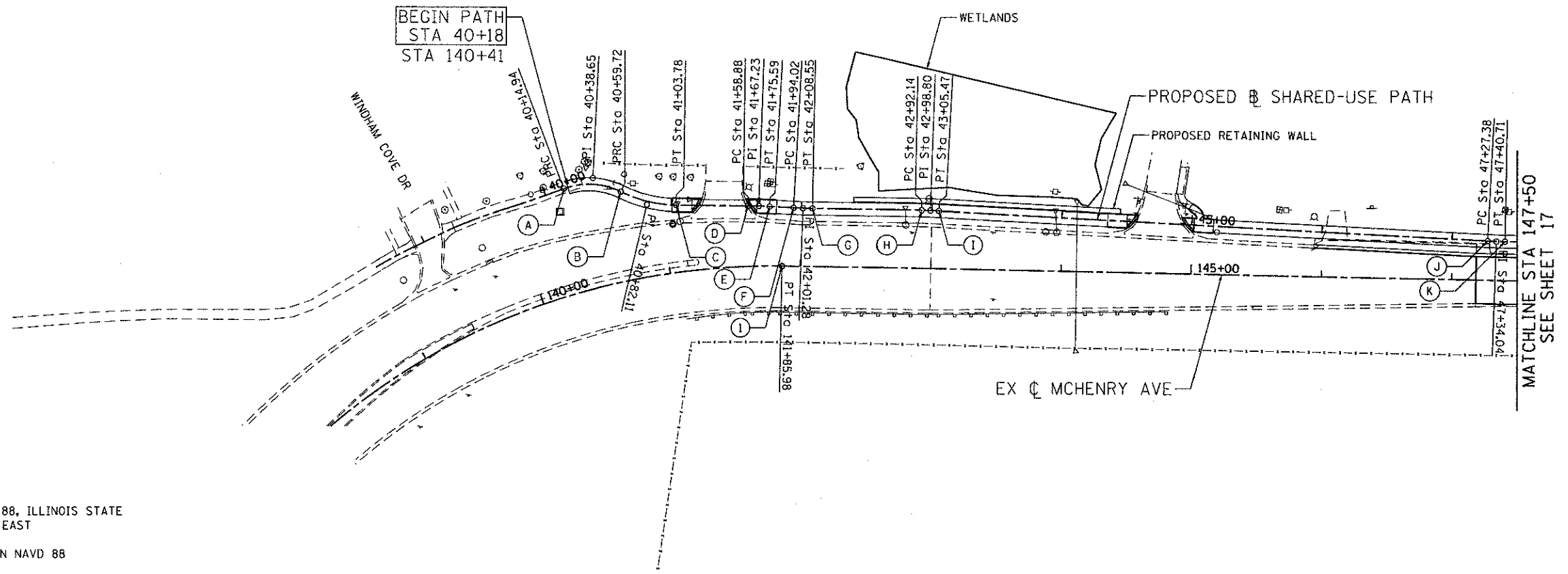
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
TYPICAL SECTIONS

SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	15
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

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NOTES:

1. THE BASIS OF BEARINGS IS NAD 88, ILLINOIS STATE PLANE COORDINATES, ZONE 1201, EAST
2. ELEVATIONS SHOWN ARE BASED ON NAVD 88

PI STA. = 40+38.65 Δ = 46° 39' 16" (RT) D = 104° 10' 27" R = 55.00' T = 23.72' L = 44.78' E = 4.90' P.C. STA. = 40+14.94 P.R.C. STA. = 40+59.72	PI STA. = 40+82.11 Δ = 25° 14' 42" (LT) D = 57° 17' 45" R = 100.00' T = 22.39' L = 44.06' E = 2.48' P.R.C. STA. = 40+59.72 P.C. STA. = 41+03.78	PI STA. = 41+67.23 Δ = 2° 23' 37" (RT) D = 14° 19' 26" R = 400.00' T = 8.36' L = 16.71' E = 0.09' P.C. STA. = 41+58.88 P.T. STA. = 41+75.59
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PI STA. = 42+01.28 Δ = 2° 04' 52" (LT) D = 14° 19' 26" R = 400.00' T = 7.26' L = 14.53' E = 0.07' P.C. STA. = 41+94.02 P.T. STA. = 42+08.55	PI STA. = 42+98.80 Δ = 1° 54' 33" (RT) D = 14° 19' 26" R = 400.00' T = 6.66' L = 13.33' E = 0.06' P.C. STA. = 42+92.14 P.T. STA. = 43+05.47	PI STA. = 47+34.04 Δ = 1° 54' 33" (LT) D = 14° 19' 26" R = 400.00' T = 6.66' L = 13.33' E = 0.06' P.C. STA. = 47+27.38 P.T. STA. = 47+40.71
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NUMBER	DESCRIPTION	STATION	NORTHING	EASTING
1	MCHENRY PT STATION	141+85.98	2018471.94	983058.86

LETTER	DESCRIPTION	STATION	NORTHING	EASTING
A	MCHENRY PRC STATION	40+14.94	2018297.47	983026.37
B	MCHENRY PRC STATION	40+59.72	2018340.77	983021.66
C	MCHENRY PT STATION	41+03.78	2018384.34	983025.08
D	MCHENRY PC STATION	41+58.88	2018438.88	983017.28
E	MCHENRY PT STATION	41+75.59	2018455.47	983015.26
F	MCHENRY PC STATION	41+94.02	2018473.81	983013.42
G	MCHENRY PT STATION	42+08.55	2018488.23	983011.71
H	MCHENRY PC STATION	42+92.14	2018571.05	983000.33
I	MCHENRY PT STATION	43+05.47	2018584.28	982998.74
J	MCHENRY PC STATION	47+27.38	2019003.95	982955.28
K	MCHENRY PT STATION	47+40.71	2019017.18	982953.69

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	ENGINEERING CONSULTANT Clorba Group, Inc. <small>CONSULTING ENGINEERS</small> <small>6501 North Cumberland Avenue, Suite 402</small> <small>Chicago, Illinois 60630</small> <small>Tel: 773.776.4000 Fax: 773.776.4014</small> <small>Email: clorba@clorba.com</small>	USER NAME = aharr DESIGNED - RJR DRAWN - AMH CHECKED - MRJ DATE - FEBRUARY 4, 2013	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE ALIGNMENT, TIES AND BENCHMARKS	F.A.U. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 16
	SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.						CONTRACT NO. 63806 <small>ILLINOIS FED. AID PROJECT</small>			

PI STA. = 47+95.24
 $\Delta = 7^\circ 46' 56''$ (LT)
 D = 57' 17' 45"
 R = 100.00'
 T = 6.80'
 L = 13.58'
 E = 0.23'
 P.C. STA. = 47+88.44
 P.T. STA. = 48+02.02

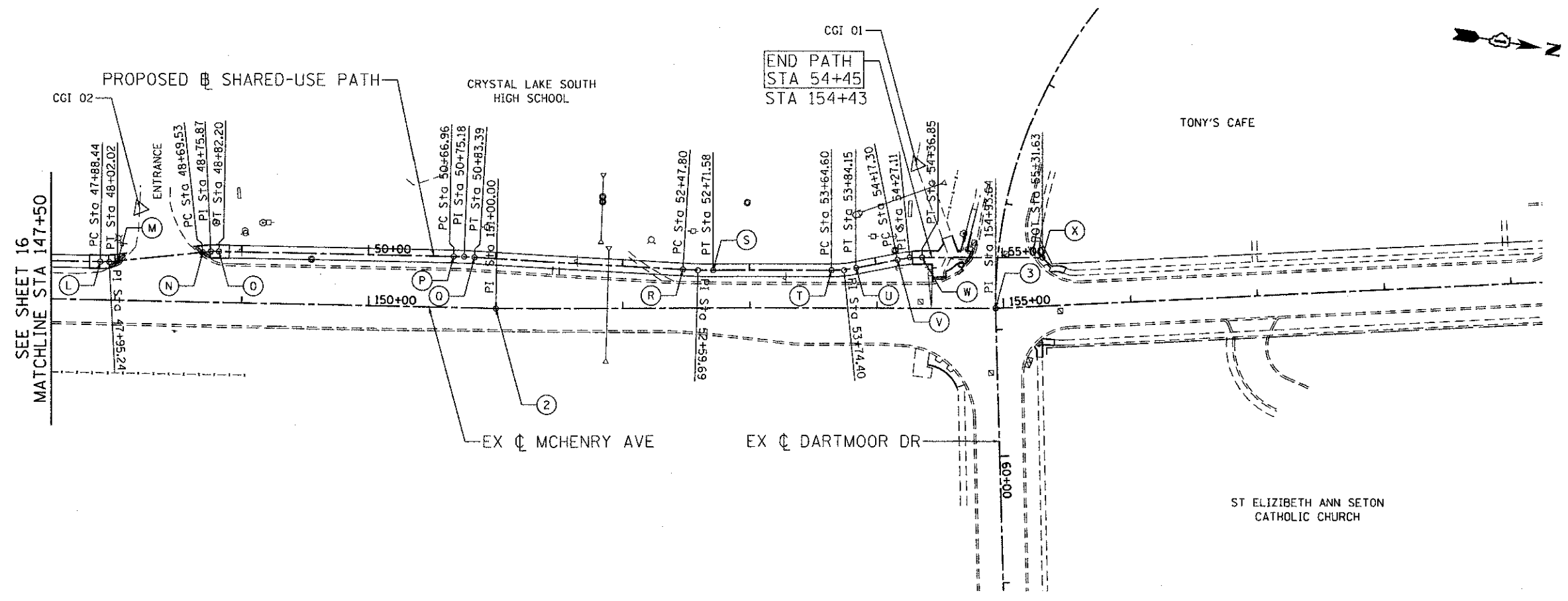
PI STA. = 48+75.87
 $\Delta = 7^\circ 15' 25''$ (RT)
 D = 57' 17' 45"
 R = 100.00'
 T = 6.34'
 L = 12.67'
 E = 0.20'
 P.C. STA. = 48+69.53
 P.T. STA. = 48+82.20

PI STA. = 50+75.18
 $\Delta = 2^\circ 21' 17''$ (RT)
 D = 14' 19' 26"
 R = 400.00'
 T = 8.22'
 L = 16.44'
 E = 0.08'
 P.C. STA. = 50+66.96
 P.T. STA. = 50+83.39

PI STA. = 52+59.69
 $\Delta = 3^\circ 24' 24''$ (LT)
 D = 14' 19' 26"
 R = 400.00'
 T = 11.90'
 L = 23.78'
 E = 0.18'
 P.C. STA. = 52+47.80
 P.T. STA. = 52+71.58

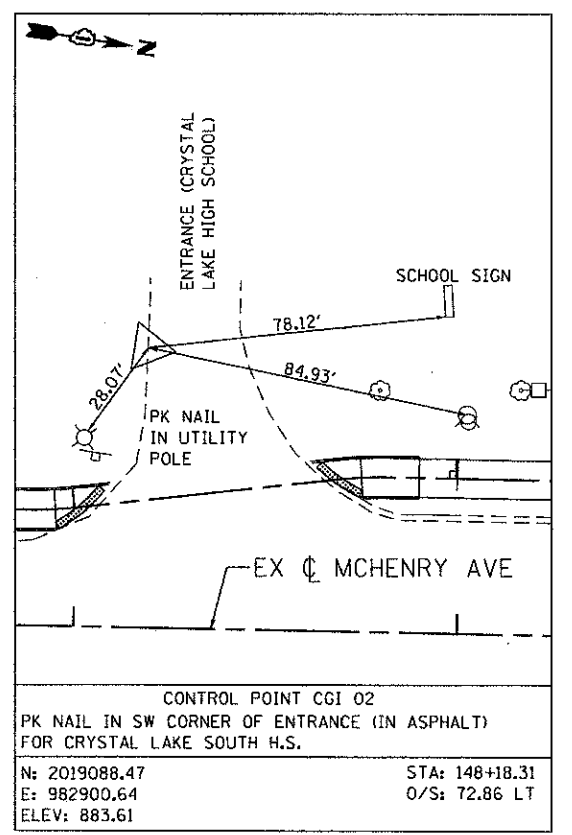
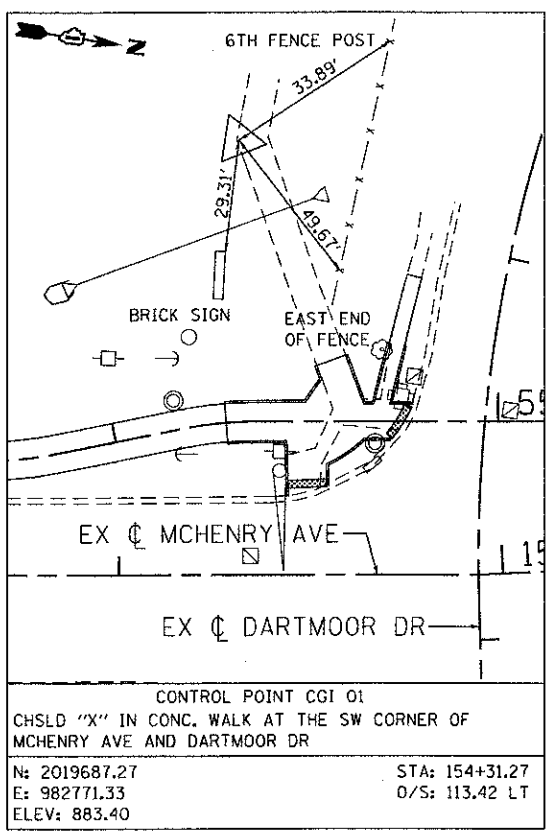
PI STA. = 53+74.40
 $\Delta = 11^\circ 12' 02''$ (LT)
 D = 57' 17' 45"
 R = 100.00'
 T = 9.81'
 L = 19.55'
 E = 0.48'
 P.C. STA. = 53+64.60
 P.T. STA. = 53+84.15

PI STA. = 54+27.11
 $\Delta = 11^\circ 12' 02''$ (RT)
 D = 57' 17' 45"
 R = 100.00'
 T = 9.81'
 L = 19.55'
 E = 0.48'
 P.C. STA. = 54+17.30
 P.T. STA. = 54+36.85



NUMBER	DESCRIPTION	STATION	NORTHING	EASTING
2	MCHENRY PI STATION	151+00.00	2019377.45	982934.48
3	MCHENRY PI STATION	154+93.64	2019766.38	982873.77
4	MCHENRY PC STATION	166+33.85	2020882.80	982642.05

LETTER	DESCRIPTION	STATION	NORTHING	EASTING
L	MCHENRY PC STATION	47+88.44	2019064.47	982947.19
M	MCHENRY PT STATION	48+02.02	2019077.76	982944.44
N	MCHENRY PC STATION	48+69.53	2019142.94	982926.88
O	MCHENRY PT STATION	48+82.20	2019155.35	982924.36
P	MCHENRY PC STATION	50+66.96	2019338.39	982899.22
Q	MCHENRY PT STATION	50+83.39	2019354.72	982897.32
R	MCHENRY PC STATION	52+47.80	2019518.37	982881.66
S	MCHENRY PT STATION	52+71.58	2019541.97	982878.69
T	MCHENRY PC STATION	53+64.60	2019633.87	982864.34
U	MCHENRY PT STATION	53+84.15	2019652.77	982859.47
V	MCHENRY PC STATION	54+17.30	2019683.91	982848.09
W	MCHENRY PT STATION	54+36.85	2019702.81	982843.21
X	MCHENRY POT STATION	55+31.63	2019796.45	982828.59



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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6607 North Campbell Avenue, Suite 402
 Chicago, Illinois 60639
 Tel: 773.773.4500 Fax: 773.773.4614
 Email: clorba@clorba.com

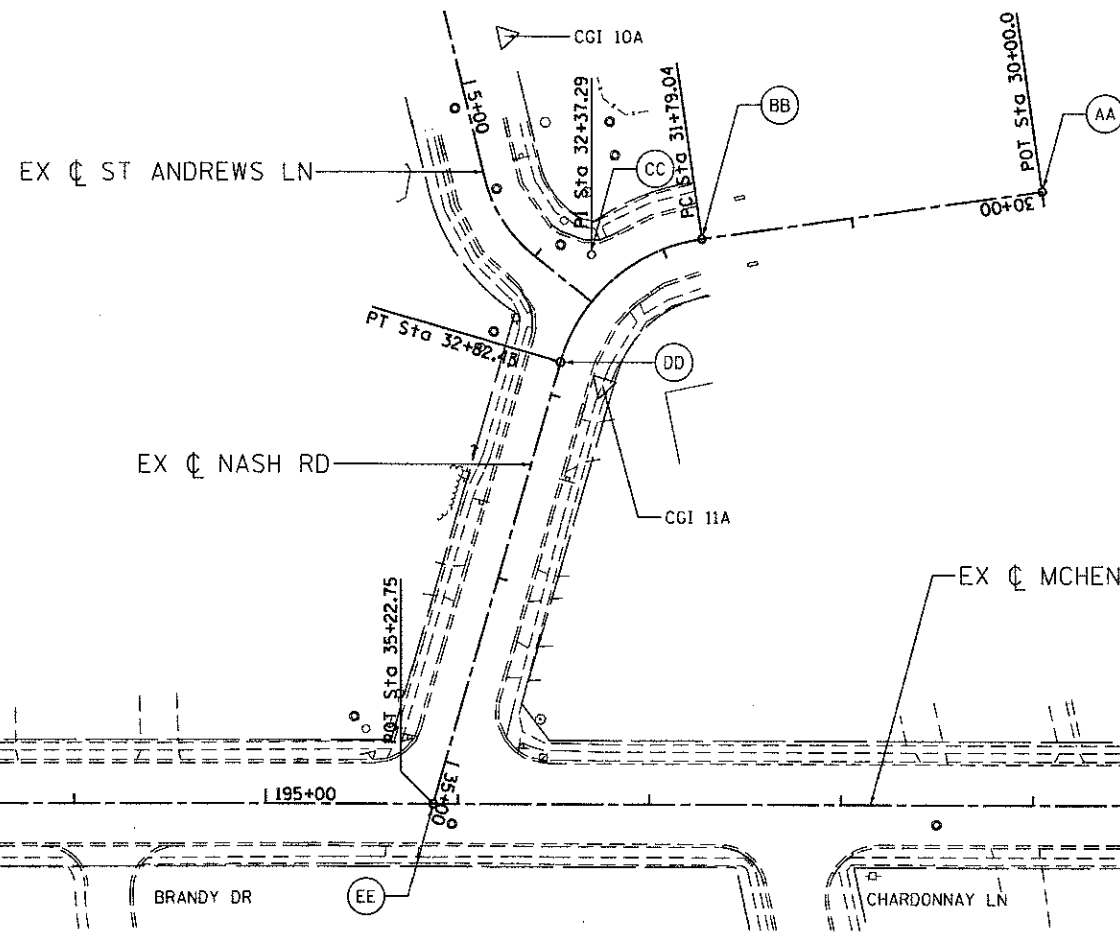
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PLOT SCALE = 50.0000' / in.	DRAWN - AMH	REVISD -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISD -
	DATE - FEBRUARY 4, 2013	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
ALIGNMENT, TIES, AND BENCHMARKS
 SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

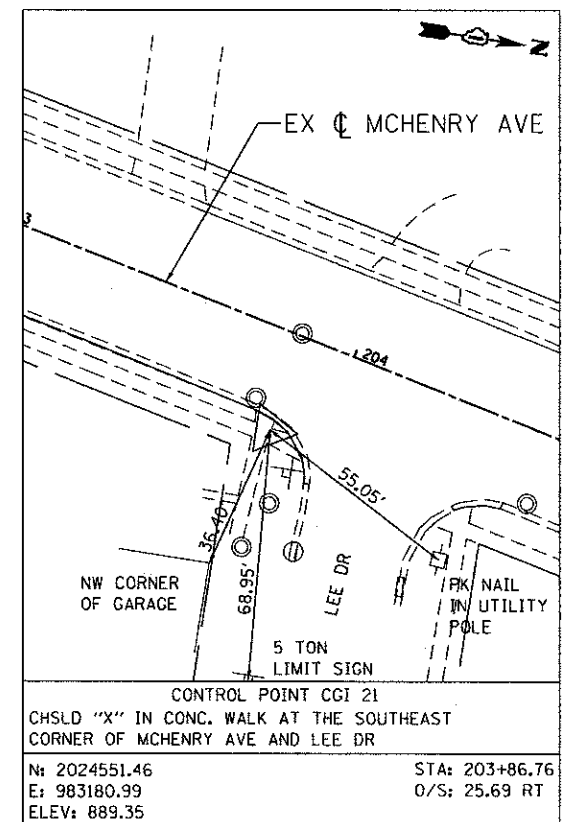
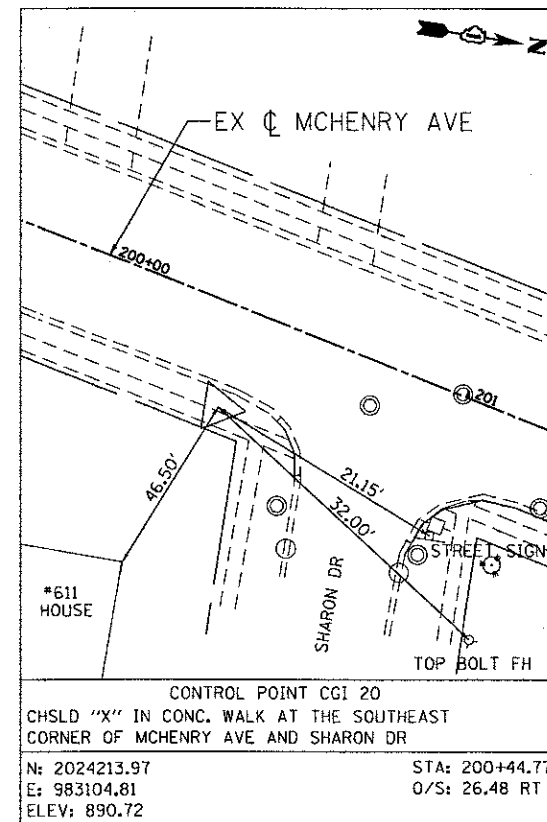
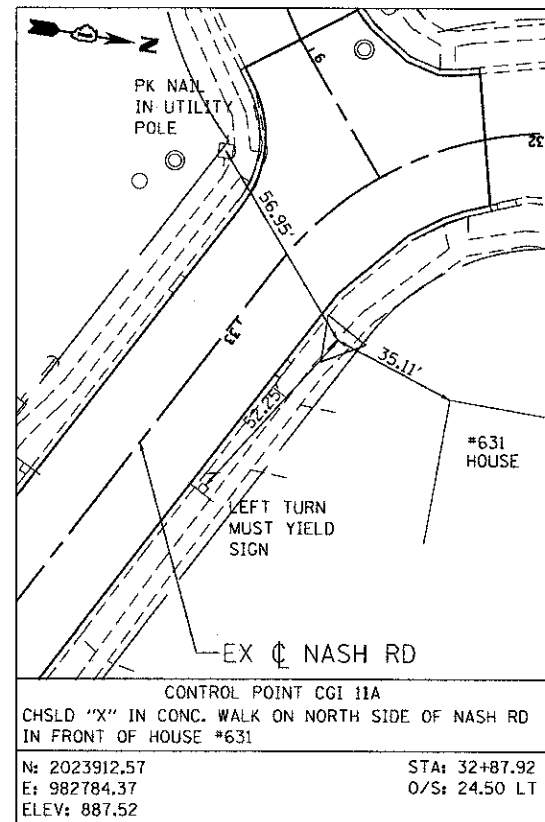
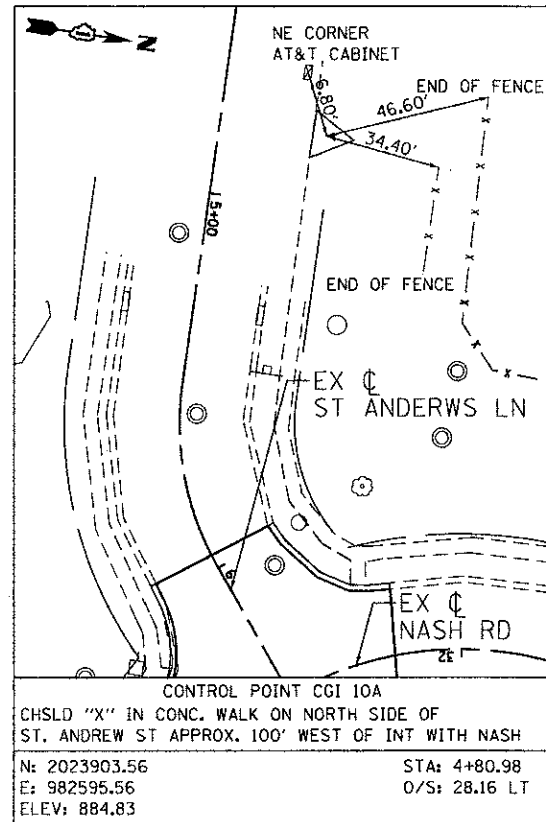
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	17
				CONTRACT NO. 63806
ILLINOIS FED. AID PROJECT				

PROP. CURVE NASH-1
 PI STA. = 32+37.29
 $\Delta = 65^\circ 48' 58''$ (LT)
 $D = 63^\circ 39' 43''$
 $R = 90.00'$
 $T = 58.24'$
 $L = 103.38'$
 $E = 17.20'$
 $\theta = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 31+79.04$
 $P.T. STA. = 32+82.43$



NUMBER	DESCRIPTION	STATION	NORTHING	EASTING
5	MCHENRY PT STATION	176+75.05	2021913.39	982552.79
6	MCHENRY PI STATION	219+10.34	2026042.59	983494.82

LETTER	DESCRIPTION	STATION	NORTHING	EASTING
AA	NASH POT STATION	30+00.00	2024158.41	982736.29
BB	NASH PC STATION	31+79.04	2023979.97	982721.53
CC	NASH PI STATION	32+30.74	2023921.93	982716.73
DD	NASH PT STATION	32+82.43	2023893.77	982767.71
EE	NASH POT STATION	35+22.75	2023777.59	982978.09



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DETOUR PLAN LEGEND	
	WORK ZONE (ROAD CLOSED)
	TYPE III BARRICADE (QUANTITY AS REQUIRED FOR PROPER CLOSURE)
	DETOUR SIGN
	DETOUR ROUTE
1	DETOUR SIGN TYPE

- | | |
|-------------------------|-------------------------|
| 1)
48"x30" | 3)
48"x30" |
| 2)
R11-2
48"x30" | 4) |
| 5)
M4-10R
48"x18" | 6)
M4-10L
48"x18" |
| 7)
M4-8a
24"x18" | |

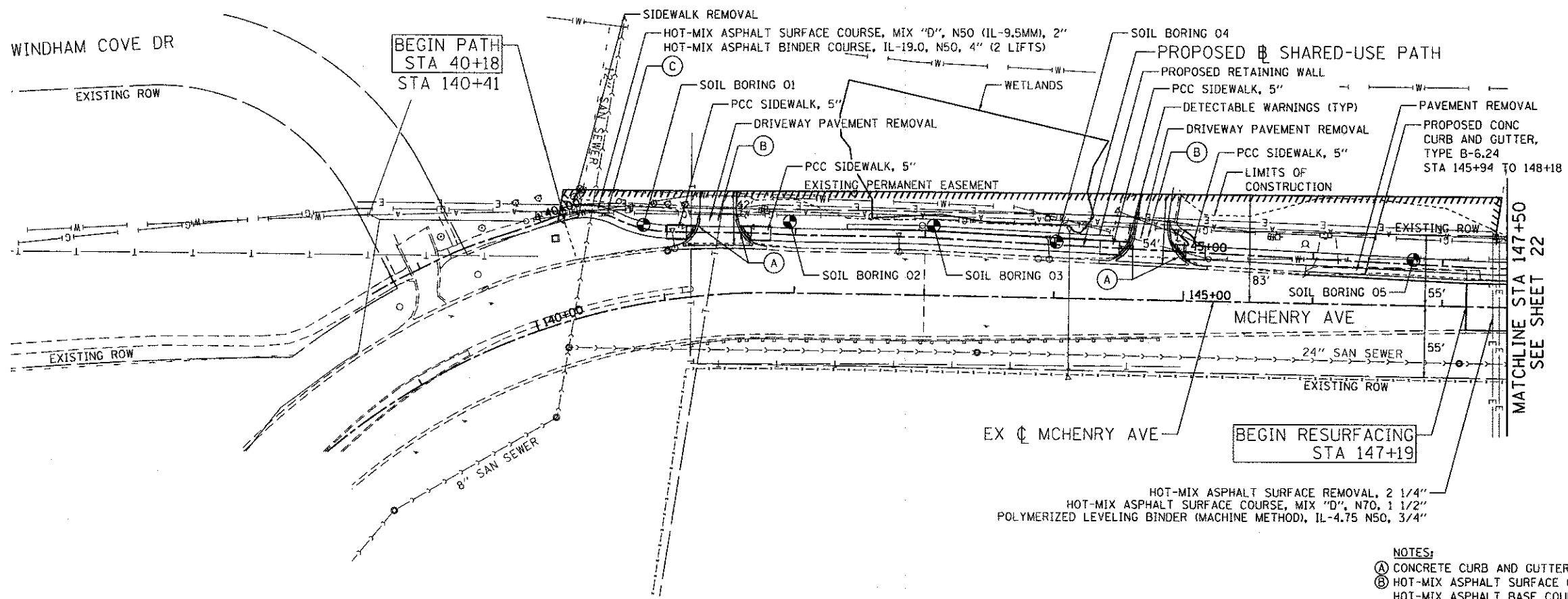
DETOUR PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE CITY OF CRYSTAL LAKE CITY ENGINEER AT (815) 356-3615 A MINIMUM OF 72 HOURS IN ADVANCE OF STARTING WORK.
2. TEMPORARY TRAFFIC CONTROL SIGNS MUST BE INSTALLED AT THE DIRECTION AND UNDER THE SUPERVISION OF THE ENGINEER. 48 HOURS NOTICE SHALL BE GIVEN TO THE ENGINEER, CITY OF CRYSTAL LAKE.
3. ALL TRAFFIC SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER REGARDING LOCATION, TYPE, SIZE, NUMBER AND DURATION.
4. SEE STANDARD 701901 FOR TYPICAL SIGN INSTALLATIONS.
5. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.
6. ONE 11' LANE SHALL BE MAINTAINED ON NASH RD USING STANDARD 701501 DURING THE CONSTRUCTION OF THE STORM SEWER ACROSS ST ANDREWS LN.
7. CLOSURES SHALL NOT OCCUR BETWEEN THE DATE OF JULY 15TH, 2013 TO JULY 7TH, 2013.
8. CLOSURE SHALL OCCUR BETWEEN THE HOURS OF 9AM AND 3PM



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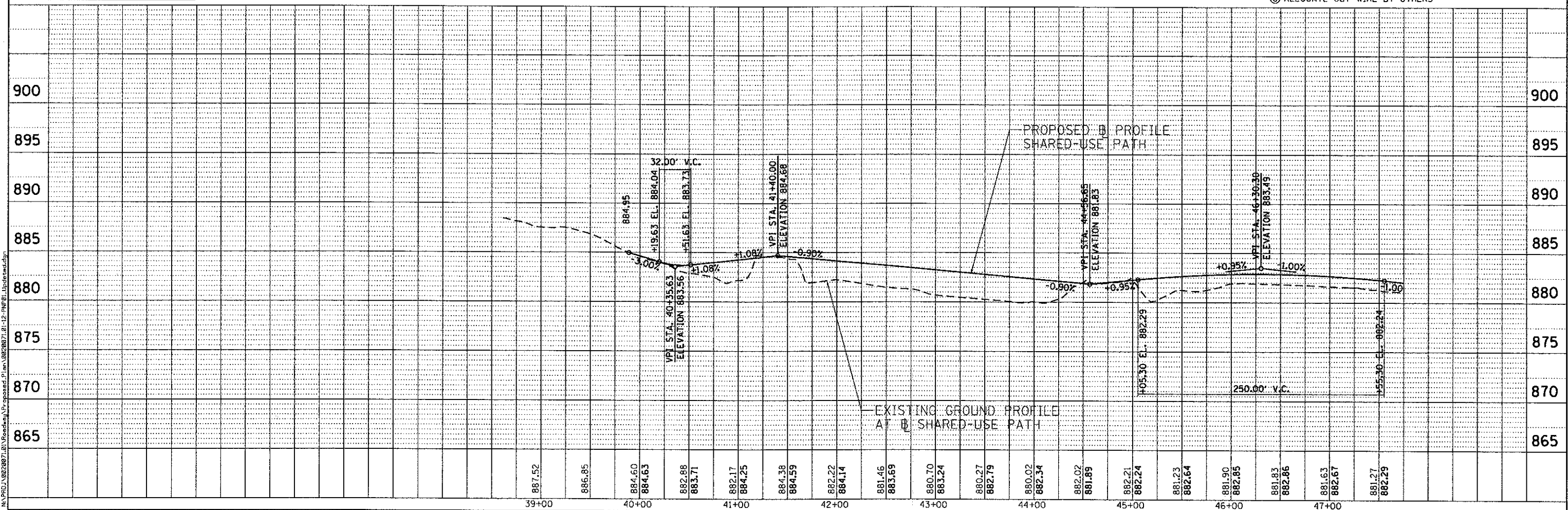
 Gluba Group, Inc. CONSULTING ENGINEERS 5907 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.773.4114 Fax: 773.773.4014 Email: cgluba@glubagroup.com	USER NAME = sharrn	DESIGNED = RJR	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE DETOUR PLAN ST ANDREWS LANE				F.A.U. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 19
	PLOT SCALE = 50.0000' / 1" =	CHECKED = MRJ	REVISED =		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 63806 [ILLINOIS] FED. AID PROJECT					
	PLOT DATE = 2/22/2013	DATE = FEBRUARY 4, 2013	REVISED =										



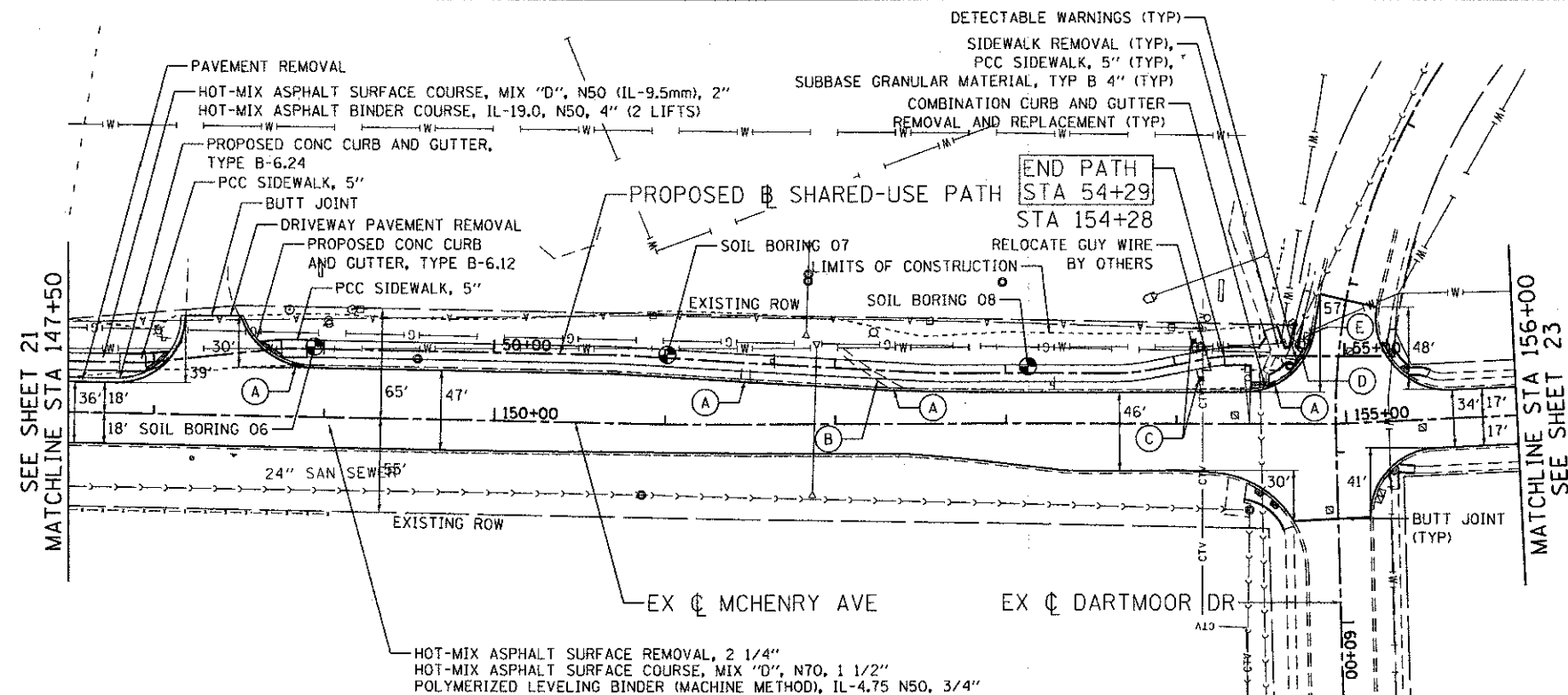
SEE SHEET 30 FOR INTERSECTION CURB RAMP DETAILS

SIDE CURB IS INCIDENTAL TO PCC SIDEWALK, 5"

- NOTES:
- (A) CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
 - (B) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
 - (C) HOT-MIX ASPHALT BASE COURSE, IL-19.0mm, 6" PE, 8" CE
 - (C) RELOCATE GUY WIRE BY OTHERS



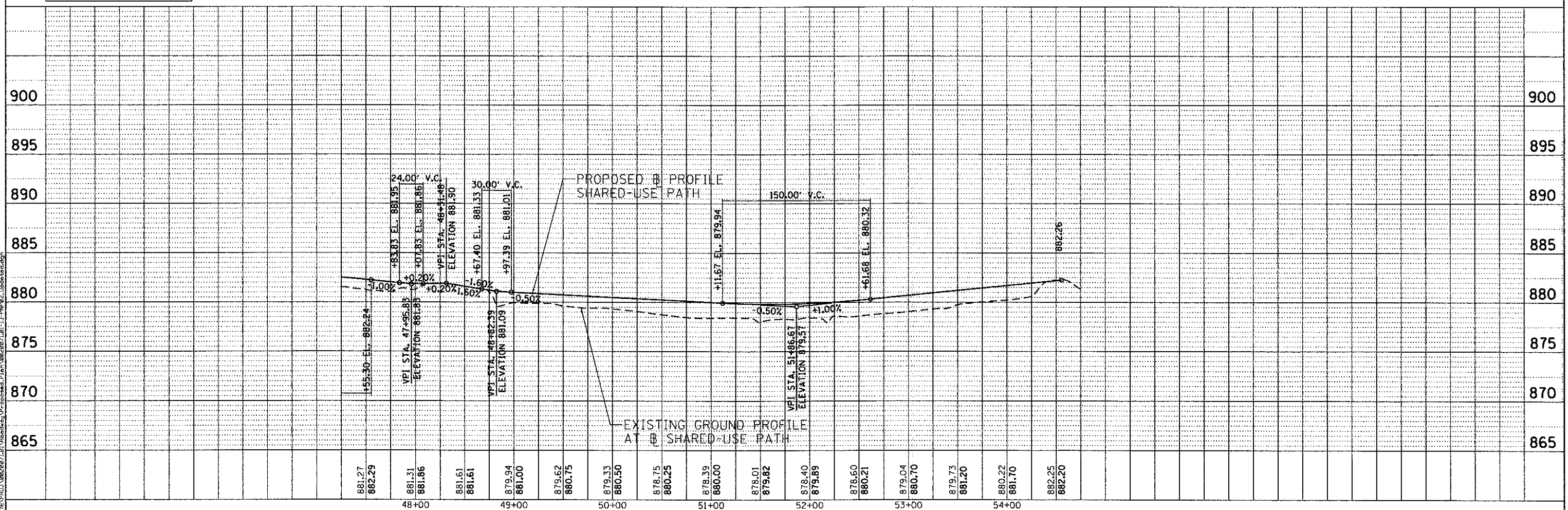
<p>ENGINEERING CONSULTANT</p> <p>Clorba Group, Inc.</p> <p>CONSULTING ENGINEERS</p> <p>6527 North Cicero Avenue, Suite 402</p> <p>Chicago, Illinois 60631</p> <p>Tel: 773.775.8509 Fax: 773.775.4914</p> <p>Email: chicago@clorba.com</p>	USER NAME - eharrn PLOT SCALE - 50.0000' / 1" = PLOT DATE - 2/22/2013	DESIGNED - RJR DRAWN - AMH CHECKED - MRJ DATE - FEBRUARY 4, 2013	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE PROPOSED PLAN AND PROFILE	F.A.U. RTE. 120 SECTION 11-00115-00-RS COUNTY MCHENRY TOTAL SHEETS 62 SHEET NO. 21 CONTRACT NO. 63806	SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
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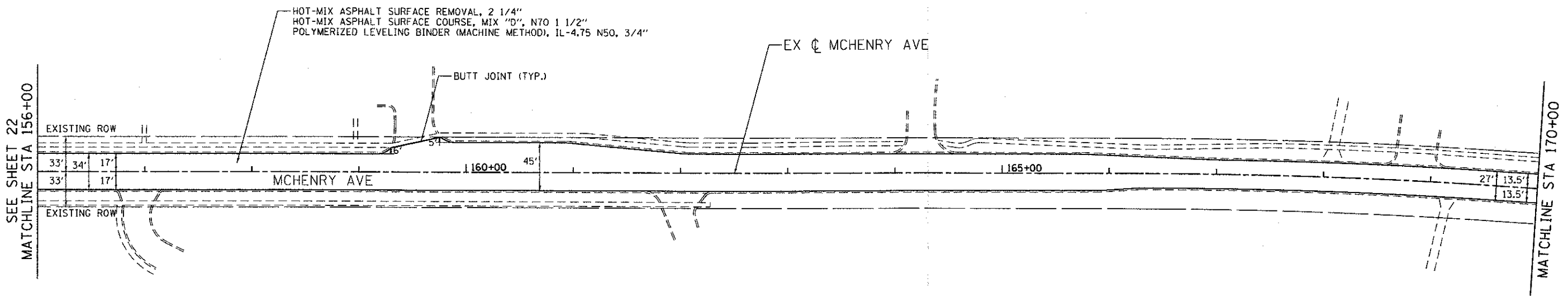
SEE SHEET 30 FOR
INTERSECTION CURB RAMP DETAILS

SIDE CURB IS INCIDENTAL TO
PCC SIDEWALK, 5"

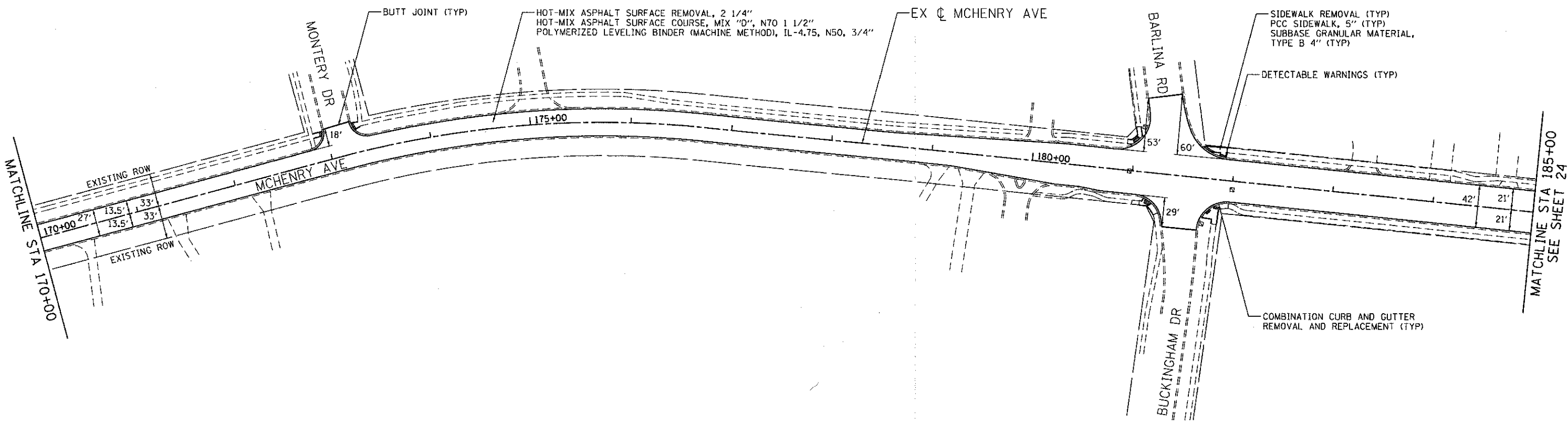
- NOTES:
- (A) CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
 - (B) PAVED DITCH REMOVAL
 - (C) SIGN PANEL-TYPE I AND METAL POST TYPE A
 - (D) RELOCATE EXISTING PEDESTRIAN PUSH BUTTON
 - (E) REBUILD EXISTING HANDHOLE



	ENGINEERING CONSULTANT	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE PROPOSED PLAN AND PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = aharr PLOT SCALE = 50.0000' / in. PLOT DATE = 2/22/2013	DRAWN - AMH CHECKED - MRJ DATE - FEBRUARY 4, 2013	REVISED - REVISED - REVISED - REVISED -			120	11-00115-00-RS	MCHENRY	62	22

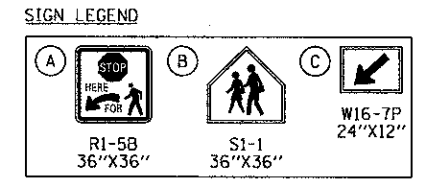
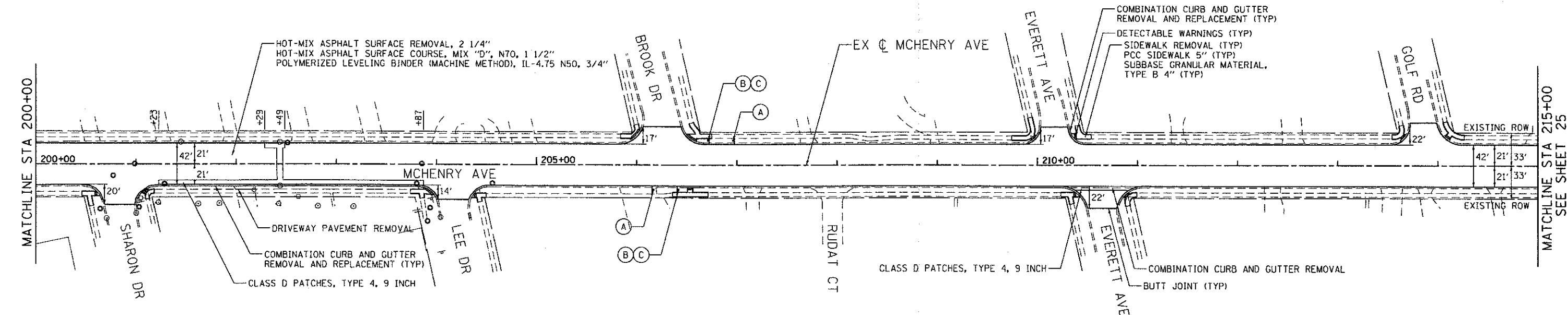
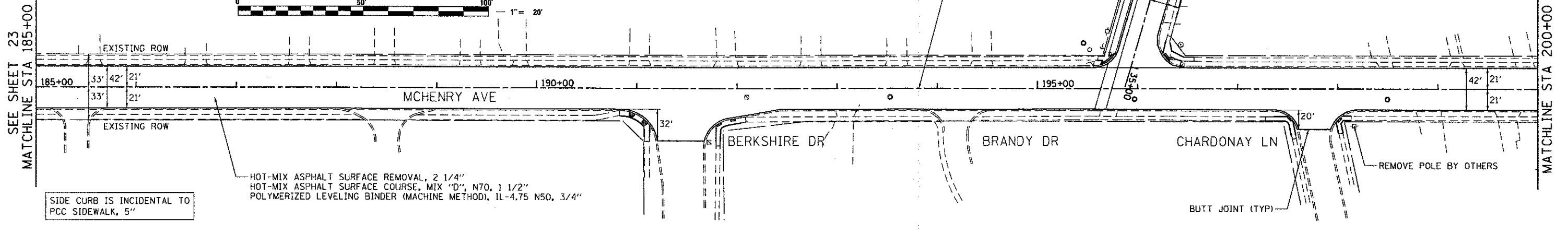
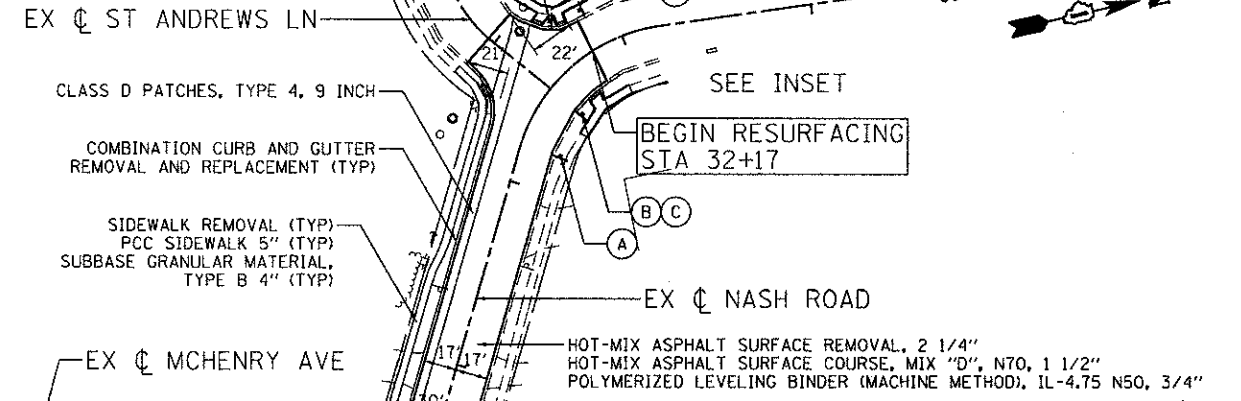
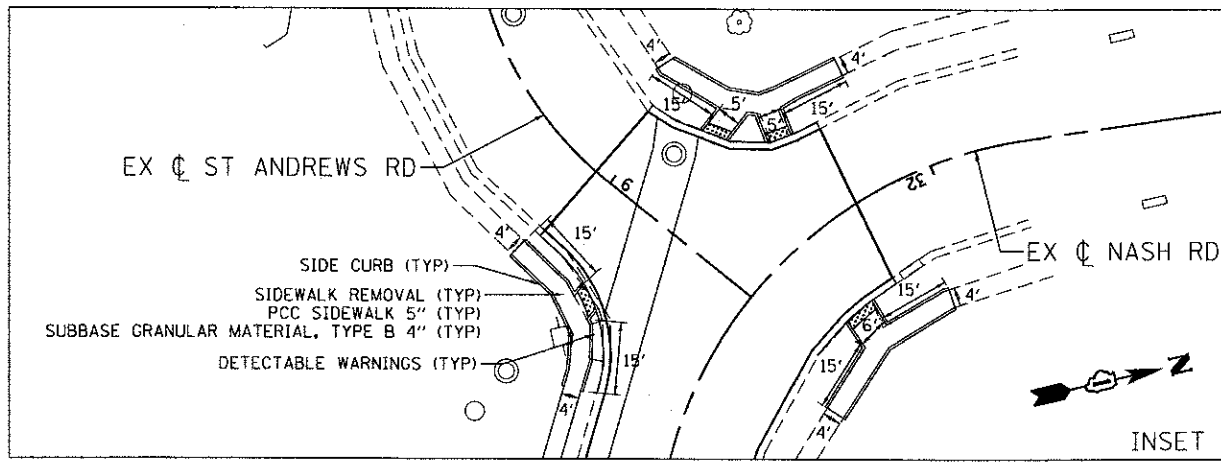


SIDE CURB IS INCIDENTAL TO PCC SIDEWALK, 5"



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ENGINEERING CONSULTANT Clorba Group, Inc. CONSULTING ENGINEERS 6507 North Cumberland Avenue, Suite 402 Chicago, IL 60631 Tel: 773.776.4000 Fax: 773.776.4014 Email: clorba@clorba.com	USER NAME = aharr	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE PROPOSED PLAN		F.A.L. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 23
	PLOT SCALE = 50.0000' / in.	CHECKED - MRJ	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 63806 <small>ILLINOIS FED. AID PROJECT</small>			
	PLOT DATE = 2/22/2013	DATE - FEBRUARY 4, 2013	REVISED -								



ENGINEERING CONSULTANT

Clorba Group, Inc.

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USER NAME = aham

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DATE - FEBRUARY 4, 2013

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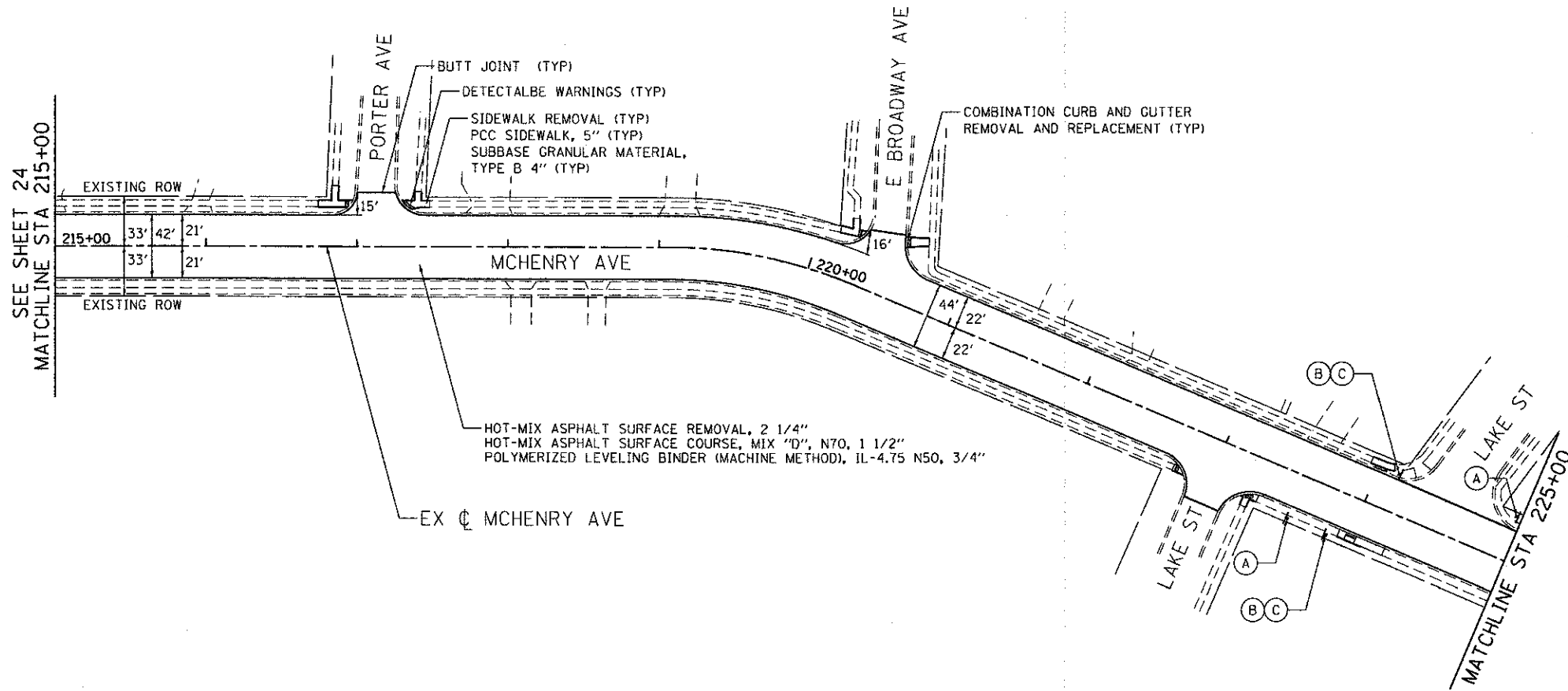
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
PROPOSED PLAN

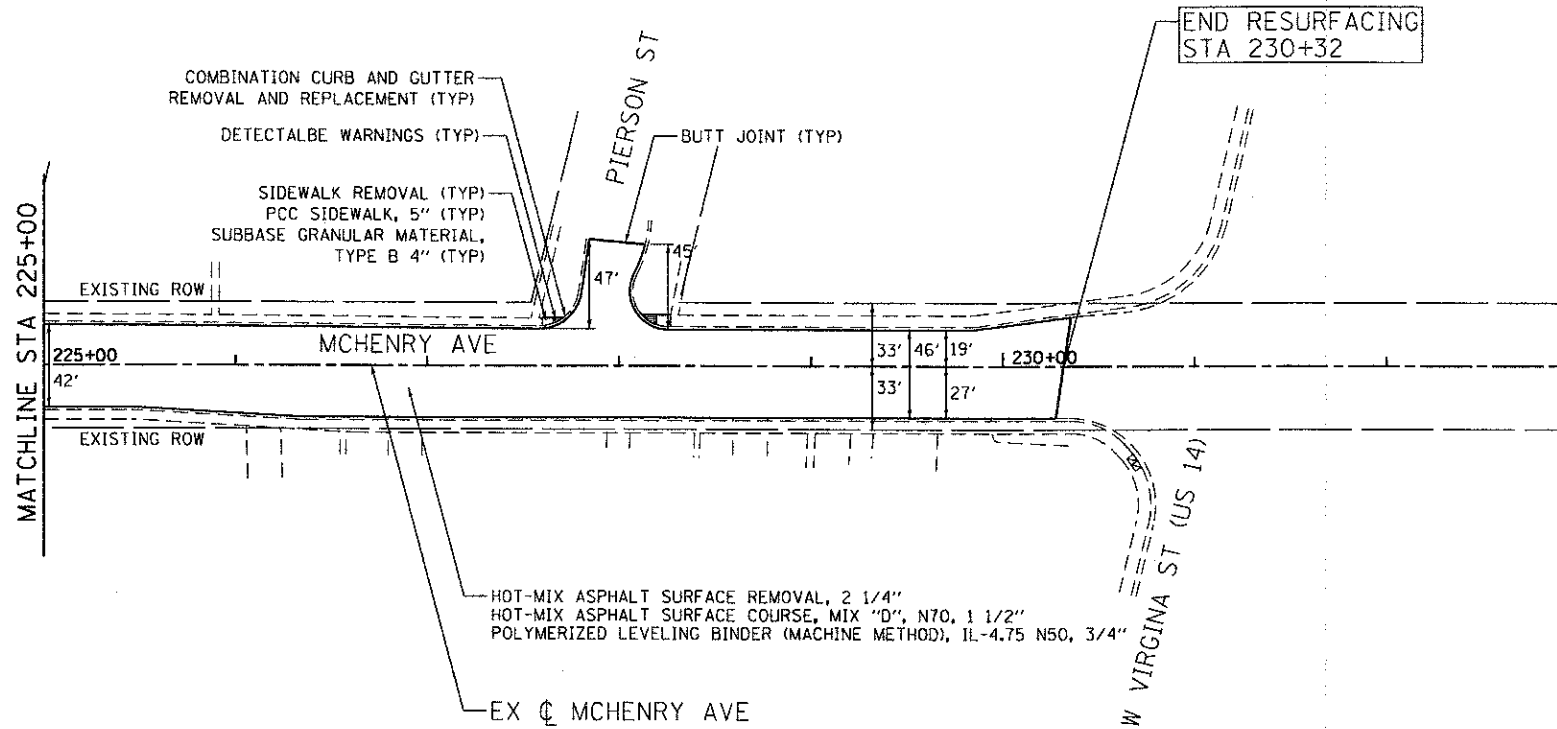
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SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	24
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

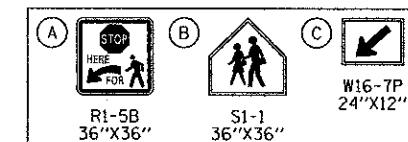


SIDE CURB IS INCIDENTAL TO PCC SIDEWALK, 5"



END RESURFACING STA 230+32

SIGN LEGEND



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Clorba Group, Inc.
 CONSULTING ENGINEERS
 1507 North Cumberland Avenue, Suite 402
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USER NAME = ahern	DESIGNED - RJR	REVISED -
PLOT SCALE = 50.0000' / 1"	DRAWN - AMH	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

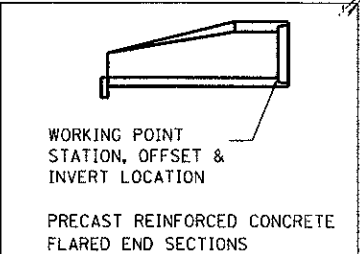
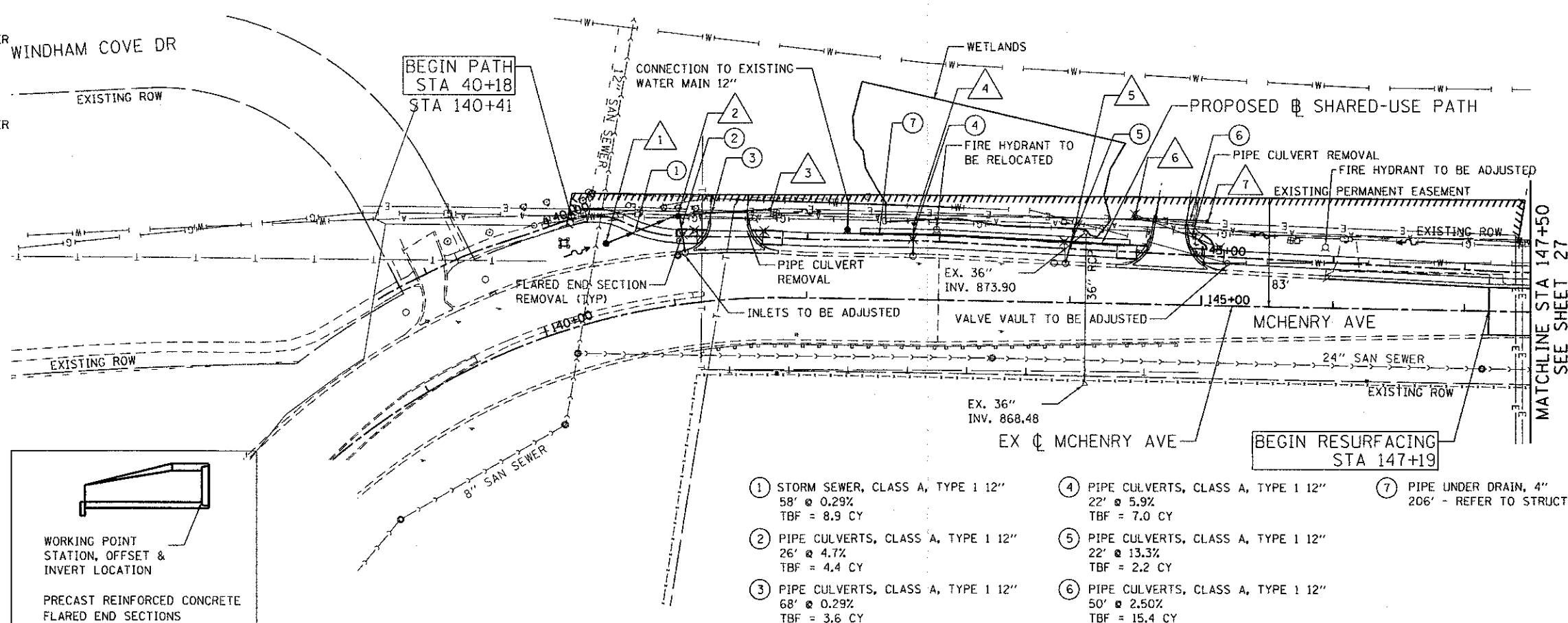
MCHENRY AVENUE
PROPOSED PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

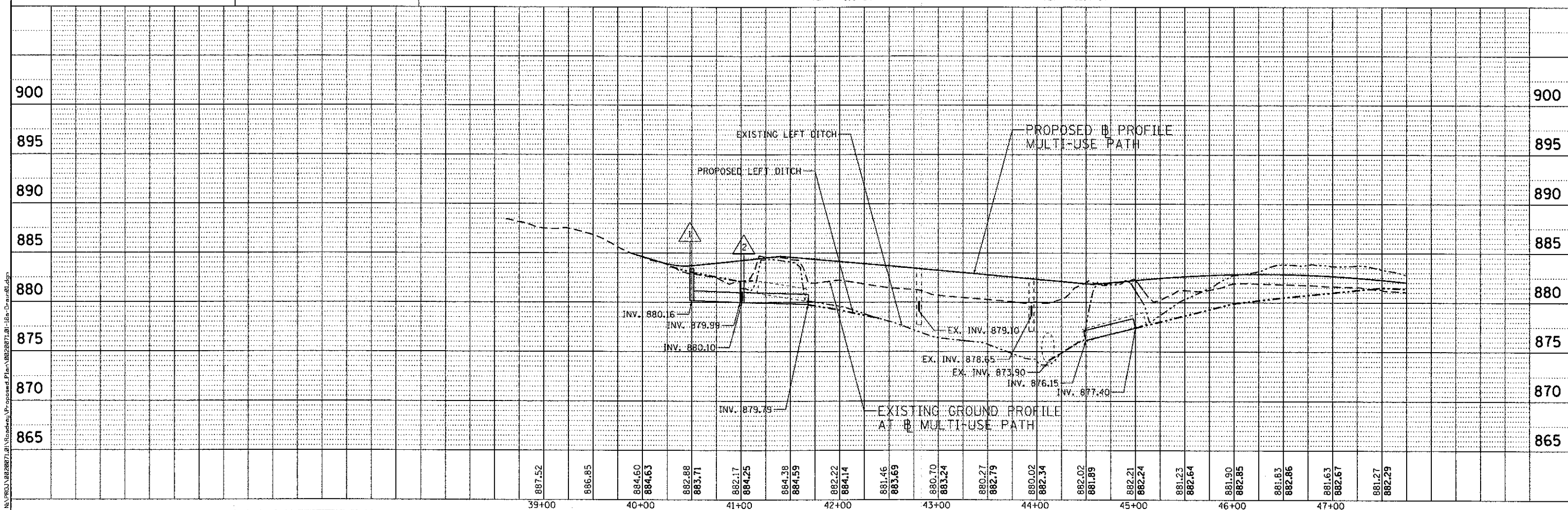
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	25
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				



- 1 40+50 / 20' RT
CATCH BASINS, TYPE A, 4'-DIAMETER
TYPE B GRATE
RIM = 883.41
INV. = 880.16
- 2 41+01 / 15.3' LT
CATCH BASINS, TYPE A, 4'-DIAMETER
TYPE B GRATE
RIM = 882.15
INV. = 879.99 (N/SE)
INV. = 880.10 (E)
- 3 41+68 / 21.3' LT
PRECAST REINFORCED CONCRETE
FLARED END SECTIONS 12"
INV. = 879.79
- 4 42+80 / 10.5' LT
PRECAST REINFORCED CONCRETE
FLARED END SECTIONS 12"
INV. = 877.81
- 5 44+01 / 10.5' LT
PRECAST REINFORCED CONCRETE
FLARED END SECTIONS 12"
INV. = 875.72
- 6 44+50 / 25.8' LT
PRECAST REINFORCED CONCRETE
FLARED END SECTIONS 12"
INV. = 876.15
- 7 45+00 / 26.6' LT
PRECAST REINFORCED CONCRETE
FLARED END SECTIONS 12"
INV. = 877.40



- 1 STORM SEWER, CLASS A, TYPE 1 12"
58' @ 0.29%
TBF = 8.9 CY
- 2 PIPE CULVERTS, CLASS A, TYPE 1 12"
26' @ 4.7%
TBF = 4.4 CY
- 3 PIPE CULVERTS, CLASS A, TYPE 1 12"
68' @ 0.29%
TBF = 3.6 CY
- 4 PIPE CULVERTS, CLASS A, TYPE 1 12"
22' @ 5.9%
TBF = 7.0 CY
- 5 PIPE CULVERTS, CLASS A, TYPE 1 12"
22' @ 13.3%
TBF = 2.2 CY
- 6 PIPE CULVERTS, CLASS A, TYPE 1 12"
50' @ 2.50%
TBF = 15.4 CY
- 7 PIPE UNDER DRAIN, 4"
206' - REFER TO STRUCTURAL PLAN



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 Email: chicago@glomba.com

USER NAME = ehorn
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 2/22/2013

DESIGNED - RJR
 DRAWN - AMH
 CHECKED - MRJ
 DATE - FEBRUARY 4, 2013

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

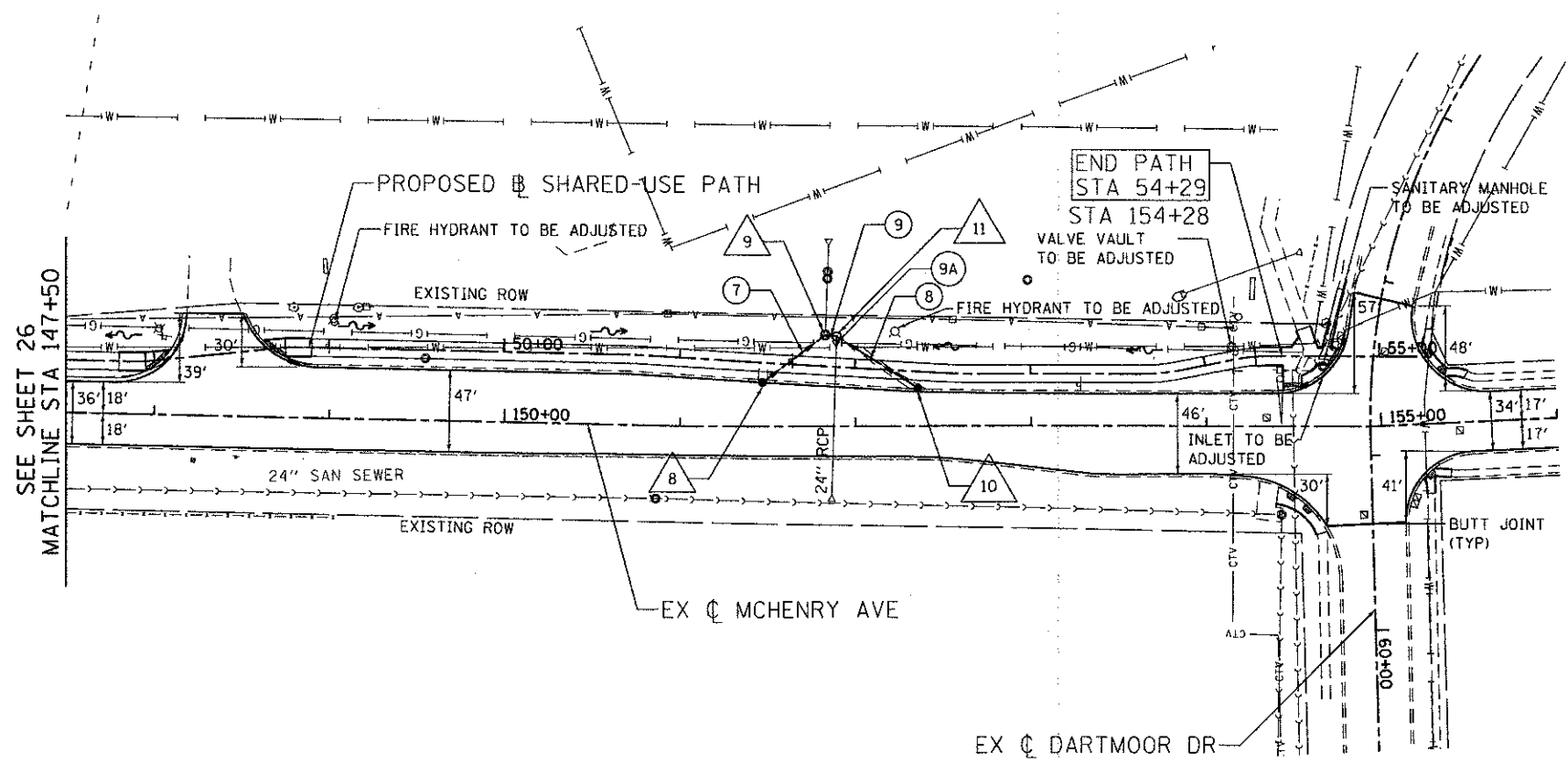
MCHENRY AVENUE
DRAINAGE PLAN AND PROFILE

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

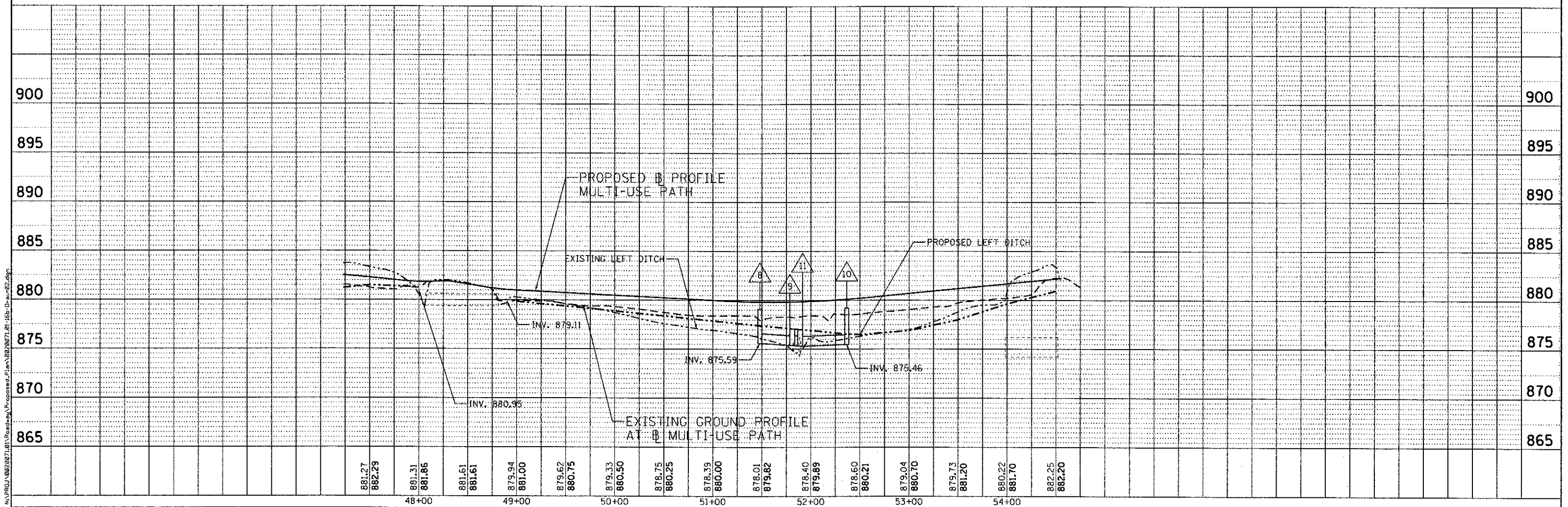
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	26
CONTRACT NO. 63806			ILLINOIS FED. AID PROJECT	



- 8 51+48 / 11.3' RT
CATCH BASINS, TYPE A, 4'-DIAMETER
TYPE 11 FRAME AND GRATE
RIM = 879.11
INV. = 875.59
- 9 STA 51+82, 17.8' LT
MANHOLES, TYPE A 5'-DIAMETER
TYPE 8 GRATE
RIM = 877.04
INV = 875.37 (SE)
INV = 874.65 (W)
INV = 874.24 (N)
- 10 52+37 / 11.5' RT
CATCH BASINS, TYPE A, 4'-DIAMETER
TYPE 11 FRAME AND GRATE
RIM = 879.20
INV. = 875.46
- 11 STA 51+89, 17.4' LT
MANHOLES, TYPE A 5'-DIAMETER
TYPE 8 GRATE
RIM = 877.00
INV = 874.23 (EXS)
INV = 875.30 (NE)

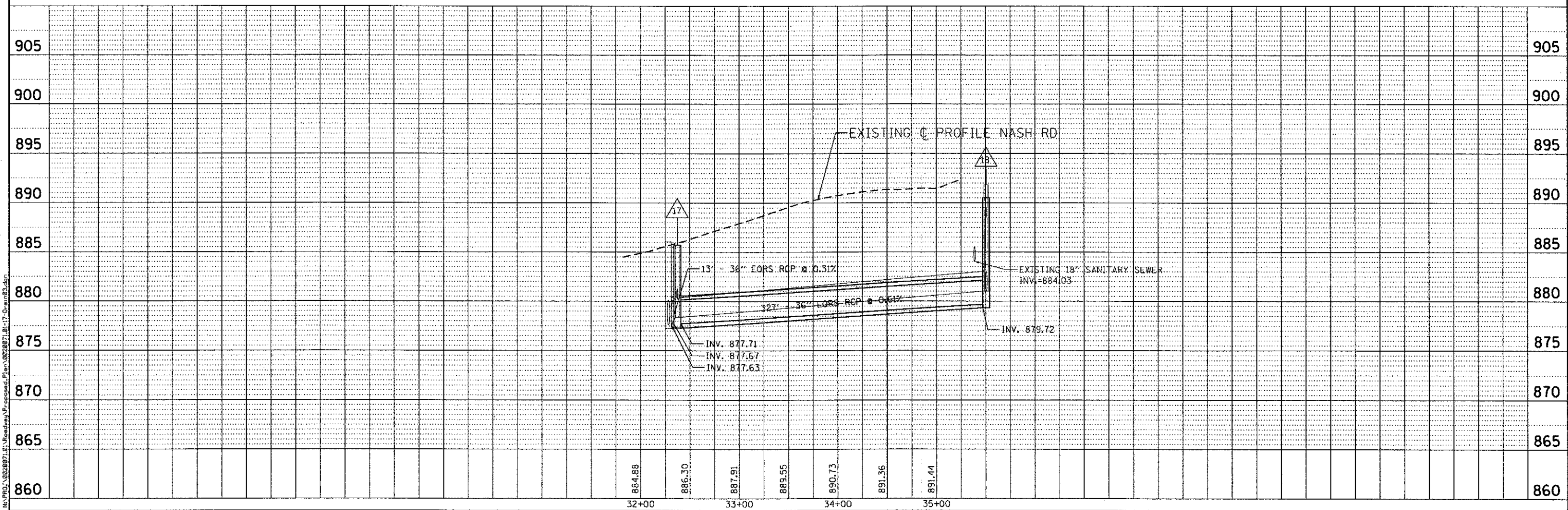
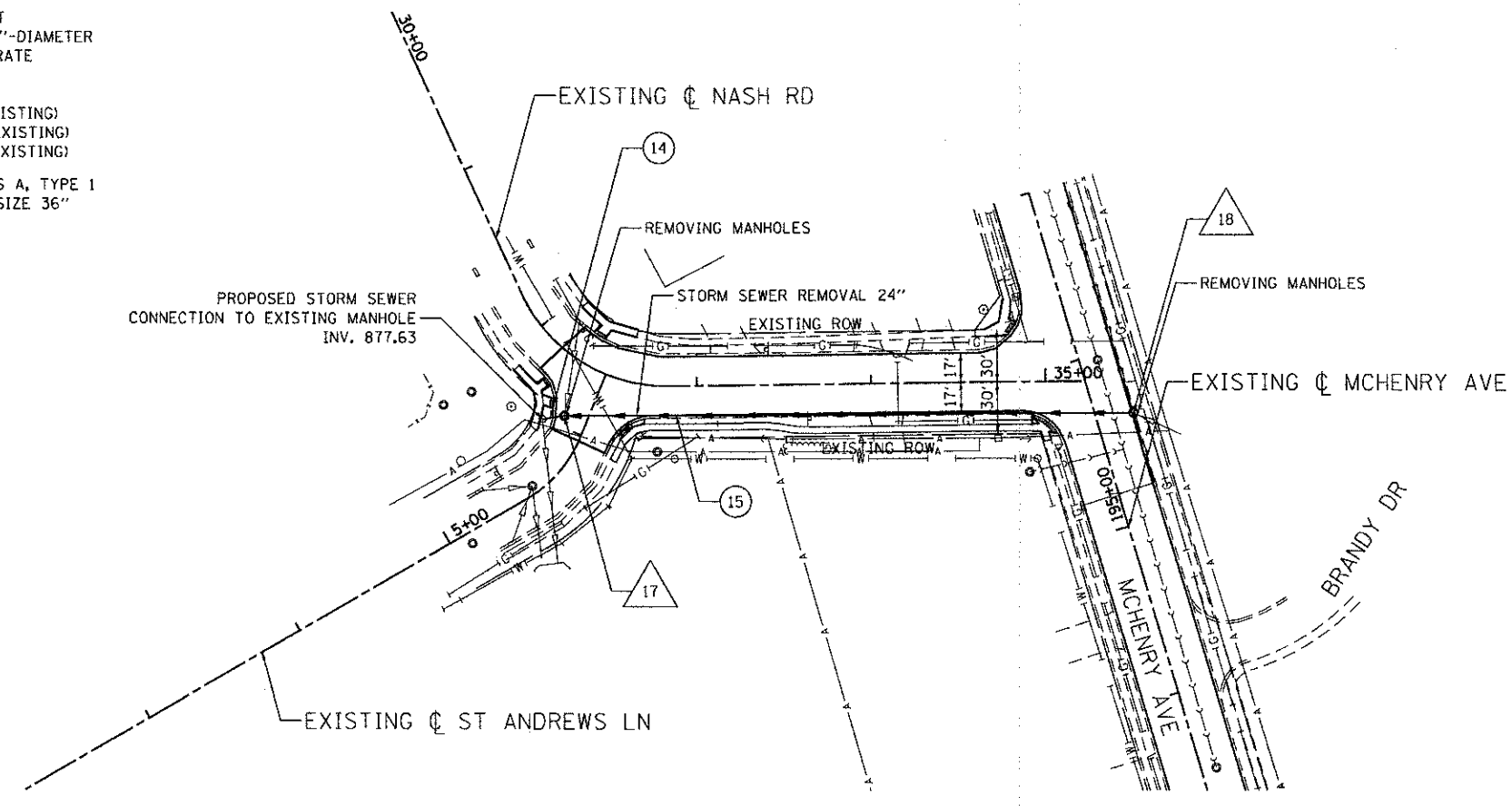


- 7 STORM SEWER, CLASS A, TYPE 1 12"
45' @ 0.49%
TBF = 6.4 CY
- 8 STORM SEWER, CLASS A, TYPE 1 12"
55' @ 0.29%
TBF = 8.5 CY
- 9 STORM SEWER, CLASS A, TYPE 1 12"
7' @ 0.14%
TBF = 1 CY
- 9A PIPE CULVERTS, CLASS A, TYPE 1 24"
6' @ 0.96%
TBF = 1 CY
CONNECT TO EXISTING 24" CULVERT
(INCLUDED)



ENGINEERING CONSULTANT	USER NAME = ahorn	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE DRAINAGE PLAN AND PROFILE	F.A.U. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 27	
	PLOT SCALE = 50.0000' / 1" =	DRAWN - AMH	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 63806				
5987 North Cumberland Avenue, Suite 402 Chicago, Illinois 60652 Tel: 773-778-4500 Fax: 773-778-4014 Email: glomba@glomba.com	PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -		ILLINOIS FED. AID PROJECT						
		DATE - FEBRUARY 4, 2013	REVISED -								

- △ 17 STA 32+37, 31.9' RT
MANHOLES, TYPE A 7'-DIAMETER
TYPE 1 FRAME CLOSED LID
RIM = 885.73
INV = 877.71 (E)
INV = 877.67 (W)
INV = 880.23 (N) (EXISTING)
- △ 18 STA 195+62, 21.5' RT
MANHOLES, TYPE A 7'-DIAMETER
TYPE 11 FRAME & GRATE
RIM = 891.82
INV = 879.82 (W)
INV = 881.02 (N) (EXISTING)
INV = 883.32 (SE) (EXISTING)
INV = 888.52 (S) (EXISTING)
- ⑭ STORM SEWER, CLASS A, TYPE 1
EQUIVALENT ROUND SIZE 36"
13' @ 0.31%
TBF = 5.4 CY
- ⑮ STORM SEWER, CLASS A, TYPE 1
EQUIVALENT ROUND SIZE 36"
327' @ 0.61%
TBF = 564.0 CY



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USER NAME = ahorn	DESIGNED - RJR	REVISED -
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PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
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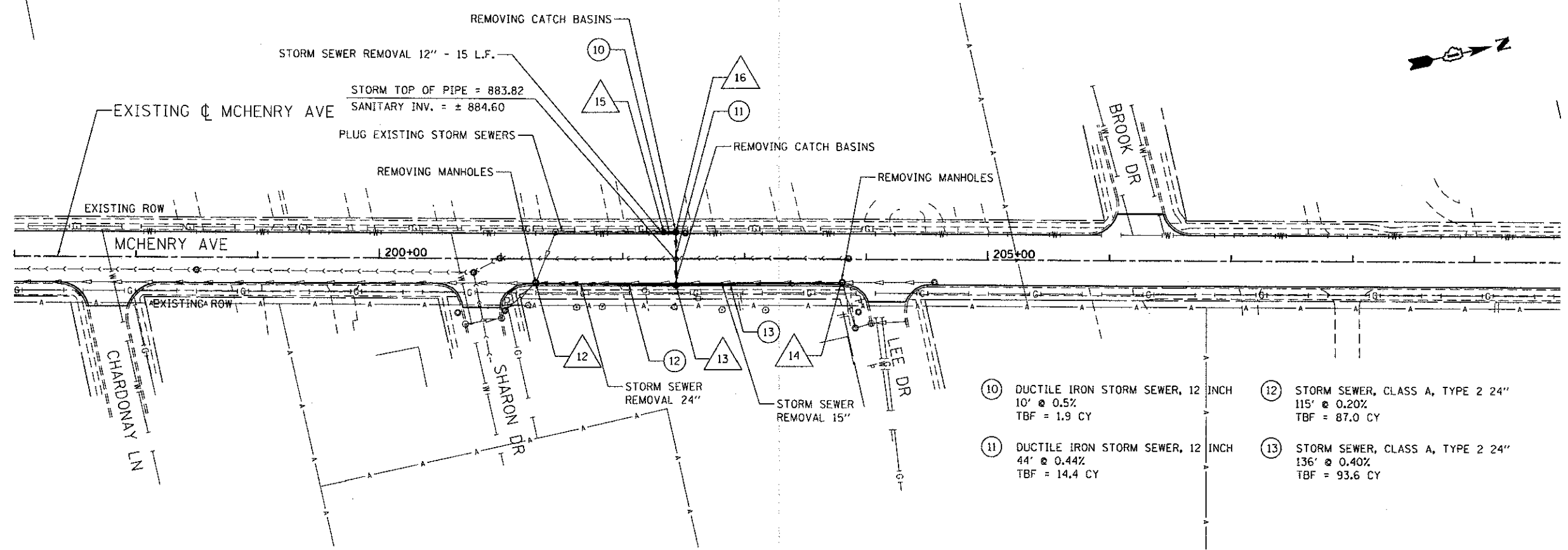
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MCHENRY AVENUE
DRAINAGE PLAN AND PROFILE**

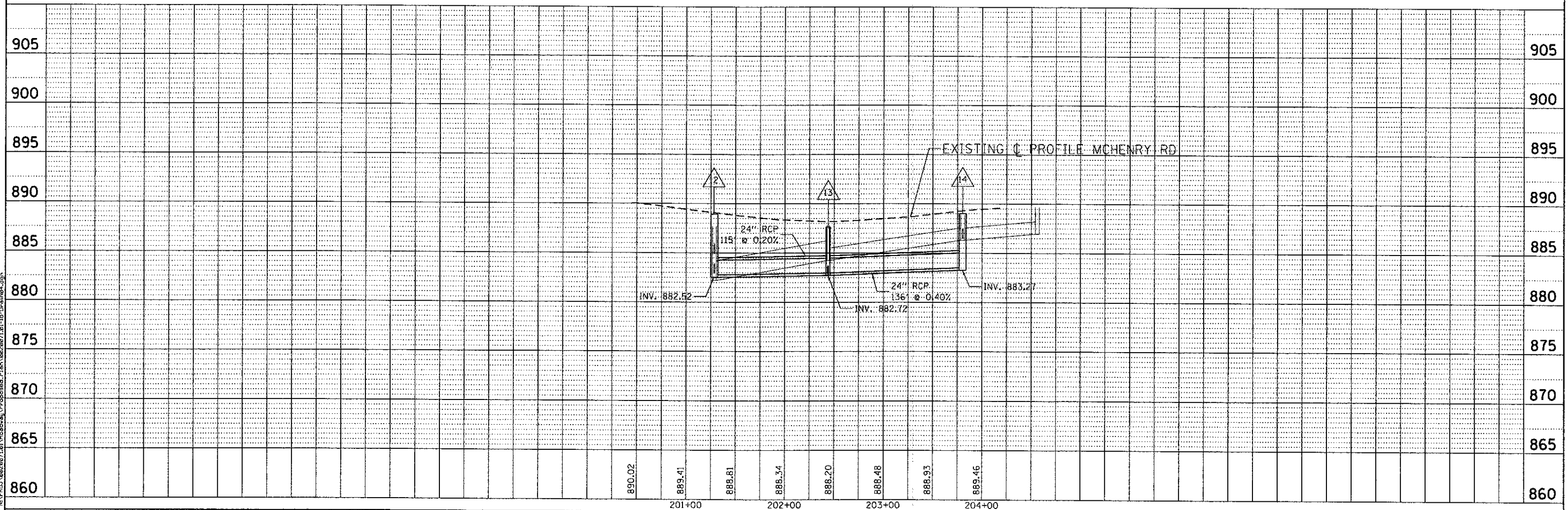
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 28
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

- 12 STA 201+28, 19.7' RT
MANHOLES, TYPE A 7'-DIAMETER
TYPE 1 FRAME CLOSED LID
RIM = 888.92
INV = 884.92 (SE) (EXISTING)
INV = 882.92 (NW) (EXISTING)
INV = 882.52 (S) (EXISTING)
INV = 882.52 (N)
- 13 STA 202+44, 20.5' RT
CATCH BASINS, TYPE A, 4-DIAMETER
TYPE 11 FRAME AND GRATE
RIM = 887.64
INV = 882.72 (N,S,W)
- 14 STA 203+80, 19.3' RT
MANHOLES, TYPE A 7'-DIAMETER
TYPE 1 FRAME CLOSED LID
RIM = 889.00
INV = 886.30 (N) (EXISTING)
INV = 883.27 (S)
INV = 886.47 (E) (EXISTING)
- 15 STA 202+34, 21' LT
CATCH BASINS, TYPE C,
TYPE 11 FRAME AND GRATE
RIM = 886.71
INV = 883.71
- 16 STA 202+44, 21' LT
CATCH BASINS, TYPE C,
TYPE 11 FRAME AND GRATE
RIM = 886.71
INV = 883.66 (S)
INV = 882.91 (E)

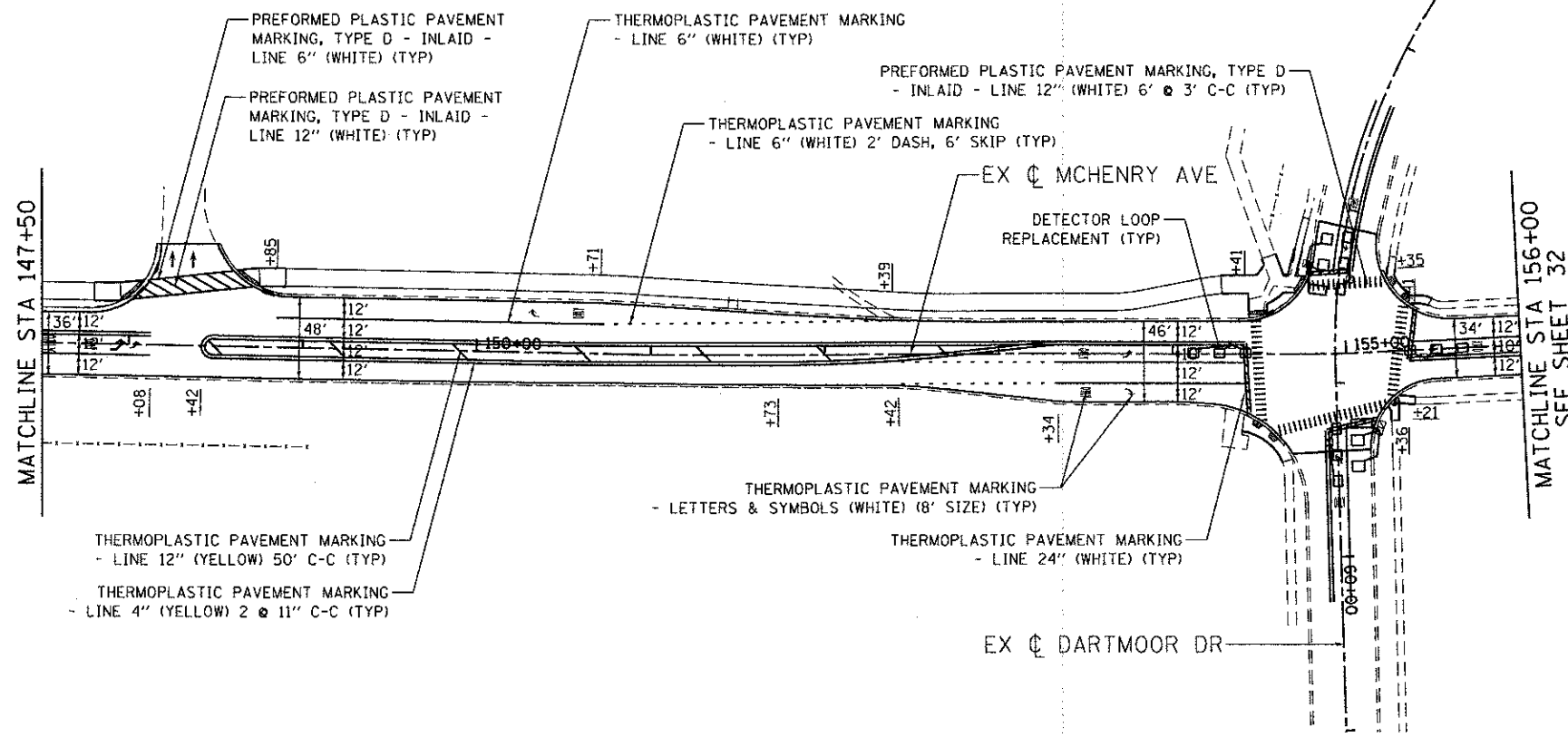
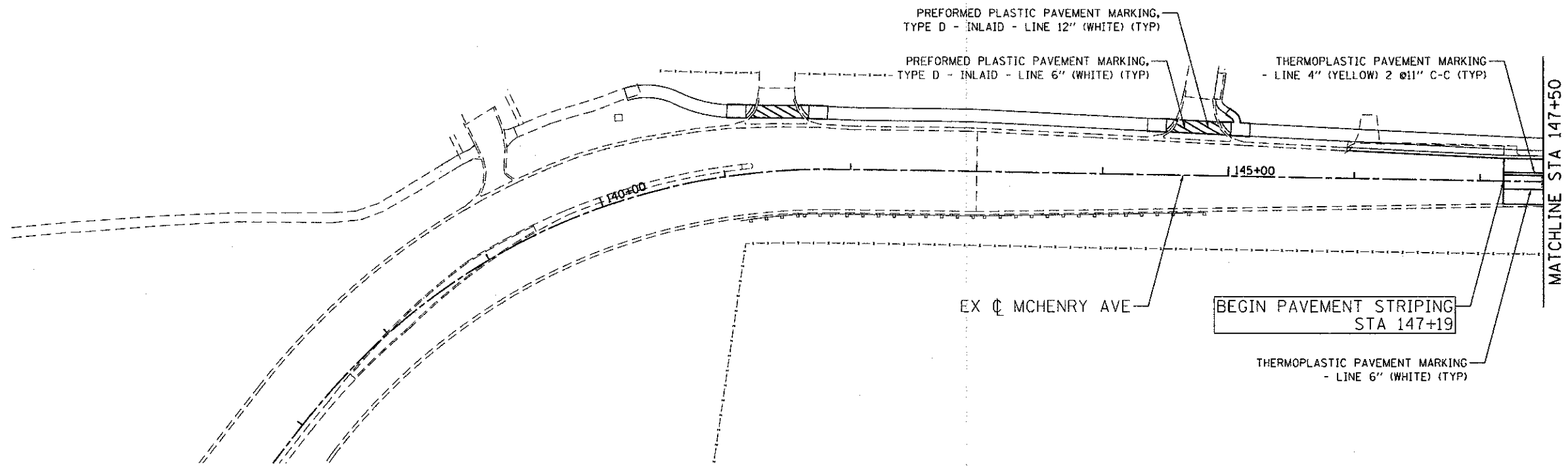


- 10 DUCTILE IRON STORM SEWER, 12 INCH
10' @ 0.5%
TBF = 1.9 CY
- 11 DUCTILE IRON STORM SEWER, 12 INCH
44' @ 0.44%
TBF = 14.4 CY
- 12 STORM SEWER, CLASS A, TYPE 2 24"
115' @ 0.20%
TBF = 87.0 CY
- 13 STORM SEWER, CLASS A, TYPE 2 24"
136' @ 0.40%
TBF = 93.6 CY



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	USER NAME = shorn	DESIGNED - RJR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MCHENRY AVENUE DRAINAGE PLAN AND PROFILE	F.A.J. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 29
	CONSULTING ENGINEERS 6877 North Cumberland Avenue, Suite 402 Chicago, Illinois 60631 Tel: 773-775-6000 Fax: 773-775-4014 Email: info@clorba.com	PLOT SCALE = 50.0000' / in.	DRAWN - AMH			REVISED -	SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.			
	PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -	ILLINOIS FED. AID PROJECT		CONTRACT NO. 63806				
		DATE - FEBRUARY 4, 2013	REVISED -							



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5301 North Cicero Avenue, Suite 402
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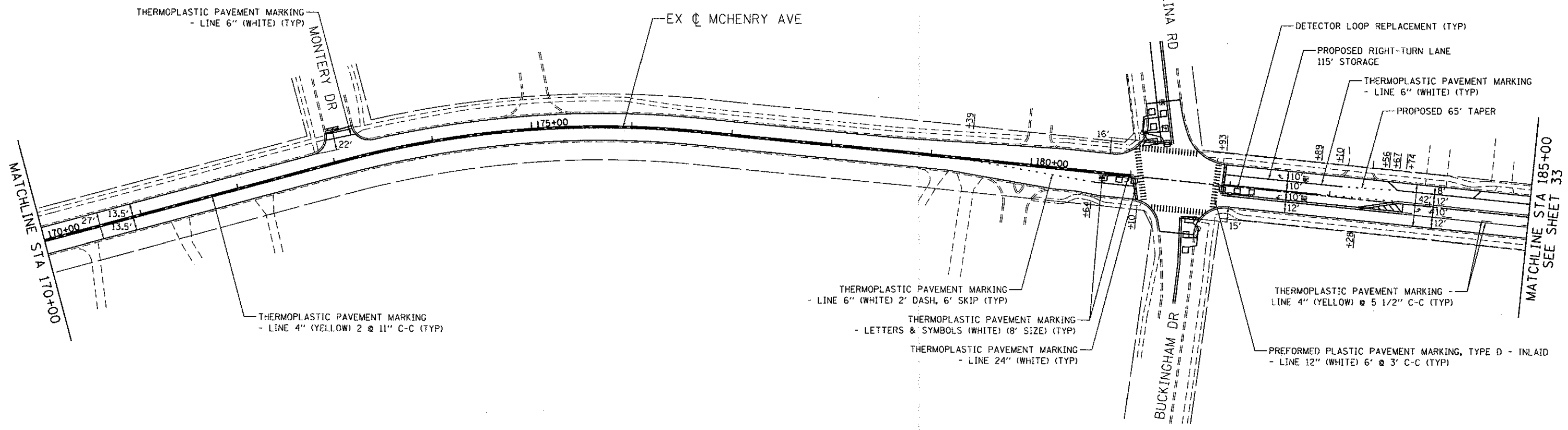
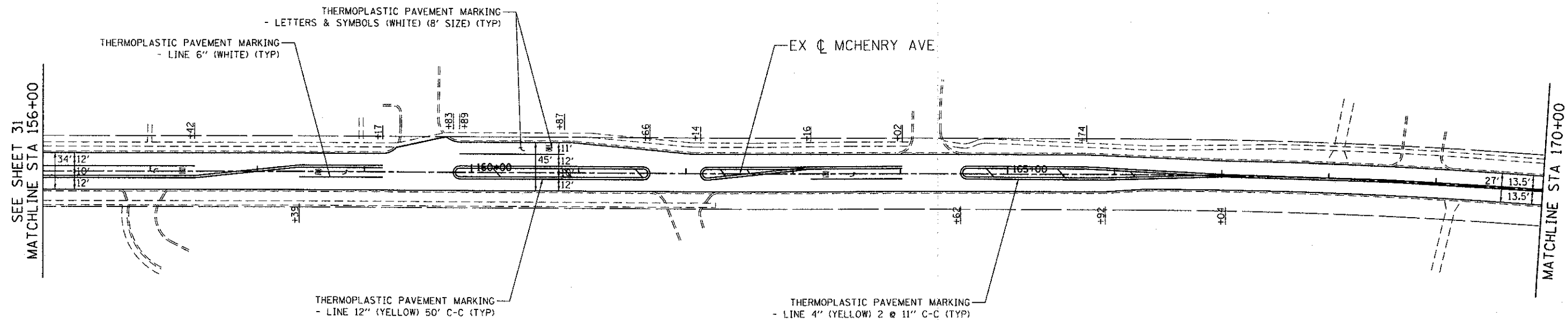
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PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

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DRAWN - AMH	REVISED -
CHECKED - MRJ	REVISED -
DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE PAVEMENT MARKING PLANS			
SCALE: 1" = 50'	SHEET NO. OF	SHEETS	STA. TO STA.

F.A.U. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 31
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				



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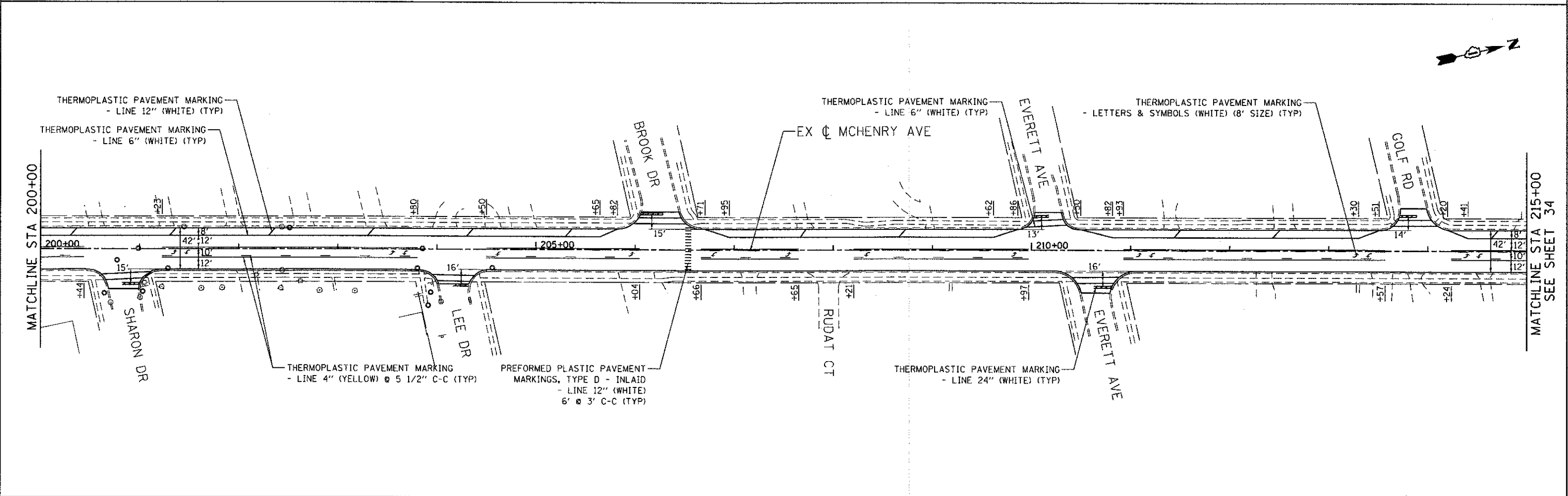
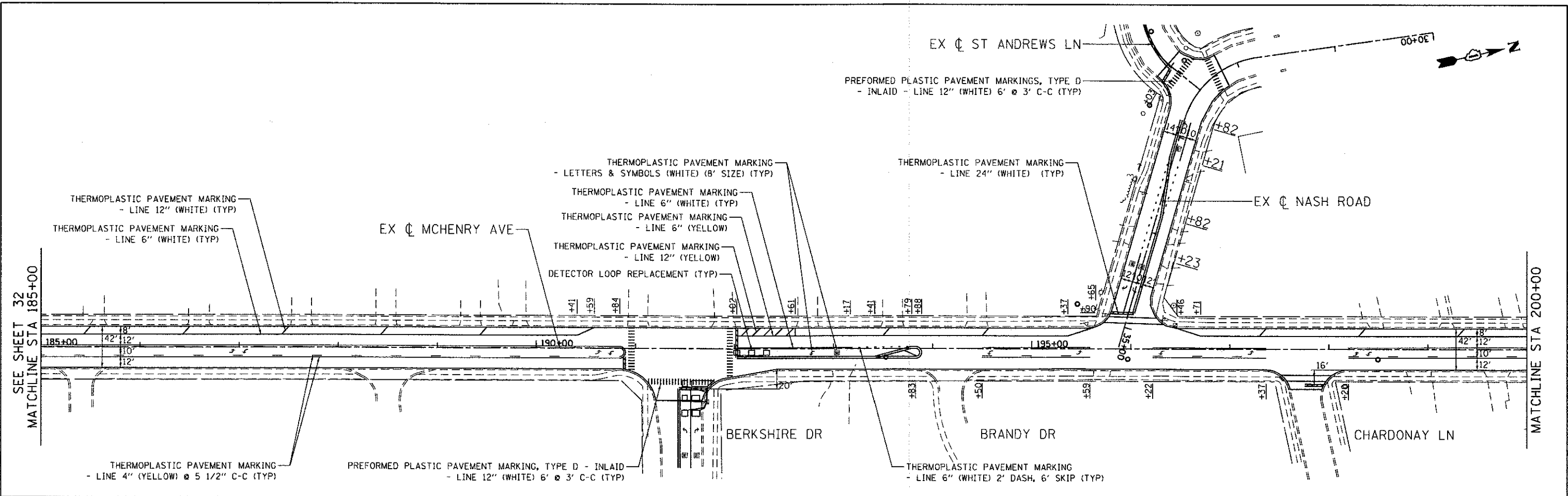
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DRAWN - AMH	REVISIONS
CHECKED - MRJ	REVISIONS
DATE - FEBRUARY 4, 2013	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE PAVEMENT MARKING PLANS			
SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	32
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				



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USER NAME = ehamn	DESIGNED - RJR	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN - AMH	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
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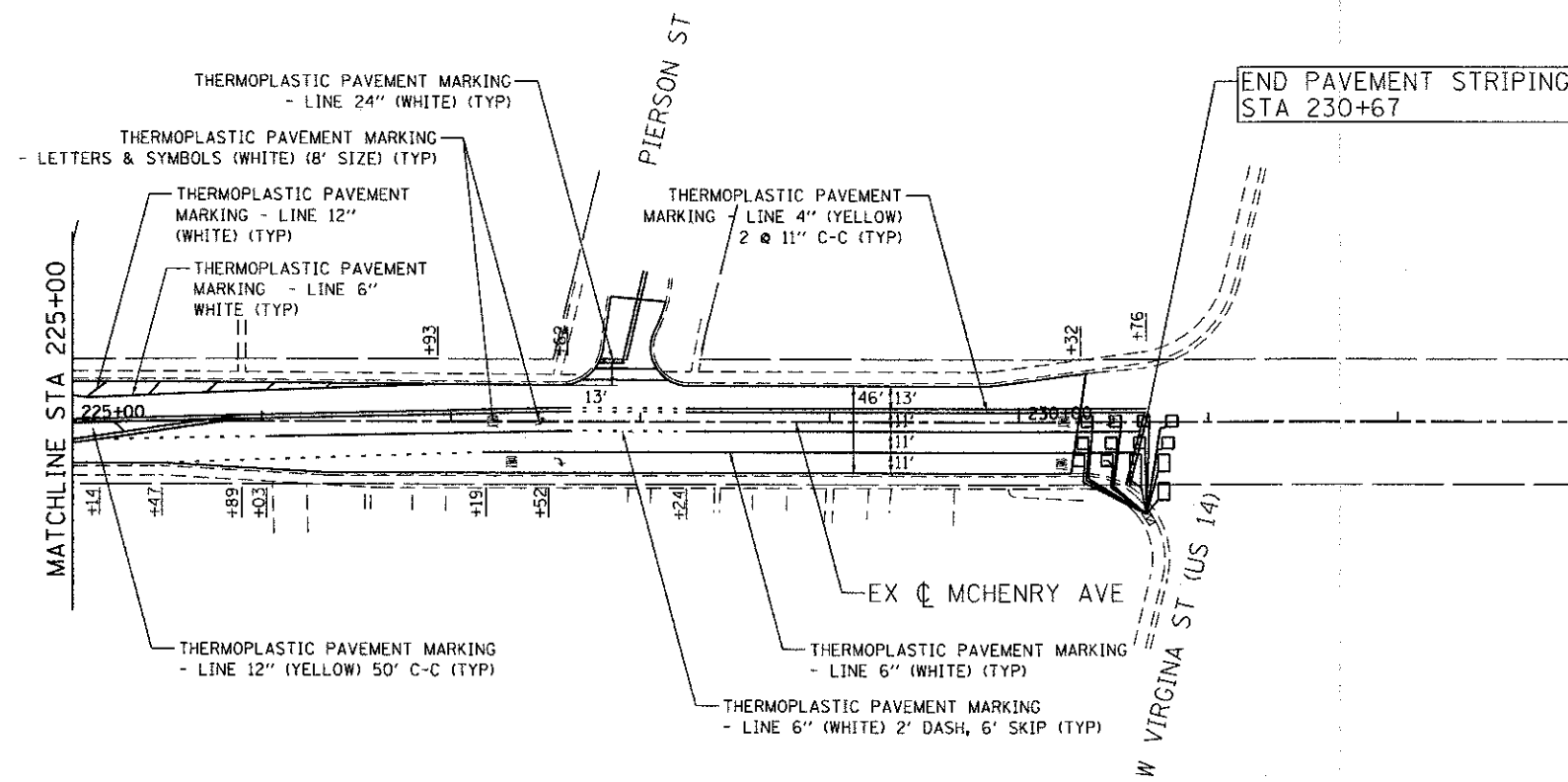
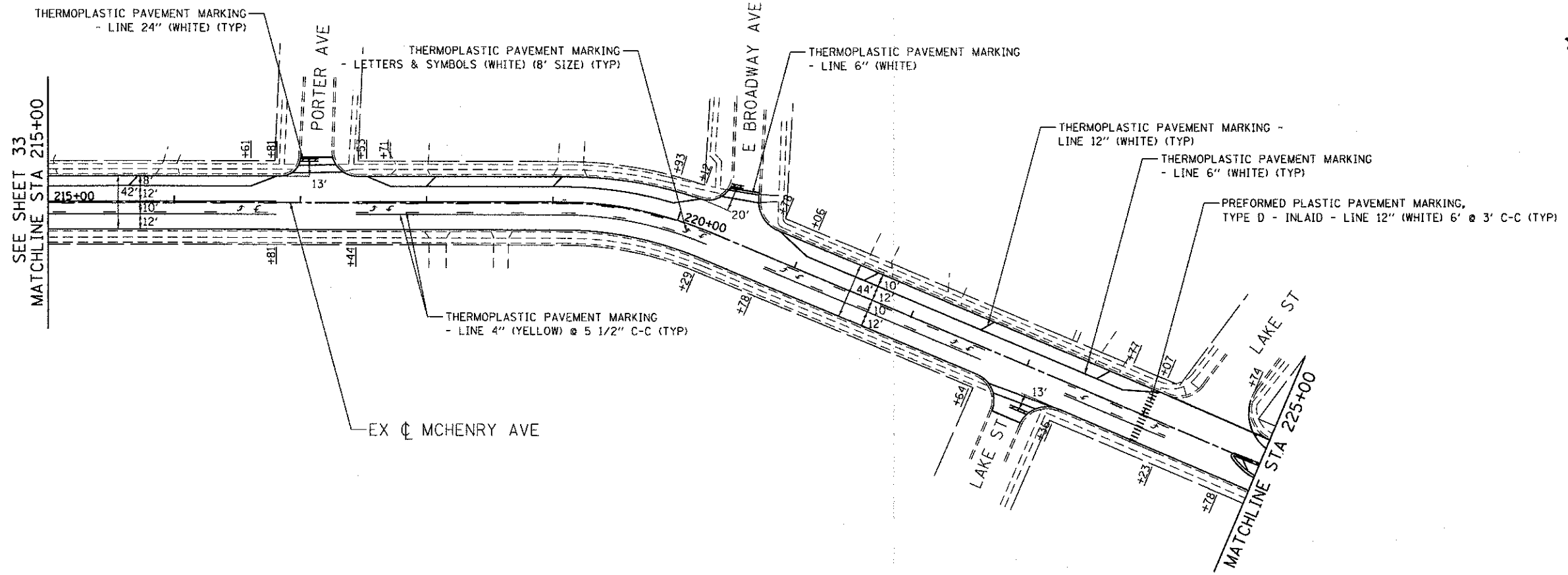
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MCHENRY AVENUE
 PAVEMENT MARKING PLANS**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	33
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

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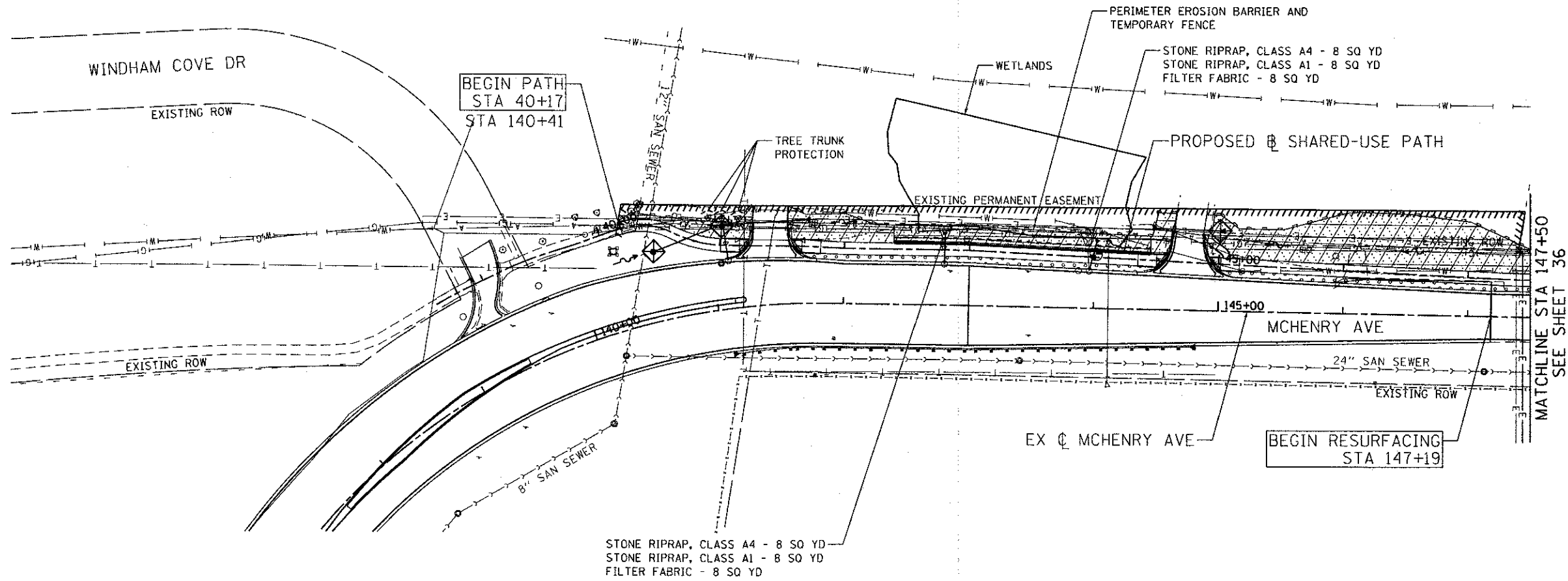
ENGINEERING CONSULTANT
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USER NAME = ahorn	DESIGNED - RJR	REVISED -
PLOT SCALE = 50,0000' / 1"	DRAWN - AMN	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE			
PAVEMENT MARKING PLANS			
SCALE: 1" = 50'	SHEET NO. OF	SHEETS	STA. TO STA.

F.A.U. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 34
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				



LEGEND:

	TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET, SODDING SALT TOLERANT
	TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 4, EROSION CONTROL BLANKET
	PERIMETER EROSION BARRIER AND/OR TEMPORARY FENCE
	INLET AND PIPE PROTECTION
	TREE TRUNK PROTECTION

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USER NAME = ahorn
 PLOT SCALE = 50.0000' / 1" = 50'
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DESIGNED - RJR
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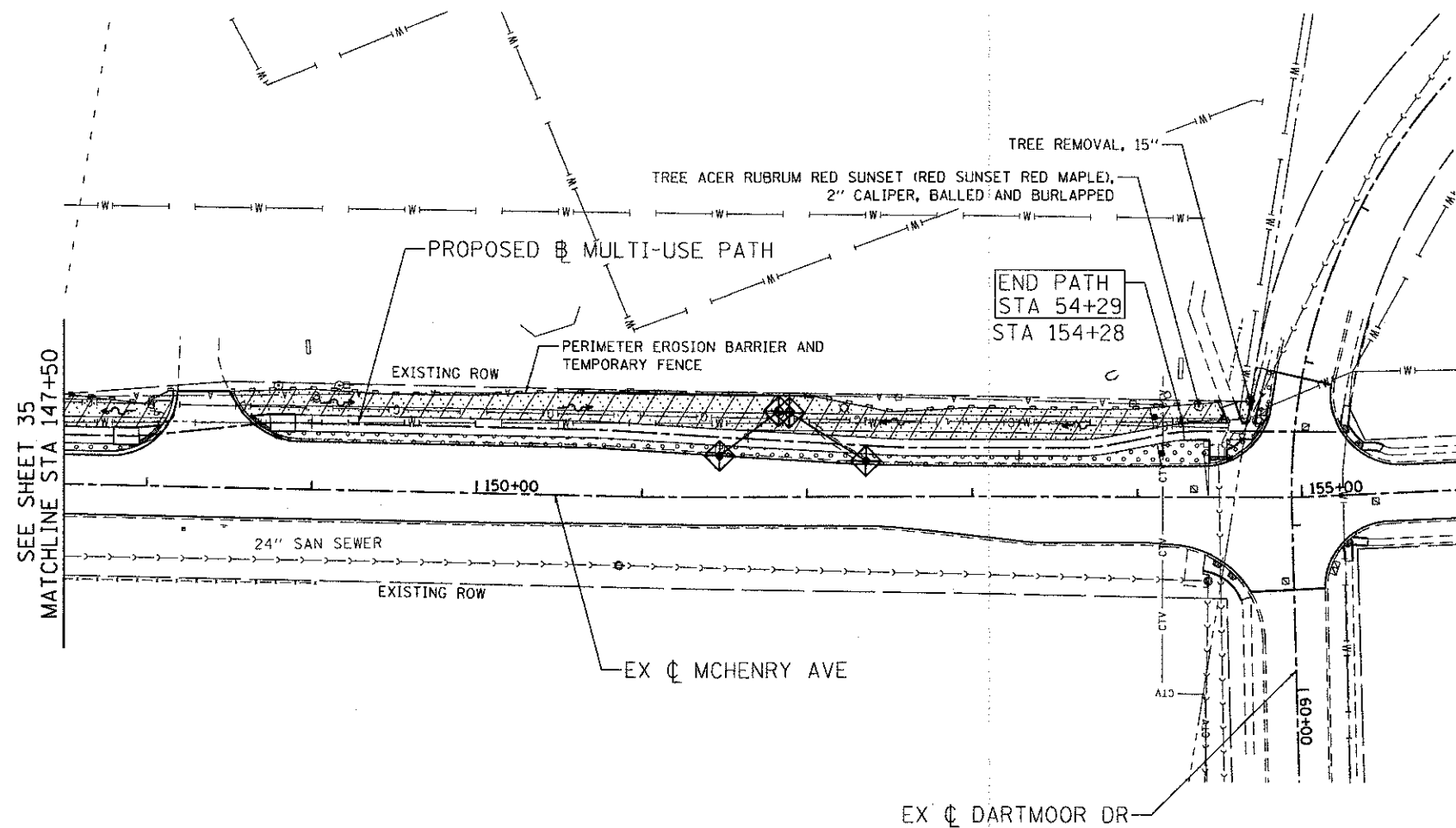
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	35
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

N:\PROJECTS\2007\01\Roadway\Proposed\Plan\0028871.dwg - 23 - Erosion.dwg



LEGEND:

	TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET, SODDING SALT TOLERANT
	TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 4, EROSION CONTROL BLANKET
	PERIMETER EROSION BARRIER AND/OR TEMPORARY FENCE
	INLET AND PIPE PROTECTION
	TREE REMOVAL (OVER 15 UNITS DIAMETER)

ENGINEERING CONSULTANT

 CONSULTING ENGINEERS
 8507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60634
 Tel: 773.776.4800 Fax: 773.776.4014
 Email: clorba@clorba.com

USER NAME = eharr	DESIGNED - RJR	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN - AMH	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

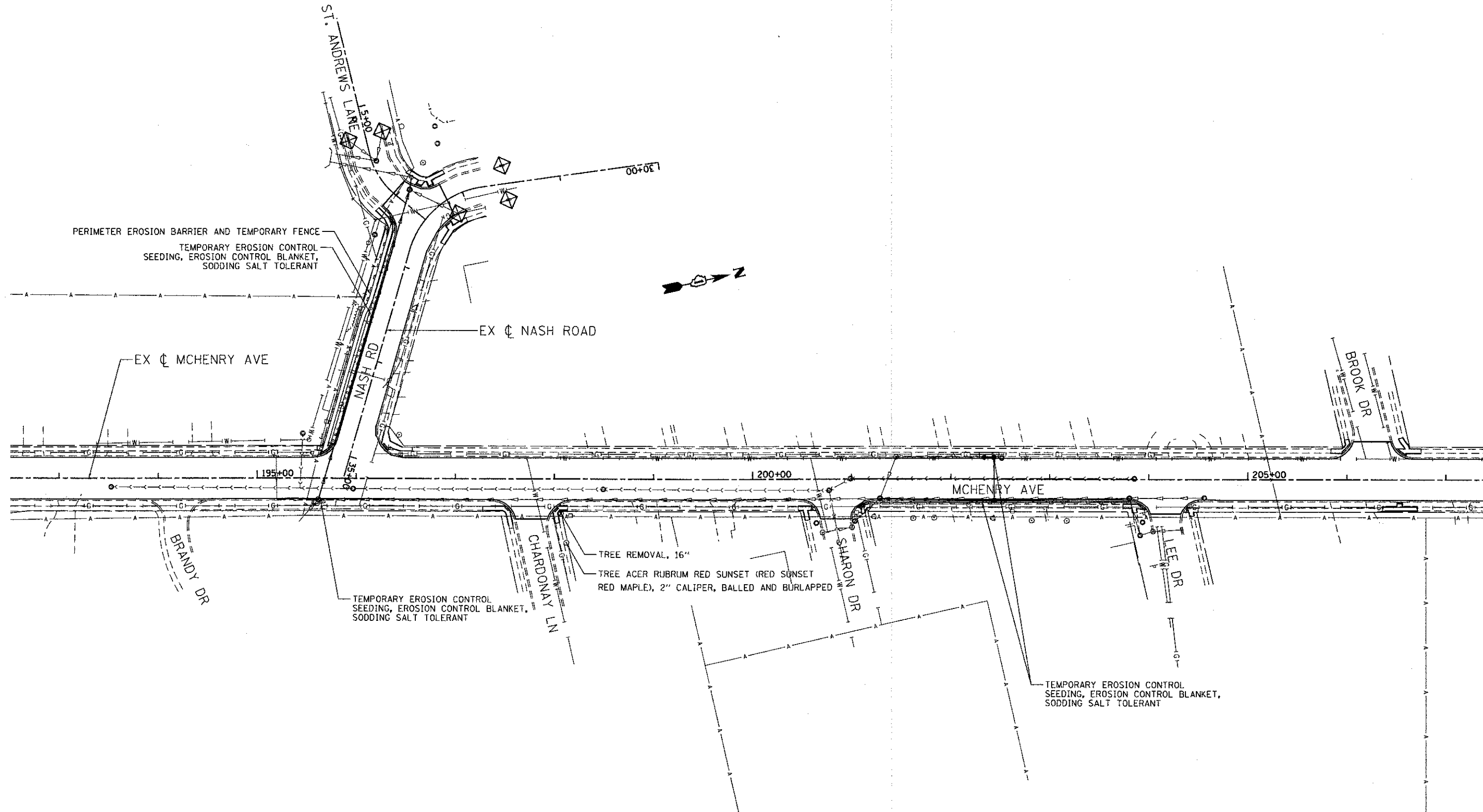
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MCHENRY AVENUE
 EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-R5	MCHENRY	62	36
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

M:\PROJ\10023071\01\Roadway\Proposed\Plan\10023071-01-24-Erosion02.dgn



LEGEND:

	TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET, SODDING SALT TOLERANT
	TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 4, EROSION CONTROL BLANKET
	PERIMETER EROSION BARRIER AND/OR TEMPORARY FENCE
	INLET AND PIPE PROTECTION
	TREE REMOVAL (OVER 15 UNITS DIAMETER)

ENGINEERING CONSULTANT

 CONSULTING ENGINEERS
 5507 North Cicero Avenue, Suite 102
 Chicago, Illinois 60630
 Tel: 773.775.4014 Fax: 773.775.4014
 Email: clorba@clorba.com

USER NAME = aharn	DESIGNED - RJR	REVISIONS
PLOT SCALE = 50,0000' / 1"	DRAWN - AMH	REVISIONS
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISIONS
	DATE - FEBRUARY 4, 2013	REVISIONS

DESIGNED - RJR	REVISIONS
DRAWN - AMH	REVISIONS
CHECKED - MRJ	REVISIONS
DATE - FEBRUARY 4, 2013	REVISIONS

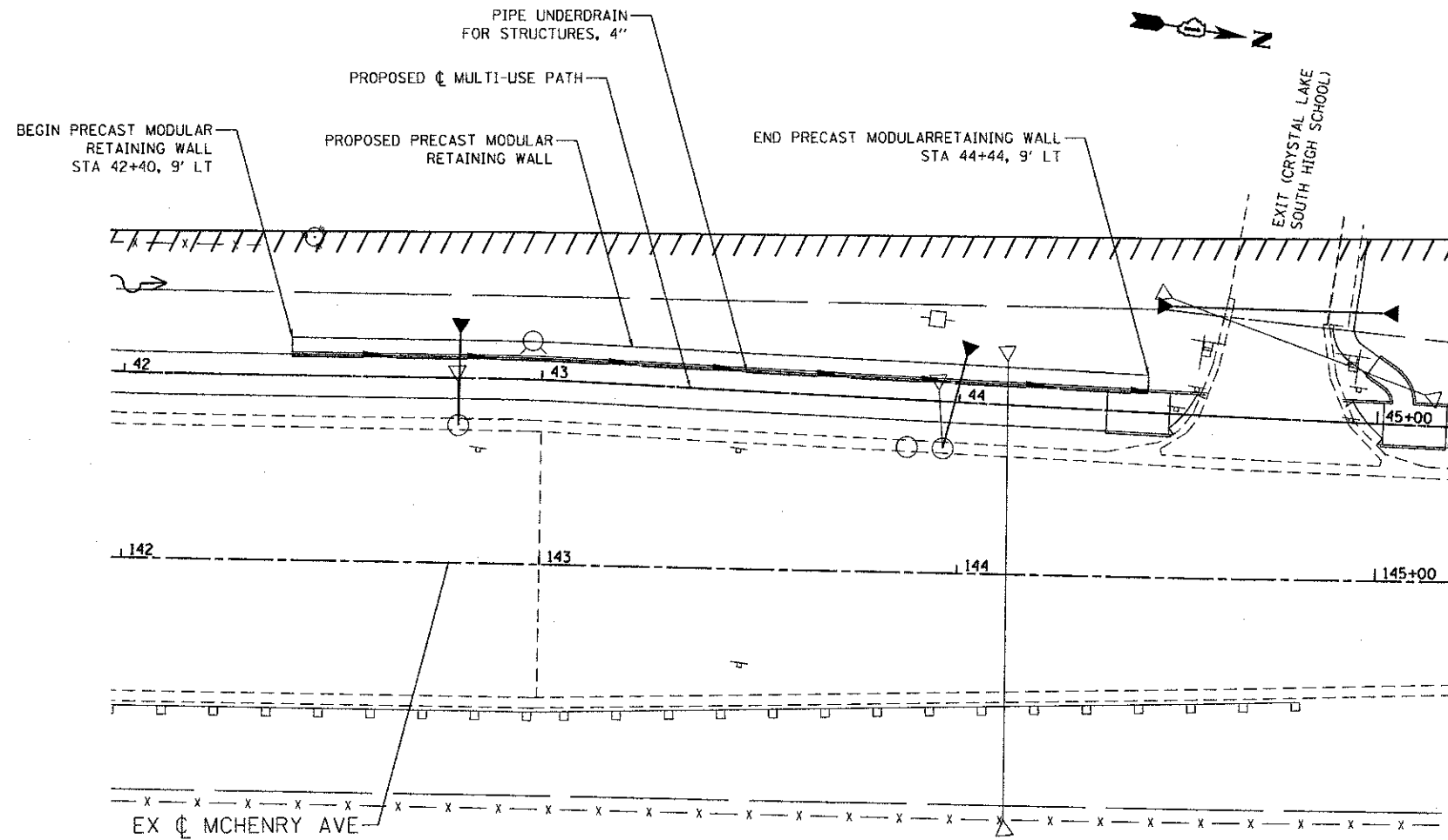
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MCHENRY AVENUE
 EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

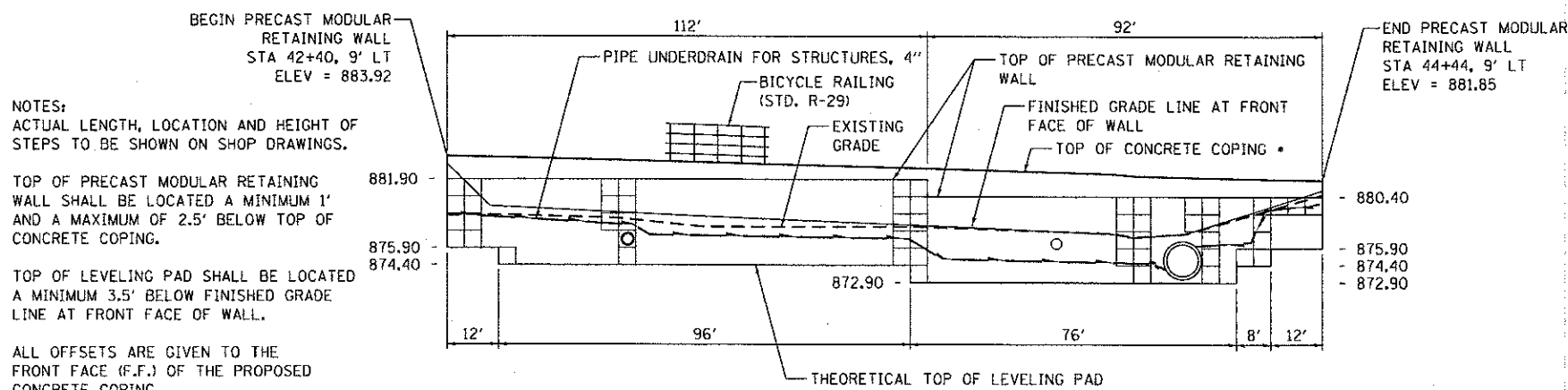
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	37
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

M:\PROJ\11-00115\11-00115-RS\11-00115-RS-37.dwg



PLAN

NOTE: STATIONS AND OFFSETS FROM ϕ MULTI-USE PATH
SCALE: 1:20



ELEVATION

NOTE: LOOKING AT BACK SIDE OF WALL

* MATCH ELEVATION OF WEST EDGE OF MULTI-USE PATH
SCALE: NTS

NOTES:
ACTUAL LENGTH, LOCATION AND HEIGHT OF STEPS TO BE SHOWN ON SHOP DRAWINGS.

TOP OF PRECAST MODULAR RETAINING WALL SHALL BE LOCATED A MINIMUM 1' AND A MAXIMUM OF 2.5' BELOW TOP OF CONCRETE COPING.

TOP OF LEVELING PAD SHALL BE LOCATED A MINIMUM 3.5' BELOW FINISHED GRADE LINE AT FRONT FACE OF WALL.

ALL OFFSETS ARE GIVEN TO THE FRONT FACE (F.F.) OF THE PROPOSED CONCRETE COPING.

ELEVATIONS ARE FOR PURPOSES OF SHOWING GENERAL LAYOUT AND QUANTITY COMPUTATION.

BLOCKS SHALL BE TEXTURED WITH A SPLIT ROCK FACE OR SIMILAR FINISH.

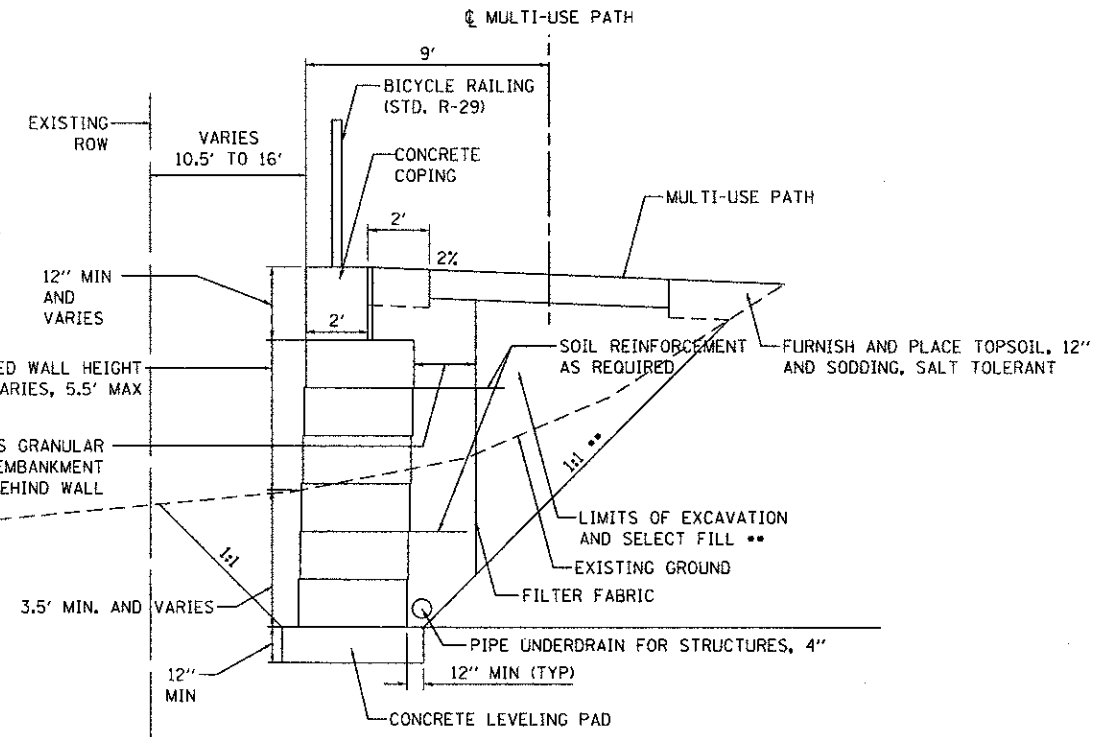
ALL EXCAVATION, POROUS GRANULAR EMBANKMENT AND SELECT FILL REQUIRED FOR PLACEMENT OF THE WALL SHALL BE INCLUDED IN THE COST OF THE PRECAST MODULAR RETAINING WALL.



ENGINEERING CONSULTANT	USER NAME = ahorn	DESIGNED - RJR	REVISED -
CLORBA GROUP, INC.	5507 North Quaker Avenue, Suite 402, Chicago, IL 60630	DRAWN - AMH	REVISED -
773.776.4014	Small: clorba@clorba.com	CHECKED - MRJ	REVISED -
		DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS	DESIGNED - RJR	REVISED -
DEPARTMENT OF TRANSPORTATION	DRAWN - AMH	REVISED -
	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

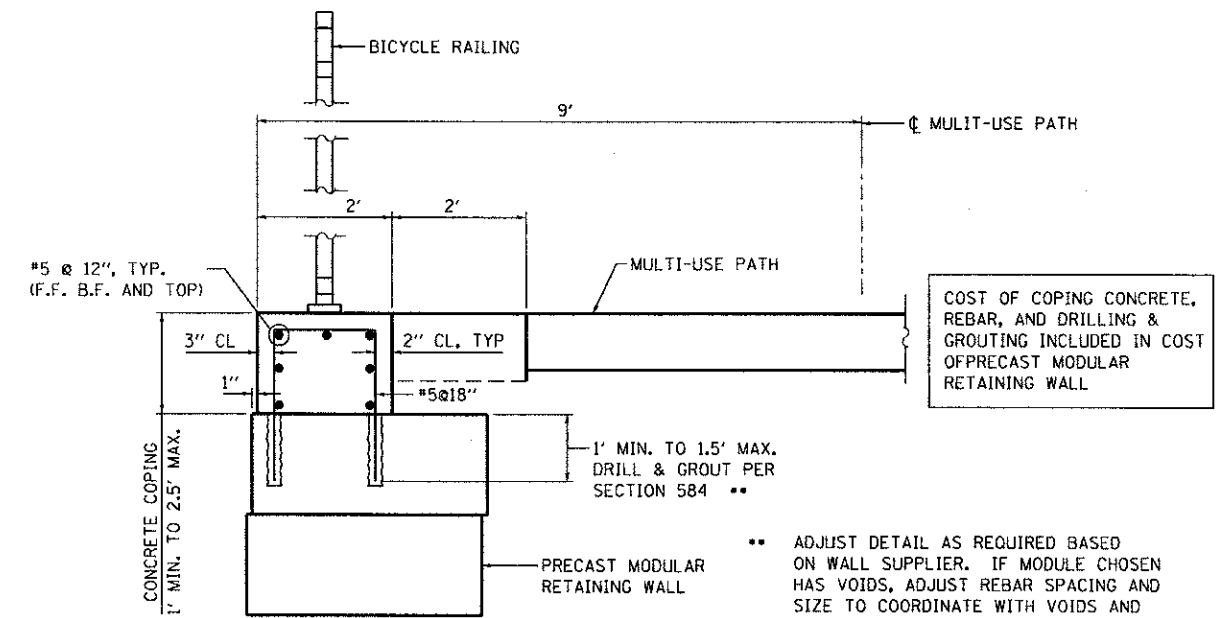


TYPICAL SECTION

SCALE: NTS

SOIL REINFORCING TYPE, LENGTH, LOCATION TO BE DETERMINED BY WALL SUPPLIER AND SHOWN IN THE SHOP DRAWINGS. LIMITS OF EXCAVATION AND SELECT FILL MAY VARY DEPENDING ON REINFORCING.

** SELECT FILL SHALL BE STEPPED AND KEYED INTO THE EXISTING EMBANKMENT AS REQUIRED BY WALL SUPPLIER.



COPING DETAIL

COST OF COPING CONCRETE, REBAR, AND DRILLING & GROUTING INCLUDED IN COST OF PRECAST MODULAR RETAINING WALL

** ADJUST DETAIL AS REQUIRED BASED ON WALL SUPPLIER. IF MODULE CHOSEN HAS VOIDS, ADJUST REBAR SPACING AND SIZE TO COORDINATE WITH VOIDS AND FILL VOIDS AS NEEDED TO ANCHOR REBAR

18\PROJECT\11-00115-00-RS\Proposed_Plan\02-28-13\retaining-wall.dwg

ENGINEERING CONSULTANT		USER NAME = ahorn		DESIGNED - RJR		REVISED -		<p style="text-align: center;">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p style="text-align: center;">MCHENRY AVENUE PRECAST MODULAR RETAINING WALL</p>				F.A.U. RTE. 120		SECTION 11-00115-00-RS		COUNTY MCHENRY		TOTAL SHEETS 62		SHEET NO. 38	
CLORBA GROUP, INC.		5507 North Quaker Avenue, Suite 402, Chicago, IL 60630		DRAWN - AMH		REVISED -						SCALE: 1:20		SHEET NO. OF SHEETS		STA. TO STA.		CONTRACT NO. 63806			
773.776.4014		Small: clorba@clorba.com		CHECKED - MRJ		REVISED -															
				DATE - FEBRUARY 4, 2013		REVISED -															

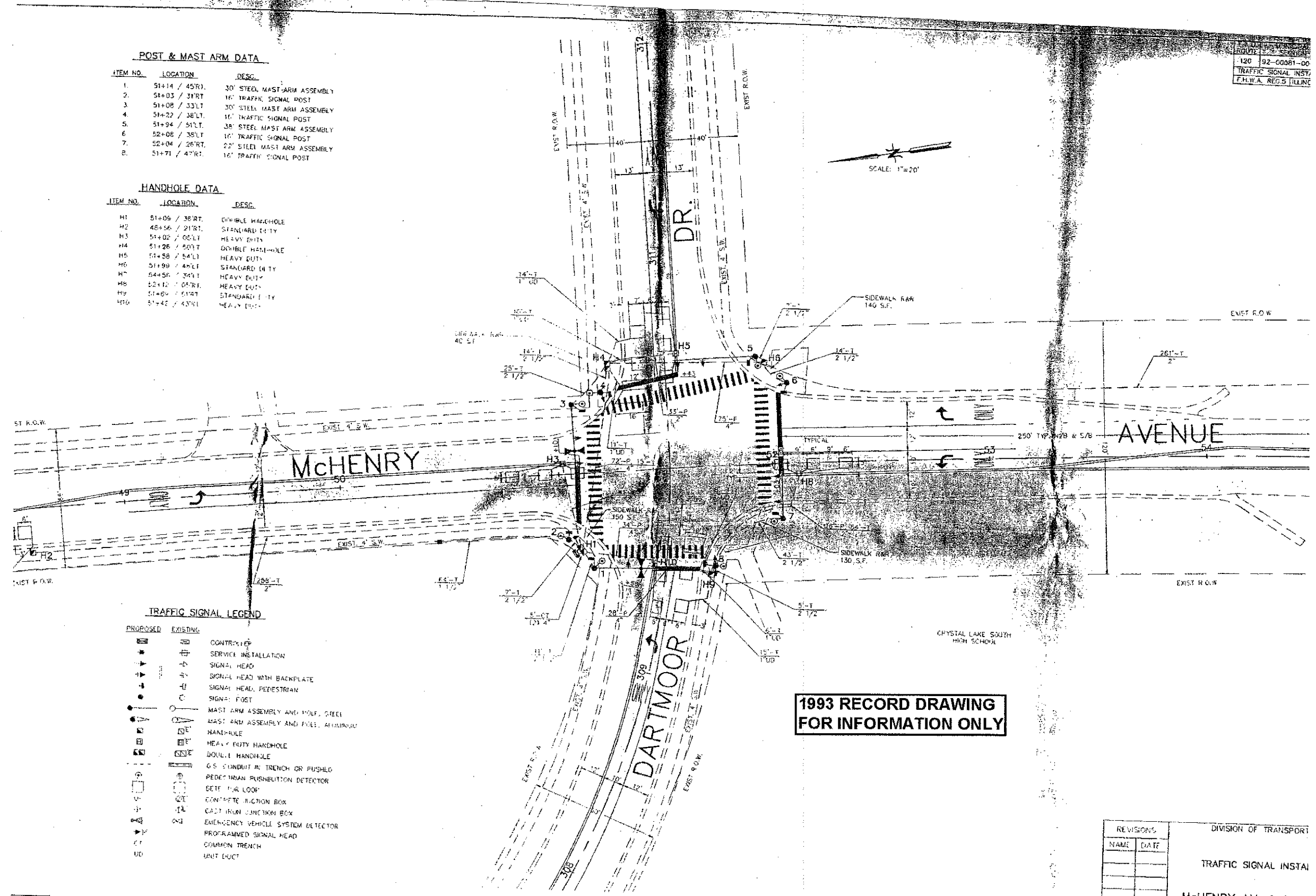
ROUTE 120
 TRAFFIC SIGNAL INST.
 F.H.W.A. REG. BILLING

POST & MAST ARM DATA

ITEM NO.	LOCATION	DESC.
1.	51+14 / 45RT.	30' STEEL MAST ARM ASSEMBLY
2.	51+03 / 31RT.	16' TRAFFIC SIGNAL POST
3.	51+08 / 33LT.	30' STEEL MAST ARM ASSEMBLY
4.	51+22 / 36LT.	16' TRAFFIC SIGNAL POST
5.	51+94 / 51LT.	38' STEEL MAST ARM ASSEMBLY
6.	52+08 / 38LT.	16' TRAFFIC SIGNAL POST
7.	52+04 / 26RT.	22' STEEL MAST ARM ASSEMBLY
8.	51+71 / 47RT.	16' TRAFFIC SIGNAL POST

HANDHOLE DATA

ITEM NO.	LOCATION	DESC.
H1	51+09 / 38RT.	DOUBLE HANDHOLE
H2	48+56 / 21RT.	STANDARD CITY
H3	51+02 / 02LT.	HEAVY DUTY
H4	51+26 / 50LT.	DOUBLE HANDHOLE
H5	51+58 / 54LT.	HEAVY DUTY
H6	51+99 / 40LT.	STANDARD CITY
H7	54+56 / 34LT.	HEAVY DUTY
H8	52+12 / 05RT.	HEAVY DUTY
H9	51+89 / 51RT.	STANDARD CITY
H10	51+42 / 43RT.	HEAVY DUTY



TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	DESCRIPTION
⊠	⊠	CONTRACT
⊠	⊠	SERVICE INSTALLATION
⊠	⊠	SIGNAL HEAD
⊠	⊠	SIGNAL HEAD WITH BACKPLATE
⊠	⊠	SIGNAL HEAD, PEDESTRIAN
⊠	⊠	SIGNAL POST
⊠	⊠	MAST ARM ASSEMBLY AND MOUNT, STEEL
⊠	⊠	MAST ARM ASSEMBLY AND MOUNT, ALUMINUM
⊠	⊠	HANDHOLE
⊠	⊠	HEAVY DUTY HANDHOLE
⊠	⊠	DOUBLE HANDHOLE
⊠	⊠	6" CONDUIT IN TRENCH OR PUSHED
⊠	⊠	PEDESTRIAN PUSHBUTTON DETECTOR
⊠	⊠	DETECTOR LOOP
⊠	⊠	CONCRETE JUNCTION BOX
⊠	⊠	CAST IRON JUNCTION BOX
⊠	⊠	EMERGENCY VEHICLE SYSTEM DETECTOR
⊠	⊠	PROGRAMMED SIGNAL HEAD
⊠	⊠	COMMON TRENCH
⊠	⊠	UNIT DUCT

REVISIONS		DIVISION OF TRANSPORT	
NAME	DATE		
		TRAFFIC SIGNAL INSTAL	
		McHENRY AV. & DARTMOOR	
		SCALE: 1"=20'	
		DATE: 12-01-93	

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5807 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.275.6569 Fax: 773.778.4014
 Email: cgroup@clorba.com

USER NAME: ehern	DESIGNED: RJR	REVISED: -
PLOT SCALE: 1/8"=1'-0"	DRAWN: AMH	REVISED: -
PLOT DATE: 2/22/2013	CHECKED: MRJ	REVISED: -
	DATE: FEBRUARY 4, 2013	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
OLD DETECTOR LOOP REPLACEMENT
DARTMOOR DR AND MCHENRY AVE

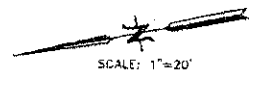
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	39
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

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6

F.S. NO.	MUNICIPALITY	COUNTY	SHEET NO.
120	92-00681-00-TL	McHENRY	12 6
TRAFFIC SIGNAL INSTALLATION			
I.L.H.W.A. REG. 5 ILLINOIS PROJECT STPM 5073(20)			

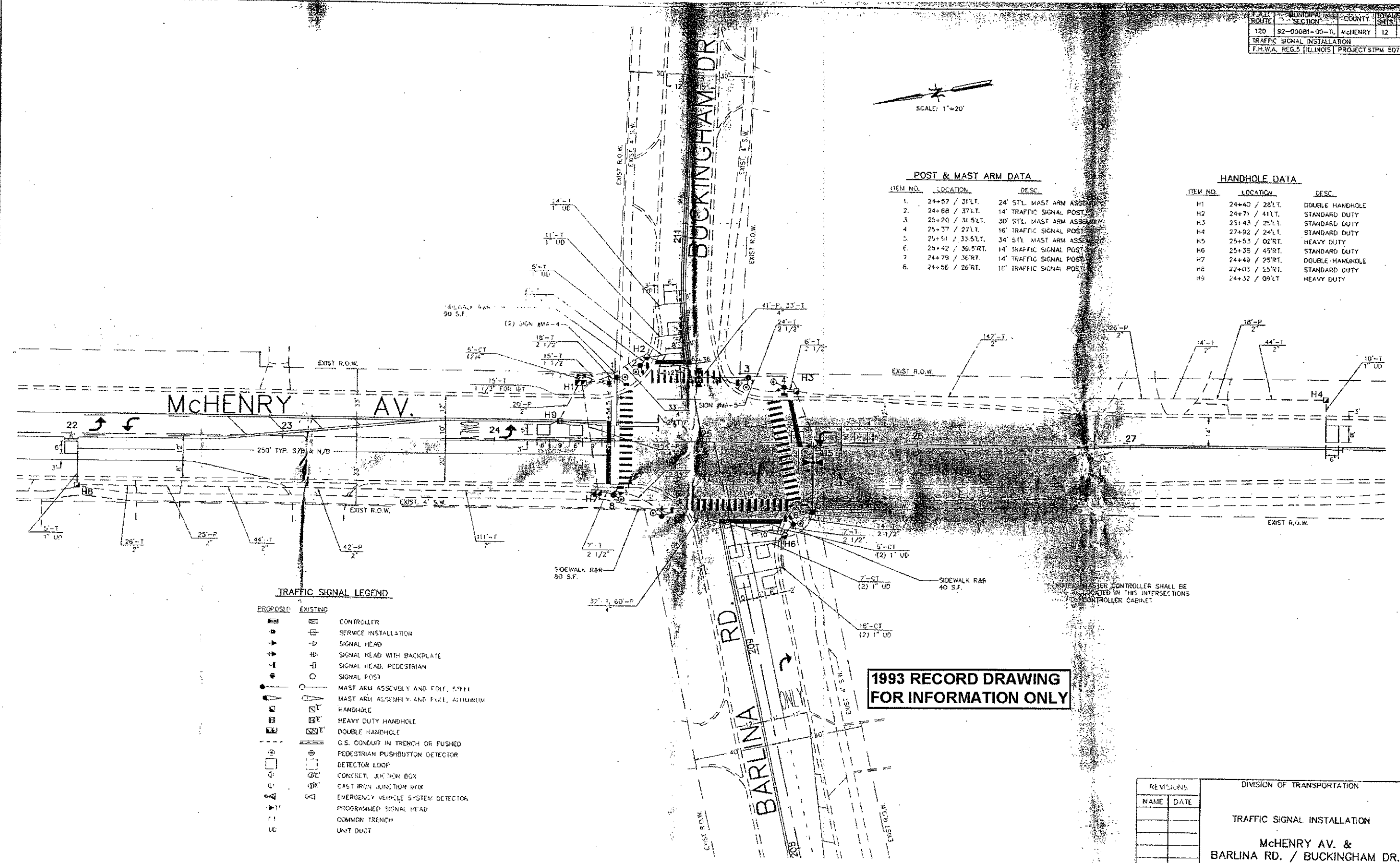


POST & MAST ARM DATA

ITEM NO.	LOCATION	DESC.
1.	24+57 / 31'LT.	24' STL. MAST ARM ASSEMBLY
2.	24+68 / 37'LT.	14' TRAFFIC SIGNAL POST
3.	25+20 / 31.5'LT.	30' STL. MAST ARM ASSEMBLY
4.	25+37 / 27'LT.	16' TRAFFIC SIGNAL POST
5.	25+51 / 33.5'LT.	34' STL. MAST ARM ASSEMBLY
6.	25+42 / 36.5'RT.	14' TRAFFIC SIGNAL POST
7.	24+79 / 36'RT.	14' TRAFFIC SIGNAL POST
8.	24+56 / 26'RT.	18' TRAFFIC SIGNAL POST

HANDHOLE DATA

ITEM NO.	LOCATION	DESC.
H1	24+40 / 28'LT.	DOUBLE HANDHOLE
H2	24+71 / 41'LT.	STANDARD DUTY
H3	25+43 / 25'LT.	STANDARD DUTY
H4	27+92 / 24'LT.	STANDARD DUTY
H5	25+53 / 02'RT.	HEAVY DUTY
H6	25+38 / 45'RT.	STANDARD DUTY
H7	24+49 / 25'RT.	DOUBLE HANDHOLE
H8	22+03 / 25'RT.	STANDARD DUTY
H9	24+32 / 09'LT.	HEAVY DUTY



TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	SIGNAL POST
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND FOLI, STEEL
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND FOLI, ALUMINUM
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	CONCRETE JUNCTION BOX
[Symbol]	[Symbol]	CAST IRON JUNCTION BOX
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR
[Symbol]	[Symbol]	PROGRAMMED SIGNAL HEAD
[Symbol]	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	UNIT DUCT

REVISIONS:	
NAME	DATE

DIVISION OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION
McHENRY AV. & BARLINA RD. / BUCKINGHAM DR.
 SCALE: 1"=20'
 DATE: 12-01-93
 DRAWN BY: S.M.S.
 CHECKED BY: D.M.H.

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5807 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.778.0000 Fax: 773.778.4014
 Email: chicago@clorba.com

USER NAME = ehern
 DESIGNED - RJR
 DRAWN - AMH
 CHECKED - MRJ
 DATE - FEBRUARY 4, 2013
 PLOT SCALE = 1,0000' / in.
 PLOT DATE = 2/22/2013

DESIGNED - RJR
 DRAWN - AMH
 CHECKED - MRJ
 DATE - FEBRUARY 4, 2013
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
OLD DETECTOR LOOP REPLACEMENT
BARLINA RD/BUCKINGHAM DR AND MCHENRY AVE
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	McHENRY	62	40
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

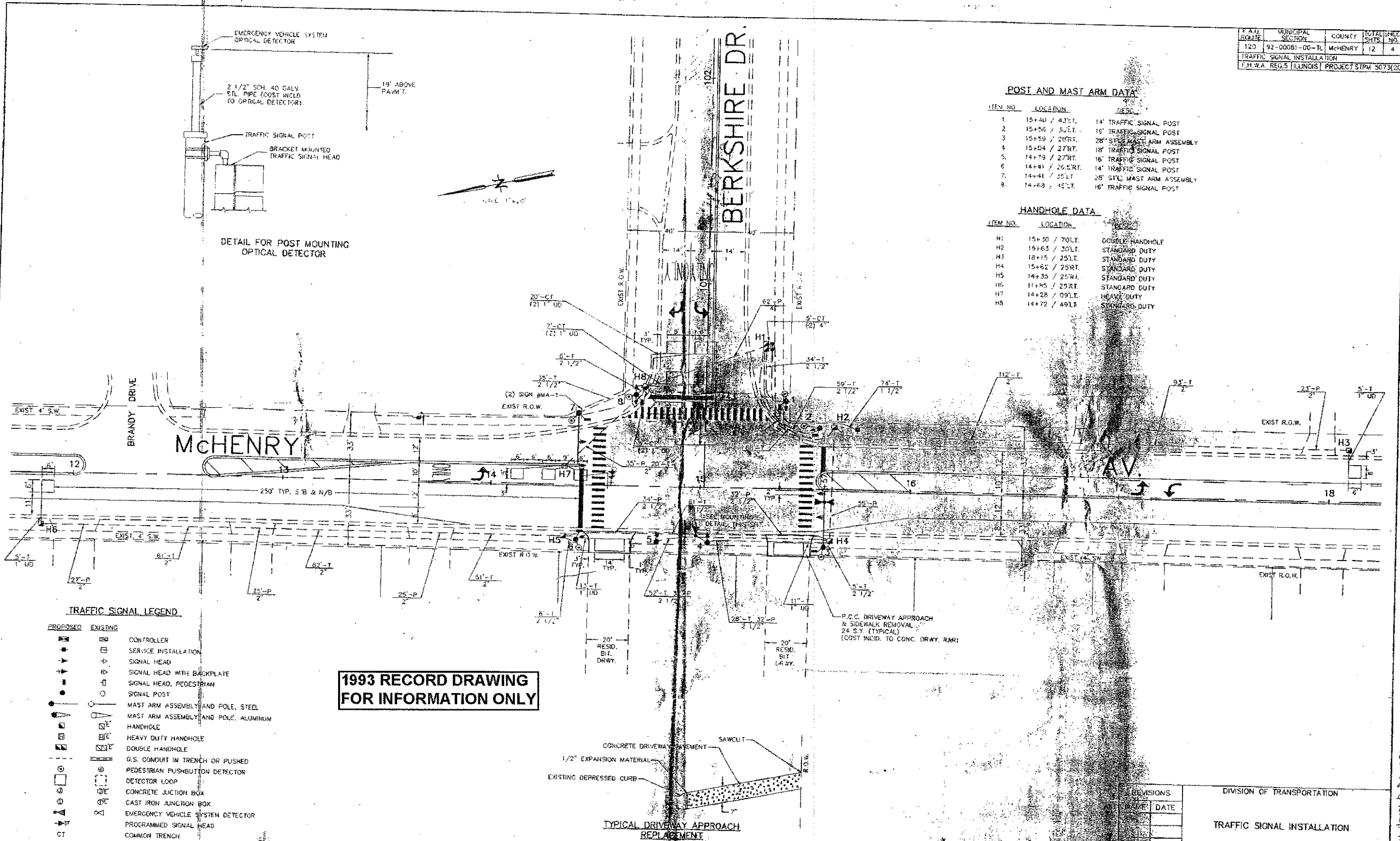
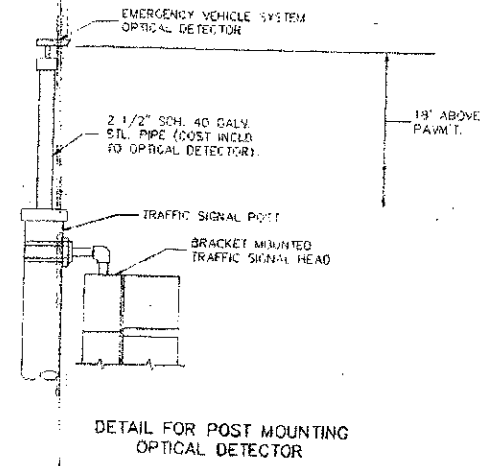
F.A.U. ROAD	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	92-00081-00-TR	McHENRY	12	4
TRAFFIC SIGNAL INSTALLATION				
F.H.W.A. REG. 5 ILLINOIS PROJECT STPM 5073(2)				

POST AND MAST ARM DATA

ITEM NO.	LOCATION	DESC.
1	15+40 / 43'LT.	14' TRAFFIC SIGNAL POST
2	15+56 / 50'LT.	15' TRAFFIC SIGNAL POST
3	15+59 / 28'RT.	28' STL MAST ARM ASSEMBLY
4	15+04 / 27'RT.	18' TRAFFIC SIGNAL POST
5	14+79 / 27'RT.	16' TRAFFIC SIGNAL POST
6	14+41 / 26'RT.	14' TRAFFIC SIGNAL POST
7	14+41 / 25'LT.	28' STL MAST ARM ASSEMBLY
8	14+68 / 45'LT.	16' TRAFFIC SIGNAL POST

HANDHOLE DATA

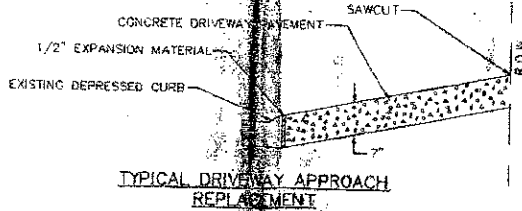
ITEM NO.	LOCATION	DESC.
H1	15+30 / 70'LT.	DOUBLE HANDHOLE
H2	15+63 / 30'LT.	STANDARD DUTY
H3	18+15 / 25'LT.	STANDARD DUTY
H4	15+62 / 25'RT.	STANDARD DUTY
H5	14+35 / 25'RT.	STANDARD DUTY
H6	11+85 / 25'RT.	STANDARD DUTY
H7	14+28 / 09'LT.	HEAVY DUTY
H8	14+72 / 49'LT.	STANDARD DUTY



TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	SIGNAL POST
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, ALUMINUM
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	CONCRETE JUNCTION BOX
[Symbol]	[Symbol]	CAST IRON JUNCTION BOX
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR
[Symbol]	[Symbol]	PROGRAMMED SIGNAL HEAD
[Symbol]	[Symbol]	COMMON TRENCH

1993 RECORD DRAWING FOR INFORMATION ONLY



REVISIONS		DIVISION OF TRANSPORTATION	
NO.	DATE		
		TRAFFIC SIGNAL INSTALLATION	

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4000 Fax: 773.775.4014
 Email: chicago@clorba.com

USER NAME = aharri	DESIGNED - RJR	REVISED -
PLOT SCALE = 1:8000 @ 1/8"	DRAWN - AMH	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

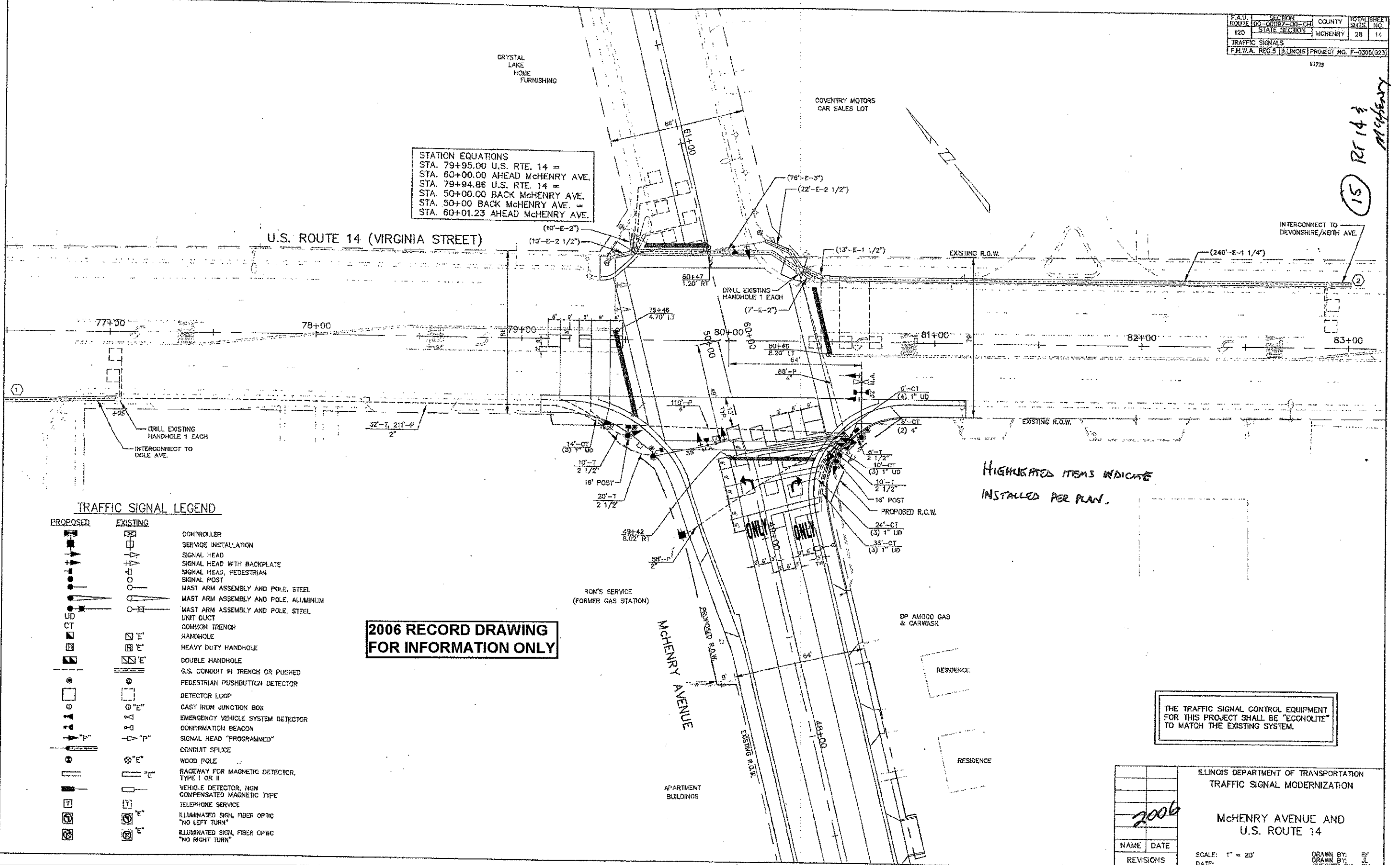
MCHENRY AVENUE			
OLD DETECTOR LOOP REPLACEMENT			
BERKSHIRE DR AND MCHENRY AVE			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	McHENRY	62	41
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-R5	MCHENRY	62	42
TRAFFIC SIGNALS				
F.H.W.A. REG. 5 ILLINOIS PROJECT NO. F-0306(023)				

STATION EQUATIONS
 STA. 79+95.00 U.S. RTE. 14 =
 STA. 60+00.00 AHEAD MCHENRY AVE.
 STA. 79+94.86 U.S. RTE. 14 =
 STA. 50+00.00 BACK MCHENRY AVE.
 STA. 50+00.00 BACK MCHENRY AVE. =
 STA. 60+01.23 AHEAD MCHENRY AVE.

U.S. ROUTE 14 (VIRGINIA STREET)



TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	SIGNAL POST
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, ALUMINUM
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	CAST IRON JUNCTION BOX
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	SIGNAL HEAD "PROGRAMMED"
[Symbol]	[Symbol]	CONDUIT SPLICE
[Symbol]	[Symbol]	WOOD POLE
[Symbol]	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II
[Symbol]	[Symbol]	VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
[Symbol]	[Symbol]	TELEPHONE SERVICE
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"

2006 RECORD DRAWING FOR INFORMATION ONLY

HIGHLIGHTED ITEMS INDICATE INSTALLED PER PLAN.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING SYSTEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION		TRAFFIC SIGNAL MODERNIZATION	
MCHENRY AVENUE AND U.S. ROUTE 14			
NAME	DATE	SCALE: 1" = 20'	DRAWN BY: EF
REVISIONS		DATE:	CHECKED BY: JK

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.776.8000 Fax: 773.776.4014
 Email: cgroup@clorba.com

USER NAME = ehern	DESIGNED - RJR	REVISED -
PLOT SCALE = 1:8000 / 1"	DRAWN - AMH	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

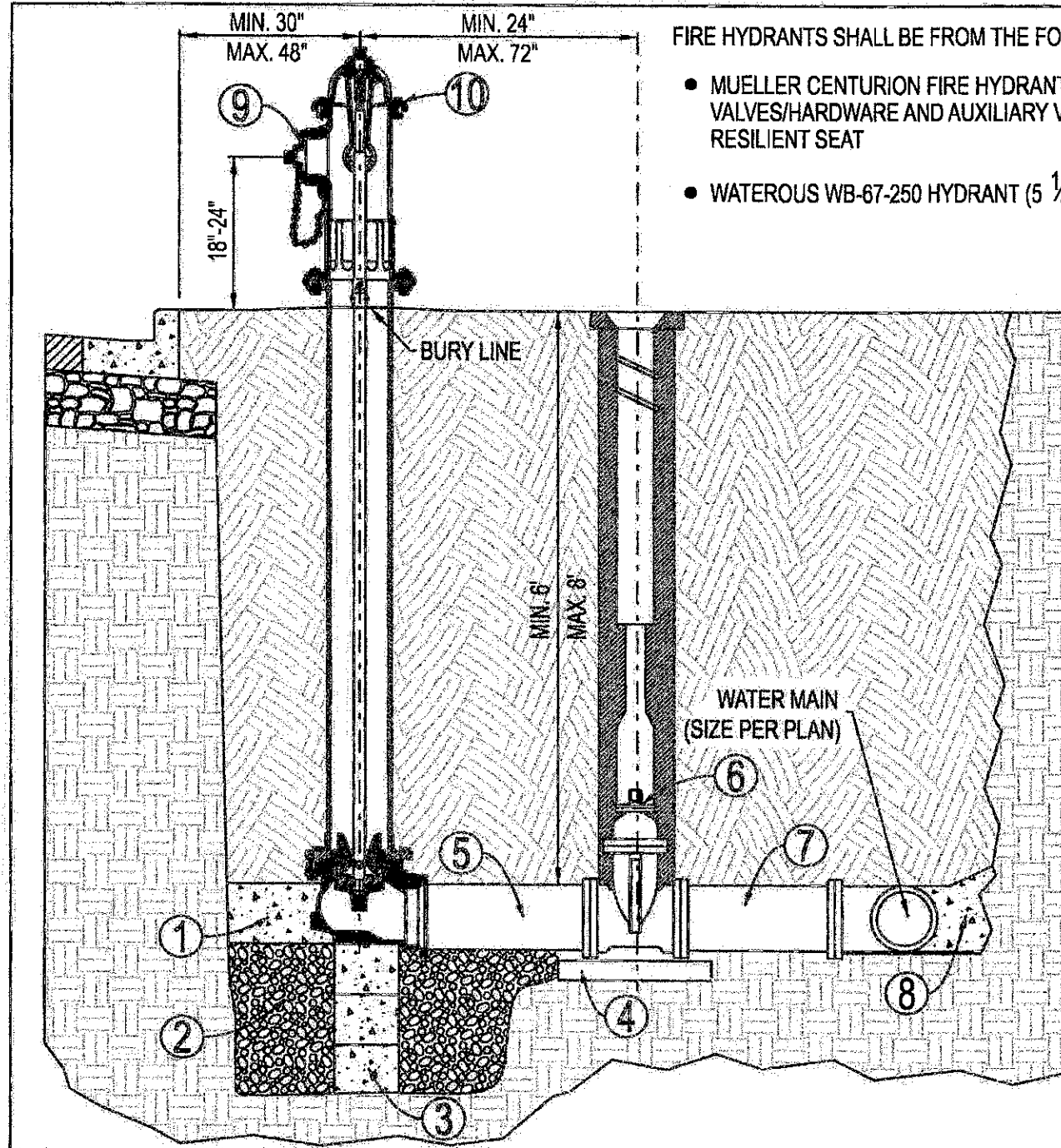
MCHENRY AVENUE OLD DETECTOR LOOP REPLACEMENT US ROUTE 14 AND MCHENRY AVE

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-R5	MCHENRY	62	42
CONTRACT NO. 63806				
ILLINOIS FED. AID PROJECT				

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15 Ref 14 Mch Henry



FIRE HYDRANTS SHALL BE FROM THE FOLLOWING LIST, AS APPROVED BY THE CITY: OR APPROVED EQUAL

- MUELLER CENTURION FIRE HYDRANT, OPT-094 (5 1/4" BARREL) WITH MUELLER VALVES/HARDWARE AND AUXILIARY VALVE 6" GATE VALVE NO. 2360-23-9020 MODIFIED WEDGE RESILIENT SEAT
- WATEROUS WB-67-250 HYDRANT (5 1/4" PACER) WITH SERIES 2500-1 RESILIENT WEDGE GATE VALVE

- 1 PROVIDE CLASS SI CONCRETE BASE AND BLOCKING AGAINST UNDISTURBED EARTH
- 2 DRAIN SUMP TO BE 3/4 CUBIC YARD OF 3/4" WASHED STONE
- 3 CONCRETE SUPPORT
- 4 CONCRETE BLOCK OR BRICK SUPPORT
- 5 PIPE AS REQUIRED TO MAINTAIN 24" SEPARATION AS SHOWN (DIRECT MECHANICAL JOINT CONNECTION IF APPROVED BY CITY)
- 6 RUBBER VALVE BOX STABILIZER
- 7 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.
- 8 CONCRETE BLOCKING CAST IN PLACE 3000 P.S.I.
- 9 4 1/2" PORT TO FACE PAVEMENT OR AS DIRECTED BY CITY ENGINEER
- 10 ALL NEWLY INSTALLED HYDRANTS MUST BE TOP COATED WITH RUST-OLEUM FIRE HYDRANT ENAMEL (COLOR = FIRE HYDRANT RED)
- 11 MIN. 48" BETWEEN HYDRANT AND ANY VERTICAL OBSTRUCTIONS.
- 12 MIN. 72" BETWEEN HYDRANT AND ANY LANDSCAPING WITH A MATURE HEIGHT GREATER THAN 12".
- 13 ALL VALVE AND HYDRANT HARDWARE MUST BE STAINLESS STEEL INCLUDING NUTS, BOLTS, AND WASHERS.

Approved: City Engineer

Victor C. Ramirez
 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

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

N:\PROJ\0222071\01\Revised\Final\CL_Standards\FH.dgn

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 3507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60642
 Tel: 773-776-4800 Fax: 773-776-4014
 Email: clorba@clorba.com

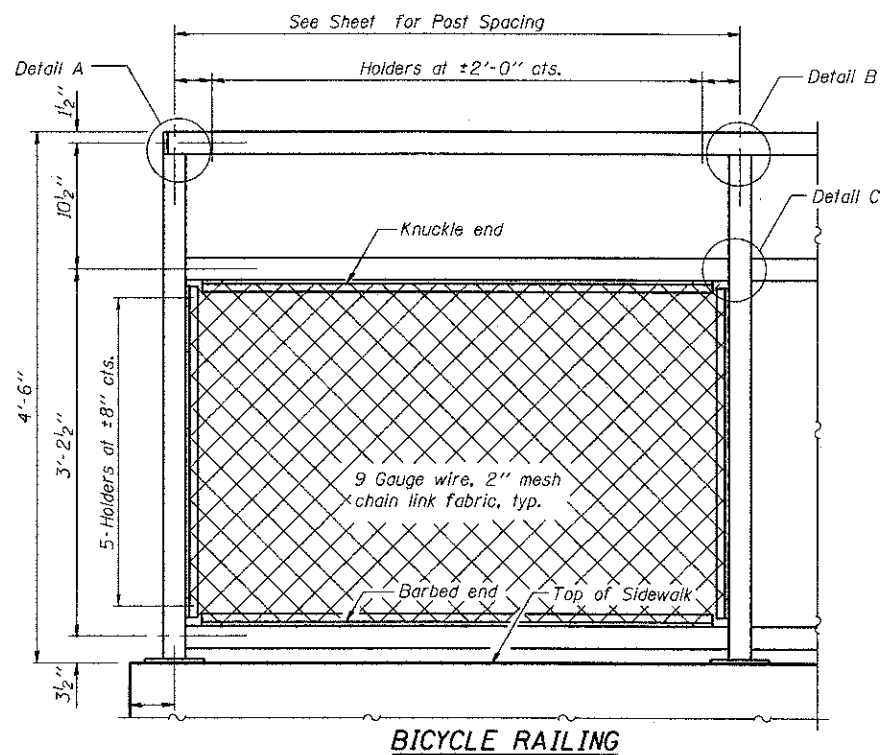
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PLOT SCALE = 1:8000 / 1/8"	DRAWN - AMH	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

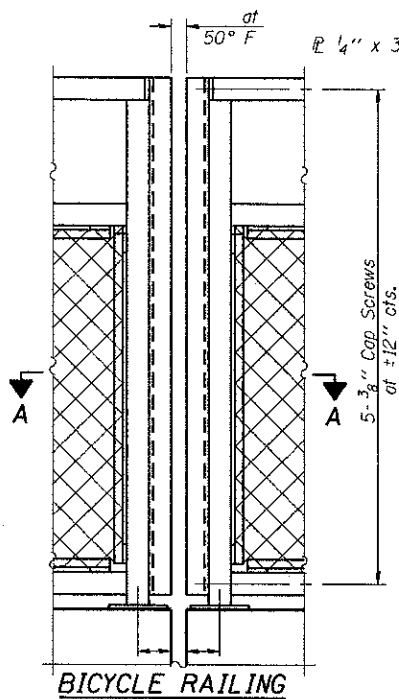
MCHENRY AVENUE
CRYSTAL LAKE FIRE HYDRANT DETAIL

SCALE: SHEET NO. OF SHEETS STA. TO STA.

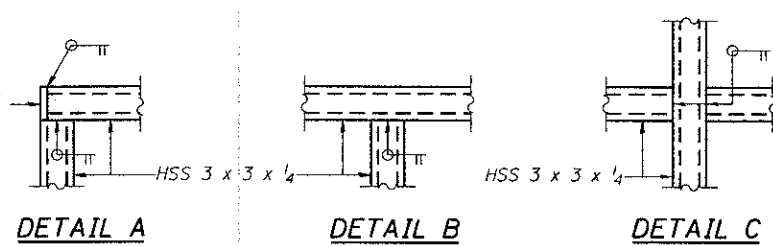
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	43
UW-06			CONTRACT NO. 63806	
ILLINOIS FED. AID PROJECT				



BICYCLE RAILING

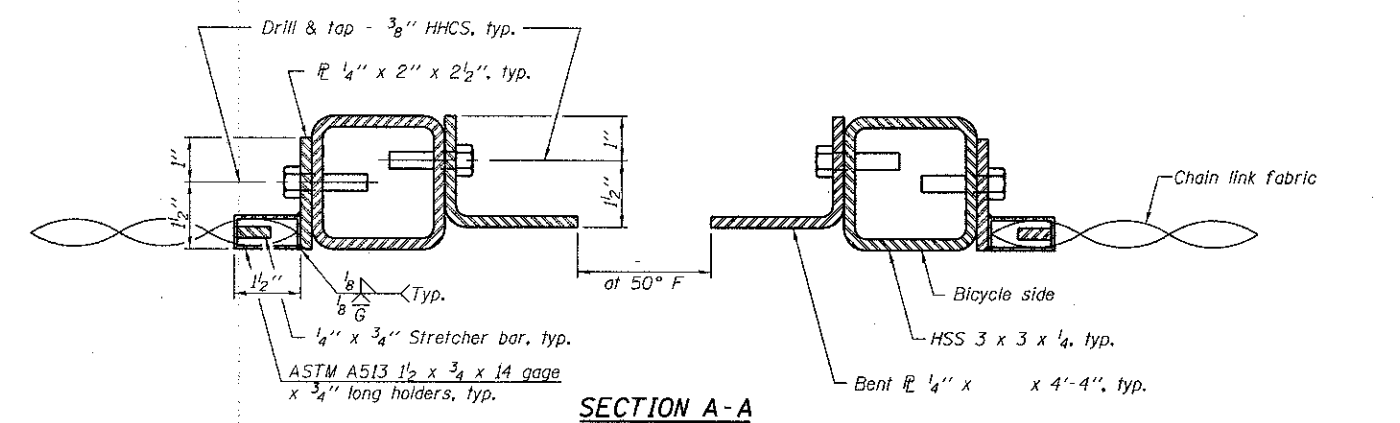


BICYCLE RAILING

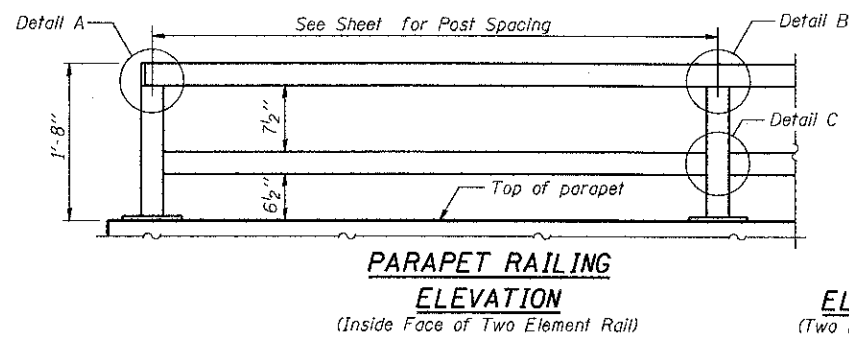


DETAIL A **DETAIL B** **DETAIL C**

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

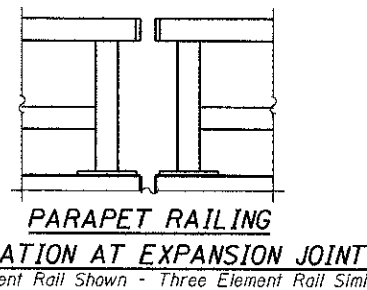


SECTION A-A



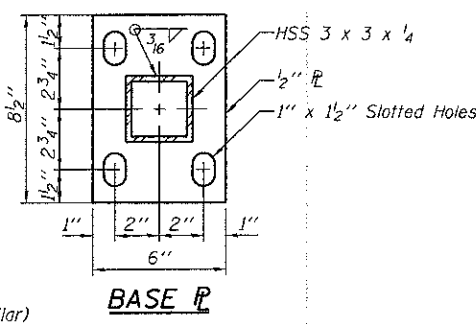
PARAPET RAILING

ELEVATION
(Inside Face of Two Element Rail)

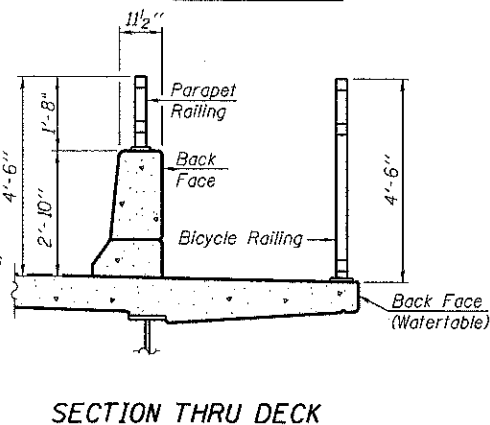


PARAPET RAILING

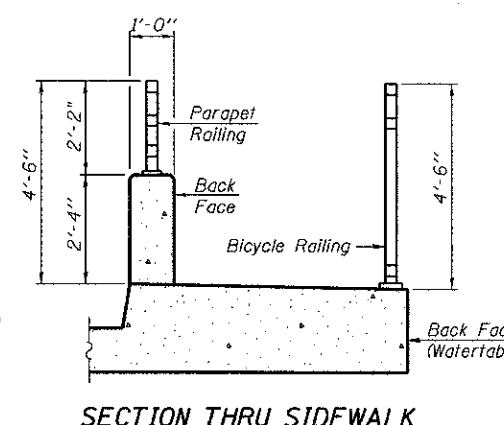
ELEVATION AT EXPANSION JOINT
(Two Element Rail Shown - Three Element Rail Similar)



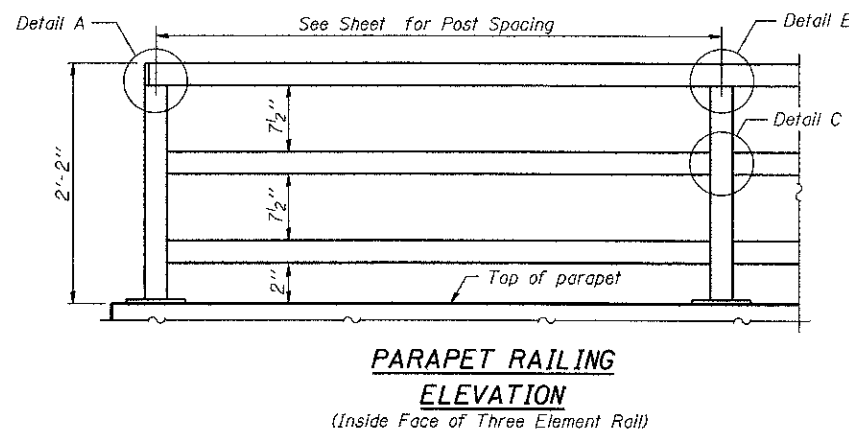
BASE P



SECTION THRU DECK

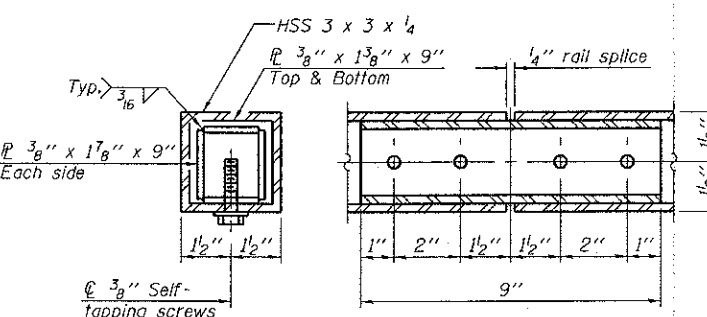


SECTION THRU SIDEWALK

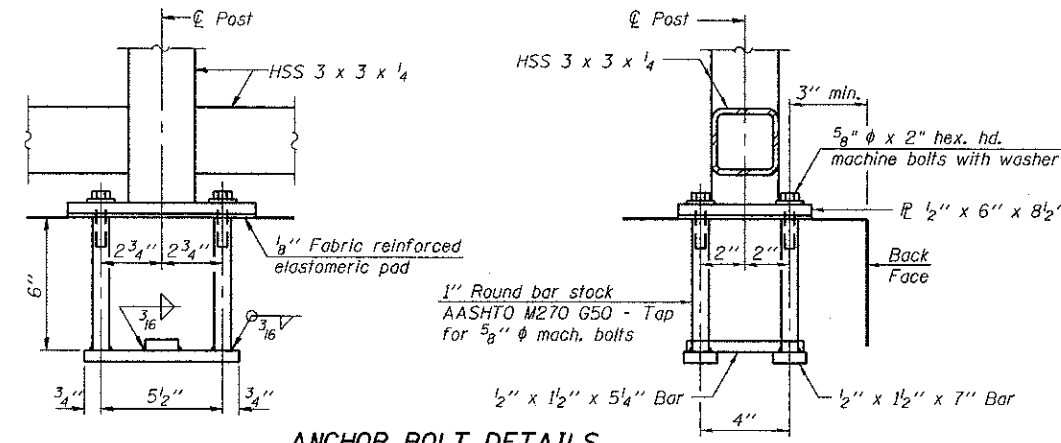


PARAPET RAILING

ELEVATION
(Inside Face of Three Element Rail)



RAIL SPLICE



ANCHOR BOLT DETAILS

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

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	204
Parapet Railing	Foot	0

R-29 1-27-12 (10'-0" Maximum Post Spacing)

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cicero Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.776.4028 Fax: 773.776.4014
 Email: Chicago@clorba.com

USER NAME = ahorn	DESIGNED - RJR	REVISED -
PLOT SCALE = 4.5000' / 1"	DRAWN - AMH	REVISED -
PLOT DATE = 2/22/2013	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

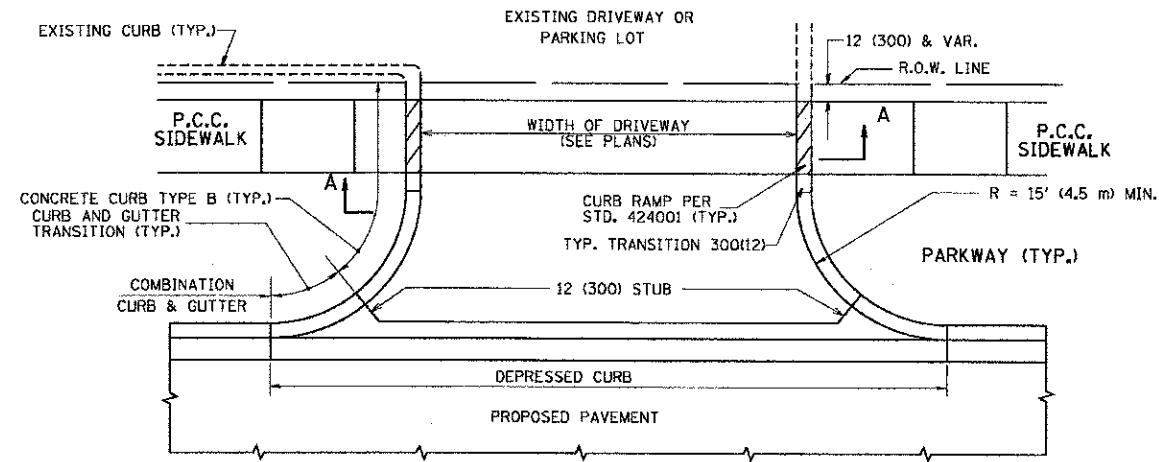
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DEPARTMENT OF TRANSPORTATION	DRAWN - AMH	REVISED -
	CHECKED - MRJ	REVISED -
	DATE - FEBRUARY 4, 2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

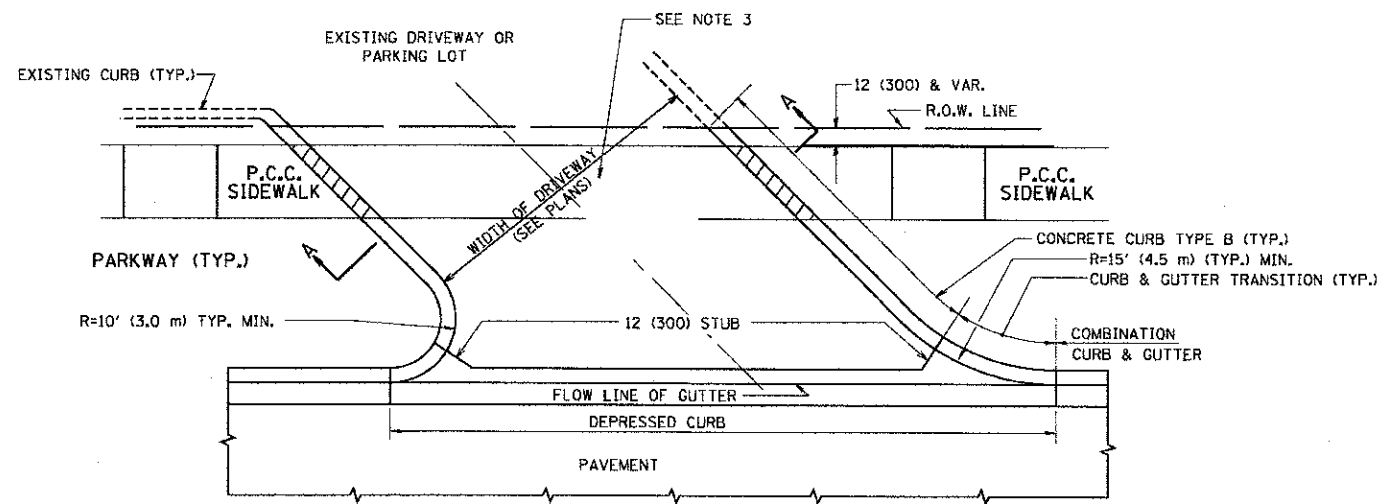
MCHENRY AVENUE
BICYCLE RAILING DETAIL

SCALE: SHEET NO. OF SHEETS STA. TO STA.

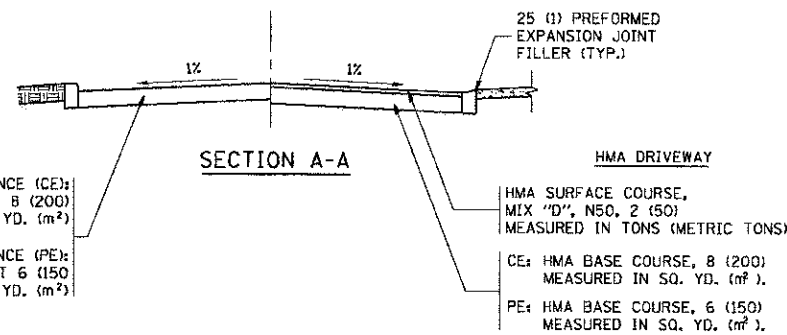
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	44
R-29			CONTRACT NO. 63806	
[ILLINOIS] FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B

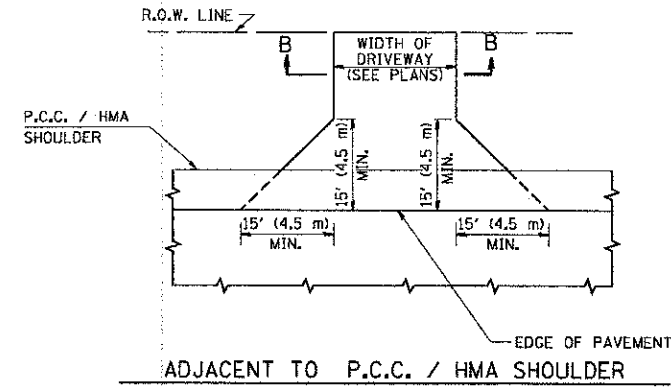


WITH CONCRETE CURB, TYPE B

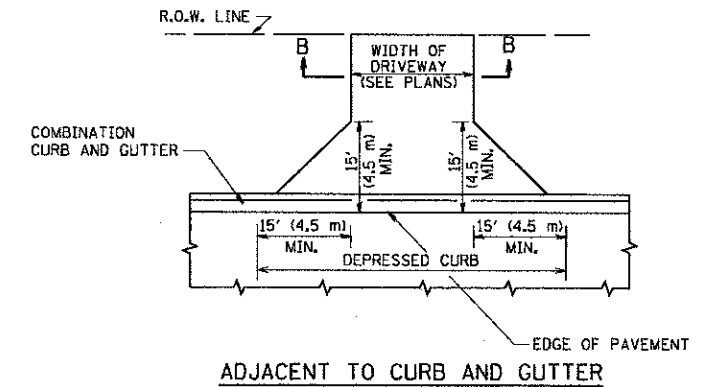


RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 P.C.C. DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE):
 P.C.C. DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

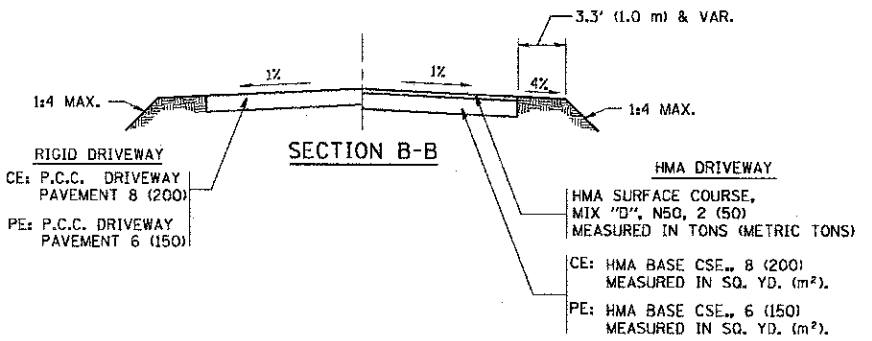
HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²).
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 AGGREGATE BASE CSE., TYPE B, 8 (200)
 MEASURED IN SQ. YD. (m²).

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.

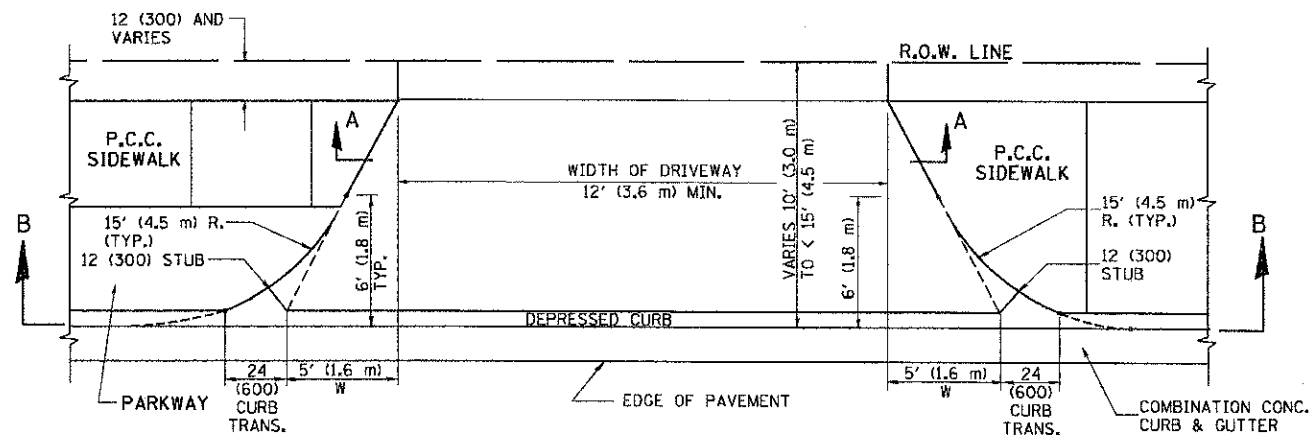
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	PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/5/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

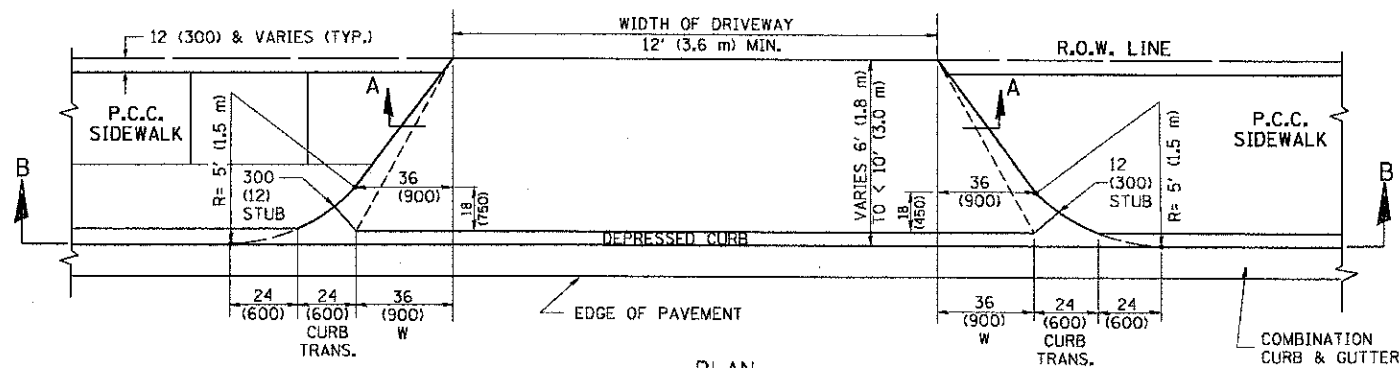
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
 AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

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

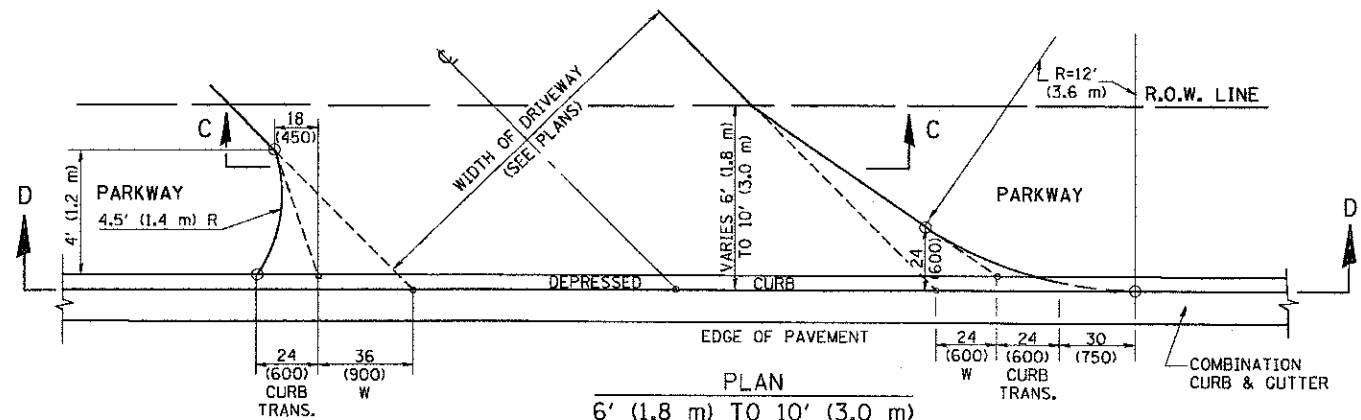
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	45
BD0156-07 (BD-01)			CONTRACT NO. 63806	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



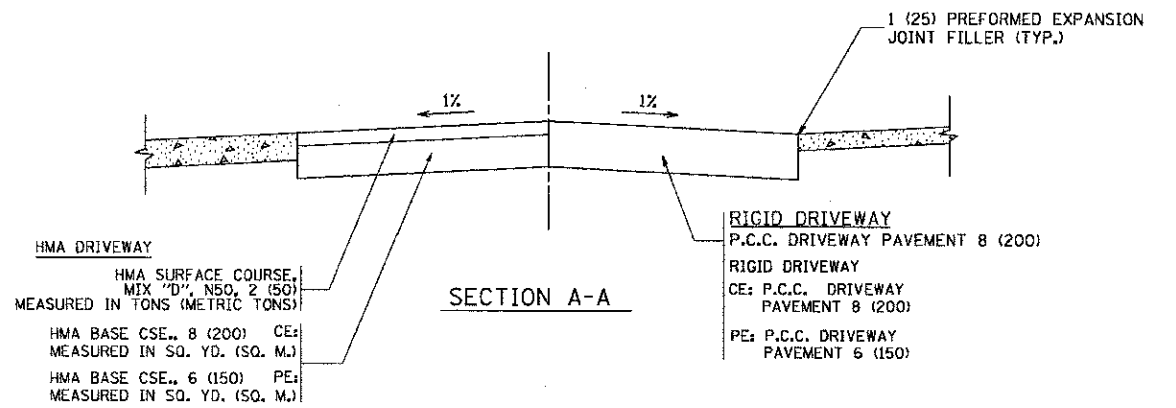
PLAN
10' (3.0 m) TO < 15' (4.5 m)



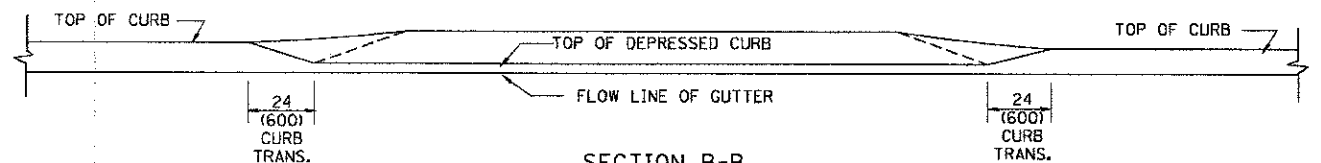
PLAN
6' (1.8 m) TO < 10' (3.0 m)



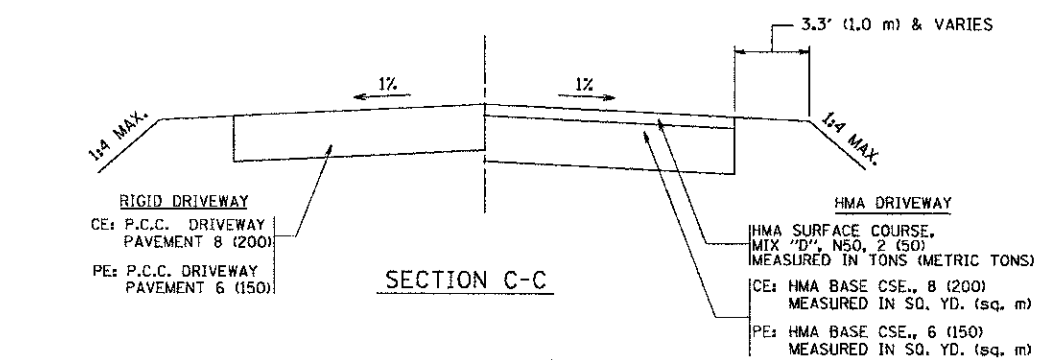
PLAN
6' (1.8 m) TO 10' (3.0 m)



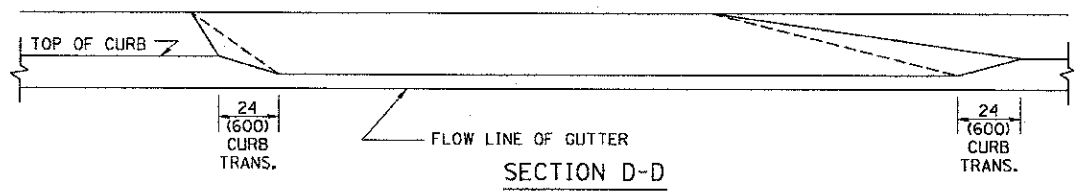
SECTION A-A



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).

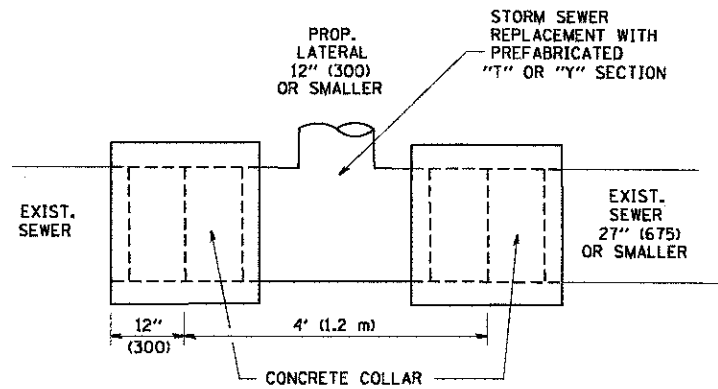
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = jayse	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
os\pe_work\p\d\dot\jayse\0188315\bd02.dgn		DRAWN -	REVISED - P. LOFLEUR 04-15-03
	PLOT SCALE = 50,0000 1/2" = 1'	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 10/28/2011	DATE - 11-06-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

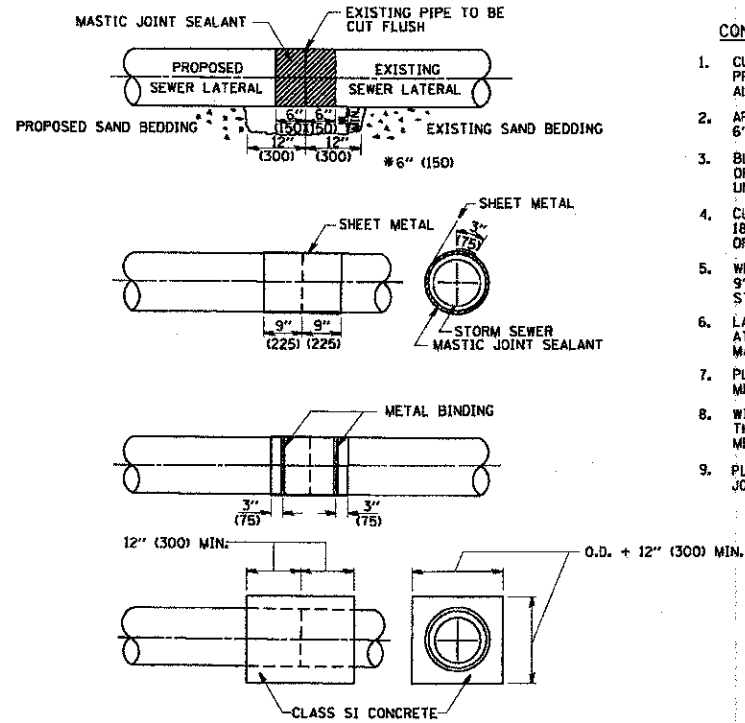
DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	46
BD400-02 (BD-02)			CONTRACT NO. 63806	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



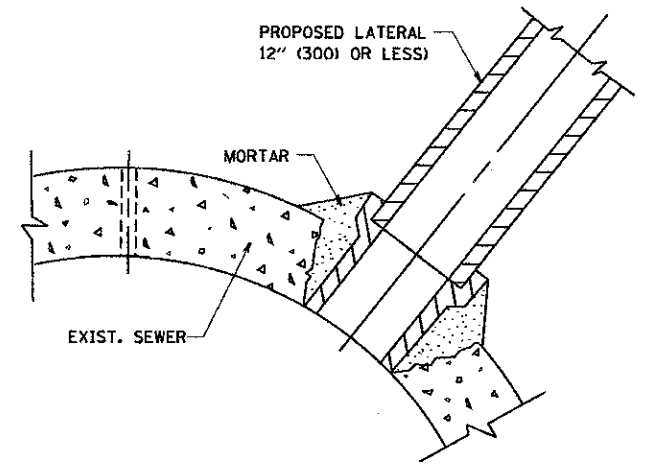
DETAIL "A"

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



DETAIL "B"

CLASS SI CONCRETE COLLAR



DETAIL "C"

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

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.

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

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

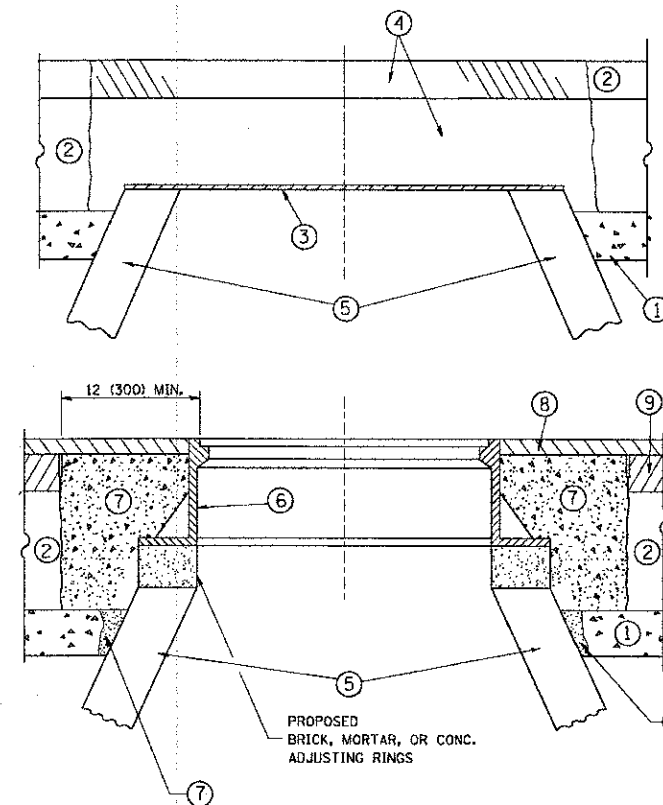
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

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:\distsd\22x34\bd87.dgn	USER NAME = geglioni	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. RTE. = 120	SECTION = 11-00115-00-RS	COUNTY = MCHENRY	TOTAL SHEETS = 62	SHEET NO. = 47	
	PLOT SCALE = 50.000' / 1" IN.	CHECKED -	REVISED - R. SHAH 09-09-94		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD500-01 (BD-7)		CONTRACT NO. 63806		
	PLOT DATE = 1/4/2000	DATE = 07-25-90	REVISED - R. SHAH 10-25-94									
					REVISED - R. SHAH 06-12-96	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



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 1½ (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 PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

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 PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

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:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

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.

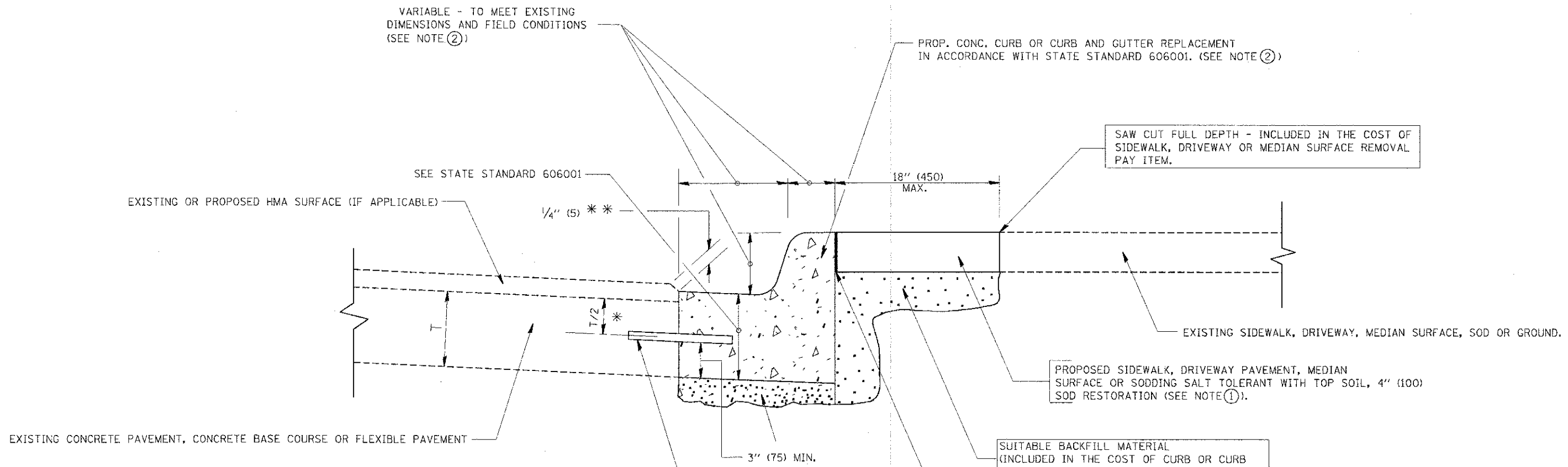
THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = baward1	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\p\pidot\baward1\d0100315\bd08.dgn		DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	120	11-00115-00-RS	MCHENRY	62	48
		CHECKED -	REVISED - R. BORO 03-09-11					BD600-03 (BD-8)		CONTRACT NO. 63806		
		DATE - 10-25-94	REVISED - R. BORO 12-06-11					<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

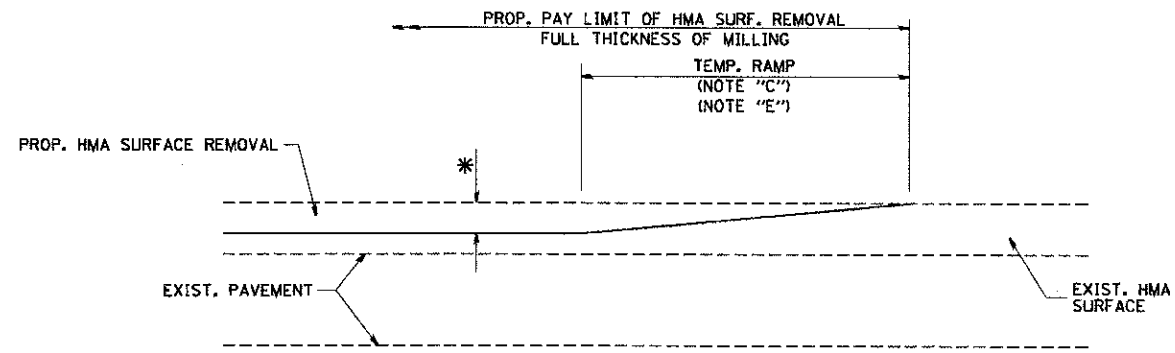
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

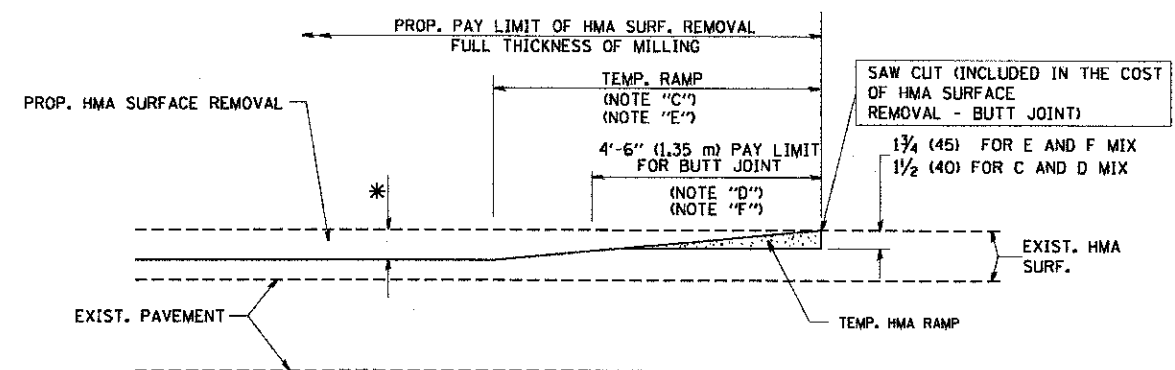
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME *	USER NAME = drivelasgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.	
c:\pwork\newdo\drivelasgn\01000115\hd4.dgn						120	11-00115-00-RS	MCHENRY	62	49
PLOT SCALE = 66.800' / IN.						REMOVED - M. GOMEZ 01-22-01	BD600-06 (BD-24)			
PLOT DATE = 12/15/2009						REVISED - R. BORO 12-15-09	CONTRACT NO. 63806			
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



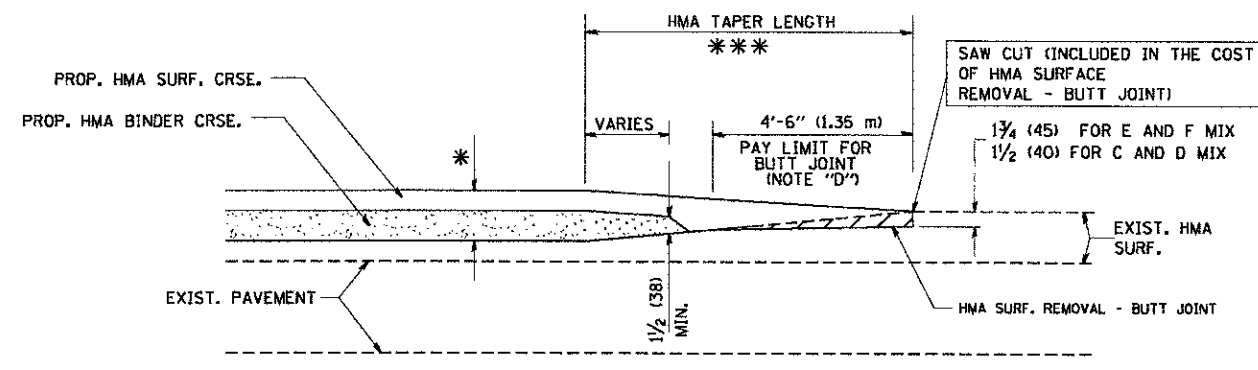
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

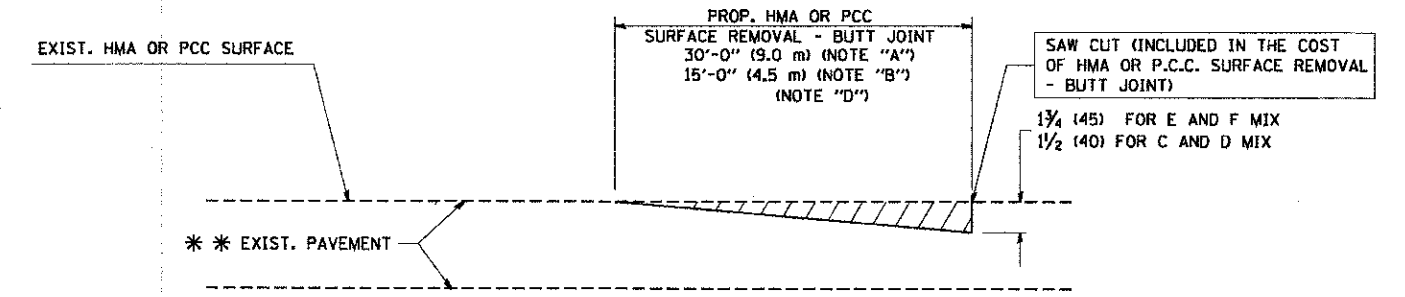


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

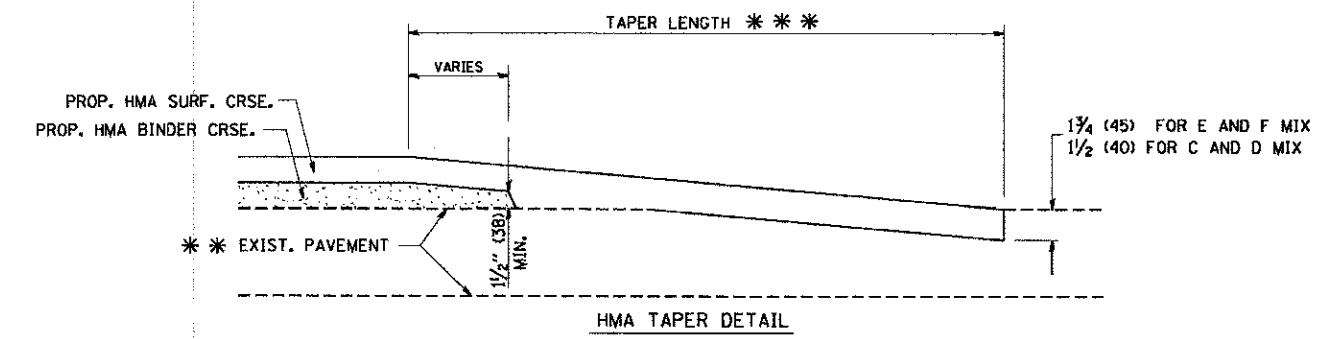
OPTION 2
TYPICAL TEMPORARY RAMP



BUTT JOINT AND HMA TAPER
TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

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

NOTES

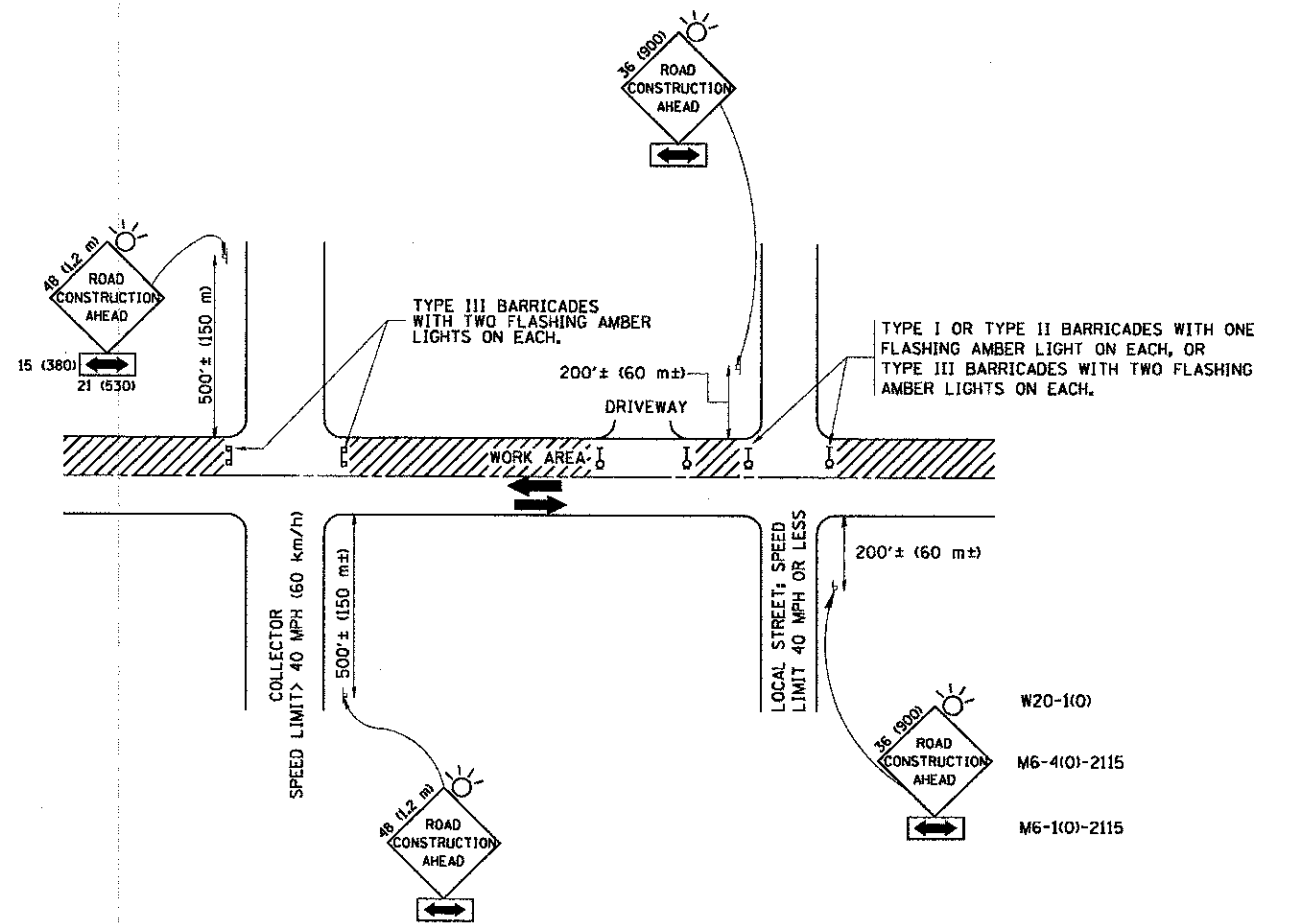
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = ggg10000t	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS		F.A. RTE. = 120	SECTION = 11-00115-00-RS	COUNTY = MCHENRY	TOTAL SHEETS = 62	SHEET NO. = 50	
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD400-05 BD32		CONTRACT NO. 63806		
	PLOT DATE = 1/1/2000	DATE = 06-13-90	REVISED - M. GOMEZ 04-06-01		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
			REVISED - R. BORO 01-01-07									



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. 70150L, 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.

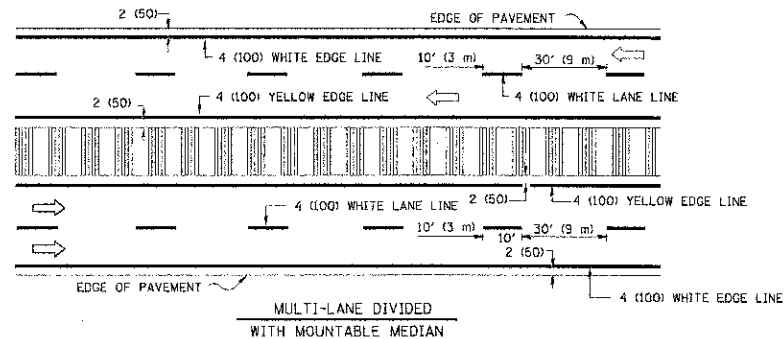
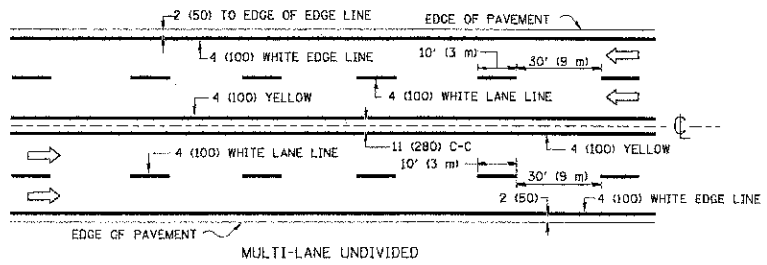
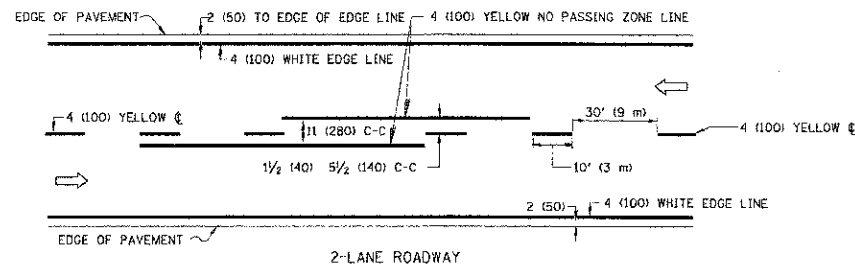
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = W:\data\22\34\to10.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		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 - 06-09	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

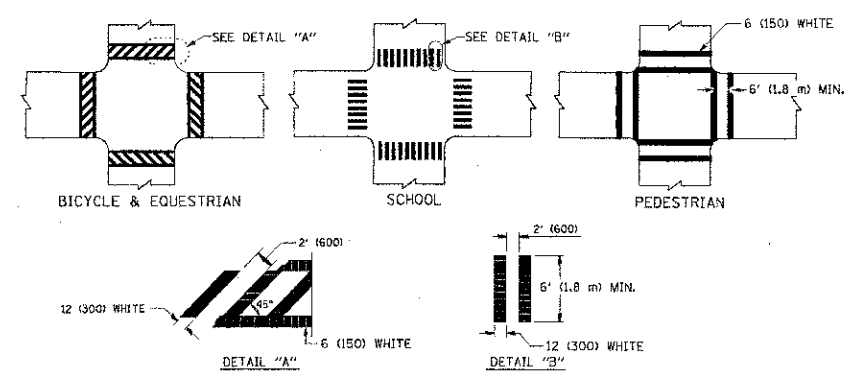
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-RS	MCHENRY	62	51
TC-10			CONTRACT NO. 63806	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

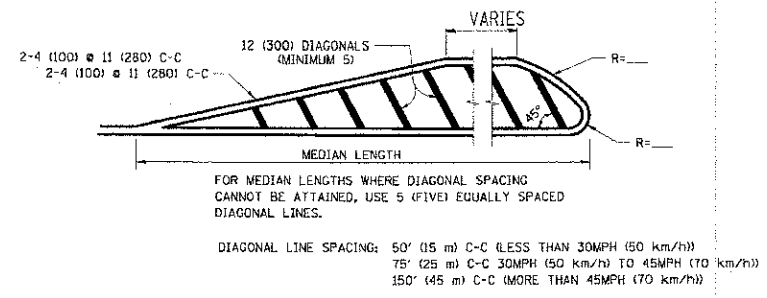
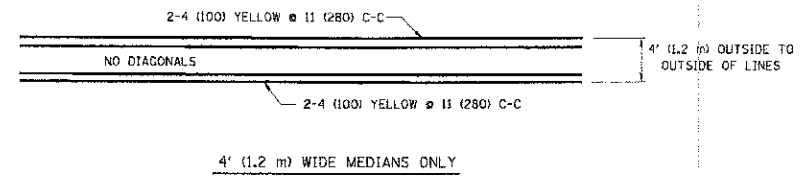


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

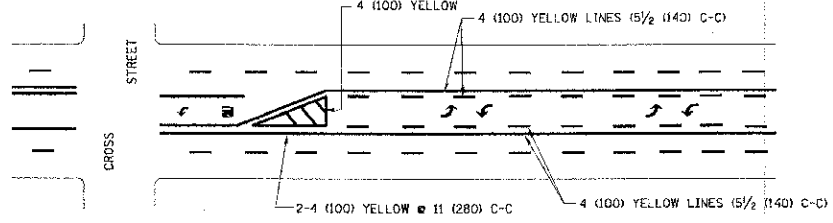
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



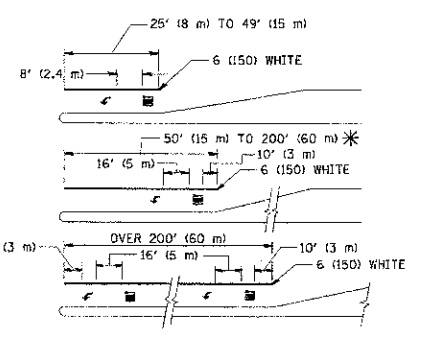
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



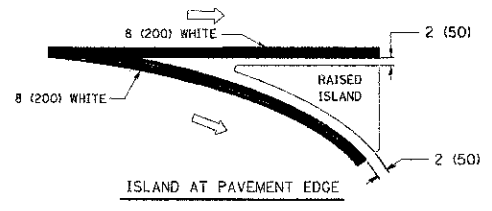
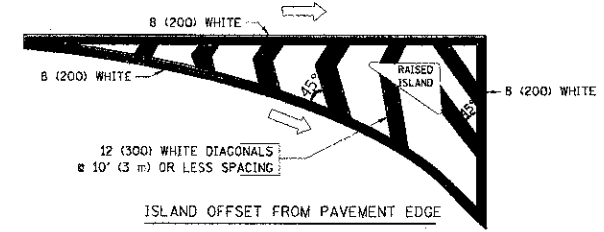
TYPICAL PAINTED MEDIAN MARKING



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

TYPICAL LEFT (OR RIGHT) TURN LANE

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	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C CMT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	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 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

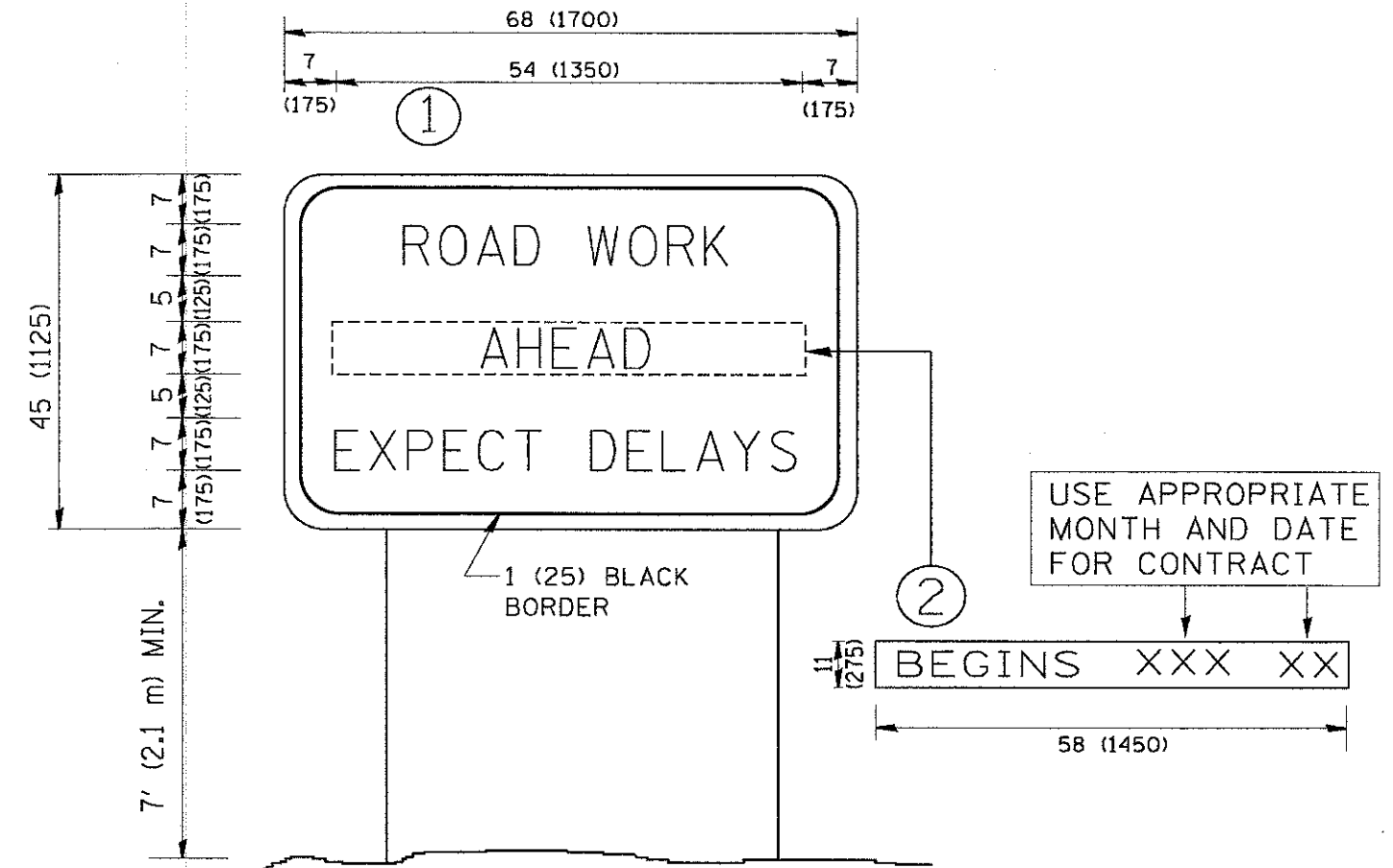
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = drsvksgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - C. JUCIUS 09-09-09
		CHECKED -	REVISED -
		DATE - 03-19-90	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		120	11-00115-00-RS	MCHENRY	62	52
SCALE: NONE		TC-13		CONTRACT NO. 63806		
SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



NOTES:

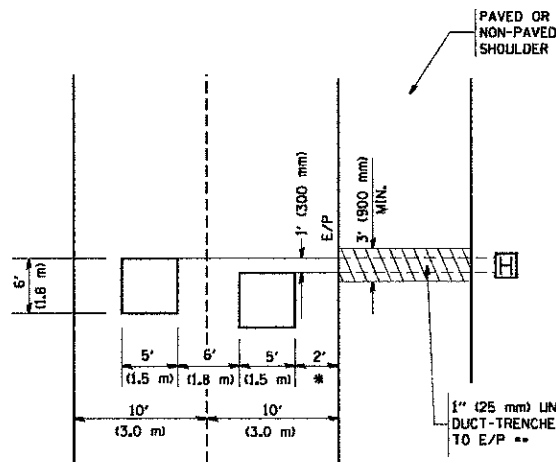
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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.

FILE NAME = W:\distrd\22x34\to22.dgn	USER NAME = geglencbt	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 53	
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22 FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07			CONTRACT NO. 63806					

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

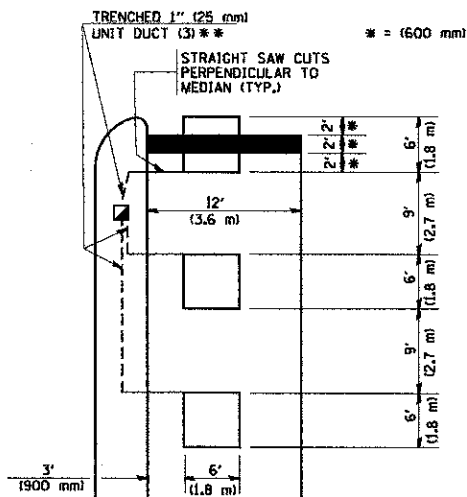


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

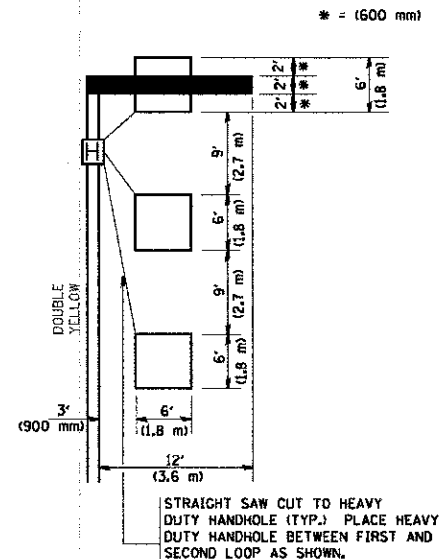
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

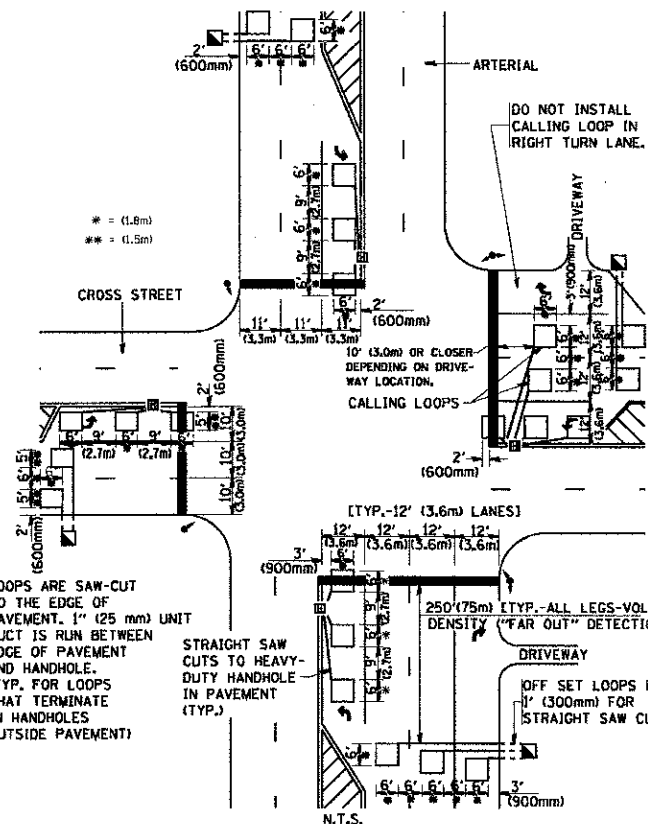
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



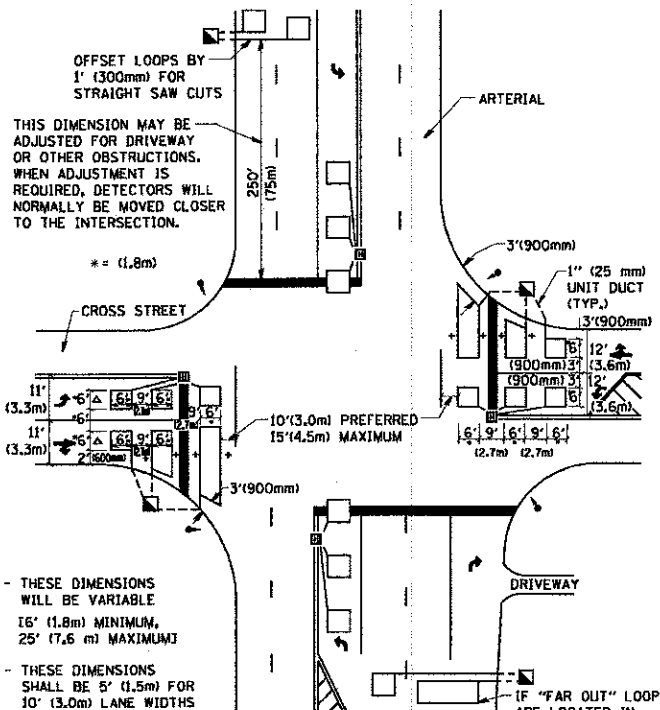
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1
N.T.S.**

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2
N.T.S.**

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

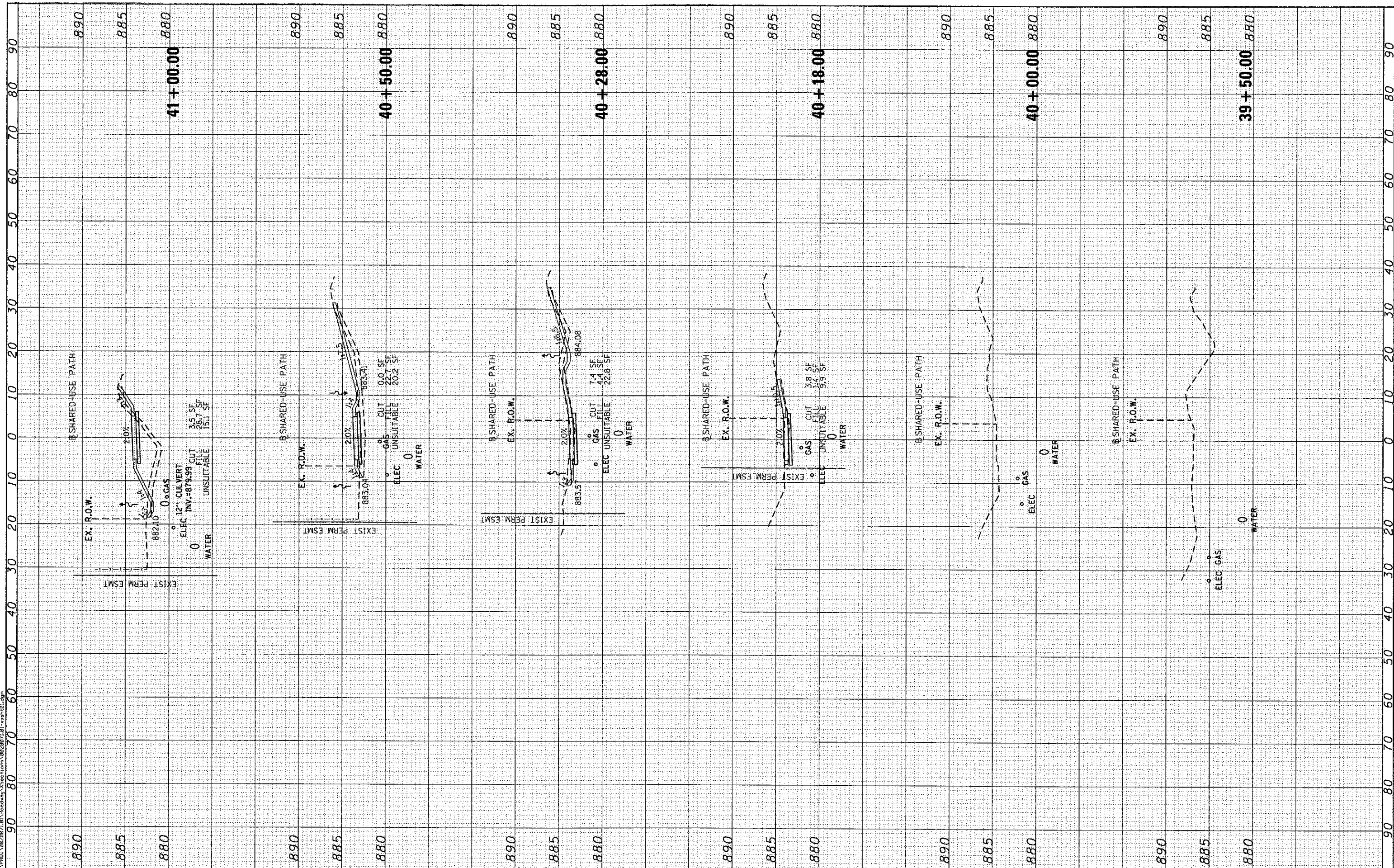
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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PLOT SCALE = 80,0000 / 1 IN.	CHECKED - R.K.F.	DATE -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 63806	
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -					FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/22/2013	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MCHENRY AVENUE
 CROSS SECTIONS**

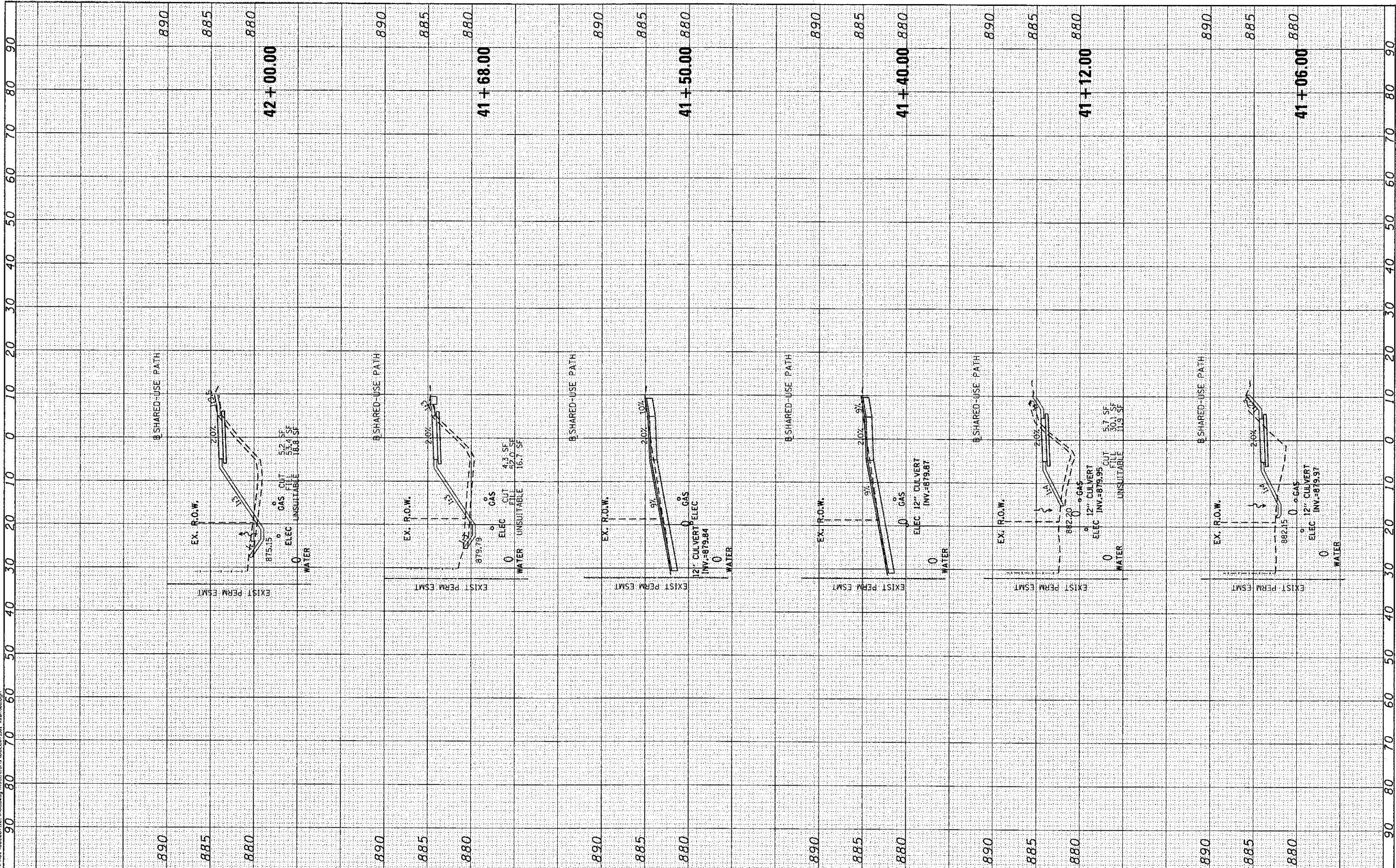
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F.A. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 55
CONTRACT NO. 63806				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
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TEMP. DATE		
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ORIGINAL SURVEY	BY	DATE
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PLOT DATE = 2/22/2013	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

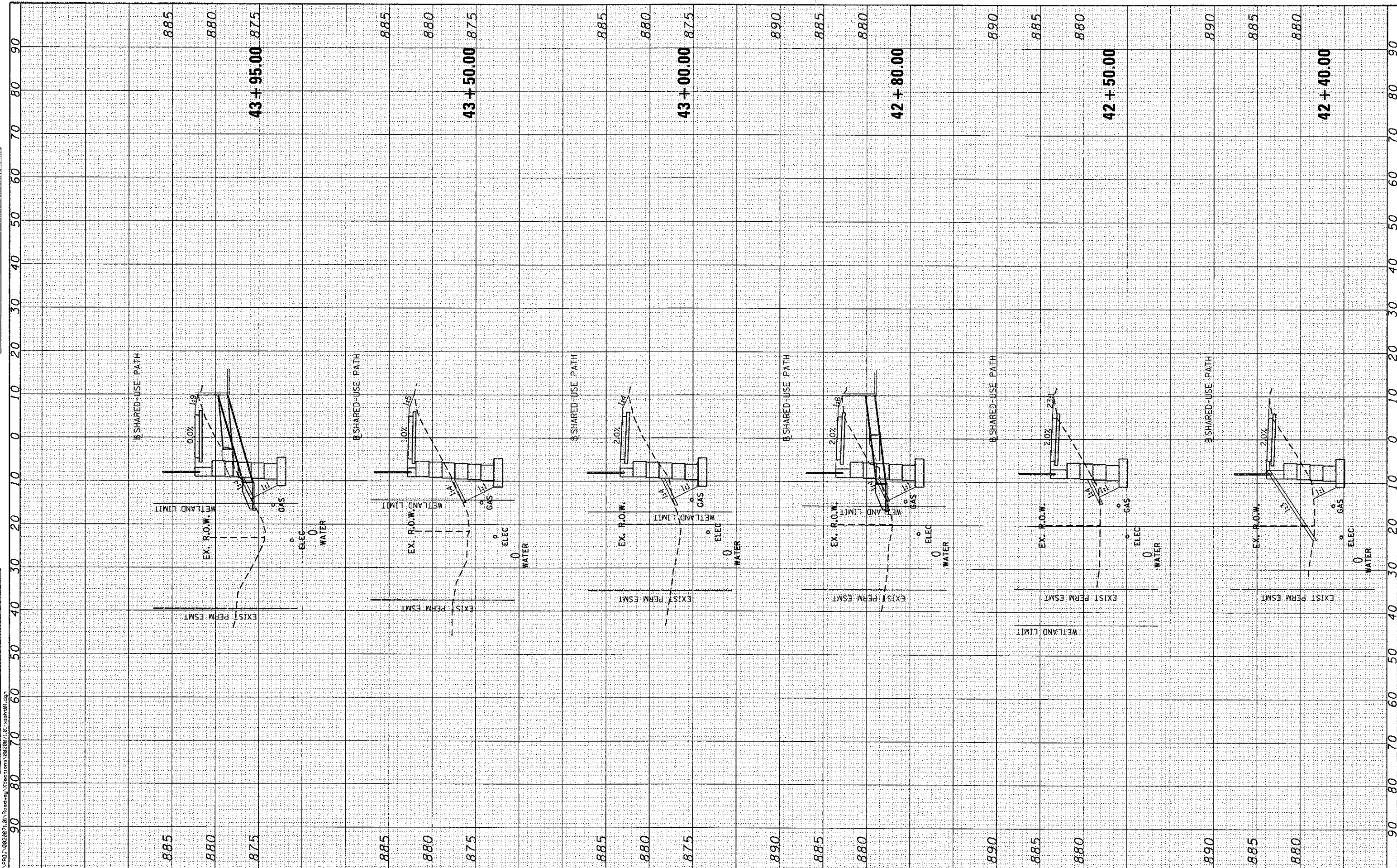
**MCHENRY AVENUE
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 41+06.00 TO STA. 42+00.00

F.A. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 56
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63806	

FINAL SURVEY	BY	DATE
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NOTE BOOK		
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
 CROSS SECTIONS

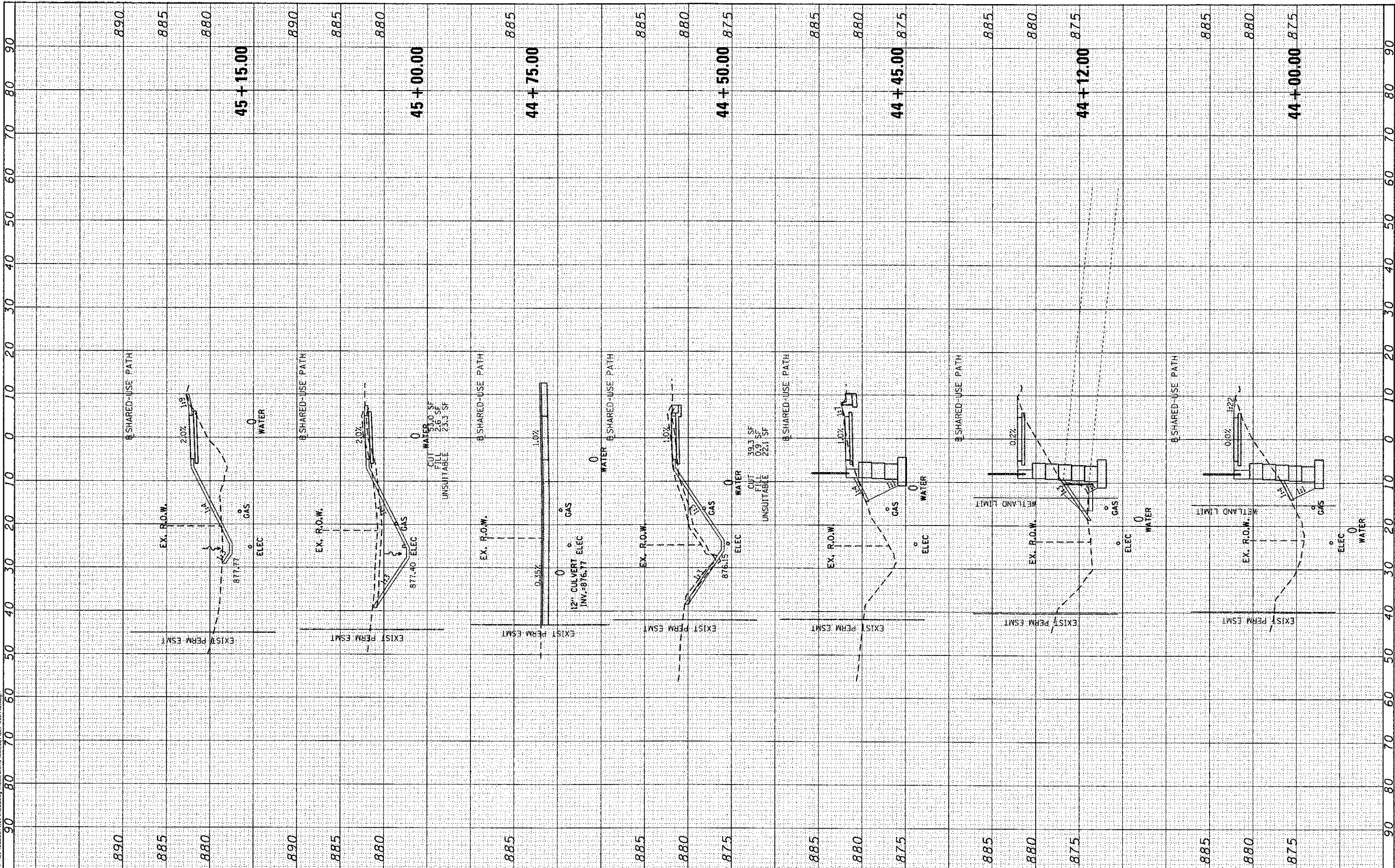
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
120	11-00115-00-R5	MCHENRY	62	57
CONTRACT NO. 63806				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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NOTE BOOK	
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
CROSS SECTIONS

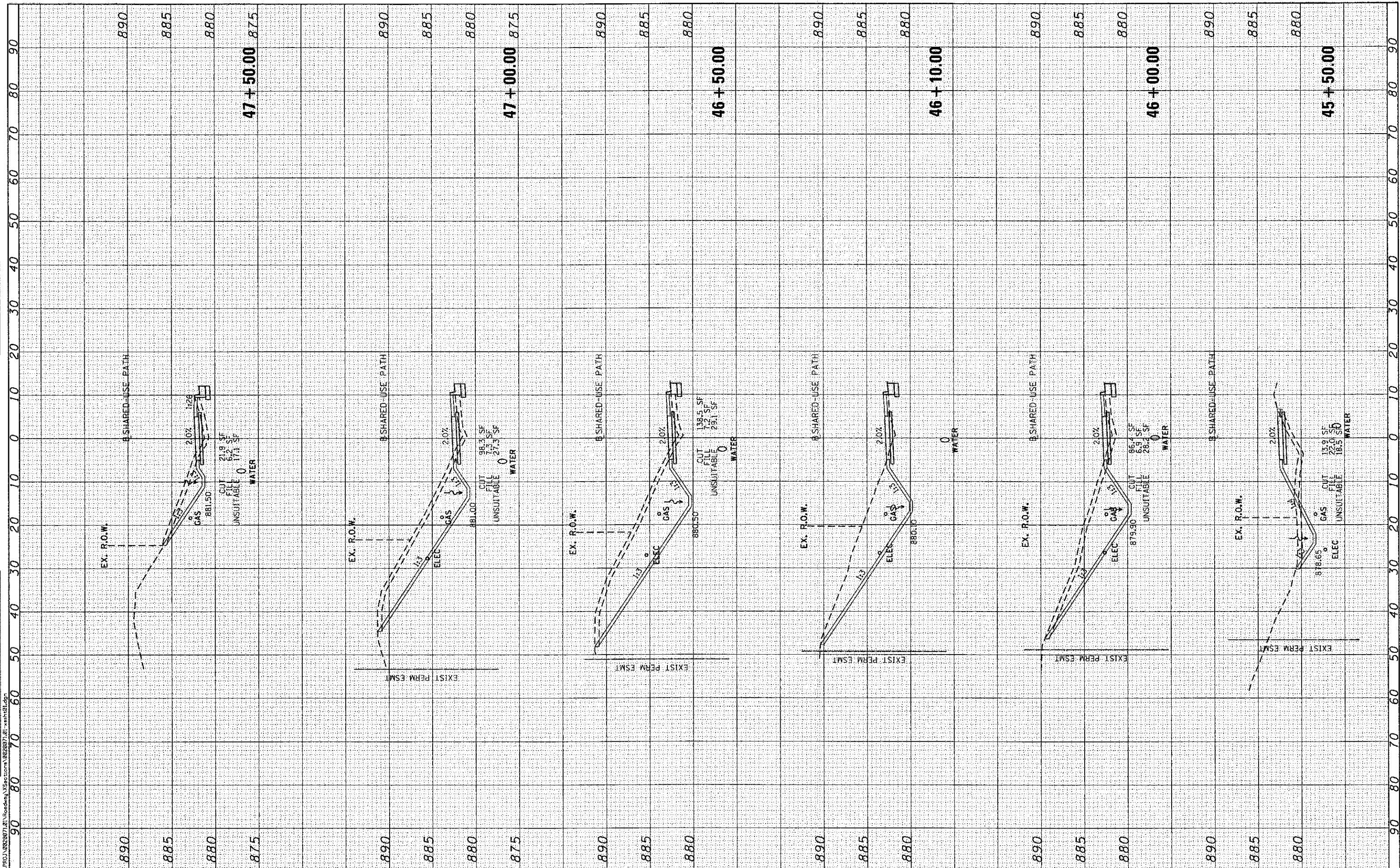
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F.A. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 58
CONTRACT NO. 63806				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
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PLLOT DATE = 2/22/2013	CHECKED - -	REVISED - -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MCHENRY AVENUE
 CROSS SECTIONS**

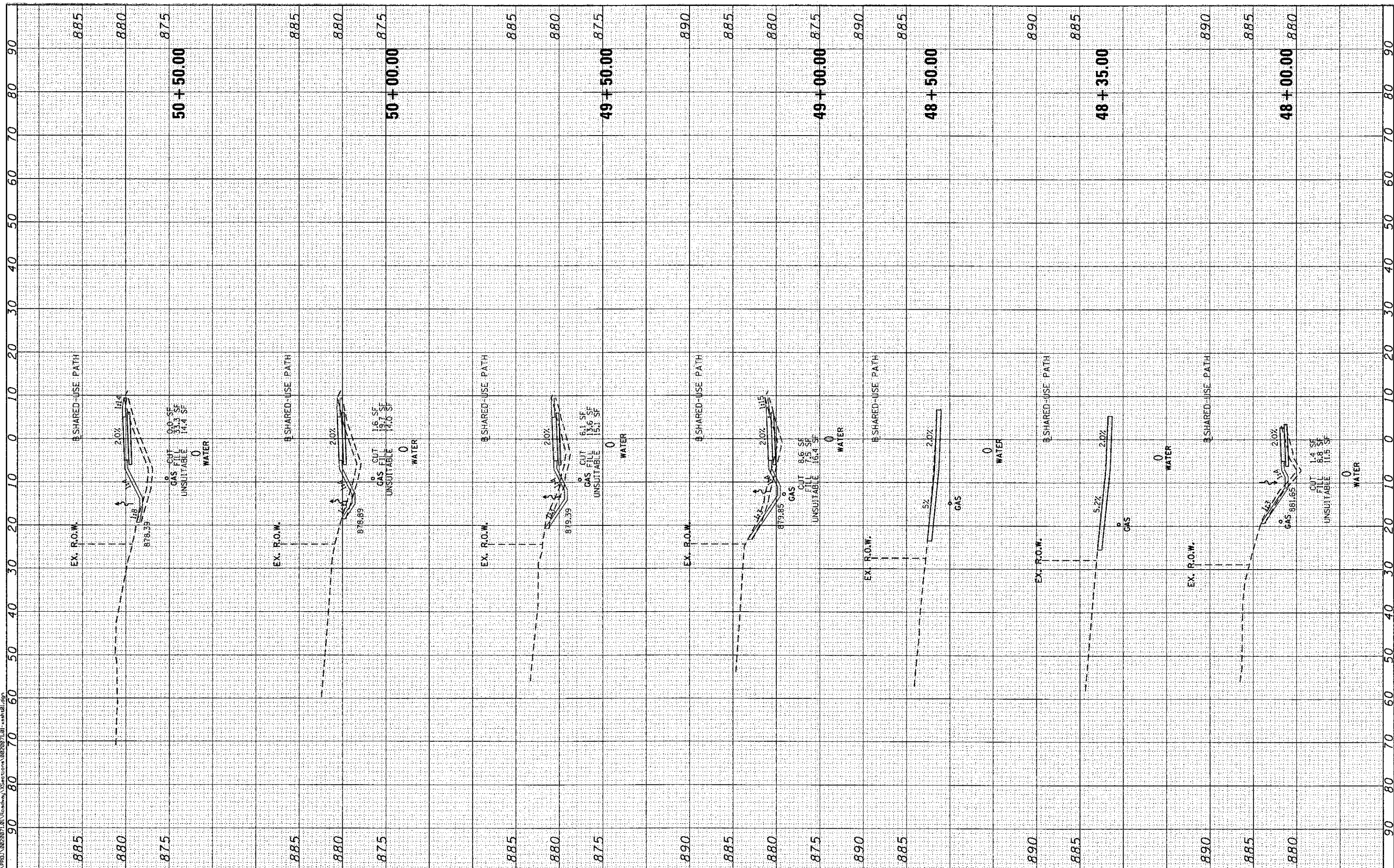
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F.A. RTE. 120	SECTION 11-00115-00-R5	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 59
CONTRACT NO. 63806				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

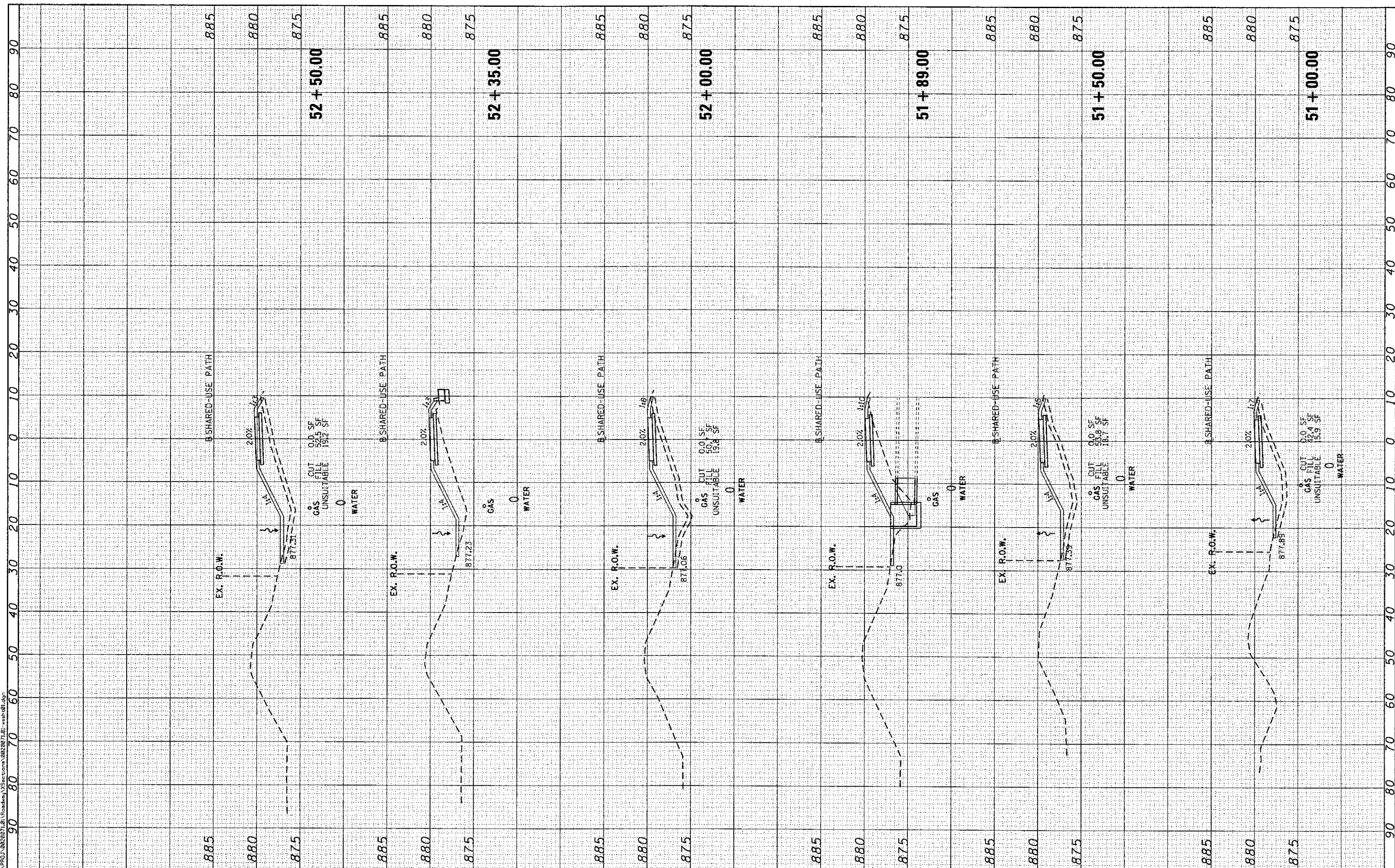
**MCHENRY AVENUE
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 48+00.00 TO STA. 50+50.00

F.A. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 60
CONTRACT NO. 63806				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MCHENRY AVENUE
 CROSS SECTIONS**

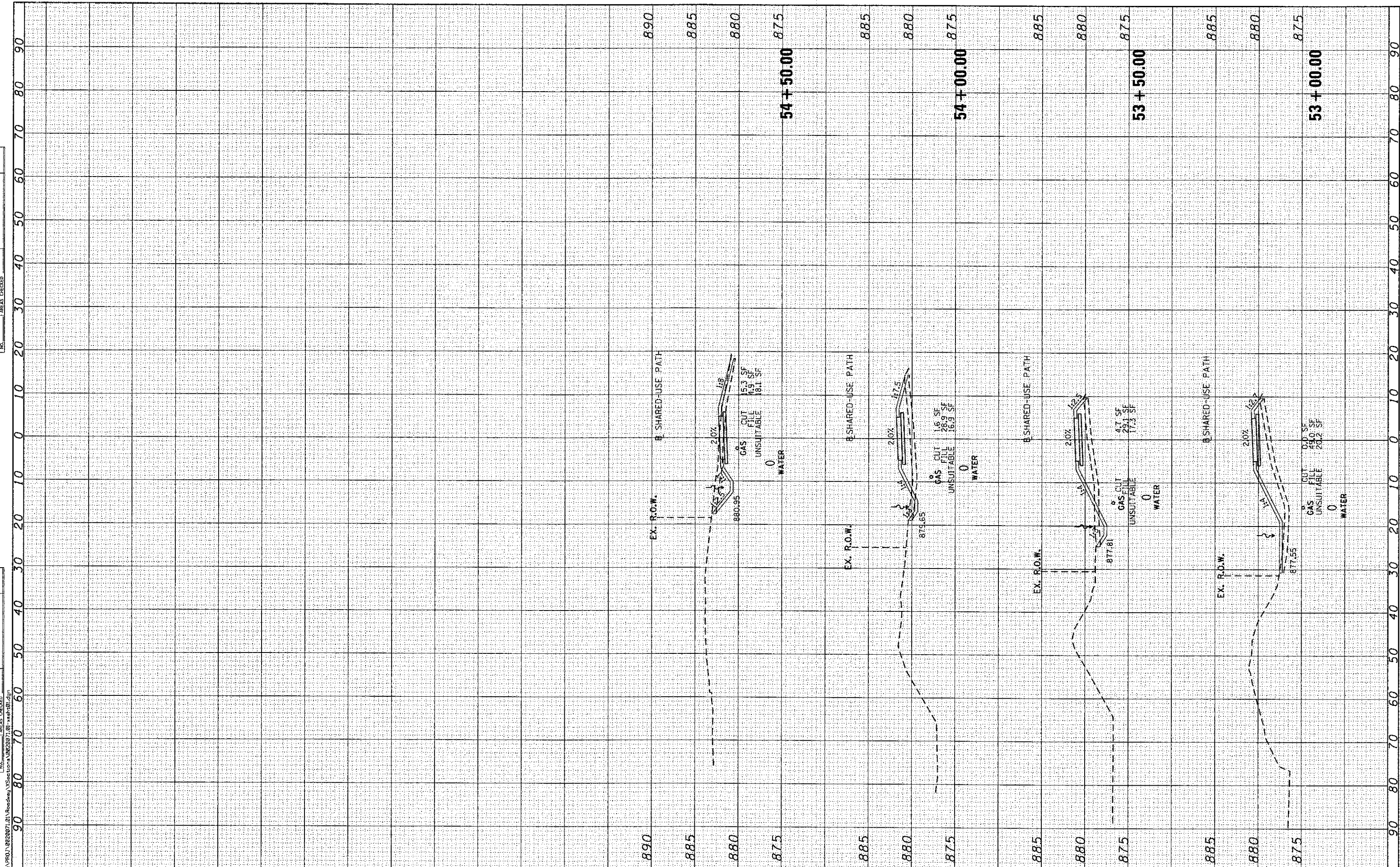
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CONTRACT NO. 63806

FINAL SURVEY NO.	BY	DATE
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ORIGINAL SURVEY NO.	BY	DATE
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PLOT DATE = 2/22/2013	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCHENRY AVENUE
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 53+00.00 TO STA. 54+50.00

F.A. RTE. 120	SECTION 11-00115-00-RS	COUNTY MCHENRY	TOTAL SHEETS 62	SHEET NO. 62
CONTRACT NO. 63806				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				